

Planetary Phenomena of Uranus from -9900 through -9398 (UT), Astrodienst AG 18-Feb-2025 14:23, page 1

Attention, astronomical year style is used: The year -9900 in astronomical counting style is the year 9901 BCE in historical counting style.

evening set	-9900 Feb 24 j 06:47	7° $\overline{3}$ 50'31		conjunction	-9894 Apr 10 j 07:30	6° \approx 13'21	-0°55'53
max. Earth dist.	-9900 Mar 11 j 00:25	8° $\overline{3}$ 46'30	19.97304 AU	minimum elong	-9894 Apr 10 j 07:30	6° \approx 13'21	0°56'23
				morning rise	-9894 Apr 26 j 22:31	7° \approx 14'18	
conjunction	-9900 Mar 12 j 02:35	8° $\overline{3}$ 50'24	-1°06'08	retrograde	-9894 Jul 27 j 20:25	10° \approx 33'35	
minimum elong	-9900 Mar 12 j 02:35	8° $\overline{3}$ 50'24	1°06'44	opposition	-9894 Oct 09 j 03:20	8° \approx 31'38	-1°00'39
morning rise	-9900 Mar 28 j 21:20	9° $\overline{3}$ 50'10		min. Earth dist.	-9894 Oct 10 j 09:55	8° \approx 28'18	17.53420 AU
retrograde	-9900 Jun 29 j 15:38	13° $\overline{3}$ 05'38		direct	-9894 Dec 23 j 22:50	6° \approx 25'53	
opposition	-9900 Sep 11 j 17:37	11° $\overline{3}$ 04'01	-1°13'15	evening set	-9893 Mar 29 j 16:53	9° \approx 52'21	
min. Earth dist.	-9900 Sep 12 j 15:19	11° $\overline{3}$ 01'40	17.93756 AU	max. Earth dist.	-9893 Apr 13 j 22:27	10° \approx 48'21	19.50349 AU
direct	-9900 Nov 26 j 01:07	9° $\overline{3}$ 00'26					
evening set	-9899 Feb 28 j 05:32	12° $\overline{3}$ 18'39		conjunction	-9893 Apr 15 j 10:25	10° \approx 53'55	-0°52'46
max. Earth dist.	-9899 Mar 15 j 22:36	13° $\overline{3}$ 14'48	19.90147 AU	minimum elong	-9893 Apr 15 j 10:26	10° \approx 53'55	0°53'16
				morning rise	-9893 May 02 j 00:30	11° \approx 55'00	
conjunction	-9899 Mar 17 j 01:28	13° $\overline{3}$ 18'50	-1°05'27		-9893 Jul 09 j 18:28	15° \approx	
minimum elong	-9899 Mar 17 j 01:28	13° $\overline{3}$ 18'50	1°06'01	retrograde	-9893 Aug 01 j 20:13	15° \approx 14'49	
morning rise	-9899 Apr 02 j 19:41	14° $\overline{3}$ 18'50			-9893 Aug 24 j 23:56	15° \approx	
retrograde	-9899 Jul 04 j 10:44	17° $\overline{3}$ 34'57		opposition	-9893 Oct 14 j 00:12	13° \approx 12'47	-0°57'00
opposition	-9899 Sep 16 j 08:48	15° $\overline{3}$ 33'19	-1°12'17	min. Earth dist.	-9893 Oct 15 j 06:48	13° \approx 09'26	17.47495 AU
min. Earth dist.	-9899 Sep 17 j 08:13	15° $\overline{3}$ 30'47	17.86662 AU	direct	-9893 Dec 28 j 23:27	11° \approx 06'42	
direct	-9899 Nov 30 j 17:56	13° $\overline{3}$ 29'23		evening set	-9892 Apr 02 j 20:54	14° \approx 34'19	
evening set	-9898 Mar 05 j 05:35	16° $\overline{3}$ 49'05			-9892 Apr 09 j 21:05	15° \approx	
max. Earth dist.	-9898 Mar 20 j 19:14	17° $\overline{3}$ 45'00	19.83118 AU	max. Earth dist.	-9892 Apr 18 j 00:32	15° \approx 30'16	19.44621 AU
conjunction	-9898 Mar 22 j 01:11	17° $\overline{3}$ 49'31	-1°04'22	conjunction	-9892 Apr 19 j 13:41	15° \approx 36'01	-0°49'18
minimum elong	-9898 Mar 22 j 01:11	17° $\overline{3}$ 49'31	1°04'56	minimum elong	-9892 Apr 19 j 13:41	15° \approx 36'02	0°49'46
morning rise	-9898 Apr 07 j 19:03	18° $\overline{3}$ 49'45		morning rise	-9892 May 06 j 02:50	16° \approx 37'14	
retrograde	-9898 Jul 09 j 06:46	22° $\overline{3}$ 06'33		retrograde	-9892 Aug 05 j 17:43	19° \approx 57'34	
opposition	-9898 Sep 21 j 00:51	20° $\overline{3}$ 04'53	-1°10'53	opposition	-9892 Oct 17 j 21:56	17° \approx 55'25	-0°52'58
min. Earth dist.	-9898 Sep 22 j 02:00	20° $\overline{3}$ 02'09	17.79705 AU	min. Earth dist.	-9892 Oct 19 j 05:50	17° \approx 51'56	17.41996 AU
direct	-9898 Dec 05 j 12:04	18° $\overline{3}$ 00'34		direct	-9891 Jan 01 j 22:34	15° \approx 49'01	
evening set	-9897 Mar 10 j 06:23	21° $\overline{3}$ 21'44		evening set	-9891 Apr 08 j 01:08	19° \approx 17'43	
max. Earth dist.	-9897 Mar 25 j 19:18	22° $\overline{3}$ 17'48	19.76211 AU	max. Earth dist.	-9891 Apr 23 j 04:19	20° \approx 13'48	19.39358 AU
conjunction	-9897 Mar 27 j 01:53	22° $\overline{3}$ 22'26	-1°02'51	conjunction	-9891 Apr 24 j 17:11	20° \approx 19'33	-0°45'29
minimum elong	-9897 Mar 27 j 01:53	22° $\overline{3}$ 22'26	1°03'25	minimum elong	-9891 Apr 24 j 17:11	20° \approx 19'33	0°45'54
morning rise	-9897 Apr 12 j 19:00	23° $\overline{3}$ 22'52		morning rise	-9891 May 11 j 05:23	21° \approx 20'52	
retrograde	-9897 Jul 14 j 03:49	26° $\overline{3}$ 40'19		retrograde	-9891 Aug 10 j 18:14	24° \approx 41'39	
opposition	-9897 Sep 25 j 18:07	24° $\overline{3}$ 38'37	-1°09'00	opposition	-9891 Oct 22 j 20:26	22° \approx 39'26	-0°48'32
min. Earth dist.	-9897 Sep 26 j 20:34	24° $\overline{3}$ 35'44	17.72861 AU	min. Earth dist.	-9891 Oct 24 j 03:36	22° \approx 36'01	17.36976 AU
direct	-9897 Dec 10 j 07:29	22° $\overline{3}$ 33'58		direct	-9890 Jan 07 j 01:29	20° \approx 32'47	
evening set	-9896 Mar 14 j 07:59	25° $\overline{3}$ 56'31		evening set	-9890 Apr 13 j 05:49	24° \approx 02'26	
max. Earth dist.	-9896 Mar 29 j 17:36	26° $\overline{3}$ 52'22	19.69437 AU	max. Earth dist.	-9890 Apr 28 j 08:04	24° \approx 58'36	19.34605 AU
conjunction	-9896 Mar 31 j 02:58	26° $\overline{3}$ 57'28	-1°00'56	conjunction	-9890 Apr 29 j 20:58	25° \approx 04'23	-0°41'21
minimum elong	-9896 Mar 31 j 02:58	26° $\overline{3}$ 57'28	1°01'28	minimum elong	-9890 Apr 29 j 20:58	25° \approx 04'23	0°41'44
morning rise	-9896 Apr 16 j 19:33	27° $\overline{3}$ 58'05		morning rise	-9890 May 16 j 08:01	26° \approx 05'45	
	-9896 May 25 j 00:59	0° \approx		retrograde	-9890 Aug 15 j 16:11	29° \approx 27'00	
retrograde	-9896 Jul 18 j 00:37	1° \approx 16'11		opposition	-9890 Oct 27 j 19:54	27° \approx 24'43	-0°43'46
	-9896 Sep 11 j 14:44	30° \approx		min. Earth dist.	-9890 Oct 29 j 03:55	27° \approx 21'12	17.32520 AU
opposition	-9896 Sep 29 j 12:18	29° $\overline{3}$ 14'25	-1°06'40	direct	-9889 Jan 12 j 02:20	25° \approx 17'50	
min. Earth dist.	-9896 Sep 30 j 16:27	29° $\overline{3}$ 11'21	17.66176 AU	evening set	-9889 Apr 18 j 10:43	28° \approx 48'22	
direct	-9896 Dec 14 j 03:17	27° $\overline{3}$ 09'23		max. Earth dist.	-9889 May 03 j 12:24	29° \approx 44'40	19.30459 AU
	-9895 Mar 09 j 22:53	0° \approx					
evening set	-9895 Mar 19 j 10:16	0° \approx 33'19		conjunction	-9889 May 05 j 00:51	29° \approx 50'23	-0°36'55
max. Earth dist.	-9895 Apr 03 j 19:13	1° \approx 29'19	19.62833 AU	minimum elong	-9889 May 05 j 00:51	29° \approx 50'23	0°37'15
					-9889 May 07 j 14:01	0° \approx	
conjunction	-9895 Apr 05 j 04:59	1° \approx 34'29	-0°58'36	morning rise	-9889 May 21 j 10:52	0° \approx 51'49	
minimum elong	-9895 Apr 05 j 04:59	1° \approx 34'29	0°59'08	retrograde	-9889 Aug 20 j 17:35	4° \approx 13'28	
morning rise	-9895 Apr 21 j 20:44	2° \approx 35'17		opposition	-9889 Nov 01 j 20:05	2° \approx 11'09	-0°38'41
retrograde	-9895 Jul 22 j 23:14	5° \approx 53'58		min. Earth dist.	-9889 Nov 03 j 02:38	2° \approx 07'48	17.28686 AU
opposition	-9895 Oct 04 j 07:16	3° \approx 52'08	-1°03'53	direct	-9888 Jan 17 j 06:59	0° \approx 04'07	
min. Earth dist.	-9895 Oct 05 j 12:14	3° \approx 48'58	17.59667 AU	evening set	-9888 Apr 22 j 15:35	3° \approx 35'25	
direct	-9895 Dec 19 j 01:25	1° \approx 46'45		max. Earth dist.	-9888 May 07 j 17:28	4° \approx 31'56	19.26952 AU
evening set	-9894 Mar 24 j 13:25	5° \approx 11'59					
max. Earth dist.	-9894 Apr 08 j 19:30	6° \approx 07'48	19.56442 AU	conjunction	-9888 May 09 j 04:46	4° \approx 37'30	-0°32'12

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Attention, astronomical year style is used: The year -9888 in astronomical counting style is the year 9889 BCE in historical counting style.

minimum elong	-9888 May 09 j 04:46	4° $\mathbf{\text{X}}$ 37'30	0°32'31	minimum elong	-9882 Jun 08 j 03:19	3° $\mathbf{\text{Y}}$ 36'01	0°00'11
morning rise	-9888 May 25 j 13:30	5° $\mathbf{\text{X}}$ 38'57		behind sun begin	-9882 Jun 07 j 20:43	3° $\mathbf{\text{Y}}$ 34'59	
retrograde	-9888 Aug 24 j 16:49	9° $\mathbf{\text{X}}$ 00'59		behind sun end	-9882 Jun 08 j 09:54	3° $\mathbf{\text{Y}}$ 37'02	
opposition	-9888 Nov 05 j 21:07	6° $\mathbf{\text{X}}$ 58'40	-0°33'17	asc. node	-9882 Jun 17 j 22:37	4° $\mathbf{\text{Y}}$ 13'30	
min. Earth dist.	-9888 Nov 07 j 04:03	6° $\mathbf{\text{X}}$ 55'17	17.25515 AU	morning rise	-9882 Jun 24 j 04:31	4° $\mathbf{\text{Y}}$ 37'04	
direct	-9887 Jan 21 j 09:08	4° $\mathbf{\text{X}}$ 51'33		retrograde	-9882 Sep 23 j 04:24	8° $\mathbf{\text{Y}}$ 00'21	
evening set	-9887 Apr 27 j 20:47	8° $\mathbf{\text{X}}$ 23'32		opposition	-9882 Dec 05 j 16:15	5° $\mathbf{\text{Y}}$ 58'22	0°02'53
max. Earth dist.	-9887 May 12 j 21:51	9° $\mathbf{\text{X}}$ 20'05	19.24129 AU	min. Earth dist.	-9882 Dec 06 j 16:18	5° $\mathbf{\text{Y}}$ 55'46	17.19842 AU
				direct	-9881 Feb 20 j 14:36	3° $\mathbf{\text{Y}}$ 51'39	
conjunction	-9887 May 14 j 08:46	9° $\mathbf{\text{X}}$ 25'36	-0°27'16	evening set	-9881 May 28 j 01:43	7° $\mathbf{\text{Y}}$ 24'51	
minimum elong	-9887 May 14 j 08:46	9° $\mathbf{\text{X}}$ 25'36	0°27'32	max. Earth dist.	-9881 Jun 12 j 03:49	8° $\mathbf{\text{Y}}$ 22'13	19.20265 AU
morning rise	-9887 May 30 j 16:27	10° $\mathbf{\text{X}}$ 27'04					
retrograde	-9887 Aug 29 j 18:58	13° $\mathbf{\text{X}}$ 49'27		conjunction	-9881 Jun 13 j 06:00	8° $\mathbf{\text{Y}}$ 26'24	0°05'31
opposition	-9887 Nov 10 j 22:36	11° $\mathbf{\text{X}}$ 47'10	-0°27'39	minimum elong	-9881 Jun 13 j 05:59	8° $\mathbf{\text{Y}}$ 26'24	0°05'32
min. Earth dist.	-9887 Nov 12 j 03:50	11° $\mathbf{\text{X}}$ 43'58	17.23019 AU	behind sun begin	-9881 Jun 12 j 23:35	8° $\mathbf{\text{Y}}$ 25'24	
direct	-9886 Jan 26 j 14:09	9° $\mathbf{\text{X}}$ 40'01		behind sun end	-9881 Jun 13 j 12:23	8° $\mathbf{\text{Y}}$ 27'24	
evening set	-9886 May 03 j 02:00	13° $\mathbf{\text{X}}$ 12'33		morning rise	-9881 Jun 29 j 06:03	9° $\mathbf{\text{Y}}$ 27'19	
max. Earth dist.	-9886 May 18 j 04:00	14° $\mathbf{\text{X}}$ 09'25	19.21968 AU	retrograde	-9881 Sep 28 j 05:33	12° $\mathbf{\text{Y}}$ 50'35	
				opposition	-9881 Dec 10 j 20:54	10° $\mathbf{\text{Y}}$ 48'36	0°09'06
conjunction	-9886 May 19 j 12:57	14° $\mathbf{\text{X}}$ 14'38	-0°22'06	min. Earth dist.	-9881 Dec 11 j 19:14	10° $\mathbf{\text{Y}}$ 46'11	17.20892 AU
minimum elong	-9886 May 19 j 12:57	14° $\mathbf{\text{X}}$ 14'38	0°22'19	direct	-9880 Feb 25 j 21:04	8° $\mathbf{\text{Y}}$ 42'01	
morning rise	-9886 Jun 04 j 19:13	15° $\mathbf{\text{X}}$ 16'04		evening set	-9880 Jun 01 j 05:02	12° $\mathbf{\text{Y}}$ 14'54	
retrograde	-9886 Sep 03 j 19:55	18° $\mathbf{\text{X}}$ 38'44		max. Earth dist.	-9880 Jun 16 j 08:56	13° $\mathbf{\text{Y}}$ 12'33	19.21588 AU
opposition	-9886 Nov 16 j 01:07	16° $\mathbf{\text{X}}$ 36'31	-0°21'47				
min. Earth dist.	-9886 Nov 17 j 06:22	16° $\mathbf{\text{X}}$ 33'20	17.21183 AU	conjunction	-9880 Jun 17 j 08:07	13° $\mathbf{\text{Y}}$ 16'15	0°11'01
direct	-9885 Jan 31 j 17:08	14° $\mathbf{\text{X}}$ 29'25		minimum elong	-9880 Jun 17 j 08:07	13° $\mathbf{\text{Y}}$ 16'15	0°11'05
evening set	-9885 May 08 j 07:10	18° $\mathbf{\text{X}}$ 02'23		behind sun begin	-9880 Jun 17 j 03:08	13° $\mathbf{\text{Y}}$ 15'28	
max. Earth dist.	-9885 May 23 j 08:09	18° $\mathbf{\text{X}}$ 59'14	19.20463 AU	behind sun end	-9880 Jun 17 j 13:06	13° $\mathbf{\text{Y}}$ 17'02	
				morning rise	-9880 Jul 03 j 06:54	14° $\mathbf{\text{Y}}$ 16'59	
conjunction	-9885 May 24 j 16:42	19° $\mathbf{\text{X}}$ 04'24	-0°16'47	retrograde	-9880 Oct 02 j 06:34	17° $\mathbf{\text{Y}}$ 40'10	
minimum elong	-9885 May 24 j 16:42	19° $\mathbf{\text{X}}$ 04'24	0°16'58	opposition	-9880 Dec 15 j 01:43	15° $\mathbf{\text{Y}}$ 38'12	0°15'15
morning rise	-9885 Jun 09 j 21:54	20° $\mathbf{\text{X}}$ 05'48		min. Earth dist.	-9880 Dec 15 j 22:05	15° $\mathbf{\text{Y}}$ 36'00	17.22471 AU
retrograde	-9885 Sep 08 j 22:48	23° $\mathbf{\text{X}}$ 28'43		direct	-9879 Mar 02 j 04:21	13° $\mathbf{\text{Y}}$ 31'47	
opposition	-9885 Nov 21 j 04:07	21° $\mathbf{\text{X}}$ 26'34	-0°15'45	evening set	-9879 Jun 06 j 07:57	17° $\mathbf{\text{Y}}$ 04'12	
min. Earth dist.	-9885 Nov 22 j 07:31	21° $\mathbf{\text{X}}$ 23'35	17.19987 AU	max. Earth dist.	-9879 Jun 21 j 11:47	18° $\mathbf{\text{Y}}$ 01'51	19.23450 AU
direct	-9884 Feb 05 j 22:24	19° $\mathbf{\text{X}}$ 19'31					
evening set	-9884 May 12 j 12:10	22° $\mathbf{\text{X}}$ 52'47		conjunction	-9879 Jun 22 j 09:34	18° $\mathbf{\text{Y}}$ 05'20	0°16'27
				minimum elong	-9879 Jun 22 j 09:34	18° $\mathbf{\text{Y}}$ 05'20	0°16'34
conjunction	-9884 May 28 j 20:36	23° $\mathbf{\text{X}}$ 54'44	-0°11'20	morning rise	-9879 Jul 08 j 07:13	19° $\mathbf{\text{Y}}$ 05'52	
minimum elong	-9884 May 28 j 20:36	23° $\mathbf{\text{X}}$ 54'44	0°11'27	retrograde	-9879 Oct 07 j 06:37	22° $\mathbf{\text{Y}}$ 28'54	
behind sun begin	-9884 May 28 j 15:46	23° $\mathbf{\text{X}}$ 53'59		opposition	-9879 Dec 20 j 06:30	20° $\mathbf{\text{Y}}$ 26'56	0°21'15
behind sun end	-9884 May 29 j 01:26	23° $\mathbf{\text{X}}$ 55'29		min. Earth dist.	-9879 Dec 21 j 01:11	20° $\mathbf{\text{Y}}$ 24'55	17.24618 AU
max. Earth dist.	-9884 May 27 j 14:32	23° $\mathbf{\text{X}}$ 49'57	19.19568 AU	direct	-9878 Mar 07 j 10:05	18° $\mathbf{\text{Y}}$ 20'41	
morning rise	-9884 Jun 14 j 00:21	24° $\mathbf{\text{X}}$ 56'03		evening set	-9878 Jun 11 j 09:59	21° $\mathbf{\text{Y}}$ 52'30	
retrograde	-9884 Sep 13 j 00:29	28° $\mathbf{\text{X}}$ 19'08					
opposition	-9884 Nov 25 j 07:40	26° $\mathbf{\text{X}}$ 17'04	-0°09'36	conjunction	-9878 Jun 27 j 10:21	22° $\mathbf{\text{Y}}$ 53'24	0°21'44
min. Earth dist.	-9884 Nov 26 j 10:39	26° $\mathbf{\text{X}}$ 14'08	17.19382 AU	minimum elong	-9878 Jun 27 j 10:21	22° $\mathbf{\text{Y}}$ 53'24	0°21'54
direct	-9883 Feb 10 j 02:31	24° $\mathbf{\text{X}}$ 10'07		max. Earth dist.	-9878 Jun 26 j 15:41	22° $\mathbf{\text{Y}}$ 50'25	19.25891 AU
evening set	-9883 May 17 j 17:07	27° $\mathbf{\text{X}}$ 43'31		morning rise	-9878 Jul 13 j 06:49	23° $\mathbf{\text{Y}}$ 53'43	
max. Earth dist.	-9883 Jun 01 j 18:20	28° $\mathbf{\text{X}}$ 40'37	19.19256 AU	retrograde	-9878 Oct 12 j 07:25	27° $\mathbf{\text{Y}}$ 16'32	
				opposition	-9878 Dec 25 j 11:19	25° $\mathbf{\text{Y}}$ 14'34	0°27'05
conjunction	-9883 Jun 03 j 00:04	28° $\mathbf{\text{X}}$ 45'22	-0°05'48	min. Earth dist.	-9878 Dec 26 j 03:07	25° $\mathbf{\text{Y}}$ 12'53	17.27339 AU
minimum elong	-9883 Jun 03 j 00:05	28° $\mathbf{\text{X}}$ 45'22	0°05'53	direct	-9877 Mar 12 j 17:07	23° $\mathbf{\text{Y}}$ 08'32	
behind sun begin	-9883 Jun 02 j 17:42	28° $\mathbf{\text{X}}$ 44'22		evening set	-9877 Jun 16 j 11:07	26° $\mathbf{\text{Y}}$ 39'37	
behind sun end	-9883 Jun 03 j 06:27	28° $\mathbf{\text{X}}$ 46'21					
morning rise	-9883 Jun 19 j 02:43	29° $\mathbf{\text{X}}$ 46'34		conjunction	-9877 Jul 02 j 10:09	27° $\mathbf{\text{Y}}$ 40'15	0°26'52
	-9883 Jun 22 j 17:34	0° $\mathbf{\text{Y}}$		minimum elong	-9877 Jul 02 j 10:08	27° $\mathbf{\text{Y}}$ 40'15	0°27'05
retrograde	-9883 Sep 18 j 02:48	3° $\mathbf{\text{Y}}$ 09'48		max. Earth dist.	-9877 Jul 01 j 17:50	27° $\mathbf{\text{Y}}$ 37'39	19.28914 AU
opposition	-9883 Nov 30 j 11:42	1° $\mathbf{\text{Y}}$ 07'46	-0°03'22	morning rise	-9877 Jul 18 j 05:32	28° $\mathbf{\text{Y}}$ 40'21	
min. Earth dist.	-9883 Dec 01 j 12:55	1° $\mathbf{\text{Y}}$ 05'02	17.19347 AU		-9877 Aug 09 j 18:14	0° $\mathbf{\text{X}}$	
	-9883 Dec 27 j 23:38	30° $\mathbf{\text{X}}$		retrograde	-9877 Oct 17 j 06:35	2° $\mathbf{\text{X}}$ 02'55	
direct	-9882 Feb 15 j 08:27	29° $\mathbf{\text{X}}$ 00'54		opposition	-9877 Dec 30 j 16:00	0° $\mathbf{\text{X}}$ 00'58	0°32'42
	-9882 Apr 04 j 07:07	0° $\mathbf{\text{Y}}$		min. Earth dist.	-9877 Dec 31 j 06:00	29° $\mathbf{\text{Y}}$ 59'28	17.30673 AU
evening set	-9882 May 22 j 21:33	2° $\mathbf{\text{Y}}$ 34'18			-9877 Dec 31 j 00:59	30° $\mathbf{\text{X}}$	
max. Earth dist.	-9882 Jun 07 j 00:23	3° $\mathbf{\text{Y}}$ 31'43	19.19491 AU	direct	-9876 Mar 16 j 21:27	27° $\mathbf{\text{Y}}$ 55'10	
					-9876 May 27 j 02:53	0° $\mathbf{\text{X}}$	
conjunction	-9882 Jun 08 j 03:20	3° $\mathbf{\text{Y}}$ 36'01	-0°00'09	evening set	-9876 Jun 20 j 11:27	1° $\mathbf{\text{X}}$ 25'25	

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Attention, astronomical year style is used: The year -9876 in astronomical counting style is the year 9877 BCE in historical counting style.

conjunction	-9876 Jul 06 j 09:15	2°8'25"46	0°31'47	minimum elong	-9870 Aug 03 j 10:04	0°II'27'42	0°55'53
minimum elong	-9876 Jul 06 j 09:14	2°8'25"46	0°32'03	max. Earth dist.	-9870 Aug 03 j 13:40	0°II'28'15	19.65992 AU
max. Earth dist.	-9876 Jul 05 j 19:57	2°8'23"40	19.32559 AU	morning rise	-9870 Aug 18 j 23:54	1°II'25'56	
morning rise	-9876 Jul 22 j 03:37	3°8'25"38		retrograde	-9870 Nov 18 j 21:52	4°II'45'40	
retrograde	-9876 Oct 21 j 07:02	6°8'47"52		opposition	-9869 Feb 02 j 14:09	2°II'44'36	1°03'18
opposition	-9875 Jan 03 j 20:08	4°8'45"58	0°38'04	min. Earth dist.	-9869 Feb 02 j 08:15	2°II'45'12	17.69423 AU
min. Earth dist.	-9875 Jan 04 j 06:37	4°8'44"51	17.34617 AU	direct	-9869 Apr 20 j 17:28	0°II'41'44	
direct	-9875 Mar 22 j 03:24	2°8'40"28		evening set	-9869 Jul 23 j 12:33	4°II'04'04	
evening set	-9875 Jun 25 j 10:58	6°8'09'49					
conjunction	-9875 Jul 11 j 07:33	7°8'09'53	0°36'28	conjunction	-9869 Aug 08 j 03:20	5°II'02'14	0°58'10
minimum elong	-9875 Jul 11 j 07:32	7°8'09'53	0°36'45	minimum elong	-9869 Aug 08 j 03:20	5°II'02'14	0°58'40
max. Earth dist.	-9875 Jul 10 j 21:14	7°8'08'15	19.36810 AU	max. Earth dist.	-9869 Aug 08 j 10:28	5°II'03'21	19.72882 AU
morning rise	-9875 Jul 27 j 00:53	8°8'09'29		morning rise	-9869 Aug 23 j 16:34	6°II'00'12	
retrograde	-9875 Oct 26 j 05:16	11°8'31'23		retrograde	-9869 Nov 23 j 16:31	9°II'19'23	
opposition	-9874 Jan 09 j 00:18	9°8'29'34	0°43'09	opposition	-9868 Feb 07 j 15:18	7°II'18'27	1°06'07
min. Earth dist.	-9874 Jan 09 j 08:56	9°8'28'39	17.39180 AU	min. Earth dist.	-9868 Feb 07 j 07:51	7°II'19'13	17.76408 AU
direct	-9874 Mar 27 j 05:51	7°8'24'25		direct	-9868 Apr 24 j 17:06	5°II'16'03	
evening set	-9874 Jun 30 j 09:29	10°8'52'46		evening set	-9868 Jul 27 j 05:44	8°II'37'01	
conjunction	-9874 Jul 16 j 04:51	11°8'52'31	0°40'53	conjunction	-9868 Aug 11 j 19:41	9°II'34'51	1°00'31
minimum elong	-9874 Jul 16 j 04:50	11°8'52'31	0°41'14	minimum elong	-9868 Aug 11 j 19:41	9°II'34'51	1°01'01
max. Earth dist.	-9874 Jul 15 j 21:19	11°8'51'20	19.41678 AU	max. Earth dist.	-9868 Aug 12 j 04:08	9°II'36'10	19.79943 AU
morning rise	-9874 Jul 31 j 21:21	12°8'51'52		morning rise	-9868 Aug 27 j 08:42	10°II'32'32	
retrograde	-9874 Sep 08 j 20:44	15°8'		retrograde	-9868 Nov 27 j 12:52	13°II'51'08	
opposition	-9874 Oct 31 j 05:50	16°8'13'24		opposition	-9867 Feb 11 j 15:27	11°II'50'19	1°08'30
min. Earth dist.	-9874 Dec 25 j 14:01	15°8'		min. Earth dist.	-9867 Feb 11 j 05:01	11°II'51'23	17.83534 AU
direct	-9873 Jan 14 j 04:00	14°8'11'42	0°47'55	direct	-9867 Apr 29 j 17:16	9°II'48'20	
evening set	-9873 Jan 14 j 08:41	14°8'11'12	17.44326 AU	evening set	-9867 Jul 31 j 21:48	13°II'07'54	
conjunction	-9873 Apr 01 j 10:29	12°8'06'57		conjunction	-9867 Aug 16 j 11:20	14°II'05'26	1°02'29
minimum elong	-9873 Jun 25 j 21:19	15°8'		minimum elong	-9867 Aug 16 j 11:20	14°II'05'26	1°03'01
max. Earth dist.	-9873 Jul 05 j 07:07	15°8'34'13		max. Earth dist.	-9867 Aug 16 j 23:09	14°II'07'15	19.87108 AU
morning rise	-9873 Jul 21 j 01:28	16°8'33'41	0°45'01	morning rise	-9867 Aug 31 j 23:56	15°II'02'50	
retrograde	-9873 Jul 21 j 01:28	16°8'33'41	0°45'23	retrograde	-9867 Dec 02 j 06:06	18°II'20'48	
max. Earth dist.	-9873 Jul 20 j 21:24	16°8'33'02	19.47098 AU	opposition	-9866 Feb 16 j 15:05	16°II'20'05	1°10'26
morning rise	-9873 Aug 05 j 17:06	17°8'32'45		min. Earth dist.	-9866 Feb 16 j 02:57	16°II'21'20	17.90736 AU
retrograde	-9873 Nov 05 j 03:07	20°8'53'53		direct	-9866 May 04 j 15:40	14°II'18'32	
opposition	-9872 Jan 19 j 07:18	18°8'52'20	0°52'20	evening set	-9866 Aug 05 j 12:52	17°II'36'38	
min. Earth dist.	-9872 Jan 19 j 10:15	18°8'52'01	17.50008 AU	conjunction	-9866 Aug 21 j 01:46	18°II'33'50	1°04'02
direct	-9872 Apr 05 j 11:22	16°8'48'02		minimum elong	-9866 Aug 21 j 01:46	18°II'33'50	1°04'36
evening set	-9872 Jul 09 j 03:52	20°8'14'10		max. Earth dist.	-9866 Aug 21 j 14:49	18°II'35'51	19.94342 AU
conjunction	-9872 Jul 24 j 21:08	21°8'13'19	0°48'50	morning rise	-9866 Sep 05 j 14:24	19°II'30'59	
minimum elong	-9872 Jul 24 j 21:08	21°8'13'19	0°49'14	retrograde	-9866 Dec 07 j 00:16	22°II'48'19	
max. Earth dist.	-9872 Jul 24 j 19:19	21°8'13'02	19.53022 AU	opposition	-9865 Feb 21 j 13:47	20°II'47'39	1°11'55
morning rise	-9872 Aug 09 j 12:10	22°8'12'07		min. Earth dist.	-9865 Feb 20 j 23:00	20°II'49'10	17.98003 AU
retrograde	-9872 Nov 09 j 03:09	25°8'32'49		direct	-9865 May 09 j 12:47	18°II'46'28	
opposition	-9871 Jan 23 j 10:01	23°8'31'25	0°56'23	evening set	-9865 Aug 10 j 02:52	22°II'03'07	
min. Earth dist.	-9871 Jan 23 j 09:13	23°8'31'30	17.56140 AU	conjunction	-9865 Aug 25 j 15:36	23°II'00'01	1°05'12
direct	-9871 Apr 10 j 14:46	21°8'27'36		minimum elong	-9865 Aug 25 j 15:36	23°II'00'01	1°05'46
evening set	-9871 Jul 13 j 23:38	24°8'52'32		max. Earth dist.	-9865 Aug 26 j 07:59	23°II'02'32	20.01623 AU
conjunction	-9871 Jul 29 j 16:03	25°8'51'21	0°52'18	morning rise	-9865 Sep 10 j 04:02	23°II'56'54	
minimum elong	-9871 Jul 29 j 16:02	25°8'51'21	0°52'46	retrograde	-9865 Dec 11 j 16:23	27°II'13'31	
max. Earth dist.	-9871 Jul 29 j 17:50	25°8'51'38	19.59340 AU	opposition	-9864 Feb 26 j 11:25	25°II'12'56	1°12'58
morning rise	-9871 Aug 14 j 06:17	26°8'49'53		min. Earth dist.	-9864 Feb 25 j 18:47	25°II'14'38	18.05302 AU
retrograde	-9871 Oct 25 j 16:48	0°II'		direct	-9864 May 13 j 09:24	23°II'12'06	
opposition	-9871 Nov 13 j 23:21	0°II'10'06		evening set	-9864 Aug 13 j 16:01	26°II'27'17	
min. Earth dist.	-9871 Dec 03 j 14:04	30°8'		conjunction	-9864 Aug 29 j 04:18	27°II'23'53	1°05'58
direct	-9870 Jan 28 j 12:26	28°8'08'53	1°00'03	minimum elong	-9864 Aug 29 j 04:18	27°II'23'53	1°06'34
evening set	-9870 Jan 28 j 10:01	28°8'09'08	17.62634 AU	max. Earth dist.	-9864 Aug 29 j 21:50	27°II'26'34	20.08943 AU
conjunction	-9870 Apr 15 j 15:00	26°8'05'33		morning rise	-9864 Sep 13 j 16:58	28°II'20'31	
minimum elong	-9870 Jul 18 j 18:40	29°8'29'12		retrograde	-9864 Oct 13 j 22:12	0°II'	
max. Earth dist.	-9870 Jul 27 j 01:34	0°II'		opposition	-9864 Dec 15 j 08:40	1°II'36'27	
morning rise	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	conjunction	-9863 Feb 20 j 10:34	30°8'II'	
minimum elong	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	minimum elong	-9863 Mar 02 j 08:12	29°II'35'54	1°13'35
max. Earth dist.	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	max. Earth dist.	-9863 Mar 02 j 08:12	29°II'35'54	1°13'35
morning rise	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	morning rise	-9863 Mar 02 j 08:12	29°II'35'54	1°13'35
retrograde	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	retrograde	-9863 Mar 02 j 08:12	29°II'35'54	1°13'35
opposition	-9870 Aug 03 j 10:04	0°II'27'42	0°55'25	opposition	-9863 Mar 02 j 08:12	29°II'35'54	1°13'35

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Attention, astronomical year style is used: The year -9863 in astronomical counting style is the year 9864 BCE in historical counting style.

min. Earth dist.	-9863 Mar 01 j 13:16	29° Π 37'50	18.12656 AU	max. Earth dist.	-9857 Sep 29 j 08:14	27° Ω 17'16	20.60420 AU
direct	-9863 May 18 j 03:36	27° Π 35'25		morning rise	-9857 Oct 13 j 16:04	28° Ω 07'50	
	-9863 Aug 03 j 23:01	0° Ω			-9857 Nov 18 j 17:57	0° Ω	
evening set	-9863 Aug 18 j 03:56	0° Ω 49'08		retrograde	-9856 Jan 15 j 09:29	1° Ω 19'18	
					-9856 Mar 16 j 05:16	30° \mathbb{R} Ω	
conjunction	-9863 Sep 02 j 16:11	1° Ω 45'27	1°06'22	min. Earth dist.	-9856 Apr 01 j 00:47	29° Ω 22'40	18.63912 AU
minimum elong	-9863 Sep 02 j 16:11	1° Ω 45'27	1°06'56	opposition	-9856 Apr 02 j 07:50	29° Ω 19'33	1°06'34
max. Earth dist.	-9863 Sep 03 j 13:05	1° Ω 48'38	20.16311 AU	direct	-9856 Jun 17 j 11:41	27° Ω 21'50	
morning rise	-9863 Sep 18 j 04:48	2° Ω 41'50			-9856 Sep 07 j 23:42	0° Ω	
retrograde	-9863 Dec 19 j 23:41	5° Ω 57'05		evening set	-9856 Sep 15 j 18:52	0° Ω 26'32	
min. Earth dist.	-9862 Mar 06 j 06:55	3° Ω 58'44	18.20049 AU				
opposition	-9862 Mar 07 j 04:06	3° Ω 56'35	1°13'46	conjunction	-9856 Oct 01 j 08:17	1° Ω 21'15	0°59'02
direct	-9862 May 22 j 22:19	1° Ω 56'29		minimum elong	-9856 Oct 01 j 08:17	1° Ω 21'15	0°59'32
evening set	-9862 Aug 22 j 15:14	5° Ω 08'45		max. Earth dist.	-9856 Oct 02 j 15:53	1° Ω 25'55	20.67210 AU
				morning rise	-9856 Oct 17 j 00:23	2° Ω 16'20	
conjunction	-9862 Sep 07 j 03:14	6° Ω 04'47	1°06'22	retrograde	-9855 Jan 18 j 20:33	5° Ω 27'15	
minimum elong	-9862 Sep 07 j 03:14	6° Ω 04'47	1°06'57	opposition	-9855 Apr 06 j 21:38	3° Ω 27'37	1°04'06
max. Earth dist.	-9862 Sep 08 j 01:18	6° Ω 08'08	20.23730 AU	min. Earth dist.	-9855 Apr 05 j 14:35	3° Ω 30'44	18.70546 AU
morning rise	-9862 Sep 22 j 16:15	7° Ω 00'57		direct	-9855 Jun 21 j 22:08	1° Ω 30'15	
retrograde	-9862 Dec 24 j 14:49	10° Ω 15'31		evening set	-9855 Sep 20 j 01:19	4° Ω 33'52	
opposition	-9861 Mar 11 j 23:00	8° Ω 15'05	1°13'32				
min. Earth dist.	-9861 Mar 10 j 23:53	8° Ω 17'26	18.27508 AU	conjunction	-9855 Oct 05 j 15:24	5° Ω 28'26	0°56'41
direct	-9861 May 27 j 14:19	6° Ω 15'21		minimum elong	-9855 Oct 05 j 15:24	5° Ω 28'26	0°57'11
evening set	-9861 Aug 27 j 01:27	9° Ω 26'14		max. Earth dist.	-9855 Oct 07 j 00:35	5° Ω 33'19	20.73656 AU
				morning rise	-9855 Oct 21 j 08:07	6° Ω 23'23	
conjunction	-9861 Sep 11 j 13:40	10° Ω 22'01	1°06'01	retrograde	-9854 Jan 23 j 08:54	9° Ω 33'46	
minimum elong	-9861 Sep 11 j 13:40	10° Ω 22'01	1°06'35	min. Earth dist.	-9854 Apr 10 j 02:10	7° Ω 37'29	18.76785 AU
max. Earth dist.	-9861 Sep 12 j 14:47	10° Ω 25'48	20.31196 AU	opposition	-9854 Apr 11 j 10:32	7° Ω 34'14	1°01'19
morning rise	-9861 Sep 27 j 02:51	11° Ω 17'57		direct	-9854 Jun 26 j 09:39	5° Ω 37'11	
retrograde	-9861 Dec 29 j 04:56	14° Ω 31'51		evening set	-9854 Sep 24 j 07:37	8° Ω 39'46	
opposition	-9860 Mar 15 j 16:54	12° Ω 31'32	1°12'54				
min. Earth dist.	-9860 Mar 14 j 15:32	12° Ω 34'06	18.34974 AU	conjunction	-9854 Oct 09 j 22:08	9° Ω 34'11	0°54'03
direct	-9860 May 31 j 06:38	10° Ω 32'12		minimum elong	-9854 Oct 09 j 22:09	9° Ω 34'11	0°54'32
evening set	-9860 Aug 30 j 11:06	13° Ω 41'44		max. Earth dist.	-9854 Oct 11 j 07:05	9° Ω 39'00	20.79678 AU
				morning rise	-9854 Oct 25 j 15:50	10° Ω 29'02	
conjunction	-9860 Sep 14 j 23:14	14° Ω 37'16	1°05'18	retrograde	-9853 Jan 27 j 18:16	13° Ω 38'54	
minimum elong	-9860 Sep 14 j 23:14	14° Ω 37'16	1°05'52	opposition	-9853 Apr 15 j 22:38	11° Ω 39'25	0°58'15
max. Earth dist.	-9860 Sep 16 j 01:17	14° Ω 41'11	20.38653 AU	min. Earth dist.	-9853 Apr 14 j 14:52	11° Ω 42'36	18.82594 AU
morning rise	-9860 Sep 30 j 12:58	15° Ω 33'01		direct	-9853 Jun 30 j 18:27	9° Ω 42'37	
retrograde	-9859 Jan 01 j 18:47	18° Ω 46'17		evening set	-9853 Sep 28 j 13:16	12° Ω 44'14	
min. Earth dist.	-9859 Mar 19 j 07:12	16° Ω 48'47	18.42421 AU				
opposition	-9859 Mar 20 j 09:56	16° Ω 46'04	1°11'53	conjunction	-9853 Oct 14 j 04:38	13° Ω 38'32	0°51'10
direct	-9859 Jun 04 j 20:37	14° Ω 47'09		minimum elong	-9853 Oct 14 j 04:39	13° Ω 38'32	0°51'38
evening set	-9859 Sep 03 j 19:51	17° Ω 55'24		max. Earth dist.	-9853 Oct 15 j 14:37	13° Ω 43'29	20.85254 AU
				morning rise	-9853 Oct 29 j 23:05	14° Ω 33'17	
conjunction	-9859 Sep 19 j 08:21	18° Ω 50'43	1°04'13		-9853 Nov 06 j 22:11	15° Ω	
minimum elong	-9859 Sep 19 j 08:21	18° Ω 50'43	1°04'48	retrograde	-9852 Feb 01 j 05:27	17° Ω 42'37	
max. Earth dist.	-9859 Sep 20 j 13:03	18° Ω 55'01	20.46062 AU	min. Earth dist.	-9852 Apr 18 j 01:03	15° Ω 46'28	18.87923 AU
morning rise	-9859 Oct 04 j 22:24	19° Ω 46'16		opposition	-9852 Apr 19 j 09:50	15° Ω 43'11	0°54'54
retrograde	-9858 Jan 06 j 08:08	22° Ω 58'54			-9852 May 07 j 19:54	15° \mathbb{R} Ω	
min. Earth dist.	-9858 Mar 23 j 21:19	21° Ω 01'46	18.49772 AU	direct	-9852 Jul 04 j 05:03	13° Ω 46'36	
opposition	-9858 Mar 25 j 02:07	20° Ω 58'51	1°10'28		-9852 Aug 27 j 13:28	15° Ω	
direct	-9858 Jun 09 j 10:56	19° Ω 00'21		evening set	-9852 Oct 01 j 18:34	16° Ω 47'17	
evening set	-9858 Sep 08 j 04:03	22° Ω 07'22					
				conjunction	-9852 Oct 17 j 10:29	17° Ω 41'28	0°48'03
conjunction	-9858 Sep 23 j 16:40	23° Ω 02'27	1°02'49	minimum elong	-9852 Oct 17 j 10:29	17° Ω 41'28	0°48'29
minimum elong	-9858 Sep 23 j 16:40	23° Ω 02'27	1°03'22	max. Earth dist.	-9852 Oct 18 j 20:00	17° Ω 46'21	20.90344 AU
max. Earth dist.	-9858 Sep 24 j 22:02	23° Ω 06'50	20.53341 AU	morning rise	-9852 Nov 02 j 05:58	18° Ω 36'08	
morning rise	-9858 Oct 09 j 07:28	23° Ω 57'51		retrograde	-9851 Feb 04 j 13:26	21° Ω 44'59	
retrograde	-9857 Jan 10 j 20:46	27° Ω 09'54		opposition	-9851 Apr 23 j 20:23	19° Ω 45'33	0°51'18
opposition	-9857 Mar 29 j 17:33	25° Ω 09'59	1°08'42	min. Earth dist.	-9851 Apr 22 j 12:27	19° Ω 48'45	18.92788 AU
min. Earth dist.	-9857 Mar 28 j 12:05	25° Ω 12'57	18.56969 AU	direct	-9851 Jul 08 j 12:06	17° Ω 49'08	
direct	-9857 Jun 13 j 23:02	23° Ω 11'53		evening set	-9851 Oct 05 j 23:19	20° Ω 48'57	
evening set	-9857 Sep 12 j 11:39	26° Ω 17'42					
				conjunction	-9851 Oct 21 j 16:10	21° Ω 43'03	0°44'42
conjunction	-9857 Sep 28 j 00:48	27° Ω 12'37	1°01'05	minimum elong	-9851 Oct 21 j 16:11	21° Ω 43'03	0°45'07
minimum elong	-9857 Sep 28 j 00:48	27° Ω 12'37	1°01'38	max. Earth dist.	-9851 Oct 23 j 02:37	21° Ω 48'02	20.94991 AU

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Attention, astronomical year style is used: The year -9851 in astronomical counting style is the year 9852 BCE in historical counting style.

morning rise	-9851 Nov 06 j 12:29	22° Ω 37'39		direct	-9844 Aug 05 j 06:11	15° Π 36'50	
retrograde	-9850 Feb 08 j 22:52	25° Ω 46'01		evening set	-9844 Nov 02 j 03:46	18° Π 32'55	
min. Earth dist.	-9850 Apr 26 j 21:04	23° Ω 49'52	18.97212 AU				
opposition	-9850 Apr 28 j 05:58	23° Ω 46'35	0°47'28	conjunction	-9844 Nov 18 j 03:04	19° Π 26'53	0°16'46
direct	-9850 Jul 12 j 21:37	21° Ω 50'18		minimum elong	-9844 Nov 18 j 03:04	19° Π 26'53	0°16'56
evening set	-9850 Oct 10 j 03:53	24° Ω 49'19		max. Earth dist.	-9844 Nov 19 j 11:18	19° Π 31'28	21.16307 AU
				morning rise	-9844 Dec 04 j 06:54	20° Π 21'28	
conjunction	-9850 Oct 25 j 21:26	25° Ω 43'20	0°41'10	retrograde	-9843 Mar 09 j 02:15	23° Π 27'45	
minimum elong	-9850 Oct 25 j 21:26	25° Ω 43'20	0°41'33	min. Earth dist.	-9843 May 25 j 03:52	21° Π 31'19	19.17071 AU
max. Earth dist.	-9850 Oct 27 j 07:21	25° Ω 48'14	20.99206 AU	opposition	-9843 May 26 j 08:46	21° Π 28'25	0°16'00
morning rise	-9850 Nov 10 j 18:54	26° Ω 37'53		direct	-9843 Aug 09 j 08:58	19° Π 32'48	
retrograde	-9849 Feb 13 j 06:22	29° Ω 45'49		evening set	-9843 Nov 06 j 07:56	22° Π 28'42	
min. Earth dist.	-9849 May 01 j 07:08	27° Ω 49'33	19.01231 AU				
opposition	-9849 May 02 j 15:01	27° Ω 46'21	0°43'27	conjunction	-9843 Nov 22 j 08:27	23° Π 22'43	0°12'20
direct	-9849 Jul 17 j 03:12	25° Ω 50'11		minimum elong	-9843 Nov 22 j 08:26	23° Π 22'43	0°12'28
evening set	-9849 Oct 14 j 08:05	28° Ω 48'30		behind sun begin	-9843 Nov 22 j 04:08	23° Π 22'08	
				behind sun end	-9843 Nov 22 j 12:45	23° Π 23'19	
conjunction	-9849 Oct 30 j 02:38	29° Ω 42'28	0°37'27	max. Earth dist.	-9843 Nov 23 j 16:17	23° Π 27'14	21.17608 AU
minimum elong	-9849 Oct 30 j 02:39	29° Ω 42'28	0°37'47	morning rise	-9843 Dec 08 j 13:15	24° Π 17'21	
max. Earth dist.	-9849 Oct 31 j 13:15	29° Ω 47'27	21.03031 AU	retrograde	-9842 Mar 13 j 10:35	27° Π 23'32	
	-9849 Nov 04 j 04:36	0° Π		min. Earth dist.	-9842 May 29 j 09:35	25° Π 27'06	19.18092 AU
morning rise	-9849 Nov 15 j 00:59	0° Π 36'59		opposition	-9842 May 30 j 14:14	25° Π 24'13	0°11'02
retrograde	-9848 Feb 17 j 14:31	3° Π 44'30		direct	-9842 Aug 13 j 13:49	23° Π 28'37	
opposition	-9848 May 05 j 23:03	1° Π 45'02	0°39'14	evening set	-9842 Nov 10 j 12:33	26° Π 24'24	
min. Earth dist.	-9848 May 04 j 14:17	1° Π 48'19	19.04861 AU				
	-9848 Jun 29 j 10:28	30° κ 8		conjunction	-9842 Nov 26 j 13:59	27° Π 18'30	0°07'50
direct	-9848 Jul 20 j 10:55	29° Ω 48'59		minimum elong	-9842 Nov 26 j 13:59	27° Π 18'30	0°07'55
	-9848 Aug 10 j 01:13	0° Π		behind sun begin	-9842 Nov 26 j 08:02	27° Π 17'41	
evening set	-9848 Oct 17 j 12:12	2° Π 46'41		behind sun end	-9842 Nov 26 j 19:56	27° Π 19'19	
				max. Earth dist.	-9842 Nov 27 j 19:52	27° Π 22'44	21.18342 AU
conjunction	-9848 Nov 02 j 07:31	3° Π 40'36	0°33'35	morning rise	-9842 Dec 12 j 20:00	28° Π 13'13	
minimum elong	-9848 Nov 02 j 07:31	3° Π 40'36	0°33'54		-9841 Jan 17 j 16:20	0° Ω	
max. Earth dist.	-9848 Nov 03 j 17:26	3° Π 45'28	21.06474 AU	retrograde	-9841 Mar 17 j 16:41	1° Ω 19'19	
morning rise	-9848 Nov 18 j 07:01	4° Π 35'06			-9841 May 17 j 22:08	30° κ 8	
retrograde	-9847 Feb 20 j 21:35	7° Π 42'17		opposition	-9841 Jun 03 j 19:40	29° Π 20'00	0°06'02
min. Earth dist.	-9847 May 08 j 23:13	5° Π 45'59	19.08125 AU	min. Earth dist.	-9841 Jun 02 j 17:31	29° Π 22'38	19.18531 AU
opposition	-9847 May 10 j 06:50	5° Π 42'49	0°34'51	direct	-9841 Aug 17 j 16:30	27° Π 24'23	
direct	-9847 Jul 24 j 15:19	3° Π 46'52			-9841 Nov 08 j 13:23	0° Ω	
evening set	-9847 Oct 21 j 15:54	6° Π 44'01		evening set	-9841 Nov 14 j 17:17	0° Ω 20'08	
conjunction	-9847 Nov 06 j 12:20	7° Π 37'56	0°29'33	conjunction	-9841 Nov 30 j 19:54	1° Ω 14'19	0°03'19
minimum elong	-9847 Nov 06 j 12:20	7° Π 37'56	0°29'50	minimum elong	-9841 Nov 30 j 19:55	1° Ω 14'19	0°03'23
max. Earth dist.	-9847 Nov 07 j 22:47	7° Π 42'52	21.09557 AU	behind sun begin	-9841 Nov 30 j 13:18	1° Ω 13'25	
morning rise	-9847 Nov 22 j 12:48	8° Π 32'25		behind sun end	-9841 Dec 01 j 02:31	1° Ω 15'14	
retrograde	-9846 Feb 25 j 05:22	11° Π 39'19		max. Earth dist.	-9841 Dec 02 j 00:49	1° Ω 18'24	21.18481 AU
min. Earth dist.	-9846 May 13 j 05:39	9° Π 43'06	19.11006 AU	morning rise	-9841 Dec 17 j 02:51	2° Ω 09'07	
opposition	-9846 May 14 j 13:56	9° Π 39'52	0°30'19	retrograde	-9840 Mar 21 j 01:04	5° Ω 15'10	
direct	-9846 Jul 28 j 21:30	7° Π 44'01		min. Earth dist.	-9840 Jun 05 j 23:03	3° Ω 18'24	19.18350 AU
evening set	-9846 Oct 25 j 19:53	10° Π 40'44		opposition	-9840 Jun 07 j 00:38	3° Ω 15'49	0°01'01
				desc. node	-9840 Aug 18 j 02:02	1° Ω 20'20	
conjunction	-9846 Nov 10 j 17:10	11° Π 34'39	0°25'24	direct	-9840 Aug 20 j 21:12	1° Ω 20'08	
minimum elong	-9846 Nov 10 j 17:11	11° Π 34'39	0°25'39	evening set	-9840 Nov 17 j 22:24	4° Ω 15'55	
max. Earth dist.	-9846 Nov 12 j 02:39	11° Π 39'25	21.12240 AU				
morning rise	-9846 Nov 26 j 18:52	12° Π 29'09		conjunction	-9840 Dec 04 j 02:00	5° Ω 10'13	-0°01'21
retrograde	-9845 Mar 01 j 12:02	15° Π 35'47		minimum elong	-9840 Dec 04 j 01:58	5° Ω 10'13	0°01'20
opposition	-9845 May 18 j 20:35	13° Π 36'23	0°25'39	behind sun begin	-9840 Dec 03 j 19:19	5° Ω 09'18	
min. Earth dist.	-9845 May 17 j 13:55	13° Π 39'27	19.13486 AU	behind sun end	-9840 Dec 04 j 08:38	5° Ω 11'08	
direct	-9845 Aug 02 j 00:54	11° Π 40'37		max. Earth dist.	-9840 Dec 05 j 04:33	5° Ω 13'58	21.17990 AU
evening set	-9845 Oct 29 j 23:45	14° Π 36'58		morning rise	-9840 Dec 20 j 10:05	6° Ω 05'07	
				retrograde	-9839 Mar 25 j 06:58	9° Ω 11'09	
conjunction	-9845 Nov 14 j 22:12	15° Π 30'55	0°21'08	min. Earth dist.	-9839 Jun 10 j 06:44	7° Ω 14'03	19.17552 AU
minimum elong	-9845 Nov 14 j 22:12	15° Π 30'55	0°21'21	opposition	-9839 Jun 11 j 05:39	7° Ω 11'44	-0°04'01
max. Earth dist.	-9845 Nov 16 j 07:45	15° Π 35'41	21.14511 AU	direct	-9839 Aug 24 j 23:58	5° Ω 15'56	
morning rise	-9845 Dec 01 j 00:51	16° Π 25'27		evening set	-9839 Nov 22 j 03:34	8° Ω 11'49	
retrograde	-9844 Mar 04 j 19:56	19° Π 31'53					
min. Earth dist.	-9844 May 20 j 19:51	17° Π 35'36	19.15520 AU	conjunction	-9839 Dec 08 j 08:24	9° Ω 06'14	-0°05'55
opposition	-9844 May 22 j 02:45	17° Π 32'30	0°20'52	minimum elong	-9839 Dec 08 j 08:23	9° Ω 06'14	0°05'56

