

Attention, astronomical year style is used: The year -11900 in astronomical counting style is the year 11901 BCE in historical counting style.

	-11900 Feb 01 j 20:00	0°♁	min. Earth dist.	-11895 Feb 19 j 02:41	4°♁45'41	4.26167 AU
evening set	-11900 Mar 16 j 07:51	9°♁14'00		-11895 Apr 13 j 02:27	30°♁	
			direct	-11895 Apr 21 j 00:01	29°♁54'06	
conjunction	-11900 Mar 29 j 20:46	12°♁16'57 -1°08'53		-11895 Apr 28 j 22:47	0°♁	
minimum elong	-11900 Mar 29 j 20:52	12°♁17'00 1°09'34	evening set	-11895 Aug 22 j 13:33	17°♁58'07	
max. Earth dist.	-11900 Mar 29 j 15:35	12°♁14'01 6.22299 AU				
morning rise	-11900 Apr 12 j 06:47	15°♁18'22	conjunction	-11895 Sep 04 j 00:30	20°♁49'40 1°33'25	
	-11900 Jun 27 j 22:06	0°♁	minimum elong	-11895 Sep 04 j 00:34	20°♁49'43 1°34'04	
retrograde	-11900 Aug 12 j 15:20	3°♁14'54	max. Earth dist.	-11895 Sep 03 j 20:16	20°♁47'14 6.22376 AU	
	-11900 Sep 27 j 21:57	30°♁	morning rise	-11895 Sep 16 j 13:14	23°♁42'18	
opposition	-11900 Oct 10 j 20:44	28°♁19'02 -1°05'49		-11895 Oct 14 j 23:22	0°♁	
min. Earth dist.	-11900 Oct 11 j 04:48	28°♁16'22 4.25968 AU	retrograde	-11894 Jan 22 j 20:01	12°♁31'05	
direct	-11900 Dec 11 j 03:37	23°♁15'01	opposition	-11894 Mar 25 j 09:17	7°♁32'48 1°51'53	
	-11899 Feb 19 j 20:00	0°♁	min. Earth dist.	-11894 Mar 25 j 07:19	7°♁33'26 4.18530 AU	
evening set	-11899 Apr 19 j 07:39	11°♁50'03	direct	-11894 May 24 j 10:49	2°♁39'53	
			evening set	-11894 Sep 24 j 02:54	20°♁57'51	
conjunction	-11899 May 02 j 13:35	14°♁47'31 -0°15'57				
minimum elong	-11899 May 02 j 13:36	14°♁47'32 0°16'27	conjunction	-11894 Oct 06 j 23:00	23°♁56'44 0°51'46	
max. Earth dist.	-11899 May 01 j 17:56	14°♁36'32 6.29140 AU	minimum elong	-11894 Oct 06 j 23:05	23°♁56'47 0°52'24	
	-11899 May 03 j 11:53	15°♁	max. Earth dist.	-11894 Oct 07 j 09:35	24°♁02'53 6.14708 AU	
morning rise	-11899 May 15 j 16:12	17°♁43'12	morning rise	-11894 Oct 19 j 22:27	26°♁57'28	
	-11899 Jul 16 j 06:57	0°♁		-11894 Nov 02 j 06:04	0°♁	
asc. node	-11899 Aug 20 j 15:26	4°♁15'32		-11893 Jan 27 j 22:59	15°♁	
retrograde	-11899 Sep 13 j 12:13	5°♁10'06	retrograde	-11893 Feb 27 j 11:47	16°♁25'25	
opposition	-11899 Nov 12 j 08:53	0°♁17'04 0°17'56		-11893 Mar 29 j 21:22	15°♁	
min. Earth dist.	-11899 Nov 13 j 00:56	0°♁11'52 4.31615 AU	opposition	-11893 Apr 29 j 13:18	11°♁23'31 0°33'03	
	-11899 Nov 14 j 13:30	30°♁	min. Earth dist.	-11893 Apr 29 j 00:37	11°♁27'42 4.11372 AU	
direct	-11898 Jan 13 j 13:59	25°♁14'38	direct	-11893 Jun 27 j 10:43	6°♁29'54	
	-11898 Mar 13 j 07:50	0°♁		-11893 Sep 11 j 23:35	15°♁	
evening set	-11898 May 21 j 18:04	13°♁29'24	desc. node	-11893 Sep 17 j 16:16	16°♁07'59	
			evening set	-11893 Oct 28 j 11:01	25°♁08'33	
conjunction	-11898 Jun 03 j 14:50	16°♁21'20 0°40'51				
minimum elong	-11898 Jun 03 j 14:46	16°♁21'18 0°40'41	conjunction	-11893 Nov 10 j 17:59	28°♁14'53 -0°08'32	
max. Earth dist.	-11898 Jun 02 j 13:58	16°♁07'27 6.33161 AU	minimum elong	-11893 Nov 10 j 17:59	28°♁14'53 0°08'08	
morning rise	-11898 Jun 16 j 08:16	19°♁11'40	behind sun begin	-11893 Nov 10 j 10:40	28°♁10'37	
	-11898 Aug 08 j 09:48	0°♁	behind sun end	-11893 Nov 11 j 01:18	28°♁19'08	
retrograde	-11898 Oct 15 j 06:28	6°♁31'06	max. Earth dist.	-11893 Nov 11 j 17:13	28°♁28'28 6.08769 AU	
opposition	-11898 Dec 14 j 22:37	1°♁39'18 1°35'01		-11893 Nov 18 j 05:43	0°♁	
min. Earth dist.	-11898 Dec 15 j 16:39	1°♁33'33 4.33783 AU	morning rise	-11893 Nov 24 j 04:37	1°♁23'11	
	-11898 Dec 28 j 04:24	30°♁	retrograde	-11892 Apr 03 j 16:36	21°♁14'52	
direct	-11897 Feb 15 j 10:07	26°♁39'42	opposition	-11892 Jun 02 j 21:27	16°♁10'27 -0°59'30	
	-11897 Apr 05 j 01:23	0°♁	min. Earth dist.	-11892 Jun 02 j 03:48	16°♁16'24 4.07187 AU	
evening set	-11897 Jun 22 j 03:39	14°♁41'39	direct	-11892 Jul 31 j 03:50	11°♁14'19	
				-11892 Dec 01 j 13:18	0°♁	
conjunction	-11897 Jul 04 j 15:34	17°♁29'39 1°25'15	evening set	-11892 Dec 02 j 15:06	0°♁14'58	
minimum elong	-11897 Jul 04 j 15:29	17°♁29'36 1°25'25				
max. Earth dist.	-11897 Jul 03 j 14:18	17°♁15'27 6.33197 AU	conjunction	-11892 Dec 16 j 05:42	3°♁25'24 -1°06'36	
morning rise	-11897 Jul 17 j 01:44	20°♁16'46	minimum elong	-11892 Dec 16 j 05:36	3°♁25'21 1°06'37	
	-11897 Sep 01 j 18:15	0°♁	max. Earth dist.	-11892 Dec 17 j 10:40	3°♁42'19 6.06681 AU	
retrograde	-11897 Nov 16 j 17:13	7°♁51'14	morning rise	-11892 Dec 29 j 22:49	6°♁37'09	
opposition	-11896 Jan 16 j 23:59	2°♁58'47 2°24'33	retrograde	-11891 May 09 j 11:58	26°♁26'34	
min. Earth dist.	-11896 Jan 17 j 16:14	2°♁53'38 4.31797 AU	opposition	-11891 Jul 07 j 21:48	21°♁21'51 -2°11'06	
	-11896 Feb 11 j 08:03	30°♁	min. Earth dist.	-11891 Jul 07 j 04:36	21°♁27'44 4.07544 AU	
direct	-11896 Mar 19 j 03:58	28°♁02'12	direct	-11891 Sep 04 j 04:07	16°♁22'24	
	-11896 Apr 24 j 15:50	0°♁		-11891 Dec 14 j 21:50	0°♁	
	-11896 Jul 17 j 15:59	15°♁	evening set	-11890 Jan 08 j 20:18	5°♁36'34	
evening set	-11896 Jul 22 j 03:59	16°♁00'39				
conjunction	-11896 Aug 03 j 12:01	18°♁48'15 1°44'59	conjunction	-11890 Jan 22 j 13:21	8°♁46'40 -1°40'27	
minimum elong	-11896 Aug 03 j 12:00	18°♁48'14 1°45'29	minimum elong	-11890 Jan 22 j 13:17	8°♁46'38 1°40'51	
max. Earth dist.	-11896 Aug 02 j 18:59	18°♁38'34 6.29223 AU	max. Earth dist.	-11890 Jan 23 j 11:13	8°♁59'20 6.09300 AU	
morning rise	-11896 Aug 15 j 19:52	21°♁35'53	morning rise	-11890 Feb 05 j 07:15	11°♁57'03	
	-11896 Sep 24 j 01:08	0°♁		-11890 Feb 18 j 17:09	15°♁	
retrograde	-11896 Dec 19 j 02:37	9°♁42'57	retrograde	-11890 May 16 j 06:23	0°♁	
opposition	-11895 Feb 18 j 19:01	4°♁48'08 2°31'56		-11890 Jun 13 j 06:25	1°♁16'57	
				-11890 Jul 11 j 00:36	30°♁	

Attention, astronomical year style is used: The year -11890 in astronomical counting style is the year 11891 BCE in historical counting style.

opposition	-11890 Aug 11 j 05:03	26° \mathbb{M} 14'13	-2°34'32	min. Earth dist.	-11884 Jan 22 j 07:00	7° \mathbb{B} 24'45	4.31166 AU
min. Earth dist.	-11890 Aug 10 j 18:44	26° \mathbb{M} 17'45	4.12251 AU	direct	-11884 Mar 23 j 16:51	2° \mathbb{B} 33'19	
direct	-11890 Oct 09 j 06:38	21° \mathbb{M} 11'40			-11884 Jul 01 j 07:10	15° \mathbb{B}	
	-11890 Dec 27 j 23:23	0° \mathbb{A}		evening set	-11884 Jul 26 j 12:36	20° \mathbb{B} 32'13	
evening set	-11889 Feb 14 j 17:50	10° \mathbb{A} 23'12					
				conjunction	-11884 Aug 07 j 20:29	23° \mathbb{B} 20'07	1°45'18
conjunction	-11889 Feb 28 j 10:01	13° \mathbb{A} 30'07	-1°37'56	minimum elong	-11884 Aug 07 j 20:29	23° \mathbb{B} 20'07	1°45'50
minimum elong	-11889 Feb 28 j 10:04	13° \mathbb{A} 30'09	1°38'34	max. Earth dist.	-11884 Aug 07 j 04:07	23° \mathbb{B} 10'48	6.28316 AU
max. Earth dist.	-11889 Feb 28 j 19:12	13° \mathbb{A} 35'22	6.15641 AU	morning rise	-11884 Aug 20 j 04:38	26° \mathbb{B} 08'14	
morning rise	-11889 Mar 14 j 00:39	16° \mathbb{A} 36'10			-11884 Sep 06 j 13:17	0° \mathbb{I}	
	-11889 May 19 j 04:42	0° \mathbb{B}		retrograde	-11884 Dec 23 j 22:32	14° \mathbb{I} 21'07	
retrograde	-11889 Jul 16 j 19:04	5° \mathbb{B} 10'29		opposition	-11883 Feb 23 j 14:08	9° \mathbb{I} 25'53	2°29'09
opposition	-11889 Sep 13 j 16:16	0° \mathbb{B} 11'19	-2°04'03	min. Earth dist.	-11883 Feb 23 j 21:28	9° \mathbb{I} 23'33	4.25034 AU
min. Earth dist.	-11889 Sep 13 j 15:53	0° \mathbb{B} 11'27	4.19577 AU	direct	-11883 Apr 25 j 16:26	4° \mathbb{I} 32'04	
	-11889 Sep 15 j 01:49	30° \mathbb{R} \mathbb{A}		evening set	-11883 Aug 27 j 01:15	22° \mathbb{I} 38'08	
direct	-11889 Nov 12 j 22:24	25° \mathbb{A} 07'11					
	-11888 Jan 10 j 05:25	0° \mathbb{B}		conjunction	-11883 Sep 08 j 13:17	25° \mathbb{I} 30'40	1°29'13
evening set	-11888 Mar 21 j 05:29	14° \mathbb{B} 01'18		minimum elong	-11883 Sep 08 j 13:21	25° \mathbb{I} 30'43	1°29'54
				max. Earth dist.	-11883 Sep 08 j 11:01	25° \mathbb{I} 29'22	6.21133 AU
conjunction	-11888 Apr 03 j 17:31	17° \mathbb{B} 03'28	-1°02'18	morning rise	-11883 Sep 21 j 03:17	28° \mathbb{I} 24'23	
minimum elong	-11888 Apr 03 j 17:37	17° \mathbb{B} 03'32	1°02'57		-11883 Sep 28 j 03:11	0° \mathbb{B}	
max. Earth dist.	-11888 Apr 03 j 09:19	16° \mathbb{B} 58'51	6.23411 AU	retrograde	-11882 Jan 27 j 18:21	17° \mathbb{B} 19'39	
morning rise	-11888 Apr 17 j 02:47	20° \mathbb{B} 04'06		opposition	-11882 Mar 30 j 07:19	12° \mathbb{B} 20'54	1°42'44
	-11888 Jun 03 j 13:08	0° \mathbb{A}		min. Earth dist.	-11882 Mar 30 j 03:09	12° \mathbb{B} 22'14	4.17276 AU
retrograde	-11888 Aug 17 j 03:50	7° \mathbb{A} 54'56		direct	-11882 May 29 j 03:42	7° \mathbb{B} 28'04	
opposition	-11888 Oct 15 j 11:03	2° \mathbb{A} 59'26	-0°54'31	evening set	-11882 Sep 28 j 20:27	25° \mathbb{B} 49'16	
min. Earth dist.	-11888 Oct 15 j 20:33	2° \mathbb{A} 56'17	4.27018 AU				
	-11888 Nov 08 j 17:51	30° \mathbb{R} \mathbb{B}		conjunction	-11882 Oct 11 j 18:06	28° \mathbb{B} 49'21	0°44'00
direct	-11888 Dec 15 j 22:08	27° \mathbb{B} 55'26		minimum elong	-11882 Oct 11 j 18:11	28° \mathbb{B} 49'23	0°44'36
	-11887 Jan 22 j 10:54	0° \mathbb{A}		max. Earth dist.	-11882 Oct 12 j 06:47	28° \mathbb{B} 56'44	6.13575 AU
	-11887 Apr 17 j 09:47	15° \mathbb{A}			-11882 Oct 16 j 19:22	0° \mathbb{I}	
evening set	-11887 Apr 23 j 23:06	16° \mathbb{A} 26'47		morning rise	-11882 Oct 24 j 19:12	1° \mathbb{I} 51'20	
max. Earth dist.	-11887 May 06 j 08:16	19° \mathbb{A} 12'24	6.30046 AU		-11882 Dec 26 j 21:10	15° \mathbb{I}	
				retrograde	-11881 Mar 04 j 15:10	21° \mathbb{I} 24'29	
conjunction	-11887 May 07 j 03:57	19° \mathbb{A} 23'24	-0°07'48	opposition	-11881 May 04 j 13:25	16° \mathbb{I} 22'10	0°20'03
minimum elong	-11887 May 07 j 03:57	19° \mathbb{A} 23'24	0°08'17	min. Earth dist.	-11881 May 03 j 23:48	16° \mathbb{I} 26'41	4.10464 AU
behind sun begin	-11887 May 06 j 20:48	19° \mathbb{A} 19'25			-11881 May 15 j 00:58	15° \mathbb{R} \mathbb{I}	
behind sun end	-11887 May 07 j 11:06	19° \mathbb{A} 27'23		direct	-11881 Jul 02 j 08:34	11° \mathbb{I} 28'21	
morning rise	-11887 May 20 j 05:09	22° \mathbb{A} 18'10		desc. node	-11881 Jul 28 j 09:37	12° \mathbb{I} 35'59	
	-11887 Jun 25 j 11:17	0° \mathbb{H}			-11881 Aug 18 j 12:02	15° \mathbb{I}	
asc. node	-11887 Jun 29 j 20:09	0° \mathbb{H} 51'03			-11881 Nov 01 j 17:27	0° \mathbb{I}	
retrograde	-11887 Sep 17 j 22:22	9° \mathbb{H} 42'00		evening set	-11881 Nov 02 j 11:31	0° \mathbb{I} 10'30	
opposition	-11887 Nov 16 j 22:02	4° \mathbb{H} 49'14	0°29'40				
min. Earth dist.	-11887 Nov 17 j 14:25	4° \mathbb{H} 43'56	4.32286 AU	conjunction	-11881 Nov 15 j 19:54	3° \mathbb{I} 17'42	-0°17'23
	-11886 Jan 06 j 07:21	30° \mathbb{R} \mathbb{A}		minimum elong	-11881 Nov 15 j 19:52	3° \mathbb{I} 17'40	0°17'03
direct	-11886 Jan 18 j 04:40	29° \mathbb{A} 47'07		max. Earth dist.	-11881 Nov 16 j 21:47	3° \mathbb{I} 32'50	6.08214 AU
	-11886 Jan 30 j 03:31	0° \mathbb{H}		morning rise	-11881 Nov 29 j 07:45	6° \mathbb{I} 26'47	
evening set	-11886 May 26 j 04:54	17° \mathbb{H} 59'05		retrograde	-11880 Apr 08 j 19:04	26° \mathbb{I} 19'37	
max. Earth dist.	-11886 Jun 06 j 21:17	20° \mathbb{H} 35'15	6.33520 AU	opposition	-11880 Jun 07 j 21:07	21° \mathbb{I} 15'05	-1°11'37
				min. Earth dist.	-11880 Jun 07 j 02:27	21° \mathbb{I} 21'24	4.07100 AU
conjunction	-11886 Jun 08 j 00:10	20° \mathbb{H} 50'16	0°48'08	direct	-11880 Aug 05 j 01:48	16° \mathbb{I} 18'39	
minimum elong	-11886 Jun 08 j 00:06	20° \mathbb{H} 50'13	0°48'00		-11880 Nov 14 j 06:41	0° \mathbb{B}	
morning rise	-11886 Jun 20 j 16:34	23° \mathbb{H} 39'58		evening set	-11880 Dec 07 j 20:33	5° \mathbb{B} 21'12	
	-11886 Jul 20 j 04:43	0° \mathbb{Y}					
retrograde	-11886 Oct 19 j 18:58	10° \mathbb{Y} 59'49		conjunction	-11880 Dec 21 j 11:34	8° \mathbb{B} 31'38	-1°13'13
opposition	-11886 Dec 19 j 12:37	6° \mathbb{Y} 08'00	1°43'59	minimum elong	-11880 Dec 21 j 11:27	8° \mathbb{B} 31'35	1°13'17
min. Earth dist.	-11886 Dec 20 j 07:33	6° \mathbb{Y} 01'59	4.33813 AU	max. Earth dist.	-11880 Dec 22 j 15:51	8° \mathbb{B} 48'09	6.07061 AU
direct	-11885 Feb 20 j 00:32	1° \mathbb{Y} 08'44		morning rise	-11879 Jan 04 j 05:08	11° \mathbb{B} 43'18	
evening set	-11885 Jun 26 j 11:44	19° \mathbb{Y} 09'29			-11879 Apr 14 j 01:29	0° \mathbb{M}	
				retrograde	-11879 May 14 j 09:36	1° \mathbb{M} 28'44	
conjunction	-11885 Jul 08 j 22:55	21° \mathbb{Y} 57'12	1°29'42		-11879 Jun 13 j 10:28	30° \mathbb{R} \mathbb{B}	
minimum elong	-11885 Jul 08 j 22:50	21° \mathbb{Y} 57'09	1°29'54	opposition	-11879 Jul 12 j 18:35	26° \mathbb{B} 24'07	-2°17'32
max. Earth dist.	-11885 Jul 07 j 23:13	21° \mathbb{Y} 43'52	6.32878 AU	min. Earth dist.	-11879 Jul 12 j 01:33	26° \mathbb{B} 29'58	4.08379 AU
morning rise	-11885 Jul 21 j 08:15	24° \mathbb{Y} 44'06		direct	-11879 Sep 09 j 03:28	21° \mathbb{B} 24'13	
	-11885 Aug 14 j 12:09	0° \mathbb{B}			-11879 Nov 25 j 16:30	0° \mathbb{M}	
retrograde	-11885 Nov 21 j 06:36	12° \mathbb{B} 22'10		evening set	-11878 Jan 14 j 00:54	10° \mathbb{M} 37'14	
opposition	-11884 Jan 21 j 16:03	7° \mathbb{B} 29'29	2°28'20				

Attention, astronomical year style is used: The year -11878 in astronomical counting style is the year 11879 BCE in historical counting style.

conjunction	-11878 Jan 27 j 18:04	13° ℓ 46'46	-1°42'18	morning rise	-11873 Jul 25 j 13:15	29° γ 07'40	
minimum elong	-11878 Jan 27 j 18:01	13° ℓ 46'45	1°42'45		-11873 Jul 29 j 10:56	0° ♄	
max. Earth dist.	-11878 Jan 28 j 16:13	13° ℓ 59'34	6.10512 AU		-11873 Oct 21 j 15:39	15° ♄	
	-11878 Feb 02 j 00:59	15° ℓ		retrograde	-11873 Nov 25 j 21:43	16° ♄ 51'46	
morning rise	-11878 Feb 10 j 11:25	16° ℓ 56'22			-11873 Dec 31 j 11:47	15° ♄	
	-11878 Apr 14 j 11:23	0° ♂		opposition	-11872 Jan 26 j 07:23	11° ♄ 58'48	2°31'10
retrograde	-11878 Jun 17 j 23:55	6° ♂ 08'28		min. Earth dist.	-11872 Jan 26 j 21:55	11° ♄ 54'12	4.29873 AU
opposition	-11878 Aug 15 j 21:27	1° ♂ 06'12	-2°33'12	direct	-11872 Mar 28 j 05:18	7° ♄ 03'00	
min. Earth dist.	-11878 Aug 15 j 12:32	1° ♂ 09'14	4.13714 AU		-11872 Jun 12 j 23:01	15° ♄	
	-11878 Aug 24 j 00:43	30° ♄		evening set	-11872 Jul 30 j 20:58	25° ♄ 04'37	
direct	-11878 Oct 14 j 03:14	26° ℓ 03'23					
	-11878 Dec 04 j 05:25	0° ♂		conjunction	-11872 Aug 12 j 05:15	27° ♄ 53'14	1°44'54
evening set	-11877 Feb 19 j 17:00	15° ♂ 11'00		minimum elong	-11872 Aug 12 j 05:16	27° ♄ 53'14	1°45'27
				max. Earth dist.	-11872 Aug 11 j 15:42	27° ♄ 45'30	6.26825 AU
conjunction	-11877 Mar 05 j 08:35	18° ♂ 17'02	-1°34'42		-11872 Aug 21 j 11:36	0° ♄	
minimum elong	-11877 Mar 05 j 08:39	18° ♂ 17'05	1°35'22	morning rise	-11872 Aug 24 j 13:48	0° ♄ 42'08	
max. Earth dist.	-11877 Mar 05 j 14:13	18° ♂ 20'15	6.17208 AU	retrograde	-11872 Dec 28 j 18:18	19° ♄ 02'45	
morning rise	-11877 Mar 18 j 22:38	21° ♂ 22'09		opposition	-11871 Feb 28 j 10:19	14° ♄ 07'05	2°25'19
	-11877 Apr 28 j 00:56	0° ♄		min. Earth dist.	-11871 Feb 28 j 15:29	14° ♄ 05'26	4.23465 AU
retrograde	-11877 Jul 21 j 05:03	9° ♄ 48'13		direct	-11871 Apr 30 j 07:49	9° ♄ 13'34	
opposition	-11877 Sep 18 j 04:07	4° ♄ 49'35	-1°56'17	evening set	-11871 Aug 31 j 14:33	27° ♄ 22'58	
min. Earth dist.	-11877 Sep 18 j 05:17	4° ♄ 49'11	4.21094 AU		-11871 Sep 11 j 22:53	0° ♄	
	-11877 Nov 05 j 07:38	30° ♄					
direct	-11877 Nov 17 j 14:51	29° ♂ 45'18		conjunction	-11871 Sep 13 j 03:38	0° ♄ 16'37	1°24'19
	-11877 Nov 30 j 00:32	0° ♄		minimum elong	-11871 Sep 13 j 03:43	0° ♄ 16'40	1°25'01
evening set	-11876 Mar 25 j 21:25	18° ♄ 34'58		max. Earth dist.	-11871 Sep 13 j 03:28	0° ♄ 16'31	6.19620 AU
				morning rise	-11871 Sep 25 j 19:07	3° ♄ 11'37	
conjunction	-11876 Apr 08 j 08:39	21° ♄ 36'15	-0°55'37	retrograde	-11870 Feb 01 j 20:22	22° ♄ 14'07	
minimum elong	-11876 Apr 08 j 08:44	21° ♄ 36'18	0°56'15	opposition	-11870 Apr 04 j 07:17	17° ♄ 14'44	1°32'38
max. Earth dist.	-11876 Apr 07 j 22:22	21° ♄ 30'28	6.24773 AU	min. Earth dist.	-11870 Apr 04 j 01:09	17° ♄ 16'44	4.15923 AU
morning rise	-11876 Apr 21 j 16:48	24° ♄ 35'54		direct	-11870 Jun 02 j 23:55	12° ♄ 21'51	
	-11876 May 16 j 11:43	0° ♄			-11870 Sep 30 j 08:03	0° ♄	
retrograde	-11876 Aug 21 j 11:33	12° ♄ 21'00		evening set	-11870 Oct 03 j 16:12	0° ♄ 46'21	
opposition	-11876 Oct 19 j 20:06	7° ♄ 26'01	-0°43'26				
min. Earth dist.	-11876 Oct 20 j 07:35	7° ♄ 22'13	4.28092 AU	conjunction	-11870 Oct 16 j 15:34	3° ♄ 47'38	0°35'45
direct	-11876 Dec 20 j 10:46	2° ♄ 22'12		minimum elong	-11870 Oct 16 j 15:38	3° ♄ 47'40	0°36'20
	-11875 Apr 01 j 06:10	15° ♄		max. Earth dist.	-11870 Oct 17 j 08:04	3° ♄ 57'15	6.12515 AU
evening set	-11875 Apr 28 j 08:55	20° ♄ 50'14		morning rise	-11870 Oct 29 j 18:18	6° ♄ 50'50	
					-11870 Dec 05 j 13:01	15° ♄	
conjunction	-11875 May 11 j 12:31	23° ♄ 46'04	0°00'01	retrograde	-11869 Mar 09 j 19:16	26° ♄ 28'03	
minimum elong	-11875 May 11 j 12:31	23° ♄ 46'04	0°00'24	opposition	-11869 May 09 j 14:34	21° ♄ 25'16	0°06'41
behind sun begin	-11875 May 11 j 04:26	23° ♄ 41'35		min. Earth dist.	-11869 May 08 j 23:26	21° ♄ 30'17	4.09786 AU
behind sun end	-11875 May 11 j 20:36	23° ♄ 50'34		desc. node	-11869 Jun 06 j 19:58	18° ♄ 02'08	
max. Earth dist.	-11875 May 10 j 13:35	23° ♄ 33'16	6.30732 AU	direct	-11869 Jul 07 j 06:22	16° ♄ 31'08	
asc. node	-11875 May 11 j 06:04	23° ♄ 42'30			-11869 Oct 15 j 10:45	0° ♄	
morning rise	-11875 May 24 j 12:40	26° ♄ 40'08		evening set	-11869 Nov 07 j 13:40	5° ♄ 15'50	
	-11875 Jun 08 j 17:31	0° ♄					
retrograde	-11875 Sep 22 j 05:12	14° ♄ 02'25		conjunction	-11869 Nov 20 j 23:07	8° ♄ 23'37	-0°26'14
opposition	-11875 Nov 21 j 06:58	9° ♄ 09'53	0°40'42	minimum elong	-11869 Nov 20 j 23:04	8° ♄ 23'36	0°25'57
min. Earth dist.	-11875 Nov 22 j 00:42	9° ♄ 04'09	4.32552 AU	max. Earth dist.	-11869 Nov 22 j 01:24	8° ♄ 39'00	6.07929 AU
direct	-11874 Jan 22 j 14:33	4° ♄ 08'03		morning rise	-11869 Dec 04 j 12:13	11° ♄ 33'18	
evening set	-11874 May 30 j 11:13	22° ♄ 18'59			-11868 Mar 14 j 16:42	0° ♄	
max. Earth dist.	-11874 Jun 11 j 02:50	24° ♄ 54'51	6.33338 AU	retrograde	-11868 Apr 13 j 20:09	1° ♄ 25'55	
					-11868 May 13 j 16:52	30° ♄	
conjunction	-11874 Jun 12 j 05:24	25° ♄ 09'43	0°54'50	opposition	-11868 Jun 12 j 20:54	26° ♄ 21'06	-1°23'18
minimum elong	-11874 Jun 12 j 05:20	25° ♄ 09'40	0°54'45	min. Earth dist.	-11868 Jun 12 j 01:34	26° ♄ 27'40	4.07220 AU
morning rise	-11874 Jun 24 j 20:34	27° ♄ 59'00		direct	-11868 Aug 10 j 01:24	21° ♄ 24'07	
	-11874 Jul 03 j 23:54	0° ♄			-11868 Oct 25 j 22:52	0° ♄	
retrograde	-11874 Oct 24 j 04:09	15° ♄ 21'31		evening set	-11868 Dec 13 j 02:00	10° ♄ 27'51	
opposition	-11874 Dec 23 j 23:45	10° ♄ 29'46	1°52'05				
min. Earth dist.	-11874 Dec 24 j 18:48	10° ♄ 23'43	4.33218 AU	conjunction	-11868 Dec 26 j 17:40	13° ♄ 38'15	-1°19'21
direct	-11873 Feb 24 j 10:30	5° ♄ 30'58		minimum elong	-11868 Dec 26 j 17:34	13° ♄ 38'12	1°19'28
evening set	-11873 Jun 30 j 17:53	23° ♄ 32'49		max. Earth dist.	-11868 Dec 27 j 23:13	13° ♄ 55'28	6.07541 AU
max. Earth dist.	-11873 Jul 12 j 03:28	26° ♄ 06'36	6.31889 AU	morning rise	-11867 Jan 09 j 11:16	16° ♄ 49'40	
					-11867 Mar 13 j 08:33	0° ♄	
conjunction	-11873 Jul 13 j 04:13	26° ♄ 20'33	1°33'28	retrograde	-11867 May 19 j 09:08	6° ♄ 30'44	
minimum elong	-11873 Jul 13 j 04:08	26° ♄ 20'30	1°33'45	opposition	-11867 Jul 17 j 15:16	1° ♄ 26'19	-2°23'03

Attention, astronomical year style is used: The year -11867 in astronomical counting style is the year 11868 BCE in historical counting style.

min. Earth dist.	-11867 Jul 16 j 23:38	1° \mathbb{M} 31'40	4.09175 AU		-11861 Jul 13 j 17:27	0° \mathcal{B}	
	-11867 Jul 28 j 06:49	30° $\mathcal{R}\mathcal{A}$					
direct	-11867 Sep 14 j 03:00	26° \mathcal{A} 25'57		conjunction	-11861 Jul 17 j 12:43	0° \mathcal{B} 51'32	1°36'54
	-11867 Oct 31 j 20:06	0° \mathbb{M}		minimum elong	-11861 Jul 17 j 12:39	0° \mathcal{B} 51'30	1°37'13
	-11866 Jan 16 j 11:02	15° \mathbb{M}		max. Earth dist.	-11861 Jul 16 j 14:37	0° \mathcal{B} 39'04	6.31285 AU
evening set	-11866 Jan 19 j 05:46	15° \mathbb{M} 38'06		morning rise	-11861 Jul 29 j 21:08	3° \mathcal{B} 38'40	
					-11861 Sep 23 j 09:16	15° \mathcal{B}	
conjunction	-11866 Feb 01 j 22:42	18° \mathbb{M} 47'07	-1°43'28	retrograde	-11861 Nov 30 j 14:33	21° \mathcal{B} 27'28	
minimum elong	-11866 Feb 01 j 22:40	18° \mathbb{M} 47'06	1°43'57	opposition	-11860 Jan 31 j 01:46	16° \mathcal{B} 34'17	2°33'13
max. Earth dist.	-11866 Feb 02 j 17:59	18° \mathbb{M} 58'13	6.11522 AU	min. Earth dist.	-11860 Jan 31 j 15:04	16° \mathcal{B} 30'05	4.29106 AU
morning rise	-11866 Feb 15 j 15:49	21° \mathbb{M} 56'04			-11860 Feb 12 j 17:00	15° $\mathcal{R}\mathcal{B}$	
	-11866 Mar 24 j 10:43	0° \mathcal{A}		direct	-11860 Apr 01 j 21:17	11° \mathcal{B} 38'59	
retrograde	-11866 Jun 22 j 16:03	11° \mathcal{A} 01'20			-11860 May 19 j 19:35	15° \mathcal{B}	
opposition	-11866 Aug 20 j 14:15	5° \mathcal{A} 59'29	-2°30'57	evening set	-11860 Aug 04 j 07:19	29° \mathcal{B} 41'13	
min. Earth dist.	-11866 Aug 20 j 06:18	6° \mathcal{A} 02'12	4.14852 AU		-11860 Aug 05 j 16:24	0° \mathbb{I}	
direct	-11866 Oct 18 j 23:42	0° \mathcal{A} 56'19					
evening set	-11865 Feb 24 j 17:12	20° \mathcal{A} 01'27		conjunction	-11860 Aug 16 j 15:42	2° \mathbb{I} 30'15	1°43'56
				minimum elong	-11860 Aug 16 j 15:43	2° \mathbb{I} 30'16	1°44'31
conjunction	-11865 Mar 10 j 08:22	23° \mathcal{A} 06'49	-1°30'52	max. Earth dist.	-11860 Aug 16 j 03:03	2° \mathbb{I} 23'01	6.25961 AU
minimum elong	-11865 Mar 10 j 08:27	23° \mathcal{A} 06'52	1°31'32	morning rise	-11860 Aug 29 j 00:55	5° \mathbb{I} 19'47	
max. Earth dist.	-11865 Mar 10 j 11:36	23° \mathcal{A} 08'40	6.18400 AU	retrograde	-11859 Jan 02 j 14:58	23° \mathbb{I} 45'53	
morning rise	-11865 Mar 23 j 21:41	26° \mathcal{A} 11'08		opposition	-11859 Mar 05 j 07:11	18° \mathbb{I} 49'43	2°20'33
	-11865 Apr 10 j 01:34	0° \mathcal{B}		min. Earth dist.	-11859 Mar 05 j 10:15	18° \mathbb{I} 48'44	4.22569 AU
retrograde	-11865 Jul 25 j 19:20	14° \mathcal{B} 30'31		direct	-11859 May 05 j 00:53	13° \mathbb{I} 56'23	
opposition	-11865 Sep 22 j 18:13	9° \mathcal{B} 32'26	-1°47'45		-11859 Aug 26 j 21:25	0° \mathcal{E}	
min. Earth dist.	-11865 Sep 22 j 21:46	9° \mathcal{B} 31'15	4.22214 AU	evening set	-11859 Sep 05 j 03:53	2° \mathcal{E} 06'54	
direct	-11865 Nov 22 j 09:39	4° \mathcal{B} 28'08					
evening set	-11864 Mar 30 j 15:32	23° \mathcal{B} 14'35		conjunction	-11859 Sep 17 j 18:17	5° \mathcal{E} 01'28	1°18'57
				minimum elong	-11859 Sep 17 j 18:22	5° \mathcal{E} 01'31	1°19'38
conjunction	-11864 Apr 13 j 01:57	26° \mathcal{B} 15'09	-0°48'27	max. Earth dist.	-11859 Sep 17 j 21:54	5° \mathcal{E} 03'34	6.18793 AU
minimum elong	-11864 Apr 13 j 02:02	26° \mathcal{B} 15'11	0°49'05	morning rise	-11859 Sep 30 j 11:00	7° \mathcal{E} 57'25	
max. Earth dist.	-11864 Apr 12 j 13:16	26° \mathcal{B} 08'01	6.25743 AU	retrograde	-11858 Feb 06 j 20:17	27° \mathcal{E} 04'26	
morning rise	-11864 Apr 26 j 09:10	29° \mathcal{B} 14'02		opposition	-11858 Apr 09 j 05:26	22° \mathcal{E} 04'36	1°22'04
	-11864 Apr 29 j 19:46	0° \approx		min. Earth dist.	-11858 Apr 08 j 21:58	22° \mathcal{E} 07'01	4.15218 AU
	-11864 Jul 22 j 03:17	15° \approx		direct	-11858 Jun 07 j 18:22	17° \mathcal{E} 11'41	
retrograde	-11864 Aug 25 j 21:14	16° \approx 54'51			-11858 Sep 13 j 12:58	0° \mathcal{Q}	
	-11864 Sep 29 j 18:37	15° $\mathcal{R}\mathcal{A}$		evening set	-11858 Oct 08 j 10:15	5° \mathcal{Q} 37'39	
opposition	-11864 Oct 24 j 08:47	12° \approx 00'17	-0°31'49				
min. Earth dist.	-11864 Oct 24 j 21:05	11° \approx 56'14	4.28843 AU	conjunction	-11858 Oct 21 j 10:55	8° \mathcal{Q} 39'48	0°27'28
direct	-11864 Dec 25 j 01:43	6° \approx 56'39		minimum elong	-11858 Oct 21 j 10:58	8° \mathcal{Q} 39'49	0°28'01
	-11863 Mar 13 j 12:19	15° \approx		max. Earth dist.	-11858 Oct 22 j 04:00	8° \mathcal{Q} 49'46	6.11988 AU
asc. node	-11863 Mar 21 j 01:31	16° \approx 24'14		morning rise	-11858 Nov 03 j 15:20	11° \mathcal{Q} 43'57	
evening set	-11863 May 02 j 22:11	25° \approx 22'15			-11858 Nov 17 j 22:00	15° \mathcal{Q}	
max. Earth dist.	-11863 May 15 j 00:43	28° \approx 04'05	6.31225 AU		-11857 Feb 12 j 16:48	0° \mathbb{P}	
				retrograde	-11857 Mar 14 j 17:51	1° \mathbb{P} 23'32	
conjunction	-11863 May 16 j 00:31	28° \approx 17'22	0°08'10		-11857 Apr 13 j 14:22	30° $\mathcal{R}\mathcal{Q}$	
minimum elong	-11863 May 16 j 00:30	28° \approx 17'22	0°07'47	desc. node	-11857 Apr 17 j 16:47	29° \mathcal{Q} 36'33	
behind sun begin	-11863 May 15 j 17:14	28° \approx 13'19		opposition	-11857 May 14 j 12:12	26° \mathcal{Q} 20'19	-0°06'20
behind sun end	-11863 May 16 j 07:46	28° \approx 21'24		min. Earth dist.	-11857 May 13 j 19:40	26° \mathcal{Q} 25'50	4.09468 AU
	-11863 May 23 j 16:16	0° \mathcal{H}		direct	-11857 Jul 12 j 01:34	21° \mathcal{Q} 25'51	
morning rise	-11863 May 28 j 23:25	1° \mathcal{H} 10'43			-11857 Sep 26 j 18:27	0° \mathbb{P}	
retrograde	-11863 Sep 26 j 16:33	18° \mathcal{H} 32'04		evening set	-11857 Nov 12 j 12:34	10° \mathbb{P} 12'24	
opposition	-11863 Nov 25 j 20:08	13° \mathcal{H} 39'49	0°51'57				
min. Earth dist.	-11863 Nov 26 j 14:55	13° \mathcal{H} 33'46	4.32758 AU	conjunction	-11857 Nov 25 j 23:14	13° \mathbb{P} 20'42	-0°34'36
direct	-11862 Jan 27 j 05:44	8° \mathcal{H} 38'25		minimum elong	-11857 Nov 25 j 23:10	13° \mathbb{P} 20'40	0°34'24
evening set	-11862 Jun 03 j 21:24	26° \mathcal{H} 48'07		max. Earth dist.	-11857 Nov 27 j 03:29	13° \mathbb{P} 37'13	6.07847 AU
max. Earth dist.	-11862 Jun 15 j 10:41	29° \mathcal{H} 22'53	6.33230 AU	morning rise	-11857 Dec 09 j 13:05	16° \mathbb{P} 30'45	
					-11856 Feb 12 j 00:40	0° \mathcal{A}	
conjunction	-11862 Jun 16 j 14:18	29° \mathcal{H} 38'21	1°01'32	retrograde	-11856 Apr 18 j 19:21	6° \mathcal{A} 22'37	
minimum elong	-11862 Jun 16 j 14:13	29° \mathcal{H} 38'18	1°01'29	opposition	-11856 Jun 17 j 16:37	1° \mathcal{A} 17'46	-1°33'59
	-11862 Jun 18 j 04:59	0° \mathcal{Y}		min. Earth dist.	-11856 Jun 16 j 22:22	1° \mathcal{A} 23'59	4.07389 AU
morning rise	-11862 Jun 29 j 04:31	2° \mathcal{Y} 27'15			-11856 Jun 27 j 08:08	30° $\mathcal{R}\mathcal{P}$	
retrograde	-11862 Oct 28 j 17:04	19° \mathcal{Y} 52'10		direct	-11856 Aug 14 j 21:50	26° \mathbb{P} 20'21	
opposition	-11862 Dec 28 j 15:06	15° \mathcal{Y} 00'21	1°59'54		-11856 Oct 01 j 21:07	0° \mathcal{A}	
min. Earth dist.	-11862 Dec 29 j 09:30	14° \mathcal{Y} 54'31	4.32843 AU	evening set	-11856 Dec 18 j 04:15	15° \mathcal{A} 25'34	
direct	-11861 Mar 01 j 00:20	10° \mathcal{Y} 02'01					
evening set	-11861 Jul 05 j 02:56	28° \mathcal{Y} 03'51		conjunction	-11856 Dec 31 j 20:11	18° \mathcal{A} 35'55	-1°24'42

Attention, astronomical year style is used: The year -11855 in astronomical counting style is the year 11856 BCE in historical counting style.

minimum elong	-11856 Dec 31 j 20:04	18° ♁ 35'51	1°24'53	opposition	-11849 Jan 02 j 07:21	19° ♁ 33'05	2°07'01
max. Earth dist.	-11855 Jan 01 j 23:21	18° ♁ 51'43	6.07910 AU	min. Earth dist.	-11849 Jan 03 j 01:38	19° ♁ 27'17	4.32633 AU
morning rise	-11855 Jan 14 j 14:05	21° ♁ 47'12		direct	-11849 Mar 05 j 16:42	14° ♁ 35'10	
	-11855 Feb 20 j 16:49	0° ♁			-11849 Jun 27 j 19:09	0° ♁	
retrograde	-11855 May 24 j 03:05	11° ♁ 24'31		evening set	-11849 Jul 09 j 12:15	2° ♁ 36'02	
opposition	-11855 Jul 22 j 08:13	6° ♁ 20'22	-2°27'25				
min. Earth dist.	-11855 Jul 21 j 16:59	6° ♁ 25'36	4.09731 AU	conjunction	-11849 Jul 21 j 21:20	5° ♁ 23'33	1°39'46
direct	-11855 Sep 18 j 21:34	1° ♁ 19'32		minimum elong	-11849 Jul 21 j 21:17	5° ♁ 23'31	1°40'07
	-11855 Dec 30 j 13:00	15° ♁		max. Earth dist.	-11849 Jul 20 j 23:34	5° ♁ 11'14	6.30879 AU
evening set	-11854 Jan 24 j 07:29	20° ♁ 32'02		morning rise	-11849 Aug 03 j 05:32	8° ♁ 10'41	
					-11849 Sep 03 j 17:44	15° ♁	
conjunction	-11854 Feb 07 j 00:25	23° ♁ 40'44	-1°43'53	retrograde	-11849 Dec 05 j 06:28	26° ♁ 03'17	
minimum elong	-11854 Feb 07 j 00:24	23° ♁ 40'43	1°44'24	opposition	-11848 Feb 04 j 19:46	21° ♁ 09'40	2°34'19
max. Earth dist.	-11854 Feb 07 j 17:18	23° ♁ 50'26	6.12209 AU	min. Earth dist.	-11848 Feb 05 j 07:09	21° ♁ 06'04	4.28533 AU
morning rise	-11854 Feb 20 j 17:09	26° ♁ 49'12		direct	-11848 Apr 06 j 11:47	16° ♁ 14'37	
	-11854 Mar 06 j 19:22	0° ♁			-11848 Jul 20 j 12:17	0° ♁	
retrograde	-11854 Jun 27 j 08:50	15° ♁ 49'12		evening set	-11848 Aug 08 j 17:01	4° ♁ 16'46	
opposition	-11854 Aug 25 j 05:10	10° ♁ 47'52	-2°27'45				
min. Earth dist.	-11854 Aug 24 j 23:46	10° ♁ 49'42	4.15594 AU	conjunction	-11848 Aug 21 j 01:55	7° ♁ 06'15	1°42'21
direct	-11854 Oct 23 j 18:44	5° ♁ 44'26		minimum elong	-11848 Aug 21 j 01:57	7° ♁ 06'16	1°42'58
evening set	-11853 Mar 01 j 15:25	24° ♁ 48'27		max. Earth dist.	-11848 Aug 20 j 16:30	7° ♁ 00'52	6.25256 AU
				morning rise	-11848 Sep 02 j 11:37	9° ♁ 56'20	
conjunction	-11853 Mar 15 j 06:16	27° ♁ 53'24	-1°26'27	retrograde	-11847 Jan 07 j 11:44	28° ♁ 27'13	
minimum elong	-11853 Mar 15 j 06:22	27° ♁ 53'28	1°27'07	opposition	-11847 Mar 10 j 03:12	23° ♁ 30'34	2°14'57
max. Earth dist.	-11853 Mar 15 j 07:30	27° ♁ 54'06	6.19147 AU	min. Earth dist.	-11847 Mar 10 j 05:30	23° ♁ 29'50	4.21760 AU
	-11853 Mar 24 j 13:40	0° ♁		direct	-11847 May 09 j 17:42	18° ♁ 37'23	
morning rise	-11853 Mar 28 j 18:56	0° ♁ 57'10			-11847 Aug 09 j 23:53	0° ♁	
retrograde	-11853 Jul 30 j 06:35	19° ♁ 11'36		evening set	-11847 Sep 09 j 16:38	6° ♁ 48'51	
opposition	-11853 Sep 27 j 07:34	14° ♁ 14'03	-1°38'37				
min. Earth dist.	-11853 Sep 27 j 11:41	14° ♁ 12'40	4.22908 AU	conjunction	-11847 Sep 22 j 08:06	9° ♁ 44'17	1°13'08
direct	-11853 Nov 27 j 01:32	9° ♁ 09'44		minimum elong	-11847 Sep 22 j 08:12	9° ♁ 44'21	1°13'47
evening set	-11852 Apr 04 j 09:30	27° ♁ 54'28		max. Earth dist.	-11847 Sep 22 j 12:16	9° ♁ 46'42	6.17949 AU
	-11852 Apr 13 j 17:57	0° ♁		morning rise	-11847 Oct 05 j 02:27	12° ♁ 41'18	
conjunction	-11852 Apr 17 j 18:56	0° ♁ 54'27	-0°40'59	retrograde	-11846 Jan 07 j 07:34	0° ♁	
minimum elong	-11852 Apr 17 j 19:00	0° ♁ 54'29	0°41'36		-11846 Feb 11 j 18:04	1° ♁ 52'59	
max. Earth dist.	-11852 Apr 17 j 03:54	0° ♁ 46'01	6.26358 AU	opposition	-11846 Mar 19 j 03:55	30° ♁	
morning rise	-11852 May 01 j 01:15	3° ♁ 52'43		min. Earth dist.	-11846 Apr 14 j 02:31	26° ♁ 52'34	1°11'01
	-11852 Jun 24 j 09:22	15° ♁		direct	-11846 Apr 13 j 17:05	26° ♁ 55'39	4.14389 AU
retrograde	-11852 Aug 30 j 09:43	21° ♁ 30'31			-11846 Jun 12 j 11:11	21° ♁ 59'31	
opposition	-11852 Oct 28 j 22:10	16° ♁ 36'21	-0°19'57	evening set	-11846 Aug 25 j 19:34	0° ♁	
min. Earth dist.	-11852 Oct 29 j 12:10	16° ♁ 31'46	4.29324 AU		-11846 Oct 13 j 04:14	10° ♁ 27'46	
	-11852 Nov 10 j 09:27	15° ♁		conjunction	-11846 Oct 26 j 06:33	13° ♁ 30'55	0°19'02
direct	-11852 Dec 29 j 18:56	11° ♁ 32'57		minimum elong	-11846 Oct 26 j 06:35	13° ♁ 30'56	0°19'34
asc. node	-11851 Jan 28 j 23:42	12° ♁ 54'13		max. Earth dist.	-11846 Oct 27 j 02:27	13° ♁ 42'32	6.11270 AU
	-11851 Feb 17 j 01:33	15° ♁			-11846 Nov 01 j 15:09	15° ♁	
evening set	-11851 May 07 j 11:51	29° ♁ 56'45		morning rise	-11846 Nov 08 j 12:21	16° ♁ 36'01	
	-11851 May 07 j 17:43	0° ♁			-11845 Jan 11 j 19:37	0° ♁	
conjunction	-11851 May 20 j 13:02	2° ♁ 51'15	0°16'14	desc. node	-11845 Feb 26 j 05:51	5° ♁ 34'58	
minimum elong	-11851 May 20 j 13:01	2° ♁ 51'14	0°15'54	retrograde	-11845 Mar 19 j 18:51	6° ♁ 18'35	
behind sun begin	-11851 May 20 j 11:47	2° ♁ 50'33		opposition	-11845 May 19 j 09:30	1° ♁ 15'02	-0°19'19
behind sun end	-11851 May 20 j 14:14	2° ♁ 51'55		min. Earth dist.	-11845 May 18 j 17:24	1° ♁ 20'25	4.08917 AU
max. Earth dist.	-11851 May 19 j 13:00	2° ♁ 37'49	6.31538 AU		-11845 May 28 j 20:26	30° ♁	
morning rise	-11851 Jun 02 j 10:42	5° ♁ 43'58		direct	-11845 Jul 16 j 21:23	26° ♁ 20'13	
retrograde	-11851 Oct 01 j 03:16	23° ♁ 04'55		evening set	-11845 Sep 02 j 21:04	0° ♁	
opposition	-11851 Nov 30 j 10:32	18° ♁ 12'46	1°02'59		-11845 Nov 17 j 12:40	15° ♁ 09'49	
min. Earth dist.	-11851 Dec 01 j 04:29	18° ♁ 07'00	4.32908 AU	conjunction	-11845 Dec 01 j 00:16	18° ♁ 18'41	-0°42'46
direct	-11850 Jan 31 j 20:11	13° ♁ 11'45		minimum elong	-11845 Dec 01 j 00:11	18° ♁ 18'38	0°42'35
	-11850 Jun 02 j 07:25	0° ♁		max. Earth dist.	-11845 Dec 02 j 03:34	18° ♁ 34'38	6.07501 AU
evening set	-11850 Jun 08 j 08:07	1° ♁ 20'00		morning rise	-11845 Dec 14 j 15:13	21° ♁ 29'16	
					-11844 Jan 22 j 00:05	0° ♁	
conjunction	-11850 Jun 20 j 23:45	4° ♁ 09'40	1°07'54	retrograde	-11844 Apr 23 j 17:44	11° ♁ 21'12	
minimum elong	-11850 Jun 20 j 23:40	4° ♁ 09'37	1°07'55	opposition	-11844 Jun 22 j 12:59	6° ♁ 16'18	-1°44'04
max. Earth dist.	-11850 Jun 19 j 21:18	3° ♁ 54'51	6.33198 AU	min. Earth dist.	-11844 Jun 21 j 18:10	6° ♁ 22'42	4.07298 AU
morning rise	-11850 Jul 03 j 12:51	6° ♁ 58'06		direct	-11844 Aug 19 j 17:26	1° ♁ 18'23	
retrograde	-11850 Nov 02 j 07:20	24° ♁ 25'00		evening set	-11844 Dec 23 j 08:06	20° ♁ 26'08	

Attention, astronomical year style is used: The year -11843 in astronomical counting style is the year 11844 BCE in historical counting style.

