

opposition	11100 Feb 14 00:01	0° <u>7</u> 16'17	-1°32'21	minimum elong	11105 Oct 22 07:13	8° <u>7</u> 59'58	0°52'23
min. Earth dist.	11100 Feb 13 16:01	0° <u>7</u> 17'48	8.69972 AU	max. Earth dist.	11105 Oct 22 09:54	9° <u>7</u> 00'48	10.47807 AU
	11100 Feb 17 13:02	30° <u>8</u> 00'		morning rise	11105 Nov 09 01:11	11° <u>7</u> 10'59	
direct	11100 Apr 23 14:15	26° <u>8</u> 56'04			11105 Dec 12 22:33	15° <u>7</u>	
	11100 Jun 23 23:31	0° <u>7</u>		retrograde	11106 Feb 21 16:33	18° <u>7</u> 56'45	
evening set	11100 Aug 02 00:45	4° <u>7</u> 13'46		opposition	11106 May 01 08:12	15° <u>7</u> 30'32	1°18'03
				min. Earth dist.	11106 May 01 06:43	15° <u>7</u> 30'50	8.45783 AU
conjunction	11100 Aug 19 03:13	6° <u>7</u> 18'06	-1°05'38		11106 May 07 18:21	15° <u>8</u>	
minimum elong	11100 Aug 19 03:15	6° <u>7</u> 18'06	1°05'57	direct	11106 Jul 08 01:27	12° <u>7</u> 06'17	
max. Earth dist.	11100 Aug 19 13:05	6° <u>7</u> 21'06	10.68378 AU		11106 Sep 04 22:33	15° <u>7</u>	
morning rise	11100 Sep 05 08:53	8° <u>7</u> 23'22		evening set	11106 Oct 18 04:17	19° <u>7</u> 43'15	
retrograde	11100 Dec 18 19:26	15° <u>7</u> 57'10					
opposition	11101 Feb 26 18:51	12° <u>7</u> 33'06	-1°07'57	conjunction	11106 Nov 04 21:21	21° <u>7</u> 54'28	1°13'07
min. Earth dist.	11101 Feb 26 10:37	12° <u>7</u> 34'41	8.66710 AU	minimum elong	11106 Nov 04 21:19	21° <u>7</u> 54'27	1°13'35
direct	11101 May 06 04:15	9° <u>7</u> 12'29		max. Earth dist.	11106 Nov 04 22:09	21° <u>7</u> 54'42	10.43785 AU
evening set	11101 Aug 14 14:01	16° <u>7</u> 31'38		morning rise	11106 Nov 22 16:02	24° <u>7</u> 06'13	
					11107 Jan 18 15:50	0° <u>8</u>	
conjunction	11101 Aug 31 19:30	18° <u>7</u> 37'07	-0°44'21	retrograde	11107 Mar 07 03:29	1° <u>8</u> 53'46	
minimum elong	11101 Aug 31 19:32	18° <u>7</u> 37'08	0°44'32		11107 Apr 24 10:27	30° <u>8</u>	
max. Earth dist.	11101 Sep 01 05:27	18° <u>7</u> 40'09	10.64847 AU	opposition	11107 May 14 10:53	28° <u>8</u> 27'32	1°42'09
morning rise	11101 Sep 18 04:13	20° <u>8</u> 43'36		min. Earth dist.	11107 May 14 10:50	28° <u>8</u> 27'32	8.42020 AU
retrograde	11101 Dec 31 20:38	28° <u>8</u> 19'50		direct	11107 Jul 21 03:44	25° <u>8</u> 02'30	
opposition	11102 Mar 11 14:19	24° <u>8</u> 55'07	-0°40'13		11107 Oct 08 11:22	0° <u>8</u>	
min. Earth dist.	11102 Mar 11 06:26	24° <u>8</u> 56'39	8.62900 AU	evening set	11107 Oct 31 21:10	2° <u>8</u> 44'00	
direct	11102 May 18 17:27	21° <u>8</u> 33'57					
evening set	11102 Aug 27 07:26	28° <u>8</u> 55'23		conjunction	11107 Nov 18 15:06	4° <u>8</u> 55'59	1°30'38
	11102 Sep 05 04:53	0° <u>8</u>		minimum elong	11107 Nov 18 15:04	4° <u>8</u> 55'59	1°31'11
				max. Earth dist.	11107 Nov 18 13:26	4° <u>8</u> 55'28	10.40269 AU
conjunction	11102 Sep 13 15:51	1° <u>8</u> 02'06	-0°20'52	morning rise	11107 Dec 06 09:57	7° <u>8</u> 08'19	
minimum elong	11102 Sep 13 15:52	1° <u>8</u> 02'06	0°20'55	retrograde	11108 Mar 19 16:19	14° <u>8</u> 57'04	
max. Earth dist.	11102 Sep 14 00:31	1° <u>8</u> 04'45	10.60843 AU	opposition	11108 May 26 15:31	11° <u>8</u> 31'00	2°01'11
morning rise	11102 Oct 01 03:33	3° <u>8</u> 09'49		min. Earth dist.	11108 May 26 17:30	11° <u>8</u> 30'36	8.38867 AU
retrograde	11103 Jan 13 22:19	10° <u>8</u> 48'32		direct	11108 Aug 02 08:45	8° <u>8</u> 05'15	
opposition	11103 Mar 24 10:36	7° <u>8</u> 23'17	-0°10'22	evening set	11108 Nov 13 17:38	15° <u>8</u> 51'05	
min. Earth dist.	11103 Mar 24 04:06	7° <u>8</u> 24'33	8.58712 AU				
direct	11103 May 31 09:30	4° <u>8</u> 01'25		conjunction	11108 Dec 01 11:58	18° <u>8</u> 03'38	1°43'33
asc. node	11103 Jul 29 17:36	6° <u>8</u> 56'15		minimum elong	11108 Dec 01 11:56	18° <u>8</u> 03'37	1°44'10
evening set	11103 Sep 09 05:23	11° <u>8</u> 25'56		max. Earth dist.	11108 Dec 01 07:21	18° <u>8</u> 02'11	10.37467 AU
				morning rise	11108 Dec 19 06:35	20° <u>8</u> 16'20	
conjunction	11103 Sep 26 16:28	13° <u>8</u> 33'54	0°03'54	retrograde	11109 Apr 02 05:16	28° <u>8</u> 05'36	
minimum elong	11103 Sep 26 16:28	13° <u>8</u> 33'54	0°03'59	opposition	11109 Jun 08 21:57	24° <u>8</u> 39'52	2°14'01
behind sun begin	11103 Sep 26 09:22	13° <u>8</u> 31'44		min. Earth dist.	11109 Jun 09 02:08	24° <u>8</u> 39'01	8.36512 AU
behind sun end	11103 Sep 26 23:34	13° <u>8</u> 36'03		direct	11109 Aug 15 18:18	21° <u>8</u> 13'30	
max. Earth dist.	11103 Sep 26 22:46	13° <u>8</u> 35'48	10.56541 AU	evening set	11109 Nov 27 16:37	29° <u>8</u> 03'08	
morning rise	11103 Oct 14 06:53	15° <u>8</u> 42'50			11109 Dec 05 08:16	0° <u>8</u>	
retrograde	11104 Jan 27 02:34	23° <u>8</u> 24'02					
opposition	11104 Apr 05 08:16	19° <u>8</u> 58'21	0°20'18	conjunction	11109 Dec 15 10:59	1° <u>8</u> 16'03	1°51'07
min. Earth dist.	11104 Apr 05 03:50	19° <u>8</u> 59'13	8.54330 AU	minimum elong	11109 Dec 15 10:59	1° <u>8</u> 16'03	1°51'45
direct	11104 Jun 12 03:45	16° <u>8</u> 35'43		max. Earth dist.	11109 Dec 15 03:52	1° <u>8</u> 13'49	10.35543 AU
evening set	11104 Sep 21 08:00	24° <u>8</u> 03'56		morning rise	11110 Jan 02 05:01	3° <u>8</u> 28'54	
				retrograde	11110 Apr 15 16:58	11° <u>8</u> 17'55	
conjunction	11104 Oct 08 21:30	26° <u>8</u> 13'05	0°28'32	opposition	11110 Jun 22 05:56	7° <u>8</u> 52'41	2°19'51
minimum elong	11104 Oct 08 21:29	26° <u>8</u> 13'04	0°28'46	min. Earth dist.	11110 Jun 22 11:50	7° <u>8</u> 51'30	8.35078 AU
max. Earth dist.	11104 Oct 09 01:49	26° <u>8</u> 14'24	10.52128 AU	direct	11110 Aug 29 07:25	4° <u>8</u> 25'53	
morning rise	11104 Oct 26 14:00	28° <u>8</u> 23'08		evening set	11110 Dec 11 17:00	12° <u>8</u> 18'28	
	11104 Nov 09 06:10	0° <u>8</u>					
retrograde	11105 Feb 08 08:57	6° <u>8</u> 06'45		conjunction	11110 Dec 29 11:04	14° <u>8</u> 31'33	1°52'49
opposition	11105 Apr 18 07:28	2° <u>8</u> 40'44	0°50'16	minimum elong	11110 Dec 29 11:05	14° <u>8</u> 31'33	1°53'27
min. Earth dist.	11105 Apr 18 04:37	2° <u>8</u> 41'17	8.49952 AU	max. Earth dist.	11110 Dec 29 02:19	14° <u>8</u> 28'47	10.34596 AU
	11105 May 27 10:28	30° <u>8</u> 00'		morning rise	11111 Jan 16 04:03	16° <u>8</u> 44'18	
direct	11105 Jun 25 00:34	29° <u>8</u> 17'17		retrograde	11111 Apr 29 05:55	24° <u>8</u> 32'17	
	11105 Jul 23 09:34	0° <u>8</u>		opposition	11111 Jul 05 15:07	21° <u>8</u> 07'39	2°18'16
evening set	11105 Oct 04 15:42	6° <u>8</u> 49'44		min. Earth dist.	11111 Jul 05 21:51	21° <u>8</u> 06'18	8.34645 AU
				direct	11111 Sep 11 21:32	17° <u>8</u> 40'36	
conjunction	11105 Oct 22 07:15	8° <u>8</u> 59'58	0°52'02	evening set	11111 Dec 25 17:25	25° <u>8</u> 35'03	

conjunction	11112 Jan 12 10:56	27° \mathfrak{Z} 48'04	1°48'31	desc. node	11117 Nov 23 20:30	6° Υ 13'41	
minimum elong	11112 Jan 12 10:58	27° \mathfrak{Z} 48'04	1°49'08	direct	11117 Nov 30 17:39	6° Υ 11'17	
max. Earth dist.	11112 Jan 12 01:41	27° \mathfrak{Z} 45'09	10.34687 AU	evening set	11118 Mar 15 12:26	13° Υ 55'55	
morning rise	11112 Jan 30 02:33	0° \approx 00'32					
	11112 Jan 30 00:48	0° \approx		conjunction	11118 Apr 01 19:14	16° Υ 04'09	-0°08'34
retrograde	11112 May 11 18:29	7° \approx 46'45		minimum elong	11118 Apr 01 19:14	16° Υ 04'09	0°08'41
opposition	11112 Jul 18 01:11	4° \approx 22'43	2°09'20	behind sun begin	11118 Apr 01 13:04	16° Υ 02'15	
min. Earth dist.	11112 Jul 18 08:12	4° \approx 21'19	8.35240 AU	behind sun end	11118 Apr 02 01:25	16° Υ 06'04	
direct	11112 Sep 24 12:52	0° \approx 55'35		max. Earth dist.	11118 Apr 01 11:49	16° Υ 01'52	10.51653 AU
evening set	11113 Jan 07 16:35	8° \approx 50'45		morning rise	11118 Apr 18 22:54	18° Υ 11'30	
				retrograde	11118 Jul 29 01:29	25° Υ 41'33	
conjunction	11113 Jan 25 09:16	11° \approx 03'27	1°38'29	opposition	11118 Oct 05 06:53	22° Υ 20'37	-0°25'43
minimum elong	11113 Jan 25 09:18	11° \approx 03'28	1°39'01	min. Earth dist.	11118 Oct 05 11:44	22° Υ 19'41	8.53572 AU
max. Earth dist.	11113 Jan 24 23:43	11° \approx 00'27	10.35807 AU	direct	11118 Dec 14 02:31	18° Υ 56'01	
morning rise	11113 Feb 11 23:20	13° \approx 15'27		evening set	11119 Mar 28 13:45	26° Υ 37'09	
	11113 Feb 26 10:48	15° \approx					
retrograde	11113 May 25 05:03	20° \approx 59'12		conjunction	11119 Apr 14 17:51	28° Υ 44'11	-0°33'07
opposition	11113 Jul 31 11:40	17° \approx 35'50	1°53'35	minimum elong	11119 Apr 14 17:50	28° Υ 44'11	0°33'23
min. Earth dist.	11113 Jul 31 19:14	17° \approx 34'20	8.36818 AU	max. Earth dist.	11119 Apr 14 12:41	28° Υ 42'35	10.55487 AU
	11113 Sep 06 12:53	15° \mathfrak{K}			11119 Apr 24 22:28	0° \mathfrak{B}	
direct	11113 Oct 08 05:41	14° \approx 08'46		morning rise	11119 May 01 19:05	0° \mathfrak{B} 50'26	
	11113 Nov 08 17:37	15° \approx		retrograde	11119 Aug 10 23:38	8° \mathfrak{B} 18'46	
evening set	11114 Jan 21 13:41	22° \approx 03'28		opposition	11119 Oct 18 12:23	4° \mathfrak{B} 58'02	-0°55'10
				min. Earth dist.	11119 Oct 18 15:53	4° \mathfrak{B} 57'21	8.57391 AU
conjunction	11114 Feb 08 05:02	24° \approx 15'38	1°23'18	direct	11119 Dec 27 09:32	1° \mathfrak{B} 34'08	
minimum elong	11114 Feb 08 05:04	24° \approx 15'39	1°23'44	evening set	11120 Apr 09 11:13	9° \mathfrak{B} 11'38	
max. Earth dist.	11114 Feb 07 19:01	24° \approx 12'29	10.37870 AU				
morning rise	11114 Feb 25 17:21	26° \approx 26'57		conjunction	11120 Apr 26 12:32	11° \mathfrak{B} 17'28	-0°55'55
	11114 Mar 28 12:16	0° \mathfrak{H}		minimum elong	11120 Apr 26 12:31	11° \mathfrak{B} 17'27	0°56'18
retrograde	11114 Jun 07 13:42	4° \mathfrak{H} 07'47		max. Earth dist.	11120 Apr 26 08:56	11° \mathfrak{B} 16'21	10.59224 AU
opposition	11114 Aug 13 21:58	0° \mathfrak{H} 45'03	1°31'56	morning rise	11120 May 13 11:39	13° \mathfrak{B} 22'39	
min. Earth dist.	11114 Aug 14 06:09	0° \mathfrak{H} 43'26	8.39272 AU		11120 May 27 04:39	15° \mathfrak{B}	
	11114 Aug 23 11:04	30° \mathfrak{R}		retrograde	11120 Aug 22 19:27	20° \mathfrak{B} 49'40	
direct	11114 Oct 21 22:00	27° \approx 18'12		opposition	11120 Oct 30 16:14	17° \mathfrak{B} 28'59	-1°21'43
	11114 Dec 18 11:30	0° \mathfrak{H}		min. Earth dist.	11120 Oct 30 18:18	17° \mathfrak{B} 28'35	8.61050 AU
evening set	11115 Feb 04 07:29	5° \mathfrak{H} 11'21			11120 Dec 06 04:03	15° \mathfrak{R}	
				direct	11121 Jan 08 14:48	14° \mathfrak{B} 05'45	
conjunction	11115 Feb 21 21:06	7° \mathfrak{H} 22'45	1°03'51		11121 Feb 10 13:22	15° \mathfrak{B}	
minimum elong	11115 Feb 21 21:08	7° \mathfrak{H} 22'45	1°04'09	evening set	11121 Apr 22 04:53	21° \mathfrak{B} 39'38	
max. Earth dist.	11115 Feb 21 10:35	7° \mathfrak{H} 19'27	10.40729 AU				
morning rise	11115 Mar 11 07:34	9° \mathfrak{H} 33'13		conjunction	11121 May 09 03:39	23° \mathfrak{B} 44'19	-1°15'55
retrograde	11115 Jun 20 19:47	17° \mathfrak{H} 10'55		minimum elong	11121 May 09 03:37	23° \mathfrak{B} 44'18	1°16'25
opposition	11115 Aug 27 07:46	13° \mathfrak{H} 48'46	1°05'39	max. Earth dist.	11121 May 09 02:01	23° \mathfrak{B} 43'49	10.62715 AU
min. Earth dist.	11115 Aug 27 16:13	13° \mathfrak{H} 47'06	8.42417 AU	morning rise	11121 May 26 00:56	25° \mathfrak{B} 48'32	
direct	11115 Nov 04 13:53	10° \mathfrak{H} 22'16			11121 Jul 03 03:04	0° \mathfrak{I}	
evening set	11116 Feb 17 21:12	18° \mathfrak{H} 13'00		retrograde	11121 Sep 04 14:23	3° \mathfrak{I} 14'42	
					11121 Nov 11 10:41	30° \mathfrak{R}	
conjunction	11116 Mar 06 08:47	20° \mathfrak{H} 23'27	0°41'14	opposition	11121 Nov 12 18:41	29° \mathfrak{B} 53'54	-1°44'13
minimum elong	11116 Mar 06 08:48	20° \mathfrak{H} 23'27	0°41'24	min. Earth dist.	11121 Nov 12 18:34	29° \mathfrak{B} 53'56	8.64389 AU
max. Earth dist.	11116 Mar 05 22:14	20° \mathfrak{H} 20'09	10.44146 AU	direct	11122 Jan 21 16:59	26° \mathfrak{B} 31'19	
morning rise	11116 Mar 23 17:14	22° \mathfrak{H} 32'57			11122 Mar 29 07:04	0° \mathfrak{I}	
	11116 Jun 21 00:41	0° Υ		evening set	11122 May 04 18:51	4° \mathfrak{I} 01'38	
retrograde	11116 Jul 02 22:46	0° Υ 07'41					
	11116 Jul 14 22:54	30° \mathfrak{R}		conjunction	11122 May 21 15:35	6° \mathfrak{I} 05'20	-1°32'16
opposition	11116 Sep 08 16:33	26° \mathfrak{H} 46'01	0°36'14	minimum elong	11122 May 21 15:33	6° \mathfrak{I} 05'19	1°32'50
min. Earth dist.	11116 Sep 09 00:22	26° \mathfrak{H} 44'29	8.45982 AU	max. Earth dist.	11122 May 21 16:51	6° \mathfrak{I} 05'43	10.65807 AU
direct	11116 Nov 17 04:53	23° \mathfrak{H} 20'01		morning rise	11122 Jun 07 11:22	8° \mathfrak{I} 08'44	
	11117 Feb 20 21:19	0° Υ		retrograde	11122 Sep 17 07:52	15° \mathfrak{I} 34'32	
evening set	11117 Mar 02 06:53	1° Υ 07'52		opposition	11122 Nov 25 19:31	12° \mathfrak{I} 13'29	-2°01'45
				min. Earth dist.	11122 Nov 25 16:37	12° \mathfrak{I} 14'02	8.67260 AU
conjunction	11117 Mar 19 16:12	3° Υ 17'15	0°16'42	direct	11123 Feb 03 16:46	8° \mathfrak{I} 51'29	
minimum elong	11117 Mar 19 16:13	3° Υ 17'15	0°16'43	evening set	11123 May 17 05:56	16° \mathfrak{I} 18'30	
max. Earth dist.	11117 Mar 19 06:44	3° Υ 14'18	10.47842 AU				
morning rise	11117 Apr 05 22:21	5° Υ 25'42		conjunction	11123 Jun 03 01:15	18° \mathfrak{I} 21'25	-1°44'16
retrograde	11117 Jul 16 00:15	12° Υ 57'51		minimum elong	11123 Jun 03 01:13	18° \mathfrak{I} 21'24	1°44'53
opposition	11117 Sep 22 00:09	9° Υ 36'37	0°05'15	max. Earth dist.	11123 Jun 03 05:47	18° \mathfrak{I} 22'48	10.68368 AU
min. Earth dist.	11117 Sep 22 06:41	9° Υ 35'21	8.49736 AU	morning rise	11123 Jun 19 20:05	20° \mathfrak{I} 24'13	

retrograde	11123 Sep 30 01:53	27° Π 50'03	morning rise	11129 Aug 31 09:23	3° η 30'12
opposition	11123 Dec 08 18:43	24° Π 28'42 -2°13'36	retrograde	11129 Dec 13 18:53	11° η 03'37
min. Earth dist.	11123 Dec 08 13:37	24° Π 29'40 8.69538 AU	opposition	11130 Feb 21 18:48	7° η 39'37 -1°18'38
direct	11124 Feb 16 13:22	21° Π 07'13	min. Earth dist.	11130 Feb 21 09:03	7° η 41'29 8.67107 AU
evening set	11124 May 28 14:47	28° Π 31'18	direct	11130 May 01 05:02	4° η 19'03
	11124 Jun 09 19:09	0° \mathcal{E}	evening set	11130 Aug 09 16:02	11° η 37'59
conjunction	11124 Jun 14 09:13	0° \mathcal{E} 33'42 -1°51'30	conjunction	11130 Aug 26 20:07	13° η 43'04 -0°53'34
minimum elong	11124 Jun 14 09:13	0° \mathcal{E} 33'42 1°52'08	minimum elong	11130 Aug 26 20:09	13° η 43'05 0°53'48
max. Earth dist.	11124 Jun 14 15:47	0° \mathcal{E} 35'42 10.70285 AU	max. Earth dist.	11130 Aug 27 06:56	13° η 46'23 10.65694 AU
morning rise	11124 Jul 01 03:55	2° \mathcal{E} 36'11	morning rise	11130 Sep 13 03:42	15° η 49'09
retrograde	11124 Oct 11 20:02	10° \mathcal{E} 02'25	retrograde	11130 Dec 26 18:28	23° η 24'41
opposition	11124 Dec 20 16:41	6° \mathcal{E} 40'43 -2°19'22	opposition	11131 Mar 06 14:21	20° η 00'15 -0°52'07
min. Earth dist.	11124 Dec 20 10:16	6° \mathcal{E} 41'57 8.71113 AU	min. Earth dist.	11131 Mar 06 05:37	20° η 01'57 8.64209 AU
direct	11125 Feb 28 05:51	3° \mathcal{E} 19'41	direct	11131 May 13 18:41	16° η 39'23
evening set	11125 Jun 09 21:57	10° \mathcal{E} 41'19	evening set	11131 Aug 22 07:56	24° η 00'04
conjunction	11125 Jun 26 16:13	12° \mathcal{E} 43'27 -1°53'41	conjunction	11131 Sep 08 15:02	26° η 06'16 -0°30'51
minimum elong	11125 Jun 26 16:13	12° \mathcal{E} 43'27 1°54'19	minimum elong	11131 Sep 08 15:03	26° η 06'17 0°30'57
max. Earth dist.	11125 Jun 27 00:00	12° \mathcal{E} 45'50 10.71472 AU	max. Earth dist.	11131 Sep 09 01:15	26° η 09'24 10.62577 AU
morning rise	11125 Jul 13 11:37	14° \mathcal{E} 45'55	morning rise	11131 Sep 26 01:36	28° η 13'30
retrograde	11125 Oct 24 11:39	22° \mathcal{E} 12'58		11131 Oct 11 06:36	0° \mathcal{A}
opposition	11126 Jan 02 13:35	18° \mathcal{E} 50'52 -2°18'51	retrograde	11132 Jan 08 18:29	5° \mathcal{A} 51'16
min. Earth dist.	11126 Jan 02 06:12	18° \mathcal{E} 52'16 8.71913 AU	opposition	11132 Mar 18 10:26	2° \mathcal{A} 26'27 -0°22'58
direct	11126 Mar 12 22:30	15° \mathcal{E} 30'09	min. Earth dist.	11132 Mar 18 02:25	2° \mathcal{A} 28'00 8.60866 AU
evening set	11126 Jun 22 04:22	22° \mathcal{E} 49'55		11132 Apr 22 14:41	30° \mathcal{R} η
conjunction	11126 Jul 08 23:22	24° \mathcal{E} 52'07 -1°50'45	direct	11132 May 25 11:27	29° η 05'09
minimum elong	11126 Jul 08 23:23	24° \mathcal{E} 52'07 1°51'22		11132 Jun 26 20:06	0° \mathcal{A}
max. Earth dist.	11126 Jul 09 08:27	24° \mathcal{E} 54'53 10.71875 AU	evening set	11132 Sep 03 04:02	6° \mathcal{A} 28'19
morning rise	11126 Jul 25 20:12	26° \mathcal{E} 54'48	conjunction	11132 Sep 20 14:02	8° \mathcal{A} 35'42 -0°06'35
	11126 Aug 22 05:10	0° \mathcal{Q}	minimum elong	11132 Sep 20 14:03	8° \mathcal{A} 35'42 0°06'32
retrograde	11126 Nov 06 05:10	4° \mathcal{Q} 23'03	behind sun begin	11132 Sep 20 07:19	8° \mathcal{A} 33'39
opposition	11127 Jan 15 09:26	1° \mathcal{Q} 00'29 -2°12'08	behind sun end	11132 Sep 20 20:47	8° \mathcal{A} 37'44
min. Earth dist.	11127 Jan 15 00:48	1° \mathcal{Q} 02'07 8.71901 AU	max. Earth dist.	11132 Sep 20 23:39	8° \mathcal{A} 38'38 10.59080 AU
	11127 Jan 28 20:11	30° \mathcal{R} \mathcal{E}	morning rise	11132 Oct 08 03:14	10° \mathcal{A} 44'03
direct	11127 Mar 25 14:09	27° \mathcal{E} 40'00	asc. node	11132 Dec 29 21:11	17° \mathcal{A} 59'15
	11127 May 17 21:24	0° \mathcal{Q}	retrograde	11133 Jan 20 22:39	18° \mathcal{A} 24'05
evening set	11127 Jul 04 10:45	4° \mathcal{Q} 58'27	opposition	11133 Mar 31 07:39	14° \mathcal{A} 58'56 0°07'30
conjunction	11127 Jul 21 07:23	7° \mathcal{Q} 01'02 -1°42'52	min. Earth dist.	11133 Mar 31 00:22	15° \mathcal{A} 00'21 8.57234 AU
minimum elong	11127 Jul 21 07:25	7° \mathcal{Q} 01'03 1°43'26	direct	11133 Jun 07 04:44	11° \mathcal{A} 37'07
max. Earth dist.	11127 Jul 21 18:21	7° \mathcal{Q} 04'23 10.71464 AU	evening set	11133 Sep 16 04:45	19° \mathcal{A} 03'23
morning rise	11127 Aug 07 06:12	9° \mathcal{Q} 04'16	conjunction	11133 Oct 03 17:18	21° \mathcal{A} 11'54 0°18'18
	11127 Oct 06 02:00	15° \mathcal{Q}	minimum elong	11133 Oct 03 17:17	21° \mathcal{A} 11'54 0°18'29
retrograde	11127 Nov 19 01:04	16° \mathcal{Q} 33'59	max. Earth dist.	11133 Oct 04 01:20	21° \mathcal{A} 14'22 10.55355 AU
	11128 Jan 03 00:29	15° \mathcal{R} \mathcal{Q}	morning rise	11133 Oct 21 08:43	23° \mathcal{A} 21'20
opposition	11128 Jan 28 04:38	13° \mathcal{Q} 10'55 -1°59'28		11133 Dec 29 16:41	0° \mathcal{M}
min. Earth dist.	11128 Jan 27 18:43	13° \mathcal{Q} 12'49 8.71058 AU	retrograde	11134 Feb 03 05:15	1° \mathcal{M} .03'31
direct	11128 Apr 06 03:06	9° \mathcal{Q} 50'33		11134 Mar 10 23:28	30° \mathcal{R} \mathcal{A}
	11128 Jun 27 04:52	15° \mathcal{Q}	opposition	11134 Apr 13 06:08	27° \mathcal{A} 38'07 0°37'53
evening set	11128 Jul 15 18:16	17° \mathcal{Q} 08'25	min. Earth dist.	11134 Apr 13 00:32	27° \mathcal{A} 39'13 8.53456 AU
conjunction	11128 Aug 01 17:01	19° \mathcal{Q} 11'38 -1°30'20	direct	11134 Jun 19 23:25	24° \mathcal{A} 15'38
minimum elong	11128 Aug 01 17:04	19° \mathcal{Q} 11'38 1°30'48		11134 Sep 14 11:41	0° \mathcal{M}
max. Earth dist.	11128 Aug 02 05:04	19° \mathcal{Q} 15'18 10.70243 AU	evening set	11134 Sep 29 10:27	1° \mathcal{M} .45'35
morning rise	11128 Aug 18 18:21	21° \mathcal{Q} 15'37	conjunction	11134 Oct 17 01:02	3° \mathcal{M} .55'09 0°42'24
retrograde	11128 Nov 30 20:46	28° \mathcal{Q} 47'05	minimum elong	11134 Oct 17 01:00	3° \mathcal{M} .55'08 0°42'42
opposition	11129 Feb 08 23:38	25° \mathcal{Q} 23'32 -1°41'24	max. Earth dist.	11134 Oct 17 05:56	3° \mathcal{M} .56'40 10.51537 AU
min. Earth dist.	11129 Feb 08 13:14	25° \mathcal{Q} 25'32 8.69427 AU	morning rise	11134 Nov 03 18:12	6° \mathcal{M} .05'31
direct	11129 Apr 18 15:52	22° \mathcal{Q} 03'09	retrograde	11135 Feb 16 12:28	13° \mathcal{M} .49'36
evening set	11129 Jul 28 03:47	29° \mathcal{Q} 21'10	opposition	11135 Apr 26 05:56	10° \mathcal{M} .24'04 1°06'41
	11129 Aug 02 12:57	0° η	min. Earth dist.	11135 Apr 26 03:03	10° \mathcal{M} .24'38 8.49655 AU
conjunction	11129 Aug 14 05:02	1° η 25'14 -1°13'40	direct	11135 Jul 02 21:57	7° \mathcal{M} .00'47
minimum elong	11129 Aug 14 05:04	1° η 25'15 1°14'02	evening set	11135 Oct 12 20:44	14° \mathcal{M} .34'54
max. Earth dist.	11129 Aug 14 16:50	1° η 28'50 10.68286 AU		11135 Oct 16 07:15	15° \mathcal{M}