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Attention, astronomical year style is used: The year -9839 in astronomical counting style is the year 9840 BCE in historical counting style.

behind sun begin	-9839 Dec 08 j 02:02	9° <u>05</u> '21		conjunction	-9832 Jan 02 j 06:57	2° <u>05</u> '21	-0°31'53
behind sun end	-9839 Dec 08 j 14:44	9° <u>07</u> '06		minimum elong	-9832 Jan 02 j 06:56	2° <u>05</u> '21	0°32'09
max. Earth dist.	-9839 Dec 09 j 09:47	9° <u>09</u> '48	21.16903 AU	max. Earth dist.	-9832 Jan 02 j 21:11	2° <u>05</u> '22	21.00145 AU
morning rise	-9839 Dec 24 j 17:28	10° <u>01</u> '15		morning rise	-9832 Jan 18 j 21:30	3° <u>04</u> '19	
retrograde	-9838 Mar 29 j 15:17	13° <u>07</u> '17		retrograde	-9832 Apr 22 j 13:56	6° <u>05</u> '20	
opposition	-9838 Jun 15 j 10:19	11° <u>07</u> '47	-0°09'02	opposition	-9832 Jul 08 j 13:08	4° <u>05</u> '16	-0°37'30
min. Earth dist.	-9838 Jun 14 j 12:05	11° <u>10</u> '02	19.16158 AU	min. Earth dist.	-9832 Jul 08 j 01:12	4° <u>05</u> '30	18.98135 AU
direct	-9838 Aug 29 j 04:45	9° <u>11</u> '48		direct	-9832 Sep 21 j 03:37	2° <u>05</u> '56	
evening set	-9838 Nov 26 j 09:21	12° <u>07</u> '52		evening set	-9832 Dec 20 j 04:44	5° <u>05</u> '53	
conjunction	-9838 Dec 12 j 15:07	13° <u>02</u> '25	-0°10'25	conjunction	-9831 Jan 05 j 16:35	6° <u>05</u> '33	-0°35'51
minimum elong	-9838 Dec 12 j 15:07	13° <u>02</u> '25	0°10'28	minimum elong	-9831 Jan 05 j 16:34	6° <u>05</u> '33	0°36'08
behind sun begin	-9838 Dec 12 j 09:55	13° <u>01</u> '42		max. Earth dist.	-9831 Jan 06 j 04:17	6° <u>05</u> '12	20.96016 AU
behind sun end	-9838 Dec 12 j 20:19	13° <u>03</u> '07		morning rise	-9831 Jan 22 j 07:57	7° <u>04</u> '43	
max. Earth dist.	-9838 Dec 13 j 14:06	13° <u>05</u> '39	21.15228 AU	retrograde	-9831 Apr 26 j 22:04	10° <u>05</u> '40	
morning rise	-9838 Dec 29 j 01:18	13° <u>05</u> '34		opposition	-9831 Jul 12 j 18:08	8° <u>05</u> '57	-0°41'49
retrograde	-9837 Apr 02 j 21:11	17° <u>03</u> '38		min. Earth dist.	-9831 Jul 12 j 09:07	8° <u>05</u> '53	18.93835 AU
opposition	-9837 Jun 19 j 14:50	15° <u>04</u> '02	-0°13'59	direct	-9831 Sep 25 j 06:58	6° <u>05</u> '22	
min. Earth dist.	-9837 Jun 18 j 19:21	15° <u>06</u> '00	19.14217 AU	evening set	-9831 Dec 24 j 14:10	9° <u>05</u> '06	
direct	-9837 Sep 02 j 07:26	13° <u>07</u> '51		conjunction	-9830 Jan 10 j 03:04	10° <u>05</u> '20	-0°39'40
evening set	-9837 Nov 30 j 15:17	16° <u>04</u> '10		minimum elong	-9830 Jan 10 j 03:03	10° <u>05</u> '20	0°39'59
conjunction	-9837 Dec 16 j 22:15	16° <u>05</u> '52	-0°14'52	max. Earth dist.	-9830 Jan 10 j 12:51	10° <u>05</u> '24	20.91548 AU
minimum elong	-9837 Dec 16 j 22:15	16° <u>05</u> '52	0°14'59	morning rise	-9830 Jan 26 j 19:08	11° <u>04</u> '23	
behind sun begin	-9837 Dec 16 j 19:56	16° <u>05</u> '33		retrograde	-9830 May 01 j 08:57	14° <u>05</u> '07	
behind sun end	-9837 Dec 17 j 00:33	16° <u>05</u> '11		opposition	-9830 Jul 16 j 23:21	12° <u>05</u> '58	-0°45'57
max. Earth dist.	-9837 Dec 17 j 20:00	17° <u>01</u> '56	21.13045 AU	min. Earth dist.	-9830 Jul 16 j 15:30	12° <u>05</u> '47	18.89173 AU
morning rise	-9836 Jan 02 j 09:18	17° <u>05</u> '40		direct	-9830 Sep 29 j 12:53	10° <u>05</u> '80	
retrograde	-9836 Apr 06 j 05:33	21° <u>00</u> '19		evening set	-9830 Dec 29 j 00:40	13° <u>05</u> '44	
opposition	-9836 Jun 22 j 19:10	19° <u>02</u> '35	-0°18'54	conjunction	-9829 Jan 14 j 14:20	14° <u>05</u> '53	-0°43'18
min. Earth dist.	-9836 Jun 22 j 00:20	19° <u>02</u> '30	19.11792 AU	minimum elong	-9829 Jan 14 j 14:20	14° <u>05</u> '53	0°43'40
direct	-9836 Sep 05 j 12:18	17° <u>04</u> '11		max. Earth dist.	-9829 Jan 14 j 21:17	14° <u>05</u> '52	20.86686 AU
evening set	-9836 Dec 03 j 21:37	20° <u>00</u> '51			-9829 Jan 16 j 02:17	15° <u>05</u> '	
conjunction	-9836 Dec 20 j 05:28	20° <u>05</u> '43	-0°19'15	morning rise	-9829 Jan 31 j 07:04	15° <u>05</u> '29	
minimum elong	-9836 Dec 20 j 05:28	20° <u>05</u> '43	0°19'23	retrograde	-9829 May 05 j 18:37	18° <u>05</u> '38	
max. Earth dist.	-9836 Dec 21 j 00:58	20° <u>05</u> '27	21.10396 AU	opposition	-9829 Jul 21 j 05:00	16° <u>05</u> '26	-0°49'53
morning rise	-9835 Jan 05 j 17:33	21° <u>05</u> '09		min. Earth dist.	-9829 Jul 21 j 00:24	16° <u>05</u> '55	18.84118 AU
retrograde	-9835 Apr 10 j 11:48	24° <u>05</u> '27		direct	-9829 Oct 03 j 17:39	15° <u>01</u> '19	
opposition	-9835 Jun 26 j 23:40	22° <u>05</u> '37	-0°23'43	evening set	-9828 Jan 02 j 11:53	18° <u>02</u> '52	
min. Earth dist.	-9835 Jun 26 j 07:28	22° <u>05</u> '16	19.08936 AU	conjunction	-9828 Jan 19 j 02:27	18° <u>05</u> '16	-0°46'45
direct	-9835 Sep 09 j 14:38	21° <u>00</u> '59		minimum elong	-9828 Jan 19 j 02:27	18° <u>05</u> '16	0°47'08
evening set	-9835 Dec 08 j 04:27	23° <u>05</u> '05		max. Earth dist.	-9828 Jan 19 j 06:59	18° <u>05</u> '55	20.81435 AU
conjunction	-9835 Dec 24 j 13:28	24° <u>05</u> '07	-0°23'34	morning rise	-9828 Feb 04 j 19:44	19° <u>05</u> '06	
minimum elong	-9835 Dec 24 j 13:28	24° <u>05</u> '07	0°23'45	retrograde	-9828 May 09 j 06:13	23° <u>04</u> '41	
max. Earth dist.	-9835 Dec 25 j 07:41	24° <u>05</u> '41	21.07350 AU	opposition	-9828 Jul 24 j 11:04	21° <u>04</u> '26	-0°53'35
morning rise	-9834 Jan 10 j 02:23	25° <u>04</u> '43		min. Earth dist.	-9828 Jul 24 j 07:50	21° <u>04</u> '46	18.78655 AU
retrograde	-9834 Apr 14 j 20:58	28° <u>05</u> '13		direct	-9828 Oct 07 j 00:32	19° <u>06</u> '00	
opposition	-9834 Jul 01 j 03:54	26° <u>05</u> '17	-0°28'26	evening set	-9827 Jan 05 j 23:55	22° <u>08</u> '32	
min. Earth dist.	-9834 Jun 30 j 12:25	26° <u>05</u> '52	19.05696 AU	conjunction	-9827 Jan 22 j 15:13	23° <u>05</u> '13	-0°49'58
direct	-9834 Sep 13 j 19:44	24° <u>05</u> '24		minimum elong	-9827 Jan 22 j 15:13	23° <u>05</u> '13	0°50'23
evening set	-9834 Dec 12 j 12:00	27° <u>05</u> '02		max. Earth dist.	-9827 Jan 22 j 16:45	23° <u>05</u> '26	20.75750 AU
conjunction	-9834 Dec 28 j 21:55	28° <u>05</u> '17	-0°27'47	morning rise	-9827 Feb 08 j 09:02	24° <u>02</u> '17	
minimum elong	-9834 Dec 28 j 21:55	28° <u>05</u> '17	0°27'59	retrograde	-9827 May 13 j 16:50	27° <u>11</u> '20	
max. Earth dist.	-9834 Dec 29 j 13:41	28° <u>05</u> '30	21.03920 AU	opposition	-9827 Jul 28 j 17:48	25° <u>10</u> '59	-0°57'03
morning rise	-9833 Jan 14 j 11:45	29° <u>04</u> '03		min. Earth dist.	-9827 Jul 28 j 17:52	25° <u>10</u> '59	18.72758 AU
retrograde	-9833 Jan 18 j 10:18	0° <u>04</u> '		direct	-9827 Oct 11 j 06:58	23° <u>12</u> '12	
opposition	-9833 Apr 19 j 03:52	2° <u>05</u> '47		evening set	-9826 Jan 10 j 12:56	26° <u>15</u> '47	
min. Earth dist.	-9833 Jul 05 j 08:31	0° <u>05</u> '46	-0°33'02	conjunction	-9826 Jan 27 j 05:02	27° <u>12</u> '44	-0°52'57
direct	-9833 Jul 28 j 00:17	30° <u>05</u> '		minimum elong	-9826 Jan 27 j 05:02	27° <u>12</u> '44	0°53'23
evening set	-9833 Sep 17 j 22:10	28° <u>05</u> '40		max. Earth dist.	-9826 Jan 27 j 03:44	27° <u>12</u> '33	20.69646 AU
conjunction	-9833 Nov 07 j 11:48	0° <u>04</u> '		morning rise	-9826 Feb 12 j 23:21	28° <u>10</u> '02	
evening set	-9833 Dec 16 j 19:57	1° <u>05</u> '55		retrograde	-9826 Mar 21 j 07:08	0° <u>05</u> '	
					-9826 May 18 j 05:13	1° <u>05</u> '19	34

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Attention, astronomical year style is used: The year -9826 in astronomical counting style is the year 9827 BCE in historical counting style.

	-9826 Jul 16 j 10:23	30° \mathbb{M}	conjunction	-9819 Feb 27 j 03:26	26° \mathbb{A} 51'30	-1°05'35
opposition	-9826 Aug 02 j 00:44	29° \mathbb{M} 19'06	minimum elong	-9819 Feb 27 j 03:26	26° \mathbb{A} 51'30	1°06'09
min. Earth dist.	-9826 Aug 02 j 02:22	29° \mathbb{M} 18'55	morning rise	-9819 Mar 15 j 22:49	27° \mathbb{A} 50'31	
direct	-9826 Oct 15 j 15:35	27° \mathbb{M} 19'53		-9819 Apr 27 j 19:29	0° \mathbb{B}	
	-9825 Jan 07 j 17:05	0° \mathbb{A}	retrograde	-9819 Jun 17 j 03:45	1° \mathbb{B} 03'58	
evening set	-9825 Jan 15 j 02:54	0° \mathbb{A} 24'35		-9819 Aug 07 j 11:49	30° \mathbb{R} \mathbb{A}	
			opposition	-9819 Aug 30 j 18:35	29° \mathbb{A} 02'31	-1°13'09
conjunction	-9825 Jan 31 j 19:40	1° \mathbb{A} 21'49	min. Earth dist.	-9819 Aug 31 j 11:20	29° \mathbb{A} 00'43	18.15835 AU
minimum elong	-9825 Jan 31 j 19:39	1° \mathbb{A} 21'49	direct	-9819 Nov 13 j 18:59	27° \mathbb{A} 00'08	
max. Earth dist.	-9825 Jan 31 j 15:22	1° \mathbb{A} 21'12		-9818 Feb 11 j 03:01	0° \mathbb{B}	
morning rise	-9825 Feb 17 j 14:19	2° \mathbb{A} 19'22	evening set	-9818 Feb 15 j 03:59	0° \mathbb{B} 13'53	
retrograde	-9825 May 22 j 16:21	5° \mathbb{A} 29'22				
opposition	-9825 Aug 06 j 08:26	3° \mathbb{A} 28'46	conjunction	-9818 Mar 03 j 23:41	1° \mathbb{B} 13'12	-1°06'01
min. Earth dist.	-9825 Aug 06 j 13:18	3° \mathbb{A} 28'15	minimum elong	-9818 Mar 03 j 23:41	1° \mathbb{B} 13'12	1°06'36
direct	-9825 Oct 19 j 23:29	1° \mathbb{A} 29'08	max. Earth dist.	-9818 Mar 03 j 02:05	1° \mathbb{B} 10'00	20.12126 AU
evening set	-9824 Jan 19 j 17:27	4° \mathbb{A} 34'57	morning rise	-9818 Mar 20 j 19:03	2° \mathbb{B} 12'29	
			retrograde	-9818 Jun 21 j 21:09	5° \mathbb{B} 26'35	
conjunction	-9824 Feb 05 j 10:51	5° \mathbb{A} 32'28	opposition	-9818 Sep 04 j 06:50	3° \mathbb{B} 25'05	-1°13'28
minimum elong	-9824 Feb 05 j 10:51	5° \mathbb{A} 32'28	min. Earth dist.	-9818 Sep 05 j 00:50	3° \mathbb{B} 23'09	18.08501 AU
max. Earth dist.	-9824 Feb 05 j 03:46	5° \mathbb{A} 31'27	direct	-9818 Nov 18 j 10:15	1° \mathbb{B} 22'18	
morning rise	-9824 Feb 22 j 05:52	6° \mathbb{A} 30'15	evening set	-9817 Feb 20 j 01:02	4° \mathbb{B} 37'32	
retrograde	-9824 May 26 j 05:35	9° \mathbb{A} 40'47				
opposition	-9824 Aug 09 j 16:28	7° \mathbb{A} 40'00	conjunction	-9817 Mar 08 j 20:59	5° \mathbb{B} 37'09	-1°06'05
min. Earth dist.	-9824 Aug 09 j 22:45	7° \mathbb{A} 39'20	minimum elong	-9817 Mar 08 j 20:59	5° \mathbb{B} 37'09	1°06'41
direct	-9824 Oct 23 j 09:52	5° \mathbb{A} 39'54	max. Earth dist.	-9817 Mar 07 j 22:14	5° \mathbb{B} 33'46	20.04827 AU
evening set	-9823 Jan 23 j 08:59	8° \mathbb{A} 46'55	morning rise	-9817 Mar 25 j 15:56	6° \mathbb{B} 36'40	
			retrograde	-9817 Jun 26 j 13:45	9° \mathbb{B} 51'27	
conjunction	-9823 Feb 09 j 02:58	9° \mathbb{A} 44'44	opposition	-9817 Sep 08 j 20:12	7° \mathbb{B} 49'56	-1°13'22
minimum elong	-9823 Feb 09 j 02:58	9° \mathbb{A} 44'43	min. Earth dist.	-9817 Sep 09 j 16:19	7° \mathbb{B} 47'45	18.01253 AU
max. Earth dist.	-9823 Feb 08 j 17:23	9° \mathbb{A} 43'20	direct	-9817 Nov 23 j 00:45	5° \mathbb{B} 46'47	
morning rise	-9823 Feb 25 j 22:10	10° \mathbb{A} 42'46	evening set	-9816 Feb 24 j 23:00	9° \mathbb{B} 03'31	
retrograde	-9823 May 30 j 17:30	13° \mathbb{A} 53'48				
opposition	-9823 Aug 14 j 01:07	11° \mathbb{A} 52'52	conjunction	-9816 Mar 12 j 18:49	10° \mathbb{B} 03'24	-1°05'46
min. Earth dist.	-9823 Aug 14 j 10:24	11° \mathbb{A} 51'53	minimum elong	-9816 Mar 12 j 18:49	10° \mathbb{B} 03'24	1°06'20
direct	-9823 Oct 27 j 18:46	9° \mathbb{A} 52'17	max. Earth dist.	-9816 Mar 11 j 17:07	9° \mathbb{B} 59'34	19.97632 AU
evening set	-9822 Jan 28 j 01:25	13° \mathbb{A} 00'33	morning rise	-9816 Mar 29 j 13:37	11° \mathbb{B} 03'10	
			retrograde	-9816 Jun 30 j 08:26	14° \mathbb{B} 18'40	
conjunction	-9822 Feb 13 j 19:54	13° \mathbb{A} 58'39	opposition	-9816 Sep 12 j 10:22	12° \mathbb{B} 17'07	-1°12'48
minimum elong	-9822 Feb 13 j 19:53	13° \mathbb{A} 58'39	min. Earth dist.	-9816 Sep 13 j 07:53	12° \mathbb{B} 14'47	17.94111 AU
max. Earth dist.	-9822 Feb 13 j 07:29	13° \mathbb{A} 56'51	direct	-9816 Nov 26 j 17:34	10° \mathbb{B} 13'36	
morning rise	-9822 Mar 02 j 15:23	14° \mathbb{A} 56'56	evening set	-9815 Feb 28 j 21:59	13° \mathbb{B} 31'50	
retrograde	-9822 Jun 04 j 08:10	18° \mathbb{A} 08'32				
opposition	-9822 Aug 18 j 10:21	16° \mathbb{A} 07'26	conjunction	-9815 Mar 17 j 17:54	14° \mathbb{B} 32'01	-1°05'02
min. Earth dist.	-9822 Aug 18 j 20:57	16° \mathbb{A} 06'18	minimum elong	-9815 Mar 17 j 17:54	14° \mathbb{B} 32'01	1°05'37
direct	-9822 Nov 01 j 06:58	14° \mathbb{A} 06'22	max. Earth dist.	-9815 Mar 16 j 15:15	14° \mathbb{B} 28'01	19.90521 AU
evening set	-9821 Feb 01 j 18:43	17° \mathbb{A} 15'56	morning rise	-9815 Apr 03 j 12:08	15° \mathbb{B} 32'00	
			retrograde	-9815 Jul 05 j 03:14	18° \mathbb{B} 48'10	
conjunction	-9821 Feb 18 j 13:38	18° \mathbb{A} 14'21	opposition	-9815 Sep 17 j 01:29	16° \mathbb{B} 46'37	-1°11'48
minimum elong	-9821 Feb 18 j 13:38	18° \mathbb{A} 14'21	min. Earth dist.	-9815 Sep 18 j 01:00	16° \mathbb{B} 44'04	17.87044 AU
max. Earth dist.	-9821 Feb 17 j 23:13	18° \mathbb{A} 12'14	direct	-9815 Dec 01 j 10:24	14° \mathbb{B} 42'45	
morning rise	-9821 Mar 07 j 09:04	19° \mathbb{A} 12'53	evening set	-9814 Mar 05 j 22:09	18° \mathbb{B} 02'28	
retrograde	-9821 Jun 08 j 21:07	22° \mathbb{A} 25'03	max. Earth dist.	-9814 Mar 21 j 11:52	18° \mathbb{B} 58'24	19.83496 AU
opposition	-9821 Aug 22 j 20:21	20° \mathbb{A} 23'49				
min. Earth dist.	-9821 Aug 23 j 09:35	20° \mathbb{A} 22'24	conjunction	-9814 Mar 22 j 17:44	19° \mathbb{B} 02'54	-1°03'54
direct	-9821 Nov 05 j 17:08	18° \mathbb{A} 22'17	minimum elong	-9814 Mar 22 j 17:44	19° \mathbb{B} 02'54	1°04'27
evening set	-9820 Feb 06 j 12:53	21° \mathbb{A} 33'13	morning rise	-9814 Apr 08 j 11:37	20° \mathbb{B} 03'08	
			retrograde	-9814 Jul 09 j 23:30	23° \mathbb{B} 19'58	
conjunction	-9820 Feb 23 j 08:06	22° \mathbb{A} 31'55	opposition	-9814 Sep 21 j 17:42	21° \mathbb{B} 18'22	-1°10'20
minimum elong	-9820 Feb 23 j 08:06	22° \mathbb{A} 31'55	min. Earth dist.	-9814 Sep 22 j 18:48	21° \mathbb{B} 15'38	17.80069 AU
max. Earth dist.	-9820 Feb 22 j 14:55	22° \mathbb{A} 29'24	direct	-9814 Dec 06 j 05:07	19° \mathbb{B} 14'07	
morning rise	-9820 Mar 11 j 03:39	23° \mathbb{A} 30'42	evening set	-9813 Mar 10 j 22:53	22° \mathbb{B} 35'17	
retrograde	-9820 Jun 12 j 13:18	26° \mathbb{A} 43'30	max. Earth dist.	-9813 Mar 26 j 11:49	23° \mathbb{B} 31'21	19.76553 AU
opposition	-9820 Aug 26 j 07:01	24° \mathbb{A} 42'08				
min. Earth dist.	-9820 Aug 26 j 21:24	24° \mathbb{A} 40'36	conjunction	-9813 Mar 27 j 18:23	23° \mathbb{B} 35'59	-1°02'20
direct	-9820 Nov 09 j 06:54	22° \mathbb{A} 40'09	minimum elong	-9813 Mar 27 j 18:23	23° \mathbb{B} 35'59	1°02'53
evening set	-9819 Feb 10 j 07:50	25° \mathbb{A} 52'29	morning rise	-9813 Apr 13 j 11:30	24° \mathbb{B} 36'24	
max. Earth dist.	-9819 Feb 26 j 08:44	26° \mathbb{A} 48'44	retrograde	-9813 Jul 14 j 20:12	27° \mathbb{B} 53'53	

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Attention, astronomical year style is used: The year -9813 in astronomical counting style is the year 9814 BCE in historical counting style.

opposition	-9813 Sep 26 j 10:55	25° ♁ 52'14	-1°08'24	min. Earth dist.	-9807 Oct 24 j 19:26	23° ♁ 48'39	17.37403 AU
min. Earth dist.	-9813 Sep 27 j 13:29	25° ♁ 49'20	17.73181 AU	direct	-9806 Jan 07 j 17:21	21° ♁ 45'22	
direct	-9813 Dec 11 j 00:05	23° ♁ 47'37		evening set	-9806 Apr 13 j 21:41	25° ♁ 14'54	
evening set	-9812 Mar 15 j 00:35	27° ♁ 10'10		max. Earth dist.	-9806 Apr 29 j 00:07	26° ♁ 11'05	19.35080 AU
max. Earth dist.	-9812 Mar 30 j 10:08	28° ♁ 06'00	19.69735 AU				
				conjunction	-9806 Apr 30 j 12:51	26° ♁ 16'49	-0°40'41
conjunction	-9812 Mar 31 j 19:34	28° ♁ 11'06	-1°00'23	minimum elong	-9806 Apr 30 j 12:52	26° ♁ 16'49	0°41'03
minimum elong	-9812 Mar 31 j 19:35	28° ♁ 11'06	1°00'56	morning rise	-9806 May 16 j 23:58	27° ♁ 18'11	
morning rise	-9812 Apr 17 j 12:11	29° ♁ 11'43			-9806 Jul 09 j 18:26	0° ♁	
	-9812 May 01 j 10:08	0° ♁		retrograde	-9806 Aug 16 j 08:23	0° ♁ 39'20	
retrograde	-9812 Jul 18 j 17:33	2° ♁ 29'49			-9806 Sep 23 j 18:34	30° ♁	
opposition	-9812 Sep 30 j 04:56	0° ♁ 28'04	-1°06'02	opposition	-9806 Oct 28 j 12:00	28° ♁ 37'02	-0°43'01
min. Earth dist.	-9812 Oct 01 j 09:05	0° ♁ 25'00	17.66453 AU	min. Earth dist.	-9806 Oct 29 j 19:39	28° ♁ 33'34	17.33045 AU
	-9812 Oct 11 j 00:57	30° ♁		direct	-9805 Jan 12 j 18:48	26° ♁ 30'10	
direct	-9812 Dec 14 j 20:32	28° ♁ 23'03			-9805 Apr 18 j 22:33	0° ♁	
	-9811 Feb 15 j 11:27	0° ♁		evening set	-9805 Apr 19 j 02:23	0° ♁ 00'35	
evening set	-9811 Mar 20 j 02:45	1° ♁ 46'57		max. Earth dist.	-9805 May 04 j 04:27	0° ♁ 56'55	19.31034 AU
max. Earth dist.	-9811 Apr 04 j 11:45	2° ♁ 42'56	19.63095 AU				
				conjunction	-9805 May 05 j 16:34	1° ♁ 02'35	-0°36'14
conjunction	-9811 Apr 05 j 21:32	2° ♁ 48'07	-0°58'01	minimum elong	-9805 May 05 j 16:35	1° ♁ 02'35	0°36'35
minimum elong	-9811 Apr 05 j 21:32	2° ♁ 48'07	0°58'32	morning rise	-9805 May 22 j 02:38	2° ♁ 04'00	
morning rise	-9811 Apr 22 j 13:19	3° ♁ 48'54		retrograde	-9805 Aug 21 j 09:19	5° ♁ 25'34	
retrograde	-9811 Jul 23 j 15:24	7° ♁ 07'34		opposition	-9805 Nov 02 j 12:06	3° ♁ 23'16	-0°37'55
opposition	-9811 Oct 04 j 23:55	5° ♁ 05'44	-1°03'12	min. Earth dist.	-9805 Nov 03 j 18:22	3° ♁ 19'57	17.29304 AU
min. Earth dist.	-9811 Oct 06 j 04:56	5° ♁ 02'34	17.59917 AU	direct	-9804 Jan 17 j 22:30	1° ♁ 16'16	
direct	-9811 Dec 19 j 17:27	3° ♁ 00'21		evening set	-9804 Apr 23 j 07:23	4° ♁ 47'29	
evening set	-9810 Mar 25 j 05:47	6° ♁ 25'30		max. Earth dist.	-9804 May 08 j 09:22	5° ♁ 43'59	19.27611 AU
max. Earth dist.	-9810 Apr 09 j 11:51	7° ♁ 21'20	19.56690 AU				
				conjunction	-9804 May 09 j 20:36	5° ♁ 49'32	-0°31'32
conjunction	-9810 Apr 10 j 23:52	7° ♁ 26'52	-0°55'16	minimum elong	-9804 May 09 j 20:36	5° ♁ 49'32	0°31'50
minimum elong	-9810 Apr 10 j 23:53	7° ♁ 26'52	0°55'46	morning rise	-9804 May 26 j 05:24	6° ♁ 50'58	
morning rise	-9810 Apr 27 j 14:56	8° ♁ 27'49		retrograde	-9804 Aug 25 j 09:00	10° ♁ 12'56	
retrograde	-9810 Jul 28 j 13:23	11° ♁ 47'02		opposition	-9804 Nov 06 j 12:58	8° ♁ 10'40	-0°32'32
opposition	-9810 Oct 09 j 19:47	9° ♁ 45'05	-0°59'57	min. Earth dist.	-9804 Nov 07 j 19:46	8° ♁ 07'18	17.26204 AU
min. Earth dist.	-9810 Oct 11 j 02:14	9° ♁ 41'45	17.53672 AU	direct	-9803 Jan 22 j 00:37	6° ♁ 03'36	
direct	-9810 Dec 24 j 15:55	7° ♁ 39'18		evening set	-9803 Apr 28 j 12:38	9° ♁ 35'31	
evening set	-9809 Mar 30 j 09:08	11° ♁ 05'41		max. Earth dist.	-9803 May 13 j 13:50	10° ♁ 32'05	19.24838 AU
max. Earth dist.	-9809 Apr 14 j 14:53	12° ♁ 01'41	19.50615 AU				
				conjunction	-9803 May 15 j 00:40	10° ♁ 37'35	-0°26'34
conjunction	-9809 Apr 16 j 02:44	12° ♁ 07'14	-0°52'08	minimum elong	-9803 May 15 j 00:40	10° ♁ 37'35	0°26'50
minimum elong	-9809 Apr 16 j 02:44	12° ♁ 07'14	0°52'36	morning rise	-9803 May 31 j 08:25	11° ♁ 39'02	
morning rise	-9809 May 02 j 16:51	13° ♁ 08'19		retrograde	-9803 Aug 30 j 11:23	15° ♁ 01'21	
	-9809 Jun 05 j 15:34	15° ♁		opposition	-9803 Nov 11 j 14:37	12° ♁ 59'08	-0°26'53
retrograde	-9809 Aug 02 j 11:56	16° ♁ 28'02		min. Earth dist.	-9803 Nov 12 j 19:47	12° ♁ 55'57	17.23731 AU
	-9809 Oct 01 j 13:04	15° ♁		direct	-9802 Jan 27 j 05:38	10° ♁ 52'04	
opposition	-9809 Oct 14 j 16:33	14° ♁ 25'59	-0°56'17	evening set	-9802 May 03 j 17:51	14° ♁ 24'33	
min. Earth dist.	-9809 Oct 15 j 23:00	14° ♁ 22'39	17.47783 AU	max. Earth dist.	-9802 May 18 j 19:42	15° ♁ 21'23	19.22667 AU
direct	-9809 Dec 29 j 15:20	12° ♁ 19'53					
	-9808 Mar 21 j 02:40	15° ♁		conjunction	-9802 May 20 j 04:49	15° ♁ 26'37	-0°21'25
evening set	-9808 Apr 03 j 12:51	15° ♁ 47'22		minimum elong	-9802 May 20 j 04:49	15° ♁ 26'37	0°21'38
max. Earth dist.	-9808 Apr 18 j 16:39	16° ♁ 43'19	19.44936 AU	morning rise	-9802 Jun 05 j 11:08	16° ♁ 28'02	
				retrograde	-9802 Sep 04 j 12:01	19° ♁ 50'40	
conjunction	-9808 Apr 20 j 05:41	16° ♁ 49'04	-0°48'39	opposition	-9802 Nov 16 j 17:10	17° ♁ 48'32	-0°21'01
minimum elong	-9808 Apr 20 j 05:41	16° ♁ 49'04	0°49'05	min. Earth dist.	-9802 Nov 17 j 22:33	17° ♁ 45'20	17.21858 AU
morning rise	-9808 May 06 j 18:55	17° ♁ 50'16		direct	-9801 Feb 01 j 08:53	15° ♁ 41'30	
retrograde	-9808 Aug 06 j 10:03	21° ♁ 10'30		evening set	-9801 May 08 j 23:12	19° ♁ 14'26	
opposition	-9808 Oct 18 j 14:13	19° ♁ 08'20	-0°52'14	max. Earth dist.	-9801 May 23 j 23:59	20° ♁ 11'14	19.21096 AU
min. Earth dist.	-9808 Oct 19 j 21:48	19° ♁ 04'52	17.42342 AU				
direct	-9807 Jan 02 j 15:22	17° ♁ 01'55		conjunction	-9801 May 25 j 08:47	20° ♁ 16'27	-0°16'06
evening set	-9807 Apr 08 j 17:03	20° ♁ 30'28		minimum elong	-9801 May 25 j 08:47	20° ♁ 16'27	0°16'15
max. Earth dist.	-9807 Apr 23 j 20:33	21° ♁ 26'36	19.39741 AU	morning rise	-9801 Jun 10 j 14:01	21° ♁ 17'49	
				retrograde	-9801 Sep 09 j 15:00	24° ♁ 40'43	
conjunction	-9807 Apr 25 j 09:08	21° ♁ 32'18	-0°44'49	opposition	-9801 Nov 21 j 20:11	22° ♁ 38'38	-0°15'00
minimum elong	-9807 Apr 25 j 09:09	21° ♁ 32'18	0°45'14	min. Earth dist.	-9801 Nov 22 j 23:47	22° ♁ 35'38	17.20571 AU
morning rise	-9807 May 11 j 21:23	22° ♁ 33'35		direct	-9800 Feb 06 j 14:28	20° ♁ 31'39	
retrograde	-9807 Aug 11 j 09:35	25° ♁ 54'17		evening set	-9800 May 13 j 04:12	24° ♁ 04'52	
opposition	-9807 Oct 23 j 12:32	23° ♁ 52'02	-0°47'48	max. Earth dist.	-9800 May 28 j 06:13	25° ♁ 01'59	19.20084 AU

Attention, astronomical year style is used: The year -9800 in astronomical counting style is the year 9801 BCE in historical counting style.

conjunction	-9800 May 29 j 12:42	25° ✕ 06'50	-0°10'39	min. Earth dist.	-9795 Dec 21 j 17:28	21° ° 37'19	17.24417 AU
minimum elong	-9800 May 29 j 12:42	25° ✕ 06'50	0°10'46	direct	-9794 Mar 08 j 02:03	19° ° 33'05	
behind sun begin	-9800 May 29 j 07:35	25° ✕ 06'02		evening set	-9794 Jun 12 j 02:07	23° ° 04'57	
behind sun end	-9800 May 29 j 17:49	25° ✕ 07'37		max. Earth dist.	-9794 Jun 27 j 07:57	24° ° 02'53	19.25676 AU
morning rise	-9800 Jun 14 j 16:30	26° ✕ 08'08					
retrograde	-9800 Sep 13 j 16:27	29° ✕ 31'13		conjunction	-9794 Jun 28 j 02:32	24° ° 05'51	0°22'14
opposition	-9800 Nov 25 j 23:55	27° ✕ 29'11	-0°08'51	minimum elong	-9794 Jun 28 j 02:31	24° ° 05'51	0°22'25
min. Earth dist.	-9800 Nov 27 j 03:16	27° ✕ 26'13	17.19825 AU	morning rise	-9794 Jul 13 j 23:01	25° ° 06'12	
direct	-9799 Feb 10 j 18:51	25° ✕ 22'17		retrograde	-9794 Oct 12 j 23:49	28° ° 29'03	
evening set	-9799 May 18 j 09:15	28° ✕ 55'40		opposition	-9794 Dec 26 j 03:28	26° ° 27'05	0°27'37
max. Earth dist.	-9799 Jun 02 j 10:04	29° ✕ 52'41	19.19615 AU	min. Earth dist.	-9794 Dec 26 j 19:24	26° ° 25'23	17.27125 AU
				direct	-9793 Mar 13 j 09:12	24° ° 21'03	
conjunction	-9799 Jun 03 j 16:15	29° ✕ 57'30	-0°05'08	evening set	-9793 Jun 17 j 03:24	27° ° 52'12	
minimum elong	-9799 Jun 03 j 16:15	29° ✕ 57'30	0°05'12	max. Earth dist.	-9793 Jul 02 j 10:08	28° ° 50'15	19.28712 AU
behind sun begin	-9799 Jun 03 j 09:47	29° ✕ 56'30					
behind sun end	-9799 Jun 03 j 22:43	29° ✕ 58'30		conjunction	-9793 Jul 03 j 02:26	28° ° 52'51	0°27'19
	-9799 Jun 04 j 07:58	0° °		minimum elong	-9793 Jul 03 j 02:26	28° ° 52'51	0°27'32
morning rise	-9799 Jun 19 j 18:55	0° ° 58'42		morning rise	-9793 Jul 18 j 21:51	29° ° 52'58	
retrograde	-9799 Sep 18 j 19:09	4° ° 21'55			-9793 Jul 20 j 19:06	0° °	
opposition	-9799 Dec 01 j 03:56	2° ° 19'56	-0°02'38	retrograde	-9793 Oct 17 j 22:48	3° ° 15'34	
min. Earth dist.	-9799 Dec 02 j 05:27	2° ° 17'10	17.19624 AU	opposition	-9793 Dec 31 j 08:01	1° ° 13'39	0°33'11
direct	-9798 Feb 16 j 00:46	0° ° 13'07		min. Earth dist.	-9793 Dec 31 j 21:59	1° ° 12'09	17.30498 AU
asc. node	-9798 May 05 j 18:13	2° ° 42'33			-9792 Jan 31 j 01:33	30° ° 5'0	
evening set	-9798 May 23 j 13:48	3° ° 46'29		direct	-9792 Mar 17 j 13:34	29° ° 07'51	
					-9792 May 01 j 11:48	0° °	
conjunction	-9798 Jun 08 j 19:37	4° ° 48'12	0°00'31	evening set	-9792 Jun 21 j 03:44	2° ° 38'13	
minimum elong	-9798 Jun 08 j 19:37	4° ° 48'12	0°00'30				
behind sun begin	-9798 Jun 08 j 12:59	4° ° 47'10		conjunction	-9792 Jul 07 j 01:34	3° ° 38'35	0°32'12
behind sun end	-9798 Jun 09 j 02:16	4° ° 49'14		minimum elong	-9792 Jul 07 j 01:34	3° ° 38'35	0°32'27
max. Earth dist.	-9798 Jun 07 j 16:14	4° ° 43'50	19.19686 AU	max. Earth dist.	-9792 Jul 06 j 12:27	3° ° 36'30	19.32412 AU
morning rise	-9798 Jun 24 j 20:51	5° ° 49'16		morning rise	-9792 Jul 22 j 19:57	4° ° 38'27	
retrograde	-9798 Sep 23 j 20:45	9° ° 12'33		retrograde	-9792 Oct 21 j 23:17	8° ° 00'45	
opposition	-9798 Dec 06 j 08:31	7° ° 10'35	0°03'35	opposition	-9791 Jan 04 j 12:20	5° ° 58'54	0°38'30
min. Earth dist.	-9798 Dec 07 j 08:59	7° ° 07'56	17.19958 AU	min. Earth dist.	-9791 Jan 04 j 22:47	5° ° 57'47	17.34506 AU
direct	-9797 Feb 21 j 06:33	5° ° 03'53		direct	-9791 Mar 22 j 19:05	3° ° 53'27	
evening set	-9797 May 28 j 17:52	8° ° 37'06		evening set	-9791 Jun 26 j 03:16	7° ° 22'53	
conjunction	-9797 Jun 13 j 22:10	9° ° 38'38	0°06'07	conjunction	-9791 Jul 11 j 23:52	8° ° 22'58	0°36'50
minimum elong	-9797 Jun 13 j 22:11	9° ° 38'38	0°06'08	minimum elong	-9791 Jul 11 j 23:51	8° ° 22'58	0°37'09
behind sun begin	-9797 Jun 13 j 15:52	9° ° 37'39		max. Earth dist.	-9791 Jul 11 j 13:37	8° ° 21'21	19.36735 AU
behind sun end	-9797 Jun 14 j 04:30	9° ° 39'37		morning rise	-9791 Jul 27 j 17:14	9° ° 22'35	
max. Earth dist.	-9797 Jun 12 j 19:37	9° ° 34'24	19.20306 AU	retrograde	-9791 Oct 26 j 22:03	12° ° 44'34	
morning rise	-9797 Jun 29 j 22:20	10° ° 39'34		opposition	-9790 Jan 09 j 16:32	10° ° 42'49	0°43'32
retrograde	-9797 Sep 28 j 22:17	14° ° 02'50		min. Earth dist.	-9790 Jan 10 j 01:04	10° ° 41'55	17.39137 AU
opposition	-9797 Dec 11 j 13:10	12° ° 00'52	0°09'46	direct	-9790 Mar 27 j 22:02	8° ° 37'43	
min. Earth dist.	-9797 Dec 12 j 11:44	11° ° 58'26	17.20861 AU	evening set	-9790 Jul 01 j 01:58	12° ° 06'11	
direct	-9796 Feb 26 j 12:45	9° ° 54'18					
evening set	-9796 Jun 01 j 21:18	13° ° 07'12		conjunction	-9790 Jul 16 j 21:23	13° ° 05'58	0°41'13
max. Earth dist.	-9796 Jun 17 j 00:59	14° ° 07'49	19.21498 AU	minimum elong	-9790 Jul 16 j 21:22	13° ° 05'57	0°41'33
				max. Earth dist.	-9790 Jul 16 j 14:00	13° ° 04'47	19.41666 AU
conjunction	-9796 Jun 18 j 00:26	14° ° 07'28'34	0°11'35	morning rise	-9790 Aug 01 j 13:55	14° ° 05'19	
minimum elong	-9796 Jun 18 j 00:26	14° ° 07'28'34	0°11'40		-9790 Aug 16 j 18:37	15° °	
behind sun begin	-9796 Jun 17 j 19:42	14° ° 07'27'49		retrograde	-9790 Oct 31 j 22:14	17° ° 26'56	
behind sun end	-9796 Jun 18 j 05:09	14° ° 07'29'18		opposition	-9789 Jan 14 j 20:17	15° ° 25'18	0°48'15
morning rise	-9796 Jul 03 j 23:14	15° ° 07'29'18		min. Earth dist.	-9789 Jan 15 j 01:00	15° ° 24'48	17.44334 AU
retrograde	-9796 Oct 02 j 23:19	18° ° 05'22'29			-9789 Jan 24 j 21:32	15° ° 24'48	
opposition	-9796 Dec 15 j 17:49	16° ° 05'50'32	0°15'52	direct	-9789 Apr 02 j 01:58	13° ° 20'38	
min. Earth dist.	-9796 Dec 16 j 14:33	16° ° 04'48'18	17.22330 AU		-9789 Jun 04 j 02:39	15° °	
direct	-9795 Mar 02 j 19:55	14° ° 04'44'07		evening set	-9789 Jul 05 j 23:37	16° ° 24'8'00	
evening set	-9795 Jun 07 j 00:13	18° ° 04'16'34					
max. Earth dist.	-9795 Jun 22 j 03:53	19° ° 04'14'12	19.23274 AU	conjunction	-9789 Jul 21 j 18:00	17° ° 24'7'29	0°45'18
				minimum elong	-9789 Jul 21 j 18:00	17° ° 24'7'29	0°45'41
conjunction	-9795 Jun 23 j 01:53	19° ° 04'17'42	0°16'59	max. Earth dist.	-9789 Jul 21 j 13:54	17° ° 24'6'50	19.47115 AU
minimum elong	-9795 Jun 23 j 01:52	19° ° 04'17'42	0°17'06	morning rise	-9789 Aug 06 j 09:40	18° ° 24'6'34	
morning rise	-9795 Jul 08 j 23:35	20° ° 04'18'16		retrograde	-9789 Nov 05 j 20:32	22° ° 28'07'47	
retrograde	-9795 Oct 07 j 23:12	23° ° 04'41'18		opposition	-9788 Jan 19 j 23:45	20° ° 28'06'18	0°52'37
opposition	-9795 Dec 20 j 22:40	21° ° 04'39'20	0°21'50	min. Earth dist.	-9788 Jan 20 j 02:50	20° ° 28'05'58	17.50020 AU

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Attention, astronomical year style is used: The year -9788 in astronomical counting style is the year 9789 BCE in historical counting style.

direct	-9788 Apr 06 j 03:53	18°♄02'04		minimum elong	-9782 Aug 21 j 18:50	19°♄47'47	1°04'27
evening set	-9788 Jul 09 j 20:34	21°♄28'17		max. Earth dist.	-9782 Aug 22 j 07:38	19°♄49'46	19.93701 AU
				morning rise	-9782 Sep 06 j 07:30	20°♄44'57	
conjunction	-9788 Jul 25 j 13:51	22°♄27'26	0°49'03	retrograde	-9782 Dec 07 j 17:17	24°♄02'13	
minimum elong	-9788 Jul 25 j 13:51	22°♄27'26	0°49'29	opposition	-9781 Feb 22 j 06:27	22°♄01'27	1°11'43
max. Earth dist.	-9788 Jul 25 j 12:01	22°♄27'09	19.53017 AU	min. Earth dist.	-9781 Feb 21 j 15:43	22°♄02'57	17.97339 AU
morning rise	-9788 Aug 10 j 04:52	23°♄26'15		direct	-9781 May 10 j 06:04	20°♄00'08	
retrograde	-9788 Nov 09 j 19:35	26°♄47'00		evening set	-9781 Aug 10 j 19:44	23°♄16'46	
opposition	-9787 Jan 24 j 02:29	24°♄45'40	0°56'37				
min. Earth dist.	-9787 Jan 24 j 01:56	24°♄45'44	17.56109 AU	conjunction	-9781 Aug 26 j 08:30	24°♄13'40	1°05'00
direct	-9787 Apr 11 j 06:54	22°♄41'53		minimum elong	-9781 Aug 26 j 08:30	24°♄13'40	1°05'35
evening set	-9787 Jul 14 j 16:32	26°♄06'53		max. Earth dist.	-9781 Aug 27 j 00:47	24°♄16'11	20.00949 AU
				morning rise	-9781 Sep 10 j 20:58	25°♄10'34	
conjunction	-9787 Jul 30 j 08:57	27°♄05'43	0°52'28	retrograde	-9781 Dec 12 j 08:57	28°♄27'10	
minimum elong	-9787 Jul 30 j 08:56	27°♄05'43	0°52'55	min. Earth dist.	-9780 Feb 26 j 11:31	26°♄28'09	18.04635 AU
max. Earth dist.	-9787 Jul 30 j 10:30	27°♄05'58	19.59273 AU	opposition	-9780 Feb 27 j 04:08	26°♄26'27	1°12'43
morning rise	-9787 Aug 14 j 23:12	28°♄04'15		direct	-9780 May 14 j 02:35	24°♄25'31	
	-9787 Sep 18 j 19:13	0°♄		evening set	-9780 Aug 14 j 08:48	27°♄40'41	
retrograde	-9787 Nov 14 j 16:23	1°♄24'31					
	-9786 Jan 14 j 08:06	30°♄		conjunction	-9780 Aug 29 j 21:05	28°♄37'17	1°05'43
opposition	-9786 Jan 29 j 05:04	29°♄23'19	1°00'12	minimum elong	-9780 Aug 29 j 21:05	28°♄37'17	1°06'17
min. Earth dist.	-9786 Jan 29 j 02:58	29°♄23'32	17.62524 AU	max. Earth dist.	-9780 Aug 30 j 14:40	28°♄39'59	20.08295 AU
direct	-9786 Apr 16 j 08:21	27°♄19'59		morning rise	-9780 Sep 14 j 09:44	29°♄33'56	
	-9786 Jul 07 j 06:40	0°♄			-9780 Sep 21 j 18:38	0°♄	
evening set	-9786 Jul 19 j 11:33	0°♄43'41		retrograde	-9780 Dec 16 j 01:39	2°♄49'52	
				min. Earth dist.	-9779 Mar 02 j 05:37	0°♄51'10	18.12046 AU
conjunction	-9786 Aug 04 j 02:59	1°♄42'11	0°55'32	opposition	-9779 Mar 03 j 00:50	0°♄49'12	1°13'16
minimum elong	-9786 Aug 04 j 02:59	1°♄42'11	0°56'01		-9779 Mar 23 j 16:32	30°♄	
max. Earth dist.	-9786 Aug 04 j 06:21	1°♄42'43	19.65825 AU	direct	-9779 May 18 j 21:08	28°♄48'39	
morning rise	-9786 Aug 19 j 16:49	2°♄40'27			-9779 Jul 11 j 01:01	0°♄	
retrograde	-9786 Nov 19 j 14:09	6°♄00'12		evening set	-9779 Aug 18 j 20:47	2°♄02'23	
opposition	-9785 Feb 03 j 06:53	3°♄59'06	1°03'23				
min. Earth dist.	-9785 Feb 03 j 01:17	3°♄59'41	17.69195 AU	conjunction	-9779 Sep 03 j 09:02	2°♄58'43	1°06'03
direct	-9785 Apr 21 j 10:00	1°♄56'12		minimum elong	-9779 Sep 03 j 09:02	2°♄58'43	1°06'38
evening set	-9785 Jul 24 j 05:38	5°♄18'34		max. Earth dist.	-9779 Sep 04 j 06:04	3°♄01'55	20.15751 AU
				morning rise	-9779 Sep 18 j 21:39	3°♄55'07	
conjunction	-9785 Aug 08 j 20:26	6°♄16'45	0°58'13	retrograde	-9779 Dec 20 j 16:11	7°♄10'22	
minimum elong	-9785 Aug 08 j 20:26	6°♄16'45	0°58'41	opposition	-9778 Mar 07 j 20:41	5°♄09'49	1°13'24
max. Earth dist.	-9785 Aug 09 j 03:09	6°♄17'48	19.72586 AU	min. Earth dist.	-9778 Mar 06 j 23:19	5°♄12'00	18.19549 AU
morning rise	-9785 Aug 24 j 09:41	7°♄14'43		direct	-9778 May 23 j 15:19	3°♄09'40	
retrograde	-9785 Nov 24 j 09:17	10°♄33'53		evening set	-9778 Aug 23 j 07:58	6°♄22'00	
opposition	-9784 Feb 08 j 07:56	8°♄32'55	1°06'08				
min. Earth dist.	-9784 Feb 08 j 00:54	8°♄33'38	17.76045 AU	conjunction	-9778 Sep 07 j 19:59	7°♄18'03	1°06'01
direct	-9784 Apr 25 j 10:17	6°♄30'26		minimum elong	-9778 Sep 07 j 19:59	7°♄18'03	1°06'35
evening set	-9784 Jul 27 j 22:50	9°♄51'25		max. Earth dist.	-9778 Sep 08 j 18:12	7°♄21'25	20.23295 AU
				morning rise	-9778 Sep 23 j 09:01	8°♄14'13	
conjunction	-9784 Aug 12 j 12:50	10°♄49'16	1°00'30	retrograde	-9778 Dec 25 j 07:28	11°♄28'50	
minimum elong	-9784 Aug 12 j 12:49	10°♄49'16	1°01'01	opposition	-9777 Mar 12 j 15:36	9°♄28'23	1°13'07
max. Earth dist.	-9784 Aug 12 j 20:53	10°♄50'31	19.79512 AU	min. Earth dist.	-9777 Mar 11 j 16:08	9°♄30'46	18.27134 AU
morning rise	-9784 Aug 28 j 01:52	11°♄46'57		direct	-9777 May 28 j 06:51	7°♄28'39	
retrograde	-9784 Nov 28 j 05:19	15°♄05'31		evening set	-9777 Aug 27 j 18:15	10°♄39'37	
opposition	-9783 Feb 12 j 08:14	13°♄04'38	1°08'26				
min. Earth dist.	-9783 Feb 11 j 22:02	13°♄05'41	17.83038 AU	conjunction	-9777 Sep 12 j 06:28	11°♄35'25	1°05'37
direct	-9783 Apr 30 j 10:01	11°♄02'33		minimum elong	-9777 Sep 12 j 06:29	11°♄35'25	1°06'11
evening set	-9783 Aug 01 j 14:46	14°♄22'06		max. Earth dist.	-9777 Sep 13 j 07:47	11°♄39'14	20.30888 AU
				morning rise	-9777 Sep 27 j 19:39	12°♄31'22	
conjunction	-9783 Aug 17 j 04:20	15°♄19'38	1°02'24	retrograde	-9777 Dec 29 j 21:27	15°♄45'20	
minimum elong	-9783 Aug 17 j 04:20	15°♄19'38	1°02'56	min. Earth dist.	-9776 Mar 15 j 07:56	13°♄47'38	18.34722 AU
max. Earth dist.	-9783 Aug 17 j 15:49	15°♄21'25	19.86552 AU	opposition	-9776 Mar 16 j 09:23	13°♄45'03	1°12'26
morning rise	-9783 Sep 01 j 16:58	16°♄17'03		direct	-9776 May 31 j 23:18	11°♄45'45	
retrograde	-9783 Dec 02 j 22:52	19°♄34'59		evening set	-9776 Aug 31 j 03:56	14°♄55'23	
opposition	-9782 Feb 17 j 07:53	17°♄34'10	1°10'18				
min. Earth dist.	-9782 Feb 16 j 20:00	17°♄35'23	17.90131 AU	conjunction	-9776 Sep 15 j 16:05	15°♄50'56	1°04'51
direct	-9782 May 05 j 08:47	15°♄32'29		minimum elong	-9776 Sep 15 j 16:05	15°♄50'56	1°05'25
evening set	-9782 Aug 06 j 05:53	18°♄50'35		max. Earth dist.	-9776 Sep 16 j 18:16	15°♄54'53	20.38460 AU
				morning rise	-9776 Oct 01 j 05:50	16°♄46'42	
conjunction	-9782 Aug 21 j 18:50	19°♄47'47	1°03'54	retrograde	-9775 Jan 02 j 11:30	20°♄00'02	

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Attention, astronomical year style is used: The year -9775 in astronomical counting style is the year 9776 BCE in historical counting style.