conjunction	-11843 Jan 06 j 00:30	23° Ω 36'34	-1°29'30	min. Earth dist.	-11837 Jan 07 j 15:45	23° Υ 59'24	4.32685 AU
minimum elong	-11843 Jan 06 j 00:24	23° Ω 36'31	1°29'44	direct	-11837 Mar 10 j 06:15	19° Υ 07'11	
max. Earth dist.	-11843 Jan 07 j 02:44	23° Ω 51'49	6.08065 AU		-11837 Jun 10 j 20:38	0° \mathcal{B}	
morning rise	-11843 Jan 19 j 18:27	26° Ω 47'45		evening set	-11837 Jul 13 j 20:26	7° \mathcal{B} 06'17	
	-11843 Feb 02 j 19:46	0° \mathcal{M}		max. Earth dist.	-11837 Jul 25 j 09:03	9° \mathcal{B} 42'20	6.30698 AU
	-11843 Apr 29 j 22:52	15° \mathcal{M}					
retrograde	-11843 May 29 j 00:50	16° \mathcal{M} 22'04		conjunction	-11837 Jul 26 j 04:59	9° \mathcal{B} 53'36	1°41'58
	-11843 Jun 26 j 17:54	15° $\mathcal{R}\mathcal{M}$		minimum elong	-11837 Jul 26 j 04:56	9° \mathcal{B} 53'34	1°42'22
opposition	-11843 Jul 27 j 03:09	11° \mathcal{M} 18'11	-2°30'48	morning rise	-11837 Aug 07 j 12:48	12° \mathcal{B} 40'39	
min. Earth dist.	-11843 Jul 26 j 13:56	11° \mathcal{M} 22'43	4.10109 AU		-11837 Aug 17 j 22:48	15° \mathcal{B}	
direct	-11843 Sep 23 j 19:38	6° \mathcal{M} 16'54			-11837 Nov 19 j 22:42	0° \mathcal{I}	
	-11843 Dec 11 j 10:29	15° \mathcal{M}		retrograde	-11837 Dec 09 j 23:20	0° \mathcal{I} 36'34	
evening set	-11842 Jan 29 j 11:21	25° \mathcal{M} 30'12			-11837 Dec 29 j 22:49	30° $\mathcal{R}\mathcal{B}$	
				opposition	-11836 Feb 09 j 12:54	25° \mathcal{B} 42'39	2°34'24
conjunction	-11842 Feb 12 j 04:18	28° \mathcal{M} 38'39	-1°43'33	min. Earth dist.	-11836 Feb 10 j 00:15	25° \mathcal{B} 39'03	4.28111 AU
minimum elong	-11842 Feb 12 j 04:19	28° \mathcal{M} 38'39	1°44'07	direct	-11836 Apr 11 j 03:11	20° \mathcal{B} 47'55	
max. Earth dist.	-11842 Feb 12 j 19:50	28° \mathcal{M} 47'34	6.12771 AU		-11836 Jul 02 j 22:48	0° \mathcal{I}	
	-11842 Feb 18 j 02:04	0° \mathcal{A}		evening set	-11836 Aug 13 j 01:30	8° \mathcal{I} 49'35	
morning rise	-11842 Feb 25 j 20:40	1° \mathcal{A} 46'42					
retrograde	-11842 Jul 02 j 01:16	20° \mathcal{A} 41'33		conjunction	-11836 Aug 25 j 10:46	11° \mathcal{I} 39'30	1°40'07
opposition	-11842 Aug 29 j 22:03	15° \mathcal{A} 40'44	-2°23'30	minimum elong	-11836 Aug 25 j 10:49	11° \mathcal{I} 39'32	1°40'45
min. Earth dist.	-11842 Aug 29 j 17:05	15° \mathcal{A} 42'25	4.16292 AU	max. Earth dist.	-11836 Aug 25 j 01:43	11° \mathcal{I} 34'19	6.24621 AU
direct	-11842 Oct 28 j 13:58	10° \mathcal{A} 37'07		morning rise	-11836 Sep 06 j 21:21	14° \mathcal{I} 30'12	
evening set	-11841 Mar 06 j 15:57	29° \mathcal{A} 40'03			-11836 Nov 27 j 02:23	0° \mathcal{E}	
	-11841 Mar 08 j 03:24	0° \mathcal{B}		retrograde	-11835 Jan 12 j 05:16	3° \mathcal{E} 05'45	
					-11835 Feb 28 j 01:01	30° $\mathcal{R}\mathcal{I}$	
conjunction	-11841 Mar 20 j 06:11	2° \mathcal{B} 44'30	-1°21'23	opposition	-11835 Mar 14 j 21:27	28° \mathcal{I} 08'36	2°08'31
minimum elong	-11841 Mar 20 j 06:17	2° \mathcal{B} 44'33	1°22'03	min. Earth dist.	-11835 Mar 14 j 21:46	28° \mathcal{I} 08'30	4.20944 AU
max. Earth dist.	-11841 Mar 20 j 04:11	2° \mathcal{B} 43'22	6.19941 AU	direct	-11835 May 14 j 06:59	23° \mathcal{I} 15'31	
morning rise	-11841 Apr 02 j 18:18	5° \mathcal{B} 47'41			-11835 Jul 21 j 17:23	0° \mathcal{E}	
retrograde	-11841 Aug 03 j 22:10	23° \mathcal{B} 57'03		evening set	-11835 Sep 14 j 04:21	11° \mathcal{E} 28'20	
opposition	-11841 Oct 01 j 23:24	19° \mathcal{B} 00'02	-1°28'40				
min. Earth dist.	-11841 Oct 02 j 05:30	18° \mathcal{B} 57'59	4.23715 AU	conjunction	-11835 Sep 26 j 21:15	14° \mathcal{E} 24'46	1°06'54
direct	-11841 Dec 01 j 22:07	13° \mathcal{B} 55'48		minimum elong	-11835 Sep 26 j 21:20	14° \mathcal{E} 24'49	1°07'33
	-11840 Mar 28 j 05:51	0° \approx		max. Earth dist.	-11835 Sep 27 j 04:01	14° \mathcal{E} 28'41	6.17042 AU
evening set	-11840 Apr 09 j 04:42	2° \approx 38'06		morning rise	-11835 Oct 09 j 16:54	17° \mathcal{E} 22'48	
					-11835 Dec 09 j 05:38	0° \mathcal{Q}	
conjunction	-11840 Apr 22 j 13:20	5° \approx 37'25	-0°33'10	retrograde	-11834 Feb 16 j 16:37	6° \mathcal{Q} 39'26	
minimum elong	-11840 Apr 22 j 13:24	5° \approx 37'27	0°33'44	opposition	-11834 Apr 18 j 22:14	1° \mathcal{Q} 38'34	0°59'37
max. Earth dist.	-11840 Apr 21 j 22:24	5° \approx 29'02	6.27153 AU	min. Earth dist.	-11834 Apr 18 j 13:01	1° \mathcal{Q} 41'36	4.13439 AU
morning rise	-11840 May 05 j 18:27	8° \approx 34'56			-11834 May 01 j 17:12	30° $\mathcal{R}\mathcal{E}$	
	-11840 Jun 04 j 12:44	15° \approx		direct	-11834 Jun 17 j 04:24	26° \mathcal{E} 45'22	
retrograde	-11840 Sep 03 j 21:17	26° \approx 09'15			-11834 Aug 01 j 12:50	0° \mathcal{Q}	
opposition	-11840 Nov 02 j 13:17	21° \approx 15'29	-0°07'51		-11834 Oct 16 j 17:02	15° \mathcal{Q}	
min. Earth dist.	-11840 Nov 03 j 02:44	21° \approx 11'05	4.30053 AU	evening set	-11834 Oct 17 j 21:54	15° \mathcal{Q} 16'45	
asc. node	-11840 Dec 08 j 17:47	17° \approx 12'51					
direct	-11839 Jan 03 j 11:50	16° \approx 12'26		conjunction	-11834 Oct 31 j 01:35	18° \mathcal{Q} 20'56	0°10'35
	-11839 Apr 21 j 02:25	0° \mathcal{H}		minimum elong	-11834 Oct 31 j 01:36	18° \mathcal{Q} 20'56	0°11'02
evening set	-11839 May 12 j 02:20	4° \mathcal{H} 33'21		behind sun begin	-11834 Oct 30 j 19:27	18° \mathcal{Q} 17'22	
max. Earth dist.	-11839 May 24 j 00:59	7° \mathcal{H} 13'01	6.32160 AU	behind sun end	-11834 Oct 31 j 07:44	18° \mathcal{Q} 24'31	
				max. Earth dist.	-11834 Oct 31 j 21:24	18° \mathcal{Q} 32'30	6.10373 AU
conjunction	-11839 May 25 j 02:00	7° \mathcal{H} 26'59	0°24'15	morning rise	-11834 Nov 13 j 09:03	21° \mathcal{Q} 27'08	
minimum elong	-11839 May 25 j 01:57	7° \mathcal{H} 26'58	0°23'58		-11834 Dec 21 j 23:23	0° \mathcal{H}	
morning rise	-11839 Jun 06 j 22:26	10° \mathcal{H} 18'56		desc. node	-11833 Jan 06 j 22:37	3° \mathcal{H} 08'09	
retrograde	-11839 Oct 05 j 16:39	27° \mathcal{H} 38'41		retrograde	-11833 Mar 24 j 17:24	11° \mathcal{H} 13'20	
opposition	-11839 Dec 05 j 01:47	22° \mathcal{H} 46'42	1°13'38	opposition	-11833 May 24 j 05:59	6° \mathcal{H} 09'30	-0°32'03
min. Earth dist.	-11839 Dec 05 j 20:34	22° \mathcal{H} 40'41	4.33377 AU	min. Earth dist.	-11833 May 23 j 12:36	6° \mathcal{H} 15'20	4.08170 AU
direct	-11838 Feb 05 j 13:49	17° \mathcal{H} 46'06		direct	-11833 Jul 21 j 14:50	1° \mathcal{H} 14'19	
	-11838 May 16 j 13:47	0° Υ		evening set	-11833 Nov 22 j 13:01	20° \mathcal{H} 07'59	
evening set	-11838 Jun 12 j 18:32	5° Υ 51'44					
max. Earth dist.	-11838 Jun 24 j 07:23	8° Υ 26'24	6.33459 AU	conjunction	-11833 Dec 06 j 01:41	23° \mathcal{H} 17'31	-0°50'34
				minimum elong	-11833 Dec 06 j 01:35	23° \mathcal{H} 17'28	0°50'27
conjunction	-11838 Jun 25 j 09:01	8° Υ 40'46	1°13'50	max. Earth dist.	-11833 Dec 07 j 05:35	23° \mathcal{H} 33'50	6.06971 AU
minimum elong	-11838 Jun 25 j 08:56	8° Υ 40'43	1°13'54	morning rise	-11833 Dec 19 j 17:21	26° \mathcal{H} 28'38	
morning rise	-11838 Jul 07 j 21:02	11° Υ 28'38			-11832 Jan 04 j 02:23	0° \mathcal{A}	
retrograde	-11838 Nov 06 j 19:27	28° Υ 56'44		retrograde	-11832 Apr 28 j 18:06	16° \mathcal{A} 21'19	
opposition	-11837 Jan 06 j 23:07	24° Υ 04'40	2°13'17	opposition	-11832 Jun 27 j 09:29	11° \mathcal{A} 16'23	-1°53'23

Attention, astronomical year style is used: The year -11832 in astronomical counting style is the year 11833 BCE in historical counting style.

min. Earth dist.	-11832 Jun 26 j 15:49	11° Ω 22'25	4.07055 AU	evening set	-11826 Jun 17 j 03:47	10° Υ 20'24	
direct	-11832 Aug 24 j 15:00	6° Ω 17'59					
evening set	-11832 Dec 28 j 12:55	25° Ω 28'53		conjunction	-11826 Jun 29 j 17:00	13° Υ 08'55	1°19'19
				minimum elong	-11826 Jun 29 j 16:54	13° Υ 08'52	1°19'26
conjunction	-11831 Jan 11 j 05:43	28° Ω 39'25	-1°33'36	max. Earth dist.	-11826 Jun 28 j 14:44	12° Υ 54'11	6.33377 AU
minimum elong	-11831 Jan 11 j 05:38	28° Ω 39'22	1°33'53	morning rise	-11826 Jul 12 j 04:10	15° Υ 56'24	
max. Earth dist.	-11831 Jan 12 j 07:45	28° Ω 54'32	6.08128 AU		-11826 Sep 23 j 21:42	0° \mathcal{B}	
	-11831 Jan 17 j 00:34	0° \mathcal{M}		retrograde	-11826 Nov 11 j 10:39	3° \mathcal{B} 27'12	
morning rise	-11831 Jan 24 j 23:45	1° \mathcal{M} 50'32			-11826 Dec 31 j 06:07	30° $\mathcal{R}\Upsilon$	
	-11831 Mar 28 j 23:56	15° \mathcal{M}		opposition	-11825 Jan 11 j 15:00	28° Υ 35'00	2°18'51
retrograde	-11831 Jun 02 j 21:23	21° \mathcal{M} 21'40		min. Earth dist.	-11825 Jan 12 j 08:20	28° Υ 29'30	4.32272 AU
opposition	-11831 Jul 31 j 22:18	16° \mathcal{M} 18'06	-2°33'03	direct	-11825 Mar 14 j 21:29	23° Υ 37'52	
min. Earth dist.	-11831 Jul 31 j 09:07	16° \mathcal{M} 22'37	4.10504 AU		-11825 May 22 j 04:35	0° \mathcal{B}	
	-11831 Aug 10 j 12:56	15° $\mathcal{R}\mathcal{M}$		evening set	-11825 Jul 18 j 04:56	11° \mathcal{B} 36'53	
direct	-11831 Sep 28 j 15:45	11° \mathcal{M} 16'26					
	-11831 Nov 16 j 19:48	15° \mathcal{M}		conjunction	-11825 Jul 30 j 13:14	14° \mathcal{B} 24'20	1°43'38
	-11830 Feb 01 j 10:47	0° \mathcal{Z}		minimum elong	-11825 Jul 30 j 13:11	14° \mathcal{B} 24'19	1°44'04
evening set	-11830 Feb 03 j 15:54	0° \mathcal{Z} 30'12		max. Earth dist.	-11825 Jul 29 j 18:16	14° \mathcal{B} 13'35	6.29969 AU
					-11825 Aug 02 j 04:09	15° \mathcal{B}	
conjunction	-11830 Feb 17 j 08:33	3° \mathcal{Z} 38'16	-1°42'27	morning rise	-11825 Aug 11 j 20:59	17° \mathcal{B} 11'38	
minimum elong	-11830 Feb 17 j 08:35	3° \mathcal{Z} 38'17	1°43'02		-11825 Oct 14 j 20:10	0° \mathcal{I}	
max. Earth dist.	-11830 Feb 17 j 21:08	3° \mathcal{Z} 45'29	6.13455 AU	retrograde	-11825 Dec 14 j 15:52	5° \mathcal{I} 12'44	
morning rise	-11830 Mar 03 j 00:38	6° \mathcal{Z} 45'52		opposition	-11824 Feb 14 j 07:12	0° \mathcal{I} 18'27	2°33'40
retrograde	-11830 Jul 06 j 18:50	25° \mathcal{Z} 34'55		min. Earth dist.	-11824 Feb 14 j 16:36	0° \mathcal{I} 15'28	4.27131 AU
opposition	-11830 Sep 03 j 15:29	20° \mathcal{Z} 34'31	-2°18'10		-11824 Feb 16 j 17:23	30° $\mathcal{R}\mathcal{B}$	
min. Earth dist.	-11830 Sep 03 j 12:14	20° \mathcal{Z} 35'37	4.17182 AU	direct	-11824 Apr 15 j 16:35	25° \mathcal{B} 24'02	
direct	-11830 Nov 02 j 12:29	15° \mathcal{Z} 30'39			-11824 Jun 11 j 02:53	0° \mathcal{I}	
	-11829 Feb 19 j 03:55	0° \mathcal{Z}		evening set	-11824 Aug 17 j 12:12	13° \mathcal{I} 27'16	
evening set	-11829 Mar 11 j 15:45	4° \mathcal{Z} 31'13					
				conjunction	-11824 Aug 29 j 22:12	16° \mathcal{I} 17'57	1°37'16
conjunction	-11829 Mar 25 j 05:35	7° \mathcal{Z} 35'02	-1°15'45	minimum elong	-11824 Aug 29 j 22:15	16° \mathcal{I} 18'00	1°37'54
minimum elong	-11829 Mar 25 j 05:40	7° \mathcal{Z} 35'05	1°16'26	max. Earth dist.	-11824 Aug 29 j 15:25	16° \mathcal{I} 14'04	6.23470 AU
max. Earth dist.	-11829 Mar 25 j 03:22	7° \mathcal{Z} 33'47	6.20979 AU	morning rise	-11824 Sep 11 j 09:39	19° \mathcal{I} 09'33	
morning rise	-11829 Apr 07 j 16:43	10° \mathcal{Z} 37'26			-11824 Nov 01 j 19:03	0° \mathcal{B}	
retrograde	-11829 Aug 08 j 11:07	28° \mathcal{Z} 40'43		retrograde	-11823 Jan 17 j 05:09	7° \mathcal{B} 51'38	
opposition	-11829 Oct 06 j 14:34	23° \mathcal{Z} 44'09	-1°18'11	opposition	-11823 Mar 19 j 19:05	2° \mathcal{B} 54'02	2°01'08
min. Earth dist.	-11829 Oct 06 j 20:58	23° \mathcal{Z} 42'02	4.24778 AU	min. Earth dist.	-11823 Mar 19 j 19:01	2° \mathcal{B} 54'03	4.19685 AU
direct	-11829 Dec 06 j 16:45	18° \mathcal{Z} 39'57			-11823 Apr 12 j 23:54	30° $\mathcal{R}\mathcal{I}$	
	-11828 Mar 10 j 17:25	0° \approx		direct	-11823 May 19 j 01:28	28° \mathcal{I} 01'04	
evening set	-11828 Apr 13 j 22:43	7° \approx 18'39			-11823 Jun 23 j 14:59	0° \mathcal{B}	
				evening set	-11823 Sep 18 j 20:01	16° \mathcal{B} 16'48	
conjunction	-11828 Apr 27 j 06:04	10° \approx 17'05	-0°25'11				
minimum elong	-11828 Apr 27 j 06:06	10° \approx 17'06	0°25'43	conjunction	-11823 Oct 01 j 14:19	19° \mathcal{B} 14'25	1°00'00
max. Earth dist.	-11828 Apr 26 j 12:12	10° \approx 07'05	6.28140 AU	minimum elong	-11823 Oct 01 j 14:24	19° \mathcal{B} 14'28	1°00'40
morning rise	-11828 May 10 j 10:10	13° \approx 13'45		max. Earth dist.	-11823 Oct 01 j 22:29	19° \mathcal{B} 19'10	6.15807 AU
	-11828 May 18 j 10:15	15° \approx		morning rise	-11823 Oct 14 j 11:46	22° \mathcal{B} 13'47	
	-11828 Aug 18 j 00:43	0° \mathcal{H}			-11823 Nov 18 j 14:19	0° \mathcal{Q}	
retrograde	-11828 Sep 08 j 09:35	0° \mathcal{H} 44'05		retrograde	-11822 Feb 21 j 17:45	11° \mathcal{Q} 36'20	
	-11828 Sep 29 j 17:43	30° $\mathcal{R}\approx$		opposition	-11822 Apr 23 j 22:06	6° \mathcal{Q} 35'03	0°47'21
asc. node	-11828 Oct 18 j 17:50	28° \approx 15'13		min. Earth dist.	-11822 Apr 23 j 10:34	6° \mathcal{Q} 38'51	4.12346 AU
opposition	-11828 Nov 07 j 03:14	25° \approx 50'37	0°04'11	direct	-11822 Jun 21 j 23:19	1° \mathcal{Q} 41'47	
min. Earth dist.	-11828 Nov 07 j 18:25	25° \approx 45'40	4.30864 AU		-11822 Sep 29 j 15:09	15° \mathcal{Q}	
direct	-11827 Jan 08 j 05:35	20° \approx 47'44		evening set	-11822 Oct 22 j 20:38	20° \mathcal{Q} 16'55	
	-11827 Apr 03 j 00:32	0° \mathcal{H}					
evening set	-11827 May 16 j 14:48	9° \mathcal{H} 05'32		conjunction	-11822 Nov 05 j 01:53	23° \mathcal{Q} 22'10	0°01'42
				minimum elong	-11822 Nov 05 j 01:51	23° \mathcal{Q} 22'09	0°02'07
conjunction	-11827 May 29 j 13:16	11° \mathcal{H} 58'23	0°32'04	behind sun begin	-11822 Nov 04 j 17:38	23° \mathcal{Q} 17'22	
minimum elong	-11827 May 29 j 13:13	11° \mathcal{H} 58'22	0°31'49	behind sun end	-11822 Nov 05 j 10:05	23° \mathcal{Q} 26'57	
max. Earth dist.	-11827 May 28 j 12:44	11° \mathcal{H} 44'41	6.32710 AU	max. Earth dist.	-11822 Nov 06 j 00:06	23° \mathcal{Q} 35'10	6.09548 AU
morning rise	-11827 Jun 11 j 08:17	14° \mathcal{H} 49'33		desc. node	-11822 Nov 15 j 14:26	25° \mathcal{Q} 49'41	
	-11827 Sep 02 j 17:33	0° Υ		morning rise	-11822 Nov 18 j 10:44	26° \mathcal{Q} 29'22	
retrograde	-11827 Oct 10 j 03:00	2° Υ 08'38			-11822 Dec 03 j 18:25	0° \mathcal{H}	
	-11827 Nov 17 j 00:20	30° $\mathcal{R}\mathcal{H}$		retrograde	-11821 Mar 29 j 22:02	16° \mathcal{H} 18'35	
opposition	-11827 Dec 09 j 15:49	27° \mathcal{H} 16'44	1°23'46	opposition	-11821 May 29 j 06:32	11° \mathcal{H} 14'32	-0°45'02
min. Earth dist.	-11827 Dec 10 j 10:00	27° \mathcal{H} 10'55	4.33636 AU	min. Earth dist.	-11821 May 28 j 12:56	11° \mathcal{H} 20'27	4.07722 AU
direct	-11826 Feb 10 j 03:14	22° \mathcal{H} 16'32		direct	-11821 Jul 26 j 14:41	6° \mathcal{H} 19'01	
	-11826 Apr 27 j 21:14	0° Υ		evening set	-11821 Nov 27 j 17:52	25° \mathcal{H} 15'39	

Attention, astronomical year style is used: The year -11821 in astronomical counting style is the year 11822 BCE in historical counting style.

conjunction	-11821 Dec 11 j 07:26	28° \mathbb{M} 25'33	-0°58'15	max. Earth dist.	-11815 Jun 01 j 15:30	16° \mathbb{X} 02'51	6.32912 AU
minimum elong	-11821 Dec 11 j 07:20	28° \mathbb{M} 25'30	0°58'12	morning rise	-11815 Jun 15 j 13:03	19° \mathbb{X} 08'52	
max. Earth dist.	-11821 Dec 12 j 13:05	28° \mathbb{M} 42'53	6.06970 AU		-11815 Aug 07 j 20:24	0° \mathbb{Y}	
	-11821 Dec 18 j 01:09	0° \mathbb{L}		retrograde	-11815 Oct 14 j 12:09	6° \mathbb{Y} 28'59	
morning rise	-11821 Dec 24 j 23:47	1° \mathbb{L} 36'55		opposition	-11815 Dec 14 j 01:56	1° \mathbb{Y} 37'10	1°33'00
retrograde	-11820 May 03 j 18:54	21° \mathbb{L} 27'31		min. Earth dist.	-11815 Dec 14 j 21:39	1° \mathbb{Y} 30'52	4.33384 AU
opposition	-11820 Jul 02 j 08:14	16° \mathbb{L} 22'41	-2°01'59		-11815 Dec 26 j 23:59	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	-11820 Jul 01 j 13:50	16° \mathbb{L} 28'59	4.07561 AU	direct	-11814 Feb 14 j 13:37	26° \mathbb{X} 37'17	
direct	-11820 Aug 29 j 13:30	11° \mathbb{L} 23'55			-11814 Apr 04 j 11:15	0° \mathbb{Y}	
	-11820 Dec 31 j 06:35	0° \mathbb{M}		evening set	-11814 Jun 21 j 09:18	14° \mathbb{Y} 41'19	
evening set	-11819 Jan 02 j 19:18	0° \mathbb{M} 34'54					
conjunction	-11819 Jan 16 j 12:04	3° \mathbb{M} 45'00	-1°37'04	conjunction	-11814 Jul 03 j 21:47	17° \mathbb{Y} 29'43	1°24'08
minimum elong	-11819 Jan 16 j 11:59	3° \mathbb{M} 44'57	1°37'24	minimum elong	-11814 Jul 03 j 21:42	17° \mathbb{Y} 29'40	1°24'18
max. Earth dist.	-11819 Jan 17 j 12:23	3° \mathbb{M} 59'05	6.09075 AU	max. Earth dist.	-11814 Jul 02 j 20:27	17° \mathbb{Y} 15'28	6.32679 AU
morning rise	-11819 Jan 30 j 06:02	6° \mathbb{M} 55'35		morning rise	-11814 Jul 16 j 08:08	20° \mathbb{Y} 17'08	
	-11819 Mar 07 j 20:09	15° \mathbb{M}			-11814 Aug 31 j 22:35	0° \mathbb{X}	
retrograde	-11819 Jun 07 j 16:18	26° \mathbb{M} 19'59		retrograde	-11814 Nov 15 j 22:11	7° \mathbb{X} 52'49	
opposition	-11819 Aug 05 j 17:08	21° \mathbb{M} 16'44	-2°34'05	opposition	-11813 Jan 16 j 04:29	3° \mathbb{X} 00'26	2°23'27
min. Earth dist.	-11819 Aug 05 j 05:06	21° \mathbb{M} 20'51	4.11803 AU	min. Earth dist.	-11813 Jan 16 j 20:44	2° \mathbb{X} 55'17	4.31203 AU
direct	-11819 Oct 03 j 15:10	16° \mathbb{M} 14'41			-11813 Feb 10 j 18:36	30° \mathbb{R} \mathbb{Y}	
	-11818 Jan 15 j 08:16	0° \mathbb{X}		direct	-11813 Mar 19 j 07:22	28° \mathbb{Y} 03'44	
evening set	-11818 Feb 08 j 18:00	5° \mathbb{X} 25'16			-11813 Apr 24 j 14:07	0° \mathbb{X}	
				evening set	-11813 Jul 17 j 16:30	15° \mathbb{X}	
conjunction	-11818 Feb 22 j 10:29	8° \mathbb{X} 32'33	-1°40'39		-11813 Jul 22 j 12:00	16° \mathbb{X} 04'53	
minimum elong	-11818 Feb 22 j 10:31	8° \mathbb{X} 32'35	1°41'15	conjunction	-11813 Aug 03 j 20:06	18° \mathbb{X} 52'47	1°44'34
max. Earth dist.	-11818 Feb 22 j 22:31	8° \mathbb{X} 39'26	6.14999 AU	minimum elong	-11813 Aug 03 j 20:05	18° \mathbb{X} 52'46	1°45'04
morning rise	-11818 Mar 08 j 01:45	11° \mathbb{X} 39'09		max. Earth dist.	-11813 Aug 03 j 01:46	18° \mathbb{X} 42'22	6.28600 AU
	-11818 Jun 27 j 09:22	0° \mathbb{Z}		morning rise	-11813 Aug 16 j 04:07	21° \mathbb{X} 40'44	
retrograde	-11818 Jul 11 j 08:06	0° \mathbb{Z} 19'30			-11813 Sep 23 j 22:07	0° \mathbb{I}	
	-11818 Jul 25 j 04:43	30° \mathbb{R} \mathbb{X}		retrograde	-11813 Dec 19 j 11:35	9° \mathbb{I} 49'20	
opposition	-11818 Sep 08 j 05:25	25° \mathbb{X} 19'40	-2°12'01	opposition	-11812 Feb 19 j 01:47	4° \mathbb{I} 54'37	2°31'55
min. Earth dist.	-11818 Sep 08 j 03:26	25° \mathbb{X} 20'21	4.18806 AU	min. Earth dist.	-11812 Feb 19 j 10:37	4° \mathbb{I} 51'48	4.25555 AU
direct	-11818 Nov 07 j 06:51	20° \mathbb{X} 15'40		direct	-11812 Apr 20 j 07:52	0° \mathbb{I} 00'28	
	-11817 Feb 01 j 03:14	0° \mathbb{Z}		evening set	-11812 Aug 21 j 23:28	18° \mathbb{I} 07'03	
evening set	-11817 Mar 16 j 10:45	9° \mathbb{Z} 11'23					
conjunction	-11817 Mar 29 j 23:40	12° \mathbb{Z} 14'14	-1°09'50	conjunction	-11812 Sep 03 j 10:27	20° \mathbb{I} 58'51	1°33'41
minimum elong	-11817 Mar 29 j 23:46	12° \mathbb{Z} 14'18	1°10'30	minimum elong	-11812 Sep 03 j 10:32	20° \mathbb{I} 58'53	1°34'20
max. Earth dist.	-11817 Mar 29 j 17:18	12° \mathbb{Z} 10'39	6.22544 AU	max. Earth dist.	-11812 Sep 03 j 06:13	20° \mathbb{I} 56'24	6.21835 AU
morning rise	-11817 Apr 12 j 10:04	15° \mathbb{Z} 15'39		morning rise	-11812 Sep 15 j 23:07	23° \mathbb{I} 51'39	
	-11817 Jun 28 j 11:19	0° \mathbb{A}			-11812 Oct 13 j 14:42	0° \mathbb{E}	
retrograde	-11817 Aug 12 j 19:44	3° \mathbb{A} 11'49		retrograde	-11811 Jan 22 j 04:04	12° \mathbb{E} 41'35	
	-11817 Sep 27 j 15:36	30° \mathbb{R} \mathbb{Z}		opposition	-11811 Mar 24 j 17:56	7° \mathbb{E} 43'25	1°52'45
opposition	-11817 Oct 11 j 00:55	28° \mathbb{Z} 15'44	-1°07'41	min. Earth dist.	-11811 Mar 24 j 15:03	7° \mathbb{E} 44'21	4.18127 AU
min. Earth dist.	-11817 Oct 11 j 09:32	28° \mathbb{Z} 12'53	4.26135 AU	direct	-11811 May 23 j 18:49	2° \mathbb{E} 50'34	
direct	-11817 Dec 11 j 07:51	23° \mathbb{Z} 11'32		evening set	-11811 Sep 23 j 13:53	21° \mathbb{E} 10'03	
	-11816 Feb 20 j 07:33	0° \mathbb{A}					
evening set	-11816 Apr 18 j 10:24	11° \mathbb{A} 45'58		conjunction	-11811 Oct 06 j 09:44	24° \mathbb{E} 08'56	0°52'33
				minimum elong	-11811 Oct 06 j 09:49	24° \mathbb{E} 08'59	0°53'11
conjunction	-11816 May 01 j 16:47	14° \mathbb{A} 43'32	-0°17'27	max. Earth dist.	-11811 Oct 06 j 20:53	24° \mathbb{E} 15'26	6.14468 AU
minimum elong	-11816 May 01 j 16:48	14° \mathbb{A} 43'33	0°17'58	morning rise	-11811 Oct 19 j 08:51	27° \mathbb{E} 09'38	
max. Earth dist.	-11816 Apr 30 j 21:47	14° \mathbb{A} 32'55	6.29193 AU		-11811 Oct 31 j 18:44	0° \mathbb{O}	
	-11816 May 02 j 22:12	15° \mathbb{A}			-11810 Jan 25 j 03:23	15° \mathbb{O}	
morning rise	-11816 May 14 j 19:33	17° \mathbb{A} 39'17		retrograde	-11810 Feb 26 j 22:16	16° \mathbb{O} 37'55	
	-11816 Jul 15 j 20:38	0° \mathbb{X}			-11810 Mar 31 j 13:11	15° \mathbb{R} \mathbb{O}	
asc. node	-11816 Aug 30 j 16:13	4° \mathbb{X} 49'53		opposition	-11810 Apr 28 j 23:33	11° \mathbb{O} 36'04	0°34'30
retrograde	-11816 Sep 12 j 15:48	5° \mathbb{X} 06'15		min. Earth dist.	-11810 Apr 28 j 10:42	11° \mathbb{O} 40'18	4.11319 AU
opposition	-11816 Nov 11 j 12:05	0° \mathbb{X} 13'08	0°15'35	direct	-11810 Jun 26 j 22:26	6° \mathbb{O} 42'31	
min. Earth dist.	-11816 Nov 12 j 04:17	0° \mathbb{X} 07'53	4.31525 AU		-11810 Sep 10 j 08:23	15° \mathbb{O}	
	-11816 Nov 13 j 04:33	30° \mathbb{R} \mathbb{A}		desc. node	-11810 Sep 23 j 20:53	17° \mathbb{O} 44'08	
direct	-11815 Jan 12 j 16:00	25° \mathbb{A} 10'33		evening set	-11810 Oct 27 j 21:19	25° \mathbb{O} 20'52	
	-11815 Mar 12 j 21:13	0° \mathbb{X}					
evening set	-11815 May 20 j 22:00	13° \mathbb{X} 26'03		conjunction	-11810 Nov 10 j 04:03	28° \mathbb{O} 27'01	-0°07'27
				minimum elong	-11810 Nov 10 j 04:01	28° \mathbb{O} 27'00	0°07'04
conjunction	-11815 Jun 02 j 19:02	16° \mathbb{X} 18'15	0°39'18	behind sun begin	-11810 Nov 09 j 20:24	28° \mathbb{O} 22'34	
minimum elong	-11815 Jun 02 j 18:59	16° \mathbb{X} 18'13	0°39'07	behind sun end	-11810 Nov 10 j 11:38	28° \mathbb{O} 31'26	
				max. Earth dist.	-11810 Nov 11 j 05:10	28° \mathbb{O} 41'43	6.08916 AU

Attention, astronomical year style is used: The year -11810 in astronomical counting style is the year 11811 BCE in historical counting style.

	-11810 Nov 16 j 19:02	0°♎			-11804 Jun 25 j 00:40	0°♐	
morning rise	-11810 Nov 23 j 14:19	1°♎35'06		asc. node	-11804 Jul 10 j 03:24	2°♐49'44	
retrograde	-11809 Apr 04 j 01:42	21°♎25'46		retrograde	-11804 Sep 17 j 02:49	9°♐37'56	
opposition	-11809 Jun 03 j 07:40	16°♎21'22 -0°57'49		opposition	-11804 Nov 16 j 01:14	4°♐45'07 0°27'19	
min. Earth dist.	-11809 Jun 02 j 12:53	16°♎27'43 4.07542 AU		min. Earth dist.	-11804 Nov 16 j 18:30	4°♐39'31 4.31923 AU	
direct	-11809 Jul 31 j 13:46	11°♎25'26			-11803 Jan 03 j 14:39	30°♐	
	-11809 Dec 01 j 06:16	0°♏		direct	-11803 Jan 17 j 06:37	29°♐42'50	
evening set	-11809 Dec 02 j 23:32	0°♏23'54			-11803 Jan 31 j 01:12	0°♐	
				evening set	-11803 May 25 j 09:17	17°♐56'48	
conjunction	-11809 Dec 16 j 13:40	3°♏33'56 -1°05'32		max. Earth dist.	-11803 Jun 06 j 02:28	20°♐33'30 6.33004 AU	
minimum elong	-11809 Dec 16 j 13:33	3°♏33'52 1°05'33					
max. Earth dist.	-11809 Dec 17 j 18:36	3°♏50'49 6.07190 AU		conjunction	-11803 Jun 07 j 05:09	20°♐48'26 0°46'39	
morning rise	-11809 Dec 30 j 06:36	6°♏45'20		minimum elong	-11803 Jun 07 j 05:05	20°♐48'23 0°46'30	
retrograde	-11808 May 08 j 18:28	26°♏32'51		morning rise	-11803 Jun 19 j 21:50	23°♐38'30	
opposition	-11808 Jul 07 j 06:35	21°♏28'01 -2°09'43			-11803 Jul 19 j 12:05	0°♑	
min. Earth dist.	-11808 Jul 06 j 12:40	21°♏34'09 4.08150 AU		retrograde	-11803 Oct 19 j 00:39	11°♑00'01	
direct	-11808 Sep 03 j 13:54	16°♏28'42		opposition	-11803 Dec 18 j 16:48	6°♑08'18 1°42'09	
	-11808 Dec 13 j 20:37	0°♒		min. Earth dist.	-11803 Dec 19 j 12:13	6°♑02'07 4.33187 AU	
evening set	-11807 Jan 08 j 01:33	5°♒39'37		direct	-11802 Feb 19 j 03:49	1°♑08'58	
				evening set	-11802 Jun 25 j 18:57	19°♑12'41	
conjunction	-11807 Jan 21 j 18:33	8°♒49'21 -1°39'51		max. Earth dist.	-11802 Jul 07 j 04:30	21°♑46'16 6.32194 AU	
minimum elong	-11807 Jan 21 j 18:29	8°♒49'19 1°40'15					
max. Earth dist.	-11807 Jan 22 j 18:52	9°♒03'25 6.09959 AU		conjunction	-11802 Jul 08 j 06:22	22°♑00'49 1°28'43	
morning rise	-11807 Feb 04 j 12:06	11°♒59'20		minimum elong	-11802 Jul 08 j 06:16	22°♑00'47 1°28'55	
	-11807 Feb 17 j 18:32	15°♒		morning rise	-11802 Jul 20 j 16:10	24°♑48'10	
	-11807 May 15 j 09:12	0°♑			-11802 Aug 13 j 11:25	0°♑	
retrograde	-11807 Jun 12 j 12:40	1°♑17'20		retrograde	-11802 Nov 20 j 15:01	12°♑28'07	
	-11807 Jul 10 j 08:09	30°♑		opposition	-11801 Jan 20 j 22:19	7°♑35'32 2°27'26	
opposition	-11807 Aug 10 j 11:44	26°♒14'31 -2°34'09		min. Earth dist.	-11801 Jan 21 j 13:56	7°♑30'35 4.30495 AU	
min. Earth dist.	-11807 Aug 10 j 01:15	26°♒18'07 4.12896 AU		direct	-11801 Mar 23 j 23:02	2°♑39'17	
direct	-11807 Oct 08 j 13:18	21°♒12'08			-11801 Jul 01 j 00:42	15°♑	
	-11807 Dec 27 j 05:43	0°♑		evening set	-11801 Jul 26 j 22:08	20°♑41'07	
evening set	-11806 Feb 13 j 20:38	10°♑20'34					
				conjunction	-11801 Aug 08 j 06:21	23°♑29'21 1°44'59	
conjunction	-11806 Feb 27 j 12:39	13°♑27'12 -1°38'11		minimum elong	-11801 Aug 08 j 06:21	23°♑29'21 1°45'30	
minimum elong	-11806 Feb 27 j 12:42	13°♑27'13 1°38'49		max. Earth dist.	-11801 Aug 07 j 15:04	23°♑20'39 6.27745 AU	
max. Earth dist.	-11806 Feb 27 j 20:55	13°♑31'54 6.16191 AU		morning rise	-11801 Aug 20 j 14:28	26°♑17'43	
morning rise	-11806 Mar 13 j 03:29	16°♑33'04			-11801 Sep 06 j 05:18	0°♒	
	-11806 May 18 j 17:45	0°♑		retrograde	-11801 Dec 24 j 06:48	14°♒31'48	
retrograde	-11806 Jul 15 j 22:19	5°♑06'21		opposition	-11800 Feb 23 j 22:21	9°♒36'43 2°29'13	
opposition	-11806 Sep 12 j 20:47	0°♑07'03 -2°05'04		min. Earth dist.	-11800 Feb 24 j 04:59	9°♒34'37 4.24639 AU	
min. Earth dist.	-11806 Sep 12 j 20:21	0°♑07'12 4.19990 AU		direct	-11800 Apr 25 j 00:30	4°♒42'57	
	-11806 Sep 13 j 17:38	30°♑		evening set	-11800 Aug 26 j 12:20	22°♒50'38	
direct	-11806 Nov 12 j 02:38	25°♑02'53					
	-11805 Jan 09 j 20:39	0°♑		conjunction	-11800 Sep 08 j 00:08	25°♒43'11 1°29'33	
evening set	-11805 Mar 21 j 07:20	13°♑55'30		minimum elong	-11800 Sep 08 j 00:13	25°♒43'14 1°30'13	
				max. Earth dist.	-11800 Sep 07 j 21:43	25°♒41'47 6.20942 AU	
conjunction	-11805 Apr 03 j 19:36	16°♑57'38 -1°03'25		morning rise	-11800 Sep 20 j 14:03	28°♒36'55	
minimum elong	-11805 Apr 03 j 19:42	16°♑57'41 1°04'04			-11800 Sep 26 j 15:48	0°♑	
max. Earth dist.	-11805 Apr 03 j 11:36	16°♑53'08 6.23652 AU		retrograde	-11799 Jan 27 j 03:52	17°♑32'00	
morning rise	-11805 Apr 17 j 04:58	19°♑58'13		opposition	-11799 Mar 29 j 16:32	12°♑33'17 1°43'39	
	-11805 Jun 04 j 04:41	0°♑		min. Earth dist.	-11799 Mar 29 j 12:03	12°♑34'43 4.17306 AU	
retrograde	-11805 Aug 17 j 08:07	7°♑49'06		direct	-11799 May 28 j 14:21	7°♑40'25	
opposition	-11805 Oct 15 j 14:17	2°♑53'34 -0°56'35		evening set	-11799 Sep 28 j 06:49	26°♑01'17	
min. Earth dist.	-11805 Oct 16 j 00:32	2°♑50'11 4.27063 AU					
	-11805 Nov 07 j 22:33	30°♑		conjunction	-11799 Oct 11 j 04:15	29°♑01'08 0°44'52	
direct	-11805 Dec 16 j 00:46	27°♑49'33		minimum elong	-11799 Oct 11 j 04:19	29°♑01'11 0°45'28	
	-11804 Jan 23 j 11:22	0°♑		max. Earth dist.	-11799 Oct 11 j 18:32	29°♑09'27 6.13813 AU	
	-11804 Apr 16 j 22:36	15°♑			-11799 Oct 15 j 09:19	0°♒	
evening set	-11804 Apr 23 j 01:37	16°♑21'10		morning rise	-11799 Oct 24 j 04:55	2°♒02'51	
max. Earth dist.	-11804 May 05 j 09:00	19°♑05'50 6.29870 AU			-11799 Dec 25 j 05:18	15°♒	
				retrograde	-11798 Mar 03 j 23:19	21°♒34'13	
conjunction	-11804 May 06 j 06:46	19°♑17'59 -0°09'23		opposition	-11798 May 03 j 22:13	16°♒31'56 0°21'41	
minimum elong	-11804 May 06 j 06:47	19°♑18'00 0°09'52		min. Earth dist.	-11798 May 03 j 08:08	16°♒36'36 4.10881 AU	
behind sun begin	-11804 May 06 j 00:11	19°♑14'19			-11798 May 15 j 17:01	15°♒	
behind sun end	-11804 May 06 j 13:22	19°♑21'40		direct	-11798 Jul 01 j 17:47	11°♒38'10	
morning rise	-11804 May 19 j 08:29	22°♑13'01		desc. node	-11798 Aug 04 j 03:57	13°♒27'39	

Attention, astronomical year style is used: The year -11798 in astronomical counting style is the year 11799 BCE in historical counting style.

	-11798 Aug 16 j 18:36	15°♏		evening set	-11792 Apr 27 j 16:47	20°♊57'19	
	-11798 Oct 31 j 12:17	0°♍					
evening set	-11798 Nov 01 j 19:37	0°♍18'11		conjunction	-11792 May 10 j 20:45	23°♊53'30	-0°01'14
				minimum elong	-11792 May 10 j 20:47	23°♊53'31	0°01'39
conjunction	-11798 Nov 15 j 03:26	3°♍24'55	-0°16'09	behind sun begin	-11792 May 10 j 12:40	23°♊49'00	
minimum elong	-11798 Nov 15 j 03:24	3°♍24'54	0°15'49	behind sun end	-11792 May 11 j 04:53	23°♊58'02	
behind sun begin	-11798 Nov 15 j 02:16	3°♍24'15		max. Earth dist.	-11792 May 09 j 22:33	23°♊41'06	6.30258 AU
behind sun end	-11798 Nov 15 j 04:32	3°♍25'34		asc. node	-11792 May 19 j 01:53	25°♊43'41	
max. Earth dist.	-11798 Nov 16 j 04:25	3°♍39'32	6.08716 AU	morning rise	-11792 May 23 j 21:17	26°♊47'55	
morning rise	-11798 Nov 28 j 14:59	6°♍33'36			-11792 Jun 07 j 11:26	0°♋	
retrograde	-11797 Apr 08 j 23:59	26°♍24'20		retrograde	-11792 Sep 21 j 15:28	14°♋11'44	
min. Earth dist.	-11797 Jun 07 j 09:30	21°♍26'08	4.07592 AU	opposition	-11792 Nov 20 j 15:41	9°♋19'10	0°38'58
opposition	-11797 Jun 08 j 04:32	21°♍19'41	-1°09'44	min. Earth dist.	-11792 Nov 21 j 09:37	9°♋13'23	4.32141 AU
direct	-11797 Aug 05 j 10:11	16°♍23'15		direct	-11791 Jan 21 j 23:16	4°♋17'18	
	-11797 Nov 14 j 07:25	0°♌		evening set	-11791 May 29 j 21:13	22°♋29'47	
evening set	-11797 Dec 08 j 01:34	5°♌23'17					
				conjunction	-11791 Jun 11 j 15:44	25°♋20'49	0°53'46
conjunction	-11797 Dec 21 j 16:28	8°♌33'26	-1°12'06	minimum elong	-11791 Jun 11 j 15:40	25°♋20'46	0°53'41
minimum elong	-11797 Dec 21 j 16:22	8°♌33'22	1°12'09	max. Earth dist.	-11791 Jun 10 j 12:26	25°♋05'33	6.33023 AU
max. Earth dist.	-11797 Dec 22 j 22:11	8°♌50'45	6.07479 AU	morning rise	-11791 Jun 24 j 07:22	28°♋10'24	
morning rise	-11796 Jan 04 j 09:37	11°♌44'46			-11791 Jul 02 j 13:42	0°♌	
	-11796 Apr 13 j 04:29	0°♍		retrograde	-11791 Oct 23 j 13:56	15°♌33'25	
retrograde	-11796 May 13 j 16:02	1°♍29'07		opposition	-11791 Dec 23 j 08:56	10°♌41'37	1°50'46
	-11796 Jun 12 j 17:56	30°♌30'05		min. Earth dist.	-11791 Dec 24 j 03:32	10°♌35'42	4.33033 AU
min. Earth dist.	-11796 Jul 11 j 08:35	26°♌30'05	4.08657 AU	direct	-11790 Feb 23 j 19:12	5°♌42'41	
opposition	-11796 Jul 12 j 00:58	26°♌24'29	-2°16'16	evening set	-11790 Jun 30 j 05:04	23°♌45'29	
direct	-11796 Sep 08 j 10:21	21°♌24'41					
	-11796 Nov 24 j 21:43	0°♍		conjunction	-11790 Jul 12 j 15:44	26°♌33'21	1°32'47
evening set	-11795 Jan 13 j 04:13	10°♍36'02		minimum elong	-11790 Jul 12 j 15:39	26°♌33'18	1°33'04
				max. Earth dist.	-11790 Jul 11 j 16:32	26°♌20'16	6.31866 AU
conjunction	-11795 Jan 26 j 21:09	13°♍45'28	-1°41'50	morning rise	-11790 Jul 25 j 00:45	29°♌20'30	
minimum elong	-11795 Jan 26 j 21:06	13°♍45'26	1°42'16		-11790 Jul 27 j 23:26	0°♎	
max. Earth dist.	-11795 Jan 27 j 18:08	13°♍57'34	6.10608 AU		-11790 Oct 19 j 03:09	15°♎	
	-11795 Feb 01 j 06:25	15°♍		retrograde	-11790 Nov 25 j 07:05	17°♎03'52	
morning rise	-11795 Feb 09 j 14:40	16°♍55'03			-11789 Jan 01 j 21:32	15°♎	
	-11795 Apr 13 j 17:46	0°♏		opposition	-11789 Jan 25 j 16:31	12°♎11'00	2°30'30
retrograde	-11795 Jun 17 j 04:29	6°♏07'50		min. Earth dist.	-11789 Jan 26 j 06:59	12°♎06'26	4.30013 AU
opposition	-11795 Aug 15 j 03:28	1°♏05'25	-2°33'10	direct	-11789 Mar 28 j 15:31	7°♎15'11	
min. Earth dist.	-11795 Aug 14 j 18:03	1°♏08'38	4.13633 AU		-11789 Jun 12 j 07:23	15°♎	
	-11795 Aug 23 j 04:23	30°♏		evening set	-11789 Jul 31 j 08:11	25°♎16'36	
direct	-11795 Oct 13 j 08:10	26°♏02'38					
	-11795 Dec 03 j 11:58	0°♏		conjunction	-11789 Aug 12 j 16:17	28°♏05'04	1°44'46
evening set	-11794 Feb 18 j 20:30	15°♏10'16		minimum elong	-11789 Aug 12 j 16:17	28°♏05'04	1°45'19
				max. Earth dist.	-11789 Aug 12 j 01:30	27°♏56'38	6.27115 AU
conjunction	-11794 Mar 04 j 12:17	18°♏16'28	-1°35'06		-11789 Aug 21 j 02:00	0°♐	
minimum elong	-11794 Mar 04 j 12:21	18°♏16'31	1°35'45	morning rise	-11789 Aug 25 j 00:53	0°♐53'51	
max. Earth dist.	-11794 Mar 04 j 18:15	18°♏19'53	6.16974 AU	retrograde	-11789 Dec 29 j 02:22	19°♐12'39	
morning rise	-11794 Mar 18 j 02:30	21°♏21'46		opposition	-11788 Feb 28 j 18:35	14°♐17'02	2°25'34
	-11794 Apr 27 j 05:05	0°♑		min. Earth dist.	-11788 Feb 28 j 23:34	14°♐15'27	4.23882 AU
retrograde	-11794 Jul 20 j 13:13	9°♑49'41		direct	-11788 Apr 29 j 17:17	9°♐23'26	
opposition	-11794 Sep 17 j 10:45	4°♑50'56	-1°57'25	evening set	-11788 Aug 31 j 00:24	27°♐31'43	
min. Earth dist.	-11794 Sep 17 j 12:37	4°♑50'18	4.20731 AU		-11788 Sep 10 j 17:56	0°♑	
	-11794 Nov 05 j 02:50	30°♑					
direct	-11794 Nov 16 j 20:45	29°♑46'41		conjunction	-11788 Sep 12 j 13:22	0°♑25'05	1°24'52
	-11794 Nov 28 j 15:56	0°♑		minimum elong	-11788 Sep 12 j 13:27	0°♑25'08	1°25'32
evening set	-11793 Mar 26 j 02:50	18°♑37'37		max. Earth dist.	-11788 Sep 12 j 14:13	0°♑25'34	6.20132 AU
				morning rise	-11788 Sep 25 j 04:22	3°♑19'41	
conjunction	-11793 Apr 08 j 14:27	21°♑39'14	-0°56'38	retrograde	-11787 Feb 01 j 02:46	22°♑19'33	
minimum elong	-11793 Apr 08 j 14:32	21°♑39'17	0°57'16	opposition	-11787 Apr 03 j 14:04	17°♑20'22	1°33'56
max. Earth dist.	-11793 Apr 08 j 04:03	21°♑33'23	6.24310 AU	min. Earth dist.	-11787 Apr 03 j 08:29	17°♑22'10	4.16492 AU
morning rise	-11793 Apr 21 j 23:00	24°♑39'15		direct	-11787 Jun 02 j 08:05	12°♑27'31	
	-11793 May 16 j 11:06	0°♒			-11787 Sep 29 j 08:51	0°♒	
retrograde	-11793 Aug 21 j 19:04	12°♒26'25		evening set	-11787 Oct 02 j 23:44	0°♒50'10	
opposition	-11793 Oct 20 j 03:45	7°♒31'18	-0°45'10				
min. Earth dist.	-11793 Oct 20 j 14:36	7°♒27'43	4.27593 AU	conjunction	-11787 Oct 15 j 22:28	3°♒50'58	0°36'57
direct	-11793 Dec 20 j 16:27	2°♒27'25		minimum elong	-11787 Oct 15 j 22:32	3°♒51'01	0°37'31
	-11792 Mar 31 j 00:55	15°♒		max. Earth dist.	-11787 Oct 16 j 13:05	3°♒59'30	6.13070 AU

Attention, astronomical year style is used: The year -11787 in astronomical counting style is the year 11788 BCE in historical counting style.

morning rise	-11787 Oct 29 j 00:51	6°Ω53'44		opposition	-11781 Oct 24 j 19:15	12°≈13'20	-0°33'19
	-11787 Dec 04 j 14:53	15°Ω		min. Earth dist.	-11781 Oct 25 j 07:41	12°≈09'15	4.28299 AU
retrograde	-11786 Mar 08 j 22:31	26°Ω28'41		direct	-11781 Dec 25 j 12:02	7°≈09'43	
opposition	-11786 May 08 j 19:57	21°Ω25'56	0°08'47		-11780 Mar 11 j 15:22	15°≈	
min. Earth dist.	-11786 May 08 j 04:38	21°Ω31'02	4.10262 AU	asc. node	-11780 Mar 27 j 17:32	18°≈02'56	
desc. node	-11786 Jun 15 j 00:54	17°Ω18'15		evening set	-11780 May 02 j 08:57	25°≈37'02	
direct	-11786 Jul 06 j 12:39	16°Ω31'51					
	-11786 Oct 14 j 16:57	0°♐		conjunction	-11780 May 15 j 11:45	28°≈32'29	0°07'07
evening set	-11786 Nov 06 j 18:09	5°♐14'41		minimum elong	-11780 May 15 j 11:44	28°≈32'29	0°06'44
				behind sun begin	-11780 May 15 j 04:12	28°≈28'17	
conjunction	-11786 Nov 20 j 03:22	8°♐22'10	-0°24'45	behind sun end	-11780 May 15 j 19:17	28°≈36'40	
minimum elong	-11786 Nov 20 j 03:19	8°♐22'08	0°24'28	max. Earth dist.	-11780 May 14 j 13:23	28°≈20'00	6.30864 AU
max. Earth dist.	-11786 Nov 21 j 06:27	8°♐38'00	6.08288 AU		-11780 May 22 j 00:21	0°♐	
morning rise	-11786 Dec 03 j 15:54	11°♐31'29		morning rise	-11780 May 28 j 10:57	1°♐26'07	
	-11785 Mar 15 j 08:11	0°♐		retrograde	-11780 Sep 26 j 02:57	18°♐48'15	
retrograde	-11785 Apr 14 j 00:59	1°♐23'09		opposition	-11780 Nov 25 j 07:07	13°♐55'52	0°50'26
	-11785 May 13 j 09:17	30°♐		min. Earth dist.	-11780 Nov 26 j 00:17	13°♐50'20	4.32625 AU
min. Earth dist.	-11785 Jun 12 j 07:30	26°♐24'36	4.07406 AU	direct	-11779 Jan 26 j 15:31	8°♐54'23	
opposition	-11785 Jun 13 j 01:44	26°♐18'25	-1°21'12	evening set	-11779 Jun 03 j 09:23	27°♐04'24	
direct	-11785 Aug 10 j 07:00	21°♐21'34		max. Earth dist.	-11779 Jun 15 j 00:10	29°♐39'57	6.33345 AU
	-11785 Oct 26 j 09:05	0°♐					
evening set	-11785 Dec 13 j 04:51	10°♐24'15		conjunction	-11779 Jun 16 j 02:32	29°♐54'42	1°00'34
				minimum elong	-11779 Jun 16 j 02:26	29°♐54'39	1°00'31
conjunction	-11785 Dec 26 j 20:09	13°♐34'33	-1°18'11		-11779 Jun 16 j 12:00	0°♐	
minimum elong	-11785 Dec 26 j 20:02	13°♐34'29	1°18'18	morning rise	-11779 Jun 28 j 16:55	2°♐43'37	
max. Earth dist.	-11785 Dec 27 j 23:49	13°♐50'40	6.07517 AU	retrograde	-11779 Oct 28 j 03:52	20°♐07'18	
morning rise	-11784 Jan 09 j 13:48	16°♐45'59		opposition	-11779 Dec 28 j 01:19	15°♐15'29	1°58'37
	-11784 Mar 12 j 18:56	0°♐		min. Earth dist.	-11779 Dec 28 j 19:58	15°♐09'33	4.33172 AU
retrograde	-11784 May 18 j 12:46	6°♐28'02		direct	-11778 Feb 28 j 12:21	10°♐17'00	
opposition	-11784 Jul 16 j 20:18	1°♐23'35	-2°21'55	evening set	-11778 Jul 04 j 14:26	28°♐17'45	
min. Earth dist.	-11784 Jul 16 j 04:03	1°♐29'10	4.08939 AU		-11778 Jul 12 j 04:28	0°♐	
	-11784 Jul 27 j 03:46	30°♐		max. Earth dist.	-11778 Jul 16 j 01:09	0°♐52'15	6.31779 AU
direct	-11784 Sep 13 j 06:52	26°♐23'19					
	-11784 Oct 31 j 07:16	0°♐		conjunction	-11778 Jul 17 j 00:13	1°♐05'16	1°36'15
	-11783 Jan 15 j 17:33	15°♐		minimum elong	-11778 Jul 17 j 00:09	1°♐05'13	1°36'34
evening set	-11783 Jan 18 j 08:37	15°♐36'02		morning rise	-11778 Jul 29 j 08:48	3°♐52'13	
					-11778 Sep 21 j 15:49	15°♐	
conjunction	-11783 Feb 01 j 01:38	18°♐45'16	-1°43'07	retrograde	-11778 Nov 29 j 21:55	21°♐38'22	
minimum elong	-11783 Feb 01 j 01:36	18°♐45'15	1°43'35	opposition	-11777 Jan 30 j 09:57	16°♐45'09	2°32'34
max. Earth dist.	-11783 Feb 01 j 20:58	18°♐56'24	6.11098 AU	min. Earth dist.	-11777 Jan 30 j 22:47	16°♐41'06	4.29711 AU
morning rise	-11783 Feb 14 j 18:49	21°♐54'29			-11777 Feb 13 j 13:57	15°♐	
	-11783 Mar 23 j 15:51	0°♐		direct	-11777 Apr 02 j 06:03	11°♐49'38	
retrograde	-11783 Jun 22 j 00:17	11°♐02'32			-11777 May 18 j 21:44	15°♐	
opposition	-11783 Aug 19 j 20:58	6°♐00'36	-2°31'07	evening set	-11777 Aug 04 j 17:01	29°♐50'07	
min. Earth dist.	-11783 Aug 19 j 13:51	6°♐03'02	4.14270 AU		-11777 Aug 05 j 10:28	0°♐	
direct	-11783 Oct 18 j 05:37	0°♐57'32					
evening set	-11782 Feb 23 j 22:10	20°♐04'34		conjunction	-11777 Aug 17 j 01:24	2°♐38'51	1°43'53
				minimum elong	-11777 Aug 17 j 01:25	2°♐38'52	1°44'27
conjunction	-11782 Mar 09 j 13:41	23°♐10'23	-1°31'19	max. Earth dist.	-11777 Aug 16 j 13:30	2°♐32'03	6.26617 AU
minimum elong	-11782 Mar 09 j 13:46	23°♐10'26	1°31'59	morning rise	-11777 Aug 29 j 10:15	5°♐28'00	
max. Earth dist.	-11782 Mar 09 j 17:46	23°♐12'43	6.17708 AU	retrograde	-11776 Jan 02 j 21:18	23°♐50'57	
morning rise	-11782 Mar 23 j 03:19	26°♐15'09		opposition	-11776 Mar 04 j 13:16	18°♐54'56	2°20'59
	-11782 Apr 08 j 23:18	0°♐		min. Earth dist.	-11776 Mar 04 j 17:44	18°♐53'30	4.23203 AU
retrograde	-11782 Jul 25 j 03:21	14°♐37'48		direct	-11776 May 04 j 09:06	14°♐01'30	
opposition	-11782 Sep 22 j 02:43	9°♐39'36	-1°48'53		-11776 Aug 25 j 22:44	0°♐	
min. Earth dist.	-11782 Sep 22 j 05:00	9°♐38'51	4.21497 AU	evening set	-11776 Sep 04 j 11:34	2°♐10'19	
direct	-11782 Nov 21 j 15:20	4°♐35'20					
evening set	-11781 Mar 30 j 23:51	23°♐24'21		conjunction	-11776 Sep 17 j 01:28	5°♐04'28	1°19'41
				minimum elong	-11776 Sep 17 j 01:34	5°♐04'31	1°20'21
conjunction	-11781 Apr 13 j 10:31	26°♐25'20	-0°49'23	max. Earth dist.	-11776 Sep 17 j 02:26	5°♐05'01	6.19331 AU
minimum elong	-11781 Apr 13 j 10:36	26°♐25'22	0°50'00	morning rise	-11776 Sep 29 j 17:58	8°♐00'03	
max. Earth dist.	-11781 Apr 12 j 22:05	26°♐18'20	6.25079 AU	retrograde	-11775 Feb 05 j 23:22	27°♐04'40	
morning rise	-11781 Apr 26 j 18:11	29°♐24'40		opposition	-11775 Apr 08 j 09:55	22°♐04'55	1°23'41
	-11781 Apr 29 j 09:36	0°≈		min. Earth dist.	-11775 Apr 08 j 02:38	22°♐07'17	4.15606 AU
	-11781 Jul 20 j 15:03	15°≈		direct	-11775 Jun 06 j 23:30	17°♐11'57	
retrograde	-11781 Aug 26 j 09:33	17°≈07'58			-11775 Sep 12 j 19:29	0°♐	
	-11781 Oct 02 j 07:15	15°≈		evening set	-11775 Oct 07 j 15:38	5°♐36'56	

