

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

direct	-11900 Feb 17 j 20:19	13° $\mathbf{\text{H}}$ 57'41		conjunction	-11894 Jun 16 j 18:36	29° $\mathbf{\text{H}}$ 37'33	0°49'04
evening set	-11900 May 18 j 15:32	15° $\mathbf{\text{H}}$ 54'24		minimum elong	-11894 Jun 16 j 18:36	29° $\mathbf{\text{H}}$ 37'33	0°49'02
max. Earth dist.	-11900 Jun 02 j 07:05	16° $\mathbf{\text{H}}$ 27'07	31.20902 AU	max. Earth dist.	-11894 Jun 15 j 21:45	29° $\mathbf{\text{H}}$ 35'36	31.24096 AU
					-11894 Jun 26 j 17:39	0° $\mathbf{\text{Y}}$	
conjunction	-11900 Jun 03 j 06:17	16° $\mathbf{\text{H}}$ 29'18	0°12'05	morning rise	-11894 Jul 02 j 02:30	0° $\mathbf{\text{Y}}$ 11'55	
minimum elong	-11900 Jun 03 j 06:16	16° $\mathbf{\text{H}}$ 29'18	0°11'54	retrograde	-11894 Sep 26 j 13:33	2° $\mathbf{\text{Y}}$ 04'19	
behind sun begin	-11900 Jun 03 j 01:47	16° $\mathbf{\text{H}}$ 28'53		opposition	-11894 Dec 13 j 22:12	0° $\mathbf{\text{Y}}$ 42'26	0°55'32
behind sun end	-11900 Jun 03 j 10:46	16° $\mathbf{\text{H}}$ 29'42		min. Earth dist.	-11894 Dec 14 j 19:03	0° $\mathbf{\text{Y}}$ 41'01	29.24274 AU
morning rise	-11900 Jun 18 j 17:21	17° $\mathbf{\text{H}}$ 03'53			-11893 Jan 10 j 04:22	30° $\mathbf{\text{R}}$ $\mathbf{\text{H}}$	
retrograde	-11900 Sep 13 j 01:08	18° $\mathbf{\text{H}}$ 55'57		direct	-11893 Mar 05 j 08:48	29° $\mathbf{\text{H}}$ 17'41	
opposition	-11900 Nov 29 j 20:44	17° $\mathbf{\text{H}}$ 34'14	0°16'09		-11893 Apr 26 j 11:06	0° $\mathbf{\text{Y}}$	
min. Earth dist.	-11900 Nov 30 j 18:37	17° $\mathbf{\text{H}}$ 32'44	29.21365 AU	evening set	-11893 Jun 03 j 17:35	1° $\mathbf{\text{Y}}$ 13'51	
direct	-11899 Feb 19 j 09:58	16° $\mathbf{\text{H}}$ 09'15		max. Earth dist.	-11893 Jun 18 j 07:22	1° $\mathbf{\text{Y}}$ 46'29	31.24370 AU
evening set	-11899 May 21 j 02:24	18° $\mathbf{\text{H}}$ 05'56					
				conjunction	-11893 Jun 19 j 04:03	1° $\mathbf{\text{Y}}$ 48'26	0°55'01
conjunction	-11899 Jun 05 j 16:32	18° $\mathbf{\text{H}}$ 40'47	0°18'21	minimum elong	-11893 Jun 19 j 04:03	1° $\mathbf{\text{Y}}$ 48'26	0°55'00
minimum elong	-11899 Jun 05 j 16:32	18° $\mathbf{\text{H}}$ 40'47	0°18'11	morning rise	-11893 Jul 04 j 11:35	2° $\mathbf{\text{Y}}$ 22'46	
max. Earth dist.	-11899 Jun 04 j 17:14	18° $\mathbf{\text{H}}$ 38'36	31.21745 AU	retrograde	-11893 Sep 29 j 00:47	4° $\mathbf{\text{Y}}$ 15'12	
morning rise	-11899 Jun 21 j 03:06	19° $\mathbf{\text{H}}$ 15'21		opposition	-11893 Dec 16 j 10:30	2° $\mathbf{\text{Y}}$ 53'16	1°01'51
retrograde	-11899 Sep 15 j 11:30	21° $\mathbf{\text{H}}$ 07'29		min. Earth dist.	-11893 Dec 17 j 05:27	2° $\mathbf{\text{Y}}$ 51'59	29.24569 AU
opposition	-11899 Dec 02 j 08:54	19° $\mathbf{\text{H}}$ 45'47	0°22'50	direct	-11892 Mar 06 j 20:54	1° $\mathbf{\text{Y}}$ 28'33	
min. Earth dist.	-11899 Dec 03 j 07:12	19° $\mathbf{\text{H}}$ 44'15	29.22159 AU	evening set	-11892 Jun 05 j 03:43	3° $\mathbf{\text{Y}}$ 24'37	
direct	-11898 Feb 21 j 21:01	18° $\mathbf{\text{H}}$ 20'52					
evening set	-11898 May 23 j 13:09	20° $\mathbf{\text{H}}$ 17'30		conjunction	-11892 Jun 20 j 13:38	3° $\mathbf{\text{Y}}$ 59'09	1°00'53
max. Earth dist.	-11898 Jun 07 j 04:22	20° $\mathbf{\text{H}}$ 50'13	31.22466 AU	minimum elong	-11892 Jun 20 j 13:37	3° $\mathbf{\text{Y}}$ 59'09	1°00'54
				max. Earth dist.	-11892 Jun 19 j 18:05	3° $\mathbf{\text{Y}}$ 57'19	31.24684 AU
conjunction	-11898 Jun 08 j 02:46	20° $\mathbf{\text{H}}$ 52'19	0°24'35	morning rise	-11892 Jul 05 j 20:33	4° $\mathbf{\text{Y}}$ 33'26	
minimum elong	-11898 Jun 08 j 02:45	20° $\mathbf{\text{H}}$ 52'19	0°24'28	retrograde	-11892 Sep 30 j 11:17	6° $\mathbf{\text{Y}}$ 25'57	
morning rise	-11898 Jun 23 j 12:43	21° $\mathbf{\text{H}}$ 26'50		opposition	-11892 Dec 17 j 22:47	5° $\mathbf{\text{Y}}$ 03'57	1°08'05
retrograde	-11898 Sep 17 j 20:05	23° $\mathbf{\text{H}}$ 19'02		min. Earth dist.	-11892 Dec 18 j 17:54	5° $\mathbf{\text{Y}}$ 02'40	29.24939 AU
opposition	-11898 Dec 04 j 21:07	21° $\mathbf{\text{H}}$ 57'20	0°29'29	direct	-11891 Mar 09 j 09:26	3° $\mathbf{\text{Y}}$ 39'17	
min. Earth dist.	-11898 Dec 05 j 18:57	21° $\mathbf{\text{H}}$ 55'51	29.22801 AU	evening set	-11891 Jun 07 j 13:47	5° $\mathbf{\text{Y}}$ 35'17	
direct	-11897 Feb 24 j 10:25	20° $\mathbf{\text{H}}$ 32'30					
evening set	-11897 May 26 j 00:00	22° $\mathbf{\text{H}}$ 29'02		conjunction	-11891 Jun 22 j 23:05	6° $\mathbf{\text{Y}}$ 09'46	1°06'40
				minimum elong	-11891 Jun 22 j 23:05	6° $\mathbf{\text{Y}}$ 09'46	1°06'41
conjunction	-11897 Jun 10 j 12:52	23° $\mathbf{\text{H}}$ 03'49	0°30'47	max. Earth dist.	-11891 Jun 22 j 04:30	6° $\mathbf{\text{Y}}$ 08'01	31.25096 AU
minimum elong	-11897 Jun 10 j 12:52	23° $\mathbf{\text{H}}$ 03'49	0°30'40	morning rise	-11891 Jul 08 j 05:32	6° $\mathbf{\text{Y}}$ 44'01	
max. Earth dist.	-11897 Jun 09 j 13:44	23° $\mathbf{\text{H}}$ 01'39	31.23040 AU	retrograde	-11891 Oct 02 j 22:29	8° $\mathbf{\text{Y}}$ 36'36	
morning rise	-11897 Jun 25 j 22:26	23° $\mathbf{\text{H}}$ 38'18		opposition	-11891 Dec 20 j 11:04	7° $\mathbf{\text{Y}}$ 14'35	1°14'13
retrograde	-11897 Sep 20 j 06:57	25° $\mathbf{\text{H}}$ 30'33		min. Earth dist.	-11891 Dec 21 j 04:28	7° $\mathbf{\text{Y}}$ 13'24	29.25388 AU
opposition	-11897 Dec 07 j 09:24	24° $\mathbf{\text{H}}$ 08'50	0°36'06	direct	-11890 Mar 11 j 23:11	5° $\mathbf{\text{Y}}$ 49'59	
min. Earth dist.	-11897 Dec 08 j 06:50	24° $\mathbf{\text{H}}$ 07'22	29.23320 AU	evening set	-11890 Jun 09 j 23:46	7° $\mathbf{\text{Y}}$ 45'55	
direct	-11896 Feb 26 j 20:36	22° $\mathbf{\text{H}}$ 44'02					
evening set	-11896 May 27 j 10:27	24° $\mathbf{\text{H}}$ 40'29		conjunction	-11890 Jun 25 j 08:24	8° $\mathbf{\text{Y}}$ 20'21	1°12'21
				minimum elong	-11890 Jun 25 j 08:23	8° $\mathbf{\text{Y}}$ 20'21	1°12'25
conjunction	-11896 Jun 11 j 22:54	25° $\mathbf{\text{H}}$ 15'13	0°36'56	max. Earth dist.	-11890 Jun 24 j 14:20	8° $\mathbf{\text{Y}}$ 18'39	31.25579 AU
minimum elong	-11896 Jun 11 j 22:54	25° $\mathbf{\text{H}}$ 15'13	0°36'52	morning rise	-11890 Jul 10 j 14:22	8° $\mathbf{\text{Y}}$ 54'34	
max. Earth dist.	-11896 Jun 11 j 01:08	25° $\mathbf{\text{H}}$ 13'11	31.23487 AU	retrograde	-11890 Oct 05 j 08:54	10° $\mathbf{\text{Y}}$ 47'15	
morning rise	-11896 Jun 27 j 07:50	25° $\mathbf{\text{H}}$ 49'40		opposition	-11890 Dec 22 j 23:34	9° $\mathbf{\text{Y}}$ 25'14	1°20'14
retrograde	-11896 Sep 21 j 16:04	27° $\mathbf{\text{H}}$ 41'58		min. Earth dist.	-11890 Dec 23 j 16:40	9° $\mathbf{\text{Y}}$ 24'05	29.25918 AU
opposition	-11896 Dec 08 j 21:43	26° $\mathbf{\text{H}}$ 20'12	0°42'39	direct	-11889 Mar 14 j 10:07	8° $\mathbf{\text{Y}}$ 00'43	
min. Earth dist.	-11896 Dec 09 j 19:21	26° $\mathbf{\text{H}}$ 18'44	29.23702 AU	evening set	-11889 Jun 12 j 09:42	9° $\mathbf{\text{Y}}$ 56'35	
direct	-11895 Feb 28 j 09:06	24° $\mathbf{\text{H}}$ 55'26					
evening set	-11895 May 29 j 21:04	26° $\mathbf{\text{H}}$ 51'48		conjunction	-11889 Jun 27 j 17:49	10° $\mathbf{\text{Y}}$ 30'59	1°17'56
max. Earth dist.	-11895 Jun 13 j 10:21	27° $\mathbf{\text{H}}$ 24'22	31.23825 AU	minimum elong	-11889 Jun 27 j 17:48	10° $\mathbf{\text{Y}}$ 30'59	1°18'01
				max. Earth dist.	-11889 Jun 27 j 01:25	10° $\mathbf{\text{Y}}$ 29'26	31.26127 AU
conjunction	-11895 Jun 14 j 08:45	27° $\mathbf{\text{H}}$ 26'29	0°43'02	morning rise	-11889 Jul 12 j 23:12	11° $\mathbf{\text{Y}}$ 05'10	
minimum elong	-11895 Jun 14 j 08:44	27° $\mathbf{\text{H}}$ 26'29	0°42'58	retrograde	-11889 Oct 07 j 17:57	12° $\mathbf{\text{Y}}$ 57'58	
morning rise	-11895 Jun 29 j 17:19	28° $\mathbf{\text{H}}$ 00'54		opposition	-11889 Dec 25 j 12:03	11° $\mathbf{\text{Y}}$ 35'57	1°26'09
retrograde	-11895 Sep 24 j 03:29	29° $\mathbf{\text{H}}$ 53'13		min. Earth dist.	-11889 Dec 26 j 04:05	11° $\mathbf{\text{Y}}$ 34'52	29.26472 AU
opposition	-11895 Dec 11 j 09:46	28° $\mathbf{\text{H}}$ 31'25	0°49'08	direct	-11888 Mar 15 j 23:13	10° $\mathbf{\text{Y}}$ 11'31	
min. Earth dist.	-11895 Dec 12 j 06:18	28° $\mathbf{\text{H}}$ 30'01	29.24007 AU	evening set	-11888 Jun 13 j 19:37	12° $\mathbf{\text{Y}}$ 07'20	
direct	-11894 Mar 02 j 20:46	27° $\mathbf{\text{H}}$ 06'39		max. Earth dist.	-11888 Jun 28 j 10:22	12° $\mathbf{\text{Y}}$ 40'08	31.26670 AU
evening set	-11894 Jun 01 j 07:23	29° $\mathbf{\text{H}}$ 02'55					
				conjunction	-11888 Jun 29 j 03:00	12° $\mathbf{\text{Y}}$ 41'42	1°23'24

Attention, astronomical year style is used: The year -11888 in astronomical counting style is the year 11889 BCE in historical counting style.

minimum elong	-11888 Jun 29 j 02:59	12° Υ 41'42	1°23'32	conjunction	-11881 Jul 14 j 19:31	27° Υ 57'32	1°57'55
morning rise	-11888 Jul 14 j 08:04	13° Υ 15'51		minimum elong	-11881 Jul 14 j 19:30	27° Υ 57'32	1°58'12
retrograde	-11888 Oct 09 j 05:15	15° Υ 08'46		max. Earth dist.	-11881 Jul 14 j 07:47	27° Υ 56'25	31.27511 AU
opposition	-11888 Dec 27 j 00:35	13° Υ 46'45	1°31'56	morning rise	-11881 Jul 29 j 21:29	28° Υ 31'28	
min. Earth dist.	-11888 Dec 27 j 15:51	13° Υ 45'44	29.27006 AU		-11881 Sep 16 j 09:16	0° \mathcal{B}	
direct	-11887 Mar 18 j 09:36	12° Υ 22'25		retrograde	-11881 Oct 25 j 10:05	0° \mathcal{B} 25'14	
evening set	-11887 Jun 16 j 05:30	14° Υ 18'11			-11881 Dec 04 j 18:09	30° \mathcal{R} Υ	
				opposition	-11880 Jan 12 j 17:57	29° Υ 02'51	2°08'17
conjunction	-11887 Jul 01 j 12:26	14° Υ 52'30	1°28'45	min. Earth dist.	-11880 Jan 13 j 04:52	29° Υ 02'07	29.27574 AU
minimum elong	-11887 Jul 01 j 12:25	14° Υ 52'30	1°28'54	direct	-11880 Apr 02 j 20:23	27° Υ 38'51	
max. Earth dist.	-11887 Jun 30 j 21:27	14° Υ 51'05	31.27152 AU	evening set	-11880 Jul 01 j 01:21	29° Υ 34'02	
morning rise	-11887 Jul 16 j 16:50	15° Υ 26'38			-11880 Jul 12 j 15:14	0° \mathcal{B}	
retrograde	-11887 Oct 11 j 14:39	17° Υ 19'41					
opposition	-11887 Dec 29 j 13:12	15° Υ 57'40	1°37'35	conjunction	-11880 Jul 16 j 04:26	0° \mathcal{B} 08'04	2°02'13
min. Earth dist.	-11887 Dec 30 j 04:26	15° Υ 56'38	29.27440 AU	minimum elong	-11880 Jul 16 j 04:25	0° \mathcal{B} 08'03	2°02'33
direct	-11886 Mar 20 j 21:53	14° Υ 33'25		max. Earth dist.	-11880 Jul 15 j 18:40	0° \mathcal{B} 07'08	31.27367 AU
evening set	-11886 Jun 18 j 15:33	16° Υ 29'07		morning rise	-11880 Jul 31 j 05:56	0° \mathcal{B} 41'59	
				retrograde	-11880 Oct 26 j 19:06	2° \mathcal{B} 35'51	
conjunction	-11886 Jul 03 j 21:43	17° Υ 03'23	1°33'59	opposition	-11879 Jan 14 j 06:42	1° \mathcal{B} 13'23	2°12'47
minimum elong	-11886 Jul 03 j 21:42	17° Υ 03'23	1°34'09	min. Earth dist.	-11879 Jan 14 j 16:11	1° \mathcal{B} 12'45	29.27461 AU
max. Earth dist.	-11886 Jul 03 j 06:20	17° Υ 01'56	31.27528 AU		-11879 Mar 10 j 08:37	30° \mathcal{R} Υ	
morning rise	-11886 Jul 19 j 01:47	17° Υ 37'29		direct	-11879 Apr 05 j 10:06	29° Υ 49'26	
retrograde	-11886 Oct 14 j 02:26	19° Υ 30'40			-11879 Apr 30 j 19:29	0° \mathcal{B}	
opposition	-11885 Jan 01 j 01:56	18° Υ 08'38	1°43'06	evening set	-11879 Jul 03 j 10:48	1° \mathcal{B} 44'32	
min. Earth dist.	-11885 Jan 01 j 15:50	18° Υ 07'41	29.27763 AU				
direct	-11885 Mar 23 j 08:39	16° Υ 44'27		conjunction	-11879 Jul 18 j 13:12	2° \mathcal{B} 18'31	2°06'20
evening set	-11885 Jun 21 j 01:18	18° Υ 40'05		minimum elong	-11879 Jul 18 j 13:11	2° \mathcal{B} 18'31	2°06'40
				max. Earth dist.	-11879 Jul 18 j 03:31	2° \mathcal{B} 17'36	31.27289 AU
conjunction	-11885 Jul 06 j 07:02	19° Υ 14'19	1°39'04	morning rise	-11879 Aug 02 j 14:28	2° \mathcal{B} 52'24	
minimum elong	-11885 Jul 06 j 07:01	19° Υ 14'19	1°39'15	retrograde	-11879 Oct 29 j 06:25	4° \mathcal{B} 46'24	
max. Earth dist.	-11885 Jul 05 j 17:05	19° Υ 13'00	31.27764 AU	opposition	-11878 Jan 16 j 19:25	3° \mathcal{B} 23'53	2°17'06
morning rise	-11885 Jul 21 j 10:30	19° Υ 48'23		min. Earth dist.	-11878 Jan 17 j 03:32	3° \mathcal{B} 23'21	29.27449 AU
retrograde	-11885 Oct 16 j 12:55	21° Υ 41'42		direct	-11878 Apr 07 j 21:03	1° \mathcal{B} 59'59	
opposition	-11884 Jan 03 j 14:52	20° Υ 19'37	1°48'28	evening set	-11878 Jul 05 j 20:02	3° \mathcal{B} 55'01	
min. Earth dist.	-11884 Jan 04 j 05:10	20° Υ 18'39	29.27935 AU				
direct	-11884 Mar 24 j 19:48	18° Υ 55'30		conjunction	-11878 Jul 20 j 22:09	4° \mathcal{B} 28'58	2°10'17
evening set	-11884 Jun 22 j 11:14	20° Υ 51'03		minimum elong	-11878 Jul 20 j 22:08	4° \mathcal{B} 28'58	2°10'39
				max. Earth dist.	-11878 Jul 20 j 14:42	4° \mathcal{B} 28'16	31.27317 AU
conjunction	-11884 Jul 07 j 16:18	21° Υ 25'14	1°44'01	morning rise	-11878 Aug 04 j 22:55	5° \mathcal{B} 02'50	
minimum elong	-11884 Jul 07 j 16:17	21° Υ 25'14	1°44'14	retrograde	-11878 Oct 31 j 15:49	6° \mathcal{B} 56'59	
max. Earth dist.	-11884 Jul 07 j 02:21	21° Υ 23'55	31.27863 AU	opposition	-11877 Jan 19 j 08:22	5° \mathcal{B} 34'26	2°21'13
morning rise	-11884 Jul 22 j 19:28	21° Υ 59'17		min. Earth dist.	-11877 Jan 19 j 15:42	5° \mathcal{B} 33'56	29.27529 AU
retrograde	-11884 Oct 18 j 00:36	23° Υ 52'43		direct	-11877 Apr 10 j 09:18	4° \mathcal{B} 10'37	
opposition	-11883 Jan 05 j 03:26	22° Υ 30'34	1°53'41	evening set	-11877 Jul 08 j 05:17	6° \mathcal{B} 05'33	
min. Earth dist.	-11883 Jan 05 j 16:06	22° Υ 29'43	29.27969 AU				
direct	-11883 Mar 27 j 07:21	21° Υ 06'29		conjunction	-11877 Jul 23 j 06:49	6° \mathcal{B} 39'28	2°14'02
evening set	-11883 Jun 24 j 20:58	23° Υ 01'58		minimum elong	-11877 Jul 23 j 06:48	6° \mathcal{B} 39'28	2°14'25
				max. Earth dist.	-11877 Jul 22 j 23:40	6° \mathcal{B} 38'48	31.27441 AU
conjunction	-11883 Jul 10 j 01:33	23° Υ 36'07	1°48'49	morning rise	-11877 Aug 07 j 07:29	7° \mathcal{B} 13'20	
minimum elong	-11883 Jul 10 j 01:31	23° Υ 36'07	1°49'03	retrograde	-11877 Nov 03 j 03:06	9° \mathcal{B} 07'38	
max. Earth dist.	-11883 Jul 09 j 12:18	23° Υ 34'52	31.27819 AU	opposition	-11876 Jan 21 j 21:13	7° \mathcal{B} 45'03	2°25'08
morning rise	-11883 Jul 25 j 04:14	24° Υ 10'07		min. Earth dist.	-11876 Jan 22 j 02:41	7° \mathcal{B} 44'41	29.27692 AU
retrograde	-11883 Oct 20 j 11:50	26° Υ 03'40		direct	-11876 Apr 11 j 19:29	6° \mathcal{B} 21'19	
opposition	-11882 Jan 07 j 16:19	24° Υ 41'27	1°58'43	evening set	-11876 Jul 09 j 14:31	8° \mathcal{B} 16'12	
min. Earth dist.	-11882 Jan 08 j 05:19	24° Υ 40'34	29.27884 AU				
direct	-11882 Mar 29 j 19:45	23° Υ 17'24		conjunction	-11876 Jul 24 j 15:45	8° \mathcal{B} 50'06	2°17'36
evening set	-11882 Jun 27 j 06:30	25° Υ 12'47		minimum elong	-11876 Jul 24 j 15:44	8° \mathcal{B} 50'06	2°18'01
				max. Earth dist.	-11876 Jul 24 j 10:23	8° \mathcal{B} 49'35	31.27606 AU
conjunction	-11882 Jul 12 j 10:33	25° Υ 46'53	1°53'27	morning rise	-11876 Aug 08 j 16:02	9° \mathcal{B} 23'56	
minimum elong	-11882 Jul 12 j 10:32	25° Υ 46'53	1°53'44	retrograde	-11876 Nov 04 j 13:30	11° \mathcal{B} 18'24	
max. Earth dist.	-11882 Jul 11 j 22:24	25° Υ 45'44	31.27689 AU	opposition	-11875 Jan 23 j 10:04	9° \mathcal{B} 55'48	2°28'51
morning rise	-11882 Jul 27 j 12:50	26° Υ 20'51		min. Earth dist.	-11875 Jan 23 j 15:35	9° \mathcal{B} 55'26	29.27871 AU
retrograde	-11882 Oct 22 j 23:27	28° Υ 14'30		direct	-11875 Apr 14 j 05:32	8° \mathcal{B} 32'09	
opposition	-11881 Jan 10 j 05:08	26° Υ 52'12	2°03'36	evening set	-11875 Jul 11 j 23:50	10° \mathcal{B} 26'59	
min. Earth dist.	-11881 Jan 10 j 16:26	26° Υ 51'27	29.27725 AU				
direct	-11881 Apr 01 j 09:26	25° Υ 28'11		conjunction	-11875 Jul 27 j 00:37	11° \mathcal{B} 00'51	2°20'59
evening set	-11881 Jun 29 j 16:04	27° Υ 23'28		minimum elong	-11875 Jul 27 j 00:36	11° \mathcal{B} 00'51	2°21'24

Attention, astronomical year style is used: The year -11875 in astronomical counting style is the year 11876 BCE in historical counting style.

max. Earth dist.	-11875 Jul 26 j 19:47	11° 8 00'23	31.27775 AU	min. Earth dist.	-11868 Feb 09 j 05:08	25° 8 12'33	29.26623 AU
morning rise	-11875 Aug 11 j 00:42	11° 8 34'41		direct	-11868 Apr 29 j 16:36	23° 8 49'11	
retrograde	-11875 Nov 07 j 01:39	13° 8 29'18		evening set	-11868 Jul 26 j 16:23	25° 8 43'22	
opposition	-11874 Jan 25 j 22:59	12° 8 06'41	2°32'20				
min. Earth dist.	-11874 Jan 26 j 02:31	12° 8 06'26	29.28019 AU	conjunction	-11868 Aug 10 j 15:14	26° 8 17'06	2°38'42
direct	-11874 Apr 16 j 16:28	10° 8 43'07		minimum elong	-11868 Aug 10 j 15:14	26° 8 17'06	2°39'15
evening set	-11874 Jul 14 j 09:04	12° 8 37'53		max. Earth dist.	-11868 Aug 10 j 16:00	26° 8 17'10	31.26166 AU
				morning rise	-11868 Aug 25 j 14:29	26° 8 50'52	
conjunction	-11874 Jul 29 j 09:27	13° 8 11'43	2°24'09	retrograde	-11868 Nov 22 j 09:15	28° 8 46'24	
minimum elong	-11874 Jul 29 j 09:26	13° 8 11'43	2°24'36	opposition	-11867 Feb 10 j 18:34	27° 8 23'15	2°50'29
max. Earth dist.	-11874 Jul 29 j 05:28	13° 8 11'20	31.27873 AU	min. Earth dist.	-11867 Feb 10 j 16:11	27° 8 23'24	29.26171 AU
morning rise	-11874 Aug 13 j 09:17	13° 8 45'32		direct	-11867 May 02 j 03:26	25° 8 59'56	
	-11874 Sep 20 j 17:38	15° 8		evening set	-11867 Jul 29 j 01:23	27° 8 54'01	
retrograde	-11874 Nov 09 j 13:49	15° 8 40'20					
	-11874 Dec 31 j 23:20	15° 8		conjunction	-11867 Aug 13 j 00:10	28° 8 27'44	2°40'21
opposition	-11873 Jan 28 j 12:13	14° 8 17'39	2°35'37	minimum elong	-11867 Aug 13 j 00:09	28° 8 27'44	2°40'54
min. Earth dist.	-11873 Jan 28 j 15:55	14° 8 17'24	29.28088 AU	max. Earth dist.	-11867 Aug 13 j 02:40	28° 8 27'58	31.25726 AU
direct	-11873 Apr 19 j 03:40	12° 8 54'11		morning rise	-11867 Aug 27 j 23:18	29° 8 01'31	
evening set	-11873 Jul 16 j 18:24	14° 8 48'52			-11867 Sep 25 j 17:09	0° II	
	-11873 Jul 21 j 18:16	15° 8		retrograde	-11867 Nov 24 j 19:32	0° II 57'10	
					-11866 Jan 27 j 22:01	30° 8	
conjunction	-11873 Jul 31 j 18:30	15° 8 22'41	2°27'06	opposition	-11866 Feb 13 j 07:43	29° 8 33'56	2°52'08
minimum elong	-11873 Jul 31 j 18:29	15° 8 22'41	2°27'34	min. Earth dist.	-11866 Feb 13 j 05:01	29° 8 34'07	29.25780 AU
max. Earth dist.	-11873 Jul 31 j 15:40	15° 8 22'25	31.27881 AU	direct	-11866 May 04 j 13:57	28° 8 10'40	
morning rise	-11873 Aug 15 j 18:05	15° 8 56'29			-11866 Jul 29 j 07:31	0° II	
retrograde	-11873 Nov 12 j 02:10	17° 8 51'25		evening set	-11866 Jul 31 j 10:17	0° II 04'40	
opposition	-11872 Jan 31 j 01:12	16° 8 28'42	2°38'41				
min. Earth dist.	-11872 Jan 31 j 03:20	16° 8 28'33	29.28035 AU	conjunction	-11866 Aug 15 j 08:55	0° II 38'22	2°41'46
direct	-11872 Apr 20 j 15:56	15° 8 05'16		minimum elong	-11866 Aug 15 j 08:55	0° II 38'22	2°42'21
evening set	-11872 Jul 18 j 03:47	16° 8 59'53		max. Earth dist.	-11866 Aug 15 j 12:29	0° II 38'42	31.25384 AU
				morning rise	-11866 Aug 30 j 08:08	1° II 12'09	
conjunction	-11872 Aug 02 j 03:30	17° 8 33'41	2°29'52	retrograde	-11866 Nov 27 j 07:37	3° II 07'57	
minimum elong	-11872 Aug 02 j 03:29	17° 8 33'41	2°30'21	opposition	-11865 Feb 15 j 20:45	1° II 44'40	2°53'32
max. Earth dist.	-11872 Aug 02 j 00:38	17° 8 33'25	31.27751 AU	min. Earth dist.	-11865 Feb 15 j 15:39	1° II 45'01	29.25485 AU
morning rise	-11872 Aug 17 j 03:02	18° 8 07'29		direct	-11865 May 07 j 00:49	0° II 21'27	
retrograde	-11872 Nov 13 j 13:54	20° 8 02'33		evening set	-11865 Aug 02 j 19:17	2° II 15'23	
opposition	-11871 Feb 01 j 14:21	18° 8 39'46	2°41'30				
min. Earth dist.	-11871 Feb 01 j 16:24	18° 8 39'37	29.27849 AU	conjunction	-11865 Aug 17 j 17:51	2° II 49'05	2°42'57
direct	-11871 Apr 23 j 02:37	17° 8 16'22		minimum elong	-11865 Aug 17 j 17:50	2° II 49'05	2°43'32
evening set	-11871 Jul 20 j 12:58	19° 8 10'54		max. Earth dist.	-11865 Aug 17 j 22:23	2° II 49'31	31.25125 AU
				morning rise	-11865 Sep 01 j 17:11	3° II 22'53	
conjunction	-11871 Aug 04 j 12:32	19° 8 44'40	2°32'24	retrograde	-11865 Nov 29 j 19:56	5° II 18'51	
minimum elong	-11871 Aug 04 j 12:31	19° 8 44'40	2°32'54	opposition	-11864 Feb 18 j 09:48	3° II 55'31	2°54'40
max. Earth dist.	-11871 Aug 04 j 11:20	19° 8 44'33	31.27484 AU	min. Earth dist.	-11864 Feb 18 j 04:33	3° II 55'52	29.25278 AU
morning rise	-11871 Aug 19 j 11:47	20° 8 18'27		direct	-11864 May 08 j 10:51	2° II 32'23	
retrograde	-11871 Nov 16 j 00:17	22° 8 13'38		evening set	-11864 Aug 04 j 04:12	4° II 26'15	
opposition	-11870 Feb 04 j 03:25	20° 8 50'46	2°44'07				
min. Earth dist.	-11870 Feb 04 j 04:23	20° 8 50'42	29.27515 AU	conjunction	-11864 Aug 19 j 02:51	4° II 59'57	2°43'54
direct	-11870 Apr 25 j 16:32	19° 8 27'25		minimum elong	-11864 Aug 19 j 02:50	4° II 59'57	2°44'31
evening set	-11870 Jul 22 j 22:16	21° 8 21'50		max. Earth dist.	-11864 Aug 19 j 09:03	5° II 00'32	31.24947 AU
				morning rise	-11864 Sep 03 j 02:14	5° II 33'46	
conjunction	-11870 Aug 06 j 21:27	21° 8 55'35	2°34'43	retrograde	-11864 Dec 01 j 08:40	7° II 29'53	
minimum elong	-11870 Aug 06 j 21:26	21° 8 55'35	2°35'15	opposition	-11863 Feb 19 j 22:48	6° II 06'32	2°55'34
max. Earth dist.	-11870 Aug 06 j 19:59	21° 8 55'26	31.27100 AU	min. Earth dist.	-11863 Feb 19 j 15:38	6° II 07'01	29.25109 AU
morning rise	-11870 Aug 21 j 20:47	22° 8 29'22		direct	-11863 May 10 j 21:59	4° II 43'29	
retrograde	-11870 Nov 18 j 12:43	24° 8 24'40		evening set	-11863 Aug 06 j 13:14	6° II 37'18	
opposition	-11869 Feb 06 j 16:35	23° 8 01'42	2°46'29				
min. Earth dist.	-11869 Feb 06 j 16:32	23° 8 01'42	29.27099 AU	conjunction	-11863 Aug 21 j 11:43	7° II 11'01	2°44'37
direct	-11869 Apr 28 j 04:00	21° 8 38'21		minimum elong	-11863 Aug 21 j 11:42	7° II 11'01	2°45'14
evening set	-11869 Jul 25 j 07:14	23° 8 32'39		max. Earth dist.	-11863 Aug 21 j 18:11	7° II 11'38	31.24780 AU
				morning rise	-11863 Sep 05 j 11:21	7° II 44'51	
conjunction	-11869 Aug 09 j 06:24	24° 8 06'23	2°36'49	retrograde	-11863 Dec 03 j 21:17	9° II 41'08	
minimum elong	-11869 Aug 09 j 06:23	24° 8 06'23	2°37'21	opposition	-11862 Feb 22 j 12:00	8° II 17'46	2°56'12
max. Earth dist.	-11869 Aug 09 j 06:54	24° 8 06'26	31.26640 AU	min. Earth dist.	-11862 Feb 22 j 04:32	8° II 18'16	29.24945 AU
morning rise	-11869 Aug 24 j 05:32	24° 8 40'10		direct	-11862 May 13 j 07:50	6° II 54'48	
retrograde	-11869 Nov 20 j 22:07	26° 8 35'35		evening set	-11862 Aug 08 j 22:15	8° II 48'34	
opposition	-11868 Feb 09 j 05:43	25° 8 12'31	2°48'36				

Attention, astronomical year style is used: The year -11862 in astronomical counting style is the year 11863 BCE in historical counting style.

conjunction	-11862 Aug 23 j 20:56	9°II22'17	2°45'06	direct	-11855 May 28 j 16:25	22°II16'15	
minimum elong	-11862 Aug 23 j 20:56	9°II22'17	2°45'44	evening set	-11855 Aug 23 j 14:22	24°II09'22	
max. Earth dist.	-11862 Aug 24 j 05:19	9°II23'04	31.24593 AU				
morning rise	-11862 Sep 07 j 20:36	9°II56'08		conjunction	-11855 Sep 07 j 14:24	24°II43'11	2°41'47
retrograde	-11862 Dec 06 j 09:19	11°II52'34		minimum elong	-11855 Sep 07 j 14:24	24°II43'11	2°42'27
opposition	-11861 Feb 25 j 01:10	10°II29'11	2°56'35	max. Earth dist.	-11855 Sep 08 j 03:53	24°II44'28	31.20242 AU
min. Earth dist.	-11861 Feb 24 j 16:33	10°II29'45	29.24723 AU	morning rise	-11855 Sep 22 j 16:23	25°II17'14	
direct	-11861 May 15 j 21:02	9°II06'18		retrograde	-11855 Dec 21 j 19:22	27°II14'25	
evening set	-11861 Aug 11 j 07:27	11°II00'00		opposition	-11854 Mar 12 j 20:49	25°II50'27	2°52'11
				min. Earth dist.	-11854 Mar 12 j 06:33	25°II51'25	29.20080 AU
conjunction	-11861 Aug 26 j 06:03	11°II33'44	2°45'20	direct	-11854 May 31 j 03:20	24°II27'39	
minimum elong	-11861 Aug 26 j 06:03	11°II33'44	2°45'58	evening set	-11854 Aug 25 j 23:34	26°II20'40	
max. Earth dist.	-11861 Aug 26 j 14:07	11°II34'30	31.24328 AU				
morning rise	-11861 Sep 10 j 06:07	12°II07'36		conjunction	-11854 Sep 09 j 23:46	26°II54'31	2°40'23
retrograde	-11861 Dec 08 j 23:20	14°II04'12		minimum elong	-11854 Sep 09 j 23:47	26°II54'31	2°41'04
opposition	-11860 Feb 27 j 14:22	12°II40'46	2°56'43	max. Earth dist.	-11854 Sep 10 j 13:27	26°II55'49	31.19450 AU
min. Earth dist.	-11860 Feb 27 j 04:57	12°II41'24	29.24408 AU	morning rise	-11854 Sep 25 j 02:23	27°II28'36	
direct	-11860 May 17 j 08:09	11°II17'56		retrograde	-11854 Dec 24 j 08:21	29°II25'52	
evening set	-11860 Aug 12 j 16:39	13°II11'35		opposition	-11853 Mar 15 j 09:47	28°II01'48	2°50'32
				min. Earth dist.	-11853 Mar 14 j 19:09	28°II02'48	29.19340 AU
conjunction	-11860 Aug 27 j 15:31	13°II45'19	2°45'20	direct	-11853 Jun 02 j 13:11	26°II39'01	
minimum elong	-11860 Aug 27 j 15:31	13°II45'19	2°45'59	evening set	-11853 Aug 28 j 08:34	28°II31'57	
max. Earth dist.	-11860 Aug 28 j 01:08	13°II46'14	31.23936 AU				
morning rise	-11860 Sep 11 j 15:40	14°II19'13		conjunction	-11853 Sep 12 j 09:21	29°II05'50	2°38'44
retrograde	-11860 Dec 10 j 09:31	16°II15'56		minimum elong	-11853 Sep 12 j 09:21	29°II05'50	2°39'24
opposition	-11859 Mar 01 j 03:28	14°II52'27	2°56'35	max. Earth dist.	-11853 Sep 13 j 01:06	29°II07'19	31.18757 AU
min. Earth dist.	-11859 Feb 28 j 17:53	14°II53'06	29.23943 AU	morning rise	-11853 Sep 27 j 12:19	29°II39'57	
direct	-11859 May 19 j 20:15	13°II29'41			-11853 Oct 06 j 17:53	0°☾	
evening set	-11859 Aug 15 j 01:58	15°II23'14		retrograde	-11853 Dec 26 j 20:45	1°☾37'18	
				opposition	-11852 Mar 16 j 22:39	0°☾13'11	2°48'39
conjunction	-11859 Aug 30 j 00:52	15°II57'00	2°45'06	min. Earth dist.	-11852 Mar 16 j 06:38	0°☾14'16	29.18680 AU
minimum elong	-11859 Aug 30 j 00:52	15°II57'00	2°45'44		-11852 Mar 25 j 01:44	30°☾II	
max. Earth dist.	-11859 Aug 30 j 10:22	15°II57'54	31.23408 AU	direct	-11852 Jun 04 j 01:39	28°II50'25	
morning rise	-11859 Sep 14 j 01:25	16°II30'55			-11852 Aug 09 j 01:32	0°☾	
retrograde	-11859 Dec 12 j 21:25	18°II27'45		evening set	-11852 Aug 29 j 17:49	0°☾43'17	
opposition	-11858 Mar 03 j 16:39	17°II04'12	2°56'12				
min. Earth dist.	-11858 Mar 03 j 05:42	17°II04'56	29.23340 AU	conjunction	-11852 Sep 13 j 18:50	1°☾17'12	2°36'51
direct	-11858 May 22 j 07:47	15°II41'26		minimum elong	-11852 Sep 13 j 18:51	1°☾17'12	2°37'32
evening set	-11858 Aug 17 j 11:03	17°II34'53		max. Earth dist.	-11852 Sep 14 j 10:29	1°☾18'41	31.18146 AU
				morning rise	-11852 Sep 28 j 22:29	1°☾51'21	
conjunction	-11858 Sep 01 j 10:13	18°II08'40	2°44'37	retrograde	-11852 Dec 28 j 10:51	3°☾48'49	
minimum elong	-11858 Sep 01 j 10:13	18°II08'40	2°45'17	opposition	-11851 Mar 19 j 11:25	2°☾24'39	2°46'31
max. Earth dist.	-11858 Sep 01 j 20:52	18°II09'41	31.22729 AU	min. Earth dist.	-11851 Mar 18 j 18:26	2°☾25'48	29.18104 AU
morning rise	-11858 Sep 16 j 11:04	18°II42'37		direct	-11851 Jun 06 j 11:54	1°☾01'55	
retrograde	-11858 Dec 15 j 08:23	20°II39'34		evening set	-11851 Sep 01 j 02:56	2°☾54'44	
opposition	-11857 Mar 06 j 05:57	19°II15'55	2°55'34				
min. Earth dist.	-11857 Mar 05 j 19:17	19°II16'38	29.22598 AU	conjunction	-11851 Sep 16 j 04:32	3°☾28'41	2°34'44
direct	-11857 May 24 j 19:03	17°II53'09		minimum elong	-11851 Sep 16 j 04:32	3°☾28'41	2°35'25
evening set	-11857 Aug 19 j 20:15	19°II46'29		max. Earth dist.	-11851 Sep 16 j 22:01	3°☾30'20	31.17596 AU
				morning rise	-11851 Oct 01 j 08:36	4°☾02'54	
conjunction	-11857 Sep 03 j 19:41	20°II20'17	2°43'55	retrograde	-11851 Dec 30 j 21:58	6°☾00'28	
minimum elong	-11857 Sep 03 j 19:41	20°II20'17	2°44'34	min. Earth dist.	-11850 Mar 21 j 06:54	4°☾37'27	29.17562 AU
max. Earth dist.	-11857 Sep 04 j 06:58	20°II21'21	31.21946 AU	opposition	-11850 Mar 22 j 00:22	4°☾36'16	2°44'09
morning rise	-11857 Sep 18 j 20:54	20°II54'16		direct	-11850 Jun 08 j 23:30	3°☾13'35	
retrograde	-11857 Dec 17 j 20:04	22°II51'17		evening set	-11850 Sep 03 j 12:10	5°☾06'20	
opposition	-11856 Mar 07 j 18:49	21°II27'32	2°54'42				
min. Earth dist.	-11856 Mar 07 j 06:21	21°II28'22	29.21770 AU	conjunction	-11850 Sep 18 j 14:10	5°☾40'20	2°32'24
direct	-11856 May 26 j 06:25	20°II04'45		minimum elong	-11850 Sep 18 j 14:10	5°☾40'20	2°33'05
evening set	-11856 Aug 21 j 05:24	21°II57'59		max. Earth dist.	-11850 Sep 19 j 07:53	5°☾42'00	31.17075 AU
				morning rise	-11850 Oct 03 j 18:56	6°☾14'36	
conjunction	-11856 Sep 05 j 05:02	22°II31'47	2°42'58	retrograde	-11849 Jan 02 j 11:21	8°☾12'16	
minimum elong	-11856 Sep 05 j 05:02	22°II31'47	2°43'39	opposition	-11849 Mar 24 j 13:14	6°☾48'02	2°41'31
max. Earth dist.	-11856 Sep 05 j 16:48	22°II32'54	31.21088 AU	min. Earth dist.	-11849 Mar 23 j 18:28	6°☾49'19	29.17026 AU
morning rise	-11856 Sep 20 j 06:44	23°II05'48		direct	-11849 Jun 11 j 10:49	5°☾25'25	
retrograde	-11856 Dec 19 j 07:32	25°II02'54		evening set	-11849 Sep 05 j 21:37	7°☾18'07	
opposition	-11855 Mar 10 j 07:54	23°II39'02	2°53'33				
min. Earth dist.	-11855 Mar 09 j 19:34	23°II39'52	29.20911 AU	conjunction	-11849 Sep 21 j 00:07	7°☾52'09	2°29'50

Attention, astronomical year style is used: The year -11849 in astronomical counting style is the year 11850 BCE in historical counting style.

minimum elong	-11849 Sep 21 j 00:08	7° $\overline{52}$ '09	2°30'30	evening set	-11842 Sep 20 j 16:52	22° $\overline{42}$ '46	
max. Earth dist.	-11849 Sep 21 j 18:49	7° $\overline{53}$ '55	31.16512 AU				
morning rise	-11849 Oct 06 j 05:29	8° $\overline{26}$ '28		conjunction	-11842 Oct 05 j 23:41	23° $\overline{17}$ '09	2°06'00
retrograde	-11848 Jan 04 j 23:16	10° $\overline{24}$ '15		minimum elong	-11842 Oct 05 j 23:42	23° $\overline{17}$ '09	2°06'38
min. Earth dist.	-11848 Mar 25 j 07:45	9° $\overline{01}$ '14	29.16429 AU	max. Earth dist.	-11842 Oct 06 j 22:23	23° $\overline{19}$ '17	31.10132 AU
opposition	-11848 Mar 26 j 02:03	9° $\overline{00}$ '00	2°38'40	morning rise	-11842 Oct 21 j 09:56	23° $\overline{51}$ '51	
direct	-11848 Jun 12 j 21:38	7° $\overline{37}$ '25		retrograde	-11841 Jan 20 j 15:03	25° $\overline{50}$ '05	
evening set	-11848 Sep 07 j 07:07	9° $\overline{30}$ '04		opposition	-11841 Apr 11 j 18:55	24° $\overline{25}$ '18	2°12'27
				min. Earth dist.	-11841 Apr 10 j 20:52	24° $\overline{26}$ '49	29.09828 AU
conjunction	-11848 Sep 22 j 10:12	10° $\overline{04}$ '09	2°27'03	direct	-11841 Jun 29 j 00:58	23° $\overline{02}$ '38	
minimum elong	-11848 Sep 22 j 10:13	10° $\overline{04}$ '09	2°27'44	evening set	-11841 Sep 23 j 02:42	24° $\overline{54}$ '48	
max. Earth dist.	-11848 Sep 23 j 05:25	10° $\overline{05}$ '58	31.15884 AU				
morning rise	-11848 Oct 07 j 16:10	10° $\overline{38}$ '31		conjunction	-11841 Oct 08 j 10:09	25° $\overline{29}$ '13	2°01'50
retrograde	-11847 Jan 06 j 11:36	12° $\overline{36}$ '24		minimum elong	-11841 Oct 08 j 10:10	25° $\overline{29}$ '13	2°02'26
opposition	-11847 Mar 28 j 14:51	11° $\overline{12}$ '07	2°35'34	max. Earth dist.	-11841 Oct 09 j 09:01	25° $\overline{31}$ '23	31.09225 AU
min. Earth dist.	-11847 Mar 27 j 19:03	11° $\overline{13}$ '27	29.15738 AU	morning rise	-11841 Oct 23 j 21:14	26° $\overline{03}$ '59	
direct	-11847 Jun 15 j 08:47	9° $\overline{49}$ '33		retrograde	-11840 Jan 23 j 05:14	28° $\overline{02}$ '15	
evening set	-11847 Sep 09 j 16:40	11° $\overline{42}$ '09		min. Earth dist.	-11840 Apr 12 j 07:46	26° $\overline{39}$ '01	29.08972 AU
				opposition	-11840 Apr 13 j 07:08	26° $\overline{37}$ '25	2°07'53
conjunction	-11847 Sep 24 j 20:11	12° $\overline{16}$ '16	2°24'03	direct	-11840 Jun 30 j 12:44	25° $\overline{14}$ '44	
minimum elong	-11847 Sep 24 j 20:12	12° $\overline{16}$ '16	2°24'42	evening set	-11840 Sep 24 j 12:32	27° $\overline{06}$ '52	
max. Earth dist.	-11847 Sep 25 j 15:24	12° $\overline{18}$ '05	31.15133 AU				
morning rise	-11847 Oct 10 j 02:53	12° $\overline{50}$ '42		conjunction	-11840 Oct 09 j 20:41	27° $\overline{41}$ '21	1°57'28
retrograde	-11846 Jan 08 j 23:26	14° $\overline{48}$ '41		minimum elong	-11840 Oct 09 j 20:42	27° $\overline{41}$ '21	1°58'05
min. Earth dist.	-11846 Mar 30 j 08:39	13° $\overline{25}$ '39	29.14922 AU	max. Earth dist.	-11840 Oct 10 j 20:32	27° $\overline{43}$ '36	31.08425 AU
opposition	-11846 Mar 31 j 03:52	13° $\overline{24}$ '20	2°32'15	morning rise	-11840 Oct 25 j 08:32	28° $\overline{16}$ '11	
direct	-11846 Jun 17 j 18:29	12° $\overline{01}$ '48			-11840 Dec 25 j 14:45	0° $\overline{00}$ '00	
evening set	-11846 Sep 12 j 02:16	13° $\overline{54}$ '19		retrograde	-11839 Jan 24 j 17:38	0° $\overline{14}$ '29	
					-11839 Feb 24 j 07:04	30° \overline{R} $\overline{5}$	
conjunction	-11846 Sep 27 j 06:32	14° $\overline{28}$ '30	2°20'50	opposition	-11839 Apr 15 j 19:33	28° $\overline{49}$ '37	2°03'07
minimum elong	-11846 Sep 27 j 06:33	14° $\overline{28}$ '30	2°21'31	min. Earth dist.	-11839 Apr 14 j 20:26	28° $\overline{51}$ '12	29.08223 AU
max. Earth dist.	-11846 Sep 28 j 02:54	14° $\overline{30}$ '25	31.14266 AU	direct	-11839 Jul 02 j 23:39	27° $\overline{26}$ '58	
morning rise	-11846 Oct 12 j 13:48	15° $\overline{02}$ '58		evening set	-11839 Sep 26 j 22:14	29° $\overline{19}$ '02	
retrograde	-11845 Jan 11 j 11:40	17° $\overline{01}$ '02					
opposition	-11845 Apr 02 j 16:34	15° $\overline{36}$ '37	2°28'42	conjunction	-11839 Oct 12 j 07:09	29° $\overline{53}$ '35	1°52'55
min. Earth dist.	-11845 Apr 01 j 20:06	15° $\overline{38}$ '00	29.13980 AU	minimum elong	-11839 Oct 12 j 07:10	29° $\overline{53}$ '35	1°53'31
direct	-11845 Jun 20 j 05:09	14° $\overline{14}$ '03		max. Earth dist.	-11839 Oct 13 j 07:53	29° $\overline{55}$ '55	31.07747 AU
evening set	-11845 Sep 14 j 12:01	16° $\overline{06}$ '30			-11839 Oct 15 j 03:09	0° $\overline{00}$ '00	
				morning rise	-11839 Oct 27 j 19:46	0° $\overline{28}$ '28	
conjunction	-11845 Sep 29 j 16:46	16° $\overline{40}$ '44	2°17'25	retrograde	-11838 Jan 27 j 05:48	2° $\overline{26}$ '51	
minimum elong	-11845 Sep 29 j 16:46	16° $\overline{40}$ '44	2°18'05	min. Earth dist.	-11838 Apr 17 j 07:07	1° $\overline{03}$ '39	29.07576 AU
max. Earth dist.	-11845 Sep 30 j 12:36	16° $\overline{42}$ '36	31.13280 AU	opposition	-11838 Apr 18 j 07:51	1° $\overline{01}$ '57	1°58'10
morning rise	-11845 Oct 15 j 00:56	17° $\overline{15}$ '16			-11838 May 30 j 16:34	30° \overline{R} $\overline{5}$	
retrograde	-11844 Jan 14 j 00:58	19° $\overline{13}$ '22		direct	-11838 Jul 05 j 10:48	29° $\overline{39}$ '19	
min. Earth dist.	-11844 Apr 03 j 09:14	17° $\overline{50}$ '15	29.12946 AU		-11838 Aug 09 j 02:40	0° $\overline{00}$ '00	
opposition	-11844 Apr 04 j 05:22	17° $\overline{48}$ '52	2°24'57	evening set	-11838 Sep 29 j 08:21	1° $\overline{31}$ '22	
direct	-11844 Jun 21 j 15:04	16° $\overline{26}$ '17					
evening set	-11844 Sep 15 j 21:35	18° $\overline{18}$ '39		conjunction	-11838 Oct 14 j 17:53	2° $\overline{05}$ '57	1°48'13
				minimum elong	-11838 Oct 14 j 17:54	2° $\overline{05}$ '58	1°48'49
conjunction	-11844 Oct 01 j 03:06	18° $\overline{52}$ '56	2°13'48	max. Earth dist.	-11838 Oct 15 j 18:39	2° $\overline{08}$ '18	31.07137 AU
minimum elong	-11844 Oct 01 j 03:07	18° $\overline{52}$ '56	2°14'28	morning rise	-11838 Oct 30 j 07:25	2° $\overline{40}$ '55	
max. Earth dist.	-11844 Oct 02 j 00:32	18° $\overline{54}$ '57	31.12217 AU	retrograde	-11837 Jan 29 j 17:42	4° $\overline{39}$ '21	
morning rise	-11844 Oct 16 j 11:49	19° $\overline{27}$ '31		opposition	-11837 Apr 20 j 20:11	3° $\overline{14}$ '27	1°53'02
retrograde	-11843 Jan 15 j 13:28	21° $\overline{25}$ '40		min. Earth dist.	-11837 Apr 19 j 20:05	3° $\overline{16}$ '06	29.06986 AU
opposition	-11843 Apr 06 j 17:52	20° $\overline{01}$ '04	2°20'59	direct	-11837 Jul 07 j 20:13	1° $\overline{51}$ '50	
min. Earth dist.	-11843 Apr 05 j 20:52	20° $\overline{02}$ '30	29.11855 AU	evening set	-11837 Oct 01 j 18:28	3° $\overline{43}$ '52	
direct	-11843 Jun 24 j 03:19	18° $\overline{38}$ '27					
evening set	-11843 Sep 18 j 07:18	20° $\overline{30}$ '45		conjunction	-11837 Oct 17 j 04:55	4° $\overline{18}$ '31	1°43'20
				minimum elong	-11837 Oct 17 j 04:56	4° $\overline{18}$ '31	1°43'54
conjunction	-11843 Oct 03 j 13:19	21° $\overline{05}$ '04	2°10'00	max. Earth dist.	-11837 Oct 18 j 06:53	4° $\overline{20}$ '58	31.06569 AU
minimum elong	-11843 Oct 03 j 13:20	21° $\overline{05}$ '04	2°10'38	morning rise	-11837 Nov 01 j 19:06	4° $\overline{53}$ '32	
max. Earth dist.	-11843 Oct 04 j 10:23	21° $\overline{07}$ '03	31.11148 AU	retrograde	-11836 Feb 01 j 06:17	6° $\overline{52}$ '02	
morning rise	-11843 Oct 18 j 22:56	21° $\overline{39}$ '42		min. Earth dist.	-11836 Apr 21 j 07:10	5° $\overline{28}$ '52	29.06398 AU
retrograde	-11842 Jan 18 j 03:33	23° $\overline{37}$ '54		opposition	-11836 Apr 22 j 08:23	5° $\overline{27}$ '07	1°47'44
min. Earth dist.	-11842 Apr 08 j 08:45	22° $\overline{14}$ '41	29.10807 AU	direct	-11836 Jul 09 j 06:47	4° $\overline{04}$ '32	
opposition	-11842 Apr 09 j 06:26	22° $\overline{13}$ '12	2°16'49	evening set	-11836 Oct 03 j 04:53	5° $\overline{56}$ '33	
direct	-11842 Jun 26 j 13:25	20° $\overline{50}$ '33					