min. Earth dist.	-9775 Mar 19 j 23:40	18°02'37	18.42270 AU	conjunction	-9769 Oct 14 j 21:39	14°05'21	0°50'29
opposition	-9775 Mar 21 j 02:34	17°05'54	1°11'22	minimum elong	-9769 Oct 14 j 21:39	14°05'21	0°50'56
direct	-9775 Jun 05 j 12:18	16°01'02		max. Earth dist.	-9769 Oct 16 j 07:30	14°05'17	20.84967 AU
evening set	-9775 Sep 04 j 12:38	19°09'23			-9769 Oct 16 j 19:15	15°00	
				morning rise	-9769 Oct 30 j 16:04	15°04'48'05	
conjunction	-9775 Sep 20 j 01:09	20°04'43	1°03'44	retrograde	-9768 Feb 01 j 21:04	18°05'21	
minimum elong	-9775 Sep 20 j 01:09	20°04'43	1°04'18	min. Earth dist.	-9768 Apr 18 j 17:45	17°01'08	18.87633 AU
max. Earth dist.	-9775 Sep 21 j 06:04	20°09'03	20.45949 AU	opposition	-9768 Apr 20 j 02:31	16°05'51	0°54'08
morning rise	-9775 Oct 05 j 15:12	21°00'17		direct	-9768 Jul 04 j 22:10	15°01'10	
retrograde	-9774 Jan 07 j 01:01	24°13'01		evening set	-9768 Oct 02 j 11:31	18°01'48	
opposition	-9774 Mar 25 j 18:50	22°13'02	1°09'55				
min. Earth dist.	-9774 Mar 24 j 14:08	22°15'56	18.49681 AU	conjunction	-9768 Oct 18 j 03:26	18°05'58	0°47'21
direct	-9774 Jun 10 j 03:29	20°14'36		minimum elong	-9768 Oct 18 j 03:27	18°05'58	0°47'46
evening set	-9774 Sep 08 j 21:02	23°21'42		max. Earth dist.	-9768 Oct 19 j 12:54	19°00'50	20.90077 AU
				morning rise	-9768 Nov 02 j 22:56	19°05'38	
conjunction	-9774 Sep 24 j 09:39	24°16'49	1°02'17	retrograde	-9767 Feb 05 j 05:43	22°05'23	
minimum elong	-9774 Sep 24 j 09:39	24°16'49	1°02'51	min. Earth dist.	-9767 Apr 23 j 04:52	21°03'05	18.92554 AU
max. Earth dist.	-9774 Sep 25 j 15:03	24°21'12	20.53266 AU	opposition	-9767 Apr 24 j 13:01	20°05'51	0°50'31
morning rise	-9774 Oct 10 j 00:27	25°12'13		direct	-9767 Jul 09 j 05:45	19°03'20	
retrograde	-9773 Jan 11 j 13:57	28°24'21		evening set	-9767 Oct 06 j 16:05	22°03'04	
min. Earth dist.	-9773 Mar 29 j 04:52	26°27'28	18.56900 AU				
opposition	-9773 Mar 30 j 10:12	26°24'30	1°08'05	conjunction	-9767 Oct 22 j 08:57	22°05'10	0°44'00
direct	-9773 Jun 14 j 14:52	24°26'27		minimum elong	-9767 Oct 22 j 08:57	22°05'10	0°44'24
evening set	-9773 Sep 13 j 04:42	27°32'22		max. Earth dist.	-9767 Oct 23 j 19:39	23°02'11	20.94811 AU
				morning rise	-9767 Nov 07 j 05:16	23°05'14	
conjunction	-9773 Sep 28 j 17:51	28°27'17	1°00'30	retrograde	-9766 Feb 09 j 14:53	27°00'01	
minimum elong	-9773 Sep 28 j 17:51	28°27'17	1°01'02	opposition	-9766 Apr 28 j 22:36	25°00'29	0°46'41
max. Earth dist.	-9773 Sep 30 j 01:17	28°31'57	20.60344 AU	min. Earth dist.	-9766 Apr 27 j 13:23	25°03'48	18.97099 AU
morning rise	-9773 Oct 14 j 09:06	29°22'32		direct	-9766 Jul 13 j 14:12	23°04'06	
	-9773 Oct 25 j 10:21	0°00		evening set	-9766 Oct 10 j 20:40	26°03'03	
retrograde	-9772 Jan 16 j 02:21	2°03'40					
min. Earth dist.	-9772 Apr 01 j 17:53	0°03'27	18.63821 AU	conjunction	-9766 Oct 26 j 14:11	26°05'03	0°40'27
opposition	-9772 Apr 03 j 00:40	0°03'42	1°05'55	minimum elong	-9766 Oct 26 j 14:11	26°05'03	0°40'49
	-9772 Apr 17 j 11:33	30°00		max. Earth dist.	-9766 Oct 28 j 00:24	27°01'59	20.99176 AU
direct	-9772 Jun 18 j 04:34	28°36'41		morning rise	-9766 Nov 11 j 11:38	27°05'13	
	-9772 Aug 15 j 04:36	0°00			-9766 Dec 25 j 13:27	0°00	
evening set	-9772 Sep 16 j 11:53	1°04'12		retrograde	-9765 Feb 13 j 22:06	0°05'59'25	
					-9765 Apr 07 j 01:35	30°00	
conjunction	-9772 Oct 02 j 01:17	2°03'10	0°58'25	min. Earth dist.	-9765 May 01 j 23:08	29°03'07	19.01298 AU
minimum elong	-9772 Oct 02 j 01:17	2°03'10	0°58'57	opposition	-9765 May 03 j 07:27	28°05'53	0°42'40
max. Earth dist.	-9772 Oct 03 j 08:43	2°04'49	20.67093 AU	direct	-9765 Jul 17 j 20:08	27°03'39	
morning rise	-9772 Oct 17 j 17:22	3°03'16			-9765 Oct 14 j 11:14	0°00	
retrograde	-9771 Jan 19 j 14:11	6°04'21		evening set	-9765 Oct 15 j 00:46	0°01'54	
min. Earth dist.	-9771 Apr 06 j 07:37	4°04'54	18.70400 AU				
opposition	-9771 Apr 07 j 14:29	4°04'23	1°03'25	conjunction	-9765 Oct 30 j 19:19	0°05'51	0°36'44
direct	-9771 Jun 22 j 14:47	2°04'51		minimum elong	-9765 Oct 30 j 19:20	0°05'51	0°37'05
evening set	-9771 Sep 20 j 18:30	5°04'48		max. Earth dist.	-9765 Nov 01 j 06:28	1°00'54	21.03202 AU
				morning rise	-9765 Nov 15 j 17:38	1°05'20	
conjunction	-9771 Oct 06 j 08:35	6°04'32	0°56'02	retrograde	-9764 Feb 18 j 07:12	4°05'46	
minimum elong	-9771 Oct 06 j 08:35	6°04'32	0°56'32	min. Earth dist.	-9764 May 05 j 06:24	3°01'36	19.05143 AU
max. Earth dist.	-9771 Oct 07 j 17:33	6°04'19	20.73476 AU	opposition	-9764 May 06 j 15:36	2°05'16	0°38'27
morning rise	-9771 Oct 22 j 01:17	7°03'26		direct	-9764 Jul 21 j 03:10	1°02'12	
retrograde	-9770 Jan 24 j 01:05	10°04'49		evening set	-9764 Oct 18 j 04:43	3°05'49	
min. Earth dist.	-9770 Apr 10 j 19:13	8°05'29	18.76572 AU				
opposition	-9770 Apr 12 j 03:20	8°04'16	1°00'36	conjunction	-9764 Nov 02 j 24:00	4°05'44	0°32'52
direct	-9770 Jun 27 j 02:59	6°05'21		minimum elong	-9764 Nov 03 j 00:00	4°05'44	0°33'10
evening set	-9770 Sep 25 j 00:42	9°05'46		max. Earth dist.	-9764 Nov 04 j 10:27	4°05'40	21.06867 AU
				morning rise	-9764 Nov 18 j 23:30	5°04'48'12	
conjunction	-9770 Oct 10 j 15:14	10°04'11	0°53'23	retrograde	-9763 Feb 21 j 13:41	8°05'51	
minimum elong	-9770 Oct 10 j 15:15	10°04'11	0°53'52	opposition	-9763 May 10 j 23:25	6°05'52	0°34'03
max. Earth dist.	-9770 Oct 11 j 23:51	10°05'58	20.79435 AU	min. Earth dist.	-9763 May 09 j 15:20	6°05'04	19.08628 AU
morning rise	-9770 Oct 26 j 08:57	11°04'40		direct	-9763 Jul 25 j 07:32	4°05'56	
retrograde	-9769 Jan 28 j 11:35	14°05'52		evening set	-9763 Oct 22 j 08:31	7°05'02	
min. Earth dist.	-9769 Apr 15 j 07:47	12°05'31	18.82322 AU				
opposition	-9769 Apr 16 j 15:29	12°05'42	0°57'30	conjunction	-9763 Nov 07 j 04:55	8°05'55	0°28'50
direct	-9769 Jul 01 j 11:53	10°05'28		minimum elong	-9763 Nov 07 j 04:56	8°05'55	0°29'07
evening set	-9769 Sep 29 j 06:17	13°05'03		max. Earth dist.	-9763 Nov 08 j 15:59	8°05'56	21.10166 AU

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Attention, astronomical year style is used: The year -9763 in astronomical counting style is the year 9764 BCE in historical counting style.

morning rise	-9763 Nov 23 j 05:21	9° <u>0</u> 45'24	behind sun end	-9757 Dec 01 j 19:12	2° <u>0</u> 28'45	
retrograde	-9762 Feb 25 j 22:30	12° <u>0</u> 52'13	max. Earth dist.	-9757 Dec 02 j 17:15	2° <u>0</u> 31'54	21.19431 AU
min. Earth dist.	-9762 May 13 j 21:49	10° <u>0</u> 56'05	19.11716 AU	morning rise	-9757 Dec 17 j 19:27	3° <u>0</u> 22'37
opposition	-9762 May 15 j 06:25	10° <u>0</u> 52'49	0°29'31	retrograde	-9756 Mar 21 j 17:24	6° <u>0</u> 28'36
direct	-9762 Jul 29 j 13:46	8° <u>0</u> 57'02		opposition	-9756 Jun 07 j 17:14	4° <u>0</u> 29'21 0°00'16
evening set	-9762 Oct 26 j 12:28	11° <u>0</u> 53'42		min. Earth dist.	-9756 Jun 06 j 15:43	4° <u>0</u> 31'55 19.19260 AU
				desc. node	-9756 Jun 26 j 23:12	3° <u>0</u> 44'01
conjunction	-9762 Nov 11 j 09:44	12° <u>0</u> 47'36	0°24'40	direct	-9756 Aug 21 j 14:10	2° <u>0</u> 33'44
minimum elong	-9762 Nov 11 j 09:44	12° <u>0</u> 47'36	0°24'55	evening set	-9756 Nov 18 j 14:51	5° <u>0</u> 29'27
max. Earth dist.	-9762 Nov 12 j 19:36	12° <u>0</u> 52'25	21.13040 AU			
morning rise	-9762 Nov 27 j 11:24	13° <u>0</u> 42'05		conjunction	-9756 Dec 04 j 18:22	6° <u>0</u> 23'43 -0°02'01
retrograde	-9761 Mar 02 j 04:52	16° <u>0</u> 48'41		minimum elong	-9756 Dec 04 j 18:23	6° <u>0</u> 23'43 0°02'01
min. Earth dist.	-9761 May 18 j 06:15	14° <u>0</u> 52'27	19.14363 AU	behind sun begin	-9756 Dec 04 j 11:43	6° <u>0</u> 22'48
opposition	-9761 May 19 j 13:11	14° <u>0</u> 49'21	0°24'51	behind sun end	-9756 Dec 05 j 01:02	6° <u>0</u> 24'37
direct	-9761 Aug 02 j 17:00	12° <u>0</u> 53'41		max. Earth dist.	-9756 Dec 05 j 20:46	6° <u>0</u> 27'26 21.18868 AU
evening set	-9761 Oct 30 j 16:20	15° <u>0</u> 50'00		morning rise	-9756 Dec 21 j 02:28	7° <u>0</u> 18'35
				retrograde	-9755 Mar 25 j 23:29	10° <u>0</u> 24'33
conjunction	-9761 Nov 15 j 14:43	16° <u>0</u> 43'56	0°20'24	opposition	-9755 Jun 11 j 22:11	8° <u>0</u> 25'12 -0°04'44
minimum elong	-9761 Nov 15 j 14:43	16° <u>0</u> 43'56	0°20'36	min. Earth dist.	-9755 Jun 10 j 23:17	8° <u>0</u> 27'30 19.18397 AU
max. Earth dist.	-9761 Nov 17 j 00:38	16° <u>0</u> 48'45	21.15451 AU	direct	-9755 Aug 25 j 16:36	6° <u>0</u> 29'26
morning rise	-9761 Dec 01 j 17:18	17° <u>0</u> 38'27		evening set	-9755 Nov 22 j 19:59	9° <u>0</u> 25'13
retrograde	-9760 Mar 05 j 13:06	20° <u>0</u> 44'50				
opposition	-9760 May 22 j 19:19	18° <u>0</u> 45'35	0°20'04	conjunction	-9755 Dec 09 j 00:46	10° <u>0</u> 19'36 -0°06'32
min. Earth dist.	-9760 May 21 j 12:17	18° <u>0</u> 48'42	19.16512 AU	minimum elong	-9755 Dec 09 j 00:45	10° <u>0</u> 19'36 0°06'34
direct	-9760 Aug 05 j 22:40	16° <u>0</u> 50'02		behind sun begin	-9755 Dec 08 j 18:31	10° <u>0</u> 18'45
evening set	-9760 Nov 02 j 20:30	19° <u>0</u> 46'05		behind sun end	-9755 Dec 09 j 07:00	10° <u>0</u> 20'28
				max. Earth dist.	-9755 Dec 10 j 02:13	10° <u>0</u> 23'12 21.17730 AU
conjunction	-9760 Nov 18 j 19:44	20° <u>0</u> 40'02	0°16'03	morning rise	-9755 Dec 25 j 09:46	11° <u>0</u> 14'36
minimum elong	-9760 Nov 18 j 19:44	20° <u>0</u> 40'02	0°16'13	retrograde	-9754 Mar 30 j 07:09	14° <u>0</u> 20'32
max. Earth dist.	-9760 Nov 20 j 03:59	20° <u>0</u> 44'37	21.17337 AU	min. Earth dist.	-9754 Jun 15 j 04:22	12° <u>0</u> 23'19 19.16978 AU
morning rise	-9760 Dec 04 j 23:31	21° <u>0</u> 34'36		opposition	-9754 Jun 16 j 02:35	12° <u>0</u> 21'04 -0°09'42
retrograde	-9759 Mar 09 j 19:34	24° <u>0</u> 40'52		direct	-9754 Aug 29 j 21:28	10° <u>0</u> 25'07
min. Earth dist.	-9759 May 25 j 20:24	22° <u>0</u> 44'32	19.18124 AU	evening set	-9754 Nov 27 j 01:38	13° <u>0</u> 21'05
opposition	-9759 May 27 j 01:20	22° <u>0</u> 41'38	0°15'12			
direct	-9759 Aug 10 j 01:27	20° <u>0</u> 46'09		conjunction	-9754 Dec 13 j 07:20	14° <u>0</u> 15'36 -0°11'00
evening set	-9759 Nov 07 j 00:39	23° <u>0</u> 42'01		minimum elong	-9754 Dec 13 j 07:20	14° <u>0</u> 15'36 0°11'05
				behind sun begin	-9754 Dec 13 j 02:23	14° <u>0</u> 14'55
conjunction	-9759 Nov 23 j 01:07	24° <u>0</u> 36'02	0°11'37	behind sun end	-9754 Dec 13 j 12:17	14° <u>0</u> 16'17
minimum elong	-9759 Nov 23 j 01:07	24° <u>0</u> 36'02	0°11'43	max. Earth dist.	-9754 Dec 14 j 06:24	14° <u>0</u> 18'51 21.16053 AU
behind sun begin	-9759 Nov 22 j 20:26	24° <u>0</u> 35'23		morning rise	-9754 Dec 29 j 17:28	15° <u>0</u> 10'43
behind sun end	-9759 Nov 23 j 05:47	24° <u>0</u> 36'40		retrograde	-9753 Apr 03 j 13:05	18° <u>0</u> 16'41
max. Earth dist.	-9759 Nov 24 j 08:54	24° <u>0</u> 40'32	21.18663 AU	min. Earth dist.	-9753 Jun 19 j 11:30	16° <u>0</u> 19'05 19.15060 AU
morning rise	-9759 Dec 09 j 05:52	25° <u>0</u> 30'39		opposition	-9753 Jun 20 j 07:05	16° <u>0</u> 17'06 -0°14'38
retrograde	-9758 Mar 14 j 03:30	28° <u>0</u> 36'48		direct	-9753 Sep 02 j 23:52	14° <u>0</u> 20'56
min. Earth dist.	-9758 May 30 j 02:19	26° <u>0</u> 40'28	19.19136 AU	evening set	-9753 Dec 01 j 07:21	17° <u>0</u> 17'09
opposition	-9758 May 31 j 06:54	26° <u>0</u> 37'36	0°10'15			
direct	-9758 Aug 14 j 06:37	24° <u>0</u> 42'07		conjunction	-9753 Dec 17 j 14:13	18° <u>0</u> 11'48 -0°15'25
evening set	-9758 Nov 11 j 05:19	27° <u>0</u> 37'52		minimum elong	-9753 Dec 17 j 14:13	18° <u>0</u> 11'48 0°15'32
				behind sun begin	-9753 Dec 17 j 12:46	18° <u>0</u> 11'37
conjunction	-9758 Nov 27 j 06:41	28° <u>0</u> 31'57	0°07'08	behind sun end	-9753 Dec 17 j 15:40	18° <u>0</u> 12'00
minimum elong	-9758 Nov 27 j 06:41	28° <u>0</u> 31'57	0°07'14	max. Earth dist.	-9753 Dec 18 j 12:20	18° <u>0</u> 14'55 21.13911 AU
behind sun begin	-9758 Nov 27 j 00:35	28° <u>0</u> 31'07		morning rise	-9752 Jan 03 j 01:11	19° <u>0</u> 07'03
behind sun end	-9758 Nov 27 j 12:47	28° <u>0</u> 32'47		retrograde	-9752 Apr 06 j 21:11	22° <u>0</u> 13'06
max. Earth dist.	-9758 Nov 28 j 12:14	28° <u>0</u> 36'08	21.19361 AU	opposition	-9752 Jun 23 j 11:18	20° <u>0</u> 13'24 -0°19'29
morning rise	-9758 Dec 13 j 12:38	29° <u>0</u> 26'39		min. Earth dist.	-9752 Jun 22 j 16:17	20° <u>0</u> 15'20 19.12695 AU
	-9758 Dec 23 j 19:41	0° <u>0</u> 32'42		direct	-9752 Sep 06 j 04:23	18° <u>0</u> 17'02
retrograde	-9757 Mar 18 j 09:51	2° <u>0</u> 32'42		evening set	-9752 Dec 04 j 13:42	21° <u>0</u> 13'35
min. Earth dist.	-9757 Jun 03 j 10:09	0° <u>0</u> 36'07	19.19518 AU			
opposition	-9757 Jun 04 j 12:12	0° <u>0</u> 33'29	0°05'16	conjunction	-9752 Dec 20 j 21:29	22° <u>0</u> 08'24 -0°19'47
	-9757 Jun 18 j 13:47	30° <u>0</u> 37'58		minimum elong	-9752 Dec 20 j 21:29	22° <u>0</u> 08'24 0°19'56
direct	-9757 Aug 18 j 09:13	28° <u>0</u> 37'58		max. Earth dist.	-9752 Dec 21 j 17:11	22° <u>0</u> 11'10 21.11339 AU
	-9757 Oct 15 j 09:40	0° <u>0</u> 33'40		morning rise	-9751 Jan 06 j 09:30	23° <u>0</u> 03'48
evening set	-9757 Nov 15 j 09:58	1° <u>0</u> 33'40		retrograde	-9751 Apr 11 j 03:39	26° <u>0</u> 09'59
				opposition	-9751 Jun 27 j 15:40	24° <u>0</u> 10'11 -0°24'16
conjunction	-9757 Dec 01 j 12:34	2° <u>0</u> 27'51	0°02'38	min. Earth dist.	-9751 Jun 26 j 23:17	24° <u>0</u> 11'51 19.09930 AU
minimum elong	-9757 Dec 01 j 12:34	2° <u>0</u> 27'51	0°02'40	direct	-9751 Sep 10 j 07:03	22° <u>0</u> 13'35
behind sun begin	-9757 Dec 01 j 05:56	2° <u>0</u> 26'56		evening set	-9751 Dec 08 j 20:24	25° <u>0</u> 10'34

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Attention, astronomical year style is used: The year -9751 in astronomical counting style is the year 9752 BCE in historical counting style.

conjunction	-9751 Dec 25 j 05:23	26° $\underline{\text{A}}$ 05'34	-0°24'03	minimum elong	-9744 Jan 19 j 18:05	20° M .10'38	0°47'23
minimum elong	-9751 Dec 25 j 05:23	26° $\underline{\text{A}}$ 05'34	0°24'14	max. Earth dist.	-9744 Jan 19 j 22:26	20° M .11'15	20.82458 AU
max. Earth dist.	-9751 Dec 25 j 23:53	26° $\underline{\text{A}}$ 08'10	21.08389 AU	morning rise	-9744 Feb 05 j 11:19	21° M .07'25	
morning rise	-9750 Jan 10 j 18:14	27° $\underline{\text{A}}$ 01'08		retrograde	-9744 May 09 j 22:02	24° M .15'55	
	-9750 Mar 28 j 23:13	0° M .		opposition	-9744 Jul 25 j 03:05	22° M .15'42	-0°53'49
retrograde	-9750 Apr 15 j 12:30	0° M .07'30		min. Earth dist.	-9744 Jul 25 j 00:03	22° M .16'01	18.79596 AU
	-9750 May 03 j 03:30	30° R . $\underline{\text{A}}$		direct	-9744 Oct 07 j 17:27	20° M .17'18	
opposition	-9750 Jul 01 j 19:58	28° $\underline{\text{A}}$ 07'36	-0°28'57	evening set	-9743 Jan 06 j 15:42	23° M .19'42	
min. Earth dist.	-9750 Jul 01 j 04:15	28° $\underline{\text{A}}$ 09'13	19.06782 AU				
direct	-9750 Sep 14 j 11:31	26° $\underline{\text{A}}$ 10'47		conjunction	-9743 Jan 23 j 06:56	24° M .16'21	-0°50'09
evening set	-9750 Dec 13 j 03:54	29° $\underline{\text{A}}$ 08'18		minimum elong	-9743 Jan 23 j 06:56	24° M .16'21	0°50'34
	-9750 Dec 28 j 13:00	0° M .		max. Earth dist.	-9743 Jan 23 j 08:01	24° M .16'30	20.76603 AU
				morning rise	-9743 Feb 09 j 00:43	25° M .13'23	
conjunction	-9750 Dec 29 j 13:44	0° M .03'29	-0°28'14	retrograde	-9743 May 14 j 07:39	28° M .22'20	
minimum elong	-9750 Dec 29 j 13:44	0° M .03'29	0°28'28	opposition	-9743 Jul 29 j 09:39	26° M .22'00	-0°57'13
max. Earth dist.	-9750 Dec 30 j 05:36	0° M .05'43	21.05049 AU	min. Earth dist.	-9743 Jul 29 j 10:01	26° M .21'57	18.73522 AU
morning rise	-9749 Jan 15 j 03:30	0° M .59'14		direct	-9743 Oct 11 j 23:01	24° M .23'12	
retrograde	-9749 Apr 19 j 19:46	4° M .05'50		evening set	-9742 Jan 11 j 04:33	27° M .26'40	
min. Earth dist.	-9749 Jul 05 j 11:32	2° M .07'12	19.03259 AU				
opposition	-9749 Jul 06 j 00:27	2° M .05'53	-0°33'31	conjunction	-9742 Jan 27 j 20:39	28° M .23'35	-0°53'04
direct	-9749 Sep 18 j 14:33	0° M .08'50		minimum elong	-9742 Jan 27 j 20:38	28° M .23'35	0°53'32
evening set	-9749 Dec 17 j 11:49	3° M .06'58		max. Earth dist.	-9742 Jan 27 j 19:07	28° M .23'22	20.70327 AU
				morning rise	-9742 Feb 13 j 14:54	29° M .20'51	
conjunction	-9748 Jan 02 j 22:46	4° M .02'22	-0°32'18		-9742 Feb 25 j 13:33	0° A .	
minimum elong	-9748 Jan 02 j 22:46	4° M .02'22	0°32'34	retrograde	-9742 May 18 j 20:42	2° A .30'16	
max. Earth dist.	-9748 Jan 03 j 13:12	4° M .04'24	21.01351 AU	opposition	-9742 Aug 02 j 16:34	0° A .29'48	-1°00'19
morning rise	-9748 Jan 19 j 13:16	4° M .58'18		min. Earth dist.	-9742 Aug 02 j 18:24	0° A .29'37	18.67042 AU
retrograde	-9748 Apr 23 j 05:35	8° M .05'12			-9742 Aug 14 j 16:04	30° R . M .	
opposition	-9748 Jul 09 j 05:05	6° M .05'12	-0°37'57	direct	-9742 Oct 16 j 08:00	28° M .30'36	
min. Earth dist.	-9748 Jul 08 j 17:00	6° M .06'26	18.99365 AU		-9742 Dec 15 j 23:32	0° A .	
direct	-9748 Sep 21 j 19:41	4° M .07'56		evening set	-9741 Jan 15 j 18:18	1° A .35'09	
evening set	-9748 Dec 20 j 20:29	7° M .06'45					
				conjunction	-9741 Feb 01 j 11:00	2° A .32'21	-0°55'44
conjunction	-9747 Jan 06 j 08:17	8° M .02'23	-0°36'14	minimum elong	-9741 Feb 01 j 10:59	2° A .32'21	0°56'13
minimum elong	-9747 Jan 06 j 08:17	8° M .02'23	0°36'32	max. Earth dist.	-9741 Feb 01 j 06:28	2° A .31'42	20.63657 AU
max. Earth dist.	-9747 Jan 06 j 19:58	8° M .04'02	20.97262 AU	morning rise	-9741 Feb 18 j 05:37	3° A .29'52	
morning rise	-9747 Jan 22 j 23:39	8° M .58'31		retrograde	-9741 May 23 j 07:23	6° A .39'47	
retrograde	-9747 Apr 27 j 13:39	12° M .05'46		opposition	-9741 Aug 07 j 00:04	4° A .39'09	-1°03'08
opposition	-9747 Jul 13 j 10:08	10° M .05'43	-0°42'13	min. Earth dist.	-9741 Aug 07 j 05:08	4° A .38'37	18.60218 AU
min. Earth dist.	-9747 Jul 13 j 01:07	10° M .06'39	18.95079 AU	direct	-9741 Oct 20 j 15:15	2° A .39'30	
direct	-9747 Sep 25 j 23:08	8° M .08'13		evening set	-9740 Jan 20 j 08:44	5° A .45'12	
evening set	-9747 Dec 25 j 06:01	11° M .07'50					
				conjunction	-9740 Feb 06 j 02:06	6° A .42'42	-0°58'07
conjunction	-9746 Jan 10 j 18:51	12° M .03'42	-0°40'00	minimum elong	-9740 Feb 06 j 02:06	6° A .42'42	0°58'37
minimum elong	-9746 Jan 10 j 18:51	12° M .03'42	0°40'20	max. Earth dist.	-9740 Feb 05 j 19:03	6° A .41'41	20.56702 AU
max. Earth dist.	-9746 Jan 11 j 04:38	12° M .05'05	20.92777 AU	morning rise	-9740 Feb 22 j 21:05	7° A .40'28	
morning rise	-9746 Jan 27 j 10:52	13° M .00'02		retrograde	-9740 May 26 j 20:54	10° A .50'54	
	-9746 Mar 09 j 08:49	15° M .		opposition	-9740 Aug 10 j 07:53	8° A .50'06	-1°05'38
retrograde	-9746 May 02 j 00:51	16° M .07'40		min. Earth dist.	-9740 Aug 10 j 14:15	8° A .49'25	18.53144 AU
	-9746 Jun 25 j 18:17	15° R . M .		direct	-9740 Oct 24 j 01:11	6° A .49'58	
opposition	-9746 Jul 17 j 15:14	14° M .07'35	-0°46'18	evening set	-9739 Jan 24 j 00:01	9° A .56'53	
min. Earth dist.	-9746 Jul 17 j 07:30	14° M .08'23	18.90372 AU				
direct	-9746 Sep 30 j 05:31	12° M .09'49		conjunction	-9739 Feb 09 j 17:58	10° A .54'41	-1°00'12
	-9746 Dec 26 j 13:44	15° M .		minimum elong	-9739 Feb 09 j 17:58	10° A .54'41	1°00'44
evening set	-9746 Dec 29 j 16:32	15° M .10'19		max. Earth dist.	-9739 Feb 09 j 08:22	10° A .53'17	20.49517 AU
				morning rise	-9739 Feb 26 j 13:11	11° A .52'41	
conjunction	-9745 Jan 15 j 06:08	16° M .06'25	-0°43'35	retrograde	-9739 May 31 j 08:53	15° A .03'40	
minimum elong	-9745 Jan 15 j 06:08	16° M .06'25	0°43'57	opposition	-9739 Aug 14 j 16:31	13° A .02'43	-1°07'49
max. Earth dist.	-9745 Jan 15 j 12:47	16° M .07'22	20.87842 AU	min. Earth dist.	-9739 Aug 15 j 01:50	13° A .01'44	18.45880 AU
morning rise	-9745 Jan 31 j 22:49	17° M .02'59		direct	-9739 Oct 28 j 10:14	11° A .02'07	
retrograde	-9745 May 06 j 09:38	20° M .11'02		evening set	-9738 Jan 28 j 16:18	14° A .10'18	
opposition	-9745 Jul 21 j 21:02	18° M .10'54	-0°50'11				
min. Earth dist.	-9745 Jul 21 j 16:36	18° M .11'21	18.85215 AU	conjunction	-9738 Feb 14 j 10:45	15° A .08'23	-1°01'59
direct	-9745 Oct 04 j 09:41	16° M .12'50		minimum elong	-9738 Feb 14 j 10:45	15° A .08'23	1°02'30
evening set	-9744 Jan 03 j 03:35	19° M .14'16		max. Earth dist.	-9738 Feb 13 j 22:34	15° A .06'37	20.42191 AU
				morning rise	-9738 Mar 03 j 06:12	16° A .06'40	
conjunction	-9744 Jan 19 j 18:06	20° M .10'38	-0°46'59	retrograde	-9738 Jun 04 j 23:08	19° A .18'13	

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Attention, astronomical year style is used: The year -9738 in astronomical counting style is the year 9739 BCE in historical counting style.

opposition	-9738 Aug 19 j 01:32	17° \mathring{A} 17'06	-1°09'38	max. Earth dist.	-9731 Mar 17 j 05:33	15° \mathring{B} 37'39	19.90692 AU
min. Earth dist.	-9738 Aug 19 j 12:01	17° \mathring{A} 15'59	18.38508 AU				
direct	-9738 Nov 01 j 21:25	15° \mathring{A} 16'03		conjunction	-9731 Mar 18 j 08:39	15° \mathring{B} 41'43	-1°04'35
evening set	-9737 Feb 02 j 09:28	18° \mathring{A} 25'33		minimum elong	-9731 Mar 18 j 08:39	15° \mathring{B} 41'43	1°05'09
				morning rise	-9731 Apr 04 j 02:54	16° \mathring{B} 41'43	
conjunction	-9737 Feb 19 j 04:22	19° \mathring{A} 23'56	-1°03'26	retrograde	-9731 Jul 05 j 18:17	19° \mathring{B} 57'52	
minimum elong	-9737 Feb 19 j 04:22	19° \mathring{A} 23'56	1°04'00	opposition	-9731 Sep 17 j 16:35	17° \mathring{B} 56'17	-1°11'16
max. Earth dist.	-9737 Feb 18 j 14:02	19° \mathring{A} 21'51	20.34773 AU	min. Earth dist.	-9731 Sep 18 j 16:24	17° \mathring{B} 53'42	17.87130 AU
morning rise	-9737 Mar 07 j 23:48	20° \mathring{A} 22'28		direct	-9731 Dec 02 j 01:12	15° \mathring{B} 52'24	
retrograde	-9737 Jun 09 j 12:38	23° \mathring{A} 34'37		evening set	-9730 Mar 06 j 12:50	19° \mathring{B} 12'03	
opposition	-9737 Aug 23 j 11:32	21° \mathring{A} 33'23	-1°11'05	max. Earth dist.	-9730 Mar 22 j 02:11	20° \mathring{B} 07'55	19.83488 AU
min. Earth dist.	-9737 Aug 24 j 00:38	21° \mathring{A} 31'59	18.31081 AU				
direct	-9737 Nov 06 j 08:27	19° \mathring{A} 31'53		conjunction	-9730 Mar 23 j 08:26	20° \mathring{B} 12'29	-1°03'24
evening set	-9736 Feb 07 j 03:23	22° \mathring{A} 42'44		minimum elong	-9730 Mar 23 j 08:27	20° \mathring{B} 12'29	1°03'58
				morning rise	-9730 Apr 09 j 02:21	21° \mathring{B} 12'42	
conjunction	-9736 Feb 23 j 22:36	23° \mathring{A} 41'26	-1°04'34	retrograde	-9730 Jul 10 j 14:18	24° \mathring{B} 29'30	
minimum elong	-9736 Feb 23 j 22:36	23° \mathring{A} 41'26	1°05'07	opposition	-9730 Sep 22 j 08:42	22° \mathring{B} 27'50	-1°09'46
max. Earth dist.	-9736 Feb 23 j 05:43	23° \mathring{A} 38'58	20.27346 AU	min. Earth dist.	-9730 Sep 23 j 09:59	22° \mathring{B} 25'06	17.79968 AU
morning rise	-9736 Mar 11 j 18:10	24° \mathring{A} 40'13		direct	-9730 Dec 06 j 20:06	20° \mathring{B} 23'33	
retrograde	-9736 Jun 13 j 03:49	27° \mathring{A} 53'01		evening set	-9729 Mar 11 j 13:34	23° \mathring{B} 44'38	
opposition	-9736 Aug 26 j 22:09	25° \mathring{A} 51'40	-1°12'10	max. Earth dist.	-9729 Mar 27 j 02:08	24° \mathring{B} 40'38	19.76365 AU
min. Earth dist.	-9736 Aug 27 j 12:16	25° \mathring{A} 50'09	18.23660 AU				
direct	-9736 Nov 09 j 21:15	23° \mathring{A} 49'45		conjunction	-9729 Mar 28 j 09:07	24° \mathring{B} 45'20	-1°01'49
evening set	-9735 Feb 10 j 22:25	27° \mathring{A} 02'01		minimum elong	-9729 Mar 28 j 09:07	24° \mathring{B} 45'20	1°02'22
				morning rise	-9729 Apr 14 j 02:17	25° \mathring{B} 45'45	
conjunction	-9735 Feb 27 j 18:00	28° \mathring{A} 01'01	-1°05'19	retrograde	-9729 Jul 15 j 10:49	29° \mathring{B} 03'10	
minimum elong	-9735 Feb 27 j 18:00	28° \mathring{A} 01'01	1°05'54	opposition	-9729 Sep 27 j 01:52	27° \mathring{B} 01'26	-1°07'48
max. Earth dist.	-9735 Feb 26 j 23:22	27° \mathring{A} 58'16	20.19926 AU	min. Earth dist.	-9729 Sep 28 j 04:43	26° \mathring{B} 58'30	17.72908 AU
morning rise	-9735 Mar 16 j 13:24	29° \mathring{A} 00'03		direct	-9729 Dec 11 j 15:17	24° \mathring{B} 56'44	
	-9735 Apr 03 j 15:20	0° \mathring{B}		evening set	-9728 Mar 15 j 15:03	28° \mathring{B} 19'11	
retrograde	-9735 Jun 17 j 18:59	2° \mathring{B} 13'29		max. Earth dist.	-9728 Mar 31 j 00:24	29° \mathring{B} 14'59	19.69389 AU
opposition	-9735 Aug 31 j 09:35	0° \mathring{B} 12'05	-1°12'51				
min. Earth dist.	-9735 Sep 01 j 02:14	0° \mathring{B} 10'18	18.16263 AU	conjunction	-9728 Apr 01 j 10:08	29° \mathring{B} 20'07	-0°59'49
	-9735 Sep 05 j 02:23	30° \mathring{R} \mathring{A}		minimum elong	-9728 Apr 01 j 10:08	29° \mathring{B} 20'07	1°00'21
direct	-9735 Nov 14 j 10:00	28° \mathring{A} 09'45			-9728 Apr 12 j 08:31	0° \mathring{B}	
	-9734 Jan 21 j 01:17	0° \mathring{B}		morning rise	-9728 Apr 18 j 02:51	0° \mathring{B} 20'45	
evening set	-9734 Feb 15 j 18:35	1° \mathring{B} 23'29		retrograde	-9728 Jul 19 j 07:35	3° \mathring{B} 38'47	
				opposition	-9728 Sep 30 j 19:51	1° \mathring{B} 36'55	-1°05'23
conjunction	-9734 Mar 04 j 14:18	2° \mathring{B} 22'47	-1°05'43	min. Earth dist.	-9728 Oct 02 j 00:05	1° \mathring{B} 33'51	17.66037 AU
minimum elong	-9734 Mar 04 j 14:18	2° \mathring{B} 22'47	1°06'18		-9728 Nov 12 j 08:16	30° \mathring{R} \mathring{B}	
max. Earth dist.	-9734 Mar 03 j 16:48	2° \mathring{B} 19'36	20.12557 AU	direct	-9728 Dec 15 j 11:36	29° \mathring{B} 31'48	
morning rise	-9734 Mar 21 j 09:40	3° \mathring{B} 22'04			-9727 Jan 17 j 07:37	0° \mathring{B}	
retrograde	-9734 Jun 22 j 11:53	6° \mathring{B} 36'11		evening set	-9727 Mar 20 j 17:12	2° \mathring{B} 55'37	
opposition	-9734 Sep 04 j 21:53	4° \mathring{B} 34'43	-1°13'07	max. Earth dist.	-9727 Apr 05 j 02:09	3° \mathring{B} 51'35	19.62629 AU
min. Earth dist.	-9734 Sep 05 j 15:44	4° \mathring{B} 32'48	18.08920 AU				
direct	-9734 Nov 19 j 00:59	2° \mathring{B} 32'00		conjunction	-9727 Apr 06 j 12:03	3° \mathring{B} 56'47	-0°57'26
evening set	-9733 Feb 20 j 15:34	5° \mathring{B} 47'13		minimum elong	-9727 Apr 06 j 12:03	3° \mathring{B} 56'47	0°57'57
				morning rise	-9727 Apr 23 j 03:54	4° \mathring{B} 57'34	
conjunction	-9733 Mar 09 j 11:29	6° \mathring{B} 46'49	-1°05'44	retrograde	-9727 Jul 24 j 05:44	8° \mathring{B} 16'11	
minimum elong	-9733 Mar 09 j 11:29	6° \mathring{B} 46'49	1°06'19	opposition	-9727 Oct 05 j 14:40	6° \mathring{B} 14'13	-1°02'32
max. Earth dist.	-9733 Mar 08 j 12:37	6° \mathring{B} 43'25	20.05222 AU	min. Earth dist.	-9727 Oct 06 j 19:51	6° \mathring{B} 11'02	17.59409 AU
morning rise	-9733 Mar 26 j 06:26	7° \mathring{B} 46'20		direct	-9727 Dec 20 j 09:13	4° \mathring{B} 08'43	
retrograde	-9733 Jun 27 j 04:43	11° \mathring{B} 01'08		evening set	-9726 Mar 25 j 20:10	7° \mathring{B} 33'49	
opposition	-9733 Sep 09 j 11:12	8° \mathring{B} 59'39	-1°12'56	max. Earth dist.	-9726 Apr 10 j 02:19	8° \mathring{B} 29'39	19.56163 AU
min. Earth dist.	-9733 Sep 10 j 07:26	8° \mathring{B} 57'28	18.01613 AU				
direct	-9733 Nov 23 j 15:26	6° \mathring{B} 56'33		conjunction	-9726 Apr 11 j 14:19	8° \mathring{B} 35'11	-0°54'39
evening set	-9732 Feb 25 j 13:43	10° \mathring{B} 13'15		minimum elong	-9726 Apr 11 j 14:19	8° \mathring{B} 35'11	0°55'08
max. Earth dist.	-9732 Mar 12 j 07:37	11° \mathring{B} 09'16	19.97941 AU	morning rise	-9726 Apr 28 j 05:29	9° \mathring{B} 36'09	
				retrograde	-9726 Jul 29 j 03:01	12° \mathring{B} 55'19	
conjunction	-9732 Mar 13 j 09:31	11° \mathring{B} 13'08	-1°05'22	opposition	-9726 Oct 10 j 10:32	10° \mathring{B} 53'15	-0°59'16
minimum elong	-9732 Mar 13 j 09:31	11° \mathring{B} 13'08	1°05'57	min. Earth dist.	-9726 Oct 11 j 16:52	10° \mathring{B} 49'56	17.53135 AU
morning rise	-9732 Mar 30 j 04:20	12° \mathring{B} 12'54		direct	-9726 Dec 25 j 06:46	8° \mathring{B} 47'23	
retrograde	-9732 Jun 30 j 23:31	15° \mathring{B} 28'23		evening set	-9725 Mar 30 j 23:15	12° \mathring{B} 13'42	
opposition	-9732 Sep 13 j 01:18	13° \mathring{B} 26'51	-1°12'20	max. Earth dist.	-9725 Apr 15 j 05:26	13° \mathring{B} 09'46	19.50084 AU
min. Earth dist.	-9732 Sep 13 j 22:57	13° \mathring{B} 24'31	17.94359 AU				
direct	-9732 Nov 27 j 08:26	11° \mathring{B} 23'22		conjunction	-9725 Apr 16 j 16:56	13° \mathring{B} 15'15	-0°51'31
evening set	-9731 Mar 01 j 12:43	14° \mathring{B} 41'33		minimum elong	-9725 Apr 16 j 16:56	13° \mathring{B} 15'15	0°51'59

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Attention, astronomical year style is used: The year -9725 in astronomical counting style is the year 9726 BCE in historical counting style.

morning rise	-9725 May 03 j 07:08	14°≈16'21		retrograde	-9719 Aug 31 j 02:32	16°≈10'31	
	-9725 May 15 j 15:55	15°≈		opposition	-9719 Nov 12 j 05:30	14°≈08'24	-0°26'07
retrograde	-9725 Aug 03 j 02:43	17°≈36'04		min. Earth dist.	-9719 Nov 13 j 10:40	14°≈05'13	17.23825 AU
opposition	-9725 Oct 15 j 07:14	15°≈33'55	-0°55'35	direct	-9718 Jan 27 j 20:11	12°≈01'26	
min. Earth dist.	-9725 Oct 16 j 13:36	15°≈30'35	17.47272 AU	evening set	-9718 May 04 j 08:39	15°≈34'01	
	-9725 Oct 28 j 09:05	15°≈		max. Earth dist.	-9718 May 19 j 10:32	16°≈30'52	19.22755 AU
direct	-9725 Dec 30 j 06:31	13°≈27'44					
	-9724 Feb 29 j 02:46	15°≈		conjunction	-9718 May 20 j 19:40	16°≈36'06	-0°20'44
evening set	-9724 Apr 04 j 03:05	16°≈55'12		minimum elong	-9718 May 20 j 19:40	16°≈36'06	0°20'55
max. Earth dist.	-9724 Apr 19 j 07:14	17°≈51'13	19.44459 AU	morning rise	-9718 Jun 06 j 02:04	17°≈37'33	
				retrograde	-9718 Sep 05 j 03:15	21°≈00'17	
conjunction	-9724 Apr 20 j 19:57	17°≈56'54	-0°48'01	opposition	-9718 Nov 17 j 08:12	18°≈58'13	-0°20'15
minimum elong	-9724 Apr 20 j 19:57	17°≈56'55	0°48'27	min. Earth dist.	-9718 Nov 18 j 13:41	18°≈55'00	17.21928 AU
morning rise	-9724 May 07 j 09:17	18°≈58'07		direct	-9717 Feb 01 j 23:29	16°≈51'16	
retrograde	-9724 Aug 07 j 00:21	22°≈18'23		evening set	-9717 May 09 j 13:59	20°≈24'16	
opposition	-9724 Oct 19 j 04:45	20°≈16'08	-0°51'31				
min. Earth dist.	-9724 Oct 20 j 12:04	20°≈12'42	17.41914 AU	conjunction	-9717 May 25 j 23:38	21°≈26'18	-0°15'25
direct	-9723 Jan 03 j 05:34	18°≈09'40		minimum elong	-9717 May 25 j 23:39	21°≈26'18	0°15'34
evening set	-9723 Apr 09 j 07:17	21°≈38'15		behind sun begin	-9717 May 25 j 22:05	21°≈26'04	
max. Earth dist.	-9723 Apr 24 j 11:22	22°≈34'28	19.39370 AU	behind sun end	-9717 May 26 j 01:12	21°≈26'33	
				max. Earth dist.	-9717 May 24 j 14:48	21°≈21'05	19.21130 AU
conjunction	-9723 Apr 25 j 23:27	22°≈40'05	-0°44'11	morning rise	-9717 Jun 11 j 04:57	22°≈27'42	
minimum elong	-9723 Apr 25 j 23:27	22°≈40'05	0°44'34	retrograde	-9717 Sep 10 j 06:24	25°≈50'41	
morning rise	-9723 May 12 j 11:45	23°≈41'24		opposition	-9717 Nov 22 j 11:17	23°≈48'39	-0°14'14
retrograde	-9723 Aug 12 j 00:57	27°≈02'08		min. Earth dist.	-9717 Nov 23 j 15:01	23°≈45'38	17.20558 AU
opposition	-9723 Oct 24 j 03:12	24°≈59'52	-0°47'04	direct	-9716 Feb 07 j 05:33	21°≈41'43	
min. Earth dist.	-9723 Oct 25 j 09:49	24°≈56'31	17.37097 AU	evening set	-9716 May 13 j 19:13	25°≈15'00	
direct	-9722 Jan 08 j 07:32	22°≈53'12		max. Earth dist.	-9716 May 28 j 20:58	26°≈12'04	19.20015 AU
evening set	-9722 Apr 14 j 11:53	26°≈22'46					
max. Earth dist.	-9722 Apr 29 j 14:45	27°≈19'02	19.34846 AU	conjunction	-9716 May 30 j 03:45	26°≈16'58	-0°09'59
				minimum elong	-9716 May 30 j 03:45	26°≈16'58	0°10'05
conjunction	-9722 May 01 j 03:06	27°≈24'43	-0°40'01	behind sun begin	-9716 May 29 j 22:23	26°≈16'08	
minimum elong	-9722 May 01 j 03:06	27°≈24'43	0°40'24	behind sun end	-9716 May 30 j 09:07	26°≈17'48	
morning rise	-9722 May 17 j 14:17	28°≈26'06		morning rise	-9716 Jun 15 j 07:36	27°≈18'17	
	-9722 Jun 14 j 02:23	0°≈			-9716 Aug 06 j 22:09	0°≈	
retrograde	-9722 Aug 16 j 23:13	1°≈47'20		retrograde	-9716 Sep 14 j 07:32	0°≈41'25	
	-9722 Oct 23 j 09:46	30°≈			-9716 Oct 23 j 20:38	30°≈	
opposition	-9722 Oct 29 j 02:39	29°≈45'04	-0°42'17	opposition	-9716 Nov 26 j 14:56	28°≈39'25	-0°08'07
min. Earth dist.	-9722 Oct 30 j 09:55	29°≈41'38	17.32882 AU	min. Earth dist.	-9716 Nov 27 j 18:34	28°≈36'25	17.19698 AU
direct	-9721 Jan 13 j 08:20	27°≈38'14		direct	-9715 Feb 11 j 09:33	26°≈32'31	
	-9721 Mar 31 j 03:12	0°≈			-9715 May 17 j 10:03	0°≈	
evening set	-9721 Apr 19 j 16:46	1°≈08'44		evening set	-9715 May 19 j 00:22	0°≈05'56	
max. Earth dist.	-9721 May 04 j 19:24	2°≈05'10	19.30943 AU	max. Earth dist.	-9715 Jun 03 j 00:57	1°≈02'56	19.19427 AU
conjunction	-9721 May 06 j 07:02	2°≈10'46	-0°35'34	conjunction	-9715 Jun 04 j 07:26	1°≈07'48	-0°04'30
minimum elong	-9721 May 06 j 07:02	2°≈10'46	0°35'54	minimum elong	-9715 Jun 04 j 07:25	1°≈07'48	0°04'34
morning rise	-9721 May 22 j 17:09	3°≈12'12		behind sun begin	-9715 Jun 04 j 00:53	1°≈06'47	
retrograde	-9721 Aug 22 j 00:46	6°≈33'52		behind sun end	-9715 Jun 04 j 13:58	1°≈08'49	
opposition	-9721 Nov 03 j 02:44	4°≈31'37	-0°37'10	morning rise	-9715 Jun 20 j 10:09	2°≈09'01	
min. Earth dist.	-9721 Nov 04 j 08:46	4°≈28'20	17.29275 AU	retrograde	-9715 Sep 19 j 10:27	5°≈32'15	
direct	-9720 Jan 18 j 12:27	2°≈24'43		opposition	-9715 Dec 01 j 19:01	3°≈30'15	-0°01'56
evening set	-9720 Apr 23 j 21:49	5°≈56'02		min. Earth dist.	-9715 Dec 02 j 20:41	3°≈27'28	17.19373 AU
max. Earth dist.	-9720 May 09 j 00:08	6°≈52'36	19.27638 AU	direct	-9714 Feb 16 j 16:04	1°≈23'24	
				asc. node	-9714 Mar 25 j 03:31	1°≈58'10	
conjunction	-9720 May 10 j 11:07	6°≈58'06	-0°30'51	evening set	-9714 May 24 j 04:49	4°≈56'48	
minimum elong	-9720 May 10 j 11:08	6°≈58'06	0°31'08	max. Earth dist.	-9714 Jun 08 j 07:04	5°≈54'07	19.19376 AU
morning rise	-9720 May 26 j 20:02	7°≈59'34					
retrograde	-9720 Aug 26 j 00:05	11°≈21'39		conjunction	-9714 Jun 09 j 10:42	5°≈58'32	0°01'09
opposition	-9720 Nov 07 j 03:48	9°≈19'28	-0°31'46	minimum elong	-9714 Jun 09 j 10:42	5°≈58'32	0°01'08
min. Earth dist.	-9720 Nov 08 j 10:27	9°≈16'07	17.26267 AU	behind sun begin	-9714 Jun 09 j 04:02	5°≈57'29	
direct	-9719 Jan 22 j 14:43	7°≈12'31		behind sun end	-9714 Jun 09 j 17:21	5°≈59'34	
evening set	-9719 Apr 29 j 03:13	10°≈44'32		morning rise	-9714 Jun 25 j 11:59	6°≈59'36	
max. Earth dist.	-9719 May 14 j 04:47	11°≈41'10	19.24924 AU	retrograde	-9714 Sep 24 j 11:35	10°≈22'53	
				opposition	-9714 Dec 06 j 23:34	8°≈20'53	0°04'15
conjunction	-9719 May 15 j 15:19	11°≈46'37	-0°25'53	min. Earth dist.	-9714 Dec 08 j 00:17	8°≈18'13	17.19595 AU
minimum elong	-9719 May 15 j 15:19	11°≈46'37	0°26'08	direct	-9713 Feb 21 j 21:31	6°≈14'08	
morning rise	-9719 May 31 j 23:07	12°≈48'05		evening set	-9713 May 29 j 09:00	9°≈47'20	

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Attention, astronomical year style is used: The year -9713 in astronomical counting style is the year 9714 BCE in historical counting style.