Attention, astronomical year style is used: The year -11775 in astronomical counting style is the year 11776 BCE in historical counting style.

conjunction	-11775 Oct 20 j 16:03	8°Ω38'49	0°28'51			-11769 Jun 23 j 09:59	15°≈	
minimum elong	-11775 Oct 20 j 16:06	8°Ω38'51	0°29'24	retrograde		-11769 Aug 30 j 20:32	21°≈46'12	
max. Earth dist.	-11775 Oct 21 j 09:19	8°Ω48'53	6.12203 AU	opposition		-11769 Oct 29 j 09:48	16°≈51'55	-0°21'20
morning rise	-11775 Nov 02 j 19:51	11°Ω42'38		min. Earth dist.		-11769 Oct 29 j 22:07	16°≈47'53	4.29208 AU
	-11775 Nov 17 j 05:00	15°Ω				-11769 Nov 12 j 23:53	15°≈	
	-11774 Feb 12 j 05:26	0°Π		direct		-11769 Dec 30 j 04:56	11°≈48'30	
retrograde	-11774 Mar 13 j 22:57	1°Π21'33		asc. node		-11768 Feb 05 j 03:39	13°≈48'11	
	-11774 Apr 12 j 09:57	30°≈				-11768 Feb 15 j 12:21	15°≈	
desc. node	-11774 Apr 26 j 10:58	28°Ω31'20		evening set		-11768 May 06 j 23:25	0°≈12'30	
opposition	-11774 May 13 j 16:48	26°Ω18'28	-0°04'04			-11768 May 06 j 00:50	0°≈	
min. Earth dist.	-11774 May 13 j 01:51	26°Ω23'27	4.09482 AU	max. Earth dist.		-11768 May 19 j 00:31	2°≈53'32	6.31577 AU
direct	-11774 Jul 11 j 07:22	21°Ω24'05						
	-11774 Sep 26 j 03:02	0°Π		conjunction		-11768 May 20 j 00:44	3°≈07'04	0°15'13
evening set	-11774 Nov 11 j 16:53	10°Π10'34		minimum elong		-11768 May 20 j 00:43	3°≈07'03	0°14'53
				behind sun begin		-11768 May 19 j 21:35	3°≈05'19	
conjunction	-11774 Nov 25 j 03:08	13°Π18'48	-0°33'06	behind sun end		-11768 May 20 j 03:51	3°≈08'47	
minimum elong	-11774 Nov 25 j 03:05	13°Π18'46	0°32'52	morning rise		-11768 Jun 01 j 22:46	5°≈59'54	
max. Earth dist.	-11774 Nov 26 j 05:18	13°Π34'06	6.07664 AU	retrograde		-11768 Sep 30 j 15:44	23°≈20'24	
morning rise	-11774 Dec 08 j 16:57	16°Π28'52		opposition		-11768 Nov 29 j 21:39	18°≈28'13	1°01'30
	-11773 Feb 11 j 07:26	0°Ω		min. Earth dist.		-11768 Nov 30 j 16:15	18°≈22'14	4.33074 AU
retrograde	-11773 Apr 18 j 23:47	6°Ω22'01		direct		-11767 Jan 31 j 08:37	13°≈27'05	
opposition	-11773 Jun 17 j 22:20	1°Ω17'12	-1°32'01			-11767 May 31 j 15:53	0°≈	
min. Earth dist.	-11773 Jun 17 j 03:21	1°Ω23'39	4.07027 AU	evening set		-11767 Jun 07 j 19:40	1°≈34'51	
	-11773 Jun 27 j 12:22	30°≈		max. Earth dist.		-11767 Jun 19 j 09:22	4°≈09'50	6.33465 AU
direct	-11773 Aug 15 j 02:22	26°Π19'52						
	-11773 Oct 02 j 03:13	0°Ω		conjunction		-11767 Jun 20 j 11:38	4°≈24'32	1°06'57
evening set	-11773 Dec 18 j 08:50	15°Ω26'06		minimum elong		-11767 Jun 20 j 11:33	4°≈24'29	1°06'59
				morning rise		-11767 Jul 03 j 00:53	7°≈12'56	
conjunction	-11772 Jan 01 j 00:48	18°Ω36'41	-1°23'39	retrograde		-11767 Nov 01 j 16:01	24°≈38'22	
minimum elong	-11772 Jan 01 j 00:42	18°Ω36'37	1°23'50	opposition		-11766 Jan 01 j 16:49	19°≈46'26	2°05'48
max. Earth dist.	-11772 Jan 02 j 04:17	18°Ω52'41	6.07419 AU	min. Earth dist.		-11766 Jan 02 j 10:20	19°≈40'53	4.32975 AU
morning rise	-11772 Jan 14 j 18:38	21°Ω48'12		direct		-11766 Mar 05 j 01:39	14°≈48'23	
	-11772 Feb 20 j 18:17	0°Π				-11766 Jun 26 j 07:02	0°≈	
retrograde	-11772 May 23 j 12:01	11°Π28'17		evening set		-11766 Jul 08 j 23:18	2°≈48'32	
opposition	-11772 Jul 21 j 16:16	6°Π24'03	-2°26'29	max. Earth dist.		-11766 Jul 20 j 10:44	5°≈23'39	6.31263 AU
min. Earth dist.	-11772 Jul 21 j 01:40	6°Π29'04	4.09142 AU					
direct	-11772 Sep 18 j 05:26	1°Π23'20		conjunction		-11766 Jul 21 j 08:28	5°≈35'56	1°39'10
	-11772 Dec 29 j 10:06	15°Π		minimum elong		-11766 Jul 21 j 08:24	5°≈35'54	1°39'32
evening set	-11771 Jan 23 j 13:41	20°Π37'26		morning rise		-11766 Aug 02 j 16:35	8°≈22'54	
						-11766 Sep 02 j 05:39	15°≈	
conjunction	-11771 Feb 06 j 06:48	23°Π46'29	-1°43'35	retrograde		-11766 Dec 04 j 16:00	26°≈13'36	
minimum elong	-11771 Feb 06 j 06:47	23°Π46'28	1°44'06	opposition		-11765 Feb 04 j 04:01	21°≈20'08	2°33'50
max. Earth dist.	-11771 Feb 07 j 01:12	23°Π57'04	6.11586 AU	min. Earth dist.		-11765 Feb 04 j 16:59	21°≈16'02	4.28907 AU
morning rise	-11771 Feb 19 j 23:44	26°Π55'20		direct		-11765 Apr 06 j 22:03	16°≈24'58	
	-11771 Mar 05 j 14:30	0°≈				-11765 Jul 20 j 04:04	0°≈	
retrograde	-11771 Jun 26 j 18:07	15°≈58'18		evening set		-11765 Aug 09 j 03:01	4°≈26'24	
opposition	-11771 Aug 24 j 15:07	10°≈56'49	-2°27'55					
min. Earth dist.	-11771 Aug 24 j 08:04	10°≈59'13	4.15005 AU	conjunction		-11765 Aug 21 j 11:44	7°≈15'43	1°42'22
direct	-11771 Oct 23 j 02:01	5°≈53'30		minimum elong		-11765 Aug 21 j 11:45	7°≈15'44	1°42'59
evening set	-11770 Mar 01 j 00:05	24°≈59'09		max. Earth dist.		-11765 Aug 21 j 00:18	7°≈09'10	6.25580 AU
				morning rise		-11765 Sep 02 j 21:24	10°≈05'37	
conjunction	-11770 Mar 14 j 15:02	28°≈04'23	-1°26'51	retrograde		-11764 Jan 07 j 17:57	28°≈34'53	
minimum elong	-11770 Mar 14 j 15:07	28°≈04'26	1°27'30	opposition		-11764 Mar 09 j 10:18	23°≈38'21	2°15'30
max. Earth dist.	-11770 Mar 14 j 16:17	28°≈05'06	6.18638 AU	min. Earth dist.		-11764 Mar 09 j 12:29	23°≈37'39	4.22003 AU
	-11770 Mar 23 j 02:51	0°≈		direct		-11764 May 09 j 00:29	18°≈45'06	
morning rise	-11770 Mar 28 j 04:07	1°≈08'31				-11764 Aug 08 j 18:19	0°≈	
retrograde	-11770 Jul 29 j 19:11	19°≈25'07		evening set		-11764 Sep 09 j 01:37	6°≈56'23	
opposition	-11770 Sep 26 j 18:58	14°≈27'24	-1°39'34					
min. Earth dist.	-11770 Sep 26 j 23:14	14°≈25'58	4.22506 AU	conjunction		-11764 Sep 21 j 16:57	9°≈51'40	1°13'52
direct	-11770 Nov 26 j 12:50	9°≈23'04		minimum elong		-11764 Sep 21 j 17:02	9°≈51'43	1°14'31
evening set	-11769 Apr 04 j 19:58	28°≈08'51		max. Earth dist.		-11764 Sep 21 j 21:14	9°≈54'09	6.18089 AU
	-11769 Apr 13 j 02:46	0°≈		morning rise		-11764 Oct 04 j 10:47	12°≈48'26	
						-11763 Jan 05 j 13:42	0°≈	
conjunction	-11769 Apr 18 j 05:52	1°≈09'05	-0°41'49	retrograde		-11763 Feb 11 j 02:09	1°≈59'27	
minimum elong	-11769 Apr 18 j 05:56	1°≈09'07	0°42'25			-11763 Mar 19 j 12:49	30°≈	
max. Earth dist.	-11769 Apr 17 j 17:04	1°≈01'54	6.26092 AU	opposition		-11763 Apr 13 j 09:42	26°≈59'15	1°12'32
morning rise	-11769 May 01 j 12:20	4°≈07'34		min. Earth dist.		-11763 Apr 13 j 01:58	27°≈01'46	4.14408 AU

Attention, astronomical year style is used: The year -11763 in astronomical counting style is the year 11764 BCE in historical counting style.

direct	-11763 Jun 11 j 20:02	22° \mathfrak{C} 06'16		conjunction	-11757 Apr 22 j 19:08	5° \approx 40'16	-0°34'20
	-11763 Aug 24 j 13:25	0° \mathcal{O}		minimum elong	-11757 Apr 22 j 19:12	5° \approx 40'18	0°34'54
evening set	-11763 Oct 12 j 12:31	10° \mathcal{O} 34'51		max. Earth dist.	-11757 Apr 22 j 02:21	5° \approx 30'52	6.27442 AU
				morning rise	-11757 May 06 j 00:39	8° \approx 37'46	
conjunction	-11763 Oct 25 j 14:22	13° \mathcal{O} 37'53	0°20'15		-11757 Jun 04 j 14:06	15° \approx	
minimum elong	-11763 Oct 25 j 14:24	13° \mathcal{O} 37'54	0°20'46	retrograde	-11757 Sep 04 j 04:28	26° \approx 11'22	
max. Earth dist.	-11763 Oct 26 j 08:32	13° \mathcal{O} 48'29	6.11177 AU	opposition	-11757 Nov 02 j 19:21	21° \approx 17'27	-0°09'49
	-11763 Oct 31 j 11:01	15° \mathcal{O}		min. Earth dist.	-11757 Nov 03 j 10:12	21° \approx 12'35	4.30220 AU
morning rise	-11763 Nov 07 j 19:59	16° \mathcal{O} 42'55		asc. node	-11757 Dec 18 j 06:19	16° \approx 39'14	
	-11762 Jan 10 j 10:02	0° \mathfrak{M}		direct	-11756 Jan 03 j 18:45	16° \approx 14'09	
desc. node	-11762 Mar 05 j 16:23	6° \mathfrak{M} 08'55			-11756 Apr 20 j 05:16	0° \mathfrak{H}	
retrograde	-11762 Mar 19 j 01:38	6° \mathfrak{M} 26'02		evening set	-11756 May 11 j 08:00	4° \mathfrak{H} 34'46	
opposition	-11762 May 18 j 17:38	1° \mathfrak{M} 22'39	-0°17'24	max. Earth dist.	-11756 May 23 j 07:18	7° \mathfrak{H} 14'39	6.32169 AU
min. Earth dist.	-11762 May 18 j 00:36	1° \mathfrak{M} 28'20	4.08756 AU				
	-11762 May 29 j 04:42	30° \mathfrak{R} \mathcal{O}		conjunction	-11756 May 24 j 08:12	7° \mathfrak{H} 28'33	0°22'51
direct	-11762 Jul 16 j 04:40	26° \mathcal{O} 28'01		minimum elong	-11756 May 24 j 08:09	7° \mathfrak{H} 28'32	0°22'33
	-11762 Sep 01 j 07:13	0° \mathfrak{M}		morning rise	-11756 Jun 06 j 04:49	10° \mathfrak{H} 20'37	
evening set	-11762 Nov 16 j 20:32	15° \mathfrak{M} 18'06		retrograde	-11756 Oct 04 j 21:44	27° \mathfrak{H} 40'18	
				opposition	-11756 Dec 04 j 06:55	22° \mathfrak{H} 48'17	1°11'40
conjunction	-11762 Nov 30 j 08:00	18° \mathfrak{M} 27'00	-0°41'31	min. Earth dist.	-11756 Dec 05 j 01:43	22° \mathfrak{H} 42'15	4.33222 AU
minimum elong	-11762 Nov 30 j 07:55	18° \mathfrak{M} 26'57	0°41'20	direct	-11755 Feb 04 j 17:31	17° \mathfrak{H} 47'29	
max. Earth dist.	-11762 Dec 01 j 12:18	18° \mathfrak{M} 43'33	6.07327 AU		-11755 May 15 j 16:01	0° \mathfrak{Y}	
morning rise	-11762 Dec 13 j 22:38	21° \mathfrak{M} 37'35		evening set	-11755 Jun 12 j 01:31	5° \mathfrak{Y} 54'20	
	-11761 Jan 20 j 14:56	0° \mathfrak{L}					
retrograde	-11761 Apr 24 j 03:51	11° \mathfrak{L} 30'42		conjunction	-11755 Jun 24 j 16:15	8° \mathfrak{Y} 43'37	1°12'40
opposition	-11761 Jun 22 j 22:38	6° \mathfrak{L} 25'49	-1°42'27	minimum elong	-11755 Jun 24 j 16:10	8° \mathfrak{Y} 43'34	1°12'44
min. Earth dist.	-11761 Jun 22 j 04:03	6° \mathfrak{L} 32'09	4.07159 AU	max. Earth dist.	-11755 Jun 23 j 12:22	8° \mathfrak{Y} 27'59	6.33136 AU
direct	-11761 Aug 20 j 03:46	1° \mathfrak{L} 28'05		morning rise	-11755 Jul 07 j 04:42	11° \mathfrak{Y} 31'45	
evening set	-11761 Dec 23 j 15:57	20° \mathfrak{L} 35'40		retrograde	-11755 Nov 06 j 03:58	29° \mathfrak{Y} 00'39	
				opposition	-11754 Jan 06 j 04:56	24° \mathfrak{Y} 08'40	2°12'00
conjunction	-11760 Jan 06 j 08:16	23° \mathfrak{L} 46'05	-1°28'37	min. Earth dist.	-11754 Jan 06 j 23:42	24° \mathfrak{Y} 02'43	4.32204 AU
minimum elong	-11760 Jan 06 j 08:10	23° \mathfrak{L} 46'02	1°28'52	direct	-11754 Mar 09 j 12:56	19° \mathfrak{Y} 10'57	
max. Earth dist.	-11760 Jan 07 j 12:25	24° \mathfrak{L} 02'27	6.08015 AU		-11754 Jun 09 j 18:11	0° \mathfrak{B}	
morning rise	-11760 Jan 20 j 02:10	26° \mathfrak{L} 57'18		evening set	-11754 Jul 13 j 05:12	7° \mathfrak{B} 12'30	
	-11760 Feb 02 j 10:28	0° \mathfrak{M}					
	-11760 Apr 27 j 13:00	15° \mathfrak{M}		conjunction	-11754 Jul 25 j 14:05	10° \mathfrak{B} 00'11	1°41'23
retrograde	-11760 May 28 j 09:30	16° \mathfrak{M} 32'04		minimum elong	-11754 Jul 25 j 14:02	10° \mathfrak{B} 00'09	1°41'46
	-11760 Jun 27 j 21:45	15° \mathfrak{R} \mathfrak{M}		max. Earth dist.	-11754 Jul 24 j 16:56	9° \mathfrak{B} 48'12	6.30097 AU
opposition	-11760 Jul 26 j 13:08	11° \mathfrak{M} 28'06	-2°29'57	morning rise	-11754 Aug 06 j 22:06	12° \mathfrak{B} 47'33	
min. Earth dist.	-11760 Jul 25 j 22:08	11° \mathfrak{M} 33'14	4.10191 AU		-11754 Aug 16 j 19:15	15° \mathfrak{B}	
direct	-11760 Sep 23 j 03:45	6° \mathfrak{M} 27'00			-11754 Nov 17 j 03:20	0° \mathfrak{I}	
	-11760 Dec 09 j 22:51	15° \mathfrak{M}		retrograde	-11754 Dec 09 j 07:04	0° \mathfrak{I} 44'59	
evening set	-11759 Jan 28 j 18:42	25° \mathfrak{M} 39'00			-11754 Dec 31 j 13:08	30° \mathfrak{R} \mathfrak{B}	
				opposition	-11753 Feb 08 j 20:25	25° \mathfrak{B} 51'10	2°34'06
conjunction	-11759 Feb 11 j 11:26	28° \mathfrak{M} 47'18	-1°43'20	min. Earth dist.	-11753 Feb 09 j 07:27	25° \mathfrak{B} 47'40	4.27448 AU
minimum elong	-11759 Feb 11 j 11:26	28° \mathfrak{M} 47'18	1°43'53	direct	-11753 Apr 11 j 09:10	20° \mathfrak{B} 56'22	
max. Earth dist.	-11759 Feb 12 j 03:05	28° \mathfrak{M} 56'17	6.12978 AU		-11753 Jul 02 j 12:09	0° \mathfrak{I}	
	-11759 Feb 16 j 18:11	0° \mathfrak{X}		evening set	-11753 Aug 13 j 12:31	9° \mathfrak{I} 00'59	
morning rise	-11759 Feb 25 j 03:57	1° \mathfrak{X} 55'17					
retrograde	-11759 Jul 01 j 09:54	20° \mathfrak{X} 49'46		conjunction	-11753 Aug 25 j 21:52	11° \mathfrak{I} 51'12	1°40'10
opposition	-11759 Aug 29 j 07:24	15° \mathfrak{X} 48'43	-2°23'41	minimum elong	-11753 Aug 25 j 21:55	11° \mathfrak{I} 51'14	1°40'47
min. Earth dist.	-11759 Aug 29 j 02:21	15° \mathfrak{X} 50'26	4.16593 AU	max. Earth dist.	-11753 Aug 25 j 12:53	11° \mathfrak{I} 46'03	6.23954 AU
direct	-11759 Oct 28 j 00:11	10° \mathfrak{X} 45'06		morning rise	-11753 Sep 07 j 08:22	14° \mathfrak{I} 42'09	
evening set	-11758 Mar 05 j 22:11	29° \mathfrak{X} 46'05			-11753 Nov 25 j 19:38	0° \mathfrak{C}	
	-11758 Mar 06 j 22:58	0° \mathfrak{Z}		retrograde	-11752 Jan 12 j 17:45	3° \mathfrak{C} 19'34	
					-11752 Mar 01 j 09:38	30° \mathfrak{R} \mathfrak{I}	
conjunction	-11758 Mar 19 j 12:41	2° \mathfrak{Z} 50'24	-1°21'55	opposition	-11752 Mar 14 j 07:36	28° \mathfrak{I} 22'34	2°09'03
minimum elong	-11758 Mar 19 j 12:47	2° \mathfrak{Z} 50'27	1°22'35	min. Earth dist.	-11752 Mar 14 j 09:04	28° \mathfrak{I} 22'06	4.20320 AU
max. Earth dist.	-11758 Mar 19 j 12:56	2° \mathfrak{Z} 50'33	6.20301 AU	direct	-11752 May 13 j 18:11	23° \mathfrak{I} 29'29	
morning rise	-11758 Apr 02 j 00:46	5° \mathfrak{Z} 53'26			-11752 Jul 19 j 19:22	0° \mathfrak{C}	
retrograde	-11758 Aug 03 j 04:39	24° \mathfrak{Z} 01'50		evening set	-11752 Sep 13 j 17:11	11° \mathfrak{C} 44'49	
opposition	-11758 Oct 01 j 06:54	19° \mathfrak{Z} 04'38	-1°29'56				
min. Earth dist.	-11758 Oct 01 j 12:04	19° \mathfrak{Z} 02'54	4.24077 AU	conjunction	-11752 Sep 26 j 09:55	14° \mathfrak{C} 41'26	1°07'25
direct	-11758 Dec 01 j 04:44	14° \mathfrak{Z} 00'19		minimum elong	-11752 Sep 26 j 10:01	14° \mathfrak{C} 41'29	1°08'04
	-11757 Mar 28 j 05:47	0° \approx		max. Earth dist.	-11752 Sep 26 j 16:14	14° \mathfrak{C} 45'05	6.16515 AU
evening set	-11757 Apr 09 j 10:29	2° \approx 41'03		morning rise	-11752 Oct 09 j 05:34	17° \mathfrak{C} 39'39	
					-11752 Dec 07 j 01:27	0° \mathcal{O}	

Attention, astronomical year style is used: The year -11751 in astronomical counting style is the year 11752 BCE in historical counting style.

retrograde	-11751 Feb 16 j 04:00	6°♌57'38		direct	-11746 Dec 05 j 23:42	18°♊42'22	
opposition	-11751 Apr 18 j 10:29	1°♌56'54	1°00'39		-11745 Mar 10 j 18:57	0°♊	
min. Earth dist.	-11751 Apr 17 j 23:49	2°♌00'23	4.13078 AU	evening set	-11745 Apr 14 j 03:40	7°♊20'05	
	-11751 May 03 j 18:12	30°♋					
direct	-11751 Jun 16 j 15:31	27°♊03'49		conjunction	-11745 Apr 27 j 11:26	10°♊18'35	-0°26'29
	-11751 Jul 29 j 17:30	0°♌		minimum elong	-11745 Apr 27 j 11:29	10°♊18'36	0°27'00
	-11751 Oct 14 j 20:43	15°♌		max. Earth dist.	-11745 Apr 26 j 17:52	10°♊08'45	6.28305 AU
evening set	-11751 Oct 17 j 11:21	15°♌36'19		morning rise	-11745 May 10 j 15:39	13°♊15'16	
					-11745 May 18 j 13:11	15°♊	
conjunction	-11751 Oct 30 j 14:51	18°♌40'29	0°11'22		-11745 Aug 17 j 22:01	0°♋	
minimum elong	-11751 Oct 30 j 14:53	18°♌40'30	0°11'49	retrograde	-11745 Sep 08 j 15:28	0°♋45'36	
behind sun begin	-11751 Oct 30 j 09:09	18°♌37'10			-11745 Sep 30 j 08:51	30°♋	
behind sun end	-11751 Oct 30 j 20:36	18°♌43'50		asc. node	-11745 Oct 28 j 12:42	27°♋08'06	
max. Earth dist.	-11751 Oct 31 j 12:16	18°♌53'01	6.10207 AU	opposition	-11745 Nov 07 j 08:40	25°♋52'08	0°02'07
morning rise	-11751 Nov 12 j 21:58	21°♌46'39		min. Earth dist.	-11745 Nov 08 j 00:10	25°♋47'05	4.30827 AU
	-11751 Dec 19 j 22:12	0°♍		direct	-11744 Jan 08 j 09:48	20°♋49'10	
desc. node	-11750 Jan 11 j 18:42	4°♍25'49			-11744 Apr 02 j 02:00	0°♋	
retrograde	-11750 Mar 24 j 07:20	11°♍33'09		evening set	-11744 May 15 j 20:41	9°♋07'42	
opposition	-11750 May 23 j 19:34	6°♍29'21	-0°30'47				
min. Earth dist.	-11750 May 23 j 02:02	6°♍35'13	4.08214 AU	conjunction	-11744 May 28 j 19:25	12°♋00'48	0°30'39
direct	-11750 Jul 21 j 05:49	1°♍34'18		minimum elong	-11744 May 28 j 19:22	12°♋00'47	0°30'25
evening set	-11750 Nov 22 j 01:37	20°♍27'05		max. Earth dist.	-11744 May 27 j 16:06	11°♋45'33	6.32463 AU
				morning rise	-11744 Jun 10 j 15:00	14°♋52'17	
conjunction	-11750 Dec 05 j 14:03	23°♍36'25	-0°49'42		-11744 Sep 01 j 12:06	0°♌	
minimum elong	-11750 Dec 05 j 13:58	23°♍36'22	0°49'35	retrograde	-11744 Oct 09 j 11:12	2°♌12'21	
max. Earth dist.	-11750 Dec 06 j 19:58	23°♍53'53	6.07226 AU		-11744 Nov 16 j 20:30	30°♌	
morning rise	-11750 Dec 19 j 05:32	26°♍47'20		opposition	-11744 Dec 08 j 21:36	27°♌20'28	1°21'55
	-11749 Jan 02 j 05:37	0°♍		min. Earth dist.	-11744 Dec 09 j 17:30	27°♌14'06	4.33205 AU
retrograde	-11749 Apr 29 j 05:41	16°♍38'47		direct	-11743 Feb 09 j 08:49	22°♌20'04	
opposition	-11749 Jun 27 j 22:26	11°♍33'51	-1°52'09		-11743 Apr 26 j 17:40	0°♌	
min. Earth dist.	-11749 Jun 27 j 03:16	11°♍40'23	4.07509 AU	evening set	-11743 Jun 16 j 11:36	10°♌26'13	
direct	-11749 Aug 25 j 03:09	6°♍35'38		max. Earth dist.	-11743 Jun 27 j 23:07	13°♌00'25	6.32804 AU
evening set	-11749 Dec 28 j 23:25	25°♍43'58					
				conjunction	-11743 Jun 29 j 01:24	13°♌15'11	1°18'16
conjunction	-11748 Jan 11 j 15:51	28°♍54'06	-1°32'57	minimum elong	-11743 Jun 29 j 01:19	13°♌15'08	1°18'23
minimum elong	-11748 Jan 11 j 15:45	28°♍54'03	1°33'14	morning rise	-11743 Jul 11 j 12:48	16°♌03'01	
max. Earth dist.	-11748 Jan 12 j 17:53	29°♍09'12	6.08722 AU		-11743 Sep 22 j 07:29	0°♍	
	-11748 Jan 16 j 09:30	0°♍		retrograde	-11743 Nov 10 j 18:29	3°♍35'25	
morning rise	-11748 Jan 25 j 09:48	2°♍04'55			-11743 Dec 31 j 16:57	30°♍	
	-11748 Mar 27 j 03:38	15°♍		opposition	-11742 Jan 10 j 22:01	28°♍43'19	2°17'46
retrograde	-11748 Jun 02 j 06:44	21°♍34'04		min. Earth dist.	-11742 Jan 11 j 15:16	28°♍37'52	4.31621 AU
opposition	-11748 Jul 31 j 09:31	16°♍30'23	-2°32'23	direct	-11742 Mar 14 j 03:02	23°♍46'09	
min. Earth dist.	-11748 Jul 30 j 20:05	16°♍35'00	4.11169 AU		-11742 May 20 j 15:10	0°♍	
	-11748 Aug 11 j 13:35	15°♍		evening set	-11742 Jul 17 j 15:28	11°♍48'09	
direct	-11748 Sep 28 j 04:09	11°♍28'50					
	-11748 Nov 14 j 19:55	15°♍		conjunction	-11742 Jul 29 j 23:51	14°♍35'56	1°43'09
	-11747 Jan 31 j 02:06	0°♎		minimum elong	-11742 Jul 29 j 23:48	14°♍35'55	1°43'35
evening set	-11747 Feb 02 j 23:19	0°♎39'17		max. Earth dist.	-11742 Jul 29 j 03:45	14°♍24'31	6.29307 AU
					-11742 Jul 31 j 18:14	15°♍	
conjunction	-11747 Feb 16 j 16:03	3°♎47'02	-1°42'23	morning rise	-11742 Aug 11 j 07:50	17°♍23'35	
minimum elong	-11747 Feb 16 j 16:04	3°♎47'03	1°42'58		-11742 Oct 12 j 22:07	0°♎	
max. Earth dist.	-11747 Feb 17 j 06:48	3°♎55'29	6.14140 AU	retrograde	-11742 Dec 14 j 03:43	5°♎26'26	
morning rise	-11747 Mar 02 j 07:54	6°♎54'16		opposition	-11741 Feb 13 j 16:46	0°♎32'15	2°33'28
retrograde	-11747 Jul 06 j 02:46	25°♎41'29		min. Earth dist.	-11741 Feb 14 j 03:05	0°♎28'59	4.26525 AU
opposition	-11747 Sep 03 j 00:10	20°♎41'02	-2°18'34		-11741 Feb 17 j 22:33	30°♎	
min. Earth dist.	-11747 Sep 02 j 20:28	20°♎42'18	4.17821 AU	direct	-11741 Apr 16 j 02:56	25°♎37'48	
direct	-11747 Nov 01 j 20:40	15°♎37'16			-11741 Jun 09 j 23:21	0°♎	
	-11746 Feb 18 j 01:22	0°♏		evening set	-11741 Aug 18 j 00:38	13°♎43'29	
evening set	-11746 Mar 10 j 21:23	4°♏35'11					
				conjunction	-11741 Aug 30 j 10:44	16°♎34'24	1°37'21
conjunction	-11746 Mar 24 j 11:07	7°♏38'46	-1°16'28	minimum elong	-11741 Aug 30 j 10:47	16°♎34'26	1°37'59
minimum elong	-11746 Mar 24 j 11:13	7°♏38'50	1°17'08	max. Earth dist.	-11741 Aug 30 j 04:23	16°♎30'45	6.22995 AU
max. Earth dist.	-11746 Mar 24 j 07:10	7°♏36'32	6.21496 AU	morning rise	-11741 Sep 11 j 22:10	19°♎26'10	
morning rise	-11746 Apr 06 j 22:34	10°♏41'03			-11741 Oct 31 j 18:12	0°♏	
retrograde	-11746 Aug 07 j 17:44	28°♏43'20		retrograde	-11740 Jan 17 j 15:29	8°♏09'07	
opposition	-11746 Oct 05 j 21:08	23°♏46'40	-1°19'41	opposition	-11740 Mar 19 j 06:23	3°♏11'35	2°01'40
min. Earth dist.	-11746 Oct 06 j 04:25	23°♏44'15	4.25134 AU	min. Earth dist.	-11740 Mar 19 j 05:04	3°♏12'00	4.19411 AU

Attention, astronomical year style is used: The year -11740 in astronomical counting style is the year 11741 BCE in historical counting style.

	-11740 Apr 15 j 09:38	30° RII	conjunction	-11734 Mar 29 j 07:37	12° Z 22'35	-1°10'34	
direct	-11740 May 18 j 12:15	28° II 18'39	minimum elong	-11734 Mar 29 j 07:43	12° Z 22'38	1°11'13	
	-11740 Jun 20 j 07:05	0° S	max. Earth dist.	-11734 Mar 29 j 02:08	12° Z 19'29	6.22232 AU	
evening set	-11740 Sep 18 j 09:19	16° S 35'17	morning rise	-11734 Apr 11 j 18:11	15° Z 24'13		
				-11734 Jun 26 j 15:15	0° \approx		
conjunction	-11740 Oct 01 j 03:23	19° S 32'49	1°00'34	retrograde	-11734 Aug 12 j 07:02	3° \approx 22'10	
minimum elong	-11740 Oct 01 j 03:29	19° S 32'52	1°01'13		-11734 Sep 28 j 10:46	30° RZ	
max. Earth dist.	-11740 Oct 01 j 12:23	19° S 38'03	6.15742 AU	opposition	-11734 Oct 10 j 10:49	28° Z 26'03	-1°09'03
morning rise	-11740 Oct 14 j 00:31	22° S 32'04		min. Earth dist.	-11734 Oct 10 j 19:34	28° Z 23'09	4.25745 AU
	-11740 Nov 16 j 15:54	0° Q		direct	-11734 Dec 10 j 16:33	23° Z 21'53	
retrograde	-11739 Feb 21 j 05:51	11° Q 54'02			-11733 Feb 18 j 15:06	0° \approx	
opposition	-11739 Apr 23 j 10:04	6° Q 52'44	0°48'29	evening set	-11733 Apr 18 j 20:11	11° \approx 57'50	
min. Earth dist.	-11739 Apr 22 j 22:32	6° Q 56'32	4.12484 AU	max. Earth dist.	-11733 May 01 j 06:51	14° \approx 44'33	6.28756 AU
direct	-11739 Jun 21 j 13:18	1° Q 59'26					
	-11739 Sep 27 j 20:36	15° Q		conjunction	-11733 May 02 j 02:50	14° \approx 55'44	-0°18'28
evening set	-11739 Oct 22 j 08:38	20° Q 33'30		minimum elong	-11733 May 02 j 02:52	14° \approx 55'45	0°18'58
					-11733 May 02 j 10:29	15° \approx	
conjunction	-11739 Nov 04 j 13:32	23° Q 38'26	0°02'37	morning rise	-11733 May 15 j 06:06	17° \approx 51'50	
minimum elong	-11739 Nov 04 j 13:32	23° Q 38'26	0°03'03		-11733 Jul 14 j 21:58	0° X	
behind sun begin	-11739 Nov 04 j 05:21	23° Q 33'40		asc. node	-11733 Sep 07 j 05:26	5° X 17'01	
behind sun end	-11739 Nov 04 j 21:44	23° Q 43'12		retrograde	-11733 Sep 13 j 03:44	5° X 20'28	
max. Earth dist.	-11739 Nov 05 j 13:01	23° Q 52'09	6.09852 AU	opposition	-11733 Nov 11 j 23:00	0° X 27'17	0°14'04
morning rise	-11739 Nov 17 j 22:03	26° Q 45'21		min. Earth dist.	-11733 Nov 12 j 15:14	0° X 22'00	4.31098 AU
desc. node	-11739 Nov 21 j 01:16	27° Q 28'53			-11733 Nov 15 j 10:58	30° $\text{R}\approx$	
	-11739 Dec 02 j 01:39	0° P		direct	-11732 Jan 13 j 01:44	25° \approx 24'37	
retrograde	-11738 Mar 29 j 07:52	16° P 32'46			-11732 Mar 10 j 16:38	0° X	
opposition	-11738 May 28 j 17:46	11° P 28'39	-0°43'32	evening set	-11732 May 20 j 09:48	13° X 41'52	
min. Earth dist.	-11738 May 27 j 23:25	11° P 34'49	4.08142 AU	max. Earth dist.	-11732 Jun 01 j 05:19	16° X 19'51	6.32550 AU
direct	-11738 Jul 26 j 01:51	6° P 33'12					
evening set	-11738 Nov 27 j 03:23	25° P 27'29		conjunction	-11732 Jun 02 j 07:19	16° X 34'23	0°38'20
				minimum elong	-11732 Jun 02 j 07:15	16° X 34'21	0°38'09
conjunction	-11738 Dec 10 j 16:30	28° P 37'00	-0°57'15	morning rise	-11732 Jun 15 j 01:31	19° X 25'16	
minimum elong	-11738 Dec 10 j 16:24	28° P 36'56	0°57'12		-11732 Aug 05 j 18:10	0° Y	
max. Earth dist.	-11738 Dec 11 j 21:16	28° P 53'48	6.07408 AU	retrograde	-11732 Oct 14 j 00:29	6° Y 46'16	
	-11738 Dec 16 j 14:43	0° A		opposition	-11732 Dec 13 j 13:28	1° Y 54'30	1°31'45
morning rise	-11738 Dec 24 j 08:40	1° A 48'02		min. Earth dist.	-11732 Dec 14 j 08:44	1° Y 48'21	4.33118 AU
retrograde	-11737 May 04 j 02:58	21° A 37'09			-11732 Dec 28 j 21:39	30° RX	
opposition	-11737 Jul 02 j 18:11	16° A 32'11	-2°00'41	direct	-11731 Feb 14 j 00:33	26° X 54'37	
min. Earth dist.	-11737 Jul 01 j 23:51	16° A 38'27	4.07928 AU		-11731 Apr 01 j 16:16	0° Y	
direct	-11737 Aug 30 j 00:25	11° A 33'25		evening set	-11731 Jun 20 j 22:45	14° Y 59'54	
	-11737 Dec 31 j 00:41	0° M		max. Earth dist.	-11731 Jul 02 j 08:48	17° Y 33'31	6.32529 AU
evening set	-11736 Jan 03 j 02:28	0° M 42'22					
				conjunction	-11731 Jul 03 j 11:20	17° Y 48'26	1°23'26
conjunction	-11736 Jan 16 j 19:15	3° M 52'19	-1°36'28	minimum elong	-11731 Jul 03 j 11:14	17° Y 48'23	1°23'35
minimum elong	-11736 Jan 16 j 19:10	3° M 52'16	1°36'48	morning rise	-11731 Jul 15 j 22:02	20° Y 36'03	
max. Earth dist.	-11736 Jan 17 j 21:03	4° M 07'15	6.09330 AU		-11731 Aug 29 j 19:22	0° Z	
morning rise	-11736 Jan 30 j 12:57	7° M 02'42		retrograde	-11731 Nov 15 j 11:15	8° Z 11'37	
	-11736 Mar 06 j 13:52	15° M		opposition	-11730 Jan 15 j 16:18	3° Z 19'17	2°22'42
retrograde	-11736 Jun 07 j 01:42	26° M 26'55		min. Earth dist.	-11730 Jan 16 j 08:50	3° Z 14'02	4.31184 AU
opposition	-11736 Aug 05 j 02:21	21° M 23'37	-2°33'41		-11730 Feb 13 j 12:38	30° RY	
min. Earth dist.	-11736 Aug 04 j 14:32	21° M 27'39	4.11913 AU	direct	-11730 Mar 18 j 19:47	28° Y 22'30	
direct	-11736 Oct 02 j 23:49	16° M 21'40			-11730 Apr 20 j 22:44	0° Z	
	-11735 Jan 14 j 03:22	0° Z			-11730 Jul 15 j 19:55	15° Z	
evening set	-11735 Feb 08 j 00:36	5° Z 31'27		evening set	-11730 Jul 22 j 01:44	16° Z 24'04	
conjunction	-11735 Feb 21 j 16:58	8° Z 38'44	-1°40'45	conjunction	-11730 Aug 03 j 10:02	19° Z 11'59	1°44'17
minimum elong	-11735 Feb 21 j 17:01	8° Z 38'46	1°41'20	minimum elong	-11730 Aug 03 j 10:00	19° Z 11'58	1°44'46
max. Earth dist.	-11735 Feb 22 j 03:41	8° Z 44'52	6.14941 AU	max. Earth dist.	-11730 Aug 02 j 16:55	19° Z 02'15	6.28728 AU
morning rise	-11735 Mar 07 j 08:33	11° Z 45'28		morning rise	-11730 Aug 15 j 17:54	21° Z 59'51	
	-11735 Jun 24 j 07:22	0° Z			-11730 Sep 21 j 21:43	0° II	
retrograde	-11735 Jul 10 j 16:47	0° Z 27'01		retrograde	-11730 Dec 18 j 22:07	10° II 07'12	
	-11735 Jul 27 j 00:50	30° RX		opposition	-11729 Feb 18 j 13:06	5° II 12'38	2°31'50
opposition	-11735 Sep 07 j 14:38	25° Z 27'03	-2°12'41	min. Earth dist.	-11729 Feb 18 j 21:22	5° II 10'00	4.25835 AU
min. Earth dist.	-11735 Sep 07 j 12:37	25° Z 27'44	4.18604 AU	direct	-11729 Apr 20 j 19:47	0° II 18'32	
direct	-11735 Nov 06 j 15:15	20° Z 23'02		evening set	-11729 Aug 22 j 12:38	18° II 24'27	
	-11734 Jan 30 j 18:56	0° Z					
evening set	-11734 Mar 15 j 18:21	9° Z 19'28		conjunction	-11729 Sep 03 j 23:19	21° II 15'59	1°33'56

Attention, astronomical year style is used: The year -11729 in astronomical counting style is the year 11730 BCE in historical counting style.

minimum elong	-11729 Sep 03 j 23:23	21°II16'01	1°34'34	morning rise	-11723 Mar 12 j 10:37	16°X41'15	
max. Earth dist.	-11729 Sep 03 j 18:17	21°II13'05	6.22235 AU		-11723 May 17 j 01:42	0°Z	
morning rise	-11729 Sep 16 j 11:48	24°II08'32		retrograde	-11723 Jul 15 j 10:29	5°Z17'26	
	-11729 Oct 12 j 20:12	0°E		opposition	-11723 Sep 12 j 07:06	0°Z18'02	-2°05'48
retrograde	-11728 Jan 22 j 14:11	12°E56'22		min. Earth dist.	-11723 Sep 12 j 07:08	0°Z18'01	4.19357 AU
opposition	-11728 Mar 24 j 04:10	7°E58'18	1°53'31		-11723 Sep 14 j 12:26	30°RZ	
min. Earth dist.	-11728 Mar 24 j 01:41	7°E59'06	4.18604 AU	direct	-11723 Nov 11 j 11:45	25°X13'54	
direct	-11728 May 23 j 07:05	3°E05'24			-11722 Jan 07 j 23:09	0°Z	
evening set	-11728 Sep 23 j 01:00	21°E23'25		evening set	-11722 Mar 20 j 16:50	14°Z08'39	
conjunction	-11728 Oct 05 j 20:35	24°E21'57	0°53'22	conjunction	-11722 Apr 03 j 05:27	17°Z11'13	-1°04'07
minimum elong	-11728 Oct 05 j 20:40	24°E22'00	0°53'59	minimum elong	-11722 Apr 03 j 05:33	17°Z11'17	1°04'45
max. Earth dist.	-11728 Oct 06 j 08:07	24°E28'39	6.14983 AU	max. Earth dist.	-11722 Apr 02 j 21:43	17°Z06'52	6.22982 AU
morning rise	-11728 Oct 18 j 19:15	27°E22'14		morning rise	-11722 Apr 16 j 15:14	20°Z12'16	
	-11728 Oct 30 j 07:06	0°Q			-11722 Jun 02 j 07:02	0°W	
	-11727 Jan 22 j 17:16	15°Q		retrograde	-11722 Aug 16 j 19:57	8°W05'49	
retrograde	-11727 Feb 26 j 06:27	16°Q48'06		opposition	-11722 Oct 15 j 02:17	3°W10'09	-0°57'48
	-11727 Apr 01 j 15:31	15°RQ		min. Earth dist.	-11722 Oct 15 j 11:32	3°W07'05	4.26440 AU
opposition	-11727 Apr 28 j 08:24	11°Q46'24	0°36'04		-11722 Nov 10 j 01:22	30°RZ	
min. Earth dist.	-11727 Apr 27 j 19:41	11°Q50'35	4.11832 AU	direct	-11722 Dec 15 j 10:39	28°Z06'05	
direct	-11727 Jun 26 j 07:51	6°Q52'56			-11721 Jan 20 j 05:59	0°W	
	-11727 Sep 08 j 22:04	15°Q			-11721 Apr 16 j 01:02	15°W	
desc. node	-11727 Sep 30 j 19:52	19°Q30'38		evening set	-11721 Apr 23 j 14:00	16°W39'50	
evening set	-11727 Oct 27 j 05:53	25°Q29'22		conjunction	-11721 May 06 j 19:29	19°W37'00	-0°10'16
conjunction	-11727 Nov 09 j 12:02	28°Q35'05	-0°06'14	minimum elong	-11721 May 06 j 19:31	19°W37'01	0°10'44
minimum elong	-11727 Nov 09 j 12:01	28°Q35'05	0°05'52	behind sun begin	-11721 May 06 j 13:17	19°W33'33	
behind sun begin	-11727 Nov 09 j 04:09	28°Q30'30		behind sun end	-11721 May 07 j 01:44	19°W40'29	
behind sun end	-11727 Nov 09 j 19:53	28°Q39'39		max. Earth dist.	-11721 May 05 j 23:05	19°W25'36	6.29379 AU
max. Earth dist.	-11727 Nov 10 j 11:25	28°Q48'45	6.09361 AU	morning rise	-11721 May 19 j 21:31	22°W32'22	
	-11727 Nov 15 j 13:18	0°P			-11721 Jun 23 j 21:52	0°X	
morning rise	-11727 Nov 22 j 21:58	1°P42'48		asc. node	-11721 Jul 16 j 18:30	4°X12'23	
retrograde	-11726 Apr 03 j 07:34	21°P31'57		retrograde	-11721 Sep 17 j 17:24	9°X58'43	
opposition	-11726 Jun 02 j 15:31	16°P27'34	-0°55'57	opposition	-11721 Nov 16 j 14:35	5°X05'50	0°26'02
min. Earth dist.	-11726 Jun 01 j 20:52	16°P33'51	4.07854 AU	min. Earth dist.	-11721 Nov 17 j 07:30	5°X00'21	4.31608 AU
direct	-11726 Jul 30 j 22:26	11°P31'41		direct	-11720 Jan 17 j 20:02	0°X03'33	
	-11726 Nov 30 j 04:12	0°E		evening set	-11720 May 24 j 23:19	18°X18'23	
evening set	-11726 Dec 02 j 05:40	0°E28'39		conjunction	-11720 Jun 06 j 19:26	21°X10'09	0°45'48
conjunction	-11726 Dec 15 j 19:43	3°E38'32	-1°04'24	minimum elong	-11720 Jun 06 j 19:21	21°X10'07	0°45'40
minimum elong	-11726 Dec 15 j 19:37	3°E38'28	1°04'24	max. Earth dist.	-11720 Jun 05 j 16:48	20°X55'16	6.32897 AU
max. Earth dist.	-11726 Dec 17 j 01:35	3°E55'57	6.07350 AU	morning rise	-11720 Jun 19 j 12:29	24°X00'23	
morning rise	-11726 Dec 29 j 12:17	6°E49'45			-11720 Jul 17 j 08:02	0°Y	
retrograde	-11725 May 09 j 02:30	26°E37'19		retrograde	-11720 Oct 18 j 13:46	11°Y21'36	
opposition	-11725 Jul 07 j 14:17	21°E32'30	-2°08'24	opposition	-11720 Dec 18 j 05:59	6°Y29'46	1°41'00
min. Earth dist.	-11725 Jul 06 j 21:10	21°E38'22	4.08124 AU	min. Earth dist.	-11720 Dec 19 j 00:34	6°Y23'50	4.33301 AU
direct	-11725 Sep 03 j 21:43	16°E33'17		direct	-11719 Feb 18 j 16:59	1°Y30'16	
	-11725 Dec 13 j 18:39	0°M		evening set	-11719 Jun 25 j 09:10	19°Y33'31	
evening set	-11724 Jan 08 j 07:11	5°M43'55		conjunction	-11719 Jul 07 j 20:50	22°Y21'36	1°28'03
conjunction	-11724 Jan 21 j 23:59	8°M53'42	-1°39'17	minimum elong	-11719 Jul 07 j 20:45	22°Y21'33	1°28'16
minimum elong	-11724 Jan 21 j 23:55	8°M53'40	1°39'41	max. Earth dist.	-11719 Jul 06 j 20:45	22°Y08'03	6.32521 AU
max. Earth dist.	-11724 Jan 22 j 22:43	9°M06'51	6.09730 AU	morning rise	-11719 Jul 20 j 06:34	25°Y08'49	
morning rise	-11724 Feb 04 j 17:46	12°M03'51			-11719 Aug 11 j 11:16	0°B	
	-11724 Feb 17 j 15:49	15°M		retrograde	-11719 Nov 20 j 02:17	12°B46'42	
	-11724 May 13 j 13:33	0°X		opposition	-11718 Jan 20 j 10:02	7°B54'08	2°26'39
retrograde	-11724 Jun 11 j 20:18	1°X23'43		min. Earth dist.	-11718 Jan 21 j 01:37	7°B49'12	4.30988 AU
	-11724 Jul 10 j 20:36	30°RM		direct	-11718 Mar 23 j 12:23	2°B57'47	
opposition	-11724 Aug 09 j 20:19	26°M20'47	-2°33'56		-11718 Jun 29 j 04:34	15°B	
min. Earth dist.	-11724 Aug 09 j 09:23	26°M24'32	4.12486 AU	evening set	-11718 Jul 26 j 11:15	20°B58'03	
direct	-11724 Oct 07 j 20:43	21°M18'25		conjunction	-11718 Aug 07 j 19:14	23°B46'00	1°44'44
	-11724 Dec 25 j 22:17	0°X		minimum elong	-11718 Aug 07 j 19:13	23°B46'00	1°45'15
evening set	-11723 Feb 13 j 03:21	10°X28'06		max. Earth dist.	-11718 Aug 07 j 02:18	23°B36'22	6.28334 AU
conjunction	-11723 Feb 26 j 19:37	13°X35'03	-1°38'22	morning rise	-11718 Aug 20 j 03:23	26°B34'06	
minimum elong	-11723 Feb 26 j 19:40	13°X35'05	1°38'59		-11718 Sep 04 j 12:40	0°II	
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

























































































































Attention, astronomical year style is used: The year -11717 in astronomical counting style is the year 11718 BCE in historical counting style.