conjunction	11135 Oct 30 12:53	16° \mathbb{M} 45'24	1°04'35	conjunction	11142 Jan 19 17:39	5° \approx 35'05	1°43'28
minimum elong	11135 Oct 30 12:51	16° \mathbb{M} 45'23	1°05'00	minimum elong	11142 Jan 19 17:41	5° \approx 35'05	1°44'03
max. Earth dist.	11135 Oct 30 14:15	16° \mathbb{M} 45'49	10.47741 AU	max. Earth dist.	11142 Jan 19 05:52	5° \approx 31'22	10.36081 AU
morning rise	11135 Nov 17 07:12	18° \mathbb{M} 56'33		morning rise	11142 Feb 06 08:30	7° \approx 47'08	
retrograde	11136 Feb 29 20:51	26° \mathbb{M} 42'20			11142 Apr 25 17:22	15° \approx	
opposition	11136 May 08 07:29	23° \mathbb{M} 16'45	1°32'25	retrograde	11142 May 19 16:36	15° \approx 31'09	
min. Earth dist.	11136 May 08 07:19	23° \mathbb{M} 16'47	8.45944 AU		11142 Jun 12 20:48	15° \mathbb{R} \approx	
direct	11136 Jul 14 23:46	19° \mathbb{M} 52'40		opposition	11142 Jul 26 00:34	12° \approx 07'23	2°01'09
evening set	11136 Oct 25 11:09	27° \mathbb{M} 31'10		min. Earth dist.	11142 Jul 26 09:43	12° \approx 05'33	8.36671 AU
				direct	11142 Oct 02 17:35	8° \approx 40'02	
conjunction	11136 Nov 12 04:29	29° \mathbb{M} 42'30	1°23'40		11143 Jan 02 20:35	15° \approx	
minimum elong	11136 Nov 12 04:26	29° \mathbb{M} 42'29	1°24'11	evening set	11143 Jan 15 21:46	16° \approx 34'16	
max. Earth dist.	11136 Nov 12 02:48	29° \mathbb{M} 41'59	10.44107 AU				
	11136 Nov 14 12:45	0° \mathbb{Z}		conjunction	11143 Feb 02 13:37	18° \approx 46'32	1°30'29
morning rise	11136 Nov 29 23:18	1° \mathbb{Z} 54'17		minimum elong	11143 Feb 02 13:39	18° \approx 46'33	1°30'58
retrograde	11137 Mar 14 07:22	9° \mathbb{Z} 41'29		max. Earth dist.	11143 Feb 02 01:41	18° \approx 42'47	10.37282 AU
opposition	11137 May 21 10:44	6° \mathbb{Z} 15'58	1°53'39	morning rise	11143 Feb 20 02:51	20° \approx 58'02	
min. Earth dist.	11137 May 21 12:41	6° \mathbb{Z} 15'35	8.42510 AU	retrograde	11143 Jun 02 00:59	28° \approx 39'32	
direct	11137 Jul 28 04:21	2° \mathbb{Z} 51'06		opposition	11143 Aug 08 10:06	25° \approx 16'15	1°42'01
evening set	11137 Nov 08 05:34	10° \mathbb{Z} 34'02		min. Earth dist.	11143 Aug 08 18:58	25° \approx 14'29	8.38298 AU
				direct	11143 Oct 16 09:18	21° \approx 48'56	
conjunction	11137 Nov 25 23:40	12° \mathbb{Z} 46'02	1°38'36	evening set	11144 Jan 29 16:01	29° \approx 42'15	
minimum elong	11137 Nov 25 23:38	12° \mathbb{Z} 46'01	1°39'11		11144 Feb 01 01:40	0° \mathbb{H}	
max. Earth dist.	11137 Nov 25 19:53	12° \mathbb{Z} 44'51	10.40880 AU				
morning rise	11137 Dec 13 18:21	14° \mathbb{Z} 58'16		conjunction	11144 Feb 16 06:31	1° \mathbb{H} 53'56	1°12'49
retrograde	11138 Mar 27 18:56	22° \mathbb{Z} 46'19		minimum elong	11144 Feb 16 06:33	1° \mathbb{H} 53'57	1°13'12
opposition	11138 Jun 03 15:36	19° \mathbb{Z} 20'58	2°09'11	max. Earth dist.	11144 Feb 15 19:20	1° \mathbb{H} 50'26	10.39374 AU
min. Earth dist.	11138 Jun 03 19:00	19° \mathbb{Z} 20'17	8.39614 AU	morning rise	11144 Mar 04 17:54	4° \mathbb{H} 04'43	
direct	11138 Aug 10 12:00	15° \mathbb{Z} 55'22		retrograde	11144 Jun 14 08:12	11° \mathbb{H} 43'23	
evening set	11138 Nov 22 02:59	23° \mathbb{Z} 42'20		opposition	11144 Aug 20 19:12	8° \mathbb{H} 20'35	1°17'40
				min. Earth dist.	11144 Aug 21 03:26	8° \mathbb{H} 18'57	8.40761 AU
conjunction	11138 Dec 09 21:23	25° \mathbb{Z} 54'50	1°48'29	direct	11144 Oct 28 24:00	4° \mathbb{H} 53'30	
minimum elong	11138 Dec 09 21:21	25° \mathbb{Z} 54'49	1°49'07	evening set	11145 Feb 11 06:50	12° \mathbb{H} 44'59	
max. Earth dist.	11138 Dec 09 15:31	25° \mathbb{Z} 53'00	10.38314 AU				
morning rise	11138 Dec 27 15:27	28° \mathbb{Z} 07'19		conjunction	11145 Feb 28 19:35	14° \mathbb{H} 55'52	0°51'30
	11139 Jan 12 08:58	0° \mathbb{Z}		minimum elong	11145 Feb 28 19:37	14° \mathbb{H} 55'53	0°51'44
retrograde	11139 Apr 10 07:27	5° \mathbb{Z} 55'29		max. Earth dist.	11145 Feb 28 09:31	14° \mathbb{H} 52'43	10.42235 AU
opposition	11139 Jun 16 22:15	2° \mathbb{Z} 30'25	2°18'04	morning rise	11145 Mar 18 04:54	17° \mathbb{H} 05'47	
min. Earth dist.	11139 Jun 17 03:17	2° \mathbb{Z} 29'24	8.37473 AU	retrograde	11145 Jun 27 12:22	24° \mathbb{H} 41'33	
	11139 Jul 22 01:46	30° \mathbb{R} \mathbb{Z}		opposition	11145 Sep 03 03:48	21° \mathbb{H} 19'14	0°49'31
direct	11139 Aug 23 21:51	29° \mathbb{Z} 04'10		min. Earth dist.	11145 Sep 03 11:33	21° \mathbb{H} 17'42	8.43922 AU
	11139 Sep 25 12:50	0° \mathbb{Z}		direct	11145 Nov 11 14:12	17° \mathbb{H} 52'34	
evening set	11139 Dec 06 02:02	6° \mathbb{Z} 54'27		evening set	11146 Feb 24 17:48	25° \mathbb{H} 41'29	
conjunction	11139 Dec 23 20:14	9° \mathbb{Z} 07'13	1°52'44	conjunction	11146 Mar 14 04:17	27° \mathbb{H} 51'21	0°27'42
minimum elong	11139 Dec 23 20:14	9° \mathbb{Z} 07'13	1°53'23	minimum elong	11146 Mar 14 04:18	27° \mathbb{H} 51'21	0°27'47
max. Earth dist.	11139 Dec 23 12:15	9° \mathbb{Z} 04'43	10.36598 AU	max. Earth dist.	11146 Mar 13 19:03	27° \mathbb{H} 48'28	10.45709 AU
morning rise	11140 Jan 10 13:25	11° \mathbb{Z} 19'45		morning rise	11146 Mar 31 11:23	0° \mathbb{Y} 00'16	
retrograde	11140 Apr 22 20:35	19° \mathbb{Z} 07'17			11146 Mar 31 10:31	0° \mathbb{Y}	
opposition	11140 Jun 29 06:17	15° \mathbb{Z} 42'35	2°19'43	retrograde	11146 Jul 10 14:20	7° \mathbb{Y} 33'17	
min. Earth dist.	11140 Jun 29 13:05	15° \mathbb{Z} 41'13	8.36232 AU	opposition	11146 Sep 16 11:29	4° \mathbb{Y} 11'26	0°19'05
direct	11140 Sep 05 09:44	12° \mathbb{Z} 15'48		min. Earth dist.	11146 Sep 16 18:39	4° \mathbb{Y} 10'02	8.47627 AU
evening set	11140 Dec 19 01:45	20° \mathbb{Z} 08'30		direct	11146 Nov 25 02:44	0° \mathbb{Y} 45'23	
				evening set	11147 Mar 10 00:35	8° \mathbb{Y} 31'10	
conjunction	11141 Jan 05 19:26	22° \mathbb{Z} 21'19	1°51'02				
minimum elong	11141 Jan 05 19:27	22° \mathbb{Z} 21'20	1°51'40	conjunction	11147 Mar 27 08:30	10° \mathbb{Y} 39'53	0°02'44
max. Earth dist.	11141 Jan 05 09:14	22° \mathbb{Z} 18'07	10.35842 AU	minimum elong	11147 Mar 27 08:30	10° \mathbb{Y} 39'53	0°02'41
morning rise	11141 Jan 23 11:33	24° \mathbb{Z} 33'42		behind sun begin	11147 Mar 27 01:22	10° \mathbb{Y} 37'42	
	11141 Mar 15 02:40	0° \approx		behind sun end	11147 Mar 27 15:37	10° \mathbb{Y} 42'05	
retrograde	11141 May 06 07:35	2° \approx 19'48		max. Earth dist.	11147 Mar 27 00:15	10° \mathbb{Y} 37'21	10.49631 AU
	11141 Jun 28 23:18	30° \mathbb{R} \mathbb{Z}		morning rise	11147 Apr 13 13:20	12° \mathbb{Y} 47'42	
opposition	11141 Jul 12 15:09	28° \mathbb{Z} 55'33	2°13'58	desc. node	11147 May 07 02:54	15° \mathbb{Y} 32'23	
min. Earth dist.	11141 Jul 12 23:39	28° \mathbb{Z} 53'51	8.35966 AU	retrograde	11147 Jul 23 14:30	20° \mathbb{Y} 18'15	
direct	11141 Sep 19 00:47	25° \mathbb{Z} 28'22		opposition	11147 Sep 29 17:58	16° \mathbb{Y} 56'50	-0°12'01
	11141 Dec 03 22:26	0° \approx		min. Earth dist.	11147 Sep 29 23:48	16° \mathbb{Y} 55'42	8.51696 AU
evening set	11142 Jan 02 00:45	3° \approx 22'26		direct	11147 Dec 08 12:32	13° \mathbb{Y} 31'31	
				evening set	11148 Mar 22 03:01	21° \mathbb{Y} 13'48	

conjunction	11148 Apr 08 08:16	23° Υ 21'18	-0°22'17		11154 Apr 12 23:43	0° Θ	
minimum elong	11148 Apr 08 08:15	23° Υ 21'18	0°22'30	evening set	11154 Jun 04 15:44	5° Θ 23'23	
max. Earth dist.	11148 Apr 08 01:53	23° Υ 19'20	10.53800 AU				
morning rise	11148 Apr 25 10:47	25° Υ 27'59		conjunction	11154 Jun 21 09:57	7° Θ 25'21	-1°53'07
	11148 Jun 05 20:41	0° \mathcal{B}		minimum elong	11154 Jun 21 09:57	7° Θ 25'21	1°53'46
retrograde	11148 Aug 04 11:28	2° \mathcal{B} 56'29		max. Earth dist.	11154 Jun 21 18:02	7° Θ 27'49	10.73258 AU
	11148 Oct 06 15:15	30° $\mathcal{R}\Upsilon$		morning rise	11154 Jul 08 04:49	9° Θ 27'31	
opposition	11148 Oct 11 23:05	29° Υ 35'24	-0°42'14	retrograde	11154 Oct 19 00:42	16° Θ 53'17	
min. Earth dist.	11148 Oct 12 02:44	29° Υ 34'42	8.55912 AU	opposition	11154 Dec 28 00:40	13° Θ 32'00	-2°19'34
direct	11148 Dec 20 21:16	26° Υ 10'56		min. Earth dist.	11154 Dec 27 16:44	13° Θ 33'30	8.73965 AU
	11149 Feb 28 22:17	0° \mathcal{B}		direct	11155 Mar 07 12:31	10° Θ 11'48	
evening set	11149 Apr 04 01:26	3° \mathcal{B} 49'32		evening set	11155 Jun 16 22:08	17° Θ 31'27	
conjunction	11149 Apr 21 04:00	5° \mathcal{B} 55'47	-0°45'56	conjunction	11155 Jul 03 16:44	19° Θ 33'19	-1°52'32
minimum elong	11149 Apr 21 03:59	5° \mathcal{B} 55'46	0°46'17	minimum elong	11155 Jul 03 16:44	19° Θ 33'20	1°53'10
max. Earth dist.	11149 Apr 21 00:31	5° \mathcal{B} 54'42	10.57995 AU	max. Earth dist.	11155 Jul 04 02:22	19° Θ 36'15	10.74154 AU
morning rise	11149 May 08 04:06	8° \mathcal{B} 01'19		morning rise	11155 Jul 20 12:34	21° Θ 35'35	
	11149 Jul 25 02:28	15° \mathcal{B}		retrograde	11155 Oct 31 18:35	29° Θ 02'17	
retrograde	11149 Aug 17 08:17	15° \mathcal{B} 28'15		opposition	11156 Jan 09 20:25	25° Θ 40'35	-2°15'41
	11149 Sep 09 21:51	15° $\mathcal{R}\mathcal{B}$		min. Earth dist.	11156 Jan 09 11:51	25° Θ 42'12	8.74362 AU
opposition	11149 Oct 25 02:47	12° \mathcal{B} 07'25	-1°10'08	direct	11156 Mar 19 02:59	22° Θ 20'38	
min. Earth dist.	11149 Oct 25 03:57	12° \mathcal{B} 07'11	8.60066 AU	evening set	11156 Jun 28 04:17	29° Θ 38'44	
direct	11150 Jan 03 02:47	8° \mathcal{B} 43'50			11156 Jul 01 03:21	0° \mathcal{Q}	
	11150 Apr 05 18:40	15° \mathcal{B}					
evening set	11150 Apr 16 19:59	16° \mathcal{B} 18'41		conjunction	11156 Jul 14 23:54	1° \mathcal{Q} 40'50	-1°46'55
conjunction	11150 May 03 19:59	18° \mathcal{B} 23'44	-1°07'14	minimum elong	11156 Jul 14 23:55	1° \mathcal{Q} 40'50	1°47'31
minimum elong	11150 May 03 19:57	18° \mathcal{B} 23'43	1°07'42	max. Earth dist.	11156 Jul 15 09:26	1° \mathcal{Q} 43'44	10.74041 AU
max. Earth dist.	11150 May 03 19:26	18° \mathcal{B} 23'34	10.62025 AU	morning rise	11156 Jul 31 21:33	3° \mathcal{Q} 43'31	
morning rise	11150 May 20 17:53	20° \mathcal{B} 28'13		retrograde	11156 Nov 12 12:37	11° \mathcal{Q} 11'35	
retrograde	11150 Aug 30 05:02	27° \mathcal{B} 54'02		opposition	11157 Jan 21 15:41	7° \mathcal{Q} 49'24	-2°05'45
opposition	11150 Nov 07 05:14	24° \mathcal{B} 33'20	-1°34'29	min. Earth dist.	11157 Jan 21 07:24	7° \mathcal{Q} 50'58	8.73709 AU
min. Earth dist.	11150 Nov 07 04:29	24° \mathcal{B} 33'29	8.63977 AU	direct	11157 Mar 31 15:51	4° \mathcal{Q} 29'34	
direct	11151 Jan 16 03:40	21° \mathcal{B} 10'37		evening set	11157 Jul 10 10:51	11° \mathcal{Q} 46'51	
evening set	11151 Apr 29 10:56	28° \mathcal{B} 41'48		conjunction	11157 Jul 27 08:16	13° \mathcal{Q} 49'29	-1°36'31
	11151 May 10 03:44	0° \mathcal{I}		minimum elong	11157 Jul 27 08:18	13° \mathcal{Q} 49'30	1°37'02
conjunction	11151 May 16 08:34	0° \mathcal{I} 45'46	-1°25'15	max. Earth dist.	11157 Jul 27 17:52	13° \mathcal{Q} 52'24	10.72899 AU
minimum elong	11151 May 16 08:32	0° \mathcal{I} 45'45	1°25'48	morning rise	11157 Aug 06 00:19	15° \mathcal{Q}	
max. Earth dist.	11151 May 16 10:08	0° \mathcal{I} 46'15	10.65717 AU	retrograde	11157 Aug 13 08:22	15° \mathcal{Q} 52'52	
morning rise	11151 Jun 02 04:49	2° \mathcal{I} 49'20		opposition	11157 Nov 25 06:23	23° \mathcal{Q} 22'44	
retrograde	11151 Sep 11 22:06	10° \mathcal{I} 14'30		min. Earth dist.	11158 Feb 03 10:38	19° \mathcal{Q} 59'59	-1°50'11
opposition	11151 Nov 20 06:12	6° \mathcal{I} 53'51	-1°54'16	direct	11158 Feb 03 02:14	20° \mathcal{Q} 01'35	8.72059 AU
min. Earth dist.	11151 Nov 20 03:58	6° \mathcal{I} 54'16	8.67471 AU	evening set	11158 Apr 13 05:52	16° \mathcal{Q} 40'04	
direct	11152 Jan 29 03:04	3° \mathcal{I} 31'54			11158 Jul 22 19:04	23° \mathcal{Q} 57'19	
evening set	11152 May 10 22:57	10° \mathcal{I} 59'42		conjunction	11158 Aug 08 19:00	26° \mathcal{Q} 00'47	-1°21'44
conjunction	11152 May 27 18:40	13° \mathcal{I} 02'43	-1°39'14	minimum elong	11158 Aug 08 19:03	26° \mathcal{Q} 00'48	1°22'10
minimum elong	11152 May 27 18:38	13° \mathcal{I} 02'42	1°39'50	max. Earth dist.	11158 Aug 09 05:14	26° \mathcal{Q} 03'54	10.70834 AU
max. Earth dist.	11152 May 27 21:49	13° \mathcal{I} 03'41	10.68911 AU	morning rise	11158 Aug 25 21:53	28° \mathcal{Q} 05'05	
morning rise	11152 Jun 13 13:52	15° \mathcal{I} 05'34			11158 Sep 11 10:54	0° \mathcal{P}	
retrograde	11152 Sep 23 14:40	22° \mathcal{I} 30'31		retrograde	11158 Dec 08 03:35	5° \mathcal{P} 37'00	
opposition	11152 Dec 02 05:35	19° \mathcal{I} 09'47	-2°08'41	opposition	11159 Feb 16 05:18	2° \mathcal{P} 13'36	-1°29'34
min. Earth dist.	11152 Dec 02 01:44	19° \mathcal{I} 10'31	8.70390 AU	min. Earth dist.	11159 Feb 15 20:33	2° \mathcal{P} 15'17	8.69556 AU
direct	11153 Feb 10 01:07	15° \mathcal{I} 48'32			11159 Mar 20 01:00	30° $\mathcal{R}\mathcal{Q}$	
evening set	11153 May 23 08:23	23° \mathcal{I} 13'13		direct	11159 Apr 25 19:20	28° \mathcal{Q} 53'25	
conjunction	11153 Jun 09 02:56	25° \mathcal{I} 15'34	-1°48'38	evening set	11159 May 31 19:03	0° \mathcal{P}	
minimum elong	11153 Jun 09 02:55	25° \mathcal{I} 15'33	1°49'17		11159 Aug 04 05:42	6° \mathcal{P} 11'24	
max. Earth dist.	11153 Jun 09 08:22	25° \mathcal{I} 17'14	10.71469 AU	conjunction	11159 Aug 21 08:31	8° \mathcal{P} 15'52	-1°03'11
morning rise	11153 Jun 25 21:38	27° \mathcal{I} 17'56		minimum elong	11159 Aug 21 08:33	8° \mathcal{P} 15'53	1°03'29
	11153 Jul 19 13:15	0° Θ		max. Earth dist.	11159 Aug 21 19:12	8° \mathcal{P} 19'08	10.67990 AU
retrograde	11153 Oct 06 07:56	4° Θ 43'06		morning rise	11159 Sep 07 14:23	10° \mathcal{P} 21'16	
opposition	11153 Dec 15 03:45	1° Θ 22'08	-2°17'13	retrograde	11159 Dec 21 02:29	17° \mathcal{P} 55'24	
min. Earth dist.	11153 Dec 14 21:38	1° Θ 23'18	8.72599 AU	opposition	11160 Feb 29 00:18	14° \mathcal{P} 31'21	-1°04'44
	11154 Jan 02 18:58	30° $\mathcal{R}\mathcal{I}$		min. Earth dist.	11160 Feb 28 15:31	14° \mathcal{P} 33'02	8.66350 AU
direct	11154 Feb 22 20:00	28° \mathcal{I} 01'30		direct	11160 May 07 08:05	11° \mathcal{P} 10'46	
				evening set	11160 Aug 15 19:33	18° \mathcal{P} 30'14	

conjunction	11160 Sep 02 01:14	20° \mathbb{M} 35'49	-0°41'37	min. Earth dist.	11166 May 15 16:52	0° \mathbb{Z} 28'01	8.42247 AU
minimum elong	11160 Sep 02 01:15	20° \mathbb{M} 35'50	0°41'46		11166 May 21 13:25	30° $\mathbb{R}\mathbb{M}$	
max. Earth dist.	11160 Sep 02 11:02	20° \mathbb{M} 38'49	10.64520 AU	direct	11166 Jul 22 08:42	27° \mathbb{M} 02'59	
morning rise	11160 Sep 19 10:12	22° \mathbb{M} 42'25			11166 Sep 19 22:22	0° \mathbb{Z}	
	11160 Dec 13 17:53	0° \mathbb{L}		evening set	11166 Nov 02 04:03	4° \mathbb{Z} 44'29	
retrograde	11161 Jan 02 02:32	0° \mathbb{L} 18'55					
	11161 Jan 21 12:05	30° $\mathbb{R}\mathbb{M}$		conjunction	11166 Nov 19 21:51	6° \mathbb{Z} 56'23	1°32'14
opposition	11161 Mar 12 20:00	26° \mathbb{M} 54'15	-0°36'43	minimum elong	11166 Nov 19 21:49	6° \mathbb{Z} 56'22	1°32'49
min. Earth dist.	11161 Mar 12 12:19	26° \mathbb{M} 55'44	8.62610 AU	max. Earth dist.	11166 Nov 19 19:15	6° \mathbb{Z} 55'34	10.40538 AU
direct	11161 May 19 22:45	23° \mathbb{M} 33'06		morning rise	11166 Dec 07 16:41	9° \mathbb{Z} 08'39	
	11161 Aug 20 20:16	0° \mathbb{L}		retrograde	11167 Mar 21 21:21	16° \mathbb{Z} 57'00	
evening set	11161 Aug 28 13:23	0° \mathbb{L} 54'50		opposition	11167 May 28 20:57	13° \mathbb{Z} 30'59	2°02'48
				min. Earth dist.	11167 May 28 23:43	13° \mathbb{Z} 30'26	8.39179 AU
conjunction	11161 Sep 14 21:54	3° \mathbb{L} 01'39	-0°17'58	direct	11167 Aug 04 15:32	10° \mathbb{Z} 05'10	
minimum elong	11161 Sep 14 21:55	3° \mathbb{L} 01'39	0°17'59	evening set	11167 Nov 16 00:16	17° \mathbb{Z} 50'54	
max. Earth dist.	11161 Sep 15 05:58	3° \mathbb{L} 04'06	10.60601 AU				
morning rise	11161 Oct 02 09:54	5° \mathbb{L} 09'28		conjunction	11167 Dec 03 18:27	20° \mathbb{Z} 03'21	1°44'34
retrograde	11162 Jan 15 05:05	12° \mathbb{L} 48'22		minimum elong	11167 Dec 03 18:26	20° \mathbb{Z} 03'21	1°45'11
opposition	11162 Mar 25 16:31	9° \mathbb{L} 23'10	-0°06'44	max. Earth dist.	11167 Dec 03 13:06	20° \mathbb{Z} 01'41	10.37810 AU
min. Earth dist.	11162 Mar 25 10:30	9° \mathbb{L} 24'21	8.58518 AU	morning rise	11167 Dec 21 13:01	22° \mathbb{Z} 15'57	
direct	11162 Jun 01 14:48	6° \mathbb{L} 01'19			11168 Mar 25 00:07	0° \mathbb{Z}	
asc. node	11162 Jun 16 03:39	6° \mathbb{L} 12'35		retrograde	11168 Apr 03 08:53	0° \mathbb{Z} 04'45	
evening set	11162 Sep 10 11:37	13° \mathbb{L} 26'05			11168 Apr 12 18:57	30° $\mathbb{R}\mathbb{Z}$	
				opposition	11168 Jun 10 03:06	26° \mathbb{Z} 39'03	2°14'51
conjunction	11162 Sep 27 22:53	15° \mathbb{L} 34'06	0°06'48	min. Earth dist.	11168 Jun 10 07:36	26° \mathbb{Z} 38'09	8.36884 AU
minimum elong	11162 Sep 27 22:54	15° \mathbb{L} 34'06	0°06'56	direct	11168 Aug 17 01:16	23° \mathbb{Z} 12'38	
behind sun begin	11162 Sep 27 16:14	15° \mathbb{L} 32'05			11168 Nov 20 10:03	0° \mathbb{Z}	
behind sun end	11162 Sep 28 05:33	15° \mathbb{L} 36'08		evening set	11168 Nov 28 22:43	1° \mathbb{Z} 02'01	
max. Earth dist.	11162 Sep 28 05:09	15° \mathbb{L} 36'00	10.56401 AU				
morning rise	11162 Oct 15 13:30	17° \mathbb{L} 43'07		conjunction	11168 Dec 16 17:02	3° \mathbb{Z} 14'50	1°51'28
retrograde	11163 Jan 28 08:42	25° \mathbb{L} 24'25		minimum elong	11168 Dec 16 17:02	3° \mathbb{Z} 14'50	1°52'07
opposition	11163 Apr 07 14:12	21° \mathbb{L} 58'46	0°23'51	max. Earth dist.	11168 Dec 16 09:58	3° \mathbb{Z} 12'37	10.35934 AU
min. Earth dist.	11163 Apr 07 09:45	21° \mathbb{L} 59'39	8.54244 AU	morning rise	11169 Jan 03 10:55	5° \mathbb{Z} 27'34	
direct	11163 Jun 14 09:45	18° \mathbb{L} 36'08		retrograde	11169 Apr 16 21:55	13° \mathbb{Z} 16'05	
evening set	11163 Sep 23 14:37	26° \mathbb{L} 04'35		opposition	11169 Jun 23 10:44	9° \mathbb{Z} 50'50	2°19'52
				min. Earth dist.	11169 Jun 23 16:20	9° \mathbb{Z} 49'43	8.35484 AU
conjunction	11163 Oct 11 04:20	28° \mathbb{L} 13'46	0°31'20	direct	11169 Aug 30 12:36	6° \mathbb{Z} 23'59	
minimum elong	11163 Oct 11 04:18	28° \mathbb{L} 13'46	0°31'36	evening set	11169 Dec 12 22:38	14° \mathbb{Z} 16'14	
max. Earth dist.	11163 Oct 11 09:18	28° \mathbb{L} 15'18	10.52091 AU				
	11163 Oct 25 14:10	0° \mathbb{M}		conjunction	11169 Dec 30 16:44	16° \mathbb{Z} 29'13	1°52'30
morning rise	11163 Oct 28 20:50	0° \mathbb{M} 23'50		minimum elong	11169 Dec 30 16:45	16° \mathbb{Z} 29'13	1°53'09
retrograde	11164 Feb 10 14:19	8° \mathbb{M} 07'27		max. Earth dist.	11169 Dec 30 08:30	16° \mathbb{Z} 26'38	10.35011 AU
opposition	11164 Apr 19 13:16	4° \mathbb{M} 41'27	0°53'35	morning rise	11170 Jan 17 09:31	18° \mathbb{Z} 41'52	
min. Earth dist.	11164 Apr 19 09:52	4° \mathbb{M} 42'08	8.49972 AU	retrograde	11170 Apr 30 10:30	26° \mathbb{Z} 29'19	
direct	11164 Jun 26 07:38	1° \mathbb{M} 18'02		opposition	11170 Jul 06 19:31	23° \mathbb{Z} 04'39	2°17'29
evening set	11164 Oct 05 22:32	8° \mathbb{M} 50'36		min. Earth dist.	11170 Jul 07 01:54	23° \mathbb{Z} 03'22	8.35057 AU
				direct	11170 Sep 13 02:37	19° \mathbb{Z} 37'33	
conjunction	11164 Oct 23 14:11	11° \mathbb{M} 00'52	0°54'34	evening set	11170 Dec 26 22:37	27° \mathbb{Z} 31'40	
minimum elong	11164 Oct 23 14:09	11° \mathbb{M} 00'51	0°54'57				
max. Earth dist.	11164 Oct 23 17:26	11° \mathbb{M} 01'52	10.47876 AU	conjunction	11171 Jan 13 16:08	29° \mathbb{Z} 44'34	1°47'35
morning rise	11164 Nov 10 08:00	13° \mathbb{M} 11'50		minimum elong	11171 Jan 13 16:09	29° \mathbb{Z} 44'35	1°48'12
	11164 Nov 25 14:11	15° \mathbb{M}		max. Earth dist.	11171 Jan 13 07:05	29° \mathbb{Z} 41'44	10.35098 AU
retrograde	11165 Feb 22 23:38	20° \mathbb{M} 57'31			11171 Jan 15 17:08	0° \mathbb{Z}	
opposition	11165 May 02 14:00	17° \mathbb{M} 31'19	1°20'57	morning rise	11171 Jan 31 07:32	1° \mathbb{Z} 56'56	
min. Earth dist.	11165 May 02 12:07	17° \mathbb{M} 31'42	8.45909 AU	retrograde	11171 May 13 22:17	9° \mathbb{Z} 42'37	
	11165 Jun 07 08:50	15° $\mathbb{R}\mathbb{M}$		opposition	11171 Jul 20 05:22	6° \mathbb{Z} 18'36	2°07'48
direct	11165 Jul 09 06:34	14° \mathbb{M} 07'05		min. Earth dist.	11171 Jul 20 12:39	6° \mathbb{Z} 17'09	8.35636 AU
	11165 Aug 09 21:50	15° \mathbb{M}		direct	11171 Sep 26 17:53	2° \mathbb{Z} 51'26	
evening set	11165 Oct 19 11:09	21° \mathbb{M} 44'04		evening set	11172 Jan 09 21:17	10° \mathbb{Z} 46'14	
conjunction	11165 Nov 06 04:10	23° \mathbb{M} 55'15	1°15'15	conjunction	11172 Jan 27 13:48	12° \mathbb{Z} 58'50	1°36'59
minimum elong	11165 Nov 06 04:07	23° \mathbb{M} 55'14	1°15'44	minimum elong	11172 Jan 27 13:51	12° \mathbb{Z} 58'51	1°37'31
max. Earth dist.	11165 Nov 06 04:49	23° \mathbb{M} 55'27	10.43959 AU	max. Earth dist.	11172 Jan 27 03:47	12° \mathbb{Z} 55'41	10.36195 AU
morning rise	11165 Nov 23 22:46	26° \mathbb{M} 06'58			11172 Feb 12 16:58	15° \mathbb{Z}	
	11165 Dec 28 08:19	0° \mathbb{Z}		morning rise	11172 Feb 14 03:45	15° \mathbb{Z} 10'44	
retrograde	11166 Mar 08 10:45	3° \mathbb{Z} 54'15		retrograde	11172 May 26 08:57	22° \mathbb{Z} 54'02	
opposition	11166 May 15 16:36	0° \mathbb{Z} 28'04	1°44'28	opposition	11172 Aug 01 15:38	19° \mathbb{Z} 30'42	1°51'24