max. Earth dist.	-9713 Jun	13 j 10:34	10° Υ 44'37	19.19898 AU	minimum elong	-9707 Jul	12 j 15:21	9° \mathcal{B} 33'05	0°37'30
					max. Earth dist.	-9707 Jul	12 j 05:03	9° \mathcal{B} 31'27	19.36509 AU
conjunction	-9713 Jun	14 j 13:23	10° Υ 48'54	0°06'42	morning rise	-9707 Jul	28 j 08:47	10° \mathcal{B} 32'44	
minimum elong	-9713 Jun	14 j 13:23	10° Υ 48'54	0°06'44	retrograde	-9707 Oct	27 j 13:46	13° \mathcal{B} 54'48	
behind sun begin	-9713 Jun	14 j 07:10	10° Υ 47'56		opposition	-9706 Jan	10 j 07:52	11° \mathcal{B} 53'07	0°43'55
behind sun end	-9713 Jun	14 j 19:36	10° Υ 49'52		min. Earth dist.	-9706 Jan	10 j 16:15	11° \mathcal{B} 52'13	17.38936 AU
morning rise	-9713 Jun	30 j 13:35	11° Υ 49'50		direct	-9706 Mar	28 j 12:53	9° \mathcal{B} 48'05	
retrograde	-9713 Sep	29 j 13:16	15° Υ 13'06		evening set	-9706 Jul	01 j 17:27	13° \mathcal{B} 16'40	
opposition	-9713 Dec	12 j 04:02	13° Υ 11'03	0°10'24					
min. Earth dist.	-9713 Dec	13 j 02:42	13° Υ 08'37	17.20418 AU	conjunction	-9706 Jul	17 j 12:56	14° \mathcal{B} 16'28	0°41'32
direct	-9712 Feb	27 j 04:23	11° Υ 04'23		minimum elong	-9706 Jul	17 j 12:56	14° \mathcal{B} 16'28	0°41'53
evening set	-9712 Jun	02 j 12:22	14° Υ 37'18		max. Earth dist.	-9706 Jul	17 j 05:37	14° \mathcal{B} 15'19	19.41481 AU
						-9706 Jul	28 j 23:50	15° \mathcal{B}	
conjunction	-9712 Jun	18 j 15:35	15° Υ 38'40	0°12'08	morning rise	-9706 Aug	02 j 05:31	15° \mathcal{B} 15'52	
minimum elong	-9712 Jun	18 j 15:35	15° Υ 38'40	0°12'13	retrograde	-9706 Nov	01 j 14:25	18° \mathcal{B} 37'35	
behind sun begin	-9712 Jun	18 j 11:06	15° Υ 37'58		opposition	-9705 Jan	15 j 11:48	16° \mathcal{B} 36'03	0°48'35
behind sun end	-9712 Jun	18 j 20:04	15° Υ 39'22		min. Earth dist.	-9705 Jan	15 j 16:37	16° \mathcal{B} 35'32	17.44148 AU
max. Earth dist.	-9712 Jun	17 j 16:03	15° Υ 34'55	19.21028 AU		-9705 Feb	27 j 19:27	15° \mathcal{R} \mathcal{B}	
morning rise	-9712 Jul	04 j 14:27	16° Υ 39'26		direct	-9705 Apr	02 j 17:47	14° \mathcal{B} 31'27	
retrograde	-9712 Oct	03 j 13:48	20° Υ 02'36			-9705 May	05 j 18:41	15° \mathcal{B}	
opposition	-9712 Dec	16 j 08:49	18° Υ 00'33	0°16'27	evening set	-9705 Jul	06 j 15:28	17° \mathcal{B} 58'59	
min. Earth dist.	-9712 Dec	17 j 05:40	17° Υ 58'18	17.21847 AU					
direct	-9711 Mar	03 j 10:57	15° Υ 54'02		conjunction	-9705 Jul	22 j 09:52	18° \mathcal{B} 58'29	0°45'34
evening set	-9711 Jun	07 j 15:14	19° Υ 26'29		minimum elong	-9705 Jul	22 j 09:52	18° \mathcal{B} 58'29	0°45'57
					max. Earth dist.	-9705 Jul	22 j 05:31	18° \mathcal{B} 57'48	19.46922 AU
conjunction	-9711 Jun	23 j 16:56	20° Υ 27'38	0°17'29	morning rise	-9705 Aug	07 j 01:35	19° \mathcal{B} 57'37	
minimum elong	-9711 Jun	23 j 16:56	20° Υ 27'38	0°17'38	retrograde	-9705 Nov	06 j 12:08	23° \mathcal{B} 18'56	
max. Earth dist.	-9711 Jun	22 j 18:53	20° Υ 24'07	19.22785 AU	opposition	-9704 Jan	20 j 15:20	21° \mathcal{B} 17'33	0°52'54
morning rise	-9711 Jul	09 j 14:42	21° Υ 28'12		min. Earth dist.	-9704 Jan	20 j 18:38	21° \mathcal{B} 17'13	17.49809 AU
retrograde	-9711 Oct	08 j 14:27	24° Υ 51'15		direct	-9704 Apr	06 j 18:49	19° \mathcal{B} 13'24	
opposition	-9711 Dec	21 j 13:39	22° Υ 49'12	0°22'22	evening set	-9704 Jul	10 j 12:38	22° \mathcal{B} 39'48	
min. Earth dist.	-9711 Dec	22 j 08:16	22° Υ 47'12	17.23940 AU					
direct	-9710 Mar	08 j 17:12	20° Υ 42'51		conjunction	-9704 Jul	26 j 05:57	23° \mathcal{B} 38'59	0°49'17
evening set	-9710 Jun	12 j 17:14	24° Υ 14'44		minimum elong	-9704 Jul	26 j 05:57	23° \mathcal{B} 38'59	0°49'42
					max. Earth dist.	-9704 Jul	26 j 03:54	23° \mathcal{B} 38'39	19.52775 AU
conjunction	-9710 Jun	28 j 17:43	25° Υ 15'39	0°22'42	morning rise	-9704 Aug	10 j 20:59	24° \mathcal{B} 37'50	
minimum elong	-9710 Jun	28 j 17:43	25° Υ 15'39	0°22'53	retrograde	-9704 Nov	10 j 12:20	27° \mathcal{B} 58'43	
max. Earth dist.	-9710 Jun	27 j 23:13	25° Υ 12'42	19.25219 AU	opposition	-9703 Jan	24 j 18:25	25° \mathcal{B} 57'28	0°56'50
morning rise	-9710 Jul	14 j 14:14	26° Υ 16'00		min. Earth dist.	-9703 Jan	24 j 18:08	25° \mathcal{B} 57'30	17.55828 AU
retrograde	-9710 Oct	13 j 14:48	29° Υ 38'52		direct	-9703 Apr	11 j 22:42	23° \mathcal{B} 53'45	
opposition	-9710 Dec	26 j 18:26	27° Υ 36'51	0°28'07	evening set	-9703 Jul	15 j 08:44	27° \mathcal{B} 18'56	
min. Earth dist.	-9710 Dec	27 j 10:15	27° Υ 35'09	17.26704 AU					
direct	-9709 Mar	13 j 23:46	25° Υ 30'46		conjunction	-9703 Jul	31 j 01:10	28° \mathcal{B} 17'48	0°52'39
evening set	-9709 Jun	17 j 18:30	29° Υ 01'57		minimum elong	-9703 Jul	31 j 01:09	28° \mathcal{B} 17'48	0°53'06
					max. Earth dist.	-9703 Jul	31 j 02:18	28° \mathcal{B} 17'58	19.58941 AU
conjunction	-9709 Jul	03 j 17:36	0° \mathcal{B} 02'36	0°27'45	morning rise	-9703 Aug	15 j 15:26	29° \mathcal{B} 16'22	
minimum elong	-9709 Jul	03 j 17:36	0° \mathcal{B} 02'36	0°27'59		-9703 Aug	27 j 18:32	0° Π	
max. Earth dist.	-9709 Jul	03 j 01:16	0° \mathcal{B} 00'01	19.28327 AU	retrograde	-9703 Nov	15 j 08:53	2° Π 36'46	
	-9709 Jul	03 j 01:13	0° \mathcal{B}		opposition	-9702 Jan	29 j 21:11	0° Π 35'39	1°00'22
morning rise	-9709 Jul	19 j 13:06	1° \mathcal{B} 02'45		min. Earth dist.	-9702 Jan	29 j 19:25	0° Π 35'50	17.62140 AU
retrograde	-9709 Oct	18 j 14:31	4° \mathcal{B} 25'23			-9702 Feb	13 j 07:27	30° \mathcal{R} \mathcal{B}	
opposition	-9709 Dec	31 j 23:07	2° \mathcal{B} 23'25	0°33'39	direct	-9702 Apr	16 j 23:01	28° \mathcal{B} 32'22	
min. Earth dist.	-9708 Jan	01 j 12:45	2° \mathcal{B} 21'58	17.30154 AU		-9702 Jun	15 j 01:31	0° Π	
direct	-9708 Mar	18 j 04:21	0° \mathcal{B} 17'38		evening set	-9702 Jul	20 j 04:02	1° Π 56'15	
evening set	-9708 Jun	21 j 18:58	3° \mathcal{B} 48'03						
					conjunction	-9702 Aug	04 j 19:31	2° Π 54'47	0°55'38
conjunction	-9708 Jul	07 j 16:52	4° \mathcal{B} 48'27	0°32'35	minimum elong	-9702 Aug	04 j 19:31	2° Π 54'47	0°56'06
minimum elong	-9708 Jul	07 j 16:52	4° \mathcal{B} 48'26	0°32'52	max. Earth dist.	-9702 Aug	04 j 22:30	2° Π 55'15	19.65379 AU
max. Earth dist.	-9708 Jul	07 j 03:53	4° \mathcal{B} 46'23	19.32110 AU	morning rise	-9702 Aug	20 j 09:21	3° Π 53'04	
morning rise	-9708 Jul	23 j 11:16	5° \mathcal{B} 48'20		retrograde	-9702 Nov	20 j 07:22	7° Π 12'56	
retrograde	-9708 Oct	22 j 14:51	9° \mathcal{B} 10'42		opposition	-9701 Feb	03 j 23:01	5° Π 11'54	1°03'28
opposition	-9707 Jan	05 j 03:27	7° \mathcal{B} 08'52	0°38'55	min. Earth dist.	-9701 Feb	03 j 17:47	5° Π 12'27	17.68689 AU
min. Earth dist.	-9707 Jan	05 j 13:46	7° \mathcal{B} 07'46	17.34241 AU	direct	-9701 Apr	22 j 02:03	3° Π 09'02	
direct	-9707 Mar	23 j 10:11	5° \mathcal{B} 03'26		evening set	-9701 Jul	24 j 22:10	6° Π 31'34	
evening set	-9707 Jun	26 j 18:43	8° \mathcal{B} 32'59						
					conjunction	-9701 Aug	09 j 13:01	7° Π 29'47	0°58'15
conjunction	-9707 Jul	12 j 15:21	9° \mathcal{B} 33'06	0°37'12	minimum elong	-9701 Aug	09 j 13:01	7° Π 29'46	0°58'46

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Attention, astronomical year style is used: The year -9701 in astronomical counting style is the year 9702 BCE in historical counting style.

max. Earth dist.	-9701 Aug 09 j 19:16	7°II30'45	19.72017 AU	evening set	-9694 Aug 24 j 00:43	7°☾35'56	
morning rise	-9701 Aug 25 j 02:18	8°II27'47					
retrograde	-9701 Nov 25 j 02:12	11°II47'04		conjunction	-9694 Sep 08 j 12:46	8°☾32'00	1°05'40
opposition	-9700 Feb 09 j 00:18	9°II46'07	1°06'09	minimum elong	-9694 Sep 08 j 12:46	8°☾32'00	1°06'15
min. Earth dist.	-9700 Feb 08 j 17:39	9°II46'48	17.75417 AU	max. Earth dist.	-9694 Sep 09 j 11:12	8°☾35'24	20.22904 AU
direct	-9700 Apr 26 j 01:37	7°II43'39		morning rise	-9694 Sep 24 j 01:48	9°☾28'11	
evening set	-9700 Jul 28 j 15:23	11°II04'46		retrograde	-9694 Dec 26 j 00:10	12°☾42'49	
				min. Earth dist.	-9693 Mar 12 j 08:14	10°☾44'46	18.26803 AU
conjunction	-9700 Aug 13 j 05:25	12°II02'38	1°00'29	opposition	-9693 Mar 13 j 07:57	10°☾42'22	1°12'42
minimum elong	-9700 Aug 13 j 05:25	12°II02'38	1°01'00	direct	-9693 May 28 j 23:45	8°☾42'36	
max. Earth dist.	-9700 Aug 13 j 13:14	12°II03'51	19.78830 AU	evening set	-9693 Aug 28 j 11:02	11°☾53'38	
morning rise	-9700 Aug 28 j 18:28	13°II00'22					
retrograde	-9700 Nov 28 j 22:27	16°II19'02		conjunction	-9693 Sep 12 j 23:16	12°☾49'26	1°05'12
opposition	-9699 Feb 13 j 00:37	14°II18'08	1°08'23	minimum elong	-9693 Sep 12 j 23:16	12°☾49'26	1°05'47
min. Earth dist.	-9699 Feb 12 j 14:40	14°II19'09	17.82310 AU	max. Earth dist.	-9693 Sep 14 j 00:46	12°☾53'17	20.30612 AU
direct	-9699 May 01 j 02:41	12°II16'02		morning rise	-9693 Sep 28 j 12:27	13°☾45'24	
evening set	-9699 Aug 02 j 07:25	15°II35'41		retrograde	-9693 Dec 30 j 14:14	16°☾59'23	
				min. Earth dist.	-9692 Mar 16 j 00:26	15°☾01'41	18.34491 AU
conjunction	-9699 Aug 17 j 21:01	16°II33'15	1°02'19	opposition	-9692 Mar 17 j 01:57	14°☾59'06	1°11'58
minimum elong	-9699 Aug 17 j 21:01	16°II33'15	1°02'52	direct	-9692 Jun 01 j 15:37	12°☾59'47	
max. Earth dist.	-9699 Aug 18 j 08:21	16°II35'01	19.85795 AU	evening set	-9692 Aug 31 j 20:42	16°☾09'28	
morning rise	-9699 Sep 02 j 09:41	17°II30'42					
retrograde	-9699 Dec 03 j 15:34	20°II48'43		conjunction	-9692 Sep 16 j 08:51	17°☾05'02	1°04'23
opposition	-9698 Feb 18 j 00:17	18°II47'51	1°10'11	minimum elong	-9692 Sep 16 j 08:51	17°☾05'02	1°04'58
min. Earth dist.	-9698 Feb 17 j 12:40	18°II49'03	17.89355 AU	max. Earth dist.	-9692 Sep 17 j 11:07	17°☾08'59	20.38266 AU
direct	-9698 May 06 j 01:03	16°II46'07		morning rise	-9692 Oct 01 j 22:36	18°☾00'48	
evening set	-9698 Aug 06 j 22:25	20°II04'18		retrograde	-9691 Jan 03 j 04:29	21°☾14'09	
				opposition	-9691 Mar 21 j 19:12	19°☾14'01	1°10'50
conjunction	-9698 Aug 22 j 11:25	21°II01'32	1°03'45	min. Earth dist.	-9691 Mar 20 j 16:10	19°☾16'45	18.42102 AU
minimum elong	-9698 Aug 22 j 11:24	21°II01'32	1°04'19	direct	-9691 Jun 06 j 06:00	17°☾15'08	
max. Earth dist.	-9698 Aug 23 j 00:17	21°II03'31	19.92922 AU	evening set	-9691 Sep 05 j 05:38	20°☾23'32	
morning rise	-9698 Sep 07 j 00:06	21°II58'43					
retrograde	-9698 Dec 08 j 09:36	25°II16'04		conjunction	-9691 Sep 20 j 18:08	21°☾18'52	1°03'13
opposition	-9697 Feb 22 j 22:53	23°II15'14	1°11'33	minimum elong	-9691 Sep 20 j 18:08	21°☾18'52	1°03'48
min. Earth dist.	-9697 Feb 22 j 08:08	23°II16'45	17.96568 AU	max. Earth dist.	-9691 Sep 21 j 23:01	21°☾23'11	20.45797 AU
direct	-9697 May 10 j 22:50	21°II13'51		morning rise	-9691 Oct 06 j 08:11	22°☾14'26	
evening set	-9697 Aug 11 j 12:22	24°II30'33		retrograde	-9690 Jan 07 j 17:45	25°☾27'10	
				min. Earth dist.	-9690 Mar 25 j 06:54	23°☾30'04	18.49537 AU
conjunction	-9697 Aug 27 j 01:08	25°II27'29	1°04'48	opposition	-9690 Mar 26 j 11:29	23°☾27'11	1°09'19
minimum elong	-9697 Aug 27 j 01:07	25°II27'29	1°05'22	direct	-9690 Jun 10 j 20:09	21°☾28'44	
max. Earth dist.	-9697 Aug 27 j 17:33	25°II30'01	20.00202 AU	evening set	-9690 Sep 09 j 14:04	24°☾35'52	
morning rise	-9697 Sep 11 j 13:35	26°II24'24					
retrograde	-9697 Dec 13 j 01:26	29°II41'02		conjunction	-9690 Sep 25 j 02:41	25°☾30'59	1°01'43
opposition	-9696 Feb 27 j 20:28	27°II40'16	1°12'28	minimum elong	-9690 Sep 25 j 02:42	25°☾30'59	1°02'16
min. Earth dist.	-9696 Feb 27 j 03:49	27°II41'59	18.03929 AU	max. Earth dist.	-9690 Sep 26 j 07:51	25°☾35'19	20.53117 AU
direct	-9696 May 14 j 19:02	25°II39'16		morning rise	-9690 Oct 10 j 17:29	26°☾26'23	
evening set	-9696 Aug 15 j 01:29	28°II54'31		retrograde	-9689 Jan 12 j 06:36	29°☾38'31	
				min. Earth dist.	-9689 Mar 29 j 21:42	27°☾41'37	18.56734 AU
conjunction	-9696 Aug 30 j 13:47	29°II51'08	1°05'28	opposition	-9689 Mar 31 j 03:01	27°☾38'40	1°07'27
minimum elong	-9696 Aug 30 j 13:47	29°II51'08	1°06'03	direct	-9689 Jun 15 j 08:34	25°☾40'35	
max. Earth dist.	-9696 Aug 31 j 07:35	29°II53'52	20.07644 AU	evening set	-9689 Sep 13 j 21:48	28°☾46'31	
	-9696 Sep 01 j 23:37	0°☾					
morning rise	-9696 Sep 15 j 02:26	0°☾47'48		conjunction	-9689 Sep 29 j 10:56	29°☾41'26	0°59'54
retrograde	-9696 Dec 16 j 17:45	4°☾03'46		minimum elong	-9689 Sep 29 j 10:56	29°☾41'27	1°00'26
opposition	-9695 Mar 03 j 17:14	2°☾03'04	1°12'58	max. Earth dist.	-9689 Sep 30 j 18:07	29°☾46'04	20.60152 AU
min. Earth dist.	-9695 Mar 02 j 21:44	2°☾05'04	18.11455 AU		-9689 Oct 04 j 16:01	0°♈	
direct	-9695 May 19 j 13:35	0°☾02'27		morning rise	-9689 Oct 15 j 02:10	0°♈36'40	
evening set	-9695 Aug 19 j 13:23	3°☾16'16		retrograde	-9688 Jan 16 j 19:00	3°♈48'12	
				min. Earth dist.	-9688 Apr 02 j 10:53	1°♈51'33	18.63599 AU
conjunction	-9695 Sep 04 j 01:40	4°☾12'36	1°05'45	opposition	-9688 Apr 03 j 17:28	1°♈48'28	1°05'13
minimum elong	-9695 Sep 04 j 01:40	4°☾12'36	1°06'19		-9688 May 30 j 16:56	30°♈☾	
max. Earth dist.	-9695 Sep 04 j 22:59	4°☾15'51	20.15226 AU	direct	-9688 Jun 18 j 21:27	29°☾50'45	
morning rise	-9695 Sep 19 j 14:17	5°☾09'01			-9688 Jul 07 j 19:11	0°♈	
retrograde	-9695 Dec 21 j 08:47	8°☾24'18		evening set	-9688 Sep 17 j 05:06	2°♈55'31	
opposition	-9694 Mar 08 j 13:09	6°☾23'44	1°13'02				
min. Earth dist.	-9694 Mar 07 j 15:36	6°☾25'55	18.19090 AU	conjunction	-9688 Oct 02 j 18:30	3°♈50'15	0°57'47
direct	-9694 May 24 j 07:39	4°☾23'33		minimum elong	-9688 Oct 02 j 18:30	3°♈50'15	0°58'17

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Attention, astronomical year style is used: The year -9688 in astronomical counting style is the year 9689 BCE in historical counting style.

max. Earth dist.	-9688 Oct 04 j 01:34	3°Ω54'50	20.66840 AU	opposition	-9681 May 03 j 23:56	0°♊13'11	0°41'50
morning rise	-9688 Oct 18 j 10:35	4°Ω45'21		min. Earth dist.	-9681 May 02 j 15:12	0°♊16'27	19.01366 AU
retrograde	-9687 Jan 20 j 06:13	7°Ω56'17			-9681 May 09 j 11:58	30°♊	
min. Earth dist.	-9687 Apr 07 j 00:34	5°Ω59'43	18.70110 AU	direct	-9681 Jul 18 j 12:12	28°Ω16'58	
opposition	-9687 Apr 08 j 07:21	5°Ω56'38	1°02'41		-9681 Sep 21 j 21:27	0°♊	
direct	-9687 Jun 23 j 07:58	3°Ω59'12		evening set	-9681 Oct 15 j 17:13	1°♊15'13	
evening set	-9687 Sep 21 j 11:33	7°Ω02'51					
conjunction	-9687 Oct 07 j 01:40	7°Ω57'26	0°55'22	conjunction	-9681 Oct 31 j 11:44	2°♊09'11	0°35'59
minimum elong	-9687 Oct 07 j 01:40	7°Ω57'26	0°55'52	minimum elong	-9681 Oct 31 j 11:44	2°♊09'11	0°36'18
max. Earth dist.	-9687 Oct 08 j 10:28	8°Ω02'15	20.73153 AU	max. Earth dist.	-9681 Nov 01 j 23:17	2°♊14'17	21.03356 AU
morning rise	-9687 Oct 22 j 18:23	8°Ω52'23		morning rise	-9681 Nov 16 j 10:00	3°♊03'40	
retrograde	-9686 Jan 24 j 17:56	12°Ω02'45		retrograde	-9680 Feb 18 j 23:14	6°♊11'07	
opposition	-9686 Apr 12 j 20:12	10°Ω03'09	0°59'50	min. Earth dist.	-9680 May 05 j 22:26	4°♊15'01	19.05386 AU
min. Earth dist.	-9686 Apr 11 j 12:18	10°Ω06'21	18.76216 AU	opposition	-9680 May 07 j 08:02	4°♊11'40	0°37'36
direct	-9686 Jun 27 j 19:45	8°Ω05'59		direct	-9680 Jul 21 j 19:41	2°♊15'38	
evening set	-9686 Sep 25 j 17:44	11°Ω08'33		evening set	-9680 Oct 18 j 21:13	5°♊13'16	
conjunction	-9686 Oct 11 j 08:17	12°Ω02'59	0°52'41	conjunction	-9680 Nov 03 j 16:29	6°♊07'11	0°32'06
minimum elong	-9686 Oct 11 j 08:18	12°Ω02'59	0°53'09	minimum elong	-9680 Nov 03 j 16:29	6°♊07'11	0°32'25
max. Earth dist.	-9686 Oct 12 j 16:46	12°Ω07'44	20.79063 AU	max. Earth dist.	-9680 Nov 05 j 03:10	6°♊12'09	21.07199 AU
morning rise	-9686 Oct 27 j 02:00	12°Ω57'50		morning rise	-9680 Nov 19 j 15:57	7°♊01'39	
retrograde	-9686 Dec 06 j 17:09	15°Ω		retrograde	-9679 Feb 22 j 06:59	10°♊08'46	
	-9685 Jan 29 j 03:21	16°Ω07'37		min. Earth dist.	-9679 May 10 j 07:18	8°♊12'37	19.09041 AU
	-9685 Mar 25 j 23:16	15°♊		opposition	-9679 May 11 j 15:48	8°♊09'22	0°33'13
min. Earth dist.	-9685 Apr 16 j 00:30	14°Ω11'12	18.81940 AU	direct	-9679 Jul 26 j 00:00	6°♊13'31	
opposition	-9685 Apr 17 j 08:07	14°Ω08'02	0°56'43	evening set	-9679 Oct 23 j 00:57	9°♊10'36	
direct	-9685 Jul 02 j 04:23	12°Ω11'05		conjunction	-9679 Nov 07 j 21:21	10°♊04'30	0°28'04
	-9685 Sep 26 j 05:34	15°Ω		minimum elong	-9679 Nov 07 j 21:21	10°♊04'30	0°28'20
evening set	-9685 Sep 29 j 23:10	15°Ω12'39		max. Earth dist.	-9679 Nov 09 j 08:42	10°♊09'33	21.10654 AU
conjunction	-9685 Oct 15 j 14:33	16°Ω06'57	0°49'46	morning rise	-9679 Nov 23 j 21:45	10°♊58'58	
minimum elong	-9685 Oct 15 j 14:34	16°Ω06'57	0°50'13	retrograde	-9678 Feb 26 j 14:42	14°♊05'47	
max. Earth dist.	-9685 Oct 17 j 00:34	16°Ω11'54	20.84597 AU	opposition	-9678 May 15 j 22:52	12°♊06'28	0°28'41
morning rise	-9685 Oct 31 j 08:58	17°Ω01'41		min. Earth dist.	-9678 May 14 j 13:58	12°♊09'46	19.12267 AU
retrograde	-9684 Feb 02 j 13:44	20°Ω10'55		direct	-9678 Jul 30 j 05:59	10°♊10'46	
min. Earth dist.	-9684 Apr 19 j 10:26	18°Ω14'38	18.87286 AU	evening set	-9678 Oct 27 j 05:00	13°♊07'25	
opposition	-9684 Apr 20 j 19:10	18°Ω11'21	0°53'20	conjunction	-9678 Nov 12 j 02:11	14°♊01'18	0°23'55
direct	-9684 Jul 05 j 14:56	16°Ω14'36		minimum elong	-9678 Nov 12 j 02:11	14°♊01'18	0°24'08
evening set	-9684 Oct 03 j 04:11	19°Ω15'13		max. Earth dist.	-9678 Nov 13 j 12:10	14°♊06'09	21.13648 AU
conjunction	-9684 Oct 18 j 20:05	20°Ω09'24	0°46'37	morning rise	-9678 Nov 28 j 03:47	14°♊55'47	
minimum elong	-9684 Oct 18 j 20:06	20°Ω09'24	0°47'02	retrograde	-9677 Mar 02 j 21:33	18°♊02'21	
max. Earth dist.	-9684 Oct 20 j 05:49	20°Ω14'18	20.89770 AU	min. Earth dist.	-9677 May 18 j 22:21	16°♊06'13	19.15020 AU
morning rise	-9684 Nov 03 j 15:35	21°Ω04'03		opposition	-9677 May 20 j 05:30	16°♊03'06	0°24'00
retrograde	-9683 Feb 05 j 22:12	24°Ω12'47		direct	-9677 Aug 03 j 09:38	14°♊07'30	
min. Earth dist.	-9683 Apr 23 j 21:15	22°Ω16'27	18.92303 AU	evening set	-9677 Oct 31 j 08:55	17°♊03'48	
opposition	-9683 Apr 25 j 05:37	22°Ω13'13	0°49'42	conjunction	-9677 Nov 16 j 07:16	17°♊57'42	0°19'39
direct	-9683 Jul 09 j 21:46	20°Ω16'39		minimum elong	-9677 Nov 16 j 07:16	17°♊57'42	0°19'50
evening set	-9683 Oct 07 j 08:47	23°Ω16'23		max. Earth dist.	-9677 Nov 17 j 17:21	18°♊02'33	21.16147 AU
conjunction	-9683 Oct 23 j 01:38	24°Ω10'28	0°43'16	morning rise	-9677 Dec 02 j 09:46	18°♊52'12	
minimum elong	-9683 Oct 23 j 01:38	24°Ω10'28	0°43'39	retrograde	-9676 Mar 06 j 05:30	21°♊58'33	
max. Earth dist.	-9683 Oct 24 j 12:44	24°Ω15'33	20.94624 AU	min. Earth dist.	-9676 May 22 j 04:36	20°♊02'28	19.17238 AU
morning rise	-9683 Nov 07 j 21:55	25°Ω05'03		opposition	-9676 May 23 j 11:43	19°♊59'21	0°19'14
retrograde	-9682 Feb 10 j 07:09	28°Ω13'18		direct	-9676 Aug 06 j 14:53	18°♊03'51	
min. Earth dist.	-9682 Apr 28 j 05:35	26°Ω17'06	18.96993 AU	evening set	-9676 Nov 03 j 13:00	20°♊59'51	
opposition	-9682 Apr 29 j 15:01	26°Ω13'45	0°45'52	conjunction	-9676 Nov 19 j 12:11	21°♊53'47	0°15'18
direct	-9682 Jul 14 j 06:58	24°Ω17'22		minimum elong	-9676 Nov 19 j 12:11	21°♊53'47	0°15'26
evening set	-9682 Oct 11 j 13:14	27°Ω16'20		behind sun begin	-9676 Nov 19 j 10:19	21°♊53'31	
conjunction	-9682 Oct 27 j 06:45	28°Ω10'20	0°39'43	behind sun end	-9676 Nov 19 j 14:03	21°♊54'02	
minimum elong	-9682 Oct 27 j 06:45	28°Ω10'20	0°40'05	max. Earth dist.	-9676 Nov 20 j 20:29	21°♊58'22	21.18081 AU
max. Earth dist.	-9682 Oct 28 j 17:15	28°Ω15'19	20.99153 AU	morning rise	-9676 Dec 05 j 15:56	22°♊48'19	
morning rise	-9682 Nov 12 j 04:11	29°Ω04'52		retrograde	-9675 Mar 10 j 11:49	25°♊54'31	
	-9682 Nov 29 j 04:10	0°♊		opposition	-9675 May 27 j 17:47	23°♊55'20	0°14'22
retrograde	-9681 Feb 14 j 15:24	2°♊12'42		min. Earth dist.	-9675 May 26 j 12:49	23°♊58'14	19.18878 AU
				direct	-9675 Aug 10 j 18:00	21°♊59'52	

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Attention, astronomical year style is used: The year -9675 in astronomical counting style is the year 9676 BCE in historical counting style.

evening set	-9675 Nov 07 j 17:15	24° <u>᠓</u> 55'38		minimum elong	-9670 Dec 13 j 23:07	15° <u>᠘</u> 26'53	0°11'41
				behind sun begin	-9670 Dec 13 j 18:25	15° <u>᠘</u> 26'14	
conjunction	-9675 Nov 23 j 17:40	25° <u>᠓</u> 49'37	0°10'53	behind sun end	-9670 Dec 14 j 03:48	15° <u>᠘</u> 27'31	
minimum elong	-9675 Nov 23 j 17:40	25° <u>᠓</u> 49'37	0°11'00	max. Earth dist.	-9670 Dec 14 j 22:28	15° <u>᠘</u> 30'10	21.17131 AU
behind sun begin	-9675 Nov 23 j 12:41	25° <u>᠓</u> 48'56		morning rise	-9670 Dec 30 j 09:10	16° <u>᠘</u> 21'57	
behind sun end	-9675 Nov 23 j 22:39	25° <u>᠓</u> 50'18		retrograde	-9669 Apr 04 j 04:38	19° <u>᠘</u> 27'45	
max. Earth dist.	-9675 Nov 25 j 01:32	25° <u>᠓</u> 54'08	21.19418 AU	opposition	-9669 Jun 20 j 22:52	17° <u>᠘</u> 28'10	-0°15'16
morning rise	-9675 Dec 09 j 22:22	26° <u>᠓</u> 44'13		min. Earth dist.	-9669 Jun 20 j 02:50	17° <u>᠘</u> 30'11	19.16230 AU
retrograde	-9674 Mar 14 j 19:53	29° <u>᠓</u> 50'14		direct	-9669 Sep 03 j 16:11	15° <u>᠘</u> 32'02	
opposition	-9674 May 31 j 23:12	27° <u>᠓</u> 51'03	0°09'27	evening set	-9669 Dec 01 j 23:08	18° <u>᠘</u> 28'04	
min. Earth dist.	-9674 May 30 j 18:42	27° <u>᠓</u> 53'55	19.19891 AU				
direct	-9674 Aug 14 j 23:03	25° <u>᠓</u> 55'34		conjunction	-9669 Dec 18 j 05:57	19° <u>᠘</u> 22'42	-0°15'59
evening set	-9674 Nov 11 j 21:49	28° <u>᠓</u> 51'12		minimum elong	-9669 Dec 18 j 05:56	19° <u>᠘</u> 22'42	0°16'07
				max. Earth dist.	-9669 Dec 19 j 04:29	19° <u>᠘</u> 25'52	21.15172 AU
conjunction	-9674 Nov 27 j 23:09	29° <u>᠓</u> 45'15	0°06'26	morning rise	-9668 Jan 03 j 16:50	20° <u>᠘</u> 17'53	
minimum elong	-9674 Nov 27 j 23:09	29° <u>᠓</u> 45'15	0°06'30	retrograde	-9668 Apr 07 j 12:35	23° <u>᠘</u> 23'47	
behind sun begin	-9674 Nov 27 j 16:55	29° <u>᠓</u> 44'24		min. Earth dist.	-9668 Jun 23 j 07:30	21° <u>᠘</u> 26'07	19.14057 AU
behind sun end	-9674 Nov 28 j 05:24	29° <u>᠓</u> 46'06		opposition	-9668 Jun 24 j 03:01	21° <u>᠘</u> 24'08	-0°20'05
max. Earth dist.	-9674 Nov 29 j 04:41	29° <u>᠓</u> 49'25	21.20117 AU	direct	-9668 Sep 06 j 20:40	19° <u>᠘</u> 27'50	
	-9674 Dec 02 j 07:34	0° <u>᠘</u>		evening set	-9668 Dec 05 j 05:16	22° <u>᠘</u> 24'14	
morning rise	-9674 Dec 14 j 05:04	0° <u>᠘</u> 39'54					
retrograde	-9673 Mar 19 j 01:39	3° <u>᠘</u> 45'49		conjunction	-9668 Dec 21 j 12:59	23° <u>᠘</u> 19'00	-0°20'18
min. Earth dist.	-9673 Jun 04 j 02:32	1° <u>᠘</u> 49'12	19.20275 AU	minimum elong	-9668 Dec 21 j 12:59	23° <u>᠘</u> 19'00	0°20'27
opposition	-9673 Jun 05 j 04:35	1° <u>᠘</u> 46'35	0°04'30	max. Earth dist.	-9668 Dec 22 j 09:04	23° <u>᠘</u> 21'50	21.12797 AU
	-9673 Jul 31 j 06:28	30° <u>᠙</u> ᠓		morning rise	-9667 Jan 07 j 00:58	24° <u>᠘</u> 14'22	
direct	-9673 Aug 19 j 01:49	29° <u>᠓</u> 51'02		retrograde	-9667 Apr 11 j 19:09	27° <u>᠘</u> 20'25	
	-9673 Sep 06 j 16:53	0° <u>᠘</u>		opposition	-9667 Jun 28 j 07:23	25° <u>᠘</u> 20'42	-0°24'50
evening set	-9673 Nov 16 j 02:14	2° <u>᠘</u> 46'35		min. Earth dist.	-9667 Jun 27 j 14:29	25° <u>᠘</u> 22'25	19.11482 AU
				direct	-9667 Sep 10 j 22:43	23° <u>᠘</u> 24'13	
conjunction	-9673 Dec 02 j 04:48	3° <u>᠘</u> 40'42	0°01'56	evening set	-9667 Dec 09 j 11:56	26° <u>᠘</u> 21'04	
minimum elong	-9673 Dec 02 j 04:47	3° <u>᠘</u> 40'42	0°01'58				
behind sun begin	-9673 Dec 01 j 22:08	3° <u>᠘</u> 39'47		conjunction	-9667 Dec 25 j 20:51	27° <u>᠘</u> 16'02	-0°24'33
behind sun end	-9673 Dec 02 j 11:26	3° <u>᠘</u> 41'37		minimum elong	-9667 Dec 25 j 20:51	27° <u>᠘</u> 16'02	0°24'45
max. Earth dist.	-9673 Dec 03 j 09:40	3° <u>᠘</u> 44'47	21.20199 AU	max. Earth dist.	-9667 Dec 26 j 15:51	27° <u>᠘</u> 18'42	21.10029 AU
morning rise	-9673 Dec 18 j 11:37	4° <u>᠘</u> 35'26		morning rise	-9666 Jan 11 j 09:37	28° <u>᠘</u> 11'33	
retrograde	-9672 Mar 22 j 09:27	7° <u>᠘</u> 41'15			-9666 Feb 16 j 23:04	0° <u>᠓</u>	
desc. node	-9672 May 05 j 00:45	6° <u>᠘</u> 58'21		retrograde	-9666 Apr 16 j 03:56	1° <u>᠓</u> .17'48	
min. Earth dist.	-9672 Jun 07 j 07:54	5° <u>᠘</u> 44'31	19.20048 AU		-9666 Jun 15 j 00:03	30° <u>᠙</u> ᠘	
opposition	-9672 Jun 08 j 09:28	5° <u>᠘</u> 41'57	-0°00'29	opposition	-9666 Jul 02 j 11:31	29° <u>᠘</u> 18'03	-0°29'29
direct	-9672 Aug 22 j 06:45	3° <u>᠘</u> 46'18		min. Earth dist.	-9666 Jul 01 j 19:23	29° <u>᠘</u> 19'42	19.08506 AU
evening set	-9672 Nov 19 j 07:06	6° <u>᠘</u> 41'50		direct	-9666 Sep 15 j 03:32	27° <u>᠘</u> 21'23	
					-9666 Dec 08 j 01:19	0° <u>᠓</u>	
conjunction	-9672 Dec 05 j 10:34	7° <u>᠘</u> 36'03	-0°02'42	evening set	-9666 Dec 13 j 19:21	0° <u>᠓</u> .18'47	
minimum elong	-9672 Dec 05 j 10:33	7° <u>᠘</u> 36'03	0°02'42				
behind sun begin	-9672 Dec 05 j 03:55	7° <u>᠘</u> 35'09		conjunction	-9666 Dec 30 j 05:07	1° <u>᠓</u> .13'56	-0°28'42
behind sun end	-9672 Dec 05 j 17:12	7° <u>᠘</u> 36'58		minimum elong	-9666 Dec 30 j 05:07	1° <u>᠓</u> .13'56	0°28'55
max. Earth dist.	-9672 Dec 06 j 13:05	7° <u>᠘</u> 39'47	21.19691 AU	max. Earth dist.	-9666 Dec 30 j 21:23	1° <u>᠓</u> .16'14	21.06853 AU
morning rise	-9672 Dec 21 j 18:36	8° <u>᠘</u> 30'53		morning rise	-9665 Jan 15 j 18:51	2° <u>᠓</u> .09'38	
retrograde	-9671 Mar 26 j 15:02	11° <u>᠘</u> 36'39		retrograde	-9665 Apr 20 j 11:10	5° <u>᠓</u> .16'09	
opposition	-9671 Jun 12 j 14:12	9° <u>᠘</u> 37'15	-0°05'26	opposition	-9665 Jul 06 j 16:05	3° <u>᠓</u> .16'22	-0°34'00
min. Earth dist.	-9671 Jun 11 j 15:09	9° <u>᠘</u> 39'34	19.19270 AU	min. Earth dist.	-9665 Jul 06 j 02:49	3° <u>᠓</u> .17'44	19.05128 AU
direct	-9671 Aug 26 j 09:16	7° <u>᠘</u> 41'27		direct	-9665 Sep 19 j 05:53	1° <u>᠓</u> .19'31	
evening set	-9671 Nov 23 j 12:02	10° <u>᠘</u> 37'03		evening set	-9665 Dec 18 j 03:05	4° <u>᠓</u> .17'32	
conjunction	-9671 Dec 09 j 16:46	11° <u>᠘</u> 31'24	-0°07'10	conjunction	-9664 Jan 03 j 13:59	5° <u>᠓</u> .12'54	-0°32'43
minimum elong	-9671 Dec 09 j 16:46	11° <u>᠘</u> 31'24	0°07'13	minimum elong	-9664 Jan 03 j 13:58	5° <u>᠓</u> .12'54	0°33'00
behind sun begin	-9671 Dec 09 j 10:38	11° <u>᠘</u> 30'34		max. Earth dist.	-9664 Jan 04 j 04:55	5° <u>᠓</u> .15'00	21.03274 AU
behind sun end	-9671 Dec 09 j 22:53	11° <u>᠘</u> 32'14		morning rise	-9664 Jan 20 j 04:24	6° <u>᠓</u> .08'47	
max. Earth dist.	-9671 Dec 10 j 18:33	11° <u>᠘</u> 35'02	21.18660 AU	retrograde	-9664 Apr 23 j 21:01	9° <u>᠓</u> .15'36	
morning rise	-9671 Dec 26 j 01:43	12° <u>᠘</u> 26'20		opposition	-9664 Jul 09 j 20:41	7° <u>᠓</u> .15'48	-0°38'24
retrograde	-9670 Mar 30 j 22:47	15° <u>᠘</u> 32'05		min. Earth dist.	-9664 Jul 09 j 08:26	7° <u>᠓</u> .17'03	19.01328 AU
opposition	-9670 Jun 16 j 18:34	13° <u>᠘</u> 32'36	-0°10'22	direct	-9664 Sep 22 j 11:08	5° <u>᠓</u> .18'44	
min. Earth dist.	-9670 Jun 15 j 20:02	13° <u>᠘</u> 34'53	19.17980 AU	evening set	-9664 Dec 21 j 11:54	8° <u>᠓</u> .17'27	
direct	-9670 Aug 30 j 13:57	11° <u>᠘</u> 36'38					
evening set	-9670 Nov 27 j 17:31	14° <u>᠘</u> 32'25		conjunction	-9663 Jan 06 j 23:36	9° <u>᠓</u> .13'02	-0°36'37
				minimum elong	-9663 Jan 06 j 23:36	9° <u>᠓</u> .13'02	0°36'55
conjunction	-9670 Dec 13 j 23:07	15° <u>᠘</u> 26'53	-0°11'35	max. Earth dist.	-9663 Jan 07 j 11:28	9° <u>᠓</u> .14'43	20.99251 AU

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Attention, astronomical year style is used: The year -9663 in astronomical counting style is the year 9664 BCE in historical counting style.

morning rise	-9663 Jan 23 j 14:54	10° \mathbb{M} 09'08	retrograde	-9657 May 23 j 21:12	7° \mathbb{X} 48'47	
retrograde	-9663 Apr 28 j 05:19	13° \mathbb{M} 16'18	opposition	-9657 Aug 07 j 14:47	5° \mathbb{X} 48'10	-1°03'11
opposition	-9663 Jul 14 j 01:37	11° \mathbb{M} 16'27 -0°42'37	min. Earth dist.	-9657 Aug 07 j 19:40	5° \mathbb{X} 47'39	18.61949 AU
min. Earth dist.	-9663 Jul 13 j 16:37	11° \mathbb{M} 17'23 18.97079 AU	direct	-9657 Oct 21 j 06:28	3° \mathbb{X} 48'32	
direct	-9663 Sep 26 j 14:40	9° \mathbb{M} 19'08	evening set	-9656 Jan 20 j 22:55	6° \mathbb{X} 53'56	
evening set	-9663 Dec 25 j 21:25	12° \mathbb{M} 18'39				
conjunction	-9662 Jan 11 j 10:10	13° \mathbb{M} 14'28 -0°40'20	conjunction	-9656 Feb 06 j 16:15	7° \mathbb{X} 51'21	-0°58'08
minimum elong	-9662 Jan 11 j 10:10	13° \mathbb{M} 14'28 0°40'41	minimum elong	-9656 Feb 06 j 16:14	7° \mathbb{X} 51'21	0°58'39
max. Earth dist.	-9662 Jan 11 j 20:04	13° \mathbb{M} 15'52 20.94770 AU	max. Earth dist.	-9656 Feb 06 j 09:33	7° \mathbb{X} 50'23	20.58458 AU
morning rise	-9662 Jan 28 j 02:05	14° \mathbb{M} 10'46	morning rise	-9656 Feb 23 j 11:11	8° \mathbb{X} 49'02	
retrograde	-9662 Feb 12 j 09:56	15° \mathbb{M}	retrograde	-9656 May 27 j 10:35	11° \mathbb{X} 59'12	
retrograde	-9662 May 02 j 15:58	17° \mathbb{M} 18'18	opposition	-9656 Aug 10 j 22:28	9° \mathbb{X} 58'24	-1°05'38
opposition	-9662 Jul 18 j 06:49	15° \mathbb{M} 18'23 -0°46'39	min. Earth dist.	-9656 Aug 11 j 04:28	9° \mathbb{X} 57'46	18.54933 AU
min. Earth dist.	-9662 Jul 17 j 23:09	15° \mathbb{M} 19'11 18.92348 AU	direct	-9656 Oct 24 j 16:40	7° \mathbb{X} 58'18	
direct	-9662 Jul 25 j 17:29	15° \mathbb{R} \mathbb{M}	evening set	-9655 Jan 24 j 14:05	11° \mathbb{X} 04'54	
evening set	-9662 Sep 30 j 20:29	13° \mathbb{M} 20'48	conjunction	-9655 Feb 10 j 07:57	12° \mathbb{X} 02'36	-1°00'11
	-9662 Dec 04 j 04:25	15° \mathbb{M}	minimum elong	-9655 Feb 10 j 07:57	12° \mathbb{X} 02'36	1°00'42
	-9662 Dec 30 j 07:48	16° \mathbb{M} 21'09	max. Earth dist.	-9655 Feb 09 j 22:36	12° \mathbb{X} 01'15	20.51349 AU
conjunction	-9661 Jan 15 j 21:16	17° \mathbb{M} 17'13 -0°43'53	morning rise	-9655 Feb 27 j 03:08	13° \mathbb{X} 00'33	
minimum elong	-9661 Jan 15 j 21:16	17° \mathbb{M} 17'13 0°44'16	retrograde	-9655 May 31 j 21:57	16° \mathbb{X} 11'14	
max. Earth dist.	-9661 Jan 16 j 03:46	17° \mathbb{M} 18'08 20.89782 AU	opposition	-9655 Aug 15 j 06:47	14° \mathbb{X} 10'18	-1°07'45
morning rise	-9661 Feb 01 j 13:53	18° \mathbb{M} 13'44	min. Earth dist.	-9655 Aug 15 j 15:47	14° \mathbb{X} 09'21	18.47764 AU
retrograde	-9661 May 07 j 01:27	21° \mathbb{M} 21'39	direct	-9655 Oct 29 j 00:47	12° \mathbb{X} 09'44	
opposition	-9661 Jul 22 j 12:30	19° \mathbb{M} 21'39 -0°50'28	evening set	-9654 Jan 29 j 06:07	15° \mathbb{X} 17'36	
min. Earth dist.	-9661 Jul 22 j 08:11	19° \mathbb{M} 22'06 18.87118 AU	conjunction	-9654 Feb 15 j 00:32	16° \mathbb{X} 15'36	-1°01'55
direct	-9661 Oct 05 j 01:29	17° \mathbb{M} 23'44	minimum elong	-9654 Feb 15 j 00:32	16° \mathbb{X} 15'36	1°02'27
evening set	-9660 Jan 03 j 18:47	20° \mathbb{M} 24'59	max. Earth dist.	-9654 Feb 14 j 12:50	16° \mathbb{X} 13'54	20.44130 AU
conjunction	-9660 Jan 20 j 09:14	21° \mathbb{M} 21'18 -0°47'13	morning rise	-9654 Mar 03 j 19:55	17° \mathbb{X} 13'48	
minimum elong	-9660 Jan 20 j 09:14	21° \mathbb{M} 21'18 0°47'37	retrograde	-9654 Jun 05 j 12:49	20° \mathbb{X} 25'04	
max. Earth dist.	-9660 Jan 20 j 13:28	21° \mathbb{M} 21'54 20.84317 AU	opposition	-9654 Aug 19 j 15:44	18° \mathbb{X} 23'59	-1°09'31
morning rise	-9660 Feb 06 j 02:23	22° \mathbb{M} 18'02	min. Earth dist.	-9654 Aug 20 j 01:45	18° \mathbb{X} 22'56	18.40507 AU
retrograde	-9660 May 10 j 12:36	25° \mathbb{M} 26'22	direct	-9654 Nov 02 j 12:34	16° \mathbb{X} 23'00	
opposition	-9660 Jul 25 j 18:23	23° \mathbb{M} 26'15 -0°54'03	evening set	-9653 Feb 02 j 22:58	19° \mathbb{X} 32'10	
min. Earth dist.	-9660 Jul 25 j 15:27	23° \mathbb{M} 26'33 18.81412 AU	conjunction	-9653 Feb 19 j 17:47	20° \mathbb{X} 30'29	-1°03'19
direct	-9660 Oct 08 j 08:29	21° \mathbb{M} 27'56	minimum elong	-9653 Feb 19 j 17:47	20° \mathbb{X} 30'29	1°03'52
evening set	-9659 Jan 07 j 06:41	24° \mathbb{M} 30'09	max. Earth dist.	-9653 Feb 19 j 03:50	20° \mathbb{X} 28'27	20.36830 AU
conjunction	-9659 Jan 23 j 21:52	25° \mathbb{M} 26'43 -0°50'20	morning rise	-9653 Mar 08 j 13:11	21° \mathbb{X} 28'56	
minimum elong	-9659 Jan 23 j 21:51	25° \mathbb{M} 26'43 0°50'47	retrograde	-9653 Jun 10 j 01:29	24° \mathbb{X} 40'49	
max. Earth dist.	-9659 Jan 23 j 22:42	25° \mathbb{M} 26'50 20.78382 AU	opposition	-9653 Aug 24 j 01:33	22° \mathbb{X} 39'39	-1°10'56
morning rise	-9659 Feb 09 j 15:37	26° \mathbb{M} 23'42	min. Earth dist.	-9653 Aug 24 j 14:17	22° \mathbb{X} 38'17	18.33195 AU
retrograde	-9659 May 14 j 22:42	29° \mathbb{M} 32'26	direct	-9653 Nov 06 j 22:06	20° \mathbb{X} 38'14	
opposition	-9659 Jul 30 j 00:51	27° \mathbb{M} 32'10 -0°57'23	evening set	-9652 Feb 07 j 16:49	23° \mathbb{X} 48'47	
min. Earth dist.	-9659 Jul 30 j 01:17	27° \mathbb{M} 32'07 18.75266 AU	conjunction	-9652 Feb 24 j 12:00	24° \mathbb{X} 47'24	-1°04'24
direct	-9659 Oct 12 j 14:42	25° \mathbb{M} 33'27	minimum elong	-9652 Feb 24 j 12:00	24° \mathbb{X} 47'24	1°04'58
evening set	-9658 Jan 11 j 19:21	28° \mathbb{M} 36'39	max. Earth dist.	-9652 Feb 23 j 19:36	24° \mathbb{X} 45'00	20.29515 AU
conjunction	-9658 Jan 28 j 11:22	29° \mathbb{M} 33'30 -0°53'12	morning rise	-9652 Mar 12 j 07:31	25° \mathbb{X} 46'06	
minimum elong	-9658 Jan 28 j 11:21	29° \mathbb{M} 33'30 0°53'40	retrograde	-9652 Jun 13 j 17:53	28° \mathbb{X} 58'37	
max. Earth dist.	-9658 Jan 28 j 09:52	29° \mathbb{M} 33'17 20.72048 AU	opposition	-9652 Aug 27 j 11:52	26° \mathbb{X} 57'23	-1°11'57
morning rise	-9658 Feb 05 j 04:19	0° \mathbb{X}	min. Earth dist.	-9652 Aug 28 j 01:42	26° \mathbb{X} 55'54	18.25875 AU
retrograde	-9658 Feb 14 j 05:33	0° \mathbb{X} 30'42	direct	-9652 Nov 10 j 11:24	24° \mathbb{X} 55'34	
opposition	-9658 May 19 j 10:47	3° \mathbb{X} 39'53	evening set	-9651 Feb 11 j 11:43	28° \mathbb{X} 07'33	
min. Earth dist.	-9658 Aug 03 j 07:27	1° \mathbb{X} 39'27 -1°00'26	conjunction	-9651 Feb 28 j 07:15	29° \mathbb{X} 06'29	-1°05'07
direct	-9658 Aug 03 j 09:13	1° \mathbb{X} 39'16 18.68752 AU	minimum elong	-9651 Feb 28 j 07:15	29° \mathbb{X} 06'29	1°05'42
evening set	-9658 Sep 19 j 03:53	30° \mathbb{R} \mathbb{M}	max. Earth dist.	-9651 Feb 27 j 12:51	29° \mathbb{X} 03'46	20.22178 AU
conjunction	-9658 Oct 16 j 23:23	29° \mathbb{M} 40'16	morning rise	-9651 Mar 15 j 12:53	0° \mathbb{X}	
minimum elong	-9658 Nov 13 j 13:56	0° \mathbb{X}	retrograde	-9651 Mar 17 j 02:39	0° \mathbb{X} 05'26	
max. Earth dist.	-9657 Jan 16 j 08:52	2° \mathbb{X} 44'33	opposition	-9651 Jun 18 j 08:12	3° \mathbb{X} 18'38	
conjunction	-9657 Feb 02 j 01:30	3° \mathbb{X} 41'41 -0°55'49	min. Earth dist.	-9651 Aug 31 j 23:16	1° \mathbb{X} 17'21	-1°12'35
minimum elong	-9657 Feb 02 j 01:29	3° \mathbb{X} 41'41 0°56'18	direct	-9651 Sep 01 j 15:52	1° \mathbb{X} 15'34	18.18535 AU
max. Earth dist.	-9657 Feb 01 j 20:58	3° \mathbb{X} 41'02 20.65373 AU	evening set	-9651 Oct 03 j 13:44	30° \mathbb{R} \mathbb{X}	
morning rise	-9657 Feb 18 j 20:05	4° \mathbb{X} 39'08	conjunction	-9651 Nov 14 j 23:01	29° \mathbb{X} 15'09	
			minimum elong	-9651 Dec 26 j 21:47	0° \mathbb{X}	

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Attention, astronomical year style is used: The year -9650 in astronomical counting style is the year 9651 BCE in historical counting style.