opposition	-11717 Feb 23 j 08:07	9° Π 50'16	2°29'12		-11712 Aug 24 j 08:46	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	-11717 Feb 23 j 15:04	9° Π 48'04	4.25255 AU	direct	-11712 Oct 12 j 19:19	26° \mathbb{M} 16'18	
direct	-11717 Apr 25 j 11:46	4° Π 56'20			-11712 Dec 01 j 06:26	0° \mathbb{A}	
evening set	-11717 Aug 26 j 23:13	23° Π 02'15		evening set	-11711 Feb 18 j 06:38	15° \mathbb{A} 25'32	
conjunction	-11717 Sep 08 j 10:57	25° Π 54'29	1°29'55	conjunction	-11711 Mar 03 j 22:40	18° \mathbb{A} 32'05	-1°35'15
minimum elong	-11717 Sep 08 j 11:01	25° Π 54'32	1°30'35	minimum elong	-11711 Mar 03 j 22:44	18° \mathbb{A} 32'08	1°35'53
max. Earth dist.	-11717 Sep 08 j 08:50	25° Π 53'16	6.21528 AU	max. Earth dist.	-11711 Mar 04 j 06:06	18° \mathbb{A} 36'20	6.16431 AU
morning rise	-11717 Sep 21 j 00:25	28° Π 47'48		morning rise	-11711 Mar 17 j 13:09	21° \mathbb{A} 37'45	
	-11717 Sep 26 j 07:07	0° \mathbb{E}			-11711 Apr 25 j 06:33	0° \mathbb{E}	
retrograde	-11716 Jan 27 j 11:30	17° \mathbb{E} 40'14		retrograde	-11711 Jul 20 j 01:29	10° \mathbb{E} 08'05	
opposition	-11716 Mar 29 j 00:31	12° \mathbb{E} 41'41	1°44'41	opposition	-11711 Sep 16 j 23:52	5° \mathbb{E} 09'11	-1°58'00
min. Earth dist.	-11716 Mar 28 j 21:04	12° \mathbb{E} 42'48	4.17805 AU	min. Earth dist.	-11711 Sep 17 j 00:07	5° \mathbb{E} 09'06	4.20274 AU
direct	-11716 May 27 j 23:39	7° \mathbb{E} 48'48		direct	-11711 Nov 16 j 07:29	0° \mathbb{E} 04'58	
evening set	-11716 Sep 27 j 15:48	26° \mathbb{E} 08'21		evening set	-11710 Mar 25 j 15:08	18° \mathbb{E} 57'12	
conjunction	-11716 Oct 10 j 12:40	29° \mathbb{E} 07'50	0°45'53	conjunction	-11710 Apr 08 j 02:54	21° \mathbb{E} 59'03	-0°57'12
minimum elong	-11716 Oct 10 j 12:45	29° \mathbb{E} 07'53	0°46'29	minimum elong	-11710 Apr 08 j 02:59	21° \mathbb{E} 59'06	0°57'50
max. Earth dist.	-11716 Oct 11 j 00:25	29° \mathbb{E} 14'41	6.14164 AU	max. Earth dist.	-11710 Apr 07 j 17:06	21° \mathbb{E} 53'32	6.23976 AU
	-11716 Oct 14 j 06:16	0° \mathbb{O}		morning rise	-11710 Apr 21 j 11:49	24° \mathbb{E} 59'20	
morning rise	-11716 Oct 23 j 13:03	2° \mathbb{O} 09'13			-11710 May 14 j 09:32	0° \mathbb{A}	
	-11716 Dec 23 j 23:47	15° \mathbb{O}		retrograde	-11710 Aug 21 j 10:19	12° \mathbb{A} 47'46	
retrograde	-11715 Mar 03 j 05:11	21° \mathbb{O} 39'19		opposition	-11710 Oct 19 j 17:41	7° \mathbb{A} 52'33	-0°46'12
opposition	-11715 May 03 j 05:25	16° \mathbb{O} 37'08	0°23'31	min. Earth dist.	-11710 Oct 20 j 04:43	7° \mathbb{A} 48'54	4.27387 AU
min. Earth dist.	-11715 May 02 j 15:38	16° \mathbb{O} 41'42	4.11044 AU	direct	-11710 Dec 20 j 06:30	2° \mathbb{A} 48'39	
	-11715 May 15 j 17:14	15° \mathbb{R} \mathbb{O}			-11709 Mar 29 j 20:12	15° \mathbb{A}	
direct	-11715 Jul 01 j 01:40	11° \mathbb{O} 43'23		evening set	-11709 Apr 28 j 06:17	21° \mathbb{A} 19'01	
desc. node	-11715 Aug 11 j 15:20	14° \mathbb{O} 29'40					
	-11715 Aug 15 j 11:32	15° \mathbb{O}		conjunction	-11709 May 11 j 10:38	24° \mathbb{A} 15'23	-0°02'03
	-11715 Oct 30 j 11:11	0° \mathbb{M}		minimum elong	-11709 May 11 j 10:38	24° \mathbb{A} 15'22	0°02'27
evening set	-11715 Nov 01 j 02:45	0° \mathbb{M} 22'59		behind sun begin	-11709 May 11 j 02:32	24° \mathbb{A} 10'52	
				behind sun end	-11709 May 11 j 18:45	24° \mathbb{A} 19'53	
conjunction	-11715 Nov 14 j 10:25	3° \mathbb{M} 29'37	-0°14'50	max. Earth dist.	-11709 May 10 j 13:30	24° \mathbb{A} 03'34	6.30187 AU
minimum elong	-11715 Nov 14 j 10:23	3° \mathbb{M} 29'36	0°14'30	morning rise	-11709 May 24 j 11:22	27° \mathbb{A} 09'54	
behind sun begin	-11715 Nov 14 j 06:49	3° \mathbb{M} 27'31		asc. node	-11709 May 25 j 04:39	27° \mathbb{A} 19'30	
behind sun end	-11715 Nov 14 j 13:58	3° \mathbb{M} 31'41			-11709 Jun 06 j 08:55	0° \mathbb{H}	
max. Earth dist.	-11715 Nov 15 j 11:54	3° \mathbb{M} 44'31	6.08696 AU	retrograde	-11709 Sep 22 j 04:09	14° \mathbb{H} 33'44	
morning rise	-11715 Nov 27 j 21:30	6° \mathbb{M} 38'09		opposition	-11709 Nov 21 j 05:16	9° \mathbb{H} 41'03	0°37'44
retrograde	-11714 Apr 08 j 08:41	26° \mathbb{M} 29'30		min. Earth dist.	-11709 Nov 21 j 21:56	9° \mathbb{H} 35'40	4.32206 AU
opposition	-11714 Jun 07 j 12:37	21° \mathbb{M} 24'58	-1°07'53	direct	-11708 Jan 22 j 11:53	4° \mathbb{H} 39'06	
min. Earth dist.	-11714 Jun 06 j 18:36	21° \mathbb{M} 31'04	4.07391 AU	evening set	-11708 May 29 j 11:12	22° \mathbb{H} 51'21	
direct	-11714 Aug 04 j 18:18	16° \mathbb{M} 28'42		max. Earth dist.	-11708 Jun 10 j 03:14	25° \mathbb{H} 27'28	6.33220 AU
	-11714 Nov 13 j 04:05	0° \mathbb{U}					
evening set	-11714 Dec 07 j 08:33	5° \mathbb{U} 29'16		conjunction	-11708 Jun 11 j 05:54	25° \mathbb{H} 42'23	0°52'56
				minimum elong	-11708 Jun 11 j 05:50	25° \mathbb{H} 42'20	0°52'51
conjunction	-11714 Dec 20 j 23:11	8° \mathbb{U} 39'31	-1°11'01	morning rise	-11708 Jun 23 j 21:41	28° \mathbb{H} 31'57	
minimum elong	-11714 Dec 20 j 23:04	8° \mathbb{U} 39'27	1°11'04		-11708 Jun 30 j 12:57	0° \mathbb{Y}	
max. Earth dist.	-11714 Dec 22 j 03:13	8° \mathbb{U} 55'52	6.07112 AU	retrograde	-11708 Oct 23 j 03:02	15° \mathbb{Y} 53'50	
morning rise	-11713 Jan 03 j 16:28	11° \mathbb{U} 51'04		opposition	-11708 Dec 22 j 21:25	11° \mathbb{Y} 02'03	1°49'37
	-11713 Apr 12 j 02:37	0° \mathbb{M}		min. Earth dist.	-11708 Dec 23 j 16:40	10° \mathbb{Y} 55'56	4.33319 AU
retrograde	-11713 May 14 j 00:37	1° \mathbb{M} 37'38		direct	-11707 Feb 23 j 09:17	6° \mathbb{Y} 03'01	
	-11713 Jun 14 j 14:36	30° \mathbb{R} \mathbb{U}		evening set	-11707 Jun 29 j 18:38	24° \mathbb{Y} 05'04	
opposition	-11713 Jul 12 j 10:34	26° \mathbb{U} 32'58	-2°15'08	max. Earth dist.	-11707 Jul 11 j 04:44	26° \mathbb{Y} 38'59	6.32202 AU
min. Earth dist.	-11713 Jul 11 j 17:17	26° \mathbb{U} 38'53	4.08167 AU				
direct	-11713 Sep 08 j 18:33	21° \mathbb{U} 33'17		conjunction	-11707 Jul 12 j 05:22	26° \mathbb{Y} 52'51	1°32'09
	-11713 Nov 24 j 10:47	0° \mathbb{M}		minimum elong	-11707 Jul 12 j 05:18	26° \mathbb{Y} 52'49	1°32'25
evening set	-11712 Jan 13 j 12:20	10° \mathbb{M} 46'06		morning rise	-11707 Jul 24 j 14:35	29° \mathbb{Y} 39'56	
					-11707 Jul 26 j 02:29	0° \mathbb{B}	
conjunction	-11712 Jan 27 j 05:24	13° \mathbb{M} 55'50	-1°41'21		-11707 Oct 15 j 22:33	15° \mathbb{B}	
minimum elong	-11712 Jan 27 j 05:21	13° \mathbb{M} 55'49	1°41'47	retrograde	-11707 Nov 24 j 17:34	17° \mathbb{B} 21'31	
max. Earth dist.	-11712 Jan 28 j 03:21	14° \mathbb{M} 08'31	6.10054 AU		-11706 Jan 04 j 03:35	15° \mathbb{R} \mathbb{B}	
	-11712 Jan 31 j 20:27	15° \mathbb{M}		opposition	-11706 Jan 25 j 03:30	12° \mathbb{B} 28'41	2°29'49
morning rise	-11712 Feb 09 j 22:57	17° \mathbb{M} 05'44		min. Earth dist.	-11706 Jan 25 j 17:49	12° \mathbb{B} 24'09	4.30366 AU
	-11712 Apr 11 j 22:32	0° \mathbb{A}		direct	-11706 Mar 28 j 02:44	7° \mathbb{B} 32'41	
retrograde	-11712 Jun 16 j 17:44	6° \mathbb{A} 21'27			-11706 Jun 10 j 06:01	15° \mathbb{B}	
opposition	-11712 Aug 14 j 15:14	1° \mathbb{A} 18'58	-2°33'00	evening set	-11706 Jul 30 j 20:48	25° \mathbb{B} 33'22	
min. Earth dist.	-11712 Aug 14 j 06:10	1° \mathbb{A} 22'04	4.13061 AU				

Attention, astronomical year style is used: The year -11706 in astronomical counting style is the year 11707 BCE in historical counting style.

conjunction	-11706 Aug 12 j 04:58	28°♄21'42	1°44'35			-11700 Mar 21 j 19:10	0°♄	
minimum elong	-11706 Aug 12 j 04:59	28°♄21'42	1°45'07	retrograde		-11700 Jun 21 j 11:06	11°♄18'44	
max. Earth dist.	-11706 Aug 11 j 14:42	28°♄13'34	6.27453 AU	opposition		-11700 Aug 19 j 09:35	6°♄16'39	-2°30'55
	-11706 Aug 19 j 09:30	0°♄		min. Earth dist.		-11700 Aug 19 j 00:32	6°♄19'44	4.14516 AU
morning rise	-11706 Aug 24 j 13:18	1°♄10'16		direct		-11700 Oct 17 j 16:43	1°♄13'40	
retrograde	-11706 Dec 28 j 12:59	19°♄27'18		evening set		-11699 Feb 23 j 08:10	20°♄18'55	
opposition	-11705 Feb 28 j 04:34	14°♄31'51	2°25'42					
min. Earth dist.	-11705 Feb 28 j 10:52	14°♄29'50	4.24165 AU	conjunction		-11699 Mar 08 j 23:34	23°♄24'32	-1°31'31
direct	-11705 Apr 30 j 04:48	9°♄38'10		minimum elong		-11699 Mar 08 j 23:39	23°♄24'34	1°32'10
evening set	-11705 Aug 31 j 12:09	27°♄45'59		max. Earth dist.		-11699 Mar 09 j 03:51	23°♄26'57	6.18082 AU
	-11705 Sep 10 j 04:57	0°♄		morning rise		-11699 Mar 22 j 13:25	26°♄29'10	
						-11699 Apr 07 j 08:06	0°♄	
conjunction	-11705 Sep 13 j 00:46	0°♄39'09	1°25'17	retrograde		-11699 Jul 24 j 14:36	14°♄50'46	
minimum elong	-11705 Sep 13 j 00:51	0°♄39'12	1°25'57	opposition		-11699 Sep 21 j 13:57	9°♄52'22	-1°49'35
max. Earth dist.	-11705 Sep 12 j 23:06	0°♄38'11	6.20322 AU	min. Earth dist.		-11699 Sep 21 j 16:38	9°♄51'28	4.21942 AU
morning rise	-11705 Sep 25 j 15:42	3°♄33'36		direct		-11699 Nov 21 j 03:39	4°♄48'02	
retrograde	-11704 Feb 01 j 11:37	22°♄32'27		evening set		-11698 Mar 30 j 08:38	23°♄34'55	
opposition	-11704 Apr 02 j 23:31	17°♄33'21	1°34'58					
min. Earth dist.	-11704 Apr 02 j 17:59	17°♄35'09	4.16562 AU	conjunction		-11698 Apr 12 j 19:36	26°♄35'47	-0°50'12
direct	-11704 Jun 01 j 17:30	12°♄40'27		minimum elong		-11698 Apr 12 j 19:41	26°♄35'49	0°50'48
	-11704 Sep 27 j 20:55	0°♄		max. Earth dist.		-11698 Apr 12 j 08:27	26°♄29'31	6.25532 AU
evening set	-11704 Oct 02 j 10:35	1°♄03'19		morning rise		-11698 Apr 26 j 03:18	29°♄34'57	
						-11698 Apr 28 j 00:17	0°♄	
conjunction	-11704 Oct 15 j 09:12	4°♄04'03	0°37'51			-11698 Jul 18 j 15:46	15°♄	
minimum elong	-11704 Oct 15 j 09:16	4°♄04'05	0°38'25	retrograde		-11698 Aug 25 j 17:04	17°♄16'53	
max. Earth dist.	-11704 Oct 16 j 00:22	4°♄12'53	6.13024 AU			-11698 Oct 03 j 00:37	15°♄	
morning rise	-11704 Oct 28 j 11:06	7°♄06'40		opposition		-11698 Oct 24 j 04:08	12°♄22'05	-0°34'50
	-11704 Dec 02 j 23:57	15°♄		min. Earth dist.		-11698 Oct 24 j 15:49	12°♄18'15	4.28700 AU
retrograde	-11703 Mar 08 j 09:41	26°♄41'49		direct		-11698 Dec 24 j 20:03	7°♄18'20	
opposition	-11703 May 08 j 06:22	21°♄39'15	0°10'20			-11697 Mar 11 j 05:43	15°♄	
min. Earth dist.	-11703 May 07 j 16:13	21°♄43'57	4.10112 AU	asc. node		-11697 Apr 05 j 02:37	19°♄48'18	
desc. node	-11703 Jun 21 j 03:11	17°♄07'36		evening set		-11697 May 02 j 17:09	25°♄44'24	
direct	-11703 Jul 05 j 23:48	16°♄45'18						
	-11703 Oct 13 j 02:33	0°♄		conjunction		-11697 May 15 j 20:02	28°♄39'47	0°05'56
evening set	-11703 Nov 06 j 04:49	5°♄28'43		minimum elong		-11697 May 15 j 20:02	28°♄39'47	0°05'34
				behind sun begin		-11697 May 15 j 12:16	28°♄35'28	
conjunction	-11703 Nov 19 j 13:38	8°♄36'11	-0°23'40	behind sun end		-11697 May 16 j 03:49	28°♄44'06	
minimum elong	-11703 Nov 19 j 13:35	8°♄36'09	0°23'24	max. Earth dist.		-11697 May 14 j 19:49	28°♄26'16	6.31149 AU
max. Earth dist.	-11703 Nov 20 j 15:22	8°♄51'14	6.08066 AU			-11697 May 21 j 19:42	0°♄	
morning rise	-11703 Dec 03 j 02:09	11°♄45'34		morning rise		-11697 May 28 j 19:37	1°♄33'25	
	-11702 Mar 12 j 02:37	0°♄		retrograde		-11697 Sep 26 j 12:05	18°♄54'44	
retrograde	-11702 Apr 13 j 11:27	1°♄38'25		opposition		-11697 Nov 25 j 14:43	14°♄02'19	0°48'38
	-11702 May 15 j 13:25	30°♄		min. Earth dist.		-11697 Nov 26 j 09:43	13°♄56'11	4.32748 AU
opposition	-11702 Jun 12 j 13:29	26°♄33'45	-1°19'44	direct		-11696 Jan 27 j 00:20	9°♄00'38	
min. Earth dist.	-11702 Jun 11 j 17:54	26°♄40'23	4.07178 AU	evening set		-11696 Jun 02 j 17:33	27°♄10'48	
direct	-11702 Aug 09 j 17:48	21°♄37'05		max. Earth dist.		-11696 Jun 14 j 07:28	29°♄45'48	6.33274 AU
	-11702 Oct 24 j 11:56	0°♄						
evening set	-11702 Dec 12 j 15:42	10°♄40'11		conjunction		-11696 Jun 15 j 11:09	0°♄01'17	0°59'25
				minimum elong		-11696 Jun 15 j 11:04	0°♄01'15	0°59'23
conjunction	-11702 Dec 26 j 07:00	13°♄50'33	-1°17'19			-11696 Jun 15 j 08:51	0°♄	
minimum elong	-11702 Dec 26 j 06:54	13°♄50'29	1°17'27	morning rise		-11696 Jun 28 j 01:49	2°♄50'22	
max. Earth dist.	-11702 Dec 27 j 12:19	14°♄07'38	6.07357 AU	retrograde		-11696 Oct 27 j 11:02	20°♄14'11	
morning rise	-11701 Jan 09 j 00:29	17°♄02'01		opposition		-11696 Dec 27 j 08:18	15°♄22'23	1°57'13
	-11701 Mar 11 j 16:07	0°♄		min. Earth dist.		-11696 Dec 28 j 03:11	15°♄16'23	4.32914 AU
retrograde	-11701 May 19 j 02:07	6°♄45'04		direct		-11695 Feb 27 j 18:04	10°♄23'43	
opposition	-11701 Jul 17 j 09:16	1°♄40'34	-2°20'57	evening set		-11695 Jul 04 j 00:01	28°♄26'15	
min. Earth dist.	-11701 Jul 16 j 17:03	1°♄46'07	4.08889 AU			-11695 Jul 10 j 22:51	0°♄	
	-11701 Jul 29 j 20:47	30°♄		max. Earth dist.		-11695 Jul 15 j 10:00	1°♄00'27	6.31351 AU
direct	-11701 Sep 13 j 20:19	26°♄40'27						
	-11701 Oct 29 j 17:42	0°♄		conjunction		-11695 Jul 16 j 10:04	1°♄14'03	1°35'32
	-11700 Jan 14 j 23:33	15°♄		minimum elong		-11695 Jul 16 j 10:00	1°♄14'01	1°35'51
evening set	-11700 Jan 18 j 19:26	15°♄52'29		morning rise		-11695 Jul 28 j 18:47	4°♄01'15	
						-11695 Sep 20 j 03:24	15°♄	
conjunction	-11700 Feb 01 j 12:27	19°♄01'40	-1°42'43	retrograde		-11695 Nov 29 j 08:41	21°♄48'34	
minimum elong	-11700 Feb 01 j 12:25	19°♄01'39	1°43'11	opposition		-11694 Jan 29 j 18:14	16°♄55'32	2°32'01
max. Earth dist.	-11700 Feb 02 j 09:48	19°♄13'58	6.11189 AU	min. Earth dist.		-11694 Jan 30 j 09:04	16°♄50'50	4.29134 AU
morning rise	-11700 Feb 15 j 05:39	22°♄10'52				-11694 Feb 14 j 09:10	15°♄	

Attention, astronomical year style is used: The year -11694 in astronomical counting style is the year 11695 BCE in historical counting style.

direct	-11694 Apr 01 j 15:11	11°  59'54		conjunction	-11688 Feb 06 j 18:35	24°  06'05	-1°43'21
	-11694 May 16 j 21:19	15°  8		minimum elong	-11688 Feb 06 j 18:34	24°  06'04	1°43'51
	-11694 Aug 03 j 22:55	0°  II		max. Earth dist.	-11688 Feb 07 j 12:50	24°  16'34	6.12260 AU
evening set	-11694 Aug 04 j 04:35	0°  II03'13		morning rise	-11688 Feb 20 j 11:30	27°  14'36	
					-11688 Mar 03 j 16:11	0°  J	
conjunction	-11694 Aug 16 j 13:00	2°  II52'16	1°43'45	retrograde	-11688 Jun 26 j 05:42	16°  J15'27	
minimum elong	-11694 Aug 16 j 13:01	2°  II52'16	1°44'19	opposition	-11688 Aug 24 j 03:57	11°  J13'49	-2°27'52
max. Earth dist.	-11694 Aug 15 j 23:01	2°  II44'16	6.25936 AU	min. Earth dist.	-11688 Aug 23 j 21:10	11°  J16'08	4.15718 AU
morning rise	-11694 Aug 28 j 22:04	5°  II41'44		direct	-11688 Oct 22 j 16:15	6°  J10'32	
retrograde	-11693 Jan 02 j 08:23	24°  II06'45		evening set	-11687 Feb 28 j 09:26	25°  J12'56	
opposition	-11693 Mar 04 j 23:52	19°  II10'50	2°21'15				
min. Earth dist.	-11693 Mar 05 j 03:53	19°  II09'33	4.22483 AU	conjunction	-11687 Mar 14 j 00:32	28°  J17'53	-1°27'12
direct	-11693 May 04 j 18:05	14°  II17'22		minimum elong	-11687 Mar 14 j 00:37	28°  J17'56	1°27'51
	-11693 Aug 25 j 03:12	0°  S		max. Earth dist.	-11687 Mar 14 j 03:30	28°  J19'34	6.19329 AU
evening set	-11693 Sep 05 j 01:10	2°  S29'15			-11687 Mar 21 j 12:45	0°  S	
				morning rise	-11687 Mar 27 j 13:28	1°  S21'41	
conjunction	-11693 Sep 17 j 15:12	5°  S23'43	1°20'01	retrograde	-11687 Jul 29 j 03:58	19°  S36'25	
minimum elong	-11693 Sep 17 j 15:17	5°  S23'46	1°20'41	opposition	-11687 Sep 26 j 05:01	14°  S38'36	-1°40'30
max. Earth dist.	-11693 Sep 17 j 17:18	5°  S24'57	6.18637 AU	min. Earth dist.	-11687 Sep 26 j 08:38	14°  S37'24	4.23115 AU
morning rise	-11693 Sep 30 j 07:28	8°  S19'33		direct	-11687 Nov 25 j 22:12	9°  S34'17	
retrograde	-11692 Feb 06 j 14:52	27°  S26'22		evening set	-11686 Apr 04 j 03:58	28°  S17'51	
opposition	-11692 Apr 07 j 23:27	22°  S26'47	1°24'27		-11686 Apr 11 j 18:52	0°  S	
min. Earth dist.	-11692 Apr 07 j 16:57	22°  S28'53	4.14999 AU				
direct	-11692 Jun 06 j 13:37	17°  S33'54		conjunction	-11686 Apr 17 j 13:50	1°  S17'55	-0°42'47
	-11692 Sep 10 j 15:12	0°  S		minimum elong	-11686 Apr 17 j 13:54	1°  S17'57	0°43'22
evening set	-11692 Oct 07 j 07:02	6°  S01'07		max. Earth dist.	-11686 Apr 16 j 22:48	1°  S09'29	6.26551 AU
				morning rise	-11686 Apr 30 j 20:40	4°  S16'18	
conjunction	-11692 Oct 20 j 07:09	9°  S03'08	0°29'26		-11686 Jun 22 j 00:15	15°  S	
minimum elong	-11692 Oct 20 j 07:13	9°  S03'10	0°29'59	retrograde	-11686 Aug 30 j 05:46	21°  S53'55	
max. Earth dist.	-11692 Oct 21 j 00:05	9°  S13'01	6.11731 AU	opposition	-11686 Oct 28 j 18:02	16°  S59'34	-0°23'01
morning rise	-11692 Nov 02 j 10:58	12°  S07'08		min. Earth dist.	-11686 Oct 29 j 07:57	16°  S55'00	4.29480 AU
	-11692 Nov 15 j 00:14	15°  S			-11686 Nov 13 j 09:02	15°  S	
	-11691 Feb 07 j 07:51	0°  S		direct	-11686 Dec 29 j 14:08	11°  S55'59	
retrograde	-11691 Mar 13 j 13:12	1°  S47'26		asc. node	-11685 Feb 12 j 18:04	14°  S51'50	
	-11691 Apr 16 j 14:38	30°  S			-11685 Feb 13 j 20:28	15°  S	
desc. node	-11691 Apr 30 j 03:06	28°  S27'50			-11685 May 05 j 19:51	0°  S	
opposition	-11691 May 13 j 08:17	26°  S44'24	-0°03'07	evening set	-11685 May 07 j 07:02	0°  S19'28	
min. Earth dist.	-11691 May 12 j 15:30	26°  S49'59	4.09210 AU	max. Earth dist.	-11685 May 19 j 08:31	3°  S00'35	6.31639 AU
direct	-11691 Jul 10 j 21:47	21°  S50'11					
	-11691 Sep 23 j 12:28	0°  S		conjunction	-11685 May 20 j 08:50	3°  S14'09	0°13'59
evening set	-11691 Nov 11 j 08:29	10°  S37'10		minimum elong	-11685 May 20 j 08:49	3°  S14'08	0°13'39
				behind sun begin	-11685 May 20 j 04:25	3°  S11'42	
conjunction	-11691 Nov 24 j 18:37	13°  S45'22	-0°32'26	behind sun end	-11685 May 20 j 13:12	3°  S16'35	
minimum elong	-11691 Nov 24 j 18:34	13°  S45'20	0°32'12	morning rise	-11685 Jun 02 j 07:00	6°  S07'03	
max. Earth dist.	-11691 Nov 25 j 23:08	14°  S02'03	6.07618 AU	retrograde	-11685 Sep 30 j 23:01	23°  S27'35	
morning rise	-11691 Dec 08 j 08:05	16°  S55'21		opposition	-11685 Nov 30 j 04:59	18°  S35'23	0°59'43
	-11690 Feb 08 j 09:35	0°  S		min. Earth dist.	-11685 Nov 30 j 23:40	18°  S29'23	4.32932 AU
retrograde	-11690 Apr 18 j 16:25	6°  S48'30		direct	-11684 Jan 31 j 14:27	13°  S34'07	
opposition	-11690 Jun 17 j 14:38	1°  S43'37	-1°31'03		-11684 May 30 j 09:48	0°  S	
min. Earth dist.	-11690 Jun 16 j 19:28	1°  S50'08	4.07206 AU	evening set	-11684 Jun 07 j 04:37	1°  S43'05	
	-11690 Jun 30 j 14:30	30°  S					
direct	-11690 Aug 14 j 19:55	26°  S46'26		conjunction	-11684 Jun 19 j 20:48	4°  S33'03	1°05'53
	-11690 Sep 28 j 15:10	0°  S		minimum elong	-11684 Jun 19 j 20:43	4°  S33'00	1°05'54
evening set	-11690 Dec 17 j 23:15	15°  S51'06		max. Earth dist.	-11684 Jun 18 j 16:13	4°  S17'01	6.33129 AU
				morning rise	-11684 Jul 02 j 10:30	7°  S21'44	
conjunction	-11690 Dec 31 j 15:02	19°  S01'26	-1°23'03	retrograde	-11684 Nov 01 j 02:52	24°  S48'08	
minimum elong	-11690 Dec 31 j 14:55	19°  S01'22	1°23'15	opposition	-11683 Jan 01 j 00:54	19°  S56'19	2°04'34
max. Earth dist.	-11689 Jan 01 j 20:32	19°  S18'35	6.07804 AU	min. Earth dist.	-11683 Jan 01 j 20:30	19°  S50'05	4.32470 AU
morning rise	-11689 Jan 14 j 08:44	22°  S12'42		direct	-11683 Mar 04 j 10:21	14°  S58'04	
	-11689 Feb 18 j 10:11	0°  S			-11683 Jun 24 j 19:59	0°  S	
retrograde	-11689 May 24 j 01:11	11°  S51'12		evening set	-11683 Jul 08 j 10:12	3°  S00'46	
opposition	-11689 Jul 22 j 07:15	6°  S46'54	-2°25'45				
min. Earth dist.	-11689 Jul 21 j 14:56	6°  S52'30	4.09705 AU	conjunction	-11683 Jul 20 j 19:43	5°  S48'33	1°38'34
direct	-11689 Sep 18 j 19:18	1°  S46'20		minimum elong	-11683 Jul 20 j 19:39	5°  S48'31	1°38'55
	-11689 Dec 28 j 08:10	15°  S		max. Earth dist.	-11683 Jul 19 j 20:57	5°  S35'40	6.30643 AU
evening set	-11688 Jan 24 j 01:47	20°  S57'27		morning rise	-11683 Aug 02 j 04:03	8°  S35'51	
					-11683 Aug 31 j 14:51	15°  S	

Attention, astronomical year style is used: The year -11683 in astronomical counting style is the year 11684 BCE in historical counting style.

retrograde	-11683 Dec 04 j 02:12	26° ♁ 28'12		direct	-11677 Sep 23 j 16:39	6° ♁ 41'18	
opposition	-11682 Feb 03 j 13:53	21° ♁ 34'51	2°33'24		-11677 Dec 09 j 04:20	15° ♁	
min. Earth dist.	-11682 Feb 04 j 02:20	21° ♁ 30'54	4.28249 AU	evening set	-11676 Jan 29 j 04:06	25° ♁ 52'03	
direct	-11682 Apr 06 j 06:15	16° ♁ 39'39					
	-11682 Jul 18 j 09:39	0° ♁		conjunction	-11676 Feb 11 j 21:00	29° ♁ 00'19	-1°43'13
evening set	-11682 Aug 08 j 16:16	4° ♁ 43'57		minimum elong	-11676 Feb 11 j 21:00	29° ♁ 00'19	1°43'46
				max. Earth dist.	-11676 Feb 12 j 14:03	29° ♁ 10'06	6.13079 AU
conjunction	-11682 Aug 21 j 01:04	7° ♁ 33'32	1°42'18		-11676 Feb 16 j 05:03	0° ♁	
minimum elong	-11682 Aug 21 j 01:06	7° ♁ 33'33	1°42'54	morning rise	-11676 Feb 25 j 13:22	2° ♁ 08'16	
max. Earth dist.	-11682 Aug 20 j 13:58	7° ♁ 27'10	6.24962 AU	retrograde	-11676 Jun 30 j 21:32	21° ♁ 03'14	
morning rise	-11682 Sep 02 j 10:40	10° ♁ 23'40		opposition	-11676 Aug 28 j 19:02	16° ♁ 02'10	-2°23'57
retrograde	-11681 Jan 07 j 08:28	28° ♁ 54'32		min. Earth dist.	-11676 Aug 28 j 13:44	16° ♁ 03'58	4.16564 AU
opposition	-11681 Mar 09 j 22:44	23° ♁ 58'08	2°15'47	direct	-11676 Oct 27 j 10:24	10° ♁ 58'40	
min. Earth dist.	-11681 Mar 10 j 01:46	23° ♁ 57'10	4.21491 AU	evening set	-11675 Mar 05 j 07:57	29° ♁ 59'39	
direct	-11681 May 09 j 14:05	19° ♁ 04'53			-11675 Mar 05 j 08:35	0° ♁	
	-11681 Aug 07 j 16:25	0° ♁					
evening set	-11681 Sep 09 j 16:27	7° ♁ 18'05		conjunction	-11675 Mar 18 j 22:28	3° ♁ 04'05	-1°22'23
				minimum elong	-11675 Mar 18 j 22:33	3° ♁ 04'08	1°23'03
conjunction	-11681 Sep 22 j 07:37	10° ♁ 13'28	1°14'12	max. Earth dist.	-11675 Mar 18 j 21:04	3° ♁ 03'18	6.20132 AU
minimum elong	-11681 Sep 22 j 07:42	10° ♁ 13'31	1°14'51	morning rise	-11675 Apr 01 j 10:57	6° ♁ 07'21	
max. Earth dist.	-11681 Sep 22 j 11:42	10° ♁ 15'49	6.17737 AU	retrograde	-11675 Aug 02 j 17:15	24° ♁ 17'11	
morning rise	-11681 Oct 05 j 01:27	13° ♁ 10'20		opposition	-11675 Sep 30 j 18:52	19° ♁ 19'54	-1°30'57
	-11680 Jan 02 j 17:43	0° ♁		min. Earth dist.	-11675 Oct 01 j 00:34	19° ♁ 17'59	4.23801 AU
retrograde	-11680 Feb 11 j 14:33	2° ♁ 21'48		direct	-11675 Nov 30 j 16:25	14° ♁ 15'33	
	-11680 Mar 22 j 14:36	30° ♁			-11674 Mar 26 j 11:05	0° ♁	
opposition	-11680 Apr 12 j 23:24	27° ♁ 21'38	1°13'19	evening set	-11674 Apr 08 j 21:44	2° ♁ 57'28	
min. Earth dist.	-11680 Apr 12 j 14:09	27° ♁ 24'40	4.14266 AU				
direct	-11680 Jun 11 j 09:05	22° ♁ 28'41		conjunction	-11674 Apr 22 j 06:51	5° ♁ 57'00	-0°35'09
	-11680 Aug 22 j 04:25	0° ♁		minimum elong	-11674 Apr 22 j 06:55	5° ♁ 57'02	0°35'42
evening set	-11680 Oct 12 j 03:21	10° ♁ 57'28		max. Earth dist.	-11674 Apr 21 j 15:17	5° ♁ 48'17	6.27098 AU
				morning rise	-11674 May 05 j 12:31	8° ♁ 54'45	
conjunction	-11680 Oct 25 j 04:59	14° ♁ 00'21	0°20'55		-11674 Jun 02 j 16:27	15° ♁	
minimum elong	-11680 Oct 25 j 05:01	14° ♁ 00'23	0°21'25	retrograde	-11674 Sep 03 j 17:44	26° ♁ 29'52	
max. Earth dist.	-11680 Oct 26 j 00:37	14° ♁ 11'50	6.11236 AU	opposition	-11674 Nov 02 j 07:55	21° ♁ 35'59	-0°11'06
	-11680 Oct 29 j 11:03	15° ♁		min. Earth dist.	-11674 Nov 02 j 22:17	21° ♁ 31'17	4.29848 AU
morning rise	-11680 Nov 07 j 10:11	17° ♁ 05'12		asc. node	-11674 Dec 23 j 18:15	16° ♁ 42'50	
	-11679 Jan 07 j 21:20	0° ♁		direct	-11673 Jan 03 j 05:42	16° ♁ 32'43	
desc. node	-11679 Mar 09 j 23:31	6° ♁ 40'15			-11673 Apr 19 j 04:34	0° ♁	
retrograde	-11679 Mar 18 j 15:46	6° ♁ 47'28		evening set	-11673 May 11 j 21:21	4° ♁ 54'55	
opposition	-11679 May 18 j 07:43	1° ♁ 44'02	-0°16'15				
min. Earth dist.	-11679 May 17 j 14:55	1° ♁ 49'38	4.08982 AU	conjunction	-11673 May 24 j 21:42	7° ♁ 48'59	0°21'59
	-11679 May 31 j 14:22	30° ♁		minimum elong	-11673 May 24 j 21:40	7° ♁ 48'58	0°21'41
direct	-11679 Jul 15 j 20:45	26° ♁ 49'24		max. Earth dist.	-11673 May 23 j 19:24	7° ♁ 34'17	6.31803 AU
	-11679 Aug 29 j 08:11	0° ♁		morning rise	-11673 Jun 06 j 18:50	10° ♁ 41'22	
evening set	-11679 Nov 16 j 09:33	15° ♁ 37'53		retrograde	-11673 Oct 05 j 13:18	28° ♁ 02'13	
				opposition	-11673 Dec 04 j 20:29	23° ♁ 10'12	1°10'31
conjunction	-11679 Nov 29 j 20:41	18° ♁ 46'28	-0°40'42	min. Earth dist.	-11673 Dec 05 j 15:58	23° ♁ 03'57	4.32902 AU
minimum elong	-11679 Nov 29 j 20:37	18° ♁ 46'26	0°40'32	direct	-11672 Feb 05 j 06:51	18° ♁ 09'20	
max. Earth dist.	-11679 Dec 01 j 01:58	19° ♁ 03'35	6.07661 AU		-11672 May 13 j 09:46	0° ♁	
morning rise	-11679 Dec 13 j 11:05	21° ♁ 56'46		evening set	-11672 Jun 11 j 16:17	6° ♁ 17'35	
	-11678 Jan 18 j 15:12	0° ♁		max. Earth dist.	-11672 Jun 23 j 04:59	8° ♁ 52'17	6.32903 AU
retrograde	-11678 Apr 23 j 15:19	11° ♁ 48'21					
opposition	-11678 Jun 22 j 11:39	6° ♁ 43'25	-1°41'16	conjunction	-11672 Jun 24 j 07:28	9° ♁ 07'08	1°11'59
min. Earth dist.	-11678 Jun 21 j 16:11	6° ♁ 50'02	4.07538 AU	minimum elong	-11672 Jun 24 j 07:23	9° ♁ 07'05	1°12'03
direct	-11678 Aug 19 j 16:13	1° ♁ 45'45		morning rise	-11672 Jul 06 j 20:00	11° ♁ 55'27	
evening set	-11678 Dec 23 j 02:51	20° ♁ 51'15		retrograde	-11672 Nov 05 j 17:50	29° ♁ 24'39	
				opposition	-11671 Jan 05 j 18:44	24° ♁ 32'43	2°11'12
conjunction	-11677 Jan 05 j 18:50	24° ♁ 01'24	-1°27'58	min. Earth dist.	-11671 Jan 06 j 12:34	24° ♁ 27'04	4.32089 AU
minimum elong	-11677 Jan 05 j 18:44	24° ♁ 01'20	1°28'13	direct	-11671 Mar 09 j 01:41	19° ♁ 35'01	
max. Earth dist.	-11677 Jan 06 j 21:58	24° ♁ 17'09	6.08354 AU		-11671 Jun 07 j 08:32	0° ♁	
morning rise	-11677 Jan 19 j 12:40	27° ♁ 12'24		evening set	-11671 Jul 12 j 21:02	7° ♁ 37'18	
	-11677 Jan 31 j 18:21	0° ♁		max. Earth dist.	-11671 Jul 24 j 08:17	10° ♁ 12'46	6.30110 AU
	-11677 Apr 25 j 13:45	15° ♁					
retrograde	-11677 May 28 j 20:22	16° ♁ 46'25		conjunction	-11671 Jul 25 j 05:52	10° ♁ 25'01	1°41'00
	-11677 Jun 30 j 18:45	15° ♁		minimum elong	-11671 Jul 25 j 05:49	10° ♁ 24'59	1°41'24
min. Earth dist.	-11677 Jul 26 j 10:41	11° ♁ 47'19	4.10419 AU	morning rise	-11671 Aug 06 j 14:01	13° ♁ 12'25	
opposition	-11677 Jul 27 j 01:09	11° ♁ 42'21	-2°29'19		-11671 Aug 14 j 14:21	15° ♁	

Attention, astronomical year style is used: The year -11671 in astronomical counting style is the year 11672 BCE in historical counting style.

	-11671 Nov 11 j 07:14	0°♐		retrograde	-11665 Jun 02 j 17:38	21°♐44'34	
retrograde	-11671 Dec 08 j 22:20	1°♐09'10		opposition	-11665 Jul 31 j 19:55	16°♐40'50	-2°31'51
	-11670 Jan 05 j 14:50	30°♐8		min. Earth dist.	-11665 Jul 31 j 06:45	16°♐45'21	4.10953 AU
opposition	-11670 Feb 08 j 10:16	26°♐15'26	2°33'48		-11665 Aug 13 j 08:12	15°♐	
min. Earth dist.	-11670 Feb 08 j 22:04	26°♐11'42	4.27588 AU	direct	-11665 Sep 28 j 13:41	11°♐39'23	
direct	-11670 Apr 11 j 00:29	21°♐20'35			-11665 Nov 13 j 22:07	15°♐	
	-11670 Jun 30 j 01:17	0°♐			-11664 Jan 30 j 15:12	0°♐	
evening set	-11670 Aug 13 j 03:57	9°♐24'59		evening set	-11664 Feb 03 j 07:41	0°♐50'14	
conjunction	-11670 Aug 25 j 13:17	12°♐15'05	1°40'12	conjunction	-11664 Feb 17 j 00:20	3°♐58'09	-1°42'21
minimum elong	-11670 Aug 25 j 13:20	12°♐15'06	1°40'49	minimum elong	-11664 Feb 17 j 00:21	3°♐58'10	1°42'55
max. Earth dist.	-11670 Aug 25 j 04:33	12°♐10'04	6.24219 AU	max. Earth dist.	-11664 Feb 17 j 13:41	4°♐05'48	6.13748 AU
morning rise	-11670 Sep 06 j 23:38	15°♐05'51		morning rise	-11664 Mar 01 j 16:32	7°♐05'41	
	-11670 Nov 22 j 14:47	0°♐		retrograde	-11664 Jul 05 j 14:08	25°♐55'16	
retrograde	-11669 Jan 12 j 05:04	3°♐41'36		opposition	-11664 Sep 02 j 11:47	20°♐54'38	-2°18'59
	-11669 Mar 04 j 22:59	30°♐		min. Earth dist.	-11664 Sep 02 j 07:56	20°♐55'57	4.17299 AU
opposition	-11669 Mar 14 j 20:39	28°♐44'41	2°09'25	direct	-11664 Nov 01 j 07:16	15°♐50'51	
min. Earth dist.	-11669 Mar 14 j 21:14	28°♐44'30	4.20708 AU		-11663 Feb 16 j 07:51	0°♐	
direct	-11669 May 14 j 07:29	23°♐51'37		evening set	-11663 Mar 10 j 07:40	4°♐50'29	
	-11669 Jul 18 j 07:50	0°♐					
evening set	-11669 Sep 14 j 07:20	12°♐05'45		conjunction	-11663 Mar 23 j 21:48	7°♐54'28	-1°16'57
conjunction	-11669 Sep 26 j 23:46	15°♐02'01	1°07'56	minimum elong	-11663 Mar 23 j 21:54	7°♐54'31	1°17'36
minimum elong	-11669 Sep 26 j 23:51	15°♐02'04	1°08'35	max. Earth dist.	-11663 Mar 23 j 19:09	7°♐52'58	6.20902 AU
max. Earth dist.	-11669 Sep 27 j 06:02	15°♐05'40	6.16981 AU	morning rise	-11663 Apr 06 j 09:27	10°♐57'06	
morning rise	-11669 Oct 09 j 19:01	17°♐59'53		retrograde	-11663 Aug 07 j 08:30	29°♐02'02	
	-11669 Dec 05 j 19:05	0°♐		opposition	-11663 Oct 05 j 10:21	24°♐05'18	-1°20'39
retrograde	-11668 Feb 16 j 15:47	7°♐15'41		min. Earth dist.	-11663 Oct 05 j 17:25	24°♐02'56	4.24523 AU
opposition	-11668 Apr 17 j 22:23	2°♐15'00	1°01'46	direct	-11663 Dec 05 j 11:21	19°♐01'01	
min. Earth dist.	-11668 Apr 17 j 12:33	2°♐18'13	4.13568 AU		-11662 Mar 08 j 15:46	0°♐	
	-11668 May 05 j 19:53	30°♐		evening set	-11662 Apr 13 j 16:51	7°♐40'50	
direct	-11668 Jun 16 j 05:56	27°♐21'54		max. Earth dist.	-11662 Apr 26 j 06:58	10°♐29'40	6.27733 AU
	-11668 Jul 26 j 22:03	0°♐					
	-11668 Oct 13 j 04:22	15°♐		conjunction	-11662 Apr 27 j 00:54	10°♐39'42	-0°27'12
evening set	-11668 Oct 16 j 23:07	15°♐52'34		minimum elong	-11662 Apr 27 j 00:57	10°♐39'44	0°27'43
conjunction	-11668 Oct 30 j 02:15	18°♐56'21	0°12'19	morning rise	-11662 May 10 j 05:37	13°♐36'49	
minimum elong	-11668 Oct 30 j 02:16	18°♐56'22	0°12'46		-11662 May 16 j 11:43	15°♐	
behind sun begin	-11668 Oct 29 j 21:08	18°♐53'23			-11662 Aug 12 j 10:57	0°♐	
behind sun end	-11668 Oct 30 j 07:24	18°♐59'21		retrograde	-11662 Sep 08 j 07:02	1°♐09'07	
max. Earth dist.	-11668 Oct 30 j 23:37	19°♐08'50	6.10678 AU		-11662 Oct 05 j 03:58	30°♐	
morning rise	-11668 Nov 12 j 08:59	22°♐02'07		asc. node	-11662 Nov 02 j 05:32	26°♐52'36	
	-11668 Dec 18 j 04:16	0°♐		opposition	-11662 Nov 06 j 23:26	26°♐15'32	0°01'01
desc. node	-11667 Jan 17 j 15:58	5°♐47'03		min. Earth dist.	-11662 Nov 07 j 14:27	26°♐10'38	4.30365 AU
retrograde	-11667 Mar 23 j 16:54	11°♐46'39		direct	-11661 Jan 07 j 23:23	21°♐12'31	
opposition	-11667 May 23 j 06:13	6°♐42'54	-0°29'12		-11661 Mar 31 j 13:09	0°♐	
min. Earth dist.	-11667 May 22 j 12:31	6°♐48'50	4.08627 AU	evening set	-11661 May 16 j 12:00	9°♐32'34	
direct	-11667 Jul 20 j 16:22	1°♐47'56		max. Earth dist.	-11661 May 28 j 10:07	12°♐11'56	6.32185 AU
evening set	-11667 Nov 21 j 10:56	20°♐38'51					
conjunction	-11667 Dec 04 j 22:56	23°♐47'52	-0°48'39	conjunction	-11661 May 29 j 11:08	12°♐25'55	0°29'55
minimum elong	-11667 Dec 04 j 22:51	23°♐47'49	0°48'32	minimum elong	-11661 May 29 j 11:05	12°♐25'54	0°29'41
max. Earth dist.	-11667 Dec 06 j 03:23	24°♐04'29	6.07525 AU	morning rise	-11661 Jun 11 j 06:50	15°♐17'35	
morning rise	-11667 Dec 18 j 14:12	26°♐58'32			-11661 Aug 29 j 11:25	0°♐	
	-11667 Dec 31 j 18:36	0°♐		retrograde	-11661 Oct 10 j 02:43	2°♐38'07	
retrograde	-11666 Apr 28 j 14:16	16°♐49'21			-11661 Nov 21 j 09:57	30°♐	
opposition	-11666 Jun 27 j 08:30	11°♐44'21	-1°50'47	opposition	-11661 Dec 09 j 12:53	27°♐46'13	1°20'53
min. Earth dist.	-11666 Jun 26 j 13:45	11°♐50'44	4.07642 AU	min. Earth dist.	-11661 Dec 10 j 07:46	27°♐40'10	4.33134 AU
direct	-11666 Aug 24 j 13:52	6°♐46'09		direct	-11660 Feb 09 j 23:45	22°♐45'49	
evening set	-11666 Dec 28 j 07:11	25°♐53'30			-11660 Apr 23 j 23:07	0°♐	
conjunction	-11665 Jan 10 j 23:41	29°♐03'39	-1°32'16	evening set	-11660 Jun 16 j 03:55	10°♐52'05	
minimum elong	-11665 Jan 10 j 23:36	29°♐03'36	1°32'33	conjunction	-11660 Jun 28 j 17:44	13°♐41'02	1°17'38
max. Earth dist.	-11665 Jan 12 j 02:55	29°♐19'27	6.08684 AU	minimum elong	-11660 Jun 28 j 17:39	13°♐40'59	1°17'45
	-11665 Jan 15 j 00:51	0°♐		max. Earth dist.	-11660 Jun 27 j 14:48	13°♐25'56	6.32946 AU
morning rise	-11665 Jan 24 j 17:27	2°♐14'26		morning rise	-11660 Jul 11 j 05:26	16°♐28'55	
	-11665 Mar 26 j 13:09	15°♐			-11660 Sep 18 j 23:38	0°♐	
				retrograde	-11660 Nov 10 j 09:34	4°♐00'05	
					-11659 Jan 03 j 15:14	30°♐	
				opposition	-11659 Jan 10 j 12:29	29°♐07'56	2°16'57

Attention, astronomical year style is used: The year -11659 in astronomical counting style is the year 11660 BCE in historical counting style.

min. Earth dist.	-11659 Jan 11 j 05:48	29° Υ 02'27	4.31949 AU		-11654 Dec 29 j 10:22	0° \mathbb{M}	
direct	-11659 Mar 13 j 18:35	24° Υ 10'36		evening set	-11653 Jan 02 j 12:16	0° \mathbb{M} 56'15	
	-11659 May 17 j 20:20	0° \mathcal{B}					
evening set	-11659 Jul 17 j 06:58	12° \mathcal{B} 11'34		conjunction	-11653 Jan 16 j 04:55	4° \mathbb{M} 06'25	-1°35'51
				minimum elong	-11653 Jan 16 j 04:50	4° \mathbb{M} 06'22	1°36'11
conjunction	-11659 Jul 29 j 15:31	14° \mathcal{B} 59'12	1°42'47	max. Earth dist.	-11653 Jan 17 j 05:31	4° \mathbb{M} 20'40	6.08848 AU
minimum elong	-11659 Jul 29 j 15:29	14° \mathcal{B} 59'11	1°43'13	morning rise	-11653 Jan 29 j 22:53	7° \mathbb{M} 17'07	
max. Earth dist.	-11659 Jul 28 j 20:35	14° \mathcal{B} 48'28	6.29789 AU		-11653 Mar 05 j 18:54	15° \mathbb{M}	
	-11659 Jul 29 j 16:56	15° \mathcal{B}		retrograde	-11653 Jun 07 j 13:46	26° \mathbb{M} 43'55	
morning rise	-11659 Aug 10 j 23:20	17° \mathcal{B} 46'37		opposition	-11653 Aug 05 j 15:04	21° \mathbb{M} 40'33	-2°33'16
	-11659 Oct 10 j 07:31	0° \mathbb{I}		min. Earth dist.	-11653 Aug 05 j 02:28	21° \mathbb{M} 44'52	4.11374 AU
retrograde	-11659 Dec 13 j 15:07	5° \mathbb{I} 46'57		direct	-11653 Oct 03 j 11:24	16° \mathbb{M} 38'41	
opposition	-11658 Feb 13 j 05:23	0° \mathbb{I} 52'50	2°33'10		-11652 Jan 13 j 04:54	0° \mathcal{A}	
min. Earth dist.	-11658 Feb 13 j 15:22	0° \mathbb{I} 49'41	4.27105 AU	evening set	-11652 Feb 08 j 12:05	5° \mathcal{A} 50'06	
	-11658 Feb 20 j 05:02	30° \mathcal{R} \mathcal{B}					
direct	-11658 Apr 15 j 16:33	25° \mathcal{B} 58'20		conjunction	-11652 Feb 22 j 04:42	8° \mathcal{A} 57'43	-1°40'42
	-11658 Jun 07 j 06:25	0° \mathbb{I}		minimum elong	-11652 Feb 22 j 04:45	8° \mathcal{A} 57'44	1°41'17
evening set	-11658 Aug 17 j 14:31	14° \mathbb{I} 02'18		max. Earth dist.	-11652 Feb 22 j 16:58	9° \mathcal{A} 04'44	6.14409 AU
				morning rise	-11652 Mar 06 j 20:22	12° \mathcal{A} 04'45	
conjunction	-11658 Aug 30 j 00:16	16° \mathbb{I} 52'52	1°37'28		-11652 Jun 18 j 03:43	0° \mathcal{B}	
minimum elong	-11658 Aug 30 j 00:20	16° \mathbb{I} 52'54	1°38'05	retrograde	-11652 Jul 10 j 09:03	0° \mathcal{B} 48'49	
max. Earth dist.	-11658 Aug 29 j 16:31	16° \mathbb{I} 48'25	6.23599 AU		-11652 Aug 01 j 08:21	30° \mathcal{R} \mathcal{A}	
morning rise	-11658 Sep 11 j 11:31	19° \mathbb{I} 44'17		opposition	-11652 Sep 07 j 05:12	25° \mathcal{A} 48'46	-2°12'59
	-11658 Oct 29 j 18:31	0° \mathcal{B}		min. Earth dist.	-11652 Sep 07 j 03:09	25° \mathcal{A} 49'27	4.18122 AU
retrograde	-11657 Jan 17 j 02:10	8° \mathcal{B} 24'36		direct	-11652 Nov 06 j 04:50	20° \mathcal{A} 44'49	
opposition	-11657 Mar 19 j 17:12	3° \mathcal{B} 27'09	2°02'14		-11651 Jan 28 j 09:23	0° \mathcal{B}	
min. Earth dist.	-11657 Mar 19 j 16:52	3° \mathcal{B} 27'16	4.19961 AU	evening set	-11651 Mar 15 j 07:48	9° \mathcal{B} 42'35	
	-11657 Apr 18 j 15:44	30° \mathcal{R} \mathbb{I}					
direct	-11657 May 19 j 01:11	28° \mathbb{I} 34'08		conjunction	-11651 Mar 28 j 21:20	12° \mathcal{B} 45'58	-1°10'56
	-11657 Jun 18 j 03:38	0° \mathcal{B}		minimum elong	-11651 Mar 28 j 21:26	12° \mathcal{B} 46'01	1°11'35
evening set	-11657 Sep 18 j 20:59	16° \mathcal{B} 49'16		max. Earth dist.	-11651 Mar 28 j 16:38	12° \mathcal{B} 43'18	6.21827 AU
				morning rise	-11651 Apr 11 j 08:14	15° \mathcal{B} 47'55	
conjunction	-11657 Oct 01 j 14:50	19° \mathcal{B} 46'30	1°01'16		-11651 Jun 23 j 06:53	0° \approx	
minimum elong	-11657 Oct 01 j 14:55	19° \mathcal{B} 46'33	1°01'54	retrograde	-11651 Aug 11 j 21:45	3° \approx 47'25	
max. Earth dist.	-11657 Oct 01 j 23:19	19° \mathcal{B} 51'26	6.16194 AU		-11651 Oct 01 j 09:06	30° \mathcal{R} \mathcal{B}	
morning rise	-11657 Oct 14 j 11:33	22° \mathcal{B} 45'23		opposition	-11651 Oct 10 j 02:09	28° \mathcal{B} 51'07	-1°09'48
	-11657 Nov 16 j 02:07	0° \mathcal{Q}		min. Earth dist.	-11651 Oct 10 j 09:44	28° \mathcal{B} 48'35	4.25457 AU
retrograde	-11656 Feb 21 j 14:50	12° \mathcal{Q} 05'28		direct	-11651 Dec 10 j 06:16	23° \mathcal{B} 46'53	
opposition	-11656 Apr 22 j 19:35	7° \mathcal{Q} 04'23	0°49'54		-11650 Feb 15 j 17:11	0° \approx	
min. Earth dist.	-11656 Apr 22 j 08:40	7° \mathcal{Q} 07'58	4.12797 AU	evening set	-11650 Apr 18 j 11:16	12° \approx 23'38	
direct	-11656 Jun 20 j 23:11	2° \mathcal{Q} 11'09			-11650 Apr 30 j 03:26	15° \approx	
	-11656 Sep 26 j 10:29	15° \mathcal{Q}					
evening set	-11656 Oct 21 j 18:34	20° \mathcal{Q} 44'26		conjunction	-11650 May 01 j 18:09	15° \approx 21'41	-0°19'05
				minimum elong	-11650 May 01 j 18:11	15° \approx 21'42	0°19'35
conjunction	-11656 Nov 03 j 22:59	23° \mathcal{Q} 49'07	0°03'44	max. Earth dist.	-11650 Apr 30 j 23:27	15° \approx 11'13	6.28611 AU
minimum elong	-11656 Nov 03 j 23:00	23° \mathcal{Q} 49'08	0°04'09	morning rise	-11650 May 14 j 21:38	18° \approx 17'56	
behind sun begin	-11656 Nov 03 j 14:55	23° \mathcal{Q} 44'25			-11650 Jul 11 j 21:48	0° \mathcal{H}	
behind sun end	-11656 Nov 04 j 07:06	23° \mathcal{Q} 53'50		asc. node	-11650 Sep 11 j 09:41	5° \mathcal{H} 46'38	
max. Earth dist.	-11656 Nov 04 j 20:14	24° \mathcal{Q} 01'32	6.09990 AU	retrograde	-11650 Sep 12 j 20:01	5° \mathcal{H} 46'50	
morning rise	-11656 Nov 17 j 07:14	26° \mathcal{Q} 55'50		opposition	-11650 Nov 11 j 14:24	0° \mathcal{H} 53'34	0°13'05
desc. node	-11656 Nov 27 j 15:55	29° \mathcal{Q} 18'56		min. Earth dist.	-11650 Nov 12 j 06:33	0° \mathcal{H} 48'19	4.31086 AU
	-11656 Nov 30 j 16:13	0° \mathbb{P}			-11650 Nov 18 j 12:02	30° \mathcal{R} \approx	
retrograde	-11655 Mar 28 j 16:27	16° \mathbb{P} 43'12		direct	-11649 Jan 12 j 17:31	25° \approx 50'52	
min. Earth dist.	-11655 May 27 j 09:30	11° \mathbb{P} 45'11	4.08082 AU		-11649 Mar 08 j 07:07	0° \mathcal{H}	
opposition	-11655 May 28 j 03:26	11° \mathbb{P} 39'09	-0°41'50	evening set	-11649 May 21 j 01:27	14° \mathcal{H} 08'00	
direct	-11655 Jul 25 j 11:57	6° \mathbb{P} 43'47					
evening set	-11655 Nov 26 j 12:14	25° \mathbb{P} 38'16		conjunction	-11649 Jun 02 j 23:09	17° \mathcal{H} 00'34	0°37'37
				minimum elong	-11649 Jun 02 j 23:06	17° \mathcal{H} 00'32	0°37'27
conjunction	-11655 Dec 10 j 01:21	28° \mathbb{P} 47'51	-0°56'11	max. Earth dist.	-11649 Jun 01 j 20:43	16° \mathcal{H} 45'48	6.32657 AU
minimum elong	-11655 Dec 10 j 01:15	28° \mathbb{P} 47'47	0°56'09	morning rise	-11649 Jun 15 j 17:39	19° \mathcal{H} 51'30	
max. Earth dist.	-11655 Dec 11 j 07:01	29° \mathbb{P} 05'11	6.07181 AU		-11649 Aug 03 j 23:59	0° Υ	
	-11655 Dec 15 j 04:51	0° \mathcal{L}		retrograde	-11649 Oct 14 j 14:52	7° Υ 11'41	
morning rise	-11655 Dec 23 j 17:14	1° \mathcal{L} 58'56		opposition	-11649 Dec 14 j 04:04	2° Υ 19'48	1°30'43
retrograde	-11654 May 03 j 14:42	21° \mathcal{L} 49'41		min. Earth dist.	-11649 Dec 14 j 22:57	2° Υ 13'45	4.33333 AU
min. Earth dist.	-11654 Jul 01 j 11:23	16° \mathcal{L} 50'53	4.07560 AU		-11648 Jan 02 j 04:05	30° \mathcal{R} \mathcal{H}	
opposition	-11654 Jul 02 j 05:13	16° \mathcal{L} 44'48	-1°59'26	direct	-11648 Feb 14 j 15:14	27° \mathcal{R} 19'44	
direct	-11654 Aug 29 j 10:48	11° \mathcal{L} 46'12			-11648 Mar 28 j 20:49	0° Υ	