min. Earth dist.	11172 Aug 01 23:55	19° \approx 29'03	8.37191 AU	minimum elong	11178 Apr 15 19:58	0° \mathfrak{B} 35'02	0°35'52
direct	11172 Oct 09 09:35	16° \approx 03'36		max. Earth dist.	11178 Apr 15 14:02	0° \mathfrak{B} 33'12	10.55828 AU
evening set	11173 Jan 22 17:53	23° \approx 57'58		morning rise	11178 May 02 21:08	2° \mathfrak{B} 41'13	
				retrograde	11178 Aug 12 01:33	10° \mathfrak{B} 09'28	
conjunction	11173 Feb 09 09:04	26° \approx 10'03	1°21'19	opposition	11178 Oct 19 15:13	6° \mathfrak{B} 48'48	-0°58'03
minimum elong	11173 Feb 09 09:06	26° \approx 10'03	1°21'45	min. Earth dist.	11178 Oct 19 19:24	6° \mathfrak{B} 47'59	8.57680 AU
max. Earth dist.	11173 Feb 08 22:10	26° \approx 06'37	10.38235 AU	direct	11178 Dec 28 12:52	3° \mathfrak{B} 24'58	
morning rise	11173 Feb 26 21:23	28° \approx 21'17		evening set	11179 Apr 11 13:23	11° \mathfrak{B} 02'19	
	11173 Mar 12 13:33	0° \mathfrak{H}					
retrograde	11173 Jun 08 17:04	6° \mathfrak{H} 01'43		conjunction	11179 Apr 28 14:28	13° \mathfrak{B} 08'04	-0°58'06
opposition	11173 Aug 15 01:41	2° \mathfrak{H} 39'02	1°29'14	minimum elong	11179 Apr 28 14:26	13° \mathfrak{B} 08'04	0°58'31
min. Earth dist.	11173 Aug 15 10:22	2° \mathfrak{H} 37'19	8.39625 AU	max. Earth dist.	11179 Apr 28 10:12	13° \mathfrak{B} 06'45	10.59441 AU
	11173 Sep 22 09:07	30° \mathfrak{R} \approx			11179 May 13 18:01	15° \mathfrak{B}	
direct	11173 Oct 23 02:13	29° \approx 12'11		morning rise	11179 May 15 13:31	15° \mathfrak{B} 13'13	
	11173 Nov 22 15:08	0° \mathfrak{H}		retrograde	11179 Aug 24 21:59	22° \mathfrak{B} 40'19	
evening set	11174 Feb 05 11:18	7° \mathfrak{H} 05'03		opposition	11179 Nov 01 19:04	19° \mathfrak{B} 19'40	-1°24'12
				min. Earth dist.	11179 Nov 01 21:06	19° \mathfrak{B} 19'16	8.61199 AU
conjunction	11174 Feb 23 00:47	9° \mathfrak{H} 16'22	1°01'30	direct	11180 Jan 10 17:24	15° \mathfrak{B} 56'31	
minimum elong	11174 Feb 23 00:49	9° \mathfrak{H} 16'23	1°01'48	evening set	11180 Apr 23 06:51	23° \mathfrak{B} 30'21	
max. Earth dist.	11174 Feb 22 13:48	9° \mathfrak{H} 12'55	10.41080 AU				
morning rise	11174 Mar 12 11:14	11° \mathfrak{H} 26'46		conjunction	11180 May 10 05:34	25° \mathfrak{B} 35'00	-1°17'44
retrograde	11174 Jun 21 21:44	19° \mathfrak{H} 04'11		minimum elong	11180 May 10 05:32	25° \mathfrak{B} 35'00	1°18'15
opposition	11174 Aug 28 11:16	15° \mathfrak{H} 42'04	1°02'35	max. Earth dist.	11180 May 10 04:09	25° \mathfrak{B} 34'34	10.62780 AU
min. Earth dist.	11174 Aug 28 19:27	15° \mathfrak{H} 40'27	8.42769 AU	morning rise	11180 May 27 02:44	27° \mathfrak{B} 39'13	
direct	11174 Nov 05 19:01	12° \mathfrak{H} 15'37			11180 Jun 16 07:03	0° \mathfrak{I}	
evening set	11175 Feb 19 00:38	20° \mathfrak{H} 06'04		retrograde	11180 Sep 05 16:33	5° \mathfrak{I} 05'37	
				opposition	11180 Nov 13 21:31	1° \mathfrak{I} 44'50	-1°46'12
conjunction	11175 Mar 08 12:08	22° \mathfrak{H} 16'25	0°38'39	min. Earth dist.	11180 Nov 13 20:55	1° \mathfrak{I} 44'57	8.64371 AU
minimum elong	11175 Mar 08 12:10	22° \mathfrak{H} 16'26	0°38'48		11180 Dec 08 00:04	30° \mathfrak{R} \mathfrak{B}	
max. Earth dist.	11175 Mar 08 02:09	22° \mathfrak{H} 13'18	10.44517 AU	direct	11181 Jan 22 20:00	28° \mathfrak{B} 22'20	
morning rise	11175 Mar 25 20:25	24° \mathfrak{H} 25'50			11181 Mar 08 08:26	0° \mathfrak{I}	
	11175 May 17 19:05	0° \mathfrak{Y}		evening set	11181 May 05 20:57	5° \mathfrak{I} 52'44	
retrograde	11175 Jul 05 01:34	2° \mathfrak{Y} 00'20					
	11175 Aug 24 00:02	30° \mathfrak{R} \mathfrak{H}		conjunction	11181 May 22 17:41	7° \mathfrak{I} 56'26	-1°33'37
opposition	11175 Sep 10 19:55	28° \mathfrak{H} 38'40	0°32'58	minimum elong	11181 May 22 17:39	7° \mathfrak{I} 56'25	1°34'13
min. Earth dist.	11175 Sep 11 02:56	28° \mathfrak{H} 37'18	8.46375 AU	max. Earth dist.	11181 May 22 19:28	7° \mathfrak{I} 56'59	10.65697 AU
direct	11175 Nov 19 09:10	25° \mathfrak{H} 12'46		morning rise	11181 Jun 08 13:20	9° \mathfrak{I} 59'51	
	11176 Feb 06 12:01	0° \mathfrak{Y}		retrograde	11181 Sep 18 11:58	17° \mathfrak{I} 25'59	
evening set	11176 Mar 03 09:54	3° \mathfrak{Y} 00'13		opposition	11181 Nov 26 22:32	14° \mathfrak{I} 04'58	-2°03'08
				min. Earth dist.	11181 Nov 26 19:31	14° \mathfrak{I} 05'32	8.67063 AU
conjunction	11176 Mar 20 19:09	5° \mathfrak{Y} 09'30	0°14'02	direct	11182 Feb 04 19:22	10° \mathfrak{I} 43'02	
minimum elong	11176 Mar 20 19:10	5° \mathfrak{Y} 09'30	0°14'02	evening set	11182 May 18 08:16	18° \mathfrak{I} 10'12	
behind sun begin	11176 Mar 20 15:35	5° \mathfrak{Y} 08'24					
behind sun end	11176 Mar 20 22:44	5° \mathfrak{Y} 10'37		conjunction	11182 Jun 04 03:30	20° \mathfrak{I} 13'10	-1°45'08
max. Earth dist.	11176 Mar 20 10:42	5° \mathfrak{Y} 06'53	10.48264 AU	minimum elong	11182 Jun 04 03:29	20° \mathfrak{I} 13'10	1°45'46
morning rise	11176 Apr 07 01:03	7° \mathfrak{Y} 17'50		max. Earth dist.	11182 Jun 04 07:48	20° \mathfrak{I} 14'29	10.68082 AU
retrograde	11176 Jul 17 04:16	14° \mathfrak{Y} 49'44		morning rise	11182 Jun 20 22:21	22° \mathfrak{I} 16'02	
opposition	11176 Sep 23 03:19	11° \mathfrak{Y} 28'30	0°01'57	retrograde	11182 Oct 01 06:17	29° \mathfrak{I} 42'16	
min. Earth dist.	11176 Sep 23 09:33	11° \mathfrak{Y} 27'18	8.50167 AU	opposition	11182 Dec 09 22:10	26° \mathfrak{I} 20'55	-2°14'21
desc. node	11176 Oct 16 11:40	9° \mathfrak{Y} 44'43		min. Earth dist.	11182 Dec 09 17:38	26° \mathfrak{I} 21'47	8.69171 AU
direct	11176 Dec 01 19:38	8° \mathfrak{Y} 03'14		direct	11183 Feb 17 14:47	22° \mathfrak{I} 59'28	
evening set	11177 Mar 16 15:05	15° \mathfrak{Y} 47'28			11183 May 27 09:31	0° \mathfrak{E}	
				evening set	11183 May 30 17:16	0° \mathfrak{E} 23'48	
conjunction	11177 Apr 02 21:44	17° \mathfrak{Y} 55'37	-0°11'11				
minimum elong	11177 Apr 02 21:44	17° \mathfrak{Y} 55'37	0°11'20	conjunction	11183 Jun 16 11:40	2° \mathfrak{E} 26'15	-1°51'49
behind sun begin	11177 Apr 02 16:30	17° \mathfrak{Y} 54'00		minimum elong	11183 Jun 16 11:39	2° \mathfrak{E} 26'15	1°52'28
behind sun end	11177 Apr 03 02:57	17° \mathfrak{Y} 57'13		max. Earth dist.	11183 Jun 16 17:24	2° \mathfrak{E} 28'00	10.69840 AU
max. Earth dist.	11177 Apr 02 14:31	17° \mathfrak{Y} 53'23	10.52073 AU	morning rise	11183 Jul 03 06:34	4° \mathfrak{E} 28'51	
morning rise	11177 Apr 20 01:12	20° \mathfrak{Y} 02'52		retrograde	11183 Oct 13 22:18	11° \mathfrak{E} 55'34	
retrograde	11177 Jul 30 03:40	27° \mathfrak{Y} 32'41		opposition	11183 Dec 22 20:27	8° \mathfrak{E} 33'49	-2°19'25
opposition	11177 Oct 06 09:51	24° \mathfrak{Y} 11'48	-0°28'53	min. Earth dist.	11183 Dec 22 14:38	8° \mathfrak{E} 34'56	8.70594 AU
min. Earth dist.	11177 Oct 06 15:14	24° \mathfrak{Y} 10'46	8.53964 AU	direct	11184 Mar 01 09:06	5° \mathfrak{E} 12'45	
direct	11177 Dec 15 05:17	20° \mathfrak{Y} 47'15		evening set	11184 Jun 11 00:47	12° \mathfrak{E} 34'43	
evening set	11178 Mar 29 16:11	28° \mathfrak{Y} 28'07					
	11178 Apr 11 03:02	0° \mathfrak{B}		conjunction	11184 Jun 27 19:10	14° \mathfrak{E} 36'58	-1°53'25
				minimum elong	11184 Jun 27 19:10	14° \mathfrak{E} 36'58	1°54'05
conjunction	11178 Apr 15 19:59	0° \mathfrak{B} 35'03	-0°35'34	max. Earth dist.	11184 Jun 28 02:37	14° \mathfrak{E} 39'15	10.70884 AU

morning rise	11184 Jul 14 14:47	16°☾39'32	minimum elong	11190 Sep 09 21:24	28°☿06'19	0°28'04
retrograde	11184 Oct 25 15:53	24°☾07'08	max. Earth dist.	11190 Sep 10 08:22	28°☿09'40	10.61654 AU
opposition	11185 Jan 03 17:31	20°☾44'57 -2°18'13		11190 Sep 25 10:29	0°♂	
min. Earth dist.	11185 Jan 03 10:05	20°☾46'21 8.71258 AU	morning rise	11190 Sep 27 08:08	0°♂13'42	
direct	11185 Mar 14 02:59	17°☾24'11	retrograde	11191 Jan 10 02:04	7°♂51'59	
evening set	11185 Jun 23 07:33	24°☾44'17	opposition	11191 Mar 20 16:36	4°♂26'59 -0°19'21	
			min. Earth dist.	11191 Mar 20 07:58	4°♂28'40 8.59964 AU	
conjunction	11185 Jul 10 02:50	26°☾46'38 -1°49'56	direct	11191 May 27 17:11	1°♂05'33	
minimum elong	11185 Jul 10 02:51	26°☾46'39 1°50'33	evening set	11191 Sep 05 10:43	8°♂29'14	
max. Earth dist.	11185 Jul 10 12:32	26°☾49'36 10.71160 AU				
morning rise	11185 Jul 26 23:48	28°☾49'29	conjunction	11191 Sep 22 20:57	10°♂36'47 -0°03'38	
	11185 Aug 05 23:35	0°♂	minimum elong	11191 Sep 22 20:58	10°♂36'47 0°03'34	
retrograde	11185 Nov 07 10:36	6°♂18'17	behind sun begin	11191 Sep 22 13:51	10°♂34'38	
opposition	11186 Jan 16 13:47	2°♂55'36 -2°10'48	behind sun end	11191 Sep 23 04:05	10°♂38'57	
min. Earth dist.	11186 Jan 16 04:31	2°♂57'22 8.71127 AU	max. Earth dist.	11191 Sep 23 06:51	10°♂39'48 10.58209 AU	
	11186 Mar 04 11:19	30°☿☾	morning rise	11191 Oct 10 10:20	12°♂45'19	
direct	11186 Mar 26 17:21	29°☾35'03	asc. node	11191 Nov 16 20:15	16°♂52'45	
	11186 Apr 17 17:00	0°♂	retrograde	11192 Jan 23 06:54	20°♂25'46	
evening set	11186 Jul 05 14:24	6°♂53'53	opposition	11192 Apr 01 14:10	17°♂00'30 0°11'10	
			min. Earth dist.	11192 Apr 01 06:45	17°♂01'57 8.56405 AU	
conjunction	11186 Jul 22 11:18	8°♂56'38 -1°41'30	direct	11192 Jun 08 09:48	13°♂38'33	
minimum elong	11186 Jul 22 11:20	8°♂56'38 1°42'03	evening set	11192 Sep 17 12:02	21°♂05'22	
max. Earth dist.	11186 Jul 22 22:43	9°♂00'07 10.70645 AU				
morning rise	11186 Aug 08 10:19	11°♂00'02	conjunction	11192 Oct 05 00:40	23°♂14'02 0°21'13	
	11186 Sep 13 22:22	15°♂	minimum elong	11192 Oct 05 00:39	23°♂14'01 0°21'26	
retrograde	11186 Nov 20 05:54	18°♂30'20	max. Earth dist.	11192 Oct 05 08:13	23°♂16'21 10.54583 AU	
opposition	11187 Jan 29 09:27	15°♂07'07 -1°57'30	morning rise	11192 Oct 22 16:19	25°♂23'36	
min. Earth dist.	11187 Jan 28 23:22	15°♂09'03 8.70197 AU		11192 Dec 04 01:24	0°♂	
	11187 Jan 30 22:43	15°☿♂	retrograde	11193 Feb 04 12:21	3°♂06'10	
direct	11187 Apr 08 06:55	11°♂46'39		11193 Apr 10 10:59	30°☿♂	
	11187 Jun 10 11:56	15°♂	opposition	11193 Apr 14 13:04	29°♂40'42 0°41'25	
evening set	11187 Jul 17 22:33	19°♂04'57	min. Earth dist.	11193 Apr 14 07:52	29°♂41'43 8.52756 AU	
			direct	11193 Jun 21 06:22	26°♂18'05	
conjunction	11187 Aug 03 21:30	21°♂08'20 -1°28'28		11193 Aug 27 17:29	0°♂	
minimum elong	11187 Aug 03 21:33	21°♂08'21 1°28'56	evening set	11193 Sep 30 18:14	3°♂48'36	
max. Earth dist.	11187 Aug 04 09:03	21°♂11'52 10.69357 AU				
morning rise	11187 Aug 20 23:12	23°♂12'32	conjunction	11193 Oct 18 08:53	5°♂58'17 0°45'07	
	11187 Nov 03 03:44	0°♂	minimum elong	11193 Oct 18 08:51	5°♂58'16 0°45'27	
retrograde	11187 Dec 03 03:03	0°♂44'32	max. Earth dist.	11193 Oct 18 13:27	5°♂59'41 10.50928 AU	
	11188 Jan 02 08:35	30°☿♂	morning rise	11193 Nov 05 02:14	8°♂08'45	
opposition	11188 Feb 11 04:47	27°♂20'51 -1°38'50		11194 Jan 16 13:50	15°♂	
min. Earth dist.	11188 Feb 10 18:57	27°♂22'44 8.68513 AU	retrograde	11194 Feb 17 19:41	15°♂53'09	
direct	11188 Apr 19 20:06	24°♂00'18		11194 Mar 22 06:05	15°☿♂	
	11188 Jul 18 04:01	0°♂	opposition	11194 Apr 27 13:11	12°♂27'34 1°09'53	
evening set	11188 Jul 29 08:39	1°♂18'48	min. Earth dist.	11194 Apr 27 10:27	12°♂28'07 8.49157 AU	
			direct	11194 Jul 04 05:25	9°♂04'13	
conjunction	11188 Aug 15 10:08	3°♂23'03 -1°11'22		11194 Sep 30 07:33	15°♂	
minimum elong	11188 Aug 15 10:10	3°♂23'04 1°11'43	evening set	11194 Oct 14 04:59	16°♂38'46	
max. Earth dist.	11188 Aug 15 21:13	3°♂26'27 10.67360 AU				
morning rise	11188 Sep 01 14:53	5°♂28'14	conjunction	11194 Oct 31 21:15	18°♂49'21 1°06'58	
retrograde	11188 Dec 15 00:32	13°♂02'09	minimum elong	11194 Oct 31 21:13	18°♂49'20 1°07'25	
opposition	11189 Feb 23 00:20	9°♂38'00 -1°15'35	max. Earth dist.	11194 Oct 31 23:08	18°♂49'56 10.47362 AU	
min. Earth dist.	11189 Feb 22 15:03	9°♂39'48 8.66166 AU	morning rise	11194 Nov 18 15:37	21°♂00'34	
direct	11189 May 02 09:44	6°♂17'16	retrograde	11195 Mar 03 04:41	28°♂46'29	
evening set	11189 Aug 10 21:22	13°♂36'44	opposition	11195 May 10 14:49	25°♂20'53 1°35'05	
			min. Earth dist.	11195 May 10 14:11	25°♂21'00 8.45700 AU	
conjunction	11189 Aug 28 01:48	15°♂42'00 -0°50'55	direct	11195 Jul 17 07:28	21°♂56'45	
minimum elong	11189 Aug 28 01:49	15°♂42'01 0°51'08	evening set	11195 Oct 27 19:44	29°♂35'33	
max. Earth dist.	11189 Aug 28 12:50	15°♂45'22 10.64753 AU		11195 Oct 31 03:49	0°♂	
morning rise	11189 Sep 14 09:39	17°♂48'16				
retrograde	11189 Dec 27 23:29	25°♂24'21	conjunction	11195 Nov 14 13:09	1°♂46'54 1°25'34	
opposition	11190 Mar 07 20:13	21°♂59'44 -0°48'43	minimum elong	11195 Nov 14 13:07	1°♂46'53 1°26'07	
min. Earth dist.	11190 Mar 07 11:11	22°♂01'29 8.63271 AU	max. Earth dist.	11195 Nov 14 12:31	1°♂46'42 10.43980 AU	
direct	11190 May 15 01:23	18°♂38'42	morning rise	11195 Dec 02 07:48	3°♂58'41	
evening set	11190 Aug 23 13:54	25°♂59'54	retrograde	11196 Mar 15 14:44	11°♂45'50	
			opposition	11196 May 22 18:06	8°♂20'20 1°55'40	
conjunction	11190 Sep 09 21:23	28°♂06'18 -0°27'59	min. Earth dist.	11196 May 22 19:16	8°♂20'06 8.42500 AU	

direct	11196 Jul 29 12:31	4° \nearrow 55'28		opposition	11202 Aug 09 16:36	27° \approx 18'07	1°39'17
evening set	11196 Nov 09 14:14	12° \nearrow 38'32		min. Earth dist.	11202 Aug 10 01:10	27° \approx 16'24	8.38879 AU
				direct	11202 Oct 17 15:32	23° \approx 50'55	
conjunction	11196 Nov 27 08:18	14° \nearrow 50'31	1°39'54		11203 Jan 16 12:21	0° \bowtie	
minimum elong	11196 Nov 27 08:16	14° \nearrow 50'30	1°40'31	evening set	11203 Jan 30 22:59	1° \bowtie 43'51	
max. Earth dist.	11196 Nov 27 05:10	14° \nearrow 49'32	10.40962 AU				
morning rise	11196 Dec 15 02:46	17° \nearrow 02'42		conjunction	11203 Feb 17 13:23	3° \bowtie 55'26	1°10'25
retrograde	11197 Mar 29 02:58	24° \nearrow 50'35		minimum elong	11203 Feb 17 13:26	3° \bowtie 55'27	1°10'46
opposition	11197 Jun 04 23:00	21° \nearrow 25'18	2°10'24	max. Earth dist.	11203 Feb 17 02:29	3° \bowtie 52'00	10.39962 AU
min. Earth dist.	11197 Jun 05 02:10	21° \nearrow 24'40	8.39785 AU	morning rise	11203 Mar 07 00:33	6° \bowtie 06'06	
direct	11197 Aug 11 19:09	17° \nearrow 59'43		retrograde	11203 Jun 16 14:02	13° \bowtie 44'20	
evening set	11197 Nov 23 11:35	25° \nearrow 46'43		opposition	11203 Aug 23 01:38	10° \bowtie 21'38	1°14'29
				min. Earth dist.	11203 Aug 23 10:11	10° \bowtie 19'56	8.41341 AU
conjunction	11197 Dec 11 05:51	27° \nearrow 59'10	1°49'08	direct	11203 Oct 31 06:59	6° \bowtie 54'39	
minimum elong	11197 Dec 11 05:50	27° \nearrow 59'10	1°49'47	evening set	11204 Feb 13 13:16	14° \bowtie 45'42	
max. Earth dist.	11197 Dec 10 23:45	27° \nearrow 57'16	10.38557 AU				
	11197 Dec 27 10:01	0° \bowtie		conjunction	11204 Mar 02 01:47	16° \bowtie 56'27	0°48'47
morning rise	11197 Dec 28 23:48	0° \bowtie 11'35		minimum elong	11204 Mar 02 01:49	16° \bowtie 56'28	0°49'00
retrograde	11198 Apr 11 16:07	7° \bowtie 59'30		max. Earth dist.	11204 Mar 01 15:15	16° \bowtie 53'09	10.42807 AU
opposition	11198 Jun 18 05:36	4° \bowtie 34'32	2°18'25	morning rise	11204 Mar 19 10:59	19° \bowtie 06'15	
min. Earth dist.	11198 Jun 18 11:04	4° \bowtie 33'26	8.37783 AU	retrograde	11204 Jun 28 18:04	26° \bowtie 41'37	
direct	11198 Aug 25 04:28	1° \bowtie 08'19		opposition	11204 Sep 04 09:59	23° \bowtie 19'23	0°46'02
evening set	11198 Dec 07 10:35	8° \bowtie 58'35		min. Earth dist.	11204 Sep 04 18:27	23° \bowtie 17'43	8.44475 AU
				direct	11204 Nov 12 20:44	19° \bowtie 52'47	
conjunction	11198 Dec 25 04:35	11° \bowtie 11'16	1°52'40	evening set	11205 Feb 25 23:47	27° \bowtie 41'15	
minimum elong	11198 Dec 25 04:35	11° \bowtie 11'16	1°53'20				
max. Earth dist.	11198 Dec 24 19:46	11° \bowtie 08'30	10.36963 AU	conjunction	11205 Mar 15 10:01	29° \bowtie 51'00	0°24'50
morning rise	11199 Jan 11 21:41	13° \bowtie 23'44		minimum elong	11205 Mar 15 10:02	29° \bowtie 51'00	0°24'54
retrograde	11199 Apr 25 03:23	21° \bowtie 10'53		max. Earth dist.	11205 Mar 14 23:53	29° \bowtie 47'51	10.46238 AU
opposition	11199 Jul 01 13:27	17° \bowtie 46'20	2°19'11		11205 Mar 16 14:50	0° γ	
min. Earth dist.	11199 Jul 01 20:50	17° \bowtie 44'51	8.36650 AU	morning rise	11205 Apr 01 17:04	1° γ 59'48	
direct	11199 Sep 07 18:17	14° \bowtie 19'36		retrograde	11205 Jul 11 19:34	9° γ 32'26	
evening set	11199 Dec 21 09:56	22° \bowtie 12'12		opposition	11205 Sep 17 17:18	6° γ 10'37	0°15'30
				min. Earth dist.	11205 Sep 18 00:45	6° γ 09'10	8.48121 AU
conjunction	11200 Jan 08 03:27	24° \bowtie 24'55	1°50'16	direct	11205 Nov 26 08:48	2° γ 44'36	
minimum elong	11200 Jan 08 03:29	24° \bowtie 24'55	1°50'55	evening set	11206 Mar 11 06:05	10° γ 29'57	
max. Earth dist.	11200 Jan 07 16:43	24° \bowtie 21'33	10.36305 AU	desc. node	11206 Mar 25 09:28	12° γ 14'46	
morning rise	11200 Jan 25 19:30	26° \bowtie 37'12					
	11200 Feb 23 23:17	0° \approx		conjunction	11206 Mar 28 13:47	12° γ 38'33	-0°00'13
retrograde	11200 May 07 13:17	4° \approx 22'55		minimum elong	11206 Mar 28 13:47	12° γ 38'33	0°00'19
opposition	11200 Jul 13 22:10	0° \approx 58'48	2°12'36	behind sun begin	11206 Mar 28 06:41	12° γ 36'22	
min. Earth dist.	11200 Jul 14 06:39	0° \approx 57'07	8.36467 AU	behind sun end	11206 Mar 28 20:54	12° γ 40'44	
	11200 Jul 26 08:12	30° \bowtie		max. Earth dist.	11206 Mar 28 05:20	12° γ 35'56	10.50082 AU
direct	11200 Sep 20 09:29	27° \bowtie 31'44		morning rise	11206 Apr 14 18:31	14° γ 46'16	
	11200 Nov 13 22:29	0° \approx		retrograde	11206 Jul 24 18:13	22° γ 16'31	
evening set	11201 Jan 03 08:26	5° \approx 25'32		opposition	11206 Sep 30 23:33	18° γ 55'04	-0°15'32
				min. Earth dist.	11206 Oct 01 04:59	18° γ 54'01	8.52096 AU
conjunction	11201 Jan 21 01:17	7° \approx 38'06	1°42'04	direct	11206 Dec 09 19:43	15° γ 29'47	
minimum elong	11201 Jan 21 01:19	7° \approx 38'06	1°42'38	evening set	11207 Mar 24 07:58	23° γ 11'39	
max. Earth dist.	11201 Jan 20 13:47	7° \approx 34'29	10.36617 AU				
morning rise	11201 Feb 07 15:59	9° \approx 50'02		conjunction	11207 Apr 10 13:06	25° γ 19'02	-0°25'02
	11201 Mar 27 04:24	15° \approx		minimum elong	11207 Apr 10 13:05	25° γ 19'02	0°25'17
retrograde	11201 May 20 23:23	17° \approx 33'39		max. Earth dist.	11207 Apr 10 07:17	25° γ 17'14	10.54143 AU
	11201 Jul 16 18:01	15° \bowtie		morning rise	11207 Apr 27 15:22	27° γ 25'37	
opposition	11201 Jul 27 07:21	14° \approx 10'00	1°59'03		11207 May 19 17:33	0° \bowtie	
min. Earth dist.	11201 Jul 27 15:57	14° \approx 08'17	8.37227 AU	retrograde	11207 Aug 06 16:53	4° \bowtie 53'56	
direct	11201 Oct 04 00:39	10° \approx 42'46		opposition	11207 Oct 14 04:30	1° \bowtie 32'47	-0°45'31
	11201 Dec 16 19:54	15° \approx		min. Earth dist.	11207 Oct 14 07:40	1° \bowtie 32'11	8.56196 AU
evening set	11202 Jan 17 05:07	18° \approx 36'40			11207 Nov 04 00:14	30° \bowtie	
				direct	11207 Dec 23 03:13	28° γ 08'19	
conjunction	11202 Feb 03 20:57	20° \approx 48'51	1°28'31		11208 Feb 08 20:51	0° \bowtie	
minimum elong	11202 Feb 03 21:00	20° \approx 48'52	1°29'00	evening set	11208 Apr 05 06:02	5° \bowtie 46'33	
max. Earth dist.	11202 Feb 03 09:40	20° \approx 45'18	10.37860 AU				
morning rise	11202 Feb 21 09:58	23° \approx 00'14		conjunction	11208 Apr 22 08:29	7° \bowtie 52'43	-0°48'27
	11202 May 06 15:08	0° \bowtie		minimum elong	11208 Apr 22 08:27	7° \bowtie 52'42	0°48'49
retrograde	11202 Jun 03 08:19	0° \bowtie 41'17		max. Earth dist.	11208 Apr 22 05:26	7° \bowtie 51'46	10.58213 AU
	11202 Jul 01 06:52	30° \bowtie		morning rise	11208 May 09 08:21	9° \bowtie 58'10	

	11208 Jun 25 14:50	15°♄		11214 Sep 28 00:56	0°♄
retrograde	11208 Aug 18 14:04	17°♄24'59	retrograde	11214 Nov 02 00:27	1°♄00'22
	11208 Oct 14 00:35	15°♄		11214 Dec 07 14:16	30°♄
opposition	11208 Oct 26 07:59	14°♄04'04 -1°13'02	opposition	11215 Jan 11 02:21	27°♄38'37 -2°14'37
min. Earth dist.	11208 Oct 26 09:25	14°♄03'48 8.60218 AU	min. Earth dist.	11215 Jan 10 18:14	27°♄40'09 8.73764 AU
direct	11209 Jan 04 06:45	10°♄40'28	direct	11215 Mar 21 07:12	24°♄18'38
	11209 Mar 20 09:33	15°♄		11215 Jun 16 11:47	0°♄
evening set	11209 Apr 18 00:23	18°♄15'03	evening set	11215 Jun 30 09:15	1°♄37'04
conjunction	11209 May 05 00:10	20°♄20'02 -1°09'24	conjunction	11215 Jul 17 05:04	3°♄39'17 -1°45'45
minimum elong	11209 May 05 00:07	20°♄20'01 1°09'52	minimum elong	11215 Jul 17 05:05	3°♄39'18 1°46'21
max. Earth dist.	11209 May 04 23:06	20°♄19'42 10.62100 AU	max. Earth dist.	11215 Jul 17 14:26	3°♄42'09 10.73451 AU
morning rise	11209 May 21 21:58	22°♄24'28	morning rise	11215 Aug 03 03:04	5°♄42'08
retrograde	11209 Aug 31 08:41	29°♄50'16	retrograde	11215 Nov 14 17:41	13°♄10'41
opposition	11209 Nov 08 10:21	26°♄29'30 -1°36'53	opposition	11216 Jan 23 21:50	9°♄48'26 -2°03'59
min. Earth dist.	11209 Nov 08 10:20	26°♄29'30 8.63981 AU	min. Earth dist.	11216 Jan 23 13:30	9°♄50'01 8.73128 AU
direct	11210 Jan 17 08:32	23°♄06'43	direct	11216 Apr 01 22:18	6°♄28'33
	11210 Apr 25 08:38	0°♄	evening set	11216 Jul 11 16:15	13°♄46'11
evening set	11210 Apr 30 15:10	0°♄37'47		11216 Jul 21 21:13	15°♄
conjunction	11210 May 17 12:34	2°♄41'41 -1°26'57	conjunction	11216 Jul 28 14:01	15°♄48'59 -1°34'48
minimum elong	11210 May 17 12:31	2°♄41'40 1°27'31	minimum elong	11216 Jul 28 14:03	15°♄49'00 1°35'19
max. Earth dist.	11210 May 17 13:19	2°♄41'55 10.65639 AU	max. Earth dist.	11216 Jul 29 00:17	15°♄52'07 10.72326 AU
morning rise	11210 Jun 03 08:50	4°♄45'15	morning rise	11216 Aug 14 14:20	17°♄52'31
retrograde	11210 Sep 13 02:23	12°♄10'32	retrograde	11216 Nov 26 13:55	25°♄22'52
opposition	11210 Nov 21 11:19	8°♄49'48 -1°56'04	opposition	11217 Feb 04 16:57	22°♄00'03 -1°47'45
min. Earth dist.	11210 Nov 21 09:25	8°♄50'09 8.67320 AU	min. Earth dist.	11217 Feb 04 07:55	22°♄01'46 8.71487 AU
direct	11211 Jan 30 08:58	5°♄27'47	direct	11217 Apr 14 12:05	18°♄40'08
evening set	11211 May 13 03:01	12°♄55'32	evening set	11217 Jul 24 00:57	25°♄57'45
conjunction	11211 May 29 22:41	14°♄58'34 -1°40'25	conjunction	11217 Aug 10 01:14	28°♄01'22 -1°19'32
minimum elong	11211 May 29 22:39	14°♄58'33 1°41'02	minimum elong	11217 Aug 10 01:16	28°♄01'23 1°19'57
max. Earth dist.	11211 May 30 01:49	14°♄59'32 10.68680 AU	max. Earth dist.	11217 Aug 10 12:11	28°♄04'43 10.70263 AU
morning rise	11211 Jun 15 17:54	17°♄01'26		11217 Aug 26 08:44	0°♄
retrograde	11211 Sep 25 19:40	24°♄26'38	morning rise	11217 Aug 27 04:19	0°♄05'51
opposition	11211 Dec 04 10:40	21°♄05'47 -2°09'49	retrograde	11217 Dec 09 11:31	7°♄38'14
min. Earth dist.	11211 Dec 04 06:24	21°♄06'36 8.70084 AU	opposition	11218 Feb 17 12:03	4°♄14'49 -1°26'35
direct	11212 Feb 12 05:55	17°♄44'30	min. Earth dist.	11218 Feb 17 02:46	4°♄16'36 8.68985 AU
evening set	11212 May 24 12:28	25°♄09'14	direct	11218 Apr 27 00:21	0°♄54'40
			evening set	11218 Aug 05 12:10	8°♄13'02
conjunction	11212 Jun 10 07:09	27°♄11'38 -1°49'15	conjunction	11218 Aug 22 15:13	10°♄17'40 -1°00'35
minimum elong	11212 Jun 10 07:08	27°♄11'38 1°49'55	minimum elong	11218 Aug 22 15:15	10°♄17'41 1°00'51
max. Earth dist.	11212 Jun 10 13:16	27°♄13'31 10.71085 AU	max. Earth dist.	11218 Aug 23 01:48	10°♄20'54 10.67425 AU
morning rise	11212 Jun 27 01:49	29°♄14'04	morning rise	11218 Sep 08 21:25	12°♄23'15
	11212 Jul 03 12:42	0°♄	retrograde	11218 Dec 22 10:11	19°♄57'51
retrograde	11212 Oct 07 12:59	6°♄39'35	opposition	11219 Mar 02 07:28	16°♄33'48 -1°01'20
opposition	11212 Dec 16 08:56	3°♄18'32 -2°17'38	min. Earth dist.	11219 Mar 01 22:55	16°♄35'27 8.65791 AU
min. Earth dist.	11212 Dec 16 02:23	3°♄19'46 8.72145 AU	direct	11219 May 09 14:34	13°♄13'13
	11213 Feb 17 12:29	30°♄	evening set	11219 Aug 18 02:42	20°♄33'08
direct	11213 Feb 24 00:44	29°♄57'51			
	11213 Mar 02 12:17	0°♄			
evening set	11213 Jun 05 20:05	7°♄19'56	conjunction	11219 Sep 04 08:35	22°♄38'54 -0°38'43
			minimum elong	11219 Sep 04 08:36	22°♄38'55 0°38'51
conjunction	11213 Jun 22 14:24	9°♄21'59 -1°53'08	max. Earth dist.	11219 Sep 04 17:38	22°♄41'40 10.63980 AU
minimum elong	11213 Jun 22 14:24	9°♄21'59 1°53'49	morning rise	11219 Sep 21 17:57	24°♄45'40
max. Earth dist.	11213 Jun 22 22:41	9°♄24'31 10.72743 AU		11219 Nov 10 21:38	0°♄
morning rise	11213 Jul 09 09:20	11°♄24'15	retrograde	11220 Jan 04 11:02	2°♄22'35
retrograde	11213 Oct 20 07:27	18°♄50'27		11220 Feb 29 14:27	30°♄
opposition	11213 Dec 29 06:11	15°♄29'06 -2°19'14	opposition	11220 Mar 14 03:27	28°♄57'56 -0°33'02
min. Earth dist.	11213 Dec 28 22:24	15°♄30'34 8.73402 AU	min. Earth dist.	11220 Mar 13 20:20	28°♄59'19 8.62087 AU
direct	11214 Mar 08 16:57	12°♄08'52	direct	11220 May 21 05:24	25°♄36'46
evening set	11214 Jun 18 02:49	19°♄28'48		11220 Aug 03 15:19	0°♄
			evening set	11220 Aug 29 21:06	2°♄58'59
conjunction	11214 Jul 04 21:27	21°♄30'47 -1°51'57	conjunction	11220 Sep 16 05:53	5°♄05'56 -0°14'55
minimum elong	11214 Jul 04 21:28	21°♄30'47 1°52'36	minimum elong	11220 Sep 16 05:53	5°♄05'56 0°14'55
max. Earth dist.	11214 Jul 05 06:36	21°♄33'35 10.73565 AU	behind sun begin	11220 Sep 16 03:14	5°♄05'08
morning rise	11214 Jul 21 17:34	23°♄33'12			