Attention, astronomical year style is used: The year -11836 in astronomical counting style is the year 11837 BCE in historical counting style.

conjunction	-11836 Oct 18 j 15:52	6°Ω31'15	1°38'18	retrograde	-11829 Feb 17 j 02:19	22°Ω23'00	
minimum elong	-11836 Oct 18 j 15:53	6°Ω31'15	1°38'52	opposition	-11829 May 08 j 21:11	20°Ω57'44	1°06'35
max. Earth dist.	-11836 Oct 19 j 17:08	6°Ω33'38	31.05969 AU	min. Earth dist.	-11829 May 07 j 19:45	20°Ω59'30	29.00274 AU
morning rise	-11836 Nov 03 j 06:59	7°Ω06'20		direct	-11829 Jul 25 j 11:47	19°Ω34'54	
retrograde	-11835 Feb 02 j 19:17	9°Ω04'53		evening set	-11829 Oct 19 j 08:12	21°Ω26'46	
opposition	-11835 Apr 24 j 20:43	7°Ω39'58	1°42'16				
min. Earth dist.	-11835 Apr 23 j 20:07	7°Ω41'39	29.05769 AU	conjunction	-11829 Nov 04 j 00:31	22°Ω01'51	0°59'23
direct	-11835 Jul 11 j 16:12	6°Ω17'22		minimum elong	-11829 Nov 04 j 00:31	22°Ω01'51	0°59'49
evening set	-11835 Oct 05 j 15:19	8°Ω09'23		max. Earth dist.	-11829 Nov 05 j 02:38	22°Ω04'18	30.99756 AU
				morning rise	-11829 Nov 19 j 21:10	22°Ω37'21	
conjunction	-11835 Oct 21 j 03:12	8°Ω44'08	1°33'07	retrograde	-11828 Feb 19 j 14:40	24°Ω35'56	
minimum elong	-11835 Oct 21 j 03:13	8°Ω44'09	1°33'39	min. Earth dist.	-11828 May 09 j 08:25	23°Ω12'20	28.99405 AU
max. Earth dist.	-11835 Oct 22 j 05:39	8°Ω46'38	31.05307 AU	opposition	-11828 May 10 j 09:05	23°Ω10'37	1°00'14
morning rise	-11835 Nov 05 j 18:57	9°Ω19'17		direct	-11828 Jul 26 j 21:43	21°Ω47'46	
retrograde	-11834 Feb 05 j 07:35	11°Ω17'52		evening set	-11828 Oct 20 j 19:07	23°Ω39'37	
min. Earth dist.	-11834 Apr 26 j 08:00	9°Ω54'38	29.05048 AU				
opposition	-11834 Apr 27 j 08:57	9°Ω52'55	1°36'39	conjunction	-11828 Nov 05 j 12:17	24°Ω14'46	0°53'24
direct	-11834 Jul 14 j 03:29	8°Ω30'19		minimum elong	-11828 Nov 05 j 12:18	24°Ω14'46	0°53'50
evening set	-11834 Oct 08 j 01:58	10°Ω22'19		max. Earth dist.	-11828 Nov 06 j 15:35	24°Ω17'20	30.98951 AU
				morning rise	-11828 Nov 21 j 09:31	24°Ω50'18	
conjunction	-11834 Oct 23 j 14:31	10°Ω57'08	1°27'47	retrograde	-11827 Feb 21 j 03:13	26°Ω48'54	
minimum elong	-11834 Oct 23 j 14:32	10°Ω57'08	1°28'19	opposition	-11827 May 12 j 20:47	25°Ω23'35	0°53'48
max. Earth dist.	-11834 Oct 24 j 15:53	10°Ω59'31	31.04547 AU	min. Earth dist.	-11827 May 11 j 18:56	25°Ω25'23	28.98651 AU
morning rise	-11834 Nov 08 j 07:15	11°Ω32'20		direct	-11827 Jul 29 j 08:37	24°Ω00'42	
retrograde	-11833 Feb 07 j 21:57	13°Ω30'57		evening set	-11827 Oct 23 j 06:21	25°Ω52'35	
opposition	-11833 Apr 29 j 21:15	12°Ω05'57	1°30'53				
min. Earth dist.	-11833 Apr 28 j 20:22	12°Ω07'40	29.04221 AU	conjunction	-11827 Nov 08 j 00:05	26°Ω27'47	0°47'20
direct	-11833 Jul 16 j 13:11	10°Ω43'19		minimum elong	-11827 Nov 08 j 00:06	26°Ω27'47	0°47'44
evening set	-11833 Oct 10 j 12:44	12°Ω35'17		max. Earth dist.	-11827 Nov 09 j 02:40	26°Ω30'17	30.98266 AU
				morning rise	-11827 Nov 23 j 22:13	27°Ω03'23	
conjunction	-11833 Oct 26 j 02:08	13°Ω10'09	1°22'20	retrograde	-11826 Feb 23 j 15:35	29°Ω02'01	
minimum elong	-11833 Oct 26 j 02:09	13°Ω10'09	1°22'50	min. Earth dist.	-11826 May 14 j 07:16	27°Ω38'26	28.98025 AU
max. Earth dist.	-11833 Oct 27 j 04:14	13°Ω12'37	31.03661 AU	opposition	-11826 May 15 j 08:33	27°Ω36'41	0°47'16
morning rise	-11833 Nov 10 j 19:33	13°Ω45'25		direct	-11826 Jul 31 j 17:50	26°Ω13'48	
	-11833 Dec 19 j 05:55	15°Ω		evening set	-11826 Oct 25 j 17:33	28°Ω05'43	
retrograde	-11832 Feb 10 j 10:10	15°Ω44'02					
	-11832 Apr 05 j 12:34	15°Ω		conjunction	-11826 Nov 10 j 12:12	28°Ω40'58	0°41'12
min. Earth dist.	-11832 Apr 30 j 08:52	14°Ω20'40	29.03270 AU	minimum elong	-11826 Nov 10 j 12:12	28°Ω40'58	0°41'35
opposition	-11832 May 01 j 09:19	14°Ω18'58	1°24'59	max. Earth dist.	-11826 Nov 11 j 16:03	28°Ω43'35	30.97692 AU
direct	-11832 Jul 18 j 00:50	12°Ω56'18		morning rise	-11826 Nov 26 j 10:54	29°Ω16'37	
evening set	-11832 Oct 11 j 23:31	14°Ω48'14			-11826 Dec 17 j 07:14	0°Ω	
	-11832 Oct 17 j 06:58	15°Ω		retrograde	-11825 Feb 26 j 03:25	1°Ω15'16	
					-11825 May 11 j 19:53	30°Ω	
conjunction	-11832 Oct 27 j 13:39	15°Ω23'10	1°16'45	opposition	-11825 May 17 j 20:13	29°Ω49'58	0°40'40
minimum elong	-11832 Oct 27 j 13:40	15°Ω23'10	1°17'15	min. Earth dist.	-11825 May 16 j 18:35	29°Ω51'45	28.97477 AU
max. Earth dist.	-11832 Oct 28 j 15:15	15°Ω25'34	31.02690 AU	direct	-11825 Aug 03 j 04:33	28°Ω27'06	
morning rise	-11832 Nov 12 j 07:56	15°Ω58'29			-11825 Oct 19 j 08:24	0°Ω	
retrograde	-11831 Feb 12 j 01:04	17°Ω57'05		evening set	-11825 Oct 28 j 05:10	0°Ω19'04	
opposition	-11831 May 03 j 21:22	16°Ω31'57	1°18'58				
min. Earth dist.	-11831 May 02 j 20:17	16°Ω33'41	29.02262 AU	conjunction	-11825 Nov 13 j 00:21	0°Ω54'22	0°34'59
direct	-11831 Jul 20 j 12:46	15°Ω09'13		minimum elong	-11825 Nov 13 j 00:21	0°Ω54'22	0°35'20
evening set	-11831 Oct 14 j 10:13	17°Ω01'07		max. Earth dist.	-11825 Nov 14 j 03:06	0°Ω56'53	30.97185 AU
				morning rise	-11825 Nov 28 j 23:52	1°Ω30'04	
conjunction	-11831 Oct 30 j 01:05	17°Ω36'06	1°11'04	retrograde	-11824 Feb 28 j 17:40	3°Ω28'45	
minimum elong	-11831 Oct 30 j 01:06	17°Ω36'06	1°11'32	min. Earth dist.	-11824 May 18 j 06:19	2°Ω05'15	28.96988 AU
max. Earth dist.	-11831 Oct 31 j 03:07	17°Ω38'33	31.01668 AU	opposition	-11824 May 19 j 07:47	2°Ω03'28	0°33'59
morning rise	-11831 Nov 14 j 20:09	18°Ω11'29		direct	-11824 Aug 04 j 13:22	0°Ω40'36	
retrograde	-11830 Feb 14 j 13:15	20°Ω10'05		evening set	-11824 Oct 29 j 16:48	2°Ω32'38	
min. Earth dist.	-11830 May 05 j 09:12	18°Ω46'33	29.01238 AU				
opposition	-11830 May 06 j 09:28	18°Ω44'52	1°12'50	conjunction	-11824 Nov 14 j 12:45	3°Ω08'00	0°28'43
direct	-11830 Jul 23 j 00:04	17°Ω22'05		minimum elong	-11824 Nov 14 j 12:45	3°Ω08'00	0°29'03
evening set	-11830 Oct 16 j 21:06	19°Ω13'57		max. Earth dist.	-11824 Nov 15 j 16:13	3°Ω10'34	30.96696 AU
				morning rise	-11824 Nov 30 j 12:47	3°Ω43'45	
conjunction	-11830 Nov 01 j 12:48	19°Ω48'59	1°05'16	retrograde	-11823 Mar 02 j 06:09	5°Ω42'28	
minimum elong	-11830 Nov 01 j 12:49	19°Ω48'59	1°05'44	opposition	-11823 May 21 j 19:26	4°Ω17'12	0°27'15
max. Earth dist.	-11830 Nov 02 j 15:15	19°Ω51'28	31.00678 AU	min. Earth dist.	-11823 May 20 j 18:34	4°Ω18'56	28.96485 AU
morning rise	-11830 Nov 17 j 08:36	20°Ω24'25		direct	-11823 Aug 07 j 00:27	2°Ω54'20	

Attention, astronomical year style is used: The year -11823 in astronomical counting style is the year 11824 BCE in historical counting style.

evening set	-11823 Nov 01 j 04:36	4° \mathring{M} 46'26		min. Earth dist.	-11817 Jun 03 j 18:38	17° \mathring{M} 42'45	28.91801 AU
				direct	-11817 Aug 20 j 21:15	16° \mathring{M} 17'58	
conjunction	-11823 Nov 17 j 01:11	5° \mathring{M} 21'50	0°22'24	evening set	-11817 Nov 15 j 06:34	18° \mathring{M} 10'18	
minimum elong	-11823 Nov 17 j 01:11	5° \mathring{M} 21'50	0°22'42				
max. Earth dist.	-11823 Nov 18 j 03:48	5° \mathring{M} 24'20	30.96186 AU	conjunction	-11817 Dec 01 j 06:49	18° \mathring{M} 45'57	-0°15'58
morning rise	-11823 Dec 03 j 01:56	5° \mathring{M} 57'38		minimum elong	-11817 Dec 01 j 06:49	18° \mathring{M} 45'57	0°15'49
retrograde	-11822 Mar 04 j 21:37	7° \mathring{M} 56'22		behind sun begin	-11817 Dec 01 j 06:17	18° \mathring{M} 45'54	
min. Earth dist.	-11822 May 23 j 06:03	6° \mathring{M} 32'52	28.95936 AU	behind sun end	-11817 Dec 01 j 07:20	18° \mathring{M} 45'59	
opposition	-11822 May 24 j 07:05	6° \mathring{M} 31'07	0°20'28	max. Earth dist.	-11817 Dec 02 j 07:29	18° \mathring{M} 48'15	30.91338 AU
direct	-11822 Aug 09 j 12:22	5° \mathring{M} 08'14		morning rise	-11817 Dec 17 j 10:46	19° \mathring{M} 21'58	
evening set	-11822 Nov 03 j 16:46	7° \mathring{M} 00'23		retrograde	-11816 Mar 18 j 01:47	21° \mathring{M} 20'27	
				min. Earth dist.	-11816 Jun 05 j 05:39	19° \mathring{M} 56'32	28.90961 AU
conjunction	-11822 Nov 19 j 13:58	7° \mathring{M} 35'51	0°16'03	opposition	-11816 Jun 06 j 03:35	19° \mathring{M} 55'00	-0°20'31
minimum elong	-11822 Nov 19 j 13:58	7° \mathring{M} 35'51	0°16'21	direct	-11816 Aug 22 j 08:31	18° \mathring{M} 31'41	
max. Earth dist.	-11822 Nov 20 j 16:20	7° \mathring{M} 38'19	30.95581 AU	evening set	-11816 Nov 16 j 19:13	20° \mathring{M} 24'03	
morning rise	-11822 Dec 05 j 15:20	8° \mathring{M} 11'42					
retrograde	-11821 Mar 07 j 10:03	10° \mathring{M} 10'26		conjunction	-11816 Dec 02 j 19:50	20° \mathring{M} 59'44	-0°22'19
opposition	-11821 May 26 j 18:41	8° \mathring{M} 45'10	0°13'39	minimum elong	-11816 Dec 02 j 19:50	20° \mathring{M} 59'44	0°22'11
min. Earth dist.	-11821 May 25 j 19:09	8° \mathring{M} 46'49	28.95276 AU	max. Earth dist.	-11816 Dec 03 j 19:11	21° \mathring{M} 01'55	30.90559 AU
direct	-11821 Aug 11 j 23:22	7° \mathring{M} 22'15		morning rise	-11816 Dec 19 j 00:23	21° \mathring{M} 35'46	
evening set	-11821 Nov 06 j 05:00	9° \mathring{M} 14'27		retrograde	-11815 Mar 20 j 15:15	23° \mathring{M} 34'13	
				opposition	-11815 Jun 08 j 14:46	22° \mathring{M} 08'44	-0°27'17
conjunction	-11821 Nov 22 j 02:56	9° \mathring{M} 49'58	0°09'41	min. Earth dist.	-11815 Jun 07 j 17:01	22° \mathring{M} 10'16	28.90252 AU
minimum elong	-11821 Nov 22 j 02:56	9° \mathring{M} 49'58	0°09'57	direct	-11815 Aug 24 j 17:50	20° \mathring{M} 45'20	
behind sun begin	-11821 Nov 21 j 21:40	9° \mathring{M} 49'29		evening set	-11815 Nov 19 j 07:45	22° \mathring{M} 37'47	
behind sun end	-11821 Nov 22 j 08:12	9° \mathring{M} 50'26					
max. Earth dist.	-11821 Nov 23 j 04:48	9° \mathring{M} 52'23	30.94873 AU	conjunction	-11815 Dec 05 j 08:59	23° \mathring{M} 13'30	-0°28'38
morning rise	-11821 Dec 08 j 04:51	10° \mathring{M} 25'51		minimum elong	-11815 Dec 05 j 08:58	23° \mathring{M} 13'30	0°28'32
retrograde	-11820 Mar 09 j 00:34	12° \mathring{M} 24'33		max. Earth dist.	-11815 Dec 06 j 09:02	23° \mathring{M} 15'44	30.89904 AU
min. Earth dist.	-11820 May 27 j 06:16	11° \mathring{M} 00'57	28.94500 AU	morning rise	-11815 Dec 21 j 13:50	23° \mathring{M} 49'34	
opposition	-11820 May 28 j 06:14	10° \mathring{M} 59'17	0°06'49	retrograde	-11814 Mar 23 j 02:19	25° \mathring{M} 47'59	
direct	-11820 Aug 13 j 11:46	9° \mathring{M} 36'18		min. Earth dist.	-11814 Jun 10 j 04:42	24° \mathring{M} 23'59	28.89663 AU
evening set	-11820 Nov 07 j 17:16	11° \mathring{M} 28'32		opposition	-11814 Jun 11 j 01:55	24° \mathring{M} 22'29	-0°34'02
				direct	-11814 Aug 27 j 05:06	22° \mathring{M} 59'03	
conjunction	-11820 Nov 23 j 15:40	12° \mathring{M} 04'05	0°03'19	evening set	-11814 Nov 21 j 20:38	24° \mathring{M} 51'35	
minimum elong	-11820 Nov 23 j 15:40	12° \mathring{M} 04'05	0°03'33				
behind sun begin	-11820 Nov 23 j 09:11	12° \mathring{M} 03'30		conjunction	-11814 Dec 07 j 22:18	25° \mathring{M} 27'19	-0°34'55
behind sun end	-11820 Nov 23 j 22:09	12° \mathring{M} 04'40		minimum elong	-11814 Dec 07 j 22:17	25° \mathring{M} 27'19	0°34'50
max. Earth dist.	-11820 Nov 24 j 16:27	12° \mathring{M} 06'24	30.94038 AU	max. Earth dist.	-11814 Dec 08 j 21:25	25° \mathring{M} 29'29	30.89389 AU
morning rise	-11820 Dec 09 j 18:14	12° \mathring{M} 40'01		morning rise	-11814 Dec 24 j 03:38	26° \mathring{M} 03'25	
retrograde	-11819 Mar 11 j 14:01	14° \mathring{M} 38'40		retrograde	-11813 Mar 25 j 16:29	28° \mathring{M} 01'48	
desc. node	-11819 May 29 j 06:44	13° \mathring{M} 15'48		opposition	-11813 Jun 13 j 12:52	26° \mathring{M} 36'20	-0°40'44
opposition	-11819 May 30 j 17:51	13° \mathring{M} 13'21	-0°00'02	min. Earth dist.	-11813 Jun 12 j 15:22	26° \mathring{M} 37'51	28.89210 AU
min. Earth dist.	-11819 May 29 j 19:20	13° \mathring{M} 14'55	28.93624 AU	direct	-11813 Aug 29 j 16:21	25° \mathring{M} 12'51	
direct	-11819 Aug 15 j 22:53	11° \mathring{M} 50'18		evening set	-11813 Nov 24 j 09:39	27° \mathring{M} 05'29	
evening set	-11819 Nov 10 j 05:33	13° \mathring{M} 42'33					
				conjunction	-11813 Dec 10 j 11:44	27° \mathring{M} 41'16	-0°41'09
conjunction	-11819 Nov 26 j 04:43	14° \mathring{M} 18'08	-0°03'14	minimum elong	-11813 Dec 10 j 11:44	27° \mathring{M} 41'15	0°41'05
minimum elong	-11819 Nov 26 j 04:42	14° \mathring{M} 18'08	0°03'01	max. Earth dist.	-11813 Dec 11 j 10:51	27° \mathring{M} 43'25	30.88979 AU
behind sun begin	-11819 Nov 25 j 22:11	14° \mathring{M} 17'33		morning rise	-11813 Dec 26 j 17:23	28° \mathring{M} 17'22	
behind sun end	-11819 Nov 26 j 11:14	14° \mathring{M} 18'43			-11812 Feb 25 j 02:03	0° \mathring{A}	
max. Earth dist.	-11819 Nov 27 j 05:52	14° \mathring{M} 20'30	30.93140 AU	retrograde	-11812 Mar 27 j 04:36	0° \mathring{A} 15'45	
morning rise	-11819 Dec 12 j 07:41	14° \mathring{M} 54'06			-11812 Apr 27 j 16:44	30° \mathring{R} \mathring{M}	
retrograde	-11818 Mar 14 j 02:44	16° \mathring{M} 52'42		min. Earth dist.	-11812 Jun 14 j 03:50	28° \mathring{M} 51'44	28.88852 AU
min. Earth dist.	-11818 Jun 01 j 06:11	15° \mathring{M} 28'57	28.92702 AU	opposition	-11812 Jun 15 j 00:01	28° \mathring{M} 50'19	-0°47'22
opposition	-11818 Jun 02 j 05:07	15° \mathring{M} 27'20	-0°06'52	direct	-11812 Aug 31 j 02:49	27° \mathring{M} 26'49	
direct	-11818 Aug 18 j 11:12	14° \mathring{M} 04'11		evening set	-11812 Nov 25 j 22:35	29° \mathring{M} 19'33	
evening set	-11818 Nov 12 j 18:05	15° \mathring{M} 56'28					
				conjunction	-11812 Dec 12 j 01:08	29° \mathring{M} 55'22	-0°47'20
conjunction	-11818 Nov 28 j 17:40	16° \mathring{M} 32'05	-0°09'36	minimum elong	-11812 Dec 12 j 01:07	29° \mathring{M} 55'22	0°47'18
minimum elong	-11818 Nov 28 j 17:40	16° \mathring{M} 32'05	0°09'25	max. Earth dist.	-11812 Dec 12 j 23:53	29° \mathring{M} 57'29	30.88661 AU
behind sun begin	-11818 Nov 28 j 12:13	16° \mathring{M} 31'36			-11812 Dec 14 j 02:46	0° \mathring{A}	
behind sun end	-11818 Nov 28 j 23:07	16° \mathring{M} 32'35		morning rise	-11812 Dec 28 j 07:03	0° \mathring{A} 31'30	
max. Earth dist.	-11818 Nov 29 j 17:29	16° \mathring{M} 34'19	30.92218 AU	retrograde	-11811 Mar 29 j 19:20	2° \mathring{A} 29'52	
morning rise	-11818 Dec 14 j 21:21	17° \mathring{M} 08'06		opposition	-11811 Jun 17 j 10:59	1° \mathring{A} 04'28	-0°53'56
retrograde	-11817 Mar 16 j 14:35	19° \mathring{M} 06'38		min. Earth dist.	-11811 Jun 16 j 14:23	1° \mathring{A} 05'56	28.88556 AU
opposition	-11817 Jun 04 j 16:30	17° \mathring{M} 41'13	-0°13'42		-11811 Jul 30 j 20:17	30° \mathring{R} \mathring{M}	

Attention, astronomical year style is used: The year -11811 in astronomical counting style is the year 11812 BCE in historical counting style.

direct	-11811 Sep 02 j 15:08	29° <u>10</u> 40'57		morning rise	-11804 Jan 14 j 10:25	16° <u>13</u> 47	
	-11811 Oct 05 j 21:48	0° <u>1</u>		retrograde	-11804 Apr 14 j 12:13	18° <u>11</u> 47	
evening set	-11811 Nov 28 j 11:59	1° <u>1</u> 33'50		opposition	-11804 Jul 02 j 15:18	16° <u>14</u> 6'31	-1°37'10
				min. Earth dist.	-11804 Jul 02 j 00:26	16° <u>14</u> 7'34	28.85296 AU
conjunction	-11811 Dec 14 j 14:47	2° <u>1</u> 09'40	-0°53'27	direct	-11804 Sep 17 j 21:52	15° <u>1</u> 22'32	
minimum elong	-11811 Dec 14 j 14:47	2° <u>1</u> 09'40	0°53'26	evening set	-11804 Dec 14 j 12:20	17° <u>1</u> 16'10	
max. Earth dist.	-11811 Dec 15 j 12:25	2° <u>1</u> 11'41	30.88364 AU				
morning rise	-11811 Dec 30 j 21:04	2° <u>1</u> 45'50		conjunction	-11804 Dec 30 j 17:08	17° <u>1</u> 52'07	-1°33'29
retrograde	-11810 Apr 01 j 09:09	4° <u>1</u> 44'11		minimum elong	-11804 Dec 30 j 17:07	17° <u>1</u> 52'07	1°33'40
opposition	-11810 Jun 19 j 22:02	3° <u>1</u> 18'50	-1°00'26	max. Earth dist.	-11804 Dec 31 j 09:10	17° <u>1</u> 53'37	30.84977 AU
min. Earth dist.	-11810 Jun 19 j 03:08	3° <u>1</u> 20'10	28.88266 AU	morning rise	-11803 Jan 16 j 00:25	18° <u>1</u> 28'19	
direct	-11810 Sep 05 j 02:05	1° <u>1</u> 55'18		retrograde	-11803 Apr 16 j 23:23	20° <u>1</u> 26'15	
evening set	-11810 Dec 01 j 01:27	3° <u>1</u> 48'18		opposition	-11803 Jul 05 j 02:04	19° <u>1</u> 00'59	-1°42'49
				min. Earth dist.	-11803 Jul 04 j 12:38	19° <u>1</u> 01'56	28.84880 AU
conjunction	-11810 Dec 17 j 04:47	4° <u>1</u> 24'10	-0°59'29	direct	-11803 Sep 20 j 08:12	17° <u>1</u> 36'54	
minimum elong	-11810 Dec 17 j 04:46	4° <u>1</u> 24'10	0°59'30	evening set	-11803 Dec 17 j 02:19	19° <u>1</u> 30'40	
max. Earth dist.	-11810 Dec 18 j 02:16	4° <u>1</u> 26'10	30.88052 AU				
morning rise	-11809 Jan 02 j 11:11	5° <u>1</u> 00'21		conjunction	-11802 Jan 02 j 07:21	20° <u>1</u> 06'37	-1°38'42
retrograde	-11809 Apr 03 j 22:38	6° <u>1</u> 58'40		minimum elong	-11802 Jan 02 j 07:20	20° <u>1</u> 06'37	1°38'54
opposition	-11809 Jun 22 j 09:00	5° <u>1</u> 33'22	-1°06'51	max. Earth dist.	-11802 Jan 02 j 22:43	20° <u>1</u> 08'03	30.84627 AU
min. Earth dist.	-11809 Jun 21 j 14:05	5° <u>1</u> 34'42	28.87919 AU	morning rise	-11802 Jan 18 j 14:40	20° <u>1</u> 42'48	
direct	-11809 Sep 07 j 14:41	4° <u>1</u> 09'48		retrograde	-11802 Apr 19 j 13:05	22° <u>1</u> 40'40	
evening set	-11809 Dec 03 j 15:13	6° <u>1</u> 02'55		opposition	-11802 Jul 07 j 12:33	21° <u>1</u> 15'25	-1°48'19
				min. Earth dist.	-11802 Jul 06 j 22:43	21° <u>1</u> 16'24	28.84606 AU
conjunction	-11809 Dec 19 j 18:40	6° <u>1</u> 38'49	-1°05'26	direct	-11802 Sep 22 j 21:19	19° <u>1</u> 51'16	
minimum elong	-11809 Dec 19 j 18:39	6° <u>1</u> 38'49	1°05'28	evening set	-11802 Dec 19 j 16:30	21° <u>1</u> 45'09	
max. Earth dist.	-11809 Dec 20 j 14:12	6° <u>1</u> 40'38	30.87654 AU				
morning rise	-11808 Jan 05 j 01:24	7° <u>1</u> 15'00		conjunction	-11801 Jan 04 j 21:36	22° <u>1</u> 21'07	-1°43'46
retrograde	-11808 Apr 05 j 11:29	9° <u>1</u> 13'18		minimum elong	-11801 Jan 04 j 21:35	22° <u>1</u> 21'07	1°44'00
opposition	-11808 Jun 23 j 20:03	7° <u>1</u> 48'01	-1°13'09	max. Earth dist.	-11801 Jan 05 j 11:58	22° <u>1</u> 22'27	30.84412 AU
min. Earth dist.	-11808 Jun 23 j 02:42	7° <u>1</u> 49'15	28.87490 AU	morning rise	-11801 Jan 21 j 04:59	22° <u>1</u> 57'18	
direct	-11808 Sep 09 j 00:58	6° <u>1</u> 24'24		retrograde	-11801 Apr 22 j 01:49	24° <u>1</u> 55'06	
evening set	-11808 Dec 05 j 04:52	8° <u>1</u> 17'38		opposition	-11801 Jul 09 j 23:16	23° <u>1</u> 29'52	-1°53'40
				min. Earth dist.	-11801 Jul 09 j 10:55	23° <u>1</u> 30'45	28.84480 AU
conjunction	-11808 Dec 21 j 08:48	8° <u>1</u> 53'33	-1°11'17	direct	-11801 Sep 25 j 08:55	22° <u>1</u> 05'41	
minimum elong	-11808 Dec 21 j 08:47	8° <u>1</u> 53'33	1°11'21	evening set	-11801 Dec 22 j 06:33	23° <u>1</u> 59'42	
max. Earth dist.	-11808 Dec 22 j 04:27	8° <u>1</u> 55'23	30.87173 AU				
morning rise	-11807 Jan 06 j 15:33	9° <u>1</u> 29'45		conjunction	-11800 Jan 07 j 11:54	24° <u>1</u> 35'40	-1°48'41
retrograde	-11807 Apr 07 j 23:48	11° <u>1</u> 27'59		minimum elong	-11800 Jan 07 j 11:52	24° <u>1</u> 35'40	1°48'56
opposition	-11807 Jun 26 j 06:58	10° <u>1</u> 02'43	-1°19'21	max. Earth dist.	-11800 Jan 08 j 02:15	24° <u>1</u> 37'00	30.84351 AU
min. Earth dist.	-11807 Jun 25 j 14:10	10° <u>1</u> 03'55	28.86966 AU	morning rise	-11800 Jan 23 j 19:07	25° <u>1</u> 11'50	
direct	-11807 Sep 11 j 12:40	8° <u>1</u> 39'02		retrograde	-11800 Apr 23 j 14:59	27° <u>1</u> 09'34	
evening set	-11807 Dec 07 j 18:39	10° <u>1</u> 32'21		opposition	-11800 Jul 11 j 09:47	25° <u>1</u> 44'25	-1°58'49
				min. Earth dist.	-11800 Jul 10 j 21:09	25° <u>1</u> 45'19	28.84485 AU
conjunction	-11807 Dec 23 j 22:45	11° <u>1</u> 08'17	-1°17'01	direct	-11800 Sep 26 j 21:58	24° <u>1</u> 20'11	
minimum elong	-11807 Dec 23 j 22:44	11° <u>1</u> 08'17	1°17'07	evening set	-11800 Dec 23 j 20:54	26° <u>1</u> 14'21	
max. Earth dist.	-11807 Dec 24 j 16:20	11° <u>1</u> 09'55	30.86619 AU				
morning rise	-11806 Jan 09 j 05:52	11° <u>1</u> 44'29		conjunction	-11799 Jan 09 j 02:10	26° <u>1</u> 50'19	-1°53'26
retrograde	-11806 Apr 10 j 12:51	13° <u>1</u> 42'40		minimum elong	-11799 Jan 09 j 02:09	26° <u>1</u> 50'19	1°53'43
opposition	-11806 Jun 28 j 17:53	12° <u>1</u> 17'23	-1°25'25	max. Earth dist.	-11799 Jan 09 j 14:54	26° <u>1</u> 51'30	30.84410 AU
min. Earth dist.	-11806 Jun 28 j 01:56	12° <u>1</u> 18'31	28.86397 AU	morning rise	-11799 Jan 25 j 09:30	27° <u>1</u> 26'29	
direct	-11806 Sep 13 j 22:41	10° <u>1</u> 53'36		retrograde	-11799 Apr 26 j 04:31	29° <u>1</u> 24'10	
evening set	-11806 Dec 10 j 08:34	12° <u>1</u> 47'02		opposition	-11799 Jul 13 j 20:24	27° <u>1</u> 59'04	-2°03'49
				min. Earth dist.	-11799 Jul 13 j 09:09	27° <u>1</u> 59'52	28.84609 AU
conjunction	-11806 Dec 26 j 13:01	13° <u>1</u> 22'58	-1°22'38	direct	-11799 Sep 29 j 08:25	26° <u>1</u> 34'49	
minimum elong	-11806 Dec 26 j 13:00	13° <u>1</u> 22'58	1°22'46	evening set	-11799 Dec 26 j 11:12	28° <u>1</u> 29'07	
max. Earth dist.	-11806 Dec 27 j 06:39	13° <u>1</u> 24'37	30.86025 AU				
morning rise	-11805 Jan 11 j 20:06	13° <u>1</u> 59'11		conjunction	-11798 Jan 11 j 16:45	29° <u>1</u> 05'07	-1°58'01
retrograde	-11805 Apr 12 j 23:02	15° <u>1</u> 57'16		minimum elong	-11798 Jan 11 j 16:44	29° <u>1</u> 05'06	1°58'19
opposition	-11805 Jul 01 j 04:36	14° <u>1</u> 32'00	-1°31'22	max. Earth dist.	-11798 Jan 12 j 05:43	29° <u>1</u> 06'19	30.84558 AU
min. Earth dist.	-11805 Jun 30 j 13:45	14° <u>1</u> 33'03	28.85812 AU	morning rise	-11798 Jan 27 j 23:52	29° <u>1</u> 41'16	
direct	-11805 Sep 16 j 10:26	13° <u>1</u> 08'07			-11798 Feb 05 j 18:01	0° <u>1</u>	
evening set	-11805 Dec 12 j 22:32	15° <u>1</u> 01'38		retrograde	-11798 Apr 28 j 17:46	1° <u>1</u> 38'53	
				opposition	-11798 Jul 16 j 07:00	0° <u>1</u> 13'52	-2°08'37
conjunction	-11805 Dec 29 j 03:08	15° <u>1</u> 37'35	-1°28'08	min. Earth dist.	-11798 Jul 15 j 20:23	0° <u>1</u> 14'38	28.84774 AU
minimum elong	-11805 Dec 29 j 03:07	15° <u>1</u> 37'35	1°28'17		-11798 Jul 24 j 10:36	30° <u>1</u>	
max. Earth dist.	-11805 Dec 29 j 19:17	15° <u>1</u> 39'05	30.85465 AU	direct	-11798 Oct 01 j 21:02	28° <u>1</u> 49'36	

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

	-11798 Dec 07 j 16:05	0° ℳ		max. Earth dist.	-11791 Jan 28 j 04:23	14° ℳ 50'36	30.84548 AU
evening set	-11798 Dec 29 j 01:56	0° ℳ 44'03			-11791 Feb 01 j 09:25	15° ℳ	
				morning rise	-11791 Feb 13 j 06:01	15° ℳ 26'12	
conjunction	-11797 Jan 14 j 07:22	1° ℳ 20'03 -2°02'25		retrograde	-11791 May 14 j 06:38	17° ℳ 23'09	
minimum elong	-11797 Jan 14 j 07:20	1° ℳ 20'02 2°02'45		opposition	-11791 Jul 31 j 09:02	15° ℳ 58'27 -2°36'23	
max. Earth dist.	-11797 Jan 14 j 18:04	1° ℳ 21'02 30.84720 AU		min. Earth dist.	-11791 Jul 31 j 05:13	15° ℳ 58'43 28.84729 AU	
morning rise	-11797 Jan 30 j 14:32	1° ℳ 56'12			-11791 Sep 07 j 00:58	15° ℳ	
retrograde	-11797 May 01 j 06:37	3° ℳ 53'45		direct	-11791 Oct 17 j 08:38	14° ℳ 33'40	
opposition	-11797 Jul 18 j 17:35	2° ℳ 28'49 -2°13'13			-11791 Nov 26 j 03:46	15° ℳ	
min. Earth dist.	-11797 Jul 18 j 07:59	2° ℳ 29'30 28.84939 AU		evening set	-11790 Jan 14 j 09:13	16° ℳ 29'01	
direct	-11797 Oct 04 j 07:40	1° ℳ 04'30					
evening set	-11797 Dec 31 j 16:36	2° ℳ 59'07		conjunction	-11790 Jan 30 j 14:37	17° ℳ 04'57 -2°27'40	
				minimum elong	-11790 Jan 30 j 14:36	17° ℳ 04'57 2°28'08	
conjunction	-11796 Jan 16 j 22:12	3° ℳ 35'06 -2°06'38		max. Earth dist.	-11790 Jan 30 j 17:19	17° ℳ 05'12 30.84547 AU	
minimum elong	-11796 Jan 16 j 22:11	3° ℳ 35'06 2°06'58		morning rise	-11790 Feb 15 j 20:35	17° ℳ 40'58	
max. Earth dist.	-11796 Jan 17 j 08:42	3° ℳ 36'04 30.84842 AU		retrograde	-11790 May 16 j 19:43	19° ℳ 37'48	
morning rise	-11796 Feb 02 j 05:04	4° ℳ 11'14		opposition	-11790 Aug 02 j 19:34	18° ℳ 13'08 -2°39'26	
retrograde	-11796 May 02 j 17:38	6° ℳ 08'42		min. Earth dist.	-11790 Aug 02 j 17:06	18° ℳ 13'19 28.84798 AU	
opposition	-11796 Jul 20 j 04:20	4° ℳ 43'51 -2°17'37		direct	-11790 Oct 19 j 20:06	16° ℳ 48'17	
min. Earth dist.	-11796 Jul 19 j 20:08	4° ℳ 44'26 28.85034 AU		evening set	-11789 Jan 16 j 23:56	18° ℳ 43'46	
direct	-11796 Oct 05 j 19:26	3° ℳ 19'29					
evening set	-11795 Jan 02 j 07:16	5° ℳ 14'14		conjunction	-11789 Feb 02 j 05:24	19° ℳ 19'42 -2°30'25	
				minimum elong	-11789 Feb 02 j 05:23	19° ℳ 19'42 2°30'55	
conjunction	-11795 Jan 18 j 12:48	5° ℳ 50'13 -2°10'39		max. Earth dist.	-11789 Feb 02 j 08:19	19° ℳ 19'58 30.84666 AU	
minimum elong	-11795 Jan 18 j 12:47	5° ℳ 50'12 2°11'01		morning rise	-11789 Feb 18 j 10:58	19° ℳ 55'41	
max. Earth dist.	-11795 Jan 18 j 21:07	5° ℳ 50'59 30.84895 AU		retrograde	-11789 May 19 j 08:27	21° ℳ 52'24	
morning rise	-11795 Feb 03 j 19:41	6° ℳ 26'20		opposition	-11789 Aug 05 j 05:57	20° ℳ 27'48 -2°42'15	
retrograde	-11795 May 05 j 07:02	8° ℳ 23'43		min. Earth dist.	-11789 Aug 05 j 03:56	20° ℳ 27'57 28.84984 AU	
opposition	-11795 Jul 22 j 14:59	6° ℳ 58'54 -2°21'49		direct	-11789 Oct 22 j 09:39	19° ℳ 02'55	
min. Earth dist.	-11795 Jul 22 j 07:15	6° ℳ 59'27 28.85050 AU		evening set	-11788 Jan 19 j 14:48	20° ℳ 58'31	
direct	-11795 Oct 08 j 06:51	5° ℳ 34'28					
evening set	-11794 Jan 04 j 22:06	7° ℳ 29'21		conjunction	-11788 Feb 04 j 20:01	21° ℳ 34'27 -2°32'56	
				minimum elong	-11788 Feb 04 j 20:00	21° ℳ 34'27 2°33'26	
conjunction	-11794 Jan 21 j 03:42	8° ℳ 05'19 -2°14'29		max. Earth dist.	-11788 Feb 04 j 20:59	21° ℳ 34'33 30.84920 AU	
minimum elong	-11794 Jan 21 j 03:41	8° ℳ 05'19 2°14'51		morning rise	-11788 Feb 21 j 01:30	22° ℳ 10'25	
max. Earth dist.	-11794 Jan 21 j 11:18	8° ℳ 06'02 30.84852 AU		retrograde	-11788 May 20 j 20:57	24° ℳ 07'02	
morning rise	-11794 Feb 06 j 10:21	8° ℳ 41'26		opposition	-11788 Aug 06 j 16:26	22° ℳ 42'31 -2°44'49	
retrograde	-11794 May 07 j 17:43	10° ℳ 38'43		min. Earth dist.	-11788 Aug 06 j 15:00	22° ℳ 42'38 28.85320 AU	
opposition	-11794 Jul 25 j 01:36	9° ℳ 13'56 -2°25'48		direct	-11788 Oct 23 j 20:54	21° ℳ 17'36	
min. Earth dist.	-11794 Jul 24 j 19:55	9° ℳ 14'20 28.84978 AU		evening set	-11787 Jan 21 j 05:21	23° ℳ 13'21	
direct	-11794 Oct 10 j 17:31	7° ℳ 49'25					
evening set	-11793 Jan 07 j 12:58	9° ℳ 44'24		conjunction	-11787 Feb 06 j 10:40	23° ℳ 49'16 -2°35'13	
				minimum elong	-11787 Feb 06 j 10:39	23° ℳ 49'16 2°35'45	
conjunction	-11793 Jan 23 j 18:35	10° ℳ 20'22 -2°18'06		max. Earth dist.	-11787 Feb 06 j 11:54	23° ℳ 49'23 30.85307 AU	
minimum elong	-11793 Jan 23 j 18:33	10° ℳ 20'22 2°18'31		morning rise	-11787 Feb 22 j 15:45	24° ℳ 25'13	
max. Earth dist.	-11793 Jan 24 j 00:43	10° ℳ 20'57 30.84755 AU		retrograde	-11787 May 23 j 08:08	26° ℳ 21'45	
morning rise	-11793 Feb 09 j 01:06	10° ℳ 56'27		opposition	-11787 Aug 09 j 02:55	24° ℳ 57'20 -2°47'08	
retrograde	-11793 May 10 j 06:26	12° ℳ 53'37		min. Earth dist.	-11787 Aug 09 j 02:39	24° ℳ 57'21 28.85761 AU	
opposition	-11793 Jul 27 j 12:08	11° ℳ 28'52 -2°29'34		direct	-11787 Oct 26 j 08:55	23° ℳ 32'24	
min. Earth dist.	-11793 Jul 27 j 06:32	11° ℳ 29'16 28.84868 AU		evening set	-11786 Jan 23 j 20:18	25° ℳ 28'17	
direct	-11793 Oct 13 j 07:12	10° ℳ 04'16					
evening set	-11792 Jan 10 j 03:43	11° ℳ 59'22		conjunction	-11786 Feb 09 j 01:24	26° ℳ 04'12 -2°37'16	
				minimum elong	-11786 Feb 09 j 01:23	26° ℳ 04'12 2°37'48	
conjunction	-11792 Jan 26 j 09:13	12° ℳ 35'19 -2°21'31		max. Earth dist.	-11786 Feb 09 j 00:38	26° ℳ 04'08 30.85797 AU	
minimum elong	-11792 Jan 26 j 09:12	12° ℳ 35'19 2°21'56		morning rise	-11786 Feb 25 j 06:23	26° ℳ 40'08	
max. Earth dist.	-11792 Jan 26 j 14:07	12° ℳ 35'47 30.84626 AU		retrograde	-11786 May 25 j 21:43	28° ℳ 36'34	
morning rise	-11792 Feb 11 j 15:32	13° ℳ 11'23		opposition	-11786 Aug 11 j 13:14	27° ℳ 12'16 -2°49'11	
	-11792 Apr 19 j 10:04	15° ℳ		min. Earth dist.	-11786 Aug 11 j 13:14	27° ℳ 12'16 28.86286 AU	
retrograde	-11792 May 11 j 17:56	15° ℳ 08'26		direct	-11786 Oct 28 j 19:56	25° ℳ 47'18	
	-11792 Jun 03 j 06:44	15° ℳ		evening set	-11785 Jan 26 j 11:16	27° ℳ 43'21	
opposition	-11792 Jul 28 j 22:43	13° ℳ 43'42 -2°33'05					
min. Earth dist.	-11792 Jul 28 j 18:55	13° ℳ 43'58 28.84767 AU		conjunction	-11785 Feb 11 j 16:20	28° ℳ 19'17 -2°39'04	
direct	-11792 Oct 14 j 19:04	12° ℳ 19'00		minimum elong	-11785 Feb 11 j 16:19	28° ℳ 19'16 2°39'38	
evening set	-11791 Jan 11 j 18:23	14° ℳ 14'14		max. Earth dist.	-11785 Feb 11 j 15:12	28° ℳ 19'10 30.86323 AU	
				morning rise	-11785 Feb 27 j 20:54	28° ℳ 55'11	
conjunction	-11791 Jan 27 j 23:57	14° ℳ 50'11 -2°24'42			-11785 Apr 01 j 16:28	0° ♂	
minimum elong	-11791 Jan 27 j 23:56	14° ℳ 50'11 2°25'10		retrograde	-11785 May 28 j 08:04	0° ♂ 51'32	

Attention, astronomical year style is used: The year -11785 in astronomical counting style is the year 11786 BCE in historical counting style.