Attention, astronomical year style is used: The year -11648 in astronomical counting style is the year 11649 BCE in historical counting style.

evening set	-11648 Jun 20 j 14:06	15° Υ 24'23		conjunction	-11643 Dec 15 j 08:17	3° Ω 58'21	-1°03'35
max. Earth dist.	-11648 Jul 02 j 01:33	17° Υ 58'38	6.32833 AU	minimum elong	-11643 Dec 15 j 08:11	3° Ω 58'17	1°03'35
				max. Earth dist.	-11643 Dec 16 j 13:21	4° Ω 15'19	6.07077 AU
conjunction	-11648 Jul 03 j 02:57	18° Υ 12'54	1°22'48	morning rise	-11643 Dec 29 j 00:59	7° Ω 09'44	
minimum elong	-11648 Jul 03 j 02:52	18° Υ 12'51	1°22'58	retrograde	-11642 May 08 j 15:55	26° Ω 58'45	
morning rise	-11648 Jul 15 j 13:37	21° Υ 00'24		min. Earth dist.	-11642 Jul 06 j 10:15	22° Ω 00'20	4.07924 AU
	-11648 Aug 27 j 08:22	0° \mathcal{B}		opposition	-11642 Jul 07 j 04:57	21° Ω 53'56	-2°07'26
retrograde	-11648 Nov 15 j 00:12	8° \mathcal{B} 34'18		direct	-11642 Sep 03 j 11:23	16° Ω 54'54	
opposition	-11647 Jan 15 j 05:29	3° \mathcal{B} 41'59	2°21'55		-11642 Dec 11 j 15:55	0° \mathcal{M}	
min. Earth dist.	-11647 Jan 15 j 22:24	3° \mathcal{B} 36'38	4.31535 AU	evening set	-11641 Jan 07 j 20:25	6° \mathcal{M} 05'40	
	-11647 Feb 17 j 09:04	30° $\mathcal{R}\Upsilon$					
direct	-11647 Mar 18 j 10:23	28° Υ 45'05		conjunction	-11641 Jan 21 j 13:18	9° \mathcal{M} 15'31	-1°38'48
	-11647 Apr 16 j 08:46	0° \mathcal{B}		minimum elong	-11641 Jan 21 j 13:14	9° \mathcal{M} 15'29	1°39'12
	-11647 Jul 13 j 19:27	15° \mathcal{B}		max. Earth dist.	-11641 Jan 22 j 14:10	9° \mathcal{M} 29'55	6.09673 AU
evening set	-11647 Jul 21 j 16:29	16° \mathcal{B} 45'48		morning rise	-11641 Feb 04 j 06:59	12° \mathcal{M} 25'42	
max. Earth dist.	-11647 Aug 02 j 05:25	19° \mathcal{B} 22'38	6.29078 AU		-11641 Feb 15 j 14:13	15° \mathcal{M}	
					-11641 May 10 j 08:14	0° \mathcal{J}	
conjunction	-11647 Aug 03 j 00:38	19° \mathcal{B} 33'33	1°43'58	retrograde	-11641 Jun 12 j 12:12	1° \mathcal{J} 46'04	
minimum elong	-11647 Aug 03 j 00:36	19° \mathcal{B} 33'32	1°44'27		-11641 Jul 15 j 06:55	30° $\mathcal{R}\mathcal{M}$	
morning rise	-11647 Aug 15 j 08:37	22° \mathcal{B} 21'17		opposition	-11641 Aug 10 j 11:39	26° \mathcal{M} 43'04	-2°33'30
	-11647 Sep 19 j 18:23	0° \mathcal{I}		min. Earth dist.	-11641 Aug 10 j 00:29	26° \mathcal{M} 46'53	4.12592 AU
retrograde	-11647 Dec 18 j 10:01	10° \mathcal{I} 26'48		direct	-11641 Oct 08 j 12:21	21° \mathcal{M} 40'52	
opposition	-11646 Feb 18 j 01:02	5° \mathcal{I} 32'15	2°31'41		-11641 Dec 24 j 13:29	0° \mathcal{J}	
min. Earth dist.	-11646 Feb 18 j 09:54	5° \mathcal{I} 29'26	4.26141 AU	evening set	-11640 Feb 13 j 16:13	10° \mathcal{J} 49'16	
direct	-11646 Apr 20 j 08:53	0° \mathcal{I} 37'57					
evening set	-11646 Aug 22 j 02:10	18° \mathcal{I} 43'17		conjunction	-11640 Feb 27 j 08:30	13° \mathcal{J} 56'07	-1°38'20
				minimum elong	-11640 Feb 27 j 08:33	13° \mathcal{J} 56'08	1°38'57
conjunction	-11646 Sep 03 j 12:53	21° \mathcal{I} 34'41	1°34'06	max. Earth dist.	-11640 Feb 27 j 19:16	14° \mathcal{J} 02'15	6.15917 AU
minimum elong	-11646 Sep 03 j 12:57	21° \mathcal{I} 34'43	1°34'44	morning rise	-11640 Mar 11 j 23:34	17° \mathcal{J} 02'13	
max. Earth dist.	-11646 Sep 03 j 08:05	21° \mathcal{I} 31'55	6.22474 AU		-11640 May 14 j 12:56	0° \mathcal{Z}	
morning rise	-11646 Sep 16 j 01:03	24° \mathcal{I} 27'01		retrograde	-11640 Jul 14 j 22:35	5° \mathcal{Z} 37'35	
	-11646 Oct 10 j 23:12	0° \mathcal{E}		opposition	-11640 Sep 11 j 21:13	0° \mathcal{Z} 38'01	-2°06'06
retrograde	-11645 Jan 22 j 01:41	13° \mathcal{E} 13'31		min. Earth dist.	-11640 Sep 11 j 19:30	0° \mathcal{Z} 38'36	4.19775 AU
opposition	-11645 Mar 24 j 15:33	8° \mathcal{E} 15'36	1°54'10		-11640 Sep 16 j 13:57	30° $\mathcal{R}\mathcal{J}$	
min. Earth dist.	-11645 Mar 24 j 14:00	8° \mathcal{E} 16'05	4.18750 AU	direct	-11640 Nov 11 j 00:45	25° \mathcal{J} 33'56	
direct	-11645 May 23 j 19:13	3° \mathcal{E} 22'39			-11639 Jan 05 j 07:53	0° \mathcal{Z}	
evening set	-11645 Sep 23 j 13:55	21° \mathcal{E} 40'35		evening set	-11639 Mar 20 j 04:36	14° \mathcal{Z} 26'34	
conjunction	-11645 Oct 06 j 09:07	24° \mathcal{E} 38'57	0°54'03	conjunction	-11639 Apr 02 j 17:12	17° \mathcal{Z} 28'54	-1°04'37
minimum elong	-11645 Oct 06 j 09:12	24° \mathcal{E} 39'00	0°54'39	minimum elong	-11639 Apr 02 j 17:18	17° \mathcal{Z} 28'57	1°05'15
max. Earth dist.	-11645 Oct 06 j 18:23	24° \mathcal{E} 44'21	6.15006 AU	max. Earth dist.	-11639 Apr 02 j 09:47	17° \mathcal{Z} 24'44	6.23505 AU
morning rise	-11645 Oct 19 j 07:37	27° \mathcal{E} 39'08		morning rise	-11639 Apr 16 j 03:09	20° \mathcal{Z} 29'46	
	-11645 Oct 29 j 13:33	0° \mathcal{Q}			-11639 May 31 j 07:26	0° \approx	
	-11644 Jan 20 j 12:33	15° \mathcal{Q}		retrograde	-11639 Aug 16 j 08:27	8° \approx 21'43	
retrograde	-11644 Feb 26 j 17:33	17° \mathcal{Q} 04'53		opposition	-11639 Oct 14 j 14:18	3° \approx 25'56	-0°58'52
	-11644 Apr 03 j 20:29	15° $\mathcal{R}\mathcal{Q}$		min. Earth dist.	-11639 Oct 15 j 00:15	3° \approx 22'38	4.26988 AU
opposition	-11644 Apr 27 j 20:07	12° \mathcal{Q} 03'15	0°37'19		-11639 Nov 12 j 05:01	30° $\mathcal{R}\mathcal{Z}$	
min. Earth dist.	-11644 Apr 27 j 07:35	12° \mathcal{Q} 07'23	4.11718 AU	direct	-11639 Dec 14 j 23:42	28° \mathcal{Z} 21'48	
direct	-11644 Jun 25 j 19:49	7° \mathcal{Q} 09'48			-11638 Jan 17 j 02:47	0° \approx	
	-11644 Sep 06 j 22:40	15° \mathcal{Q}			-11638 Apr 14 j 10:16	15° \approx	
desc. node	-11644 Oct 06 j 03:59	21° \mathcal{Q} 04'46		evening set	-11638 Apr 23 j 00:23	16° \approx 53'30	
evening set	-11644 Oct 26 j 18:15	25° \mathcal{Q} 46'51		max. Earth dist.	-11638 May 05 j 09:35	19° \approx 39'04	6.29871 AU
conjunction	-11644 Nov 09 j 00:21	28° \mathcal{Q} 52'37	-0°05'20	conjunction	-11638 May 06 j 06:09	19° \approx 50'33	-0°11'13
minimum elong	-11644 Nov 09 j 00:20	28° \mathcal{Q} 52'36	0°04'57	minimum elong	-11638 May 06 j 06:10	19° \approx 50'33	0°11'40
behind sun begin	-11644 Nov 08 j 16:19	28° \mathcal{Q} 47'56		behind sun begin	-11638 May 06 j 00:26	19° \approx 47'22	
behind sun end	-11644 Nov 09 j 08:21	28° \mathcal{Q} 57'16		behind sun end	-11638 May 06 j 11:55	19° \approx 53'45	
max. Earth dist.	-11644 Nov 10 j 00:42	29° \mathcal{Q} 06'52	6.09147 AU	morning rise	-11638 May 19 j 08:19	22° \approx 45'47	
	-11644 Nov 13 j 19:31	0° \mathcal{M}			-11638 Jun 22 j 06:53	0° \mathcal{H}	
morning rise	-11644 Nov 22 j 09:54	2° \mathcal{M} 00'18		asc. node	-11638 Jul 23 j 04:01	5° \mathcal{H} 31'34	
retrograde	-11643 Apr 02 j 21:39	21° \mathcal{M} 50'34		retrograde	-11638 Sep 17 j 02:05	10° \mathcal{H} 10'38	
min. Earth dist.	-11643 Jun 01 j 10:39	16° \mathcal{M} 52'26	4.07583 AU	opposition	-11638 Nov 16 j 00:19	5° \mathcal{H} 17'39	0°24'28
opposition	-11643 Jun 02 j 04:47	16° \mathcal{M} 46'19	-0°54'37	min. Earth dist.	-11638 Nov 16 j 17:02	5° \mathcal{H} 12'14	4.31989 AU
direct	-11643 Jul 30 j 11:31	11° \mathcal{M} 50'38		direct	-11637 Jan 17 j 05:10	0° \mathcal{H} 15'13	
	-11643 Nov 28 j 06:56	0° Ω		evening set	-11637 May 25 j 09:05	18° \mathcal{H} 29'12	
evening set	-11643 Dec 01 j 18:31	0° Ω 48'24		max. Earth dist.	-11637 Jun 06 j 01:45	21° \mathcal{H} 05'31	6.33122 AU

Attention, astronomical year style is used: The year -11637 in astronomical counting style is the year 11638 BCE in historical counting style.

conjunction	-11637 Jun 07 j 05:25	21° X 20'59	0°44'44	min. Earth dist.	-11631 Jun 06 j 10:24	22° M 03'00	4.07254 AU
minimum elong	-11637 Jun 07 j 05:21	21° X 20'57	0°44'36	opposition	-11631 Jun 07 j 06:26	21° M 56'14	-1°07'06
morning rise	-11637 Jun 19 j 22:40	24° X 11'13		direct	-11631 Aug 04 j 11:31	17° M 00'04	
	-11637 Jul 16 j 21:36	0° Y			-11631 Nov 10 j 12:16	0° L	
retrograde	-11637 Oct 18 j 23:28	11° Y 31'43		evening set	-11631 Dec 07 j 01:31	6° L 00'20	
opposition	-11637 Dec 18 j 14:33	6° Y 39'58	1°39'33				
min. Earth dist.	-11637 Dec 19 j 10:53	6° Y 33'29	4.33331 AU	conjunction	-11631 Dec 20 j 16:05	9° L 10'30	-1°10'31
direct	-11636 Feb 19 j 02:40	1° Y 40'20		minimum elong	-11631 Dec 20 j 15:59	9° L 10'26	1°10'34
evening set	-11636 Jun 24 j 19:21	19° Y 44'17		max. Earth dist.	-11631 Dec 21 j 22:44	9° L 28'22	6.07221 AU
max. Earth dist.	-11636 Jul 06 j 04:21	22° Y 17'26	6.32336 AU	morning rise	-11630 Jan 03 j 09:05	12° L 21'53	
					-11630 Apr 06 j 23:20	0° M	
conjunction	-11636 Jul 07 j 07:14	22° Y 32'34	1°27'15	retrograde	-11630 May 13 j 18:30	2° M 07'53	
minimum elong	-11636 Jul 07 j 07:09	22° Y 32'31	1°27'28		-11630 Jun 19 j 03:18	30° R L	
morning rise	-11636 Jul 19 j 17:19	25° Y 19'59		min. Earth dist.	-11630 Jul 11 j 11:00	27° L 09'05	4.08501 AU
	-11636 Aug 10 j 00:45	0° B		opposition	-11630 Jul 12 j 04:29	27° L 03'06	-2°14'26
retrograde	-11636 Nov 19 j 11:36	12° B 58'19		direct	-11630 Sep 08 j 13:37	22° L 03'31	
opposition	-11635 Jan 19 j 18:36	8° B 05'50	2°25'53		-11630 Nov 21 j 13:34	0° M	
min. Earth dist.	-11635 Jan 20 j 10:52	8° B 00'41	4.30603 AU	evening set	-11629 Jan 13 j 03:51	11° M 14'05	
direct	-11635 Mar 22 j 20:19	3° B 09'19					
	-11635 Jun 27 j 14:26	15° B		conjunction	-11629 Jan 26 j 20:46	14° M 23'30	-1°41'02
evening set	-11635 Jul 25 j 22:50	21° B 11'53		minimum elong	-11629 Jan 26 j 20:43	14° M 23'28	1°41'28
				max. Earth dist.	-11629 Jan 27 j 20:30	14° M 37'12	6.10574 AU
conjunction	-11635 Aug 07 j 07:06	24° B 00'08	1°44'27		-11629 Jan 29 j 12:02	15° M	
minimum elong	-11635 Aug 07 j 07:05	24° B 00'08	1°44'57	morning rise	-11629 Feb 09 j 14:13	17° M 33'07	
max. Earth dist.	-11635 Aug 06 j 13:58	23° B 50'23	6.27785 AU		-11629 Apr 10 j 01:36	0° A	
morning rise	-11635 Aug 19 j 15:10	26° B 48'28		retrograde	-11629 Jun 17 j 07:21	6° A 46'49	
	-11635 Sep 02 j 21:56	0° H		opposition	-11629 Aug 15 j 07:12	1° A 44'11	-2°32'42
retrograde	-11635 Dec 23 j 04:29	15° H 01'20		min. Earth dist.	-11629 Aug 14 j 20:24	1° A 47'53	4.13724 AU
opposition	-11634 Feb 22 j 18:39	10° H 06'29	2°29'16		-11629 Aug 28 j 06:48	30° R M	
min. Earth dist.	-11634 Feb 23 j 03:01	10° H 03'49	4.24582 AU	direct	-11629 Oct 13 j 10:21	26° M 41'36	
direct	-11634 Apr 24 j 22:37	5° H 12'30			-11629 Nov 28 j 21:25	0° A	
evening set	-11634 Aug 26 j 12:55	23° H 21'28		evening set	-11628 Feb 18 j 19:44	15° A 47'36	
conjunction	-11634 Sep 08 j 00:29	26° H 13'59	1°30'07	conjunction	-11628 Mar 03 j 11:31	18° A 53'43	-1°35'20
minimum elong	-11634 Sep 08 j 00:33	26° H 14'01	1°30'47	minimum elong	-11628 Mar 03 j 11:35	18° A 53'46	1°35'59
max. Earth dist.	-11634 Sep 07 j 20:18	26° H 11'34	6.20782 AU	max. Earth dist.	-11628 Mar 03 j 18:43	18° A 57'49	6.17170 AU
morning rise	-11634 Sep 20 j 14:05	29° H 07'38		morning rise	-11628 Mar 17 j 02:02	21° A 59'02	
	-11634 Sep 24 j 09:43	0° E			-11628 Apr 23 j 02:57	0° B	
retrograde	-11633 Jan 27 j 01:28	18° E 02'32		retrograde	-11628 Jul 19 j 14:34	10° B 27'05	
opposition	-11633 Mar 29 j 13:50	13° E 04'04	1°45'18	opposition	-11628 Sep 16 j 13:24	5° B 28'02	-1°58'29
min. Earth dist.	-11633 Mar 29 j 09:51	13° E 05'21	4.17052 AU	min. Earth dist.	-11628 Sep 16 j 14:21	5° B 27'43	4.21013 AU
direct	-11633 May 28 j 11:40	8° E 11'12		direct	-11628 Nov 15 j 22:31	0° B 23'48	
evening set	-11633 Sep 28 j 07:32	26° E 33'41		evening set	-11627 Mar 25 j 01:47	19° B 12'59	
conjunction	-11633 Oct 11 j 04:30	29° E 33'29	0°46'22	conjunction	-11627 Apr 07 j 13:46	22° B 14'35	-0°57'52
minimum elong	-11633 Oct 11 j 04:34	29° E 33'32	0°46'56	minimum elong	-11627 Apr 07 j 13:51	22° B 14'38	0°58'29
max. Earth dist.	-11633 Oct 11 j 18:00	29° E 41'21	6.13480 AU	max. Earth dist.	-11627 Apr 07 j 04:52	22° B 09'35	6.24644 AU
	-11633 Oct 13 j 01:57	0° L		morning rise	-11627 Apr 20 j 22:39	25° B 14'35	
morning rise	-11633 Oct 24 j 04:35	2° L 35'05			-11627 May 12 j 16:37	0° C	
	-11633 Dec 22 j 01:22	15° L		retrograde	-11627 Aug 20 j 19:27	13° C 01'10	
retrograde	-11632 Mar 02 j 22:37	22° L 07'26		opposition	-11627 Oct 19 j 04:23	8° C 05'50	-0°47'29
opposition	-11632 May 02 j 21:38	17° L 05'21	0°24'18	min. Earth dist.	-11627 Oct 19 j 14:53	8° C 02'22	4.27936 AU
min. Earth dist.	-11632 May 02 j 08:04	17° L 09'49	4.10499 AU	direct	-11627 Dec 19 j 16:33	3° C 01'51	
	-11632 May 19 j 05:48	15° R L			-11626 Mar 28 j 06:27	15° C	
direct	-11632 Jun 30 j 17:56	12° L 11'43		evening set	-11626 Apr 27 j 16:00	21° C 30'33	
	-11632 Aug 11 j 13:18	15° L					
desc. node	-11632 Aug 14 j 17:41	15° L 25'08		conjunction	-11626 May 10 j 20:22	24° C 26'47	-0°03'06
	-11632 Oct 28 j 00:40	0° M		minimum elong	-11626 May 10 j 20:23	24° C 26'47	0°03'31
evening set	-11632 Oct 31 j 19:59	0° M 53'01		behind sun begin	-11626 May 10 j 12:20	24° C 22'19	
				behind sun end	-11626 May 11 j 04:26	24° C 31'16	
conjunction	-11632 Nov 14 j 03:19	3° M 59'43	-0°14'18	max. Earth dist.	-11626 May 09 j 21:09	24° C 13'49	6.30563 AU
minimum elong	-11632 Nov 14 j 03:17	3° M 59'42	0°13'58	morning rise	-11626 May 23 j 21:26	27° C 21'16	
behind sun begin	-11632 Nov 13 j 23:08	3° M 57'17		asc. node	-11626 Jun 01 j 00:03	29° C 08'35	
behind sun end	-11632 Nov 14 j 07:25	4° M 02'07			-11626 Jun 04 j 22:18	0° X	
max. Earth dist.	-11632 Nov 15 j 04:44	4° M 14'36	6.08329 AU	retrograde	-11626 Sep 21 j 14:46	14° X 44'08	
morning rise	-11632 Nov 27 j 14:25	7° M 08'23		opposition	-11626 Nov 20 j 14:27	9° X 51'27	0°36'06
retrograde	-11631 Apr 08 j 00:56	27° M 00'47		min. Earth dist.	-11626 Nov 21 j 09:05	9° X 45'26	4.32377 AU

Attention, astronomical year style is used: The year -11625 in astronomical counting style is the year 11626 BCE in historical counting style.

direct	-11625 Jan 21 j 22:22	4° H 49'19		morning rise	-11620 Dec 02 j 16:49	12° H 10'15	
evening set	-11625 May 29 j 20:50	23° H 01'36			-11619 Mar 07 j 19:53	0° H	
				retrograde	-11619 Apr 13 j 02:55	2° H 02'13	
conjunction	-11625 Jun 11 j 15:58	25° H 52'48	0°51'53		-11619 May 19 j 00:44	30° R H	
minimum elong	-11625 Jun 11 j 15:53	25° H 52'45	0°51'47	min. Earth dist.	-11619 Jun 11 j 09:39	27° H 03'58	4.07454 AU
max. Earth dist.	-11625 Jun 10 j 12:02	25° H 37'11	6.33168 AU	opposition	-11619 Jun 12 j 04:50	26° H 57'28	-1°18'41
morning rise	-11625 Jun 24 j 07:59	28° H 42'30		direct	-11619 Aug 09 j 10:48	22° H 00'50	
	-11625 Jun 30 j 04:02	0° Y			-11619 Oct 22 j 02:24	0° H	
retrograde	-11625 Oct 23 j 11:54	16° Y 04'35		evening set	-11619 Dec 12 j 05:02	11° H 02'06	
opposition	-11625 Dec 23 j 06:10	11° Y 12'49	1°48'16				
min. Earth dist.	-11625 Dec 24 j 01:38	11° Y 06'37	4.33068 AU	conjunction	-11619 Dec 25 j 20:07	14° H 12'13	-1°16'41
direct	-11624 Feb 23 j 16:40	6° Y 13'36		minimum elong	-11619 Dec 25 j 20:00	14° H 12'09	1°16'48
evening set	-11624 Jun 29 j 05:42	24° Y 17'24		max. Earth dist.	-11619 Dec 27 j 02:08	14° H 29'42	6.07675 AU
				morning rise	-11618 Jan 08 j 13:28	17° H 23'29	
conjunction	-11624 Jul 11 j 16:42	27° Y 05'28	1°31'26		-11618 Mar 09 j 06:01	0° H	
minimum elong	-11624 Jul 11 j 16:38	27° Y 05'26	1°31'43	retrograde	-11618 May 18 j 14:47	7° H 05'30	
max. Earth dist.	-11624 Jul 10 j 15:05	26° Y 51'01	6.31778 AU	opposition	-11618 Jul 16 j 23:26	2° H 00'56	-2°20'12
morning rise	-11624 Jul 24 j 02:06	29° Y 52'48		min. Earth dist.	-11618 Jul 16 j 06:11	2° H 06'50	4.09185 AU
	-11624 Jul 24 j 14:57	0° H			-11618 Aug 01 j 03:35	30° R H	
	-11624 Oct 13 j 10:09	15° H		direct	-11618 Sep 13 j 09:16	27° H 00'54	
retrograde	-11624 Nov 24 j 06:03	17° H 35'37			-11618 Oct 26 j 18:24	0° H	
	-11623 Jan 05 j 17:54	15° R H			-11617 Jan 13 j 02:06	15° H	
opposition	-11623 Jan 24 j 13:31	12° H 42'57	2°29'12	evening set	-11617 Jan 18 j 07:12	16° H 11'20	
min. Earth dist.	-11623 Jan 25 j 05:44	12° H 37'49	4.29805 AU				
direct	-11623 Mar 27 j 13:29	7° H 46'52		conjunction	-11617 Feb 01 j 00:02	19° H 20'22	-1°42'26
	-11623 Jun 08 j 07:35	15° H		minimum elong	-11617 Feb 01 j 00:00	19° H 20'21	1°42'54
evening set	-11623 Jul 30 j 09:55	25° H 50'17		max. Earth dist.	-11617 Feb 01 j 20:15	19° H 32'01	6.11403 AU
				morning rise	-11617 Feb 14 j 17:18	22° H 29'28	
conjunction	-11623 Aug 11 j 18:11	28° H 38'56	1°44'23		-11617 Mar 20 j 19:23	0° H	
minimum elong	-11623 Aug 11 j 18:11	28° H 38'56	1°44'54	retrograde	-11617 Jun 22 j 00:21	11° H 37'22	
max. Earth dist.	-11623 Aug 11 j 02:08	28° H 29'46	6.26819 AU	opposition	-11617 Aug 19 j 23:12	6° H 35'11	-2°30'53
	-11623 Aug 17 j 16:17	0° H		min. Earth dist.	-11617 Aug 19 j 14:56	6° H 38'01	4.14606 AU
morning rise	-11623 Aug 24 j 02:44	1° H 27'49		direct	-11617 Oct 18 j 06:53	1° H 32'16	
retrograde	-11623 Dec 28 j 01:31	19° H 46'40		evening set	-11616 Feb 23 j 19:18	20° H 36'55	
opposition	-11622 Feb 27 j 16:45	14° H 51'20	2°25'48				
min. Earth dist.	-11622 Feb 27 j 22:23	14° H 49'32	4.23542 AU	conjunction	-11616 Mar 08 j 10:58	23° H 42'37	-1°31'46
direct	-11622 Apr 29 j 15:32	9° H 57'39		minimum elong	-11616 Mar 08 j 11:03	23° H 42'40	1°32'25
evening set	-11622 Aug 31 j 03:11	28° H 08'05		max. Earth dist.	-11616 Mar 08 j 16:33	23° H 45'48	6.18047 AU
	-11622 Sep 08 j 05:31	0° H		morning rise	-11616 Mar 22 j 00:48	26° H 47'20	
					-11616 Apr 05 j 10:29	0° H	
conjunction	-11622 Sep 12 j 15:53	1° H 01'29	1°25'30	retrograde	-11616 Jul 24 j 03:34	15° H 09'53	
minimum elong	-11622 Sep 12 j 15:59	1° H 01'32	1°26'09	opposition	-11616 Sep 21 j 03:19	10° H 11'26	-1°50'18
max. Earth dist.	-11622 Sep 12 j 15:47	1° H 01'25	6.19790 AU	min. Earth dist.	-11616 Sep 21 j 05:17	10° H 10'47	4.21799 AU
morning rise	-11622 Sep 25 j 06:35	3° H 56'06		direct	-11616 Nov 20 j 15:09	5° H 07'11	
retrograde	-11621 Feb 01 j 03:54	22° H 56'23		evening set	-11615 Mar 29 j 20:57	23° H 54'39	
opposition	-11621 Apr 03 j 14:05	17° H 57'24	1°35'34				
min. Earth dist.	-11621 Apr 03 j 09:07	17° H 59'01	4.16179 AU	conjunction	-11615 Apr 12 j 08:00	26° H 55'41	-0°50'51
direct	-11621 Jun 02 j 09:00	13° H 04'34		minimum elong	-11615 Apr 12 j 08:05	26° H 55'44	0°51'27
	-11621 Sep 26 j 16:56	0° H		max. Earth dist.	-11615 Apr 11 j 19:11	26° H 48'29	6.25292 AU
evening set	-11621 Oct 03 j 02:42	1° H 28'42		morning rise	-11615 Apr 25 j 16:10	29° H 55'08	
					-11615 Apr 26 j 00:54	0° H	
conjunction	-11621 Oct 16 j 01:01	4° H 29'26	0°38'22		-11615 Jul 15 j 06:01	15° H	
minimum elong	-11621 Oct 16 j 01:05	4° H 29'29	0°38'56	retrograde	-11615 Aug 25 j 08:29	17° H 38'26	
max. Earth dist.	-11621 Oct 16 j 15:53	4° H 38'07	6.12817 AU		-11615 Oct 05 j 18:28	15° R H	
morning rise	-11621 Oct 29 j 02:53	7° H 32'05		opposition	-11615 Oct 23 j 18:02	12° H 43'35	-0°35'56
	-11621 Dec 01 j 14:37	15° H		min. Earth dist.	-11615 Oct 24 j 06:41	12° H 39'25	4.28394 AU
retrograde	-11620 Mar 07 j 23:30	27° H 07'24		direct	-11615 Dec 24 j 10:11	7° H 39'46	
opposition	-11620 May 07 j 21:50	22° H 04'50	0°11'15		-11614 Mar 08 j 17:07	15° H	
min. Earth dist.	-11620 May 07 j 06:00	22° H 10'05	4.10103 AU	asc. node	-11614 Apr 10 j 02:20	21° H 18'26	
desc. node	-11620 Jun 24 j 18:21	17° H 22'59		evening set	-11614 May 02 j 07:03	26° H 07'10	
direct	-11620 Jul 05 j 14:38	17° H 10'57		max. Earth dist.	-11614 May 14 j 11:22	28° H 49'58	6.30816 AU
	-11620 Oct 10 j 19:56	0° H					
evening set	-11620 Nov 05 j 20:05	5° H 53'50		conjunction	-11614 May 15 j 10:27	29° H 02'52	0°05'09
				minimum elong	-11614 May 15 j 10:26	29° H 02'51	0°04'48
conjunction	-11620 Nov 19 j 04:44	9° H 01'06	-0°22'59	behind sun begin	-11614 May 15 j 02:32	28° H 58'28	
minimum elong	-11620 Nov 19 j 04:41	9° H 01'05	0°22'43	behind sun end	-11614 May 15 j 18:20	29° H 07'15	
max. Earth dist.	-11620 Nov 20 j 08:22	9° H 17'17	6.08230 AU		-11614 May 19 j 16:40	0° H	

Attention, astronomical year style is used: The year -11614 in astronomical counting style is the year 11615 BCE in historical counting style.

morning rise	-11614 May 28 j 10:10	1° H 56'44				-11608 Sep 21 j 12:18	0° M	
retrograde	-11614 Sep 26 j 02:34	19° H 19'12		evening set		-11608 Nov 10 j 20:13	10° M 53'43	
opposition	-11614 Nov 25 j 05:13	14° H 26'48	0°47'33					
min. Earth dist.	-11614 Nov 25 j 23:15	14° H 20'59	4.32429 AU	conjunction		-11608 Nov 24 j 05:59	14° M 01'34	-0°31'29
direct	-11613 Jan 26 j 13:01	9° H 25'06		minimum elong		-11608 Nov 24 j 05:55	14° M 01'32	0°31'16
evening set	-11613 Jun 03 j 09:15	27° H 36'38		max. Earth dist.		-11608 Nov 25 j 10:12	14° M 18'04	6.07993 AU
	-11613 Jun 14 j 02:11	0° Y		morning rise		-11608 Dec 07 j 19:11	17° M 11'15	
max. Earth dist.	-11613 Jun 14 j 22:33	0° Y 11'24	6.33009 AU			-11607 Feb 06 j 10:02	0° A	
				retrograde		-11607 Apr 18 j 02:41	7° A 03'04	
conjunction	-11613 Jun 16 j 02:59	0° Y 27'20	0°58'45	min. Earth dist.		-11607 Jun 16 j 06:45	2° A 04'52	4.07477 AU
minimum elong	-11613 Jun 16 j 02:53	0° Y 27'17	0°58'43	opposition		-11607 Jun 17 j 02:21	1° A 58'13	-1°29'41
morning rise	-11613 Jun 28 j 18:00	3° Y 16'38				-11607 Jul 02 j 01:05	30° R M	
retrograde	-11613 Oct 28 j 04:22	20° Y 41'03		direct		-11607 Aug 14 j 06:56	27° M 01'07	
opposition	-11613 Dec 27 j 23:35	15° Y 49'17	1°56'24			-11607 Sep 26 j 07:28	0° A	
min. Earth dist.	-11613 Dec 28 j 19:24	15° Y 42'59	4.32724 AU	evening set		-11607 Dec 17 j 09:04	16° A 04'20	
direct	-11612 Feb 28 j 10:03	10° Y 50'31						
evening set	-11612 Jul 03 j 16:45	28° Y 53'59		conjunction		-11607 Dec 31 j 00:34	19° A 14'30	-1°22'18
	-11612 Jul 08 j 14:21	0° B		minimum elong		-11607 Dec 31 j 00:28	19° A 14'26	1°22'29
max. Earth dist.	-11612 Jul 15 j 03:16	1° B 28'28	6.31260 AU	max. Earth dist.		-11606 Jan 01 j 04:44	19° A 30'53	6.07928 AU
				morning rise		-11606 Jan 13 j 18:13	22° A 25'41	
conjunction	-11612 Jul 16 j 03:04	1° B 41'54	1°35'06			-11606 Feb 16 j 19:09	0° M	
minimum elong	-11612 Jul 16 j 03:00	1° B 41'52	1°35'25	retrograde		-11606 May 23 j 12:03	12° M 04'29	
morning rise	-11612 Jul 28 j 11:54	4° B 29'12		opposition		-11606 Jul 21 j 18:52	7° M 00'05	-2°24'59
	-11612 Sep 17 j 05:26	15° B		min. Earth dist.		-11606 Jul 21 j 03:17	7° M 05'25	4.09649 AU
retrograde	-11612 Nov 28 j 23:19	22° B 16'10		direct		-11606 Sep 18 j 07:31	1° M 59'32	
opposition	-11611 Jan 29 j 09:22	17° B 23'10	2°31'35			-11606 Dec 26 j 17:36	15° M	
min. Earth dist.	-11611 Jan 29 j 23:05	17° B 18'49	4.29170 AU	evening set		-11605 Jan 23 j 11:13	21° M 10'29	
	-11611 Feb 18 j 02:00	15° R B						
direct	-11611 Apr 01 j 05:18	12° B 27'30		conjunction		-11605 Feb 06 j 04:13	24° M 19'16	-1°43'07
	-11611 May 12 j 18:49	15° B		minimum elong		-11605 Feb 06 j 04:12	24° M 19'15	1°43'38
	-11611 Aug 01 j 14:56	0° II		max. Earth dist.		-11605 Feb 06 j 23:43	24° M 30'29	6.12036 AU
evening set	-11611 Aug 03 j 21:37	0° II 30'57		morning rise		-11605 Feb 19 j 21:04	27° M 27'54	
						-11605 Mar 03 j 01:56	0° A	
conjunction	-11611 Aug 16 j 06:01	3° II 19'55	1°43'38	retrograde		-11605 Jun 26 j 18:21	16° A 30'26	
minimum elong	-11611 Aug 16 j 06:01	3° II 19'56	1°44'12	opposition		-11605 Aug 24 j 16:14	11° A 28'45	-2°28'01
max. Earth dist.	-11611 Aug 15 j 16:40	3° II 12'17	6.26101 AU	min. Earth dist.		-11605 Aug 24 j 09:12	11° A 31'09	4.15348 AU
morning rise	-11611 Aug 28 j 14:54	6° II 09'16		direct		-11605 Oct 23 j 02:49	6° A 25'33	
retrograde	-11610 Jan 02 j 00:26	24° II 33'01		evening set		-11604 Feb 28 j 20:23	25° A 29'09	
opposition	-11610 Mar 04 j 14:52	19° II 37'11	2°21'22					
min. Earth dist.	-11610 Mar 04 j 19:48	19° II 35'37	4.22763 AU	conjunction		-11604 Mar 13 j 11:31	28° A 34'22	-1°27'32
direct	-11610 May 04 j 11:06	14° II 43'42		minimum elong		-11604 Mar 13 j 11:36	28° A 34'24	1°28'10
	-11610 Aug 22 j 21:47	0° E		max. Earth dist.		-11604 Mar 13 j 13:01	28° A 35'12	6.18831 AU
evening set	-11610 Sep 04 j 17:15	2° E 54'42				-11604 Mar 19 j 18:32	0° B	
				morning rise		-11604 Mar 27 j 00:55	1° B 38'32	
conjunction	-11610 Sep 17 j 06:59	5° E 48'54	1°20'19	retrograde		-11604 Jul 28 j 18:32	19° B 55'46	
minimum elong	-11610 Sep 17 j 07:05	5° E 48'57	1°20'58	opposition		-11604 Sep 25 j 18:45	14° B 57'51	-1°41'17
max. Earth dist.	-11610 Sep 17 j 08:22	5° E 49'42	6.19012 AU	min. Earth dist.		-11604 Sep 25 j 22:43	14° B 56'31	4.22546 AU
morning rise	-11610 Sep 29 j 23:08	8° E 44'28		direct		-11604 Nov 25 j 11:22	9° B 53'29	
retrograde	-11609 Feb 06 j 02:28	27° E 49'16		evening set		-11603 Apr 03 j 17:13	28° B 39'07	
opposition	-11609 Apr 08 j 13:17	22° E 49'43	1°25'13			-11603 Apr 09 j 18:02	0° A	
min. Earth dist.	-11609 Apr 08 j 05:50	22° E 52'08	4.15451 AU					
direct	-11609 Jun 07 j 03:36	17° E 56'51		conjunction		-11603 Apr 17 j 03:35	1° A 39'36	-0°43'24
	-11609 Sep 09 j 13:15	0° O		minimum elong		-11603 Apr 17 j 03:39	1° A 39'38	0°43'59
evening set	-11609 Oct 07 j 21:15	6° O 22'26		max. Earth dist.		-11603 Apr 16 j 14:18	1° A 32'08	6.25977 AU
				morning rise		-11603 Apr 30 j 10:37	4° A 38'21	
conjunction	-11609 Oct 20 j 21:05	9° O 24'05	0°30'10			-11603 Jun 19 j 11:11	15° A	
minimum elong	-11609 Oct 20 j 21:09	9° O 24'07	0°30'42	retrograde		-11603 Aug 29 j 21:42	22° A 18'11	
max. Earth dist.	-11609 Oct 21 j 14:24	9° O 34'12	6.12211 AU	opposition		-11603 Oct 28 j 09:09	17° A 23'49	-0°24'01
morning rise	-11609 Nov 03 j 00:23	12° O 27'40		min. Earth dist.		-11603 Oct 28 j 22:13	17° A 19'32	4.28960 AU
	-11609 Nov 14 j 01:49	15° O				-11603 Nov 16 j 10:24	15° R A	
	-11608 Feb 04 j 20:28	0° M		direct		-11603 Dec 29 j 03:26	12° A 20'17	
retrograde	-11608 Mar 13 j 01:51	2° M 05'52				-11602 Feb 10 j 01:53	15° A	
	-11608 Apr 19 j 02:04	30° R O		asc. node		-11602 Feb 17 j 01:36	15° A 52'33	
desc. node	-11608 May 05 j 04:53	28° O 03'41				-11602 May 03 j 12:21	0° H	
opposition	-11608 May 12 j 20:58	27° O 02'53	-0°01'48	evening set		-11602 May 06 j 22:57	0° H 45'40	
min. Earth dist.	-11608 May 12 j 05:17	27° O 08'06	4.09660 AU	max. Earth dist.		-11602 May 18 j 23:53	3° H 26'40	6.31231 AU
direct	-11608 Jul 10 j 12:53	22° O 08'39						

Attention, astronomical year style is used: The year -11602 in astronomical counting style is the year 11603 BCE in historical counting style.

conjunction	-11602 May 20 j 00:54	3° H 40'38	0°13'18	opposition	-11596 May 17 j 18:24	1° H 58'02	-0°14'42
minimum elong	-11602 May 20 j 00:53	3° H 40'37	0°12'59	min. Earth dist.	-11596 May 17 j 01:47	2° H 03'34	4.09084 AU
behind sun begin	-11602 May 19 j 19:58	3° H 37'53			-11596 Jun 01 j 22:50	30° R Q	
behind sun end	-11602 May 20 j 05:47	3° H 43'21		direct	-11596 Jul 15 j 06:58	27° Ω 03'31	
morning rise	-11602 Jun 01 j 23:33	6° H 33'52			-11596 Aug 27 j 01:06	0° H	
retrograde	-11602 Sep 30 j 16:57	23° H 55'31		evening set	-11596 Nov 15 j 19:53	15° H 51'43	
opposition	-11602 Nov 29 j 21:16	19° H 03'18	0°58'46				
min. Earth dist.	-11602 Nov 30 j 16:05	18° H 57'15	4.32686 AU	conjunction	-11596 Nov 29 j 06:41	19° H 00'13	-0°39'40
direct	-11601 Jan 31 j 06:39	14° H 01'58		minimum elong	-11596 Nov 29 j 06:37	19° H 00'10	0°39'29
	-11601 May 28 j 22:27	0° Y		max. Earth dist.	-11596 Nov 30 j 10:15	19° H 16'20	6.07584 AU
evening set	-11601 Jun 07 j 21:43	2° Y 11'49		morning rise	-11596 Dec 12 j 20:54	22° H 10'28	
max. Earth dist.	-11601 Jun 19 j 11:54	4° Y 47'07	6.33090 AU		-11595 Jan 16 j 22:30	0° A	
				retrograde	-11595 Apr 23 j 02:12	12° A 03'05	
conjunction	-11601 Jun 20 j 14:19	5° Y 01'56	1°05'16	opposition	-11595 Jun 21 j 23:14	6° A 58'08	-1°39'56
minimum elong	-11601 Jun 20 j 14:14	5° Y 01'53	1°05'18	min. Earth dist.	-11595 Jun 21 j 04:15	7° A 04'36	4.07280 AU
morning rise	-11601 Jul 03 j 04:02	7° Y 50'40		direct	-11595 Aug 19 j 03:54	2° A 00'34	
retrograde	-11601 Nov 01 j 18:21	25° Y 16'36		evening set	-11595 Dec 22 j 13:09	21° A 06'47	
opposition	-11600 Jan 01 j 16:50	20° Y 24'46	2°03'46				
min. Earth dist.	-11600 Jan 02 j 11:06	20° Y 18'59	4.32645 AU	conjunction	-11594 Jan 05 j 05:17	24° A 17'09	-1°27'16
direct	-11600 Mar 04 j 01:37	15° Y 26'31		minimum elong	-11594 Jan 05 j 05:11	24° A 17'05	1°27'29
	-11600 Jun 22 j 09:26	0° B		max. Earth dist.	-11594 Jan 06 j 09:51	24° A 33'45	6.07968 AU
evening set	-11600 Jul 08 j 03:26	3° B 28'42		morning rise	-11594 Jan 18 j 23:01	27° A 28'20	
					-11594 Jan 30 j 00:19	0° M	
conjunction	-11600 Jul 20 j 12:53	6° B 16'21	1°38'08		-11594 Apr 22 j 06:38	15° M	
minimum elong	-11600 Jul 20 j 12:49	6° B 16'19	1°38'29	retrograde	-11594 May 28 j 10:21	17° M 04'34	
max. Earth dist.	-11600 Jul 19 j 13:48	6° B 03'18	6.31005 AU		-11594 Jul 03 j 04:33	15° R M	
morning rise	-11600 Aug 01 j 21:20	9° B 03'32		opposition	-11594 Jul 26 j 14:21	12° M 00'30	-2°28'41
	-11600 Aug 29 j 03:26	15° B		min. Earth dist.	-11594 Jul 25 j 23:46	12° M 05'30	4.09948 AU
retrograde	-11600 Dec 03 j 17:49	26° B 53'54		direct	-11594 Sep 23 j 04:36	6° M 59'34	
opposition	-11599 Feb 03 j 04:31	22° B 00'34	2°32'56		-11594 Dec 07 j 00:15	15° M	
min. Earth dist.	-11599 Feb 03 j 17:51	21° B 56'21	4.28745 AU	evening set	-11593 Jan 28 j 16:08	26° M 11'41	
direct	-11599 Apr 05 j 22:46	17° B 05'15					
	-11599 Jul 16 j 03:39	0° II		conjunction	-11593 Feb 11 j 08:59	29° M 20'13	-1°43'01
evening set	-11599 Aug 08 j 07:57	5° II 08'06		minimum elong	-11593 Feb 11 j 08:59	29° M 20'14	1°43'33
				max. Earth dist.	-11593 Feb 12 j 01:13	29° M 29'33	6.12559 AU
conjunction	-11599 Aug 20 j 16:42	7° II 57'25	1°42'14		-11593 Feb 14 j 06:15	0° A	
minimum elong	-11599 Aug 20 j 16:43	7° II 57'26	1°42'49	morning rise	-11593 Feb 25 j 01:44	2° A 28'32	
max. Earth dist.	-11599 Aug 20 j 05:27	7° II 50'59	6.25534 AU	retrograde	-11593 Jul 01 j 12:21	21° A 26'01	
morning rise	-11599 Sep 02 j 02:08	10° II 47'15		opposition	-11593 Aug 29 j 10:02	16° A 24'48	-2°24'02
retrograde	-11598 Jan 06 j 19:17	29° II 15'25		min. Earth dist.	-11593 Aug 29 j 04:08	16° A 26'48	4.16050 AU
opposition	-11598 Mar 09 j 11:20	24° II 19'06	2°16'00	direct	-11593 Oct 28 j 00:39	11° A 21'18	
min. Earth dist.	-11598 Mar 09 j 13:59	24° II 18'15	4.22085 AU		-11592 Mar 03 j 03:32	0° B	
direct	-11598 May 09 j 03:13	19° II 25'50		evening set	-11592 Mar 04 j 21:45	0° B 23'43	
	-11598 Aug 05 j 15:44	0° C					
evening set	-11598 Sep 09 j 06:09	7° C 37'22		conjunction	-11592 Mar 18 j 12:36	3° B 28'28	-1°22'37
				minimum elong	-11592 Mar 18 j 12:41	3° B 28'31	1°23'16
conjunction	-11598 Sep 21 j 21:00	10° C 32'23	1°14'40	max. Earth dist.	-11592 Mar 18 j 13:19	3° B 28'52	6.19687 AU
minimum elong	-11598 Sep 21 j 21:06	10° C 32'26	1°15'18	morning rise	-11592 Apr 01 j 01:12	6° B 31'59	
max. Earth dist.	-11598 Sep 22 j 00:16	10° C 34'16	6.18283 AU	retrograde	-11592 Aug 02 j 10:40	24° B 43'38	
morning rise	-11598 Oct 04 j 14:27	13° C 28'52		opposition	-11592 Sep 30 j 11:03	19° B 46'14	-1°31'30
	-11598 Dec 30 j 19:51	0° Ω		min. Earth dist.	-11592 Sep 30 j 16:10	19° B 44'31	4.23453 AU
retrograde	-11597 Feb 11 j 01:53	2° Ω 38'07		direct	-11592 Nov 30 j 07:25	14° B 41'54	
	-11597 Mar 25 j 11:50	30° R C			-11591 Mar 24 j 00:31	0° A	
opposition	-11597 Apr 13 j 10:36	27° C 38'05	1°14'23	evening set	-11591 Apr 08 j 13:21	3° A 24'40	
min. Earth dist.	-11597 Apr 13 j 02:49	27° C 40'38	4.14691 AU				
direct	-11597 Jun 11 j 22:42	22° C 45'06		conjunction	-11591 Apr 21 j 22:39	6° A 24'23	-0°35'39
	-11597 Aug 21 j 06:10	0° Ω		minimum elong	-11591 Apr 21 j 22:42	6° A 24'25	0°36'11
evening set	-11597 Oct 12 j 14:57	11° Ω 12'44		max. Earth dist.	-11591 Apr 21 j 07:01	6° A 15'37	6.26862 AU
				morning rise	-11591 May 05 j 04:42	9° A 22'22	
conjunction	-11597 Oct 25 j 16:17	14° Ω 15'22	0°21'50		-11591 May 31 j 03:19	15° A	
minimum elong	-11597 Oct 25 j 16:19	14° Ω 15'23	0°22'20	retrograde	-11591 Sep 03 j 10:24	26° A 58'07	
max. Earth dist.	-11597 Oct 26 j 10:54	14° Ω 26'14	6.11509 AU	opposition	-11591 Nov 02 j 00:21	22° A 04'03	-0°11'56
	-11597 Oct 28 j 20:44	15° Ω		min. Earth dist.	-11591 Nov 02 j 14:16	21° A 59'29	4.29741 AU
morning rise	-11597 Nov 07 j 21:10	17° Ω 19'57		asc. node	-11591 Dec 27 j 10:18	17° A 04'34	
	-11596 Jan 06 j 23:26	0° H		direct	-11590 Jan 02 j 21:30	17° A 00'39	
desc. node	-11596 Mar 15 j 22:23	7° H 00'52			-11590 Apr 16 j 15:05	0° H	
retrograde	-11596 Mar 18 j 02:00	7° H 01'18		evening set	-11590 May 11 j 13:50	5° H 23'03	

Attention, astronomical year style is used: The year -11590 in astronomical counting style is the year 11591 BCE in historical counting style.

conjunction	-11590 May 24 j 14:31	8° H 17'12	0°21'22	max. Earth dist.	-11585 Oct 31 j 10:48	19° Ω 26'34	6.10520 AU
minimum elong	-11590 May 24 j 14:29	8° H 17'11	0°21'05	morning rise	-11585 Nov 12 j 21:48	22° Ω 20'53	
max. Earth dist.	-11590 May 23 j 14:06	8° H 03'34	6.31839 AU		-11585 Dec 17 j 04:42	0° H	
morning rise	-11590 Jun 06 j 11:42	11° H 09'36		desc. node	-11584 Jan 23 j 15:17	6° H 59'21	
retrograde	-11590 Oct 05 j 05:10	28° H 29'55		retrograde	-11584 Mar 23 j 05:44	12° H 06'20	
opposition	-11590 Dec 04 j 12:24	23° H 37'50	1°09'34	opposition	-11584 May 22 j 19:38	7° H 02'40	-0°27'57
min. Earth dist.	-11590 Dec 05 j 07:16	23° H 31'47	4.33061 AU	min. Earth dist.	-11584 May 22 j 02:07	7° H 08'33	4.08348 AU
direct	-11589 Feb 04 j 22:49	18° H 36'53		direct	-11584 Jul 20 j 06:00	2° H 07'49	
	-11589 May 11 j 20:43	0° Y		evening set	-11584 Nov 21 j 00:20	20° H 59'48	
evening set	-11589 Jun 12 j 08:48	6° Y 44'32					
conjunction	-11589 Jun 24 j 24:00	9° Y 34'01	1°11'22	conjunction	-11584 Dec 04 j 12:21	24° H 08'57	-0°47'51
minimum elong	-11589 Jun 24 j 23:54	9° Y 33'58	1°11'27	minimum elong	-11584 Dec 04 j 12:16	24° H 08'54	0°47'44
max. Earth dist.	-11589 Jun 23 j 20:14	9° Y 18'28	6.33159 AU	max. Earth dist.	-11584 Dec 05 j 18:17	24° H 26'28	6.07190 AU
morning rise	-11589 Jul 07 j 12:50	12° Y 22'18		morning rise	-11584 Dec 18 j 03:21	27° H 19'44	
retrograde	-11589 Nov 06 j 09:08	29° Y 50'06			-11584 Dec 29 j 18:10	0° Ω	
opposition	-11588 Jan 06 j 09:30	24° Y 58'06	2°10'23	retrograde	-11583 Apr 28 j 06:18	17° Ω 12'20	
min. Earth dist.	-11588 Jan 07 j 03:50	24° Y 52'17	4.32410 AU	opposition	-11583 Jun 26 j 23:48	12° Ω 07'28	-1°49'48
direct	-11588 Mar 08 j 17:34	20° Y 00'11		min. Earth dist.	-11583 Jun 26 j 04:55	12° Ω 13'54	4.07323 AU
	-11588 Jun 04 j 22:26	0° B		direct	-11583 Aug 24 j 04:20	7° Ω 09'32	
evening set	-11588 Jul 12 j 12:49	8° B 01'37		evening set	-11583 Dec 27 j 21:31	26° Ω 17'42	
conjunction	-11588 Jul 24 j 21:52	10° B 49'14	1°40'36	conjunction	-11582 Jan 10 j 13:49	29° Ω 27'56	-1°31'44
minimum elong	-11588 Jul 24 j 21:49	10° B 49'13	1°41'00	minimum elong	-11582 Jan 10 j 13:43	29° Ω 27'53	1°32'00
max. Earth dist.	-11588 Jul 24 j 00:52	10° B 37'21	6.30465 AU	max. Earth dist.	-11582 Jan 11 j 16:54	29° Ω 43'39	6.08442 AU
morning rise	-11588 Aug 06 j 05:52	13° B 36'28		morning rise	-11582 Jan 12 j 21:05	0° H	
	-11588 Aug 12 j 11:06	15° B			-11582 Jan 24 j 07:48	2° H 38'54	
retrograde	-11588 Nov 06 j 15:05	0° H			-11582 Mar 23 j 19:23	15° H	
	-11588 Dec 08 j 10:33	1° H 31'19		retrograde	-11582 Jun 02 j 08:49	22° H 10'21	
opposition	-11587 Jan 09 j 11:25	30° R B		opposition	-11582 Jul 31 j 12:19	17° H 06'35	-2°31'20
min. Earth dist.	-11587 Feb 07 j 23:25	26° B 37'38	2°33'27	min. Earth dist.	-11582 Jul 30 j 21:40	17° H 11'36	4.10858 AU
direct	-11587 Feb 08 j 11:15	26° B 33'53	4.27943 AU	direct	-11582 Aug 16 j 10:26	15° R H	
	-11587 Apr 10 j 14:26	21° B 42'41			-11582 Sep 28 j 05:28	12° H 05'16	
evening set	-11587 Jun 27 j 18:18	0° H			-11582 Nov 10 j 06:26	15° H	
	-11587 Aug 12 j 18:51	9° H 46'18		evening set	-11581 Jan 28 j 08:32	0° B	
conjunction	-11587 Aug 25 j 03:55	12° H 36'12	1°40'12	conjunction	-11581 Feb 02 j 22:19	1° B 15'50	
minimum elong	-11587 Aug 25 j 03:58	12° H 36'13	1°40'49	minimum elong	-11581 Feb 16 j 15:04	4° B 23'44	-1°42'10
max. Earth dist.	-11587 Aug 24 j 17:23	12° H 30'09	6.24524 AU	max. Earth dist.	-11581 Feb 16 j 15:05	4° B 23'45	1°42'44
morning rise	-11587 Sep 06 j 14:10	15° H 26'46		morning rise	-11581 Feb 17 j 07:01	4° B 32'52	6.13848 AU
	-11587 Nov 19 j 19:22	0° Ω		retrograde	-11581 Mar 02 j 07:11	7° B 31'13	
retrograde	-11586 Jan 11 j 17:48	4° Ω 01'00		retrograde	-11581 Jul 06 j 07:00	26° B 20'38	
	-11586 Mar 07 j 01:41	30° R H		opposition	-11581 Sep 03 j 04:00	21° B 19'57	-2°19'00
opposition	-11586 Mar 14 j 09:01	29° H 04'09	2°09'47	min. Earth dist.	-11581 Sep 02 j 23:42	21° B 21'25	4.17588 AU
min. Earth dist.	-11586 Mar 14 j 10:46	29° H 03'35	4.20918 AU	direct	-11581 Nov 01 j 23:37	16° B 16'18	
direct	-11586 May 13 j 21:33	24° H 10'57		evening set	-11580 Feb 15 j 00:44	0° B	
	-11586 Jul 16 j 00:25	0° Ω			-11580 Mar 09 j 21:33	5° B 14'09	
evening set	-11586 Sep 13 j 21:03	12° Ω 24'48		conjunction	-11580 Mar 23 j 11:41	8° B 17'56	-1°17'14
conjunction	-11586 Sep 26 j 13:21	15° Ω 20'57	1°08'26	minimum elong	-11580 Mar 23 j 11:46	8° B 17'59	1°17'53
minimum elong	-11586 Sep 26 j 13:27	15° Ω 21'00	1°09'04	max. Earth dist.	-11580 Mar 23 j 10:05	8° B 17'02	6.21349 AU
max. Earth dist.	-11586 Sep 26 j 19:09	15° Ω 24'19	6.17078 AU	morning rise	-11580 Apr 05 j 23:27	11° B 20'25	
morning rise	-11586 Oct 09 j 08:19	18° Ω 18'40		retrograde	-11580 Aug 06 j 21:08	29° B 23'54	
	-11586 Dec 03 j 14:47	0° Ω		opposition	-11580 Oct 05 j 00:38	24° B 27'00	-1°21'22
retrograde	-11585 Feb 16 j 03:55	7° Ω 33'53		min. Earth dist.	-11580 Oct 05 j 06:39	24° B 24'59	4.25086 AU
opposition	-11585 Apr 18 j 10:44	2° Ω 33'23	1°02'48	direct	-11580 Dec 05 j 01:08	19° B 22'40	
min. Earth dist.	-11585 Apr 18 j 01:21	2° Ω 36'27	4.13543 AU		-11579 Mar 06 j 11:38	0° \approx	
	-11585 May 09 j 01:09	30° R Ω		evening set	-11579 Apr 13 j 05:17	8° \approx 00'12	
direct	-11585 Jun 16 j 18:12	27° Ω 40'19		conjunction	-11579 Apr 26 j 13:26	10° \approx 58'50	-0°27'56
	-11585 Jul 24 j 22:09	0° Ω		minimum elong	-11579 Apr 26 j 13:29	10° \approx 58'52	0°28'27
	-11585 Oct 12 j 09:05	15° Ω		max. Earth dist.	-11579 Apr 25 j 20:07	10° \approx 49'09	6.28353 AU
evening set	-11585 Oct 17 j 12:31	16° Ω 11'26		morning rise	-11579 May 09 j 18:13	13° \approx 55'43	
conjunction	-11585 Oct 30 j 15:17	19° Ω 15'09	0°13'08		-11579 May 14 j 14:21	15° \approx	
minimum elong	-11585 Oct 30 j 15:18	19° Ω 15'10	0°13'34		-11579 Aug 08 j 17:37	0° H	
behind sun begin	-11585 Oct 30 j 10:47	19° Ω 12'32		retrograde	-11579 Sep 07 j 19:07	1° H 26'01	
behind sun end	-11585 Oct 30 j 19:49	19° Ω 17'48			-11579 Oct 07 j 21:10	30° R \approx	
				opposition	-11579 Nov 06 j 11:13	26° \approx 32'23	-0°00'18