behind sun end	11220 Sep 16 08:33	5°♂06'45		conjunction	11226 Dec 05 03:56	22°♂10'01	1°45'33
max. Earth dist.	11220 Sep 16 13:48	5°♂08'21	10.60107 AU	minimum elong	11226 Dec 05 03:54	22°♂10'01	1°46'12
morning rise	11220 Oct 03 18:08	7°♂13'55		max. Earth dist.	11226 Dec 04 22:55	22°♂08'27	10.38046 AU
retrograde	11221 Jan 16 12:51	14°♂53'11		morning rise	11226 Dec 22 22:22	24°♂22'31	
opposition	11221 Mar 27 00:18	11°♂28'00	-0°02'56		11227 Feb 14 00:01	0°♂	
min. Earth dist.	11221 Mar 26 18:15	11°♂29'11	8.58058 AU	retrograde	11227 Apr 05 17:10	2°♂10'56	
asc. node	11221 May 01 17:46	8°♂59'12			11227 May 27 13:39	30°♂♂	
direct	11221 Jun 02 22:21	8°♂06'08		opposition	11227 Jun 12 11:04	28°♂45'13	2°15'39
evening set	11221 Sep 11 19:47	15°♂31'21		min. Earth dist.	11227 Jun 12 15:09	28°♂44'24	8.37180 AU
				direct	11227 Aug 19 09:48	25°♂18'45	
conjunction	11221 Sep 29 07:23	17°♂39'30	0°09'52		11227 Nov 04 09:48	0°♂	
minimum elong	11221 Sep 29 07:22	17°♂39'30	0°10'01	evening set	11227 Dec 01 07:51	3°♂07'56	
behind sun begin	11221 Sep 29 01:35	17°♂37'44					
behind sun end	11221 Sep 29 13:08	17°♂41'15		conjunction	11227 Dec 19 02:10	5°♂20'40	1°51'45
max. Earth dist.	11221 Sep 29 14:22	17°♂41'38	10.55981 AU	minimum elong	11227 Dec 19 02:09	5°♂20'40	1°52'26
morning rise	11221 Oct 16 22:04	19°♂48'36		max. Earth dist.	11227 Dec 18 19:47	5°♂18'40	10.36281 AU
retrograde	11222 Jan 29 16:39	27°♂30'14		morning rise	11228 Jan 05 19:47	7°♂33'17	
opposition	11222 Apr 08 22:13	24°♂04'35	0°27'35	retrograde	11228 Apr 18 05:34	15°♂21'18	
min. Earth dist.	11222 Apr 08 17:06	24°♂05'35	8.53874 AU	opposition	11228 Jun 24 18:27	11°♂56'03	2°19'46
direct	11222 Jun 15 18:27	20°♂41'57		min. Earth dist.	11228 Jun 24 23:37	11°♂55'00	8.35881 AU
evening set	11222 Sep 24 23:27	28°♂10'46		direct	11228 Aug 31 21:23	8°♂29'09	
	11222 Oct 09 20:22	0°♂		evening set	11228 Dec 14 07:18	16°♂21'04	
conjunction	11222 Oct 12 13:22	0°♂20'04	0°34'16	conjunction	11229 Jan 01 01:20	18°♂33'56	1°52'05
minimum elong	11222 Oct 12 13:21	0°♂20'04	0°34'33	minimum elong	11229 Jan 01 01:20	18°♂33'57	1°52'45
max. Earth dist.	11222 Oct 12 18:58	0°♂21'48	10.51774 AU	max. Earth dist.	11228 Dec 31 17:25	18°♂31'27	10.35452 AU
morning rise	11222 Oct 30 05:53	2°♂30'12		morning rise	11229 Jan 18 17:53	20°♂46'27	
retrograde	11223 Feb 12 00:08	10°♂13'59		retrograde	11229 May 01 17:52	28°♂33'20	
opposition	11223 Apr 21 21:23	6°♂48'01	0°57'03	opposition	11229 Jul 08 02:55	25°♂08'40	2°16'31
min. Earth dist.	11223 Apr 21 17:35	6°♂48'46	8.49717 AU	min. Earth dist.	11229 Jul 08 09:28	25°♂07'21	8.35534 AU
direct	11223 Jun 28 14:52	3°♂24'34		direct	11229 Sep 14 10:18	21°♂41'31	
evening set	11223 Oct 08 07:52	10°♂57'28		evening set	11229 Dec 28 06:47	29°♂35'13	
					11229 Dec 31 15:02	0°♂	
conjunction	11223 Oct 25 23:32	13°♂07'46	0°57'12	conjunction	11230 Jan 15 00:07	1°♂48'00	1°46'30
minimum elong	11223 Oct 25 23:30	13°♂07'45	0°57'37	minimum elong	11230 Jan 15 00:09	1°♂48'01	1°47'06
max. Earth dist.	11223 Oct 26 02:34	13°♂08'42	10.47682 AU	max. Earth dist.	11230 Jan 14 14:34	1°♂45'00	10.35607 AU
	11223 Nov 10 03:35	15°♂		morning rise	11230 Feb 01 15:25	4°♂00'14	
morning rise	11223 Nov 12 17:22	15°♂18'47		retrograde	11230 May 15 05:30	11°♂45'17	
retrograde	11224 Feb 25 09:31	23°♂04'28		opposition	11230 Jul 21 12:23	8°♂21'18	2°06'03
opposition	11224 May 03 22:20	19°♂38'19	1°23'58	min. Earth dist.	11230 Jul 21 20:24	8°♂19'42	8.36165 AU
min. Earth dist.	11224 May 03 20:42	19°♂38'39	8.45788 AU	direct	11230 Sep 28 01:02	4°♂54'05	
direct	11224 Jul 10 14:01	16°♂14'01		evening set	11231 Jan 11 04:53	12°♂48'27	
evening set	11224 Oct 20 20:40	23°♂51'15					
conjunction	11224 Nov 07 13:35	26°♂02'26	1°17'27	conjunction	11231 Jan 28 21:10	15°♂00'56	1°35'18
minimum elong	11224 Nov 07 13:33	26°♂02'25	1°17'57	minimum elong	11231 Jan 28 21:13	15°♂00'56	1°35'49
max. Earth dist.	11224 Nov 07 13:33	26°♂02'25	10.43909 AU	max. Earth dist.	11231 Jan 28 10:13	14°♂57'29	10.36740 AU
morning rise	11224 Nov 25 08:13	28°♂14'09			11231 Jan 28 18:13	15°♂	
	11224 Dec 10 04:51	0°♂		morning rise	11231 Feb 15 11:04	17°♂12'42	
retrograde	11225 Mar 09 18:30	6°♂01'19		retrograde	11231 May 28 14:42	24°♂55'24	
opposition	11225 May 17 00:59	2°♂35'10	1°46'52	opposition	11231 Aug 03 22:16	21°♂32'06	1°48'58
min. Earth dist.	11225 May 17 01:47	2°♂35'00	8.42274 AU	min. Earth dist.	11231 Aug 04 06:58	21°♂30'22	8.37742 AU
	11225 Jun 22 19:56	30°♂♂		direct	11231 Oct 11 17:29	18°♂05'00	
direct	11225 Jul 23 18:20	29°♂10'01		evening set	11232 Jan 25 00:45	25°♂58'55	
	11225 Aug 23 11:32	0°♂					
evening set	11225 Nov 03 13:36	6°♂51'37		conjunction	11232 Feb 11 15:46	28°♂10'51	1°19'08
				minimum elong	11232 Feb 11 15:48	28°♂10'52	1°19'33
conjunction	11225 Nov 21 07:21	9°♂03'30	1°33'53	max. Earth dist.	11232 Feb 11 04:31	28°♂07'19	10.38792 AU
minimum elong	11225 Nov 21 07:19	9°♂03'29	1°34'28		11232 Feb 26 04:48	0°♂	
max. Earth dist.	11225 Nov 21 04:24	9°♂02'35	10.40639 AU	morning rise	11232 Feb 29 04:01	0°♂21'59	
morning rise	11225 Dec 09 02:12	11°♂15'43		retrograde	11232 Jun 09 21:24	8°♂01'55	
retrograde	11226 Mar 23 05:06	19°♂03'49		opposition	11232 Aug 16 07:54	4°♂39'16	1°26'16
opposition	11226 May 30 05:10	15°♂37'49	2°04'26	min. Earth dist.	11232 Aug 16 16:20	4°♂37'36	8.40178 AU
min. Earth dist.	11226 May 30 08:03	15°♂37'14	8.39353 AU	direct	11232 Oct 24 10:28	1°♂12'28	
direct	11226 Aug 06 00:50	12°♂11'55		evening set	11233 Feb 06 17:31	9°♂04'53	
evening set	11226 Nov 17 09:43	19°♂57'37					
				conjunction	11233 Feb 24 06:57	11°♂16'05	0°58'57

minimum elong	11233 Feb 24 07:00	11° H 16'06	0°59'14	evening set	11239 Apr 25 10:28	25° S 25'29	
max. Earth dist.	11233 Feb 23 20:26	11° H 12'47	10.41633 AU				
morning rise	11233 Mar 13 17:15	13° H 26'22		conjunction	11239 May 12 09:07	27° S 30'04	-1°19'35
retrograde	11233 Jun 23 03:47	21° H 03'23		minimum elong	11239 May 12 09:05	27° S 30'04	1°20'07
opposition	11233 Aug 29 17:09	17° H 41'18	0°59'15	max. Earth dist.	11239 May 12 08:14	27° S 29'48	10.63038 AU
min. Earth dist.	11233 Aug 30 00:43	17° H 39'49	8.43313 AU	morning rise	11239 May 29 06:04	29° S 34'13	
direct	11233 Nov 07 01:01	14° H 14'57			11239 Jun 01 19:53	0° II	
evening set	11234 Feb 20 06:28	22° H 04'58		retrograde	11239 Sep 07 22:11	7° II 00'43	
				opposition	11239 Nov 16 02:04	3° II 39'58	-1°48'11
conjunction	11234 Mar 09 17:54	24° H 15'13	0°35'52	min. Earth dist.	11239 Nov 16 01:22	3° II 40'06	8.64536 AU
minimum elong	11234 Mar 09 17:56	24° H 15'14	0°36'00	direct	11240 Jan 25 00:17	0° II 17'35	
max. Earth dist.	11234 Mar 09 08:45	24° H 12'22	10.45068 AU	evening set	11240 May 07 00:37	7° II 47'52	
morning rise	11234 Mar 27 01:55	26° H 24'31					
	11234 Apr 27 11:49	0° Y		conjunction	11240 May 23 21:14	9° II 51'33	-1°34'59
retrograde	11234 Jul 06 07:40	3° Y 58'39		minimum elong	11240 May 23 21:12	9° II 51'33	1°35'35
opposition	11234 Sep 12 01:34	0° Y 37'04	0°29'27	max. Earth dist.	11240 May 23 22:45	9° II 52'01	10.65759 AU
min. Earth dist.	11234 Sep 12 08:21	0° Y 35'44	8.46935 AU	morning rise	11240 Jun 09 16:49	11° II 54'58	
	11234 Sep 20 00:12	30° R H		retrograde	11240 Sep 19 16:55	19° II 21'16	
direct	11234 Nov 20 14:05	27° H 11'15		opposition	11240 Nov 28 03:06	16° II 00'18	-2°04'30
	11235 Jan 18 19:00	0° Y		min. Earth dist.	11240 Nov 28 00:48	16° II 00'44	8.67027 AU
evening set	11235 Mar 05 15:19	4° Y 58'16		direct	11241 Feb 05 21:46	12° II 38'26	
				evening set	11241 May 19 12:02	20° II 05'39	
conjunction	11235 Mar 23 00:21	7° Y 07'26	0°11'11				
minimum elong	11235 Mar 23 00:22	7° Y 07'26	0°11'10	conjunction	11241 Jun 05 07:08	22° II 08'37	-1°45'57
behind sun begin	11235 Mar 22 19:03	7° Y 05'48		minimum elong	11241 Jun 05 07:07	22° II 08'37	1°46'36
behind sun end	11235 Mar 23 05:40	7° Y 09'04		max. Earth dist.	11241 Jun 05 10:24	22° II 09'37	10.67944 AU
max. Earth dist.	11235 Mar 22 16:12	7° Y 04'54	10.48847 AU	morning rise	11241 Jun 22 02:06	24° II 11'32	
morning rise	11235 Apr 09 06:01	9° Y 15'39			11241 Aug 18 21:21	0° S	
retrograde	11235 Jul 19 08:38	16° Y 47'11		retrograde	11241 Oct 02 09:38	1° S 38'04	
desc. node	11235 Sep 06 15:53	14° Y 50'30			11241 Nov 17 07:34	30° R II	
opposition	11235 Sep 25 08:49	13° Y 26'01	-0°01'34	opposition	11241 Dec 11 02:59	28° II 16'44	-2°15'01
min. Earth dist.	11235 Sep 25 15:21	13° Y 24'45	8.50775 AU	min. Earth dist.	11241 Dec 10 23:11	28° II 17'27	8.68934 AU
direct	11235 Dec 04 01:34	10° Y 00'50		direct	11242 Feb 18 19:27	24° II 55'18	
evening set	11236 Mar 17 19:55	17° Y 44'35			11242 May 11 16:43	0° S	
				evening set	11242 May 31 21:08	2° S 19'47	
conjunction	11236 Apr 04 02:16	19° Y 52'34	-0°13'58				
minimum elong	11236 Apr 04 02:15	19° Y 52'34	0°14'08	conjunction	11242 Jun 17 15:33	4° S 22'18	-1°52'03
behind sun begin	11236 Apr 03 22:45	19° Y 51'29		minimum elong	11242 Jun 17 15:32	4° S 22'18	1°52'44
behind sun end	11236 Apr 04 05:46	19° Y 53'38		max. Earth dist.	11242 Jun 17 20:51	4° S 23'55	10.69508 AU
max. Earth dist.	11236 Apr 03 18:34	19° Y 50'11	10.52688 AU	morning rise	11242 Jul 04 10:35	6° S 24'58	
morning rise	11236 Apr 21 05:38	21° Y 59'41		retrograde	11242 Oct 15 03:23	13° S 52'06	
retrograde	11236 Jul 31 08:11	29° Y 29'10		opposition	11242 Dec 24 01:31	10° S 30'19	-2°19'23
opposition	11236 Oct 07 14:56	26° Y 08'21	-0°32'13	min. Earth dist.	11242 Dec 23 19:40	10° S 31'26	8.70169 AU
min. Earth dist.	11236 Oct 07 20:47	26° Y 07'13	8.54569 AU	direct	11243 Mar 03 15:00	7° S 09'15	
direct	11236 Dec 16 10:46	22° Y 43'52		evening set	11243 Jun 13 04:55	14° S 31'25	
	11237 Mar 27 12:08	0° S					
evening set	11237 Mar 30 20:33	0° S 24'17		conjunction	11243 Jun 29 23:32	16° S 33'47	-1°53'05
				minimum elong	11243 Jun 29 23:32	16° S 33'47	1°53'44
conjunction	11237 Apr 17 00:06	2° S 31'05	-0°38'09	max. Earth dist.	11243 Jun 30 07:25	16° S 36'12	10.70372 AU
minimum elong	11237 Apr 17 00:04	2° S 31'04	0°38'28	morning rise	11243 Jul 16 19:15	18° S 36'28	
max. Earth dist.	11237 Apr 16 17:34	2° S 29'03	10.56392 AU	retrograde	11243 Oct 27 21:54	26° S 04'32	
morning rise	11237 May 04 01:10	4° S 37'08		opposition	11244 Jan 05 22:46	22° S 42'15	-2°17'26
retrograde	11237 Aug 13 05:22	12° S 05'08		min. Earth dist.	11244 Jan 05 14:53	22° S 43'45	8.70662 AU
opposition	11237 Oct 20 19:54	8° S 44'31	-1°01'03	direct	11244 Mar 15 07:00	19° S 21'28	
min. Earth dist.	11237 Oct 21 00:02	8° S 43'43	8.58190 AU	evening set	11244 Jun 24 12:07	26° S 41'51	
direct	11237 Dec 29 17:37	5° S 20'47					
evening set	11238 Apr 12 17:20	12° S 57'47		conjunction	11244 Jul 11 07:39	28° S 44'21	-1°49'00
				minimum elong	11244 Jul 11 07:40	28° S 44'21	1°49'37
conjunction	11238 Apr 29 18:16	15° S 03'26	-1°00'22	max. Earth dist.	11244 Jul 11 17:42	28° S 47'25	10.70488 AU
minimum elong	11238 Apr 29 18:14	15° S 03'26	1°00'48		11244 Jul 21 15:39	0° J	
	11238 Apr 29 07:10	15° S		morning rise	11244 Jul 28 04:46	0° J 47'21	
max. Earth dist.	11238 Apr 29 14:12	15° S 02'11	10.59876 AU	retrograde	11244 Nov 08 16:38	8° J 16'39	
morning rise	11238 May 16 17:08	17° S 08'29		opposition	11245 Jan 17 19:25	4° J 53'51	-2°09'19
retrograde	11238 Aug 26 01:26	24° S 35'31		min. Earth dist.	11245 Jan 17 10:08	4° J 55'37	8.70384 AU
opposition	11238 Nov 02 23:38	21° S 14'55	-1°26'45	direct	11245 Mar 27 22:17	1° J 33'14	
min. Earth dist.	11238 Nov 03 01:08	21° S 14'37	8.61552 AU	evening set	11245 Jul 06 19:30	8° J 52'27	
direct	11239 Jan 11 22:36	17° S 51'53					

conjunction	11245 Jul 23 16:32	10° Ω 55'21	-1°40'00	direct	11251 Jun 10 17:54	15° Ω 43'40	
minimum elong	11245 Jul 23 16:34	10° Ω 55'22	1°40'33	evening set	11251 Sep 19 20:54	23° Ω 11'09	
max. Earth dist.	11245 Jul 24 03:25	10° Ω 58'41	10.69846 AU				
morning rise	11245 Aug 09 15:53	12° Ω 58'56		conjunction	11251 Oct 07 09:41	25° Ω 19'59	0°24'15
	11245 Aug 27 02:03	15° Ω		minimum elong	11251 Oct 07 09:40	25° Ω 19'59	0°24'29
retrograde	11245 Nov 21 12:59	20° Ω 29'46		max. Earth dist.	11251 Oct 07 16:40	25° Ω 22'08	10.53730 AU
opposition	11246 Jan 30 15:36	17° Ω 06'27	-1°55'20	morning rise	11251 Oct 25 01:35	27° Ω 29'43	
min. Earth dist.	11246 Jan 30 06:08	17° Ω 08'15	8.69345 AU		11251 Nov 15 16:21	0° \mathbb{M}	
	11246 Mar 01 11:33	15° $\mathbb{R}\Omega$		retrograde	11252 Feb 06 21:27	5° \mathbb{M} 12'44	
direct	11246 Apr 09 12:10	13° Ω 45'52		opposition	11252 Apr 15 21:33	1° \mathbb{M} 47'12	0°45'03
	11246 May 17 16:06	15° Ω		min. Earth dist.	11252 Apr 15 16:41	1° \mathbb{M} 48'09	8.51965 AU
evening set	11246 Jul 19 04:09	21° Ω 04'35			11252 May 09 19:00	30° $\mathbb{R}\Omega$	
				direct	11252 Jun 22 14:38	28° Ω 24'27	
conjunction	11246 Aug 05 03:20	23° Ω 08'09	-1°26'27		11252 Aug 04 14:19	0° \mathbb{M}	
minimum elong	11246 Aug 05 03:22	23° Ω 08'10	1°26'55	evening set	11252 Oct 02 03:38	5° \mathbb{M} 55'37	
max. Earth dist.	11246 Aug 05 14:11	23° Ω 11'28	10.68472 AU				
morning rise	11246 Aug 22 05:27	25° Ω 12'34		conjunction	11252 Oct 19 18:28	8° \mathbb{M} 05'26	0°47'56
	11246 Oct 06 07:13	0° \mathbb{M}		minimum elong	11252 Oct 19 18:26	8° \mathbb{M} 05'25	0°48'18
retrograde	11246 Dec 04 09:25	2° \mathbb{M} 45'06		max. Earth dist.	11252 Oct 19 23:24	8° \mathbb{M} 06'57	10.50208 AU
	11247 Feb 04 00:22	30° $\mathbb{R}\Omega$		morning rise	11252 Nov 06 11:53	10° \mathbb{M} 16'02	
opposition	11247 Feb 12 11:19	29° Ω 21'17	-1°36'05		11252 Dec 20 00:16	15° \mathbb{M}	
min. Earth dist.	11247 Feb 12 02:00	29° Ω 23'04	8.67592 AU	retrograde	11253 Feb 19 04:55	18° \mathbb{M} 00'50	
direct	11247 Apr 22 01:36	26° Ω 00'35			11253 Apr 23 16:28	15° $\mathbb{R}\mathbb{M}$	
	11247 Jul 01 22:41	0° \mathbb{M}		opposition	11253 Apr 28 21:59	14° \mathbb{M} 35'12	1°13'09
evening set	11247 Jul 31 14:48	3° \mathbb{M} 19'36		min. Earth dist.	11253 Apr 28 18:47	14° \mathbb{M} 35'50	8.48531 AU
				direct	11253 Jul 05 14:26	11° \mathbb{M} 11'47	
conjunction	11247 Aug 17 16:40	5° \mathbb{M} 24'03	-1°08'55		11253 Sep 12 01:09	15° \mathbb{M}	
minimum elong	11247 Aug 17 16:42	5° \mathbb{M} 24'04	1°09'16	evening set	11253 Oct 15 14:51	18° \mathbb{M} 46'54	
max. Earth dist.	11247 Aug 18 03:51	5° \mathbb{M} 27'28	10.66416 AU				
morning rise	11247 Sep 03 21:46	7° \mathbb{M} 29'25		conjunction	11253 Nov 02 07:18	20° \mathbb{M} 57'35	1°09'24
retrograde	11247 Dec 17 06:59	15° \mathbb{M} 03'56		minimum elong	11253 Nov 02 07:15	20° \mathbb{M} 57'35	1°09'53
opposition	11248 Feb 25 07:12	11° \mathbb{M} 39'37	-1°12'21	max. Earth dist.	11253 Nov 02 10:14	20° \mathbb{M} 58'30	10.46837 AU
min. Earth dist.	11248 Feb 24 21:45	11° \mathbb{M} 41'26	8.65199 AU	morning rise	11253 Nov 20 01:35	23° \mathbb{M} 08'53	
direct	11248 May 03 17:19	8° \mathbb{M} 18'44			11254 Jan 30 22:08	0° \mathbb{X}	
evening set	11248 Aug 12 04:10	15° \mathbb{M} 38'44		retrograde	11254 Mar 04 13:48	0° \mathbb{X} 55'05	
					11254 Apr 06 11:34	30° $\mathbb{R}\mathbb{M}$	
conjunction	11248 Aug 29 09:01	17° \mathbb{M} 44'13	-0°48'08	opposition	11254 May 11 23:51	27° \mathbb{M} 29'28	1°37'49
minimum elong	11248 Aug 29 09:03	17° \mathbb{M} 44'14	0°48'20	min. Earth dist.	11254 May 11 22:23	27° \mathbb{M} 29'46	8.45301 AU
max. Earth dist.	11248 Aug 29 20:46	17° \mathbb{M} 47'49	10.63773 AU	direct	11254 Jul 18 17:09	24° \mathbb{M} 05'18	
morning rise	11248 Sep 15 17:04	19° \mathbb{M} 50'41			11254 Oct 14 14:10	0° \mathbb{X}	
retrograde	11248 Dec 29 08:13	27° \mathbb{M} 27'21		evening set	11254 Oct 29 06:11	1° \mathbb{X} 44'31	
opposition	11249 Mar 09 03:28	24° \mathbb{M} 02'33	-0°45'07				
min. Earth dist.	11249 Mar 08 17:50	24° \mathbb{M} 04'26	8.62285 AU	conjunction	11254 Nov 15 23:38	3° \mathbb{X} 55'56	1°27'29
direct	11249 May 16 08:00	20° \mathbb{M} 41'23		minimum elong	11254 Nov 15 23:35	3° \mathbb{X} 55'55	1°28'04
evening set	11249 Aug 24 21:23	28° \mathbb{M} 03'09		max. Earth dist.	11254 Nov 15 23:42	3° \mathbb{X} 55'57	10.43706 AU
	11249 Sep 09 21:20	0° Ω		morning rise	11254 Dec 03 18:08	6° \mathbb{X} 07'43	
				retrograde	11255 Mar 18 01:30	13° \mathbb{X} 54'56	
conjunction	11249 Sep 11 05:09	0° Ω 09'45	-0°24'59	opposition	11255 May 25 03:12	10° \mathbb{X} 29'26	1°57'40
minimum elong	11249 Sep 11 05:10	0° Ω 09'46	0°25'02	min. Earth dist.	11255 May 25 04:04	10° \mathbb{X} 29'16	8.42357 AU
max. Earth dist.	11249 Sep 11 16:21	0° Ω 13'11	10.60674 AU	direct	11255 Jul 31 20:38	7° \mathbb{X} 04'31	
morning rise	11249 Sep 28 16:08	2° Ω 17'22		evening set	11255 Nov 12 00:51	14° \mathbb{X} 47'51	
retrograde	11250 Jan 11 11:18	9° Ω 56'11					
opposition	11250 Mar 22 00:22	6° Ω 31'02	-0°15'34	conjunction	11255 Nov 29 18:48	16° \mathbb{X} 59'50	1°41'12
min. Earth dist.	11250 Mar 21 15:40	6° Ω 32'44	8.59001 AU	minimum elong	11255 Nov 29 18:46	16° \mathbb{X} 59'49	1°41'50
direct	11250 May 28 23:18	3° Ω 09'27		max. Earth dist.	11255 Nov 29 15:26	16° \mathbb{X} 58'47	10.40927 AU
evening set	11250 Sep 06 18:53	10° Ω 33'45		morning rise	11255 Dec 17 13:10	19° \mathbb{X} 12'00	
				retrograde	11256 Mar 30 13:28	26° \mathbb{X} 59'44	
conjunction	11250 Sep 24 05:20	12° Ω 41'30	-0°00'29	opposition	11256 Jun 06 08:14	23° \mathbb{X} 34'31	2°11'34
minimum elong	11250 Sep 24 05:20	12° Ω 41'30	0°00'23	min. Earth dist.	11256 Jun 06 11:48	23° \mathbb{X} 33'48	8.39851 AU
behind sun begin	11250 Sep 23 22:10	12° Ω 39'19		direct	11256 Aug 13 03:58	20° \mathbb{X} 08'54	
behind sun end	11250 Sep 24 12:29	12° Ω 43'40		evening set	11256 Nov 24 22:03	27° \mathbb{X} 56'02	
max. Earth dist.	11250 Sep 24 14:37	12° Ω 44'20	10.57274 AU		11256 Dec 11 13:12	0° \mathbb{Z}	
asc. node	11250 Oct 01 09:10	13° Ω 34'16					
morning rise	11250 Oct 11 19:01	14° Ω 50'13		conjunction	11256 Dec 12 16:08	0° \mathbb{Z} 08'26	1°49'42
retrograde	11251 Jan 24 15:18	22° Ω 31'11		minimum elong	11256 Dec 12 16:08	0° \mathbb{Z} 08'25	1°50'23
opposition	11251 Apr 03 22:20	19° Ω 05'48	0°14'59	max. Earth dist.	11256 Dec 12 09:19	0° \mathbb{Z} 06'18	10.38704 AU
min. Earth dist.	11251 Apr 03 15:26	19° Ω 07'09	8.55506 AU	morning rise	11256 Dec 30 10:04	2° \mathbb{Z} 20'49	

retrograde	11257 Apr 13 00:37	10° \mathfrak{Z} 08'28		max. Earth dist.	11263 Mar 03 22:54	18° \mathfrak{H} 58'53	10.43311 AU
opposition	11257 Jun 19 14:47	6° \mathfrak{Z} 43'37	2°18'41	morning rise	11263 Mar 21 19:17	21° \mathfrak{H} 12'06	
min. Earth dist.	11257 Jun 19 20:44	6° \mathfrak{Z} 42'25	8.38001 AU	retrograde	11263 Jul 01 01:33	28° \mathfrak{H} 47'06	
direct	11257 Aug 26 15:14	3° \mathfrak{Z} 17'24		opposition	11263 Sep 06 18:27	25° \mathfrak{H} 24'56	0°42'17
evening set	11257 Dec 08 20:54	11° \mathfrak{Z} 07'41		min. Earth dist.	11263 Sep 07 03:03	25° \mathfrak{H} 23'14	8.44968 AU
				direct	11263 Nov 15 05:50	21° \mathfrak{H} 58'24	
conjunction	11257 Dec 26 14:49	13° \mathfrak{Z} 20'19	1°52'30	evening set	11264 Feb 28 07:55	29° \mathfrak{H} 46'27	
minimum elong	11257 Dec 26 14:49	13° \mathfrak{Z} 20'19	1°53'10		11264 Mar 01 04:12	0° \mathfrak{Y}	
max. Earth dist.	11257 Dec 26 05:37	13° \mathfrak{Z} 17'25	10.37241 AU				
morning rise	11258 Jan 13 07:53	15° \mathfrak{Z} 32'42		conjunction	11264 Mar 16 17:57	1° \mathfrak{Y} 56'05	0°21'45
retrograde	11258 Apr 26 11:19	23° \mathfrak{Z} 19'34		minimum elong	11264 Mar 16 17:58	1° \mathfrak{Y} 56'05	0°21'48
opposition	11258 Jul 02 22:26	19° \mathfrak{Z} 55'07	2°18'31	max. Earth dist.	11264 Mar 16 07:49	1° \mathfrak{Y} 52'55	10.46719 AU
min. Earth dist.	11258 Jul 03 05:47	19° \mathfrak{Z} 53'38	8.36976 AU	morning rise	11264 Apr 03 00:53	4° \mathfrak{Y} 04'46	
direct	11258 Sep 09 04:30	16° \mathfrak{Z} 28'25		retrograde	11264 Jul 13 02:04	11° \mathfrak{Y} 37'06	
evening set	11258 Dec 22 20:00	24° \mathfrak{Z} 20'54		opposition	11264 Sep 19 01:28	8° \mathfrak{Y} 15'18	0°11'39
				min. Earth dist.	11264 Sep 19 08:25	8° \mathfrak{Y} 13'57	8.48578 AU
conjunction	11259 Jan 09 13:31	26° \mathfrak{Z} 33'35	1°49'23	direct	11264 Nov 27 18:37	4° \mathfrak{Y} 49'20	
minimum elong	11259 Jan 09 13:32	26° \mathfrak{Z} 33'35	1°50'01	desc. node	11265 Feb 07 12:19	8° \mathfrak{Y} 49'42	
max. Earth dist.	11259 Jan 09 03:06	26° \mathfrak{Z} 30'19	10.36673 AU	evening set	11265 Mar 12 13:48	12° \mathfrak{Y} 34'16	
morning rise	11259 Jan 27 05:24	28° \mathfrak{Z} 45'47					
	11259 Feb 06 10:32	0° \approx		conjunction	11265 Mar 29 21:24	14° \mathfrak{Y} 42'45	-0°03'21
retrograde	11259 May 09 22:51	6° \approx 31'09		minimum elong	11265 Mar 29 21:25	14° \mathfrak{Y} 42'45	0°03'28
opposition	11259 Jul 16 07:05	3° \approx 07'08	2°11'04	behind sun begin	11265 Mar 29 14:20	14° \mathfrak{Y} 40'34	
min. Earth dist.	11259 Jul 16 15:00	3° \approx 05'33	8.36866 AU	behind sun end	11265 Mar 30 04:29	14° \mathfrak{Y} 44'56	
	11259 Sep 03 07:24	30° \mathfrak{R} \mathfrak{Z}		max. Earth dist.	11265 Mar 29 13:37	14° \mathfrak{Y} 40'21	10.50510 AU
direct	11259 Sep 22 18:20	29° \mathfrak{Z} 40'08		morning rise	11265 Apr 16 01:53	16° \mathfrak{Y} 50'20	
	11259 Oct 12 03:48	0° \approx		retrograde	11265 Jul 26 02:19	24° \mathfrak{Y} 20'21	
evening set	11260 Jan 05 18:05	7° \approx 33'43		opposition	11265 Oct 02 07:31	20° \mathfrak{Y} 58'53	-0°19'16
				min. Earth dist.	11265 Oct 02 12:31	20° \mathfrak{Y} 57'55	8.52486 AU
conjunction	11260 Jan 23 10:56	9° \approx 46'13	1°40'30	direct	11265 Dec 11 04:11	17° \mathfrak{Y} 33'38	
minimum elong	11260 Jan 23 10:58	9° \approx 46'14	1°41'04	evening set	11266 Mar 25 15:24	25° \mathfrak{Y} 15'05	
max. Earth dist.	11260 Jan 23 00:10	9° \approx 42'50	10.37050 AU				
morning rise	11260 Feb 10 01:24	11° \approx 58'04		conjunction	11266 Apr 11 20:20	27° \mathfrak{Y} 22'22	-0°27'58
	11260 Mar 06 23:49	15° \approx		minimum elong	11266 Apr 11 20:19	27° \mathfrak{Y} 22'22	0°28'14
retrograde	11260 May 22 08:37	19° \approx 41'19		max. Earth dist.	11266 Apr 11 15:03	27° \mathfrak{Y} 20'44	10.54491 AU
opposition	11260 Jul 28 16:12	16° \approx 17'46	1°56'43	morning rise	11266 Apr 28 22:18	29° \mathfrak{Y} 28'49	
min. Earth dist.	11260 Jul 29 00:28	16° \approx 16'07	8.37680 AU		11266 May 03 05:35	0° \mathfrak{B}	
	11260 Aug 14 08:28	15° \mathfrak{R} \approx		retrograde	11266 Aug 08 00:53	6° \mathfrak{B} 56'57	
direct	11260 Oct 05 09:35	12° \approx 50'37		opposition	11266 Oct 15 12:22	3° \mathfrak{B} 35'46	-0°48'59
	11260 Nov 25 07:44	15° \approx		min. Earth dist.	11266 Oct 15 15:41	3° \mathfrak{B} 35'08	8.56503 AU
evening set	11261 Jan 18 14:28	20° \approx 44'14		direct	11266 Dec 24 09:49	0° \mathfrak{B} 11'19	
				evening set	11267 Apr 07 13:08	7° \mathfrak{B} 49'11	
conjunction	11261 Feb 05 06:14	22° \approx 56'20	1°26'22				
minimum elong	11261 Feb 05 06:16	22° \approx 56'21	1°26'50	conjunction	11267 Apr 24 15:17	9° \mathfrak{B} 55'14	-0°51'06
max. Earth dist.	11261 Feb 04 19:09	22° \approx 52'51	10.38340 AU	minimum elong	11267 Apr 24 15:15	9° \mathfrak{B} 55'14	0°51'29
morning rise	11261 Feb 22 19:03	25° \approx 07'38		max. Earth dist.	11267 Apr 24 11:57	9° \mathfrak{B} 54'12	10.58471 AU
	11261 Apr 08 03:18	0° \mathfrak{H}		morning rise	11267 May 11 14:59	12° \mathfrak{B} 00'37	
retrograde	11261 Jun 04 16:24	2° \mathfrak{H} 48'17			11267 Jun 06 16:05	15° \mathfrak{B}	
	11261 Aug 03 17:18	30° \mathfrak{R} \approx		retrograde	11267 Aug 20 20:20	19° \mathfrak{B} 27'18	
opposition	11261 Aug 11 01:19	29° \approx 25'13	1°36'19	opposition	11267 Oct 28 15:43	16° \mathfrak{B} 06'21	-1°16'05
min. Earth dist.	11261 Aug 11 10:15	29° \approx 23'27	8.39369 AU	min. Earth dist.	11267 Oct 28 17:46	16° \mathfrak{B} 05'58	8.60435 AU
direct	11261 Oct 19 01:02	25° \approx 58'06			11267 Nov 12 08:10	15° \mathfrak{R} \mathfrak{B}	
	11261 Dec 29 14:30	0° \mathfrak{H}		direct	11268 Jan 06 14:34	12° \mathfrak{B} 42'43	
evening set	11262 Feb 01 08:03	3° \mathfrak{H} 50'43			11268 Feb 28 21:18	15° \mathfrak{B}	
				evening set	11268 Apr 19 07:08	20° \mathfrak{B} 17'03	
conjunction	11262 Feb 18 22:15	6° \mathfrak{H} 02'11	1°07'49				
minimum elong	11262 Feb 18 22:17	6° \mathfrak{H} 02'12	1°08'09	conjunction	11268 May 06 06:37	22° \mathfrak{B} 21'56	-1°11'39
max. Earth dist.	11262 Feb 18 10:47	5° \mathfrak{H} 58'36	10.40466 AU	minimum elong	11268 May 06 06:35	22° \mathfrak{B} 21'55	1°12'09
morning rise	11262 Mar 08 09:18	8° \mathfrak{H} 12'46		max. Earth dist.	11268 May 06 04:49	22° \mathfrak{B} 21'22	10.62259 AU
retrograde	11262 Jun 17 22:41	15° \mathfrak{H} 50'35		morning rise	11268 May 23 04:25	24° \mathfrak{B} 26'18	
opposition	11262 Aug 24 10:16	12° \mathfrak{H} 28'00	1°11'02		11268 Jul 16 07:40	0° \mathfrak{I}	
min. Earth dist.	11262 Aug 24 19:25	12° \mathfrak{H} 26'12	8.41843 AU	retrograde	11268 Sep 01 15:06	1° \mathfrak{I} 52'05	
direct	11262 Nov 01 15:31	9° \mathfrak{H} 01'05			11268 Oct 20 15:58	30° \mathfrak{R} \mathfrak{B}	
evening set	11263 Feb 14 21:54	16° \mathfrak{H} 51'46		opposition	11268 Nov 09 17:49	28° \mathfrak{B} 31'15	-1°39'23
				min. Earth dist.	11268 Nov 09 18:01	28° \mathfrak{B} 31'13	8.64089 AU
conjunction	11263 Mar 04 10:09	19° \mathfrak{H} 02'24	0°45'52	direct	11269 Jan 18 16:51	25° \mathfrak{B} 08'27	
minimum elong	11263 Mar 04 10:11	19° \mathfrak{H} 02'25	0°46'04		11269 Apr 08 19:31	0° \mathfrak{I}	