evening set	-9650 Feb 16 j 07:42	2° $\overline{3}$ 28'37		minimum elong	-9644 Apr 01 j 21:49	0° \approx 22'26	0°59'53
max. Earth dist.	-9650 Mar 04 j 06:11	3° $\overline{3}$ 24'42	20.14835 AU	morning rise	-9644 Apr 18 j 14:35	1° \approx 22'59	
				retrograde	-9644 Jul 19 j 19:10	4° \approx 40'48	
conjunction	-9650 Mar 05 j 03:22	3° $\overline{3}$ 27'50	-1°05'28	opposition	-9644 Oct 01 j 07:50	2° \approx 38'56	-1°04'51
minimum elong	-9650 Mar 05 j 03:22	3° $\overline{3}$ 27'50	1°06'03	min. Earth dist.	-9644 Oct 02 j 12:06	2° \approx 35'52	17.67475 AU
morning rise	-9650 Mar 21 j 22:42	4° $\overline{3}$ 27'03		direct	-9644 Dec 16 j 00:31	0° \approx 33'50	
retrograde	-9650 Jun 23 j 01:51	7° $\overline{3}$ 40'56		evening set	-9643 Mar 21 j 04:33	3° \approx 57'21	
opposition	-9650 Sep 05 j 11:21	5° $\overline{3}$ 39'36	-1°12'47				
min. Earth dist.	-9650 Sep 06 j 05:12	5° $\overline{3}$ 37'41	18.11187 AU	conjunction	-9643 Apr 06 j 23:25	4° \approx 58'27	-0°56'57
direct	-9650 Nov 19 j 14:04	3° $\overline{3}$ 37'02		minimum elong	-9643 Apr 06 j 23:25	4° \approx 58'27	0°57'27
evening set	-9649 Feb 21 j 04:37	6° $\overline{3}$ 51'59		max. Earth dist.	-9643 Apr 05 j 13:28	4° \approx 53'15	19.64019 AU
max. Earth dist.	-9649 Mar 09 j 01:35	7° $\overline{3}$ 48'06	20.07464 AU	morning rise	-9643 Apr 23 j 15:20	5° \approx 59'11	
				retrograde	-9643 Jul 24 j 16:18	9° \approx 17'34	
conjunction	-9649 Mar 10 j 00:30	7° $\overline{3}$ 51'30	-1°05'26	opposition	-9643 Oct 06 j 02:29	7° \approx 15'36	-1°02'00
minimum elong	-9649 Mar 10 j 00:30	7° $\overline{3}$ 51'30	1°06'02	min. Earth dist.	-9643 Oct 07 j 07:44	7° \approx 12'24	17.60761 AU
morning rise	-9649 Mar 26 j 19:27	8° $\overline{3}$ 50'57		direct	-9643 Dec 20 j 20:56	5° \approx 10'06	
retrograde	-9649 Jun 27 j 18:02	12° $\overline{3}$ 05'32		evening set	-9642 Mar 26 j 07:05	8° \approx 34'53	
opposition	-9649 Sep 10 j 00:33	10° $\overline{3}$ 04'10	-1°12'34	max. Earth dist.	-9642 Apr 10 j 13:16	9° \approx 30'40	19.57484 AU
min. Earth dist.	-9649 Sep 10 j 21:01	10° $\overline{3}$ 01'58	18.03813 AU				
direct	-9649 Nov 24 j 04:22	8° $\overline{3}$ 01'13		conjunction	-9642 Apr 12 j 01:15	9° \approx 36'12	-0°54'10
evening set	-9648 Feb 26 j 02:28	11° $\overline{3}$ 17'39		minimum elong	-9642 Apr 12 j 01:15	9° \approx 36'12	0°54'40
				morning rise	-9642 Apr 28 j 16:29	10° \approx 37'06	
conjunction	-9648 Mar 13 j 22:17	12° $\overline{3}$ 17'28	-1°05'01	retrograde	-9642 Jul 29 j 14:32	13° \approx 56'03	
minimum elong	-9648 Mar 13 j 22:17	12° $\overline{3}$ 17'28	1°05'35	opposition	-9642 Oct 10 j 22:00	11° \approx 53'57	-0°58'43
max. Earth dist.	-9648 Mar 12 j 20:20	12° $\overline{3}$ 13'35	20.00082 AU	min. Earth dist.	-9642 Oct 12 j 04:08	11° \approx 50'40	17.54436 AU
morning rise	-9648 Mar 30 j 17:07	13° $\overline{3}$ 17'09		direct	-9642 Dec 25 j 18:58	9° \approx 48'05	
retrograde	-9648 Jul 01 j 12:38	16° $\overline{3}$ 32'26		evening set	-9641 Mar 31 j 10:00	13° \approx 14'07	
opposition	-9648 Sep 13 j 14:34	14° $\overline{3}$ 31'00	-1°11'55	max. Earth dist.	-9641 Apr 15 j 16:18	14° \approx 10'08	19.51372 AU
min. Earth dist.	-9648 Sep 14 j 12:23	14° $\overline{3}$ 28'38	17.96425 AU				
direct	-9648 Nov 27 j 21:21	12° $\overline{3}$ 27'38		conjunction	-9641 Apr 17 j 03:43	14° \approx 15'37	-0°51'02
evening set	-9647 Mar 02 j 01:20	15° $\overline{3}$ 45'32		minimum elong	-9641 Apr 17 j 03:43	14° \approx 15'37	0°51'29
					-9641 Apr 29 j 04:12	15° \approx	
conjunction	-9647 Mar 18 j 21:15	16° $\overline{3}$ 45'38	-1°04'12	morning rise	-9641 May 03 j 17:58	15° \approx 16'39	
minimum elong	-9647 Mar 18 j 21:15	16° $\overline{3}$ 45'38	1°04'46	retrograde	-9641 Aug 03 j 12:42	18° \approx 36'09	
max. Earth dist.	-9647 Mar 17 j 17:50	16° $\overline{3}$ 41'32	19.92674 AU	opposition	-9641 Oct 15 j 18:23	16° \approx 33'59	-0°55'02
morning rise	-9647 Apr 04 j 15:31	17° $\overline{3}$ 45'34		min. Earth dist.	-9641 Oct 17 j 00:38	16° \approx 30'40	17.48558 AU
retrograde	-9647 Jul 06 j 06:36	21° $\overline{3}$ 01'29			-9641 Nov 25 j 05:49	15° \approx	
opposition	-9647 Sep 18 j 05:34	18° $\overline{3}$ 59'59	-1°10'49	direct	-9641 Dec 30 j 17:27	14° \approx 27'48	
min. Earth dist.	-9647 Sep 19 j 05:42	18° $\overline{3}$ 57'22	17.89024 AU		-9640 Feb 03 j 20:58	15° \approx	
direct	-9647 Dec 02 j 14:20	16° $\overline{3}$ 56'12		evening set	-9640 Apr 04 j 13:33	17° \approx 54'59	
evening set	-9646 Mar 07 j 01:10	20° $\overline{3}$ 15'34		max. Earth dist.	-9640 Apr 19 j 17:42	18° \approx 50'57	19.45747 AU
conjunction	-9646 Mar 23 j 20:47	21° $\overline{3}$ 15'56	-1°02'59	conjunction	-9640 Apr 21 j 06:28	18° \approx 56'39	-0°47'32
minimum elong	-9646 Mar 23 j 20:48	21° $\overline{3}$ 15'56	1°03'32	minimum elong	-9640 Apr 21 j 06:28	18° \approx 56'39	0°47'57
max. Earth dist.	-9646 Mar 22 j 14:17	21° $\overline{3}$ 11'20	19.85298 AU	morning rise	-9640 May 07 j 19:54	19° \approx 57'49	
morning rise	-9646 Apr 09 j 14:45	22° $\overline{3}$ 16'05		retrograde	-9640 Aug 07 j 11:21	23° \approx 17'51	
retrograde	-9646 Jul 11 j 02:26	25° $\overline{3}$ 32'40		opposition	-9640 Oct 19 j 15:45	21° \approx 15'37	-0°50'58
opposition	-9646 Sep 22 j 21:28	23° $\overline{3}$ 31'03	-1°09'16	min. Earth dist.	-9640 Oct 20 j 22:44	21° \approx 12'13	17.43203 AU
min. Earth dist.	-9646 Sep 23 j 22:51	23° $\overline{3}$ 28'18	17.81689 AU	direct	-9639 Jan 03 j 16:51	19° \approx 09'10	
direct	-9646 Dec 07 j 09:17	21° $\overline{3}$ 26'49		evening set	-9639 Apr 09 j 17:32	22° \approx 37'29	
evening set	-9645 Mar 12 j 01:25	24° $\overline{3}$ 47'36		max. Earth dist.	-9639 Apr 24 j 21:49	23° \approx 33'40	19.40663 AU
conjunction	-9645 Mar 28 j 21:00	25° $\overline{3}$ 48'14	-1°01'22	conjunction	-9639 Apr 26 j 09:46	23° \approx 39'16	-0°43'42
minimum elong	-9645 Mar 28 j 21:00	25° $\overline{3}$ 48'14	1°01'55	minimum elong	-9639 Apr 26 j 09:46	23° \approx 39'16	0°44'06
max. Earth dist.	-9645 Mar 27 j 13:48	25° $\overline{3}$ 43'30	19.78005 AU	morning rise	-9639 May 12 j 22:07	24° \approx 40'32	
morning rise	-9645 Apr 14 j 14:13	26° $\overline{3}$ 48'35		retrograde	-9639 Aug 12 j 10:51	28° \approx 01'05	
	-9645 Jul 01 j 10:29	0° \approx		opposition	-9639 Oct 24 j 13:57	25° \approx 58'50	-0°46'32
retrograde	-9645 Jul 15 j 22:01	0° \approx 05'47		min. Earth dist.	-9639 Oct 25 j 20:25	25° \approx 55'30	17.38390 AU
	-9645 Jul 30 j 12:33	30° \overline{R} $\overline{3}$		direct	-9638 Jan 08 j 18:07	23° \approx 52'12	
opposition	-9645 Sep 27 j 14:19	28° $\overline{3}$ 04'04	-1°07'17	evening set	-9638 Apr 14 j 22:03	27° \approx 21'33	
min. Earth dist.	-9645 Sep 28 j 17:25	28° $\overline{3}$ 01'07	17.74470 AU	max. Earth dist.	-9638 Apr 30 j 00:53	28° \approx 17'45	19.36141 AU
direct	-9645 Dec 12 j 04:03	25° $\overline{3}$ 59'24					
evening set	-9644 Mar 16 j 02:43	29° $\overline{3}$ 21'34		conjunction	-9638 May 01 j 13:20	28° \approx 23'27	-0°39'33
	-9644 Mar 26 j 18:23	0° \approx		minimum elong	-9638 May 01 j 13:21	28° \approx 23'27	0°39'54
max. Earth dist.	-9644 Mar 31 j 11:56	0° \approx 17'16	19.70887 AU	morning rise	-9638 May 18 j 00:39	29° \approx 24'47	
					-9638 May 27 j 19:50	0° \approx	
conjunction	-9644 Apr 01 j 21:48	0° \approx 22'26	-0°59'21	retrograde	-9638 Aug 17 j 09:59	2° \approx 45'51	

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Attention, astronomical year style is used: The year -9638 in astronomical counting style is the year 9639 BCE in historical counting style.

opposition	-9638 Oct 29 j 13:13	0° \mathbf{K} 43'36	-0°41'44				-9632 Nov 17 j 19:26	30° \mathbf{R} \mathbf{K}	
min. Earth dist.	-9638 Oct 30 j 20:20	0° \mathbf{K} 40'12	17.34164 AU	opposition	-9632 Nov 27 j 00:51	29° \mathbf{K} 36'07	-0°07'40		
	-9638 Nov 15 j 11:56	30° \mathbf{K} \approx		min. Earth dist.	-9632 Nov 28 j 04:56	29° \mathbf{K} 33'04	17.20088 AU		
direct	-9637 Jan 13 j 18:58	28° \mathbf{K} \approx 36'51		direct	-9631 Feb 11 j 20:09	27° \mathbf{K} 29'11			
	-9637 Mar 12 j 06:40	0° \mathbf{K}			-9631 May 01 j 23:53	0° \mathbf{Y}			
evening set	-9637 Apr 20 j 02:40	2° \mathbf{K} 07'07		evening set	-9631 May 19 j 10:10	1° \mathbf{Y} 02'30			
max. Earth dist.	-9637 May 05 j 05:30	3° \mathbf{K} 03'32	19.32205 AU	max. Earth dist.	-9631 Jun 03 j 10:31	1° \mathbf{Y} 59'26	19.19738 AU		
conjunction	-9637 May 06 j 17:04	3° \mathbf{K} 09'06	-0°35'06	conjunction	-9631 Jun 04 j 17:19	2° \mathbf{Y} 04'20	-0°04'07		
minimum elong	-9637 May 06 j 17:04	3° \mathbf{K} 09'07	0°35'25	minimum elong	-9631 Jun 04 j 17:20	2° \mathbf{Y} 04'20	0°04'10		
morning rise	-9637 May 23 j 03:18	4° \mathbf{K} 10'30		behind sun begin	-9631 Jun 04 j 10:45	2° \mathbf{Y} 03'19			
retrograde	-9637 Aug 22 j 10:59	7° \mathbf{K} 32'02		behind sun end	-9631 Jun 04 j 23:54	2° \mathbf{Y} 05'22			
opposition	-9637 Nov 03 j 13:12	5° \mathbf{K} 29'50	-0°36'38	morning rise	-9631 Jun 20 j 20:10	3° \mathbf{Y} 05'33			
min. Earth dist.	-9637 Nov 04 j 19:21	5° \mathbf{K} 26'32	17.30497 AU	retrograde	-9631 Sep 19 j 19:43	6° \mathbf{Y} 28'41			
direct	-9636 Jan 18 j 22:25	3° \mathbf{K} 22'59		opposition	-9631 Dec 02 j 04:45	4° \mathbf{Y} 26'39	-0°01'32		
evening set	-9636 Apr 24 j 07:50	6° \mathbf{K} 54'06		min. Earth dist.	-9631 Dec 03 j 06:43	4° \mathbf{Y} 23'50	17.19614 AU		
max. Earth dist.	-9636 May 09 j 09:51	7° \mathbf{K} 50'35	19.28811 AU	direct	-9630 Feb 17 j 02:14	2° \mathbf{Y} 19'46			
				asc. node	-9630 Mar 01 j 21:52	2° \mathbf{Y} 24'08			
conjunction	-9636 May 10 j 21:12	7° \mathbf{K} 56'09	-0°30'23	evening set	-9630 May 24 j 14:35	5° \mathbf{Y} 53'04			
minimum elong	-9636 May 10 j 21:12	7° \mathbf{K} 56'09	0°30'39						
morning rise	-9636 May 27 j 06:12	8° \mathbf{K} 57'35		conjunction	-9630 Jun 09 j 20:35	6° \mathbf{Y} 54'48	0°01'30		
retrograde	-9636 Aug 26 j 10:48	12° \mathbf{K} 19'30		minimum elong	-9630 Jun 09 j 20:36	6° \mathbf{Y} 54'48	0°01'31		
opposition	-9636 Nov 07 j 14:04	10° \mathbf{K} 17'22	-0°31'14	behind sun begin	-9630 Jun 09 j 13:56	6° \mathbf{Y} 53'45			
min. Earth dist.	-9636 Nov 08 j 20:58	10° \mathbf{K} 14'00	17.27377 AU	behind sun end	-9630 Jun 10 j 03:16	6° \mathbf{Y} 55'50			
direct	-9635 Jan 23 j 00:39	8° \mathbf{K} 10'28		max. Earth dist.	-9630 Jun 08 j 16:39	6° \mathbf{Y} 50'20	19.19562 AU		
evening set	-9635 Apr 29 j 13:15	11° \mathbf{K} 42'19		morning rise	-9630 Jun 25 j 22:01	7° \mathbf{Y} 55'52			
max. Earth dist.	-9635 May 14 j 14:38	12° \mathbf{K} 38'53	19.25961 AU	retrograde	-9630 Sep 24 j 21:09	11° \mathbf{Y} 19'04			
				opposition	-9630 Dec 07 j 09:07	9° \mathbf{Y} 17'01	0°04'38		
conjunction	-9635 May 16 j 01:27	12° \mathbf{K} 44'22	-0°25'26	min. Earth dist.	-9630 Dec 08 j 10:14	9° \mathbf{Y} 14'18	17.19738 AU		
minimum elong	-9635 May 16 j 01:27	12° \mathbf{K} 44'22	0°25'39	direct	-9629 Feb 22 j 07:27	7° \mathbf{Y} 10'12			
morning rise	-9635 Jun 01 j 09:19	13° \mathbf{K} 45'49		evening set	-9629 May 29 j 18:31	10° \mathbf{Y} 43'21			
retrograde	-9635 Aug 31 j 13:02	17° \mathbf{K} 08'07							
opposition	-9635 Nov 12 j 15:47	15° \mathbf{K} 06'01	-0°25'36	conjunction	-9629 Jun 14 j 23:02	11° \mathbf{Y} 44'54	0°07'00		
min. Earth dist.	-9635 Nov 13 j 21:17	15° \mathbf{K} 02'48	17.24778 AU	minimum elong	-9629 Jun 14 j 23:02	11° \mathbf{Y} 44'54	0°07'03		
direct	-9634 Jan 28 j 06:03	12° \mathbf{K} 59'05		behind sun begin	-9629 Jun 14 j 16:53	11° \mathbf{Y} 43'57			
evening set	-9634 May 04 j 18:35	16° \mathbf{K} 31'30		behind sun end	-9629 Jun 15 j 05:12	11° \mathbf{Y} 45'52			
max. Earth dist.	-9634 May 19 j 19:58	17° \mathbf{K} 28'14	19.23615 AU	max. Earth dist.	-9629 Jun 13 j 20:03	11° \mathbf{Y} 40'36	19.20007 AU		
				morning rise	-9629 Jun 30 j 23:24	12° \mathbf{Y} 45'51			
conjunction	-9634 May 21 j 05:40	17° \mathbf{K} 33'34	-0°20'17	retrograde	-9629 Sep 29 j 22:51	16° \mathbf{Y} 09'02			
minimum elong	-9634 May 21 j 05:40	17° \mathbf{K} 33'34	0°20'29	opposition	-9629 Dec 12 j 13:31	14° \mathbf{Y} 06'58	0°10'44		
morning rise	-9634 Jun 06 j 12:09	18° \mathbf{K} 34'59		min. Earth dist.	-9629 Dec 13 j 12:16	14° \mathbf{Y} 04'30	17.20501 AU		
retrograde	-9634 Sep 05 j 13:25	21° \mathbf{K} 57'36		direct	-9628 Feb 27 j 13:16	12° \mathbf{Y} 00'15			
opposition	-9634 Nov 17 j 18:22	19° \mathbf{K} 55'32	-0°19'46	evening set	-9628 Jun 02 j 21:49	15° \mathbf{Y} 33'07			
min. Earth dist.	-9634 Nov 19 j 00:15	19° \mathbf{K} 52'17	17.22693 AU	max. Earth dist.	-9628 Jun 18 j 01:34	16° \mathbf{Y} 30'44	19.21095 AU		
direct	-9633 Feb 02 j 09:32	17° \mathbf{K} 48'35							
evening set	-9633 May 10 j 00:00	21° \mathbf{K} 21'27		conjunction	-9628 Jun 19 j 01:08	16° \mathbf{Y} 34'30	0°12'25		
max. Earth dist.	-9633 May 25 j 00:28	22° \mathbf{K} 18'11	19.21795 AU	minimum elong	-9628 Jun 19 j 01:08	16° \mathbf{Y} 34'30	0°12'31		
				behind sun begin	-9628 Jun 18 j 20:49	16° \mathbf{Y} 33'49			
conjunction	-9633 May 26 j 09:46	22° \mathbf{K} 23'28	-0°14'59	behind sun end	-9628 Jun 19 j 05:27	16° \mathbf{Y} 35'10			
minimum elong	-9633 May 26 j 09:46	22° \mathbf{K} 23'28	0°15'07	morning rise	-9628 Jul 05 j 00:05	17° \mathbf{Y} 35'15			
behind sun begin	-9633 May 26 j 07:32	22° \mathbf{K} 23'07		retrograde	-9628 Oct 03 j 23:56	20° \mathbf{Y} 58'22			
behind sun end	-9633 May 26 j 12:00	22° \mathbf{K} 23'49		opposition	-9628 Dec 16 j 18:10	18° \mathbf{Y} 56'19	0°16'45		
morning rise	-9633 Jun 11 j 15:09	23° \mathbf{K} 24'50		min. Earth dist.	-9628 Dec 17 j 15:11	18° \mathbf{Y} 54'03	17.21914 AU		
retrograde	-9633 Sep 10 j 16:07	26° \mathbf{K} 47'41		direct	-9627 Mar 03 j 19:57	16° \mathbf{Y} 49'46			
opposition	-9633 Nov 22 j 21:13	24° \mathbf{K} 45'39	-0°13'46	evening set	-9627 Jun 08 j 00:41	20° \mathbf{Y} 22'12			
min. Earth dist.	-9633 Nov 24 j 01:21	24° \mathbf{K} 42'35	17.21127 AU	max. Earth dist.	-9627 Jun 23 j 04:23	21° \mathbf{Y} 19'51	19.22860 AU		
direct	-9632 Feb 07 j 15:41	22° \mathbf{K} 38'42							
evening set	-9632 May 14 j 05:11	26° \mathbf{K} 11'52		conjunction	-9627 Jun 24 j 02:29	21° \mathbf{Y} 23'22	0°17'44		
max. Earth dist.	-9632 May 29 j 06:28	27° \mathbf{K} 08'50	19.20491 AU	minimum elong	-9627 Jun 24 j 02:28	21° \mathbf{Y} 23'22	0°17'52		
				morning rise	-9627 Jul 10 j 00:21	22° \mathbf{Y} 23'57			
conjunction	-9632 May 30 j 13:50	27° \mathbf{K} 13'49	-0°09'35	retrograde	-9627 Oct 09 j 00:08	25° \mathbf{Y} 46'58			
minimum elong	-9632 May 30 j 13:50	27° \mathbf{K} 13'49	0°09'41	opposition	-9627 Dec 21 j 22:56	23° \mathbf{Y} 44'55	0°22'38		
behind sun begin	-9632 May 30 j 08:20	27° \mathbf{K} 12'58		min. Earth dist.	-9627 Dec 22 j 17:27	23° \mathbf{Y} 42'56	17.24030 AU		
behind sun end	-9632 May 30 j 19:20	27° \mathbf{K} 14'40		direct	-9626 Mar 09 j 01:45	21° \mathbf{Y} 38'35			
morning rise	-9632 Jun 15 j 17:48	28° \mathbf{K} 15'07		evening set	-9626 Jun 13 j 02:33	25° \mathbf{Y} 10'29			
	-9632 Jul 16 j 08:11	0° \mathbf{Y}		max. Earth dist.	-9626 Jun 28 j 08:47	26° \mathbf{Y} 08'29	19.25323 AU		
retrograde	-9632 Sep 14 j 17:10	1° \mathbf{Y} 38'08							

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Attention, astronomical year style is used: The year -9626 in astronomical counting style is the year 9627 BCE in historical counting style.

conjunction	-9626 Jun 29 j 03:09	26° Υ 11'25	0°22'55	retrograde	-9620 Nov 10 j 22:14	28° δ 56'39	
minimum elong	-9626 Jun 29 j 03:09	26° Υ 11'25	0°23'06	opposition	-9619 Jan 25 j 04:12	26° δ 55'25	0°56'52
morning rise	-9626 Jul 14 j 23:45	27° Υ 11'47		min. Earth dist.	-9619 Jan 25 j 04:34	26° δ 55'23	17.55258 AU
	-9626 Sep 08 j 19:23	0° δ		direct	-9619 Apr 12 j 08:20	24° δ 51'41	
retrograde	-9626 Oct 14 j 00:54	0° δ 34'39		evening set	-9619 Jul 15 j 19:15	28° δ 17'00	
	-9626 Nov 19 j 08:05	30° κ Υ					
opposition	-9626 Dec 27 j 03:42	28° Υ 32'40	0°28'20	conjunction	-9619 Jul 31 j 11:44	29° δ 15'54	0°52'39
min. Earth dist.	-9626 Dec 27 j 19:39	28° Υ 30'58	17.26822 AU	minimum elong	-9619 Jul 31 j 11:44	29° δ 15'54	0°53'06
direct	-9625 Mar 14 j 08:40	26° Υ 26'38		max. Earth dist.	-9619 Jul 31 j 12:03	29° δ 15'57	19.58245 AU
evening set	-9625 Jun 18 j 03:59	29° Υ 57'53			-9619 Aug 12 j 04:28	0° Π	
	-9625 Jun 18 j 17:37	0° δ		morning rise	-9619 Aug 16 j 02:04	0° Π 14'30	
max. Earth dist.	-9625 Jul 03 j 10:43	0° δ 55'56	19.28457 AU	retrograde	-9619 Nov 15 j 19:11	3° Π 34'59	
				opposition	-9618 Jan 30 j 07:05	1° Π 33'51	1°00'22
conjunction	-9625 Jul 04 j 03:11	0° δ 58'33	0°27'56	min. Earth dist.	-9618 Jan 30 j 05:59	1° Π 33'57	17.61322 AU
minimum elong	-9625 Jul 04 j 03:10	0° δ 58'33	0°28'10		-9618 Mar 13 j 20:06	30° κ δ	
morning rise	-9625 Jul 19 j 22:46	1° δ 58'42		direct	-9618 Apr 17 j 09:47	29° δ 30'30	
retrograde	-9625 Oct 19 j 00:09	5° δ 21'22			-9618 May 21 j 02:47	0° Π	
opposition	-9624 Jan 01 j 08:12	3° δ 19'29	0°33'50	evening set	-9618 Jul 20 j 14:35	2° Π 54'31	
min. Earth dist.	-9624 Jan 01 j 21:57	3° δ 18'02	17.30285 AU				
direct	-9624 Mar 18 j 13:16	1° δ 13'46		conjunction	-9618 Aug 05 j 06:10	3° Π 53'06	0°55'37
evening set	-9624 Jun 22 j 04:34	4° δ 44'17		minimum elong	-9618 Aug 05 j 06:10	3° Π 53'06	0°56'07
				max. Earth dist.	-9618 Aug 05 j 08:30	3° Π 53'28	19.64435 AU
conjunction	-9624 Jul 08 j 02:35	5° δ 44'42	0°32'45	morning rise	-9618 Aug 20 j 20:03	4° Π 51'25	
minimum elong	-9624 Jul 08 j 02:35	5° δ 44'42	0°33'01	retrograde	-9618 Nov 20 j 17:26	8° Π 11'22	
max. Earth dist.	-9624 Jul 07 j 13:34	5° δ 42'38	19.32235 AU	opposition	-9617 Feb 04 j 09:04	6° Π 10'17	1°03'26
morning rise	-9624 Jul 23 j 21:04	6° δ 44'37		min. Earth dist.	-9617 Feb 04 j 04:27	6° Π 10'46	17.67622 AU
retrograde	-9624 Oct 23 j 00:45	10° δ 07'02		direct	-9617 Apr 22 j 11:59	4° Π 07'19	
opposition	-9623 Jan 05 j 12:44	8° δ 05'18	0°39'05	evening set	-9617 Jul 25 j 08:56	7° Π 30'00	
min. Earth dist.	-9623 Jan 05 j 23:26	8° δ 04'09	17.34342 AU				
direct	-9623 Mar 23 j 19:01	5° δ 59'57		conjunction	-9617 Aug 09 j 23:50	8° Π 28'15	0°58'12
evening set	-9623 Jun 27 j 04:22	9° δ 29'37		minimum elong	-9617 Aug 09 j 23:50	8° Π 28'15	0°58'42
				max. Earth dist.	-9617 Aug 10 j 05:18	8° Π 29'06	19.70836 AU
conjunction	-9623 Jul 13 j 01:05	10° δ 29'45	0°37'20	morning rise	-9617 Aug 25 j 13:09	9° Π 26'17	
minimum elong	-9623 Jul 13 j 01:04	10° δ 29'44	0°37'40	retrograde	-9617 Nov 25 j 12:18	12° Π 45'39	
max. Earth dist.	-9623 Jul 12 j 14:26	10° δ 28'03	19.36573 AU	opposition	-9616 Feb 09 j 10:21	10° Π 44'38	1°06'05
morning rise	-9623 Jul 28 j 18:37	11° δ 29'25		min. Earth dist.	-9616 Feb 09 j 04:19	10° Π 45'15	17.74132 AU
retrograde	-9623 Oct 27 j 23:51	14° δ 51'33		direct	-9616 Apr 26 j 12:17	8° Π 42'02	
opposition	-9622 Jan 10 j 17:13	12° δ 49'57	0°44'03	evening set	-9616 Jul 29 j 02:16	12° Π 03'18	
min. Earth dist.	-9622 Jan 11 j 01:59	12° δ 49'01	17.38948 AU				
direct	-9622 Mar 28 j 22:20	10° δ 45'00		conjunction	-9616 Aug 13 j 16:23	13° Π 01'14	1°00'24
evening set	-9622 Jul 02 j 03:23	14° δ 13'43		minimum elong	-9616 Aug 13 j 16:23	13° Π 01'14	1°00'56
	-9622 Jul 14 j 09:42	15° δ		max. Earth dist.	-9616 Aug 13 j 23:40	13° Π 02'22	19.77458 AU
conjunction	-9622 Jul 17 j 22:58	15° δ 13'33	0°41'38	morning rise	-9616 Aug 29 j 05:29	13° Π 59'00	
minimum elong	-9622 Jul 17 j 22:57	15° δ 13'33	0°41'59	retrograde	-9616 Nov 29 j 08:56	17° Π 17'45	
max. Earth dist.	-9622 Jul 17 j 15:19	15° δ 12'20	19.41423 AU	opposition	-9615 Feb 13 j 10:51	15° Π 16'46	1°08'17
morning rise	-9622 Aug 02 j 15:35	16° δ 12'58		min. Earth dist.	-9615 Feb 13 j 01:16	15° Π 17'45	17.80861 AU
retrograde	-9622 Nov 02 j 00:14	19° δ 34'46		direct	-9615 May 01 j 12:40	13° Π 14'32	
opposition	-9621 Jan 15 j 21:11	17° δ 33'18	0°48'41	evening set	-9615 Aug 02 j 18:20	16° Π 34'22	
min. Earth dist.	-9621 Jan 16 j 02:38	17° δ 32'44	17.44014 AU				
direct	-9621 Apr 03 j 02:32	15° δ 28'45		conjunction	-9615 Aug 18 j 07:59	17° Π 31'59	1°02'12
evening set	-9621 Jul 07 j 01:33	18° δ 56'26		minimum elong	-9615 Aug 18 j 07:59	17° Π 31'59	1°02'44
				max. Earth dist.	-9615 Aug 18 j 18:50	17° Π 33'40	19.84286 AU
conjunction	-9621 Jul 22 j 20:02	19° δ 55'58	0°45'39	morning rise	-9615 Sep 02 j 20:42	18° Π 29'28	
minimum elong	-9621 Jul 22 j 20:02	19° δ 55'58	0°46'03	retrograde	-9615 Dec 04 j 02:15	21° Π 47'36	
max. Earth dist.	-9621 Jul 22 j 14:59	19° δ 55'10	19.46691 AU	opposition	-9614 Feb 18 j 10:39	19° Π 46'39	1°10'02
morning rise	-9621 Aug 07 j 11:49	20° δ 55'07		min. Earth dist.	-9614 Feb 17 j 23:23	19° Π 47'49	17.87803 AU
retrograde	-9621 Nov 06 j 22:46	24° δ 16'32		direct	-9614 May 06 j 11:15	17° Π 44'48	
opposition	-9620 Jan 21 j 00:59	22° δ 15'11	0°52'58	evening set	-9614 Aug 07 j 09:34	21° Π 03'11	
min. Earth dist.	-9620 Jan 21 j 04:52	22° δ 14'47	17.49476 AU				
direct	-9620 Apr 07 j 04:48	20° δ 11'03		conjunction	-9614 Aug 22 j 22:37	22° Π 00'28	1°03'36
evening set	-9620 Jul 10 j 22:51	23° δ 37'35		minimum elong	-9614 Aug 22 j 22:36	22° Π 00'28	1°04'09
				max. Earth dist.	-9614 Aug 23 j 11:10	22° Π 02'25	19.91340 AU
conjunction	-9620 Jul 26 j 16:15	24° δ 36'48	0°49'19	morning rise	-9614 Sep 07 j 11:19	22° Π 57'42	
minimum elong	-9620 Jul 26 j 16:15	24° δ 36'48	0°49'45	retrograde	-9614 Dec 08 j 21:13	26° Π 15'11	
max. Earth dist.	-9620 Jul 26 j 13:39	24° δ 36'23	19.52323 AU	opposition	-9613 Feb 23 j 09:13	24° Π 14'17	1°11'22
morning rise	-9620 Aug 11 j 07:19	25° δ 35'41		min. Earth dist.	-9613 Feb 22 j 18:36	24° Π 15'47	17.94973 AU
				direct	-9613 May 11 j 09:07	22° Π 12'48	

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Attention, astronomical year style is used: The year -9613 in astronomical counting style is the year 9614 BCE in historical counting style.

evening set	-9613 Aug 11 j 23:41	25° Π 29'46		max. Earth dist.	-9607 Sep 22 j 11:37	22° \mathfrak{D} 27'08	20.44051 AU
				morning rise	-9607 Oct 06 j 21:05	23° \mathfrak{D} 18'30	
conjunction	-9613 Aug 27 j 12:29	26° Π 26'45	1°04'38	retrograde	-9606 Jan 08 j 06:43	26° \mathfrak{D} 31'32	
minimum elong	-9613 Aug 27 j 12:29	26° Π 26'45	1°05'12	min. Earth dist.	-9606 Mar 25 j 20:01	24° \mathfrak{D} 34'25	18.47731 AU
max. Earth dist.	-9613 Aug 28 j 04:37	26° Π 29'14	19.98604 AU	opposition	-9606 Mar 27 j 00:04	24° \mathfrak{D} 31'35	1°08'52
morning rise	-9613 Sep 12 j 00:58	27° Π 23'43		direct	-9606 Jun 11 j 08:31	22° \mathfrak{D} 33'07	
	-9613 Nov 03 j 22:24	0° \mathfrak{D}		evening set	-9606 Sep 10 j 03:19	25° \mathfrak{D} 40'36	
retrograde	-9613 Dec 13 j 12:48	0° \mathfrak{D} 40'33					
	-9612 Jan 23 j 16:01	30° \mathfrak{R} Π		conjunction	-9606 Sep 25 j 15:56	26° \mathfrak{D} 35'47	1°01'18
opposition	-9612 Feb 28 j 07:09	28° Π 39'45	1°12'16	minimum elong	-9606 Sep 25 j 15:57	26° \mathfrak{D} 35'47	1°01'51
min. Earth dist.	-9612 Feb 27 j 14:42	28° Π 41'26	18.02338 AU	max. Earth dist.	-9606 Sep 26 j 20:38	26° \mathfrak{D} 40'04	20.51244 AU
direct	-9612 May 15 j 05:29	26° Π 38'42		morning rise	-9606 Oct 11 j 06:43	27° \mathfrak{D} 31'16	
evening set	-9612 Aug 15 j 12:54	29° Π 54'13			-9606 Dec 01 j 17:47	0° \mathfrak{Q}	
	-9612 Aug 17 j 03:26	0° \mathfrak{D}		retrograde	-9605 Jan 12 j 20:08	0° \mathfrak{Q} 43'41	
					-9605 Feb 25 j 11:31	30° \mathfrak{R} \mathfrak{D}	
conjunction	-9612 Aug 31 j 01:15	0° \mathfrak{D} 50'55	1°05'16	min. Earth dist.	-9605 Mar 30 j 10:48	28° \mathfrak{D} 46'44	18.54792 AU
minimum elong	-9612 Aug 31 j 01:15	0° \mathfrak{D} 50'55	1°05'50	opposition	-9605 Mar 31 j 15:41	28° \mathfrak{D} 43'49	1°06'57
max. Earth dist.	-9612 Aug 31 j 18:53	0° \mathfrak{D} 53'37	20.06063 AU	direct	-9605 Jun 15 j 20:39	26° \mathfrak{D} 45'42	
morning rise	-9612 Sep 15 j 13:55	1° \mathfrak{D} 47'38		evening set	-9605 Sep 14 j 11:16	29° \mathfrak{D} 51'57	
retrograde	-9612 Dec 17 j 06:27	5° \mathfrak{D} 03'50			-9605 Sep 16 j 18:39	0° \mathfrak{Q}	
min. Earth dist.	-9611 Mar 03 j 08:41	3° \mathfrak{D} 05'08	18.09883 AU				
opposition	-9611 Mar 04 j 04:11	3° \mathfrak{D} 03'08	1°12'43	conjunction	-9605 Sep 30 j 00:25	0° \mathfrak{Q} 46'56	0°59'26
direct	-9611 May 20 j 00:36	1° \mathfrak{D} 02'31		minimum elong	-9605 Sep 30 j 00:25	0° \mathfrak{Q} 46'56	0°59'57
evening set	-9611 Aug 20 j 01:09	4° \mathfrak{D} 16'38		max. Earth dist.	-9605 Oct 01 j 07:12	0° \mathfrak{Q} 51'31	20.58141 AU
				morning rise	-9605 Oct 15 j 15:38	1° \mathfrak{Q} 42'15	
conjunction	-9611 Sep 04 j 13:29	5° \mathfrak{D} 13'03	1°05'31	retrograde	-9604 Jan 17 j 08:05	4° \mathfrak{Q} 54'01	
minimum elong	-9611 Sep 04 j 13:29	5° \mathfrak{D} 13'03	1°06'06	min. Earth dist.	-9604 Apr 03 j 00:26	2° \mathfrak{Q} 57'16	18.61519 AU
max. Earth dist.	-9611 Sep 05 j 10:36	5° \mathfrak{D} 16'17	20.13666 AU	opposition	-9604 Apr 04 j 06:30	2° \mathfrak{Q} 54'15	1°04'42
morning rise	-9611 Sep 20 j 02:08	6° \mathfrak{D} 09'32		direct	-9604 Jun 19 j 10:21	0° \mathfrak{Q} 56'26	
retrograde	-9611 Dec 21 j 20:56	9° \mathfrak{D} 25'05		evening set	-9604 Sep 17 j 18:35	4° \mathfrak{Q} 01'29	
min. Earth dist.	-9610 Mar 08 j 03:04	7° \mathfrak{D} 26'43	18.17535 AU				
opposition	-9610 Mar 09 j 00:19	7° \mathfrak{D} 24'33	1°12'46	conjunction	-9604 Oct 03 j 08:01	4° \mathfrak{Q} 56'17	0°57'17
direct	-9610 May 24 j 18:44	5° \mathfrak{D} 24'23		minimum elong	-9604 Oct 03 j 08:02	4° \mathfrak{Q} 56'17	0°57'48
evening set	-9610 Aug 24 j 12:40	8° \mathfrak{D} 37'07		max. Earth dist.	-9604 Oct 04 j 14:42	5° \mathfrak{Q} 00'49	20.64701 AU
				morning rise	-9604 Oct 19 j 00:07	5° \mathfrak{Q} 51'26	
conjunction	-9610 Sep 09 j 00:46	9° \mathfrak{D} 33'15	1°05'23	retrograde	-9603 Jan 20 j 20:15	9° \mathfrak{Q} 02'37	
minimum elong	-9610 Sep 09 j 00:46	9° \mathfrak{D} 33'15	1°05'58	opposition	-9603 Apr 08 j 20:34	7° \mathfrak{Q} 02'51	1°02'08
max. Earth dist.	-9610 Sep 09 j 23:00	9° \mathfrak{D} 36'38	20.21350 AU	min. Earth dist.	-9603 Apr 07 j 14:03	7° \mathfrak{Q} 05'55	18.67914 AU
morning rise	-9610 Sep 24 j 13:50	10° \mathfrak{D} 29'31		direct	-9603 Jun 23 j 21:22	5° \mathfrak{Q} 05'18	
retrograde	-9610 Dec 26 j 13:01	13° \mathfrak{D} 44'27		evening set	-9603 Sep 22 j 01:15	8° \mathfrak{Q} 09'11	
opposition	-9609 Mar 13 j 19:33	11° \mathfrak{D} 44'03	1°12'23				
min. Earth dist.	-9609 Mar 12 j 19:59	11° \mathfrak{D} 46'27	18.25234 AU	conjunction	-9603 Oct 07 j 15:23	9° \mathfrak{Q} 03'50	0°54'51
direct	-9609 May 29 j 10:52	9° \mathfrak{D} 44'20		minimum elong	-9603 Oct 07 j 15:24	9° \mathfrak{Q} 03'50	0°55'20
evening set	-9609 Aug 28 j 23:17	12° \mathfrak{D} 55'43		max. Earth dist.	-9603 Oct 08 j 23:57	9° \mathfrak{Q} 08'37	20.70919 AU
				morning rise	-9603 Oct 23 j 08:06	9° \mathfrak{Q} 58'51	
conjunction	-9609 Sep 13 j 11:32	13° \mathfrak{D} 51'36	1°04'54	retrograde	-9602 Jan 25 j 06:43	13° \mathfrak{Q} 09'24	
minimum elong	-9609 Sep 13 j 11:32	13° \mathfrak{D} 51'36	1°05'28	min. Earth dist.	-9602 Apr 12 j 01:49	11° \mathfrak{Q} 12'50	18.73957 AU
max. Earth dist.	-9609 Sep 14 j 12:49	13° \mathfrak{D} 55'25	20.29024 AU	opposition	-9602 Apr 13 j 09:27	11° \mathfrak{Q} 09'39	0°59'15
morning rise	-9609 Sep 29 j 00:43	14° \mathfrak{D} 47'38		direct	-9602 Jun 28 j 09:16	9° \mathfrak{Q} 12'21	
retrograde	-9609 Dec 31 j 02:50	18° \mathfrak{D} 01'56		evening set	-9602 Sep 26 j 07:28	12° \mathfrak{Q} 15'07	
opposition	-9608 Mar 17 j 13:51	16° \mathfrak{D} 01'42	1°11'36				
min. Earth dist.	-9608 Mar 16 j 12:45	16° \mathfrak{D} 04'15	18.32875 AU	conjunction	-9602 Oct 11 j 22:02	13° \mathfrak{Q} 09'36	0°52'09
direct	-9608 Jun 02 j 03:30	14° \mathfrak{D} 02'26		minimum elong	-9602 Oct 11 j 22:02	13° \mathfrak{Q} 09'36	0°52'37
evening set	-9608 Sep 01 j 09:22	17° \mathfrak{D} 12'29		max. Earth dist.	-9602 Oct 13 j 06:21	13° \mathfrak{Q} 14'20	20.76799 AU
				morning rise	-9602 Oct 27 j 15:45	14° \mathfrak{Q} 04'30	
conjunction	-9608 Sep 16 j 21:31	18° \mathfrak{D} 08'07	1°04'02		-9602 Nov 13 j 11:28	15° \mathfrak{Q}	
minimum elong	-9608 Sep 16 j 21:32	18° \mathfrak{D} 08'07	1°04'36	retrograde	-9601 Jan 29 j 17:14	17° \mathfrak{Q} 14'28	
max. Earth dist.	-9608 Sep 17 j 23:29	18° \mathfrak{D} 12'02	20.36617 AU	opposition	-9601 Apr 17 j 21:35	15° \mathfrak{Q} 14'43	0°56'07
morning rise	-9608 Oct 02 j 11:16	19° \mathfrak{D} 03'58		min. Earth dist.	-9601 Apr 16 j 13:52	15° \mathfrak{Q} 17'54	18.79686 AU
retrograde	-9607 Jan 03 j 17:33	22° \mathfrak{D} 17'38			-9601 Apr 24 j 00:39	15° \mathfrak{R} \mathfrak{Q}	
min. Earth dist.	-9607 Mar 21 j 04:42	20° \mathfrak{D} 20'15	18.40409 AU	direct	-9601 Jul 02 j 18:34	13° \mathfrak{Q} 17'36	
opposition	-9607 Mar 22 j 07:25	20° \mathfrak{D} 17'33	1°10'26		-9601 Sep 05 j 17:15	15° \mathfrak{Q}	
direct	-9607 Jun 06 j 17:09	18° \mathfrak{D} 18'41		evening set	-9601 Sep 30 j 12:55	16° \mathfrak{Q} 19'20	
evening set	-9607 Sep 05 j 18:31	21° \mathfrak{D} 27'26					
				conjunction	-9601 Oct 16 j 04:16	17° \mathfrak{Q} 13'42	0°49'12
conjunction	-9607 Sep 21 j 07:02	22° \mathfrak{D} 22'51	1°02'50	minimum elong	-9601 Oct 16 j 04:16	17° \mathfrak{Q} 13'42	0°49'39
minimum elong	-9607 Sep 21 j 07:02	22° \mathfrak{D} 22'51	1°03'23	max. Earth dist.	-9601 Oct 17 j 14:23	17° \mathfrak{Q} 18'40	20.82368 AU

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Attention, astronomical year style is used: The year -9601 in astronomical counting style is the year 9602 BCE in historical counting style.

morning rise	-9601 Oct 31 j 22:39	18°08'29		direct	-9594 Jul 30 j 20:09	11°00'19'03	
retrograde	-9600 Feb 03 j 02:36	21°01'53		evening set	-9594 Oct 27 j 19:53	14°00'15'54	
min. Earth dist.	-9600 Apr 19 j 23:50	19°01'27	18.85105 AU				
opposition	-9600 Apr 21 j 08:45	19°01'09	0°52'43	conjunction	-9594 Nov 12 j 17:02	15°00'09'50	0°23'16
direct	-9600 Jul 06 j 04:34	17°01'14		minimum elong	-9594 Nov 12 j 17:02	15°00'09'50	0°23'29
evening set	-9600 Oct 03 j 18:09	20°01'22'01		max. Earth dist.	-9594 Nov 14 j 03:05	15°00'14'41	21.12353 AU
				morning rise	-9594 Nov 28 j 18:37	16°00'04'21	
conjunction	-9600 Oct 19 j 10:01	21°01'16'15	0°46'03	retrograde	-9593 Mar 03 j 12:59	19°00'11'06	
minimum elong	-9600 Oct 19 j 10:02	21°01'16'15	0°46'27	opposition	-9593 May 20 j 20:14	17°00'11'50	0°23'17
max. Earth dist.	-9600 Oct 20 j 19:51	21°01'21'10	20.87648 AU	min. Earth dist.	-9593 May 19 j 13:05	17°00'14'57	19.13747 AU
morning rise	-9600 Nov 04 j 05:28	22°01'05'57		direct	-9593 Aug 03 j 23:34	15°00'16'13	
retrograde	-9599 Feb 06 j 11:33	25°01'19'50		evening set	-9593 Oct 31 j 23:51	18°00'12'42	
min. Earth dist.	-9599 Apr 24 j 10:29	23°01'23'24	18.90255 AU				
opposition	-9599 Apr 25 j 19:15	23°01'20'07	0°49'04	conjunction	-9593 Nov 16 j 22:09	19°00'06'38	0°19'00
direct	-9599 Jul 10 j 12:08	21°01'23'24		minimum elong	-9593 Nov 16 j 22:09	19°00'06'38	0°19'10
evening set	-9599 Oct 07 j 22:47	24°01'23'19		max. Earth dist.	-9593 Nov 18 j 08:19	19°00'11'30	21.14882 AU
				morning rise	-9593 Dec 03 j 00:37	20°00'01'11	
conjunction	-9599 Oct 23 j 15:37	25°01'17'27	0°42'41	retrograde	-9592 Mar 06 j 20:53	23°00'07'43	
minimum elong	-9599 Oct 23 j 15:37	25°01'17'27	0°43'04	min. Earth dist.	-9592 May 22 j 19:37	21°00'11'36	19.15978 AU
max. Earth dist.	-9599 Oct 25 j 03:00	25°01'22'34	20.92654 AU	opposition	-9592 May 24 j 02:39	21°00'08'30	0°18'31
morning rise	-9599 Nov 08 j 11:52	26°01'12'04		direct	-9592 Aug 07 j 05:45	19°00'12'58	
retrograde	-9598 Feb 10 j 20:56	29°01'20'29		evening set	-9592 Nov 04 j 04:12	22°00'09'08	
min. Earth dist.	-9598 Apr 28 j 19:06	27°01'24'12	18.95105 AU				
opposition	-9598 Apr 30 j 04:52	27°01'20'49	0°45'13	conjunction	-9592 Nov 20 j 03:22	23°00'03'06	0°14'39
direct	-9598 Jul 14 j 20:19	25°01'24'19		minimum elong	-9592 Nov 20 j 03:22	23°00'03'06	0°14'48
evening set	-9598 Oct 12 j 03:24	28°01'23'26		behind sun begin	-9592 Nov 20 j 00:43	23°00'02'44	
				behind sun end	-9592 Nov 20 j 06:00	23°00'03'28	
conjunction	-9598 Oct 27 j 20:52	29°01'17'30	0°39'07	max. Earth dist.	-9592 Nov 21 j 11:28	23°00'07'40	21.16818 AU
minimum elong	-9598 Oct 27 j 20:52	29°01'17'30	0°39'27	morning rise	-9592 Dec 06 j 07:05	23°00'57'41	
max. Earth dist.	-9598 Oct 29 j 07:37	29°01'22'30	20.97351 AU	retrograde	-9591 Mar 11 j 03:53	27°00'04'02	
	-9598 Nov 09 j 04:55	0°00'00		min. Earth dist.	-9591 May 27 j 03:49	25°00'07'43	19.17612 AU
morning rise	-9598 Nov 12 j 18:15	0°00'12'04		opposition	-9591 May 28 j 08:47	25°00'04'49	0°13'40
retrograde	-9597 Feb 15 j 04:36	3°00'20'03		direct	-9591 Aug 11 j 08:54	23°00'09'19	
min. Earth dist.	-9597 May 03 j 04:42	1°00'23'46	18.99647 AU	evening set	-9591 Nov 08 j 08:28	26°00'05'14	
opposition	-9597 May 04 j 13:49	1°00'20'27	0°41'10				
	-9597 Jun 10 j 11:19	30°00'00		conjunction	-9591 Nov 24 j 08:52	26°00'59'16	0°10'15
direct	-9597 Jul 19 j 02:09	29°01'24'09		minimum elong	-9591 Nov 24 j 08:52	26°00'59'16	0°10'20
	-9597 Aug 25 j 14:51	0°00'00		behind sun begin	-9591 Nov 24 j 03:38	26°00'58'32	
evening set	-9597 Oct 16 j 07:32	2°00'22'36		behind sun end	-9591 Nov 24 j 14:06	26°00'59'59	
				max. Earth dist.	-9591 Nov 25 j 16:38	27°00'03'46	21.18149 AU
conjunction	-9597 Nov 01 j 02:02	3°00'16'35	0°35'22	morning rise	-9591 Dec 10 j 13:32	27°00'53'53	
minimum elong	-9597 Nov 01 j 02:02	3°00'16'35	0°35'42		-9590 Jan 23 j 10:51	0°00'00	
max. Earth dist.	-9597 Nov 02 j 13:58	3°00'21'46	21.01723 AU	retrograde	-9590 Mar 15 j 11:04	1°00'00'03	
morning rise	-9597 Nov 17 j 00:16	4°00'11'07			-9590 May 06 j 21:10	30°00'00	
retrograde	-9596 Feb 19 j 13:57	7°00'18'44		min. Earth dist.	-9590 May 31 j 09:50	29°00'03'41	19.18623 AU
opposition	-9596 May 07 j 22:10	5°00'19'13	0°36'55	opposition	-9590 Jun 01 j 14:24	29°00'00'49	0°08'45
min. Earth dist.	-9596 May 06 j 12:21	5°00'22'36	19.03829 AU	direct	-9590 Aug 15 j 14:18	27°00'05'17	
direct	-9596 Jul 22 j 09:11	3°00'23'08		evening set	-9590 Nov 12 j 12:59	0°00'01'02	
evening set	-9596 Oct 19 j 11:37	6°00'20'57			-9590 Nov 12 j 05:30	0°00'00	
conjunction	-9596 Nov 04 j 06:52	7°00'14'54	0°31'29	conjunction	-9590 Nov 28 j 14:16	0°00'55'06	0°05'49
minimum elong	-9596 Nov 04 j 06:52	7°00'14'54	0°31'45	minimum elong	-9590 Nov 28 j 14:16	0°00'55'06	0°05'52
max. Earth dist.	-9596 Nov 05 j 17:52	7°00'19'55	21.05715 AU	behind sun begin	-9590 Nov 28 j 07:55	0°00'54'14	
morning rise	-9596 Nov 20 j 06:19	8°00'09'25		behind sun end	-9590 Nov 28 j 20:36	0°00'55'59	
retrograde	-9595 Feb 22 j 21:08	11°00'16'43		max. Earth dist.	-9590 Nov 29 j 19:46	0°00'59'17	21.18862 AU
min. Earth dist.	-9595 May 10 j 21:28	9°00'20'33	19.07617 AU	morning rise	-9590 Dec 14 j 20:08	1°00'49'48	
opposition	-9595 May 12 j 06:09	9°00'17'17	0°32'31	retrograde	-9589 Mar 19 j 17:22	4°00'55'50	
direct	-9595 Jul 26 j 13:35	7°00'21'23		opposition	-9589 Jun 05 j 19:42	2°00'56'31	0°03'49
evening set	-9595 Oct 23 j 15:39	10°00'18'41		min. Earth dist.	-9589 Jun 04 j 17:24	2°00'59'10	19.19046 AU
				direct	-9589 Aug 19 j 17:18	1°00'00'55	
conjunction	-9595 Nov 08 j 12:01	11°00'12'37	0°27'26	evening set	-9589 Nov 16 j 17:26	3°00'56'33	
minimum elong	-9595 Nov 08 j 12:01	11°00'12'37	0°27'41				
max. Earth dist.	-9595 Nov 09 j 23:39	11°00'17'43	21.09282 AU	conjunction	-9589 Dec 02 j 19:56	4°00'50'43	0°01'19
morning rise	-9595 Nov 24 j 12:22	12°00'07'07		minimum elong	-9589 Dec 02 j 19:56	4°00'50'43	0°01'20
retrograde	-9594 Feb 27 j 05:53	15°00'14'07		behind sun begin	-9589 Dec 02 j 13:18	4°00'49'48	
min. Earth dist.	-9594 May 15 j 04:26	13°00'18'04	19.10938 AU	behind sun end	-9589 Dec 03 j 02:35	4°00'51'37	
opposition	-9594 May 16 j 13:17	13°00'14'47	0°27'58	max. Earth dist.	-9589 Dec 04 j 01:05	4°00'54'50	21.19016 AU

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Attention, astronomical year style is used: The year -9589 in astronomical counting style is the year 9590 BCE in historical counting style.