	-11785 Jul 25 j 08:58	30° \mathbb{M}		conjunction	-11778 Feb 27 j 23:31	14° \mathbb{A} 04'26	-2°44'50
opposition	-11785 Aug 13 j 23:52	29° \mathbb{M} 27'21	-2°50'59	minimum elong	-11778 Feb 27 j 23:31	14° \mathbb{A} 04'26	2°45'27
min. Earth dist.	-11785 Aug 14 j 01:51	29° \mathbb{M} 27'12	28.86820 AU	max. Earth dist.	-11778 Feb 27 j 14:10	14° \mathbb{A} 03'33	30.88495 AU
direct	-11785 Oct 31 j 06:11	28° \mathbb{M} 02'22		morning rise	-11778 Mar 16 j 02:05	14° \mathbb{A} 40'08	
evening set	-11784 Jan 29 j 02:09	29° \mathbb{M} 58'33		retrograde	-11778 Jun 12 j 18:57	16° \mathbb{A} 35'31	
	-11784 Jan 29 j 18:03	0° \mathbb{A}		opposition	-11778 Aug 29 j 01:31	15° \mathbb{A} 11'40	-2°56'13
				min. Earth dist.	-11778 Aug 29 j 10:32	15° \mathbb{A} 11'02	28.88890 AU
conjunction	-11784 Feb 14 j 07:02	0° \mathbb{A} 34'28	-2°40'38	direct	-11778 Nov 16 j 01:37	13° \mathbb{A} 46'12	
minimum elong	-11784 Feb 14 j 07:02	0° \mathbb{A} 34'28	2°41'12	evening set	-11777 Feb 14 j 09:55	15° \mathbb{A} 43'00	
max. Earth dist.	-11784 Feb 14 j 04:20	0° \mathbb{A} 34'12	30.86842 AU				
morning rise	-11784 Mar 01 j 11:24	1° \mathbb{A} 10'21		conjunction	-11777 Mar 02 j 13:52	16° \mathbb{A} 18'49	-2°44'40
retrograde	-11784 May 29 j 20:04	3° \mathbb{A} 06'36		minimum elong	-11777 Mar 02 j 13:52	16° \mathbb{A} 18'49	2°45'19
opposition	-11784 Aug 15 j 10:22	1° \mathbb{A} 42'31	-2°52'32	max. Earth dist.	-11777 Mar 02 j 02:38	16° \mathbb{A} 17'46	30.88815 AU
min. Earth dist.	-11784 Aug 15 j 12:30	1° \mathbb{A} 42'21	28.87312 AU	morning rise	-11777 Mar 18 j 16:17	16° \mathbb{A} 54'30	
direct	-11784 Nov 01 j 19:46	0° \mathbb{A} 17'30		retrograde	-11777 Jun 15 j 07:48	18° \mathbb{A} 49'43	
evening set	-11783 Jan 30 j 17:10	2° \mathbb{A} 13'49		opposition	-11777 Aug 31 j 11:57	17° \mathbb{A} 25'55	-2°55'54
				min. Earth dist.	-11777 Aug 31 j 20:52	17° \mathbb{A} 25'17	28.89274 AU
conjunction	-11783 Feb 15 j 21:56	2° \mathbb{A} 49'43	-2°41'57	direct	-11777 Nov 18 j 13:53	16° \mathbb{A} 00'22	
minimum elong	-11783 Feb 15 j 21:55	2° \mathbb{A} 49'43	2°42'32	evening set	-11776 Feb 17 j 00:10	17° \mathbb{A} 57'15	
max. Earth dist.	-11783 Feb 15 j 17:52	2° \mathbb{A} 49'20	30.87282 AU				
morning rise	-11783 Mar 04 j 01:59	3° \mathbb{A} 25'35		conjunction	-11776 Mar 04 j 04:05	18° \mathbb{A} 33'03	-2°44'15
retrograde	-11783 Jun 01 j 07:14	5° \mathbb{A} 21'44		minimum elong	-11776 Mar 04 j 04:04	18° \mathbb{A} 33'03	2°44'53
opposition	-11783 Aug 17 j 20:58	3° \mathbb{A} 57'42	-2°53'48	max. Earth dist.	-11776 Mar 03 j 17:02	18° \mathbb{A} 32'01	30.89256 AU
min. Earth dist.	-11783 Aug 18 j 01:14	3° \mathbb{A} 57'24	28.87718 AU	morning rise	-11776 Mar 20 j 06:03	19° \mathbb{A} 08'43	
direct	-11783 Nov 04 j 07:00	2° \mathbb{A} 32'38		retrograde	-11776 Jun 16 j 17:20	21° \mathbb{A} 03'48	
evening set	-11782 Feb 02 j 08:10	4° \mathbb{A} 29'05		opposition	-11776 Sep 01 j 22:32	19° \mathbb{A} 40'04	-2°55'20
				min. Earth dist.	-11776 Sep 02 j 08:55	19° \mathbb{A} 39'20	28.89788 AU
conjunction	-11782 Feb 18 j 12:54	5° \mathbb{A} 04'58	-2°43'01	direct	-11776 Nov 20 j 01:14	18° \mathbb{A} 14'29	
minimum elong	-11782 Feb 18 j 12:53	5° \mathbb{A} 04'57	2°43'37	evening set	-11775 Feb 18 j 14:34	20° \mathbb{A} 11'26	
max. Earth dist.	-11782 Feb 18 j 07:41	5° \mathbb{A} 04'28	30.87636 AU				
morning rise	-11782 Mar 06 j 16:39	5° \mathbb{A} 40'47		conjunction	-11775 Mar 06 j 18:16	20° \mathbb{A} 47'13	-2°43'34
retrograde	-11782 Jun 03 j 19:31	7° \mathbb{A} 36'48		minimum elong	-11775 Mar 06 j 18:16	20° \mathbb{A} 47'13	2°44'14
opposition	-11782 Aug 20 j 07:32	6° \mathbb{A} 12'51	-2°54'49	max. Earth dist.	-11775 Mar 06 j 06:02	20° \mathbb{A} 46'05	30.89851 AU
min. Earth dist.	-11782 Aug 20 j 12:08	6° \mathbb{A} 12'31	28.88014 AU	morning rise	-11775 Mar 22 j 20:05	21° \mathbb{A} 22'52	
direct	-11782 Nov 06 j 20:44	4° \mathbb{A} 47'42		retrograde	-11775 Jun 19 j 04:49	23° \mathbb{A} 17'48	
evening set	-11781 Feb 04 j 23:12	6° \mathbb{A} 44'14		opposition	-11775 Sep 04 j 08:48	21° \mathbb{A} 54'10	-2°54'29
				min. Earth dist.	-11775 Sep 04 j 18:53	21° \mathbb{A} 53'27	28.90444 AU
conjunction	-11781 Feb 21 j 03:40	7° \mathbb{A} 20'06	-2°43'51	direct	-11775 Nov 22 j 14:02	20° \mathbb{A} 28'34	
minimum elong	-11781 Feb 21 j 03:40	7° \mathbb{A} 20'06	2°44'28	evening set	-11774 Feb 21 j 04:59	22° \mathbb{A} 25'37	
max. Earth dist.	-11781 Feb 20 j 20:24	7° \mathbb{A} 19'25	30.87883 AU				
morning rise	-11781 Mar 09 j 07:12	7° \mathbb{A} 55'54		conjunction	-11774 Mar 09 j 08:34	23° \mathbb{A} 01'24	-2°42'39
retrograde	-11781 Jun 06 j 07:47	9° \mathbb{A} 51'46		minimum elong	-11774 Mar 09 j 08:34	23° \mathbb{A} 01'24	2°43'19
opposition	-11781 Aug 22 j 18:08	8° \mathbb{A} 27'51	-2°55'34	max. Earth dist.	-11774 Mar 08 j 19:46	23° \mathbb{A} 00'12	30.90566 AU
min. Earth dist.	-11781 Aug 23 j 00:26	8° \mathbb{A} 27'24	28.88236 AU	morning rise	-11774 Mar 25 j 10:01	23° \mathbb{A} 37'01	
direct	-11781 Nov 09 j 09:14	7° \mathbb{A} 02'37		retrograde	-11774 Jun 21 j 15:31	25° \mathbb{A} 31'51	
evening set	-11780 Feb 07 j 13:59	8° \mathbb{A} 59'14		opposition	-11774 Sep 06 j 19:25	24° \mathbb{A} 08'19	-2°53'22
				min. Earth dist.	-11774 Sep 07 j 07:06	24° \mathbb{A} 07'29	28.91212 AU
conjunction	-11780 Feb 23 j 18:28	9° \mathbb{A} 35'05	-2°44'25	direct	-11774 Nov 25 j 00:28	22° \mathbb{A} 42'43	
minimum elong	-11780 Feb 23 j 18:28	9° \mathbb{A} 35'05	2°45'02	evening set	-11773 Feb 23 j 19:18	24° \mathbb{A} 39'51	
max. Earth dist.	-11780 Feb 23 j 11:01	9° \mathbb{A} 34'23	30.88081 AU				
morning rise	-11780 Mar 10 j 21:36	10° \mathbb{A} 10'51		conjunction	-11773 Mar 11 j 22:45	25° \mathbb{A} 15'38	-2°41'29
retrograde	-11780 Jun 07 j 19:38	12° \mathbb{A} 06'34		minimum elong	-11773 Mar 11 j 22:45	25° \mathbb{A} 15'38	2°42'10
opposition	-11780 Aug 24 j 04:38	10° \mathbb{A} 42'39	-2°56'03	max. Earth dist.	-11773 Mar 11 j 09:20	25° \mathbb{A} 14'23	30.91379 AU
min. Earth dist.	-11780 Aug 24 j 11:41	10° \mathbb{A} 42'09	28.88418 AU	morning rise	-11773 Mar 27 j 23:54	25° \mathbb{A} 51'14	
direct	-11780 Nov 10 j 23:59	9° \mathbb{A} 17'21		retrograde	-11773 Jun 24 j 03:01	27° \mathbb{A} 45'58	
evening set	-11779 Feb 09 j 04:40	11° \mathbb{A} 14'01		opposition	-11773 Sep 09 j 05:54	26° \mathbb{A} 22'33	-2°51'59
				min. Earth dist.	-11773 Sep 09 j 17:34	26° \mathbb{A} 21'43	28.92038 AU
conjunction	-11779 Feb 25 j 08:53	11° \mathbb{A} 49'51	-2°44'45	direct	-11773 Nov 27 j 13:32	24° \mathbb{A} 56'57	
minimum elong	-11779 Feb 25 j 08:53	11° \mathbb{A} 49'51	2°45'24	evening set	-11772 Feb 26 j 09:43	26° \mathbb{A} 54'12	
max. Earth dist.	-11779 Feb 24 j 23:21	11° \mathbb{A} 48'58	30.88268 AU				
morning rise	-11779 Mar 13 j 11:55	12° \mathbb{A} 25'36		conjunction	-11772 Mar 13 j 12:54	27° \mathbb{A} 29'58	-2°40'05
retrograde	-11779 Jun 10 j 07:50	14° \mathbb{A} 21'09		minimum elong	-11772 Mar 13 j 12:54	27° \mathbb{A} 29'58	2°40'45
opposition	-11779 Aug 26 j 15:05	12° \mathbb{A} 57'16	-2°56'16	max. Earth dist.	-11772 Mar 12 j 21:58	27° \mathbb{A} 28'34	30.92216 AU
min. Earth dist.	-11779 Aug 26 j 22:56	12° \mathbb{A} 56'42	28.88627 AU	morning rise	-11772 Mar 29 j 13:48	28° \mathbb{A} 05'33	
direct	-11779 Nov 13 j 12:12	11° \mathbb{A} 31'51			-11772 Jun 22 j 09:39	0° \mathbb{A}	
evening set	-11778 Feb 11 j 19:16	13° \mathbb{A} 28'36		retrograde	-11772 Jun 25 j 14:54	0° \mathbb{A} 00'11	
					-11772 Jun 28 j 20:42	30° \mathbb{R} \mathbb{A}	

Attention, astronomical year style is used: The year -11772 in astronomical counting style is the year 11773 BCE in historical counting style.

opposition	-11772 Sep 10 j 16:31	28° \mathring{A} 36'52	-2°50'21	conjunction	-11765 Mar 30 j 14:02	13° \mathring{S} 09'15	-2°23'40
min. Earth dist.	-11772 Sep 11 j 05:39	28° \mathring{A} 35'56	28.92878 AU	minimum elong	-11765 Mar 30 j 14:03	13° \mathring{S} 09'15	2°24'20
direct	-11772 Nov 29 j 01:21	27° \mathring{A} 11'17		max. Earth dist.	-11765 Mar 29 j 17:14	13° \mathring{S} 07'19	30.96534 AU
evening set	-11771 Feb 27 j 23:54	29° \mathring{A} 08'37		morning rise	-11765 Apr 15 j 12:49	13° \mathring{S} 44'40	
max. Earth dist.	-11771 Mar 15 j 11:58	29° \mathring{A} 42'58	30.93033 AU	retrograde	-11765 Jul 11 j 21:39	15° \mathring{S} 38'19	
				opposition	-11765 Sep 26 j 19:21	14° \mathring{S} 15'25	-2°31'58
conjunction	-11771 Mar 16 j 03:04	29° \mathring{A} 44'23	-2°38'25	min. Earth dist.	-11765 Sep 27 j 14:21	14° \mathring{S} 14'04	28.97061 AU
minimum elong	-11771 Mar 16 j 03:05	29° \mathring{A} 44'23	2°39'06	direct	-11765 Dec 15 j 19:15	12° \mathring{S} 49'34	
	-11771 Mar 23 j 02:42	0° \mathring{S}		evening set	-11764 Mar 16 j 01:30	14° \mathring{S} 47'06	
morning rise	-11771 Apr 01 j 03:36	0° \mathring{S} 19'56		max. Earth dist.	-11764 Mar 31 j 06:14	15° \mathring{S} 20'48	30.97205 AU
retrograde	-11771 Jun 28 j 02:30	2° \mathring{S} 14'28					
opposition	-11771 Sep 13 j 03:13	0° \mathring{S} 51'15	-2°48'27	conjunction	-11764 Apr 01 j 03:20	15° \mathring{S} 22'46	-2°20'27
min. Earth dist.	-11771 Sep 13 j 17:10	0° \mathring{S} 50'16	28.93644 AU	minimum elong	-11764 Apr 01 j 03:21	15° \mathring{S} 22'46	2°21'06
	-11771 Oct 15 j 12:00	30° \mathring{R} \mathring{A}		morning rise	-11764 Apr 17 j 01:52	15° \mathring{S} 58'10	
direct	-11771 Dec 01 j 15:45	29° \mathring{A} 25'39		retrograde	-11764 Jul 13 j 07:27	17° \mathring{S} 51'40	
	-11770 Jan 17 j 00:25	0° \mathring{S}		opposition	-11764 Sep 28 j 05:56	16° \mathring{S} 28'49	-2°28'24
evening set	-11770 Mar 02 j 14:21	1° \mathring{S} 23'05		min. Earth dist.	-11764 Sep 29 j 00:27	16° \mathring{S} 27'31	28.97782 AU
				direct	-11764 Dec 17 j 08:35	15° \mathring{S} 02'56	
conjunction	-11770 Mar 18 j 17:11	1° \mathring{S} 58'49	-2°36'32	evening set	-11763 Mar 18 j 14:55	17° \mathring{S} 00'29	
minimum elong	-11770 Mar 18 j 17:11	1° \mathring{S} 58'49	2°37'11				
max. Earth dist.	-11770 Mar 17 j 23:53	1° \mathring{S} 57'13	30.93760 AU	conjunction	-11763 Apr 03 j 16:31	17° \mathring{S} 36'09	-2°17'01
morning rise	-11770 Apr 03 j 17:32	2° \mathring{S} 34'22		minimum elong	-11763 Apr 03 j 16:32	17° \mathring{S} 36'09	2°17'40
retrograde	-11770 Jun 30 j 14:55	4° \mathring{S} 28'46		max. Earth dist.	-11763 Apr 02 j 18:32	17° \mathring{S} 34'05	30.97999 AU
opposition	-11770 Sep 15 j 13:52	3° \mathring{S} 05'38	-2°46'18	morning rise	-11763 Apr 19 j 14:47	18° \mathring{S} 11'31	
min. Earth dist.	-11770 Sep 16 j 04:42	3° \mathring{S} 04'35	28.94327 AU	retrograde	-11763 Jul 15 j 17:51	20° \mathring{S} 04'54	
direct	-11770 Dec 04 j 03:46	1° \mathring{S} 40'01		opposition	-11763 Sep 30 j 16:41	18° \mathring{S} 42'06	-2°24'37
evening set	-11769 Mar 05 j 04:32	3° \mathring{S} 37'29		min. Earth dist.	-11763 Oct 01 j 12:02	18° \mathring{S} 40'44	28.98645 AU
				direct	-11763 Dec 19 j 19:57	17° \mathring{S} 16'13	
conjunction	-11769 Mar 21 j 07:22	4° \mathring{S} 13'14	-2°34'24	evening set	-11762 Mar 21 j 04:12	19° \mathring{S} 13'47	
minimum elong	-11769 Mar 21 j 07:23	4° \mathring{S} 13'14	2°35'05	max. Earth dist.	-11762 Apr 05 j 08:10	19° \mathring{S} 47'25	30.98937 AU
max. Earth dist.	-11769 Mar 20 j 14:06	4° \mathring{S} 11'37	30.94394 AU				
morning rise	-11769 Apr 06 j 07:15	4° \mathring{S} 48'44		conjunction	-11762 Apr 06 j 05:42	19° \mathring{S} 49'26	-2°13'22
retrograde	-11769 Jul 03 j 02:26	6° \mathring{S} 43'00		minimum elong	-11762 Apr 06 j 05:42	19° \mathring{S} 49'26	2°14'01
opposition	-11769 Sep 18 j 00:42	5° \mathring{S} 19'56	-2°43'54	morning rise	-11762 Apr 22 j 03:34	20° \mathring{S} 24'47	
min. Earth dist.	-11769 Sep 18 j 16:52	5° \mathring{S} 18'47	28.94908 AU	retrograde	-11762 Jul 18 j 04:11	22° \mathring{S} 18'03	
direct	-11769 Dec 06 j 18:01	3° \mathring{S} 54'17		opposition	-11762 Oct 03 j 03:25	20° \mathring{S} 55'20	-2°20'38
evening set	-11768 Mar 06 j 18:34	5° \mathring{S} 51'47		min. Earth dist.	-11762 Oct 03 j 22:57	20° \mathring{S} 53'58	28.99624 AU
				direct	-11762 Dec 22 j 09:14	19° \mathring{S} 29'29	
conjunction	-11768 Mar 22 j 21:04	6° \mathring{S} 27'31	-2°32'03	evening set	-11761 Mar 23 j 17:35	21° \mathring{S} 27'05	
minimum elong	-11768 Mar 22 j 21:05	6° \mathring{S} 27'31	2°32'43				
max. Earth dist.	-11768 Mar 22 j 01:44	6° \mathring{S} 25'43	30.94952 AU	conjunction	-11761 Apr 08 j 18:42	22° \mathring{S} 02'42	-2°09'32
morning rise	-11768 Apr 07 j 20:51	7° \mathring{S} 03'00		minimum elong	-11761 Apr 08 j 18:43	22° \mathring{S} 02'42	2°10'11
retrograde	-11768 Jul 04 j 15:08	8° \mathring{S} 57'07		max. Earth dist.	-11761 Apr 07 j 19:54	22° \mathring{S} 00'34	30.99984 AU
opposition	-11768 Sep 19 j 11:20	7° \mathring{S} 34'05	-2°41'16	morning rise	-11761 Apr 24 j 16:24	22° \mathring{S} 38'02	
min. Earth dist.	-11768 Sep 20 j 03:35	7° \mathring{S} 32'57	28.95434 AU	retrograde	-11761 Jul 20 j 16:22	24° \mathring{S} 31'13	
direct	-11768 Dec 08 j 07:15	6° \mathring{S} 08'23		opposition	-11761 Oct 05 j 14:15	23° \mathring{S} 08'35	-2°16'25
evening set	-11767 Mar 09 j 08:28	8° \mathring{S} 05'55		min. Earth dist.	-11761 Oct 06 j 10:00	23° \mathring{S} 07'12	29.00711 AU
				direct	-11761 Dec 24 j 20:30	21° \mathring{S} 42'46	
conjunction	-11767 Mar 25 j 10:57	8° \mathring{S} 41'38	-2°29'28	evening set	-11760 Mar 25 j 06:34	23° \mathring{S} 40'23	
minimum elong	-11767 Mar 25 j 10:58	8° \mathring{S} 41'38	2°30'09	max. Earth dist.	-11760 Apr 09 j 09:33	24° \mathring{S} 13'56	31.01098 AU
max. Earth dist.	-11767 Mar 24 j 15:39	8° \mathring{S} 39'50	30.95459 AU				
morning rise	-11767 Apr 10 j 10:18	9° \mathring{S} 17'06		conjunction	-11760 Apr 10 j 07:38	24° \mathring{S} 16'00	-2°05'30
retrograde	-11767 Jul 07 j 00:25	11° \mathring{S} 11'03		minimum elong	-11760 Apr 10 j 07:39	24° \mathring{S} 16'00	2°06'07
opposition	-11767 Sep 21 j 21:57	9° \mathring{S} 48'04	-2°38'24	morning rise	-11760 Apr 26 j 04:53	24° \mathring{S} 51'18	
min. Earth dist.	-11767 Sep 22 j 15:58	9° \mathring{S} 46'48	28.95930 AU	retrograde	-11760 Jul 22 j 03:28	26° \mathring{S} 44'24	
direct	-11767 Dec 10 j 19:40	8° \mathring{S} 22'19		opposition	-11760 Oct 07 j 01:11	25° \mathring{S} 21'52	-2°12'00
evening set	-11766 Mar 11 j 22:24	10° \mathring{S} 19'51		min. Earth dist.	-11760 Oct 07 j 21:57	25° \mathring{S} 20'25	29.01815 AU
max. Earth dist.	-11766 Mar 27 j 03:57	10° \mathring{S} 53'37	30.95977 AU	direct	-11760 Dec 26 j 10:43	23° \mathring{S} 56'06	
				evening set	-11759 Mar 27 j 19:52	25° \mathring{S} 53'44	
conjunction	-11766 Mar 28 j 00:36	10° \mathring{S} 55'33	-2°26'41				
minimum elong	-11766 Mar 28 j 00:36	10° \mathring{S} 55'33	2°27'20	conjunction	-11759 Apr 12 j 20:31	26° \mathring{S} 29'20	-2°01'17
morning rise	-11766 Apr 12 j 23:47	11° \mathring{S} 30'59		minimum elong	-11759 Apr 12 j 20:32	26° \mathring{S} 29'20	2°01'54
retrograde	-11766 Jul 09 j 11:32	13° \mathring{S} 24'47		max. Earth dist.	-11759 Apr 11 j 20:42	26° \mathring{S} 27'07	31.02204 AU
opposition	-11766 Sep 24 j 08:34	12° \mathring{S} 01'50	-2°35'18	morning rise	-11759 Apr 28 j 17:37	27° \mathring{S} 04'37	
min. Earth dist.	-11766 Sep 25 j 02:13	12° \mathring{S} 00'35	28.96456 AU	retrograde	-11759 Jul 24 j 16:00	28° \mathring{S} 57'37	
direct	-11766 Dec 13 j 08:50	10° \mathring{S} 36'02		opposition	-11759 Oct 09 j 11:59	27° \mathring{S} 35'11	-2°07'24
evening set	-11765 Mar 14 j 12:00	12° \mathring{S} 33'34		min. Earth dist.	-11759 Oct 10 j 08:40	27° \mathring{S} 33'44	29.02889 AU

Attention, astronomical year style is used: The year -11758 in astronomical counting style is the year 11759 BCE in historical counting style.

direct	-11759 Dec 28 j 23:52	26° Z 09'26		conjunction	-11752 Apr 28 j 12:11	12° Z 00'21	-1°27'11
evening set	-11758 Mar 30 j 09:03	28° Z 07'06		minimum elong	-11752 Apr 28 j 12:11	12° Z 00'21	1°27'42
max. Earth dist.	-11758 Apr 14 j 09:59	28° Z 40'29	31.03237 AU	morning rise	-11752 May 14 j 06:52	12° Z 35'28	
				retrograde	-11752 Aug 08 j 16:27	14° Z 27'46	
conjunction	-11758 Apr 15 j 09:35	28° Z 42'41	-1°56'53	opposition	-11752 Oct 24 j 17:55	13° Z 05'36	-1°30'24
minimum elong	-11758 Apr 15 j 09:36	28° Z 42'41	1°57'28	min. Earth dist.	-11752 Oct 25 j 17:57	13° Z 03'55	29.08144 AU
morning rise	-11758 May 01 j 06:10	29° Z 17'57		direct	-11751 Jan 13 j 14:30	11° Z 39'50	
	-11758 May 21 j 13:16	0° Z		evening set	-11751 Apr 15 j 01:46	13° Z 37'16	
retrograde	-11758 Jul 27 j 02:04	1° Z 10'51		max. Earth dist.	-11751 Apr 29 j 22:19	14° Z 10'17	31.08429 AU
	-11758 Oct 05 j 02:09	30° R 3					
opposition	-11758 Oct 11 j 23:12	29° Z 48'30	-2°02'36	conjunction	-11751 May 01 j 00:11	14° Z 12'42	-1°21'46
min. Earth dist.	-11758 Oct 12 j 21:31	29° Z 46'56	29.03867 AU	minimum elong	-11751 May 01 j 00:12	14° Z 12'42	1°22'16
direct	-11758 Dec 31 j 12:33	28° Z 22'46		morning rise	-11751 May 16 j 18:20	14° Z 47'47	
	-11757 Mar 23 j 08:36	0° Z			-11751 May 22 j 10:00	15° Z	
evening set	-11757 Apr 01 j 22:09	0° Z 20'26		retrograde	-11751 Aug 11 j 02:47	16° Z 40'01	
				opposition	-11751 Oct 27 j 05:05	15° Z 17'53	-1°24'32
conjunction	-11757 Apr 17 j 22:16	0° Z 56'00	-1°52'18	min. Earth dist.	-11751 Oct 28 j 05:35	15° Z 16'11	29.08933 AU
minimum elong	-11757 Apr 17 j 22:17	0° Z 56'00	1°52'54		-11751 Nov 07 j 00:09	15° R	
max. Earth dist.	-11757 Apr 16 j 21:20	0° Z 53'40	31.04172 AU	direct	-11750 Jan 16 j 04:38	13° Z 52'09	
morning rise	-11757 May 03 j 18:39	1° Z 31'14			-11750 Mar 24 j 07:59	15° Z	
retrograde	-11757 Jul 29 j 13:46	3° Z 24'02		evening set	-11750 Apr 17 j 14:05	15° Z 49'34	
opposition	-11757 Oct 14 j 10:17	2° Z 01'44	-1°57'37	max. Earth dist.	-11750 May 02 j 09:05	16° Z 22'28	31.09288 AU
min. Earth dist.	-11757 Oct 15 j 08:15	2° Z 00'12	29.04732 AU				
direct	-11756 Jan 03 j 02:07	0° Z 36'01		conjunction	-11750 May 03 j 11:57	16° Z 24'58	-1°16'13
evening set	-11756 Apr 03 j 11:09	2° Z 33'39		minimum elong	-11750 May 03 j 11:57	16° Z 24'58	1°16'43
max. Earth dist.	-11756 Apr 18 j 09:52	3° Z 06'51	31.04985 AU	morning rise	-11750 May 19 j 05:52	17° Z 00'01	
				retrograde	-11750 Aug 13 j 14:49	18° Z 52'12	
conjunction	-11756 Apr 19 j 11:04	3° Z 09'12	-1°47'34	opposition	-11750 Oct 29 j 16:18	17° Z 30'07	-1°18'33
minimum elong	-11756 Apr 19 j 11:05	3° Z 09'12	1°48'09	min. Earth dist.	-11750 Oct 30 j 15:53	17° Z 28'29	29.09841 AU
morning rise	-11756 May 05 j 07:01	3° Z 44'25		direct	-11749 Jan 18 j 17:16	16° Z 04'25	
retrograde	-11756 Jul 31 j 00:00	5° Z 37'07		evening set	-11749 Apr 20 j 01:59	18° Z 01'50	
opposition	-11756 Oct 15 j 21:23	4° Z 14'52	-1°52'29				
min. Earth dist.	-11756 Oct 16 j 20:54	4° Z 13'13	29.05494 AU	conjunction	-11749 May 05 j 23:37	18° Z 37'12	-1°10'34
direct	-11755 Jan 04 j 13:17	2° Z 49'08		minimum elong	-11749 May 05 j 23:38	18° Z 37'12	1°11'03
evening set	-11755 Apr 05 j 24:00	4° Z 46'45		max. Earth dist.	-11749 May 04 j 21:51	18° Z 34'48	31.10250 AU
				morning rise	-11749 May 21 j 16:59	19° Z 12'14	
conjunction	-11755 Apr 21 j 23:39	5° Z 22'16	-1°42'41	retrograde	-11749 Aug 16 j 00:47	21° Z 04'23	
minimum elong	-11755 Apr 21 j 23:40	5° Z 22'16	1°43'16	opposition	-11749 Nov 01 j 03:43	19° Z 42'22	-1°12'27
max. Earth dist.	-11755 Apr 20 j 21:53	5° Z 19'52	31.05713 AU	min. Earth dist.	-11749 Nov 02 j 04:14	19° Z 40'40	29.10838 AU
morning rise	-11755 May 07 j 19:20	5° Z 57'28		direct	-11748 Jan 21 j 05:43	18° Z 16'44	
retrograde	-11755 Aug 02 j 09:36	7° Z 50'02		evening set	-11748 Apr 21 j 14:03	20° Z 14'07	
opposition	-11755 Oct 18 j 08:27	6° Z 27'49	-1°47'11	max. Earth dist.	-11748 May 06 j 08:49	20° Z 47'01	31.11292 AU
min. Earth dist.	-11755 Oct 19 j 07:42	6° Z 26'12	29.06163 AU				
direct	-11754 Jan 07 j 03:08	5° Z 02'05		conjunction	-11748 May 07 j 11:11	20° Z 49'29	-1°04'49
evening set	-11754 Apr 08 j 12:45	6° Z 59'39		minimum elong	-11748 May 07 j 11:12	20° Z 49'29	1°05'16
max. Earth dist.	-11754 Apr 23 j 09:26	7° Z 32'40	31.06361 AU	morning rise	-11748 May 23 j 04:18	21° Z 24'29	
				retrograde	-11748 Aug 17 j 12:46	23° Z 16'35	
conjunction	-11754 Apr 24 j 12:03	7° Z 35'09	-1°37'39	opposition	-11748 Nov 02 j 14:51	21° Z 54'39	-1°06'15
minimum elong	-11754 Apr 24 j 12:03	7° Z 35'09	1°38'12	min. Earth dist.	-11748 Nov 03 j 14:30	21° Z 53'00	29.11882 AU
morning rise	-11754 May 10 j 07:22	8° Z 10'19		direct	-11747 Jan 22 j 19:20	20° Z 29'05	
retrograde	-11754 Aug 04 j 19:31	10° Z 02'48		evening set	-11747 Apr 24 j 02:00	22° Z 26'28	
opposition	-11754 Oct 20 j 19:37	8° Z 40'36	-1°41'43				
min. Earth dist.	-11754 Oct 21 j 19:44	8° Z 38'55	29.06798 AU	conjunction	-11747 May 09 j 22:49	23° Z 01'48	-0°58'57
direct	-11753 Jan 09 j 14:15	7° Z 14'50		minimum elong	-11747 May 09 j 22:50	23° Z 01'48	0°59'23
evening set	-11753 Apr 11 j 01:15	9° Z 12'22		max. Earth dist.	-11747 May 08 j 20:46	22° Z 59'22	31.12334 AU
max. Earth dist.	-11753 Apr 25 j 22:16	9° Z 45'25	31.07004 AU	morning rise	-11747 May 25 j 15:25	23° Z 36'47	
				retrograde	-11747 Aug 19 j 23:30	25° Z 28'52	
conjunction	-11753 Apr 27 j 00:19	9° Z 47'51	-1°32'29	opposition	-11747 Nov 05 j 02:22	24° Z 07'00	-0°59'56
minimum elong	-11753 Apr 27 j 00:20	9° Z 47'51	1°33'01	min. Earth dist.	-11747 Nov 06 j 03:10	24° Z 05'17	29.12906 AU
morning rise	-11753 May 12 j 19:14	10° Z 22'59		direct	-11746 Jan 25 j 07:00	22° Z 41'30	
retrograde	-11753 Aug 07 j 05:07	12° Z 15'22		evening set	-11746 Apr 26 j 13:56	24° Z 38'52	
opposition	-11753 Oct 23 j 06:48	10° Z 53'11	-1°36'08	max. Earth dist.	-11746 May 11 j 08:07	25° Z 11'43	31.13332 AU
min. Earth dist.	-11753 Oct 24 j 06:57	10° Z 51'30	29.07436 AU				
direct	-11752 Jan 12 j 03:08	9° Z 27'25		conjunction	-11746 May 12 j 10:16	25° Z 14'10	-0°53'01
evening set	-11752 Apr 12 j 13:34	11° Z 24'54		minimum elong	-11746 May 12 j 10:16	25° Z 14'10	0°53'25
max. Earth dist.	-11752 Apr 27 j 09:11	11° Z 57'49	31.07676 AU	morning rise	-11746 May 28 j 02:29	25° Z 49'07	
				retrograde	-11746 Aug 22 j 08:49	27° Z 41'11	

Attention, astronomical year style is used: The year -11746 in astronomical counting style is the year 11747 BCE in historical counting style.

opposition	-11746 Nov 07 j 13:55	26° \approx 19'22	-0°53'33	conjunction	-11739 May 27 j 15:19	10° \mathbb{H} 37'20	-0°09'56
min. Earth dist.	-11746 Nov 08 j 14:07	26° \approx 17'41	29.13844 AU	minimum elong	-11739 May 27 j 15:19	10° \mathbb{H} 37'20	0°10'11
direct	-11745 Jan 27 j 20:34	24° \approx 53'55		behind sun begin	-11739 May 27 j 10:09	10° \mathbb{H} 36'52	
evening set	-11745 Apr 29 j 01:50	26° \approx 51'14		behind sun end	-11739 May 27 j 20:30	10° \mathbb{H} 37'47	
				max. Earth dist.	-11739 May 26 j 13:16	10° \mathbb{H} 34'53	31.17594 AU
conjunction	-11745 May 14 j 21:41	27° \approx 26'31	-0°47'00	morning rise	-11739 Jun 12 j 04:24	11° \mathbb{H} 12'02	
minimum elong	-11745 May 14 j 21:42	27° \approx 26'31	0°47'23	retrograde	-11739 Sep 06 j 09:07	13° \mathbb{H} 03'54	
max. Earth dist.	-11745 May 13 j 18:54	27° \approx 24'01	31.14218 AU	opposition	-11739 Nov 22 j 23:36	11° \mathbb{H} 42'00	-0°07'19
morning rise	-11745 May 30 j 13:27	28° \approx 01'26		min. Earth dist.	-11739 Nov 23 j 23:19	11° \mathbb{H} 40'22	29.17905 AU
retrograde	-11745 Aug 24 j 18:50	29° \approx 53'29		direct	-11738 Feb 12 j 11:38	10° \mathbb{H} 16'38	
opposition	-11745 Nov 10 j 01:33	28° \approx 31'41	-0°47'04	evening set	-11738 May 14 j 09:21	12° \mathbb{H} 13'26	
min. Earth dist.	-11745 Nov 11 j 02:27	28° \approx 29'58	29.14680 AU	max. Earth dist.	-11738 May 29 j 00:38	12° \mathbb{H} 46'05	31.18175 AU
direct	-11744 Jan 30 j 07:14	27° \approx 06'17					
evening set	-11744 Apr 30 j 13:28	29° \approx 03'33		conjunction	-11738 May 30 j 01:46	12° \mathbb{H} 48'26	-0°03'42
max. Earth dist.	-11744 May 15 j 06:44	29° \approx 36'20	31.14993 AU	minimum elong	-11738 May 30 j 01:44	12° \mathbb{H} 48'26	0°03'56
				behind sun begin	-11738 May 29 j 19:22	12° \mathbb{H} 47'51	
conjunction	-11744 May 16 j 08:58	29° \approx 38'48	-0°40'55	behind sun end	-11738 May 30 j 08:07	12° \mathbb{H} 49'00	
minimum elong	-11744 May 16 j 08:59	29° \approx 38'48	0°41'17	morning rise	-11738 Jun 14 j 14:12	13° \mathbb{H} 23'06	
	-11744 May 25 j 19:51	0° \mathbb{H}		retrograde	-11738 Sep 08 j 19:24	15° \mathbb{H} 14'59	
morning rise	-11744 Jun 01 j 00:16	0° \mathbb{H} 13'41		opposition	-11738 Nov 25 j 11:30	13° \mathbb{H} 53'04	-0°00'37
retrograde	-11744 Aug 26 j 04:11	2° \mathbb{H} 05'42		min. Earth dist.	-11738 Nov 26 j 11:34	13° \mathbb{H} 51'25	29.18546 AU
opposition	-11744 Nov 11 j 13:14	0° \mathbb{H} 43'55	-0°40'33	asc. node	-11738 Dec 28 j 13:23	13° \mathbb{H} 02'18	
min. Earth dist.	-11744 Nov 12 j 14:13	0° \mathbb{H} 42'12	29.15371 AU	direct	-11737 Feb 14 j 23:38	12° \mathbb{H} 27'46	
	-11744 Dec 09 j 11:13	30° \mathbb{R}		evening set	-11737 May 16 j 20:15	14° \mathbb{H} 24'29	
direct	-11743 Jan 31 j 19:51	29° \approx 18'32		max. Earth dist.	-11737 May 31 j 11:43	14° \mathbb{H} 57'10	31.18879 AU
	-11743 Mar 24 j 11:56	0° \mathbb{H}					
evening set	-11743 May 03 j 01:15	1° \mathbb{H} 15'43		conjunction	-11737 Jun 01 j 12:05	14° \mathbb{H} 59'27	0°02'43
				minimum elong	-11737 Jun 01 j 12:05	14° \mathbb{H} 59'27	0°02'30
conjunction	-11743 May 18 j 20:08	1° \mathbb{H} 50'56	-0°34'47	behind sun begin	-11737 Jun 01 j 05:39	14° \mathbb{H} 58'52	
minimum elong	-11743 May 18 j 20:09	1° \mathbb{H} 50'56	0°35'08	behind sun end	-11737 Jun 01 j 18:31	15° \mathbb{H} 00'02	
max. Earth dist.	-11743 May 17 j 16:48	1° \mathbb{H} 48'22	31.15628 AU	morning rise	-11737 Jun 17 j 00:05	15° \mathbb{H} 34'05	
morning rise	-11743 Jun 03 j 11:05	2° \mathbb{H} 25'48		retrograde	-11737 Sep 11 j 04:44	17° \mathbb{H} 26'00	
retrograde	-11743 Aug 28 j 15:01	4° \mathbb{H} 17'46		opposition	-11737 Nov 27 j 23:14	16° \mathbb{H} 04'07	0°06'05
opposition	-11743 Nov 14 j 00:47	2° \mathbb{H} 55'59	-0°33'58	min. Earth dist.	-11737 Nov 28 j 21:56	16° \mathbb{H} 02'33	29.19292 AU
min. Earth dist.	-11743 Nov 15 j 01:44	2° \mathbb{H} 54'16	29.15952 AU	direct	-11736 Feb 17 j 12:49	14° \mathbb{H} 38'52	
direct	-11742 Feb 03 j 07:28	1° \mathbb{H} 30'36		evening set	-11736 May 18 j 07:01	16° \mathbb{H} 35'33	
evening set	-11742 May 05 j 12:45	3° \mathbb{H} 27'42					
max. Earth dist.	-11742 May 20 j 05:05	4° \mathbb{H} 00'25	31.16162 AU	conjunction	-11736 Jun 02 j 22:16	17° \mathbb{H} 10'29	0°08'58
				minimum elong	-11736 Jun 02 j 22:16	17° \mathbb{H} 10'29	0°08'47
conjunction	-11742 May 21 j 07:19	4° \mathbb{H} 02'53	-0°28'36	behind sun begin	-11736 Jun 02 j 16:41	17° \mathbb{H} 09'59	
minimum elong	-11742 May 21 j 07:19	4° \mathbb{H} 02'53	0°28'56	behind sun end	-11736 Jun 03 j 03:51	17° \mathbb{H} 10'59	
morning rise	-11742 Jun 05 j 21:39	4° \mathbb{H} 37'42		max. Earth dist.	-11736 Jun 01 j 22:00	17° \mathbb{H} 08'13	31.19669 AU
retrograde	-11742 Aug 31 j 00:31	6° \mathbb{H} 29'38		morning rise	-11736 Jun 18 j 09:50	17° \mathbb{H} 45'05	
opposition	-11742 Nov 16 j 12:37	5° \mathbb{H} 07'49	-0°27'20	retrograde	-11736 Sep 12 j 14:59	19° \mathbb{H} 37'03	
min. Earth dist.	-11742 Nov 17 j 14:04	5° \mathbb{H} 06'05	29.16439 AU	opposition	-11736 Nov 29 j 11:06	18° \mathbb{H} 15'12	0°12'46
direct	-11741 Feb 05 j 20:47	3° \mathbb{H} 42'27		min. Earth dist.	-11736 Nov 30 j 09:48	18° \mathbb{H} 13'39	29.20120 AU
evening set	-11741 May 08 j 00:06	5° \mathbb{H} 39'28		direct	-11735 Feb 18 j 23:26	16° \mathbb{H} 50'03	
				evening set	-11735 May 20 j 17:44	18° \mathbb{H} 46'41	
conjunction	-11741 May 23 j 18:00	6° \mathbb{H} 14'35	-0°22'24	max. Earth dist.	-11735 Jun 04 j 09:30	19° \mathbb{H} 19'26	31.20513 AU
minimum elong	-11741 May 23 j 18:00	6° \mathbb{H} 14'36	0°22'42				
max. Earth dist.	-11741 May 22 j 14:56	6° \mathbb{H} 12'03	31.16634 AU	conjunction	-11735 Jun 05 j 08:30	19° \mathbb{H} 21'35	0°15'11
morning rise	-11741 Jun 08 j 08:03	6° \mathbb{H} 49'23		minimum elong	-11735 Jun 05 j 08:29	19° \mathbb{H} 21'35	0°15'03
retrograde	-11741 Sep 02 j 11:55	8° \mathbb{H} 41'17		behind sun begin	-11735 Jun 05 j 06:04	19° \mathbb{H} 21'22	
opposition	-11741 Nov 19 j 00:16	7° \mathbb{H} 19'26	-0°20'41	behind sun end	-11735 Jun 05 j 10:54	19° \mathbb{H} 21'48	
min. Earth dist.	-11741 Nov 20 j 00:42	7° \mathbb{H} 17'45	29.16897 AU	morning rise	-11735 Jun 20 j 19:26	19° \mathbb{H} 56'09	
direct	-11740 Feb 08 j 08:48	5° \mathbb{H} 54'03		retrograde	-11735 Sep 15 j 00:18	21° \mathbb{H} 48'11	
evening set	-11740 May 09 j 11:15	7° \mathbb{H} 50'59		opposition	-11735 Dec 01 j 23:03	20° \mathbb{H} 26'22	0°19'27
max. Earth dist.	-11740 May 24 j 02:56	8° \mathbb{H} 23'39	31.17089 AU	min. Earth dist.	-11735 Dec 02 j 21:18	20° \mathbb{H} 24'51	29.20954 AU
				direct	-11734 Feb 21 j 11:42	19° \mathbb{H} 01'19	
conjunction	-11740 May 25 j 04:48	8° \mathbb{H} 26'04	-0°16'10	evening set	-11734 May 23 j 04:36	20° \mathbb{H} 57'56	
minimum elong	-11740 May 25 j 04:48	8° \mathbb{H} 26'04	0°16'27				
morning rise	-11740 Jun 09 j 18:14	9° \mathbb{H} 00'49		conjunction	-11734 Jun 07 j 18:36	21° \mathbb{H} 32'47	0°21'25
retrograde	-11740 Sep 03 j 21:34	10° \mathbb{H} 52'42		minimum elong	-11734 Jun 07 j 18:36	21° \mathbb{H} 32'47	0°21'17
opposition	-11740 Nov 20 j 11:55	9° \mathbb{H} 30'49	-0°14'00	max. Earth dist.	-11734 Jun 06 j 19:06	21° \mathbb{H} 30'34	31.21339 AU
min. Earth dist.	-11740 Nov 21 j 13:06	9° \mathbb{H} 29'05	29.17367 AU	morning rise	-11734 Jun 23 j 05:09	22° \mathbb{H} 07'20	
direct	-11739 Feb 09 j 21:37	8° \mathbb{H} 05'26		retrograde	-11734 Sep 17 j 11:32	23° \mathbb{H} 59'26	
evening set	-11739 May 11 j 22:26	10° \mathbb{H} 02'17		opposition	-11734 Dec 04 j 11:09	22° \mathbb{H} 37'39	0°26'06

Attention, astronomical year style is used: The year -11734 in astronomical counting style is the year 11735 BCE in historical counting style.

min. Earth dist.	-11734 Dec 05 j 08:51	22° H 36'10	29.21766 AU	evening set	-11727 Jun 07 j 05:47	6° Y 16'20	
direct	-11733 Feb 23 j 22:26	21° H 12'41					
evening set	-11733 May 25 j 15:09	23° H 09'15		conjunction	-11727 Jun 22 j 15:32	6° Y 50'52	1°03'35
max. Earth dist.	-11733 Jun 09 j 06:41	23° H 42'00	31.22103 AU	minimum elong	-11727 Jun 22 j 15:31	6° Y 50'52	1°03'38
				max. Earth dist.	-11727 Jun 21 j 19:23	6° Y 48'58	31.24525 AU
conjunction	-11733 Jun 10 j 04:43	23° H 44'04	0°27'37	morning rise	-11727 Jul 07 j 22:26	7° Y 25'09	
minimum elong	-11733 Jun 10 j 04:42	23° H 44'04	0°27'30	retrograde	-11727 Oct 02 j 13:41	9° Y 17'40	
morning rise	-11733 Jun 25 j 14:35	24° H 18'34		opposition	-11727 Dec 20 j 00:50	7° Y 55'41	1°10'56
retrograde	-11733 Sep 19 j 21:14	26° H 10'46		min. Earth dist.	-11727 Dec 20 j 19:48	7° Y 54'24	29.24736 AU
opposition	-11733 Dec 06 j 23:23	24° H 49'00	0°32'42	direct	-11726 Mar 11 j 13:11	6° Y 31'01	
min. Earth dist.	-11733 Dec 07 j 21:23	24° H 47'30	29.22479 AU	evening set	-11726 Jun 09 j 15:46	8° Y 27'02	
direct	-11732 Feb 26 j 10:27	23° H 24'07		max. Earth dist.	-11726 Jun 24 j 06:38	8° Y 59'47	31.24843 AU
evening set	-11732 May 27 j 01:57	25° H 20'38					
				conjunction	-11726 Jun 25 j 01:01	9° Y 01'30	1°09'17
conjunction	-11732 Jun 11 j 14:45	25° H 55'24	0°33'46	minimum elong	-11726 Jun 25 j 01:00	9° Y 01'30	1°09'22
minimum elong	-11732 Jun 11 j 14:44	25° H 55'24	0°33'41	morning rise	-11726 Jul 10 j 07:17	9° Y 35'45	
max. Earth dist.	-11732 Jun 10 j 15:56	25° H 53'15	31.22760 AU	retrograde	-11726 Oct 04 j 22:44	11° Y 28'21	
morning rise	-11732 Jun 27 j 00:16	26° H 29'52		opposition	-11726 Dec 22 j 13:15	10° Y 06'19	1°16'59
retrograde	-11732 Sep 21 j 08:55	28° H 22'07		min. Earth dist.	-11726 Dec 23 j 07:09	10° Y 05'07	29.25097 AU
opposition	-11732 Dec 08 j 11:22	27° H 00'21	0°39'15	direct	-11725 Mar 14 j 02:20	8° Y 41'42	
min. Earth dist.	-11732 Dec 09 j 08:18	26° H 58'56	29.23079 AU	evening set	-11725 Jun 12 j 01:43	10° Y 37'38	
direct	-11731 Feb 27 j 21:09	25° H 35'32					
evening set	-11731 May 29 j 12:35	27° H 32'00		conjunction	-11725 Jun 27 j 10:12	11° Y 12'03	1°14'54
max. Earth dist.	-11731 Jun 13 j 03:08	28° H 04'40	31.23285 AU	minimum elong	-11725 Jun 27 j 10:11	11° Y 12'03	1°15'00
				max. Earth dist.	-11725 Jun 26 j 15:51	11° Y 10'19	31.25251 AU
conjunction	-11731 Jun 14 j 00:54	28° H 06'43	0°39'52	morning rise	-11725 Jul 12 j 16:07	11° Y 46'16	
minimum elong	-11731 Jun 14 j 00:53	28° H 06'43	0°39'48	retrograde	-11725 Oct 07 j 09:11	13° Y 38'58	
morning rise	-11731 Jun 29 j 09:43	28° H 41'10		opposition	-11725 Dec 25 j 01:38	12° Y 16'54	1°22'55
	-11731 Aug 10 j 03:02	0° Y		min. Earth dist.	-11725 Dec 25 j 18:18	12° Y 15'46	29.25567 AU
retrograde	-11731 Sep 23 j 19:15	0° Y 33'28		direct	-11724 Mar 15 j 12:53	10° Y 52'21	
	-11731 Nov 09 j 07:58	30° R H		evening set	-11724 Jun 13 j 11:34	12° Y 48'12	
opposition	-11731 Dec 10 j 23:44	29° H 11'41	0°45'45				
min. Earth dist.	-11731 Dec 11 j 21:24	29° H 10'13	29.23546 AU	conjunction	-11724 Jun 28 j 19:37	13° Y 22'35	1°20'24
direct	-11730 Mar 02 j 09:46	27° H 46'55		minimum elong	-11724 Jun 28 j 19:36	13° Y 22'35	1°20'31
evening set	-11730 May 31 j 23:05	29° H 43'18		max. Earth dist.	-11724 Jun 28 j 03:17	13° Y 21'03	31.25754 AU
	-11730 Jun 08 j 11:27	0° Y		morning rise	-11724 Jul 14 j 00:52	13° Y 56'46	
				retrograde	-11724 Oct 08 j 18:06	15° Y 49'34	
conjunction	-11730 Jun 16 j 10:41	0° Y 17'58	0°45'55	opposition	-11724 Dec 26 j 13:59	14° Y 27'30	1°28'45
minimum elong	-11730 Jun 16 j 10:40	0° Y 17'58	0°45'52	min. Earth dist.	-11724 Dec 27 j 06:22	14° Y 26'23	29.26108 AU
max. Earth dist.	-11730 Jun 15 j 12:46	0° Y 15'54	31.23697 AU	direct	-11723 Mar 18 j 00:19	13° Y 03'02	
morning rise	-11730 Jul 01 j 19:06	0° Y 52'22		evening set	-11723 Jun 15 j 21:33	14° Y 58'49	
retrograde	-11730 Sep 26 j 07:22	2° Y 44'44					
opposition	-11730 Dec 13 j 11:59	1° Y 22'55	0°52'11	conjunction	-11723 Jul 01 j 04:49	15° Y 33'10	1°25'47
min. Earth dist.	-11730 Dec 14 j 08:15	1° Y 21'32	29.23904 AU	minimum elong	-11723 Jul 01 j 04:48	15° Y 33'09	1°25'56
	-11729 Feb 22 j 07:31	30° R H		max. Earth dist.	-11723 Jun 30 j 12:25	15° Y 31'37	31.26326 AU
direct	-11729 Mar 04 j 23:39	29° H 58'10		morning rise	-11723 Jul 16 j 09:45	16° Y 07'18	
	-11729 Mar 15 j 14:59	0° Y		retrograde	-11723 Oct 11 j 05:59	18° Y 00'13	
evening set	-11729 Jun 03 j 09:28	1° Y 54'28		opposition	-11723 Dec 29 j 02:29	16° Y 38'10	1°34'27
				min. Earth dist.	-11723 Dec 29 j 17:07	16° Y 37'10	29.26700 AU
conjunction	-11729 Jun 18 j 20:31	2° Y 29'06	0°51'53	direct	-11722 Mar 20 j 10:30	15° Y 13'47	
minimum elong	-11729 Jun 18 j 20:31	2° Y 29'06	0°51'53	evening set	-11722 Jun 18 j 07:15	17° Y 09'31	
max. Earth dist.	-11729 Jun 17 j 23:19	2° Y 27'06	31.24005 AU				
morning rise	-11729 Jul 04 j 04:22	3° Y 03'28		conjunction	-11722 Jul 03 j 14:02	17° Y 43'49	1°31'03
retrograde	-11729 Sep 28 j 18:04	4° Y 55'53		minimum elong	-11722 Jul 03 j 14:01	17° Y 43'49	1°31'14
opposition	-11729 Dec 16 j 00:15	3° Y 34'00	0°58'31	max. Earth dist.	-11722 Jul 02 j 23:14	17° Y 42'25	31.26904 AU
min. Earth dist.	-11729 Dec 16 j 21:02	3° Y 32'36	29.24194 AU	morning rise	-11722 Jul 18 j 18:21	18° Y 17'56	
direct	-11728 Mar 06 j 11:31	2° Y 09'17		retrograde	-11722 Oct 13 j 16:33	20° Y 11'00	
evening set	-11728 Jun 04 j 19:39	4° Y 05'30		opposition	-11722 Dec 31 j 15:16	18° Y 48'56	1°40'00
max. Earth dist.	-11728 Jun 19 j 09:45	4° Y 38'09	31.24273 AU	min. Earth dist.	-11721 Jan 01 j 06:12	18° Y 47'55	29.27273 AU
				direct	-11721 Mar 22 j 22:10	17° Y 24'40	
conjunction	-11728 Jun 20 j 06:07	4° Y 40'04	0°57'46	evening set	-11721 Jun 20 j 17:11	19° Y 20'20	
minimum elong	-11728 Jun 20 j 06:06	4° Y 40'04	0°57'48				
morning rise	-11728 Jul 05 j 13:30	5° Y 14'23		conjunction	-11721 Jul 05 j 23:17	19° Y 54'35	1°36'12
retrograde	-11728 Sep 30 j 03:16	7° Y 06'51		minimum elong	-11721 Jul 05 j 23:16	19° Y 54'35	1°36'24
opposition	-11728 Dec 17 j 12:28	5° Y 44'56	1°04'46	max. Earth dist.	-11721 Jul 05 j 08:46	19° Y 53'13	31.27445 AU
min. Earth dist.	-11728 Dec 18 j 07:48	5° Y 43'37	29.24447 AU	morning rise	-11721 Jul 21 j 03:13	20° Y 28'40	
direct	-11727 Mar 09 j 01:18	4° Y 20'14		retrograde	-11721 Oct 16 j 04:56	22° Y 21'52	

Attention, astronomical year style is used: The year -11720 in astronomical counting style is the year 11721 BCE in historical counting style.

opposition	-11720 Jan 03 j 03:46	20° Υ 59'47	1°45'26	conjunction	-11714 Jul 20 j 15:08	5° δ 10'16	2°07'54
min. Earth dist.	-11720 Jan 03 j 17:07	20° Υ 58'53	29.27775 AU	minimum elong	-11714 Jul 20 j 15:07	5° δ 10'16	2°08'15
direct	-11720 Mar 24 j 10:20	19° Υ 35'36		max. Earth dist.	-11714 Jul 20 j 05:30	5° δ 09'21	31.27930 AU
evening set	-11720 Jun 22 j 03:02	21° Υ 31'14		morning rise	-11714 Aug 04 j 16:18	5° δ 44'09	
				retrograde	-11714 Oct 31 j 07:17	7° δ 38'11	
conjunction	-11720 Jul 07 j 08:35	22° Υ 05'27	1°41'12	opposition	-11713 Jan 18 j 21:43	6° δ 15'42	2°18'43
minimum elong	-11720 Jul 07 j 08:34	22° Υ 05'27	1°41'25	min. Earth dist.	-11713 Jan 19 j 05:42	6° δ 15'10	29.28029 AU
max. Earth dist.	-11720 Jul 06 j 18:43	22° Υ 04'08	31.27876 AU	direct	-11713 Apr 09 j 21:49	4° δ 51'51	
morning rise	-11720 Jul 22 j 12:02	22° Υ 39'30		evening set	-11713 Jul 07 j 22:07	6° δ 46'52	
retrograde	-11720 Oct 17 j 16:23	24° Υ 32'50					
opposition	-11719 Jan 04 j 16:37	23° Υ 10'44	1°50'42	conjunction	-11713 Jul 23 j 00:05	7° δ 20'48	2°11'45
min. Earth dist.	-11719 Jan 05 j 06:23	23° Υ 09'48	29.28158 AU	minimum elong	-11713 Jul 23 j 00:04	7° δ 20'48	2°12'07
direct	-11719 Mar 26 j 21:18	21° Υ 46'38		max. Earth dist.	-11713 Jul 22 j 16:10	7° δ 20'03	31.27827 AU
evening set	-11719 Jun 24 j 12:50	23° Υ 42'12		morning rise	-11713 Aug 07 j 00:49	7° δ 54'40	
				retrograde	-11713 Nov 02 j 17:36	9° δ 48'50	
conjunction	-11719 Jul 09 j 17:50	24° Υ 16'22	1°46'03	opposition	-11712 Jan 21 j 10:31	8° δ 26'18	2°22'44
minimum elong	-11719 Jul 09 j 17:49	24° Υ 16'22	1°46'18	min. Earth dist.	-11712 Jan 21 j 18:22	8° δ 25'46	29.27980 AU
max. Earth dist.	-11719 Jul 09 j 04:52	24° Υ 15'08	31.28180 AU	direct	-11712 Apr 11 j 08:59	7° δ 02'30	
morning rise	-11719 Jul 24 j 20:47	24° Υ 50'23		evening set	-11712 Jul 09 j 07:26	8° δ 57'26	
retrograde	-11719 Oct 20 j 02:48	26° Υ 43'50					
opposition	-11718 Jan 07 j 05:26	25° Υ 21'42	1°55'49	conjunction	-11712 Jul 24 j 08:56	9° δ 31'21	2°15'24
min. Earth dist.	-11718 Jan 07 j 17:47	25° Υ 20'52	29.28385 AU	minimum elong	-11712 Jul 24 j 08:55	9° δ 31'21	2°15'47
direct	-11718 Mar 29 j 11:03	23° Υ 57'40		max. Earth dist.	-11712 Jul 24 j 01:53	9° δ 30'41	31.27820 AU
evening set	-11718 Jun 26 j 22:43	25° Υ 53'09		morning rise	-11712 Aug 08 j 09:26	10° δ 05'12	
				retrograde	-11712 Nov 04 j 05:59	11° δ 59'30	
conjunction	-11718 Jul 12 j 03:04	26° Υ 27'17	1°50'46	opposition	-11711 Jan 22 j 23:19	10° δ 36'56	2°26'32
minimum elong	-11718 Jul 12 j 03:03	26° Υ 27'17	1°51'01	min. Earth dist.	-11711 Jan 23 j 04:57	10° δ 36'33	29.28013 AU
max. Earth dist.	-11718 Jul 11 j 13:57	26° Υ 26'03	31.28326 AU	direct	-11711 Apr 13 j 20:06	9° δ 13'12	
morning rise	-11718 Jul 27 j 05:41	27° Υ 01'17		evening set	-11711 Jul 11 j 16:38	11° δ 08'05	
retrograde	-11718 Oct 22 j 14:30	28° Υ 54'51					
opposition	-11717 Jan 09 j 18:22	27° Υ 32'40	2°00'45	conjunction	-11711 Jul 26 j 17:41	11° δ 41'58	2°18'51
min. Earth dist.	-11717 Jan 10 j 06:33	27° Υ 31'51	29.28479 AU	minimum elong	-11711 Jul 26 j 17:40	11° δ 41'58	2°19'17
direct	-11717 Mar 31 j 22:54	26° Υ 08'41		max. Earth dist.	-11711 Jul 26 j 11:43	11° δ 41'24	31.27874 AU
evening set	-11717 Jun 29 j 08:17	28° Υ 04'05		morning rise	-11711 Aug 10 j 17:55	12° δ 15'48	
				retrograde	-11711 Nov 06 j 17:46	14° δ 10'17	
conjunction	-11717 Jul 14 j 12:16	28° Υ 38'10	1°55'18	opposition	-11710 Jan 25 j 12:23	12° δ 47'40	2°30'07
minimum elong	-11717 Jul 14 j 12:15	28° Υ 38'10	1°55'36	min. Earth dist.	-11710 Jan 25 j 17:52	12° δ 47'18	29.28108 AU
max. Earth dist.	-11717 Jul 14 j 00:43	28° Υ 37'05	31.28343 AU	direct	-11710 Apr 16 j 05:49	11° δ 24'02	
morning rise	-11717 Jul 29 j 14:23	29° Υ 12'08		evening set	-11710 Jul 14 j 01:50	13° δ 18'51	
retrograde	-11717 Aug 21 j 16:21	0° δ					
	-11717 Oct 25 j 00:05	1° δ 05'49		conjunction	-11710 Jul 29 j 02:36	13° δ 52'42	2°22'07
	-11716 Jan 02 j 01:41	30° κ '		minimum elong	-11710 Jul 29 j 02:35	13° δ 52'42	2°22'33
opposition	-11716 Jan 12 j 07:14	29° Υ 43'34	2°05'32	max. Earth dist.	-11710 Jul 28 j 22:12	13° δ 52'17	31.27982 AU
min. Earth dist.	-11716 Jan 12 j 18:39	29° Υ 42'48	29.28432 AU	morning rise	-11710 Aug 13 j 02:32	14° δ 26'31	
direct	-11716 Apr 02 j 12:24	28° Υ 19'37			-11710 Aug 28 j 19:25	15° δ	
	-11716 Jun 23 j 21:25	0° δ		retrograde	-11710 Nov 09 j 05:06	16° δ 21'10	
evening set	-11716 Jun 30 j 18:00	0° δ 14'55			-11709 Jan 27 j 03:29	15° κ '	
				opposition	-11709 Jan 28 j 01:20	14° δ 58'32	2°33'30
conjunction	-11716 Jul 15 j 21:18	0° δ 48'58	1°59'41	min. Earth dist.	-11709 Jan 28 j 05:00	14° δ 58'17	29.28216 AU
minimum elong	-11716 Jul 15 j 21:17	0° δ 48'58	1°59'59	direct	-11709 Apr 18 j 19:07	13° δ 34'59	
max. Earth dist.	-11716 Jul 15 j 09:28	0° δ 47'51	31.28242 AU		-11709 Jul 02 j 13:14	15° δ	
morning rise	-11716 Jul 30 j 23:11	1° δ 22'55		evening set	-11709 Jul 16 j 11:06	15° δ 29'45	
retrograde	-11716 Oct 26 j 10:43	3° δ 16'42					
opposition	-11715 Jan 13 j 19:55	1° δ 54'23	2°10'07	conjunction	-11709 Jul 31 j 11:24	16° δ 03'35	2°25'10
min. Earth dist.	-11715 Jan 14 j 06:22	1° δ 53'40	29.28308 AU	minimum elong	-11709 Jul 31 j 11:23	16° δ 03'35	2°25'38
direct	-11715 Apr 04 j 23:20	0° δ 30'27		max. Earth dist.	-11709 Jul 31 j 07:08	16° δ 03'11	31.28069 AU
evening set	-11715 Jul 03 j 03:25	2° δ 25'39		morning rise	-11709 Aug 15 j 11:16	16° δ 37'24	
				retrograde	-11709 Nov 11 j 18:20	18° δ 32'12	
conjunction	-11715 Jul 18 j 06:23	2° δ 59'40	2°03'53	opposition	-11708 Jan 30 j 14:25	17° δ 09'32	2°36'40
minimum elong	-11715 Jul 18 j 06:21	2° δ 59'40	2°04'13	min. Earth dist.	-11708 Jan 30 j 17:41	17° δ 09'19	29.28291 AU
max. Earth dist.	-11715 Jul 17 j 20:32	2° δ 58'44	31.28082 AU	direct	-11708 Apr 20 j 06:29	15° δ 46'04	
morning rise	-11715 Aug 02 j 07:44	3° δ 33'35		evening set	-11708 Jul 17 j 20:20	17° δ 40'47	
retrograde	-11715 Oct 28 j 19:36	5° δ 27'29					
opposition	-11714 Jan 16 j 08:53	4° δ 05'05	2°14'31	conjunction	-11708 Aug 01 j 20:26	18° δ 14'36	2°28'01
min. Earth dist.	-11714 Jan 16 j 18:55	4° δ 04'25	29.28147 AU	minimum elong	-11708 Aug 01 j 20:25	18° δ 14'36	2°28'29
direct	-11714 Apr 07 j 11:21	2° δ 41'12		max. Earth dist.	-11708 Aug 01 j 17:56	18° δ 14'22	31.28089 AU
evening set	-11714 Jul 05 j 12:49	4° δ 36'17		morning rise	-11708 Aug 16 j 19:55	18° δ 48'24	





























































































