evening set	11269 May 01 21:39	2°♊39'19		evening set	11275 Jul 13 23:17	15°♌49'54	
conjunction	11269 May 18 18:55	4°♊43'10	-1°28'43	conjunction	11275 Jul 30 21:23	17°♌52'49	-1°32'55
minimum elong	11269 May 18 18:53	4°♊43'10	1°29'18	minimum elong	11275 Jul 30 21:25	17°♌52'50	1°33'25
max. Earth dist.	11269 May 18 19:39	4°♊43'24	10.65681 AU	max. Earth dist.	11275 Jul 31 08:32	17°♌56'13	10.71905 AU
morning rise	11269 Jun 04 15:06	6°♊46'41		morning rise	11275 Aug 16 21:54	19°♌56'29	
retrograde	11269 Sep 14 09:06	14°♊12'03		retrograde	11275 Nov 28 22:37	27°♌27'10	
opposition	11269 Nov 22 18:37	10°♊51'14	-1°57'54	opposition	11276 Feb 07 00:48	24°♌04'18	-1°45'09
min. Earth dist.	11269 Nov 22 16:16	10°♊51'41	8.67300 AU	min. Earth dist.	11276 Feb 06 15:15	24°♌06'07	8.71071 AU
direct	11270 Jan 31 16:02	7°♊29'14		direct	11276 Apr 15 18:24	20°♌44'23	
evening set	11270 May 14 09:18	14°♊56'51		evening set	11276 Jul 25 08:26	28°♌02'14	
					11276 Aug 10 13:20	0°♍	
conjunction	11270 May 31 04:59	16°♊59'52	-1°41'37	conjunction	11276 Aug 11 08:56	0°♍05'59	-1°17'10
minimum elong	11270 May 31 04:57	16°♊59'51	1°42'16	minimum elong	11276 Aug 11 08:59	0°♍05'59	1°17'34
max. Earth dist.	11270 May 31 08:48	17°♊01'02	10.68591 AU	max. Earth dist.	11276 Aug 11 19:47	0°♍09'17	10.69851 AU
morning rise	11270 Jun 17 00:03	19°♊02'44		morning rise	11276 Aug 28 12:19	2°♍10'35	
retrograde	11270 Sep 27 02:48	26°♊28'08		retrograde	11276 Dec 10 20:08	9°♍43'18	
opposition	11270 Dec 05 18:01	23°♊07'11	-2°10'56	opposition	11277 Feb 18 20:12	6°♍19'51	-1°23'26
min. Earth dist.	11270 Dec 05 13:13	23°♊08'06	8.69933 AU	min. Earth dist.	11277 Feb 18 11:10	6°♍21'36	8.68565 AU
direct	11271 Feb 13 13:17	19°♊45'54		direct	11277 Apr 28 08:04	2°♍59'42	
evening set	11271 May 26 18:39	27°♊10'35		evening set	11277 Aug 06 20:02	10°♍18'21	
conjunction	11271 Jun 12 13:21	29°♊13'01	-1°49'50	conjunction	11277 Aug 23 23:17	12°♍23'08	-0°57'49
minimum elong	11271 Jun 12 13:20	29°♊13'01	1°50'31	minimum elong	11277 Aug 23 23:19	12°♍23'08	0°58'05
max. Earth dist.	11271 Jun 12 19:46	29°♊14'59	10.70868 AU	max. Earth dist.	11277 Aug 24 09:07	12°♍26'08	10.67007 AU
	11271 Jun 18 22:52	0°♎		morning rise	11277 Sep 10 05:53	14°♍28'51	
morning rise	11271 Jun 29 08:02	1°♎15'29		retrograde	11277 Dec 23 19:36	22°♍03'46	
retrograde	11271 Oct 09 21:19	8°♎41'16		opposition	11278 Mar 03 15:55	18°♍39'44	-0°57'45
opposition	11271 Dec 18 16:20	5°♎20'09	-2°17'58	min. Earth dist.	11278 Mar 03 07:58	18°♍41'16	8.65366 AU
min. Earth dist.	11271 Dec 18 09:58	5°♎21'21	8.71870 AU	direct	11278 May 10 21:52	15°♍19'08	
direct	11272 Feb 26 07:07	1°♎59'27		evening set	11278 Aug 19 11:05	22°♍39'23	
evening set	11272 Jun 07 02:27	9°♎21'36					
conjunction	11272 Jun 23 20:44	11°♎23'42	-1°53'05	conjunction	11278 Sep 05 17:17	24°♍45'17	-0°35'42
minimum elong	11272 Jun 23 20:44	11°♎23'42	1°53'46	minimum elong	11278 Sep 05 17:18	24°♍45'17	0°35'49
max. Earth dist.	11272 Jun 24 04:25	11°♎26'03	10.72412 AU	max. Earth dist.	11278 Sep 06 02:06	24°♍47'59	10.63560 AU
morning rise	11272 Jul 10 15:52	13°♎26'04		morning rise	11278 Sep 23 02:59	26°♍52'12	
retrograde	11272 Oct 21 14:34	20°♎52'34			11278 Oct 20 19:05	0°♏	
opposition	11272 Dec 30 13:39	17°♎31'10	-2°18'47	retrograde	11279 Jan 05 19:28	4°♏29'25	
min. Earth dist.	11272 Dec 30 06:26	17°♎32'31	8.73025 AU	opposition	11279 Mar 16 12:01	1°♏04'47	-0°29'12
direct	11273 Mar 09 22:48	14°♎10'55		min. Earth dist.	11279 Mar 16 05:01	1°♏06'08	8.61664 AU
evening set	11273 Jun 19 09:17	21°♎31'01			11279 Mar 30 15:28	30°♏♍	
				direct	11279 May 23 13:53	27°♍43'35	
conjunction	11273 Jul 06 04:01	23°♎33'05	-1°51'15		11279 Jul 14 14:43	0°♏	
minimum elong	11273 Jul 06 04:02	23°♎33'06	1°51'55	evening set	11279 Sep 01 06:02	5°♏06'12	
max. Earth dist.	11273 Jul 06 12:46	23°♎35'46	10.73154 AU				
morning rise	11273 Jul 23 00:24	25°♎35'36		conjunction	11279 Sep 18 15:12	7°♏13'17	-0°11'45
	11273 Sep 01 22:07	0°♏		minimum elong	11279 Sep 18 15:12	7°♏13'18	0°11'44
retrograde	11273 Nov 03 07:09	3°♏03'11		behind sun begin	11279 Sep 18 10:10	7°♏11'46	
	11274 Jan 08 07:42	30°♏♎		behind sun end	11279 Sep 18 20:14	7°♏14'49	
opposition	11274 Jan 12 10:03	29°♎41'22	-2°13'23	max. Earth dist.	11279 Sep 18 23:37	7°♏15'52	10.59689 AU
min. Earth dist.	11274 Jan 12 01:56	29°♎42'54	8.73330 AU	morning rise	11279 Oct 06 03:38	9°♏21'22	
direct	11274 Mar 22 15:27	26°♎21'23		retrograde	11280 Jan 18 21:39	17°♏00'57	
	11274 May 29 11:31	0°♏		asc. node	11280 Mar 16 05:49	14°♏31'58	
evening set	11274 Jul 01 15:52	3°♏40'00		opposition	11280 Mar 28 09:07	13°♏35'46	0°01'00
				min. Earth dist.	11280 Mar 28 02:37	13°♏37'02	8.57646 AU
conjunction	11274 Jul 18 11:58	5°♏42'22	-1°44'26	direct	11280 Jun 04 08:03	10°♏13'53	
minimum elong	11274 Jul 18 11:59	5°♏42'22	1°45'02	evening set	11280 Sep 13 05:18	17°♏39'29	
max. Earth dist.	11274 Jul 18 22:02	5°♏45'26	10.73014 AU				
morning rise	11274 Aug 04 10:10	7°♏45'19		conjunction	11280 Sep 30 17:08	19°♏47'46	0°13'01
	11274 Oct 30 05:55	15°♏		minimum elong	11280 Sep 30 17:08	19°♏47'46	0°13'11
retrograde	11274 Nov 16 02:26	15°♏14'17		behind sun begin	11280 Sep 30 12:57	19°♏46'30	
	11274 Dec 03 02:02	15°♏♏		behind sun end	11280 Sep 30 21:18	19°♏49'02	
opposition	11275 Jan 25 05:38	11°♏51'58	-2°02'01	max. Earth dist.	11280 Oct 01 00:35	19°♏50'03	10.55582 AU
min. Earth dist.	11275 Jan 24 20:32	11°♏53'41	8.72694 AU	morning rise	11280 Oct 18 07:54	21°♏56'58	
direct	11275 Apr 04 05:47	8°♏32'05		retrograde	11281 Jan 31 04:05	29°♏38'52	
	11275 Jul 06 22:11	15°♏		opposition	11281 Apr 10 07:21	26°♏13'12	0°31'25

min. Earth dist.	11281 Apr 10 01:55	26° \mathfrak{L} 14'16	8.53499 AU	direct	11287 Sep 03 06:52	10° \mathfrak{Z} 38'44	
direct	11281 Jun 17 02:06	22° \mathfrak{L} 50'33		evening set	11287 Dec 16 18:02	18° \mathfrak{Z} 30'32	
	11281 Sep 23 15:51	0° \mathfrak{M}					
evening set	11281 Sep 26 09:31	0° \mathfrak{M} 19'45		conjunction	11288 Jan 03 11:52	20° \mathfrak{Z} 43'20	1°51'32
				minimum elong	11288 Jan 03 11:53	20° \mathfrak{Z} 43'20	1°52'13
conjunction	11281 Oct 13 23:33	2° \mathfrak{M} 29'08	0°37'16	max. Earth dist.	11288 Jan 03 03:21	20° \mathfrak{Z} 40'40	10.35691 AU
minimum elong	11281 Oct 13 23:31	2° \mathfrak{M} 29'08	0°37'34	morning rise	11288 Jan 21 04:18	22° \mathfrak{Z} 55'46	
max. Earth dist.	11281 Oct 14 04:49	2° \mathfrak{M} 30'46	10.51428 AU		11288 Apr 05 01:26	0° \mathfrak{A}	
morning rise	11281 Oct 31 16:12	4° \mathfrak{M} 39'22		retrograde	11288 May 03 03:54	0° \mathfrak{A} 42'14	
retrograde	11282 Feb 13 10:55	12° \mathfrak{M} 23'19			11288 May 31 08:44	30° \mathfrak{R} \mathfrak{Z}	
opposition	11282 Apr 23 06:49	8° \mathfrak{M} 57'22	1°00'35	opposition	11288 Jul 09 12:22	27° \mathfrak{Z} 17'36	2°15'24
min. Earth dist.	11282 Apr 23 03:24	8° \mathfrak{M} 58'02	8.49410 AU	min. Earth dist.	11288 Jul 09 19:31	27° \mathfrak{Z} 16'10	8.35820 AU
direct	11282 Jun 29 23:29	5° \mathfrak{M} 33'51		direct	11288 Sep 15 19:52	23° \mathfrak{Z} 50'23	
evening set	11282 Oct 09 18:26	13° \mathfrak{M} 07'09			11288 Dec 15 06:57	0° \mathfrak{A}	
	11282 Oct 25 01:35	15° \mathfrak{M}		evening set	11288 Dec 29 16:59	1° \mathfrak{A} 43'52	
conjunction	11282 Oct 27 10:07	15° \mathfrak{M} 17'31	0°59'53	conjunction	11289 Jan 16 10:09	3° \mathfrak{A} 56'35	1°45'14
minimum elong	11282 Oct 27 10:05	15° \mathfrak{M} 17'30	1°00'18	minimum elong	11289 Jan 16 10:11	3° \mathfrak{A} 56'35	1°45'51
max. Earth dist.	11282 Oct 27 12:17	15° \mathfrak{M} 18'11	10.47416 AU	max. Earth dist.	11289 Jan 15 23:49	3° \mathfrak{A} 53'20	10.35935 AU
morning rise	11282 Nov 14 04:07	17° \mathfrak{M} 28'35		morning rise	11289 Feb 03 01:26	6° \mathfrak{A} 08'44	
retrograde	11283 Feb 26 18:42	25° \mathfrak{M} 14'21		retrograde	11289 May 16 13:25	13° \mathfrak{A} 53'19	
opposition	11283 May 06 07:57	21° \mathfrak{M} 48'14	1°27'01	opposition	11289 Jul 22 21:32	10° \mathfrak{A} 29'22	2°04'05
min. Earth dist.	11283 May 06 07:01	21° \mathfrak{M} 48'25	8.45569 AU	min. Earth dist.	11289 Jul 23 05:51	10° \mathfrak{A} 27'42	8.36526 AU
direct	11283 Jul 13 00:41	18° \mathfrak{M} 23'52		direct	11289 Sep 29 11:58	7° \mathfrak{A} 02'07	
evening set	11283 Oct 23 07:32	26° \mathfrak{M} 01'26		evening set	11290 Jan 12 14:38	14° \mathfrak{A} 56'12	
					11290 Jan 13 02:59	15° \mathfrak{A}	
conjunction	11283 Nov 10 00:28	28° \mathfrak{M} 12'38	1°19'39				
minimum elong	11283 Nov 10 00:26	28° \mathfrak{M} 12'37	1°20'11	conjunction	11290 Jan 30 06:49	17° \mathfrak{A} 08'35	1°33'25
max. Earth dist.	11283 Nov 10 00:03	28° \mathfrak{M} 12'30	10.43737 AU	minimum elong	11290 Jan 30 06:52	17° \mathfrak{A} 08'36	1°33'56
	11283 Nov 24 11:21	0° \mathfrak{A}		max. Earth dist.	11290 Jan 29 19:37	17° \mathfrak{A} 05'04	10.37134 AU
morning rise	11283 Nov 27 19:08	0° \mathfrak{A} 24'22		morning rise	11290 Feb 16 20:38	19° \mathfrak{A} 20'15	
retrograde	11284 Mar 11 04:22	8° \mathfrak{A} 11'32		retrograde	11290 May 29 22:02	27° \mathfrak{A} 02'30	
opposition	11284 May 18 10:43	4° \mathfrak{A} 45'24	1°49'15	opposition	11290 Aug 05 07:01	23° \mathfrak{A} 39'14	1°46'17
min. Earth dist.	11284 May 18 11:40	4° \mathfrak{A} 45'13	8.42159 AU	min. Earth dist.	11290 Aug 05 15:24	23° \mathfrak{A} 37'34	8.38155 AU
direct	11284 Jul 25 04:23	1° \mathfrak{A} 20'13		direct	11290 Oct 13 04:04	20° \mathfrak{A} 12'09	
evening set	11284 Nov 05 00:35	9° \mathfrak{A} 02'02		evening set	11291 Jan 26 09:55	28° \mathfrak{A} 05'43	
					11291 Feb 10 16:58	0° \mathfrak{H}	
conjunction	11284 Nov 22 18:24	11° \mathfrak{A} 13'55	1°35'30				
minimum elong	11284 Nov 22 18:22	11° \mathfrak{A} 13'54	1°36'07	conjunction	11291 Feb 13 00:53	0° \mathfrak{H} 17'34	1°16'44
max. Earth dist.	11284 Nov 22 15:53	11° \mathfrak{A} 13'08	10.40574 AU	minimum elong	11291 Feb 13 00:55	0° \mathfrak{H} 17'35	1°17'09
morning rise	11284 Dec 10 13:07	13° \mathfrak{A} 26'07		max. Earth dist.	11291 Feb 12 14:10	0° \mathfrak{H} 14'12	10.39229 AU
retrograde	11285 Mar 24 15:17	21° \mathfrak{A} 14'07		morning rise	11291 Mar 02 12:56	2° \mathfrak{H} 28'34	
opposition	11285 May 31 14:53	17° \mathfrak{A} 48'07	2°06'02	retrograde	11291 Jun 12 06:20	10° \mathfrak{H} 08'07	
min. Earth dist.	11285 May 31 17:19	17° \mathfrak{A} 47'38	8.39348 AU	opposition	11291 Aug 18 16:27	6° \mathfrak{H} 45'29	1°23'02
direct	11285 Aug 07 11:06	14° \mathfrak{A} 22'11		min. Earth dist.	11291 Aug 19 00:17	6° \mathfrak{H} 43'56	8.40624 AU
evening set	11285 Nov 18 20:44	22° \mathfrak{A} 07'59		direct	11291 Oct 26 18:47	3° \mathfrak{H} 18'45	
				evening set	11292 Feb 09 02:03	11° \mathfrak{H} 10'45	
conjunction	11285 Dec 06 15:00	24° \mathfrak{A} 20'22	1°46'29				
minimum elong	11285 Dec 06 14:59	24° \mathfrak{A} 20'22	1°47'09	conjunction	11292 Feb 26 15:26	13° \mathfrak{H} 21'52	0°56'10
max. Earth dist.	11285 Dec 06 10:42	24° \mathfrak{A} 19'02	10.38090 AU	minimum elong	11292 Feb 26 15:28	13° \mathfrak{H} 21'53	0°56'26
morning rise	11285 Dec 24 09:14	26° \mathfrak{A} 32'50		max. Earth dist.	11292 Feb 26 05:40	13° \mathfrak{H} 18'48	10.42098 AU
	11286 Jan 23 08:29	0° \mathfrak{Z}		morning rise	11292 Mar 15 01:29	15° \mathfrak{H} 32'03	
retrograde	11286 Apr 07 03:00	4° \mathfrak{Z} 21'02		retrograde	11292 Jun 24 12:12	23° \mathfrak{H} 08'42	
opposition	11286 Jun 13 20:44	0° \mathfrak{Z} 55'19	2°16'21	opposition	11292 Aug 31 01:28	19° \mathfrak{H} 46'40	0°55'39
min. Earth dist.	11286 Jun 14 00:27	0° \mathfrak{Z} 54'35	8.37277 AU	min. Earth dist.	11292 Aug 31 08:51	19° \mathfrak{H} 45'13	8.43787 AU
	11286 Jun 25 11:50	30° \mathfrak{R} \mathfrak{A}		direct	11292 Nov 08 09:01	16° \mathfrak{H} 20'24	
direct	11286 Aug 20 20:13	27° \mathfrak{A} 28'48		evening set	11293 Feb 21 14:39	24° \mathfrak{H} 10'02	
	11286 Oct 14 15:51	0° \mathfrak{Z}					
evening set	11286 Dec 02 18:53	5° \mathfrak{Z} 18'00		conjunction	11293 Mar 11 01:54	26° \mathfrak{H} 20'11	0°32'52
				minimum elong	11293 Mar 11 01:55	26° \mathfrak{H} 20'11	0°32'59
conjunction	11286 Dec 20 13:07	7° \mathfrak{Z} 30'41	1°51'57	max. Earth dist.	11293 Mar 10 16:55	26° \mathfrak{H} 17'23	10.45562 AU
minimum elong	11286 Dec 20 13:07	7° \mathfrak{Z} 30'41	1°52'38	morning rise	11293 Mar 28 09:43	28° \mathfrak{H} 29'22	
max. Earth dist.	11286 Dec 20 06:50	7° \mathfrak{Z} 28'43	10.36424 AU		11293 Apr 10 00:06	0° \mathfrak{Y}	
morning rise	11287 Jan 07 06:31	9° \mathfrak{Z} 43'13		retrograde	11293 Jul 07 14:54	6° \mathfrak{Y} 03'10	
retrograde	11287 Apr 20 15:32	17° \mathfrak{Z} 30'55		opposition	11293 Sep 13 09:39	2° \mathfrak{Y} 41'40	0°25'40
opposition	11287 Jun 27 04:02	14° \mathfrak{Z} 05'41	2°19'33	min. Earth dist.	11293 Sep 13 16:48	2° \mathfrak{Y} 40'16	8.47452 AU
min. Earth dist.	11287 Jun 27 09:28	14° \mathfrak{Z} 04'35	8.36074 AU		11293 Oct 23 05:24	30° \mathfrak{R} \mathfrak{H}	

direct	11293 Nov 21 22:41	29° X 15'57	opposition	11299 Nov 30 09:32	17° II 59'51	-2°05'50
	11293 Dec 21 10:08	0° Y	min. Earth dist.	11299 Nov 30 07:52	18° II 00'10	8.67322 AU
evening set	11294 Mar 06 23:06	7° Y 02'35	direct	11300 Feb 08 04:45	14° II 38'02	
			evening set	11300 May 21 17:22	22° II 05'04	
conjunction	11294 Mar 24 07:50	9° Y 11'37 0°08'08	conjunction	11300 Jun 07 12:24	24° II 07'59	-1°46'45
minimum elong	11294 Mar 24 07:50	9° Y 11'37 0°08'04	minimum elong	11300 Jun 07 12:23	24° II 07'59	1°47'25
behind sun begin	11294 Mar 24 01:28	9° Y 09'39	max. Earth dist.	11300 Jun 07 15:08	24° II 08'49	10.68142 AU
behind sun end	11294 Mar 24 14:12	9° Y 13'34	morning rise	11300 Jun 24 07:25	26° II 10'52	
max. Earth dist.	11294 Mar 23 23:16	9° Y 08'58 10.49400 AU		11300 Jul 28 17:46	0° S	
morning rise	11294 Apr 10 13:22	11° Y 19'42	retrograde	11300 Oct 04 15:48	3° S 37'28	
retrograde	11294 Jul 20 15:52	18° Y 50'55	opposition	11300 Dec 13 09:16	0° S 16'08	-2°15'37
desc. node	11294 Jul 24 14:27	18° Y 50'05	min. Earth dist.	11300 Dec 13 05:31	0° S 16'51	8.69033 AU
opposition	11294 Sep 26 16:46	15° Y 29'50 -0°05'20		11300 Dec 16 22:19	30° R II	
min. Earth dist.	11294 Sep 26 23:25	15° Y 28'32 8.51373 AU	direct	11301 Feb 21 02:14	26° II 54'45	
direct	11294 Dec 05 09:51	12° Y 04'45		11301 Apr 24 07:34	0° S	
evening set	11295 Mar 20 03:06	19° Y 47'59	evening set	11301 Jun 03 02:25	4° S 19'07	
conjunction	11295 Apr 06 09:09	21° Y 55'49 -0°16'56	conjunction	11301 Jun 19 20:56	6° S 21'39	-1°52'14
minimum elong	11295 Apr 06 09:08	21° Y 55'49 0°17'09	minimum elong	11301 Jun 19 20:56	6° S 21'39	1°52'56
max. Earth dist.	11295 Apr 06 01:24	21° Y 53'25 10.53332 AU	max. Earth dist.	11301 Jun 20 02:35	6° S 23'23	10.69503 AU
morning rise	11295 Apr 23 12:23	24° Y 02'48	morning rise	11301 Jul 06 15:58	8° S 24'20	
	11295 Jun 21 08:05	0° S	retrograde	11301 Oct 17 10:00	15° S 51'39	
retrograde	11295 Aug 02 14:22	1° S 31'55	opposition	11301 Dec 26 07:50	12° S 29'50	-2°19'13
	11295 Sep 15 01:54	30° R Y	min. Earth dist.	11301 Dec 26 01:34	12° S 31'01	8.70058 AU
opposition	11295 Oct 09 22:31	28° Y 11'07 -0°35'46	direct	11302 Mar 05 20:34	9° S 08'48	
min. Earth dist.	11295 Oct 10 03:51	28° Y 10'06 8.55249 AU	evening set	11302 Jun 15 10:18	16° S 30'57	
direct	11295 Dec 18 18:34	24° Y 46'45				
	11296 Mar 11 04:06	0° S	conjunction	11302 Jul 02 05:04	18° S 33'22	-1°52'38
evening set	11296 Apr 01 03:09	2° S 26'34	minimum elong	11302 Jul 02 05:05	18° S 33'22	1°53'19
conjunction	11296 Apr 18 06:31	4° S 33'12 -0°40'54	max. Earth dist.	11302 Jul 02 13:18	18° S 35'53	10.70159 AU
minimum elong	11296 Apr 18 06:29	4° S 33'12 0°41'14	morning rise	11302 Jul 19 00:51	20° S 36'07	
max. Earth dist.	11296 Apr 18 00:36	4° S 31'22 10.57083 AU	retrograde	11302 Oct 30 04:34	28° S 04'27	
morning rise	11296 May 05 07:22	6° S 39'07	opposition	11303 Jan 08 05:16	24° S 42'07	-2°16'32
retrograde	11296 Aug 14 11:10	14° S 06'47	min. Earth dist.	11303 Jan 07 21:26	24° S 43'36	8.70347 AU
opposition	11296 Oct 22 02:57	10° S 46'10 -1°04'14	direct	11303 Mar 18 13:02	21° S 21'18	
min. Earth dist.	11296 Oct 22 06:20	10° S 45'31 8.58868 AU	evening set	11303 Jun 27 17:47	28° S 41'49	
direct	11296 Dec 31 02:00	7° S 22'32		11303 Jul 08 12:06	0° Q	
evening set	11297 Apr 13 23:28	14° S 59'00	conjunction	11303 Jul 14 13:26	0° Q 44'25	-1°47'57
	11297 Apr 14 02:46	15° S	minimum elong	11303 Jul 14 13:27	0° Q 44'25	1°48'35
conjunction	11297 May 01 00:16	17° S 04'30 -1°02'45	max. Earth dist.	11303 Jul 14 22:51	0° Q 47'18	10.70080 AU
minimum elong	11297 May 01 00:14	17° S 04'29 1°03'12	morning rise	11303 Jul 31 10:50	2° Q 47'31	
max. Earth dist.	11297 Apr 30 21:00	17° S 03'29 10.60517 AU	retrograde	11303 Nov 12 00:21	10° Q 17'10	
morning rise	11297 May 17 22:50	19° S 09'23	opposition	11304 Jan 21 02:08	6° Q 54'18	-2°07'41
retrograde	11297 Aug 27 08:47	26° S 36'11	min. Earth dist.	11304 Jan 20 17:39	6° Q 55'55	8.69879 AU
opposition	11297 Nov 04 06:26	23° S 15'36 -1°29'24	direct	11304 Mar 30 03:35	3° Q 33'37	
min. Earth dist.	11297 Nov 04 07:44	23° S 15'21 8.62144 AU	evening set	11304 Jul 09 01:32	10° Q 53'05	
direct	11298 Jan 13 05:09	19° S 52'41	conjunction	11304 Jul 25 22:44	12° Q 56'07	-1°38'23
evening set	11298 Apr 26 16:14	27° S 25'48	minimum elong	11304 Jul 25 22:46	12° Q 56'07	1°38'56
conjunction	11298 May 13 14:39	29° S 30'17 -1°21'30	max. Earth dist.	11304 Jul 26 08:37	12° Q 59'08	10.69258 AU
minimum elong	11298 May 13 14:37	29° S 30'16 1°22'03	morning rise	11304 Aug 11 22:26	14° Q 59'51	
max. Earth dist.	11298 May 13 13:45	29° S 30'00 10.63563 AU		11304 Aug 11 22:56	15° Q	
	11298 May 17 15:01	0° II	retrograde	11304 Nov 23 19:28	22° Q 31'05	
morning rise	11298 May 30 11:25	1° II 34'19	opposition	11305 Feb 01 22:34	19° Q 07'41	-1°53'02
retrograde	11298 Sep 09 04:41	9° II 00'38	min. Earth dist.	11305 Feb 01 13:48	19° Q 09'22	8.68672 AU
opposition	11298 Nov 17 08:43	5° II 39'57 -1°50'14	direct	11305 Apr 11 18:23	15° Q 47'00	
min. Earth dist.	11298 Nov 17 08:33	5° II 39'59 8.64995 AU	evening set	11305 Jul 21 10:33	23° Q 06'07	
direct	11299 Jan 26 05:14	2° II 17'39	conjunction	11305 Aug 07 10:03	25° Q 09'51	-1°24'19
evening set	11299 May 09 06:09	9° II 47'36	minimum elong	11305 Aug 07 10:05	25° Q 09'52	1°24'47
conjunction	11299 May 26 02:32	11° II 51'11 -1°36'22	max. Earth dist.	11305 Aug 07 20:48	25° Q 13'08	10.67727 AU
minimum elong	11299 May 26 02:30	11° II 51'10 1°37'00	morning rise	11305 Aug 24 12:28	27° Q 14'25	
max. Earth dist.	11299 May 26 03:14	11° II 51'24 10.66136 AU		11305 Sep 17 17:30	0° P	
morning rise	11299 Jun 11 22:08	13° II 54'32	retrograde	11305 Dec 06 16:10	4° P 47'30	
retrograde	11299 Sep 21 21:39	21° II 20'47	opposition	11306 Feb 14 18:38	1° P 23'33	-1°33'12