Attention, astronomical year style is used: The year -11579 in astronomical counting style is the year 11580 BCE in historical counting style.

min. Earth dist.	-11579 Nov 07 j 02:55	26° \approx 27'15	4.30953 AU	direct	-11573 Jun 21 j 13:47	2° Ω 37'22	
asc. node	-11579 Nov 07 j 19:56	26° \approx 21'43			-11573 Sep 24 j 23:28	15° Ω	
direct	-11578 Jan 07 j 12:04	21° \approx 29'17		evening set	-11573 Oct 22 j 11:25	21° Ω 13'13	
	-11578 Mar 29 j 14:14	0° \mathbb{X}					
evening set	-11578 May 15 j 23:07	9° \mathbb{X} 47'29		conjunction	-11573 Nov 04 j 15:56	24° Ω 18'11	0°04'16
				minimum elong	-11573 Nov 04 j 15:57	24° Ω 18'12	0°04'40
conjunction	-11578 May 28 j 22:24	12° \mathbb{X} 40'44	0°28'56	behind sun begin	-11573 Nov 04 j 07:55	24° Ω 13'31	
minimum elong	-11578 May 28 j 22:21	12° \mathbb{X} 40'42	0°28'42	behind sun end	-11573 Nov 04 j 23:59	24° Ω 22'53	
max. Earth dist.	-11578 May 27 j 19:32	12° \mathbb{X} 25'44	6.32656 AU	max. Earth dist.	-11573 Nov 05 j 15:26	24° Ω 31'57	6.09375 AU
morning rise	-11578 Jun 10 j 18:22	15° \mathbb{X} 32'17		morning rise	-11573 Nov 17 j 23:56	27° Ω 25'07	
	-11578 Aug 27 j 02:43	0° \mathbb{Y}			-11573 Nov 29 j 05:00	0° \mathbb{Y}	
retrograde	-11578 Oct 09 j 12:25	2° \mathbb{Y} 51'18		desc. node	-11573 Dec 01 j 19:00	0° \mathbb{Y} 35'13	
	-11578 Nov 22 j 17:26	30° \mathbb{R} \mathbb{X}		retrograde	-11572 Mar 28 j 11:19	17° \mathbb{Y} 14'30	
opposition	-11578 Dec 08 j 22:35	27° \mathbb{X} 59'20	1°19'26	opposition	-11572 May 27 j 21:28	12° \mathbb{Y} 10'29	-0°41'05
min. Earth dist.	-11578 Dec 09 j 18:13	27° \mathbb{X} 53'03	4.33444 AU	min. Earth dist.	-11572 May 27 j 03:09	12° \mathbb{Y} 16'38	4.07654 AU
direct	-11577 Feb 09 j 09:37	22° \mathbb{X} 58'44		direct	-11572 Jul 25 j 05:34	7° \mathbb{Y} 15'16	
	-11577 Apr 23 j 04:07	0° \mathbb{Y}		evening set	-11572 Nov 26 j 06:09	26° \mathbb{Y} 10'38	
evening set	-11577 Jun 16 j 14:29	11° \mathbb{Y} 04'38					
max. Earth dist.	-11577 Jun 28 j 01:18	13° \mathbb{Y} 38'18	6.33067 AU	conjunction	-11572 Dec 09 j 18:57	29° \mathbb{Y} 20'14	-0°55'42
				minimum elong	-11572 Dec 09 j 18:51	29° \mathbb{Y} 20'11	0°55'40
conjunction	-11577 Jun 29 j 04:40	13° \mathbb{Y} 53'39	1°16'46	max. Earth dist.	-11572 Dec 11 j 00:52	29° \mathbb{Y} 37'44	6.06968 AU
minimum elong	-11577 Jun 29 j 04:34	13° \mathbb{Y} 53'37	1°16'53		-11572 Dec 12 j 14:58	0° \mathbb{Z}	
morning rise	-11577 Jul 11 j 16:24	16° \mathbb{Y} 41'33		morning rise	-11572 Dec 23 j 10:55	2° \mathbb{Z} 31'25	
	-11577 Sep 18 j 00:25	0° \mathbb{Z}		retrograde	-11571 May 03 j 08:00	22° \mathbb{Z} 22'41	
retrograde	-11577 Nov 10 j 18:57	4° \mathbb{Z} 12'10		min. Earth dist.	-11571 Jul 01 j 04:20	17° \mathbb{Z} 24'27	4.07592 AU
	-11576 Jan 05 j 15:01	30° \mathbb{R} \mathbb{Y}		opposition	-11571 Jul 02 j 00:12	17° \mathbb{Z} 17'40	-1°58'48
opposition	-11576 Jan 10 j 21:18	29° \mathbb{Y} 20'08	2°15'58	direct	-11571 Aug 29 j 05:25	12° \mathbb{Z} 19'10	
min. Earth dist.	-11576 Jan 11 j 16:00	29° \mathbb{Y} 14'12	4.31858 AU		-11571 Dec 26 j 19:53	0° \mathbb{L}	
direct	-11576 Mar 13 j 04:09	24° \mathbb{Y} 22'40		evening set	-11570 Jan 02 j 05:35	1° \mathbb{L} 28'07	
	-11576 May 16 j 00:05	0° \mathbb{Z}					
evening set	-11576 Jul 16 j 18:18	12° \mathbb{Z} 24'51		conjunction	-11570 Jan 15 j 22:12	4° \mathbb{L} 38'06	-1°35'30
max. Earth dist.	-11576 Jul 28 j 04:42	15° \mathbb{Z} 00'05	6.29478 AU	minimum elong	-11570 Jan 15 j 22:08	4° \mathbb{L} 38'03	1°35'50
	-11576 Jul 28 j 04:34	15° \mathbb{Z}		max. Earth dist.	-11570 Jan 17 j 01:25	4° \mathbb{L} 53'52	6.09129 AU
				morning rise	-11570 Jan 29 j 15:57	7° \mathbb{L} 48'37	
conjunction	-11576 Jul 29 j 02:53	15° \mathbb{Z} 12'40	1°42'22		-11570 Mar 03 j 00:44	15° \mathbb{L}	
minimum elong	-11576 Jul 29 j 02:50	15° \mathbb{Z} 12'38	1°42'48	retrograde	-11570 Jun 07 j 08:01	27° \mathbb{L} 14'14	
morning rise	-11576 Aug 10 j 10:59	18° \mathbb{Z} 00'17		opposition	-11570 Aug 05 j 09:20	22° \mathbb{L} 10'44	-2°32'51
	-11576 Oct 08 j 08:49	0° \mathbb{I}		min. Earth dist.	-11570 Aug 04 j 20:29	22° \mathbb{L} 15'08	4.11860 AU
retrograde	-11576 Dec 13 j 02:04	6° \mathbb{I} 01'27		direct	-11570 Oct 03 j 06:35	17° \mathbb{L} 08'57	
opposition	-11575 Feb 12 j 15:05	1° \mathbb{I} 07'27	2°33'01		-11569 Jan 10 j 15:48	0° \mathbb{J}	
min. Earth dist.	-11575 Feb 13 j 02:16	1° \mathbb{I} 03'54	4.26593 AU	evening set	-11569 Feb 08 j 03:34	6° \mathbb{J} 17'35	
	-11575 Feb 21 j 13:33	30° \mathbb{R} \mathbb{Z}					
direct	-11575 Apr 15 j 02:28	26° \mathbb{Z} 12'46		conjunction	-11569 Feb 21 j 20:05	9° \mathbb{J} 24'53	-1°40'38
	-11575 Jun 04 j 23:14	0° \mathbb{I}		minimum elong	-11569 Feb 21 j 20:07	9° \mathbb{J} 24'54	1°41'13
evening set	-11575 Aug 17 j 03:15	14° \mathbb{I} 19'21		max. Earth dist.	-11569 Feb 22 j 09:44	9° \mathbb{J} 32'40	6.15045 AU
				morning rise	-11569 Mar 07 j 11:44	12° \mathbb{J} 31'36	
conjunction	-11575 Aug 29 j 13:14	17° \mathbb{I} 10'14	1°37'34		-11569 Jun 13 j 14:05	0° \mathbb{Z}	
minimum elong	-11575 Aug 29 j 13:17	17° \mathbb{I} 10'16	1°38'11	retrograde	-11569 Jul 10 j 22:27	1° \mathbb{Z} 13'27	
max. Earth dist.	-11575 Aug 29 j 05:26	17° \mathbb{I} 05'45	6.22940 AU		-11569 Aug 07 j 02:41	30° \mathbb{R} \mathbb{J}	
morning rise	-11575 Sep 11 j 00:19	20° \mathbb{I} 01'53		opposition	-11569 Sep 07 j 21:07	26° \mathbb{J} 13'14	-2°13'08
	-11575 Oct 27 j 16:04	0° \mathbb{S}		min. Earth dist.	-11569 Sep 07 j 17:33	26° \mathbb{J} 14'26	4.18856 AU
retrograde	-11574 Jan 16 j 15:39	8° \mathbb{S} 44'15		direct	-11569 Nov 06 j 20:08	21° \mathbb{J} 09'19	
opposition	-11574 Mar 19 j 05:25	3° \mathbb{S} 46'59	2°02'46		-11568 Jan 26 j 23:21	0° \mathbb{Z}	
min. Earth dist.	-11574 Mar 19 j 05:46	3° \mathbb{S} 46'52	4.19217 AU	evening set	-11568 Mar 14 j 20:52	10° \mathbb{Z} 03'50	
	-11574 Apr 22 j 00:54	30° \mathbb{R} \mathbb{I}					
direct	-11574 May 18 j 12:59	28° \mathbb{I} 53'58		conjunction	-11568 Mar 28 j 10:17	13° \mathbb{Z} 06'50	-1°11'21
	-11574 Jun 13 j 20:27	0° \mathbb{S}		minimum elong	-11568 Mar 28 j 10:23	13° \mathbb{Z} 06'53	1°12'00
evening set	-11574 Sep 18 j 12:01	17° \mathbb{S} 12'11		max. Earth dist.	-11568 Mar 28 j 05:34	13° \mathbb{Z} 04'11	6.22596 AU
				morning rise	-11568 Apr 10 j 21:16	16° \mathbb{Z} 08'28	
conjunction	-11574 Oct 01 j 05:40	20° \mathbb{S} 09'41	1°01'43		-11568 Jun 20 j 15:27	0° \mathbb{Z}	
minimum elong	-11574 Oct 01 j 05:45	20° \mathbb{S} 09'44	1°02'21	retrograde	-11568 Aug 11 j 11:09	4° \mathbb{Z} 05'42	
max. Earth dist.	-11574 Oct 01 j 12:44	20° \mathbb{S} 13'48	6.15423 AU		-11568 Oct 03 j 06:06	30° \mathbb{R} \mathbb{Z}	
morning rise	-11574 Oct 14 j 02:26	23° \mathbb{S} 08'53		opposition	-11568 Oct 09 j 15:23	29° \mathbb{Z} 09'19	-1°10'44
	-11574 Nov 13 j 18:57	0° \mathbb{L}		min. Earth dist.	-11568 Oct 09 j 23:50	29° \mathbb{Z} 06'31	4.26183 AU
retrograde	-11573 Feb 21 j 06:40	12° \mathbb{L} 31'39		direct	-11568 Dec 09 j 20:42	24° \mathbb{Z} 05'03	
opposition	-11573 Apr 23 j 10:51	7° \mathbb{L} 30'35	0°50'42		-11567 Feb 13 j 11:22	0° \mathbb{Z}	
min. Earth dist.	-11573 Apr 22 j 23:22	7° \mathbb{L} 34'21	4.12064 AU	evening set	-11567 Apr 17 j 22:22	12° \mathbb{Z} 39'11	

Attention, astronomical year style is used: The year -11567 in astronomical counting style is the year 11568 BCE in historical counting style.

	-11567 Apr 28 j 11:11	15° \approx		max. Earth dist.	-11562 Oct 06 j 12:11	25° \approx 10'34	6.14602 AU
max. Earth dist.	-11567 Apr 30 j 10:28	15° \approx 26'25	6.29220 AU	morning rise	-11562 Oct 18 j 23:03	28° \approx 04'14	
					-11562 Oct 27 j 08:40	0° Ω	
conjunction	-11567 May 01 j 05:31	15° \approx 37'04	-0°19'58		-11561 Jan 16 j 06:59	15° Ω	
minimum elong	-11567 May 01 j 05:33	15° \approx 37'05	0°20'27	retrograde	-11561 Feb 26 j 10:06	17° Ω 31'04	
morning rise	-11567 May 14 j 09:06	18° \approx 33'07			-11561 Apr 08 j 12:00	15° \mathbb{R} Ω	
	-11567 Jul 09 j 23:33	0° \mathbb{H}		opposition	-11561 Apr 28 j 11:45	12° Ω 29'32	0°38'10
retrograde	-11567 Sep 12 j 05:27	6° \mathbb{H} 00'19		min. Earth dist.	-11561 Apr 27 j 23:23	12° Ω 33'36	4.11489 AU
asc. node	-11567 Sep 17 j 13:03	5° \mathbb{H} 57'32		direct	-11561 Jun 26 j 11:53	7° Ω 36'11	
opposition	-11567 Nov 11 j 00:58	1° \mathbb{H} 06'59	0°11'36		-11561 Sep 05 j 06:13	15° Ω	
min. Earth dist.	-11567 Nov 11 j 17:01	1° \mathbb{H} 01'46	4.31542 AU	desc. node	-11561 Oct 10 j 19:28	22° Ω 24'55	
	-11567 Nov 19 j 16:42	30° \mathbb{R} \approx		evening set	-11561 Oct 27 j 10:25	26° Ω 13'43	
direct	-11566 Jan 12 j 03:29	26° \approx 04'09					
	-11566 Mar 06 j 04:22	0° \mathbb{H}		conjunction	-11561 Nov 09 j 16:06	29° Ω 19'21	-0°04'42
evening set	-11566 May 20 j 11:54	14° \mathbb{H} 20'16		minimum elong	-11561 Nov 09 j 16:05	29° Ω 19'21	0°04'19
max. Earth dist.	-11566 Jun 01 j 06:09	16° \mathbb{H} 57'22	6.32927 AU	behind sun begin	-11561 Nov 09 j 08:00	29° Ω 14'38	
				behind sun end	-11561 Nov 10 j 00:11	29° Ω 24'04	
conjunction	-11566 Jun 02 j 09:48	17° \mathbb{H} 12'48	0°36'35	max. Earth dist.	-11561 Nov 10 j 16:09	29° Ω 33'26	6.09086 AU
minimum elong	-11566 Jun 02 j 09:45	17° \mathbb{H} 12'46	0°36'25		-11561 Nov 12 j 13:32	0° \mathbb{H}	
morning rise	-11566 Jun 15 j 04:30	20° \mathbb{H} 03'44		morning rise	-11561 Nov 23 j 01:36	2° \mathbb{H} 27'00	
	-11566 Aug 02 j 08:25	0° \mathbb{Y}		retrograde	-11560 Apr 02 j 11:33	22° \mathbb{H} 17'03	
retrograde	-11566 Oct 14 j 01:32	7° \mathbb{Y} 23'13		opposition	-11560 Jun 01 j 20:44	17° \mathbb{H} 12'45	-0°53'38
opposition	-11566 Dec 13 j 13:33	2° \mathbb{Y} 31'25	1°29'17	min. Earth dist.	-11560 Jun 01 j 00:59	17° \mathbb{H} 19'24	4.07688 AU
min. Earth dist.	-11566 Dec 14 j 10:11	2° \mathbb{Y} 24'50	4.33392 AU	direct	-11560 Jul 30 j 03:18	12° \mathbb{H} 17'07	
	-11565 Jan 03 j 06:59	30° \mathbb{R} \mathbb{H}			-11560 Nov 26 j 01:43	0° $\underline{\Omega}$	
direct	-11565 Feb 14 j 01:41	27° \mathbb{H} 31'15		evening set	-11560 Dec 01 j 09:13	1° $\underline{\Omega}$ 13'43	
	-11565 Mar 27 j 14:44	0° \mathbb{Y}					
evening set	-11565 Jun 21 j 00:52	15° \mathbb{Y} 36'30		conjunction	-11560 Dec 14 j 22:52	4° $\underline{\Omega}$ 23'28	-1°02'56
max. Earth dist.	-11565 Jul 02 j 09:58	18° \mathbb{Y} 09'29	6.32671 AU	minimum elong	-11560 Dec 14 j 22:46	4° $\underline{\Omega}$ 23'24	1°02'56
				max. Earth dist.	-11560 Dec 16 j 05:47	4° $\underline{\Omega}$ 41'31	6.07303 AU
conjunction	-11565 Jul 03 j 13:58	18° \mathbb{Y} 25'12	1°22'00	morning rise	-11560 Dec 28 j 15:11	7° $\underline{\Omega}$ 34'36	
minimum elong	-11565 Jul 03 j 13:53	18° \mathbb{Y} 25'09	1°22'09	retrograde	-11559 May 08 j 07:32	27° $\underline{\Omega}$ 22'47	
morning rise	-11565 Jul 16 j 00:59	21° \mathbb{Y} 12'54		opposition	-11559 Jul 06 j 20:27	22° $\underline{\Omega}$ 17'52	-2°06'35
	-11565 Aug 26 j 16:54	0° \mathbb{B}		min. Earth dist.	-11559 Jul 06 j 02:18	22° $\underline{\Omega}$ 24'05	4.08194 AU
retrograde	-11565 Nov 15 j 10:33	8° \mathbb{B} 47'20		direct	-11559 Sep 03 j 04:07	17° $\underline{\Omega}$ 18'52	
opposition	-11564 Jan 15 j 15:04	3° \mathbb{B} 55'07	2°21'05		-11559 Dec 09 j 11:15	0° \mathbb{M}	
min. Earth dist.	-11564 Jan 16 j 08:32	3° \mathbb{B} 49'35	4.31183 AU	evening set	-11558 Jan 07 j 09:24	6° \mathbb{M} 27'52	
	-11564 Feb 20 j 12:01	30° \mathbb{R} \mathbb{Y}					
direct	-11564 Mar 17 j 19:08	28° \mathbb{Y} 58'06		conjunction	-11558 Jan 21 j 02:10	9° \mathbb{M} 37'32	-1°38'25
	-11564 Apr 13 j 01:36	0° \mathbb{B}		minimum elong	-11558 Jan 21 j 02:06	9° \mathbb{M} 37'30	1°38'48
	-11564 Jul 12 j 04:35	15° \mathbb{B}		max. Earth dist.	-11558 Jan 22 j 03:27	9° \mathbb{M} 52'09	6.09916 AU
evening set	-11564 Jul 21 j 04:46	17° \mathbb{B} 01'00		morning rise	-11558 Feb 03 j 19:50	12° \mathbb{M} 47'36	
					-11558 Feb 13 j 12:20	15° \mathbb{M}	
conjunction	-11564 Aug 02 j 13:13	19° \mathbb{B} 49'03	1°43'38		-11558 May 06 j 13:05	0° \mathbb{J}	
minimum elong	-11564 Aug 02 j 13:11	19° \mathbb{B} 49'02	1°44'06	retrograde	-11558 Jun 12 j 01:02	2° \mathbb{J} 07'30	
max. Earth dist.	-11564 Aug 01 j 18:01	19° \mathbb{B} 38'08	6.28584 AU		-11558 Jul 18 j 05:22	30° \mathbb{R} \mathbb{M}	
morning rise	-11564 Aug 14 j 21:10	22° \mathbb{B} 37'01		opposition	-11558 Aug 10 j 02:04	27° \mathbb{M} 04'24	-2°33'15
	-11564 Sep 17 j 22:43	0° \mathbb{I}		min. Earth dist.	-11558 Aug 09 j 13:54	27° \mathbb{M} 08'34	4.12767 AU
retrograde	-11564 Dec 17 j 23:03	10° \mathbb{I} 44'01		direct	-11558 Oct 08 j 01:10	22° \mathbb{M} 02'15	
opposition	-11563 Feb 17 j 12:19	5° \mathbb{I} 49'43	2°31'37		-11558 Dec 22 j 05:38	0° \mathbb{J}	
min. Earth dist.	-11563 Feb 17 j 22:24	5° \mathbb{I} 46'31	4.25564 AU	evening set	-11557 Feb 13 j 04:27	11° \mathbb{J} 09'40	
direct	-11563 Apr 19 j 20:28	0° \mathbb{I} 55'27					
evening set	-11563 Aug 21 j 16:31	19° \mathbb{I} 03'31		conjunction	-11557 Feb 26 j 20:39	14° \mathbb{J} 16'27	-1°38'26
				minimum elong	-11557 Feb 26 j 20:42	14° \mathbb{J} 16'28	1°39'03
conjunction	-11563 Sep 03 j 03:05	21° \mathbb{I} 55'09	1°34'14	max. Earth dist.	-11557 Feb 27 j 06:24	14° \mathbb{J} 22'01	6.15989 AU
minimum elong	-11563 Sep 03 j 03:09	21° \mathbb{I} 55'11	1°34'53	morning rise	-11557 Mar 12 j 11:52	17° \mathbb{J} 22'34	
max. Earth dist.	-11563 Sep 02 j 20:33	21° \mathbb{I} 51'23	6.21879 AU		-11557 May 13 j 00:50	0° \mathbb{Z}	
morning rise	-11563 Sep 15 j 15:23	24° \mathbb{I} 47'45		retrograde	-11557 Jul 15 j 13:15	5° \mathbb{Z} 58'28	
	-11563 Oct 08 j 22:04	0° \mathbb{D}		opposition	-11557 Sep 12 j 11:25	0° \mathbb{Z} 58'48	-2°06'34
retrograde	-11562 Jan 21 j 15:49	13° \mathbb{D} 36'07		min. Earth dist.	-11557 Sep 12 j 10:42	0° \mathbb{Z} 59'02	4.19732 AU
opposition	-11562 Mar 24 j 05:13	8° \mathbb{D} 38'18	1°54'42		-11557 Sep 19 j 18:16	30° \mathbb{R} \mathbb{J}	
min. Earth dist.	-11562 Mar 24 j 02:55	8° \mathbb{D} 39'03	4.18216 AU	direct	-11557 Nov 11 j 15:20	25° \mathbb{J} 54'44	
direct	-11562 May 23 j 07:50	3° \mathbb{D} 45'24			-11556 Jan 03 j 11:30	0° \mathbb{Z}	
evening set	-11562 Sep 23 j 05:35	22° \mathbb{D} 05'25		evening set	-11556 Mar 19 j 17:04	14° \mathbb{Z} 47'23	
conjunction	-11562 Oct 06 j 00:50	25° \mathbb{D} 03'58	0°54'30	conjunction	-11556 Apr 02 j 06:02	17° \mathbb{Z} 49'54	-1°05'09
minimum elong	-11562 Oct 06 j 00:56	25° \mathbb{D} 04'01	0°55'06	minimum elong	-11556 Apr 02 j 06:08	17° \mathbb{Z} 49'57	1°05'46

Attention, astronomical year style is used: The year -11556 in astronomical counting style is the year 11557 BCE in historical counting style.

max. Earth dist.	-11556 Apr 01 j 23:34	17° ♁ 46'16	6.23354 AU	min. Earth dist.	-11550 Mar 29 j 01:38	13° ♁ 30'01	4.17450 AU
morning rise	-11556 Apr 15 j 16:06	20° ♁ 50'54		direct	-11550 May 28 j 04:33	8° ♁ 36'10	
	-11556 May 28 j 23:45	0° ♁		evening set	-11550 Sep 27 j 23:03	26° ♁ 57'17	
retrograde	-11556 Aug 15 j 21:53	8° ♁ 43'55					
opposition	-11556 Oct 14 j 04:27	3° ♁ 48'03	-0°59'51	conjunction	-11550 Oct 10 j 19:34	29° ♁ 56'44	0°46'57
min. Earth dist.	-11556 Oct 14 j 13:31	3° ♁ 45'02	4.26762 AU	minimum elong	-11550 Oct 10 j 19:38	29° ♁ 56'46	0°47'31
	-11556 Nov 15 j 20:01	30° ♁		max. Earth dist.	-11550 Oct 11 j 07:45	0° ♁ 03'50	6.13932 AU
direct	-11556 Dec 14 j 12:06	28° ♁ 43'55			-11550 Oct 11 j 01:11	0° ♁	
	-11555 Jan 12 j 13:24	0° ♁		morning rise	-11550 Oct 23 j 19:30	2° ♁ 58'01	
	-11555 Apr 12 j 06:00	15° ♁			-11550 Dec 19 j 14:52	15° ♁	
evening set	-11555 Apr 22 j 14:27	17° ♁ 16'34		retrograde	-11549 Mar 03 j 09:54	22° ♁ 28'11	
				opposition	-11549 May 03 j 11:04	17° ♁ 26'09	0°25'26
conjunction	-11555 May 05 j 20:21	20° ♁ 13'49	-0°11'57	min. Earth dist.	-11549 May 02 j 20:40	17° ♁ 30'54	4.10970 AU
minimum elong	-11555 May 05 j 20:23	20° ♁ 13'50	0°12'24		-11549 May 22 j 19:15	15° ♁	
behind sun begin	-11555 May 05 j 15:05	20° ♁ 10'53		direct	-11549 Jul 01 j 07:30	12° ♁ 32'33	
behind sun end	-11555 May 06 j 01:41	20° ♁ 16'47			-11549 Aug 09 j 09:14	15° ♁	
max. Earth dist.	-11555 May 04 j 22:37	20° ♁ 01'41	6.29595 AU	desc. node	-11549 Aug 20 j 14:44	16° ♁ 30'25	
morning rise	-11555 May 18 j 22:57	23° ♁ 09'19			-11549 Oct 27 j 04:47	0° ♁	
	-11555 Jun 19 j 22:17	0° ♁		evening set	-11549 Nov 01 j 09:06	1° ♁ 12'02	
asc. node	-11555 Jul 27 j 23:39	6° ♁ 41'58					
retrograde	-11555 Sep 16 j 18:40	10° ♁ 35'14		conjunction	-11549 Nov 14 j 16:11	4° ♁ 18'23	-0°13'25
opposition	-11555 Nov 15 j 15:08	5° ♁ 42'15	0°23'23	minimum elong	-11549 Nov 14 j 16:10	4° ♁ 18'22	0°13'06
min. Earth dist.	-11555 Nov 16 j 08:55	5° ♁ 36'29	4.31689 AU	behind sun begin	-11549 Nov 14 j 11:17	4° ♁ 15'32	
direct	-11554 Jan 16 j 20:36	0° ♁ 39'44		behind sun end	-11549 Nov 14 j 21:03	4° ♁ 21'13	
evening set	-11554 May 25 j 00:38	18° ♁ 54'58		max. Earth dist.	-11549 Nov 15 j 18:17	4° ♁ 33'39	6.08774 AU
				morning rise	-11549 Nov 28 j 02:46	7° ♁ 26'40	
conjunction	-11554 Jun 06 j 21:23	21° ♁ 47'01	0°44'02	retrograde	-11548 Apr 07 j 13:42	27° ♁ 17'26	
minimum elong	-11554 Jun 06 j 21:19	21° ♁ 46'59	0°43'54	opposition	-11548 Jun 06 j 19:00	22° ♁ 12'55	-1°05'44
max. Earth dist.	-11554 Jun 05 j 17:59	21° ♁ 31'43	6.32833 AU	min. Earth dist.	-11548 Jun 06 j 00:07	22° ♁ 19'18	4.07613 AU
morning rise	-11554 Jun 19 j 14:51	24° ♁ 37'29		direct	-11548 Aug 04 j 01:54	17° ♁ 16'49	
	-11554 Jul 14 j 10:50	0° ♁			-11548 Nov 08 j 19:05	0° ♁	
retrograde	-11554 Oct 18 j 14:36	11° ♁ 58'41		evening set	-11548 Dec 06 j 12:19	6° ♁ 15'23	
opposition	-11554 Dec 18 j 05:53	7° ♁ 06'54	1°38'40				
min. Earth dist.	-11554 Dec 19 j 01:16	7° ♁ 00'43	4.33097 AU	conjunction	-11548 Dec 20 j 02:37	9° ♁ 25'18	-1°09'41
direct	-11553 Feb 18 j 16:36	2° ♁ 07'11		minimum elong	-11548 Dec 20 j 02:30	9° ♁ 25'14	1°09'44
evening set	-11553 Jun 25 j 12:20	20° ♁ 12'13		max. Earth dist.	-11548 Dec 21 j 08:56	9° ♁ 42'59	6.07458 AU
max. Earth dist.	-11553 Jul 06 j 22:02	22° ♁ 45'47	6.32194 AU	morning rise	-11547 Jan 02 j 19:29	12° ♁ 36'32	
					-11547 Apr 04 j 07:24	0° ♁	
conjunction	-11553 Jul 08 j 00:24	23° ♁ 00'38	1°26'45	retrograde	-11547 May 13 j 05:08	2° ♁ 22'09	
minimum elong	-11553 Jul 08 j 00:19	23° ♁ 00'35	1°26'58		-11547 Jun 20 j 17:53	30° ♁	
morning rise	-11553 Jul 20 j 10:36	25° ♁ 48'09		opposition	-11547 Jul 11 j 16:24	27° ♁ 17'22	-2°13'29
	-11553 Aug 08 j 13:06	0° ♁		min. Earth dist.	-11547 Jul 10 j 22:15	27° ♁ 23'34	4.08596 AU
retrograde	-11553 Nov 20 j 04:52	13° ♁ 26'24		direct	-11547 Sep 08 j 00:13	22° ♁ 17'53	
opposition	-11552 Jan 20 j 10:18	8° ♁ 34'01	2°25'20		-11547 Nov 19 j 18:18	0° ♁	
min. Earth dist.	-11552 Jan 21 j 03:28	8° ♁ 28'35	4.30562 AU	evening set	-11546 Jan 12 j 13:47	11° ♁ 27'47	
direct	-11552 Mar 22 j 13:12	3° ♁ 37'24					
	-11552 Jun 25 j 00:47	15° ♁		conjunction	-11546 Jan 26 j 06:33	14° ♁ 37'12	-1°40'39
evening set	-11552 Jul 25 j 16:20	21° ♁ 40'23		minimum elong	-11546 Jan 26 j 06:30	14° ♁ 37'10	1°41'04
max. Earth dist.	-11552 Aug 06 j 06:39	24° ♁ 18'25	6.27853 AU	max. Earth dist.	-11546 Jan 27 j 04:55	14° ♁ 50'07	6.10508 AU
					-11546 Jan 27 j 22:03	15° ♁	
conjunction	-11552 Aug 07 j 00:35	24° ♁ 28'38	1°44'15	morning rise	-11546 Feb 09 j 00:06	17° ♁ 46'52	
minimum elong	-11552 Aug 07 j 00:34	24° ♁ 28'37	1°44'45		-11546 Apr 08 j 04:01	0° ♁	
morning rise	-11552 Aug 19 j 08:47	27° ♁ 16'57		retrograde	-11546 Jun 16 j 19:49	7° ♁ 01'47	
	-11552 Aug 31 j 11:52	0° ♁		opposition	-11546 Aug 14 j 19:32	1° ♁ 59'05	-2°32'35
retrograde	-11552 Dec 22 j 19:09	15° ♁ 28'51		min. Earth dist.	-11546 Aug 14 j 09:42	2° ♁ 02'27	4.13485 AU
opposition	-11551 Feb 22 j 10:02	10° ♁ 34'01	2°29'12		-11546 Aug 29 j 17:55	30° ♁	
min. Earth dist.	-11551 Feb 22 j 17:27	10° ♁ 31'40	4.24770 AU	direct	-11546 Oct 12 j 22:56	26° ♁ 56'32	
direct	-11551 Apr 24 j 13:33	5° ♁ 40'00			-11546 Nov 26 j 10:24	0° ♁	
evening set	-11551 Aug 26 j 05:51	23° ♁ 48'30		evening set	-11545 Feb 18 j 06:17	16° ♁ 03'16	
conjunction	-11551 Sep 07 j 17:23	26° ♁ 40'51	1°30'17	conjunction	-11545 Mar 03 j 22:24	19° ♁ 09'40	-1°35'32
minimum elong	-11551 Sep 07 j 17:27	26° ♁ 40'53	1°30'56	minimum elong	-11545 Mar 03 j 22:28	19° ♁ 09'42	1°36'10
max. Earth dist.	-11551 Sep 07 j 14:35	26° ♁ 39'14	6.21087 AU	max. Earth dist.	-11545 Mar 04 j 06:49	19° ♁ 14'27	6.16786 AU
morning rise	-11551 Sep 20 j 06:36	29° ♁ 34'15		morning rise	-11545 Mar 17 j 12:59	22° ♁ 15'13	
	-11551 Sep 22 j 03:39	0° ♁			-11545 Apr 22 j 05:11	0° ♁	
retrograde	-11550 Jan 26 j 16:57	18° ♁ 27'23		retrograde	-11545 Jul 20 j 03:57	10° ♁ 45'28	
opposition	-11550 Mar 29 j 04:40	13° ♁ 29'02	1°45'51	opposition	-11545 Sep 17 j 02:46	5° ♁ 46'23	-1°59'07

Attention, astronomical year style is used: The year -11545 in astronomical counting style is the year 11546 BCE in historical counting style.

min. Earth dist.	-11545 Sep 17 j 02:56	5° Z 46'19	4.20528 AU	conjunction	-11539 Sep 12 j 06:19	1° Z 23'15	1°25'47
direct	-11545 Nov 16 j 09:27	0° Z 42'14		minimum elong	-11539 Sep 12 j 06:24	1° Z 23'18	1°26'26
evening set	-11544 Mar 24 j 14:31	19° Z 33'11		max. Earth dist.	-11539 Sep 12 j 04:42	1° Z 22'19	6.20382 AU
				morning rise	-11539 Sep 24 j 20:50	4° Z 17'30	
conjunction	-11544 Apr 07 j 02:37	22° Z 35'07	-0°58'26	retrograde	-11538 Jan 31 j 13:24	23° Z 15'06	
minimum elong	-11544 Apr 07 j 02:42	22° Z 35'10	0°59'03	opposition	-11538 Apr 03 j 01:55	18° Z 16'13	1°36'22
max. Earth dist.	-11544 Apr 06 j 16:23	22° Z 29'22	6.24095 AU	min. Earth dist.	-11538 Apr 02 j 20:37	18° Z 17'56	4.16715 AU
morning rise	-11544 Apr 20 j 12:00	25° Z 35'32		direct	-11538 Jun 01 j 21:08	13° Z 23'22	
	-11544 May 10 j 14:01	0° \approx			-11538 Sep 24 j 23:12	0° Ω	
retrograde	-11544 Aug 20 j 12:06	13° \approx 24'32		evening set	-11538 Oct 02 j 15:08	1° Ω 45'55	
opposition	-11544 Oct 18 j 19:20	8° \approx 29'09	-0°48'27				
min. Earth dist.	-11544 Oct 19 j 06:28	8° \approx 25'28	4.27380 AU	conjunction	-11538 Oct 15 j 13:10	4° Ω 46'18	0°39'09
direct	-11544 Dec 19 j 07:21	3° \approx 25'09		minimum elong	-11538 Oct 15 j 13:14	4° Ω 46'21	0°39'43
	-11543 Mar 25 j 20:21	15° \approx		max. Earth dist.	-11538 Oct 16 j 03:37	4° Ω 54'44	6.13240 AU
evening set	-11543 Apr 27 j 07:08	21° \approx 55'57		morning rise	-11538 Oct 28 j 14:32	7° Ω 48'35	
					-11538 Nov 29 j 19:40	15° Ω	
conjunction	-11543 May 10 j 12:03	24° \approx 52'35	-0°03'47	retrograde	-11537 Mar 08 j 10:52	27° Ω 22'20	
minimum elong	-11543 May 10 j 12:04	24° \approx 52'35	0°04'11	opposition	-11537 May 08 j 08:50	22° Ω 19'53	0°12'41
behind sun begin	-11543 May 10 j 04:04	24° \approx 48'09		min. Earth dist.	-11537 May 07 j 18:41	22° Ω 24'34	4.10356 AU
behind sun end	-11543 May 10 j 20:03	24° \approx 57'02		desc. node	-11537 Jul 01 j 12:52	17° Ω 28'11	
max. Earth dist.	-11543 May 09 j 14:36	24° \approx 40'36	6.30067 AU	direct	-11537 Jul 06 j 03:57	17° Ω 26'00	
morning rise	-11543 May 23 j 13:17	27° \approx 47'23			-11537 Oct 10 j 04:28	0° P	
	-11543 Jun 02 j 14:00	0° X		evening set	-11537 Nov 06 j 06:50	6° P 08'05	
asc. node	-11543 Jun 05 j 10:08	0° X 37'04					
retrograde	-11543 Sep 21 j 06:45	15° X 11'51		conjunction	-11537 Nov 19 j 15:08	9° P 15'11	-0°21'57
opposition	-11543 Nov 20 j 06:24	10° X 19'11	0°35'08	minimum elong	-11537 Nov 19 j 15:06	9° P 15'10	0°21'42
min. Earth dist.	-11543 Nov 20 j 23:38	10° X 13'37	4.32003 AU	max. Earth dist.	-11537 Nov 20 j 17:40	9° P 30'42	6.08298 AU
direct	-11542 Jan 21 j 12:27	5° X 17'06		morning rise	-11537 Dec 03 j 03:01	12° P 24'12	
evening set	-11542 May 29 j 14:03	23° X 30'47			-11536 Mar 05 j 03:02	0° Z	
max. Earth dist.	-11542 Jun 10 j 05:12	26° X 06'28	6.32970 AU	retrograde	-11536 Apr 12 j 13:15	2° Z 16'17	
					-11536 May 20 j 15:29	30° R P	
conjunction	-11542 Jun 11 j 09:17	26° X 22'10	0°51'15	opposition	-11536 Jun 11 j 16:02	27° P 11'37	-1°17'14
minimum elong	-11542 Jun 11 j 09:12	26° X 22'07	0°51'10	min. Earth dist.	-11536 Jun 10 j 20:36	27° P 18'12	4.07345 AU
morning rise	-11542 Jun 24 j 01:38	29° X 12'04		direct	-11536 Aug 08 j 20:51	22° P 15'06	
	-11542 Jun 27 j 16:06	0° Y			-11536 Oct 20 j 06:58	0° Z	
retrograde	-11542 Oct 23 j 06:12	16° Y 34'21		evening set	-11536 Dec 11 j 15:15	11° Z 16'36	
opposition	-11542 Dec 22 j 22:46	11° Y 42'37	1°47'26				
min. Earth dist.	-11542 Dec 23 j 18:40	11° Y 36'17	4.33064 AU	conjunction	-11536 Dec 25 j 06:08	14° Z 26'46	-1°15'51
direct	-11541 Feb 23 j 10:10	6° Y 43'21		minimum elong	-11536 Dec 25 j 06:01	14° Z 26'42	1°15'58
evening set	-11541 Jun 29 j 23:14	24° Y 47'10		max. Earth dist.	-11536 Dec 26 j 11:02	14° Z 43'37	6.07405 AU
max. Earth dist.	-11541 Jul 11 j 09:47	27° Y 21'21	6.31976 AU	morning rise	-11535 Jan 07 j 23:27	17° Z 38'09	
					-11535 Mar 07 j 06:03	0° M	
conjunction	-11541 Jul 12 j 10:29	27° Y 35'16	1°30'58	retrograde	-11535 May 18 j 03:12	7° M 22'02	
minimum elong	-11541 Jul 12 j 10:24	27° Y 35'13	1°31'14	opposition	-11535 Jul 16 j 12:05	2° M 17'23	-2°19'21
	-11541 Jul 23 j 03:41	0° Z		min. Earth dist.	-11535 Jul 15 j 19:25	2° M 23'06	4.08777 AU
morning rise	-11541 Jul 24 j 19:56	0° Z 22'33			-11535 Aug 02 j 21:43	30° R Z	
	-11541 Oct 10 j 05:59	15° Z		direct	-11535 Sep 12 j 21:58	27° Z 17'25	
retrograde	-11541 Nov 24 j 20:36	18° Z 03'55			-11535 Oct 24 j 01:21	0° M	
	-11540 Jan 10 j 12:38	15° R Z			-11534 Jan 11 j 06:24	15° M	
opposition	-11540 Jan 25 j 04:58	13° Z 11'15	2°28'38	evening set	-11534 Jan 17 j 18:20	16° M 28'58	
min. Earth dist.	-11540 Jan 25 j 19:53	13° Z 06'32	4.30193 AU				
direct	-11540 Mar 27 j 04:22	8° Z 15'06		conjunction	-11534 Jan 31 j 11:25	19° M 38'18	-1°42'06
	-11540 Jun 05 j 09:16	15° Z		minimum elong	-11534 Jan 31 j 11:23	19° M 38'17	1°42'33
evening set	-11540 Jul 30 j 02:40	26° Z 17'21		max. Earth dist.	-11534 Feb 01 j 09:31	19° M 51'02	6.10916 AU
				morning rise	-11534 Feb 14 j 04:42	22° M 47'40	
conjunction	-11540 Aug 11 j 10:50	29° Z 05'45	1°44'11		-11534 Mar 18 j 18:59	0° Z	
minimum elong	-11540 Aug 11 j 10:50	29° Z 05'45	1°44'43	retrograde	-11534 Jun 21 j 15:09	11° Z 58'01	
max. Earth dist.	-11540 Aug 10 j 19:14	28° Z 56'50	6.27345 AU	opposition	-11534 Aug 19 j 13:32	6° Z 55'46	-2°30'48
	-11540 Aug 15 j 09:59	0° I		min. Earth dist.	-11534 Aug 19 j 04:33	6° Z 58'50	4.14095 AU
morning rise	-11540 Aug 23 j 19:11	1° I 54'21		direct	-11534 Oct 17 j 19:24	1° Z 52'57	
retrograde	-11540 Dec 27 j 16:04	20° I 10'36		evening set	-11533 Feb 23 j 08:35	20° Z 59'03	
opposition	-11539 Feb 27 j 06:30	15° I 15'21	2°25'47				
min. Earth dist.	-11539 Feb 27 j 13:27	15° I 13'08	4.24136 AU	conjunction	-11533 Mar 09 j 00:16	24° Z 05'00	-1°31'54
direct	-11539 Apr 29 j 07:39	10° I 21'34		minimum elong	-11533 Mar 09 j 00:21	24° Z 05'03	1°32'32
evening set	-11539 Aug 30 j 17:55	28° I 30'12		max. Earth dist.	-11533 Mar 09 j 05:12	24° Z 07'48	6.17550 AU
	-11539 Sep 06 j 06:04	0° Z		morning rise	-11533 Mar 22 j 14:31	27° Z 10'03	
					-11533 Apr 04 j 06:29	0° Z	

Attention, astronomical year style is used: The year -11533 in astronomical counting style is the year 11534 BCE in historical counting style.

retrograde	-11533 Jul 24 j 19:55	15° ♁ 34'46		direct	-11527 May 03 j 23:37	15° ♁ 03'37	
opposition	-11533 Sep 21 j 19:13	10° ♁ 36'09	-1°50'46		-11527 Aug 21 j 00:58	0° ♁	
min. Earth dist.	-11533 Sep 21 j 21:01	10° ♁ 35'33	4.21366 AU	evening set	-11527 Sep 04 j 07:12	3° ♁ 14'03	
direct	-11533 Nov 21 j 06:53	5° ♁ 31'52					
evening set	-11532 Mar 29 j 11:56	24° ♁ 20'27		conjunction	-11527 Sep 16 j 20:41	6° ♁ 08'04	1°20'42
				minimum elong	-11527 Sep 16 j 20:47	6° ♁ 08'07	1°21'20
conjunction	-11532 Apr 11 j 23:24	27° ♁ 21'46	-0°51'17	max. Earth dist.	-11527 Sep 16 j 21:02	6° ♁ 08'16	6.19228 AU
minimum elong	-11532 Apr 11 j 23:29	27° ♁ 21'48	0°51'53	morning rise	-11527 Sep 29 j 12:31	9° ♁ 03'24	
max. Earth dist.	-11532 Apr 11 j 12:59	27° ♁ 15'55	6.24973 AU	retrograde	-11526 Feb 05 j 15:12	28° ♁ 07'17	
	-11532 Apr 23 j 17:20	0° ♁		opposition	-11526 Apr 08 j 01:23	23° ♁ 07'52	1°26'06
morning rise	-11532 Apr 25 j 07:40	0° ♁ 21'24		min. Earth dist.	-11526 Apr 07 j 19:26	23° ♁ 09'48	4.15528 AU
	-11532 Jul 11 j 08:22	15° ♁		direct	-11526 Jun 06 j 17:36	18° ♁ 14'58	
retrograde	-11532 Aug 25 j 01:09	18° ♁ 05'46			-11526 Sep 07 j 16:25	0° ♁	
	-11532 Oct 09 j 06:46	15° ♁		evening set	-11526 Oct 07 j 10:20	6° ♁ 40'42	
opposition	-11532 Oct 23 j 10:26	13° ♁ 10'49	-0°36'42				
min. Earth dist.	-11532 Oct 23 j 21:59	13° ♁ 07'01	4.28203 AU	conjunction	-11526 Oct 20 j 09:56	9° ♁ 42'17	0°30'56
direct	-11532 Dec 24 j 01:15	8° ♁ 06'59		minimum elong	-11526 Oct 20 j 10:00	9° ♁ 42'19	0°31'27
	-11531 Mar 05 j 17:56	15° ♁		max. Earth dist.	-11526 Oct 21 j 02:15	9° ♁ 51'48	6.12145 AU
asc. node	-11531 Apr 13 j 19:58	22° ♁ 37'36		morning rise	-11526 Nov 02 j 13:01	12° ♁ 45'47	
evening set	-11531 May 01 j 23:26	26° ♁ 34'48			-11526 Nov 12 j 06:25	15° ♁	
max. Earth dist.	-11531 May 14 j 03:11	29° ♁ 17'19	6.30759 AU		-11525 Feb 01 j 14:35	0° ♁	
				retrograde	-11525 Mar 13 j 14:21	2° ♁ 24'20	
conjunction	-11531 May 15 j 02:56	29° ♁ 30'35	0°04'34		-11525 Apr 22 j 10:39	30° ♁	
minimum elong	-11531 May 15 j 02:55	29° ♁ 30'35	0°04'12	desc. node	-11525 May 11 j 04:47	27° ♁ 39'05	
behind sun begin	-11531 May 14 j 18:56	29° ♁ 26'09		opposition	-11525 May 13 j 09:36	27° ♁ 21'33	-0°00'31
behind sun end	-11531 May 15 j 10:53	29° ♁ 35'00		min. Earth dist.	-11525 May 12 j 17:52	27° ♁ 26'46	4.09461 AU
	-11531 May 17 j 07:34	0° ♁		direct	-11525 Jul 11 j 00:41	22° ♁ 27'26	
morning rise	-11531 May 28 j 03:03	2° ♁ 24'36			-11525 Sep 20 j 08:56	0° ♁	
retrograde	-11531 Sep 25 j 19:54	19° ♁ 46'57		evening set	-11525 Nov 11 j 09:17	11° ♁ 13'26	
opposition	-11531 Nov 24 j 21:30	14° ♁ 54'26	0°46'38				
min. Earth dist.	-11531 Nov 25 j 15:52	14° ♁ 48'31	4.32499 AU	conjunction	-11525 Nov 24 j 18:47	14° ♁ 21'21	-0°30'37
direct	-11530 Jan 26 j 05:47	9° ♁ 52'36		minimum elong	-11525 Nov 24 j 18:43	14° ♁ 21'19	0°30'24
evening set	-11530 Jun 03 j 01:48	28° ♁ 03'51		max. Earth dist.	-11525 Nov 25 j 21:47	14° ♁ 37'10	6.07680 AU
	-11530 Jun 11 j 18:19	0° ♁		morning rise	-11525 Dec 08 j 07:50	17° ♁ 31'07	
					-11524 Feb 05 j 00:37	0° ♁	
conjunction	-11530 Jun 15 j 19:52	0° ♁ 54'34	0°58'08	retrograde	-11524 Apr 17 j 16:53	7° ♁ 24'47	
minimum elong	-11530 Jun 15 j 19:47	0° ♁ 54'31	0°58'06	opposition	-11524 Jun 16 j 16:47	2° ♁ 19'59	-1°28'34
max. Earth dist.	-11530 Jun 14 j 17:06	0° ♁ 39'35	6.33204 AU	min. Earth dist.	-11524 Jun 15 j 21:18	2° ♁ 26'37	4.07088 AU
morning rise	-11530 Jun 28 j 10:52	3° ♁ 43'49			-11524 Jul 04 j 15:27	30° ♁	
retrograde	-11530 Oct 27 j 18:46	21° ♁ 07'04		direct	-11524 Aug 13 j 21:17	27° ♁ 23'04	
opposition	-11530 Dec 27 j 14:44	16° ♁ 15'17	1°55'32		-11524 Sep 22 j 23:35	0° ♁	
min. Earth dist.	-11530 Dec 28 j 09:40	16° ♁ 09'16	4.33021 AU	evening set	-11524 Dec 16 j 22:41	16° ♁ 27'32	
direct	-11529 Feb 28 j 00:50	11° ♁ 16'27					
evening set	-11529 Jul 04 j 08:59	29° ♁ 19'04		conjunction	-11524 Dec 30 j 14:17	19° ♁ 37'55	-1°21'40
	-11529 Jul 07 j 10:02	0° ♁		minimum elong	-11524 Dec 30 j 14:11	19° ♁ 37'51	1°21'51
				max. Earth dist.	-11524 Dec 31 j 20:44	19° ♁ 55'38	6.07551 AU
conjunction	-11529 Jul 16 j 19:15	2° ♁ 06'52	1°34'38	morning rise	-11523 Jan 13 j 07:49	22° ♁ 49'17	
minimum elong	-11529 Jul 16 j 19:10	2° ♁ 06'49	1°34'56		-11523 Feb 14 j 11:12	0° ♁	
max. Earth dist.	-11529 Jul 15 j 18:23	1° ♁ 52'50	6.31627 AU	retrograde	-11523 May 23 j 04:44	12° ♁ 30'05	
morning rise	-11529 Jul 29 j 04:13	4° ♁ 54'02		opposition	-11523 Jul 21 j 11:06	7° ♁ 25'44	-2°24'21
	-11529 Sep 15 j 16:04	15° ♁		min. Earth dist.	-11523 Jul 20 j 18:39	7° ♁ 31'22	4.09369 AU
retrograde	-11529 Nov 29 j 14:10	22° ♁ 39'12		direct	-11523 Sep 17 j 22:27	2° ♁ 25'27	
opposition	-11528 Jan 29 j 23:07	17° ♁ 46'14	2°31'04		-11523 Dec 24 j 07:20	15° ♁	
min. Earth dist.	-11528 Jan 30 j 14:08	17° ♁ 41'29	4.29554 AU	evening set	-11522 Jan 23 j 02:03	21° ♁ 36'53	
	-11528 Feb 22 j 05:50	15° ♁					
direct	-11528 Mar 31 j 20:51	12° ♁ 50'25		conjunction	-11522 Feb 05 j 18:55	24° ♁ 45'43	-1°42'51
	-11528 May 09 j 01:02	15° ♁		minimum elong	-11522 Feb 05 j 18:54	24° ♁ 45'42	1°43'21
	-11528 Jul 30 j 14:56	0° ♁		max. Earth dist.	-11522 Feb 06 j 14:42	24° ♁ 57'06	6.11906 AU
evening set	-11528 Aug 03 j 12:41	0° ♁ 52'59		morning rise	-11522 Feb 19 j 12:02	27° ♁ 54'30	
					-11522 Feb 28 j 17:19	0° ♁	
conjunction	-11528 Aug 15 j 21:07	3° ♁ 41'48	1°43'31	retrograde	-11522 Jun 26 j 10:09	16° ♁ 57'47	
minimum elong	-11528 Aug 15 j 21:08	3° ♁ 41'49	1°44'05	opposition	-11522 Aug 24 j 08:59	11° ♁ 56'00	-2°27'53
max. Earth dist.	-11528 Aug 15 j 07:08	3° ♁ 33'49	6.26464 AU	min. Earth dist.	-11522 Aug 24 j 00:45	11° ♁ 58'48	4.15411 AU
morning rise	-11528 Aug 28 j 05:53	6° ♁ 30'57		direct	-11522 Oct 22 j 19:35	6° ♁ 52'54	
retrograde	-11527 Jan 01 j 11:32	24° ♁ 52'52		evening set	-11521 Feb 28 j 11:07	25° ♁ 55'31	
opposition	-11527 Mar 04 j 03:13	19° ♁ 57'08	2°21'31				
min. Earth dist.	-11527 Mar 04 j 08:00	19° ♁ 55'37	4.23073 AU	conjunction	-11521 Mar 14 j 02:24	29° ♁ 00'39	-1°27'40

Attention, astronomical year style is used: The year -11521 in astronomical counting style is the year 11522 BCE in historical counting style.