Attention, astronomical year style is used: The year -11708 in astronomical counting style is the year 11709 BCE in historical counting style.

retrograde	-11708 Nov 13 j 04:31	20°843'21		evening set	-11701 Aug 02 j 12:32	2°II57'38	
opposition	-11707 Feb 01 j 03:27	19°820'39	2°39'36				
min. Earth dist.	-11707 Feb 01 j 05:51	19°820'30	29.28260 AU	conjunction	-11701 Aug 17 j 11:15	3°II31'21	2°41'51
direct	-11707 Apr 22 j 19:24	17°857'16		minimum elong	-11701 Aug 17 j 11:15	3°II31'20	2°42'26
evening set	-11707 Jul 20 j 05:47	19°851'54		max. Earth dist.	-11701 Aug 17 j 14:47	3°II31'41	31.25101 AU
				morning rise	-11701 Sep 01 j 10:26	4°II05'08	
conjunction	-11707 Aug 04 j 05:23	20°825'42	2°30'40	retrograde	-11701 Nov 29 j 10:46	6°II00'56	
minimum elong	-11707 Aug 04 j 05:22	20°825'42	2°31'09	opposition	-11700 Feb 17 j 23:19	4°II37'37	2°53'33
max. Earth dist.	-11707 Aug 04 j 02:38	20°825'26	31.27999 AU	min. Earth dist.	-11700 Feb 17 j 18:56	4°II37'55	29.25082 AU
morning rise	-11707 Aug 19 j 04:53	20°859'30		direct	-11700 May 08 j 03:30	3°II14'22	
retrograde	-11707 Nov 15 j 16:09	22°854'35		evening set	-11700 Aug 03 j 21:33	5°II08'16	
opposition	-11706 Feb 03 j 16:40	21°831'51	2°42'18				
min. Earth dist.	-11706 Feb 03 j 18:05	21°831'45	29.28116 AU	conjunction	-11700 Aug 18 j 20:03	5°II41'58	2°42'55
direct	-11706 Apr 25 j 06:30	20°808'31		minimum elong	-11700 Aug 18 j 20:02	5°II41'58	2°43'30
evening set	-11706 Jul 22 j 14:57	22°803'04		max. Earth dist.	-11700 Aug 18 j 23:52	5°II42'20	31.24605 AU
				morning rise	-11700 Sep 02 j 19:26	6°II15'46	
conjunction	-11706 Aug 06 j 14:27	22°836'50	2°33'05	retrograde	-11700 Dec 01 j 00:08	8°II11'42	
minimum elong	-11706 Aug 06 j 14:27	22°836'50	2°33'35	opposition	-11699 Feb 19 j 12:19	6°II48'19	2°54'34
max. Earth dist.	-11706 Aug 06 j 13:25	22°836'44	31.27768 AU	min. Earth dist.	-11699 Feb 19 j 07:09	6°II48'40	29.24650 AU
morning rise	-11706 Aug 21 j 13:41	23°810'38		direct	-11699 May 10 j 14:01	5°II25'07	
retrograde	-11706 Nov 18 j 01:43	25°805'52		evening set	-11699 Aug 06 j 06:26	7°II18'57	
opposition	-11705 Feb 06 j 05:58	23°843'03	2°44'46				
min. Earth dist.	-11705 Feb 06 j 07:12	23°842'58	29.27815 AU	conjunction	-11699 Aug 21 j 05:04	7°II52'39	2°43'45
direct	-11705 Apr 27 j 19:14	22°819'45		minimum elong	-11699 Aug 21 j 05:03	7°II52'39	2°44'21
evening set	-11705 Jul 25 j 00:20	24°814'12		max. Earth dist.	-11699 Aug 21 j 11:08	7°II53'14	31.24222 AU
				morning rise	-11699 Sep 05 j 04:24	8°II26'28	
conjunction	-11705 Aug 08 j 23:30	24°847'57	2°35'17	retrograde	-11699 Dec 03 j 10:49	10°II22'32	
minimum elong	-11705 Aug 08 j 23:29	24°847'57	2°35'48	opposition	-11698 Feb 22 j 01:22	8°II59'06	2°55'20
max. Earth dist.	-11705 Aug 08 j 22:20	24°847'51	31.27396 AU	min. Earth dist.	-11698 Feb 21 j 18:47	8°II59'33	29.24310 AU
morning rise	-11705 Aug 23 j 22:47	25°821'45		direct	-11698 May 13 j 02:13	7°II35'58	
retrograde	-11705 Nov 20 j 13:54	27°817'06		evening set	-11698 Aug 08 j 15:21	9°II29'44	
opposition	-11704 Feb 08 j 18:55	25°854'12	2°47'01				
min. Earth dist.	-11704 Feb 08 j 18:35	25°854'13	29.27378 AU	conjunction	-11698 Aug 23 j 13:52	10°II03'27	2°44'20
direct	-11704 Apr 29 j 06:20	24°830'55		minimum elong	-11698 Aug 23 j 13:52	10°II03'27	2°44'57
evening set	-11704 Jul 26 j 09:31	26°825'15		max. Earth dist.	-11698 Aug 23 j 20:10	10°II04'03	31.23927 AU
				morning rise	-11698 Sep 07 j 13:34	10°II37'17	
conjunction	-11704 Aug 10 j 08:35	26°858'59	2°37'16	retrograde	-11698 Dec 05 j 23:24	12°II33'31	
minimum elong	-11704 Aug 10 j 08:34	26°858'59	2°37'48	opposition	-11697 Feb 24 j 14:26	11°II10'03	2°55'50
max. Earth dist.	-11704 Aug 10 j 08:36	26°858'59	31.26884 AU	min. Earth dist.	-11697 Feb 24 j 06:33	11°II10'35	29.24049 AU
morning rise	-11704 Aug 25 j 07:44	27°832'47		direct	-11697 May 15 j 12:54	9°II46'59	
retrograde	-11704 Nov 21 j 23:48	29°828'15		evening set	-11697 Aug 11 j 00:19	11°II40'42	
opposition	-11703 Feb 10 j 08:09	28°805'14	2°49'01				
min. Earth dist.	-11703 Feb 10 j 07:59	28°805'15	29.26822 AU	conjunction	-11697 Aug 25 j 23:02	12°II14'26	2°44'42
direct	-11703 May 01 j 17:37	26°841'58		minimum elong	-11697 Aug 25 j 23:02	12°II14'26	2°45'19
evening set	-11703 Jul 28 j 18:32	28°836'10		max. Earth dist.	-11697 Aug 26 j 07:16	12°II15'13	31.23672 AU
				morning rise	-11697 Sep 09 j 22:47	12°II48'17	
conjunction	-11703 Aug 12 j 17:25	29°809'54	2°39'01	retrograde	-11697 Dec 08 j 09:53	14°II44'40	
minimum elong	-11703 Aug 12 j 17:24	29°809'54	2°39'35	opposition	-11696 Feb 27 j 03:23	13°II21'11	2°56'05
max. Earth dist.	-11703 Aug 12 j 18:19	29°809'59	31.26295 AU	min. Earth dist.	-11696 Feb 26 j 19:09	13°II21'44	29.23796 AU
morning rise	-11703 Aug 27 j 16:34	29°843'41		direct	-11696 May 17 j 01:00	11°II58'13	
	-11703 Sep 04 j 03:57	0°II		evening set	-11696 Aug 12 j 09:25	13°II51'52	
retrograde	-11703 Nov 24 j 11:33	1°II39'16					
opposition	-11702 Feb 12 j 21:15	0°II16'09	2°50'46	conjunction	-11696 Aug 27 j 08:06	14°II25'36	2°44'49
min. Earth dist.	-11702 Feb 12 j 19:03	0°II16'17	29.26212 AU	minimum elong	-11696 Aug 27 j 08:06	14°II25'36	2°45'26
	-11702 Feb 22 j 22:35	30°88		max. Earth dist.	-11696 Aug 27 j 16:34	14°II26'25	31.23417 AU
direct	-11702 May 04 j 04:49	28°852'52		morning rise	-11696 Sep 11 j 08:11	14°II59'29	
	-11702 Jul 08 j 13:24	0°II		retrograde	-11696 Dec 09 j 22:55	16°II56'02	
evening set	-11702 Jul 31 j 03:37	0°II46'58		opposition	-11695 Feb 28 j 16:26	15°II32'31	2°56'05
				min. Earth dist.	-11695 Feb 28 j 06:29	15°II33'12	29.23519 AU
conjunction	-11702 Aug 15 j 02:19	1°II20'40	2°40'33	direct	-11695 May 19 j 11:41	14°II09'38	
minimum elong	-11702 Aug 15 j 02:19	1°II20'40	2°41'07	evening set	-11695 Aug 14 j 18:24	16°II03'14	
max. Earth dist.	-11702 Aug 15 j 04:04	1°II20'50	31.25672 AU				
morning rise	-11702 Aug 30 j 01:33	1°II54'27		conjunction	-11695 Aug 29 j 17:15	16°II36'59	2°44'41
retrograde	-11702 Nov 26 j 23:15	3°II50'09		minimum elong	-11695 Aug 29 j 17:15	16°II36'59	2°45'20
opposition	-11701 Feb 15 j 10:22	2°II26'55	2°52'17	max. Earth dist.	-11695 Aug 30 j 02:52	16°II37'53	31.23095 AU
min. Earth dist.	-11701 Feb 15 j 08:04	2°II27'05	29.25618 AU	morning rise	-11695 Sep 13 j 17:33	17°II10'53	
direct	-11701 May 06 j 14:33	1°II03'39		retrograde	-11695 Dec 12 j 09:20	19°II07'35	

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

opposition	-11694 Mar 03 j 05:44	17° Π 44'03	2°55'50		-11688 Jul 15 j 07:40	0° \mathfrak{D}	
min. Earth dist.	-11694 Mar 02 j 20:01	17° Π 44'42	29.23157 AU	evening set	-11688 Aug 29 j 10:30	1° \mathfrak{D} 23'59	
direct	-11694 May 21 j 22:22	16° Π 21'13					
evening set	-11694 Aug 17 j 03:37	18° Π 14'45		conjunction	-11688 Sep 13 j 11:22	1° \mathfrak{D} 57'54	2°37'16
				minimum elong	-11688 Sep 13 j 11:22	1° \mathfrak{D} 57'54	2°37'55
conjunction	-11694 Sep 01 j 02:40	18° Π 48'31	2°44'20	max. Earth dist.	-11688 Sep 14 j 02:52	1° \mathfrak{D} 59'22	31.18249 AU
minimum elong	-11694 Sep 01 j 02:40	18° Π 48'31	2°44'58	morning rise	-11688 Sep 28 j 14:29	2° \mathfrak{D} 32'02	
max. Earth dist.	-11694 Sep 01 j 13:02	18° Π 49'30	31.22687 AU	retrograde	-11688 Dec 27 j 23:54	4° \mathfrak{D} 29'24	
morning rise	-11694 Sep 16 j 03:14	19° Π 22'27		min. Earth dist.	-11687 Mar 18 j 09:22	3° \mathfrak{D} 06'19	29.18139 AU
retrograde	-11694 Dec 14 j 21:38	21° Π 19'17		opposition	-11687 Mar 19 j 00:52	3° \mathfrak{D} 05'16	2°47'02
opposition	-11693 Mar 05 j 18:44	19° Π 55'42	2°55'19	direct	-11687 Jun 06 j 04:52	1° \mathfrak{D} 42'29	
min. Earth dist.	-11693 Mar 05 j 07:21	19° Π 56'28	29.22683 AU	evening set	-11687 Aug 31 j 19:33	3° \mathfrak{D} 35'20	
direct	-11693 May 24 j 08:48	18° Π 32'55					
evening set	-11693 Aug 19 j 12:53	20° Π 26'22		conjunction	-11687 Sep 15 j 20:46	4° \mathfrak{D} 09'17	2°35'17
				minimum elong	-11687 Sep 15 j 20:46	4° \mathfrak{D} 09'17	2°35'57
conjunction	-11693 Sep 03 j 12:04	21° Π 00'09	2°43'44	max. Earth dist.	-11687 Sep 16 j 12:47	4° \mathfrak{D} 10'48	31.17589 AU
minimum elong	-11693 Sep 03 j 12:04	21° Π 00'09	2°44'23	morning rise	-11687 Oct 01 j 00:30	4° \mathfrak{D} 43'27	
max. Earth dist.	-11693 Sep 03 j 22:37	21° Π 01'09	31.22140 AU	retrograde	-11687 Dec 30 j 12:53	6° \mathfrak{D} 40'55	
morning rise	-11693 Sep 18 j 13:05	21° Π 34'07		opposition	-11686 Mar 21 j 13:44	5° \mathfrak{D} 16'43	2°44'48
retrograde	-11693 Dec 17 j 10:00	23° Π 31'05		min. Earth dist.	-11686 Mar 20 j 20:20	5° \mathfrak{D} 17'54	29.17525 AU
opposition	-11692 Mar 07 j 07:59	22° Π 07'26	2°54'34	direct	-11686 Jun 08 j 15:43	3° \mathfrak{D} 53'58	
min. Earth dist.	-11692 Mar 06 j 20:59	22° Π 08'10	29.22073 AU	evening set	-11686 Sep 03 j 04:45	5° \mathfrak{D} 46'45	
direct	-11692 May 25 j 18:05	20° Π 44'40					
evening set	-11692 Aug 20 j 21:59	22° Π 38'02		conjunction	-11686 Sep 18 j 06:26	6° \mathfrak{D} 20'43	2°33'04
				minimum elong	-11686 Sep 18 j 06:26	6° \mathfrak{D} 20'43	2°33'44
conjunction	-11692 Sep 04 j 21:32	23° Π 11'50	2°42'54	max. Earth dist.	-11686 Sep 18 j 23:39	6° \mathfrak{D} 22'21	31.17018 AU
minimum elong	-11692 Sep 04 j 21:32	23° Π 11'50	2°43'34	morning rise	-11686 Oct 03 j 10:44	6° \mathfrak{D} 54'57	
max. Earth dist.	-11692 Sep 05 j 09:28	23° Π 12'58	31.21467 AU	retrograde	-11685 Jan 01 j 23:12	8° \mathfrak{D} 52'30	
morning rise	-11692 Sep 19 j 22:46	23° Π 45'50		min. Earth dist.	-11685 Mar 23 j 09:13	7° \mathfrak{D} 29'27	29.16995 AU
retrograde	-11692 Dec 18 j 22:13	25° Π 42'53		opposition	-11685 Mar 24 j 02:33	7° \mathfrak{D} 28'16	2°42'19
opposition	-11691 Mar 09 j 21:01	24° Π 19'09	2°53'33	direct	-11685 Jun 11 j 02:24	6° \mathfrak{D} 05'33	
min. Earth dist.	-11691 Mar 09 j 08:30	24° Π 20'00	29.21330 AU	evening set	-11685 Sep 05 j 13:58	7° \mathfrak{D} 58'16	
direct	-11691 May 28 j 06:54	22° Π 56'23					
evening set	-11691 Aug 23 j 07:14	24° Π 49'39		conjunction	-11685 Sep 20 j 16:12	8° \mathfrak{D} 32'17	2°30'38
				minimum elong	-11685 Sep 20 j 16:12	8° \mathfrak{D} 32'17	2°31'18
conjunction	-11691 Sep 07 j 06:54	25° Π 23'28	2°41'51	max. Earth dist.	-11685 Sep 21 j 10:30	8° \mathfrak{D} 34'01	31.16534 AU
minimum elong	-11691 Sep 07 j 06:54	25° Π 23'28	2°42'31	morning rise	-11685 Oct 05 j 21:03	9° \mathfrak{D} 06'34	
max. Earth dist.	-11691 Sep 07 j 18:35	25° Π 24'35	31.20684 AU	retrograde	-11684 Jan 04 j 11:41	11° \mathfrak{D} 04'13	
morning rise	-11691 Sep 22 j 08:44	25° Π 57'30		opposition	-11684 Mar 25 j 15:18	9° \mathfrak{D} 39'57	2°39'35
retrograde	-11691 Dec 21 j 12:25	27° Π 54'39		min. Earth dist.	-11684 Mar 24 j 20:09	9° \mathfrak{D} 41'16	29.16518 AU
opposition	-11690 Mar 12 j 10:10	26° Π 30'48	2°52'18	direct	-11684 Jun 12 j 13:05	8° \mathfrak{D} 17'18	
min. Earth dist.	-11690 Mar 11 j 21:23	26° Π 31'40	29.20516 AU	evening set	-11684 Sep 06 j 23:16	10° \mathfrak{D} 09'58	
direct	-11690 May 30 j 16:56	25° Π 08'02					
evening set	-11690 Aug 25 j 16:12	27° Π 01'11		conjunction	-11684 Sep 22 j 01:52	10° \mathfrak{D} 44'01	2°27'58
				minimum elong	-11684 Sep 22 j 01:52	10° \mathfrak{D} 44'01	2°28'38
conjunction	-11690 Sep 09 j 16:24	27° Π 35'02	2°40'33	max. Earth dist.	-11684 Sep 22 j 20:30	10° \mathfrak{D} 45'47	31.16065 AU
minimum elong	-11690 Sep 09 j 16:24	27° Π 35'02	2°41'12	morning rise	-11684 Oct 07 j 07:26	11° \mathfrak{D} 18'21	
max. Earth dist.	-11690 Sep 10 j 06:01	27° Π 36'19	31.19849 AU	retrograde	-11683 Jan 06 j 00:03	13° \mathfrak{D} 16'07	
morning rise	-11690 Sep 24 j 18:32	28° Π 09'06		min. Earth dist.	-11683 Mar 27 j 09:26	11° \mathfrak{D} 53'06	29.16047 AU
	-11690 Dec 04 j 06:38	0° \mathfrak{D}		opposition	-11683 Mar 28 j 04:15	11° \mathfrak{D} 51'50	2°36'37
retrograde	-11690 Dec 23 j 23:11	0° \mathfrak{D} 06'19		direct	-11683 Jun 14 j 22:11	10° \mathfrak{D} 29'13	
	-11689 Jan 12 j 23:03	30° \mathfrak{R} Π		evening set	-11683 Sep 09 j 08:39	12° \mathfrak{D} 21'50	
opposition	-11689 Mar 14 j 23:08	28° Π 42'22	2°50'47				
min. Earth dist.	-11689 Mar 14 j 09:18	28° Π 43'18	29.19667 AU	conjunction	-11683 Sep 24 j 11:55	12° \mathfrak{D} 55'55	2°25'05
direct	-11689 Jun 02 j 05:06	27° Π 19'34		minimum elong	-11683 Sep 24 j 11:56	12° \mathfrak{D} 55'55	2°25'45
evening set	-11689 Aug 28 j 01:27	29° Π 12'38		max. Earth dist.	-11683 Sep 25 j 08:02	12° \mathfrak{D} 57'50	31.15589 AU
				morning rise	-11683 Oct 09 j 17:59	13° \mathfrak{D} 30'19	
conjunction	-11689 Sep 12 j 01:49	29° Π 46'30	2°39'02	retrograde	-11682 Jan 08 j 12:30	15° \mathfrak{D} 28'11	
minimum elong	-11689 Sep 12 j 01:49	29° Π 46'30	2°39'41	opposition	-11682 Mar 30 j 17:01	14° \mathfrak{D} 03'52	2°33'25
max. Earth dist.	-11689 Sep 12 j 15:25	29° Π 47'47	31.19019 AU	min. Earth dist.	-11682 Mar 29 j 20:52	14° \mathfrak{D} 05'15	29.15532 AU
	-11689 Sep 18 j 00:29	0° \mathfrak{D}		direct	-11682 Jun 17 j 09:49	12° \mathfrak{D} 41'18	
morning rise	-11689 Sep 27 j 04:34	0° \mathfrak{D} 20'36		evening set	-11682 Sep 11 j 18:19	14° \mathfrak{D} 33'53	
retrograde	-11689 Dec 26 j 12:33	2° \mathfrak{D} 17'53					
opposition	-11688 Mar 16 j 11:55	0° \mathfrak{D} 53'50	2°49'02	conjunction	-11682 Sep 26 j 21:59	15° \mathfrak{D} 08'01	2°21'59
min. Earth dist.	-11688 Mar 15 j 20:59	0° \mathfrak{D} 54'50	29.18866 AU	minimum elong	-11682 Sep 26 j 22:00	15° \mathfrak{D} 08'01	2°22'38
	-11688 Apr 21 j 10:48	30° \mathfrak{R} Π		max. Earth dist.	-11682 Sep 27 j 17:33	15° \mathfrak{D} 09'52	31.15040 AU
direct	-11688 Jun 03 j 16:18	29° Π 31'02		morning rise	-11682 Oct 12 j 04:54	15° \mathfrak{D} 42'27	

Attention, astronomical year style is used: The year -11681 in astronomical counting style is the year 11682 BCE in historical counting style.

retrograde	-11681 Jan 11 j 02:52	17°  40'26			-11675 Sep 26 j 17:58	0° 		
min. Earth dist.	-11681 Apr 01 j 09:55	16°  17'27	29.14930 AU					
opposition	-11681 Apr 02 j 05:55	16°  16'05	2°30'00	conjunction	-11675 Oct 11 j 23:01	0°   34'12	1°54'48	
direct	-11681 Jun 19 j 18:58	14°  53'33		minimum elong	-11675 Oct 11 j 23:02	0°   34'12	1°55'23	
evening set	-11681 Sep 14 j 03:58	16°  46'04		max. Earth dist.	-11675 Oct 12 j 22:13	0°   36'24	31.08612 AU	
				morning rise	-11675 Oct 27 j 11:08	1°  09'03		
conjunction	-11681 Sep 29 j 08:23	17°  20'16	2°18'41	retrograde	-11674 Jan 26 j 18:32	3°  07'23		
minimum elong	-11681 Sep 29 j 08:23	17°  20'16	2°19'19	opposition	-11674 Apr 17 j 22:11	1°  42'32	2°00'13	
max. Earth dist.	-11681 Sep 30 j 05:19	17°  22'15	31.14376 AU	min. Earth dist.	-11674 Apr 16 j 23:22	1°  44'06	29.08330 AU	
morning rise	-11681 Oct 14 j 15:48	17°  54'45		direct	-11674 Jul 05 j 01:02	0°  19'54		
retrograde	-11680 Jan 13 j 14:41	19°  52'49		evening set	-11674 Sep 29 j 00:37	2°  11'58		
opposition	-11680 Apr 03 j 18:35	18°  28'26	2°26'21					
min. Earth dist.	-11680 Apr 02 j 22:05	18°  29'49	29.14186 AU	conjunction	-11674 Oct 14 j 09:47	2°  46'31	1°50'11	
direct	-11680 Jun 21 j 06:33	17°  05'54		minimum elong	-11674 Oct 14 j 09:48	2°  46'31	1°50'45	
evening set	-11680 Sep 15 j 13:48	18°  58'22		max. Earth dist.	-11674 Oct 15 j 10:32	2°  48'51	31.07778 AU	
				morning rise	-11674 Oct 29 j 22:34	3°  21'26		
conjunction	-11680 Sep 30 j 18:41	19°  32'37	2°15'10	retrograde	-11673 Jan 29 j 06:12	5°  19'48		
minimum elong	-11680 Sep 30 j 18:42	19°  32'37	2°15'48	min. Earth dist.	-11673 Apr 19 j 10:14	3°  56'36	29.07529 AU	
max. Earth dist.	-11680 Oct 01 j 15:01	19°  34'32	31.13581 AU	opposition	-11673 Apr 20 j 10:28	3°  54'55	1°55'12	
morning rise	-11680 Oct 16 j 02:58	20°  07'10		direct	-11673 Jul 07 j 12:21	2°  32'17		
retrograde	-11679 Jan 15 j 05:26	22°  05'17		evening set	-11673 Oct 01 j 10:45	4°  24'20		
min. Earth dist.	-11679 Apr 05 j 10:28	20°  42'16	29.13319 AU					
opposition	-11679 Apr 06 j 07:26	20°  40'50	2°22'29	conjunction	-11673 Oct 16 j 20:28	4°  58'56	1°45'24	
direct	-11679 Jun 23 j 17:33	19°  18'18		minimum elong	-11673 Oct 16 j 20:29	4°  58'56	1°45'59	
evening set	-11679 Sep 17 j 23:25	21°  10'42		max. Earth dist.	-11673 Oct 17 j 20:44	5°  01'14	31.07032 AU	
				morning rise	-11673 Nov 01 j 10:11	5°  33'54		
conjunction	-11679 Oct 03 j 05:04	21°  45'00	2°11'28	retrograde	-11672 Jan 31 j 19:41	7°  32'21		
minimum elong	-11679 Oct 03 j 05:05	21°  45'00	2°12'06	opposition	-11672 Apr 21 j 22:46	6°  07'26	1°50'01	
max. Earth dist.	-11679 Oct 04 j 02:35	21°  47'02	31.12654 AU	min. Earth dist.	-11672 Apr 20 j 22:35	6°  09'06	29.06821 AU	
morning rise	-11679 Oct 18 j 14:00	22°  19'36		direct	-11672 Jul 08 j 20:33	4°  44'49		
retrograde	-11678 Jan 17 j 17:49	24°  17'46		evening set	-11672 Oct 02 j 20:49	6°  36'51		
opposition	-11678 Apr 08 j 20:14	22°  53'14	2°18'26					
min. Earth dist.	-11678 Apr 07 j 23:28	22°  54'39	29.12327 AU	conjunction	-11672 Oct 18 j 07:25	7°  11'30	1°40'28	
direct	-11678 Jun 26 j 06:05	21°  30'42		minimum elong	-11672 Oct 18 j 07:26	7°  11'31	1°41'01	
evening set	-11678 Sep 20 j 09:15	23°  23'01		max. Earth dist.	-11672 Oct 19 j 09:18	7°  13'57	31.06362 AU	
				morning rise	-11672 Nov 02 j 21:46	7°  46'32		
conjunction	-11678 Oct 05 j 15:33	23°  57'21	2°07'34	retrograde	-11671 Feb 02 j 07:53	9°  45'02		
minimum elong	-11678 Oct 05 j 15:34	23°  57'21	2°08'11	min. Earth dist.	-11671 Apr 23 j 10:13	8°  21'49	29.06159 AU	
max. Earth dist.	-11678 Oct 06 j 13:00	23°  59'23	31.11641 AU	opposition	-11671 Apr 24 j 11:02	8°  20'07	1°44'39	
morning rise	-11678 Oct 21 j 01:18	24°  32'01		direct	-11671 Jul 11 j 07:33	6°  57'30		
retrograde	-11677 Jan 20 j 07:13	26°  30'14		evening set	-11671 Oct 05 j 07:05	8°  49'31		
min. Earth dist.	-11677 Apr 10 j 10:46	25°  07'07	29.11278 AU					
opposition	-11677 Apr 11 j 08:42	25°  05'37	2°14'10	conjunction	-11671 Oct 20 j 18:19	9°  24'14	1°35'23	
direct	-11677 Jun 28 j 17:15	23°  43'01		minimum elong	-11671 Oct 20 j 18:20	9°  24'15	1°35'55	
evening set	-11677 Sep 22 j 19:06	25°  35'17		max. Earth dist.	-11671 Oct 21 j 19:41	9°  26'38	31.05729 AU	
				morning rise	-11671 Nov 05 j 09:38	9°  59'20		
conjunction	-11677 Oct 08 j 02:02	26°  09'40	2°03'29	retrograde	-11670 Feb 04 j 23:03	11°  57'53		
minimum elong	-11677 Oct 08 j 02:03	26°  09'40	2°04'06	opposition	-11670 Apr 26 j 23:22	10°  32'57	1°39'07	
max. Earth dist.	-11677 Oct 09 j 00:06	26°  11'45	31.10581 AU	min. Earth dist.	-11670 Apr 25 j 22:15	10°  34'41	29.05518 AU	
morning rise	-11677 Oct 23 j 12:34	26°  44'24		direct	-11670 Jul 13 j 18:01	9°  10'21		
retrograde	-11676 Jan 22 j 17:59	28°  42'38		evening set	-11670 Oct 07 j 17:36	11°  02'22		
opposition	-11676 Apr 12 j 21:18	27°  17'56	2°09'42					
min. Earth dist.	-11676 Apr 11 j 23:47	27°  19'24	29.10222 AU	conjunction	-11670 Oct 23 j 05:39	11°  37'09	1°30'08	
direct	-11676 Jun 30 j 04:29	25°  55'19		minimum elong	-11670 Oct 23 j 05:40	11°  37'09	1°30'39	
evening set	-11676 Sep 24 j 04:47	27°  47'30		max. Earth dist.	-11670 Oct 24 j 07:59	11°  39'38	31.05069 AU	
				morning rise	-11670 Nov 07 j 21:40	12°  12'18		
conjunction	-11676 Oct 09 j 12:28	28°  21'56	1°59'14	retrograde	-11669 Feb 07 j 11:46	14°  10'54		
minimum elong	-11676 Oct 09 j 12:29	28°  21'56	1°59'49	min. Earth dist.	-11669 Apr 28 j 10:55	12°  47'38	29.04822 AU	
max. Earth dist.	-11676 Oct 10 j 11:33	28°  24'07	31.09560 AU	opposition	-11669 Apr 29 j 11:31	12°  45'57	1°33'27	
morning rise	-11676 Oct 24 j 23:40	28°  56'43		direct	-11669 Jul 16 j 05:35	11°  23'21		
	-11676 Nov 25 j 12:18	0° 		evening set	-11669 Oct 10 j 04:16	13°  15'21		
retrograde	-11675 Jan 24 j 06:50	0°  55'00						
	-11675 Mar 27 j 21:31	30° 		conjunction	-11669 Oct 25 j 17:03	13°  50'11	1°24'46	
min. Earth dist.	-11675 Apr 14 j 10:30	29°  31'49	29.09225 AU	minimum elong	-11669 Oct 25 j 17:03	13°  50'12	1°25'16	
opposition	-11675 Apr 15 j 09:43	29°  30'13	2°05'03	max. Earth dist.	-11669 Oct 26 j 18:56	13°  52'38	31.04353 AU	
direct	-11675 Jul 02 j 15:47	28°  07'35		morning rise	-11669 Nov 10 j 09:53	14°  25'25		
evening set	-11675 Sep 26 j 14:45	29°  59'42			-11669 Nov 26 j 17:50	15° 		

Attention, astronomical year style is used: The year -11668 in astronomical counting style is the year 11669 BCE in historical counting style.

retrograde	-11668 Feb 10 j 02:07	16° Ω 24'02		conjunction	-11662 Nov 10 j 02:55	29° Ω 21'23	0°44'05
opposition	-11668 Apr 30 j 23:42	14° Ω 59'03	1°27'38	minimum elong	-11662 Nov 10 j 02:56	29° Ω 21'23	0°44'27
min. Earth dist.	-11668 Apr 29 j 22:23	15° Ω 00'48	29.04049 AU	max. Earth dist.	-11662 Nov 11 j 05:09	29° Ω 23'50	30.97593 AU
	-11668 Apr 30 j 09:57	15° κ Ω		morning rise	-11662 Nov 26 j 01:09	29° Ω 56'59	
direct	-11668 Jul 17 j 16:31	13° Ω 36'26			-11662 Nov 27 j 10:15	0° η	
	-11668 Sep 28 j 06:56	15° Ω		retrograde	-11661 Feb 25 j 18:09	1° η 55'34	
evening set	-11668 Oct 11 j 14:56	15° Ω 28'26		min. Earth dist.	-11661 May 16 j 09:45	0° η 31'56	28.97265 AU
				opposition	-11661 May 17 j 11:02	0° η 30'11	0°43'47
conjunction	-11668 Oct 27 j 04:24	16° Ω 03'19	1°19'15		-11661 Jun 04 j 22:01	30° κ Ω	
minimum elong	-11668 Oct 27 j 04:25	16° Ω 03'19	1°19'44	direct	-11661 Aug 02 j 20:04	29° Ω 07'13	
max. Earth dist.	-11668 Oct 28 j 06:20	16° Ω 05'46	31.03523 AU		-11661 Sep 28 j 08:17	0° η	
morning rise	-11668 Nov 11 j 22:03	16° Ω 38'36		evening set	-11661 Oct 27 j 20:18	0° η 59'07	
retrograde	-11667 Feb 11 j 14:39	18° Ω 37'15					
min. Earth dist.	-11667 May 02 j 11:42	17° Ω 13'54	29.03158 AU	conjunction	-11661 Nov 12 j 14:58	1° η 34'22	0°37'56
opposition	-11667 May 03 j 12:03	17° Ω 12'13	1°21'41	minimum elong	-11661 Nov 12 j 14:59	1° η 34'22	0°38'18
direct	-11667 Jul 20 j 04:12	15° Ω 49'35		max. Earth dist.	-11661 Nov 13 j 18:13	1° η 36'55	30.96862 AU
evening set	-11667 Oct 14 j 01:46	17° Ω 41'32		morning rise	-11661 Nov 28 j 13:48	2° η 10'01	
				retrograde	-11660 Feb 28 j 06:19	4° η 08'38	
conjunction	-11667 Oct 29 j 16:06	18° Ω 16'29	1°13'38	opposition	-11660 May 18 j 22:43	2° η 43'14	0°37'11
minimum elong	-11667 Oct 29 j 16:07	18° Ω 16'29	1°14'07	min. Earth dist.	-11660 May 17 j 21:46	2° η 44'58	28.96592 AU
max. Earth dist.	-11667 Oct 30 j 18:17	18° Ω 18'57	31.02593 AU	direct	-11660 Aug 04 j 07:00	1° η 20'16	
morning rise	-11667 Nov 14 j 10:28	18° Ω 51'49		evening set	-11660 Oct 29 j 07:33	3° η 12'12	
retrograde	-11666 Feb 14 j 04:46	20° Ω 50'28					
min. Earth dist.	-11666 May 04 j 22:48	19° Ω 27'06	29.02163 AU	conjunction	-11660 Nov 14 j 02:55	3° η 47'30	0°31'44
opposition	-11666 May 06 j 00:02	19° Ω 25'22	1°15'36	minimum elong	-11660 Nov 14 j 02:56	3° η 47'30	0°32'03
direct	-11666 Jul 22 j 16:21	18° Ω 02'40		max. Earth dist.	-11660 Nov 15 j 05:55	3° η 50'02	30.96264 AU
evening set	-11666 Oct 16 j 12:46	19° Ω 54'35		morning rise	-11660 Nov 30 j 02:29	4° η 23'13	
				retrograde	-11659 Mar 01 j 21:02	6° η 21'51	
conjunction	-11666 Nov 01 j 03:44	20° Ω 29'36	1°07'54	min. Earth dist.	-11659 May 20 j 08:34	4° η 58'15	28.96039 AU
minimum elong	-11666 Nov 01 j 03:45	20° Ω 29'36	1°08'21	opposition	-11659 May 21 j 10:20	4° η 56'28	0°30'30
max. Earth dist.	-11666 Nov 02 j 05:14	20° Ω 32'00	31.01559 AU	direct	-11659 Aug 06 j 17:39	3° η 33'29	
morning rise	-11666 Nov 16 j 23:02	21° Ω 05'00		evening set	-11659 Oct 31 j 19:13	5° η 25'29	
retrograde	-11665 Feb 16 j 16:10	23° Ω 03'38					
opposition	-11665 May 08 j 12:08	21° Ω 38'27	1°09'26	conjunction	-11659 Nov 16 j 15:12	6° η 00'51	0°25'28
min. Earth dist.	-11665 May 07 j 12:01	21° Ω 40'07	29.01094 AU	minimum elong	-11659 Nov 16 j 15:12	6° η 00'51	0°25'47
direct	-11665 Jul 25 j 02:21	20° Ω 15'41		max. Earth dist.	-11659 Nov 17 j 18:17	6° η 03'23	30.95747 AU
evening set	-11665 Oct 18 j 23:39	22° Ω 07'34		morning rise	-11659 Dec 02 j 15:27	6° η 36'36	
				retrograde	-11658 Mar 04 j 10:24	8° η 35'16	
conjunction	-11665 Nov 03 j 15:30	22° Ω 42'38	1°02'05	opposition	-11658 May 23 j 21:54	7° η 09'54	0°23'47
minimum elong	-11665 Nov 03 j 15:31	22° Ω 42'38	1°02'30	min. Earth dist.	-11658 May 22 j 21:13	7° η 11'37	28.95551 AU
max. Earth dist.	-11665 Nov 04 j 17:59	22° Ω 45'07	31.00482 AU	direct	-11658 Aug 09 j 04:55	5° η 46'56	
morning rise	-11665 Nov 19 j 11:22	23° Ω 18'05		evening set	-11658 Nov 03 j 07:00	7° η 38'59	
retrograde	-11664 Feb 19 j 03:33	25° Ω 16'41					
opposition	-11664 May 09 j 23:53	23° Ω 51'26	1°03'09	conjunction	-11658 Nov 19 j 03:46	8° η 14'25	0°19'10
min. Earth dist.	-11664 May 08 j 22:55	23° Ω 53'10	29.00006 AU	minimum elong	-11658 Nov 19 j 03:46	8° η 14'25	0°19'26
direct	-11664 Jul 26 j 14:06	22° Ω 28'37		max. Earth dist.	-11658 Nov 20 j 06:59	8° η 16'58	30.95286 AU
evening set	-11664 Oct 20 j 10:44	24° Ω 20'28		morning rise	-11658 Dec 05 j 04:33	8° η 50'13	
				retrograde	-11657 Mar 07 j 01:26	10° η 48'54	
conjunction	-11664 Nov 05 j 03:08	24° Ω 55'34	0°56'10	min. Earth dist.	-11657 May 25 j 08:00	9° η 25'20	28.95083 AU
minimum elong	-11664 Nov 05 j 03:09	24° Ω 55'34	0°56'33	opposition	-11657 May 26 j 09:23	9° η 23'34	0°17'01
max. Earth dist.	-11664 Nov 06 j 04:45	24° Ω 57'59	30.99424 AU	direct	-11657 Aug 11 j 17:02	8° η 00'36	
morning rise	-11664 Nov 20 j 23:56	25° Ω 31'04		evening set	-11657 Nov 05 j 19:02	9° η 52'44	
retrograde	-11663 Feb 20 j 16:25	27° Ω 29'40					
min. Earth dist.	-11663 May 11 j 11:10	26° Ω 06'04	28.98986 AU	conjunction	-11657 Nov 21 j 16:15	10° η 28'12	0°12'50
opposition	-11663 May 12 j 11:45	26° Ω 04'21	0°56'47	minimum elong	-11657 Nov 21 j 16:15	10° η 28'12	0°13'06
direct	-11663 Jul 28 j 22:50	24° Ω 41'28		behind sun begin	-11657 Nov 21 j 12:24	10° η 27'51	
evening set	-11663 Oct 22 j 21:42	26° Ω 33'19		behind sun end	-11657 Nov 21 j 20:06	10° η 28'33	
				max. Earth dist.	-11657 Nov 22 j 18:34	10° η 30'40	30.94800 AU
conjunction	-11663 Nov 07 j 15:01	27° Ω 08'28	0°50'10	morning rise	-11657 Dec 07 j 17:44	11° η 04'03	
minimum elong	-11663 Nov 07 j 15:01	27° Ω 08'28	0°50'33	retrograde	-11656 Mar 08 j 13:29	13° η 02'45	
max. Earth dist.	-11663 Nov 08 j 17:58	27° Ω 11'00	30.98449 AU	opposition	-11656 May 27 j 21:00	11° η 37'26	0°10'13
morning rise	-11663 Nov 23 j 12:23	27° Ω 44'01		min. Earth dist.	-11656 May 26 j 21:03	11° η 39'07	28.94579 AU
retrograde	-11662 Feb 23 j 04:01	29° Ω 42'37		direct	-11656 Aug 13 j 02:51	10° η 14'29	
opposition	-11662 May 14 j 23:28	28° Ω 17'15	0°50'19	evening set	-11656 Nov 07 j 07:07	12° η 06'40	
min. Earth dist.	-11662 May 13 j 22:26	28° Ω 18'59	28.98056 AU				
direct	-11662 Jul 31 j 10:05	26° Ω 54'19		conjunction	-11656 Nov 23 j 05:08	12° η 42'10	0°06'30
evening set	-11662 Oct 25 j 09:01	28° Ω 46'11		minimum elong	-11656 Nov 23 j 05:07	12° η 42'10	0°06'43

Attention, astronomical year style is used: The year -11656 in astronomical counting style is the year 11657 BCE in historical counting style.

behind sun begin	-11656 Nov 22 j 23:01	12° <u>11</u> 41'38		conjunction	-11650 Dec 07 j 11:32	26° <u>11</u> 06'24	-0°31'40
behind sun end	-11656 Nov 23 j 11:13	12° <u>11</u> 42'43		minimum elong	-11650 Dec 07 j 11:31	26° <u>11</u> 06'24	0°31'35
max. Earth dist.	-11656 Nov 24 j 07:52	12° <u>11</u> 44'41	30.94266 AU	max. Earth dist.	-11650 Dec 08 j 11:04	26° <u>11</u> 08'36	30.89866 AU
morning rise	-11656 Dec 09 j 07:02	13° <u>11</u> 18'05		morning rise	-11650 Dec 23 j 16:27	26° <u>11</u> 42'28	
retrograde	-11655 Mar 11 j 02:20	15° <u>11</u> 16'46		retrograde	-11649 Mar 25 j 05:46	28° <u>11</u> 40'55	
min. Earth dist.	-11655 May 29 j 08:14	13° <u>11</u> 53'10	28.93996 AU	min. Earth dist.	-11649 Jun 12 j 07:24	27° <u>11</u> 16'53	28.89620 AU
opposition	-11655 May 30 j 08:28	13° <u>11</u> 51'28	0°03'24	opposition	-11649 Jun 13 j 04:13	27° <u>11</u> 15'25	-0°37'15
direct	-11655 Aug 15 j 14:40	12° <u>11</u> 28'29		direct	-11649 Aug 29 j 07:34	25° <u>11</u> 51'59	
evening set	-11655 Nov 09 j 19:31	14° <u>11</u> 20'43		evening set	-11649 Nov 23 j 23:03	27° <u>11</u> 44'32	
conjunction	-11655 Nov 25 j 17:58	14° <u>11</u> 56'17	0°00'04	conjunction	-11649 Dec 10 j 00:44	28° <u>11</u> 20'16	-0°37'54
minimum elong	-11655 Nov 25 j 17:58	14° <u>11</u> 56'17	0°00'17	minimum elong	-11649 Dec 10 j 00:43	28° <u>11</u> 20'16	0°37'50
behind sun begin	-11655 Nov 25 j 11:29	14° <u>11</u> 55'42		max. Earth dist.	-11649 Dec 11 j 00:17	28° <u>11</u> 22'28	30.89331 AU
behind sun end	-11655 Nov 26 j 00:28	14° <u>11</u> 56'51		morning rise	-11649 Dec 26 j 05:56	28° <u>11</u> 56'22	
max. Earth dist.	-11655 Nov 26 j 19:01	14° <u>11</u> 58'37	30.93637 AU		-11648 Jan 27 j 06:34	0° <u>11</u>	
desc. node	-11655 Nov 28 j 17:18	15° <u>11</u> 02'58		retrograde	-11648 Mar 26 j 19:47	0° <u>11</u> 54'46	
morning rise	-11655 Dec 11 j 20:38	15° <u>11</u> 32'13			-11648 May 27 j 01:31	30° <u>11</u>	
retrograde	-11654 Mar 13 j 15:51	17° <u>11</u> 30'54		opposition	-11648 Jun 14 j 15:11	29° <u>11</u> 29'17	-0°43'53
opposition	-11654 Jun 01 j 20:04	16° <u>11</u> 05'35	-0°03'25	min. Earth dist.	-11648 Jun 13 j 17:35	29° <u>11</u> 30'48	28.89152 AU
min. Earth dist.	-11654 May 31 j 20:58	16° <u>11</u> 07'12	28.93317 AU	direct	-11648 Aug 30 j 20:09	28° <u>11</u> 05'47	
direct	-11654 Aug 17 j 23:45	14° <u>11</u> 42'32		evening set	-11648 Nov 25 j 12:04	29° <u>11</u> 58'25	
evening set	-11654 Nov 12 j 07:56	16° <u>11</u> 34'50			-11648 Nov 26 j 05:22	0° <u>11</u>	
conjunction	-11654 Nov 28 j 07:08	17° <u>11</u> 10'25	-0°06'24	conjunction	-11648 Dec 11 j 14:03	0° <u>11</u> 34'12	-0°44'05
minimum elong	-11654 Nov 28 j 07:07	17° <u>11</u> 10'25	0°06'13	minimum elong	-11648 Dec 11 j 14:02	0° <u>11</u> 34'12	0°44'03
behind sun begin	-11654 Nov 28 j 00:56	17° <u>11</u> 09'52		max. Earth dist.	-11648 Dec 12 j 12:46	0° <u>11</u> 36'19	30.88924 AU
behind sun end	-11654 Nov 28 j 13:19	17° <u>11</u> 10'59		morning rise	-11648 Dec 27 j 19:43	1° <u>11</u> 10'19	
max. Earth dist.	-11654 Nov 29 j 08:38	17° <u>11</u> 12'48	30.92905 AU	retrograde	-11647 Mar 29 j 08:31	3° <u>11</u> 08'41	
morning rise	-11654 Dec 14 j 10:08	17° <u>11</u> 46'24		min. Earth dist.	-11647 Jun 16 j 06:00	1° <u>11</u> 44'39	28.88819 AU
retrograde	-11653 Mar 16 j 02:50	19° <u>11</u> 45'02		opposition	-11647 Jun 17 j 02:16	1° <u>11</u> 43'13	-0°50'28
min. Earth dist.	-11653 Jun 03 j 08:35	18° <u>11</u> 21'18	28.92537 AU	direct	-11647 Sep 02 j 06:14	0° <u>11</u> 19'42	
opposition	-11653 Jun 04 j 07:22	18° <u>11</u> 19'42	-0°10'14	evening set	-11647 Nov 28 j 01:05	2° <u>11</u> 12'26	
direct	-11653 Aug 20 j 11:33	16° <u>11</u> 56'35					
evening set	-11653 Nov 14 j 20:29	18° <u>11</u> 48'55		conjunction	-11647 Dec 14 j 03:40	2° <u>11</u> 48'14	-0°50'12
conjunction	-11653 Nov 30 j 20:06	19° <u>11</u> 24'32	-0°12'44	minimum elong	-11647 Dec 14 j 03:39	2° <u>11</u> 48'14	0°50'11
minimum elong	-11653 Nov 30 j 20:07	19° <u>11</u> 24'32	0°12'34	max. Earth dist.	-11647 Dec 15 j 02:52	2° <u>11</u> 50'24	30.88647 AU
behind sun begin	-11653 Nov 30 j 15:58	19° <u>11</u> 24'10		morning rise	-11647 Dec 30 j 09:31	3° <u>11</u> 24'22	
behind sun end	-11653 Dec 01 j 00:15	19° <u>11</u> 24'54		retrograde	-11646 Mar 31 j 22:18	5° <u>11</u> 22'42	
max. Earth dist.	-11653 Dec 01 j 20:08	19° <u>11</u> 26'47	30.92109 AU	opposition	-11646 Jun 19 j 13:13	3° <u>11</u> 57'17	-0°56'58
morning rise	-11653 Dec 16 j 23:46	20° <u>11</u> 00'32		min. Earth dist.	-11646 Jun 18 j 16:39	3° <u>11</u> 58'45	28.88582 AU
retrograde	-11652 Mar 17 j 15:47	21° <u>11</u> 59'08		direct	-11646 Sep 04 j 18:36	2° <u>11</u> 33'46	
opposition	-11652 Jun 05 j 18:44	20° <u>11</u> 33'45	-0°17'03	evening set	-11646 Nov 30 j 14:31	4° <u>11</u> 26'37	
min. Earth dist.	-11652 Jun 04 j 20:18	20° <u>11</u> 35'19	28.91731 AU				
direct	-11652 Aug 21 j 21:44	19° <u>11</u> 10'32		conjunction	-11646 Dec 16 j 17:16	5° <u>11</u> 02'27	-0°56'15
evening set	-11652 Nov 16 j 08:51	21° <u>11</u> 02'54		minimum elong	-11646 Dec 16 j 17:16	5° <u>11</u> 02'26	0°56'17
conjunction	-11652 Dec 02 j 09:06	21° <u>11</u> 38'34	-0°19'04	max. Earth dist.	-11646 Dec 17 j 14:49	5° <u>11</u> 04'27	30.88440 AU
minimum elong	-11652 Dec 02 j 09:06	21° <u>11</u> 38'34	0°18'57	morning rise	-11645 Jan 01 j 23:32	5° <u>11</u> 38'36	
max. Earth dist.	-11652 Dec 03 j 09:39	21° <u>11</u> 40'51	30.91296 AU	retrograde	-11645 Apr 03 j 11:51	7° <u>11</u> 36'55	
morning rise	-11652 Dec 18 j 13:08	22° <u>11</u> 14'35		min. Earth dist.	-11645 Jun 21 j 04:47	6° <u>11</u> 12'55	28.88409 AU
retrograde	-11651 Mar 20 j 03:10	24° <u>11</u> 13'08		opposition	-11645 Jun 22 j 00:11	6° <u>11</u> 11'33	-1°03'24
min. Earth dist.	-11651 Jun 07 j 08:27	22° <u>11</u> 49'13	28.90934 AU	direct	-11645 Sep 07 j 04:09	4° <u>11</u> 48'00	
opposition	-11651 Jun 08 j 06:01	22° <u>11</u> 47'42	-0°23'49	evening set	-11645 Dec 03 j 03:55	6° <u>11</u> 40'59	
direct	-11651 Aug 24 j 08:35	21° <u>11</u> 24'25					
evening set	-11651 Nov 18 j 21:32	23° <u>11</u> 16'49		conjunction	-11645 Dec 19 j 07:10	7° <u>11</u> 16'50	-1°02'13
conjunction	-11651 Dec 04 j 22:16	23° <u>11</u> 52'31	-0°25'23	minimum elong	-11645 Dec 19 j 07:10	7° <u>11</u> 16'50	1°02'16
minimum elong	-11651 Dec 04 j 22:16	23° <u>11</u> 52'31	0°25'16	max. Earth dist.	-11645 Dec 20 j 05:07	7° <u>11</u> 18'53	30.88267 AU
max. Earth dist.	-11651 Dec 05 j 22:00	23° <u>11</u> 54'43	30.90539 AU	morning rise	-11644 Jan 04 j 13:29	7° <u>11</u> 53'01	
morning rise	-11651 Dec 21 j 02:48	24° <u>11</u> 28'33		retrograde	-11644 Apr 04 j 23:23	9° <u>11</u> 51'19	
retrograde	-11650 Mar 22 j 17:09	26° <u>11</u> 27'03		opposition	-11644 Jun 23 j 11:10	8° <u>11</u> 26'01	-1°09'44
opposition	-11650 Jun 10 j 17:02	25° <u>11</u> 01'35	-0°30'33	min. Earth dist.	-11644 Jun 22 j 16:15	8° <u>11</u> 27'21	28.88231 AU
min. Earth dist.	-11650 Jun 09 j 19:05	25° <u>11</u> 03'08	28.90223 AU	direct	-11644 Sep 08 j 15:49	7° <u>11</u> 02'27	
direct	-11650 Aug 26 j 19:45	23° <u>11</u> 38'12		evening set	-11644 Dec 04 j 17:31	8° <u>11</u> 55'33	
evening set	-11650 Nov 21 j 10:22	25° <u>11</u> 30'41					
conjunction				conjunction	-11644 Dec 20 j 20:59	9° <u>11</u> 31'26	-1°08'06
minimum elong				minimum elong	-11644 Dec 20 j 20:58	9° <u>11</u> 31'26	1°08'11
max. Earth dist.				max. Earth dist.	-11644 Dec 21 j 17:01	9° <u>11</u> 33'18	30.88070 AU
morning rise				morning rise	-11643 Jan 06 j 03:41	10° <u>11</u> 07'37	