min. Earth dist.	11306 Feb 14 09:14	1° \mathbb{M} 25'21	8.66775 AU	opposition	11312 May 01 07:56	16° \mathbb{M} 46'16	1°16'28
	11306 Mar 05 10:59	30° \mathbb{R} 8		min. Earth dist.	11312 May 01 04:04	16° \mathbb{M} 47'02	8.47627 AU
direct	11306 Apr 24 09:46	28° \mathbb{O} 02'46			11312 May 24 20:26	15° \mathbb{R} \mathbb{M}	
	11306 Jun 11 15:01	0° \mathbb{M}		direct	11312 Jul 08 00:38	13° \mathbb{M} 22'45	
evening set	11306 Aug 02 21:41	5° \mathbb{M} 22'13			11312 Aug 20 08:16	15° \mathbb{M}	
				evening set	11312 Oct 18 02:11	20° \mathbb{M} 58'39	
conjunction	11306 Aug 19 23:59	7° \mathbb{M} 26'53	-1°06'21				
minimum elong	11306 Aug 20 00:01	7° \mathbb{M} 26'54	1°06'41	conjunction	11312 Nov 04 18:45	23° \mathbb{M} 09'30	1°11'51
max. Earth dist.	11306 Aug 20 11:40	7° \mathbb{M} 30'28	10.65539 AU	minimum elong	11312 Nov 04 18:43	23° \mathbb{M} 09'30	1°12'21
morning rise	11306 Sep 06 05:19	9° \mathbb{M} 32'28		max. Earth dist.	11312 Nov 04 22:11	23° \mathbb{M} 10'34	10.46013 AU
retrograde	11306 Dec 19 16:29	17° \mathbb{M} 07'34		morning rise	11312 Nov 22 13:01	25° \mathbb{M} 20'56	
opposition	11307 Feb 27 14:49	13° \mathbb{M} 43'06	-1°08'59		11313 Jan 03 22:30	0° \mathbb{M}	
min. Earth dist.	11307 Feb 27 04:58	13° \mathbb{M} 45'00	8.64263 AU	retrograde	11313 Mar 07 02:18	3° \mathbb{M} 07'37	
direct	11307 May 06 23:46	10° \mathbb{M} 22'07			11313 May 10 15:40	30° \mathbb{R} \mathbb{M}	
evening set	11307 Aug 15 11:51	17° \mathbb{M} 42'40		opposition	11313 May 14 10:20	29° \mathbb{M} 41'58	1°40'32
				min. Earth dist.	11313 May 14 08:35	29° \mathbb{M} 42'19	8.44587 AU
conjunction	11307 Sep 01 17:00	19° \mathbb{M} 48'23	-0°45'14	direct	11313 Jul 21 02:04	26° \mathbb{M} 17'43	
minimum elong	11307 Sep 01 17:02	19° \mathbb{M} 48'23	0°45'25		11313 Sep 26 13:56	0° \mathbb{M}	
max. Earth dist.	11307 Sep 02 04:44	19° \mathbb{M} 51'58	10.62788 AU	evening set	11313 Oct 31 18:13	3° \mathbb{M} 57'37	
morning rise	11307 Sep 19 01:20	21° \mathbb{M} 55'03					
retrograde	11308 Jan 01 17:25	29° \mathbb{M} 32'19		conjunction	11313 Nov 18 11:39	6° \mathbb{M} 09'08	1°29'24
opposition	11308 Mar 11 11:29	26° \mathbb{M} 07'25	-0°41'24	minimum elong	11313 Nov 18 11:37	6° \mathbb{M} 09'07	1°29'59
min. Earth dist.	11308 Mar 11 01:58	26° \mathbb{M} 09'16	8.61260 AU	max. Earth dist.	11313 Nov 18 11:36	6° \mathbb{M} 09'07	10.43118 AU
direct	11308 May 18 14:42	22° \mathbb{M} 46'06		morning rise	11313 Dec 06 06:12	8° \mathbb{M} 21'02	
	11308 Aug 26 01:17	0° \mathbb{M}		retrograde	11314 Mar 20 13:44	16° \mathbb{M} 08'28	
evening set	11308 Aug 27 05:47	0° \mathbb{M} 08'33		opposition	11314 May 27 14:03	12° \mathbb{M} 42'59	1°59'39
				min. Earth dist.	11314 May 27 15:10	12° \mathbb{M} 42'46	8.41915 AU
conjunction	11308 Sep 13 13:45	2° \mathbb{M} 15'23	-0°21'53	direct	11314 Aug 03 07:18	9° \mathbb{M} 17'58	
minimum elong	11308 Sep 13 13:45	2° \mathbb{M} 15'23	0°21'55	evening set	11314 Nov 14 13:18	17° \mathbb{M} 01'47	
max. Earth dist.	11308 Sep 14 00:05	2° \mathbb{M} 18'32	10.59623 AU				
morning rise	11308 Oct 01 01:04	4° \mathbb{M} 23'12		conjunction	11314 Dec 02 07:10	19° \mathbb{M} 13'48	1°42'27
retrograde	11309 Jan 13 20:15	12° \mathbb{M} 02'40		minimum elong	11314 Dec 02 07:08	19° \mathbb{M} 13'48	1°43'06
opposition	11309 Mar 24 08:58	8° \mathbb{M} 37'25	-0°11'40	max. Earth dist.	11314 Dec 02 03:21	19° \mathbb{M} 12'37	10.40626 AU
min. Earth dist.	11309 Mar 24 00:56	8° \mathbb{M} 38'59	8.57932 AU	morning rise	11314 Dec 20 01:34	21° \mathbb{M} 26'00	
direct	11309 May 31 07:40	5° \mathbb{M} 15'40		retrograde	11315 Apr 02 23:47	29° \mathbb{M} 13'44	
asc. node	11309 Aug 15 14:00	9° \mathbb{M} 51'38		opposition	11315 Jun 09 19:18	25° \mathbb{M} 48'33	2°12'40
evening set	11309 Sep 09 03:56	12° \mathbb{M} 40'42		min. Earth dist.	11315 Jun 09 23:09	25° \mathbb{M} 47'47	8.39684 AU
				direct	11315 Aug 16 16:32	22° \mathbb{M} 22'52	
conjunction	11309 Sep 26 14:36	14° \mathbb{M} 48'40	0°02'47		11315 Nov 27 00:52	0° \mathbb{M}	
minimum elong	11309 Sep 26 14:35	14° \mathbb{M} 48'40	0°02'54	evening set	11315 Nov 28 10:28	0° \mathbb{M} 10'16	
behind sun begin	11309 Sep 26 07:25	14° \mathbb{M} 46'29					
behind sun end	11309 Sep 26 21:45	14° \mathbb{M} 50'51		conjunction	11315 Dec 16 04:30	2° \mathbb{M} 22'39	1°50'13
max. Earth dist.	11309 Sep 26 23:10	14° \mathbb{M} 51'17	10.56203 AU	minimum elong	11315 Dec 16 04:30	2° \mathbb{M} 22'39	1°50'54
morning rise	11309 Oct 14 04:37	16° \mathbb{M} 57'37		max. Earth dist.	11315 Dec 15 21:42	2° \mathbb{M} 20'32	10.38651 AU
retrograde	11310 Jan 27 01:27	24° \mathbb{M} 39'14		morning rise	11316 Jan 02 22:22	4° \mathbb{M} 35'00	
opposition	11310 Apr 06 07:25	21° \mathbb{M} 13'44	0°18'52	retrograde	11316 Apr 15 11:09	12° \mathbb{M} 22'32	
min. Earth dist.	11310 Apr 06 01:00	21° \mathbb{M} 15'00	8.54441 AU	opposition	11316 Jun 22 01:53	8° \mathbb{M} 57'43	2°18'50
direct	11310 Jun 13 02:10	17° \mathbb{M} 51'27		min. Earth dist.	11316 Jun 22 07:35	8° \mathbb{M} 56'34	8.38053 AU
evening set	11310 Sep 22 06:46	25° \mathbb{M} 19'44		direct	11316 Aug 29 03:21	5° \mathbb{M} 31'29	
				evening set	11316 Dec 11 09:11	13° \mathbb{M} 21'49	
conjunction	11310 Oct 09 19:51	27° \mathbb{M} 28'46	0°27'20				
minimum elong	11310 Oct 09 19:50	27° \mathbb{M} 28'46	0°27'36	conjunction	11316 Dec 29 03:08	15° \mathbb{M} 34'26	1°52'14
max. Earth dist.	11310 Oct 10 02:54	27° \mathbb{M} 30'56	10.52684 AU	minimum elong	11316 Dec 29 03:09	15° \mathbb{M} 34'26	1°52'54
morning rise	11310 Oct 27 11:55	29° \mathbb{M} 38'42		max. Earth dist.	11316 Dec 28 18:36	15° \mathbb{M} 31'45	10.37383 AU
	11310 Oct 30 10:44	0° \mathbb{M}		morning rise	11317 Jan 15 20:04	17° \mathbb{M} 46'46	
retrograde	11311 Feb 09 07:04	7° \mathbb{M} 22'20		retrograde	11317 Apr 28 23:09	25° \mathbb{M} 33'22	
opposition	11311 Apr 19 06:57	3° \mathbb{M} 56'42	0°48'45	opposition	11317 Jul 05 09:27	22° \mathbb{M} 08'58	2°17'42
min. Earth dist.	11311 Apr 19 01:53	3° \mathbb{M} 57'42	8.50952 AU	min. Earth dist.	11317 Jul 05 16:11	22° \mathbb{M} 07'37	8.37196 AU
direct	11311 Jun 26 00:29	0° \mathbb{M} 33'49		direct	11317 Sep 11 15:31	18° \mathbb{M} 42'18	
evening set	11311 Oct 05 14:17	8° \mathbb{M} 05'49		evening set	11317 Dec 25 08:08	26° \mathbb{M} 34'42	
conjunction	11311 Oct 23 05:22	10° \mathbb{M} 15'49	0°50'47	conjunction	11318 Jan 12 01:41	28° \mathbb{M} 47'20	1°48'20
minimum elong	11311 Oct 23 05:20	10° \mathbb{M} 15'49	0°51'10	minimum elong	11318 Jan 12 01:42	28° \mathbb{M} 47'21	1°48'59
max. Earth dist.	11311 Oct 23 11:03	10° \mathbb{M} 17'35	10.49237 AU	max. Earth dist.	11318 Jan 11 16:01	28° \mathbb{M} 44'18	10.36967 AU
morning rise	11311 Nov 09 22:48	12° \mathbb{M} 26'35			11318 Jan 21 17:28	0° \mathbb{M}	
	11311 Dec 01 22:25	15° \mathbb{M}		morning rise	11318 Jan 29 17:21	0° \mathbb{M} 59'28	
retrograde	11312 Feb 22 15:25	20° \mathbb{M} 11'58		retrograde	11318 May 12 10:00	8° \mathbb{M} 44'28	

opposition	11318 Jul 18 18:04	5° \approx 20'32	2°09'20	max. Earth dist.	11324 Mar 31 23:31	16° Υ 48'54	10.51128 AU
min. Earth dist.	11318 Jul 19 01:41	5° \approx 19'01	8.37219 AU	morning rise	11324 Apr 18 10:53	18° Υ 58'34	
direct	11318 Sep 25 05:58	1° \approx 53'35		retrograde	11324 Jul 28 12:04	26° Υ 28'13	
evening set	11319 Jan 08 06:00	9° \approx 46'59		opposition	11324 Oct 04 17:19	23° Υ 06'47	-0°23'11
				min. Earth dist.	11324 Oct 04 22:28	23° Υ 05'47	8.53078 AU
conjunction	11319 Jan 25 22:44	11° \approx 59'24	1°38'46	direct	11324 Dec 13 13:00	19° Υ 41'36	
minimum elong	11319 Jan 25 22:46	11° \approx 59'24	1°39'20	evening set	11325 Mar 28 00:30	27° Υ 22'33	
max. Earth dist.	11319 Jan 25 12:12	11° \approx 56'05	10.37464 AU				
morning rise	11319 Feb 12 12:59	14° \approx 11'08		conjunction	11325 Apr 14 05:07	29° Υ 29'41	-0°31'01
	11319 Feb 19 05:29	15° \approx		minimum elong	11325 Apr 14 05:06	29° Υ 29'40	0°31'19
retrograde	11319 May 25 19:26	21° \approx 53'59		max. Earth dist.	11325 Apr 13 23:31	29° Υ 27'56	10.55045 AU
opposition	11319 Aug 01 03:10	18° \approx 30'32	1°54'10		11325 Apr 18 06:50	0° \mathcal{B}	
min. Earth dist.	11319 Aug 01 11:44	18° \approx 28'50	8.38145 AU	morning rise	11325 May 01 06:53	1° \mathcal{B} 36'00	
direct	11319 Oct 08 20:54	15° \approx 03'27		retrograde	11325 Aug 10 08:54	9° \mathcal{B} 03'50	
evening set	11320 Jan 22 01:59	22° \approx 56'45		opposition	11325 Oct 17 21:51	5° \mathcal{B} 42'41	-0°52'34
				min. Earth dist.	11325 Oct 18 01:46	5° \mathcal{B} 41'56	8.57022 AU
conjunction	11320 Feb 08 17:32	25° \approx 08'45	1°24'02	direct	11325 Dec 26 20:01	2° \mathcal{B} 18'16	
minimum elong	11320 Feb 08 17:34	25° \approx 08'45	1°24'30	evening set	11326 Apr 09 21:45	9° \mathcal{B} 55'41	
max. Earth dist.	11320 Feb 08 06:01	25° \approx 05'08	10.38858 AU				
morning rise	11320 Feb 26 06:16	27° \approx 19'56		conjunction	11326 Apr 26 23:33	12° \mathcal{B} 01'36	-0°53'50
	11320 Mar 19 22:00	0° \mathcal{H}		minimum elong	11326 Apr 26 23:31	12° \mathcal{B} 01'35	0°54'15
retrograde	11320 Jun 07 03:12	5° \mathcal{H} 00'08		max. Earth dist.	11326 Apr 26 19:31	12° \mathcal{B} 00'21	10.58939 AU
opposition	11320 Aug 13 12:08	1° \mathcal{H} 37'10	1°33'06	morning rise	11326 May 13 23:08	14° \mathcal{B} 06'50	
min. Earth dist.	11320 Aug 13 21:34	1° \mathcal{H} 35'18	8.39930 AU		11326 May 21 08:38	15° \mathcal{B}	
	11320 Sep 03 18:38	30° \mathcal{R} \approx		retrograde	11326 Aug 23 04:46	21° \mathcal{B} 33'21	
direct	11320 Oct 21 11:53	28° \approx 10'07		opposition	11326 Oct 31 01:00	18° \mathcal{B} 12'24	-1°19'12
	11320 Dec 07 09:44	0° \mathcal{H}		min. Earth dist.	11326 Oct 31 03:12	18° \mathcal{B} 11'58	8.60858 AU
evening set	11321 Feb 03 19:07	6° \mathcal{H} 02'21			11326 Dec 25 02:15	15° \mathcal{R} \mathcal{B}	
				direct	11327 Jan 09 00:13	14° \mathcal{B} 48'47	
conjunction	11321 Feb 21 09:06	8° \mathcal{H} 13'42	1°05'00		11327 Jan 23 20:31	15° \mathcal{B}	
minimum elong	11321 Feb 21 09:08	8° \mathcal{H} 13'42	1°05'20	evening set	11327 Apr 22 15:10	22° \mathcal{B} 22'42	
max. Earth dist.	11321 Feb 20 21:02	8° \mathcal{H} 09'55	10.41066 AU				
morning rise	11321 Mar 10 20:06	10° \mathcal{H} 24'10		conjunction	11327 May 09 14:28	24° \mathcal{B} 27'29	-1°13'56
retrograde	11321 Jun 20 08:04	18° \mathcal{H} 01'30		minimum elong	11327 May 09 14:26	24° \mathcal{B} 27'28	1°14'28
opposition	11321 Aug 26 20:49	14° \mathcal{H} 39'01	1°07'20	max. Earth dist.	11327 May 09 12:39	24° \mathcal{B} 26'55	10.62620 AU
min. Earth dist.	11321 Aug 27 06:02	14° \mathcal{H} 37'12	8.42465 AU	morning rise	11327 May 26 12:08	26° \mathcal{B} 31'45	
direct	11321 Nov 04 03:13	11° \mathcal{H} 12'11			11327 Jun 26 06:54	0° \mathcal{I}	
evening set	11322 Feb 17 08:31	19° \mathcal{H} 02'25		retrograde	11327 Sep 04 23:05	3° \mathcal{I} 57'27	
				opposition	11327 Nov 13 02:46	0° \mathcal{I} 36'34	-1°41'53
conjunction	11322 Mar 06 20:35	21° \mathcal{H} 12'55	0°42'45	min. Earth dist.	11327 Nov 13 02:28	0° \mathcal{I} 36'38	8.64389 AU
minimum elong	11322 Mar 06 20:37	21° \mathcal{H} 12'55	0°42'56		11327 Nov 21 03:31	30° \mathcal{R} \mathcal{B}	
max. Earth dist.	11322 Mar 06 09:24	21° \mathcal{H} 09'25	10.43953 AU	direct	11328 Jan 22 01:52	27° \mathcal{B} 13'48	
morning rise	11322 Mar 24 05:33	23° \mathcal{H} 22'29			11328 Mar 21 00:12	0° \mathcal{I}	
	11322 May 31 16:12	0° Υ		evening set	11328 May 04 05:22	4° \mathcal{I} 44'20	
retrograde	11322 Jul 03 10:23	0° Υ 57'02					
	11322 Aug 05 18:32	30° \mathcal{R} \mathcal{H}		conjunction	11328 May 21 02:35	6° \mathcal{I} 48'07	-1°30'28
opposition	11322 Sep 09 04:44	27° \mathcal{H} 34'56	0°38'19	minimum elong	11328 May 21 02:32	6° \mathcal{I} 48'06	1°31'05
min. Earth dist.	11322 Sep 09 12:45	27° \mathcal{H} 33'22	8.45613 AU	max. Earth dist.	11328 May 21 03:57	6° \mathcal{I} 48'32	10.65906 AU
direct	11322 Nov 17 17:50	24° \mathcal{H} 08'31		morning rise	11328 Jun 06 22:34	8° \mathcal{I} 51'34	
	11323 Feb 14 10:47	0° Υ		retrograde	11328 Sep 16 17:13	16° \mathcal{I} 16'56	
evening set	11323 Mar 02 17:57	1° Υ 56'03		opposition	11328 Nov 25 03:15	12° \mathcal{I} 56'03	-1°59'43
				min. Earth dist.	11328 Nov 25 00:26	12° \mathcal{I} 56'36	8.67451 AU
conjunction	11323 Mar 20 03:52	4° Υ 05'32	0°18'30	direct	11329 Feb 03 01:11	9° \mathcal{I} 34'05	
minimum elong	11323 Mar 20 03:52	4° Υ 05'32	0°18'32	evening set	11329 May 16 16:49	17° \mathcal{I} 01'28	
max. Earth dist.	11323 Mar 19 18:31	4° Υ 02'38	10.47366 AU				
morning rise	11323 Apr 06 10:30	6° Υ 14'04		conjunction	11329 Jun 02 12:26	19° \mathcal{I} 04'27	-1°42'46
retrograde	11323 Jul 16 12:21	13° Υ 46'01		minimum elong	11329 Jun 02 12:24	19° \mathcal{I} 04'27	1°43'26
opposition	11323 Sep 22 11:32	10° Υ 24'16	0°07'37	max. Earth dist.	11329 Jun 02 16:31	19° \mathcal{I} 05'42	10.68661 AU
min. Earth dist.	11323 Sep 22 17:57	10° Υ 23'01	8.49213 AU	morning rise	11329 Jun 19 07:23	21° \mathcal{I} 07'17	
direct	11323 Dec 01 04:38	6° Υ 58'24		retrograde	11329 Sep 29 12:27	28° \mathcal{I} 32'46	
desc. node	11323 Dec 23 13:57	7° Υ 23'59		opposition	11329 Dec 08 02:40	25° \mathcal{I} 11'47	-2°11'58
evening set	11324 Mar 14 23:17	14° Υ 42'46		min. Earth dist.	11329 Dec 07 22:03	25° \mathcal{I} 12'40	8.69927 AU
				direct	11330 Feb 15 20:32	21° \mathcal{I} 50'30	
conjunction	11324 Apr 01 06:43	16° Υ 51'07	-0°06'34	evening set	11330 May 29 02:00	29° \mathcal{I} 15'03	
minimum elong	11324 Apr 01 06:42	16° Υ 51'07	0°06'43		11330 Jun 04 06:54	0° \mathcal{E}	
behind sun begin	11324 Apr 01 00:03	16° Υ 49'04					
behind sun end	11324 Apr 01 13:22	16° Υ 53'10		conjunction	11330 Jun 14 20:35	1° \mathcal{E} 17'29	-1°50'21




























































































































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max. Earth dist.	11330 Jun 15 02:25	1°☾19'16	10.70784 AU	max. Earth dist.	11336 Aug 26 18:00	14°♊33'54	10.66555 AU
morning rise	11330 Jul 01 15:22	3°☾19'58		morning rise	11336 Sep 12 15:20	16°♊36'50	
retrograde	11330 Oct 12 05:02	10°☾45'56		retrograde	11336 Dec 26 04:13	24°♊12'05	
opposition	11330 Dec 21 00:58	7°☾24'45	-2°18'12	opposition	11337 Mar 06 01:17	20°♊48'00	-0°54'01
min. Earth dist.	11330 Dec 20 19:15	7°☾25'50	8.71712 AU	min. Earth dist.	11337 Mar 05 17:26	20°♊49'31	8.64903 AU
direct	11331 Feb 28 14:23	4°☾04'02		direct	11337 May 13 07:18	17°♊27'22	
evening set	11331 Jun 10 09:48	11°☾26'11		evening set	11337 Aug 21 20:23	24°♊47'59	
conjunction	11331 Jun 27 04:06	13°☾28'19	-1°52'56	conjunction	11337 Sep 08 02:58	26°♊54'01	-0°32'33
minimum elong	11331 Jun 27 04:06	13°☾28'19	1°53'37	minimum elong	11337 Sep 08 03:00	26°♊54'02	0°32'39
max. Earth dist.	11331 Jun 27 11:09	13°☾30'28	10.72184 AU	max. Earth dist.	11337 Sep 08 12:25	26°♊56'54	10.63092 AU
morning rise	11331 Jul 13 23:28	15°☾30'44		morning rise	11337 Sep 25 12:53	29°♊01'03	
retrograde	11331 Oct 24 21:36	22°☾57'31			11337 Oct 03 20:14	0°♊	
opposition	11332 Jan 02 22:07	19°☾36'02	-2°18'12	retrograde	11338 Jan 08 05:21	6°♊38'38	
min. Earth dist.	11332 Jan 02 15:07	19°☾37'21	8.72728 AU	opposition	11338 Mar 18 21:38	3°♊13'57	-0°25'12
direct	11332 Mar 12 08:06	16°☾15'45		min. Earth dist.	11338 Mar 18 14:07	3°♊15'25	8.61193 AU
evening set	11332 Jun 21 16:41	23°☾35'57			11338 May 14 05:49	30°♊	
conjunction	11332 Jul 08 11:38	25°☾38'07	-1°50'27	direct	11338 May 25 23:56	29°♊52'45	
minimum elong	11332 Jul 08 11:39	25°☾38'07	1°51'06		11338 Jun 06 15:13	0°♊	
max. Earth dist.	11332 Jul 08 20:42	25°☾40'53	10.72799 AU	evening set	11338 Sep 03 16:00	7°♊15'44	
morning rise	11332 Jul 25 08:11	27°☾40'43		conjunction	11338 Sep 21 01:29	9°♊22'59	-0°08'29
	11332 Aug 14 12:50	0°♊		minimum elong	11338 Sep 21 01:29	9°♊22'59	0°08'26
retrograde	11332 Nov 05 16:41	5°♊08'38		behind sun begin	11338 Sep 20 19:12	9°♊21'04	
opposition	11333 Jan 14 18:34	1°♊46'45	-2°12'01	behind sun end	11338 Sep 21 07:46	9°♊24'53	
min. Earth dist.	11333 Jan 14 09:55	1°♊48'23	8.72920 AU	max. Earth dist.	11338 Sep 21 10:19	9°♊25'41	10.59215 AU
	11333 Feb 08 12:10	30°♊		morning rise	11338 Oct 08 14:04	11°♊31'11	
direct	11333 Mar 24 23:32	28°☾26'46		retrograde	11339 Jan 21 09:44	19°♊11'06	
	11333 May 07 02:48	0°♊		asc. node	11339 Jan 29 04:00	19°♊07'59	
evening set	11333 Jul 03 23:27	5°♊45'31		opposition	11339 Mar 31 18:58	15°♊45'53	0°05'03
conjunction	11333 Jul 20 19:50	7°♊48'00	-1°43'00	min. Earth dist.	11339 Mar 31 12:14	15°♊47'12	8.57177 AU
minimum elong	11333 Jul 20 19:52	7°♊48'00	1°43'36	direct	11339 Jun 07 16:26	12°♊23'59	
max. Earth dist.	11333 Jul 21 06:44	7°♊51'19	10.72572 AU	evening set	11339 Sep 16 15:59	19°♊50'01	
morning rise	11333 Aug 06 18:12	9°♊51'05		conjunction	11339 Oct 04 03:57	21°♊58'25	0°16'15
	11333 Sep 25 05:52	15°♊		minimum elong	11339 Oct 04 03:56	21°♊58'25	0°16'27
retrograde	11333 Nov 18 11:35	17°♊20'25		max. Earth dist.	11339 Oct 04 10:57	22°♊00'33	10.55123 AU
	11334 Jan 13 19:22	15°♊		morning rise	11339 Oct 21 18:53	24°♊07'44	
opposition	11334 Jan 27 14:23	13°♊58'01	-1°59'54		11339 Dec 18 09:37	0°♊	
min. Earth dist.	11334 Jan 27 04:42	13°♊59'52	8.72231 AU	retrograde	11340 Feb 03 15:11	1°♊49'54	
direct	11334 Apr 06 13:14	10°♊38'09			11340 Mar 22 14:56	30°♊	
	11334 Jun 20 08:01	15°♊		opposition	11340 Apr 12 17:33	28°♊24'16	0°35'20
evening set	11334 Jul 16 07:17	17°♊56'09		min. Earth dist.	11340 Apr 12 12:33	28°♊25'15	8.53061 AU
conjunction	11334 Aug 02 05:37	19°♊59'12	-1°30'55	direct	11340 Jun 19 11:41	25°♊01'33	
minimum elong	11334 Aug 02 05:40	19°♊59'13	1°31'25		11340 Sep 07 03:02	0°♊	
max. Earth dist.	11334 Aug 02 16:54	20°♊02'38	10.71447 AU	evening set	11340 Sep 28 20:45	2°♊31'15	
morning rise	11334 Aug 19 06:28	22°♊03'00		conjunction	11340 Oct 16 10:48	4°♊40'43	0°40'19
retrograde	11334 Dec 01 07:52	29°♊34'00		minimum elong	11340 Oct 16 10:47	4°♊40'43	0°40'39
opposition	11335 Feb 09 09:44	26°♊11'04	-1°42'22	max. Earth dist.	11340 Oct 16 15:13	4°♊42'05	10.51018 AU
min. Earth dist.	11335 Feb 09 00:21	26°♊12'52	8.70615 AU	morning rise	11340 Nov 03 03:39	6°♊51'02	
direct	11335 Apr 19 02:53	22°♊51'07		retrograde	11341 Feb 15 21:29	14°♊35'14	
	11335 Jul 27 10:03	0°♊		opposition	11341 Apr 25 17:23	11°♊09'18	1°04'11
evening set	11335 Jul 28 16:52	0°♊09'11		min. Earth dist.	11341 Apr 25 14:37	11°♊09'51	8.49040 AU
conjunction	11335 Aug 14 17:35	2°♊13'04	-1°14'40	direct	11341 Jul 02 10:28	7°♊45'44	
minimum elong	11335 Aug 14 17:37	2°♊13'05	1°15'03		11341 Oct 09 13:35	15°♊	
max. Earth dist.	11335 Aug 15 03:49	2°♊16'11	10.69405 AU	evening set	11341 Oct 12 06:07	15°♊19'29	
morning rise	11335 Aug 31 21:24	4°♊17'49		conjunction	11341 Oct 29 21:54	17°♊29'56	1°02'35
retrograde	11335 Dec 14 06:16	11°♊50'49		minimum elong	11341 Oct 29 21:52	17°♊29'55	1°03'03
opposition	11336 Feb 22 05:20	8°♊27'20	-1°20'06	max. Earth dist.	11341 Oct 29 23:44	17°♊30'30	10.47087 AU
min. Earth dist.	11336 Feb 21 20:53	8°♊28'58	8.68114 AU	morning rise	11341 Nov 16 16:00	19°♊41'04	
direct	11336 Apr 30 16:02	5°♊07'08		retrograde	11342 Mar 01 05:57	27°♊26'59	
evening set	11336 Aug 09 04:52	12°♊26'04		opposition	11342 May 08 18:42	24°♊00'54	1°30'05
conjunction	11336 Aug 26 08:24	14°♊30'58	-0°54'56	min. Earth dist.	11342 May 08 17:54	24°♊01'03	8.45289 AU
				direct	11342 Jul 15 11:41	20°♊36'28	