morning rise	-9589 Dec 19 j 02:44	5° <u>♁</u> 45'28		morning rise	-9582 Jan 12 j 00:30	29° <u>♁</u> 21'53	
desc. node	-9588 Mar 19 j 02:20	8° <u>♁</u> 51'01			-9582 Jan 23 j 20:34	0° <u>♁</u>	
retrograde	-9588 Mar 23 j 00:16	8° <u>♁</u> 51'23		retrograde	-9582 Apr 16 j 19:03	2° <u>♁</u> 28'08	
min. Earth dist.	-9588 Jun 07 j 22:41	6° <u>♁</u> 54'37	19.18927 AU	min. Earth dist.	-9582 Jul 02 j 10:09	0° <u>♁</u> 30'08	19.08915 AU
opposition	-9588 Jun 09 j 00:34	6° <u>♁</u> 52'00	-0°01'08	opposition	-9582 Jul 03 j 02:47	0° <u>♁</u> 28'25	-0°29'58
direct	-9588 Aug 22 j 22:04	4° <u>♁</u> 56'17			-9582 Jul 14 j 19:45	30° <u>♁</u>	
evening set	-9588 Nov 19 j 22:10	7° <u>♁</u> 51'54		direct	-9582 Sep 15 j 18:21	28° <u>♁</u> 31'49	
					-9582 Nov 15 j 03:00	0° <u>♁</u>	
conjunction	-9588 Dec 06 j 01:37	8° <u>♁</u> 46'08	-0°03'16	evening set	-9582 Dec 14 j 10:19	1° <u>♁</u> 29'11	
minimum elong	-9588 Dec 06 j 01:36	8° <u>♁</u> 46'08	0°03'17				
behind sun begin	-9588 Dec 05 j 18:59	8° <u>♁</u> 45'14		conjunction	-9582 Dec 30 j 19:59	2° <u>♁</u> 24'18	-0°29'07
behind sun end	-9588 Dec 06 j 08:13	8° <u>♁</u> 47'03		minimum elong	-9582 Dec 30 j 19:59	2° <u>♁</u> 24'18	0°29'23
max. Earth dist.	-9588 Dec 07 j 04:32	8° <u>♁</u> 49'56	21.18650 AU	max. Earth dist.	-9582 Dec 31 j 12:47	2° <u>♁</u> 26'40	21.07374 AU
morning rise	-9588 Dec 22 j 09:37	9° <u>♁</u> 41'00		morning rise	-9581 Jan 16 j 09:38	3° <u>♁</u> 19'59	
retrograde	-9587 Mar 27 j 06:15	12° <u>♁</u> 46'51		retrograde	-9581 Apr 21 j 02:23	6° <u>♁</u> 26'29	
min. Earth dist.	-9587 Jun 12 j 05:47	10° <u>♁</u> 49'45	19.18323 AU	opposition	-9581 Jul 07 j 07:20	4° <u>♁</u> 26'45	-0°34'27
opposition	-9587 Jun 13 j 05:21	10° <u>♁</u> 47'22	-0°06'04	min. Earth dist.	-9581 Jul 06 j 17:37	4° <u>♁</u> 28'09	19.05752 AU
direct	-9587 Aug 27 j 00:38	8° <u>♁</u> 51'31		direct	-9581 Sep 19 j 21:16	2° <u>♁</u> 29'58	
evening set	-9587 Nov 24 j 03:08	11° <u>♁</u> 47'12		evening set	-9581 Dec 18 j 18:16	5° <u>♁</u> 27'56	
conjunction	-9587 Dec 10 j 07:49	12° <u>♁</u> 41'33	-0°07'42	conjunction	-9580 Jan 04 j 05:04	6° <u>♁</u> 23'16	-0°33'07
minimum elong	-9587 Dec 10 j 07:48	12° <u>♁</u> 41'33	0°07'46	minimum elong	-9580 Jan 04 j 05:04	6° <u>♁</u> 23'16	0°33'24
behind sun begin	-9587 Dec 10 j 01:48	12° <u>♁</u> 40'44		max. Earth dist.	-9580 Jan 04 j 20:25	6° <u>♁</u> 25'26	21.03981 AU
behind sun end	-9587 Dec 10 j 13:48	12° <u>♁</u> 42'22		morning rise	-9580 Jan 20 j 19:25	7° <u>♁</u> 19'08	
max. Earth dist.	-9587 Dec 11 j 10:16	12° <u>♁</u> 45'17	21.17819 AU	retrograde	-9580 Apr 24 j 12:12	10° <u>♁</u> 25'54	
morning rise	-9587 Dec 26 j 16:41	13° <u>♁</u> 36'30		opposition	-9580 Jul 10 j 11:55	8° <u>♁</u> 26'09	-0°38'48
retrograde	-9586 Mar 31 j 13:33	16° <u>♁</u> 42'19		min. Earth dist.	-9580 Jul 09 j 23:24	8° <u>♁</u> 27'26	19.02107 AU
min. Earth dist.	-9586 Jun 16 j 10:32	14° <u>♁</u> 45'06	19.17265 AU	direct	-9580 Sep 23 j 02:32	6° <u>♁</u> 29'09	
opposition	-9586 Jun 17 j 09:35	14° <u>♁</u> 42'46	-0°10'58	evening set	-9580 Dec 22 j 03:08	9° <u>♁</u> 27'48	
direct	-9586 Aug 31 j 05:07	12° <u>♁</u> 46'47					
evening set	-9586 Nov 28 j 08:34	15° <u>♁</u> 42'36		conjunction	-9579 Jan 07 j 14:45	10° <u>♁</u> 23'21	-0°36'58
				minimum elong	-9579 Jan 07 j 14:44	10° <u>♁</u> 23'21	0°37'18
conjunction	-9586 Dec 14 j 14:07	16° <u>♁</u> 37'05	-0°12'07	max. Earth dist.	-9579 Jan 08 j 02:43	10° <u>♁</u> 25'02	21.00077 AU
minimum elong	-9586 Dec 14 j 14:07	16° <u>♁</u> 37'05	0°12'13	morning rise	-9579 Jan 24 j 05:59	11° <u>♁</u> 19'25	
behind sun begin	-9586 Dec 14 j 09:41	16° <u>♁</u> 36'29		retrograde	-9579 Apr 28 j 20:22	14° <u>♁</u> 26'31	
behind sun end	-9586 Dec 14 j 18:33	16° <u>♁</u> 37'42		opposition	-9579 Jul 14 j 17:00	12° <u>♁</u> 26'42	-0°42'59
max. Earth dist.	-9586 Dec 15 j 14:11	16° <u>♁</u> 40'28	21.16549 AU	min. Earth dist.	-9579 Jul 14 j 07:46	12° <u>♁</u> 27'39	18.97942 AU
morning rise	-9586 Dec 31 j 00:08	17° <u>♁</u> 32'10		direct	-9579 Sep 27 j 06:03	10° <u>♁</u> 29'26	
retrograde	-9585 Apr 04 j 19:30	20° <u>♁</u> 38'01		evening set	-9579 Dec 26 j 12:40	13° <u>♁</u> 28'51	
opposition	-9585 Jun 21 j 14:01	18° <u>♁</u> 38'24	-0°15'50				
min. Earth dist.	-9585 Jun 20 j 17:20	18° <u>♁</u> 40'30	19.15793 AU	conjunction	-9578 Jan 12 j 01:21	14° <u>♁</u> 24'38	-0°40'39
direct	-9585 Sep 04 j 07:19	16° <u>♁</u> 42'15		minimum elong	-9578 Jan 12 j 01:21	14° <u>♁</u> 24'38	0°41'01
evening set	-9585 Dec 02 j 14:00	19° <u>♁</u> 38'19		max. Earth dist.	-9578 Jan 12 j 11:21	14° <u>♁</u> 26'03	20.95646 AU
					-9578 Jan 22 j 11:15	15° <u>♁</u>	
conjunction	-9585 Dec 18 j 20:46	20° <u>♁</u> 32'56	-0°16'29	morning rise	-9578 Jan 28 j 17:10	15° <u>♁</u> 20'54	
minimum elong	-9585 Dec 18 j 20:46	20° <u>♁</u> 32'56	0°16'36	retrograde	-9578 May 03 j 07:09	18° <u>♁</u> 28'20	
max. Earth dist.	-9585 Dec 19 j 20:14	20° <u>♁</u> 36'14	21.14878 AU	opposition	-9578 Jul 18 j 22:07	16° <u>♁</u> 28'27	-0°46'58
morning rise	-9584 Jan 04 j 07:37	21° <u>♁</u> 28'09		min. Earth dist.	-9578 Jul 18 j 14:19	16° <u>♁</u> 29'16	18.93234 AU
retrograde	-9584 Apr 08 j 03:36	24° <u>♁</u> 34'05			-9578 Aug 28 j 07:56	15° <u>♁</u>	
opposition	-9584 Jun 24 j 18:14	22° <u>♁</u> 34'25	-0°20'38	direct	-9578 Oct 01 j 12:39	14° <u>♁</u> 30'54	
min. Earth dist.	-9584 Jun 23 j 22:05	22° <u>♁</u> 36'28	19.13912 AU		-9578 Nov 04 j 05:30	15° <u>♁</u>	
direct	-9584 Sep 07 j 11:33	20° <u>♁</u> 38'08		evening set	-9578 Dec 30 j 23:02	17° <u>♁</u> 31'08	
evening set	-9584 Dec 05 j 20:16	23° <u>♁</u> 34'32					
				conjunction	-9577 Jan 16 j 12:27	18° <u>♁</u> 27'09	-0°44'09
conjunction	-9584 Dec 22 j 03:56	24° <u>♁</u> 29'19	-0°20'47	minimum elong	-9577 Jan 16 j 12:27	18° <u>♁</u> 27'09	0°44'32
minimum elong	-9584 Dec 22 j 03:55	24° <u>♁</u> 29'19	0°20'57	max. Earth dist.	-9577 Jan 16 j 18:53	18° <u>♁</u> 28'04	20.90673 AU
max. Earth dist.	-9584 Dec 23 j 00:44	24° <u>♁</u> 32'14	21.12797 AU	morning rise	-9577 Feb 02 j 05:01	19° <u>♁</u> 23'38	
morning rise	-9583 Jan 07 j 15:51	25° <u>♁</u> 24'40		retrograde	-9577 May 07 j 15:41	22° <u>♁</u> 31'26	
retrograde	-9583 Apr 12 j 10:08	28° <u>♁</u> 30'44		opposition	-9577 Jul 23 j 03:49	20° <u>♁</u> 31'26	-0°50'45
opposition	-9583 Jun 28 j 22:32	26° <u>♁</u> 31'02	-0°25'21	min. Earth dist.	-9577 Jul 22 j 23:22	20° <u>♁</u> 31'54	18.88008 AU
min. Earth dist.	-9583 Jun 28 j 05:02	26° <u>♁</u> 32'49	19.11628 AU	direct	-9577 Oct 05 j 16:58	18° <u>♁</u> 33'32	
direct	-9583 Sep 11 j 13:58	24° <u>♁</u> 34'35		evening set	-9576 Jan 04 j 09:48	21° <u>♁</u> 34'38	
evening set	-9583 Dec 10 j 02:56	27° <u>♁</u> 31'26					
				conjunction	-9576 Jan 21 j 00:13	22° <u>♁</u> 30'55	-0°47'27
conjunction	-9583 Dec 26 j 11:48	28° <u>♁</u> 26'23	-0°25'00	minimum elong	-9576 Jan 21 j 00:13	22° <u>♁</u> 30'55	0°47'52
minimum elong	-9583 Dec 26 j 11:48	28° <u>♁</u> 26'23	0°25'12	max. Earth dist.	-9576 Jan 21 j 04:39	22° <u>♁</u> 31'32	20.85210 AU
max. Earth dist.	-9583 Dec 27 j 07:33	28° <u>♁</u> 29'09	21.10310 AU	morning rise	-9576 Feb 06 j 17:19	23° <u>♁</u> 27'36	

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Attention, astronomical year style is used: The year -9576 in astronomical counting style is the year 9577 BCE in historical counting style.

retrograde	-9576 May 11 j 03:23	26° \mathbb{M} 35'48		evening set	-9569 Feb 03 j 13:01	20° \mathbb{A} 40'04	
opposition	-9576 Jul 26 j 09:39	24° \mathbb{M} 35'41	-0°54'16				
min. Earth dist.	-9576 Jul 26 j 06:35	24° \mathbb{M} 36'00	18.82307 AU	conjunction	-9569 Feb 20 j 07:47	21° \mathbb{A} 38'20	-1°03'13
direct	-9576 Oct 09 j 00:42	22° \mathbb{M} 37'23		minimum elong	-9569 Feb 20 j 07:47	21° \mathbb{A} 38'20	1°03'47
evening set	-9575 Jan 07 j 21:39	25° \mathbb{M} 39'25		max. Earth dist.	-9569 Feb 19 j 18:09	21° \mathbb{A} 36'20	20.38496 AU
				morning rise	-9569 Mar 09 j 03:12	22° \mathbb{A} 36'44	
conjunction	-9575 Jan 24 j 12:45	26° \mathbb{M} 35'58	-0°50'31	retrograde	-9569 Jun 10 j 16:33	25° \mathbb{A} 48'31	
minimum elong	-9575 Jan 24 j 12:45	26° \mathbb{M} 35'58	0°50'56	opposition	-9569 Aug 24 j 15:56	23° \mathbb{A} 47'30	-1°10'47
max. Earth dist.	-9575 Jan 24 j 13:45	26° \mathbb{M} 36'06	20.79295 AU	min. Earth dist.	-9569 Aug 25 j 04:21	23° \mathbb{A} 46'10	18.34926 AU
morning rise	-9575 Feb 10 j 06:29	27° \mathbb{M} 32'53		direct	-9569 Nov 07 j 12:18	21° \mathbb{A} 46'15	
	-9575 Apr 04 j 07:24	0° \mathbb{A}		evening set	-9568 Feb 08 j 06:41	24° \mathbb{A} 56'40	
retrograde	-9575 May 15 j 12:37	0° \mathbb{A} 41'29		max. Earth dist.	-9568 Feb 24 j 09:54	25° \mathbb{A} 52'54	20.31300 AU
	-9575 Jun 26 j 05:58	30° \mathbb{R} \mathbb{M}					
opposition	-9575 Jul 30 j 15:52	28° \mathbb{M} 41'13	-0°57'33	conjunction	-9568 Feb 25 j 01:52	25° \mathbb{A} 55'15	-1°04'15
min. Earth dist.	-9575 Jul 30 j 16:10	28° \mathbb{M} 41'11	18.76203 AU	minimum elong	-9568 Feb 25 j 01:52	25° \mathbb{A} 55'14	1°04'49
direct	-9575 Oct 13 j 06:19	26° \mathbb{M} 42'30		morning rise	-9568 Mar 12 j 21:24	26° \mathbb{A} 53'54	
evening set	-9574 Jan 12 j 10:07	29° \mathbb{M} 45'33			-9568 May 29 j 18:41	0° \mathbb{B}	
	-9574 Jan 16 j 17:06	0° \mathbb{A}		retrograde	-9568 Jun 14 j 08:00	0° \mathbb{B} 06'20	
					-9568 Jun 29 j 20:35	30° \mathbb{R} \mathbb{A}	
conjunction	-9574 Jan 29 j 02:06	0° \mathbb{A} 42'21	-0°53'20	opposition	-9568 Aug 28 j 02:16	28° \mathbb{A} 05'15	-1°11'45
minimum elong	-9574 Jan 29 j 02:06	0° \mathbb{A} 42'21	0°53'48	min. Earth dist.	-9568 Aug 28 j 15:48	28° \mathbb{A} 03'48	18.27695 AU
max. Earth dist.	-9574 Jan 29 j 01:04	0° \mathbb{A} 42'12	20.73021 AU	direct	-9568 Nov 11 j 00:58	26° \mathbb{A} 03'37	
morning rise	-9574 Feb 14 j 20:14	1° \mathbb{A} 39'31		evening set	-9567 Feb 12 j 01:35	29° \mathbb{A} 15'27	
retrograde	-9574 May 20 j 00:58	4° \mathbb{A} 48'33			-9567 Feb 24 j 19:41	0° \mathbb{B}	
opposition	-9574 Aug 03 j 22:26	2° \mathbb{A} 48'08	-1°00'33				
min. Earth dist.	-9574 Aug 03 j 23:57	2° \mathbb{A} 47'58	18.69770 AU	conjunction	-9567 Feb 28 j 21:04	0° \mathbb{B} 14'20	-1°04'55
direct	-9574 Oct 17 j 14:41	0° \mathbb{A} 48'59		minimum elong	-9567 Feb 28 j 21:04	0° \mathbb{B} 14'20	1°05'30
evening set	-9573 Jan 16 j 23:20	3° \mathbb{A} 53'06		max. Earth dist.	-9567 Feb 28 j 02:45	0° \mathbb{B} 11'38	20.24022 AU
				morning rise	-9567 Mar 17 j 16:27	1° \mathbb{B} 13'15	
conjunction	-9573 Feb 02 j 15:53	4° \mathbb{A} 50'11	-0°55'53	retrograde	-9567 Jun 18 j 22:52	4° \mathbb{B} 26'19	
minimum elong	-9573 Feb 02 j 15:53	4° \mathbb{A} 50'11	0°56'23	opposition	-9567 Sep 01 j 13:30	2° \mathbb{B} 25'12	-1°12'20
max. Earth dist.	-9573 Feb 02 j 11:47	4° \mathbb{A} 49'36	20.66443 AU	min. Earth dist.	-9567 Sep 02 j 06:01	2° \mathbb{B} 23'26	18.20387 AU
morning rise	-9573 Feb 19 j 10:27	5° \mathbb{A} 47'35		direct	-9567 Nov 15 j 13:02	0° \mathbb{B} 23'10	
retrograde	-9573 May 24 j 11:38	8° \mathbb{A} 57'07		evening set	-9566 Feb 16 j 21:30	3° \mathbb{B} 36'28	
opposition	-9573 Aug 08 j 05:38	6° \mathbb{A} 56'31	-1°03'15				
min. Earth dist.	-9573 Aug 08 j 10:13	6° \mathbb{A} 56'02	18.63084 AU	conjunction	-9566 Mar 05 j 17:09	4° \mathbb{B} 35'38	-1°05'13
direct	-9573 Oct 21 j 21:44	4° \mathbb{A} 56'56		minimum elong	-9566 Mar 05 j 17:09	4° \mathbb{B} 35'38	1°05'48
evening set	-9572 Jan 21 j 13:20	8° \mathbb{A} 02'11		max. Earth dist.	-9566 Mar 04 j 20:04	4° \mathbb{B} 32'31	20.16679 AU
				morning rise	-9566 Mar 22 j 12:29	5° \mathbb{B} 34'48	
conjunction	-9572 Feb 07 j 06:37	8° \mathbb{A} 59'34	-0°58'10	retrograde	-9566 Jun 23 j 15:48	8° \mathbb{B} 48'33	
minimum elong	-9572 Feb 07 j 06:37	8° \mathbb{A} 59'34	0°58'41	opposition	-9566 Sep 06 j 01:37	6° \mathbb{B} 47'21	-1°12'29
max. Earth dist.	-9572 Feb 07 j 00:31	8° \mathbb{A} 58'41	20.59660 AU	min. Earth dist.	-9566 Sep 06 j 19:21	6° \mathbb{B} 45'27	18.13007 AU
morning rise	-9572 Feb 24 j 01:30	9° \mathbb{A} 57'12		direct	-9566 Nov 20 j 04:12	4° \mathbb{B} 44'55	
retrograde	-9572 May 28 j 00:41	13° \mathbb{A} 07'14		evening set	-9565 Feb 21 j 18:12	7° \mathbb{B} 59'39	
opposition	-9572 Aug 11 j 13:06	11° \mathbb{A} 06'31	-1°05'39				
min. Earth dist.	-9572 Aug 11 j 18:45	11° \mathbb{A} 05'55	18.56213 AU	conjunction	-9565 Mar 10 j 14:03	8° \mathbb{B} 59'08	-1°05'09
direct	-9572 Oct 25 j 06:54	9° \mathbb{A} 06'30		minimum elong	-9565 Mar 10 j 14:03	8° \mathbb{B} 59'08	1°05'43
evening set	-9571 Jan 25 j 04:22	12° \mathbb{A} 12'57		max. Earth dist.	-9565 Mar 09 j 14:57	8° \mathbb{B} 55'42	20.09243 AU
				morning rise	-9565 Mar 27 j 09:01	9° \mathbb{B} 58'32	
conjunction	-9571 Feb 10 j 22:10	13° \mathbb{A} 10'37	-1°00'10	retrograde	-9565 Jun 28 j 07:56	13° \mathbb{B} 12'57	
minimum elong	-9571 Feb 10 j 22:10	13° \mathbb{A} 10'37	1°00'42	opposition	-9565 Sep 10 j 14:45	11° \mathbb{B} 11'40	-1°12'13
max. Earth dist.	-9571 Feb 10 j 13:12	13° \mathbb{A} 09'19	20.52705 AU	min. Earth dist.	-9565 Sep 11 j 11:17	11° \mathbb{B} 09'28	18.05541 AU
morning rise	-9571 Feb 27 j 17:20	14° \mathbb{A} 08'31		direct	-9565 Nov 24 j 18:11	9° \mathbb{B} 08'49	
retrograde	-9571 Jun 01 j 12:55	17° \mathbb{A} 19'06		evening set	-9564 Feb 26 j 16:03	12° \mathbb{B} 25'00	
opposition	-9571 Aug 15 j 21:27	15° \mathbb{A} 18'15	-1°07'43	max. Earth dist.	-9564 Mar 13 j 09:45	13° \mathbb{B} 20'51	20.01751 AU
min. Earth dist.	-9571 Aug 16 j 06:02	15° \mathbb{A} 17'21	18.49203 AU				
direct	-9571 Oct 29 j 15:27	13° \mathbb{A} 17'48		conjunction	-9564 Mar 14 j 11:52	13° \mathbb{B} 24'45	-1°04'41
evening set	-9570 Jan 29 j 20:12	16° \mathbb{A} 25'32		minimum elong	-9564 Mar 14 j 11:52	13° \mathbb{B} 24'45	1°05'15
				morning rise	-9564 Mar 31 j 06:41	14° \mathbb{B} 24'23	
conjunction	-9570 Feb 15 j 14:34	17° \mathbb{A} 23'30	-1°01'51	retrograde	-9564 Jul 02 j 02:23	17° \mathbb{B} 39'27	
minimum elong	-9570 Feb 15 j 14:33	17° \mathbb{A} 23'30	1°02'23	opposition	-9564 Sep 14 j 04:30	15° \mathbb{B} 38'04	-1°11'31
max. Earth dist.	-9570 Feb 15 j 03:27	17° \mathbb{A} 21'53	20.45644 AU	min. Earth dist.	-9564 Sep 15 j 02:22	15° \mathbb{B} 35'43	17.98029 AU
morning rise	-9570 Mar 04 j 09:54	18° \mathbb{A} 21'39		direct	-9564 Nov 28 j 11:45	13° \mathbb{B} 34'45	
retrograde	-9570 Jun 06 j 03:04	21° \mathbb{A} 32'49		evening set	-9563 Mar 02 j 14:46	16° \mathbb{B} 52'23	
opposition	-9570 Aug 20 j 06:14	19° \mathbb{A} 31'52	-1°09'26	max. Earth dist.	-9563 Mar 18 j 06:59	17° \mathbb{B} 48'17	19.94218 AU
min. Earth dist.	-9570 Aug 20 j 15:48	19° \mathbb{A} 30'51	18.42098 AU				
direct	-9570 Nov 03 j 02:08	17° \mathbb{A} 31'01		conjunction	-9563 Mar 19 j 10:41	17° \mathbb{B} 52'26	-1°03'49

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Attention, astronomical year style is used: The year -9563 in astronomical counting style is the year 9564 BCE in historical counting style.

minimum elong	-9563 Mar 19 j 10:41	17° S 52'26	1°04'23	opposition	-9557 Oct 16 j 06:50	17° N 36'06	-0°54'27
morning rise	-9563 Apr 05 j 04:58	18° S 52'18		min. Earth dist.	-9557 Oct 17 j 13:00	17° N 32'48	17.49900 AU
retrograde	-9563 Jul 06 j 19:56	22° S 07'59		direct	-9557 Dec 31 j 06:23	15° N 29'58	
opposition	-9563 Sep 18 j 19:25	20° S 06'29	-1°10'22	evening set	-9556 Apr 05 j 01:20	18° N 56'55	
min. Earth dist.	-9563 Sep 19 j 19:43	20° S 03'51	17.90506 AU	max. Earth dist.	-9556 Apr 20 j 05:42	19° N 52'51	19.47107 AU
direct	-9563 Dec 03 j 03:58	18° S 02'43					
evening set	-9562 Mar 07 j 14:17	21° S 21'46		conjunction	-9556 Apr 21 j 18:18	19° N 58'31	-0°47'00
max. Earth dist.	-9562 Mar 23 j 03:24	22° S 17'28	19.86727 AU	minimum elong	-9556 Apr 21 j 18:18	19° N 58'31	0°47'25
				morning rise	-9556 May 08 j 07:47	20° N 59'38	
conjunction	-9562 Mar 24 j 09:55	22° S 22'04	-1°02'34	retrograde	-9556 Aug 07 j 22:57	24° N 19'30	
minimum elong	-9562 Mar 24 j 09:55	22° S 22'04	1°03'08	opposition	-9556 Oct 20 j 03:53	22° N 17'19	-0°50'22
morning rise	-9562 Apr 10 j 03:53	23° S 22'09		min. Earth dist.	-9556 Oct 21 j 10:44	22° N 13'57	17.44572 AU
retrograde	-9562 Jul 11 j 15:30	26° S 38'29		direct	-9555 Jan 04 j 05:14	20° N 10'57	
opposition	-9562 Sep 23 j 11:01	24° S 36'50	-1°08'47	evening set	-9555 Apr 10 j 05:12	23° N 39'04	
min. Earth dist.	-9562 Sep 24 j 12:26	24° S 34'05	17.83069 AU	max. Earth dist.	-9555 Apr 25 j 09:49	24° N 35'15	19.42040 AU
direct	-9562 Dec 07 j 23:13	22° S 32'36					
evening set	-9561 Mar 12 j 14:27	25° S 53'03		conjunction	-9555 Apr 26 j 21:31	24° N 40'49	-0°43'09
max. Earth dist.	-9561 Mar 28 j 02:46	26° S 48'53	19.79350 AU	minimum elong	-9555 Apr 26 j 21:32	24° N 40'49	0°43'33
				morning rise	-9555 May 13 j 09:56	25° N 42'02	
conjunction	-9561 Mar 29 j 10:01	26° S 53'37	-1°00'55	retrograde	-9555 Aug 12 j 23:20	29° N 02'27	
minimum elong	-9561 Mar 29 j 10:01	26° S 53'37	1°01'28	opposition	-9555 Oct 25 j 02:01	27° N 00'17	-0°45'55
morning rise	-9561 Apr 15 j 03:16	27° S 53'54		min. Earth dist.	-9555 Oct 26 j 08:34	26° N 56'56	17.39758 AU
	-9561 May 25 j 07:35	0° N		direct	-9554 Jan 09 j 05:35	24° N 53'46	
retrograde	-9561 Jul 16 j 10:42	1° N 10'50		evening set	-9554 Apr 15 j 09:30	28° N 22'56	
	-9561 Sep 07 j 23:22	30° N		max. Earth dist.	-9554 Apr 30 j 12:23	29° N 19'07	19.37491 AU
opposition	-9561 Sep 28 j 03:33	29° S 09'04	-1°06'46				
min. Earth dist.	-9561 Sep 29 j 06:47	29° S 06'06	17.75787 AU	conjunction	-9554 May 02 j 00:50	29° N 24'48	-0°39'00
direct	-9561 Dec 12 j 17:34	27° S 04'22		minimum elong	-9554 May 02 j 00:51	29° N 24'48	0°39'22
	-9560 Mar 09 j 04:00	0° N			-9554 May 11 j 10:39	0° N	
evening set	-9560 Mar 16 j 15:25	0° N 26'12		morning rise	-9554 May 18 j 12:14	0° N 26'07	
max. Earth dist.	-9560 Apr 01 j 00:47	1° N 21'52	19.72184 AU	retrograde	-9554 Aug 17 j 22:11	3° N 47'04	
				opposition	-9554 Oct 30 j 01:05	1° N 44'55	-0°41'07
conjunction	-9560 Apr 02 j 10:33	1° N 27'00	-0°58'53	min. Earth dist.	-9554 Oct 31 j 08:19	1° N 41'30	17.35476 AU
minimum elong	-9560 Apr 02 j 10:34	1° N 27'00	0°59'24		-9554 Dec 16 j 07:14	30° N	
morning rise	-9560 Apr 19 j 03:23	2° N 27'30		direct	-9553 Jan 14 j 06:22	29° N 38'16	
retrograde	-9560 Jul 20 j 07:12	5° N 45'02			-9553 Feb 12 j 00:47	0° N	
opposition	-9560 Oct 01 j 20:56	3° N 43'07	-1°04'18	evening set	-9553 Apr 20 j 14:12	3° N 08'25	
min. Earth dist.	-9560 Oct 03 j 01:05	3° N 40'04	17.68758 AU	max. Earth dist.	-9553 May 05 j 17:02	4° N 04'47	19.33465 AU
direct	-9560 Dec 16 j 14:04	1° N 38'00					
evening set	-9559 Mar 21 j 16:59	5° N 01'11		conjunction	-9553 May 07 j 04:40	4° N 10'22	-0°34'33
max. Earth dist.	-9559 Apr 06 j 02:06	5° N 57'03	19.65295 AU	minimum elong	-9553 May 07 j 04:40	4° N 10'22	0°34'51
				morning rise	-9553 May 23 j 14:57	5° N 11'45	
conjunction	-9559 Apr 07 j 11:52	6° N 02'13	-0°56'27	retrograde	-9553 Aug 22 j 23:16	8° N 33'09	
minimum elong	-9559 Apr 07 j 11:52	6° N 02'13	0°56'58	opposition	-9553 Nov 04 j 00:51	6° N 31'04	-0°36'01
morning rise	-9559 Apr 24 j 03:48	7° N 02'53		min. Earth dist.	-9553 Nov 05 j 07:22	6° N 27'44	17.31691 AU
retrograde	-9559 Jul 25 j 04:16	10° N 21'00		direct	-9552 Jan 19 j 09:24	4° N 24'20	
opposition	-9559 Oct 06 j 15:18	8° N 18'59	-1°01'26	evening set	-9552 Apr 24 j 19:18	7° N 55'20	
min. Earth dist.	-9559 Oct 07 j 20:32	8° N 15'48	17.62041 AU	max. Earth dist.	-9552 May 09 j 20:55	8° N 51'43	19.29922 AU
direct	-9559 Dec 21 j 10:35	6° N 13'29					
evening set	-9558 Mar 26 j 19:18	9° N 37'58		conjunction	-9552 May 11 j 08:43	8° N 57'21	-0°29'50
max. Earth dist.	-9558 Apr 11 j 01:45	10° N 33'43	19.58776 AU	minimum elong	-9552 May 11 j 08:43	8° N 57'21	0°30'06
				morning rise	-9552 May 27 j 17:49	9° N 58'45	
conjunction	-9558 Apr 12 j 13:30	10° N 39'12	-0°53'40	retrograde	-9552 Aug 26 j 22:33	13° N 20'36	
minimum elong	-9558 Apr 12 j 13:30	10° N 39'12	0°54'08	opposition	-9552 Nov 08 j 01:43	11° N 18'32	-0°30'38
morning rise	-9558 Apr 29 j 04:48	11° N 40'03		min. Earth dist.	-9552 Nov 09 j 08:56	11° N 15'07	17.28398 AU
retrograde	-9558 Jul 30 j 01:43	14° N 58'46		direct	-9551 Jan 23 j 12:01	9° N 11'42	
opposition	-9558 Oct 11 j 10:37	12° N 56'39	-0°58'08	evening set	-9551 Apr 30 j 00:32	12° N 43'26	
min. Earth dist.	-9558 Oct 12 j 16:28	12° N 53'24	17.55745 AU	max. Earth dist.	-9551 May 15 j 01:40	13° N 39'55	19.26873 AU
direct	-9558 Dec 26 j 08:04	10° N 50'47					
evening set	-9557 Mar 31 j 21:51	14° N 16'32		conjunction	-9551 May 16 j 12:49	13° N 45'28	-0°24'53
	-9557 Apr 12 j 19:04	15° N		minimum elong	-9551 May 16 j 12:49	13° N 45'28	0°25'07
max. Earth dist.	-9557 Apr 16 j 04:33	15° N 12'34	19.52698 AU	morning rise	-9551 Jun 01 j 20:45	14° N 46'53	
				retrograde	-9551 Sep 01 j 00:29	18° N 09'06	
conjunction	-9557 Apr 17 j 15:39	15° N 17'59	-0°50'30	opposition	-9551 Nov 13 j 03:18	16° N 07'03	-0°25'00
minimum elong	-9557 Apr 17 j 15:39	15° N 17'59	0°50'57	min. Earth dist.	-9551 Nov 14 j 09:11	16° N 03'47	17.25582 AU
morning rise	-9557 May 04 j 05:58	16° N 18'58		direct	-9550 Jan 28 j 17:24	14° N 00'10	
retrograde	-9557 Aug 04 j 00:46	19° N 38'16		evening set	-9550 May 05 j 05:50	17° N 32'28	

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Attention, astronomical year style is used: The year -9550 in astronomical counting style is the year 9551 BCE in historical counting style.

max. Earth dist.	-9550 May 20 j 06:41	18° H 29'05	19.24303 AU	behind sun end	-9545 Jun 15 j 15:43	12° Y 45'04	
				morning rise	-9545 Jul 01 j 10:06	13° Y 45'03	
conjunction	-9550 May 21 j 17:00	18° H 34'30	-0°19'46	retrograde	-9545 Sep 30 j 09:18	17° Y 08'08	
minimum elong	-9550 May 21 j 17:00	18° H 34'30	0°19'56	opposition	-9545 Dec 12 j 23:55	15° Y 05'59	0°11'07
morning rise	-9550 Jun 06 j 23:36	19° H 35'54		min. Earth dist.	-9545 Dec 13 j 22:36	15° Y 03'31	17.20365 AU
retrograde	-9550 Sep 06 j 00:29	22° H 58'26		direct	-9544 Feb 28 j 00:52	12° Y 59'10	
opposition	-9550 Nov 18 j 05:37	20° H 56'22	-0°19'11	evening set	-9544 Jun 03 j 08:20	16° Y 31'57	
min. Earth dist.	-9550 Nov 19 j 11:56	20° H 53'04	17.23272 AU				
direct	-9549 Feb 02 j 21:01	18° H 49'26		conjunction	-9544 Jun 19 j 11:45	17° Y 33'20	0°12'44
evening set	-9549 May 10 j 11:00	22° H 22'10		minimum elong	-9544 Jun 19 j 11:45	17° Y 33'20	0°12'50
max. Earth dist.	-9549 May 25 j 11:11	23° H 18'49	19.22259 AU	behind sun begin	-9544 Jun 19 j 07:36	17° Y 32'41	
				behind sun end	-9544 Jun 19 j 15:54	17° Y 33'59	
conjunction	-9549 May 26 j 20:54	23° H 24'10	-0°14'29	max. Earth dist.	-9544 Jun 18 j 12:07	17° Y 29'34	19.20957 AU
minimum elong	-9549 May 26 j 20:54	23° H 24'10	0°14'38	morning rise	-9544 Jul 05 j 10:47	18° Y 34'06	
behind sun begin	-9549 May 26 j 18:07	23° H 23'45		retrograde	-9544 Oct 04 j 09:30	21° Y 57'08	
behind sun end	-9549 May 26 j 23:41	23° H 24'36		opposition	-9544 Dec 17 j 04:35	19° Y 55'00	0°17'06
morning rise	-9549 Jun 12 j 02:24	24° H 25'32		min. Earth dist.	-9544 Dec 18 j 01:38	19° Y 52'44	17.21787 AU
retrograde	-9549 Sep 11 j 03:10	27° H 48'18		direct	-9543 Mar 04 j 05:59	17° Y 48'24	
opposition	-9549 Nov 23 j 08:24	25° H 46'13	-0°13'14	evening set	-9543 Jun 08 j 11:06	21° Y 20'47	
min. Earth dist.	-9549 Nov 24 j 12:53	25° H 43'08	17.21480 AU				
direct	-9548 Feb 08 j 03:19	23° H 39'15		conjunction	-9543 Jun 24 j 12:59	22° Y 21'57	0°18'02
evening set	-9548 May 14 j 16:03	27° H 12'17		minimum elong	-9543 Jun 24 j 12:59	22° Y 21'57	0°18'11
max. Earth dist.	-9548 May 29 j 16:54	28° H 09'09	19.20742 AU	max. Earth dist.	-9543 Jun 23 j 14:51	22° Y 18'25	19.22749 AU
				morning rise	-9543 Jul 10 j 10:57	23° Y 22'32	
conjunction	-9548 May 31 j 00:48	28° H 14'13	-0°09'07	retrograde	-9543 Oct 09 j 11:08	26° Y 45'30	
minimum elong	-9548 May 31 j 00:48	28° H 14'13	0°09'11	opposition	-9543 Dec 22 j 09:17	24° Y 43'25	0°22'57
behind sun begin	-9548 May 30 j 19:09	28° H 13'21		min. Earth dist.	-9543 Dec 23 j 03:36	24° Y 41'27	17.23940 AU
behind sun end	-9548 May 31 j 06:27	28° H 15'06		direct	-9542 Mar 09 j 12:30	22° Y 37'03	
morning rise	-9548 Jun 16 j 04:52	29° H 15'31		evening set	-9542 Jun 13 j 13:08	26° Y 08'57	
	-9548 Jun 28 j 10:45	0° Y					
retrograde	-9548 Sep 15 j 03:30	2° Y 38'26		conjunction	-9542 Jun 29 j 13:51	27° Y 09'53	0°23'11
opposition	-9548 Nov 27 j 11:47	0° Y 36'21	-0°07'10	minimum elong	-9542 Jun 29 j 13:51	27° Y 09'53	0°23'23
min. Earth dist.	-9548 Nov 28 j 16:13	0° Y 33'16	17.20246 AU	max. Earth dist.	-9542 Jun 28 j 19:29	27° Y 06'57	19.25259 AU
	-9548 Dec 11 j 14:52	30° R H		morning rise	-9542 Jul 15 j 10:32	28° Y 10'15	
direct	-9547 Feb 12 j 07:06	28° H 29'21			-9542 Aug 16 j 14:04	0° B	
	-9547 Apr 13 j 07:44	0° Y		retrograde	-9542 Oct 14 j 11:08	1° B 33'05	
evening set	-9547 May 19 j 20:55	2° Y 02'32			-9542 Dec 16 j 05:45	30° R Y	
max. Earth dist.	-9547 Jun 03 j 21:05	2° Y 59'25	19.19818 AU	opposition	-9542 Dec 27 j 13:56	29° Y 31'07	0°28'38
				min. Earth dist.	-9542 Dec 28 j 05:58	29° Y 29'24	17.26781 AU
conjunction	-9547 Jun 05 j 04:14	3° Y 04'23	-0°03'41	direct	-9541 Mar 14 j 18:04	27° Y 25'04	
minimum elong	-9547 Jun 05 j 04:13	3° Y 04'23	0°03'43		-9541 Jun 02 j 23:44	0° B	
behind sun begin	-9547 Jun 04 j 21:36	3° Y 03'21		evening set	-9541 Jun 18 j 14:37	0° B 56'21	
behind sun end	-9547 Jun 05 j 10:49	3° Y 05'25					
morning rise	-9547 Jun 21 j 07:10	4° Y 05'35		conjunction	-9541 Jul 04 j 13:55	1° B 57'03	0°28'11
retrograde	-9547 Sep 20 j 06:36	7° Y 28'37		minimum elong	-9541 Jul 04 j 13:55	1° B 57'03	0°28'26
opposition	-9547 Dec 02 j 15:33	5° Y 26'29	-0°01'03	max. Earth dist.	-9541 Jul 03 j 21:17	1° B 54'24	19.28436 AU
min. Earth dist.	-9547 Dec 03 j 17:39	5° Y 23'40	17.19625 AU	morning rise	-9541 Jul 20 j 09:37	2° B 57'12	
asc. node	-9546 Feb 02 j 20:57	3° Y 25'10		retrograde	-9541 Oct 19 j 11:47	6° B 19'52	
direct	-9546 Feb 17 j 13:45	3° Y 19'31		opposition	-9540 Jan 01 j 18:37	4° B 18'01	0°34'06
evening set	-9546 May 25 j 01:04	6° Y 52'42		min. Earth dist.	-9540 Jan 02 j 08:17	4° B 16'34	17.30273 AU
max. Earth dist.	-9546 Jun 09 j 02:59	7° Y 49'55	19.19516 AU	direct	-9540 Mar 18 j 23:21	2° B 12'19	
				evening set	-9540 Jun 22 j 15:16	5° B 42'54	
conjunction	-9546 Jun 10 j 07:12	7° Y 54'25	0°01'55				
minimum elong	-9546 Jun 10 j 07:12	7° Y 54'25	0°01'56	conjunction	-9540 Jul 08 j 13:23	6° B 43'19	0°32'58
behind sun begin	-9546 Jun 10 j 00:32	7° Y 53'22		minimum elong	-9540 Jul 08 j 13:23	6° B 43'19	0°33'16
behind sun end	-9546 Jun 10 j 13:52	7° Y 55'27		max. Earth dist.	-9540 Jul 08 j 00:18	6° B 41'15	19.32225 AU
morning rise	-9546 Jun 26 j 08:44	8° Y 55'29		morning rise	-9540 Jul 24 j 07:55	7° B 43'15	
retrograde	-9546 Sep 25 j 06:59	12° Y 18'35		retrograde	-9540 Oct 23 j 11:51	11° B 05'42	
opposition	-9546 Dec 07 j 19:46	10° Y 16'26	0°05'03	opposition	-9539 Jan 05 j 23:15	9° B 04'00	0°39'19
min. Earth dist.	-9546 Dec 08 j 21:02	10° Y 13'42	17.19648 AU	min. Earth dist.	-9539 Jan 06 j 10:09	9° B 02'50	17.34326 AU
direct	-9545 Feb 22 j 18:03	8° Y 09'31		direct	-9539 Mar 24 j 05:05	6° B 58'41	
evening set	-9545 May 30 j 05:01	11° Y 42'33		evening set	-9539 Jun 27 j 15:20	10° B 28'25	
max. Earth dist.	-9545 Jun 14 j 06:31	12° Y 39'47	19.19886 AU				
				conjunction	-9539 Jul 13 j 12:06	11° B 28'34	0°37'31
conjunction	-9545 Jun 15 j 09:39	12° Y 44'07	0°07'22	minimum elong	-9539 Jul 13 j 12:06	11° B 28'34	0°37'51
minimum elong	-9545 Jun 15 j 09:38	12° Y 44'07	0°07'26	max. Earth dist.	-9539 Jul 13 j 01:06	11° B 26'49	19.36542 AU
behind sun begin	-9545 Jun 15 j 03:34	12° Y 43'10		morning rise	-9539 Jul 29 j 05:43	12° B 28'15	

Attention, astronomical year style is used: The year -9539 in astronomical counting style is the year 9540 BCE in historical counting style.

	-9539 Sep 15 j 13:17	15°♄	direct	-9532 Apr 26 j 22:13	9°♄41'55	
retrograde	-9539 Oct 28 j 11:20	15°♄50'26	evening set	-9532 Jul 29 j 13:26	13°♄03'18	
	-9539 Dec 12 j 07:09	15°♄♄				
opposition	-9538 Jan 11 j 03:47	13°♄48'52 0°44'14	conjunction	-9532 Aug 14 j 03:38	14°♄01'15 1°00'18	
min. Earth dist.	-9538 Jan 11 j 12:42	13°♄47'56 17.38896 AU	minimum elong	-9532 Aug 14 j 03:37	14°♄01'15 1°00'49	
direct	-9538 Mar 29 j 08:41	11°♄43'57	max. Earth dist.	-9532 Aug 14 j 10:51	14°♄02'22 19.76787 AU	
	-9538 Jun 29 j 03:30	15°♄	morning rise	-9532 Aug 29 j 16:45	14°♄59'02	
evening set	-9538 Jul 02 j 14:23	15°♄12'45	retrograde	-9532 Nov 29 j 19:57	18°♄17'50	
			opposition	-9531 Feb 13 j 21:29	16°♄16'48 1°08'09	
conjunction	-9538 Jul 18 j 10:04	16°♄12'37 0°41'47	min. Earth dist.	-9531 Feb 13 j 12:07	16°♄17'47 17.80183 AU	
minimum elong	-9538 Jul 18 j 10:03	16°♄12'36 0°42'10	direct	-9531 May 01 j 23:35	14°♄14'31	
max. Earth dist.	-9538 Jul 18 j 02:11	16°♄11'21 19.41335 AU	evening set	-9531 Aug 03 j 05:38	17°♄34'28	
morning rise	-9538 Aug 03 j 02:44	17°♄12'02				
retrograde	-9538 Nov 02 j 11:22	20°♄33'53	conjunction	-9531 Aug 18 j 19:19	18°♄32'06 1°02'04	
opposition	-9537 Jan 16 j 07:53	18°♄32'27 0°48'50	minimum elong	-9531 Aug 18 j 19:19	18°♄32'06 1°02'37	
min. Earth dist.	-9537 Jan 16 j 13:44	18°♄31'50 17.43883 AU	max. Earth dist.	-9531 Aug 19 j 06:03	18°♄33'47 19.83612 AU	
direct	-9537 Apr 03 j 13:50	16°♄27'56	morning rise	-9531 Sep 03 j 08:03	19°♄29'37	
evening set	-9537 Jul 07 j 12:46	19°♄55'42	retrograde	-9531 Dec 04 j 13:38	22°♄47'48	
			opposition	-9530 Feb 18 j 21:14	20°♄46'50 1°09'53	
conjunction	-9537 Jul 23 j 07:17	20°♄55'15 0°45'45	min. Earth dist.	-9530 Feb 18 j 10:11	20°♄47'58 17.87148 AU	
minimum elong	-9537 Jul 23 j 07:16	20°♄55'15 0°46'09	direct	-9530 May 06 j 21:39	18°♄44'56	
max. Earth dist.	-9537 Jul 23 j 01:41	20°♄54'22 19.46506 AU	evening set	-9530 Aug 07 j 20:51	22°♄03'27	
morning rise	-9537 Aug 07 j 23:06	21°♄54'25				
retrograde	-9537 Nov 07 j 09:27	25°♄15'52	conjunction	-9530 Aug 23 j 09:57	23°♄00'46 1°03'27	
opposition	-9536 Jan 21 j 11:38	23°♄14'34 0°53'04	minimum elong	-9530 Aug 23 j 09:57	23°♄00'46 1°04'00	
min. Earth dist.	-9536 Jan 21 j 15:54	23°♄14'07 17.49238 AU	max. Earth dist.	-9530 Aug 23 j 22:32	23°♄02'43 19.90704 AU	
direct	-9536 Apr 07 j 15:31	21°♄10'25	morning rise	-9530 Sep 07 j 22:40	23°♄58'02	
evening set	-9536 Jul 11 j 10:13	24°♄37'04	retrograde	-9530 Dec 09 j 08:08	27°♄15'34	
			opposition	-9529 Feb 23 j 20:00	25°♄14'41 1°11'10	
conjunction	-9536 Jul 27 j 03:42	25°♄36'18 0°49'24	min. Earth dist.	-9529 Feb 23 j 05:22	25°♄16'11 17.94361 AU	
minimum elong	-9536 Jul 27 j 03:42	25°♄36'18 0°49'49	direct	-9529 May 11 j 20:01	23°♄13'11	
max. Earth dist.	-9536 Jul 27 j 00:41	25°♄35'50 19.52026 AU	evening set	-9529 Aug 12 j 11:02	26°♄30'17	
morning rise	-9536 Aug 11 j 18:46	26°♄35'12				
retrograde	-9536 Nov 11 j 09:10	29°♄56'12	conjunction	-9529 Aug 27 j 23:51	27°♄27'19 1°04'26	
opposition	-9535 Jan 25 j 14:55	27°♄55'00 0°56'55	minimum elong	-9529 Aug 27 j 23:51	27°♄27'19 1°05'00	
min. Earth dist.	-9535 Jan 25 j 15:46	27°♄54'54 17.54899 AU	max. Earth dist.	-9529 Aug 28 j 15:57	27°♄29'47 19.98016 AU	
direct	-9535 Apr 12 j 19:32	25°♄51'14	morning rise	-9529 Sep 12 j 12:20	28°♄24'18	
evening set	-9535 Jul 16 j 06:32	29°♄16'39		-9529 Oct 11 j 05:22	0°♄	
	-9535 Jul 27 j 20:17	0°♄♄	retrograde	-9529 Dec 14 j 00:31	1°♄41'13	
				-9528 Feb 20 j 18:39	30°♄♄	
conjunction	-9535 Jul 31 j 23:05	0°♄15'35 0°52'41	opposition	-9528 Feb 28 j 18:01	29°♄40'27 1°12'02	
minimum elong	-9535 Jul 31 j 23:05	0°♄15'35 0°53'09	min. Earth dist.	-9528 Feb 28 j 01:40	29°♄42'07 18.01774 AU	
max. Earth dist.	-9535 Jul 31 j 22:48	0°♄15'32 19.57825 AU	direct	-9528 May 15 j 16:06	27°♄39'24	
morning rise	-9535 Aug 16 j 13:29	1°♄14'12		-9528 Jul 31 j 02:50	0°♄	
retrograde	-9535 Nov 16 j 06:05	4°♄34'43	evening set	-9528 Aug 16 j 00:27	0°♄55'05	
opposition	-9534 Jan 30 j 17:46	2°♄33'35 1°00'22				
min. Earth dist.	-9534 Jan 30 j 17:08	2°♄33'39 17.60841 AU	conjunction	-9528 Aug 31 j 12:51	1°♄51'49 1°05'02	
direct	-9534 Apr 17 j 20:00	0°♄30'12	minimum elong	-9528 Aug 31 j 12:51	1°♄51'49 1°05'38	
evening set	-9534 Jul 21 j 01:57	3°♄54'19	max. Earth dist.	-9528 Sep 01 j 06:26	1°♄54'30 20.05520 AU	
			morning rise	-9528 Sep 16 j 01:31	2°♄48'34	
conjunction	-9534 Aug 05 j 17:37	4°♄52'55 0°55'36	retrograde	-9528 Dec 17 j 17:36	6°♄04'51	
minimum elong	-9534 Aug 05 j 17:37	4°♄52'55 0°56'05	opposition	-9527 Mar 04 j 15:11	4°♄04'12 1°12'28	
max. Earth dist.	-9534 Aug 05 j 19:36	4°♄53'14 19.63900 AU	min. Earth dist.	-9527 Mar 03 j 19:42	4°♄06'12 18.09350 AU	
morning rise	-9534 Aug 21 j 07:33	5°♄51'16	direct	-9527 May 20 j 11:31	2°♄03'36	
retrograde	-9534 Nov 21 j 04:14	9°♄11'14	evening set	-9527 Aug 20 j 12:47	5°♄17'54	
opposition	-9533 Feb 04 j 19:34	7°♄10'09 1°03'24				
min. Earth dist.	-9533 Feb 04 j 15:26	7°♄10'34 17.67036 AU	conjunction	-9527 Sep 05 j 01:09	6°♄14'20 1°05'16	
direct	-9533 Apr 22 j 22:53	5°♄07'07	minimum elong	-9527 Sep 05 j 01:09	6°♄14'20 1°05'50	
evening set	-9533 Jul 25 j 20:15	8°♄29'54	max. Earth dist.	-9527 Sep 05 j 22:06	6°♄17'32 20.13135 AU	
			morning rise	-9527 Sep 20 j 13:49	7°♄10'51	
conjunction	-9533 Aug 10 j 11:13	9°♄28'11 0°58'08	retrograde	-9527 Dec 22 j 09:04	10°♄26'31	
minimum elong	-9533 Aug 10 j 11:13	9°♄28'11 0°58'40	opposition	-9526 Mar 09 j 11:34	8°♄26'02 1°12'28	
max. Earth dist.	-9533 Aug 10 j 16:17	9°♄28'58 19.70214 AU	min. Earth dist.	-9526 Mar 08 j 14:34	8°♄28'10 18.16992 AU	
morning rise	-9533 Aug 26 j 00:36	10°♄26'15	direct	-9526 May 25 j 05:32	6°♄25'54	
retrograde	-9533 Nov 25 j 23:40	13°♄45'38	evening set	-9526 Aug 25 j 00:35	9°♄38'48	
opposition	-9532 Feb 09 j 20:58	11°♄44'35 1°05'59				
min. Earth dist.	-9532 Feb 09 j 15:20	11°♄45'10 17.73481 AU	conjunction	-9526 Sep 09 j 12:42	10°♄34'58 1°05'06	

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Attention, astronomical year style is used: The year -9526 in astronomical counting style is the year 9527 BCE in historical counting style.