Attention, astronomical year style is used: The year -11643 in astronomical counting style is the year 11644 BCE in historical counting style.

retrograde	-11643 Apr 07 j 12:45	12° <u>05</u> '54		minimum elong	-11636 Jan 07 j 00:34	25° <u>14</u> '45	1°46'08
opposition	-11643 Jun 25 j 22:14	10° <u>40</u> '39	-1°15'58	max. Earth dist.	-11636 Jan 07 j 14:13	25° <u>16</u> '02	30.84986 AU
min. Earth dist.	-11643 Jun 25 j 04:06	10° <u>41</u> '56	28.88008 AU	morning rise	-11636 Jan 23 j 07:54	25° <u>50</u> '56	
direct	-11643 Sep 11 j 01:54	9° <u>17</u> '03		retrograde	-11636 Apr 23 j 07:02	27° <u>48</u> '44	
evening set	-11643 Dec 07 j 07:23	11° <u>10</u> '17		opposition	-11636 Jul 11 j 01:52	26° <u>23</u> '32	-1°55'53
				min. Earth dist.	-11636 Jul 10 j 13:41	26° <u>24</u> '24	28.84975 AU
conjunction	-11643 Dec 23 j 11:14	11° <u>46</u> '11	-1°13'53	direct	-11636 Sep 26 j 12:40	24° <u>59</u> '23	
minimum elong	-11643 Dec 23 j 11:13	11° <u>46</u> '11	1°13'58	evening set	-11636 Dec 23 j 09:36	26° <u>53</u> '24	
max. Earth dist.	-11643 Dec 24 j 07:07	11° <u>48</u> '03	30.87784 AU				
morning rise	-11642 Jan 08 j 17:59	12° <u>22</u> '23		conjunction	-11635 Jan 08 j 14:54	27° <u>29</u> '22	-1°50'43
retrograde	-11642 Apr 10 j 00:28	14° <u>20</u> '37		minimum elong	-11635 Jan 08 j 14:52	27° <u>29</u> '21	1°50'59
opposition	-11642 Jun 28 j 09:12	12° <u>55</u> '25	-1°22'06	max. Earth dist.	-11635 Jan 09 j 04:58	27° <u>30</u> '40	30.84757 AU
min. Earth dist.	-11642 Jun 27 j 16:35	12° <u>56</u> '35	28.87674 AU	morning rise	-11635 Jan 24 j 22:02	28° <u>05</u> '32	
direct	-11642 Sep 13 j 12:32	11° <u>31</u> '46			-11635 Apr 11 j 19:16	0° <u>11</u> '15	
evening set	-11642 Dec 09 j 21:23	13° <u>25</u> '07		retrograde	-11635 Apr 25 j 18:27	0° <u>10</u> '31	
					-11635 May 09 j 17:24	30° <u>11</u> '15	
conjunction	-11642 Dec 26 j 01:28	14° <u>01</u> '02	-1°19'33	opposition	-11635 Jul 13 j 12:30	28° <u>38</u> '06	-2°00'56
minimum elong	-11642 Dec 26 j 01:27	14° <u>01</u> '02	1°19'41	min. Earth dist.	-11635 Jul 13 j 00:39	28° <u>38</u> '57	28.84817 AU
max. Earth dist.	-11642 Dec 26 j 19:36	14° <u>02</u> '43	30.87399 AU	direct	-11635 Sep 29 j 01:04	27° <u>13</u> '54	
morning rise	-11641 Jan 11 j 08:27	14° <u>37</u> '14		evening set	-11635 Dec 25 j 23:59	29° <u>08</u> '02	
retrograde	-11641 Apr 12 j 14:08	16° <u>35</u> '25					
opposition	-11641 Jun 30 j 20:10	15° <u>10</u> '14	-1°28'06	conjunction	-11634 Jan 11 j 05:14	29° <u>44</u> '00	-1°55'22
min. Earth dist.	-11641 Jun 30 j 03:46	15° <u>11</u> '23	28.87241 AU	minimum elong	-11634 Jan 11 j 05:13	29° <u>44</u> '00	1°55'39
direct	-11641 Sep 16 j 00:07	13° <u>46</u> '30		max. Earth dist.	-11634 Jan 11 j 17:28	29° <u>45</u> '09	30.84667 AU
evening set	-11641 Dec 12 j 11:16	15° <u>39</u> '58			-11634 Jan 18 j 09:01	0° <u>11</u> '15	
				morning rise	-11634 Jan 27 j 12:30	0° <u>11</u> '20	
conjunction	-11641 Dec 28 j 15:34	16° <u>15</u> '54	-1°25'06	retrograde	-11634 Apr 28 j 07:45	2° <u>11</u> '49	
minimum elong	-11641 Dec 28 j 15:33	16° <u>15</u> '54	1°25'14	opposition	-11634 Jul 15 j 22:59	0° <u>52</u> '44	-2°05'49
max. Earth dist.	-11641 Dec 29 j 08:55	16° <u>17</u> '31	30.86906 AU	min. Earth dist.	-11634 Jul 15 j 11:40	0° <u>53</u> '32	28.84803 AU
morning rise	-11640 Jan 13 j 22:37	16° <u>52</u> '05			-11634 Aug 18 j 06:52	30° <u>11</u> '15	
retrograde	-11640 Apr 14 j 02:01	18° <u>50</u> '13		direct	-11634 Oct 01 j 11:16	29° <u>42</u> '28	
opposition	-11640 Jul 02 j 07:10	17° <u>25</u> '01	-1°33'57		-11634 Nov 13 j 22:35	0° <u>11</u> '15	
min. Earth dist.	-11640 Jul 01 j 16:31	17° <u>26</u> '04	28.86723 AU	evening set	-11634 Dec 28 j 14:20	1° <u>11</u> '22	
direct	-11640 Sep 17 j 12:18	16° <u>01</u> '13					
evening set	-11640 Dec 14 j 01:13	17° <u>54</u> '47		conjunction	-11633 Jan 13 j 19:47	1° <u>11</u> '58	-1°59'50
				minimum elong	-11633 Jan 13 j 19:45	1° <u>11</u> '58	2°00'09
conjunction	-11640 Dec 30 j 05:50	18° <u>30</u> '43	-1°30'31	max. Earth dist.	-11633 Jan 14 j 08:16	1° <u>11</u> '59	30.84695 AU
minimum elong	-11640 Dec 30 j 05:49	18° <u>30</u> '43	1°30'42	morning rise	-11633 Jan 30 j 02:49	2° <u>11</u> '34	
max. Earth dist.	-11640 Dec 30 j 22:22	18° <u>32</u> '16	30.86373 AU	retrograde	-11633 Apr 30 j 19:05	4° <u>11</u> '32	
morning rise	-11639 Jan 15 j 12:58	19° <u>06</u> '54		opposition	-11633 Jul 18 j 09:39	3° <u>11</u> '07	-2°10'30
retrograde	-11639 Apr 16 j 15:35	21° <u>04</u> '57		min. Earth dist.	-11633 Jul 17 j 23:35	3° <u>11</u> '08	28.84884 AU
opposition	-11639 Jul 04 j 17:49	19° <u>39</u> '45	-1°39'41	direct	-11633 Oct 03 j 21:38	1° <u>11</u> '43	
min. Earth dist.	-11639 Jul 04 j 03:01	19° <u>40</u> '48	28.86187 AU	evening set	-11633 Dec 31 j 04:42	3° <u>11</u> '37	
direct	-11639 Sep 20 j 01:30	18° <u>15</u> '50					
evening set	-11639 Dec 16 j 15:23	20° <u>09</u> '31		conjunction	-11632 Jan 16 j 10:07	4° <u>11</u> '33	-2°04'08
				minimum elong	-11632 Jan 16 j 10:06	4° <u>11</u> '33	2°04'28
conjunction	-11638 Jan 01 j 20:06	20° <u>45</u> '28	-1°35'48	max. Earth dist.	-11632 Jan 16 j 21:03	4° <u>11</u> '43	30.84814 AU
minimum elong	-11638 Jan 01 j 20:04	20° <u>45</u> '28	1°35'59	morning rise	-11632 Feb 01 j 17:10	4° <u>11</u> '49	
max. Earth dist.	-11638 Jan 02 j 11:19	20° <u>46</u> '53	30.85832 AU	retrograde	-11632 May 02 j 07:39	6° <u>11</u> '47	
morning rise	-11638 Jan 18 j 03:23	21° <u>21</u> '39		opposition	-11632 Jul 19 j 20:11	5° <u>11</u> '22	-2°14'59
retrograde	-11638 Apr 19 j 04:14	23° <u>19</u> '37		min. Earth dist.	-11632 Jul 19 j 10:14	5° <u>11</u> '23	28.85034 AU
opposition	-11638 Jul 07 j 04:38	21° <u>54</u> '24	-1°45'14	direct	-11632 Oct 05 j 09:09	3° <u>11</u> '58	
min. Earth dist.	-11638 Jul 06 j 15:33	21° <u>55</u> '20	28.85684 AU	evening set	-11631 Jan 01 j 19:20	5° <u>11</u> '52	
direct	-11638 Sep 22 j 12:26	20° <u>30</u> '24					
evening set	-11638 Dec 19 j 05:25	22° <u>24</u> '11		conjunction	-11631 Jan 18 j 00:48	6° <u>11</u> '28	-2°08'14
				minimum elong	-11631 Jan 18 j 00:47	6° <u>11</u> '28	2°08'36
conjunction	-11637 Jan 04 j 10:25	23° <u>00</u> '08	-1°40'55	max. Earth dist.	-11631 Jan 18 j 11:03	6° <u>11</u> '29	30.84952 AU
minimum elong	-11637 Jan 04 j 10:24	23° <u>00</u> '08	1°41'10	morning rise	-11631 Feb 03 j 07:40	7° <u>11</u> '04	
max. Earth dist.	-11637 Jan 05 j 01:45	23° <u>01</u> '34	30.85357 AU	retrograde	-11631 May 04 j 18:44	9° <u>11</u> '02	
morning rise	-11637 Jan 20 j 17:35	23° <u>36</u> '19		opposition	-11631 Jul 22 j 06:46	7° <u>11</u> '37	-2°19'17
retrograde	-11637 Apr 21 j 18:06	25° <u>34</u> '11		min. Earth dist.	-11631 Jul 21 j 22:48	7° <u>11</u> '37	28.85176 AU
opposition	-11637 Jul 09 j 15:12	24° <u>08</u> '59	-1°50'39	direct	-11631 Oct 07 j 20:31	6° <u>11</u> '12	
min. Earth dist.	-11637 Jul 09 j 01:58	24° <u>09</u> '55	28.85261 AU	evening set	-11630 Jan 04 j 10:08	8° <u>11</u> '07	
direct	-11637 Sep 25 j 01:59	22° <u>44</u> '54					
evening set	-11637 Dec 21 j 19:37	24° <u>38</u> '48		conjunction	-11630 Jan 20 j 15:40	8° <u>11</u> '43	-2°12'09
				minimum elong	-11630 Jan 20 j 15:39	8° <u>11</u> '43	2°12'31
conjunction	-11636 Jan 07 j 00:35	25° <u>14</u> '45	-1°45'54	max. Earth dist.	-11630 Jan 21 j 00:32	8° <u>11</u> '44	30.85068 AU

Attention, astronomical year style is used: The year -11630 in astronomical counting style is the year 11631 BCE in historical counting style.

morning rise	-11630 Feb 05 j 22:25	9° \mathbb{M} 19'47		direct	-11624 Oct 23 j 10:57	21° \mathbb{M} 56'18	
retrograde	-11630 May 07 j 08:17	11° \mathbb{M} 17'10		evening set	-11623 Jan 20 j 17:34	23° \mathbb{M} 51'52	
opposition	-11630 Jul 24 j 17:22	9° \mathbb{M} 52'22	-2°23'21				
min. Earth dist.	-11630 Jul 24 j 09:31	9° \mathbb{M} 52'56	28.85260 AU	conjunction	-11623 Feb 05 j 22:49	24° \mathbb{M} 27'47	-2°33'35
direct	-11630 Oct 10 j 09:16	8° \mathbb{M} 27'56		minimum elong	-11623 Feb 05 j 22:48	24° \mathbb{M} 27'47	2°34'05
evening set	-11629 Jan 07 j 01:01	10° \mathbb{M} 22'51		max. Earth dist.	-11623 Feb 05 j 23:37	24° \mathbb{M} 27'52	30.84788 AU
				morning rise	-11623 Feb 22 j 04:15	25° \mathbb{M} 03'45	
conjunction	-11629 Jan 23 j 06:26	10° \mathbb{M} 58'48	-2°15'51	retrograde	-11623 May 22 j 22:01	27° \mathbb{M} 00'18	
minimum elong	-11629 Jan 23 j 06:25	10° \mathbb{M} 58'48	2°16'16	opposition	-11623 Aug 08 j 18:42	25° \mathbb{M} 35'44	-2°45'26
max. Earth dist.	-11629 Jan 23 j 13:39	10° \mathbb{M} 59'29	30.85092 AU	min. Earth dist.	-11623 Aug 08 j 17:24	25° \mathbb{M} 35'50	28.85119 AU
morning rise	-11629 Feb 08 j 13:02	11° \mathbb{M} 34'54		direct	-11623 Oct 25 j 22:49	24° \mathbb{M} 10'44	
retrograde	-11629 May 09 j 20:23	13° \mathbb{M} 32'12		evening set	-11622 Jan 23 j 08:20	26° \mathbb{M} 06'26	
opposition	-11629 Jul 27 j 04:05	12° \mathbb{M} 07'26	-2°27'12				
min. Earth dist.	-11629 Jul 26 j 22:19	12° \mathbb{M} 07'51	28.85256 AU	conjunction	-11622 Feb 08 j 13:34	26° \mathbb{M} 42'21	-2°35'44
direct	-11629 Oct 12 j 20:41	10° \mathbb{M} 42'56		minimum elong	-11622 Feb 08 j 13:32	26° \mathbb{M} 42'21	2°36'15
evening set	-11628 Jan 09 j 15:47	12° \mathbb{M} 37'57		max. Earth dist.	-11622 Feb 08 j 14:04	26° \mathbb{M} 42'24	30.85044 AU
				morning rise	-11622 Feb 24 j 18:38	27° \mathbb{M} 18'17	
conjunction	-11628 Jan 25 j 21:20	13° \mathbb{M} 13'55	-2°19'21	retrograde	-11622 May 25 j 08:28	29° \mathbb{M} 14'44	
minimum elong	-11628 Jan 25 j 21:19	13° \mathbb{M} 13'55	2°19'46	opposition	-11622 Aug 11 j 05:13	27° \mathbb{M} 50'16	-2°47'37
max. Earth dist.	-11628 Jan 26 j 03:56	13° \mathbb{M} 14'32	30.85044 AU	min. Earth dist.	-11622 Aug 11 j 05:28	27° \mathbb{M} 50'14	28.85459 AU
morning rise	-11628 Feb 11 j 03:40	13° \mathbb{M} 49'59		direct	-11622 Oct 28 j 09:50	26° \mathbb{M} 25'13	
	-11628 Mar 18 j 01:41	15° \mathbb{M}		evening set	-11621 Jan 25 j 22:58	28° \mathbb{M} 21'03	
retrograde	-11628 May 11 j 09:41	15° \mathbb{M} 47'10					
	-11628 Jul 05 j 20:21	15° \mathbb{R} \mathbb{M}		conjunction	-11621 Feb 11 j 04:05	28° \mathbb{M} 56'58	-2°37'39
opposition	-11628 Jul 28 j 14:35	14° \mathbb{M} 22'26	-2°30'50	minimum elong	-11621 Feb 11 j 04:04	28° \mathbb{M} 56'58	2°38'12
min. Earth dist.	-11628 Jul 28 j 09:11	14° \mathbb{M} 22'49	28.85172 AU	max. Earth dist.	-11621 Feb 11 j 03:34	28° \mathbb{M} 56'55	30.85458 AU
direct	-11628 Oct 14 j 10:59	12° \mathbb{M} 57'51		morning rise	-11621 Feb 27 j 08:57	29° \mathbb{M} 32'52	
evening set	-11627 Jan 11 j 06:38	14° \mathbb{M} 52'59			-11621 Mar 12 j 04:28	0° \mathbb{M}	
	-11627 Jan 14 j 11:46	15° \mathbb{M}		retrograde	-11621 May 27 j 21:12	1° \mathbb{M} 29'14	
conjunction	-11627 Jan 27 j 12:03	15° \mathbb{M} 28'56	-2°22'39	opposition	-11621 Aug 13 j 15:31	0° \mathbb{M} 04'52	-2°49'32
minimum elong	-11627 Jan 27 j 12:02	15° \mathbb{M} 28'56	2°23'06	min. Earth dist.	-11621 Aug 13 j 15:29	0° \mathbb{M} 04'52	28.85937 AU
max. Earth dist.	-11627 Jan 27 j 16:27	15° \mathbb{M} 29'21	30.84927 AU		-11621 Aug 16 j 11:37	30° \mathbb{R} \mathbb{M}	
morning rise	-11627 Feb 12 j 18:22	16° \mathbb{M} 04'59		direct	-11621 Oct 30 j 21:48	28° \mathbb{M} 39'48	
retrograde	-11627 May 13 j 22:19	18° \mathbb{M} 02'02			-11620 Jan 11 j 09:52	0° \mathbb{M}	
opposition	-11627 Jul 31 j 01:11	16° \mathbb{M} 37'19	-2°34'14	evening set	-11620 Jan 28 j 13:44	0° \mathbb{M} 35'47	
min. Earth dist.	-11627 Jul 30 j 21:20	16° \mathbb{M} 37'36	28.85051 AU	conjunction	-11620 Feb 13 j 18:42	1° \mathbb{M} 11'41	-2°39'20
direct	-11627 Oct 16 j 22:53	15° \mathbb{M} 12'38		minimum elong	-11620 Feb 13 j 18:42	1° \mathbb{M} 11'41	2°39'53
evening set	-11626 Jan 13 j 21:26	17° \mathbb{M} 07'53		max. Earth dist.	-11620 Feb 13 j 17:08	1° \mathbb{M} 11'32	30.85986 AU
				morning rise	-11620 Feb 29 j 23:19	1° \mathbb{M} 47'35	
conjunction	-11626 Jan 30 j 02:59	17° \mathbb{M} 43'49	-2°25'43	retrograde	-11620 May 29 j 08:33	3° \mathbb{M} 43'52	
minimum elong	-11626 Jan 30 j 02:58	17° \mathbb{M} 43'49	2°26'10	opposition	-11620 Aug 15 j 01:57	2° \mathbb{M} 19'35	-2°51'12
max. Earth dist.	-11626 Jan 30 j 07:17	17° \mathbb{M} 44'13	30.84790 AU	min. Earth dist.	-11620 Aug 15 j 03:42	2° \mathbb{M} 19'28	28.86522 AU
morning rise	-11626 Feb 15 j 08:55	18° \mathbb{M} 19'51		direct	-11620 Nov 01 j 08:55	0° \mathbb{M} 54'31	
retrograde	-11626 May 16 j 10:04	20° \mathbb{M} 16'46		evening set	-11619 Jan 30 j 04:27	2° \mathbb{M} 50'40	
opposition	-11626 Aug 02 j 11:33	18° \mathbb{M} 52'05	-2°37'24				
min. Earth dist.	-11626 Aug 02 j 08:28	18° \mathbb{M} 52'18	28.84924 AU	conjunction	-11619 Feb 15 j 09:27	3° \mathbb{M} 26'33	-2°40'46
direct	-11626 Oct 19 j 12:08	17° \mathbb{M} 27'18		minimum elong	-11619 Feb 15 j 09:26	3° \mathbb{M} 26'33	2°41'21
evening set	-11625 Jan 16 j 12:19	19° \mathbb{M} 22'38		max. Earth dist.	-11619 Feb 15 j 07:24	3° \mathbb{M} 26'22	30.86599 AU
				morning rise	-11619 Mar 03 j 13:46	4° \mathbb{M} 02'25	
conjunction	-11625 Feb 01 j 17:38	19° \mathbb{M} 58'35	-2°28'34	retrograde	-11619 May 31 j 21:26	5° \mathbb{M} 58'37	
minimum elong	-11625 Feb 01 j 17:37	19° \mathbb{M} 58'35	2°29'03	opposition	-11619 Aug 17 j 12:20	4° \mathbb{M} 34'27	-2°52'36
max. Earth dist.	-11625 Feb 01 j 19:48	19° \mathbb{M} 58'47	30.84688 AU	min. Earth dist.	-11619 Aug 17 j 14:25	4° \mathbb{M} 34'18	28.87139 AU
morning rise	-11625 Feb 17 j 23:32	20° \mathbb{M} 34'35		direct	-11619 Nov 03 j 23:07	3° \mathbb{M} 09'22	
retrograde	-11625 May 18 j 23:26	22° \mathbb{M} 31'22		evening set	-11618 Feb 01 j 19:28	5° \mathbb{M} 05'40	
opposition	-11625 Aug 04 j 22:01	21° \mathbb{M} 06'42	-2°40'20				
min. Earth dist.	-11625 Aug 04 j 19:32	21° \mathbb{M} 06'53	28.84874 AU	conjunction	-11618 Feb 18 j 00:11	5° \mathbb{M} 41'33	-2°41'57
direct	-11625 Oct 21 j 23:33	19° \mathbb{M} 41'50		minimum elong	-11618 Feb 18 j 00:11	5° \mathbb{M} 41'33	2°42'32
evening set	-11624 Jan 19 j 02:49	21° \mathbb{M} 37'17		max. Earth dist.	-11618 Feb 17 j 20:06	5° \mathbb{M} 41'10	30.87204 AU
				morning rise	-11618 Mar 06 j 04:18	6° \mathbb{M} 17'24	
conjunction	-11624 Feb 04 j 08:13	22° \mathbb{M} 13'13	-2°31'11	retrograde	-11618 Jun 03 j 10:03	8° \mathbb{M} 13'30	
minimum elong	-11624 Feb 04 j 08:12	22° \mathbb{M} 13'13	2°31'40	opposition	-11618 Aug 19 j 22:52	6° \mathbb{M} 49'27	-2°53'44
max. Earth dist.	-11624 Feb 04 j 10:40	22° \mathbb{M} 13'27	30.84671 AU	min. Earth dist.	-11618 Aug 20 j 02:30	6° \mathbb{M} 49'11	28.87740 AU
morning rise	-11624 Feb 20 j 13:44	22° \mathbb{M} 49'12		direct	-11618 Nov 06 j 10:55	5° \mathbb{M} 24'20	
retrograde	-11624 May 20 j 09:59	24° \mathbb{M} 45'52		evening set	-11617 Feb 04 j 10:20	7° \mathbb{M} 20'47	
opposition	-11624 Aug 06 j 08:28	23° \mathbb{M} 21'15	-2°43'00				
min. Earth dist.	-11624 Aug 06 j 07:14	23° \mathbb{M} 21'20	28.84922 AU	conjunction	-11617 Feb 20 j 15:05	7° \mathbb{M} 56'39	-2°42'54

Attention, astronomical year style is used: The year -11617 in astronomical counting style is the year 11618 BCE in historical counting style.

minimum elong	-11617 Feb 20 j 15:05	7° $\mathring{\text{A}}$ 56'39	2°43'29	evening set	-11610 Feb 20 j 16:54	23° $\mathring{\text{A}}$ 03'45	
max. Earth dist.	-11617 Feb 20 j 10:41	7° $\mathring{\text{A}}$ 56'15	30.87767 AU				
morning rise	-11617 Mar 08 j 18:46	8° $\mathring{\text{A}}$ 32'28		conjunction	-11610 Mar 08 j 20:43	23° $\mathring{\text{A}}$ 39'32	-2°42'35
retrograde	-11617 Jun 05 j 22:29	10° $\mathring{\text{A}}$ 28'27		minimum elong	-11610 Mar 08 j 20:43	23° $\mathring{\text{A}}$ 39'32	2°43'14
opposition	-11617 Aug 22 j 09:28	9° $\mathring{\text{A}}$ 04'29	-2°54'37	max. Earth dist.	-11610 Mar 08 j 08:42	23° $\mathring{\text{A}}$ 38'25	30.90604 AU
min. Earth dist.	-11617 Aug 22 j 14:02	9° $\mathring{\text{A}}$ 04'10	28.88261 AU	morning rise	-11610 Mar 24 j 22:29	24° $\mathring{\text{A}}$ 15'10	
direct	-11617 Nov 09 j 00:24	7° $\mathring{\text{A}}$ 39'22		retrograde	-11610 Jun 21 j 05:41	26° $\mathring{\text{A}}$ 10'04	
evening set	-11616 Feb 07 j 01:09	9° $\mathring{\text{A}}$ 35'54		opposition	-11610 Sep 06 j 10:49	24° $\mathring{\text{A}}$ 46'28	-2°53'22
				min. Earth dist.	-11610 Sep 06 j 21:18	24° $\mathring{\text{A}}$ 45'43	28.91167 AU
conjunction	-11616 Feb 23 j 05:38	10° $\mathring{\text{A}}$ 11'46	-2°43'36	direct	-11610 Nov 24 j 15:50	23° $\mathring{\text{A}}$ 20'52	
minimum elong	-11616 Feb 23 j 05:37	10° $\mathring{\text{A}}$ 11'46	2°44'12	evening set	-11609 Feb 23 j 07:19	25° $\mathring{\text{A}}$ 17'53	
max. Earth dist.	-11616 Feb 22 j 22:45	10° $\mathring{\text{A}}$ 11'07	30.88245 AU				
morning rise	-11616 Mar 10 j 09:13	10° $\mathring{\text{A}}$ 47'33		conjunction	-11609 Mar 11 j 10:52	25° $\mathring{\text{A}}$ 53'39	-2°41'33
retrograde	-11616 Jun 07 j 12:27	12° $\mathring{\text{A}}$ 43'25		minimum elong	-11609 Mar 11 j 10:52	25° $\mathring{\text{A}}$ 53'39	2°42'12
opposition	-11616 Aug 23 j 20:01	11° $\mathring{\text{A}}$ 19'31	-2°55'14	max. Earth dist.	-11609 Mar 10 j 21:30	25° $\mathring{\text{A}}$ 52'25	30.91272 AU
min. Earth dist.	-11616 Aug 24 j 01:31	11° $\mathring{\text{A}}$ 19'07	28.88702 AU	morning rise	-11609 Mar 27 j 12:25	26° $\mathring{\text{A}}$ 29'16	
direct	-11616 Nov 10 j 13:09	9° $\mathring{\text{A}}$ 54'19		retrograde	-11609 Jun 23 j 17:30	28° $\mathring{\text{A}}$ 24'03	
evening set	-11615 Feb 08 j 15:59	11° $\mathring{\text{A}}$ 50'57		opposition	-11609 Sep 08 j 21:22	27° $\mathring{\text{A}}$ 00'31	-2°52'07
				min. Earth dist.	-11609 Sep 09 j 08:50	26° $\mathring{\text{A}}$ 59'43	28.91909 AU
conjunction	-11615 Feb 24 j 20:30	12° $\mathring{\text{A}}$ 26'48	-2°44'03	direct	-11609 Nov 27 j 03:07	25° $\mathring{\text{A}}$ 34'54	
minimum elong	-11615 Feb 24 j 20:30	12° $\mathring{\text{A}}$ 26'48	2°44'39	evening set	-11608 Feb 25 j 21:23	27° $\mathring{\text{A}}$ 32'00	
max. Earth dist.	-11615 Feb 24 j 13:24	12° $\mathring{\text{A}}$ 26'09	30.88636 AU	max. Earth dist.	-11608 Mar 12 j 11:52	28° $\mathring{\text{A}}$ 06'33	30.92076 AU
morning rise	-11615 Mar 12 j 23:39	13° $\mathring{\text{A}}$ 02'35					
retrograde	-11615 Jun 09 j 22:41	14° $\mathring{\text{A}}$ 58'17		conjunction	-11608 Mar 13 j 00:58	28° $\mathring{\text{A}}$ 07'46	-2°40'17
opposition	-11615 Aug 26 j 06:31	13° $\mathring{\text{A}}$ 34'26	-2°55'35	minimum elong	-11608 Mar 13 j 00:58	28° $\mathring{\text{A}}$ 07'46	2°40'56
min. Earth dist.	-11615 Aug 26 j 13:44	13° $\mathring{\text{A}}$ 33'55	28.89053 AU	morning rise	-11608 Mar 29 j 02:09	28° $\mathring{\text{A}}$ 43'22	
direct	-11615 Nov 13 j 01:57	12° $\mathring{\text{A}}$ 09'10			-11608 May 08 j 08:52	0° $\mathring{\text{B}}$	
evening set	-11614 Feb 11 j 06:54	14° $\mathring{\text{A}}$ 05'52		retrograde	-11608 Jun 25 j 05:07	0° $\mathring{\text{B}}$ 38'01	
					-11608 Aug 13 j 02:42	30° $\mathring{\text{R}}$ $\mathring{\text{A}}$	
conjunction	-11614 Feb 27 j 11:10	14° $\mathring{\text{A}}$ 41'43	-2°44'15	opposition	-11608 Sep 10 j 07:53	29° $\mathring{\text{A}}$ 14'36	-2°50'38
minimum elong	-11614 Feb 27 j 11:09	14° $\mathring{\text{A}}$ 41'43	2°44'52	min. Earth dist.	-11608 Sep 10 j 19:54	29° $\mathring{\text{A}}$ 13'45	28.92745 AU
max. Earth dist.	-11614 Feb 27 j 01:55	14° $\mathring{\text{A}}$ 40'51	30.88970 AU	direct	-11608 Nov 28 j 16:51	27° $\mathring{\text{A}}$ 48'59	
morning rise	-11614 Mar 15 j 14:11	15° $\mathring{\text{A}}$ 17'28		evening set	-11607 Feb 27 j 11:47	29° $\mathring{\text{A}}$ 46'11	
retrograde	-11614 Jun 12 j 10:54	17° $\mathring{\text{A}}$ 12'59			-11607 Mar 05 j 18:57	0° $\mathring{\text{B}}$	
opposition	-11614 Aug 28 j 16:59	15° $\mathring{\text{A}}$ 49'12	-2°55'40				
min. Earth dist.	-11614 Aug 29 j 00:26	15° $\mathring{\text{A}}$ 48'40	28.89373 AU	conjunction	-11607 Mar 15 j 15:03	0° $\mathring{\text{B}}$ 21'56	-2°38'45
direct	-11614 Nov 15 j 14:38	14° $\mathring{\text{A}}$ 23'51		minimum elong	-11607 Mar 15 j 15:04	0° $\mathring{\text{B}}$ 21'56	2°39'24
evening set	-11613 Feb 13 j 21:27	16° $\mathring{\text{A}}$ 20'36		max. Earth dist.	-11607 Mar 14 j 23:59	0° $\mathring{\text{B}}$ 20'32	30.92956 AU
				morning rise	-11607 Mar 31 j 16:06	0° $\mathring{\text{B}}$ 57'30	
conjunction	-11613 Mar 02 j 01:40	16° $\mathring{\text{A}}$ 56'27	-2°44'12	retrograde	-11607 Jun 27 j 18:34	2° $\mathring{\text{B}}$ 52'03	
minimum elong	-11613 Mar 02 j 01:40	16° $\mathring{\text{A}}$ 56'27	2°44'50	opposition	-11607 Sep 12 j 18:19	1° $\mathring{\text{B}}$ 28'45	-2°48'52
max. Earth dist.	-11613 Mar 01 j 16:08	16° $\mathring{\text{A}}$ 55'33	30.89278 AU	min. Earth dist.	-11607 Sep 13 j 06:56	1° $\mathring{\text{B}}$ 27'51	28.93647 AU
morning rise	-11613 Mar 18 j 04:15	17° $\mathring{\text{A}}$ 32'09		direct	-11607 Dec 01 j 05:34	0° $\mathring{\text{B}}$ 03'09	
retrograde	-11613 Jun 14 j 21:05	19° $\mathring{\text{A}}$ 27'32		evening set	-11606 Mar 02 j 02:03	2° $\mathring{\text{B}}$ 00'26	
opposition	-11613 Aug 31 j 03:34	18° $\mathring{\text{A}}$ 03'46	-2°55'29				
min. Earth dist.	-11613 Aug 31 j 12:46	18° $\mathring{\text{A}}$ 03'07	28.89697 AU	conjunction	-11606 Mar 18 j 05:19	2° $\mathring{\text{B}}$ 36'11	-2°36'59
direct	-11613 Nov 18 j 02:01	16° $\mathring{\text{A}}$ 38'21		minimum elong	-11606 Mar 18 j 05:19	2° $\mathring{\text{B}}$ 36'11	2°37'39
evening set	-11612 Feb 16 j 12:00	18° $\mathring{\text{A}}$ 35'09		max. Earth dist.	-11606 Mar 17 j 14:26	2° $\mathring{\text{B}}$ 34'48	30.93860 AU
				morning rise	-11606 Apr 03 j 05:53	3° $\mathring{\text{B}}$ 11'44	
conjunction	-11612 Mar 03 j 16:03	19° $\mathring{\text{A}}$ 10'58	-2°43'55	retrograde	-11606 Jun 30 j 05:09	5° $\mathring{\text{B}}$ 06'11	
minimum elong	-11612 Mar 03 j 16:02	19° $\mathring{\text{A}}$ 10'58	2°44'33	opposition	-11606 Sep 15 j 05:05	3° $\mathring{\text{B}}$ 42'59	-2°46'51
max. Earth dist.	-11612 Mar 03 j 05:13	19° $\mathring{\text{A}}$ 09'58	30.89633 AU	min. Earth dist.	-11606 Sep 15 j 19:12	3° $\mathring{\text{B}}$ 41'59	28.94532 AU
morning rise	-11612 Mar 19 j 18:27	19° $\mathring{\text{A}}$ 46'40		direct	-11606 Dec 03 j 18:33	2° $\mathring{\text{B}}$ 17'24	
retrograde	-11612 Jun 16 j 08:44	21° $\mathring{\text{A}}$ 41'52		evening set	-11605 Mar 04 j 16:16	4° $\mathring{\text{B}}$ 14'46	
opposition	-11612 Sep 01 j 13:50	20° $\mathring{\text{A}}$ 18'09	-2°55'02				
min. Earth dist.	-11612 Sep 01 j 22:49	20° $\mathring{\text{A}}$ 17'30	28.90084 AU	conjunction	-11605 Mar 20 j 19:12	4° $\mathring{\text{B}}$ 50'31	-2°34'59
direct	-11612 Nov 19 j 14:16	18° $\mathring{\text{A}}$ 52'39		minimum elong	-11605 Mar 20 j 19:12	4° $\mathring{\text{B}}$ 50'31	2°35'38
evening set	-11611 Feb 18 j 02:30	20° $\mathring{\text{A}}$ 49'31		max. Earth dist.	-11605 Mar 20 j 02:21	4° $\mathring{\text{B}}$ 48'56	30.94728 AU
				morning rise	-11605 Apr 05 j 19:38	5° $\mathring{\text{B}}$ 26'02	
conjunction	-11611 Mar 06 j 06:26	21° $\mathring{\text{A}}$ 25'19	-2°43'22	retrograde	-11605 Jul 02 j 17:55	7° $\mathring{\text{B}}$ 20'22	
minimum elong	-11611 Mar 06 j 06:26	21° $\mathring{\text{A}}$ 25'19	2°44'01	opposition	-11605 Sep 17 j 15:45	5° $\mathring{\text{B}}$ 57'17	-2°44'35
max. Earth dist.	-11611 Mar 05 j 18:44	21° $\mathring{\text{A}}$ 24'14	30.90058 AU	min. Earth dist.	-11605 Sep 18 j 06:01	5° $\mathring{\text{B}}$ 56'16	28.95361 AU
morning rise	-11611 Mar 22 j 08:31	22° $\mathring{\text{A}}$ 00'59		direct	-11605 Dec 06 j 07:16	4° $\mathring{\text{B}}$ 31'42	
retrograde	-11611 Jun 18 j 18:27	23° $\mathring{\text{A}}$ 56'02		evening set	-11604 Mar 06 j 06:25	6° $\mathring{\text{B}}$ 29'08	
opposition	-11611 Sep 04 j 00:24	22° $\mathring{\text{A}}$ 32'22	-2°54'20				
min. Earth dist.	-11611 Sep 04 j 10:58	22° $\mathring{\text{A}}$ 31'37	28.90567 AU	conjunction	-11604 Mar 22 j 09:19	7° $\mathring{\text{B}}$ 04'52	-2°32'45
direct	-11611 Nov 22 j 02:06	21° $\mathring{\text{A}}$ 06'48		minimum elong	-11604 Mar 22 j 09:19	7° $\mathring{\text{B}}$ 04'52	2°33'25

Attention, astronomical year style is used: The year -11604 in astronomical counting style is the year 11605 BCE in historical counting style.

max. Earth dist.	-11604 Mar 21 j 16:10	7°303'16	30.95503 AU	max. Earth dist.	-11597 Apr 07 j 10:04	22°339'43	30.99565 AU
morning rise	-11604 Apr 07 j 09:19	7°340'23					
retrograde	-11604 Jul 04 j 04:36	9°334'35		conjunction	-11597 Apr 08 j 07:58	22°341'46	-2°11'02
opposition	-11604 Sep 19 j 02:28	8°311'35	-2°42'05	minimum elong	-11597 Apr 08 j 07:59	22°341'46	2°11'39
min. Earth dist.	-11604 Sep 19 j 18:42	8°310'26	28.96082 AU	morning rise	-11597 Apr 24 j 05:54	23°317'06	
direct	-11604 Dec 07 j 18:53	6°345'59		retrograde	-11597 Jul 20 j 07:27	25°310'21	
evening set	-11603 Mar 08 j 20:38	8°343'28		opposition	-11597 Oct 05 j 05:40	23°347'39	-2°18'05
				min. Earth dist.	-11597 Oct 06 j 02:01	23°346'13	29.00148 AU
conjunction	-11603 Mar 24 j 23:18	9°319'11	-2°30'18	direct	-11597 Dec 24 j 12:25	22°321'48	
minimum elong	-11603 Mar 24 j 23:18	9°319'12	2°30'56	evening set	-11596 Mar 24 j 19:40	24°319'21	
max. Earth dist.	-11603 Mar 24 j 04:28	9°317'26	30.96180 AU				
morning rise	-11603 Apr 09 j 23:08	9°354'41		conjunction	-11596 Apr 09 j 20:54	24°354'58	-2°07'07
retrograde	-11603 Jul 06 j 16:11	11°348'45		minimum elong	-11596 Apr 09 j 20:55	24°354'58	2°07'45
opposition	-11603 Sep 21 j 13:12	10°325'49	-2°39'20	max. Earth dist.	-11596 Apr 08 j 21:41	24°352'49	31.00414 AU
min. Earth dist.	-11603 Sep 22 j 05:22	10°324'40	28.96691 AU	morning rise	-11596 Apr 25 j 18:43	25°330'18	
direct	-11603 Dec 10 j 07:33	9°300'11		retrograde	-11596 Jul 21 j 20:06	27°323'25	
evening set	-11602 Mar 11 j 10:39	10°357'42		opposition	-11596 Oct 06 j 16:14	26°300'48	-2°13'48
				min. Earth dist.	-11596 Oct 07 j 12:06	25°359'24	29.01047 AU
conjunction	-11602 Mar 27 j 13:09	11°333'25	-2°27'37	direct	-11596 Dec 26 j 01:35	24°334'57	
minimum elong	-11602 Mar 27 j 13:10	11°333'25	2°28'16	evening set	-11595 Mar 27 j 08:50	26°332'32	
max. Earth dist.	-11602 Mar 26 j 17:24	11°331'34	30.96741 AU	max. Earth dist.	-11595 Apr 11 j 11:18	27°306'02	31.01367 AU
morning rise	-11602 Apr 12 j 12:37	12°308'53					
retrograde	-11602 Jul 09 j 01:24	14°302'48		conjunction	-11595 Apr 12 j 09:59	27°308'09	-2°03'01
opposition	-11602 Sep 24 j 00:01	12°339'55	-2°36'21	minimum elong	-11595 Apr 12 j 10:00	27°308'09	2°03'37
min. Earth dist.	-11602 Sep 24 j 17:58	12°338'39	28.97216 AU	morning rise	-11595 Apr 28 j 07:19	27°343'27	
direct	-11602 Dec 12 j 19:30	11°314'15		retrograde	-11595 Jul 24 j 06:50	29°336'29	
evening set	-11601 Mar 14 j 00:30	13°311'46		opposition	-11595 Oct 09 j 03:10	28°313'56	-2°09'19
max. Earth dist.	-11601 Mar 29 j 06:32	13°345'34	30.97252 AU	min. Earth dist.	-11595 Oct 10 j 00:24	28°312'27	29.02031 AU
				direct	-11595 Dec 28 j 14:02	26°348'08	
conjunction	-11601 Mar 30 j 02:51	13°347'28	-2°24'43	evening set	-11594 Mar 29 j 21:57	28°345'44	
minimum elong	-11601 Mar 30 j 02:52	13°347'28	2°25'21				
morning rise	-11601 Apr 15 j 02:03	14°322'55		conjunction	-11594 Apr 14 j 22:44	29°321'20	-1°58'44
retrograde	-11601 Jul 11 j 11:55	16°316'41		minimum elong	-11594 Apr 14 j 22:45	29°321'20	1°59'20
opposition	-11601 Sep 26 j 10:41	14°353'51	-2°33'08	max. Earth dist.	-11594 Apr 13 j 23:06	29°319'07	31.02391 AU
min. Earth dist.	-11601 Sep 27 j 04:42	14°352'34	28.97697 AU	morning rise	-11594 Apr 30 j 19:52	29°356'37	
direct	-11601 Dec 15 j 08:45	13°328'07			-11594 May 02 j 09:16	0°	
evening set	-11600 Mar 15 j 14:10	15°325'38		retrograde	-11594 Jul 26 j 18:01	1°49'32	
				opposition	-11594 Oct 11 j 14:02	0°27'06	-2°04'38
conjunction	-11600 Mar 31 j 16:17	16°301'20	-2°21'36	min. Earth dist.	-11594 Oct 12 j 10:42	0°25'39	29.03050 AU
minimum elong	-11600 Mar 31 j 16:17	16°301'20	2°22'15		-11594 Oct 27 j 23:40	30°R3	
max. Earth dist.	-11600 Mar 30 j 18:42	15°359'19	30.97736 AU	direct	-11594 Dec 31 j 03:08	29°301'20	
morning rise	-11600 Apr 16 j 15:16	16°336'45			-11593 Mar 03 j 00:14	0°	
retrograde	-11600 Jul 12 j 22:49	18°330'23		evening set	-11593 Apr 01 j 11:01	0°58'56	
opposition	-11600 Sep 27 j 21:24	17°307'34	-2°29'42	max. Earth dist.	-11593 Apr 16 j 11:37	1°32'17	31.03407 AU
min. Earth dist.	-11600 Sep 28 j 16:28	17°306'13	28.98191 AU				
direct	-11600 Dec 16 j 19:51	15°341'47		conjunction	-11593 Apr 17 j 11:35	1°34'32	-1°54'15
evening set	-11599 Mar 18 j 03:42	17°339'19		minimum elong	-11593 Apr 17 j 11:36	1°34'32	1°54'50
max. Earth dist.	-11599 Apr 02 j 08:29	18°313'00	30.98256 AU	morning rise	-11593 May 03 j 08:18	2°09'47	
				retrograde	-11593 Jul 29 j 03:33	4°02'38	
conjunction	-11599 Apr 03 j 05:44	18°314'59	-2°18'17	opposition	-11593 Oct 14 j 01:02	2°40'16	-1°59'45
minimum elong	-11599 Apr 03 j 05:45	18°314'59	2°18'54	min. Earth dist.	-11593 Oct 14 j 23:13	2°38'43	29.04048 AU
morning rise	-11599 Apr 19 j 04:19	18°350'23		direct	-11592 Jan 02 j 14:14	1°14'32	
retrograde	-11599 Jul 15 j 09:15	20°343'52		evening set	-11592 Apr 02 j 23:58	3°12'08	
opposition	-11599 Sep 30 j 08:03	19°321'05	-2°26'02	max. Earth dist.	-11592 Apr 17 j 23:53	3°45'26	31.04378 AU
min. Earth dist.	-11599 Oct 01 j 03:31	19°319'43	28.98729 AU				
direct	-11599 Dec 19 j 10:17	17°355'15		conjunction	-11592 Apr 19 j 00:17	3°47'43	-1°49'37
evening set	-11598 Mar 20 j 17:16	19°352'48		minimum elong	-11592 Apr 19 j 00:18	3°47'43	1°50'11
				morning rise	-11592 May 04 j 20:44	4°22'57	
conjunction	-11598 Apr 05 j 18:55	20°328'27	-2°14'46	retrograde	-11592 Jul 30 j 14:00	6°15'42	
minimum elong	-11598 Apr 05 j 18:56	20°328'27	2°15'23	opposition	-11592 Oct 15 j 12:04	4°53'24	-1°54'43
max. Earth dist.	-11598 Apr 04 j 20:11	20°326'20	30.98850 AU	min. Earth dist.	-11592 Oct 16 j 10:14	4°51'51	29.04953 AU
morning rise	-11598 Apr 21 j 17:20	21°303'49		direct	-11591 Jan 04 j 03:00	3°27'40	
retrograde	-11598 Jul 17 j 21:46	22°357'11		evening set	-11591 Apr 05 j 13:01	5°25'17	
opposition	-11598 Oct 02 j 18:49	21°334'25	-2°22'10	max. Earth dist.	-11591 Apr 20 j 11:22	5°58'27	31.05235 AU
min. Earth dist.	-11598 Oct 03 j 14:17	21°333'03	28.99380 AU				
direct	-11598 Dec 21 j 23:25	20°308'34		conjunction	-11591 Apr 21 j 12:58	6°00'50	-1°44'49
evening set	-11597 Mar 23 j 06:21	22°306'07		minimum elong	-11591 Apr 21 j 12:59	6°00'50	1°45'21

Attention, astronomical year style is used: The year -11591 in astronomical counting style is the year 11592 BCE in historical counting style.

morning rise	-11591 May 07 j 09:04	6°36'03	opposition	-11585 Oct 31 j 17:54	20°21'06	-1°15'18
retrograde	-11591 Aug 02 j 00:33	8°28'42	min. Earth dist.	-11585 Nov 01 j 17:44	20°19'27	29.09719 AU
opposition	-11591 Oct 17 j 23:10	7°06'28	-1°49'30	direct	-11584 Jan 20 j 21:21	18°55'21
min. Earth dist.	-11591 Oct 18 j 22:20	7°04'51	29.05758 AU	evening set	-11584 Apr 21 j 03:37	20°52'41
direct	-11590 Jan 06 j 13:56	5°40'44		max. Earth dist.	-11584 May 05 j 22:53	21°25'35 31.10077 AU
evening set	-11590 Apr 08 j 01:51	7°38'19				
max. Earth dist.	-11590 Apr 23 j 00:18	8°11'28	31.05994 AU	conjunction	-11584 May 07 j 01:18	21°28'04 -1°07'31
				minimum elong	-11584 May 07 j 01:19	21°28'04 1°07'58
conjunction	-11590 Apr 24 j 01:37	8°13'50	-1°39'52	morning rise	-11584 May 22 j 18:47	22°03'05
minimum elong	-11590 Apr 24 j 01:38	8°13'51	1°40'25	retrograde	-11584 Aug 17 j 01:52	23°55'09
morning rise	-11590 May 09 j 21:18	8°49'02		opposition	-11584 Nov 02 j 05:11	22°33'04 -1°09'11
retrograde	-11590 Aug 04 j 10:17	10°41'35		min. Earth dist.	-11584 Nov 03 j 05:46	22°31'22 29.10626 AU
opposition	-11590 Oct 20 j 10:22	9°19'22	-1°44'08	direct	-11583 Jan 22 j 08:35	21°07'22
min. Earth dist.	-11590 Oct 21 j 09:58	9°17'44	29.06451 AU	evening set	-11583 Apr 23 j 15:32	23°04'40
direct	-11589 Jan 09 j 03:59	7°53'38		max. Earth dist.	-11583 May 08 j 10:45	23°37'36 31.11054 AU
evening set	-11589 Apr 10 j 14:30	9°51'10				
max. Earth dist.	-11589 Apr 25 j 11:00	10°24'10	31.06657 AU	conjunction	-11583 May 09 j 12:48	23°40'02 -1°01'45
				minimum elong	-11583 May 09 j 12:48	23°40'02 1°02'09
conjunction	-11589 Apr 26 j 13:50	10°26'41	-1°34'47	morning rise	-11583 May 25 j 05:54	24°15'01
minimum elong	-11589 Apr 26 j 13:51	10°26'41	1°35'18	retrograde	-11583 Aug 19 j 11:54	26°07'03
morning rise	-11589 May 12 j 09:18	11°01'51		opposition	-11583 Nov 04 j 16:26	24°45'03 -1°02'57
retrograde	-11589 Aug 06 j 22:04	12°54'18		min. Earth dist.	-11583 Nov 05 j 16:16	24°43'24 29.11633 AU
opposition	-11589 Oct 22 j 21:26	11°32'06	-1°38'38	direct	-11582 Jan 24 j 20:57	23°19'25
min. Earth dist.	-11589 Oct 23 j 21:09	11°30'27	29.07079 AU	evening set	-11582 Apr 26 j 03:27	25°16'43
direct	-11588 Jan 11 j 16:17	10°06'20		max. Earth dist.	-11582 May 10 j 21:52	25°49'35 31.12110 AU
evening set	-11588 Apr 12 j 02:58	12°03'50				
max. Earth dist.	-11588 Apr 27 j 00:04	12°36'53	31.07265 AU	conjunction	-11582 May 12 j 00:14	25°52'03 -0°55'53
				minimum elong	-11582 May 12 j 00:14	25°52'03 0°56'17
conjunction	-11588 Apr 28 j 02:10	12°39'19	-1°29'34	morning rise	-11582 May 27 j 16:56	26°27'01
minimum elong	-11588 Apr 28 j 02:11	12°39'19	1°30'05	retrograde	-11582 Aug 21 j 22:23	28°19'02
morning rise	-11588 May 13 j 21:08	13°14'27		opposition	-11582 Nov 07 j 03:51	26°57'06 -0°56'38
	-11588 Jul 19 j 14:02	15°		min. Earth dist.	-11582 Nov 08 j 03:59	26°55'26 29.12719 AU
retrograde	-11588 Aug 08 j 07:28	15°06'49		direct	-11581 Jan 27 j 07:14	25°31'33
	-11588 Aug 28 j 07:55	15°		evening set	-11581 Apr 28 j 15:04	27°28'50
opposition	-11588 Oct 24 j 08:28	13°44'37	-1°32'59	max. Earth dist.	-11581 May 13 j 10:09	28°01'45 31.13208 AU
min. Earth dist.	-11588 Oct 25 j 09:14	13°42'54	29.07661 AU			
direct	-11587 Jan 13 j 05:14	12°18'51		conjunction	-11581 May 14 j 11:32	28°04'08 -0°49'56
evening set	-11587 Apr 14 j 15:29	14°16'18		minimum elong	-11581 May 14 j 11:33	28°04'08 0°50'17
max. Earth dist.	-11587 Apr 29 j 10:52	14°49'12	31.07863 AU	morning rise	-11581 May 30 j 03:45	28°39'05
					-11581 Jul 12 j 12:36	0°
conjunction	-11587 Apr 30 j 14:10	14°51'45	-1°24'13	retrograde	-11581 Aug 24 j 07:39	0°31'06
minimum elong	-11587 Apr 30 j 14:11	14°51'45	1°24'42		-11581 Oct 07 j 14:25	30°
	-11587 May 04 j 06:24	15°		opposition	-11581 Nov 09 j 15:20	29°09'14 -0°50'14
morning rise	-11587 May 16 j 08:56	15°26'52		min. Earth dist.	-11581 Nov 10 j 15:33	29°07'34 29.13791 AU
retrograde	-11587 Aug 10 j 19:41	17°19'07		direct	-11580 Jan 29 j 20:11	27°43'46
opposition	-11587 Oct 26 j 19:33	15°56'56	-1°27'13	evening set	-11580 Apr 30 j 02:58	29°41'01
min. Earth dist.	-11587 Oct 27 j 19:37	15°55'16	29.08267 AU		-11580 May 08 j 16:34	0°
	-11587 Dec 03 j 03:33	15°				
direct	-11586 Jan 15 j 18:56	14°31'09		conjunction	-11580 May 15 j 22:49	0°16'18 -0°43'54
	-11586 Feb 27 j 12:41	15°		minimum elong	-11580 May 15 j 22:50	0°16'18 0°44'16
evening set	-11586 Apr 17 j 03:34	16°28'34		max. Earth dist.	-11580 May 14 j 20:16	0°13'49 31.14260 AU
max. Earth dist.	-11586 May 01 j 23:41	17°01'32	31.08496 AU	morning rise	-11580 May 31 j 14:43	0°51'13
				retrograde	-11580 Aug 25 j 19:23	2°43'14
conjunction	-11586 May 03 j 02:01	17°03'59	-1°18'46	opposition	-11580 Nov 11 j 02:43	1°21'25 -0°43'46
minimum elong	-11586 May 03 j 02:02	17°03'59	1°19'15	min. Earth dist.	-11580 Nov 12 j 02:47	1°19'46 29.14807 AU
morning rise	-11586 May 18 j 20:14	17°39'04			-11579 Jan 15 j 12:07	30°
retrograde	-11586 Aug 13 j 05:55	19°31'15		direct	-11579 Jan 31 j 06:54	29°56'01
opposition	-11586 Oct 29 j 06:52	18°09'05	-1°21'19		-11579 Feb 16 j 01:51	0°
min. Earth dist.	-11586 Oct 30 j 07:52	18°07'21	29.08937 AU	evening set	-11579 May 02 j 14:42	1°53'15
direct	-11585 Jan 18 j 08:03	16°43'18		max. Earth dist.	-11579 May 17 j 08:36	2°26'06 31.15224 AU
evening set	-11585 Apr 19 j 15:42	18°40'40				
max. Earth dist.	-11585 May 04 j 10:55	19°13'34	31.09230 AU	conjunction	-11579 May 18 j 10:14	2°28'30 -0°37'49
				minimum elong	-11579 May 18 j 10:15	2°28'30 0°38'08
conjunction	-11585 May 05 j 13:41	19°16'04	-1°13'12	morning rise	-11579 Jun 03 j 01:30	3°03'23
minimum elong	-11585 May 05 j 13:41	19°16'04	1°13'39	retrograde	-11579 Aug 28 j 05:07	4°55'24
morning rise	-11585 May 21 j 07:38	19°51'07		opposition	-11579 Nov 13 j 14:31	3°33'37 -0°37'13
retrograde	-11585 Aug 15 j 16:33	21°43'14		min. Earth dist.	-11579 Nov 14 j 15:27	3°31'54 29.15705 AU