minimum elong	-11521 Mar 14 j 02:29	29° ♂ 00'42	1°28'18	opposition	-11515 Mar 08 j 21:29	24° ♂ 33'55	2°16'28
max. Earth dist.	-11521 Mar 14 j 06:47	29° ♂ 03'08	6.19114 AU	min. Earth dist.	-11515 Mar 09 j 01:36	24° ♂ 32'36	4.21465 AU
	-11521 Mar 18 j 11:02	0° ♂		direct	-11515 May 08 j 14:07	19° ♂ 40'31	
morning rise	-11521 Mar 27 j 15:43	2° ♂ 04'41			-11515 Aug 03 j 20:17	0° ♂	
retrograde	-11521 Jul 29 j 10:32	20° ♂ 21'01		evening set	-11515 Sep 08 j 19:09	7° ♂ 54'52	
opposition	-11521 Sep 26 j 10:30	15° ♂ 22'59	-1°41'45				
min. Earth dist.	-11521 Sep 26 j 13:37	15° ♂ 21'56	4.23015 AU	conjunction	-11515 Sep 21 j 10:04	10° ♂ 50'11	1°15'07
direct	-11521 Nov 26 j 02:55	10° ♂ 18'41		minimum elong	-11515 Sep 21 j 10:10	10° ♂ 50'14	1°15'45
evening set	-11520 Apr 03 j 06:46	29° ♂ 02'00		max. Earth dist.	-11515 Sep 21 j 13:00	10° ♂ 51'53	6.17547 AU
	-11520 Apr 07 j 14:48	0° ♂		morning rise	-11515 Oct 04 j 03:24	13° ♂ 46'57	
					-11515 Dec 27 j 15:17	0° ♂	
conjunction	-11520 Apr 16 j 17:08	2° ♂ 02'14	-0°43'59	retrograde	-11514 Feb 10 j 15:44	2° ♂ 58'40	
minimum elong	-11520 Apr 16 j 17:12	2° ♂ 02'17	0°44'33		-11514 Mar 28 j 00:18	30° ♂	
max. Earth dist.	-11520 Apr 16 j 03:47	1° ♂ 54'46	6.26572 AU	opposition	-11514 Apr 12 j 23:44	27° ♂ 58'46	1°15'17
morning rise	-11520 Apr 30 j 00:24	5° ♂ 00'48		min. Earth dist.	-11514 Apr 12 j 15:52	28° ♂ 01'20	4.13918 AU
	-11520 Jun 17 j 01:59	15° ♂		direct	-11514 Jun 11 j 10:44	23° ♂ 05'50	
retrograde	-11520 Aug 29 j 10:17	22° ♂ 38'37			-11514 Aug 18 j 20:42	0° ♂	
opposition	-11520 Oct 27 j 22:26	17° ♂ 44'04	-0°25'07	evening set	-11514 Oct 12 j 06:13	11° ♂ 36'25	
min. Earth dist.	-11520 Oct 28 j 11:22	17° ♂ 39'49	4.29619 AU				
	-11520 Nov 18 j 23:56	15° ♂		conjunction	-11514 Oct 25 j 07:22	14° ♂ 39'19	0°22'28
direct	-11520 Dec 28 j 16:59	12° ♂ 40'22		minimum elong	-11514 Oct 25 j 07:25	14° ♂ 39'21	0°22'57
	-11519 Feb 06 j 17:28	15° ♂		max. Earth dist.	-11514 Oct 26 j 01:21	14° ♂ 49'50	6.10758 AU
asc. node	-11519 Feb 22 j 11:04	17° ♂ 00'47			-11514 Oct 26 j 18:43	15° ♂	
	-11519 May 01 j 15:53	0° ♂		morning rise	-11514 Nov 07 j 12:14	17° ♂ 44'13	
evening set	-11519 May 06 j 10:54	1° ♂ 03'23			-11513 Jan 04 j 05:09	0° ♂	
				retrograde	-11513 Mar 18 j 18:18	7° ♂ 28'20	
conjunction	-11519 May 19 j 13:06	3° ♂ 58'09	0°12'24	desc. node	-11513 Mar 20 j 13:00	7° ♂ 28'02	
minimum elong	-11519 May 19 j 13:05	3° ♂ 58'09	0°12'05	opposition	-11513 May 18 j 10:40	2° ♂ 25'02	-0°13'48
behind sun begin	-11519 May 19 j 07:36	3° ♂ 55'06		min. Earth dist.	-11513 May 17 j 17:30	2° ♂ 30'46	4.08420 AU
behind sun end	-11519 May 19 j 18:35	4° ♂ 01'12			-11513 Jun 06 j 10:13	30° ♂	
max. Earth dist.	-11519 May 18 j 12:59	3° ♂ 44'42	6.31884 AU	direct	-11513 Jul 15 j 23:01	27° ♂ 30'35	
morning rise	-11519 Jun 01 j 11:44	6° ♂ 51'08			-11513 Aug 24 j 02:08	0° ♂	
retrograde	-11519 Sep 30 j 03:13	24° ♂ 10'32		evening set	-11513 Nov 16 j 12:44	16° ♂ 20'50	
opposition	-11519 Nov 29 j 07:47	19° ♂ 18'17	0°57'20				
min. Earth dist.	-11519 Nov 30 j 02:58	19° ♂ 12'07	4.33252 AU	conjunction	-11513 Nov 29 j 23:35	19° ♂ 29'33	-0°39'06
direct	-11518 Jan 30 j 17:40	14° ♂ 16'49		minimum elong	-11513 Nov 29 j 23:31	19° ♂ 29'30	0°38'56
	-11518 May 27 j 08:28	0° ♂		max. Earth dist.	-11513 Dec 01 j 05:50	19° ♂ 47'15	6.07084 AU
evening set	-11518 Jun 07 j 08:34	2° ♂ 25'08		morning rise	-11513 Dec 13 j 13:36	22° ♂ 39'59	
max. Earth dist.	-11518 Jun 18 j 19:57	4° ♂ 58'46	6.33497 AU		-11512 Jan 15 j 06:21	0° ♂	
				retrograde	-11512 Apr 22 j 21:09	12° ♂ 34'17	
conjunction	-11518 Jun 20 j 01:13	5° ♂ 15'08	1°04'21	opposition	-11512 Jun 21 j 17:44	7° ♂ 29'20	-1°39'14
minimum elong	-11518 Jun 20 j 01:07	5° ♂ 15'05	1°04'22	min. Earth dist.	-11512 Jun 20 j 21:54	7° ♂ 36'05	4.07006 AU
morning rise	-11518 Jul 02 j 15:16	8° ♂ 03'49		direct	-11512 Aug 18 j 21:42	2° ♂ 31'56	
retrograde	-11518 Nov 01 j 04:15	25° ♂ 28'16		evening set	-11512 Dec 22 j 06:40	21° ♂ 38'18	
opposition	-11517 Jan 01 j 01:43	20° ♂ 36'25	2°02'35				
min. Earth dist.	-11517 Jan 01 j 21:38	20° ♂ 30'06	4.32853 AU	conjunction	-11511 Jan 04 j 22:31	24° ♂ 48'36	-1°26'51
direct	-11517 Mar 04 j 11:27	15° ♂ 37'55		minimum elong	-11511 Jan 04 j 22:25	24° ♂ 48'33	1°27'05
	-11517 Jun 21 j 22:39	0° ♂		max. Earth dist.	-11511 Jan 06 j 03:35	25° ♂ 05'30	6.07929 AU
evening set	-11517 Jul 08 j 13:50	3° ♂ 40'10		morning rise	-11511 Jan 18 j 16:23	27° ♂ 59'49	
					-11511 Jan 27 j 10:05	0° ♂	
conjunction	-11517 Jul 20 j 23:39	6° ♂ 27'56	1°37'35		-11511 Apr 17 j 11:11	15° ♂	
minimum elong	-11517 Jul 20 j 23:35	6° ♂ 27'54	1°37'55	retrograde	-11511 May 28 j 03:18	17° ♂ 36'03	
max. Earth dist.	-11517 Jul 19 j 23:50	6° ♂ 14'28	6.30996 AU		-11511 Jul 07 j 12:44	15° ♂	
morning rise	-11517 Aug 02 j 08:04	9° ♂ 15'09		opposition	-11511 Jul 26 j 09:03	12° ♂ 31'50	-2°28'13
	-11517 Aug 28 j 15:56	15° ♂		min. Earth dist.	-11511 Jul 25 j 16:46	12° ♂ 37'25	4.10151 AU
retrograde	-11517 Dec 04 j 02:19	27° ♂ 05'15		direct	-11511 Sep 22 j 23:14	7° ♂ 30'59	
opposition	-11516 Feb 03 j 13:00	22° ♂ 12'03	2°32'32		-11511 Dec 03 j 23:04	15° ♂	
min. Earth dist.	-11516 Feb 04 j 03:10	22° ♂ 07'33	4.28518 AU	evening set	-11510 Jan 28 j 08:35	26° ♂ 41'24	
direct	-11516 Apr 05 j 07:20	17° ♂ 16'36					
	-11516 Jul 14 j 15:16	0° ♂		conjunction	-11510 Feb 11 j 01:28	29° ♂ 49'43	-1°42'51
evening set	-11516 Aug 07 j 19:26	5° ♂ 21'08		minimum elong	-11510 Feb 11 j 01:29	29° ♂ 49'44	1°43'23
					-11510 Feb 11 j 19:23	0° ♂	
conjunction	-11516 Aug 20 j 04:05	8° ♂ 10'37	1°42'14	max. Earth dist.	-11510 Feb 11 j 20:23	0° ♂ 00'35	6.12992 AU
minimum elong	-11516 Aug 20 j 04:07	8° ♂ 10'38	1°42'49	morning rise	-11510 Feb 24 j 18:03	2° ♂ 57'47	
max. Earth dist.	-11516 Aug 19 j 14:14	8° ♂ 02'40	6.25098 AU	retrograde	-11510 Jul 01 j 05:46	21° ♂ 53'43	
morning rise	-11516 Sep 01 j 13:36	11° ♂ 00'37		opposition	-11510 Aug 29 j 03:20	16° ♂ 52'25	-2°24'00
retrograde	-11515 Jan 06 j 07:02	29° ♂ 30'06		min. Earth dist.	-11510 Aug 28 j 21:08	16° ♂ 54'32	4.16654 AU

Attention, astronomical year style is used: The year -11510 in astronomical counting style is the year 11511 BCE in historical counting style.

direct	-11510 Oct 27 j 18:34	11° ♁ 49'01		minimum elong	-11504 Aug 24 j 16:45	12° ♁ 52'53	1°40'52
	-11509 Mar 01 j 21:44	0° ♁		max. Earth dist.	-11504 Aug 24 j 06:25	12° ♁ 46'57	6.24004 AU
evening set	-11509 Mar 05 j 12:14	0° ♁ 48'28		morning rise	-11504 Sep 06 j 02:49	15° ♁ 43'38	
					-11504 Nov 17 j 06:05	0° ♁	
conjunction	-11509 Mar 19 j 02:59	3° ♁ 52'53	-1°22'52	retrograde	-11503 Jan 11 j 06:29	4° ♁ 19'24	
minimum elong	-11509 Mar 19 j 03:04	3° ♁ 52'56	1°23'31		-11503 Mar 09 j 00:10	30° ♁	
max. Earth dist.	-11509 Mar 19 j 04:21	3° ♁ 53'39	6.20397 AU	opposition	-11503 Mar 13 j 20:39	29° ♁ 22'49	2°10'16
morning rise	-11509 Apr 01 j 15:39	6° ♁ 56'06		min. Earth dist.	-11503 Mar 13 j 22:49	29° ♁ 22'07	4.20375 AU
retrograde	-11509 Aug 02 j 23:18	25° ♁ 05'31		direct	-11503 May 13 j 09:00	24° ♁ 29'42	
opposition	-11509 Oct 01 j 01:40	20° ♁ 07'59	-1°32'10		-11503 Jul 13 j 14:45	0° ♁	
min. Earth dist.	-11509 Oct 01 j 05:55	20° ♁ 06'34	4.24214 AU	evening set	-11503 Sep 13 j 11:22	12° ♁ 45'56	
direct	-11509 Nov 30 j 21:48	15° ♁ 03'38					
	-11508 Mar 22 j 01:06	0° ♁		conjunction	-11503 Sep 26 j 03:25	15° ♁ 42'15	1°08'54
evening set	-11508 Apr 08 j 01:38	3° ♁ 43'30		minimum elong	-11503 Sep 26 j 03:30	15° ♁ 42'18	1°09'32
				max. Earth dist.	-11503 Sep 26 j 08:09	15° ♁ 45'00	6.16576 AU
conjunction	-11508 Apr 21 j 11:00	6° ♁ 42'55	-0°36'23	morning rise	-11503 Oct 08 j 22:22	18° ♁ 40'08	
minimum elong	-11508 Apr 21 j 11:04	6° ♁ 42'57	0°36'54		-11503 Dec 01 j 03:53	0° ♁	
max. Earth dist.	-11508 Apr 20 j 19:41	6° ♁ 34'21	6.27615 AU	retrograde	-11502 Feb 15 j 18:12	7° ♁ 56'56	
morning rise	-11508 May 04 j 17:07	9° ♁ 40'37		opposition	-11502 Apr 18 j 00:37	2° ♁ 56'28	1°03'43
	-11508 May 29 j 05:55	15° ♁		min. Earth dist.	-11502 Apr 17 j 14:32	2° ♁ 59'46	4.13141 AU
retrograde	-11508 Sep 02 j 22:28	27° ♁ 14'10			-11502 May 12 j 05:26	30° ♁	
opposition	-11508 Nov 01 j 12:05	22° ♁ 20'06	-0°13'15	direct	-11502 Jun 16 j 07:49	28° ♁ 03'27	
min. Earth dist.	-11508 Nov 02 j 02:47	22° ♁ 15'17	4.30413 AU		-11502 Jul 21 j 01:33	0° ♁	
direct	-11507 Jan 02 j 10:00	17° ♁ 16'41			-11502 Oct 10 j 05:54	15° ♁	
asc. node	-11507 Jan 02 j 08:10	17° ♁ 16'41		evening set	-11502 Oct 17 j 03:38	16° ♁ 35'53	
	-11507 Apr 14 j 21:52	0° ♁					
evening set	-11507 May 11 j 00:37	5° ♁ 37'04		conjunction	-11502 Oct 30 j 06:23	19° ♁ 39'41	0°13'49
max. Earth dist.	-11507 May 22 j 23:10	8° ♁ 16'26	6.32360 AU	minimum elong	-11502 Oct 30 j 06:24	19° ♁ 39'42	0°14'14
				behind sun begin	-11502 Oct 30 j 02:30	19° ♁ 37'25	
conjunction	-11507 May 24 j 01:29	8° ♁ 31'07	0°20'21	behind sun end	-11502 Oct 30 j 10:19	19° ♁ 41'59	
minimum elong	-11507 May 24 j 01:27	8° ♁ 31'06	0°20'05	max. Earth dist.	-11502 Oct 31 j 04:08	19° ♁ 52'24	6.10268 AU
morning rise	-11507 Jun 05 j 22:57	11° ♁ 23'25		morning rise	-11502 Nov 12 j 12:35	22° ♁ 45'25	
retrograde	-11507 Oct 04 j 14:52	28° ♁ 42'14			-11502 Dec 14 j 20:28	0° ♁	
opposition	-11507 Dec 03 j 22:00	23° ♁ 50'09	1°08'04	desc. node	-11501 Jan 27 j 18:53	8° ♁ 06'00	
min. Earth dist.	-11507 Dec 04 j 17:35	23° ♁ 43'51	4.33403 AU	retrograde	-11501 Mar 23 j 21:13	12° ♁ 31'20	
direct	-11506 Feb 04 j 08:22	18° ♁ 49'03		opposition	-11501 May 23 j 10:50	7° ♁ 27'42	-0°26'53
	-11506 May 10 j 07:08	0° ♁		min. Earth dist.	-11501 May 22 j 17:08	7° ♁ 33'38	4.08270 AU
evening set	-11506 Jun 11 j 19:07	6° ♁ 56'20		direct	-11501 Jul 20 j 21:18	2° ♁ 32'56	
max. Earth dist.	-11506 Jun 23 j 06:27	9° ♁ 30'05	6.33306 AU	evening set	-11501 Nov 21 j 15:09	21° ♁ 24'33	
conjunction	-11506 Jun 24 j 10:39	9° ♁ 45'53	1°10'28	conjunction	-11501 Dec 05 j 02:44	24° ♁ 33'31	-0°47'08
minimum elong	-11506 Jun 24 j 10:34	9° ♁ 45'50	1°10'32	minimum elong	-11501 Dec 05 j 02:39	24° ♁ 33'28	0°47'02
morning rise	-11506 Jul 06 j 23:32	12° ♁ 34'12		max. Earth dist.	-11501 Dec 06 j 08:12	24° ♁ 50'45	6.07254 AU
	-11506 Nov 01 j 17:40	0° ♁		morning rise	-11501 Dec 18 j 17:42	27° ♁ 44'11	
retrograde	-11506 Nov 05 j 18:38	0° ♁ 01'32			-11501 Dec 28 j 13:32	0° ♁	
	-11506 Nov 09 j 19:35	30° ♁		retrograde	-11500 Apr 27 j 19:20	17° ♁ 36'15	
opposition	-11505 Jan 05 j 18:18	25° ♁ 09'42	2°09'18	opposition	-11500 Jun 26 j 14:55	12° ♁ 31'14	-1°48'50
min. Earth dist.	-11505 Jan 06 j 13:56	25° ♁ 03'28	4.32351 AU	min. Earth dist.	-11500 Jun 25 j 18:39	12° ♁ 38'08	4.07494 AU
direct	-11505 Mar 09 j 02:49	20° ♁ 11'44		direct	-11500 Aug 23 j 19:36	7° ♁ 33'18	
	-11505 Jun 04 j 08:04	0° ♁		evening set	-11500 Dec 27 j 10:36	26° ♁ 39'55	
evening set	-11505 Jul 12 j 23:57	8° ♁ 14'21					
max. Earth dist.	-11505 Jul 24 j 08:59	10° ♁ 48'30	6.30207 AU	conjunction	-11499 Jan 10 j 02:51	29° ♁ 50'00	-1°31'13
				minimum elong	-11499 Jan 10 j 02:46	29° ♁ 49'57	1°31'30
conjunction	-11505 Jul 25 j 09:04	11° ♁ 02'09	1°40'07		-11499 Jan 10 j 20:06	0° ♁	
minimum elong	-11505 Jul 25 j 09:01	11° ♁ 02'07	1°40'30	max. Earth dist.	-11499 Jan 11 j 07:29	0° ♁ 06'36	6.08667 AU
morning rise	-11505 Aug 06 j 17:23	13° ♁ 49'35		morning rise	-11499 Jan 23 j 20:34	3° ♁ 00'46	
	-11505 Aug 11 j 23:00	15° ♁			-11499 Mar 21 j 08:54	15° ♁	
retrograde	-11505 Nov 04 j 16:59	0° ♁		retrograde	-11499 Jun 01 j 23:38	22° ♁ 31'39	
	-11504 Jan 12 j 09:04	30° ♁		opposition	-11499 Jul 31 j 02:51	17° ♁ 27'44	-2°30'51
opposition	-11504 Feb 08 j 08:55	26° ♁ 51'41	2°33'11	min. Earth dist.	-11499 Jul 30 j 12:45	17° ♁ 32'34	4.11061 AU
min. Earth dist.	-11504 Feb 08 j 21:49	26° ♁ 47'36	4.27521 AU		-11499 Aug 18 j 22:35	15° ♁	
direct	-11504 Apr 10 j 00:05	21° ♁ 56'38		direct	-11499 Sep 27 j 20:40	12° ♁ 26'27	
	-11504 Jun 25 j 21:39	0° ♁			-11499 Nov 07 j 00:38	15° ♁	
evening set	-11504 Aug 12 j 07:25	10° ♁ 02'41		evening set	-11498 Jan 26 j 09:30	0° ♁	
					-11498 Feb 02 j 10:23	1° ♁ 35'37	
conjunction	-11504 Aug 24 j 16:43	12° ♁ 52'52	1°40'16	conjunction	-11498 Feb 16 j 03:06	4° ♁ 43'27	-1°42'07

Attention, astronomical year style is used: The year -11498 in astronomical counting style is the year 11499 BCE in historical counting style.

minimum elong	-11498 Feb 16 j 03:07	4° ♂ 43'28	1°42'41			-11493 Oct 06 j 10:26	0° ♂	
max. Earth dist.	-11498 Feb 16 j 19:03	4° ♂ 52'35	6.13973 AU	retrograde		-11493 Dec 13 j 17:46	6° ♂ 27'43	
morning rise	-11498 Mar 01 j 19:18	7° ♂ 50'54		opposition		-11492 Feb 13 j 06:08	1° ♂ 33'51	2°32'49
retrograde	-11498 Jul 05 j 19:08	26° ♂ 40'24		min. Earth dist.		-11492 Feb 13 j 17:48	1° ♂ 30'10	4.26714 AU
opposition	-11498 Sep 02 j 17:44	21° ♂ 39'35	-2°19'18			-11492 Feb 25 j 19:16	30° ♂	
min. Earth dist.	-11498 Sep 02 j 12:34	21° ♂ 41'21	4.17621 AU	direct		-11492 Apr 14 j 18:37	26° ♂ 39'10	
direct	-11498 Nov 01 j 11:50	16° ♂ 35'55				-11492 Jun 01 j 10:11	0° ♂	
	-11497 Feb 13 j 00:29	0° ♂		evening set		-11492 Aug 16 j 20:07	14° ♂ 45'38	
evening set	-11497 Mar 10 j 09:40	5° ♂ 33'28						
				conjunction		-11492 Aug 29 j 05:49	17° ♂ 36'22	1°37'38
conjunction	-11497 Mar 23 j 23:51	8° ♂ 37'18	-1°17'40	minimum elong		-11492 Aug 29 j 05:53	17° ♂ 36'24	1°38'15
minimum elong	-11497 Mar 23 j 23:57	8° ♂ 37'21	1°18'20	max. Earth dist.		-11492 Aug 28 j 20:47	17° ♂ 31'10	6.23169 AU
max. Earth dist.	-11497 Mar 23 j 21:44	8° ♂ 36'06	6.21286 AU	morning rise		-11492 Sep 10 j 16:56	20° ♂ 27'54	
morning rise	-11497 Apr 06 j 11:50	11° ♂ 39'53				-11492 Oct 25 j 02:59	0° ♂	
retrograde	-11497 Aug 07 j 12:09	29° ♂ 44'12		retrograde		-11491 Jan 16 j 05:22	9° ♂ 08'48	
opposition	-11497 Oct 05 j 14:32	24° ♂ 47'12	-1°22'17	opposition		-11491 Mar 18 j 19:49	4° ♂ 11'37	2°03'10
min. Earth dist.	-11497 Oct 05 j 21:25	24° ♂ 44'54	4.24932 AU	min. Earth dist.		-11491 Mar 18 j 19:33	4° ♂ 11'42	4.19550 AU
direct	-11497 Dec 05 j 15:04	19° ♂ 42'52				-11491 Apr 27 j 07:35	30° ♂	
	-11496 Mar 04 j 06:52	0° ♂		direct		-11491 May 18 j 03:39	29° ♂ 18'35	
evening set	-11496 Apr 12 j 18:17	8° ♂ 20'56				-11491 Jun 07 j 22:54	0° ♂	
max. Earth dist.	-11496 Apr 25 j 09:41	11° ♂ 10'13	6.28118 AU	evening set		-11491 Sep 18 j 03:26	17° ♂ 35'48	
conjunction	-11496 Apr 26 j 02:49	11° ♂ 19'48	-0°28'41	conjunction		-11491 Sep 30 j 20:58	20° ♂ 33'02	1°02'13
minimum elong	-11496 Apr 26 j 02:52	11° ♂ 19'50	0°29'12	minimum elong		-11491 Sep 30 j 21:04	20° ♂ 33'05	1°02'50
morning rise	-11496 May 09 j 07:53	14° ♂ 16'54		max. Earth dist.		-11491 Oct 01 j 05:34	20° ♂ 38'02	6.15843 AU
	-11496 May 12 j 13:35	15° ♂		morning rise		-11491 Oct 13 j 17:15	23° ♂ 31'53	
	-11496 Aug 04 j 13:47	0° ♂				-11491 Nov 11 j 15:10	0° ♂	
retrograde	-11496 Sep 07 j 08:46	1° ♂ 48'15		retrograde		-11490 Feb 20 j 20:19	12° ♂ 52'38	
	-11496 Oct 11 j 08:11	30° ♂		opposition		-11490 Apr 23 j 00:23	7° ♂ 51'42	0°51'44
opposition	-11496 Nov 06 j 01:15	26° ♂ 54'31	-0°01'27	min. Earth dist.		-11490 Apr 22 j 13:42	7° ♂ 55'12	4.12540 AU
min. Earth dist.	-11496 Nov 06 j 16:15	26° ♂ 49'37	4.30680 AU	direct		-11490 Jun 21 j 04:47	2° ♂ 58'34	
asc. node	-11496 Nov 12 j 19:35	26° ♂ 01'48				-11490 Sep 23 j 00:17	15° ♂	
direct	-11495 Jan 07 j 00:37	21° ♂ 51'20		evening set		-11490 Oct 22 j 00:53	21° ♂ 32'40	
	-11495 Mar 27 j 02:49	0° ♂						
evening set	-11495 May 15 j 13:52	10° ♂ 10'45		conjunction		-11490 Nov 04 j 04:52	24° ♂ 37'14	0°05'07
max. Earth dist.	-11495 May 27 j 10:31	12° ♂ 49'13	6.32382 AU	minimum elong		-11490 Nov 04 j 04:52	24° ♂ 37'14	0°05'32
				behind sun begin		-11490 Nov 03 j 20:59	24° ♂ 32'38	
conjunction	-11495 May 28 j 13:25	13° ♂ 04'14	0°28'10	behind sun end		-11490 Nov 04 j 12:46	24° ♂ 41'50	
minimum elong	-11495 May 28 j 13:22	13° ♂ 04'12	0°27'56	max. Earth dist.		-11490 Nov 05 j 02:47	24° ♂ 50'03	6.09852 AU
morning rise	-11495 Jun 10 j 09:39	15° ♂ 56'01		morning rise		-11490 Nov 17 j 12:40	27° ♂ 43'49	
	-11495 Aug 23 j 14:31	0° ♂				-11490 Nov 27 j 09:03	0° ♂	
retrograde	-11495 Oct 09 j 04:25	3° ♂ 15'46		desc. node		-11490 Dec 07 j 00:13	2° ♂ 10'27	
	-11495 Nov 25 j 19:00	30° ♂		retrograde		-11489 Mar 28 j 21:11	17° ♂ 31'17	
opposition	-11495 Dec 08 j 13:16	28° ♂ 23'51	1°18'24	opposition		-11489 May 28 j 09:38	12° ♂ 27'20	-0°39'40
min. Earth dist.	-11495 Dec 09 j 09:35	28° ♂ 17'21	4.33193 AU	min. Earth dist.		-11489 May 27 j 14:36	12° ♂ 33'44	4.08086 AU
direct	-11494 Feb 09 j 00:51	23° ♂ 23'12		direct		-11489 Jul 25 j 17:56	7° ♂ 32'12	
	-11494 Apr 20 j 09:15	0° ♂		evening set		-11489 Nov 26 j 16:59	26° ♂ 25'44	
evening set	-11494 Jun 16 j 06:37	11° ♂ 30'15						
				conjunction		-11489 Dec 10 j 05:36	29° ♂ 35'03	-0°54'47
conjunction	-11494 Jun 28 j 21:00	14° ♂ 19'27	1°16'11	minimum elong		-11489 Dec 10 j 05:31	29° ♂ 35'00	0°54'44
minimum elong	-11494 Jun 28 j 20:55	14° ♂ 19'24	1°16'17	max. Earth dist.		-11489 Dec 11 j 12:21	29° ♂ 53'01	6.07319 AU
max. Earth dist.	-11494 Jun 27 j 16:45	14° ♂ 03'37	6.32865 AU			-11489 Dec 12 j 00:17	0° ♂	
morning rise	-11494 Jul 11 j 09:02	17° ♂ 07'32		morning rise		-11489 Dec 23 j 21:06	2° ♂ 45'55	
	-11494 Sep 14 j 18:29	0° ♂		retrograde		-11488 May 02 j 19:53	22° ♂ 36'22	
retrograde	-11494 Nov 10 j 10:17	4° ♂ 38'23		opposition		-11488 Jul 01 j 11:46	17° ♂ 31'23	-1°57'37
	-11493 Jan 08 j 17:19	30° ♂		min. Earth dist.		-11488 Jun 30 j 17:01	17° ♂ 37'48	4.07812 AU
opposition	-11493 Jan 10 j 12:23	29° ♂ 46'21	2°15'18	direct		-11488 Aug 28 j 18:07	12° ♂ 33'00	
min. Earth dist.	-11493 Jan 11 j 06:29	29° ♂ 40'36	4.31744 AU			-11488 Dec 25 j 07:00	0° ♂	
direct	-11493 Mar 13 j 18:36	24° ♂ 48'47		evening set		-11487 Jan 01 j 14:47	1° ♂ 40'43	
	-11493 May 13 j 21:41	0° ♂						
evening set	-11493 Jul 17 j 11:10	12° ♂ 51'42		conjunction		-11487 Jan 15 j 07:15	4° ♂ 50'38	-1°34'56
	-11493 Jul 26 j 22:11	15° ♂		minimum elong		-11487 Jan 15 j 07:11	4° ♂ 50'35	1°35'16
				max. Earth dist.		-11487 Jan 16 j 10:09	5° ♂ 06'12	6.09193 AU
conjunction	-11493 Jul 29 j 19:57	15° ♂ 39'35	1°42'03	morning rise		-11487 Jan 29 j 01:03	8° ♂ 01'08	
minimum elong	-11493 Jul 29 j 19:55	15° ♂ 39'34	1°42'29			-11487 Mar 01 j 10:06	15° ♂	
max. Earth dist.	-11493 Jul 28 j 23:11	15° ♂ 27'48	6.29477 AU	retrograde		-11487 Jun 06 j 18:11	27° ♂ 27'22	
morning rise	-11493 Aug 11 j 03:57	18° ♂ 27'12		opposition		-11487 Aug 04 j 20:39	22° ♂ 23'50	-2°32'28

Attention, astronomical year style is used: The year -11487 in astronomical counting style is the year 11488 BCE in historical counting style.

min. Earth dist.	-11487 Aug 04 j 07:00	22° \mathbb{M} 28'30	4.11764 AU		-11481 Feb 27 j 00:22	30° \mathbb{R} Υ	
direct	-11487 Oct 02 j 16:00	17° \mathbb{M} 22'09		direct	-11481 Mar 18 j 12:09	29° \mathbb{Y} 25'45	
	-11486 Jan 09 j 00:19	0° \mathbb{X}			-11481 Apr 06 j 22:06	0° \mathbb{B}	
evening set	-11486 Feb 07 j 12:58	6° \mathbb{X} 30'58			-11481 Jul 10 j 20:29	15° \mathbb{B}	
				evening set	-11481 Jul 21 j 21:23	17° \mathbb{B} 27'50	
conjunction	-11486 Feb 21 j 05:29	9° \mathbb{X} 38'23	-1°40'41	max. Earth dist.	-11481 Aug 02 j 10:03	20° \mathbb{B} 04'31	6.28999 AU
minimum elong	-11486 Feb 21 j 05:31	9° \mathbb{X} 38'24	1°41'15				
max. Earth dist.	-11486 Feb 21 j 18:01	9° \mathbb{X} 45'33	6.14794 AU	conjunction	-11481 Aug 03 j 05:47	20° \mathbb{B} 15'43	1°43'20
morning rise	-11486 Mar 06 j 21:20	12° \mathbb{X} 45'18		minimum elong	-11481 Aug 03 j 05:46	20° \mathbb{B} 15'42	1°43'48
	-11486 Jun 10 j 06:00	0° \mathbb{B}		morning rise	-11481 Aug 15 j 13:49	23° \mathbb{B} 03'31	
retrograde	-11486 Jul 10 j 11:40	1° \mathbb{B} 29'04			-11481 Sep 16 j 12:15	0° \mathbb{H}	
	-11486 Aug 09 j 11:31	30° \mathbb{R} \mathbb{X}		retrograde	-11481 Dec 18 j 11:39	11° \mathbb{H} 08'10	
opposition	-11486 Sep 07 j 09:25	26° \mathbb{X} 28'47	-2°13'38	opposition	-11480 Feb 18 j 02:00	6° \mathbb{H} 13'51	2°31'25
min. Earth dist.	-11486 Sep 07 j 06:51	26° \mathbb{X} 29'39	4.18461 AU	min. Earth dist.	-11480 Feb 18 j 11:15	6° \mathbb{H} 10'54	4.26115 AU
direct	-11486 Nov 06 j 08:14	21° \mathbb{X} 24'55		direct	-11480 Apr 19 j 10:17	1° \mathbb{H} 19'26	
	-11485 Jan 24 j 23:32	0° \mathbb{B}		evening set	-11480 Aug 21 j 07:25	19° \mathbb{H} 25'47	
evening set	-11485 Mar 15 j 07:44	10° \mathbb{B} 20'47					
				conjunction	-11480 Sep 02 j 17:53	22° \mathbb{H} 17'05	1°34'23
conjunction	-11485 Mar 28 j 21:33	13° \mathbb{B} 24'09	-1°11'54	minimum elong	-11480 Sep 02 j 17:57	22° \mathbb{H} 17'07	1°35'01
minimum elong	-11485 Mar 28 j 21:39	13° \mathbb{B} 24'12	1°12'32	max. Earth dist.	-11480 Sep 02 j 12:12	22° \mathbb{H} 13'48	6.22501 AU
max. Earth dist.	-11485 Mar 28 j 17:55	13° \mathbb{B} 22'06	6.22093 AU	morning rise	-11480 Sep 15 j 05:44	25° \mathbb{H} 09'16	
morning rise	-11485 Apr 11 j 08:43	16° \mathbb{B} 26'07			-11480 Oct 06 j 21:29	0° \mathbb{B}	
	-11485 Jun 19 j 00:34	0° \mathbb{B}		retrograde	-11479 Jan 21 j 04:08	13° \mathbb{B} 54'41	
retrograde	-11485 Aug 12 j 00:14	4° \mathbb{B} 25'44		opposition	-11479 Mar 23 j 17:09	8° \mathbb{B} 56'59	1°55'17
	-11485 Oct 06 j 08:25	30° \mathbb{R} \mathbb{B}		min. Earth dist.	-11479 Mar 23 j 16:19	8° \mathbb{B} 57'15	4.18832 AU
opposition	-11485 Oct 10 j 04:50	29° \mathbb{B} 29'17	-1°11'45	direct	-11479 May 22 j 22:13	4° \mathbb{B} 04'01	
min. Earth dist.	-11485 Oct 10 j 12:11	29° \mathbb{B} 26'50	4.25634 AU	evening set	-11479 Sep 22 j 18:07	22° \mathbb{B} 22'04	
direct	-11485 Dec 10 j 07:45	24° \mathbb{B} 25'04					
	-11484 Feb 11 j 20:29	0° \mathbb{B}		conjunction	-11479 Oct 05 j 12:52	25° \mathbb{B} 20'11	0°55'12
evening set	-11484 Apr 17 j 11:54	13° \mathbb{B} 01'14		minimum elong	-11479 Oct 05 j 12:57	25° \mathbb{B} 20'14	0°55'48
	-11484 Apr 26 j 08:57	15° \mathbb{B}		max. Earth dist.	-11479 Oct 05 j 22:01	25° \mathbb{B} 25'31	6.15141 AU
				morning rise	-11479 Oct 18 j 10:51	28° \mathbb{B} 20'04	
conjunction	-11484 Apr 30 j 19:13	15° \mathbb{B} 59'27	-0°20'43		-11479 Oct 25 j 16:49	0° \mathbb{H}	
minimum elong	-11484 Apr 30 j 19:16	15° \mathbb{B} 59'29	0°21'12		-11478 Jan 13 j 18:23	15° \mathbb{H}	
max. Earth dist.	-11484 Apr 29 j 23:27	15° \mathbb{B} 48'24	6.28682 AU	retrograde	-11478 Feb 25 j 18:11	17° \mathbb{H} 44'38	
morning rise	-11484 May 13 j 23:17	18° \mathbb{B} 55'55			-11478 Apr 09 j 21:34	15° \mathbb{R} \mathbb{H}	
	-11484 Jul 07 j 06:30	0° \mathbb{H}		opposition	-11478 Apr 27 j 22:03	12° \mathbb{H} 43'10	0°39'32
retrograde	-11484 Sep 11 j 22:18	6° \mathbb{H} 25'05		min. Earth dist.	-11478 Apr 27 j 09:25	12° \mathbb{H} 47'20	4.11899 AU
asc. node	-11484 Sep 22 j 09:10	6° \mathbb{H} 14'21		direct	-11478 Jun 25 j 22:25	7° \mathbb{H} 49'49	
opposition	-11484 Nov 10 j 15:53	1° \mathbb{H} 31'45	0°10'30		-11478 Sep 03 j 13:04	15° \mathbb{H}	
min. Earth dist.	-11484 Nov 11 j 08:34	1° \mathbb{H} 26'19	4.31067 AU	desc. node	-11478 Oct 17 j 01:12	24° \mathbb{H} 10'04	
	-11484 Nov 22 j 14:12	30° \mathbb{R} \mathbb{B}		evening set	-11478 Oct 26 j 20:43	26° \mathbb{H} 26'02	
direct	-11483 Jan 11 j 18:42	26° \mathbb{B} 28'54					
	-11483 Mar 02 j 16:16	0° \mathbb{H}		conjunction	-11478 Nov 09 j 02:12	29° \mathbb{H} 31'26	-0°03'38
evening set	-11483 May 20 j 03:34	14° \mathbb{H} 46'45		minimum elong	-11478 Nov 09 j 02:10	29° \mathbb{H} 31'25	0°03'16
max. Earth dist.	-11483 May 31 j 23:19	17° \mathbb{H} 24'45	6.32574 AU	behind sun begin	-11478 Nov 08 j 17:59	29° \mathbb{H} 26'39	
				behind sun end	-11478 Nov 09 j 10:21	29° \mathbb{H} 36'11	
conjunction	-11483 Jun 02 j 01:55	17° \mathbb{H} 39'37	0°35'52	max. Earth dist.	-11478 Nov 10 j 02:11	29° \mathbb{H} 45'28	6.09334 AU
minimum elong	-11483 Jun 02 j 01:52	17° \mathbb{H} 39'35	0°35'42		-11478 Nov 11 j 03:00	0° \mathbb{H}	
morning rise	-11483 Jun 14 j 20:51	20° \mathbb{H} 30'48		morning rise	-11478 Nov 22 j 11:09	2° \mathbb{H} 38'46	
	-11483 Jul 30 j 12:51	0° \mathbb{Y}		retrograde	-11477 Apr 02 j 22:21	22° \mathbb{H} 28'12	
retrograde	-11483 Oct 13 j 16:48	7° \mathbb{Y} 51'05		opposition	-11477 Jun 02 j 06:52	17° \mathbb{H} 23'59	-0°52'01
opposition	-11483 Dec 13 j 05:11	2° \mathbb{Y} 59'15	1°28'20	min. Earth dist.	-11477 Jun 01 j 12:41	17° \mathbb{H} 30'06	4.07737 AU
min. Earth dist.	-11483 Dec 14 j 00:20	2° \mathbb{Y} 53'08	4.33212 AU	direct	-11477 Jul 30 j 15:00	12° \mathbb{H} 28'24	
	-11482 Jan 07 j 07:49	30° \mathbb{R} \mathbb{H}			-11477 Nov 25 j 15:53	0° \mathbb{B}	
direct	-11482 Feb 13 j 15:59	27° \mathbb{H} 59'04		evening set	-11477 Dec 01 j 18:23	1° \mathbb{B} 24'43	
	-11482 Mar 22 j 23:58	0° \mathbb{Y}					
evening set	-11482 Jun 20 j 17:48	16° \mathbb{Y} 04'57		conjunction	-11477 Dec 15 j 07:45	4° \mathbb{B} 34'26	-1°01'57
max. Earth dist.	-11482 Jul 02 j 04:09	18° \mathbb{Y} 38'36	6.32707 AU	minimum elong	-11477 Dec 15 j 07:39	4° \mathbb{B} 34'22	1°01'57
				max. Earth dist.	-11477 Dec 16 j 13:50	4° \mathbb{B} 51'59	6.07160 AU
conjunction	-11482 Jul 03 j 07:02	18° \mathbb{Y} 53'42	1°21'26	morning rise	-11477 Dec 29 j 00:01	7° \mathbb{B} 45'36	
minimum elong	-11482 Jul 03 j 06:56	18° \mathbb{Y} 53'39	1°21'36	retrograde	-11476 May 07 j 17:35	27° \mathbb{B} 35'00	
morning rise	-11482 Jul 15 j 18:09	21° \mathbb{Y} 41'26		opposition	-11476 Jul 06 j 07:26	22° \mathbb{B} 30'05	-2°05'28
	-11482 Aug 23 j 23:11	0° \mathbb{B}		min. Earth dist.	-11476 Jul 05 j 12:32	22° \mathbb{B} 36'32	4.07896 AU
retrograde	-11482 Nov 15 j 03:03	9° \mathbb{B} 15'02		direct	-11476 Sep 02 j 13:19	17° \mathbb{B} 31'13	
opposition	-11481 Jan 15 j 06:33	4° \mathbb{B} 22'52	2°20'24		-11476 Dec 07 j 20:57	0° \mathbb{M}	
min. Earth dist.	-11481 Jan 16 j 00:30	4° \mathbb{B} 17'11	4.31423 AU	evening set	-11475 Jan 06 j 18:55	6° \mathbb{M} 41'00	

Attention, astronomical year style is used: The year -11475 in astronomical counting style is the year 11476 BCE in historical counting style.

conjunction	-11475 Jan 20 j 11:37	9°♌50'52	-1°37'54	minimum elong	-11470 Jul 07 j 15:58	23°♑24'34	1°26'24
minimum elong	-11475 Jan 20 j 11:33	9°♌50'49	1°38'17	max. Earth dist.	-11470 Jul 06 j 14:06	23°♑10'01	6.32529 AU
max. Earth dist.	-11475 Jan 21 j 12:12	10°♌05'06	6.09496 AU	morning rise	-11470 Jul 20 j 02:17	26°♑12'02	
morning rise	-11475 Feb 03 j 05:25	13°♌01'10			-11470 Aug 06 j 08:46	0°♏	
	-11475 Feb 11 j 21:43	15°♌		retrograde	-11470 Nov 19 j 17:07	13°♏48'36	
	-11475 May 03 j 18:00	0°♐		opposition	-11469 Jan 19 j 23:28	8°♏56'13	2°24'40
retrograde	-11475 Jun 11 j 14:12	2°♐23'34		min. Earth dist.	-11469 Jan 20 j 15:49	8°♏51'02	4.30968 AU
	-11475 Jul 20 j 02:41	30°♏		direct	-11469 Mar 23 j 01:53	3°♏59'31	
opposition	-11475 Aug 09 j 14:50	27°♌20'21	-2°32'58		-11469 Jun 23 j 21:12	15°♏	
min. Earth dist.	-11475 Aug 09 j 03:14	27°♌24'20	4.12263 AU	evening set	-11469 Jul 26 j 06:54	22°♏01'32	
direct	-11475 Oct 07 j 13:54	22°♌18'16					
	-11475 Dec 20 j 04:42	0°♐		conjunction	-11469 Aug 07 j 15:07	24°♏49'36	1°44'01
evening set	-11474 Feb 12 j 15:43	11°♐27'10		minimum elong	-11469 Aug 07 j 15:06	24°♏49'35	1°44'30
				max. Earth dist.	-11469 Aug 06 j 20:54	24°♏39'14	6.28285 AU
conjunction	-11474 Feb 26 j 08:15	14°♐34'17	-1°38'28	morning rise	-11469 Aug 19 j 23:11	27°♏37'42	
minimum elong	-11474 Feb 26 j 08:18	14°♐34'19	1°39'05		-11469 Aug 30 j 13:08	0°♐	
max. Earth dist.	-11474 Feb 26 j 20:02	14°♐41'01	6.15463 AU	retrograde	-11469 Dec 23 j 08:06	15°♐47'34	
morning rise	-11474 Mar 11 j 23:33	17°♐40'43		opposition	-11468 Feb 22 j 21:45	10°♐52'52	2°29'10
	-11474 May 10 j 15:45	0°♑		min. Earth dist.	-11468 Feb 23 j 06:54	10°♐49'58	4.25171 AU
retrograde	-11474 Jul 15 j 03:29	6°♑19'02		direct	-11468 Apr 24 j 03:20	5°♐58'45	
opposition	-11474 Sep 12 j 01:41	1°♑19'16	-2°07'00	evening set	-11468 Aug 25 j 19:04	24°♐06'24	
min. Earth dist.	-11474 Sep 11 j 23:40	1°♑19'57	4.19243 AU				
	-11474 Sep 21 j 22:53	30°♑		conjunction	-11468 Sep 07 j 06:22	26°♐58'32	1°30'34
direct	-11474 Nov 11 j 03:15	26°♑15'17		minimum elong	-11468 Sep 07 j 06:26	26°♐58'34	1°31'12
	-11474 Dec 31 j 13:11	0°♑		max. Earth dist.	-11468 Sep 07 j 01:39	26°♐55'49	6.21411 AU
evening set	-11473 Mar 20 j 06:36	15°♑09'23		morning rise	-11468 Sep 19 j 19:28	29°♐51'42	
					-11468 Sep 20 j 09:57	0°♑	
conjunction	-11473 Apr 02 j 19:37	18°♑12'08	-1°05'35	retrograde	-11467 Jan 26 j 01:55	18°♑43'18	
minimum elong	-11473 Apr 02 j 19:43	18°♑12'11	1°06'12	opposition	-11467 Mar 28 j 15:19	13°♑45'04	1°46'38
max. Earth dist.	-11473 Apr 02 j 12:39	18°♑08'12	6.22940 AU	min. Earth dist.	-11467 Mar 28 j 12:08	13°♑46'05	4.17667 AU
morning rise	-11473 Apr 16 j 06:08	21°♑13'27		direct	-11467 May 27 j 15:04	8°♑52'11	
	-11473 May 27 j 14:00	0°♒		evening set	-11467 Sep 27 j 11:00	27°♑13'01	
retrograde	-11473 Aug 16 j 14:32	9°♒08'07			-11467 Oct 09 j 10:12	0°♒	
opposition	-11473 Oct 14 j 19:55	4°♒12'07	-1°00'40				
min. Earth dist.	-11473 Oct 15 j 05:12	4°♒09'02	4.26458 AU	conjunction	-11467 Oct 10 j 07:19	0°♒12'19	0°47'43
	-11473 Nov 21 j 12:16	30°♒		minimum elong	-11467 Oct 10 j 07:24	0°♒12'21	0°48'17
direct	-11473 Dec 15 j 03:48	29°♑07'57		max. Earth dist.	-11467 Oct 10 j 19:06	0°♒19'10	6.14016 AU
	-11472 Jan 08 j 00:07	0°♒		morning rise	-11467 Oct 23 j 06:49	3°♒13'24	
	-11472 Apr 09 j 23:20	15°♒			-11467 Dec 17 j 16:14	15°♒	
evening set	-11472 Apr 22 j 05:21	17°♒41'25		retrograde	-11466 Mar 02 j 21:46	22°♒43'22	
				opposition	-11466 May 02 j 22:07	17°♒41'29	0°26'49
conjunction	-11472 May 05 j 11:43	20°♒38'54	-0°12'35	min. Earth dist.	-11466 May 02 j 09:22	17°♒45'41	4.10886 AU
minimum elong	-11472 May 05 j 11:44	20°♒38'54	0°13'01		-11466 May 24 j 13:17	15°♒	
behind sun begin	-11472 May 05 j 06:52	20°♒36'12		direct	-11466 Jun 30 j 20:23	12°♒47'54	
behind sun end	-11472 May 05 j 16:37	20°♒41'37			-11466 Aug 06 j 16:28	15°♒	
max. Earth dist.	-11472 May 04 j 16:13	20°♒28'00	6.29430 AU	desc. node	-11466 Aug 26 j 06:17	17°♒42'53	
morning rise	-11472 May 18 j 14:25	23°♒34'32			-11466 Oct 25 j 12:52	0°♓	
	-11472 Jun 17 j 11:59	0°♓		evening set	-11466 Oct 31 j 20:35	1°♓27'55	
asc. node	-11472 Aug 01 j 04:25	7°♓45'03					
retrograde	-11472 Sep 16 j 09:29	11°♓00'50		conjunction	-11466 Nov 14 j 03:25	4°♓34'18	-0°12'26
opposition	-11472 Nov 15 j 06:28	6°♓07'46	0°22'24	minimum elong	-11466 Nov 14 j 03:23	4°♓34'17	0°12'08
min. Earth dist.	-11472 Nov 15 j 22:51	6°♓02'27	4.31669 AU	behind sun begin	-11466 Nov 13 j 21:50	4°♓31'03	
direct	-11471 Jan 16 j 10:34	1°♓05'14		behind sun end	-11466 Nov 14 j 08:57	4°♓37'32	
evening set	-11471 May 24 j 16:29	19°♓20'32		max. Earth dist.	-11466 Nov 15 j 04:25	4°♓48'56	6.08536 AU
max. Earth dist.	-11471 Jun 05 j 09:24	21°♓57'01	6.32956 AU	morning rise	-11466 Nov 27 j 13:54	7°♓42'38	
				retrograde	-11465 Apr 08 j 01:42	27°♓34'42	
conjunction	-11471 Jun 06 j 13:17	22°♓12'35	0°43'21	min. Earth dist.	-11465 Jun 06 j 11:56	22°♓36'51	4.07254 AU
minimum elong	-11471 Jun 06 j 13:13	22°♓12'33	0°43'13	opposition	-11465 Jun 07 j 07:20	22°♓30'18	-1°04'23
morning rise	-11471 Jun 19 j 07:04	25°♓03'06		direct	-11465 Aug 04 j 12:45	17°♓34'23	
	-11471 Jul 12 j 02:17	0°♑			-11465 Nov 07 j 21:10	0°♑	
retrograde	-11471 Oct 18 j 06:40	12°♑23'28		evening set	-11465 Dec 07 j 00:18	6°♑34'11	
opposition	-11471 Dec 17 j 20:36	7°♑31'42	1°37'42				
min. Earth dist.	-11471 Dec 18 j 16:49	7°♑25'14	4.33337 AU	conjunction	-11465 Dec 20 j 14:27	9°♑44'17	-1°08'53
direct	-11470 Feb 18 j 08:42	2°♑31'52		minimum elong	-11465 Dec 20 j 14:20	9°♑44'13	1°08'56
evening set	-11470 Jun 25 j 03:45	20°♑36'15		max. Earth dist.	-11465 Dec 21 j 20:21	10°♑01'44	6.07030 AU
				morning rise	-11464 Jan 03 j 07:18	12°♑55'43	
conjunction	-11470 Jul 07 j 16:03	23°♑24'37	1°26'11		-11464 Mar 31 j 22:08	0°♒	

Attention, astronomical year style is used: The year -11464 in astronomical counting style is the year 11465 BCE in historical counting style.