minimum elong	-9526 Sep 09 j 12:42	10° $\mathring{\text{E}}$ 34'58	1°05'41	min. Earth dist.	-9519 Apr 08 j 02:45	8° $\mathring{\text{N}}$ 09'29	18.66380 AU
max. Earth dist.	-9526 Sep 10 j 10:38	10° $\mathring{\text{E}}$ 38'18	20.20785 AU	opposition	-9519 Apr 09 j 08:59	8° $\mathring{\text{N}}$ 06'26	1°01'35
morning rise	-9526 Sep 25 j 01:45	11° $\mathring{\text{E}}$ 31'15		direct	-9519 Jun 24 j 09:53	6° $\mathring{\text{N}}$ 08'47	
retrograde	-9526 Dec 27 j 01:04	14° $\mathring{\text{E}}$ 46'17		evening set	-9519 Sep 22 j 14:12	9° $\mathring{\text{N}}$ 12'50	
min. Earth dist.	-9525 Mar 13 j 07:30	12° $\mathring{\text{E}}$ 48'19	18.24634 AU				
opposition	-9525 Mar 14 j 06:50	12° $\mathring{\text{E}}$ 45'57	1°12'03	conjunction	-9519 Oct 08 j 04:20	10° $\mathring{\text{N}}$ 07'30	0°54'21
direct	-9525 May 29 j 22:37	10° $\mathring{\text{E}}$ 46'14		minimum elong	-9519 Oct 08 j 04:20	10° $\mathring{\text{N}}$ 07'30	0°54'50
evening set	-9525 Aug 29 j 11:28	13° $\mathring{\text{E}}$ 57'48		max. Earth dist.	-9519 Oct 09 j 12:40	10° $\mathring{\text{N}}$ 12'16	20.69340 AU
				morning rise	-9519 Oct 23 j 21:02	11° $\mathring{\text{N}}$ 02'34	
conjunction	-9525 Sep 13 j 23:43	14° $\mathring{\text{E}}$ 53'43	1°04'35	retrograde	-9518 Jan 25 j 19:06	14° $\mathring{\text{N}}$ 13'15	
minimum elong	-9525 Sep 13 j 23:43	14° $\mathring{\text{E}}$ 53'43	1°05'08	opposition	-9518 Apr 13 j 22:01	12° $\mathring{\text{N}}$ 13'25	0°58'42
max. Earth dist.	-9525 Sep 15 j 00:35	14° $\mathring{\text{E}}$ 57'29	20.28381 AU	min. Earth dist.	-9518 Apr 12 j 14:43	12° $\mathring{\text{N}}$ 16'34	18.72346 AU
morning rise	-9525 Sep 29 j 12:53	15° $\mathring{\text{E}}$ 49'47		direct	-9518 Jun 28 j 21:56	10° $\mathring{\text{N}}$ 16'00	
retrograde	-9525 Dec 31 j 15:18	19° $\mathring{\text{E}}$ 04'11		evening set	-9518 Sep 26 j 20:30	13° $\mathring{\text{N}}$ 18'58	
min. Earth dist.	-9524 Mar 17 j 00:52	17° $\mathring{\text{E}}$ 06'30	18.32176 AU				
opposition	-9524 Mar 18 j 01:29	17° $\mathring{\text{E}}$ 04'00	1°11'14	conjunction	-9518 Oct 12 j 11:01	14° $\mathring{\text{N}}$ 13'29	0°51'38
direct	-9524 Jun 02 j 14:46	15° $\mathring{\text{E}}$ 04'44		minimum elong	-9518 Oct 12 j 11:01	14° $\mathring{\text{N}}$ 13'29	0°52'05
evening set	-9524 Sep 01 j 21:40	18° $\mathring{\text{E}}$ 14'57		max. Earth dist.	-9518 Oct 13 j 19:14	14° $\mathring{\text{N}}$ 18'13	20.75173 AU
					-9518 Oct 25 j 17:57	15° $\mathring{\text{N}}$	
conjunction	-9524 Sep 17 j 09:51	19° $\mathring{\text{E}}$ 10'37	1°03'41	morning rise	-9518 Oct 28 j 04:40	15° $\mathring{\text{N}}$ 08'26	
minimum elong	-9524 Sep 17 j 09:51	19° $\mathring{\text{E}}$ 10'37	1°04'15	retrograde	-9517 Jan 30 j 05:20	18° $\mathring{\text{N}}$ 18'33	
max. Earth dist.	-9524 Sep 18 j 11:17	19° $\mathring{\text{E}}$ 14'27	20.35851 AU	min. Earth dist.	-9517 Apr 17 j 02:28	16° $\mathring{\text{N}}$ 21'55	18.78062 AU
morning rise	-9524 Oct 02 j 23:34	20° $\mathring{\text{E}}$ 06'29		opposition	-9517 Apr 18 j 10:08	16° $\mathring{\text{N}}$ 18'44	0°55'32
retrograde	-9523 Jan 04 j 06:17	23° $\mathring{\text{E}}$ 20'17			-9517 May 24 j 04:39	15° $\mathring{\text{R}}$	
opposition	-9523 Mar 22 j 19:17	21° $\mathring{\text{E}}$ 20'12	1°10'01	direct	-9517 Jul 03 j 06:32	14° $\mathring{\text{N}}$ 21'32	
min. Earth dist.	-9523 Mar 21 j 16:57	21° $\mathring{\text{E}}$ 22'52	18.39565 AU		-9517 Aug 11 j 03:40	15° $\mathring{\text{N}}$	
direct	-9523 Jun 07 j 06:05	19° $\mathring{\text{E}}$ 21'19		evening set	-9517 Oct 01 j 02:06	17° $\mathring{\text{N}}$ 23'29	
evening set	-9523 Sep 06 j 07:09	22° $\mathring{\text{E}}$ 30'14					
				conjunction	-9517 Oct 16 j 17:25	18° $\mathring{\text{N}}$ 17'52	0°48'41
conjunction	-9523 Sep 21 j 19:40	23° $\mathring{\text{E}}$ 25'41	1°02'27	minimum elong	-9517 Oct 16 j 17:26	18° $\mathring{\text{N}}$ 17'52	0°49'06
minimum elong	-9523 Sep 21 j 19:41	23° $\mathring{\text{E}}$ 25'41	1°03'00	max. Earth dist.	-9517 Oct 18 j 03:36	18° $\mathring{\text{N}}$ 22'52	20.80760 AU
max. Earth dist.	-9523 Sep 22 j 23:37	23° $\mathring{\text{E}}$ 29'52	20.43119 AU	morning rise	-9517 Nov 01 j 11:45	19° $\mathring{\text{N}}$ 12'43	
morning rise	-9523 Oct 07 j 09:42	24° $\mathring{\text{E}}$ 21'22		retrograde	-9516 Feb 03 j 15:18	22° $\mathring{\text{N}}$ 22'17	
retrograde	-9522 Jan 08 j 19:19	27° $\mathring{\text{E}}$ 34'31		opposition	-9516 Apr 21 j 21:29	20° $\mathring{\text{N}}$ 22'30	0°52'07
min. Earth dist.	-9522 Mar 26 j 08:37	25° $\mathring{\text{E}}$ 37'19	18.46707 AU	min. Earth dist.	-9516 Apr 20 j 12:39	20° $\mathring{\text{N}}$ 25'48	18.83523 AU
opposition	-9522 Mar 27 j 12:01	25° $\mathring{\text{E}}$ 34'33	1°08'26	direct	-9516 Jul 06 j 17:04	18° $\mathring{\text{N}}$ 25'33	
direct	-9522 Jun 11 j 20:36	23° $\mathring{\text{E}}$ 36'02		evening set	-9516 Oct 04 j 07:20	21° $\mathring{\text{N}}$ 26'33	
evening set	-9522 Sep 10 j 16:04	26° $\mathring{\text{E}}$ 43'41					
				conjunction	-9516 Oct 19 j 23:12	22° $\mathring{\text{N}}$ 20'50	0°45'30
conjunction	-9522 Sep 26 j 04:43	27° $\mathring{\text{E}}$ 38'54	1°00'53	minimum elong	-9516 Oct 19 j 23:12	22° $\mathring{\text{N}}$ 20'50	0°45'54
minimum elong	-9522 Sep 26 j 04:43	27° $\mathring{\text{E}}$ 38'54	1°01'25	max. Earth dist.	-9516 Oct 21 j 09:05	22° $\mathring{\text{N}}$ 25'46	20.86099 AU
max. Earth dist.	-9522 Sep 27 j 08:43	27° $\mathring{\text{E}}$ 43'05	20.50125 AU	morning rise	-9516 Nov 04 j 18:38	23° $\mathring{\text{N}}$ 15'35	
morning rise	-9522 Oct 11 j 19:29	28° $\mathring{\text{E}}$ 34'24		retrograde	-9515 Feb 07 j 01:06	26° $\mathring{\text{N}}$ 24'41	
	-9522 Nov 07 j 02:02	0° $\mathring{\text{N}}$		min. Earth dist.	-9515 Apr 24 j 23:19	24° $\mathring{\text{N}}$ 28'15	18.88738 AU
retrograde	-9521 Jan 13 j 08:37	1° $\mathring{\text{N}}$ 46'56		opposition	-9515 Apr 26 j 08:11	24° $\mathring{\text{N}}$ 24'57	0°48'28
	-9521 Mar 26 j 18:55	30° $\mathring{\text{R}}$		direct	-9515 Jul 11 j 00:05	22° $\mathring{\text{N}}$ 28'12	
min. Earth dist.	-9521 Mar 30 j 23:28	29° $\mathring{\text{E}}$ 49'54	18.53574 AU	evening set	-9515 Oct 08 j 12:11	25° $\mathring{\text{N}}$ 28'22	
opposition	-9521 Apr 01 j 03:57	29° $\mathring{\text{E}}$ 47'02	1°06'29				
direct	-9521 Jun 16 j 09:44	27° $\mathring{\text{E}}$ 48'50		conjunction	-9515 Oct 24 j 05:00	26° $\mathring{\text{N}}$ 22'33	0°42'07
	-9521 Aug 29 j 12:05	0° $\mathring{\text{N}}$		minimum elong	-9515 Oct 24 j 05:00	26° $\mathring{\text{N}}$ 22'33	0°42'29
evening set	-9521 Sep 15 j 00:03	0° $\mathring{\text{N}}$ 55'14		max. Earth dist.	-9515 Oct 25 j 16:28	26° $\mathring{\text{N}}$ 27'42	20.91172 AU
				morning rise	-9515 Nov 09 j 01:13	27° $\mathring{\text{N}}$ 17'14	
conjunction	-9521 Sep 30 j 13:12	1° $\mathring{\text{N}}$ 50'16	0°58'59		-9514 Jan 09 j 14:52	0° $\mathring{\text{N}}$	
minimum elong	-9521 Sep 30 j 13:12	1° $\mathring{\text{N}}$ 50'16	0°59'31	retrograde	-9514 Feb 11 j 10:02	0° $\mathring{\text{N}}$ 25'52	
max. Earth dist.	-9521 Oct 01 j 19:25	1° $\mathring{\text{N}}$ 54'46	20.56830 AU		-9514 Mar 16 j 20:13	30° $\mathring{\text{R}}$	
morning rise	-9521 Oct 16 j 04:24	2° $\mathring{\text{N}}$ 45'37		min. Earth dist.	-9514 Apr 29 j 08:09	28° $\mathring{\text{N}}$ 29'35	18.93655 AU
retrograde	-9520 Jan 17 j 20:31	5° $\mathring{\text{N}}$ 57'31		opposition	-9514 Apr 30 j 17:51	28° $\mathring{\text{N}}$ 26'13	0°44'35
opposition	-9520 Apr 04 j 18:54	3° $\mathring{\text{N}}$ 57'40	1°04'11	direct	-9514 Jul 15 j 09:03	26° $\mathring{\text{N}}$ 29'43	
min. Earth dist.	-9520 Apr 03 j 13:21	4° $\mathring{\text{N}}$ 00'38	18.60120 AU	evening set	-9514 Oct 12 j 16:54	29° $\mathring{\text{N}}$ 29'06	
direct	-9520 Jun 19 j 23:08	1° $\mathring{\text{N}}$ 59'45			-9514 Oct 21 j 17:35	0° $\mathring{\text{N}}$	
evening set	-9520 Sep 18 j 07:32	5° $\mathring{\text{N}}$ 04'57					
				conjunction	-9514 Oct 28 j 10:22	0° $\mathring{\text{N}}$ 23'12	0°38'32
conjunction	-9520 Oct 03 j 20:58	5° $\mathring{\text{N}}$ 59'48	0°56'48	minimum elong	-9514 Oct 28 j 10:22	0° $\mathring{\text{N}}$ 23'12	0°38'53
minimum elong	-9520 Oct 03 j 20:58	5° $\mathring{\text{N}}$ 59'48	0°57'18	max. Earth dist.	-9514 Oct 29 j 21:06	0° $\mathring{\text{N}}$ 28'13	20.95934 AU
max. Earth dist.	-9520 Oct 05 j 03:11	6° $\mathring{\text{N}}$ 04'16	20.63230 AU	morning rise	-9514 Nov 13 j 07:44	1° $\mathring{\text{N}}$ 17'50	
morning rise	-9520 Oct 19 j 13:03	6° $\mathring{\text{N}}$ 55'00		retrograde	-9513 Feb 15 j 19:29	4° $\mathring{\text{N}}$ 26'04	
retrograde	-9519 Jan 21 j 08:09	10° $\mathring{\text{N}}$ 06'17		min. Earth dist.	-9513 May 03 j 17:56	2° $\mathring{\text{N}}$ 29'48	18.98251 AU

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Attention, astronomical year style is used: The year -9513 in astronomical counting style is the year 9514 BCE in historical counting style.

opposition	-9513 May 05 j 03:08	2° \mathring{M} 26'29	0°40'31	minimum elong	-9507 Nov 24 j 23:24	28° \mathring{M} 07'54	0°09'44
direct	-9513 Jul 19 j 14:46	0° \mathring{M} 30'12		behind sun begin	-9507 Nov 24 j 17:57	28° \mathring{M} 07'09	
evening set	-9513 Oct 16 j 21:06	3° \mathring{M} 28'53		behind sun end	-9507 Nov 25 j 04:50	28° \mathring{M} 08'39	
				max. Earth dist.	-9507 Nov 26 j 07:04	28° \mathring{M} 12'23	21.16333 AU
conjunction	-9513 Nov 01 j 15:35	4° \mathring{M} 22'56	0°34'47	morning rise	-9507 Dec 11 j 04:01	29° \mathring{M} 02'34	
minimum elong	-9513 Nov 01 j 15:35	4° \mathring{M} 22'56	0°35'05		-9507 Dec 29 j 05:26	0° \mathring{A}	
max. Earth dist.	-9513 Nov 03 j 03:33	4° \mathring{M} 28'07	21.00344 AU	retrograde	-9506 Mar 16 j 01:29	2° \mathring{A} 08'50	
morning rise	-9513 Nov 17 j 13:47	5° \mathring{M} 17'32		min. Earth dist.	-9506 Jun 01 j 00:27	0° \mathring{A} 12'16	19.16775 AU
retrograde	-9512 Feb 20 j 03:33	8° \mathring{M} 25'23		opposition	-9506 Jun 02 j 04:48	0° \mathring{A} 09'25	0°08'05
min. Earth dist.	-9512 May 07 j 01:59	6° \mathring{M} 29'17	19.02455 AU		-9506 Jun 06 j 02:35	30° \mathring{R} \mathring{M}	
opposition	-9512 May 08 j 11:44	6° \mathring{M} 25'54	0°36'15	direct	-9506 Aug 16 j 04:56	28° \mathring{M} 13'44	
direct	-9512 Jul 22 j 22:17	4° \mathring{M} 29'50			-9506 Oct 21 j 21:52	0° \mathring{A}	
evening set	-9512 Oct 20 j 01:31	7° \mathring{M} 27'54		evening set	-9506 Nov 13 j 03:33	1° \mathring{A} 09'34	
conjunction	-9512 Nov 04 j 20:44	8° \mathring{M} 21'54	0°30'52	conjunction	-9506 Nov 29 j 04:48	2° \mathring{A} 03'40	0°05'13
minimum elong	-9512 Nov 04 j 20:44	8° \mathring{M} 21'54	0°31'09	minimum elong	-9506 Nov 29 j 04:47	2° \mathring{A} 03'40	0°05'15
max. Earth dist.	-9512 Nov 06 j 07:33	8° \mathring{M} 26'54	21.04341 AU	behind sun begin	-9506 Nov 28 j 22:22	2° \mathring{A} 02'47	
morning rise	-9512 Nov 20 j 20:09	9° \mathring{M} 16'28		behind sun end	-9506 Nov 29 j 11:13	2° \mathring{A} 04'33	
retrograde	-9511 Feb 23 j 12:09	12° \mathring{M} 24'00		max. Earth dist.	-9506 Nov 30 j 10:17	2° \mathring{A} 07'51	21.17005 AU
min. Earth dist.	-9511 May 11 j 11:12	10° \mathring{M} 27'51	19.06230 AU	morning rise	-9506 Dec 15 j 10:39	2° \mathring{A} 58'24	
opposition	-9511 May 12 j 19:50	10° \mathring{M} 24'35	0°31'50	retrograde	-9505 Mar 20 j 07:16	6° \mathring{A} 04'31	
direct	-9511 Jul 27 j 03:19	8° \mathring{M} 28'41		min. Earth dist.	-9505 Jun 05 j 07:54	4° \mathring{A} 07'41	19.17193 AU
evening set	-9511 Oct 24 j 05:44	11° \mathring{M} 26'12		opposition	-9505 Jun 06 j 10:13	4° \mathring{A} 05'02	0°03'10
				direct	-9505 Aug 20 j 07:47	2° \mathring{A} 09'15	
conjunction	-9511 Nov 09 j 02:04	12° \mathring{M} 20'12	0°26'48	evening set	-9505 Nov 17 j 07:51	5° \mathring{A} 04'58	
minimum elong	-9511 Nov 09 j 02:04	12° \mathring{M} 20'12	0°27'02				
max. Earth dist.	-9511 Nov 10 j 13:30	12° \mathring{M} 25'16	21.07871 AU	conjunction	-9505 Dec 03 j 10:20	5° \mathring{A} 59'09	0°00'44
morning rise	-9511 Nov 25 j 02:22	13° \mathring{M} 14'45		minimum elong	-9505 Dec 03 j 10:20	5° \mathring{A} 59'09	0°00'45
retrograde	-9510 Feb 27 j 20:08	16° \mathring{M} 21'58		behind sun begin	-9505 Dec 03 j 03:42	5° \mathring{A} 58'14	
min. Earth dist.	-9510 May 15 j 18:39	14° \mathring{M} 25'54	19.09492 AU	behind sun end	-9505 Dec 03 j 16:58	6° \mathring{A} 00'03	
opposition	-9510 May 17 j 03:18	14° \mathring{M} 22'37	0°27'16	max. Earth dist.	-9505 Dec 04 j 15:45	6° \mathring{A} 03'18	21.17182 AU
direct	-9510 Jul 31 j 09:34	12° \mathring{M} 26'52		morning rise	-9505 Dec 19 j 17:06	6° \mathring{A} 53'57	
evening set	-9510 Oct 28 j 10:07	15° \mathring{M} 23'55		desc. node	-9504 Feb 01 j 05:24	8° \mathring{A} 59'00	
				retrograde	-9504 Mar 23 j 14:43	9° \mathring{A} 59'57	
conjunction	-9510 Nov 13 j 07:12	16° \mathring{M} 17'53	0°22'38	opposition	-9504 Jun 09 j 15:10	8° \mathring{A} 00'23	-0°01'45
minimum elong	-9510 Nov 13 j 07:12	16° \mathring{M} 17'53	0°22'50	min. Earth dist.	-9504 Jun 08 j 13:11	8° \mathring{A} 03'01	19.17128 AU
max. Earth dist.	-9510 Nov 14 j 16:56	16° \mathring{M} 22'42	21.10860 AU	direct	-9504 Aug 23 j 12:52	6° \mathring{A} 04'31	
morning rise	-9510 Nov 29 j 08:43	17° \mathring{M} 12'28		evening set	-9504 Nov 20 j 12:44	9° \mathring{A} 00'13	
retrograde	-9509 Mar 04 j 03:22	20° \mathring{M} 19'25					
min. Earth dist.	-9509 May 20 j 03:23	18° \mathring{M} 23'12	19.12203 AU	conjunction	-9504 Dec 06 j 16:06	9° \mathring{A} 54'29	-0°03'49
opposition	-9509 May 21 j 10:24	18° \mathring{M} 20'05	0°22'35	minimum elong	-9504 Dec 06 j 16:07	9° \mathring{A} 54'29	0°03'52
direct	-9509 Aug 04 j 14:06	16° \mathring{M} 24'25		behind sun begin	-9504 Dec 06 j 09:32	9° \mathring{A} 53'35	
evening set	-9509 Nov 01 j 14:20	19° \mathring{M} 21'04		behind sun end	-9504 Dec 06 j 22:42	9° \mathring{A} 55'23	
				max. Earth dist.	-9504 Dec 07 j 19:16	9° \mathring{A} 58'19	21.16897 AU
conjunction	-9509 Nov 17 j 12:36	20° \mathring{M} 15'03	0°18'22	morning rise	-9504 Dec 23 j 00:05	10° \mathring{A} 49'23	
minimum elong	-9509 Nov 17 j 12:36	20° \mathring{M} 15'03	0°18'32	retrograde	-9503 Mar 27 j 20:47	13° \mathring{A} 55'20	
max. Earth dist.	-9509 Nov 18 j 22:28	20° \mathring{M} 19'53	21.13281 AU	opposition	-9503 Jun 13 j 19:53	11° \mathring{A} 55'42	-0°06'40
morning rise	-9509 Dec 03 j 15:00	21° \mathring{M} 09'38		min. Earth dist.	-9503 Jun 12 j 20:01	11° \mathring{A} 58'06	19.16634 AU
retrograde	-9508 Mar 07 j 11:28	24° \mathring{M} 16'20		direct	-9503 Aug 27 j 15:13	9° \mathring{A} 59'43	
min. Earth dist.	-9508 May 23 j 10:13	22° \mathring{M} 20'06	19.14317 AU	evening set	-9503 Nov 24 j 17:43	12° \mathring{A} 55'29	
opposition	-9508 May 24 j 16:58	22° \mathring{M} 17'01	0°17'49				
direct	-9508 Aug 07 j 19:47	20° \mathring{M} 21'24		conjunction	-9503 Dec 10 j 22:19	13° \mathring{A} 49'53	-0°08'14
evening set	-9508 Nov 04 j 18:41	23° \mathring{M} 17'42		minimum elong	-9503 Dec 10 j 22:20	13° \mathring{A} 49'53	0°08'18
				behind sun begin	-9503 Dec 10 j 16:28	13° \mathring{A} 49'04	
conjunction	-9508 Nov 20 j 17:50	24° \mathring{M} 11'43	0°14'01	behind sun end	-9503 Dec 11 j 04:12	13° \mathring{A} 50'41	
minimum elong	-9508 Nov 20 j 17:50	24° \mathring{M} 11'43	0°14'09	max. Earth dist.	-9503 Dec 12 j 01:08	13° \mathring{A} 53'39	21.16196 AU
behind sun begin	-9508 Nov 20 j 14:36	24° \mathring{M} 11'16		morning rise	-9503 Dec 27 j 07:10	14° \mathring{A} 44'52	
behind sun end	-9508 Nov 20 j 21:04	24° \mathring{M} 12'09		retrograde	-9502 Apr 01 j 04:14	17° \mathring{A} 50'48	
max. Earth dist.	-9508 Nov 22 j 01:38	24° \mathring{M} 16'14	21.15101 AU	min. Earth dist.	-9502 Jun 17 j 00:54	15° \mathring{A} 53'31	19.15719 AU
morning rise	-9508 Dec 06 j 21:32	25° \mathring{M} 06'20		opposition	-9502 Jun 18 j 00:19	15° \mathring{A} 51'08	-0°11'33
retrograde	-9507 Mar 11 j 17:45	28° \mathring{M} 12'49		direct	-9502 Aug 31 j 19:47	13° \mathring{A} 55'03	
opposition	-9507 May 28 j 23:16	26° \mathring{M} 13'27	0°12'59	evening set	-9502 Nov 28 j 23:06	16° \mathring{A} 51'00	
min. Earth dist.	-9507 May 27 j 18:29	26° \mathring{M} 16'21	19.15838 AU				
direct	-9507 Aug 11 j 23:33	24° \mathring{M} 17'49		conjunction	-9502 Dec 15 j 04:35	17° \mathring{A} 45'31	-0°12'37
evening set	-9507 Nov 08 j 23:01	27° \mathring{M} 13'51		minimum elong	-9502 Dec 15 j 04:35	17° \mathring{A} 45'30	0°12'44
				behind sun begin	-9502 Dec 15 j 00:26	17° \mathring{A} 44'56	
conjunction	-9507 Nov 24 j 23:24	28° \mathring{M} 07'54	0°09'38	behind sun end	-9502 Dec 15 j 08:43	17° \mathring{A} 46'05	

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Attention, astronomical year style is used: The year -9502 in astronomical counting style is the year 9503 BCE in historical counting style.

max. Earth dist.	-9502 Dec 16 j 04:58	17° <u>♁</u> 48'57	21.15080 AU			-9495 Jun 08 j 15:48	15° <u>♁</u>	
morning rise	-9502 Dec 31 j 14:32	18° <u>♁</u> 40'38		opposition		-9495 Jul 15 j 08:37	13° <u>♁</u> 37'56	-0°43'21
retrograde	-9501 Apr 05 j 10:48	21° <u>♁</u> 46'38		min. Earth dist.		-9495 Jul 14 j 23:21	13° <u>♁</u> 38'53	18.97130 AU
min. Earth dist.	-9501 Jun 21 j 07:38	19° <u>♁</u> 49'04	19.14407 AU	direct		-9495 Sep 27 j 21:53	11° <u>♁</u> 40'41	
opposition	-9501 Jun 22 j 04:50	19° <u>♁</u> 46'55	-0°16'23	evening set		-9495 Dec 27 j 04:16	14° <u>♁</u> 40'13	
direct	-9501 Sep 04 j 22:02	17° <u>♁</u> 50'44				-9494 Jan 02 j 02:13	15° <u>♁</u>	
evening set	-9501 Dec 03 j 04:46	20° <u>♁</u> 46'56						
				conjunction		-9494 Jan 12 j 16:55	15° <u>♁</u> 36'02	-0°40'58
conjunction	-9501 Dec 19 j 11:29	21° <u>♁</u> 41'36	-0°16'58	minimum elong		-9494 Jan 12 j 16:55	15° <u>♁</u> 36'02	0°41'19
minimum elong	-9501 Dec 19 j 11:29	21° <u>♁</u> 41'36	0°17'07	max. Earth dist.		-9494 Jan 13 j 03:06	15° <u>♁</u> 37'29	20.94846 AU
max. Earth dist.	-9501 Dec 20 j 11:20	21° <u>♁</u> 44'58	21.13574 AU	morning rise		-9494 Jan 29 j 08:43	16° <u>♁</u> 32'19	
morning rise	-9500 Jan 04 j 22:16	22° <u>♁</u> 36'50		retrograde		-9494 May 03 j 22:27	19° <u>♁</u> 39'53	
retrograde	-9500 Apr 08 j 18:36	25° <u>♁</u> 42'57		opposition		-9494 Jul 19 j 13:55	17° <u>♁</u> 39'59	-0°47'18
opposition	-9500 Jun 25 j 09:07	23° <u>♁</u> 43'15	-0°21'09	min. Earth dist.		-9494 Jul 19 j 06:01	17° <u>♁</u> 40'48	18.92449 AU
min. Earth dist.	-9500 Jun 24 j 12:34	23° <u>♁</u> 45'20	19.12689 AU	direct		-9494 Oct 02 j 03:56	15° <u>♁</u> 42'25	
direct	-9500 Sep 08 j 02:21	21° <u>♁</u> 46'57		evening set		-9494 Dec 31 j 14:29	18° <u>♁</u> 42'44	
evening set	-9500 Dec 06 j 11:08	24° <u>♁</u> 43'30						
				conjunction		-9493 Jan 17 j 03:52	19° <u>♁</u> 38'46	-0°44'25
conjunction	-9500 Dec 22 j 18:45	25° <u>♁</u> 38'19	-0°21'15	minimum elong		-9493 Jan 17 j 03:52	19° <u>♁</u> 38'46	0°44'49
minimum elong	-9500 Dec 22 j 18:45	25° <u>♁</u> 38'19	0°21'25	max. Earth dist.		-9493 Jan 17 j 10:29	19° <u>♁</u> 39'43	20.89915 AU
max. Earth dist.	-9500 Dec 23 j 15:53	25° <u>♁</u> 41'18	21.11652 AU	morning rise		-9493 Feb 02 j 20:26	20° <u>♁</u> 35'16	
morning rise	-9499 Jan 08 j 06:39	26° <u>♁</u> 33'43		retrograde		-9493 May 08 j 07:35	23° <u>♁</u> 43'10	
retrograde	-9499 Apr 13 j 01:49	29° <u>♁</u> 39'59		opposition		-9493 Jul 23 j 19:37	21° <u>♁</u> 43'08	-0°51'01
opposition	-9499 Jun 29 j 13:38	27° <u>♁</u> 40'16	-0°25'51	min. Earth dist.		-9493 Jul 23 j 14:57	21° <u>♁</u> 43'37	18.87287 AU
min. Earth dist.	-9499 Jun 28 j 19:44	27° <u>♁</u> 42'06	19.10552 AU	direct		-9493 Oct 06 j 09:10	19° <u>♁</u> 45'11	
direct	-9499 Sep 12 j 04:45	25° <u>♁</u> 43'51		evening set		-9492 Jan 05 j 01:21	22° <u>♁</u> 46'20	
evening set	-9499 Dec 10 j 17:59	28° <u>♁</u> 40'52						
				conjunction		-9492 Jan 21 j 15:45	23° <u>♁</u> 42'38	-0°47'40
conjunction	-9499 Dec 27 j 02:47	29° <u>♁</u> 35'51	-0°25'26	minimum elong		-9492 Jan 21 j 15:44	23° <u>♁</u> 42'38	0°48'05
minimum elong	-9499 Dec 27 j 02:46	29° <u>♁</u> 35'51	0°25'41	max. Earth dist.		-9492 Jan 21 j 20:33	23° <u>♁</u> 43'19	20.84540 AU
max. Earth dist.	-9499 Dec 27 j 22:56	29° <u>♁</u> 38'42	21.09294 AU	morning rise		-9492 Feb 07 j 08:49	24° <u>♁</u> 39'20	
	-9498 Jan 03 j 05:59	0° <u>♁</u>		retrograde		-9492 May 11 j 18:26	27° <u>♁</u> 47'35	
morning rise	-9498 Jan 12 j 15:24	0° <u>♁</u> 31'24		opposition		-9492 Jul 27 j 01:19	25° <u>♁</u> 47'24	-0°54'30
retrograde	-9498 Apr 17 j 10:25	3° <u>♁</u> 37'51		min. Earth dist.		-9492 Jul 26 j 21:58	25° <u>♁</u> 47'45	18.81704 AU
opposition	-9498 Jul 03 j 17:57	1° <u>♁</u> 38'10	-0°30'26	direct		-9492 Oct 09 j 16:15	23° <u>♁</u> 49'03	
min. Earth dist.	-9498 Jul 03 j 01:05	1° <u>♁</u> 39'53	19.07954 AU	evening set		-9491 Jan 08 j 13:09	26° <u>♁</u> 51'07	
	-9498 Aug 20 j 07:34	30° <u>♁</u>						
direct	-9498 Sep 16 j 09:32	29° <u>♁</u> 41'36		conjunction		-9491 Jan 25 j 04:14	27° <u>♁</u> 47'39	-0°50'41
	-9498 Oct 13 j 01:37	0° <u>♁</u>		minimum elong		-9491 Jan 25 j 04:13	27° <u>♁</u> 47'39	0°51'09
evening set	-9498 Dec 15 j 01:36	2° <u>♁</u> 39'08		max. Earth dist.		-9491 Jan 25 j 05:35	27° <u>♁</u> 47'51	20.78769 AU
				morning rise		-9491 Feb 10 j 21:57	28° <u>♁</u> 44'35	
conjunction	-9498 Dec 31 j 11:13	3° <u>♁</u> 34'19	-0°29'32			-9491 Mar 06 j 19:42	0° <u>♁</u>	
minimum elong	-9498 Dec 31 j 11:13	3° <u>♁</u> 34'19	0°29'47	retrograde		-9491 May 16 j 04:14	1° <u>♁</u> 53'13	
max. Earth dist.	-9497 Jan 01 j 04:15	3° <u>♁</u> 36'43	21.06461 AU			-9491 Jul 28 j 11:16	30° <u>♁</u>	
morning rise	-9497 Jan 17 j 00:50	4° <u>♁</u> 30'02		opposition		-9491 Jul 31 j 07:38	29° <u>♁</u> 52'52	-0°57'43
retrograde	-9497 Apr 21 j 18:07	7° <u>♁</u> 36'45		min. Earth dist.		-9491 Jul 31 j 07:27	29° <u>♁</u> 52'53	18.75769 AU
opposition	-9497 Jul 07 j 22:42	5° <u>♁</u> 37'02	-0°34'54	direct		-9491 Oct 13 j 22:09	27° <u>♁</u> 54'06	
min. Earth dist.	-9497 Jul 07 j 08:49	5° <u>♁</u> 38'28	19.04878 AU			-9491 Dec 26 j 07:04	0° <u>♁</u>	
direct	-9497 Sep 20 j 12:23	3° <u>♁</u> 40'17		evening set		-9490 Jan 13 j 01:30	0° <u>♁</u> 57'08	
evening set	-9497 Dec 19 j 09:37	6° <u>♁</u> 38'26						
				conjunction		-9490 Jan 29 j 17:26	1° <u>♁</u> 53'57	-0°53'28
conjunction	-9496 Jan 04 j 20:23	7° <u>♁</u> 33'49	-0°33'30	minimum elong		-9490 Jan 29 j 17:25	1° <u>♁</u> 53'57	0°53'56
minimum elong	-9496 Jan 04 j 20:23	7° <u>♁</u> 33'49	0°33'48	max. Earth dist.		-9490 Jan 29 j 17:01	1° <u>♁</u> 53'53	20.72683 AU
max. Earth dist.	-9496 Jan 05 j 12:01	7° <u>♁</u> 36'01	21.03131 AU	morning rise		-9490 Feb 15 j 11:31	2° <u>♁</u> 51'06	
morning rise	-9496 Jan 21 j 10:42	8° <u>♁</u> 29'43		retrograde		-9490 May 20 j 16:20	6° <u>♁</u> 00'09	
retrograde	-9496 Apr 25 j 03:48	11° <u>♁</u> 36'41		opposition		-9490 Aug 04 j 14:08	3° <u>♁</u> 59'39	-1°00'40
opposition	-9496 Jul 11 j 03:31	9° <u>♁</u> 36'57	-0°39'13	min. Earth dist.		-9490 Aug 04 j 15:03	3° <u>♁</u> 59'34	18.69546 AU
min. Earth dist.	-9496 Jul 10 j 14:57	9° <u>♁</u> 38'14	19.01274 AU	direct		-9490 Oct 18 j 06:43	2° <u>♁</u> 00'28	
direct	-9496 Sep 23 j 17:50	7° <u>♁</u> 39'59		evening set		-9489 Jan 17 j 14:46	5° <u>♁</u> 04'33	
evening set	-9496 Dec 22 j 18:41	10° <u>♁</u> 38'47						
				conjunction		-9489 Feb 03 j 07:15	6° <u>♁</u> 01'38	-0°55'59
conjunction	-9495 Jan 08 j 06:16	11° <u>♁</u> 34'23	-0°37'19	minimum elong		-9489 Feb 03 j 07:15	6° <u>♁</u> 01'37	0°56'29
minimum elong	-9495 Jan 08 j 06:15	11° <u>♁</u> 34'23	0°37'38	max. Earth dist.		-9489 Feb 03 j 03:43	6° <u>♁</u> 01'07	20.66335 AU
max. Earth dist.	-9495 Jan 08 j 18:17	11° <u>♁</u> 36'05	20.99255 AU	morning rise		-9489 Feb 20 j 01:49	6° <u>♁</u> 59'01	
morning rise	-9495 Jan 24 j 21:28	12° <u>♁</u> 30'28		retrograde		-9489 May 25 j 02:35	10° <u>♁</u> 08'32	
	-9495 Mar 20 j 21:55	15° <u>♁</u>		opposition		-9489 Aug 08 j 21:19	8° <u>♁</u> 07'54	-1°03'20
retrograde	-9495 Apr 29 j 12:09	15° <u>♁</u> 37'44		min. Earth dist.		-9489 Aug 09 j 01:14	8° <u>♁</u> 07'29	18.63105 AU

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Attention, astronomical year style is used: The year -9489 in astronomical counting style is the year 9490 BCE in historical counting style.

direct	-9489 Oct 22 j 13:10	6°♂08'18		conjunction	-9482 Mar 06 j 08:40	5°♂46'41	-1°05'00
evening set	-9488 Jan 22 j 04:38	9°♂13'29		minimum elong	-9482 Mar 06 j 08:40	5°♂46'41	1°05'35
				morning rise	-9482 Mar 23 j 03:57	6°♂45'49	
conjunction	-9488 Feb 07 j 21:55	10°♂10'51	-0°58'13	retrograde	-9482 Jun 24 j 08:14	9°♂59'30	
minimum elong	-9488 Feb 07 j 21:55	10°♂10'51	0°58'44	opposition	-9482 Sep 06 j 17:32	7°♂58'23	-1°12'13
max. Earth dist.	-9488 Feb 07 j 16:34	10°♂10'05	20.59803 AU	min. Earth dist.	-9482 Sep 07 j 11:13	7°♂56'29	18.14129 AU
morning rise	-9488 Feb 24 j 16:47	11°♂08'29		direct	-9482 Nov 20 j 19:31	5°♂56'02	
retrograde	-9488 May 28 j 16:22	14°♂18'30		evening set	-9481 Feb 22 j 09:52	9°♂10'40	
opposition	-9488 Aug 12 j 04:53	12°♂17'45	-1°05'41	max. Earth dist.	-9481 Mar 10 j 06:34	10°♂06'40	20.10361 AU
min. Earth dist.	-9488 Aug 12 j 09:49	12°♂17'13	18.56484 AU				
direct	-9488 Oct 25 j 23:10	10°♂17'44		conjunction	-9481 Mar 11 j 05:40	10°♂10'06	-1°04'53
evening set	-9487 Jan 25 j 19:42	13°♂24'07		minimum elong	-9481 Mar 11 j 05:40	10°♂10'06	1°05'28
				morning rise	-9481 Mar 28 j 00:39	11°♂09'28	
conjunction	-9487 Feb 11 j 13:28	14°♂21'46	-1°00'11	retrograde	-9481 Jun 28 j 23:57	14°♂23'47	
minimum elong	-9487 Feb 11 j 13:27	14°♂21'46	1°00'42	opposition	-9481 Sep 11 j 06:32	12°♂22'34	-1°11'54
max. Earth dist.	-9487 Feb 11 j 05:07	14°♂20'34	20.53100 AU	min. Earth dist.	-9481 Sep 12 j 03:08	12°♂20'21	18.06653 AU
morning rise	-9487 Feb 28 j 08:36	15°♂19'39		direct	-9481 Nov 25 j 09:54	10°♂19'47	
retrograde	-9487 Jun 02 j 03:41	18°♂30'12		evening set	-9480 Feb 27 j 07:35	13°♂35'50	
opposition	-9487 Aug 16 j 13:09	16°♂29'22	-1°07'42	max. Earth dist.	-9480 Mar 14 j 01:26	14°♂31'41	20.02859 AU
min. Earth dist.	-9487 Aug 16 j 21:07	16°♂28'32	18.49721 AU				
direct	-9487 Oct 30 j 06:55	14°♂28'58		conjunction	-9480 Mar 15 j 03:25	14°♂35'34	-1°04'22
evening set	-9486 Jan 30 j 11:33	17°♂36'37		minimum elong	-9480 Mar 15 j 03:25	14°♂35'34	1°04'56
				morning rise	-9480 Mar 31 j 22:15	15°♂35'10	
conjunction	-9486 Feb 16 j 05:54	18°♂34'34	-1°01'49	retrograde	-9480 Jul 02 j 18:05	18°♂50'07	
minimum elong	-9486 Feb 16 j 05:54	18°♂34'34	1°02'23	opposition	-9480 Sep 14 j 20:17	16°♂48'47	-1°11'08
max. Earth dist.	-9486 Feb 15 j 19:34	18°♂33'04	20.46282 AU	min. Earth dist.	-9480 Sep 15 j 18:01	16°♂46'26	17.99134 AU
morning rise	-9486 Mar 05 j 01:13	19°♂32'41		direct	-9480 Nov 29 j 02:52	14°♂45'32	
retrograde	-9486 Jun 06 j 18:54	22°♂43'49		evening set	-9479 Mar 03 j 06:08	18°♂03'01	
opposition	-9486 Aug 20 j 22:02	20°♂42'55	-1°09'22	max. Earth dist.	-9479 Mar 18 j 22:24	18°♂58'53	19.95330 AU
min. Earth dist.	-9486 Aug 21 j 07:02	20°♂41'58	18.42843 AU				
direct	-9486 Nov 03 j 18:18	18°♂42'09		conjunction	-9479 Mar 20 j 02:02	19°♂03'01	-1°03'28
evening set	-9485 Feb 04 j 04:18	21°♂51'07		minimum elong	-9479 Mar 20 j 02:02	19°♂03'01	1°04'03
				morning rise	-9479 Apr 05 j 20:19	20°♂02'50	
conjunction	-9485 Feb 20 j 23:02	22°♂49'22	-1°03'09	retrograde	-9479 Jul 07 j 11:18	23°♂18'24	
minimum elong	-9485 Feb 20 j 23:02	22°♂49'22	1°03'42	opposition	-9479 Sep 19 j 10:57	21°♂16'56	-1°09'57
max. Earth dist.	-9485 Feb 20 j 09:59	22°♂47'28	20.39341 AU	min. Earth dist.	-9479 Sep 20 j 11:10	21°♂14'19	17.91633 AU
morning rise	-9485 Mar 09 j 18:27	23°♂47'45		direct	-9479 Dec 03 j 19:46	19°♂13'13	
retrograde	-9485 Jun 11 j 07:46	26°♂59'29		evening set	-9478 Mar 08 j 05:30	22°♂32'06	
opposition	-9485 Aug 25 j 07:47	24°♂58'33	-1°10'40	max. Earth dist.	-9478 Mar 23 j 18:53	23°♂27'49	19.87883 AU
min. Earth dist.	-9485 Aug 25 j 19:50	24°♂57'16	18.35853 AU				
direct	-9485 Nov 08 j 03:46	22°♂57'24		conjunction	-9478 Mar 25 j 01:09	23°♂32'22	-1°02'11
evening set	-9484 Feb 08 j 22:10	26°♂07'45		minimum elong	-9478 Mar 25 j 01:09	23°♂32'22	1°02'44
				morning rise	-9478 Apr 10 j 19:08	24°♂32'25	
conjunction	-9484 Feb 25 j 17:20	27°♂06'17	-1°04'08	retrograde	-9478 Jul 12 j 06:27	27°♂48'35	
minimum elong	-9484 Feb 25 j 17:20	27°♂06'17	1°04'42	opposition	-9478 Sep 24 j 02:23	25°♂46'58	-1°08'20
max. Earth dist.	-9484 Feb 25 j 01:56	27°♂04'02	20.32297 AU	min. Earth dist.	-9478 Sep 25 j 03:27	25°♂44'16	17.84261 AU
morning rise	-9484 Mar 13 j 12:50	28°♂04'55		direct	-9478 Dec 08 j 14:35	23°♂42'47	
	-9484 Apr 19 j 22:55	0°♂		evening set	-9477 Mar 13 j 05:18	27°♂03'03	
retrograde	-9484 Jun 15 j 00:18	1°♂17'18		max. Earth dist.	-9477 Mar 28 j 17:56	27°♂58'54	19.80588 AU
	-9484 Aug 11 j 06:41	30°♂♂					
opposition	-9484 Aug 28 j 18:03	29°♂16'19	-1°11'36	conjunction	-9477 Mar 30 j 00:55	28°♂03'35	-1°00'30
min. Earth dist.	-9484 Aug 29 j 07:23	29°♂14'54	18.28746 AU	minimum elong	-9477 Mar 30 j 00:55	28°♂03'35	1°01'02
direct	-9484 Nov 11 j 16:48	27°♂14'47		morning rise	-9477 Apr 15 j 18:13	29°♂03'50	
	-9483 Feb 04 j 21:02	0°♂			-9477 May 02 j 04:35	0°♂	
evening set	-9483 Feb 12 j 17:12	0°♂26'33		retrograde	-9477 Jul 17 j 01:09	2°♂20'36	
				opposition	-9477 Sep 28 j 18:48	0°♂18'52	-1°06'17
conjunction	-9483 Mar 01 j 12:39	1°♂25'24	-1°04'45	min. Earth dist.	-9477 Sep 29 j 21:44	0°♂15'56	17.77077 AU
minimum elong	-9483 Mar 01 j 12:39	1°♂25'24	1°05'19		-9477 Oct 06 j 01:01	30°♂♂	
max. Earth dist.	-9483 Feb 28 j 18:32	1°♂22'44	20.25111 AU	direct	-9477 Dec 13 j 09:00	28°♂14'14	
morning rise	-9483 Mar 18 j 08:01	2°♂24'17			-9476 Feb 17 j 03:38	0°♂	
retrograde	-9483 Jun 19 j 14:43	5°♂37'19		evening set	-9476 Mar 17 j 06:08	1°♂35'51	
opposition	-9483 Sep 02 j 05:27	3°♂36'17	-1°12'07	max. Earth dist.	-9476 Apr 01 j 15:55	2°♂31'33	19.73537 AU
min. Earth dist.	-9483 Sep 02 j 21:55	3°♂34'31	18.21501 AU				
direct	-9483 Nov 16 j 04:30	1°♂34'21		conjunction	-9476 Apr 03 j 01:17	2°♂36'37	-0°58'26
evening set	-9482 Feb 17 j 13:03	4°♂47'32		minimum elong	-9476 Apr 03 j 01:17	2°♂36'37	0°58'57
max. Earth dist.	-9482 Mar 05 j 11:52	5°♂43'37	20.17800 AU	morning rise	-9476 Apr 19 j 18:09	3°♂37'04	
				retrograde	-9476 Jul 20 j 21:54	6°♂54'25	

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Attention, astronomical year style is used: The year -9476 in astronomical counting style is the year 9477 BCE in historical counting style.

opposition	-9476 Oct 02 j 11:53	4° \approx 52'33	-1°03'48	min. Earth dist.	-9470 Oct 31 j 22:12	2° \approx 48'43	17.37558 AU
min. Earth dist.	-9476 Oct 03 j 15:32	4° \approx 49'33	17.70181 AU	direct	-9469 Jan 14 j 20:16	0° \approx 45'35	
direct	-9476 Dec 17 j 05:22	2° \approx 47'30		evening set	-9469 Apr 21 j 03:45	4° \approx 15'25	
evening set	-9475 Mar 22 j 07:30	6° \approx 10'28		max. Earth dist.	-9469 May 06 j 06:33	5° \approx 11'42	19.35512 AU
max. Earth dist.	-9475 Apr 06 j 17:04	7° \approx 06'22	19.66797 AU				
				conjunction	-9469 May 07 j 18:16	5° \approx 17'18	-0°33'59
conjunction	-9475 Apr 08 j 02:24	7° \approx 11'27	-0°56'00	minimum elong	-9469 May 07 j 18:17	5° \approx 17'18	0°34'17
minimum elong	-9475 Apr 08 j 02:25	7° \approx 11'27	0°56'29	morning rise	-9469 May 24 j 04:37	6° \approx 18'36	
morning rise	-9475 Apr 24 j 18:22	8° \approx 12'05		retrograde	-9469 Aug 23 j 12:47	9° \approx 39'44	
retrograde	-9475 Jul 25 j 18:23	11° \approx 30'00		opposition	-9469 Nov 04 j 14:43	7° \approx 37'43	-0°35'23
opposition	-9475 Oct 07 j 06:10	9° \approx 28'04	-1°00'54	min. Earth dist.	-9469 Nov 05 j 21:26	7° \approx 34'21	17.33691 AU
min. Earth dist.	-9475 Oct 08 j 10:57	9° \approx 24'55	17.63626 AU	direct	-9468 Jan 19 j 23:30	5° \approx 31'03	
direct	-9475 Dec 22 j 01:15	7° \approx 22'38		evening set	-9468 Apr 25 j 08:44	9° \approx 01'43	
evening set	-9474 Mar 27 j 09:29	10° \approx 46'53		max. Earth dist.	-9468 May 10 j 09:59	9° \approx 57'58	19.31860 AU
max. Earth dist.	-9474 Apr 11 j 16:26	11° \approx 42'40	19.60447 AU				
				conjunction	-9468 May 11 j 22:09	10° \approx 03'39	-0°29'17
conjunction	-9474 Apr 13 j 03:42	11° \approx 48'04	-0°53'11	minimum elong	-9468 May 11 j 22:09	10° \approx 03'39	0°29'31
minimum elong	-9474 Apr 13 j 03:43	11° \approx 48'04	0°53'39	morning rise	-9468 May 28 j 07:18	11° \approx 04'59	
morning rise	-9474 Apr 29 j 19:03	12° \approx 48'52		retrograde	-9468 Aug 27 j 12:07	14° \approx 26'32	
	-9474 Jun 10 j 07:42	15° \approx		opposition	-9468 Nov 08 j 15:19	12° \approx 24'30	-0°30'01
retrograde	-9474 Jul 30 j 16:33	16° \approx 07'23		min. Earth dist.	-9468 Nov 09 j 22:45	12° \approx 21'04	17.30268 AU
	-9474 Sep 20 j 09:48	15° \approx		direct	-9467 Jan 24 j 01:40	10° \approx 17'43	
opposition	-9474 Oct 12 j 01:15	14° \approx 05'22	-0°57'35	evening set	-9467 Apr 30 j 13:48	13° \approx 49'05	
min. Earth dist.	-9474 Oct 13 j 06:32	14° \approx 02'10	17.57499 AU	max. Earth dist.	-9467 May 15 j 14:44	14° \approx 45'28	19.28669 AU
direct	-9474 Dec 26 j 22:47	11° \approx 59'37					
	-9473 Mar 25 j 10:25	15° \approx		conjunction	-9467 May 17 j 02:08	14° \approx 51'03	-0°24'21
evening set	-9473 Apr 01 j 12:00	15° \approx 25'07		minimum elong	-9467 May 17 j 02:08	14° \approx 51'03	0°24'33
max. Earth dist.	-9473 Apr 16 j 19:08	16° \approx 21'09	19.54536 AU	morning rise	-9467 Jun 02 j 10:06	15° \approx 52'23	
				retrograde	-9467 Sep 01 j 13:40	19° \approx 14'17	
conjunction	-9473 Apr 18 j 05:49	16° \approx 26'30	-0°50'00	opposition	-9467 Nov 13 j 16:39	17° \approx 12'15	-0°24'24
minimum elong	-9473 Apr 18 j 05:50	16° \approx 26'30	0°50'27	min. Earth dist.	-9467 Nov 14 j 22:51	17° \approx 08'57	17.27300 AU
morning rise	-9473 May 04 j 20:10	17° \approx 27'26		direct	-9466 Jan 29 j 06:58	15° \approx 05'22	
retrograde	-9473 Aug 04 j 14:32	20° \approx 46'30		evening set	-9466 May 05 j 18:44	18° \approx 37'18	
opposition	-9473 Oct 16 j 21:10	18° \approx 44'28	-0°53'52	max. Earth dist.	-9466 May 20 j 19:11	19° \approx 33'46	19.25944 AU
min. Earth dist.	-9473 Oct 18 j 03:02	18° \approx 41'12	17.51813 AU				
direct	-9473 Dec 31 j 20:29	16° \approx 38'27		conjunction	-9466 May 22 j 05:57	19° \approx 39'16	-0°19'14
evening set	-9472 Apr 05 j 15:20	20° \approx 05'09		minimum elong	-9466 May 22 j 05:57	19° \approx 39'16	0°19'25
max. Earth dist.	-9472 Apr 20 j 20:02	21° \approx 01'05	19.49090 AU	morning rise	-9466 Jun 07 j 12:38	20° \approx 40'35	
				retrograde	-9466 Sep 06 j 13:13	24° \approx 02'48	
conjunction	-9472 Apr 22 j 08:20	21° \approx 06'42	-0°46'29	opposition	-9466 Nov 18 j 18:41	22° \approx 00'43	-0°18'37
minimum elong	-9472 Apr 22 j 08:21	21° \approx 06'42	0°46'54	min. Earth dist.	-9466 Nov 20 j 01:17	21° \approx 57'23	17.24832 AU
morning rise	-9472 May 08 j 21:54	22° \approx 07'46		direct	-9465 Feb 03 j 10:11	19° \approx 53'45	
retrograde	-9472 Aug 08 j 13:30	25° \approx 27'24		evening set	-9465 May 10 j 23:43	23° \approx 26'08	
opposition	-9472 Oct 20 j 18:10	23° \approx 25'20	-0°49'46	max. Earth dist.	-9465 May 25 j 23:43	24° \approx 22'41	19.23748 AU
min. Earth dist.	-9472 Oct 22 j 00:38	23° \approx 22'01	17.46606 AU				
direct	-9471 Jan 04 j 19:20	21° \approx 19'07		conjunction	-9465 May 27 j 09:41	24° \approx 28'04	-0°13'59
evening set	-9471 Apr 10 j 18:59	24° \approx 46'57		minimum elong	-9465 May 27 j 09:41	24° \approx 28'04	0°14'06
max. Earth dist.	-9471 Apr 25 j 23:53	25° \approx 43'08	19.44111 AU	behind sun begin	-9465 May 27 j 06:26	24° \approx 27'34	
				behind sun end	-9465 May 27 j 12:56	24° \approx 28'34	
conjunction	-9471 Apr 27 j 11:20	25° \approx 48'39	-0°42'37	morning rise	-9465 Jun 12 j 15:14	25° \approx 29'21	
minimum elong	-9471 Apr 27 j 11:20	25° \approx 48'39	0°43'00	retrograde	-9465 Sep 11 j 15:10	28° \approx 51'47	
morning rise	-9471 May 13 j 23:47	26° \approx 49'48		opposition	-9465 Nov 23 j 20:59	26° \approx 49'41	-0°12'41
	-9471 Jul 25 j 16:41	0° \approx		min. Earth dist.	-9465 Nov 25 j 01:48	26° \approx 46'32	17.22900 AU
retrograde	-9471 Aug 13 j 12:57	0° \approx 09'59		direct	-9464 Feb 08 j 16:30	24° \approx 42'40	
	-9471 Sep 01 j 11:01	30° \approx		evening set	-9464 May 15 j 04:30	28° \approx 15'21	
opposition	-9471 Oct 25 j 16:07	28° \approx 07'56	-0°45'18	max. Earth dist.	-9464 May 30 j 05:05	29° \approx 12'07	19.22105 AU
min. Earth dist.	-9471 Oct 26 j 22:36	28° \approx 04'36	17.41849 AU				
direct	-9470 Jan 09 j 19:54	26° \approx 01'33		conjunction	-9464 May 31 j 13:18	29° \approx 17'13	-0°08'39
evening set	-9470 Apr 15 j 23:17	29° \approx 30'26		minimum elong	-9464 May 31 j 13:18	29° \approx 17'13	0°08'44
	-9470 Apr 23 j 23:42	0° \approx		behind sun begin	-9464 May 31 j 07:31	29° \approx 16'20	
max. Earth dist.	-9470 May 01 j 02:06	0° \approx 26'32	19.39585 AU	behind sun end	-9464 May 31 j 19:05	29° \approx 18'07	
					-9464 Jun 11 j 19:21	0° \approx	
conjunction	-9470 May 02 j 14:38	0° \approx 32'14	-0°38'27	morning rise	-9464 Jun 16 j 17:27	0° \approx 18'27	
minimum elong	-9470 May 02 j 14:38	0° \approx 32'14	0°38'47	retrograde	-9464 Sep 15 j 15:14	3° \approx 41'03	
morning rise	-9470 May 19 j 02:05	1° \approx 33'28		opposition	-9464 Nov 28 j 00:08	1° \approx 38'55	-0°06'40
retrograde	-9470 Aug 18 j 12:04	4° \approx 54'10		min. Earth dist.	-9464 Nov 29 j 04:51	1° \approx 35'48	17.21559 AU
opposition	-9470 Oct 30 j 14:59	2° \approx 52'07	-0°40'30		-9463 Jan 10 j 13:38	30° \approx	

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Attention, astronomical year style is used: The year -9463 in astronomical counting style is the year 9464 BCE in historical counting style.