evening set	11342 Oct 25 19:43	28° \mathbb{M} 14'28		min. Earth dist.	11348 Jul 25 16:06	12° \approx 39'56	8.36833 AU
	11342 Nov 09 02:06	0° \mathbb{A}		direct	11348 Oct 01 23:32	9° \approx 14'16	
					11348 Dec 28 03:56	15° \approx	
conjunction	11342 Nov 12 12:46	0° \mathbb{A} 25'43	1°21'52	evening set	11349 Jan 15 01:49	17° \approx 08'04	
minimum elong	11342 Nov 12 12:44	0° \mathbb{A} 25'43	1°22'26				
max. Earth dist.	11342 Nov 12 12:44	0° \mathbb{A} 25'43	10.43501 AU	conjunction	11349 Feb 01 18:02	19° \approx 20'23	1°31'23
morning rise	11342 Nov 30 07:21	2° \mathbb{A} 37'29		minimum elong	11349 Feb 01 18:05	19° \approx 20'24	1°31'53
retrograde	11343 Mar 14 15:45	10° \mathbb{A} 24'43		max. Earth dist.	11349 Feb 01 07:25	19° \approx 17'03	10.37473 AU
opposition	11343 May 21 21:31	6° \mathbb{A} 58'36	1°51'37	morning rise	11349 Feb 19 07:41	21° \approx 31'58	
min. Earth dist.	11343 May 21 22:05	6° \mathbb{A} 58'29	8.41979 AU	retrograde	11349 Jun 01 08:53	29° \approx 13'48	
direct	11343 Jul 28 15:55	3° \mathbb{A} 33'23		opposition	11349 Aug 07 17:18	25° \approx 50'32	1°43'25
evening set	11343 Nov 08 13:03	11° \mathbb{A} 15'33		min. Earth dist.	11349 Aug 08 01:09	25° \approx 48'59	8.38510 AU
				direct	11349 Oct 15 14:14	22° \approx 23'29	
conjunction	11343 Nov 26 06:55	13° \mathbb{A} 27'27	1°37'05		11350 Jan 26 14:06	0° \mathbb{H}	
minimum elong	11343 Nov 26 06:53	13° \mathbb{A} 27'27	1°37'44	evening set	11350 Jan 28 20:39	0° \mathbb{H} 16'42	
max. Earth dist.	11343 Nov 26 04:57	13° \mathbb{A} 26'51	10.40444 AU				
morning rise	11343 Dec 14 01:26	15° \mathbb{A} 39'38		conjunction	11350 Feb 15 11:35	2° \mathbb{H} 28'29	1°14'11
retrograde	11344 Mar 27 02:43	23° \mathbb{A} 27'37		minimum elong	11350 Feb 15 11:38	2° \mathbb{H} 28'29	1°14'34
opposition	11344 Jun 03 01:54	20° \mathbb{A} 01'39	2°07'34	max. Earth dist.	11350 Feb 15 01:29	2° \mathbb{H} 25'18	10.39605 AU
min. Earth dist.	11344 Jun 03 03:59	20° \mathbb{A} 01'14	8.39279 AU	morning rise	11350 Mar 04 23:24	4° \mathbb{H} 39'23	
direct	11344 Aug 09 22:25	16° \mathbb{A} 35'42		retrograde	11350 Jun 14 16:21	12° \mathbb{H} 18'32	
evening set	11344 Nov 21 09:16	24° \mathbb{A} 21'42		opposition	11350 Aug 21 02:37	8° \mathbb{H} 55'56	1°19'36
				min. Earth dist.	11350 Aug 21 10:25	8° \mathbb{H} 54'23	8.41006 AU
conjunction	11344 Dec 09 03:29	26° \mathbb{A} 34'06	1°47'21	direct	11350 Oct 29 05:09	5° \mathbb{H} 29'14	
minimum elong	11344 Dec 09 03:28	26° \mathbb{A} 34'06	1°48'03	evening set	11351 Feb 11 12:16	13° \mathbb{H} 20'52	
max. Earth dist.	11344 Dec 08 23:12	26° \mathbb{A} 32'46	10.38076 AU				
morning rise	11344 Dec 26 21:35	28° \mathbb{A} 46'31		conjunction	11351 Mar 01 01:27	15° \mathbb{H} 31'52	0°53'14
	11345 Jan 06 01:17	0° \mathbb{B}		minimum elong	11351 Mar 01 01:29	15° \mathbb{H} 31'53	0°53'28
retrograde	11345 Apr 09 15:24	6° \mathbb{B} 34'34		max. Earth dist.	11351 Feb 28 15:41	15° \mathbb{H} 28'49	10.42496 AU
opposition	11345 Jun 16 07:49	3° \mathbb{B} 08'55	2°16'58	morning rise	11351 Mar 18 11:19	17° \mathbb{H} 41'57	
min. Earth dist.	11345 Jun 16 11:49	3° \mathbb{B} 08'07	8.37321 AU	retrograde	11351 Jun 27 21:19	25° \mathbb{H} 18'16	
	11345 Aug 05 02:37	30° \mathbb{R} \mathbb{A}		opposition	11351 Sep 03 11:29	21° \mathbb{H} 56'17	0°51'51
direct	11345 Aug 23 06:42	29° \mathbb{A} 42'21		min. Earth dist.	11351 Sep 03 19:19	21° \mathbb{H} 54'45	8.44194 AU
	11345 Sep 10 11:35	0° \mathbb{B}		direct	11351 Nov 11 19:41	18° \mathbb{H} 30'03	
evening set	11345 Dec 05 07:28	7° \mathbb{B} 31'39		evening set	11352 Feb 25 00:24	26° \mathbb{H} 19'19	
conjunction	11345 Dec 23 01:33	9° \mathbb{B} 44'19	1°52'03	conjunction	11352 Mar 13 11:23	28° \mathbb{H} 29'22	0°29'43
minimum elong	11345 Dec 23 01:33	9° \mathbb{B} 44'19	1°52'45	minimum elong	11352 Mar 13 11:25	28° \mathbb{H} 29'22	0°29'48
max. Earth dist.	11345 Dec 22 18:30	9° \mathbb{B} 42'07	10.36520 AU	max. Earth dist.	11352 Mar 13 01:52	28° \mathbb{H} 26'23	10.45985 AU
morning rise	11346 Jan 09 18:54	11° \mathbb{B} 56'48			11352 Mar 25 14:15	0° \mathbb{Y}	
retrograde	11346 Apr 23 03:13	19° \mathbb{B} 44'12		morning rise	11352 Mar 30 19:08	0° \mathbb{Y} 38'27	
opposition	11346 Jun 29 15:00	16° \mathbb{B} 19'02	2°19'12	retrograde	11352 Jul 10 00:23	8° \mathbb{Y} 11'56	
min. Earth dist.	11346 Jun 29 21:09	16° \mathbb{B} 17'48	8.36221 AU	opposition	11352 Sep 15 19:23	4° \mathbb{Y} 50'30	0°21'41
direct	11346 Sep 05 18:12	12° \mathbb{B} 52'01		min. Earth dist.	11352 Sep 16 02:50	4° \mathbb{Y} 49'03	8.47891 AU
evening set	11346 Dec 19 06:19	20° \mathbb{B} 43'50		direct	11352 Nov 24 08:21	1° \mathbb{Y} 24'50	
				evening set	11353 Mar 09 08:27	9° \mathbb{Y} 11'06	
conjunction	11347 Jan 05 24:00	22° \mathbb{B} 56'34	1°50'52				
minimum elong	11347 Jan 06 00:01	22° \mathbb{B} 56'34	1°51'33	conjunction	11353 Mar 26 16:55	11° \mathbb{Y} 20'01	0°04'56
max. Earth dist.	11347 Jan 05 14:40	22° \mathbb{B} 53'38	10.35884 AU	minimum elong	11353 Mar 26 16:56	11° \mathbb{Y} 20'01	0°04'51
morning rise	11347 Jan 23 16:23	25° \mathbb{B} 08'57		behind sun begin	11353 Mar 26 09:58	11° \mathbb{Y} 17'52	
	11347 Mar 08 15:56	0° \approx		behind sun end	11353 Mar 26 23:54	11° \mathbb{Y} 22'10	
retrograde	11347 May 06 13:21	2° \approx 55'03		max. Earth dist.	11353 Mar 26 08:10	11° \mathbb{Y} 17'18	10.49863 AU
	11347 Jul 06 19:13	30° \mathbb{R} \mathbb{B}		morning rise	11353 Apr 12 22:23	13° \mathbb{Y} 28'01	
opposition	11347 Jul 12 23:14	29° \mathbb{B} 30'27	2°14'06	desc. node	11353 Jun 08 21:08	19° \mathbb{Y} 18'25	
min. Earth dist.	11347 Jul 13 06:41	29° \mathbb{B} 28'57	8.36056 AU	retrograde	11353 Jul 23 00:04	20° \mathbb{Y} 58'57	
direct	11347 Sep 19 08:48	26° \mathbb{B} 03'12		opposition	11353 Sep 29 02:17	17° \mathbb{Y} 37'54	-0°09'16
	11347 Nov 28 14:45	0° \approx		min. Earth dist.	11353 Sep 29 08:26	17° \mathbb{Y} 36'42	8.51865 AU
evening set	11348 Jan 02 04:40	3° \approx 56'32		direct	11353 Dec 07 20:04	14° \mathbb{Y} 12'54	
				evening set	11354 Mar 22 12:00	21° \mathbb{Y} 55'43	
conjunction	11348 Jan 19 21:47	6° \approx 09'10	1°43'51				
minimum elong	11348 Jan 19 21:48	6° \approx 09'11	1°44'27	conjunction	11354 Apr 08 17:51	24° \mathbb{Y} 03'24	-0°20'03
max. Earth dist.	11348 Jan 19 11:19	6° \approx 05'53	10.36211 AU	minimum elong	11354 Apr 08 17:51	24° \mathbb{Y} 03'24	0°20'16
morning rise	11348 Feb 06 12:58	8° \approx 21'15		max. Earth dist.	11354 Apr 08 10:57	24° \mathbb{Y} 01'16	10.53868 AU
	11348 Apr 13 22:01	15° \approx		morning rise	11354 Apr 25 20:51	26° \mathbb{Y} 10'16	
retrograde	11348 May 18 23:19	16° \approx 05'28			11354 May 29 21:57	0° \mathbb{B}	
	11348 Jun 23 12:01	15° \mathbb{R} \approx		retrograde	11354 Aug 04 22:13	3° \mathbb{B} 39'07	
opposition	11348 Jul 25 08:09	12° \approx 41'31	2°01'56	opposition	11354 Oct 12 07:49	0° \mathbb{B} 18'20	-0°39'29

min. Earth dist.	11354 Oct 12 12:09	0°♄17'29	8.55831 AU	retrograde	11360 Oct 18 18:05	17°♄54'36	
	11354 Oct 16 06:58	30°♄17'		opposition	11360 Dec 27 15:46	14°♄32'47	-2°18'58
direct	11354 Dec 21 05:25	26°♄54'02		min. Earth dist.	11360 Dec 27 09:28	14°♄33'59	8.70178 AU
	11355 Feb 21 18:21	0°♄		direct	11361 Mar 07 04:07	11°♄11'49	
evening set	11355 Apr 04 11:32	4°♄33'19		evening set	11361 Jun 16 17:12	18°♄33'50	
conjunction	11355 Apr 21 14:45	6°♄39'48	-0°43'45	conjunction	11361 Jul 03 11:58	20°♄36'16	-1°52'06
minimum elong	11355 Apr 21 14:43	6°♄39'47	0°44'07	minimum elong	11361 Jul 03 11:59	20°♄36'16	1°52'48
max. Earth dist.	11355 Apr 21 10:01	6°♄38'20	10.57706 AU	max. Earth dist.	11361 Jul 03 19:44	20°♄38'38	10.70196 AU
morning rise	11355 May 08 15:18	8°♄45'32		morning rise	11361 Jul 20 07:56	22°♄39'03	
	11355 Jul 11 04:30	15°♄			11361 Oct 19 07:41	0°♄	
retrograde	11355 Aug 17 20:58	16°♄12'53		retrograde	11361 Oct 31 13:26	0°♄07'31	
	11355 Sep 25 09:27	15°♄			11361 Nov 12 18:38	30°♄	
opposition	11355 Oct 25 11:55	12°♄52'16	-1°07'31	opposition	11362 Jan 09 13:21	26°♄45'11	-2°15'29
min. Earth dist.	11355 Oct 25 14:50	12°♄51'43	8.59517 AU	min. Earth dist.	11362 Jan 09 06:09	26°♄46'33	8.70300 AU
direct	11356 Jan 03 10:17	9°♄28'43		direct	11362 Mar 19 19:47	23°♄24'24	
	11356 Mar 29 13:35	15°♄			11362 Jun 22 17:14	0°♄	
evening set	11356 Apr 16 07:24	17°♄04'35		evening set	11362 Jun 29 00:41	0°♄44'52	
conjunction	11356 May 03 07:58	19°♄09'57	-1°05'12	conjunction	11362 Jul 15 20:25	2°♄47'31	-1°46'47
minimum elong	11356 May 03 07:56	19°♄09'56	1°05'41	minimum elong	11362 Jul 15 20:26	2°♄47'31	1°47'25
max. Earth dist.	11356 May 03 05:01	19°♄09'02	10.61164 AU	max. Earth dist.	11362 Jul 16 05:02	2°♄50'09	10.69955 AU
morning rise	11356 May 20 06:20	21°♄14'42		morning rise	11362 Aug 01 18:09	4°♄50'43	
retrograde	11356 Aug 29 16:47	28°♄41'08		retrograde	11362 Nov 13 07:18	12°♄20'34	
opposition	11356 Nov 06 15:05	25°♄20'36	-1°32'09	opposition	11363 Jan 22 10:13	8°♄57'41	-2°05'53
min. Earth dist.	11356 Nov 06 16:46	25°♄20'17	8.62779 AU	min. Earth dist.	11363 Jan 22 02:20	8°♄59'11	8.69672 AU
direct	11357 Jan 15 12:40	21°♄57'45		direct	11363 Apr 01 11:06	5°♄36'59	
evening set	11357 Apr 28 23:50	29°♄30'22		evening set	11363 Jul 11 08:39	12°♄56'32	
	11357 May 03 01:35	0°♄					
conjunction	11357 May 15 21:55	1°♄34'41	-1°23'28	conjunction	11363 Jul 28 06:07	14°♄59'40	-1°36'38
minimum elong	11357 May 15 21:53	1°♄34'41	1°24'03	minimum elong	11363 Jul 28 06:09	14°♄59'41	1°37'11
max. Earth dist.	11357 May 15 20:24	1°♄34'13	10.64161 AU	max. Earth dist.	11363 Jul 28 07:12	15°♄	
morning rise	11357 Jun 01 18:37	3°♄38'37		morning rise	11363 Jul 28 15:49	15°♄02'38	10.68976 AU
retrograde	11357 Sep 11 11:03	11°♄04'42		retrograde	11363 Aug 14 06:06	17°♄03'30	
opposition	11357 Nov 19 17:07	7°♄44'03	-1°52'18	opposition	11363 Nov 26 03:12	24°♄35'02	
min. Earth dist.	11357 Nov 19 17:23	7°♄44'00	8.65554 AU	min. Earth dist.	11364 Feb 04 06:33	21°♄11'34	-1°50'34
direct	11358 Jan 28 14:19	4°♄21'50		direct	11364 Feb 03 21:45	21°♄13'15	8.68308 AU
evening set	11358 May 11 13:19	11°♄51'21		evening set	11364 Apr 13 03:05	17°♄50'52	
					11364 Jul 22 17:54	25°♄10'09	
conjunction	11358 May 28 09:31	13°♄54'49	-1°37'46	conjunction	11364 Aug 08 17:46	27°♄14'02	-1°22'04
minimum elong	11358 May 28 09:29	13°♄54'49	1°38'24	minimum elong	11364 Aug 08 17:49	27°♄14'02	1°22'30
max. Earth dist.	11358 May 28 09:56	13°♄54'57	10.66638 AU	max. Earth dist.	11364 Aug 09 05:02	27°♄17'28	10.67291 AU
morning rise	11358 Jun 14 05:05	15°♄58'05		morning rise	11364 Aug 25 20:23	29°♄18'44	
retrograde	11358 Sep 24 05:32	23°♄24'14			11364 Aug 31 15:36	0°♄	
opposition	11358 Dec 02 17:45	20°♄03'19	-2°07'10	retrograde	11364 Dec 08 01:49	6°♄52'10	
min. Earth dist.	11358 Dec 02 15:52	20°♄03'40	8.67766 AU	opposition	11365 Feb 16 02:46	3°♄28'08	-1°30'09
direct	11359 Feb 10 13:24	16°♄41'36		min. Earth dist.	11365 Feb 15 16:57	3°♄30'01	8.66266 AU
evening set	11359 May 24 00:14	24°♄08'15		direct	11365 Apr 25 16:58	0°♄07'19	
				evening set	11365 Aug 04 05:25	7°♄27'02	
conjunction	11359 Jun 09 19:19	26°♄11'08	-1°47'31	conjunction	11365 Aug 21 08:01	9°♄31'51	-1°03'41
minimum elong	11359 Jun 09 19:18	26°♄11'07	1°48'12	minimum elong	11365 Aug 21 08:03	9°♄31'52	1°03'59
max. Earth dist.	11359 Jun 09 22:33	26°♄12'07	10.68512 AU	max. Earth dist.	11365 Aug 21 19:43	9°♄35'26	10.64968 AU
morning rise	11359 Jun 26 14:17	28°♄13'58		morning rise	11365 Sep 07 13:36	11°♄37'35	
	11359 Jul 11 16:46	0°♄		retrograde	11365 Dec 21 01:24	19°♄13'05	
retrograde	11359 Oct 06 23:30	5°♄40'32		retrograde	11365 Dec 21 01:24	19°♄13'05	
opposition	11359 Dec 15 17:15	2°♄19'13	-2°16'10	opposition	11366 Feb 28 23:12	15°♄48'32	-1°05'29
min. Earth dist.	11359 Dec 15 12:56	2°♄20'02	8.69326 AU	min. Earth dist.	11366 Feb 28 13:29	15°♄50'25	8.63629 AU
	11360 Jan 18 12:13	30°♄		direct	11366 May 08 06:57	12°♄27'29	
direct	11360 Feb 23 09:43	28°♄57'55		evening set	11366 Aug 16 20:11	19°♄48'26	
	11360 Mar 29 13:21	0°♄					
evening set	11360 Jun 04 09:15	6°♄22'03		conjunction	11366 Sep 03 01:33	21°♄54'19	-0°42'15
				minimum elong	11366 Sep 03 01:34	21°♄54'19	0°42'24
conjunction	11360 Jun 21 03:51	8°♄24'33	-1°52'21	max. Earth dist.	11366 Sep 03 12:21	21°♄57'37	10.62106 AU
minimum elong	11360 Jun 21 03:51	8°♄24'33	1°53'04	morning rise	11366 Sep 20 10:15	24°♄01'10	
max. Earth dist.	11360 Jun 21 09:58	8°♄26'26	10.69709 AU		11366 Nov 19 03:39	0°♄	
morning rise	11360 Jul 07 22:51	10°♄27'13		retrograde	11367 Jan 03 02:41	1°♄38'50	

	11367 Feb 17 20:50	30° \mathbb{R} \mathbb{M}		max. Earth dist.	11372 Nov 19 22:53	8° \mathbb{X} 22'02	10.42452 AU
opposition	11367 Mar 13 20:02	28° \mathbb{M} 13'51 -0°37'36		morning rise	11372 Dec 07 18:08	10° \mathbb{X} 34'14	
min. Earth dist.	11367 Mar 13 11:22	28° \mathbb{M} 15'33 8.60526 AU		retrograde	11373 Mar 21 23:49	18° \mathbb{X} 21'59	
direct	11367 May 20 22:49	24° \mathbb{M} 52'25		opposition	11373 May 29 00:53	14° \mathbb{X} 56'29	2°01'31
	11367 Aug 10 03:32	0° \mathbb{L}		min. Earth dist.	11373 May 29 02:19	14° \mathbb{X} 56'12	8.41353 AU
evening set	11367 Aug 29 14:39	2° \mathbb{L} 15'23		direct	11373 Aug 04 19:22	11° \mathbb{X} 31'22	
				evening set	11373 Nov 16 01:38	19° \mathbb{X} 15'44	
conjunction	11367 Sep 15 22:50	4° \mathbb{L} 22'23 -0°18'43		conjunction	11373 Dec 03 19:32	21° \mathbb{X} 27'50	1°43'36
minimum elong	11367 Sep 15 22:50	4° \mathbb{L} 22'23 0°18'43		minimum elong	11373 Dec 03 19:31	21° \mathbb{X} 27'49	1°44'16
max. Earth dist.	11367 Sep 16 08:14	4° \mathbb{L} 25'15 10.58850 AU		max. Earth dist.	11373 Dec 03 15:51	21° \mathbb{X} 26'41	10.40176 AU
morning rise	11367 Oct 03 10:30	6° \mathbb{L} 30'23		morning rise	11373 Dec 21 13:56	23° \mathbb{X} 40'05	
retrograde	11368 Jan 16 05:52	14° \mathbb{L} 10'17			11374 Feb 22 05:49	0° \mathbb{Z}	
opposition	11368 Mar 25 17:50	10° \mathbb{L} 44'57 -0°07'43		retrograde	11374 Apr 04 11:13	1° \mathbb{Z} 27'56	
min. Earth dist.	11368 Mar 25 10:26	10° \mathbb{L} 46'24 8.57121 AU			11374 May 16 05:27	30° \mathbb{R} \mathbb{X}	
direct	11368 Jun 01 15:57	7° \mathbb{L} 23'04		opposition	11374 Jun 11 06:22	28° \mathbb{X} 02'44	2°13'40
asc. node	11368 Jun 28 13:07	8° \mathbb{L} 01'13		min. Earth dist.	11374 Jun 11 09:57	28° \mathbb{X} 02'00	8.39353 AU
evening set	11368 Sep 10 13:16	14° \mathbb{L} 48'41		direct	11374 Aug 18 03:55	24° \mathbb{X} 36'58	
					11374 Nov 09 12:52	0° \mathbb{Z}	
conjunction	11368 Sep 28 00:13	16° \mathbb{L} 56'49 0°05'58		evening set	11374 Nov 29 23:05	2° \mathbb{Z} 24'41	
minimum elong	11368 Sep 28 00:13	16° \mathbb{L} 56'49 0°06'07					
behind sun begin	11368 Sep 27 17:24	16° \mathbb{L} 54'45		conjunction	11374 Dec 17 17:09	4° \mathbb{Z} 37'07	1°50'37
behind sun end	11368 Sep 28 07:02	16° \mathbb{L} 58'54		minimum elong	11374 Dec 17 17:09	4° \mathbb{Z} 37'07	1°51'19
max. Earth dist.	11368 Sep 28 08:46	16° \mathbb{L} 59'26 10.55363 AU		max. Earth dist.	11374 Dec 17 11:06	4° \mathbb{Z} 35'13	10.38421 AU
morning rise	11368 Oct 15 14:26	19° \mathbb{L} 05'56		morning rise	11375 Jan 04 10:51	6° \mathbb{Z} 49'28	
retrograde	11369 Jan 28 10:22	26° \mathbb{L} 48'03		retrograde	11375 Apr 17 23:07	14° \mathbb{Z} 36'57	
opposition	11369 Apr 07 16:36	23° \mathbb{L} 22'27 0°22'47		opposition	11375 Jun 24 13:06	11° \mathbb{Z} 12'06	2°18'51
min. Earth dist.	11369 Apr 07 10:05	23° \mathbb{L} 23'43 8.53582 AU		min. Earth dist.	11375 Jun 24 18:09	11° \mathbb{Z} 11'06	8.37914 AU
direct	11369 Jun 14 12:02	20° \mathbb{L} 00'01		direct	11375 Aug 31 14:50	7° \mathbb{Z} 45'50	
evening set	11369 Sep 23 16:45	27° \mathbb{L} 28'57		evening set	11375 Dec 13 21:49	15° \mathbb{Z} 36'21	
conjunction	11369 Oct 11 06:08	29° \mathbb{L} 38'10 0°30'25		conjunction	11375 Dec 31 15:47	17° \mathbb{Z} 48'58	1°51'51
minimum elong	11369 Oct 11 06:07	29° \mathbb{L} 38'09 0°30'42		minimum elong	11375 Dec 31 15:48	17° \mathbb{Z} 48'58	1°52'32
max. Earth dist.	11369 Oct 11 13:38	29° \mathbb{L} 40'29 10.51811 AU		max. Earth dist.	11375 Dec 31 08:00	17° \mathbb{Z} 46'31	10.37321 AU
	11369 Oct 14 04:49	0° \mathbb{M}		morning rise	11376 Jan 18 08:29	20° \mathbb{Z} 01'16	
morning rise	11369 Oct 28 22:16	1° \mathbb{M} 48'15		retrograde	11376 Apr 30 10:43	27° \mathbb{Z} 47'44	
retrograde	11370 Feb 10 17:21	9° \mathbb{M} 32'23		opposition	11376 Jul 06 20:51	24° \mathbb{Z} 23'22	2°16'45
opposition	11370 Apr 20 16:26	6° \mathbb{M} 06'38 0°52'26		min. Earth dist.	11376 Jul 07 03:20	24° \mathbb{Z} 22'04	8.37203 AU
min. Earth dist.	11370 Apr 20 10:59	6° \mathbb{M} 07'43 8.50078 AU		direct	11376 Sep 13 03:33	20° \mathbb{Z} 56'41	
direct	11370 Jun 27 09:58	2° \mathbb{M} 43'37		evening set	11376 Dec 26 20:45	28° \mathbb{Z} 49'10	
evening set	11370 Oct 07 01:00	10° \mathbb{M} 16'17			11377 Jan 05 09:09	0° \mathbb{Z}	
conjunction	11370 Oct 24 16:15	12° \mathbb{M} 26'29 0°53'35		conjunction	11377 Jan 13 14:13	1° \mathbb{Z} 01'46	1°47'11
minimum elong	11370 Oct 24 16:13	12° \mathbb{M} 26'28 0°54'00		minimum elong	11377 Jan 13 14:15	1° \mathbb{Z} 01'47	1°47'50
max. Earth dist.	11370 Oct 24 21:57	12° \mathbb{M} 28'15 10.48369 AU		max. Earth dist.	11377 Jan 13 04:35	0° \mathbb{Z} 58'45	10.37035 AU
morning rise	11370 Nov 11 09:43	14° \mathbb{M} 37'23		morning rise	11377 Jan 31 05:45	3° \mathbb{Z} 13'52	
	11370 Nov 14 12:43	15° \mathbb{M}		retrograde	11377 May 13 21:49	10° \mathbb{Z} 58'40	
retrograde	11371 Feb 24 03:39	22° \mathbb{M} 23'14		opposition	11377 Jul 20 05:35	7° \mathbb{Z} 34'48	2°07'27
opposition	11371 May 03 17:50	18° \mathbb{M} 57'28 1°19'43		min. Earth dist.	11377 Jul 20 13:35	7° \mathbb{Z} 33'12	8.37341 AU
min. Earth dist.	11371 May 03 14:03	18° \mathbb{M} 58'13 8.46783 AU		direct	11377 Sep 26 17:17	4° \mathbb{Z} 07'51	
direct	11371 Jul 10 09:01	15° \mathbb{M} 33'48		evening set	11378 Jan 09 18:36	12° \mathbb{Z} 01'14	
evening set	11371 Oct 20 13:32	23° \mathbb{M} 10'25					
conjunction	11371 Nov 07 06:05	25° \mathbb{M} 21'24 1°14'14		conjunction	11378 Jan 27 11:09	14° \mathbb{Z} 13'37	1°36'54
minimum elong	11371 Nov 07 06:03	25° \mathbb{M} 21'23 1°14'46		minimum elong	11378 Jan 27 11:11	14° \mathbb{Z} 13'38	1°37'28
max. Earth dist.	11371 Nov 07 08:54	25° \mathbb{M} 22'17 10.45206 AU		max. Earth dist.	11378 Jan 26 23:58	14° \mathbb{Z} 10'07	10.37639 AU
morning rise	11371 Nov 25 00:25	27° \mathbb{M} 32'58			11378 Feb 02 14:57	15° \mathbb{Z}	
	11371 Dec 15 22:47	0° \mathbb{X}		morning rise	11378 Feb 14 01:19	16° \mathbb{Z} 25'19	
retrograde	11372 Mar 08 13:54	5° \mathbb{X} 20'04		retrograde	11378 May 27 07:23	24° \mathbb{Z} 07'53	
opposition	11372 May 15 20:46	1° \mathbb{X} 54'23 1°43'11		opposition	11378 Aug 02 14:45	20° \mathbb{Z} 44'33	1°51'28
min. Earth dist.	11372 May 15 19:32	1° \mathbb{X} 54'38 8.43842 AU		min. Earth dist.	11378 Aug 02 23:51	20° \mathbb{Z} 42'44	8.38367 AU
	11372 Jun 10 06:58	30° \mathbb{R} \mathbb{M}		direct	11378 Oct 10 08:34	17° \mathbb{Z} 17'30	
direct	11372 Jul 22 12:16	28° \mathbb{M} 30'00		evening set	11379 Jan 23 14:18	25° \mathbb{Z} 10'43	
	11372 Sep 02 04:06	0° \mathbb{X}					
evening set	11372 Nov 02 06:06	6° \mathbb{X} 10'37		conjunction	11379 Feb 10 05:39	27° \mathbb{Z} 22'39	1°21'34
				minimum elong	11379 Feb 10 05:42	27° \mathbb{Z} 22'40	1°22'01
conjunction	11372 Nov 19 23:30	8° \mathbb{X} 22'13 1°31'14		max. Earth dist.	11379 Feb 09 17:33	27° \mathbb{Z} 18'51	10.39130 AU
minimum elong	11372 Nov 19 23:28	8° \mathbb{X} 22'13 1°31'50		morning rise	11379 Feb 27 18:20	29° \mathbb{Z} 33'47	

	11379 Mar 03 08:03	0°♄		minimum elong	11385 Apr 28 09:19	14°♄11'58	0°57'05
retrograde	11379 Jun 09 13:39	7°♄13'43		max. Earth dist.	11385 Apr 28 05:26	14°♄10'46	10.59416 AU
opposition	11379 Aug 15 23:44	3°♄50'52	1°29'43		11385 May 04 20:44	15°♄	
min. Earth dist.	11379 Aug 16 09:07	3°♄49'00	8.40244 AU	morning rise	11385 May 15 08:46	16°♄17'07	
direct	11379 Oct 24 00:50	0°♄23'53		retrograde	11385 Aug 24 14:04	23°♄43'26	
evening set	11380 Feb 06 07:00	8°♄15'56		opposition	11385 Nov 01 11:44	20°♄22'28	-1°22'23
				min. Earth dist.	11385 Nov 01 13:16	20°♄22'10	8.61316 AU
conjunction	11380 Feb 23 20:53	10°♄27'12	1°02'04	direct	11386 Jan 10 11:17	16°♄58'57	
minimum elong	11380 Feb 23 20:55	10°♄27'13	1°02'23	evening set	11386 Apr 24 00:40	24°♄32'25	
max. Earth dist.	11380 Feb 23 09:02	10°♄23'29	10.41424 AU				
morning rise	11380 Mar 12 07:47	12°♄37'36		conjunction	11386 May 10 23:50	26°♄37'04	-1°16'16
retrograde	11380 Jun 21 18:25	20°♄14'42		minimum elong	11386 May 10 23:48	26°♄37'03	1°16'49
opposition	11380 Aug 28 08:20	16°♄52'18	1°03'28	max. Earth dist.	11386 May 10 22:56	26°♄36'47	10.63049 AU
min. Earth dist.	11380 Aug 28 16:53	16°♄50'36	8.42855 AU	morning rise	11386 May 27 21:14	28°♄41'14	
direct	11380 Nov 05 16:13	13°♄25'35			11386 Jun 07 23:05	0°♄	
evening set	11381 Feb 18 20:09	21°♄15'33		retrograde	11386 Sep 06 08:58	6°♄06'48	
				opposition	11386 Nov 14 13:13	2°♄45'54	-1°44'26
conjunction	11381 Mar 08 08:10	23°♄25'58	0°39'31	min. Earth dist.	11386 Nov 14 12:13	2°♄46'05	8.64789 AU
minimum elong	11381 Mar 08 08:12	23°♄25'59	0°39'39		11386 Dec 27 02:57	30°♄	
max. Earth dist.	11381 Mar 07 21:46	23°♄22'43	10.44377 AU	direct	11387 Jan 23 12:57	29°♄23'11	
morning rise	11381 Mar 25 16:53	25°♄35'26			11387 Feb 19 13:14	0°♄	
	11381 May 04 08:53	0°♄		evening set	11387 May 06 14:29	6°♄53'17	
retrograde	11381 Jul 04 22:40	3°♄09'45					
	11381 Sep 08 01:31	30°♄		conjunction	11387 May 23 11:35	8°♄56'58	-1°32'15
opposition	11381 Sep 10 16:08	29°♄47'44	0°34'11	minimum elong	11387 May 23 11:33	8°♄56'57	1°32'52
min. Earth dist.	11381 Sep 10 23:36	29°♄46'16	8.46057 AU	max. Earth dist.	11387 May 23 13:30	8°♄57'33	10.66265 AU
direct	11381 Nov 19 04:33	26°♄21'27		morning rise	11387 Jun 09 07:24	11°♄00'19	
	11382 Jan 26 05:32	0°♄		retrograde	11387 Sep 19 04:03	18°♄25'35	
evening set	11382 Mar 04 05:17	4°♄08'39		opposition	11387 Nov 27 13:21	15°♄04'40	-2°01'30
				min. Earth dist.	11387 Nov 27 10:38	15°♄05'11	8.67772 AU
conjunction	11382 Mar 21 15:02	6°♄18'02	0°15'08	direct	11388 Feb 05 10:19	11°♄42'42	
minimum elong	11382 Mar 21 15:02	6°♄18'03	0°15'07	evening set	11388 May 18 01:39	19°♄09'43	
behind sun begin	11382 Mar 21 12:34	6°♄17'17					
behind sun end	11382 Mar 21 17:30	6°♄18'48		conjunction	11388 Jun 03 21:05	21°♄12'37	-1°43'55
max. Earth dist.	11382 Mar 21 06:20	6°♄15'20	10.47833 AU	minimum elong	11388 Jun 03 21:04	21°♄12'37	1°44'35
morning rise	11382 Apr 07 21:23	8°♄26'28		max. Earth dist.	11388 Jun 04 00:45	21°♄13'45	10.68932 AU
retrograde	11382 Jul 17 23:35	15°♄58'10		morning rise	11388 Jun 20 16:04	23°♄15'24	
opposition	11382 Sep 23 22:59	12°♄36'30	0°03'26		11388 Sep 02 10:54	0°♄	
min. Earth dist.	11382 Sep 24 05:25	12°♄35'15	8.49694 AU	retrograde	11388 Sep 30 20:57	0°♄40'47	
desc. node	11382 Nov 04 04:57	9°♄51'06			11388 Oct 29 16:40	30°♄	
direct	11382 Dec 02 15:31	9°♄10'45		opposition	11388 Dec 09 12:33	27°♄19'46	-2°12'57
evening set	11383 Mar 17 10:10	16°♄54'45		min. Earth dist.	11388 Dec 09 08:29	27°♄20'32	8.70147 AU
				direct	11389 Feb 17 05:24	23°♄58'28	
conjunction	11383 Apr 03 17:18	19°♄02'58	-0°09'54		11389 May 18 16:48	0°♄	
minimum elong	11383 Apr 03 17:17	19°♄02'58	0°10'05	evening set	11389 May 30 10:31	1°♄22'43	
behind sun begin	11383 Apr 03 11:33	19°♄01'12					
behind sun end	11383 Apr 03 23:01	19°♄04'44		conjunction	11389 Jun 16 05:00	3°♄25'05	-1°50'49
max. Earth dist.	11383 Apr 03 10:02	19°♄00'44	10.51620 AU	minimum elong	11389 Jun 16 04:59	3°♄25'05	1°51'31
morning rise	11383 Apr 20 21:18	21°♄10'19		max. Earth dist.	11389 Jun 16 10:17	3°♄26'42	10.70947 AU
retrograde	11383 Jul 30 22:07	28°♄39'45		morning rise	11389 Jul 02 23:54	5°♄27'33	
opposition	11383 Oct 07 04:37	25°♄18'23	-0°27'13	retrograde	11389 Oct 13 13:21	12°♄53'31	
min. Earth dist.	11383 Oct 07 10:12	25°♄17'18	8.53578 AU	opposition	11389 Dec 22 10:38	9°♄32'15	-2°18'20
direct	11383 Dec 16 00:53	21°♄53'17		min. Earth dist.	11389 Dec 22 05:03	9°♄33'19	8.71817 AU
evening set	11384 Mar 29 11:01	29°♄33'51		direct	11390 Mar 02 01:04	6°♄11'31	
	11384 Apr 02 00:52	0°♄		evening set	11390 Jun 11 18:01	13°♄33'25	
conjunction	11384 Apr 15 15:18	1°♄40'50	-0°34'10	conjunction	11390 Jun 28 12:27	15°♄35'33	-1°52'43
minimum elong	11384 Apr 15 15:16	1°♄40'49	0°34'29	minimum elong	11390 Jun 28 12:28	15°♄35'33	1°53'24
max. Earth dist.	11384 Apr 15 09:10	1°♄38'56	10.55543 AU	max. Earth dist.	11390 Jun 28 19:50	15°♄37'49	10.72230 AU
morning rise	11384 May 02 16:57	3°♄47'02		morning rise	11390 Jul 15 07:55	17°♄37'58	
retrograde	11384 Aug 11 19:14	11°♄14'39		retrograde	11390 Oct 26 07:26	25°♄04'48	
opposition	11384 Oct 19 08:49	7°♄53'32	-0°56'16	opposition	11391 Jan 04 07:32	21°♄43'13	-2°17'30
min. Earth dist.	11384 Oct 19 12:46	7°♄52'46	8.57516 AU	min. Earth dist.	11391 Jan 04 00:01	21°♄44'39	8.72710 AU
direct	11384 Dec 28 07:16	4°♄29'12		direct	11391 Mar 14 17:29	18°♄22'55	
evening set	11385 Apr 11 07:47	12°♄06'12		evening set	11391 Jun 24 00:51	25°♄42'57	
conjunction	11385 Apr 28 09:21	14°♄11'58	-0°56'38	conjunction	11391 Jul 10 20:04	27°♄45'09	-1°49'33