retrograde	-11464 May 12 j 19:38	2° \mathbb{M} 43'42		direct	-11458 Feb 22 j 18:30	6° \mathbb{Y} 53'18	
	-11464 Jun 23 j 09:24	30° \mathbb{R} $\underline{\mathbb{A}}$		evening set	-11458 Jun 29 j 08:47	24° \mathbb{Y} 56'03	
opposition	-11464 Jul 11 j 06:54	27° $\underline{\mathbb{A}}$ 38'55	-2°12'39				
min. Earth dist.	-11464 Jul 10 j 12:48	27° $\underline{\mathbb{A}}$ 45'07	4.08161 AU	conjunction	-11458 Jul 11 j 20:03	27° \mathbb{Y} 44'03	1°30'14
direct	-11464 Sep 07 j 14:28	22° $\underline{\mathbb{A}}$ 39'38		minimum elong	-11458 Jul 11 j 19:58	27° \mathbb{Y} 44'01	1°30'30
	-11464 Nov 17 j 07:21	0° \mathbb{M}		max. Earth dist.	-11458 Jul 10 j 16:44	27° \mathbb{Y} 28'41	6.32291 AU
evening set	-11463 Jan 12 j 02:54	11° \mathbb{M} 50'39			-11458 Jul 21 j 21:50	0° \mathbb{B}	
				morning rise	-11458 Jul 24 j 05:44	0° \mathbb{B} 31'18	
conjunction	-11463 Jan 25 j 19:54	15° \mathbb{M} 00'19	-1°40'15		-11458 Oct 08 j 14:42	15° \mathbb{B}	
minimum elong	-11463 Jan 25 j 19:51	15° \mathbb{M} 00'17	1°40'40	retrograde	-11458 Nov 24 j 05:28	18° \mathbb{B} 11'23	
	-11463 Jan 25 j 19:21	15° \mathbb{M}			-11457 Jan 10 j 21:11	15° \mathbb{R} \mathbb{B}	
max. Earth dist.	-11463 Jan 26 j 21:11	15° \mathbb{M} 14'56	6.10165 AU	opposition	-11457 Jan 24 j 12:12	13° \mathbb{B} 18'47	2°27'56
morning rise	-11463 Feb 08 j 13:26	18° \mathbb{M} 10'11		min. Earth dist.	-11457 Jan 25 j 05:25	13° \mathbb{B} 13'20	4.30281 AU
	-11463 Apr 05 j 12:21	0° \mathbb{A}		direct	-11457 Mar 27 j 13:11	8° \mathbb{B} 22'24	
retrograde	-11463 Jun 16 j 11:40	7° \mathbb{A} 26'45			-11457 Jun 05 j 00:41	15° \mathbb{B}	
opposition	-11463 Aug 14 j 11:22	2° \mathbb{A} 24'01	-2°32'21	evening set	-11457 Jul 30 j 12:10	26° \mathbb{B} 25'17	
min. Earth dist.	-11463 Aug 14 j 00:03	2° \mathbb{A} 27'53	4.13311 AU				
	-11463 Sep 01 j 19:20	30° \mathbb{R} \mathbb{M}		conjunction	-11457 Aug 11 j 20:31	29° \mathbb{B} 13'47	1°44'03
direct	-11463 Oct 12 j 13:14	27° \mathbb{M} 21'40		minimum elong	-11457 Aug 11 j 20:30	29° \mathbb{B} 13'47	1°44'34
	-11463 Nov 22 j 16:55	0° \mathbb{A}		max. Earth dist.	-11457 Aug 11 j 03:05	29° \mathbb{B} 03'51	6.27200 AU
evening set	-11462 Feb 17 j 20:32	16° \mathbb{A} 28'18			-11457 Aug 15 j 05:33	0° \mathbb{I}	
				morning rise	-11457 Aug 24 j 04:51	2° \mathbb{I} 02'27	
conjunction	-11462 Mar 03 j 12:33	19° \mathbb{A} 34'41	-1°35'34	retrograde	-11457 Dec 27 j 23:16	20° \mathbb{I} 18'53	
minimum elong	-11462 Mar 03 j 12:37	19° \mathbb{A} 34'43	1°36'12	opposition	-11456 Feb 27 j 13:54	15° \mathbb{I} 23'47	2°26'05
max. Earth dist.	-11462 Mar 03 j 21:21	19° \mathbb{A} 39'42	6.16818 AU	min. Earth dist.	-11456 Feb 27 j 21:18	15° \mathbb{I} 21'26	4.23776 AU
morning rise	-11462 Mar 17 j 03:26	22° \mathbb{A} 40'19		direct	-11456 Apr 28 j 14:30	10° \mathbb{I} 29'55	
	-11462 Apr 19 j 18:47	0° \mathbb{B}		evening set	-11456 Aug 30 j 04:32	28° \mathbb{I} 40'44	
retrograde	-11462 Jul 19 j 19:19	11° \mathbb{B} 10'33			-11456 Sep 04 j 22:17	0° \mathbb{B}	
opposition	-11462 Sep 16 j 18:34	6° \mathbb{B} 11'17	-1°59'28				
min. Earth dist.	-11462 Sep 16 j 18:02	6° \mathbb{B} 11'28	4.20773 AU	conjunction	-11456 Sep 11 j 16:50	1° \mathbb{B} 33'57	1°26'14
direct	-11462 Nov 16 j 02:01	1° \mathbb{B} 07'08		minimum elong	-11456 Sep 11 j 16:55	1° \mathbb{B} 34'00	1°26'53
evening set	-11461 Mar 25 j 04:05	19° \mathbb{B} 56'26		max. Earth dist.	-11456 Sep 11 j 13:46	1° \mathbb{B} 32'11	6.19835 AU
				morning rise	-11456 Sep 24 j 07:10	4° \mathbb{B} 28'22	
conjunction	-11461 Apr 07 j 16:25	22° \mathbb{B} 58'13	-0°58'55	retrograde	-11455 Jan 31 j 01:09	23° \mathbb{B} 27'54	
minimum elong	-11461 Apr 07 j 16:30	22° \mathbb{B} 58'16	0°59'31	opposition	-11455 Apr 02 j 11:50	18° \mathbb{B} 29'10	1°37'24
max. Earth dist.	-11461 Apr 07 j 09:05	22° \mathbb{B} 54'06	6.24553 AU	min. Earth dist.	-11455 Apr 02 j 08:01	18° \mathbb{B} 30'24	4.16017 AU
morning rise	-11461 Apr 21 j 01:44	25° \mathbb{B} 58'26		direct	-11455 Jun 01 j 07:59	13° \mathbb{B} 36'17	
	-11461 May 09 j 09:43	0° \mathbb{A}			-11455 Sep 23 j 08:10	0° \mathbb{Q}	
retrograde	-11461 Aug 21 j 01:13	13° \mathbb{A} 45'45		evening set	-11455 Oct 02 j 03:24	2° \mathbb{Q} 01'47	
opposition	-11461 Oct 19 j 09:09	8° \mathbb{A} 50'15	-0°49'26				
min. Earth dist.	-11461 Oct 19 j 19:08	8° \mathbb{A} 46'57	4.27997 AU	conjunction	-11455 Oct 15 j 01:21	5° \mathbb{Q} 02'29	0°39'56
direct	-11461 Dec 19 j 20:48	3° \mathbb{A} 46'13		minimum elong	-11455 Oct 15 j 01:25	5° \mathbb{Q} 02'31	0°40'30
	-11460 Mar 23 j 18:18	15° \mathbb{A}		max. Earth dist.	-11455 Oct 15 j 15:18	5° \mathbb{Q} 10'38	6.12465 AU
evening set	-11460 Apr 26 j 19:23	22° \mathbb{A} 14'25		morning rise	-11455 Oct 28 j 02:40	8° \mathbb{Q} 05'03	
max. Earth dist.	-11460 May 09 j 01:43	24° \mathbb{A} 58'11	6.30768 AU		-11455 Nov 27 j 23:06	15° \mathbb{Q}	
				retrograde	-11454 Mar 08 j 00:16	27° \mathbb{Q} 41'41	
conjunction	-11460 May 10 j 00:17	25° \mathbb{A} 10'46	-0°04'39	opposition	-11454 May 07 j 21:55	22° \mathbb{Q} 39'22	0°13'54
minimum elong	-11460 May 10 j 00:17	25° \mathbb{A} 10'47	0°05'02	min. Earth dist.	-11454 May 07 j 07:01	22° \mathbb{Q} 44'18	4.09590 AU
behind sun begin	-11460 May 09 j 16:24	25° \mathbb{A} 06'24		direct	-11454 Jul 05 j 15:28	17° \mathbb{Q} 45'36	
behind sun end	-11460 May 10 j 08:11	25° \mathbb{A} 15'09		desc. node	-11454 Jul 06 j 04:05	17° \mathbb{Q} 45'38	
morning rise	-11460 May 23 j 01:50	28° \mathbb{A} 05'22			-11454 Oct 08 j 03:01	0° \mathbb{P}	
	-11460 May 31 j 17:58	0° \mathbb{A}		evening set	-11454 Nov 05 j 21:17	6° \mathbb{P} 30'25	
asc. node	-11460 Jun 11 j 02:40	2° \mathbb{A} 14'11					
retrograde	-11460 Sep 20 j 18:11	15° \mathbb{A} 27'20		conjunction	-11454 Nov 19 j 05:26	9° \mathbb{P} 37'48	-0°21'12
opposition	-11460 Nov 19 j 17:28	10° \mathbb{A} 34'32	0°33'42	minimum elong	-11454 Nov 19 j 05:24	9° \mathbb{P} 37'46	0°20'56
min. Earth dist.	-11460 Nov 20 j 11:38	10° \mathbb{A} 28'39	4.32708 AU	max. Earth dist.	-11454 Nov 20 j 08:01	9° \mathbb{P} 53'23	6.07605 AU
direct	-11459 Jan 21 j 00:46	5° \mathbb{A} 32'12		morning rise	-11454 Dec 02 j 17:14	12° \mathbb{P} 47'06	
evening set	-11459 May 29 j 00:32	23° \mathbb{A} 43'39			-11453 Mar 02 j 04:33	0° $\underline{\mathbb{A}}$	
				retrograde	-11453 Apr 13 j 05:17	2° $\underline{\mathbb{A}}$ 41'54	
conjunction	-11459 Jun 10 j 20:07	26° \mathbb{A} 34'52	0°50'16		-11453 May 25 j 00:07	30° \mathbb{R} \mathbb{P}	
minimum elong	-11459 Jun 10 j 20:03	26° \mathbb{A} 34'50	0°50'10	opposition	-11453 Jun 12 j 08:03	27° \mathbb{P} 37'12	-1°16'18
max. Earth dist.	-11459 Jun 09 j 16:27	26° \mathbb{A} 19'25	6.33605 AU	min. Earth dist.	-11453 Jun 11 j 12:04	27° \mathbb{P} 43'58	4.06787 AU
morning rise	-11459 Jun 23 j 12:28	29° \mathbb{A} 24'33		direct	-11453 Aug 09 j 12:52	22° \mathbb{P} 40'48	
	-11459 Jun 26 j 04:29	0° \mathbb{Y}			-11453 Oct 18 j 14:05	0° $\underline{\mathbb{A}}$	
retrograde	-11459 Oct 22 j 13:48	16° \mathbb{Y} 44'29		evening set	-11453 Dec 12 j 06:56	11° $\underline{\mathbb{A}}$ 43'46	
opposition	-11459 Dec 22 j 07:08	11° \mathbb{Y} 52'45	1°46'03				
min. Earth dist.	-11459 Dec 23 j 03:12	11° \mathbb{Y} 46'21	4.33566 AU	conjunction	-11453 Dec 25 j 21:52	14° $\underline{\mathbb{A}}$ 54'07	-1°15'18

Attention, astronomical year style is used: The year -11452 in astronomical counting style is the year 11453 BCE in historical counting style.

minimum elong	-11453 Dec 25 j 21:45	14° Ω 54'03	1°15'26	morning rise	-11447 Jun 27 j 21:04	3° Υ 54'33	
max. Earth dist.	-11453 Dec 27 j 05:51	15° Ω 12'46	6.07048 AU	retrograde	-11447 Oct 27 j 03:52	21° Υ 16'23	
morning rise	-11452 Jan 08 j 15:02	18° Ω 05'37		opposition	-11447 Dec 26 j 22:33	16° Υ 24'39	1°54'11
	-11452 Mar 04 j 08:18	0° \mathbb{M}		min. Earth dist.	-11447 Dec 27 j 19:05	16° Υ 18'07	4.33249 AU
retrograde	-11452 May 17 j 20:46	7° \mathbb{M} 50'47		direct	-11446 Feb 27 j 09:26	11° Υ 25'38	
min. Earth dist.	-11452 Jul 15 j 11:41	2° \mathbb{M} 52'16	4.08666 AU	evening set	-11446 Jul 03 j 18:26	29° Υ 28'24	
opposition	-11452 Jul 16 j 05:40	2° \mathbb{M} 46'06	-2°18'46		-11446 Jul 06 j 02:52	0° \mathcal{B}	
	-11452 Aug 06 j 17:26	30° \mathcal{R} Ω		max. Earth dist.	-11446 Jul 15 j 03:39	2° \mathcal{B} 01'59	6.31656 AU
direct	-11452 Sep 12 j 14:32	27° Ω 46'20					
	-11452 Oct 19 j 17:36	0° \mathbb{M}		conjunction	-11446 Jul 16 j 05:03	2° \mathcal{B} 16'19	1°33'58
	-11451 Jan 08 j 20:06	15° \mathbb{M}		minimum elong	-11446 Jul 16 j 04:59	2° \mathcal{B} 16'16	1°34'16
evening set	-11451 Jan 17 j 10:14	16° \mathbb{M} 57'23		morning rise	-11446 Jul 28 j 14:00	5° \mathcal{B} 03'31	
					-11446 Sep 14 j 05:16	15° \mathcal{B}	
conjunction	-11451 Jan 31 j 03:05	20° \mathbb{M} 06'36	-1°41'51	retrograde	-11446 Nov 28 j 21:44	22° \mathcal{B} 48'22	
minimum elong	-11451 Jan 31 j 03:02	20° \mathbb{M} 06'34	1°42'18	opposition	-11445 Jan 29 j 06:31	17° \mathcal{B} 55'35	2°30'32
max. Earth dist.	-11451 Feb 01 j 01:45	20° \mathbb{M} 19'40	6.11043 AU	min. Earth dist.	-11445 Jan 29 j 22:14	17° \mathcal{B} 50'37	4.29398 AU
morning rise	-11451 Feb 13 j 20:32	23° \mathbb{M} 15'57			-11445 Feb 23 j 01:25	15° \mathcal{R} \mathcal{B}	
	-11451 Mar 16 j 05:28	0° \mathcal{X}		direct	-11445 Apr 01 j 04:10	12° \mathcal{B} 59'42	
retrograde	-11451 Jun 21 j 06:48	12° \mathcal{X} 25'50			-11445 May 07 j 22:27	15° \mathcal{B}	
opposition	-11451 Aug 19 j 06:39	7° \mathcal{X} 23'27	-2°30'39		-11445 Jul 30 j 06:09	0° \mathbb{I}	
min. Earth dist.	-11451 Aug 18 j 20:29	7° \mathcal{X} 26'55	4.14442 AU	evening set	-11445 Aug 03 j 23:10	1° \mathbb{I} 03'50	
direct	-11451 Oct 17 j 12:57	2° \mathcal{X} 20'41					
evening set	-11450 Feb 22 j 23:14	21° \mathcal{X} 24'43		conjunction	-11445 Aug 16 j 07:31	3° \mathbb{I} 52'48	1°43'28
				minimum elong	-11445 Aug 16 j 07:32	3° \mathbb{I} 52'49	1°44'01
conjunction	-11450 Mar 08 j 14:59	24° \mathcal{X} 30'26	-1°32'03	max. Earth dist.	-11445 Aug 15 j 15:07	3° \mathbb{I} 43'26	6.26143 AU
minimum elong	-11450 Mar 08 j 15:04	24° \mathcal{X} 30'29	1°32'41	morning rise	-11445 Aug 28 j 16:23	6° \mathbb{I} 42'07	
max. Earth dist.	-11450 Mar 08 j 22:38	24° \mathcal{X} 34'47	6.18095 AU	retrograde	-11444 Jan 01 j 21:49	25° \mathbb{I} 04'55	
morning rise	-11450 Mar 22 j 05:03	27° \mathcal{X} 35'13		opposition	-11444 Mar 03 j 11:57	20° \mathbb{I} 09'22	2°21'56
	-11450 Apr 02 j 00:02	0° \mathcal{Z}		min. Earth dist.	-11444 Mar 03 j 18:03	20° \mathbb{I} 07'26	4.22626 AU
retrograde	-11450 Jul 24 j 11:05	15° \mathcal{Z} 58'08		direct	-11444 May 03 j 09:16	15° \mathbb{I} 15'47	
opposition	-11450 Sep 21 j 10:22	10° \mathcal{Z} 59'28	-1°51'16		-11444 Aug 19 j 11:12	0° \mathcal{E}	
min. Earth dist.	-11450 Sep 21 j 11:34	10° \mathcal{Z} 59'03	4.22046 AU	evening set	-11444 Sep 03 j 18:52	3° \mathcal{E} 28'32	
direct	-11450 Nov 20 j 22:12	5° \mathcal{Z} 55'15					
evening set	-11449 Mar 30 j 00:41	24° \mathcal{Z} 40'58		conjunction	-11444 Sep 16 j 08:23	6° \mathcal{E} 22'45	1°21'11
				minimum elong	-11444 Sep 16 j 08:28	6° \mathcal{E} 22'48	1°21'49
conjunction	-11449 Apr 12 j 12:04	27° \mathcal{Z} 41'56	-0°51'55	max. Earth dist.	-11444 Sep 16 j 08:42	6° \mathcal{E} 22'56	6.18733 AU
minimum elong	-11449 Apr 12 j 12:09	27° \mathcal{Z} 41'59	0°52'31	morning rise	-11444 Sep 29 j 00:02	9° \mathcal{E} 18'14	
max. Earth dist.	-11449 Apr 12 j 01:17	27° \mathcal{Z} 35'53	6.25715 AU	retrograde	-11443 Feb 05 j 02:23	28° \mathcal{E} 23'31	
	-11449 Apr 22 j 18:29	0° \approx		opposition	-11443 Apr 07 j 12:16	23° \mathcal{E} 24'17	1°27'09
morning rise	-11449 Apr 25 j 20:31	0° \approx 41'19		min. Earth dist.	-11443 Apr 07 j 06:00	23° \mathcal{E} 26'19	4.15069 AU
	-11449 Jul 09 j 14:31	15° \approx		direct	-11443 Jun 06 j 03:54	18° \mathcal{E} 31'28	
retrograde	-11449 Aug 25 j 12:45	18° \approx 23'24			-11443 Sep 05 j 19:50	0° \mathcal{Q}	
	-11449 Oct 12 j 03:48	15° \mathcal{R} \approx		evening set	-11443 Oct 06 j 23:16	6° \mathcal{Q} 58'59	
opposition	-11449 Oct 23 j 22:47	13° \approx 28'21	-0°37'55				
min. Earth dist.	-11449 Oct 24 j 10:22	13° \approx 24'32	4.28953 AU	conjunction	-11443 Oct 19 j 22:36	10° \mathcal{Q} 00'37	0°31'44
direct	-11449 Dec 24 j 13:54	8° \approx 24'26		minimum elong	-11443 Oct 19 j 22:39	10° \mathcal{Q} 00'39	0°32'16
	-11448 Mar 03 j 14:30	15° \approx		max. Earth dist.	-11443 Oct 20 j 14:34	10° \mathcal{Q} 09'57	6.11770 AU
asc. node	-11448 Apr 20 j 03:08	24° \approx 21'13		morning rise	-11443 Nov 02 j 01:31	13° \mathcal{Q} 04'13	
evening set	-11448 May 01 j 10:12	26° \approx 49'44			-11443 Nov 10 j 10:28	15° \mathcal{Q}	
					-11442 Jan 29 j 09:42	0° \mathbb{P}	
conjunction	-11448 May 14 j 13:57	29° \approx 45'19	0°03'34	retrograde	-11442 Mar 13 j 02:53	2° \mathbb{P} 43'52	
minimum elong	-11448 May 14 j 13:56	29° \approx 45'19	0°03'12		-11442 Apr 24 j 19:07	30° \mathcal{R} \mathcal{Q}	
behind sun begin	-11448 May 14 j 05:53	29° \approx 40'51		opposition	-11442 May 12 j 22:25	27° \mathcal{Q} 41'02	0°00'47
behind sun end	-11448 May 14 j 22:00	29° \approx 49'47		min. Earth dist.	-11442 May 12 j 06:12	27° \mathcal{Q} 46'26	4.09205 AU
max. Earth dist.	-11448 May 13 j 14:56	29° \approx 32'29	6.31459 AU	desc. node	-11442 May 16 j 06:22	27° \mathcal{Q} 14'29	
	-11448 May 15 j 16:16	0° \mathcal{X}		direct	-11442 Jul 10 j 13:58	22° \mathcal{Q} 46'57	
morning rise	-11448 May 27 j 14:05	2° \mathcal{X} 39'06			-11442 Sep 18 j 03:39	0° \mathbb{P}	
retrograde	-11448 Sep 25 j 05:21	19° \mathcal{X} 59'16		evening set	-11442 Nov 10 j 22:18	11° \mathbb{P} 33'23	
opposition	-11448 Nov 24 j 06:59	15° \mathcal{X} 06'48	0°45'03				
min. Earth dist.	-11448 Nov 25 j 01:47	15° \mathcal{X} 00'44	4.33089 AU	conjunction	-11442 Nov 24 j 07:43	14° \mathbb{P} 41'17	-0°29'45
direct	-11447 Jan 25 j 15:28	10° \mathcal{X} 04'54		minimum elong	-11442 Nov 24 j 07:40	14° \mathbb{P} 41'15	0°29'32
evening set	-11447 Jun 02 j 11:34	28° \mathcal{X} 14'43		max. Earth dist.	-11442 Nov 25 j 12:58	14° \mathbb{P} 58'25	6.07570 AU
	-11447 Jun 10 j 08:46	0° Υ		morning rise	-11442 Dec 07 j 20:28	17° \mathbb{P} 50'59	
max. Earth dist.	-11447 Jun 14 j 00:06	0° Υ 48'48	6.33625 AU		-11441 Feb 02 j 17:20	0° Ω	
				retrograde	-11441 Apr 18 j 06:18	7° Ω 44'40	
conjunction	-11447 Jun 15 j 05:43	1° Υ 05'20	0°57'06	min. Earth dist.	-11441 Jun 16 j 10:28	2° Ω 46'35	4.07121 AU
minimum elong	-11447 Jun 15 j 05:38	1° Υ 05'18	0°57'04	opposition	-11441 Jun 17 j 06:26	2° Ω 39'49	-1°27'22

Attention, astronomical year style is used: The year -11441 in astronomical counting style is the year 11442 BCE in historical counting style.

	-11441 Jul 08 j 01:17	30° \mathbb{R} \mathbb{M}		max. Earth dist.	-11435 Jun 18 j 11:40	5° \mathbb{Y} 21'01	6.33268 AU
direct	-11441 Aug 14 j 10:46	27° \mathbb{M} 42'58					
	-11441 Sep 20 j 19:31	0° \mathbb{L}		conjunction	-11435 Jun 19 j 15:53	5° \mathbb{Y} 36'49	1°03'35
evening set	-11441 Dec 17 j 10:48	16° \mathbb{L} 46'21		minimum elong	-11435 Jun 19 j 15:48	5° \mathbb{Y} 36'46	1°03'37
				morning rise	-11435 Jul 02 j 06:03	8° \mathbb{Y} 25'41	
conjunction	-11441 Dec 31 j 02:00	19° \mathbb{L} 56'32	-1°20'59	retrograde	-11435 Oct 31 j 18:28	25° \mathbb{Y} 50'34	
minimum elong	-11441 Dec 31 j 01:54	19° \mathbb{L} 56'28	1°21'10	opposition	-11435 Dec 31 j 15:20	20° \mathbb{Y} 58'49	2°01'41
max. Earth dist.	-11440 Jan 01 j 07:49	20° \mathbb{L} 13'53	6.07674 AU	min. Earth dist.	-11434 Jan 01 j 11:14	20° \mathbb{Y} 52'30	4.32693 AU
morning rise	-11440 Jan 13 j 19:34	23° \mathbb{L} 07'48		direct	-11434 Mar 04 j 01:06	16° \mathbb{Y} 00'20	
	-11440 Feb 13 j 12:27	0° \mathbb{M}			-11434 Jun 19 j 18:41	0° \mathbb{B}	
retrograde	-11440 May 22 j 16:02	12° \mathbb{M} 48'09		evening set	-11434 Jul 08 j 05:14	4° \mathbb{B} 03'29	
min. Earth dist.	-11440 Jul 20 j 06:59	7° \mathbb{M} 49'33	4.09527 AU				
opposition	-11440 Jul 21 j 00:21	7° \mathbb{M} 43'36	-2°23'38	conjunction	-11434 Jul 20 j 15:03	6° \mathbb{B} 51'20	1°37'08
direct	-11440 Sep 17 j 11:52	2° \mathbb{M} 43'18		minimum elong	-11434 Jul 20 j 14:59	6° \mathbb{B} 51'18	1°37'28
	-11440 Dec 22 j 10:44	15° \mathbb{M}		max. Earth dist.	-11434 Jul 19 j 13:55	6° \mathbb{B} 37'08	6.30925 AU
evening set	-11439 Jan 22 j 12:46	21° \mathbb{M} 53'18		morning rise	-11434 Aug 01 j 23:46	9° \mathbb{B} 38'41	
					-11434 Aug 26 j 10:45	15° \mathbb{B}	
conjunction	-11439 Feb 05 j 05:43	25° \mathbb{M} 02'03	-1°42'38	retrograde	-11434 Dec 03 j 16:52	27° \mathbb{B} 28'32	
minimum elong	-11439 Feb 05 j 05:42	25° \mathbb{M} 02'02	1°43'08	opposition	-11433 Feb 03 j 02:47	22° \mathbb{B} 35'23	2°32'10
max. Earth dist.	-11439 Feb 06 j 02:56	25° \mathbb{M} 14'15	6.12056 AU	min. Earth dist.	-11433 Feb 03 j 16:54	22° \mathbb{B} 30'55	4.28554 AU
morning rise	-11439 Feb 18 j 22:41	28° \mathbb{M} 10'44		direct	-11433 Apr 05 j 21:39	17° \mathbb{B} 39'53	
	-11439 Feb 26 j 23:21	0° \mathbb{J}			-11433 Jul 13 j 10:17	0° \mathbb{I}	
retrograde	-11439 Jun 25 j 23:27	17° \mathbb{J} 13'58		evening set	-11433 Aug 08 j 10:58	5° \mathbb{I} 44'41	
opposition	-11439 Aug 23 j 21:40	12° \mathbb{J} 12'04	-2°27'59				
min. Earth dist.	-11439 Aug 23 j 13:52	12° \mathbb{J} 14'43	4.15496 AU	conjunction	-11433 Aug 20 j 19:46	8° \mathbb{I} 34'09	1°42'12
direct	-11439 Oct 22 j 08:14	7° \mathbb{J} 08'59		minimum elong	-11433 Aug 20 j 19:47	8° \mathbb{I} 34'10	1°42'47
evening set	-11438 Feb 27 j 21:39	26° \mathbb{J} 10'53		max. Earth dist.	-11433 Aug 20 j 07:16	8° \mathbb{I} 27'00	6.25255 AU
				morning rise	-11433 Sep 02 j 05:02	11° \mathbb{I} 24'02	
conjunction	-11438 Mar 13 j 12:59	29° \mathbb{J} 16'03	-1°28'02	retrograde	-11432 Jan 06 j 20:05	29° \mathbb{I} 52'16	
minimum elong	-11438 Mar 13 j 13:04	29° \mathbb{J} 16'06	1°28'40	opposition	-11432 Mar 08 j 10:47	24° \mathbb{I} 56'16	2°16'45
max. Earth dist.	-11438 Mar 13 j 16:54	29° \mathbb{J} 18'16	6.19097 AU	min. Earth dist.	-11432 Mar 08 j 14:52	24° \mathbb{I} 54'58	4.21750 AU
	-11438 Mar 16 j 18:31	0° \mathbb{Z}		direct	-11432 May 08 j 04:14	20° \mathbb{I} 02'57	
morning rise	-11438 Mar 27 j 02:33	2° \mathbb{Z} 20'10			-11432 Aug 01 j 15:37	0° \mathbb{E}	
retrograde	-11438 Jul 28 j 21:56	20° \mathbb{Z} 37'11		evening set	-11432 Sep 08 j 09:57	8° \mathbb{E} 16'35	
opposition	-11438 Sep 25 j 22:56	15° \mathbb{Z} 39'01	-1°42'38				
min. Earth dist.	-11438 Sep 26 j 01:32	15° \mathbb{Z} 38'08	4.22907 AU	conjunction	-11432 Sep 21 j 00:26	11° \mathbb{E} 11'37	1°15'34
direct	-11438 Nov 25 j 14:03	10° \mathbb{Z} 34'41		minimum elong	-11432 Sep 21 j 00:32	11° \mathbb{E} 11'40	1°16'12
evening set	-11437 Apr 03 j 18:01	29° \mathbb{Z} 18'22		max. Earth dist.	-11432 Sep 21 j 02:22	11° \mathbb{E} 12'44	6.17929 AU
	-11437 Apr 06 j 20:46	0° \mathbb{A}		morning rise	-11432 Oct 03 j 17:34	14° \mathbb{E} 08'06	
					-11432 Dec 24 j 14:40	0° \mathbb{O}	
conjunction	-11437 Apr 17 j 04:37	2° \mathbb{A} 18'46	-0°44'46	retrograde	-11431 Feb 10 j 03:32	3° \mathbb{O} 17'58	
minimum elong	-11437 Apr 17 j 04:41	2° \mathbb{A} 18'49	0°45'19		-11431 Mar 30 j 04:50	30° \mathbb{R} \mathbb{E}	
max. Earth dist.	-11437 Apr 16 j 15:34	2° \mathbb{A} 11'27	6.26392 AU	opposition	-11431 Apr 12 j 12:10	28° \mathbb{E} 18'10	1°16'17
morning rise	-11437 Apr 30 j 12:06	5° \mathbb{A} 17'31		min. Earth dist.	-11431 Apr 12 j 04:00	28° \mathbb{E} 20'50	4.14370 AU
	-11437 Jun 16 j 01:00	15° \mathbb{A}		direct	-11431 Jun 11 j 00:07	23° \mathbb{E} 25'16	
retrograde	-11437 Aug 30 j 00:15	22° \mathbb{A} 56'23			-11431 Aug 16 j 15:57	0° \mathbb{O}	
opposition	-11437 Oct 28 j 11:08	18° \mathbb{A} 01'49	-0°26'24	evening set	-11431 Oct 11 j 18:46	11° \mathbb{O} 54'15	
min. Earth dist.	-11437 Oct 29 j 00:30	17° \mathbb{A} 57'25	4.29383 AU				
	-11437 Nov 22 j 06:35	15° \mathbb{R} \mathbb{A}		conjunction	-11431 Oct 24 j 19:42	14° \mathbb{O} 56'48	0°23'21
direct	-11437 Dec 29 j 05:11	12° \mathbb{A} 58'07		minimum elong	-11431 Oct 24 j 19:45	14° \mathbb{O} 56'50	0°23'50
	-11436 Feb 04 j 11:15	15° \mathbb{A}			-11431 Oct 25 j 01:10	15° \mathbb{O}	
asc. node	-11436 Feb 29 j 05:02	18° \mathbb{A} 14'59		max. Earth dist.	-11431 Oct 25 j 15:03	15° \mathbb{O} 08'07	6.11252 AU
	-11436 Apr 29 j 18:33	0° \mathbb{H}		morning rise	-11431 Nov 07 j 00:02	18° \mathbb{O} 01'18	
evening set	-11436 May 05 j 23:38	1° \mathbb{H} 22'08			-11430 Jan 02 j 05:04	0° \mathbb{M}	
max. Earth dist.	-11436 May 18 j 01:04	4° \mathbb{H} 03'10	6.31607 AU	retrograde	-11430 Mar 18 j 05:12	7° \mathbb{M} 43'21	
				desc. node	-11430 Mar 26 j 08:47	7° \mathbb{M} 36'57	
conjunction	-11436 May 19 j 02:10	4° \mathbb{H} 17'10	0°11'30	opposition	-11430 May 17 j 21:58	2° \mathbb{M} 40'11	-0°12'17
minimum elong	-11436 May 19 j 02:08	4° \mathbb{H} 17'09	0°11'11	min. Earth dist.	-11430 May 17 j 05:18	2° \mathbb{M} 45'44	4.08916 AU
behind sun begin	-11436 May 18 j 20:09	4° \mathbb{H} 13'50			-11430 Jun 08 j 03:19	30° \mathbb{R} \mathbb{O}	
behind sun end	-11436 May 19 j 08:08	4° \mathbb{H} 20'29		direct	-11430 Jul 15 j 11:03	27° \mathbb{O} 45'52	
morning rise	-11436 Jun 01 j 01:13	7° \mathbb{H} 10'25			-11430 Aug 21 j 11:36	0° \mathbb{M}	
retrograde	-11436 Sep 29 j 16:57	24° \mathbb{H} 30'46		evening set	-11430 Nov 15 j 22:58	16° \mathbb{M} 34'04	
opposition	-11436 Nov 28 j 20:50	19° \mathbb{H} 38'28	0°56'05				
min. Earth dist.	-11436 Nov 29 j 15:51	19° \mathbb{H} 32'20	4.32977 AU	conjunction	-11430 Nov 29 j 09:16	19° \mathbb{M} 42'23	-0°38'02
direct	-11435 Jan 30 j 05:46	14° \mathbb{H} 36'55		minimum elong	-11430 Nov 29 j 09:11	19° \mathbb{M} 42'20	0°37'52
	-11435 May 25 j 07:22	0° \mathbb{Y}		max. Earth dist.	-11430 Nov 30 j 13:45	19° \mathbb{M} 59'03	6.07518 AU
evening set	-11435 Jun 06 j 22:52	2° \mathbb{Y} 46'34		morning rise	-11430 Dec 12 j 23:06	22° \mathbb{M} 52'31	

Attention, astronomical year style is used: The year -11429 in astronomical counting style is the year 11430 BCE in historical counting style.

	-11429 Jan 13 j 16:58	0°♏		max. Earth dist.	-11423 Jun 22 j 21:43	9°♏54'03	6.33155 AU
retrograde	-11429 Apr 23 j 04:53	12°♏45'26					
min. Earth dist.	-11429 Jun 21 j 07:20	7°♏47'27	4.07335 AU	conjunction	-11423 Jun 24 j 01:58	10°♏09'53	1°09'45
opposition	-11429 Jun 22 j 03:47	7°♏40'30	-1°37'46	minimum elong	-11423 Jun 24 j 01:53	10°♏09'50	1°09'49
direct	-11429 Aug 19 j 08:04	2°♏43'12		morning rise	-11423 Jul 06 j 15:10	12°♏58'21	
evening set	-11429 Dec 22 j 14:27	21°♏47'53			-11423 Oct 19 j 20:55	0°♏	
				retrograde	-11423 Nov 05 j 08:31	0°♏25'31	
conjunction	-11428 Jan 05 j 06:14	24°♏58'02	-1°26'04		-11423 Nov 21 j 21:47	30°♏♏	
minimum elong	-11428 Jan 05 j 06:08	24°♏57'59	1°26'18	opposition	-11422 Jan 05 j 08:18	25°♏33'38	2°08'26
max. Earth dist.	-11428 Jan 06 j 12:06	25°♏15'24	6.08131 AU	min. Earth dist.	-11422 Jan 06 j 02:51	25°♏27'44	4.32408 AU
morning rise	-11428 Jan 18 j 23:46	28°♏09'04		direct	-11422 Mar 08 j 16:30	20°♏35'33	
	-11428 Jan 27 j 01:21	0°♏			-11422 Jun 01 j 22:14	0°♏	
	-11428 Apr 15 j 13:07	15°♏		evening set	-11422 Jul 12 j 15:21	8°♏37'59	
retrograde	-11428 May 27 j 13:42	17°♏45'24		max. Earth dist.	-11422 Jul 24 j 02:29	11°♏13'11	6.30488 AU
	-11428 Jul 08 j 05:23	15°♏♏					
opposition	-11428 Jul 25 j 18:53	12°♏41'10	-2°27'30	conjunction	-11422 Jul 25 j 00:39	11°♏25'44	1°39'42
min. Earth dist.	-11428 Jul 25 j 03:30	12°♏46'26	4.10193 AU	minimum elong	-11422 Jul 25 j 00:36	11°♏25'42	1°40'05
direct	-11428 Sep 22 j 09:25	7°♏40'26		morning rise	-11422 Aug 06 j 08:50	14°♏13'02	
	-11428 Dec 02 j 11:06	15°♏			-11422 Aug 09 j 20:36	15°♏	
evening set	-11427 Jan 27 j 15:46	26°♏50'16			-11422 Oct 31 j 18:27	0°♏	
				retrograde	-11422 Dec 08 j 10:28	2°♏06'44	
conjunction	-11427 Feb 10 j 08:39	29°♏58'39	-1°42'43		-11421 Jan 15 j 12:30	30°♏♏	
minimum elong	-11427 Feb 10 j 08:39	29°♏58'39	1°43'15	opposition	-11421 Feb 07 j 21:53	27°♏13'17	2°32'48
	-11427 Feb 10 j 11:00	0°♏♏		min. Earth dist.	-11421 Feb 08 j 11:03	27°♏09'07	4.27991 AU
max. Earth dist.	-11427 Feb 11 j 03:08	0°♏09'16	6.12858 AU	direct	-11421 Apr 10 j 14:40	22°♏18'08	
morning rise	-11427 Feb 24 j 01:24	3°♏06'51			-11421 Jun 24 j 14:52	0°♏	
retrograde	-11427 Jun 30 j 14:43	22°♏04'15		evening set	-11421 Aug 12 j 21:42	10°♏22'40	
opposition	-11427 Aug 28 j 13:23	17°♏02'49	-2°24'20				
min. Earth dist.	-11427 Aug 28 j 06:23	17°♏05'13	4.16368 AU	conjunction	-11421 Aug 25 j 06:43	13°♏12'30	1°40'18
direct	-11427 Oct 27 j 02:30	11°♏59'28		minimum elong	-11421 Aug 25 j 06:45	13°♏12'32	1°40'53
	-11426 Feb 28 j 09:53	0°♏		max. Earth dist.	-11421 Aug 24 j 19:01	13°♏05'49	6.24600 AU
evening set	-11426 Mar 04 j 20:42	0°♏59'51		morning rise	-11421 Sep 06 j 16:47	16°♏02'59	
					-11421 Nov 15 j 19:40	0°♏	
conjunction	-11426 Mar 18 j 11:36	4°♏04'30	-1°23'23	retrograde	-11420 Jan 11 j 16:16	4°♏35'46	
minimum elong	-11426 Mar 18 j 11:41	4°♏04'33	1°24'02		-11420 Mar 10 j 14:28	30°♏♏	
max. Earth dist.	-11426 Mar 18 j 12:30	4°♏05'01	6.19981 AU	opposition	-11420 Mar 13 j 07:30	29°♏39'11	2°10'42
morning rise	-11426 Apr 01 j 00:32	7°♏08'00		min. Earth dist.	-11420 Mar 13 j 09:28	29°♏38'33	4.21029 AU
retrograde	-11426 Aug 02 j 12:08	25°♏19'41		direct	-11420 May 12 j 20:47	24°♏45'57	
opposition	-11426 Sep 30 j 13:00	20°♏22'04	-1°33'16		-11420 Jul 11 j 12:54	0°♏	
min. Earth dist.	-11426 Sep 30 j 18:03	20°♏20'23	4.23703 AU	evening set	-11420 Sep 12 j 23:07	13°♏00'07	
direct	-11426 Nov 30 j 08:32	15°♏17'45					
	-11425 Mar 21 j 06:36	0°♏		conjunction	-11420 Sep 25 j 14:59	15°♏56'02	1°09'32
evening set	-11425 Apr 08 j 12:18	3°♏59'23		minimum elong	-11420 Sep 25 j 15:05	15°♏56'05	1°10'09
				max. Earth dist.	-11420 Sep 25 j 20:25	15°♏59'11	6.17220 AU
conjunction	-11425 Apr 21 j 22:06	6°♏59'12	-0°37'14	morning rise	-11420 Oct 08 j 09:22	18°♏53'26	
minimum elong	-11425 Apr 21 j 22:10	6°♏59'14	0°37'46		-11420 Nov 29 j 12:16	0°♏	
max. Earth dist.	-11425 Apr 21 j 07:22	6°♏50'57	6.27052 AU	retrograde	-11419 Feb 15 j 03:16	8°♏07'23	
morning rise	-11425 May 05 j 04:33	9°♏57'17		opposition	-11419 Apr 17 j 09:46	3°♏07'04	1°05'03
	-11425 May 28 j 09:01	15°♏		min. Earth dist.	-11419 Apr 17 j 01:05	3°♏09'54	4.13704 AU
retrograde	-11425 Sep 03 j 10:54	27°♏33'03			-11419 May 13 j 08:48	30°♏♏	
opposition	-11425 Nov 02 j 00:41	22°♏38'52	-0°14'35	direct	-11419 Jun 15 j 18:47	28°♏14'04	
min. Earth dist.	-11425 Nov 02 j 14:20	22°♏34'23	4.29868 AU		-11419 Jul 18 j 20:42	0°♏	
direct	-11424 Jan 02 j 20:38	17°♏35'25			-11419 Oct 08 j 23:44	15°♏	
asc. node	-11424 Jan 09 j 01:18	17°♏38'56		evening set	-11419 Oct 16 j 12:57	16°♏44'40	
	-11424 Apr 12 j 19:34	0°♏					
evening set	-11424 May 10 j 13:56	5°♏57'48		conjunction	-11419 Oct 29 j 15:07	19°♏48'04	0°14'56
				minimum elong	-11419 Oct 29 j 15:09	19°♏48'05	0°15'22
conjunction	-11424 May 23 j 15:07	8°♏52'10	0°19'29	behind sun begin	-11419 Oct 29 j 12:41	19°♏46'39	
minimum elong	-11424 May 23 j 15:05	8°♏52'09	0°19'12	behind sun end	-11419 Oct 29 j 17:37	19°♏49'31	
max. Earth dist.	-11424 May 22 j 13:22	8°♏37'48	6.31903 AU	max. Earth dist.	-11419 Oct 30 j 10:22	19°♏59'19	6.10688 AU
morning rise	-11424 Jun 05 j 12:56	11°♏44'48		morning rise	-11419 Nov 11 j 21:06	22°♏53'29	
retrograde	-11424 Oct 04 j 06:00	29°♏04'54			-11419 Dec 13 j 14:23	0°♏	
opposition	-11424 Dec 03 j 11:47	24°♏12'49	1°06'53	desc. node	-11418 Feb 03 j 19:35	9°♏17'58	
min. Earth dist.	-11424 Dec 04 j 07:35	24°♏06'28	4.33076 AU	retrograde	-11418 Mar 23 j 03:21	12°♏37'57	
direct	-11423 Feb 03 j 22:33	19°♏11'43		opposition	-11418 May 22 j 18:55	7°♏34'24	-0°25'03
	-11423 May 07 j 22:54	0°♏		min. Earth dist.	-11418 May 22 j 01:03	7°♏40'22	4.08501 AU
evening set	-11423 Jun 11 j 10:11	7°♏20'09		direct	-11418 Jul 20 j 05:27	2°♏39'41	

Attention, astronomical year style is used: The year -11418 in astronomical counting style is the year 11419 BCE in historical counting style.

evening set	-11418 Nov 20 j 22:30	21° \mathbb{M} 30'29		conjunction	-11412 May 28 j 03:37	13° \mathbb{H} 26'14	0°27'21
				minimum elong	-11412 May 28 j 03:34	13° \mathbb{H} 26'12	0°27'08
conjunction	-11418 Dec 04 j 09:59	24° \mathbb{M} 39'22	-0°45'56	morning rise	-11412 Jun 10 j 00:03	16° \mathbb{H} 18'07	
minimum elong	-11418 Dec 04 j 09:54	24° \mathbb{M} 39'19	0°45'50		-11412 Aug 20 j 12:24	0° \mathbb{Y}	
max. Earth dist.	-11418 Dec 05 j 15:48	24° \mathbb{M} 56'49	6.07294 AU	retrograde	-11412 Oct 08 j 16:44	3° \mathbb{Y} 37'28	
morning rise	-11418 Dec 18 j 00:32	27° \mathbb{M} 49'53			-11412 Nov 28 j 07:16	30° \mathbb{R} \mathbb{H}	
	-11418 Dec 27 j 10:26	0° \mathbb{L}		opposition	-11412 Dec 08 j 02:21	28° \mathbb{H} 45'29	1°17'15
retrograde	-11417 Apr 28 j 04:59	17° \mathbb{L} 42'34		min. Earth dist.	-11412 Dec 08 j 21:26	28° \mathbb{H} 39'22	4.33347 AU
opposition	-11417 Jun 26 j 23:41	12° \mathbb{L} 37'36	-1°47'20	direct	-11411 Feb 08 j 13:04	23° \mathbb{H} 44'46	
min. Earth dist.	-11417 Jun 26 j 04:42	12° \mathbb{L} 44'05	4.07331 AU		-11411 Apr 17 j 19:42	0° \mathbb{Y}	
direct	-11417 Aug 24 j 04:58	7° \mathbb{L} 39'50		evening set	-11411 Jun 15 j 20:39	11° \mathbb{Y} 51'26	
evening set	-11417 Dec 27 j 17:39	26° \mathbb{L} 46'47		max. Earth dist.	-11411 Jun 27 j 07:20	14° \mathbb{Y} 24'59	6.33161 AU
conjunction	-11416 Jan 10 j 09:47	29° \mathbb{L} 56'59	-1°30'29	conjunction	-11411 Jun 28 j 11:10	14° \mathbb{Y} 40'36	1°15'28
minimum elong	-11416 Jan 10 j 09:42	29° \mathbb{L} 56'56	1°30'45	minimum elong	-11411 Jun 28 j 11:04	14° \mathbb{Y} 40'33	1°15'35
	-11416 Jan 10 j 14:58	0° \mathbb{M}		morning rise	-11411 Jul 10 j 23:19	17° \mathbb{Y} 28'36	
max. Earth dist.	-11416 Jan 11 j 13:58	0° \mathbb{M} 13'21	6.08330 AU		-11411 Sep 12 j 03:57	0° \mathbb{B}	
morning rise	-11416 Jan 24 j 03:37	3° \mathbb{M} 07'59		retrograde	-11411 Nov 09 j 23:13	4° \mathbb{B} 57'53	
	-11416 Mar 19 j 22:39	15° \mathbb{M}		opposition	-11410 Jan 10 j 00:26	0° \mathbb{B} 05'55	2°14'25
retrograde	-11416 Jun 01 j 08:55	22° \mathbb{M} 41'05			-11410 Jan 10 j 19:08	30° \mathbb{R} \mathbb{Y}	
opposition	-11416 Jul 30 j 12:55	17° \mathbb{M} 37'08	-2°30'18	min. Earth dist.	-11410 Jan 10 j 19:30	29° \mathbb{Y} 59'53	4.32139 AU
min. Earth dist.	-11416 Jul 29 j 21:44	17° \mathbb{M} 42'20	4.10605 AU	direct	-11410 Mar 13 j 08:28	25° \mathbb{Y} 08'16	
	-11416 Aug 19 j 16:49	15° \mathbb{R} \mathbb{M}			-11410 May 11 j 09:06	0° \mathbb{B}	
direct	-11416 Sep 27 j 04:28	12° \mathbb{M} 36'00		evening set	-11410 Jul 17 j 00:19	13° \mathbb{B} 10'06	
	-11416 Nov 05 j 00:35	15° \mathbb{M}			-11410 Jul 25 j 03:01	15° \mathbb{B}	
	-11415 Jan 24 j 22:44	0° \mathbb{Z}		max. Earth dist.	-11410 Jul 28 j 11:12	15° \mathbb{B} 45'24	6.29931 AU
evening set	-11415 Feb 01 j 18:55	1° \mathbb{Z} 46'35					
conjunction	-11415 Feb 15 j 11:43	4° \mathbb{Z} 54'42	-1°42'02	conjunction	-11410 Jul 29 j 09:08	15° \mathbb{B} 57'50	1°41'41
minimum elong	-11415 Feb 15 j 11:44	4° \mathbb{Z} 54'43	1°42'35	minimum elong	-11410 Jul 29 j 09:06	15° \mathbb{B} 57'49	1°42'07
max. Earth dist.	-11415 Feb 16 j 03:25	5° \mathbb{Z} 03'42	6.13452 AU	morning rise	-11410 Aug 10 j 17:14	18° \mathbb{B} 45'18	
morning rise	-11415 Mar 01 j 04:11	8° \mathbb{Z} 02'30			-11410 Oct 04 j 07:49	0° \mathbb{I}	
retrograde	-11415 Jul 05 j 08:14	26° \mathbb{Z} 54'47		retrograde	-11410 Dec 13 j 03:10	6° \mathbb{I} 43'36	
opposition	-11415 Sep 02 j 05:42	21° \mathbb{Z} 53'52	-2°19'39	opposition	-11409 Feb 12 j 16:20	1° \mathbb{I} 49'46	2°32'34
min. Earth dist.	-11415 Sep 02 j 01:01	21° \mathbb{Z} 55'27	4.17080 AU	min. Earth dist.	-11409 Feb 13 j 03:38	1° \mathbb{I} 46'11	4.27188 AU
direct	-11415 Oct 31 j 23:23	16° \mathbb{Z} 50'17			-11409 Feb 27 j 11:23	30° \mathbb{R} \mathbb{B}	
	-11414 Feb 11 j 05:31	0° \mathbb{Z}		direct	-11409 Apr 15 j 04:54	26° \mathbb{B} 54'56	
evening set	-11414 Mar 09 j 20:22	5° \mathbb{Z} 49'30			-11409 May 30 j 22:19	0° \mathbb{I}	
conjunction	-11414 Mar 23 j 10:58	8° \mathbb{Z} 53'42	-1°18'07	conjunction	-11409 Aug 29 j 17:36	17° \mathbb{I} 50'47	1°37'48
minimum elong	-11414 Mar 23 j 11:03	8° \mathbb{Z} 53'45	1°18'46	minimum elong	-11409 Aug 29 j 17:39	17° \mathbb{I} 50'48	1°38'24
max. Earth dist.	-11414 Mar 23 j 10:42	8° \mathbb{Z} 53'33	6.20780 AU	max. Earth dist.	-11409 Aug 29 j 08:49	17° \mathbb{I} 45'44	6.23617 AU
morning rise	-11414 Apr 05 j 23:08	11° \mathbb{Z} 56'37		morning rise	-11409 Sep 11 j 04:20	20° \mathbb{I} 42'00	
	-11414 Aug 01 j 11:57	0° \mathbb{X}			-11409 Oct 24 j 10:32	0° \mathbb{G}	
retrograde	-11414 Aug 07 j 00:51	0° \mathbb{X} 03'05		retrograde	-11408 Jan 16 j 15:12	9° \mathbb{G} 20'45	
	-11414 Aug 12 j 13:56	30° \mathbb{R} \mathbb{Z}		opposition	-11408 Mar 18 j 04:42	4° \mathbb{G} 23'43	2°03'51
opposition	-11414 Oct 05 j 03:45	25° \mathbb{Z} 06'00	-1°23'12	min. Earth dist.	-11408 Mar 18 j 06:14	4° \mathbb{G} 23'13	4.19916 AU
min. Earth dist.	-11414 Oct 05 j 09:01	25° \mathbb{Z} 04'14	4.24516 AU		-11408 Apr 30 j 01:00	30° \mathbb{R} \mathbb{I}	
direct	-11414 Dec 05 j 01:50	20° \mathbb{Z} 01'43		direct	-11408 May 17 j 14:37	29° \mathbb{I} 30'36	
	-11413 Mar 03 j 02:54	0° \mathbb{X}			-11408 Jun 04 j 01:57	0° \mathbb{G}	
evening set	-11413 Apr 13 j 07:02	8° \mathbb{X} 41'01		evening set	-11408 Sep 17 j 13:48	17° \mathbb{G} 47'01	
conjunction	-11413 Apr 26 j 15:43	11° \mathbb{X} 40'07	-0°29'25	conjunction	-11408 Sep 30 j 06:53	20° \mathbb{G} 44'00	1°02'59
minimum elong	-11413 Apr 26 j 15:46	11° \mathbb{X} 40'08	0°29'55	minimum elong	-11408 Sep 30 j 06:59	20° \mathbb{G} 44'03	1°03'36
max. Earth dist.	-11413 Apr 25 j 22:31	11° \mathbb{X} 30'29	6.27832 AU	max. Earth dist.	-11408 Sep 30 j 12:53	20° \mathbb{G} 47'29	6.16079 AU
morning rise	-11413 May 09 j 21:12	14° \mathbb{X} 37'28		morning rise	-11408 Oct 13 j 02:59	23° \mathbb{G} 42'37	
	-11413 May 11 j 13:46	15° \mathbb{X}			-11408 Nov 10 j 05:04	0° \mathbb{Q}	
	-11413 Aug 01 j 20:10	0° \mathbb{H}		retrograde	-11407 Feb 20 j 02:53	13° \mathbb{Q} 02'17	
retrograde	-11413 Sep 08 j 00:03	2° \mathbb{H} 09'49		opposition	-11407 Apr 22 j 08:47	8° \mathbb{Q} 01'27	0°53'14
	-11413 Oct 15 j 09:08	30° \mathbb{R} \mathbb{X}		min. Earth dist.	-11407 Apr 21 j 21:58	8° \mathbb{Q} 04'59	4.12619 AU
opposition	-11413 Nov 06 j 15:07	27° \mathbb{X} 16'01	-0°02'36	direct	-11407 Jun 20 j 13:01	3° \mathbb{Q} 08'17	
min. Earth dist.	-11413 Nov 07 j 06:28	27° \mathbb{X} 11'00	4.30535 AU		-11407 Sep 21 j 15:29	15° \mathbb{Q}	
asc. node	-11413 Nov 18 j 18:59	25° \mathbb{X} 42'13		evening set	-11407 Oct 21 j 09:59	21° \mathbb{Q} 42'23	
direct	-11412 Jan 07 j 15:07	22° \mathbb{X} 12'48					
	-11412 Mar 24 j 15:59	0° \mathbb{H}		conjunction	-11407 Nov 03 j 13:48	24° \mathbb{Q} 46'53	0°06'15
evening set	-11412 May 15 j 03:39	10° \mathbb{H} 32'37		minimum elong	-11407 Nov 03 j 13:49	24° \mathbb{Q} 46'53	0°06'40
max. Earth dist.	-11412 May 27 j 01:54	13° \mathbb{H} 11'53	6.32387 AU	behind sun begin	-11407 Nov 03 j 06:09	24° \mathbb{Q} 42'25	

Attention, astronomical year style is used: The year -11407 in astronomical counting style is the year 11408 BCE in historical counting style.

behind sun end	-11407 Nov 03 j 21:29	24°Ω51'21		retrograde	-11401 Sep 12 j 07:46	6°✠39'33	
max. Earth dist.	-11407 Nov 04 j 11:48	24°Ω59'45	6.09765 AU	asc. node	-11401 Sep 29 j 12:52	6°✠10'52	
morning rise	-11407 Nov 16 j 21:09	27°Ω53'20		opposition	-11401 Nov 11 j 02:46	1°✠46'06	0°09'02
	-11407 Nov 26 j 00:52	0°൬		min. Earth dist.	-11401 Nov 11 j 18:17	1°✠41'03	4.31785 AU
desc. node	-11407 Dec 13 j 19:47	3°൬58'40			-11401 Nov 25 j 00:05	30°℞≈	
retrograde	-11406 Mar 28 j 07:45	17°൬41'30		direct	-11400 Jan 12 j 05:09	26°≈43'08	
opposition	-11406 May 27 j 19:07	12°൬37'38	-0°37'59		-11400 Feb 29 j 09:00	0°✠	
min. Earth dist.	-11406 May 27 j 01:35	12°൬43'31	4.07820 AU	evening set	-11400 May 19 j 13:47	14°✠58'27	
direct	-11406 Jul 25 j 04:43	7°൬42'33		max. Earth dist.	-11400 May 31 j 08:13	17°✠35'28	6.33330 AU
evening set	-11406 Nov 26 j 02:14	26°൬37'01					
conjunction	-11406 Dec 09 j 14:36	29°൬46'28	-0°53'45	conjunction	-11400 Jun 01 j 12:08	17°✠51'02	0°34'48
minimum elong	-11406 Dec 09 j 14:31	29°൬46'25	0°53'42	minimum elong	-11400 Jun 01 j 12:05	17°✠51'01	0°34'38
	-11406 Dec 10 j 13:45	0°Ω		morning rise	-11400 Jun 14 j 07:21	20°✠42'00	
max. Earth dist.	-11406 Dec 10 j 20:35	0°Ω03'59	6.06907 AU		-11400 Jul 29 j 01:25	0°℣	
morning rise	-11406 Dec 23 j 06:07	2°Ω57'30		retrograde	-11400 Oct 13 j 01:45	7°℣59'30	
retrograde	-11405 May 03 j 06:31	22°Ω50'06		opposition	-11400 Dec 12 j 13:12	3°℣07'39	1°26'45
opposition	-11405 Jul 01 j 23:03	17°Ω45'10	-1°56'26	min. Earth dist.	-11400 Dec 13 j 10:03	3°℣00'59	4.33916 AU
min. Earth dist.	-11405 Jul 01 j 03:15	17°Ω51'55	4.07320 AU	direct	-11399 Jan 08 j 01:16	30°℞✠	
direct	-11405 Aug 29 j 03:27	12°Ω46'57			-11399 Feb 13 j 02:07	28°✠07'15	
	-11405 Dec 24 j 14:28	0°℣			-11399 Mar 21 j 01:39	0°℣	
evening set	-11404 Jan 02 j 01:10	1°℣56'09		evening set	-11399 Jun 20 j 02:15	16°℣11'14	
				max. Earth dist.	-11399 Jul 01 j 11:54	18°℣44'14	6.33287 AU
conjunction	-11404 Jan 15 j 17:36	5°℣06'18	-1°34'21	conjunction	-11399 Jul 02 j 15:45	18°℣59'52	1°20'31
minimum elong	-11404 Jan 15 j 17:31	5°℣06'15	1°34'41	minimum elong	-11399 Jul 02 j 15:40	18°℣59'49	1°20'41
max. Earth dist.	-11404 Jan 16 j 20:46	5°℣22'04	6.08697 AU	morning rise	-11399 Jul 15 j 02:55	21°℣47'24	
morning rise	-11404 Jan 29 j 11:28	8°℣17'05			-11399 Aug 22 j 21:05	0°℣	
	-11404 Feb 28 j 13:37	15°℣		retrograde	-11399 Nov 14 j 07:51	9°℣18'44	
retrograde	-11404 Jun 06 j 08:03	27°℣45'52					
opposition	-11404 Aug 04 j 10:12	22°℣42'14	-2°32'04				
min. Earth dist.	-11404 Aug 03 j 20:30	22°℣46'56	4.11344 AU				
direct	-11404 Oct 02 j 05:28	17°℣40'43					
	-11403 Jan 06 j 23:52	0°✠					
evening set	-11403 Feb 07 j 00:50	6°✠50'24					
conjunction	-11403 Feb 20 j 17:36	9°✠58'01	-1°40'38				
minimum elong	-11403 Feb 20 j 17:38	9°✠58'02	1°41'12				
max. Earth dist.	-11403 Feb 21 j 09:19	10°✠07'00	6.14537 AU				
morning rise	-11403 Mar 06 j 09:30	13°✠05'07					
	-11403 Jun 06 j 07:58	0°℣					
retrograde	-11403 Jul 10 j 01:18	1°℣49'59					
	-11403 Aug 12 j 13:45	30°℞✠					
opposition	-11403 Sep 06 j 23:42	26°✠49'35	-2°13'56				
min. Earth dist.	-11403 Sep 06 j 19:11	26°✠51'07	4.18424 AU				
direct	-11403 Nov 05 j 20:47	21°✠45'52					
	-11402 Jan 22 j 15:58	0°℣					
evening set	-11402 Mar 14 j 20:27	10°℣41'06					
conjunction	-11402 Mar 28 j 10:10	13°℣44'22	-1°12'21				
minimum elong	-11402 Mar 28 j 10:16	13°℣44'25	1°12'58				
max. Earth dist.	-11402 Mar 28 j 06:54	13°℣42'31	6.22293 AU				
morning rise	-11402 Apr 10 j 21:38	16°℣46'19					
	-11402 Jun 16 j 10:11	0°≈					
retrograde	-11402 Aug 11 j 13:58	4°≈45'12					
	-11402 Oct 08 j 08:03	30°℞℣					
opposition	-11402 Oct 09 j 18:24	29°℣48'34	-1°12'41				
min. Earth dist.	-11402 Oct 10 j 01:38	29°℣46'09	4.26050 AU				
direct	-11402 Dec 09 j 22:34	24°℣44'18					
	-11401 Feb 09 j 09:43	0°≈					
evening set	-11401 Apr 17 j 23:33	13°≈18'23					
	-11401 Apr 25 j 14:17	15°≈					
conjunction	-11401 May 01 j 07:11	16°≈16'26	-0°21'34				
minimum elong	-11401 May 01 j 07:13	16°≈16'27	0°22'03				
max. Earth dist.	-11401 Apr 30 j 13:51	16°≈06'45	6.29283 AU				
morning rise	-11401 May 14 j 11:13	19°≈12'39					
	-11401 Jul 06 j 06:36	0°✠					