Attention, astronomical year style is used: The year -11578 in astronomical counting style is the year 11579 BCE in historical counting style.

direct	-11578 Feb 02 j 19:09	2° ✕ 08'16		direct	-11572 Feb 17 j 00:53	15° ✕ 18'27	
evening set	-11578 May 05 j 02:24	4° ✕ 05'27		evening set	-11572 May 17 j 21:40	17° ✕ 15'10	
conjunction	-11578 May 20 j 21:16	4° ✕ 40'39	-0°31'41	conjunction	-11572 Jun 02 j 13:31	17° ✕ 50'07	0°05'46
minimum elong	-11578 May 20 j 21:17	4° ✕ 40'39	0°32'00	minimum elong	-11572 Jun 02 j 13:31	17° ✕ 50'07	0°05'35
max. Earth dist.	-11578 May 19 j 18:31	4° ✕ 38'09	31.16068 AU	behind sun begin	-11572 Jun 02 j 07:18	17° ✕ 49'34	
morning rise	-11578 Jun 05 j 12:14	5° ✕ 15'31		behind sun end	-11572 Jun 02 j 19:43	17° ✕ 50'40	
retrograde	-11578 Aug 30 j 17:38	7° ✕ 07'30		max. Earth dist.	-11572 Jun 01 j 13:17	17° ✕ 47'51	31.19541 AU
opposition	-11578 Nov 16 j 02:11	5° ✕ 45'45	-0°30'38	morning rise	-11572 Jun 18 j 01:25	18° ✕ 24'45	
min. Earth dist.	-11578 Nov 17 j 02:23	5° ✕ 44'05	29.16482 AU	retrograde	-11572 Sep 12 j 04:24	20° ✕ 16'39	
direct	-11577 Feb 05 j 08:55	4° ✕ 20'25		opposition	-11572 Nov 29 j 00:40	18° ✕ 54'47	0°09'20
evening set	-11577 May 07 j 13:57	6° ✕ 17'33		min. Earth dist.	-11572 Nov 30 j 00:03	18° ✕ 53'11	29.19905 AU
max. Earth dist.	-11577 May 22 j 06:29	6° ✕ 50'17	31.16780 AU	direct	-11571 Feb 18 j 13:39	17° ✕ 29'33	
conjunction	-11577 May 23 j 08:28	6° ✕ 52'43	-0°25'30	evening set	-11571 May 20 j 08:37	19° ✕ 26'12	
minimum elong	-11577 May 23 j 08:29	6° ✕ 52'43	0°25'47	conjunction	-11571 Jun 04 j 23:44	20° ✕ 01'07	0°11'58
morning rise	-11577 Jun 07 j 22:48	7° ✕ 27'32		minimum elong	-11571 Jun 04 j 23:44	20° ✕ 01'07	0°11'50
retrograde	-11577 Sep 02 j 04:03	9° ✕ 19'31		behind sun begin	-11571 Jun 04 j 19:12	20° ✕ 00'43	
opposition	-11577 Nov 18 j 13:52	7° ✕ 57'45	-0°24'01	behind sun end	-11571 Jun 05 j 04:16	20° ✕ 01'31	
min. Earth dist.	-11577 Nov 19 j 15:13	7° ✕ 56'00	29.17136 AU	max. Earth dist.	-11571 Jun 03 j 23:05	19° ✕ 58'48	31.20238 AU
direct	-11576 Feb 07 j 21:56	6° ✕ 32'26		morning rise	-11571 Jun 20 j 11:16	20° ✕ 35'43	
evening set	-11576 May 09 j 01:27	8° ✕ 29'30		retrograde	-11571 Sep 14 j 15:43	22° ✕ 27'39	
conjunction	-11576 May 24 j 19:23	9° ✕ 04'37	-0°19'17	opposition	-11571 Dec 01 j 12:35	21° ✕ 05'47	0°16'00
minimum elong	-11576 May 24 j 19:23	9° ✕ 04'37	0°19'34	min. Earth dist.	-11571 Dec 02 j 10:55	21° ✕ 04'16	29.20654 AU
max. Earth dist.	-11576 May 23 j 16:50	9° ✕ 02'08	31.17390 AU	direct	-11570 Feb 20 j 23:43	19° ✕ 40'38	
morning rise	-11576 Jun 09 j 09:24	9° ✕ 39'24		evening set	-11570 May 22 j 19:11	21° ✕ 37'14	
retrograde	-11576 Sep 03 j 14:46	11° ✕ 31'20		max. Earth dist.	-11570 Jun 06 j 10:57	22° ✕ 09'58	31.21023 AU
opposition	-11576 Nov 20 j 01:31	10° ✕ 09'34	-0°17'22	conjunction	-11570 Jun 07 j 09:53	22° ✕ 12'07	0°18'11
min. Earth dist.	-11576 Nov 21 j 01:50	10° ✕ 07'54	29.17691 AU	minimum elong	-11570 Jun 07 j 09:53	22° ✕ 12'06	0°18'02
direct	-11575 Feb 09 j 11:39	8° ✕ 44'15		morning rise	-11570 Jun 22 j 20:45	22° ✕ 46'40	
evening set	-11575 May 11 j 12:43	10° ✕ 41'14		retrograde	-11570 Sep 17 j 01:10	24° ✕ 38'41	
max. Earth dist.	-11575 May 26 j 03:56	11° ✕ 13'52	31.17908 AU	opposition	-11570 Dec 04 j 00:38	23° ✕ 16'51	0°22'38
conjunction	-11575 May 27 j 06:11	11° ✕ 16'19	-0°13'04	min. Earth dist.	-11570 Dec 04 j 23:11	23° ✕ 15'18	29.21463 AU
minimum elong	-11575 May 27 j 06:10	11° ✕ 16'19	0°13'18	direct	-11569 Feb 23 j 11:33	21° ✕ 51'47	
behind sun begin	-11575 May 27 j 02:24	11° ✕ 15'59		evening set	-11569 May 25 j 05:58	23° ✕ 48'20	
behind sun end	-11575 May 27 j 09:56	11° ✕ 16'39		conjunction	-11569 Jun 09 j 19:55	24° ✕ 23'10	0°24'22
morning rise	-11575 Jun 11 j 19:36	11° ✕ 51'03		minimum elong	-11569 Jun 09 j 19:55	24° ✕ 23'10	0°24'16
retrograde	-11575 Sep 06 j 00:33	13° ✕ 42'58		max. Earth dist.	-11569 Jun 08 j 20:35	24° ✕ 20'59	31.21854 AU
opposition	-11575 Nov 22 j 13:22	12° ✕ 21'10	-0°10'41	morning rise	-11569 Jun 25 j 06:27	24° ✕ 57'42	
min. Earth dist.	-11575 Nov 23 j 14:24	12° ✕ 19'27	29.18195 AU	retrograde	-11569 Sep 19 j 13:30	26° ✕ 49'46	
direct	-11574 Feb 12 j 00:07	10° ✕ 55'52		opposition	-11569 Dec 06 j 12:27	25° ✕ 27'59	0°29'14
evening set	-11574 May 13 j 23:52	12° ✕ 52'44		min. Earth dist.	-11569 Dec 07 j 09:46	25° ✕ 26'32	29.22295 AU
conjunction	-11574 May 29 j 16:46	13° ✕ 27'47	-0°06'51	direct	-11568 Feb 25 j 23:36	24° ✕ 03'01	
minimum elong	-11574 May 29 j 16:47	13° ✕ 27'47	0°07'05	evening set	-11568 May 26 j 16:37	25° ✕ 59'33	
behind sun begin	-11574 May 29 j 10:48	13° ✕ 27'15		max. Earth dist.	-11568 Jun 10 j 07:58	26° ✕ 32'16	31.22659 AU
behind sun end	-11574 May 29 j 22:45	13° ✕ 28'19		conjunction	-11568 Jun 11 j 06:06	26° ✕ 34'20	0°30'31
max. Earth dist.	-11574 May 28 j 15:08	13° ✕ 25'23	31.18414 AU	minimum elong	-11568 Jun 11 j 06:06	26° ✕ 34'20	0°30'26
morning rise	-11574 Jun 14 j 05:45	14° ✕ 02'29		morning rise	-11568 Jun 26 j 15:57	27° ✕ 08'50	
retrograde	-11574 Sep 08 j 10:25	15° ✕ 54'22		retrograde	-11568 Sep 21 j 00:21	29° ✕ 01'00	
opposition	-11574 Nov 25 j 01:08	14° ✕ 32'32	-0°04'01	opposition	-11568 Dec 08 j 00:42	27° ✕ 39'13	0°35'48
min. Earth dist.	-11574 Nov 26 j 01:11	14° ✕ 30'53	29.18700 AU	min. Earth dist.	-11568 Dec 08 j 22:44	27° ✕ 37'43	29.23074 AU
direct	-11573 Feb 14 j 13:54	13° ✕ 07'15		direct	-11567 Feb 27 j 11:26	26° ✕ 14'21	
evening set	-11573 May 16 j 10:48	15° ✕ 04'02		evening set	-11567 May 29 j 03:17	28° ✕ 10'51	
max. Earth dist.	-11573 May 31 j 01:27	15° ✕ 36'38	31.18938 AU	conjunction	-11567 Jun 13 j 16:02	28° ✕ 45'36	0°36'38
conjunction	-11573 Jun 01 j 03:08	15° ✕ 39'02	-0°00'34	minimum elong	-11567 Jun 13 j 16:02	28° ✕ 45'36	0°36'36
minimum elong	-11573 Jun 01 j 03:07	15° ✕ 39'02	0°00'45	max. Earth dist.	-11567 Jun 12 j 17:50	28° ✕ 43'31	31.23395 AU
behind sun begin	-11573 May 31 j 20:41	15° ✕ 38'27		morning rise	-11567 Jun 29 j 01:26	29° ✕ 20'03	
behind sun end	-11573 Jun 01 j 09:34	15° ✕ 39'36		retrograde	-11567 Jul 18 j 03:28	0° °	
morning rise	-11573 Jun 16 j 15:39	16° ✕ 13'42		retrograde	-11567 Sep 23 j 11:37	1° ° 12'18	
asc. node	-11573 Jul 03 j 20:40	16° ✕ 49'50		opposition	-11567 Dec 04 j 17:45	30° ✕	
retrograde	-11573 Sep 10 j 20:06	18° ✕ 05'35		opposition	-11567 Dec 10 j 12:55	29° ✕ 50'33	0°42'18
opposition	-11573 Nov 27 j 12:55	16° ✕ 43'43	0°02'40	min. Earth dist.	-11567 Dec 11 j 09:36	29° ✕ 49'08	29.23753 AU
min. Earth dist.	-11573 Nov 28 j 12:51	16° ✕ 42'05	29.19266 AU	direct	-11566 Mar 02 j 00:29	28° ✕ 25'46	

Attention, astronomical year style is used: The year -11566 in astronomical counting style is the year 11567 BCE in historical counting style.

	-11566 May 21 j 05:36	0°♊		retrograde	-11560 Oct 08 j 10:36	16°♊30'07	
evening set	-11566 May 31 j 13:57	0°♊22'13		opposition	-11560 Dec 26 j 03:23	15°♊08'04	1°25'33
max. Earth dist.	-11566 Jun 15 j 04:13	0°♊54'52	31.24003 AU	min. Earth dist.	-11560 Dec 26 j 20:21	15°♊06'55	29.25659 AU
				direct	-11559 Mar 17 j 13:21	13°♊43'31	
conjunction	-11566 Jun 16 j 02:06	0°♊56'55	0°42'42	evening set	-11559 Jun 15 j 13:25	15°♊39'22	
minimum elong	-11566 Jun 16 j 02:06	0°♊56'55	0°42'40				
morning rise	-11566 Jul 01 j 10:55	1°♊31'21		conjunction	-11559 Jun 30 j 21:16	16°♊13'45	1°22'49
retrograde	-11566 Sep 25 j 22:28	3°♊23'40		minimum elong	-11559 Jun 30 j 21:15	16°♊13'45	1°22'58
opposition	-11566 Dec 13 j 01:18	2°♊01'55	0°48'45	max. Earth dist.	-11559 Jun 30 j 04:13	16°♊12'08	31.25718 AU
min. Earth dist.	-11566 Dec 13 j 22:36	2°♊00'28	29.24310 AU	morning rise	-11559 Jul 16 j 02:25	16°♊47'55	
direct	-11565 Mar 04 j 12:48	0°♊37'12		retrograde	-11559 Oct 10 j 21:00	18°♊40'45	
evening set	-11565 Jun 03 j 00:26	2°♊33'35		opposition	-11559 Dec 28 j 15:59	17°♊18'39	1°31'17
				min. Earth dist.	-11559 Dec 29 j 08:56	17°♊17'30	29.25967 AU
conjunction	-11565 Jun 18 j 12:01	3°♊08'15	0°48'42	direct	-11558 Mar 19 j 23:59	15°♊54'10	
minimum elong	-11565 Jun 18 j 12:01	3°♊08'14	0°48'42	evening set	-11558 Jun 17 j 23:18	17°♊49'57	
max. Earth dist.	-11565 Jun 17 j 14:44	3°♊06'15	31.24485 AU				
morning rise	-11565 Jul 03 j 20:19	3°♊42'38		conjunction	-11558 Jul 03 j 06:29	18°♊24'16	1°28'07
retrograde	-11565 Sep 28 j 08:56	5°♊35'01		minimum elong	-11558 Jul 03 j 06:28	18°♊24'16	1°28'17
opposition	-11565 Dec 15 j 13:35	4°♊13'15	0°55'08	max. Earth dist.	-11558 Jul 02 j 14:08	18°♊22'44	31.26076 AU
min. Earth dist.	-11565 Dec 16 j 10:00	4°♊11'52	29.24711 AU	morning rise	-11558 Jul 18 j 11:14	18°♊58'24	
direct	-11564 Mar 06 j 02:54	2°♊48'35		retrograde	-11558 Oct 13 j 08:18	20°♊51'20	
evening set	-11564 Jun 04 j 10:59	4°♊44'54		opposition	-11558 Dec 31 j 04:19	19°♊29'14	1°36'54
				min. Earth dist.	-11558 Dec 31 j 19:14	19°♊28'13	29.26369 AU
conjunction	-11564 Jun 19 j 21:51	5°♊19'31	0°54'37	direct	-11557 Mar 22 j 12:21	18°♊04'49	
minimum elong	-11564 Jun 19 j 21:51	5°♊19'31	0°54'38	evening set	-11557 Jun 20 j 09:01	20°♊00'32	
max. Earth dist.	-11564 Jun 19 j 00:15	5°♊17'29	31.24811 AU				
morning rise	-11564 Jul 05 j 05:40	5°♊53'52		conjunction	-11557 Jul 05 j 15:38	20°♊34'50	1°33'18
retrograde	-11564 Sep 29 j 18:57	7°♊46'19		minimum elong	-11557 Jul 05 j 15:37	20°♊34'49	1°33'31
opposition	-11564 Dec 17 j 01:54	6°♊24'31	1°01'25	max. Earth dist.	-11557 Jul 05 j 00:07	20°♊33'22	31.26500 AU
min. Earth dist.	-11564 Dec 17 j 22:20	6°♊23'08	29.24987 AU	morning rise	-11557 Jul 20 j 19:55	21°♊08'56	
direct	-11563 Mar 08 j 14:05	4°♊59'53		retrograde	-11557 Oct 15 j 19:58	23°♊01'59	
evening set	-11563 Jun 06 j 21:19	6°♊56'06		opposition	-11556 Jan 02 j 16:54	21°♊39'51	1°42'22
max. Earth dist.	-11563 Jun 21 j 11:31	7°♊28'47	31.25030 AU	min. Earth dist.	-11556 Jan 03 j 07:50	21°♊38'51	29.26825 AU
				direct	-11556 Mar 24 j 00:15	20°♊15'33	
conjunction	-11563 Jun 22 j 07:42	7°♊30'41	1°00'27	evening set	-11556 Jun 21 j 18:44	22°♊11'12	
minimum elong	-11563 Jun 22 j 07:41	7°♊30'41	1°00'31	max. Earth dist.	-11556 Jul 06 j 10:36	22°♊44'07	31.26956 AU
morning rise	-11563 Jul 07 j 14:52	8°♊05'00					
retrograde	-11563 Oct 02 j 03:09	9°♊57'30		conjunction	-11556 Jul 07 j 00:48	22°♊45'27	1°38'21
opposition	-11563 Dec 19 j 14:22	8°♊35'39	1°07'37	minimum elong	-11556 Jul 07 j 00:47	22°♊45'27	1°38'34
min. Earth dist.	-11563 Dec 20 j 10:17	8°♊34'18	29.25160 AU	morning rise	-11556 Jul 22 j 04:33	23°♊19'31	
direct	-11562 Mar 11 j 03:20	7°♊11'02		retrograde	-11556 Oct 17 j 06:52	25°♊12'42	
evening set	-11562 Jun 09 j 07:31	9°♊07'09		opposition	-11555 Jan 04 j 05:26	23°♊50'34	1°47'41
				min. Earth dist.	-11555 Jan 04 j 19:00	23°♊49'39	29.27269 AU
conjunction	-11562 Jun 24 j 17:07	9°♊41'41	1°06'12	direct	-11555 Mar 26 j 13:46	22°♊26'21	
minimum elong	-11562 Jun 24 j 17:06	9°♊41'41	1°06'16	evening set	-11555 Jun 24 j 04:34	24°♊21'57	
max. Earth dist.	-11562 Jun 23 j 20:32	9°♊39'45	31.25174 AU				
morning rise	-11562 Jul 09 j 23:57	10°♊15'58		conjunction	-11555 Jul 09 j 09:56	24°♊56'10	1°43'16
retrograde	-11562 Oct 04 j 14:12	12°♊08'32		minimum elong	-11555 Jul 09 j 09:55	24°♊56'09	1°43'31
opposition	-11562 Dec 22 j 02:44	10°♊46'37	1°13'42	max. Earth dist.	-11555 Jul 08 j 19:48	24°♊54'50	31.27374 AU
min. Earth dist.	-11562 Dec 22 j 21:35	10°♊45'20	29.25300 AU	morning rise	-11555 Jul 24 j 13:19	25°♊30'12	
direct	-11561 Mar 13 j 13:44	9°♊22'01		retrograde	-11555 Oct 19 j 17:45	27°♊23'31	
evening set	-11561 Jun 11 j 17:32	11°♊18'02		opposition	-11554 Jan 06 j 18:14	26°♊01'22	1°52'52
max. Earth dist.	-11561 Jun 26 j 07:54	11°♊50'44	31.25300 AU	min. Earth dist.	-11554 Jan 07 j 07:25	26°♊00'29	29.27674 AU
				direct	-11554 Mar 29 j 00:26	24°♊37'14	
conjunction	-11561 Jun 27 j 02:41	11°♊52'31	1°11'51	evening set	-11554 Jun 26 j 14:11	26°♊32'47	
minimum elong	-11561 Jun 27 j 02:41	11°♊52'31	1°11'57				
morning rise	-11561 Jul 12 j 08:51	12°♊26'45		conjunction	-11554 Jul 11 j 19:07	27°♊06'56	1°48'02
retrograde	-11561 Oct 06 j 23:00	14°♊19'24		minimum elong	-11554 Jul 11 j 19:06	27°♊06'56	1°48'17
opposition	-11561 Dec 24 j 15:02	12°♊57'25	1°19'41	max. Earth dist.	-11554 Jul 11 j 06:41	27°♊05'46	31.27720 AU
min. Earth dist.	-11561 Dec 25 j 09:52	12°♊56'08	29.25444 AU	morning rise	-11554 Jul 26 j 21:57	27°♊40'57	
direct	-11560 Mar 15 j 02:03	11°♊32'50		retrograde	-11554 Oct 22 j 02:50	29°♊34'24	
evening set	-11560 Jun 13 j 03:38	13°♊28'46		opposition	-11553 Jan 09 j 07:04	28°♊12'14	1°57'52
				min. Earth dist.	-11553 Jan 09 j 19:37	28°♊11'23	29.27966 AU
conjunction	-11560 Jun 28 j 12:00	14°♊03'11	1°17'23	direct	-11553 Mar 31 j 13:53	26°♊48'10	
minimum elong	-11560 Jun 28 j 11:59	14°♊03'11	1°17'30	evening set	-11553 Jun 29 j 00:04	28°♊43'38	
max. Earth dist.	-11560 Jun 27 j 17:13	14°♊01'25	31.25471 AU				
morning rise	-11560 Jul 13 j 17:48	14°♊37'23		conjunction	-11553 Jul 14 j 04:17	29°♊17'46	1°52'38

Attention, astronomical year style is used: The year -11553 in astronomical counting style is the year 11554 BCE in historical counting style.

minimum elong	-11553 Jul 14 j 04:16	29° Υ 17'46	1°52'55	opposition	-11546 Jan 25 j 01:01	13° δ 27'06	2°27'49
max. Earth dist.	-11553 Jul 13 j 15:20	29° Υ 16'32	31.27944 AU	min. Earth dist.	-11546 Jan 25 j 06:58	13° δ 26'42	29.27527 AU
morning rise	-11553 Jul 29 j 06:50	29° Υ 51'45		direct	-11546 Apr 15 j 23:14	12° δ 03'19	
	-11553 Aug 02 j 01:07	0° δ		evening set	-11546 Jul 13 j 17:59	13° δ 58'11	
retrograde	-11553 Oct 24 j 14:33	1° δ 45'19					
opposition	-11552 Jan 11 j 19:41	0° δ 23'07	2°02'43	conjunction	-11546 Jul 28 j 18:55	14° δ 32'03	2°20'00
min. Earth dist.	-11552 Jan 12 j 07:15	0° δ 22'20	29.28138 AU	minimum elong	-11546 Jul 28 j 18:54	14° δ 32'03	2°20'25
	-11552 Jan 26 j 06:59	30° κ Υ		max. Earth dist.	-11546 Jul 28 j 12:35	14° δ 31'27	31.27352 AU
direct	-11552 Apr 02 j 00:34	28° Υ 59'06			-11546 Aug 10 j 03:45	15° δ	
	-11552 Jun 03 j 16:36	0° δ		morning rise	-11546 Aug 12 j 19:09	15° δ 05'52	
evening set	-11552 Jun 30 j 09:44	0° δ 54'30		retrograde	-11546 Nov 08 j 19:49	17° δ 00'20	
				opposition	-11545 Jan 27 j 13:57	15° δ 37'39	2°31'17
conjunction	-11552 Jul 15 j 13:35	1° δ 28'35	1°57'05	min. Earth dist.	-11545 Jan 27 j 19:02	15° δ 37'19	29.27564 AU
minimum elong	-11552 Jul 15 j 13:33	1° δ 28'35	1°57'22		-11545 Feb 20 j 17:38	15° δ	
max. Earth dist.	-11552 Jul 15 j 02:10	1° δ 27'30	31.28033 AU	direct	-11545 Apr 18 j 09:37	14° δ 13'57	
morning rise	-11552 Jul 30 j 15:33	2° δ 02'32			-11545 Jun 11 j 05:17	15° δ	
retrograde	-11552 Oct 25 j 23:46	3° δ 56'14		evening set	-11545 Jul 16 j 03:08	16° δ 08'45	
opposition	-11551 Jan 13 j 08:40	2° δ 33'58	2°07'22				
min. Earth dist.	-11551 Jan 13 j 20:18	2° δ 33'11	29.28165 AU	conjunction	-11545 Jul 31 j 03:51	16° δ 42'36	2°23'09
direct	-11551 Apr 04 j 12:55	1° δ 10'01		minimum elong	-11545 Jul 31 j 03:50	16° δ 42'36	2°23'36
evening set	-11551 Jul 02 j 19:21	3° δ 05'19		max. Earth dist.	-11545 Jul 30 j 23:40	16° δ 42'12	31.27418 AU
				morning rise	-11545 Aug 15 j 03:40	17° δ 16'25	
conjunction	-11551 Jul 17 j 22:33	3° δ 39'21	2°01'21	retrograde	-11545 Nov 11 j 05:20	19° δ 11'01	
minimum elong	-11551 Jul 17 j 22:32	3° δ 39'21	2°01'41	opposition	-11544 Jan 30 j 02:44	17° δ 48'20	2°34'33
max. Earth dist.	-11551 Jul 17 j 11:04	3° δ 38'16	31.28000 AU	min. Earth dist.	-11544 Jan 30 j 06:44	17° δ 48'03	29.27661 AU
morning rise	-11551 Aug 02 j 00:18	4° δ 13'17		direct	-11544 Apr 19 j 22:59	16° δ 24'43	
retrograde	-11551 Oct 28 j 11:25	6° δ 07'06		evening set	-11544 Jul 17 j 12:25	18° δ 19'28	
opposition	-11550 Jan 15 j 21:33	4° δ 44'46	2°11'51				
min. Earth dist.	-11550 Jan 16 j 07:31	4° δ 44'06	29.28083 AU	conjunction	-11544 Aug 01 j 12:36	18° δ 53'17	2°26'05
direct	-11550 Apr 06 j 23:55	3° δ 20'50		minimum elong	-11544 Aug 01 j 12:35	18° δ 53'17	2°26'33
evening set	-11550 Jul 05 j 04:51	5° δ 16'02		max. Earth dist.	-11544 Aug 01 j 08:27	18° δ 52'54	31.27537 AU
				morning rise	-11544 Aug 16 j 12:24	19° δ 27'06	
conjunction	-11550 Jul 20 j 07:39	5° δ 50'03	2°05'27	retrograde	-11544 Nov 12 j 18:03	21° δ 21'52	
minimum elong	-11550 Jul 20 j 07:38	5° δ 50'03	2°05'48	opposition	-11543 Jan 31 j 15:45	19° δ 59'10	2°37'35
max. Earth dist.	-11550 Jul 19 j 21:32	5° δ 49'05	31.27859 AU	min. Earth dist.	-11543 Jan 31 j 18:15	19° δ 58'59	29.27799 AU
morning rise	-11550 Aug 04 j 08:58	6° δ 23'57		direct	-11543 Apr 22 j 09:39	18° δ 35'39	
retrograde	-11550 Oct 30 j 21:56	8° δ 17'54		evening set	-11543 Jul 19 j 21:27	20° δ 30'20	
opposition	-11549 Jan 18 j 10:25	6° δ 55'28	2°16'09				
min. Earth dist.	-11549 Jan 18 j 20:38	6° δ 54'47	29.27924 AU	conjunction	-11543 Aug 03 j 21:28	21° δ 04'08	2°28'49
direct	-11549 Apr 09 j 10:15	5° δ 31'34		minimum elong	-11543 Aug 03 j 21:27	21° δ 04'08	2°29'19
evening set	-11549 Jul 07 j 14:14	7° δ 26'40		max. Earth dist.	-11543 Aug 03 j 19:16	21° δ 03'56	31.27656 AU
				morning rise	-11543 Aug 18 j 20:56	21° δ 37'57	
conjunction	-11549 Jul 22 j 16:33	8° δ 00'38	2°09'22	retrograde	-11543 Nov 15 j 03:27	23° δ 32'54	
minimum elong	-11549 Jul 22 j 16:32	8° δ 00'38	2°09'45	opposition	-11542 Feb 03 j 04:56	22° δ 10'10	2°40'23
max. Earth dist.	-11549 Jul 22 j 07:12	7° δ 59'45	31.27679 AU	min. Earth dist.	-11542 Feb 03 j 07:13	22° δ 10'01	29.27904 AU
morning rise	-11549 Aug 06 j 17:36	8° δ 34'31		direct	-11542 Apr 24 j 21:32	20° δ 46'46	
retrograde	-11549 Nov 02 j 09:20	10° δ 28'34		evening set	-11542 Jul 22 j 06:47	22° δ 41'22	
opposition	-11548 Jan 20 j 23:10	9° δ 06'04	2°20'14				
min. Earth dist.	-11548 Jan 21 j 07:20	9° δ 05'31	29.27739 AU	conjunction	-11542 Aug 06 j 06:23	23° δ 15'09	2°31'21
direct	-11548 Apr 10 j 22:41	7° δ 42'11		minimum elong	-11542 Aug 06 j 06:22	23° δ 15'09	2°31'50
evening set	-11548 Jul 08 j 23:32	9° δ 37'12		max. Earth dist.	-11542 Aug 06 j 04:22	23° δ 14'58	31.27729 AU
				morning rise	-11542 Aug 21 j 05:49	23° δ 48'57	
conjunction	-11548 Jul 24 j 01:20	10° δ 11'08	2°13'07	retrograde	-11542 Nov 17 j 15:11	25° δ 44'04	
minimum elong	-11548 Jul 24 j 01:19	10° δ 11'08	2°13'30	opposition	-11541 Feb 05 j 17:52	24° δ 21'19	2°42'58
max. Earth dist.	-11548 Jul 23 j 16:48	10° δ 10'20	31.27489 AU	min. Earth dist.	-11541 Feb 05 j 18:30	24° δ 21'16	29.27939 AU
morning rise	-11548 Aug 08 j 02:03	10° δ 45'00		direct	-11541 Apr 27 j 07:54	22° δ 57'59	
retrograde	-11548 Nov 03 j 21:18	12° δ 39'10		evening set	-11541 Jul 24 j 16:03	24° δ 52'31	
opposition	-11547 Jan 22 j 12:08	11° δ 16'36	2°24'08				
min. Earth dist.	-11547 Jan 22 j 20:00	11° δ 16'04	29.27594 AU	conjunction	-11541 Aug 08 j 15:28	25° δ 26'18	2°33'39
direct	-11547 Apr 13 j 10:13	9° δ 52'46		minimum elong	-11541 Aug 08 j 15:27	25° δ 26'18	2°34'10
evening set	-11547 Jul 11 j 08:46	11° δ 47'41		max. Earth dist.	-11541 Aug 08 j 14:33	25° δ 26'13	31.27690 AU
				morning rise	-11541 Aug 23 j 14:43	26° δ 00'06	
conjunction	-11547 Jul 26 j 10:13	12° δ 21'35	2°16'39	retrograde	-11541 Nov 20 j 02:12	27° δ 55'22	
minimum elong	-11547 Jul 26 j 10:12	12° δ 21'35	2°17'04	opposition	-11540 Feb 08 j 07:06	26° δ 32'34	2°45'19
max. Earth dist.	-11547 Jul 26 j 03:29	12° δ 20'57	31.27376 AU	min. Earth dist.	-11540 Feb 08 j 08:04	26° δ 32'30	29.27846 AU
morning rise	-11547 Aug 10 j 10:33	12° δ 55'25		direct	-11540 Apr 28 j 17:43	25° δ 09'18	
retrograde	-11547 Nov 06 j 08:32	14° δ 49'44		evening set	-11540 Jul 26 j 01:16	27° δ 03'46	

Attention, astronomical year style is used: The year -11540 in astronomical counting style is the year 11541 BCE in historical counting style.

conjunction	-11540 Aug 10 j 00:26	27° 8 37'31	2°35'44	max. Earth dist.	-11534 Aug 23 j 12:13	10° II 44'06	31.24523 AU
minimum elong	-11540 Aug 10 j 00:25	27° 8 37'31	2°36'15	morning rise	-11534 Sep 07 j 05:55	11° II 17'23	
max. Earth dist.	-11540 Aug 10 j 00:14	27° 8 37'30	31.27524 AU	retrograde	-11534 Dec 05 j 11:27	13° II 13'27	
morning rise	-11540 Aug 24 j 23:35	28° 8 11'18		opposition	-11533 Feb 24 j 03:00	11° II 50'02	2°55'00
	-11540 Nov 01 j 12:04	0° II		min. Earth dist.	-11533 Feb 23 j 21:04	11° II 50'26	29.24554 AU
retrograde	-11540 Nov 21 j 14:16	0° II 06'43		direct	-11533 May 15 j 04:39	10° II 26'55	
	-11540 Dec 12 j 03:15	30° 8		evening set	-11533 Aug 10 j 16:53	12° II 20'40	
opposition	-11539 Feb 09 j 20:15	28° 8 43'52	2°47'26				
min. Earth dist.	-11539 Feb 09 j 19:23	28° 8 43'55	29.27605 AU	conjunction	-11533 Aug 25 j 15:29	12° II 54'23	2°43'58
direct	-11539 May 01 j 05:56	27° 8 20'38		minimum elong	-11533 Aug 25 j 15:29	12° II 54'23	2°44'35
evening set	-11539 Jul 28 j 10:36	29° 8 15'00		max. Earth dist.	-11533 Aug 25 j 21:48	12° II 54'59	31.24113 AU
				morning rise	-11533 Sep 09 j 15:10	13° II 28'13	
conjunction	-11539 Aug 12 j 09:32	29° 8 48'45	2°37'36	retrograde	-11533 Dec 07 j 23:17	15° II 24'25	
minimum elong	-11539 Aug 12 j 09:31	29° 8 48'45	2°38'09	opposition	-11532 Feb 26 j 16:00	14° II 00'58	2°55'23
max. Earth dist.	-11539 Aug 12 j 09:35	29° 8 48'45	31.27202 AU	min. Earth dist.	-11532 Feb 26 j 08:00	14° II 01'30	29.24181 AU
	-11539 Aug 17 j 08:11	0° II		direct	-11532 May 16 j 15:18	12° II 37'54	
morning rise	-11539 Aug 27 j 08:43	0° II 22'32		evening set	-11532 Aug 12 j 01:45	14° II 31'34	
retrograde	-11539 Nov 24 j 03:07	2° II 18'05					
opposition	-11538 Feb 12 j 09:34	0° II 55'08	2°49'18	conjunction	-11532 Aug 27 j 00:25	15° II 05'18	2°44'13
min. Earth dist.	-11538 Feb 12 j 08:50	0° II 55'11	29.27227 AU	minimum elong	-11532 Aug 27 j 00:25	15° II 05'18	2°44'50
	-11538 Mar 21 j 16:08	30° 8		max. Earth dist.	-11532 Aug 27 j 08:09	15° II 06'02	31.23764 AU
direct	-11538 May 03 j 16:32	29° 8 31'56		morning rise	-11532 Sep 11 j 00:17	15° II 39'09	
	-11538 Jun 14 j 04:11	0° II		retrograde	-11532 Dec 09 j 10:30	17° II 35'32	
evening set	-11538 Jul 30 j 19:42	1° II 26'12		opposition	-11531 Feb 28 j 05:15	16° II 12'02	2°55'31
				min. Earth dist.	-11531 Feb 27 j 21:11	16° II 12'34	29.23860 AU
conjunction	-11538 Aug 14 j 18:37	1° II 59'56	2°39'14	direct	-11531 May 19 j 01:07	14° II 49'03	
minimum elong	-11538 Aug 14 j 18:37	1° II 59'56	2°39'47	evening set	-11531 Aug 14 j 10:45	16° II 42'39	
max. Earth dist.	-11538 Aug 14 j 20:09	2° II 00'04	31.26756 AU				
morning rise	-11538 Aug 29 j 17:43	2° II 33'43		conjunction	-11531 Aug 29 j 09:34	17° II 16'24	2°44'13
retrograde	-11538 Nov 26 j 14:38	4° II 29'22		minimum elong	-11531 Aug 29 j 09:34	17° II 16'24	2°44'51
opposition	-11537 Feb 14 j 22:41	3° II 06'19	2°50'56	max. Earth dist.	-11531 Aug 29 j 18:31	17° II 17'14	31.23464 AU
min. Earth dist.	-11537 Feb 14 j 20:29	3° II 06'28	29.26716 AU	morning rise	-11531 Sep 13 j 09:39	17° II 50'17	
direct	-11537 May 06 j 05:04	1° II 43'07		retrograde	-11531 Dec 11 j 22:54	19° II 46'48	
evening set	-11537 Aug 02 j 04:55	3° II 37'17		opposition	-11530 Mar 02 j 18:17	18° II 23'17	2°55'24
				min. Earth dist.	-11530 Mar 02 j 08:12	18° II 23'58	29.23556 AU
conjunction	-11537 Aug 17 j 03:34	4° II 11'00	2°40'39	direct	-11530 May 21 j 12:24	17° II 00'22	
minimum elong	-11537 Aug 17 j 03:33	4° II 11'00	2°41'14	evening set	-11530 Aug 16 j 19:51	18° II 53'56	
max. Earth dist.	-11537 Aug 17 j 05:03	4° II 11'08	31.26198 AU				
morning rise	-11537 Sep 01 j 02:50	4° II 44'47		conjunction	-11530 Aug 31 j 18:43	19° II 27'41	2°43'59
retrograde	-11537 Nov 29 j 02:39	6° II 40'32		minimum elong	-11530 Aug 31 j 18:43	19° II 27'41	2°44'36
opposition	-11536 Feb 17 j 11:45	5° II 17'23	2°52'20	max. Earth dist.	-11530 Sep 01 j 03:59	19° II 28'34	31.23140 AU
min. Earth dist.	-11536 Feb 17 j 09:05	5° II 17'34	29.26140 AU	morning rise	-11530 Sep 15 j 19:11	20° II 01'36	
direct	-11536 May 07 j 15:59	3° II 54'11		retrograde	-11530 Dec 14 j 12:13	21° II 58'17	
evening set	-11536 Aug 03 j 13:53	5° II 48'14		opposition	-11529 Mar 05 j 07:30	20° II 34'44	2°55'01
				min. Earth dist.	-11529 Mar 04 j 21:32	20° II 35'24	29.23211 AU
conjunction	-11536 Aug 18 j 12:37	6° II 21'57	2°41'50	direct	-11529 May 23 j 21:51	19° II 11'53	
minimum elong	-11536 Aug 18 j 12:36	6° II 21'57	2°42'24	evening set	-11529 Aug 19 j 04:56	21° II 05'24	
max. Earth dist.	-11536 Aug 18 j 16:12	6° II 22'17	31.25602 AU				
morning rise	-11536 Sep 02 j 11:46	6° II 55'44		conjunction	-11529 Sep 03 j 04:06	21° II 39'10	2°43'30
retrograde	-11536 Nov 30 j 13:12	8° II 51'35		minimum elong	-11529 Sep 03 j 04:06	21° II 39'10	2°44'09
opposition	-11535 Feb 19 j 00:55	7° II 28'20	2°53'28	max. Earth dist.	-11529 Sep 03 j 14:57	21° II 40'12	31.22754 AU
min. Earth dist.	-11535 Feb 18 j 21:06	7° II 28'35	29.25546 AU	morning rise	-11529 Sep 18 j 04:43	22° II 13'06	
direct	-11535 May 10 j 05:43	6° II 05'09		retrograde	-11529 Dec 17 j 00:23	24° II 09'56	
evening set	-11535 Aug 05 j 22:53	7° II 59'04		opposition	-11528 Mar 06 j 20:32	22° II 46'21	2°54'23
				min. Earth dist.	-11528 Mar 06 j 09:11	22° II 47'07	29.22766 AU
conjunction	-11535 Aug 20 j 21:24	8° II 32'47	2°42'47	direct	-11528 May 25 j 09:17	21° II 23'34	
minimum elong	-11535 Aug 20 j 21:24	8° II 32'47	2°43'22	evening set	-11528 Aug 20 j 14:15	23° II 17'02	
max. Earth dist.	-11535 Aug 21 j 01:08	8° II 33'08	31.25030 AU				
morning rise	-11535 Sep 04 j 20:50	9° II 06'35		conjunction	-11528 Sep 04 j 13:28	23° II 50'49	2°42'48
retrograde	-11535 Dec 03 j 02:02	11° II 02'32		minimum elong	-11528 Sep 04 j 13:28	23° II 50'49	2°43'25
opposition	-11534 Feb 21 j 14:02	9° II 39'11	2°54'21	max. Earth dist.	-11528 Sep 05 j 00:01	23° II 51'49	31.22256 AU
min. Earth dist.	-11534 Feb 21 j 08:36	9° II 39'33	29.25014 AU	morning rise	-11528 Sep 19 j 14:34	24° II 24'47	
direct	-11534 May 12 j 16:46	8° II 16'01		retrograde	-11528 Dec 18 j 13:54	26° II 21'46	
evening set	-11534 Aug 08 j 07:51	10° II 09'51		opposition	-11527 Mar 09 j 09:48	24° II 58'07	2°53'30
				min. Earth dist.	-11527 Mar 08 j 22:13	24° II 58'54	29.22211 AU
conjunction	-11534 Aug 23 j 06:30	10° II 43'34	2°43'30	direct	-11527 May 27 j 19:38	23° II 35'23	
minimum elong	-11534 Aug 23 j 06:30	10° II 43'34	2°44'04	evening set	-11527 Aug 22 j 23:22	25° II 28'46	

Attention, astronomical year style is used: The year -11527 in astronomical counting style is the year 11528 BCE in historical counting style.

conjunction	-11527 Sep 06 j 23:00	26°II02'35	2°41'51	retrograde	-11520 Jan 04 j 00:25	11°☾44'09	
minimum elong	-11527 Sep 06 j 23:00	26°II02'35	2°42'30	min. Earth dist.	-11520 Mar 24 j 11:29	10°☾21'03	29.16254 AU
max. Earth dist.	-11527 Sep 07 j 11:14	26°II03'44	31.21627 AU	opposition	-11520 Mar 25 j 04:32	10°☾19'53	2°40'26
morning rise	-11527 Sep 22 j 00:21	26°II36'35		direct	-11520 Jun 12 j 02:53	8°☾57'08	
retrograde	-11527 Dec 21 j 02:08	28°II33'40		evening set	-11520 Sep 06 j 15:37	10°☾49'50	
opposition	-11526 Mar 11 j 23:01	27°II09'57	2°52'22				
min. Earth dist.	-11526 Mar 11 j 10:47	27°II10'47	29.21502 AU	conjunction	-11520 Sep 21 j 18:00	11°☾23'52	2°28'49
direct	-11526 May 30 j 09:05	25°II47'14		minimum elong	-11520 Sep 21 j 18:00	11°☾23'52	2°29'27
evening set	-11526 Aug 25 j 08:45	27°II40'32		max. Earth dist.	-11520 Sep 22 j 12:17	11°☾25'36	31.15707 AU
				morning rise	-11520 Oct 06 j 22:56	11°☾58'09	
conjunction	-11526 Sep 09 j 08:33	28°II14'22	2°40'40	retrograde	-11519 Jan 05 j 12:25	13°☾55'48	
minimum elong	-11526 Sep 09 j 08:33	28°II14'22	2°41'18	opposition	-11519 Mar 27 j 17:17	12°☾31'29	2°37'36
max. Earth dist.	-11526 Sep 09 j 20:20	28°II15'29	31.20858 AU	min. Earth dist.	-11519 Mar 26 j 22:31	12°☾32'46	29.15618 AU
morning rise	-11526 Sep 24 j 10:28	28°II48'25		direct	-11519 Jun 14 j 13:38	11°☾08'46	
	-11526 Oct 30 j 19:10	0°☾		evening set	-11519 Sep 09 j 00:53	13°☾01'24	
retrograde	-11526 Dec 23 j 15:50	0°☾45'35					
	-11525 Feb 18 j 00:51	30°☾II		conjunction	-11519 Sep 24 j 03:38	13°☾35'28	2°26'04
opposition	-11525 Mar 14 j 11:57	29°II21'48	2°50'59	minimum elong	-11519 Sep 24 j 03:39	13°☾35'28	2°26'43
min. Earth dist.	-11525 Mar 13 j 22:48	29°II22'41	29.20668 AU	max. Earth dist.	-11519 Sep 24 j 21:54	13°☾37'12	31.15123 AU
direct	-11525 Jun 01 j 19:59	27°II59'04		morning rise	-11519 Oct 09 j 09:25	14°☾09'49	
evening set	-11525 Aug 27 j 17:55	29°II52'16		retrograde	-11518 Jan 08 j 02:25	16°☾07'34	
	-11525 Aug 31 j 05:07	0°☾		min. Earth dist.	-11518 Mar 29 j 11:02	14°☾44'30	29.15063 AU
				opposition	-11518 Mar 30 j 06:09	14°☾43'13	2°34'32
conjunction	-11525 Sep 11 j 18:09	0°☾26'08	2°39'16	direct	-11518 Jun 16 j 23:28	13°☾20'31	
minimum elong	-11525 Sep 11 j 18:10	0°☾26'08	2°39'55	evening set	-11518 Sep 11 j 10:13	15°☾13'07	
max. Earth dist.	-11525 Sep 12 j 07:20	0°☾27'23	31.19965 AU				
morning rise	-11525 Sep 26 j 20:25	1°☾00'13		conjunction	-11518 Sep 26 j 13:40	15°☾47'14	2°23'06
retrograde	-11525 Dec 26 j 01:44	2°☾57'28		minimum elong	-11518 Sep 26 j 13:41	15°☾47'14	2°23'43
min. Earth dist.	-11524 Mar 15 j 11:50	1°☾34'28	29.19728 AU	max. Earth dist.	-11518 Sep 27 j 09:46	15°☾49'08	31.14586 AU
opposition	-11524 Mar 16 j 01:02	1°☾33'34	2°49'21	morning rise	-11518 Oct 11 j 19:55	16°☾21'37	
direct	-11524 Jun 03 j 08:19	0°☾10'50		retrograde	-11517 Jan 10 j 15:09	18°☾19'28	
evening set	-11524 Aug 29 j 03:00	2°☾03'55		opposition	-11517 Apr 01 j 18:45	16°☾55'05	2°31'14
				min. Earth dist.	-11517 Mar 31 j 22:59	16°☾56'26	29.14521 AU
conjunction	-11524 Sep 13 j 03:33	2°☾37'49	2°37'37	direct	-11517 Jun 19 j 11:24	15°☾32'26	
minimum elong	-11524 Sep 13 j 03:33	2°☾37'49	2°38'16	evening set	-11517 Sep 13 j 19:45	17°☾24'59	
max. Earth dist.	-11524 Sep 13 j 17:11	2°☾39'06	31.19015 AU				
morning rise	-11524 Sep 28 j 06:21	3°☾11'56		conjunction	-11517 Sep 28 j 23:38	17°☾59'09	2°19'54
retrograde	-11524 Dec 27 j 13:48	5°☾09'15		minimum elong	-11517 Sep 28 j 23:39	17°☾59'09	2°20'32
opposition	-11523 Mar 18 j 14:00	3°☾45'15	2°47'29	max. Earth dist.	-11517 Sep 29 j 19:26	18°☾01'01	31.14054 AU
min. Earth dist.	-11523 Mar 17 j 23:04	3°☾46'16	29.18764 AU	morning rise	-11517 Oct 14 j 06:41	18°☾33'36	
direct	-11523 Jun 05 j 20:05	2°☾22'30		retrograde	-11516 Jan 13 j 05:23	20°☾31'32	
evening set	-11523 Aug 31 j 12:11	4°☾15'28		min. Earth dist.	-11516 Apr 02 j 10:54	19°☾08'32	29.13967 AU
				opposition	-11516 Apr 03 j 07:33	19°☾07'08	2°27'43
conjunction	-11523 Sep 15 j 13:06	4°☾49'23	2°35'46	direct	-11516 Jun 20 j 21:28	17°☾44'31	
minimum elong	-11523 Sep 15 j 13:06	4°☾49'23	2°36'25	evening set	-11516 Sep 15 j 05:13	19°☾37'01	
max. Earth dist.	-11523 Sep 16 j 03:48	4°☾50'47	31.18056 AU				
morning rise	-11523 Sep 30 j 16:26	5°☾23'33		conjunction	-11516 Sep 30 j 09:45	20°☾11'14	2°16'31
retrograde	-11523 Dec 30 j 00:57	7°☾20'57		minimum elong	-11516 Sep 30 j 09:45	20°☾11'14	2°17'07
opposition	-11522 Mar 21 j 02:56	5°☾56'50	2°45'22	max. Earth dist.	-11516 Oct 01 j 06:47	20°☾13'13	31.13467 AU
min. Earth dist.	-11522 Mar 20 j 12:06	5°☾57'50	29.17835 AU	morning rise	-11516 Oct 15 j 17:24	20°☾45'45	
direct	-11522 Jun 08 j 06:35	4°☾34'04		retrograde	-11515 Jan 14 j 17:08	22°☾43'47	
evening set	-11522 Sep 02 j 21:18	6°☾26'56		opposition	-11515 Apr 05 j 20:26	21°☾19'19	2°23'59
				min. Earth dist.	-11515 Apr 04 j 23:58	21°☾20'43	29.13332 AU
conjunction	-11522 Sep 17 j 22:44	7°☾00'53	2°33'40	direct	-11515 Jun 23 j 09:23	19°☾56'45	
minimum elong	-11522 Sep 17 j 22:44	7°☾00'53	2°34'18	evening set	-11515 Sep 17 j 14:59	21°☾49'12	
max. Earth dist.	-11522 Sep 18 j 14:43	7°☾02'24	31.17174 AU				
morning rise	-11522 Oct 03 j 02:33	7°☾35'05		conjunction	-11515 Oct 02 j 20:07	22°☾23'27	2°12'55
retrograde	-11521 Jan 01 j 12:16	9°☾32'33		minimum elong	-11515 Oct 02 j 20:08	22°☾23'27	2°13'32
opposition	-11521 Mar 23 j 15:41	8°☾08'21	2°43'01	max. Earth dist.	-11515 Oct 03 j 17:13	22°☾25'27	31.12798 AU
min. Earth dist.	-11521 Mar 22 j 22:46	8°☾09'30	29.16990 AU	morning rise	-11515 Oct 18 j 04:32	22°☾58'02	
direct	-11521 Jun 10 j 17:58	6°☾45'35		retrograde	-11514 Jan 17 j 07:02	24°☾56'08	
evening set	-11521 Sep 05 j 06:30	8°☾38'22		min. Earth dist.	-11514 Apr 07 j 11:28	23°☾33'06	29.12597 AU
				opposition	-11514 Apr 08 j 09:04	23°☾31'38	2°20'02
conjunction	-11521 Sep 20 j 08:14	9°☾12'21	2°31'22	direct	-11514 Jun 25 j 21:01	22°☾09'04	
minimum elong	-11521 Sep 20 j 08:15	9°☾12'21	2°32'00	evening set	-11514 Sep 20 j 00:51	24°☾01'28	
max. Earth dist.	-11521 Sep 21 j 00:35	9°☾13'54	31.16379 AU				
morning rise	-11521 Oct 05 j 12:44	9°☾46'36		conjunction	-11514 Oct 05 j 06:36	24°☾35'47	2°09'07