direct	-9463 Feb 12 j 20:30	29° 31 '31.53			-9458 Jul 29 j 16:13	0° 8	
	-9463 Mar 17 j 14:13	0° 9		retrograde	-9458 Oct 14 j 22:53	2° 8 32'42	
evening set	-9463 May 20 j 08:55	3° 9 04'44		opposition	-9458 Dec 28 j 00:42	0° 8 30'50	0°28'53
max. Earth dist.	-9463 Jun 04 j 09:08	4° 9 01'33	19.21087 AU	min. Earth dist.	-9458 Dec 28 j 17:06	0° 8 29'05	17.27882 AU
					-9457 Jan 09 j 03:39	30° 8 9	
conjunction	-9463 Jun 05 j 16:16	4° 9 06'31	-0°03'15	direct	-9457 Mar 15 j 04:44	28° 9 24'53	
minimum elong	-9463 Jun 05 j 16:16	4° 9 06'31	0°03'17		-9457 May 15 j 18:00	0° 8	
behind sun begin	-9463 Jun 05 j 09:38	4° 9 05'29		evening set	-9457 Jun 19 j 01:34	1° 8 56'05	
behind sun end	-9463 Jun 05 j 22:55	4° 9 07'33		max. Earth dist.	-9457 Jul 04 j 07:56	2° 8 54'04	19.29484 AU
morning rise	-9463 Jun 21 j 19:18	5° 9 07'39					
retrograde	-9463 Sep 20 j 17:21	8° 9 30'24		conjunction	-9457 Jul 05 j 00:55	2° 8 56'46	0°28'24
opposition	-9463 Dec 03 j 03:32	6° 9 28'14	-0°00'36	minimum elong	-9457 Jul 05 j 00:55	2° 8 56'46	0°28'39
min. Earth dist.	-9463 Dec 04 j 05:47	6° 9 25'23	17.20861 AU	morning rise	-9457 Jul 20 j 20:41	3° 8 56'54	
asc. node	-9462 Jan 07 j 16:03	5° 9 03'47		retrograde	-9457 Oct 19 j 22:36	7° 8 19'28	
direct	-9462 Feb 18 j 02:28	4° 9 21'13		opposition	-9456 Jan 02 j 05:10	5° 8 17'43	0°34'19
evening set	-9462 May 25 j 12:53	7° 9 54'06		min. Earth dist.	-9456 Jan 02 j 19:11	5° 8 16'14	17.31257 AU
				direct	-9456 Mar 19 j 09:43	3° 8 12'06	
conjunction	-9462 Jun 10 j 19:04	8° 9 55'46	0°02'19	evening set	-9456 Jun 23 j 02:14	6° 8 42'38	
minimum elong	-9462 Jun 10 j 19:04	8° 9 55'46	0°02'20	max. Earth dist.	-9456 Jul 08 j 10:59	7° 8 40'54	19.33130 AU
behind sun begin	-9462 Jun 10 j 12:24	8° 9 54'44					
behind sun end	-9462 Jun 11 j 01:44	8° 9 56'48		conjunction	-9456 Jul 09 j 00:26	7° 8 43'03	0°33'09
max. Earth dist.	-9462 Jun 09 j 14:46	8° 9 51'16	19.20726 AU	minimum elong	-9456 Jul 09 j 00:25	7° 8 43'03	0°33'26
morning rise	-9462 Jun 26 j 20:40	9° 9 56'47		morning rise	-9456 Jul 24 j 19:00	8° 8 42'57	
retrograde	-9462 Sep 25 j 18:08	13° 9 19'36		retrograde	-9456 Oct 23 j 22:53	12° 8 05'18	
opposition	-9462 Dec 08 j 07:18	11° 9 17'26	0°05'28	opposition	-9455 Jan 06 j 09:46	10° 8 03'42	0°39'29
min. Earth dist.	-9462 Dec 09 j 08:47	11° 9 14'41	17.20848 AU	min. Earth dist.	-9455 Jan 06 j 21:19	10° 8 02'28	17.35144 AU
direct	-9461 Feb 23 j 06:42	9° 9 10'30		direct	-9455 Mar 24 j 15:45	7° 8 58'27	
evening set	-9461 May 30 j 16:34	12° 9 43'18		evening set	-9455 Jun 28 j 02:10	11° 8 28'08	
conjunction	-9461 Jun 15 j 21:14	13° 9 44'48	0°07'43	conjunction	-9455 Jul 13 j 23:01	12° 8 28'16	0°37'39
minimum elong	-9461 Jun 15 j 21:15	13° 9 44'49	0°07'47	minimum elong	-9455 Jul 13 j 23:00	12° 8 28'16	0°38'00
behind sun begin	-9461 Jun 15 j 15:15	13° 9 43'52		max. Earth dist.	-9455 Jul 13 j 11:23	12° 8 26'25	19.37257 AU
behind sun end	-9461 Jun 16 j 03:15	13° 9 45'45		morning rise	-9455 Jul 29 j 16:42	13° 8 27'56	
max. Earth dist.	-9461 Jun 14 j 18:07	13° 9 40'29	19.21075 AU		-9455 Aug 25 j 04:17	15° 8	
morning rise	-9461 Jul 01 j 21:46	14° 9 45'42		retrograde	-9455 Oct 28 j 21:59	16° 8 50'02	
retrograde	-9461 Sep 30 j 20:04	18° 9 08'33			-9454 Jan 07 j 01:43	15° 8 8	
opposition	-9461 Dec 13 j 11:18	16° 9 06'25	0°11'29	opposition	-9454 Jan 11 j 14:13	14° 8 48'32	0°44'22
min. Earth dist.	-9461 Dec 14 j 09:59	16° 9 03'58	17.21552 AU	min. Earth dist.	-9454 Jan 11 j 23:41	14° 8 47'32	17.39503 AU
direct	-9460 Feb 28 j 12:01	13° 9 59'37		direct	-9454 Mar 29 j 19:32	12° 8 43'37	
evening set	-9460 Jun 03 j 19:36	17° 9 32'12			-9454 Jun 12 j 14:33	15° 8	
				evening set	-9454 Jul 03 j 01:19	16° 8 12'24	
conjunction	-9460 Jun 19 j 23:04	18° 9 33'33	0°13'03	conjunction	-9454 Jul 18 j 21:05	17° 8 12'14	0°41'53
minimum elong	-9460 Jun 19 j 23:04	18° 9 33'33	0°13'11	minimum elong	-9454 Jul 18 j 21:05	17° 8 12'14	0°42'15
behind sun begin	-9460 Jun 19 j 19:07	18° 9 32'56		max. Earth dist.	-9454 Jul 18 j 12:36	17° 8 10'54	19.41822 AU
behind sun end	-9460 Jun 20 j 03:01	18° 9 34'10		morning rise	-9454 Aug 03 j 13:47	18° 8 11'39	
max. Earth dist.	-9460 Jun 18 j 23:26	18° 9 29'46	19.22140 AU	retrograde	-9454 Nov 02 j 21:48	21° 8 33'24	
morning rise	-9460 Jul 05 j 22:09	19° 9 34'16		opposition	-9453 Jan 16 j 18:07	19° 8 32'00	0°48'55
retrograde	-9460 Oct 04 j 21:04	22° 9 57'07		min. Earth dist.	-9453 Jan 17 j 00:44	19° 8 31'19	17.44251 AU
opposition	-9460 Dec 17 j 15:42	20° 9 55'02	0°17'26	direct	-9453 Apr 04 j 00:09	17° 8 27'28	
min. Earth dist.	-9460 Dec 18 j 12:53	20° 9 52'45	17.22969 AU	evening set	-9453 Jul 07 j 23:42	20° 8 55'12	
direct	-9459 Mar 04 j 17:21	18° 9 48'29					
evening set	-9459 Jun 08 j 22:17	22° 9 20'43		conjunction	-9453 Jul 23 j 18:17	21° 8 54'44	0°45'49
max. Earth dist.	-9459 Jun 24 j 02:01	23° 9 18'19	19.23927 AU	minimum elong	-9453 Jul 23 j 18:17	21° 8 54'44	0°46'14
				max. Earth dist.	-9453 Jul 23 j 11:50	21° 8 53'43	19.46751 AU
conjunction	-9459 Jun 25 j 00:15	23° 9 21'51	0°18'18	morning rise	-9453 Aug 08 j 10:11	22° 8 53'54	
minimum elong	-9459 Jun 25 j 00:15	23° 9 21'51	0°18'27	retrograde	-9453 Nov 07 j 20:03	26° 8 15'16	
morning rise	-9459 Jul 10 j 22:18	24° 9 22'24		opposition	-9452 Jan 21 j 21:55	24° 8 13'56	0°53'07
retrograde	-9459 Oct 09 j 22:03	27° 9 45'13		min. Earth dist.	-9452 Jan 22 j 02:45	24° 8 13'25	17.49363 AU
opposition	-9459 Dec 22 j 20:07	25° 9 43'13	0°23'15	direct	-9452 Apr 08 j 02:35	22° 8 09'44	
min. Earth dist.	-9459 Dec 23 j 14:29	25° 9 41'15	17.25105 AU	evening set	-9452 Jul 11 j 20:58	25° 8 36'20	
direct	-9458 Mar 09 j 22:28	23° 9 36'56					
evening set	-9458 Jun 14 j 00:05	27° 9 08'43		conjunction	-9452 Jul 27 j 14:34	26° 8 35'34	0°49'25
max. Earth dist.	-9458 Jun 29 j 06:24	28° 9 06'42	19.26399 AU	minimum elong	-9452 Jul 27 j 14:33	26° 8 35'34	0°49'51
				max. Earth dist.	-9452 Jul 27 j 10:59	26° 8 35'00	19.52032 AU
conjunction	-9458 Jun 30 j 00:55	28° 9 09'39	0°23'26	morning rise	-9452 Aug 12 j 05:41	27° 8 34'28	
minimum elong	-9458 Jun 30 j 00:54	28° 9 09'39	0°23'39		-9452 Sep 27 j 08:39	0° 8 II	
morning rise	-9458 Jul 15 j 21:40	29° 9 09'59					

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Attention, astronomical year style is used: The year -9452 in astronomical counting style is the year 9453 BCE in historical counting style.

retrograde	-9452 Nov 11 j 19:16	0° Π 55'23		conjunction	-9445 Aug 28 j 10:43	28° Π 25'17	1°04'14
	-9452 Dec 29 j 09:17	30° κ 8		minimum elong	-9445 Aug 28 j 10:43	28° Π 25'17	1°04'49
opposition	-9451 Jan 26 j 01:10	28° κ 54'07	0°56'55	max. Earth dist.	-9445 Aug 29 j 02:36	28° Π 27'44	19.97707 AU
min. Earth dist.	-9451 Jan 26 j 02:37	28° κ 53'58	17.54796 AU	morning rise	-9445 Sep 12 j 23:13	29° Π 22'18	
direct	-9451 Apr 13 j 06:21	26° κ 50'16			-9445 Sep 23 j 15:32	0° ϕ	
	-9451 Jul 12 j 10:49	0° Π		retrograde	-9445 Dec 14 j 11:09	2° ϕ 39'15	
evening set	-9451 Jul 16 j 17:22	0° Π 15'39		min. Earth dist.	-9444 Feb 28 j 12:00	0° ϕ 40'11	18.01483 AU
				opposition	-9444 Feb 29 j 04:10	0° ϕ 38'32	1°11'48
conjunction	-9451 Aug 01 j 09:59	1° Π 14'34	0°52'40		-9444 Mar 16 j 02:19	30° κ Π	
minimum elong	-9451 Aug 01 j 09:59	1° Π 14'34	0°53'08	direct	-9444 May 16 j 01:36	28° Π 37'31	
max. Earth dist.	-9451 Aug 01 j 09:00	1° Π 14'24	19.57624 AU		-9444 Jul 12 j 09:20	0° ϕ	
morning rise	-9451 Aug 17 j 00:28	2° Π 13'11		evening set	-9444 Aug 16 j 11:16	1° ϕ 53'20	
retrograde	-9451 Nov 16 j 15:59	5° Π 33'36					
opposition	-9450 Jan 31 j 03:51	3° Π 32'22	1°00'20	conjunction	-9444 Aug 31 j 23:43	2° ϕ 50'05	1°04'49
min. Earth dist.	-9450 Jan 31 j 03:41	3° Π 32'23	17.60557 AU	minimum elong	-9444 Aug 31 j 23:43	2° ϕ 50'05	1°05'23
direct	-9450 Apr 18 j 07:17	1° Π 28'52		max. Earth dist.	-9444 Sep 01 j 17:12	2° ϕ 52'46	20.05242 AU
evening set	-9450 Jul 21 j 12:36	4° Π 52'57		morning rise	-9444 Sep 16 j 12:23	3° ϕ 46'51	
				retrograde	-9444 Dec 18 j 05:36	7° ϕ 03'14	
conjunction	-9450 Aug 06 j 04:23	5° Π 51'34	0°55'33	min. Earth dist.	-9443 Mar 04 j 06:10	5° ϕ 04'38	18.09067 AU
minimum elong	-9450 Aug 06 j 04:23	5° Π 51'34	0°56'03	opposition	-9443 Mar 05 j 01:27	5° ϕ 02'40	1°12'12
max. Earth dist.	-9450 Aug 06 j 06:00	5° Π 51'49	19.63544 AU	direct	-9443 May 20 j 21:45	3° ϕ 02'07	
morning rise	-9450 Aug 21 j 18:22	6° Π 49'54		evening set	-9443 Aug 20 j 23:53	6° ϕ 16'34	
retrograde	-9450 Nov 21 j 14:13	10° Π 09'47					
opposition	-9449 Feb 05 j 05:43	8° Π 08'35	1°03'19	conjunction	-9443 Sep 05 j 12:14	7° ϕ 13'03	1°05'01
min. Earth dist.	-9449 Feb 05 j 01:54	8° Π 08'59	17.66625 AU	minimum elong	-9443 Sep 05 j 12:14	7° ϕ 13'03	1°05'36
direct	-9449 Apr 23 j 09:40	6° Π 05'26		max. Earth dist.	-9443 Sep 06 j 08:54	7° ϕ 16'12	20.12839 AU
evening set	-9449 Jul 26 j 06:50	9° Π 28'11		morning rise	-9443 Sep 21 j 00:54	8° ϕ 09'35	
				retrograde	-9443 Dec 22 j 20:13	11° ϕ 25'20	
conjunction	-9449 Aug 10 j 21:50	10° Π 26'28	0°58'03	opposition	-9442 Mar 09 j 21:50	9° ϕ 24'56	1°12'10
minimum elong	-9449 Aug 10 j 21:50	10° Π 26'28	0°58'34	min. Earth dist.	-9442 Mar 09 j 01:23	9° ϕ 27'01	18.16669 AU
max. Earth dist.	-9449 Aug 11 j 02:32	10° Π 27'12	19.69762 AU	direct	-9442 May 25 j 15:50	7° ϕ 24'52	
morning rise	-9449 Aug 26 j 11:16	11° Π 24'32		evening set	-9442 Aug 25 j 11:48	10° ϕ 37'57	
retrograde	-9449 Nov 26 j 08:55	14° Π 43'51					
opposition	-9448 Feb 10 j 07:03	12° Π 42'42	1°05'53	conjunction	-9442 Sep 09 j 23:56	11° ϕ 34'09	1°04'49
min. Earth dist.	-9448 Feb 10 j 01:33	12° Π 43'16	17.73013 AU	minimum elong	-9442 Sep 09 j 23:56	11° ϕ 34'10	1°05'23
direct	-9448 Apr 27 j 09:13	10° Π 39'55		max. Earth dist.	-9442 Sep 10 j 21:33	11° ϕ 37'27	20.20422 AU
evening set	-9448 Jul 30 j 00:06	14° Π 01'17		morning rise	-9442 Sep 25 j 12:57	12° ϕ 30'29	
				retrograde	-9442 Dec 27 j 12:54	15° ϕ 45'38	
conjunction	-9448 Aug 14 j 14:20	14° Π 59'15	1°00'11	opposition	-9441 Mar 14 j 17:23	13° ϕ 45'23	1°11'44
minimum elong	-9448 Aug 14 j 14:20	14° Π 59'15	1°00'43	min. Earth dist.	-9441 Mar 13 j 18:29	13° ϕ 47'42	18.24219 AU
max. Earth dist.	-9448 Aug 14 j 21:28	15° Π 00'22	19.76317 AU	direct	-9441 May 30 j 09:09	11° ϕ 45'44	
morning rise	-9448 Aug 30 j 03:28	15° Π 57'02		evening set	-9441 Aug 29 j 22:46	14° ϕ 57'29	
retrograde	-9448 Nov 30 j 06:05	19° Π 15'47					
opposition	-9447 Feb 14 j 07:30	17° Π 14'41	1°08'00	conjunction	-9441 Sep 14 j 11:00	15° ϕ 53'26	1°04'16
min. Earth dist.	-9447 Feb 13 j 22:08	17° Π 15'40	17.79727 AU	minimum elong	-9441 Sep 14 j 11:00	15° ϕ 53'26	1°04'50
direct	-9447 May 02 j 09:41	15° Π 12'18		max. Earth dist.	-9441 Sep 15 j 11:24	15° ϕ 57'08	20.27898 AU
evening set	-9447 Aug 03 j 16:13	18° Π 32'17		morning rise	-9441 Sep 30 j 00:08	16° ϕ 49'32	
				retrograde	-9440 Jan 01 j 02:42	20° ϕ 04'05	
conjunction	-9447 Aug 19 j 05:57	19° Π 29'56	1°01'55	opposition	-9440 Mar 18 j 12:12	18° ϕ 03'58	1°10'53
minimum elong	-9447 Aug 19 j 05:56	19° Π 29'56	1°02'28	min. Earth dist.	-9440 Mar 17 j 12:15	18° ϕ 06'23	18.31619 AU
max. Earth dist.	-9447 Aug 19 j 16:28	19° Π 31'34	19.83179 AU	direct	-9440 Jun 03 j 01:50	16° ϕ 04'44	
morning rise	-9447 Sep 03 j 18:43	20° Π 27'28		evening set	-9440 Sep 02 j 09:15	19° ϕ 15'09	
retrograde	-9447 Dec 04 j 23:26	23° Π 45'36					
opposition	-9446 Feb 19 j 07:18	21° Π 44'37	1°09'42	conjunction	-9440 Sep 17 j 21:25	20° ϕ 10'52	1°03'21
min. Earth dist.	-9446 Feb 18 j 20:13	21° Π 45'45	17.86744 AU	minimum elong	-9440 Sep 17 j 21:25	20° ϕ 10'52	1°03'55
direct	-9446 May 07 j 07:20	19° Π 42'39		max. Earth dist.	-9440 Sep 18 j 22:18	20° ϕ 14'37	20.35208 AU
evening set	-9446 Aug 08 j 07:33	23° Π 01'15		morning rise	-9440 Oct 03 j 11:06	21° ϕ 06'46	
				retrograde	-9439 Jan 04 j 17:41	24° ϕ 20'42	
conjunction	-9446 Aug 23 j 20:42	23° Π 58'35	1°03'16	min. Earth dist.	-9439 Mar 22 j 04:16	22° ϕ 23'16	18.38832 AU
minimum elong	-9446 Aug 23 j 20:42	23° Π 58'35	1°03'49	opposition	-9439 Mar 23 j 06:04	22° ϕ 20'40	1°09'38
max. Earth dist.	-9446 Aug 24 j 09:12	24° Π 00'31	19.90333 AU	direct	-9439 Jun 07 j 16:38	20° ϕ 21'48	
morning rise	-9446 Sep 08 j 09:24	24° Π 55'51		evening set	-9439 Sep 06 j 18:46	23° ϕ 30'55	
retrograde	-9446 Dec 09 j 19:10	28° Π 13'24					
opposition	-9445 Feb 24 j 05:57	26° Π 12'32	1°10'58	conjunction	-9439 Sep 22 j 07:18	24° ϕ 26'24	1°02'05
min. Earth dist.	-9445 Feb 23 j 15:18	26° Π 14'02	17.94019 AU	minimum elong	-9439 Sep 22 j 07:18	24° ϕ 26'24	1°02'38
direct	-9445 May 12 j 05:47	24° Π 11'01		max. Earth dist.	-9439 Sep 23 j 10:37	24° ϕ 30'30	20.42289 AU
evening set	-9445 Aug 12 j 21:52	27° Π 28'14		morning rise	-9439 Oct 07 j 21:19	25° ϕ 22'07	

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Attention, astronomical year style is used: The year -9438 in astronomical counting style is the year 9439 BCE in historical counting style.

retrograde	-9438 Jan 09 j 06:33	28° \mathring{U} 35'24		min. Earth dist.	-9432 Apr 21 j 00:30	21° \mathring{O} 28'17	18.82223 AU
opposition	-9438 Mar 27 j 23:01	26° \mathring{U} 35'27	1°08'01	opposition	-9432 Apr 22 j 09:18	21° \mathring{O} 24'59	0°51'37
min. Earth dist.	-9438 Mar 26 j 20:18	26° \mathring{U} 38'09	18.45780 AU	direct	-9432 Jul 07 j 04:34	19° \mathring{O} 27'58	
direct	-9438 Jun 12 j 07:50	24° \mathring{U} 36'56		evening set	-9432 Oct 04 j 19:38	22° \mathring{O} 29'10	
evening set	-9438 Sep 11 j 03:46	27° \mathring{U} 44'45					
conjunction	-9438 Sep 26 j 16:24	28° \mathring{U} 40'01	1°00'30	conjunction	-9432 Oct 20 j 11:30	23° \mathring{O} 23'29	0°45'02
minimum elong	-9438 Sep 26 j 16:25	28° \mathring{U} 40'01	1°01'02	minimum elong	-9432 Oct 20 j 11:30	23° \mathring{O} 23'29	0°45'26
max. Earth dist.	-9438 Sep 27 j 19:50	28° \mathring{U} 44'07	20.49104 AU	max. Earth dist.	-9432 Oct 21 j 21:17	23° \mathring{O} 28'24	20.84819 AU
morning rise	-9438 Oct 12 j 07:07	29° \mathring{U} 35'33		morning rise	-9432 Nov 05 j 06:53	24° \mathring{O} 18'16	
retrograde	-9438 Oct 19 j 09:08	0° \mathring{O}		retrograde	-9431 Feb 07 j 13:00	27° \mathring{O} 27'31	
min. Earth dist.	-9437 Jan 13 j 20:03	2° \mathring{O} 48'13		min. Earth dist.	-9431 Apr 25 j 11:10	25° \mathring{O} 31'04	18.87470 AU
opposition	-9437 Mar 31 j 10:55	0° \mathring{O} 51'07	18.52464 AU	opposition	-9431 Apr 26 j 20:08	25° \mathring{O} 27'46	0°47'56
direct	-9437 Apr 01 j 14:58	0° \mathring{O} 48'18	1°06'03	direct	-9431 Jul 11 j 12:23	23° \mathring{O} 31'00	
evening set	-9437 Apr 22 j 04:01	30° \mathring{R} \mathring{U}		evening set	-9431 Oct 09 j 00:38	26° \mathring{O} 31'21	
conjunction	-9437 Jun 16 j 20:57	28° \mathring{U} 50'03		conjunction	-9431 Oct 24 j 17:26	27° \mathring{O} 25'35	0°41'38
minimum elong	-9437 Aug 08 j 16:38	0° \mathring{O}		minimum elong	-9431 Oct 24 j 17:26	27° \mathring{O} 25'35	0°42'00
max. Earth dist.	-9437 Sep 15 j 11:51	1° \mathring{O} 56'38		max. Earth dist.	-9431 Oct 26 j 04:51	27° \mathring{O} 30'43	20.89913 AU
morning rise	-9437 Oct 01 j 01:00	2° \mathring{O} 51'42	0°58'36	morning rise	-9431 Nov 09 j 13:37	28° \mathring{O} 20'18	
retrograde	-9437 Oct 01 j 01:01	2° \mathring{O} 51'42	0°59'06	retrograde	-9431 Dec 11 j 18:48	0° \mathring{O}	
max. Earth dist.	-9437 Oct 02 j 06:45	2° \mathring{O} 56'07	20.55649 AU	min. Earth dist.	-9430 Feb 11 j 22:45	1° \mathring{O} 29'06	
morning rise	-9437 Oct 16 j 16:12	3° \mathring{O} 47'05		opposition	-9430 Apr 18 j 09:57	30° \mathring{R} \mathring{O}	
retrograde	-9436 Jan 18 j 07:36	6° \mathring{O} 59'05		opposition	-9430 Apr 29 j 20:37	29° \mathring{O} 32'49	18.92395 AU
min. Earth dist.	-9436 Apr 04 j 01:01	5° \mathring{O} 02'07	18.58875 AU	direct	-9430 May 01 j 06:11	29° \mathring{O} 29'27	0°44'03
opposition	-9436 Apr 05 j 06:04	4° \mathring{O} 59'12	1°03'45	direct	-9430 Jul 15 j 20:46	27° \mathring{O} 32'56	
direct	-9436 Jun 20 j 10:13	3° \mathring{O} 01'13		evening set	-9430 Oct 03 j 10:04	0° \mathring{O}	
evening set	-9436 Sep 18 j 19:18	6° \mathring{O} 06'35		evening set	-9430 Oct 13 j 05:30	0° \mathring{O} 32'31	
conjunction	-9436 Oct 04 j 08:45	7° \mathring{O} 01'27	0°56'24	conjunction	-9430 Oct 28 j 22:55	1° \mathring{O} 26'40	0°38'02
minimum elong	-9436 Oct 04 j 08:45	7° \mathring{O} 01'27	0°56'54	minimum elong	-9430 Oct 28 j 22:56	1° \mathring{O} 26'40	0°38'21
max. Earth dist.	-9436 Oct 05 j 14:38	7° \mathring{O} 05'53	20.61939 AU	max. Earth dist.	-9430 Oct 30 j 09:35	1° \mathring{O} 31'40	20.94666 AU
morning rise	-9436 Oct 20 j 00:49	7° \mathring{O} 56'41		morning rise	-9430 Nov 13 j 20:14	2° \mathring{O} 21'20	
retrograde	-9435 Jan 21 j 19:57	11° \mathring{O} 08'06		retrograde	-9429 Feb 16 j 07:26	5° \mathring{O} 29'45	
opposition	-9435 Apr 09 j 20:17	9° \mathring{O} 08'11	1°01'08	min. Earth dist.	-9429 May 04 j 06:33	3° \mathring{O} 33'30	18.96964 AU
min. Earth dist.	-9435 Apr 08 j 14:12	9° \mathring{O} 11'13	18.65054 AU	opposition	-9429 May 05 j 15:41	3° \mathring{O} 30'11	0°39'57
direct	-9435 Jun 24 j 21:55	7° \mathring{O} 10'26		direct	-9429 Jul 20 j 02:57	1° \mathring{O} 33'53	
evening set	-9435 Sep 23 j 02:08	10° \mathring{O} 14'39		evening set	-9429 Oct 17 j 10:05	4° \mathring{O} 32'47	
conjunction	-9435 Oct 08 j 16:15	11° \mathring{O} 09'22	0°53'55	conjunction	-9429 Nov 02 j 04:31	5° \mathring{O} 26'53	0°34'15
minimum elong	-9435 Oct 08 j 16:15	11° \mathring{O} 09'22	0°54'23	minimum elong	-9429 Nov 02 j 04:31	5° \mathring{O} 26'53	0°34'34
max. Earth dist.	-9435 Oct 10 j 00:21	11° \mathring{O} 14'06	20.67994 AU	max. Earth dist.	-9429 Nov 03 j 16:22	5° \mathring{O} 32'03	20.99032 AU
morning rise	-9435 Oct 24 j 08:54	12° \mathring{O} 04'28		morning rise	-9429 Nov 18 j 02:40	6° \mathring{O} 21'30	
retrograde	-9434 Jan 01 j 09:38	15° \mathring{O}		retrograde	-9428 Feb 20 j 16:52	9° \mathring{O} 29'34	
min. Earth dist.	-9434 Jan 26 j 06:21	15° \mathring{O} 15'15		min. Earth dist.	-9428 May 07 j 15:08	7° \mathring{O} 33'26	19.01107 AU
opposition	-9434 Feb 20 j 14:22	15° \mathring{R} \mathring{O}		opposition	-9428 May 09 j 00:31	7° \mathring{O} 30'05	0°35'40
direct	-9434 Apr 13 j 02:14	13° \mathring{O} 18'30	18.70995 AU	direct	-9428 Jul 23 j 10:30	5° \mathring{O} 34'00	
opposition	-9434 Apr 14 j 09:19	13° \mathring{O} 15'22	0°58'14	evening set	-9428 Oct 20 j 14:42	8° \mathring{O} 32'17	
direct	-9434 Jun 29 j 09:07	11° \mathring{O} 17'52		conjunction	-9428 Nov 05 j 09:53	9° \mathring{O} 26'20	0°30'20
evening set	-9434 Sep 27 j 08:32	14° \mathring{O} 21'00		minimum elong	-9428 Nov 05 j 09:53	9° \mathring{O} 26'20	0°30'35
conjunction	-9434 Oct 08 j 13:03	15° \mathring{O}		max. Earth dist.	-9428 Nov 06 j 20:25	9° \mathring{O} 31'18	21.02945 AU
minimum elong	-9434 Oct 12 j 23:02	15° \mathring{O} 15'33	0°51'12	morning rise	-9428 Nov 21 j 09:15	10° \mathring{O} 20'57	
max. Earth dist.	-9434 Oct 12 j 23:03	15° \mathring{O} 15'34	0°51'39	retrograde	-9427 Feb 24 j 01:08	13° \mathring{O} 28'42	
morning rise	-9434 Oct 14 j 07:04	15° \mathring{O} 20'16	20.73828 AU	min. Earth dist.	-9427 May 12 j 00:37	11° \mathring{O} 32'31	19.04776 AU
retrograde	-9433 Jan 30 j 17:18	19° \mathring{O} 20'47		opposition	-9427 May 13 j 08:55	11° \mathring{O} 29'16	0°31'14
opposition	-9433 Apr 18 j 21:43	17° \mathring{O} 20'55	0°55'03	direct	-9427 Jul 27 j 15:27	9° \mathring{O} 33'21	
min. Earth dist.	-9433 Apr 17 j 13:56	17° \mathring{O} 24'06	18.76730 AU	evening set	-9427 Oct 24 j 19:13	12° \mathring{O} 31'06	
direct	-9433 Jul 03 j 18:53	15° \mathring{O} 23'38		conjunction	-9427 Nov 09 j 15:29	13° \mathring{O} 25'08	0°26'16
evening set	-9433 Oct 01 j 14:08	18° \mathring{O} 25'46		minimum elong	-9427 Nov 09 j 15:29	13° \mathring{O} 25'08	0°26'29
conjunction	-9433 Oct 17 j 05:27	19° \mathring{O} 20'12	0°48'14	max. Earth dist.	-9427 Nov 11 j 02:33	13° \mathring{O} 30'09	21.06345 AU
minimum elong	-9433 Oct 17 j 05:27	19° \mathring{O} 20'12	0°48'39	morning rise	-9427 Nov 25 j 15:42	14° \mathring{O} 19'44	
max. Earth dist.	-9433 Oct 18 j 15:34	19° \mathring{O} 25'11	20.79444 AU	retrograde	-9426 Feb 28 j 09:38	17° \mathring{O} 27'10	
morning rise	-9433 Nov 01 j 23:45	20° \mathring{O} 15'04		min. Earth dist.	-9426 May 16 j 08:21	15° \mathring{O} 31'01	19.07893 AU
retrograde	-9432 Feb 04 j 03:13	23° \mathring{O} 24'48		opposition	-9426 May 17 j 16:29	15° \mathring{O} 27'48	0°26'40
				direct	-9426 Jul 31 j 22:35	13° \mathring{O} 32'01	
				evening set	-9426 Oct 28 j 23:47	16° \mathring{O} 29'17	

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Attention, astronomical year style is used: The year -9426 in astronomical counting style is the year 9427 BCE in historical counting style.

conjunction	-9426 Nov 13 j 20:50	17° \mathbb{M} 23'18	0°22'05	min. Earth dist.	-9420 Jun 09 j 02:56	9° \mathbb{A} 10'26	19.15188 AU
minimum elong	-9426 Nov 13 j 20:50	17° \mathbb{M} 23'18	0°22'17	opposition	-9420 Jun 10 j 05:06	9° \mathbb{A} 07'47	-0°02'18
max. Earth dist.	-9426 Nov 15 j 06:04	17° \mathbb{M} 28'03	21.09185 AU	direct	-9420 Aug 24 j 02:30	7° \mathbb{A} 11'51	
morning rise	-9426 Nov 29 j 22:18	18° \mathbb{M} 17'55		evening set	-9420 Nov 21 j 02:49	10° \mathbb{A} 07'45	
retrograde	-9425 Mar 04 j 17:40	21° \mathbb{M} 25'06					
opposition	-9425 May 21 j 23:52	19° \mathbb{M} 25'43	0°21'59	conjunction	-9420 Dec 07 j 06:10	11° \mathbb{A} 02'05	-0°04'18
min. Earth dist.	-9425 May 20 j 17:10	19° \mathbb{M} 28'48	19.10447 AU	minimum elong	-9420 Dec 07 j 06:09	11° \mathbb{A} 02'05	0°04'21
direct	-9425 Aug 05 j 02:46	17° \mathbb{M} 30'00		behind sun begin	-9420 Dec 06 j 23:36	11° \mathbb{A} 01'11	
evening set	-9425 Nov 02 j 04:00	20° \mathbb{M} 26'51		behind sun end	-9420 Dec 07 j 12:41	11° \mathbb{A} 02'59	
				max. Earth dist.	-9420 Dec 08 j 09:32	11° \mathbb{A} 05'57	21.15008 AU
conjunction	-9425 Nov 18 j 02:15	21° \mathbb{M} 20'53	0°17'49	morning rise	-9420 Dec 23 j 14:05	11° \mathbb{A} 57'02	
minimum elong	-9425 Nov 18 j 02:15	21° \mathbb{M} 20'53	0°17'58	retrograde	-9419 Mar 28 j 11:13	15° \mathbb{A} 03'13	
max. Earth dist.	-9425 Nov 19 j 11:44	21° \mathbb{M} 25'40	21.11450 AU	min. Earth dist.	-9419 Jun 13 j 09:52	13° \mathbb{A} 05'57	19.14802 AU
morning rise	-9425 Dec 04 j 04:38	22° \mathbb{M} 15'32		opposition	-9419 Jun 14 j 10:04	13° \mathbb{A} 03'31	-0°07'11
retrograde	-9424 Mar 08 j 01:03	25° \mathbb{M} 22'27		direct	-9419 Aug 28 j 05:24	11° \mathbb{A} 07'28	
min. Earth dist.	-9424 May 24 j 00:13	23° \mathbb{M} 26'06	19.12413 AU	evening set	-9419 Nov 25 j 07:53	14° \mathbb{A} 03'27	
opposition	-9424 May 25 j 06:37	23° \mathbb{M} 23'03	0°17'13				
direct	-9424 Aug 08 j 09:18	21° \mathbb{M} 27'21		conjunction	-9419 Dec 11 j 12:27	14° \mathbb{A} 57'54	-0°08'42
evening set	-9424 Nov 05 j 08:31	24° \mathbb{M} 23'51		minimum elong	-9419 Dec 11 j 12:27	14° \mathbb{A} 57'54	0°08'47
				behind sun begin	-9419 Dec 11 j 06:42	14° \mathbb{A} 57'06	
conjunction	-9424 Nov 21 j 07:38	25° \mathbb{M} 17'55	0°13'29	behind sun end	-9419 Dec 11 j 18:11	14° \mathbb{A} 58'41	
minimum elong	-9424 Nov 21 j 07:38	25° \mathbb{M} 17'55	0°13'36	max. Earth dist.	-9419 Dec 12 j 15:38	15° \mathbb{A} 01'44	21.14419 AU
behind sun begin	-9424 Nov 21 j 04:00	25° \mathbb{M} 17'25		morning rise	-9419 Dec 27 j 21:12	15° \mathbb{A} 52'56	
behind sun end	-9424 Nov 21 j 11:15	25° \mathbb{M} 18'25		retrograde	-9418 Apr 01 j 18:48	18° \mathbb{A} 59'06	
max. Earth dist.	-9424 Nov 22 j 15:04	25° \mathbb{M} 22'23	21.13142 AU	opposition	-9418 Jun 18 j 14:36	16° \mathbb{A} 59'23	-0°12'03
morning rise	-9424 Dec 07 j 11:17	26° \mathbb{M} 12'35		min. Earth dist.	-9418 Jun 17 j 14:56	17° \mathbb{A} 01'47	19.14005 AU
retrograde	-9423 Mar 12 j 08:37	29° \mathbb{M} 19'17		direct	-9418 Sep 01 j 09:46	15° \mathbb{A} 03'16	
min. Earth dist.	-9423 May 28 j 08:12	27° \mathbb{M} 22'42	19.13833 AU	evening set	-9418 Nov 29 j 13:27	17° \mathbb{A} 59'25	
opposition	-9423 May 29 j 12:51	27° \mathbb{M} 19'50	0°12'23				
direct	-9423 Aug 12 j 13:05	25° \mathbb{M} 24'05		conjunction	-9418 Dec 15 j 18:53	18° \mathbb{A} 53'59	-0°13'04
evening set	-9423 Nov 09 j 12:53	28° \mathbb{M} 20'19		minimum elong	-9418 Dec 15 j 18:53	18° \mathbb{A} 53'59	0°13'11
				behind sun begin	-9418 Dec 15 j 15:01	18° \mathbb{A} 53'27	
conjunction	-9423 Nov 25 j 13:13	29° \mathbb{M} 14'26	0°09'06	behind sun end	-9418 Dec 15 j 22:45	18° \mathbb{A} 54'31	
minimum elong	-9423 Nov 25 j 13:13	29° \mathbb{M} 14'26	0°09'10	max. Earth dist.	-9418 Dec 16 j 19:35	18° \mathbb{A} 57'28	21.13429 AU
behind sun begin	-9423 Nov 25 j 07:37	29° \mathbb{M} 13'40		morning rise	-9417 Jan 01 j 04:49	19° \mathbb{A} 49'09	
behind sun end	-9423 Nov 25 j 18:50	29° \mathbb{M} 15'13		retrograde	-9417 Apr 06 j 01:13	22° \mathbb{A} 55'22	
max. Earth dist.	-9423 Nov 26 j 20:46	29° \mathbb{M} 18'55	21.14301 AU	opposition	-9417 Jun 22 j 19:17	20° \mathbb{A} 55'38	-0°16'52
	-9423 Dec 08 j 23:57	0° \mathbb{A}		min. Earth dist.	-9417 Jun 21 j 21:51	20° \mathbb{A} 57'49	19.12812 AU
morning rise	-9423 Dec 11 j 17:48	0° \mathbb{A} 09'09		direct	-9417 Sep 05 j 12:11	18° \mathbb{A} 59'24	
retrograde	-9422 Mar 16 j 15:13	3° \mathbb{A} 15'38		evening set	-9417 Dec 03 j 19:11	21° \mathbb{A} 55'49	
opposition	-9422 Jun 02 j 18:36	1° \mathbb{A} 16'07	0°07'31				
min. Earth dist.	-9422 Jun 01 j 14:17	1° \mathbb{A} 18'58	19.14732 AU	conjunction	-9417 Dec 20 j 01:53	22° \mathbb{A} 50'31	-0°17'24
	-9422 Jul 07 j 02:44	30° \mathbb{R} \mathbb{M}		minimum elong	-9417 Dec 20 j 01:52	22° \mathbb{A} 50'31	0°17'33
direct	-9422 Aug 16 j 18:26	29° \mathbb{M} 20'20		max. Earth dist.	-9417 Dec 21 j 02:05	22° \mathbb{A} 53'56	21.12029 AU
	-9422 Sep 25 j 07:16	0° \mathbb{A}		morning rise	-9416 Jan 05 j 12:39	23° \mathbb{A} 45'49	
evening set	-9422 Nov 13 j 17:21	2° \mathbb{A} 16'22		retrograde	-9416 Apr 09 j 09:37	26° \mathbb{A} 52'08	
				opposition	-9416 Jun 25 j 23:48	24° \mathbb{A} 52'24	-0°21'38
conjunction	-9422 Nov 29 j 18:32	3° \mathbb{A} 10'31	0°04'42	min. Earth dist.	-9416 Jun 25 j 03:11	24° \mathbb{A} 54'30	19.11183 AU
minimum elong	-9422 Nov 29 j 18:32	3° \mathbb{A} 10'31	0°04'45	direct	-9416 Sep 08 j 16:40	22° \mathbb{A} 56'04	
behind sun begin	-9422 Nov 29 j 12:03	3° \mathbb{A} 09'38		evening set	-9416 Dec 07 j 01:49	25° \mathbb{A} 52'49	
behind sun end	-9422 Nov 30 j 01:01	3° \mathbb{A} 11'25					
max. Earth dist.	-9422 Dec 01 j 00:04	3° \mathbb{A} 14'43	21.14966 AU	conjunction	-9416 Dec 23 j 09:23	26° \mathbb{A} 47'41	-0°21'40
morning rise	-9422 Dec 16 j 00:20	4° \mathbb{A} 05'19		minimum elong	-9416 Dec 23 j 09:23	26° \mathbb{A} 47'41	0°21'52
retrograde	-9421 Mar 20 j 21:56	7° \mathbb{A} 11'39		max. Earth dist.	-9416 Dec 24 j 06:38	26° \mathbb{A} 50'40	21.10178 AU
min. Earth dist.	-9421 Jun 05 j 21:33	5° \mathbb{A} 14'44	19.15175 AU	morning rise	-9415 Jan 08 j 21:15	27° \mathbb{A} 43'07	
opposition	-9421 Jun 07 j 00:07	5° \mathbb{A} 12'03	0°02'37		-9415 Feb 26 j 18:55	0° \mathbb{M}	
direct	-9421 Aug 20 j 21:57	3° \mathbb{A} 16'12		retrograde	-9415 Apr 13 j 16:39	0° \mathbb{M} 49'35	
evening set	-9421 Nov 17 j 21:54	6° \mathbb{A} 12'07			-9415 May 30 j 11:51	30° \mathbb{R} \mathbb{A}	
				min. Earth dist.	-9415 Jun 29 j 10:26	28° \mathbb{A} 51'40	19.09098 AU
conjunction	-9421 Dec 04 j 00:19	7° \mathbb{A} 06'22	0°00'13	opposition	-9415 Jun 30 j 04:22	28° \mathbb{A} 49'50	-0°26'18
minimum elong	-9421 Dec 04 j 00:18	7° \mathbb{A} 06'22	0°00'12	direct	-9415 Sep 12 j 19:22	26° \mathbb{A} 53'22	
behind sun begin	-9421 Dec 03 j 17:44	7° \mathbb{A} 05'27		evening set	-9415 Dec 11 j 08:51	29° \mathbb{A} 50'34	
behind sun end	-9421 Dec 04 j 06:53	7° \mathbb{A} 07'16			-9415 Dec 14 j 05:05	0° \mathbb{M}	
max. Earth dist.	-9421 Dec 05 j 05:56	7° \mathbb{A} 10'33	21.15194 AU				
morning rise	-9421 Dec 20 j 07:00	8° \mathbb{A} 01'13		conjunction	-9415 Dec 27 j 17:36	0° \mathbb{M} 45'36	-0°25'50
desc. node	-9421 Dec 21 j 06:21	8° \mathbb{A} 04'25		minimum elong	-9415 Dec 27 j 17:36	0° \mathbb{M} 45'36	0°26'03
retrograde	-9420 Mar 24 j 04:52	11° \mathbb{A} 07'26		max. Earth dist.	-9415 Dec 28 j 13:50	0° \mathbb{M} 48'27	21.07849 AU

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Attention, astronomical year style is used: The year -9414 in astronomical counting style is the year 9415 BCE in historical counting style.

morning rise	-9414 Jan 13 j 06:12	1°M.41'12	direct	-9408 Oct 10 j 08:24	24°M.59'04	
retrograde	-9414 Apr 18 j 01:42	4°M.47'50	evening set	-9407 Jan 09 j 04:23	28°M.01'13	
opposition	-9414 Jul 04 j 09:00	2°M.48'05 -0°30'52				
min. Earth dist.	-9414 Jul 03 j 16:12	2°M.49'48 19.06507 AU	conjunction	-9407 Jan 25 j 19:24	28°M.57'47 -0°50'48	
direct	-9414 Sep 17 j 00:12	0°M.51'28	minimum elong	-9407 Jan 25 j 19:24	28°M.57'47 0°51'15	
evening set	-9414 Dec 15 j 16:31	3°M.49'09	max. Earth dist.	-9407 Jan 25 j 21:13	28°M.58'03 20.77267 AU	
			morning rise	-9407 Feb 11 j 13:06	29°M.54'45	
conjunction	-9413 Jan 01 j 02:05	4°M.44'22 -0°29'54		-9407 Feb 13 j 02:51	0°J	
minimum elong	-9413 Jan 01 j 02:04	4°M.44'22 0°30'10	retrograde	-9407 May 16 j 18:56	3°J.03'29	
max. Earth dist.	-9413 Jan 01 j 18:59	4°M.46'45 21.04997 AU	opposition	-9407 Jul 31 j 23:06	1°J.03'02 -0°57'50	
morning rise	-9413 Jan 17 j 15:41	5°M.40'08	min. Earth dist.	-9407 Jul 31 j 22:31	1°J.03'06 18.74347 AU	
retrograde	-9413 Apr 22 j 09:30	8°M.47'01		-9407 Aug 27 j 11:13	30°R.M.	
opposition	-9413 Jul 08 j 13:58	6°M.47'13 -0°35'17	direct	-9407 Oct 14 j 14:09	29°M.04'10	
min. Earth dist.	-9413 Jul 08 j 00:06	6°M.48'38 19.03388 AU		-9407 Nov 30 j 19:19	0°J	
direct	-9413 Sep 21 j 03:35	4°M.50'23	evening set	-9406 Jan 13 j 16:45	2°J.07'19	
evening set	-9413 Dec 20 j 00:48	7°M.48'39				
			conjunction	-9406 Jan 30 j 08:40	3°J.04'09 -0°53'32	
conjunction	-9412 Jan 05 j 11:32	8°M.44'04 -0°33'50	minimum elong	-9406 Jan 30 j 08:39	3°J.04'09 0°54'01	
minimum elong	-9412 Jan 05 j 11:32	8°M.44'04 0°34'07	max. Earth dist.	-9406 Jan 30 j 08:56	3°J.04'11 20.71349 AU	
max. Earth dist.	-9412 Jan 06 j 02:59	8°M.46'15 21.01604 AU	morning rise	-9406 Feb 16 j 02:43	4°J.01'20	
morning rise	-9412 Jan 22 j 01:48	9°M.40'00	retrograde	-9406 May 21 j 07:07	7°J.10'31	
retrograde	-9412 Apr 25 j 19:08	12°M.47'07	opposition	-9406 Aug 05 j 05:44	5°J.09'57 -1°00'44	
opposition	-9412 Jul 11 j 18:51	10°M.47'16 -0°39'34	min. Earth dist.	-9406 Aug 05 j 06:10	5°J.09'54 18.68315 AU	
min. Earth dist.	-9412 Jul 11 j 06:22	10°M.48'33 18.99711 AU	direct	-9406 Oct 18 j 22:05	3°J.10'42	
direct	-9412 Sep 24 j 09:18	8°M.50'11	evening set	-9405 Jan 18 j 05:55	6°J.14'54	
evening set	-9412 Dec 23 j 09:55	11°M.49'06				
			conjunction	-9405 Feb 03 j 22:24	7°J.12'01 -0°56'01	
conjunction	-9411 Jan 08 j 21:28	12°M.44'43 -0°37'37	minimum elong	-9405 Feb 03 j 22:23	7°J.12'00 0°56'30	
minimum elong	-9411 Jan 08 j 21:28	12°M.44'43 0°37'57	max. Earth dist.	-9405 Feb 03 j 19:29	7°J.11'35 20.65211 AU	
max. Earth dist.	-9411 Jan 09 j 09:16	12°M.46'23 20.97655 AU	morning rise	-9405 Feb 20 j 16:58	8°J.09'26	
morning rise	-9411 Jan 25 j 12:40	13°M.40'51	retrograde	-9405 May 25 j 18:22	11°J.19'06	
	-9411 Feb 19 j 22:54	15°M.	opposition	-9405 Aug 09 j 13:01	9°J.18'26 -1°03'21	
retrograde	-9411 Apr 30 j 03:27	16°M.48'14	min. Earth dist.	-9405 Aug 09 j 16:24	9°J.18'05 18.62091 AU	
	-9411 Jul 11 j 06:10	15°R.M.	direct	-9405 Oct 23 j 05:11	7°J.18'49	
opposition	-9411 Jul 16 j 00:08	14°M.48'17 -0°43'39	evening set	-9404 Jan 22 j 19:59	10°J.24'09	
min. Earth dist.	-9411 Jul 15 j 14:49	14°M.49'14 18.95495 AU				
direct	-9411 Sep 28 j 13:23	12°M.50'54	conjunction	-9404 Feb 08 j 13:15	11°J.21'32 -0°58'13	
	-9411 Dec 12 j 01:18	15°M.	minimum elong	-9404 Feb 08 j 13:15	11°J.21'32 0°58'44	
evening set	-9411 Dec 27 j 19:26	15°M.50'30	max. Earth dist.	-9404 Feb 08 j 08:38	11°J.20'52 20.58903 AU	
			morning rise	-9404 Feb 25 j 08:06	12°J.19'13	
conjunction	-9410 Jan 13 j 08:03	16°M.46'21 -0°41'13	retrograde	-9404 May 29 j 07:34	15°J.29'23	
minimum elong	-9410 Jan 13 j 08:03	16°M.46'21 0°41'35	opposition	-9404 Aug 12 j 20:35	13°J.28'39 -1°05'39	
max. Earth dist.	-9410 Jan 13 j 18:16	16°M.47'48 20.93186 AU	min. Earth dist.	-9404 Aug 13 j 01:02	13°J.28'11 18.55697 AU	
morning rise	-9410 Jan 29 j 23:48	17°M.42'40	direct	-9404 Oct 26 j 14:04	11°J.28'40	
retrograde	-9410 May 04 j 13:37	20°M.50'20	evening set	-9403 Jan 26 j 11:11	14°J.35'12	
opposition	-9410 Jul 20 j 05:25	18°M.50'17 -0°47'33				
min. Earth dist.	-9410 Jul 19 j 21:26	18°M.51'06 18.90777 AU	conjunction	-9403 Feb 12 j 04:55	15°J.32'53 -1°00'08	
direct	-9410 Oct 02 j 20:10	16°M.52'34	minimum elong	-9403 Feb 12 j 04:55	15°J.32'53 1°00'40	
evening set	-9409 Jan 01 j 05:45	19°M.52'56	max. Earth dist.	-9403 Feb 11 j 21:06	15°J.31'45 20.52427 AU	
			morning rise	-9403 Mar 01 j 00:05	16°J.30'48	
conjunction	-9409 Jan 17 j 19:06	20°M.49'01 -0°44'38	retrograde	-9403 Jun 02 j 20:26	19°J.41'31	
minimum elong	-9409 Jan 17 j 19:05	20°M.49'01 0°45'01	opposition	-9403 Aug 17 j 05:03	17°J.40'44 -1°07'37	
max. Earth dist.	-9409 Jan 18 j 01:50	20°M.49'58 20.88249 AU	min. Earth dist.	-9403 Aug 17 j 12:33	17°J.39'57 18.49152 AU	
morning rise	-9409 Feb 03 j 11:39	21°M.45'32	direct	-9403 Oct 30 j 22:31	15°J.40'24	
retrograde	-9409 May 08 j 22:14	24°M.53'32	evening set	-9402 Jan 31 j 03:02	18°J.48'12	
opposition	-9409 Jul 24 j 11:03	22°M.53'20 -0°51'13				
min. Earth dist.	-9409 Jul 24 j 06:11	22°M.53'50 18.85642 AU	conjunction	-9402 Feb 16 j 21:22	19°J.46'10 -1°01'44	
direct	-9409 Oct 07 j 00:49	20°M.55'15	minimum elong	-9402 Feb 16 j 21:22	19°J.46'10 1°02'17	
evening set	-9408 Jan 05 j 16:32	23°M.56'28	max. Earth dist.	-9402 Feb 16 j 11:40	19°J.44'46 20.45806 AU	
			morning rise	-9402 Mar 05 j 16:41	20°J.44'20	
conjunction	-9408 Jan 22 j 06:56	24°M.52'47 -0°47'50	retrograde	-9402 Jun 07 j 11:00	23°J.55'38	
minimum elong	-9408 Jan 22 j 06:55	24°M.52'47 0°48'16	opposition	-9402 Aug 21 j 14:01	21°J.54'49 -1°09'15	
max. Earth dist.	-9408 Jan 22 j 12:09	24°M.53'32 20.82928 AU	min. Earth dist.	-9402 Aug 21 j 22:38	21°J.53'54 18.42450 AU	
morning rise	-9408 Feb 07 j 24:00	25°M.49'32	direct	-9402 Nov 04 j 09:18	19°J.54'07	
retrograde	-9408 May 12 j 09:25	28°M.57'52	evening set	-9401 Feb 04 j 20:07	23°J.03'14	
opposition	-9408 Jul 27 j 16:52	26°M.57'32 -0°54'39				
min. Earth dist.	-9408 Jul 27 j 13:15	26°M.57'55 18.80140 AU	conjunction	-9401 Feb 21 j 14:49	24°J.01'30 -1°03'00	

Attention, astronomical year style is used: The year -9401 in astronomical counting style is the year 9402 BCE in historical counting style.

minimum elong	-9401 Feb 21 j 14:49	24° \mathring{A} 01'30	1°03'35
max. Earth dist.	-9401 Feb 21 j 02:01	23° \mathring{A} 59'38	20.39016 AU
morning rise	-9401 Mar 10 j 10:15	24° \mathring{A} 59'55	
retrograde	-9401 Jun 12 j 00:45	28° \mathring{A} 11'49	
opposition	-9401 Aug 25 j 23:48	26° \mathring{A} 10'57	-1°10'30
min. Earth dist.	-9401 Aug 26 j 11:40	26° \mathring{A} 09'41	18.35583 AU
direct	-9401 Nov 08 j 19:15	24° \mathring{A} 09'52	
evening set	-9400 Feb 09 j 14:08	27° \mathring{A} 20'21	

conjunction	-9400 Feb 26 j 09:18	28° \mathring{A} 18'55	-1°03'56
minimum elong	-9400 Feb 26 j 09:18	28° \mathring{A} 18'55	1°04'30
max. Earth dist.	-9400 Feb 25 j 18:07	28° \mathring{A} 16'42	20.32059 AU
morning rise	-9400 Mar 14 j 04:47	29° \mathring{A} 17'35	
	-9400 Mar 26 j 21:21	0° \mathring{B}	
retrograde	-9400 Jun 15 j 16:45	2° \mathring{B} 30'06	
opposition	-9400 Aug 29 j 10:19	0° \mathring{B} 29'10	-1°11'22
min. Earth dist.	-9400 Aug 29 j 23:29	0° \mathring{B} 27'45	18.28527 AU
	-9400 Sep 09 j 22:40	30° \mathring{R} \mathring{A}	
direct	-9400 Nov 12 j 08:26	28° \mathring{A} 27'41	
	-9399 Jan 12 j 20:16	0° \mathring{B}	
evening set	-9399 Feb 13 j 09:16	1° \mathring{B} 39'32	
max. Earth dist.	-9399 Mar 01 j 10:29	2° \mathring{B} 35'44	20.24893 AU

conjunction	-9399 Mar 02 j 04:40	2° \mathring{B} 38'24	-1°04'31
minimum elong	-9399 Mar 02 j 04:40	2° \mathring{B} 38'24	1°05'05
morning rise	-9399 Mar 19 j 00:02	3° \mathring{B} 37'19	
retrograde	-9399 Jun 20 j 07:26	6° \mathring{B} 50'26	
opposition	-9399 Sep 02 j 21:47	4° \mathring{B} 49'26	-1°11'49
min. Earth dist.	-9399 Sep 03 j 14:10	4° \mathring{B} 47'40	18.21279 AU
direct	-9399 Nov 16 j 20:27	2° \mathring{B} 47'32	