Attention, astronomical year style is used: The year -11514 in astronomical counting style is the year 11515 BCE in historical counting style.

minimum elong	-11514 Oct 05 j 06:37	24° Ω 35'47	2°09'43	min. Earth dist.	-11507 Apr 22 j 23:48	8° Ω 59'48	29.06174 AU
max. Earth dist.	-11514 Oct 06 j 03:58	24° Ω 37'48	31.11998 AU	opposition	-11507 Apr 24 j 00:28	8° Ω 58'06	1°47'02
morning rise	-11514 Oct 20 j 15:47	25° Ω 10'24		direct	-11507 Jul 10 j 22:20	7° Ω 35'25	
retrograde	-11513 Jan 19 j 18:59	27° Ω 08'35		evening set	-11507 Oct 04 j 22:14	9° Ω 27'26	
opposition	-11513 Apr 10 j 21:53	25° Ω 44'01	2°15'53				
min. Earth dist.	-11513 Apr 10 j 01:04	25° Ω 45'27	29.11729 AU	conjunction	-11507 Oct 20 j 08:57	10° Ω 02'07	1°37'39
direct	-11513 Jun 28 j 07:42	24° Ω 21'27		minimum elong	-11507 Oct 20 j 08:58	10° Ω 02'07	1°38'11
evening set	-11513 Sep 22 j 10:33	26° Ω 13'46		max. Earth dist.	-11507 Oct 21 j 10:38	10° Ω 04'32	31.05722 AU
				morning rise	-11507 Nov 04 j 23:33	10° Ω 37'10	
conjunction	-11513 Oct 07 j 17:03	26° Ω 48'08	2°05'09	retrograde	-11506 Feb 04 j 11:20	12° Ω 35'38	
minimum elong	-11513 Oct 07 j 17:04	26° Ω 48'08	2°05'45	opposition	-11506 Apr 26 j 12:39	11° Ω 10'40	1°41'37
max. Earth dist.	-11513 Oct 08 j 15:09	26° Ω 50'13	31.11088 AU	min. Earth dist.	-11506 Apr 25 j 12:07	11° Ω 12'21	29.05537 AU
morning rise	-11513 Oct 23 j 02:53	27° Ω 22'49		direct	-11506 Jul 13 j 09:58	9° Ω 48'00	
retrograde	-11512 Jan 22 j 06:39	29° Ω 21'02		evening set	-11506 Oct 07 j 08:31	11° Ω 40'00	
opposition	-11512 Apr 12 j 10:28	27° Ω 56'25	2°11'32				
min. Earth dist.	-11512 Apr 11 j 12:15	27° Ω 57'56	29.10755 AU	conjunction	-11506 Oct 22 j 19:59	12° Ω 14'45	1°32'31
direct	-11512 Jun 29 j 19:23	26° Ω 33'49		minimum elong	-11506 Oct 22 j 20:00	12° Ω 14'45	1°33'01
evening set	-11512 Sep 23 j 20:28	28° Ω 26'04		max. Earth dist.	-11506 Oct 23 j 21:51	12° Ω 17'11	31.05143 AU
				morning rise	-11506 Nov 07 j 11:24	12° Ω 49'51	
conjunction	-11512 Oct 09 j 03:30	29° Ω 00'28	2°00'59	retrograde	-11505 Feb 07 j 02:27	14° Ω 48'23	
minimum elong	-11512 Oct 09 j 03:31	29° Ω 00'28	2°01'34	min. Earth dist.	-11505 Apr 27 j 23:07	13° Ω 25'10	29.04973 AU
max. Earth dist.	-11512 Oct 10 j 01:17	29° Ω 02'32	31.10087 AU	opposition	-11505 Apr 29 j 00:49	13° Ω 23'24	1°36'02
morning rise	-11512 Oct 24 j 14:15	29° Ω 35'13		direct	-11505 Jul 15 j 21:43	12° Ω 00'46	
	-11512 Nov 05 j 02:22	0° Ω		evening set	-11505 Oct 09 j 18:52	13° Ω 52'46	
retrograde	-11511 Jan 23 j 18:42	1° Ω 33'29					
opposition	-11511 Apr 14 j 23:08	0° Ω 08'46	2°06'59	conjunction	-11505 Oct 25 j 07:00	14° Ω 27'34	1°27'14
min. Earth dist.	-11511 Apr 14 j 01:25	0° Ω 10'15	29.09731 AU	minimum elong	-11505 Oct 25 j 07:00	14° Ω 27'34	1°27'44
	-11511 Apr 20 j 07:22	30° Ω		max. Earth dist.	-11505 Oct 26 j 09:14	14° Ω 30'02	31.04593 AU
direct	-11511 Jul 02 j 04:33	28° Ω 46'09			-11505 Nov 08 j 17:27	15° Ω	
	-11511 Sep 08 j 01:22	0° Ω		morning rise	-11505 Nov 09 j 23:13	15° Ω 02'45	
evening set	-11511 Sep 26 j 06:12	0° Ω 38'19		retrograde	-11504 Feb 09 j 14:47	17° Ω 01'20	
				opposition	-11504 Apr 30 j 13:08	15° Ω 36'21	1°30'19
conjunction	-11511 Oct 11 j 14:07	1° Ω 12'47	1°56'39	min. Earth dist.	-11504 Apr 29 j 12:16	15° Ω 38'03	29.04423 AU
minimum elong	-11511 Oct 11 j 14:08	1° Ω 12'47	1°57'14		-11504 May 23 j 06:20	15° Ω	
max. Earth dist.	-11511 Oct 12 j 13:27	1° Ω 14'59	31.09068 AU	direct	-11504 Jul 17 j 08:14	14° Ω 13'44	
morning rise	-11511 Oct 27 j 01:30	1° Ω 47'35			-11504 Sep 07 j 22:49	15° Ω	
retrograde	-11510 Jan 26 j 06:34	3° Ω 45'52		evening set	-11504 Oct 11 j 05:25	16° Ω 05'44	
opposition	-11510 Apr 17 j 11:32	2° Ω 21'05	2°02'16				
min. Earth dist.	-11510 Apr 16 j 12:34	2° Ω 22'39	29.08707 AU	conjunction	-11504 Oct 26 j 18:23	16° Ω 40'35	1°21'49
direct	-11510 Jul 04 j 15:33	0° Ω 58'25		minimum elong	-11504 Oct 26 j 18:24	16° Ω 40'35	1°22'17
evening set	-11510 Sep 28 j 16:14	2° Ω 50'32		max. Earth dist.	-11504 Oct 27 j 21:16	16° Ω 43'07	31.04050 AU
				morning rise	-11504 Nov 11 j 11:19	17° Ω 15'50	
conjunction	-11510 Oct 14 j 00:40	3° Ω 25'02	1°52'09	retrograde	-11503 Feb 11 j 03:21	19° Ω 14'27	
minimum elong	-11510 Oct 14 j 00:41	3° Ω 25'03	1°52'41	min. Earth dist.	-11503 May 01 j 23:20	17° Ω 51'15	29.03846 AU
max. Earth dist.	-11510 Oct 14 j 23:36	3° Ω 27'12	31.08078 AU	opposition	-11503 May 03 j 01:14	17° Ω 49'28	1°24'27
morning rise	-11510 Oct 29 j 12:59	3° Ω 59'54		direct	-11503 Jul 19 j 19:43	16° Ω 26'53	
retrograde	-11509 Jan 28 j 20:01	5° Ω 58'14		evening set	-11503 Oct 13 j 16:17	18° Ω 18'52	
opposition	-11509 Apr 19 j 23:50	4° Ω 33'22	1°57'22				
min. Earth dist.	-11509 Apr 19 j 00:49	4° Ω 34'57	29.07756 AU	conjunction	-11503 Oct 29 j 05:52	18° Ω 53'47	1°16'16
direct	-11509 Jul 07 j 01:16	3° Ω 10'41		minimum elong	-11503 Oct 29 j 05:53	18° Ω 53'47	1°16'44
evening set	-11509 Oct 01 j 02:08	5° Ω 02'45		max. Earth dist.	-11503 Oct 30 j 07:57	18° Ω 56'14	31.03440 AU
				morning rise	-11503 Nov 13 j 23:44	19° Ω 29'05	
conjunction	-11509 Oct 16 j 11:25	5° Ω 37'19	1°47'29	retrograde	-11502 Feb 13 j 16:19	21° Ω 27'45	
minimum elong	-11509 Oct 16 j 11:26	5° Ω 37'19	1°48'02	opposition	-11502 May 05 j 13:32	20° Ω 02'45	1°18'27
max. Earth dist.	-11509 Oct 17 j 12:05	5° Ω 39'39	31.07176 AU	min. Earth dist.	-11502 May 04 j 12:40	20° Ω 04'28	29.03187 AU
morning rise	-11509 Nov 01 j 00:20	6° Ω 12'14		direct	-11502 Jul 22 j 05:08	18° Ω 40'09	
retrograde	-11508 Jan 31 j 08:39	8° Ω 10'36		evening set	-11502 Oct 16 j 03:10	20° Ω 32'08	
opposition	-11508 Apr 21 j 12:09	6° Ω 45'41	1°52'17				
min. Earth dist.	-11508 Apr 20 j 12:22	6° Ω 47'19	29.06901 AU	conjunction	-11502 Oct 31 j 17:39	21° Ω 07'06	1°10'36
direct	-11508 Jul 08 j 12:46	5° Ω 23'00		minimum elong	-11502 Oct 31 j 17:40	21° Ω 07'06	1°11'02
evening set	-11508 Oct 02 j 12:05	7° Ω 15'02		max. Earth dist.	-11502 Nov 01 j 20:34	21° Ω 09'38	31.02729 AU
				morning rise	-11502 Nov 16 j 12:06	21° Ω 42'27	
conjunction	-11508 Oct 17 j 21:59	7° Ω 49'39	1°42'39	retrograde	-11501 Feb 16 j 04:24	23° Ω 41'09	
minimum elong	-11508 Oct 17 j 22:00	7° Ω 49'39	1°43'10	min. Earth dist.	-11501 May 07 j 00:06	22° Ω 17'52	29.02401 AU
max. Earth dist.	-11508 Oct 18 j 22:26	7° Ω 51'58	31.06398 AU	opposition	-11501 May 08 j 01:32	22° Ω 16'07	1°12'21
morning rise	-11508 Nov 02 j 11:51	8° Ω 24'38		direct	-11501 Jul 24 j 16:27	20° Ω 53'29	
retrograde	-11507 Feb 01 j 22:44	10° Ω 23'04		evening set	-11501 Oct 18 j 14:16	22° Ω 45'27	

Attention, astronomical year style is used: The year -11501 in astronomical counting style is the year 11502 BCE in historical counting style.

conjunction	-11501 Nov 03 j 05:20	23° Ω 20'28	1°04'50	max. Earth dist.	-11495 Nov 17 j 08:19	6° η 42'11	30.96382 AU
minimum elong	-11501 Nov 03 j 05:21	23° Ω 20'28	1°05'16	morning rise	-11495 Dec 02 j 04:48	7° η 15'22	
max. Earth dist.	-11501 Nov 04 j 07:04	23° Ω 22'53	31.01895 AU	retrograde	-11494 Mar 03 j 23:46	9° η 13'58	
morning rise	-11501 Nov 19 j 00:44	23° Ω 55'53		min. Earth dist.	-11494 May 22 j 10:53	7° η 50'21	28.96092 AU
retrograde	-11500 Feb 18 j 17:16	25° Ω 54'35		opposition	-11494 May 23 j 12:25	7° η 48'34	0°27'05
opposition	-11500 May 09 j 13:45	24° Ω 29'29	1°06'08	direct	-11494 Aug 08 j 21:47	6° η 25'35	
min. Earth dist.	-11500 May 08 j 12:56	24° Ω 31'12	29.01507 AU	evening set	-11494 Nov 02 j 21:22	8° η 17'33	
direct	-11500 Jul 26 j 02:13	23° Ω 06'49					
evening set	-11500 Oct 20 j 01:11	24° Ω 58'45		conjunction	-11494 Nov 18 j 17:23	8° η 52'55	0°22'17
				minimum elong	-11494 Nov 18 j 17:23	8° η 52'55	0°22'33
conjunction	-11500 Nov 04 j 17:10	25° Ω 33'49	0°58'59	max. Earth dist.	-11494 Nov 19 j 19:45	8° η 55'23	30.95745 AU
minimum elong	-11500 Nov 04 j 17:10	25° Ω 33'49	0°59'22	morning rise	-11494 Dec 04 j 17:44	9° η 28'41	
max. Earth dist.	-11500 Nov 05 j 19:53	25° Ω 36'20	31.00954 AU	retrograde	-11493 Mar 06 j 13:07	11° η 27'19	
morning rise	-11500 Nov 20 j 13:11	26° Ω 09'17		opposition	-11493 May 25 j 24:00	10° η 01'55	0°20'22
retrograde	-11499 Feb 20 j 05:00	28° Ω 07'58		min. Earth dist.	-11493 May 24 j 23:24	10° η 03'38	28.95506 AU
min. Earth dist.	-11499 May 11 j 01:03	26° Ω 44'31	29.00511 AU	direct	-11493 Aug 11 j 07:16	8° η 38'56	
opposition	-11499 May 12 j 01:47	26° Ω 42'48	0°59'49	evening set	-11493 Nov 05 j 09:01	10° η 30'57	
direct	-11499 Jul 28 j 13:36	25° Ω 20'04					
evening set	-11499 Oct 22 j 12:26	27° Ω 11'59		conjunction	-11493 Nov 21 j 05:51	11° η 06'23	0°15'59
				minimum elong	-11493 Nov 21 j 05:51	11° η 06'23	0°16'14
conjunction	-11499 Nov 07 j 05:03	27° Ω 47'06	0°53'02	max. Earth dist.	-11493 Nov 22 j 09:12	11° η 08'56	30.95205 AU
minimum elong	-11499 Nov 07 j 05:04	27° Ω 47'06	0°53'25	morning rise	-11493 Dec 07 j 06:39	11° η 42'11	
max. Earth dist.	-11499 Nov 08 j 06:49	27° Ω 49'31	30.99949 AU	retrograde	-11492 Mar 08 j 01:20	13° η 40'50	
morning rise	-11499 Nov 23 j 01:58	28° Ω 22'37		min. Earth dist.	-11492 May 26 j 10:16	12° η 17'14	28.94985 AU
	-11498 Jan 17 j 06:56	0° η		opposition	-11492 May 27 j 11:28	12° η 15'28	0°13'37
retrograde	-11498 Feb 22 j 19:01	0° η 21'16		direct	-11492 Aug 12 j 18:29	10° η 52'29	
	-11498 Apr 01 j 00:14	30° κ Ω		evening set	-11492 Nov 06 j 20:59	12° η 44'34	
opposition	-11498 May 14 j 13:35	28° Ω 56'02	0°53'24				
min. Earth dist.	-11498 May 13 j 12:42	28° Ω 57'45	28.99493 AU	conjunction	-11492 Nov 22 j 18:17	13° η 20'02	0°09'40
direct	-11498 Jul 30 j 23:28	27° Ω 33'13		minimum elong	-11492 Nov 22 j 18:17	13° η 20'02	0°09'53
evening set	-11498 Oct 24 j 23:40	29° Ω 25'07		behind sun begin	-11492 Nov 22 j 13:00	13° η 19'34	
				behind sun end	-11492 Nov 22 j 23:35	13° η 20'31	
conjunction	-11498 Nov 09 j 17:03	0° η 00'17	0°47'00	max. Earth dist.	-11492 Nov 23 j 20:27	13° η 22'29	30.94708 AU
minimum elong	-11498 Nov 09 j 17:03	0° η 00'17	0°47'21	morning rise	-11492 Dec 08 j 19:53	13° η 55'54	
	-11498 Nov 09 j 14:03	0° η		retrograde	-11491 Mar 10 j 14:10	15° η 54'34	
max. Earth dist.	-11498 Nov 10 j 19:29	0° η 02'46	30.98931 AU	opposition	-11491 May 29 j 23:04	14° η 29'14	0°06'50
morning rise	-11498 Nov 25 j 14:36	0° η 35'51		min. Earth dist.	-11491 May 28 j 22:42	14° η 30'56	28.94493 AU
retrograde	-11497 Feb 25 j 07:19	2° η 34'28		direct	-11491 Aug 15 j 03:50	13° η 06'15	
min. Earth dist.	-11497 May 16 j 01:02	1° η 10'52	28.98492 AU	evening set	-11491 Nov 09 j 09:09	14° η 58'25	
opposition	-11497 May 17 j 01:25	1° η 09'10	0°46'56				
	-11497 Jul 04 j 21:57	30° κ Ω		conjunction	-11491 Nov 25 j 07:12	15° η 33'55	0°03'21
direct	-11497 Aug 02 j 11:23	29° Ω 46'17		minimum elong	-11491 Nov 25 j 07:12	15° η 33'55	0°03'33
	-11497 Aug 30 j 14:22	0° η		behind sun begin	-11491 Nov 25 j 00:43	15° η 33'21	
evening set	-11497 Oct 27 j 10:49	1° η 38'11		behind sun end	-11491 Nov 25 j 13:41	15° η 34'30	
				max. Earth dist.	-11491 Nov 26 j 10:04	15° η 36'26	30.94199 AU
conjunction	-11497 Nov 12 j 04:53	2° η 13'23	0°40'54	morning rise	-11491 Dec 11 j 09:12	16° η 09'49	
minimum elong	-11497 Nov 12 j 04:54	2° η 13'24	0°41'15	retrograde	-11490 Mar 13 j 01:56	18° η 08'31	
max. Earth dist.	-11497 Nov 13 j 07:17	2° η 15'52	30.97978 AU	min. Earth dist.	-11490 May 31 j 10:31	16° η 44'52	28.93955 AU
morning rise	-11497 Nov 28 j 03:09	2° η 49'00		opposition	-11490 Jun 01 j 10:26	16° η 43'12	0°00'02
retrograde	-11496 Feb 27 j 22:02	4° η 47'37		desc. node	-11490 Jun 02 j 23:10	16° η 40'37	
min. Earth dist.	-11496 May 17 j 11:46	3° η 24'01	28.97581 AU	direct	-11490 Aug 17 j 14:26	15° η 20'12	
opposition	-11496 May 18 j 13:09	3° η 22'15	0°40'23	evening set	-11490 Nov 11 j 21:36	17° η 12'27	
direct	-11496 Aug 03 j 23:21	1° η 59'20					
evening set	-11496 Oct 28 j 22:14	3° η 51'13		conjunction	-11490 Nov 27 j 20:06	17° η 48'00	-0°03'10
				minimum elong	-11490 Nov 27 j 20:07	17° η 48'00	0°02'59
conjunction	-11496 Nov 13 j 16:57	4° η 26'29	0°34'45	behind sun begin	-11490 Nov 27 j 13:36	17° η 47'25	
minimum elong	-11496 Nov 13 j 16:57	4° η 26'30	0°35'04	behind sun end	-11490 Nov 28 j 02:38	17° η 48'35	
max. Earth dist.	-11496 Nov 14 j 19:29	4° η 28'59	30.97115 AU	max. Earth dist.	-11490 Nov 28 j 21:28	17° η 50'22	30.93635 AU
morning rise	-11496 Nov 29 j 15:57	5° η 02'09		morning rise	-11490 Dec 13 j 22:46	18° η 23'56	
retrograde	-11495 Mar 01 j 10:15	7° η 00'46		retrograde	-11489 Mar 15 j 16:17	20° η 22'38	
min. Earth dist.	-11495 May 20 j 00:23	5° η 37'04	28.96779 AU	opposition	-11489 Jun 03 j 21:58	18° η 57'19	-0°06'46
opposition	-11495 May 21 j 00:51	5° η 35'22	0°33'46	min. Earth dist.	-11489 Jun 02 j 22:21	18° η 58'59	28.93351 AU
direct	-11495 Aug 06 j 09:55	4° η 12'24		direct	-11489 Aug 19 j 23:53	17° η 34'17	
evening set	-11495 Oct 31 j 09:41	6° η 04'20		evening set	-11489 Nov 14 j 09:56	19° η 26'36	
conjunction	-11495 Nov 16 j 05:13	6° η 39'39	0°28'32	conjunction	-11489 Nov 30 j 09:04	20° η 02'12	-0°09'30
minimum elong	-11495 Nov 16 j 05:13	6° η 39'39	0°28'51	minimum elong	-11489 Nov 30 j 09:04	20° η 02'12	0°09'20

Attention, astronomical year style is used: The year -11489 in astronomical counting style is the year 11490 BCE in historical counting style.

behind sun begin	-11489 Nov 30 j 03:35	20° $\mathring{\text{M}}$ 01'42		max. Earth dist.	-11483 Dec 14 j 14:35	3° $\mathring{\text{A}}$ 28'46	30.88455 AU
behind sun end	-11489 Nov 30 j 14:33	20° $\mathring{\text{M}}$ 02'41		morning rise	-11483 Dec 29 j 22:14	4° $\mathring{\text{A}}$ 02'50	
max. Earth dist.	-11489 Dec 01 j 10:30	20° $\mathring{\text{M}}$ 04'34	30.92971 AU	retrograde	-11482 Mar 31 j 11:17	6° $\mathring{\text{A}}$ 01'11	
morning rise	-11489 Dec 16 j 12:09	20° $\mathring{\text{M}}$ 38'10		min. Earth dist.	-11482 Jun 18 j 08:08	4° $\mathring{\text{A}}$ 37'07	28.88272 AU
retrograde	-11488 Mar 17 j 04:26	22° $\mathring{\text{M}}$ 36'51		opposition	-11482 Jun 19 j 04:19	4° $\mathring{\text{A}}$ 35'41	-0°53'31
min. Earth dist.	-11488 Jun 04 j 11:00	21° $\mathring{\text{M}}$ 13'07	28.92635 AU	direct	-11482 Sep 04 j 09:00	3° $\mathring{\text{A}}$ 12'08	
opposition	-11488 Jun 05 j 09:31	21° $\mathring{\text{M}}$ 11'32	-0°13'34	evening set	-11482 Nov 30 j 03:36	5° $\mathring{\text{A}}$ 04'52	
direct	-11488 Aug 21 j 11:54	19° $\mathring{\text{M}}$ 48'27					
evening set	-11488 Nov 15 j 22:32	21° $\mathring{\text{M}}$ 40'49		conjunction	-11482 Dec 16 j 06:07	5° $\mathring{\text{A}}$ 40'40	-0°53'01
				minimum elong	-11482 Dec 16 j 06:07	5° $\mathring{\text{A}}$ 40'40	0°53'02
conjunction	-11488 Dec 01 j 22:15	22° $\mathring{\text{M}}$ 16'26	-0°15'49	max. Earth dist.	-11482 Dec 17 j 04:57	5° $\mathring{\text{A}}$ 42'48	30.88023 AU
minimum elong	-11488 Dec 01 j 22:15	22° $\mathring{\text{M}}$ 16'26	0°15'42	morning rise	-11481 Jan 01 j 11:54	6° $\mathring{\text{A}}$ 16'48	
behind sun begin	-11488 Dec 01 j 21:14	22° $\mathring{\text{M}}$ 16'21		retrograde	-11481 Apr 02 j 22:56	8° $\mathring{\text{A}}$ 15'07	
behind sun end	-11488 Dec 01 j 23:16	22° $\mathring{\text{M}}$ 16'32		opposition	-11481 Jun 21 j 15:17	6° $\mathring{\text{A}}$ 49'38	-0°59'57
max. Earth dist.	-11488 Dec 02 j 22:41	22° $\mathring{\text{M}}$ 18'43	30.92220 AU	min. Earth dist.	-11481 Jun 20 j 19:20	6° $\mathring{\text{A}}$ 51'03	28.87910 AU
morning rise	-11488 Dec 18 j 01:52	22° $\mathring{\text{M}}$ 52'26		direct	-11481 Sep 06 j 19:45	5° $\mathring{\text{A}}$ 26'03	
retrograde	-11487 Mar 19 j 18:59	24° $\mathring{\text{M}}$ 51'05		evening set	-11481 Dec 02 j 16:40	7° $\mathring{\text{A}}$ 18'52	
opposition	-11487 Jun 07 j 20:47	23° $\mathring{\text{M}}$ 25'44	-0°20'20				
min. Earth dist.	-11487 Jun 06 j 22:06	23° $\mathring{\text{M}}$ 27'20	28.91839 AU	conjunction	-11481 Dec 18 j 19:27	7° $\mathring{\text{A}}$ 54'42	-0°59'00
direct	-11487 Aug 24 j 00:11	22° $\mathring{\text{M}}$ 02'34		minimum elong	-11481 Dec 18 j 19:26	7° $\mathring{\text{A}}$ 54'42	0°59'02
evening set	-11487 Nov 18 j 11:17	23° $\mathring{\text{M}}$ 54'59		max. Earth dist.	-11481 Dec 19 j 16:57	7° $\mathring{\text{A}}$ 56'42	30.87732 AU
				morning rise	-11480 Jan 04 j 01:40	8° $\mathring{\text{A}}$ 30'51	
conjunction	-11487 Dec 04 j 11:29	24° $\mathring{\text{M}}$ 30'39	-0°22'08	retrograde	-11480 Apr 04 j 12:19	10° $\mathring{\text{A}}$ 29'09	
minimum elong	-11487 Dec 04 j 11:29	24° $\mathring{\text{M}}$ 30'39	0°22'02	min. Earth dist.	-11480 Jun 22 j 06:27	9° $\mathring{\text{A}}$ 05'06	28.87681 AU
max. Earth dist.	-11487 Dec 05 j 11:20	24° $\mathring{\text{M}}$ 32'53	30.91385 AU	opposition	-11480 Jun 23 j 02:15	9° $\mathring{\text{A}}$ 03'42	-1°06'18
morning rise	-11487 Dec 20 j 15:36	25° $\mathring{\text{M}}$ 06'41		direct	-11480 Sep 08 j 05:29	7° $\mathring{\text{A}}$ 40'05	
retrograde	-11486 Mar 22 j 07:10	27° $\mathring{\text{M}}$ 05'17		evening set	-11480 Dec 04 j 06:02	9° $\mathring{\text{A}}$ 33'02	
min. Earth dist.	-11486 Jun 09 j 11:02	25° $\mathring{\text{M}}$ 41'22	28.90991 AU				
opposition	-11486 Jun 10 j 08:10	25° $\mathring{\text{M}}$ 39'53	-0°27'05	conjunction	-11480 Dec 20 j 09:14	10° $\mathring{\text{A}}$ 08'52	-1°04'54
direct	-11486 Aug 26 j 11:10	24° $\mathring{\text{M}}$ 16'37		minimum elong	-11480 Dec 20 j 09:13	10° $\mathring{\text{A}}$ 08'52	1°04'58
evening set	-11486 Nov 20 j 23:55	26° $\mathring{\text{M}}$ 09'05		max. Earth dist.	-11480 Dec 21 j 06:57	10° $\mathring{\text{A}}$ 10'54	30.87534 AU
				morning rise	-11479 Jan 05 j 15:35	10° $\mathring{\text{A}}$ 45'02	
conjunction	-11486 Dec 07 j 00:42	26° $\mathring{\text{M}}$ 44'47	-0°28'25	retrograde	-11479 Apr 06 j 23:27	12° $\mathring{\text{A}}$ 43'18	
minimum elong	-11486 Dec 07 j 00:41	26° $\mathring{\text{M}}$ 44'47	0°28'21	opposition	-11479 Jun 25 j 13:08	11° $\mathring{\text{A}}$ 17'55	-1°12'34
max. Earth dist.	-11486 Dec 08 j 00:31	26° $\mathring{\text{M}}$ 47'01	30.90539 AU	min. Earth dist.	-11479 Jun 24 j 18:31	11° $\mathring{\text{A}}$ 19'14	28.87521 AU
morning rise	-11486 Dec 23 j 05:08	27° $\mathring{\text{M}}$ 20'50		direct	-11479 Sep 10 j 16:40	9° $\mathring{\text{A}}$ 54'17	
retrograde	-11485 Mar 24 j 21:15	29° $\mathring{\text{M}}$ 19'22		evening set	-11479 Dec 06 j 19:38	11° $\mathring{\text{A}}$ 47'21	
opposition	-11485 Jun 12 j 19:13	27° $\mathring{\text{M}}$ 53'56	-0°33'46				
min. Earth dist.	-11485 Jun 11 j 21:31	27° $\mathring{\text{M}}$ 55'27	28.90157 AU	conjunction	-11479 Dec 22 j 23:08	12° $\mathring{\text{A}}$ 23'13	-1°10'42
direct	-11485 Aug 29 j 00:06	26° $\mathring{\text{M}}$ 30'35		minimum elong	-11479 Dec 22 j 23:07	12° $\mathring{\text{A}}$ 23'13	1°10'48
evening set	-11485 Nov 23 j 12:45	28° $\mathring{\text{M}}$ 23'06		max. Earth dist.	-11479 Dec 23 j 19:40	12° $\mathring{\text{A}}$ 25'08	30.87397 AU
				morning rise	-11478 Jan 08 j 05:44	12° $\mathring{\text{A}}$ 59'23	
conjunction	-11485 Dec 09 j 13:51	28° $\mathring{\text{M}}$ 58'49	-0°34'39	retrograde	-11478 Apr 09 j 13:41	14° $\mathring{\text{A}}$ 57'39	
minimum elong	-11485 Dec 09 j 13:51	28° $\mathring{\text{M}}$ 58'49	0°34'36	opposition	-11478 Jun 27 j 24:00	13° $\mathring{\text{A}}$ 32'19	-1°18'43
max. Earth dist.	-11485 Dec 10 j 12:35	29° $\mathring{\text{M}}$ 00'57	30.89731 AU	min. Earth dist.	-11478 Jun 27 j 05:19	13° $\mathring{\text{A}}$ 33'38	28.87392 AU
morning rise	-11485 Dec 25 j 18:48	29° $\mathring{\text{M}}$ 34'54		direct	-11478 Sep 13 j 04:10	12° $\mathring{\text{A}}$ 08'38	
	-11484 Jan 06 j 13:34	0° $\mathring{\text{A}}$		evening set	-11478 Dec 09 j 09:20	14° $\mathring{\text{A}}$ 01'52	
retrograde	-11484 Mar 26 j 10:52	1° $\mathring{\text{A}}$ 33'22					
min. Earth dist.	-11484 Jun 13 j 09:53	0° $\mathring{\text{A}}$ 09'20	28.89406 AU	conjunction	-11478 Dec 25 j 13:02	14° $\mathring{\text{A}}$ 37'45	-1°16'24
opposition	-11484 Jun 14 j 06:22	0° $\mathring{\text{A}}$ 07'53	-0°40'25	minimum elong	-11478 Dec 25 j 13:01	14° $\mathring{\text{A}}$ 37'45	1°16'31
	-11484 Jun 18 j 22:25	30° $\mathring{\text{R}}$ $\mathring{\text{M}}$		max. Earth dist.	-11478 Dec 26 j 08:51	14° $\mathring{\text{A}}$ 39'36	30.87239 AU
direct	-11484 Aug 30 j 10:57	28° $\mathring{\text{M}}$ 44'27		morning rise	-11477 Jan 10 j 19:46	15° $\mathring{\text{A}}$ 13'55	
	-11484 Nov 07 j 07:56	0° $\mathring{\text{A}}$		retrograde	-11477 Apr 12 j 01:55	17° $\mathring{\text{A}}$ 12'09	
evening set	-11484 Nov 25 j 01:29	0° $\mathring{\text{A}}$ 37'01		opposition	-11477 Jun 30 j 11:00	15° $\mathring{\text{A}}$ 46'52	-1°24'45
				min. Earth dist.	-11477 Jun 29 j 18:11	15° $\mathring{\text{A}}$ 48'04	28.87224 AU
conjunction	-11484 Dec 11 j 03:13	1° $\mathring{\text{A}}$ 12'47	-0°40'50	direct	-11477 Sep 15 j 14:46	14° $\mathring{\text{A}}$ 23'10	
minimum elong	-11484 Dec 11 j 03:13	1° $\mathring{\text{A}}$ 12'47	0°40'49	evening set	-11477 Dec 11 j 23:09	16° $\mathring{\text{A}}$ 16'31	
max. Earth dist.	-11484 Dec 12 j 02:37	1° $\mathring{\text{A}}$ 14'58	30.89031 AU				
morning rise	-11484 Dec 27 j 08:24	1° $\mathring{\text{A}}$ 48'53		conjunction	-11477 Dec 28 j 03:12	16° $\mathring{\text{A}}$ 52'25	-1°21'59
retrograde	-11483 Mar 28 j 22:38	3° $\mathring{\text{A}}$ 47'17		minimum elong	-11477 Dec 28 j 03:11	16° $\mathring{\text{A}}$ 52'25	1°22'08
opposition	-11483 Jun 16 j 17:21	2° $\mathring{\text{A}}$ 21'47	-0°47'00	max. Earth dist.	-11477 Dec 28 j 22:19	16° $\mathring{\text{A}}$ 54'12	30.87038 AU
min. Earth dist.	-11483 Jun 15 j 20:25	2° $\mathring{\text{A}}$ 23'16	28.88765 AU	morning rise	-11476 Jan 13 j 10:02	17° $\mathring{\text{A}}$ 28'36	
direct	-11483 Sep 01 j 23:15	0° $\mathring{\text{A}}$ 58'17		retrograde	-11476 Apr 13 j 16:24	19° $\mathring{\text{A}}$ 26'47	
evening set	-11483 Nov 27 j 14:35	2° $\mathring{\text{A}}$ 50'56		opposition	-11476 Jul 01 j 21:48	18° $\mathring{\text{A}}$ 01'33	-1°30'39
				min. Earth dist.	-11476 Jul 01 j 04:58	18° $\mathring{\text{A}}$ 02'44	28.86985 AU
conjunction	-11483 Dec 13 j 16:34	3° $\mathring{\text{A}}$ 26'42	-0°46'58	direct	-11476 Sep 17 j 03:56	16° $\mathring{\text{A}}$ 37'47	
minimum elong	-11483 Dec 13 j 16:34	3° $\mathring{\text{A}}$ 26'42	0°46'57	evening set	-11476 Dec 13 j 13:12	18° $\mathring{\text{A}}$ 31'16	

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

conjunction	-11476 Dec 29 j 17:24	19° <u>♂</u> 07'11	-1°27'27	retrograde	-11469 Apr 30 j 07:39	5° <u>♂</u> 09'02	
minimum elong	-11476 Dec 29 j 17:23	19° <u>♂</u> 07'11	1°27'37	opposition	-11469 Jul 18 j 00:42	3° <u>♂</u> 43'57	-2°07'40
max. Earth dist.	-11476 Dec 30 j 10:42	19° <u>♂</u> 08'48	30.86743 AU	min. Earth dist.	-11469 Jul 17 j 13:06	3° <u>♂</u> 44'46	28.84976 AU
morning rise	-11475 Jan 15 j 00:27	19° <u>♂</u> 43'22		direct	-11469 Oct 03 j 11:50	2° <u>♂</u> 19'40	
retrograde	-11475 Apr 16 j 05:56	21° <u>♂</u> 41'30		evening set	-11469 Dec 30 j 16:21	4° <u>♂</u> 13'58	
opposition	-11475 Jul 04 j 08:49	20° <u>♂</u> 16'16	-1°36'25				
min. Earth dist.	-11475 Jul 03 j 17:49	20° <u>♂</u> 17'20	28.86655 AU	conjunction	-11468 Jan 15 j 21:38	4° <u>♂</u> 49'55	-2°01'31
direct	-11475 Sep 19 j 15:25	18° <u>♂</u> 52'27		minimum elong	-11468 Jan 15 j 21:36	4° <u>♂</u> 49'55	2°01'51
evening set	-11475 Dec 16 j 03:15	20° <u>♂</u> 46'02		max. Earth dist.	-11468 Jan 16 j 09:42	4° <u>♂</u> 51'02	30.84871 AU
				morning rise	-11468 Feb 01 j 04:37	5° <u>♂</u> 26'03	
conjunction	-11474 Jan 01 j 07:49	21° <u>♂</u> 21'58	-1°32'47	retrograde	-11468 May 01 j 18:48	7° <u>♂</u> 23'38	
minimum elong	-11474 Jan 01 j 07:48	21° <u>♂</u> 21'58	1°32'59	opposition	-11468 Jul 19 j 11:17	5° <u>♂</u> 58'36	-2°12'15
max. Earth dist.	-11474 Jan 02 j 00:54	21° <u>♂</u> 23'34	30.86368 AU	min. Earth dist.	-11468 Jul 19 j 01:20	5° <u>♂</u> 59'19	28.85089 AU
morning rise	-11474 Jan 17 j 14:48	21° <u>♂</u> 58'09		direct	-11468 Oct 04 j 22:03	4° <u>♂</u> 34'17	
retrograde	-11474 Apr 18 j 18:23	23° <u>♂</u> 56'12		evening set	-11467 Jan 01 j 06:46	6° <u>♂</u> 28'44	
opposition	-11474 Jul 06 j 19:30	22° <u>♂</u> 31'00	-1°42'03				
min. Earth dist.	-11474 Jul 06 j 04:43	22° <u>♂</u> 32'03	28.86248 AU	conjunction	-11467 Jan 17 j 12:12	7° <u>♂</u> 04'41	-2°05'42
direct	-11474 Sep 22 j 04:26	21° <u>♂</u> 07'06		minimum elong	-11467 Jan 17 j 12:11	7° <u>♂</u> 04'41	2°06'03
evening set	-11474 Dec 18 j 17:26	23° <u>♂</u> 00'47		max. Earth dist.	-11467 Jan 17 j 23:38	7° <u>♂</u> 05'45	30.85043 AU
				morning rise	-11467 Feb 02 j 19:07	7° <u>♂</u> 40'49	
conjunction	-11473 Jan 03 j 22:01	23° <u>♂</u> 36'43	-1°37'58	retrograde	-11467 May 04 j 08:30	9° <u>♂</u> 38'19	
minimum elong	-11473 Jan 03 j 22:00	23° <u>♂</u> 36'43	1°38'11	opposition	-11467 Jul 21 j 21:47	8° <u>♂</u> 13'23	-2°16'37
max. Earth dist.	-11473 Jan 04 j 13:06	23° <u>♂</u> 38'07	30.85943 AU	min. Earth dist.	-11467 Jul 21 j 11:39	8° <u>♂</u> 14'06	28.85307 AU
morning rise	-11473 Jan 20 j 05:13	24° <u>♂</u> 12'54		direct	-11467 Oct 07 j 11:42	6° <u>♂</u> 49'02	
retrograde	-11473 Apr 21 j 07:41	26° <u>♂</u> 10'52		evening set	-11466 Jan 03 j 21:26	8° <u>♂</u> 43'39	
opposition	-11473 Jul 09 j 06:19	24° <u>♂</u> 45'40	-1°47'31				
min. Earth dist.	-11473 Jul 08 j 16:45	24° <u>♂</u> 46'37	28.85836 AU	conjunction	-11466 Jan 20 j 02:46	9° <u>♂</u> 19'36	-2°09'42
direct	-11473 Sep 24 j 15:05	23° <u>♂</u> 21'41		minimum elong	-11466 Jan 20 j 02:45	9° <u>♂</u> 19'36	2°10'05
evening set	-11473 Dec 21 j 07:20	25° <u>♂</u> 15'28		max. Earth dist.	-11466 Jan 20 j 12:44	9° <u>♂</u> 20'32	30.85282 AU
				morning rise	-11466 Feb 05 j 09:37	9° <u>♂</u> 55'43	
conjunction	-11472 Jan 06 j 12:16	25° <u>♂</u> 51'25	-1°43'00	retrograde	-11466 May 06 j 21:14	11° <u>♂</u> 53'10	
minimum elong	-11472 Jan 06 j 12:15	25° <u>♂</u> 51'25	1°43'15	opposition	-11466 Jul 24 j 08:22	10° <u>♂</u> 28'18	-2°20'47
max. Earth dist.	-11472 Jan 07 j 03:44	25° <u>♂</u> 52'51	30.85531 AU	min. Earth dist.	-11466 Jul 24 j 00:02	10° <u>♂</u> 28'54	28.85584 AU
morning rise	-11472 Jan 22 j 19:21	26° <u>♂</u> 27'35		direct	-11466 Oct 09 j 23:14	9° <u>♂</u> 03'57	
retrograde	-11472 Apr 22 j 19:30	28° <u>♂</u> 25'28		evening set	-11465 Jan 06 j 12:03	10° <u>♂</u> 58'43	
opposition	-11472 Jul 10 j 17:00	27° <u>♂</u> 00'16	-1°52'49				
min. Earth dist.	-11472 Jul 10 j 04:08	27° <u>♂</u> 01'11	28.85452 AU	conjunction	-11465 Jan 22 j 17:33	11° <u>♂</u> 34'40	-2°13'30
direct	-11472 Sep 26 j 02:45	25° <u>♂</u> 36'12		minimum elong	-11465 Jan 22 j 17:32	11° <u>♂</u> 34'40	2°13'54
evening set	-11472 Dec 22 j 21:37	27° <u>♂</u> 30'05		max. Earth dist.	-11465 Jan 23 j 03:12	11° <u>♂</u> 35'34	30.85559 AU
				morning rise	-11465 Feb 08 j 00:07	12° <u>♂</u> 10'46	
conjunction	-11471 Jan 08 j 02:34	28° <u>♂</u> 06'02	-1°47'53	retrograde	-11465 May 09 j 10:26	14° <u>♂</u> 08'09	
minimum elong	-11471 Jan 08 j 02:33	28° <u>♂</u> 06'02	1°48'09	opposition	-11465 Jul 26 j 18:55	12° <u>♂</u> 43'22	-2°24'44
max. Earth dist.	-11471 Jan 08 j 16:12	28° <u>♂</u> 07'19	30.85184 AU	min. Earth dist.	-11465 Jul 26 j 10:55	12° <u>♂</u> 43'57	28.85853 AU
morning rise	-11471 Jan 24 j 09:49	28° <u>♂</u> 42'13		direct	-11465 Oct 12 j 12:11	11° <u>♂</u> 18'59	
	-11471 Mar 06 j 05:31	0° <u>♂</u>		evening set	-11464 Jan 09 j 02:49	13° <u>♂</u> 13'54	
retrograde	-11471 Apr 25 j 07:59	0° <u>♂</u> 40'00					
	-11471 Jun 15 j 05:26	30° <u>♂</u>		conjunction	-11464 Jan 25 j 08:11	13° <u>♂</u> 49'51	-2°17'06
opposition	-11471 Jul 13 j 03:31	29° <u>♂</u> 14'50	-1°57'57	minimum elong	-11464 Jan 25 j 08:09	13° <u>♂</u> 49'51	2°17'31
min. Earth dist.	-11471 Jul 12 j 15:04	29° <u>♂</u> 15'43	28.85168 AU	max. Earth dist.	-11464 Jan 25 j 15:33	13° <u>♂</u> 50'33	30.85795 AU
direct	-11471 Sep 28 j 13:14	27° <u>♂</u> 50'40		morning rise	-11464 Feb 10 j 14:47	14° <u>♂</u> 25'56	
evening set	-11471 Dec 25 j 11:51	29° <u>♂</u> 44'41			-11464 Feb 26 j 20:28	15° <u>♂</u>	
	-11470 Jan 01 j 10:53	0° <u>♂</u>		retrograde	-11464 May 11 j 00:40	16° <u>♂</u> 23'14	
					-11464 Jul 27 j 09:00	15° <u>♂</u>	
conjunction	-11470 Jan 10 j 17:01	0° <u>♂</u> 20'38	-1°52'36	opposition	-11464 Jul 28 j 05:38	14° <u>♂</u> 58'32	-2°28'28
minimum elong	-11470 Jan 10 j 17:00	0° <u>♂</u> 20'38	1°52'53	min. Earth dist.	-11464 Jul 27 j 23:10	14° <u>♂</u> 58'59	28.86066 AU
max. Earth dist.	-11470 Jan 11 j 06:46	0° <u>♂</u> 21'55	30.84938 AU	direct	-11464 Oct 13 j 23:48	13° <u>♂</u> 34'05	
morning rise	-11470 Jan 27 j 00:06	0° <u>♂</u> 56'48			-11464 Dec 27 j 21:45	15° <u>♂</u>	
retrograde	-11470 Apr 27 j 18:11	2° <u>♂</u> 54'31		evening set	-11463 Jan 10 j 17:41	15° <u>♂</u> 29'08	
opposition	-11470 Jul 15 j 14:11	1° <u>♂</u> 29'22	-2°02'54				
min. Earth dist.	-11470 Jul 15 j 02:52	1° <u>♂</u> 30'11	28.84997 AU	conjunction	-11463 Jan 26 j 23:13	16° <u>♂</u> 05'06	-2°20'29
direct	-11470 Oct 01 j 00:39	0° <u>♂</u> 05'09		minimum elong	-11463 Jan 26 j 23:12	16° <u>♂</u> 05'06	2°20'54
evening set	-11470 Dec 28 j 02:01	1° <u>♂</u> 59'18		max. Earth dist.	-11463 Jan 27 j 06:19	16° <u>♂</u> 05'46	30.85946 AU
				morning rise	-11463 Feb 12 j 05:28	16° <u>♂</u> 41'10	
conjunction	-11469 Jan 13 j 07:13	2° <u>♂</u> 35'15	-1°57'09	retrograde	-11463 May 13 j 12:49	18° <u>♂</u> 38'22	
minimum elong	-11469 Jan 13 j 07:12	2° <u>♂</u> 35'15	1°57'27	opposition	-11463 Jul 30 j 16:13	17° <u>♂</u> 13'43	-2°31'59
max. Earth dist.	-11469 Jan 13 j 19:44	2° <u>♂</u> 36'25	30.84837 AU	min. Earth dist.	-11463 Jul 30 j 10:58	17° <u>♂</u> 14'05	28.86165 AU
morning rise	-11469 Jan 29 j 14:19	3° <u>♂</u> 11'24		direct	-11463 Oct 16 j 12:45	15° <u>♂</u> 49'12	

Attention, astronomical year style is used: The year -11462 in astronomical counting style is the year 11463 BCE in historical counting style.

evening set	-11462 Jan 13 j 08:44	17° <u>M</u> .44'23		max. Earth dist.	-11456 Feb 13 j 05:50	1° <u>♂</u> 49'04	30.86158 AU
				morning rise	-11456 Feb 29 j 11:10	2° <u>♂</u> 25'01	
conjunction	-11462 Jan 29 j 14:05	18° <u>M</u> .20'20	-2°23'40	retrograde	-11456 May 28 j 22:59	4° <u>♂</u> 21'19	
minimum elong	-11462 Jan 29 j 14:04	18° <u>M</u> .20'20	2°24'07	opposition	-11456 Aug 14 j 17:28	2° <u>♂</u> 56'57	-2°49'48
max. Earth dist.	-11462 Jan 29 j 18:41	18° <u>M</u> .20'45	30.85993 AU	min. Earth dist.	-11456 Aug 14 j 18:03	2° <u>♂</u> 56'54	28.86560 AU
morning rise	-11462 Feb 14 j 20:19	18° <u>M</u> .56'22		direct	-11456 Nov 01 j 01:35	1° <u>♂</u> 31'52	
retrograde	-11462 May 16 j 01:30	20° <u>M</u> .53'27		evening set	-11455 Jan 29 j 16:05	3° <u>♂</u> 27'49	
opposition	-11462 Aug 02 j 02:52	19° <u>M</u> .28'50	-2°35'15				
min. Earth dist.	-11462 Aug 01 j 22:28	19° <u>M</u> .29'09	28.86177 AU	conjunction	-11455 Feb 14 j 21:00	4° <u>♂</u> 03'42	-2°39'31
direct	-11462 Oct 19 j 00:28	18° <u>M</u> .04'15		minimum elong	-11455 Feb 14 j 21:00	4° <u>♂</u> 03'42	2°40'03
evening set	-11461 Jan 15 j 23:25	19° <u>M</u> .59'31		max. Earth dist.	-11455 Feb 14 j 18:36	4° <u>♂</u> 03'29	30.86539 AU
				morning rise	-11455 Mar 03 j 01:39	4° <u>♂</u> 39'34	
conjunction	-11461 Feb 01 j 04:51	20° <u>M</u> .35'27	-2°26'37	retrograde	-11455 May 31 j 12:33	6° <u>♂</u> 35'47	
minimum elong	-11461 Feb 01 j 04:50	20° <u>M</u> .35'27	2°27'05	opposition	-11455 Aug 17 j 03:50	5° <u>♂</u> 11'29	-2°51'20
max. Earth dist.	-11461 Feb 01 j 09:10	20° <u>M</u> .35'52	30.85950 AU	min. Earth dist.	-11455 Aug 17 j 05:32	5° <u>♂</u> 11'22	28.87015 AU
morning rise	-11461 Feb 17 j 10:44	21° <u>M</u> .11'29		direct	-11455 Nov 03 j 13:31	3° <u>♂</u> 46'23	
retrograde	-11461 May 18 j 11:56	23° <u>M</u> .08'25		evening set	-11454 Feb 01 j 06:47	5° <u>♂</u> 42'29	
opposition	-11461 Aug 04 j 13:29	21° <u>M</u> .43'50	-2°38'18				
min. Earth dist.	-11461 Aug 04 j 10:42	21° <u>M</u> .44'02	28.86112 AU	conjunction	-11454 Feb 17 j 11:47	6° <u>♂</u> 18'22	-2°40'49
direct	-11461 Oct 21 j 12:22	20° <u>M</u> .19'09		minimum elong	-11454 Feb 17 j 11:46	6° <u>♂</u> 18'22	2°41'24
evening set	-11460 Jan 18 j 14:16	22° <u>M</u> .14'31		max. Earth dist.	-11454 Feb 17 j 09:37	6° <u>♂</u> 18'10	30.87044 AU
				morning rise	-11454 Mar 05 j 16:00	6° <u>♂</u> 54'13	
conjunction	-11460 Feb 03 j 19:36	22° <u>M</u> .50'27	-2°29'21	retrograde	-11454 Jun 03 j 00:28	8° <u>♂</u> 50'19	
minimum elong	-11460 Feb 03 j 19:35	22° <u>M</u> .50'27	2°29'50	opposition	-11454 Aug 19 j 14:18	7° <u>♂</u> 26'09	-2°52'36
max. Earth dist.	-11460 Feb 03 j 21:59	22° <u>M</u> .50'40	30.85876 AU	min. Earth dist.	-11454 Aug 19 j 16:51	7° <u>♂</u> 25'58	28.87559 AU
morning rise	-11460 Feb 20 j 01:25	23° <u>M</u> .26'27		direct	-11454 Nov 06 j 02:45	6° <u>♂</u> 01'02	
retrograde	-11460 May 20 j 00:59	25° <u>M</u> .23'15		evening set	-11453 Feb 03 j 21:30	7° <u>♂</u> 57'16	
opposition	-11460 Aug 05 j 23:48	23° <u>M</u> .58'41	-2°41'06				
min. Earth dist.	-11460 Aug 05 j 21:12	23° <u>M</u> .58'52	28.86042 AU	conjunction	-11453 Feb 20 j 02:13	8° <u>♂</u> 33'09	-2°41'54
direct	-11460 Oct 23 j 00:04	22° <u>M</u> .33'53		minimum elong	-11453 Feb 20 j 02:12	8° <u>♂</u> 33'09	2°42'28
evening set	-11459 Jan 20 j 05:09	24° <u>M</u> .29'21		max. Earth dist.	-11453 Feb 19 j 22:00	8° <u>♂</u> 32'45	30.87621 AU
				morning rise	-11453 Mar 08 j 06:21	9° <u>♂</u> 08'59	
conjunction	-11459 Feb 05 j 10:28	25° <u>M</u> .05'17	-2°31'51	retrograde	-11453 Jun 05 j 13:26	11° <u>♂</u> 05'00	
minimum elong	-11459 Feb 05 j 10:27	25° <u>M</u> .05'17	2°32'21	opposition	-11453 Aug 22 j 00:43	9° <u>♂</u> 40'56	-2°53'36
max. Earth dist.	-11459 Feb 05 j 12:10	25° <u>M</u> .05'26	30.85804 AU	min. Earth dist.	-11453 Aug 22 j 03:54	9° <u>♂</u> 40'42	28.88158 AU
morning rise	-11459 Feb 21 j 15:59	25° <u>M</u> .41'15		direct	-11453 Nov 08 j 14:28	8° <u>♂</u> 15'49	
retrograde	-11459 May 22 j 10:53	27° <u>M</u> .37'55		evening set	-11452 Feb 06 j 12:16	10° <u>♂</u> 12'11	
opposition	-11459 Aug 08 j 10:20	26° <u>M</u> .13'23	-2°43'39				
min. Earth dist.	-11459 Aug 08 j 09:36	26° <u>M</u> .13'26	28.86006 AU	conjunction	-11452 Feb 22 j 17:02	10° <u>♂</u> 48'04	-2°42'43
direct	-11459 Oct 25 j 11:06	24° <u>M</u> .48'29		minimum elong	-11452 Feb 22 j 17:02	10° <u>♂</u> 48'04	2°43'19
evening set	-11458 Jan 22 j 19:53	26° <u>M</u> .44'04		max. Earth dist.	-11452 Feb 22 j 12:41	10° <u>♂</u> 47'40	30.88205 AU
				morning rise	-11452 Mar 09 j 20:44	11° <u>♂</u> 23'53	
conjunction	-11458 Feb 08 j 01:08	27° <u>M</u> .19'58	-2°34'07	retrograde	-11452 Jun 07 j 00:38	13° <u>♂</u> 19'47	
minimum elong	-11458 Feb 08 j 01:07	27° <u>M</u> .19'58	2°34'39	opposition	-11452 Aug 23 j 11:10	11° <u>♂</u> 55'50	-2°54'21
max. Earth dist.	-11458 Feb 08 j 01:56	27° <u>M</u> .20'03	30.85804 AU	min. Earth dist.	-11452 Aug 23 j 16:07	11° <u>♂</u> 55'29	28.88726 AU
morning rise	-11458 Feb 24 j 06:26	27° <u>M</u> .55'55		direct	-11452 Nov 10 j 02:21	10° <u>♂</u> 30'42	
retrograde	-11458 May 24 j 23:01	29° <u>M</u> .52'27		evening set	-11451 Feb 08 j 03:16	12° <u>♂</u> 27'12	
opposition	-11458 Aug 10 j 20:39	28° <u>M</u> .27'57	-2°45'57				
min. Earth dist.	-11458 Aug 10 j 19:44	28° <u>M</u> .28'01	28.86058 AU	conjunction	-11451 Feb 24 j 07:48	13° <u>♂</u> 03'04	-2°43'17
direct	-11458 Oct 28 j 00:53	27° <u>M</u> .02'59		minimum elong	-11451 Feb 24 j 07:48	13° <u>♂</u> 03'04	2°43'52
evening set	-11457 Jan 25 j 10:40	28° <u>M</u> .58'40		max. Earth dist.	-11451 Feb 24 j 01:12	13° <u>♂</u> 02'27	30.88746 AU
				morning rise	-11451 Mar 12 j 11:22	13° <u>♂</u> 38'52	
conjunction	-11457 Feb 10 j 15:46	29° <u>M</u> .34'34	-2°36'09	retrograde	-11451 Jun 09 j 14:05	15° <u>♂</u> 34'39	
minimum elong	-11457 Feb 10 j 15:45	29° <u>M</u> .34'34	2°36'41	opposition	-11451 Aug 25 j 21:40	14° <u>♂</u> 10'47	-2°54'49
max. Earth dist.	-11457 Feb 10 j 15:22	29° <u>M</u> .34'32	30.85906 AU	min. Earth dist.	-11451 Aug 26 j 02:53	14° <u>♂</u> 10'25	28.89228 AU
	-11457 Feb 22 j 02:02	0° <u>♂</u>		direct	-11451 Nov 12 j 14:00	12° <u>♂</u> 45'36	
morning rise	-11457 Feb 26 j 20:50	0° <u>♂</u> 10'29		evening set	-11450 Feb 10 j 18:04	14° <u>♂</u> 42'13	
retrograde	-11457 May 27 j 10:32	2° <u>♂</u> 06'55					
opposition	-11457 Aug 13 j 07:06	0° <u>♂</u> 42'27	-2°48'00	conjunction	-11450 Feb 26 j 22:32	15° <u>♂</u> 18'05	-2°43'36
min. Earth dist.	-11457 Aug 13 j 07:41	0° <u>♂</u> 42'25	28.86244 AU	minimum elong	-11450 Feb 26 j 22:31	15° <u>♂</u> 18'05	2°44'13
	-11457 Sep 08 j 05:56	30° <u>♂</u>		max. Earth dist.	-11450 Feb 26 j 15:07	15° <u>♂</u> 17'23	30.89188 AU
direct	-11457 Oct 30 j 12:19	29° <u>M</u> .17'25		morning rise	-11450 Mar 15 j 01:41	15° <u>♂</u> 53'51	
	-11457 Dec 20 j 22:09	0° <u>♂</u>		retrograde	-11450 Jun 11 j 23:26	17° <u>♂</u> 49'31	
evening set	-11456 Jan 28 j 01:12	1° <u>♂</u> 13'14		opposition	-11450 Aug 28 j 08:20	16° <u>♂</u> 25'43	-2°55'02
				min. Earth dist.	-11450 Aug 28 j 15:39	16° <u>♂</u> 25'12	28.89631 AU
conjunction	-11456 Feb 13 j 06:23	1° <u>♂</u> 49'07	-2°37'57	direct	-11450 Nov 15 j 01:18	15° <u>♂</u> 00'29	
minimum elong	-11456 Feb 13 j 06:22	1° <u>♂</u> 49'07	2°38'30	evening set	-11449 Feb 13 j 08:51	16° <u>♂</u> 57'11	

Attention, astronomical year style is used: The year -11449 in astronomical counting style is the year 11450 BCE in historical counting style.

conjunction	-11449 Mar 01 j 13:11	17° $\mathring{\text{A}}$ 33'02	-2°43'41	retrograde	-11443 Jun 27 j 07:26	3° $\mathring{\text{Z}}$ 29'13	
minimum elong	-11449 Mar 01 j 13:11	17° $\mathring{\text{A}}$ 33'02	2°44'18	opposition	-11443 Sep 12 j 09:25	2° $\mathring{\text{Z}}$ 05'45	-2°49'13
max. Earth dist.	-11449 Mar 01 j 04:20	17° $\mathring{\text{A}}$ 32'12	30.89557 AU	min. Earth dist.	-11443 Sep 12 j 22:03	2° $\mathring{\text{Z}}$ 04'51	28.92631 AU
morning rise	-11449 Mar 17 j 16:08	18° $\mathring{\text{A}}$ 08'47		direct	-11443 Nov 30 j 19:54	0° $\mathring{\text{Z}}$ 40'05	
retrograde	-11449 Jun 14 j 10:56	20° $\mathring{\text{A}}$ 04'18		evening set	-11442 Mar 01 j 13:21	2° $\mathring{\text{Z}}$ 37'11	
opposition	-11449 Aug 30 j 18:43	18° $\mathring{\text{A}}$ 40'33	-2°54'59				
min. Earth dist.	-11449 Aug 31 j 02:12	18° $\mathring{\text{A}}$ 40'01	28.89958 AU	conjunction	-11442 Mar 17 j 16:42	3° $\mathring{\text{Z}}$ 12'57	-2°37'23
direct	-11449 Nov 17 j 14:55	17° $\mathring{\text{A}}$ 15'14		minimum elong	-11442 Mar 17 j 16:42	3° $\mathring{\text{Z}}$ 12'57	2°38'02
evening set	-11448 Feb 15 j 23:31	19° $\mathring{\text{A}}$ 12'00		max. Earth dist.	-11442 Mar 17 j 01:40	3° $\mathring{\text{Z}}$ 11'33	30.92811 AU
				morning rise	-11442 Apr 02 j 17:47	3° $\mathring{\text{Z}}$ 48'31	
conjunction	-11448 Mar 03 j 03:44	19° $\mathring{\text{A}}$ 47'50	-2°43'31	retrograde	-11442 Jun 29 j 20:02	5° $\mathring{\text{Z}}$ 42'58	
minimum elong	-11448 Mar 03 j 03:44	19° $\mathring{\text{A}}$ 47'50	2°44'09	opposition	-11442 Sep 14 j 19:50	4° $\mathring{\text{Z}}$ 19'36	-2°47'21
max. Earth dist.	-11448 Mar 02 j 17:29	19° $\mathring{\text{A}}$ 46'53	30.89853 AU	min. Earth dist.	-11442 Sep 15 j 08:08	4° $\mathring{\text{Z}}$ 18'43	28.93486 AU
morning rise	-11448 Mar 19 j 06:26	20° $\mathring{\text{A}}$ 23'34		direct	-11442 Dec 03 j 08:15	2° $\mathring{\text{Z}}$ 53'55	
retrograde	-11448 Jun 15 j 21:42	22° $\mathring{\text{A}}$ 18'56		evening set	-11441 Mar 04 j 03:24	4° $\mathring{\text{Z}}$ 51'07	
opposition	-11448 Sep 01 j 05:16	20° $\mathring{\text{A}}$ 55'13	-2°54'41				
min. Earth dist.	-11448 Sep 01 j 14:36	20° $\mathring{\text{A}}$ 54'33	28.90244 AU	conjunction	-11441 Mar 20 j 06:42	5° $\mathring{\text{Z}}$ 26'52	-2°35'31
direct	-11448 Nov 19 j 02:01	19° $\mathring{\text{A}}$ 29'49		minimum elong	-11441 Mar 20 j 06:43	5° $\mathring{\text{Z}}$ 26'52	2°36'09
evening set	-11447 Feb 17 j 14:05	21° $\mathring{\text{A}}$ 26'39		max. Earth dist.	-11441 Mar 19 j 15:37	5° $\mathring{\text{Z}}$ 25'27	30.93715 AU
				morning rise	-11441 Apr 05 j 07:23	6° $\mathring{\text{Z}}$ 02'24	
conjunction	-11447 Mar 05 j 18:16	22° $\mathring{\text{A}}$ 02'28	-2°43'06	retrograde	-11441 Jul 02 j 05:40	7° $\mathring{\text{Z}}$ 56'45	
minimum elong	-11447 Mar 05 j 18:16	22° $\mathring{\text{A}}$ 02'28	2°43'43	opposition	-11441 Sep 17 j 06:20	6° $\mathring{\text{Z}}$ 33'29	-2°45'13
max. Earth dist.	-11447 Mar 05 j 07:30	22° $\mathring{\text{A}}$ 01'27	30.90136 AU	min. Earth dist.	-11441 Sep 17 j 20:24	6° $\mathring{\text{Z}}$ 32'29	28.94424 AU
morning rise	-11447 Mar 21 j 20:39	22° $\mathring{\text{A}}$ 38'09		direct	-11441 Dec 05 j 19:23	5° $\mathring{\text{Z}}$ 07'49	
retrograde	-11447 Jun 18 j 08:53	24° $\mathring{\text{A}}$ 33'21		evening set	-11440 Mar 05 j 17:31	7° $\mathring{\text{Z}}$ 05'06	
opposition	-11447 Sep 03 j 15:37	23° $\mathring{\text{A}}$ 09'40	-2°54'06				
min. Earth dist.	-11447 Sep 04 j 01:11	23° $\mathring{\text{A}}$ 08'59	28.90525 AU	conjunction	-11440 Mar 21 j 20:38	7° $\mathring{\text{Z}}$ 40'51	-2°33'25
direct	-11447 Nov 21 j 15:55	21° $\mathring{\text{A}}$ 44'11		minimum elong	-11440 Mar 21 j 20:39	7° $\mathring{\text{Z}}$ 40'51	2°34'04
evening set	-11446 Feb 20 j 04:38	23° $\mathring{\text{A}}$ 41'04		max. Earth dist.	-11440 Mar 21 j 04:24	7° $\mathring{\text{Z}}$ 39'20	30.94682 AU
				morning rise	-11440 Apr 06 j 21:09	8° $\mathring{\text{Z}}$ 16'22	
conjunction	-11446 Mar 08 j 08:33	24° $\mathring{\text{A}}$ 16'52	-2°42'27	retrograde	-11440 Jul 03 j 17:23	10° $\mathring{\text{Z}}$ 10'35	
minimum elong	-11446 Mar 08 j 08:33	24° $\mathring{\text{A}}$ 16'52	2°43'05	opposition	-11440 Sep 18 j 16:51	8° $\mathring{\text{Z}}$ 47'27	-2°42'51
max. Earth dist.	-11446 Mar 07 j 20:01	24° $\mathring{\text{A}}$ 15'42	30.90442 AU	min. Earth dist.	-11440 Sep 19 j 06:52	8° $\mathring{\text{Z}}$ 46'28	28.95376 AU
morning rise	-11446 Mar 24 j 10:44	24° $\mathring{\text{A}}$ 52'32		direct	-11440 Dec 07 j 08:08	7° $\mathring{\text{Z}}$ 21'48	
retrograde	-11446 Jun 20 j 21:08	26° $\mathring{\text{A}}$ 47'34		evening set	-11439 Mar 08 j 07:41	9° $\mathring{\text{Z}}$ 19'09	
opposition	-11446 Sep 06 j 02:06	25° $\mathring{\text{A}}$ 23'55	-2°53'16				
min. Earth dist.	-11446 Sep 06 j 12:41	25° $\mathring{\text{A}}$ 23'10	28.90878 AU	conjunction	-11439 Mar 24 j 10:37	9° $\mathring{\text{Z}}$ 54'54	-2°31'05
direct	-11446 Nov 24 j 04:38	23° $\mathring{\text{A}}$ 58'22		minimum elong	-11439 Mar 24 j 10:37	9° $\mathring{\text{Z}}$ 54'54	2°31'42
evening set	-11445 Feb 22 j 18:43	25° $\mathring{\text{A}}$ 55'18		max. Earth dist.	-11439 Mar 23 j 17:21	9° $\mathring{\text{Z}}$ 53'17	30.95614 AU
				morning rise	-11439 Apr 09 j 10:46	10° $\mathring{\text{Z}}$ 30'24	
conjunction	-11445 Mar 10 j 22:39	26° $\mathring{\text{A}}$ 31'05	-2°41'33	retrograde	-11439 Jul 06 j 04:03	12° $\mathring{\text{Z}}$ 24'31	
minimum elong	-11445 Mar 10 j 22:39	26° $\mathring{\text{A}}$ 31'05	2°42'10	opposition	-11439 Sep 21 j 03:35	11° $\mathring{\text{Z}}$ 01'29	-2°40'14
max. Earth dist.	-11445 Mar 10 j 10:30	26° $\mathring{\text{A}}$ 29'57	30.90839 AU	min. Earth dist.	-11439 Sep 21 j 19:20	11° $\mathring{\text{Z}}$ 00'22	28.96285 AU
morning rise	-11445 Mar 27 j 00:27	27° $\mathring{\text{A}}$ 06'43		direct	-11439 Dec 09 j 18:27	9° $\mathring{\text{Z}}$ 35'50	
retrograde	-11445 Jun 23 j 07:51	29° $\mathring{\text{A}}$ 01'36		evening set	-11438 Mar 10 j 21:44	11° $\mathring{\text{Z}}$ 33'15	
opposition	-11445 Sep 08 j 12:34	27° $\mathring{\text{A}}$ 37'59	-2°52'11	max. Earth dist.	-11438 Mar 26 j 06:41	12° $\mathring{\text{Z}}$ 07'19	30.96490 AU
min. Earth dist.	-11445 Sep 08 j 23:49	27° $\mathring{\text{A}}$ 37'11	28.91321 AU				
direct	-11445 Nov 26 j 18:43	26° $\mathring{\text{A}}$ 12'22		conjunction	-11438 Mar 27 j 00:33	12° $\mathring{\text{Z}}$ 08'59	-2°28'31
evening set	-11444 Feb 25 j 09:03	28° $\mathring{\text{A}}$ 09'21		minimum elong	-11438 Mar 27 j 00:34	12° $\mathring{\text{Z}}$ 08'59	2°29'09
				morning rise	-11438 Apr 12 j 00:24	12° $\mathring{\text{Z}}$ 44'28	
conjunction	-11444 Mar 12 j 12:41	28° $\mathring{\text{A}}$ 45'07	-2°40'24	retrograde	-11438 Jul 08 j 14:57	14° $\mathring{\text{Z}}$ 38'28	
minimum elong	-11444 Mar 12 j 12:41	28° $\mathring{\text{A}}$ 45'07	2°41'02	opposition	-11438 Sep 23 j 14:19	13° $\mathring{\text{Z}}$ 15'31	-2°37'22
max. Earth dist.	-11444 Mar 11 j 22:46	28° $\mathring{\text{A}}$ 43'50	30.91354 AU	min. Earth dist.	-11438 Sep 24 j 06:20	13° $\mathring{\text{Z}}$ 14'23	28.97102 AU
morning rise	-11444 Mar 28 j 14:22	29° $\mathring{\text{A}}$ 20'44		direct	-11438 Dec 12 j 08:12	11° $\mathring{\text{Z}}$ 49'52	
	-11444 Apr 16 j 11:38	0° $\mathring{\text{Z}}$		evening set	-11437 Mar 13 j 11:40	13° $\mathring{\text{Z}}$ 47'20	
retrograde	-11444 Jun 24 j 20:23	1° $\mathring{\text{Z}}$ 15'28					
	-11444 Sep 05 j 04:42	30° $\mathring{\text{R}}$ $\mathring{\text{A}}$		conjunction	-11437 Mar 29 j 14:12	14° $\mathring{\text{Z}}$ 23'02	-2°25'44
opposition	-11444 Sep 09 j 22:51	29° $\mathring{\text{A}}$ 51'54	-2°50'50	minimum elong	-11437 Mar 29 j 14:13	14° $\mathring{\text{Z}}$ 23'03	2°26'21
min. Earth dist.	-11444 Sep 10 j 10:19	29° $\mathring{\text{A}}$ 51'05	28.91909 AU	max. Earth dist.	-11437 Mar 28 j 18:31	14° $\mathring{\text{Z}}$ 21'12	30.97264 AU
direct	-11444 Nov 28 j 06:50	28° $\mathring{\text{A}}$ 26'14		morning rise	-11437 Apr 14 j 13:51	14° $\mathring{\text{Z}}$ 58'31	
	-11443 Feb 15 j 23:57	0° $\mathring{\text{Z}}$		retrograde	-11437 Jul 11 j 02:47	16° $\mathring{\text{Z}}$ 52'24	
evening set	-11443 Feb 26 j 23:13	0° $\mathring{\text{Z}}$ 23'18		opposition	-11437 Sep 26 j 01:04	15° $\mathring{\text{Z}}$ 29'30	-2°34'17
				min. Earth dist.	-11437 Sep 26 j 18:17	15° $\mathring{\text{Z}}$ 28'18	28.97829 AU
conjunction	-11443 Mar 15 j 02:52	0° $\mathring{\text{Z}}$ 59'04	-2°39'01	direct	-11437 Dec 14 j 20:28	14° $\mathring{\text{Z}}$ 03'50	
minimum elong	-11443 Mar 15 j 02:53	0° $\mathring{\text{Z}}$ 59'04	2°39'39	evening set	-11436 Mar 15 j 01:30	16° $\mathring{\text{Z}}$ 01'19	
max. Earth dist.	-11443 Mar 14 j 13:24	0° $\mathring{\text{Z}}$ 57'48	30.92010 AU	max. Earth dist.	-11436 Mar 30 j 08:19	16° $\mathring{\text{Z}}$ 35'11	30.97949 AU
morning rise	-11443 Mar 31 j 04:06	1° $\mathring{\text{Z}}$ 34'39					

Attention, astronomical year style is used: The year -11436 in astronomical counting style is the year 11437 BCE in historical counting style.

conjunction	-11436 Mar 31 j 04:02	16° $\overline{3}$ 37'02	-2°22'44	opposition	-11430 Oct 11 j 04:15	1° \approx 03'27	-2°06'39
minimum elong	-11436 Mar 31 j 04:03	16° $\overline{3}$ 37'02	2°23'22	min. Earth dist.	-11430 Oct 12 j 01:20	1° \approx 01'58	29.02795 AU
morning rise	-11436 Apr 16 j 03:17	17° $\overline{3}$ 12'28			-11430 Nov 22 j 16:06	30° \overline{R} $\overline{3}$	
retrograde	-11436 Jul 12 j 13:09	19° $\overline{3}$ 06'13		direct	-11430 Dec 30 j 13:08	29° $\overline{3}$ 37'39	
opposition	-11436 Sep 27 j 11:44	17° $\overline{3}$ 43'23	-2°30'58		-11429 Feb 05 j 23:37	0° \approx	
min. Earth dist.	-11436 Sep 28 j 05:57	17° $\overline{3}$ 42'06	28.98458 AU	evening set	-11429 Mar 31 j 22:53	1° \approx 35'11	
direct	-11436 Dec 16 j 10:26	16° $\overline{3}$ 17'41					
evening set	-11435 Mar 17 j 15:26	18° $\overline{3}$ 15'12		conjunction	-11429 Apr 16 j 23:52	2° \approx 10'47	-1°56'12
				minimum elong	-11429 Apr 16 j 23:53	2° \approx 10'47	1°56'46
conjunction	-11435 Apr 02 j 17:36	18° $\overline{3}$ 50'53	-2°19'32	max. Earth dist.	-11429 Apr 16 j 00:43	2° \approx 08'37	31.03161 AU
minimum elong	-11435 Apr 02 j 17:36	18° $\overline{3}$ 50'53	2°20'09	morning rise	-11429 May 02 j 21:05	2° \approx 46'04	
max. Earth dist.	-11435 Apr 01 j 19:57	18° $\overline{3}$ 48'52	30.98562 AU	retrograde	-11429 Jul 28 j 16:33	4° \approx 38'56	
morning rise	-11435 Apr 18 j 16:42	19° $\overline{3}$ 26'18		opposition	-11429 Oct 13 j 15:02	3° \approx 16'31	-2°01'54
retrograde	-11435 Jul 15 j 01:40	21° $\overline{3}$ 19'54		min. Earth dist.	-11429 Oct 14 j 11:54	3° \approx 15'03	29.03831 AU
opposition	-11435 Sep 29 j 22:27	19° $\overline{3}$ 57'07	-2°27'26	direct	-11428 Jan 02 j 02:48	1° \approx 50'45	
min. Earth dist.	-11435 Sep 30 j 17:00	19° $\overline{3}$ 55'49	28.99052 AU	evening set	-11428 Apr 02 j 11:56	3° \approx 48'18	
direct	-11435 Dec 18 j 22:56	18° $\overline{3}$ 31'22					
evening set	-11434 Mar 20 j 04:51	20° $\overline{3}$ 28'53		conjunction	-11428 Apr 18 j 12:35	4° \approx 23'53	-1°51'41
max. Earth dist.	-11434 Apr 04 j 09:51	21° $\overline{3}$ 02'36	30.99150 AU	minimum elong	-11428 Apr 18 j 12:36	4° \approx 23'54	1°52'14
				max. Earth dist.	-11428 Apr 17 j 12:18	4° \approx 21'37	31.04228 AU
conjunction	-11434 Apr 05 j 06:59	21° $\overline{3}$ 04'34	-2°16'08	morning rise	-11428 May 04 j 09:31	4° \approx 59'09	
minimum elong	-11434 Apr 05 j 07:00	21° $\overline{3}$ 04'34	2°16'45	retrograde	-11428 Jul 30 j 03:31	6° \approx 51'56	
morning rise	-11434 Apr 21 j 05:37	21° $\overline{3}$ 39'57		opposition	-11428 Oct 15 j 01:55	5° \approx 29'36	-1°56'58
retrograde	-11434 Jul 17 j 12:29	23° $\overline{3}$ 33'25		min. Earth dist.	-11428 Oct 15 j 23:31	5° \approx 28'06	29.04905 AU
opposition	-11434 Oct 02 j 09:16	22° $\overline{3}$ 10'40	-2°23'41	direct	-11427 Jan 03 j 13:33	4° \approx 03'53	
min. Earth dist.	-11434 Oct 03 j 05:04	22° $\overline{3}$ 09'16	28.99635 AU	evening set	-11427 Apr 05 j 00:53	6° \approx 01'27	
direct	-11434 Dec 21 j 13:08	20° $\overline{3}$ 44'53		max. Earth dist.	-11427 Apr 20 j 01:32	6° \approx 34'48	31.05299 AU
evening set	-11433 Mar 22 j 18:21	22° $\overline{3}$ 42'25					
				conjunction	-11427 Apr 21 j 01:22	6° \approx 37'02	-1°46'59
conjunction	-11433 Apr 07 j 20:08	23° $\overline{3}$ 18'04	-2°12'31	minimum elong	-11427 Apr 21 j 01:23	6° \approx 37'02	1°47'30
minimum elong	-11433 Apr 07 j 20:09	23° $\overline{3}$ 18'04	2°13'07	morning rise	-11427 May 06 j 21:50	7° \approx 12'16	
max. Earth dist.	-11433 Apr 06 j 21:30	23° $\overline{3}$ 15'57	30.99766 AU	retrograde	-11427 Aug 01 j 13:43	9° \approx 04'59	
morning rise	-11433 Apr 23 j 18:40	23° $\overline{3}$ 53'26		opposition	-11427 Oct 17 j 13:02	7° \approx 42'43	-1°51'51
retrograde	-11433 Jul 20 j 00:28	25° $\overline{3}$ 46'45		min. Earth dist.	-11427 Oct 18 j 11:20	7° \approx 41'10	29.05934 AU
opposition	-11433 Oct 04 j 19:47	24° $\overline{3}$ 24'02	-2°19'44	direct	-11426 Jan 06 j 02:22	6° \approx 17'02	
min. Earth dist.	-11433 Oct 05 j 15:09	24° $\overline{3}$ 22'41	29.00275 AU	evening set	-11426 Apr 07 j 13:46	8° \approx 14'37	
direct	-11433 Dec 24 j 02:25	22° $\overline{3}$ 58'14					
evening set	-11432 Mar 24 j 07:39	24° $\overline{3}$ 55'45		conjunction	-11426 Apr 23 j 13:47	8° \approx 50'10	-1°42'07
max. Earth dist.	-11432 Apr 08 j 10:59	25° $\overline{3}$ 29'19	31.00445 AU	minimum elong	-11426 Apr 23 j 13:48	8° \approx 50'10	1°42'39
				max. Earth dist.	-11426 Apr 22 j 12:23	8° \approx 47'47	31.06299 AU
conjunction	-11432 Apr 09 j 09:21	25° $\overline{3}$ 31'24	-2°08'43	morning rise	-11426 May 09 j 10:03	9° \approx 25'23	
minimum elong	-11432 Apr 09 j 09:22	25° $\overline{3}$ 31'24	2°09'19	retrograde	-11426 Aug 04 j 02:01	11° \approx 18'01	
morning rise	-11432 Apr 25 j 07:26	26° $\overline{3}$ 06'45		opposition	-11426 Oct 20 j 00:08	9° \approx 55'49	-1°46'35
retrograde	-11432 Jul 21 j 09:42	27° $\overline{3}$ 59'55		min. Earth dist.	-11426 Oct 20 j 22:35	9° \approx 54'16	29.06885 AU
opposition	-11432 Oct 06 j 06:38	26° $\overline{3}$ 37'16	-2°15'34	direct	-11425 Jan 08 j 14:43	8° \approx 30'09	
min. Earth dist.	-11432 Oct 07 j 03:22	26° $\overline{3}$ 35'49	29.00998 AU	evening set	-11425 Apr 10 j 02:34	10° \approx 27'43	
direct	-11432 Dec 25 j 14:25	25° $\overline{3}$ 11'27		max. Earth dist.	-11425 Apr 25 j 01:32	11° \approx 00'56	31.07192 AU
evening set	-11431 Mar 26 j 20:53	27° $\overline{3}$ 08'58					
				conjunction	-11425 Apr 26 j 02:27	11° \approx 03'15	-1°37'07
conjunction	-11431 Apr 11 j 22:16	27° $\overline{3}$ 44'36	-2°04'44	minimum elong	-11425 Apr 26 j 02:28	11° \approx 03'15	1°37'37
minimum elong	-11431 Apr 11 j 22:17	27° $\overline{3}$ 44'36	2°05'19	morning rise	-11425 May 11 j 22:12	11° \approx 38'27	
max. Earth dist.	-11431 Apr 10 j 23:12	27° $\overline{3}$ 42'26	31.01235 AU	retrograde	-11425 Aug 06 j 12:37	13° \approx 30'59	
morning rise	-11431 Apr 27 j 20:08	28° $\overline{3}$ 19'55		opposition	-11425 Oct 22 j 11:15	12° \approx 08'51	-1°41'10
	-11431 Jun 26 j 10:25	0° \approx		min. Earth dist.	-11425 Oct 23 j 11:03	12° \approx 07'11	29.07707 AU
retrograde	-11431 Jul 23 j 20:53	0° \approx 12'58		direct	-11424 Jan 11 j 04:55	10° \approx 43'11	
	-11431 Aug 20 j 13:39	30° \overline{R} $\overline{3}$		evening set	-11424 Apr 11 j 15:28	12° \approx 40'44	
opposition	-11431 Oct 08 j 17:22	28° $\overline{3}$ 50'23	-2°11'12				
min. Earth dist.	-11431 Oct 09 j 13:24	28° $\overline{3}$ 48'58	29.01833 AU	conjunction	-11424 Apr 27 j 14:53	13° \approx 16'14	-1°31'58
direct	-11431 Dec 28 j 03:17	27° $\overline{3}$ 24'33		minimum elong	-11424 Apr 27 j 14:54	13° \approx 16'14	1°32'29
evening set	-11430 Mar 29 j 10:01	29° $\overline{3}$ 22'05		max. Earth dist.	-11424 Apr 26 j 12:20	13° \approx 13'45	31.07966 AU
max. Earth dist.	-11430 Apr 13 j 11:56	29° $\overline{3}$ 55'32	31.02137 AU	morning rise	-11424 May 13 j 10:27	13° \approx 51'24	
					-11424 Jun 17 j 15:50	15° \approx	
conjunction	-11430 Apr 14 j 11:11	29° $\overline{3}$ 57'42	-2°00'34	retrograde	-11424 Aug 08 j 00:30	15° \approx 43'51	
minimum elong	-11430 Apr 14 j 11:12	29° $\overline{3}$ 57'42	2°01'09		-11424 Sep 30 j 02:26	15° \overline{R} \approx	
	-11430 Apr 15 j 11:49	0° \approx		opposition	-11424 Oct 23 j 22:23	14° \approx 21'44	-1°35'36
morning rise	-11430 Apr 30 j 08:40	0° \approx 33'00		min. Earth dist.	-11424 Oct 24 j 21:46	14° \approx 20'06	29.08412 AU
retrograde	-11430 Jul 26 j 06:58	2° \approx 25'58		direct	-11423 Jan 12 j 18:27	12° \approx 56'03	

Attention, astronomical year style is used: The year -11423 in astronomical counting style is the year 11424 BCE in historical counting style.

evening set	-11423 Apr 14 j 04:02	14°53'34				-11417 Jun 19 j 14:52	0°	
	-11423 Apr 17 j 02:32	15°		retrograde		-11417 Aug 23 j 23:09	1°	08'48
max. Earth dist.	-11423 Apr 29 j 00:55	15°26'35	31.08618 AU			-11417 Nov 01 j 05:23	30°	
				opposition		-11417 Nov 09 j 04:53	29°	46'49 -0°53'22
conjunction	-11423 Apr 30 j 03:15	15°29'03	-1°26'42	min. Earth dist.		-11417 Nov 10 j 05:00	29°	45'09 29.13066 AU
minimum elong	-11423 Apr 30 j 03:15	15°29'03	1°27'11	direct		-11416 Jan 29 j 07:58	28°	21'13
morning rise	-11423 May 15 j 22:16	16°04'11				-11416 Apr 21 j 02:03	0°	
retrograde	-11423 Aug 10 j 10:12	17°56'32		evening set		-11416 Apr 29 j 16:20	0°	18'26
opposition	-11423 Oct 26 j 09:42	16°34'26	-1°29'54	max. Earth dist.		-11416 May 14 j 11:08	0°	51'19 31.13487 AU
min. Earth dist.	-11423 Oct 27 j 10:33	16°32'42	29.09015 AU					
direct	-11422 Jan 15 j 07:14	15°08'45		conjunction		-11416 May 15 j 12:51	0°	53'44 -0°46'51
evening set	-11422 Apr 16 j 16:33	17°06'12		minimum elong		-11416 May 15 j 12:51	0°	53'44 0°47'13
				morning rise		-11416 May 31 j 05:03	1°	28'40
conjunction	-11422 May 02 j 15:20	17°41'39	-1°21'19	retrograde		-11416 Aug 25 j 09:40	3°	20'37
minimum elong	-11422 May 02 j 15:21	17°41'39	1°21'47	opposition		-11416 Nov 10 j 16:23	1°	58'42 -0°46'57
max. Earth dist.	-11422 May 01 j 12:16	17°39'07	31.09204 AU	min. Earth dist.		-11416 Nov 11 j 17:12	1°	57'00 29.14020 AU
morning rise	-11422 May 18 j 10:07	18°16'45		direct		-11415 Jan 30 j 21:12	0°	33'12
retrograde	-11422 Aug 12 j 21:22	20°09'00		evening set		-11415 May 02 j 04:04	2°	30'24
opposition	-11422 Oct 28 j 20:46	18°46'54	-1°24'04					
min. Earth dist.	-11422 Oct 29 j 21:01	18°45'13	29.09566 AU	conjunction		-11415 May 17 j 23:56	3°	05'39 -0°40'50
direct	-11421 Jan 17 j 21:01	17°21'12		minimum elong		-11415 May 17 j 23:57	3°	05'39 0°41'09
evening set	-11421 Apr 19 j 04:46	19°18'36		max. Earth dist.		-11415 May 16 j 21:24	3°	03'10 31.14461 AU
max. Earth dist.	-11421 May 04 j 00:07	19°51'30	31.09748 AU	morning rise		-11415 Jun 02 j 15:51	3°	40'34
				retrograde		-11415 Aug 27 j 21:35	5°	32'32
conjunction	-11421 May 05 j 03:15	19°54'02	-1°15'48	opposition		-11415 Nov 13 j 03:50	4°	10'40 -0°40'28
minimum elong	-11421 May 05 j 03:16	19°54'02	1°16'15	min. Earth dist.		-11415 Nov 14 j 03:40	4°	09'02 29.14983 AU
morning rise	-11421 May 20 j 21:37	20°29'06		direct		-11414 Feb 02 j 09:29	2°	45'14
retrograde	-11421 Aug 15 j 06:57	22°21'16		evening set		-11414 May 04 j 15:39	4°	42'25
opposition	-11421 Oct 31 j 08:00	20°59'10	-1°18'08	max. Earth dist.		-11414 May 19 j 09:21	5°	15'14 31.15400 AU
min. Earth dist.	-11421 Nov 01 j 09:14	20°57'25	29.10113 AU					
direct	-11420 Jan 20 j 08:09	19°33'27		conjunction		-11414 May 20 j 11:11	5°	17'39 -0°34'44
evening set	-11420 Apr 20 j 16:54	21°30'47		minimum elong		-11414 May 20 j 11:11	5°	17'39 0°35'03
				morning rise		-11414 Jun 05 j 02:29	5°	52'32
conjunction	-11420 May 06 j 15:02	22°06'11	-1°10'12	retrograde		-11414 Aug 30 j 07:53	7°	44'30
minimum elong	-11420 May 06 j 15:03	22°06'12	1°10'37	opposition		-11414 Nov 15 j 15:26	6°	22'42 -0°33'56
max. Earth dist.	-11420 May 05 j 12:14	22°03'41	31.10318 AU	min. Earth dist.		-11414 Nov 16 j 16:26	6°	20'59 29.15892 AU
morning rise	-11420 May 22 j 08:59	22°41'14		direct		-11413 Feb 04 j 22:04	4°	57'20
retrograde	-11420 Aug 16 j 15:47	24°33'19		evening set		-11413 May 07 j 03:15	6°	54'29
opposition	-11420 Nov 01 j 19:08	23°11'14	-1°12'05					
min. Earth dist.	-11420 Nov 02 j 19:49	23°09'31	29.10694 AU	conjunction		-11413 May 22 j 22:13	7°	29'41 -0°28'36
direct	-11419 Jan 21 j 21:55	21°45'31		minimum elong		-11413 May 22 j 22:13	7°	29'41 0°28'53
evening set	-11419 Apr 23 j 05:01	23°42'48		max. Earth dist.		-11413 May 21 j 19:53	7°	27'13 31.16269 AU
max. Earth dist.	-11419 May 07 j 23:17	24°15'37	31.10947 AU	morning rise		-11413 Jun 07 j 13:11	8°	04'32
				retrograde		-11413 Sep 01 j 19:48	9°	56'30
conjunction	-11419 May 09 j 02:39	24°18'11	-1°04'30	opposition		-11413 Nov 18 j 03:01	8°	34'44 -0°27'21
minimum elong	-11419 May 09 j 02:39	24°18'11	1°04'54	min. Earth dist.		-11413 Nov 19 j 03:14	8°	33'04 29.16693 AU
morning rise	-11419 May 24 j 20:14	24°53'12		direct		-11412 Feb 07 j 12:15	7°	09'24
retrograde	-11419 Aug 19 j 02:05	26°45'13		evening set		-11412 May 08 j 14:49	9°	06'31
opposition	-11419 Nov 04 j 06:27	25°23'09	-1°05'56	max. Earth dist.		-11412 May 23 j 06:53	9°	39'13 31.17006 AU
min. Earth dist.	-11419 Nov 05 j 07:09	25°21'26	29.11379 AU					
direct	-11418 Jan 24 j 08:14	23°57'27		conjunction		-11412 May 24 j 09:17	9°	41'41 -0°22'26
evening set	-11418 Apr 25 j 16:43	25°54'42		minimum elong		-11412 May 24 j 09:17	9°	41'41 0°22'41
max. Earth dist.	-11418 May 10 j 11:53	26°27'36	31.11692 AU	morning rise		-11412 Jun 08 j 23:40	10°	16'30
				retrograde		-11412 Sep 03 j 05:40	12°	08'28
conjunction	-11418 May 11 j 14:04	26°30'02	-0°58'42	opposition		-11412 Nov 19 j 14:46	10°	46'42 -0°20'44
minimum elong	-11418 May 11 j 14:05	26°30'03	0°59'05	min. Earth dist.		-11412 Nov 20 j 15:54	10°	44'59 29.17375 AU
morning rise	-11418 May 27 j 07:08	27°05'02		direct		-11411 Feb 08 j 23:58	9°	21'25
retrograde	-11418 Aug 21 j 11:24	28°57'01		evening set		-11411 May 11 j 02:16	11°	18'28
opposition	-11418 Nov 06 j 17:47	27°34'59	-0°59'42					
min. Earth dist.	-11418 Nov 07 j 18:28	27°33'17	29.12166 AU	conjunction		-11411 May 26 j 20:15	11°	53'36 -0°16'14
direct	-11417 Jan 26 j 20:28	26°09'20		minimum elong		-11411 May 26 j 20:15	11°	53'36 0°16'28
evening set	-11417 Apr 28 j 04:37	28°06'33		max. Earth dist.		-11411 May 25 j 18:13	11°	51'09 31.17634 AU
max. Earth dist.	-11417 May 12 j 22:24	28°39'20	31.12546 AU	morning rise		-11411 Jun 11 j 10:09	12°	28'22
				retrograde		-11411 Sep 05 j 14:24	14°	20'19
conjunction	-11417 May 14 j 01:24	28°41'52	-0°52'49	opposition		-11411 Nov 22 j 02:33	12°	58'34 -0°14'06
minimum elong	-11417 May 14 j 01:25	28°41'52	0°53'11	min. Earth dist.		-11411 Nov 23 j 03:06	12°	56'52 29.17936 AU
morning rise	-11417 May 29 j 18:12	29°16'50		direct		-11410 Feb 11 j 13:41	11°	33'17

Attention, astronomical year style is used: The year -11410 in astronomical counting style is the year 11411 BCE in historical counting style.

evening set	-11410 May 13 j 13:32	13° $\mathbf{\text{H}}$ 30'16		retrograde	-11405 Sep 19 j 02:58	27° $\mathbf{\text{H}}$ 27'36	
max. Earth dist.	-11410 May 28 j 04:15	14° $\mathbf{\text{H}}$ 02'51	31.18149 AU	opposition	-11405 Dec 06 j 01:19	26° $\mathbf{\text{H}}$ 05'42	0°25'42
				min. Earth dist.	-11405 Dec 07 j 00:07	26° $\mathbf{\text{H}}$ 04'09	29.21102 AU
conjunction	-11410 May 29 j 06:54	14° $\mathbf{\text{H}}$ 05'21	-0°10'02	direct	-11404 Feb 25 j 12:59	24° $\mathbf{\text{H}}$ 40'35	
minimum elong	-11410 May 29 j 06:54	14° $\mathbf{\text{H}}$ 05'21	0°10'15	evening set	-11404 May 26 j 06:39	26° $\mathbf{\text{H}}$ 37'05	
behind sun begin	-11410 May 29 j 01:45	14° $\mathbf{\text{H}}$ 04'53					
behind sun end	-11410 May 29 j 12:03	14° $\mathbf{\text{H}}$ 05'49		conjunction	-11404 Jun 10 j 20:35	27° $\mathbf{\text{H}}$ 11'54	0°27'13
morning rise	-11410 Jun 13 j 20:24	14° $\mathbf{\text{H}}$ 40'06		minimum elong	-11404 Jun 10 j 20:34	27° $\mathbf{\text{H}}$ 11'54	0°27'09
retrograde	-11410 Sep 08 j 00:26	16° $\mathbf{\text{H}}$ 32'01		max. Earth dist.	-11404 Jun 09 j 21:32	27° $\mathbf{\text{H}}$ 09'44	31.21463 AU
opposition	-11410 Nov 24 j 14:18	15° $\mathbf{\text{H}}$ 10'14	-0°07'26	morning rise	-11404 Jun 26 j 06:58	27° $\mathbf{\text{H}}$ 46'25	
min. Earth dist.	-11410 Nov 25 j 14:59	15° $\mathbf{\text{H}}$ 08'33	29.18418 AU	retrograde	-11404 Sep 20 j 14:40	29° $\mathbf{\text{H}}$ 38'27	
direct	-11409 Feb 14 j 00:21	13° $\mathbf{\text{H}}$ 44'58		opposition	-11404 Dec 07 j 13:13	28° $\mathbf{\text{H}}$ 16'34	0°32'15
evening set	-11409 May 16 j 00:38	15° $\mathbf{\text{H}}$ 41'51		min. Earth dist.	-11404 Dec 08 j 10:28	28° $\mathbf{\text{H}}$ 15'07	29.21899 AU
				direct	-11403 Feb 27 j 02:33	26° $\mathbf{\text{H}}$ 51'32	
conjunction	-11409 May 31 j 17:36	16° $\mathbf{\text{H}}$ 16'54	-0°03'50	evening set	-11403 May 28 j 17:15	28° $\mathbf{\text{H}}$ 48'00	
minimum elong	-11409 May 31 j 17:37	16° $\mathbf{\text{H}}$ 16'54	0°04'01	max. Earth dist.	-11403 Jun 12 j 08:10	29° $\mathbf{\text{H}}$ 20'41	31.22284 AU
behind sun begin	-11409 May 31 j 11:14	16° $\mathbf{\text{H}}$ 16'20					
behind sun end	-11409 May 31 j 23:59	16° $\mathbf{\text{H}}$ 17'28		conjunction	-11403 Jun 13 j 06:35	29° $\mathbf{\text{H}}$ 22'47	0°33'19
max. Earth dist.	-11409 May 30 j 16:04	16° $\mathbf{\text{H}}$ 14'30	31.18601 AU	minimum elong	-11403 Jun 13 j 06:35	29° $\mathbf{\text{H}}$ 22'47	0°33'17
morning rise	-11409 Jun 16 j 06:30	16° $\mathbf{\text{H}}$ 51'36		morning rise	-11403 Jun 28 j 16:25	29° $\mathbf{\text{H}}$ 57'16	
retrograde	-11409 Sep 10 j 09:11	18° $\mathbf{\text{H}}$ 43'30			-11403 Jun 29 j 22:22	0° $\mathbf{\text{Y}}$	
opposition	-11409 Nov 27 j 01:57	17° $\mathbf{\text{H}}$ 21'42	-0°00'47	retrograde	-11403 Sep 23 j 01:10	1° $\mathbf{\text{Y}}$ 49'23	
min. Earth dist.	-11409 Nov 28 j 02:41	17° $\mathbf{\text{H}}$ 20'00	29.18840 AU	opposition	-11403 Dec 10 j 01:22	0° $\mathbf{\text{Y}}$ 27'31	0°38'46
asc. node	-11408 Jan 08 j 08:52	16° $\mathbf{\text{H}}$ 19'37		min. Earth dist.	-11403 Dec 10 j 22:55	0° $\mathbf{\text{Y}}$ 26'03	29.22744 AU
direct	-11408 Feb 16 j 13:09	15° $\mathbf{\text{H}}$ 56'26			-11403 Dec 27 j 04:35	30° $\mathbf{\text{R}}$ $\mathbf{\text{H}}$	
evening set	-11408 May 17 j 11:48	17° $\mathbf{\text{H}}$ 53'13		direct	-11402 Mar 01 j 13:43	29° $\mathbf{\text{H}}$ 02'35	
max. Earth dist.	-11408 Jun 01 j 01:51	18° $\mathbf{\text{H}}$ 25'46	31.19027 AU		-11402 May 01 j 18:36	0° $\mathbf{\text{Y}}$	
				evening set	-11402 May 31 j 03:41	0° $\mathbf{\text{Y}}$ 59'01	
conjunction	-11408 Jun 02 j 04:03	18° $\mathbf{\text{H}}$ 28'13	0°02'32				
minimum elong	-11408 Jun 02 j 04:02	18° $\mathbf{\text{H}}$ 28'13	0°02'22	conjunction	-11402 Jun 15 j 16:28	1° $\mathbf{\text{Y}}$ 33'46	0°39'23
behind sun begin	-11408 Jun 01 j 21:35	18° $\mathbf{\text{H}}$ 27'38		minimum elong	-11402 Jun 15 j 16:27	1° $\mathbf{\text{Y}}$ 33'45	0°39'22
behind sun end	-11408 Jun 02 j 10:29	18° $\mathbf{\text{H}}$ 28'48		max. Earth dist.	-11402 Jun 14 j 19:03	1° $\mathbf{\text{Y}}$ 31'45	31.23121 AU
morning rise	-11408 Jun 17 j 16:34	19° $\mathbf{\text{H}}$ 02'54		morning rise	-11402 Jul 01 j 01:45	2° $\mathbf{\text{Y}}$ 08'12	
retrograde	-11408 Sep 11 j 19:56	20° $\mathbf{\text{H}}$ 54'47		retrograde	-11402 Sep 25 j 10:34	4° $\mathbf{\text{Y}}$ 00'24	
opposition	-11408 Nov 28 j 13:44	19° $\mathbf{\text{H}}$ 32'56	0°05'52	opposition	-11402 Dec 12 j 13:29	2° $\mathbf{\text{Y}}$ 38'35	0°45'13
min. Earth dist.	-11408 Nov 29 j 13:36	19° $\mathbf{\text{H}}$ 31'18	29.19283 AU	min. Earth dist.	-11402 Dec 13 j 10:06	2° $\mathbf{\text{Y}}$ 37'11	29.23550 AU
direct	-11407 Feb 18 j 00:38	18° $\mathbf{\text{H}}$ 07'40		direct	-11401 Mar 04 j 03:03	1° $\mathbf{\text{Y}}$ 13'45	
evening set	-11407 May 19 j 22:31	20° $\mathbf{\text{H}}$ 04'22		evening set	-11401 Jun 02 j 14:20	3° $\mathbf{\text{Y}}$ 10'09	
				max. Earth dist.	-11401 Jun 17 j 04:32	3° $\mathbf{\text{Y}}$ 42'48	31.23885 AU
conjunction	-11407 Jun 04 j 14:20	20° $\mathbf{\text{H}}$ 39'19	0°08'44				
minimum elong	-11407 Jun 04 j 14:20	20° $\mathbf{\text{H}}$ 39'19	0°08'35	conjunction	-11401 Jun 18 j 02:22	3° $\mathbf{\text{Y}}$ 44'51	0°45'23
behind sun begin	-11407 Jun 04 j 08:42	20° $\mathbf{\text{H}}$ 38'49		minimum elong	-11401 Jun 18 j 02:21	3° $\mathbf{\text{Y}}$ 44'51	0°45'24
behind sun end	-11407 Jun 04 j 19:58	20° $\mathbf{\text{H}}$ 39'50		morning rise	-11401 Jul 03 j 11:11	4° $\mathbf{\text{Y}}$ 19'16	
max. Earth dist.	-11407 Jun 03 j 13:51	20° $\mathbf{\text{H}}$ 37'02	31.19487 AU	retrograde	-11401 Sep 27 j 21:22	6° $\mathbf{\text{Y}}$ 11'32	
morning rise	-11407 Jun 20 j 02:11	21° $\mathbf{\text{H}}$ 13'57		opposition	-11401 Dec 15 j 01:36	4° $\mathbf{\text{Y}}$ 49'45	0°51'36
retrograde	-11407 Sep 14 j 05:18	23° $\mathbf{\text{H}}$ 05'52		min. Earth dist.	-11401 Dec 15 j 22:07	4° $\mathbf{\text{Y}}$ 48'21	29.24280 AU
opposition	-11407 Dec 01 j 01:42	21° $\mathbf{\text{H}}$ 43'58	0°12'30	direct	-11400 Mar 05 j 13:40	3° $\mathbf{\text{Y}}$ 25'00	
min. Earth dist.	-11407 Dec 02 j 01:44	21° $\mathbf{\text{H}}$ 42'19	29.19780 AU	evening set	-11400 Jun 04 j 00:51	5° $\mathbf{\text{Y}}$ 21'21	
direct	-11406 Feb 20 j 12:57	20° $\mathbf{\text{H}}$ 18'44					
evening set	-11406 May 22 j 09:23	22° $\mathbf{\text{H}}$ 15'21		conjunction	-11400 Jun 19 j 12:23	5° $\mathbf{\text{Y}}$ 56'01	0°51'20
max. Earth dist.	-11406 Jun 05 j 23:44	22° $\mathbf{\text{H}}$ 47'56	31.20038 AU	minimum elong	-11400 Jun 19 j 12:23	5° $\mathbf{\text{Y}}$ 56'00	0°51'21
				max. Earth dist.	-11400 Jun 18 j 15:50	5° $\mathbf{\text{Y}}$ 54'05	31.24549 AU
conjunction	-11406 Jun 07 j 00:27	22° $\mathbf{\text{H}}$ 50'15	0°14'55	morning rise	-11400 Jul 04 j 20:31	6° $\mathbf{\text{Y}}$ 30'23	
minimum elong	-11406 Jun 07 j 00:27	22° $\mathbf{\text{H}}$ 50'15	0°14'47	retrograde	-11400 Sep 29 j 06:43	8° $\mathbf{\text{Y}}$ 22'46	
behind sun begin	-11406 Jun 06 j 21:47	22° $\mathbf{\text{H}}$ 50'01		opposition	-11400 Dec 16 j 14:02	7° $\mathbf{\text{Y}}$ 00'59	0°57'55
behind sun end	-11406 Jun 07 j 03:07	22° $\mathbf{\text{H}}$ 50'29		min. Earth dist.	-11400 Dec 17 j 10:27	6° $\mathbf{\text{Y}}$ 59'35	29.24876 AU
morning rise	-11406 Jun 22 j 11:57	23° $\mathbf{\text{H}}$ 24'51		direct	-11399 Mar 08 j 02:27	5° $\mathbf{\text{Y}}$ 36'19	
retrograde	-11406 Sep 16 j 16:38	25° $\mathbf{\text{H}}$ 16'46		evening set	-11399 Jun 06 j 11:21	7° $\mathbf{\text{Y}}$ 32'36	
opposition	-11406 Dec 03 j 13:21	23° $\mathbf{\text{H}}$ 54'52	0°19'07				
min. Earth dist.	-11406 Dec 04 j 11:45	23° $\mathbf{\text{H}}$ 53'20	29.20388 AU	conjunction	-11399 Jun 21 j 22:05	8° $\mathbf{\text{Y}}$ 07'12	0°57'12
direct	-11405 Feb 23 j 00:24	22° $\mathbf{\text{H}}$ 29'40		minimum elong	-11399 Jun 21 j 22:04	8° $\mathbf{\text{Y}}$ 07'12	0°57'14
evening set	-11405 May 24 j 20:00	24° $\mathbf{\text{H}}$ 26'13		max. Earth dist.	-11399 Jun 21 j 00:52	8° $\mathbf{\text{Y}}$ 05'12	31.25076 AU
max. Earth dist.	-11405 Jun 08 j 11:12	24° $\mathbf{\text{H}}$ 58'53	31.20695 AU	morning rise	-11399 Jul 07 j 05:50	8° $\mathbf{\text{Y}}$ 41'33	
				retrograde	-11399 Oct 01 j 17:51	10° $\mathbf{\text{Y}}$ 34'01	
conjunction	-11405 Jun 09 j 10:38	25° $\mathbf{\text{H}}$ 01'05	0°21'05	opposition	-11399 Dec 19 j 02:25	9° $\mathbf{\text{Y}}$ 12'13	1°04'08
minimum elong	-11405 Jun 09 j 10:37	25° $\mathbf{\text{H}}$ 01'05	0°20'59	min. Earth dist.	-11399 Dec 19 j 21:58	9° $\mathbf{\text{Y}}$ 10'53	29.25345 AU
morning rise	-11405 Jun 24 j 21:28	25° $\mathbf{\text{H}}$ 35'38					