minimum elong	11391 Jul 10 20:05	27°  45'09	1°50'13	conjunction	11397 Sep 22 11:39	11°  32'22	-0°05'13
max. Earth dist.	11391 Jul 11 05:49	27°  48'07	10.72719 AU	minimum elong	11397 Sep 22 11:39	11°  32'22	0°05'08
morning rise	11391 Jul 27 16:43	29°  47'48		behind sun begin	11397 Sep 22 04:41	11°  30'15	
	11391 Jul 29 09:41	0°  0		behind sun end	11397 Sep 22 18:37	11°  34'29	
retrograde	11391 Nov 08 01:52	7°  15'49		max. Earth dist.	11397 Sep 22 19:57	11°  34'54	10.58790 AU
opposition	11392 Jan 17 03:51	3°  53'49	-2°10'31	morning rise	11397 Oct 10 00:30	13°  40'43	
min. Earth dist.	11392 Jan 16 18:48	3°  55'32	8.72778 AU	asc. node	11397 Dec 11 11:35	19°  52'11	
direct	11392 Mar 26 07:47	0°  33'49		retrograde	11398 Jan 22 20:31	21°  20'55	
evening set	11392 Jul 05 07:45	7°  52'31		opposition	11398 Apr 02 04:57	17°  55'44	0°09'06
				min. Earth dist.	11398 Apr 01 22:44	17°  56'57	8.56728 AU
conjunction	11392 Jul 22 04:19	9°  55'03	-1°41'28	direct	11398 Jun 09 01:40	14°  33'47	
minimum elong	11392 Jul 22 04:21	9°  55'04	1°42'04	evening set	11398 Sep 18 02:41	22°  00'19	
max. Earth dist.	11392 Jul 22 15:13	9°  58'23	10.72382 AU				
morning rise	11392 Aug 08 02:55	11°  58'12		conjunction	11398 Oct 05 14:45	24°  08'50	0°19'29
	11392 Sep 03 23:20	15°  0		minimum elong	11398 Oct 05 14:44	24°  08'50	0°19'43
retrograde	11392 Nov 19 21:27	19°  02'41		max. Earth dist.	11398 Oct 05 20:41	24°  10'39	10.54655 AU
opposition	11393 Jan 28 23:45	16°  05'14	-1°57'40	morning rise	11398 Oct 23 05:57	26°  18'16	
min. Earth dist.	11393 Jan 28 14:17	16°  07'02	8.72000 AU		11398 Nov 25 04:04	0°  0	
	11393 Feb 12 12:48	15°  00'00		retrograde	11399 Feb 05 01:40	4°  00'46	
direct	11393 Apr 07 22:05	12°  04'51		opposition	11399 Apr 15 03:47	0°  35'10	0°39'14
	11393 May 30 02:14	15°  0		min. Earth dist.	11399 Apr 14 23:34	0°  36'00	8.52582 AU
evening set	11393 Jul 17 15:46	20°  03'20			11399 Apr 22 15:07	30°  00'00	
				direct	11399 Jun 21 22:03	27°  12'25	
conjunction	11393 Aug 03 14:15	22°  06'29	-1°28'49		11399 Aug 18 19:10	0°  0	
minimum elong	11393 Aug 03 14:17	22°  06'29	1°29'19	evening set	11399 Oct 01 08:01	4°  00'00	
max. Earth dist.	11393 Aug 04 00:54	22°  09'44	10.71199 AU				
morning rise	11393 Aug 20 15:29	24°  10'23		conjunction	11399 Oct 18 22:13	6°  52'16	0°43'21
	11393 Oct 17 22:26	0°  0		minimum elong	11399 Oct 18 22:11	6°  52'15	0°43'43
retrograde	11393 Dec 02 17:46	1°  00'00		max. Earth dist.	11399 Oct 19 02:06	6°  53'28	10.50535 AU
	11394 Jan 18 14:43	30°  00'00		morning rise	11399 Nov 05 15:11	9°  02'41	
opposition	11394 Feb 10 19:12	28°  01'83	-1°39'29		11400 Jan 02 23:44	15°  00'00	
min. Earth dist.	11394 Feb 10 10:22	28°  02'15	8.70354 AU	retrograde	11400 Feb 18 08:57	16°  00'00	
direct	11394 Apr 20 11:10	24°  05'32			11400 Apr 06 11:49	15°  00'00	
	11394 Jul 10 06:14	0°  0		opposition	11400 Apr 28 04:00	13°  00'00	1°07'43
evening set	11394 Jul 30 01:31	2°  00'00		min. Earth dist.	11400 Apr 28 01:29	13°  00'00	8.48565 AU
				direct	11400 Jul 04 20:50	9°  00'00	
conjunction	11394 Aug 16 02:32	4°  00'00	-1°12'06		11400 Sep 22 23:38	15°  00'00	
minimum elong	11394 Aug 16 02:34	4°  00'00	1°12'28	evening set	11400 Oct 14 17:53	17°  00'00	
max. Earth dist.	11394 Aug 16 12:37	4°  00'00	10.69142 AU				
morning rise	11394 Sep 02 06:43	6°  00'00		conjunction	11400 Nov 01 09:51	19°  00'00	1°05'15
retrograde	11394 Dec 15 14:32	13°  00'00		minimum elong	11400 Nov 01 09:49	19°  00'00	1°05'44
opposition	11395 Feb 23 14:44	10°  00'00	-1°16'41	max. Earth dist.	11400 Nov 01 12:03	19°  00'00	10.46621 AU
min. Earth dist.	11395 Feb 23 06:23	10°  00'00	8.67835 AU	morning rise	11400 Nov 19 03:55	21°  00'00	
direct	11395 May 03 01:37	7°  00'00		retrograde	11401 Mar 03 17:17	29°  00'00	
evening set	11395 Aug 11 13:53	14°  00'00		opposition	11401 May 11 05:38	26°  00'00	1°33'05
				min. Earth dist.	11401 May 11 04:26	26°  00'00	8.44849 AU
conjunction	11395 Aug 28 17:48	16°  00'00	-0°52'00	direct	11401 Jul 17 23:07	22°  00'00	
minimum elong	11395 Aug 28 17:50	16°  00'00	0°52'13		11401 Oct 24 11:01	0°  00'00	
max. Earth dist.	11395 Aug 29 03:53	16°  00'00	10.66253 AU	evening set	11401 Oct 28 08:08	0°  00'00	
morning rise	11395 Sep 15 00:56	18°  00'00					
retrograde	11395 Dec 28 14:06	26°  00'00		conjunction	11401 Nov 15 01:20	2°  00'00	1°24'01
opposition	11396 Mar 07 10:40	22°  00'00	-0°50'13	minimum elong	11401 Nov 15 01:17	2°  00'00	1°24'36
min. Earth dist.	11396 Mar 07 02:26	22°  00'00	8.64571 AU	max. Earth dist.	11401 Nov 15 01:44	2°  00'00	10.43085 AU
direct	11396 May 14 17:11	19°  00'00		morning rise	11401 Dec 02 19:48	4°  00'00	
evening set	11396 Aug 23 05:50	26°  00'00		retrograde	11402 Mar 17 03:45	12°  00'00	
				opposition	11402 May 24 08:42	9°  00'00	1°53'54
conjunction	11396 Sep 09 12:43	29°  00'00	-0°29'22	min. Earth dist.	11402 May 24 09:02	9°  00'00	8.41603 AU
minimum elong	11396 Sep 09 12:45	29°  00'00	0°29'26	direct	11402 Jul 31 03:06	5°  00'00	
max. Earth dist.	11396 Sep 09 22:31	29°  00'00	10.62726 AU	evening set	11402 Nov 11 01:59	13°  00'00	
	11396 Sep 17 08:20	0°  0					
morning rise	11396 Sep 26 22:47	1°  00'00		conjunction	11402 Nov 28 19:49	15°  00'00	1°38'35
retrograde	11397 Jan 09 16:55	8°  00'00		minimum elong	11402 Nov 28 19:47	15°  00'00	1°39'15
opposition	11397 Mar 20 07:17	5°  00'00	-0°21'11	max. Earth dist.	11402 Nov 28 17:39	15°  00'00	10.40107 AU
min. Earth dist.	11397 Mar 19 23:33	5°  00'00	8.60796 AU	morning rise	11402 Dec 16 14:15	17°  00'00	
direct	11397 May 27 08:01	2°  00'00		retrograde	11403 Mar 30 16:17	25°  00'00	
evening set	11397 Sep 05 01:59	9°  00'00		opposition	11403 Jun 06 13:27	22°  00'00	2°09'00
				min. Earth dist.	11403 Jun 06 15:52	22°  00'00	8.38992 AU

direct	11403 Aug 13 08:38	18° ♁ 50'43		retrograde	11409 Jun 17 03:07	14° ♁ 32'06	
evening set	11403 Nov 24 22:24	26° ♁ 37'10		opposition	11409 Aug 23 14:01	11° ♁ 09'32	1°15'59
				min. Earth dist.	11409 Aug 23 22:20	11° ♁ 07'53	8.41373 AU
conjunction	11403 Dec 12 16:29	28° ♁ 49'35	1°48'08	direct	11409 Oct 31 17:17	7° ♁ 42'48	
minimum elong	11403 Dec 12 16:28	28° ♁ 49'35	1°48'50	evening set	11410 Feb 13 23:54	15° ♁ 34'05	
max. Earth dist.	11403 Dec 12 11:27	28° ♁ 48'01	10.37843 AU				
	11403 Dec 22 01:51	0° ♁		conjunction	11410 Mar 03 12:49	17° ♁ 44'58	0°50'09
morning rise	11403 Dec 30 10:32	1° ♁ 02'03		minimum elong	11410 Mar 03 12:50	17° ♁ 44'59	0°50'22
retrograde	11404 Apr 12 03:42	8° ♁ 50'07		max. Earth dist.	11410 Mar 03 02:27	17° ♁ 41'44	10.42902 AU
opposition	11404 Jun 18 19:36	5° ♁ 24'32	2°17'27	morning rise	11410 Mar 20 22:34	19° ♁ 54'56	
min. Earth dist.	11404 Jun 19 00:16	5° ♁ 23'36	8.37149 AU	retrograde	11410 Jun 30 08:09	27° ♁ 30'50	
direct	11404 Aug 25 19:07	1° ♁ 57'55		opposition	11410 Sep 05 22:40	24° ♁ 08'52	0°47'52
evening set	11404 Dec 07 20:40	9° ♁ 47'33		min. Earth dist.	11410 Sep 06 06:45	24° ♁ 07'17	8.44632 AU
				direct	11410 Nov 14 07:01	20° ♁ 42'39	
conjunction	11404 Dec 25 14:40	12° ♁ 00'13	1°52'03	evening set	11411 Feb 27 11:24	28° ♁ 31'29	
minimum elong	11404 Dec 25 14:40	12° ♁ 00'13	1°52'45		11411 Mar 11 09:39	0° ♁	
max. Earth dist.	11404 Dec 25 06:56	11° ♁ 57'47	10.36411 AU				
morning rise	11405 Jan 12 08:01	14° ♁ 12'42		conjunction	11411 Mar 16 22:08	0° ♁ 41'23	0°26'26
retrograde	11405 Apr 25 13:59	22° ♁ 00'00		minimum elong	11411 Mar 16 22:09	0° ♁ 41'23	0°26'30
opposition	11405 Jul 02 02:49	18° ♁ 34'53	2°18'42	max. Earth dist.	11411 Mar 16 12:26	0° ♁ 38'22	10.46457 AU
min. Earth dist.	11405 Jul 02 09:13	18° ♁ 33'35	8.36172 AU	morning rise	11411 Apr 03 05:46	2° ♁ 50'22	
direct	11405 Sep 08 07:53	15° ♁ 07'49		retrograde	11411 Jul 13 09:24	10° ♁ 23'28	
evening set	11405 Dec 21 19:28	22° ♁ 59'47		opposition	11411 Sep 19 06:15	7° ♁ 02'02	0°17'34
				min. Earth dist.	11411 Sep 19 13:15	7° ♁ 00'40	8.48392 AU
conjunction	11406 Jan 08 13:08	25° ♁ 12'31	1°50'05	direct	11411 Nov 27 20:32	3° ♁ 36'25	
minimum elong	11406 Jan 08 13:09	25° ♁ 12'31	1°50'45	evening set	11412 Mar 11 18:50	11° ♁ 22'13	
max. Earth dist.	11406 Jan 08 03:50	25° ♁ 09'36	10.35896 AU				
morning rise	11406 Jan 26 05:26	27° ♁ 24'51		conjunction	11412 Mar 29 03:11	13° ♁ 31'00	0°01'35
	11406 Feb 17 02:45	0° ♁		minimum elong	11412 Mar 29 03:10	13° ♁ 30'59	0°01'29
retrograde	11406 May 09 00:50	5° ♁ 10'45		behind sun begin	11412 Mar 28 20:02	13° ♁ 28'47	
opposition	11406 Jul 15 11:03	1° ♁ 46'10	2°12'39	behind sun end	11412 Mar 29 10:19	13° ♁ 33'11	
min. Earth dist.	11406 Jul 15 18:07	1° ♁ 44'45	8.36122 AU	max. Earth dist.	11412 Mar 28 19:06	13° ♁ 28'30	10.50395 AU
	11406 Aug 07 16:04	30° ♁		morning rise	11412 Apr 15 08:25	15° ♁ 38'51	
direct	11406 Sep 21 21:23	28° ♁ 18'54		desc. node	11412 Apr 21 19:16	16° ♁ 25'37	
	11406 Nov 05 10:04	0° ♁		retrograde	11412 Jul 25 09:39	23° ♁ 09'28	
evening set	11407 Jan 04 17:32	6° ♁ 12'10		opposition	11412 Oct 01 12:50	19° ♁ 48'25	-0°13'19
				min. Earth dist.	11412 Oct 01 18:05	19° ♁ 47'24	8.52427 AU
conjunction	11407 Jan 22 10:38	8° ♁ 24'47	1°42'19	direct	11412 Dec 10 07:51	16° ♁ 23'31	
minimum elong	11407 Jan 22 10:40	8° ♁ 24'48	1°42'55	evening set	11413 Mar 24 22:00	24° ♁ 05'49	
max. Earth dist.	11407 Jan 22 00:52	8° ♁ 21'43	10.36336 AU				
morning rise	11407 Feb 09 01:37	10° ♁ 36'48		conjunction	11413 Apr 11 03:41	26° ♁ 13'22	-0°23'14
	11407 Mar 20 03:19	15° ♁		minimum elong	11413 Apr 11 03:40	26° ♁ 13'22	0°23'29
retrograde	11407 May 22 11:53	18° ♁ 20'43		max. Earth dist.	11413 Apr 10 21:57	26° ♁ 11'35	10.54470 AU
opposition	11407 Jul 28 19:53	14° ♁ 56'46	1°59'37	morning rise	11413 Apr 28 06:21	28° ♁ 20'03	
	11407 Jul 28 03:41	15° ♁			11413 May 12 07:10	0° ♁	
min. Earth dist.	11407 Jul 29 03:16	14° ♁ 55'18	8.37009 AU	retrograde	11413 Aug 07 09:04	5° ♁ 48'35	
direct	11407 Oct 05 11:16	11° ♁ 29'29		opposition	11413 Oct 14 18:09	2° ♁ 27'48	-0°43'16
	11407 Dec 10 12:57	15° ♁		min. Earth dist.	11413 Oct 14 21:55	2° ♁ 27'05	8.56483 AU
evening set	11408 Jan 18 14:18	19° ♁ 23'05			11413 Nov 19 14:01	30° ♁	
				direct	11413 Dec 23 15:11	29° ♁ 03'37	
conjunction	11408 Feb 05 06:29	21° ♁ 35'21	1°29'11		11414 Jan 26 05:04	0° ♁	
minimum elong	11408 Feb 05 06:31	21° ♁ 35'22	1°29'42	evening set	11414 Apr 06 21:03	6° ♁ 42'17	
max. Earth dist.	11408 Feb 04 20:31	21° ♁ 32'13	10.37707 AU				
morning rise	11408 Feb 22 19:54	23° ♁ 46'52		conjunction	11414 Apr 23 23:59	8° ♁ 48'36	-0°46'39
	11408 Apr 23 21:30	0° ♁		minimum elong	11414 Apr 23 23:57	8° ♁ 48'36	0°47'03
retrograde	11408 Jun 03 20:10	1° ♁ 28'18		max. Earth dist.	11414 Apr 23 19:51	8° ♁ 47'19	10.58412 AU
	11408 Jul 15 13:16	30° ♁		morning rise	11414 May 11 00:15	10° ♁ 54'11	
opposition	11408 Aug 10 04:54	28° ♁ 05'03	1°40'21		11414 Jun 16 23:10	15° ♁	
min. Earth dist.	11408 Aug 10 12:41	28° ♁ 03'30	8.38788 AU	retrograde	11414 Aug 20 05:58	18° ♁ 21'07	
direct	11408 Oct 18 02:32	24° ♁ 37'58		opposition	11414 Oct 27 22:01	15° ♁ 00'31	-1°10'52
	11409 Jan 10 01:21	0° ♁		min. Earth dist.	11414 Oct 28 00:58	14° ♁ 59'57	8.60279 AU
evening set	11409 Jan 31 08:45	2° ♁ 30'53			11414 Oct 28 00:44	15° ♁	
				direct	11415 Jan 05 19:35	11° ♁ 37'03	
conjunction	11409 Feb 17 23:32	4° ♁ 42'34	1°11'28		11415 Mar 12 12:11	15° ♁	
minimum elong	11409 Feb 17 23:34	4° ♁ 42'35	1°11'51	evening set	11415 Apr 19 16:18	19° ♁ 12'15	
max. Earth dist.	11409 Feb 17 13:22	4° ♁ 39'23	10.39935 AU				
morning rise	11409 Mar 07 11:12	6° ♁ 53'23		conjunction	11415 May 06 16:32	21° ♁ 17'24	-1°07'41

minimum elong	11415 May 06 16:29	21° 8 17'24	1°08'12	minimum elong	11421 Jul 18 03:38	4° Ω 51'13	1°46'10
max. Earth dist.	11415 May 06 13:20	21° 8 16'25	10.61956 AU	max. Earth dist.	11421 Jul 18 12:02	4° Ω 53'47	10.70046 AU
morning rise	11415 May 23 14:48	23° 8 22'00		morning rise	11421 Aug 04 01:34	6° Ω 54'27	
	11415 Aug 02 11:14	0° Π		retrograde	11421 Nov 15 15:13	14° Ω 24'25	
retrograde	11415 Sep 02 00:42	0° Π 48'02		opposition	11422 Jan 24 18:18	11° Ω 01'32	-2°03'59
	11415 Oct 03 03:22	30° 8 8		min. Earth dist.	11422 Jan 24 10:22	11° Ω 03'03	8.69669 AU
opposition	11415 Nov 10 00:41	27° 8 27'31	-1°34'53	direct	11422 Apr 03 20:06	7° Ω 40'54	
min. Earth dist.	11415 Nov 10 02:35	27° 8 27'09	8.63589 AU	evening set	11422 Jul 13 15:44	15° Ω 00'24	
direct	11416 Jan 18 23:14	24° 8 04'44			11422 Jul 13 14:24	15° Ω	
	11416 Apr 17 15:27	0° Π					
evening set	11416 May 01 08:11	1° Π 36'43		conjunction	11422 Jul 30 13:34	17° Ω 03'38	-1°34'49
				minimum elong	11422 Jul 30 13:36	17° Ω 03'38	1°35'21
conjunction	11416 May 18 06:02	3° Π 40'51	-1°25'25	max. Earth dist.	11422 Jul 30 23:44	17° Ω 06'44	10.68888 AU
minimum elong	11416 May 18 06:00	3° Π 40'51	1°26'02	morning rise	11422 Aug 16 13:44	19° Ω 07'33	
max. Earth dist.	11416 May 18 04:18	3° Π 40'20	10.64954 AU	retrograde	11422 Nov 28 12:27	26° Ω 39'15	
morning rise	11416 Jun 04 02:39	5° Π 44'37		opposition	11423 Feb 06 14:31	23° Ω 15'46	-1°48'00
retrograde	11416 Sep 13 19:23	13° Π 10'21		min. Earth dist.	11423 Feb 06 05:21	23° Ω 17'32	8.68128 AU
opposition	11416 Nov 22 02:10	9° Π 49'45	-1°54'20	direct	11423 Apr 16 09:50	19° Ω 55'06	
min. Earth dist.	11416 Nov 22 02:10	9° Π 49'45	8.66322 AU	evening set	11423 Jul 26 01:19	27° Ω 14'27	
direct	11417 Jan 30 23:52	6° Π 27'37					
evening set	11417 May 13 21:09	13° Π 56'34		conjunction	11423 Aug 12 01:28	29° Ω 18'26	-1°19'45
				minimum elong	11423 Aug 12 01:31	29° Ω 18'27	1°20'10
conjunction	11417 May 30 17:16	15° Π 59'54	-1°39'07	max. Earth dist.	11423 Aug 12 12:44	29° Ω 21'53	10.67030 AU
minimum elong	11417 May 30 17:14	15° Π 59'54	1°39'47		11423 Aug 17 17:21	0° Π	
max. Earth dist.	11417 May 30 18:15	16° Π 00'13	10.67357 AU	morning rise	11423 Aug 29 04:20	1° Π 23'15	
morning rise	11417 Jun 16 12:40	18° Π 03'03		retrograde	11423 Dec 11 10:18	8° Π 56'55	
retrograde	11417 Sep 26 13:33	25° Π 28'57		opposition	11424 Feb 19 10:52	5° Π 32'51	-1°27'02
opposition	11417 Dec 05 02:31	22° Π 08'04	-2°08'26	min. Earth dist.	11424 Feb 19 01:14	5° Π 34'43	8.65919 AU
min. Earth dist.	11417 Dec 04 23:57	22° Π 08'33	8.68431 AU	direct	11424 Apr 28 00:06	2° Π 12'02	
direct	11418 Feb 12 21:59	18° Π 46'29		evening set	11424 Aug 06 13:09	9° Π 31'57	
evening set	11418 May 26 07:38	26° Π 12'40					
				conjunction	11424 Aug 23 15:55	11° Π 36'53	-1°00'57
conjunction	11418 Jun 12 02:43	28° Π 15'26	-1°48'13	minimum elong	11424 Aug 23 15:57	11° Π 36'54	1°01'14
minimum elong	11418 Jun 12 02:42	28° Π 15'25	1°48'56	max. Earth dist.	11424 Aug 24 02:46	11° Π 40'12	10.64552 AU
max. Earth dist.	11418 Jun 12 06:33	28° Π 16'36	10.69108 AU	morning rise	11424 Sep 09 21:52	13° Π 42'45	
	11418 Jun 26 09:11	0° Ω		retrograde	11424 Dec 23 10:16	21° Π 18'33	
morning rise	11418 Jun 28 21:34	0° Ω 18'11		opposition	11425 Mar 03 07:31	17° Π 53'58	-1°01'55
retrograde	11418 Oct 09 08:27	7° Ω 44'37		min. Earth dist.	11425 Mar 02 22:36	17° Π 55'41	8.63141 AU
opposition	11418 Dec 18 01:45	4° Ω 23'21	-2°16'37	direct	11425 May 10 15:00	14° Π 32'50	
min. Earth dist.	11418 Dec 17 21:16	4° Ω 24'12	8.69849 AU	evening set	11425 Aug 19 04:16	21° Π 54'05	
direct	11419 Feb 25 18:00	1° Ω 02'11					
evening set	11419 Jun 07 16:31	8° Ω 25'56		conjunction	11425 Sep 05 09:53	24° Π 00'06	-0°39'14
				minimum elong	11425 Sep 05 09:54	24° Π 00'07	0°39'22
conjunction	11419 Jun 24 11:05	10° Ω 28'24	-1°52'24	max. Earth dist.	11425 Sep 05 19:50	24° Π 03'09	10.61562 AU
minimum elong	11419 Jun 24 11:05	10° Ω 28'24	1°53'06	morning rise	11425 Sep 22 18:59	26° Π 07'07	
max. Earth dist.	11419 Jun 24 16:49	10° Ω 30'09	10.70151 AU		11425 Oct 27 19:15	0° Ω	
morning rise	11419 Jul 11 06:11	12° Ω 31'01		retrograde	11426 Jan 05 11:49	3° Ω 45'07	
retrograde	11419 Oct 22 02:49	19° Ω 58'18		opposition	11426 Mar 16 04:30	0° Ω 20'04	-0°33'45
opposition	11419 Dec 30 24:00	16° Ω 36'34	-2°18'35	min. Earth dist.	11426 Mar 15 20:31	0° Ω 21'38	8.59922 AU
min. Earth dist.	11419 Dec 30 18:22	16° Ω 37'39	8.70534 AU		11426 Mar 20 11:50	30° 8 17	
direct	11420 Mar 09 10:46	13° Ω 15'42		direct	11426 May 23 06:22	26° Π 58'32	
evening set	11420 Jun 19 00:20	20° Ω 37'29			11426 Jul 22 20:49	0° Ω	
				evening set	11426 Aug 31 23:11	4° Ω 21'54	
conjunction	11420 Jul 05 19:07	22° Ω 39'54	-1°51'29				
minimum elong	11420 Jul 05 19:08	22° Ω 39'54	1°52'10	conjunction	11426 Sep 18 07:43	6° Ω 29'03	-0°15'32
max. Earth dist.	11420 Jul 06 01:55	22° Ω 41'58	10.70467 AU	minimum elong	11426 Sep 18 07:44	6° Ω 29'03	0°15'32
morning rise	11420 Jul 22 15:20	24° Ω 42'42		behind sun begin	11426 Sep 18 05:58	6° Ω 28'31	
	11420 Sep 11 17:01	0° Ω		behind sun end	11426 Sep 18 09:29	6° Ω 29'35	
retrograde	11420 Nov 02 20:13	2° Ω 11'10		max. Earth dist.	11426 Sep 18 17:01	6° Ω 31'54	10.58194 AU
	11420 Dec 26 23:20	30° 8 8		morning rise	11426 Oct 05 19:38	8° Ω 37'12	
opposition	11421 Jan 11 21:32	28° Ω 48'53	-2°14'19	retrograde	11427 Jan 18 13:58	16° Ω 17'30	
min. Earth dist.	11421 Jan 11 14:57	28° Ω 50'08	8.70477 AU	opposition	11427 Mar 29 02:25	12° Ω 52'03	-0°03'46
direct	11421 Mar 22 03:29	25° Ω 28'11		min. Earth dist.	11427 Mar 28 19:03	12° Ω 53'30	8.56415 AU
	11421 Jun 06 15:11	0° Ω		asc. node	11427 May 14 01:43	9° Ω 55'18	
evening set	11421 Jul 01 07:41	2° Ω 48'32		direct	11427 Jun 05 01:17	9° Ω 30'02	
				evening set	11427 Sep 13 22:22	16° Ω 56'10	
conjunction	11421 Jul 18 03:36	4° Ω 51'12	-1°45'32				

conjunction	11427 Oct 01 09:38	19° Ω 04'28	0°09'09	conjunction	11433 Dec 20 05:33	6° Σ 50'35	1°50'56
minimum elong	11427 Oct 01 09:37	19° Ω 04'28	0°09'19	minimum elong	11433 Dec 20 05:33	6° Σ 50'35	1°51'39
behind sun begin	11427 Oct 01 03:35	19° Ω 02'38		max. Earth dist.	11433 Dec 20 00:17	6° Σ 48'56	10.38116 AU
behind sun end	11427 Oct 01 15:38	19° Ω 06'18		morning rise	11434 Jan 06 23:03	9° Σ 02'57	
max. Earth dist.	11427 Oct 01 18:34	19° Ω 07'12	10.54611 AU	retrograde	11434 Apr 20 10:27	16° Σ 50'24	
morning rise	11427 Oct 18 23:54	21° Ω 13'42		opposition	11434 Jun 27 00:04	13° Σ 25'34	2°18'46
retrograde	11428 Jan 31 19:52	28° Ω 56'16		min. Earth dist.	11434 Jun 27 04:49	13° Σ 24'37	8.37715 AU
opposition	11428 Apr 10 01:26	25° Ω 30'32	0°26'40	direct	11434 Sep 03 02:11	9° Σ 59'13	
min. Earth dist.	11428 Apr 09 18:36	25° Ω 31'52	8.52797 AU	evening set	11434 Dec 16 10:16	17° Σ 49'58	
direct	11428 Jun 16 21:04	22° Ω 07'58					
evening set	11428 Sep 26 02:26	29° Ω 37'26		conjunction	11435 Jan 03 04:08	20° Σ 02'35	1°51'23
	11428 Sep 29 04:45	0° \mathbb{L}		minimum elong	11435 Jan 03 04:09	20° Σ 02'35	1°52'05
				max. Earth dist.	11435 Jan 02 20:20	20° Σ 00'08	10.37212 AU
conjunction	11428 Oct 13 15:59	1° \mathbb{M} 46'49	0°33'29	morning rise	11435 Jan 20 20:41	22° Σ 14'52	
minimum elong	11428 Oct 13 15:57	1° \mathbb{M} 46'48	0°33'47		11435 Apr 29 05:45	0° \approx	
max. Earth dist.	11428 Oct 13 23:24	1° \mathbb{M} 49'06	10.50999 AU	retrograde	11435 May 03 22:37	0° \approx 01'13	
morning rise	11428 Oct 31 08:12	3° \mathbb{M} 57'02			11435 May 08 15:24	30° \mathbb{R} Σ	
retrograde	11429 Feb 13 04:57	11° \mathbb{M} 41'37		opposition	11435 Jul 10 08:04	26° Σ 36'52	2°15'42
opposition	11429 Apr 23 01:40	8° \mathbb{M} 15'45	0°56'03	min. Earth dist.	11435 Jul 10 14:55	26° Σ 35'30	8.37170 AU
min. Earth dist.	11429 Apr 22 20:23	8° \mathbb{M} 16'47	8.49256 AU	direct	11435 Sep 16 14:26	23° Σ 10'09	
direct	11429 Jun 29 17:21	4° \mathbb{M} 52'34			11435 Dec 21 18:04	0° \approx	
evening set	11429 Oct 09 11:20	12° \mathbb{M} 25'52		evening set	11435 Dec 30 09:02	1° \approx 02'44	
conjunction	11429 Oct 27 02:38	14° \mathbb{M} 36'11	0°56'21	conjunction	11436 Jan 17 02:20	3° \approx 15'19	1°45'58
minimum elong	11429 Oct 27 02:36	14° \mathbb{M} 36'10	0°56'48	minimum elong	11436 Jan 17 02:22	3° \approx 15'20	1°46'36
max. Earth dist.	11429 Oct 27 07:28	14° \mathbb{M} 37'41	10.47542 AU	max. Earth dist.	11436 Jan 16 16:03	3° \approx 12'05	10.37067 AU
	11429 Oct 30 07:27	15° \mathbb{M}		morning rise	11436 Feb 03 17:50	5° \approx 27'24	
morning rise	11429 Nov 13 20:16	16° \mathbb{M} 47'14		retrograde	11436 May 16 09:31	13° \approx 12'01	
retrograde	11430 Feb 26 13:48	24° \mathbb{M} 33'29		opposition	11436 Jul 22 16:53	9° \approx 48'13	2°05'29
opposition	11430 May 06 03:29	21° \mathbb{M} 07'38	1°22'53	min. Earth dist.	11436 Jul 23 01:25	9° \approx 46'31	8.37425 AU
min. Earth dist.	11430 May 06 00:26	21° \mathbb{M} 08'14	8.45967 AU	direct	11436 Sep 29 04:51	6° \approx 21'16	
direct	11430 Jul 12 18:48	17° \mathbb{M} 43'47		evening set	11437 Jan 12 06:47	14° \approx 14'42	
evening set	11430 Oct 23 00:32	25° \mathbb{M} 21'07			11437 Jan 18 09:15	15° \approx	
conjunction	11430 Nov 09 17:04	27° \mathbb{M} 32'13	1°16'33	conjunction	11437 Jan 29 23:12	16° \approx 27'03	1°34'58
minimum elong	11430 Nov 09 17:02	27° \mathbb{M} 32'12	1°17'07	minimum elong	11437 Jan 29 23:14	16° \approx 27'03	1°35'31
max. Earth dist.	11430 Nov 09 18:58	27° \mathbb{M} 32'49	10.44409 AU	max. Earth dist.	11437 Jan 29 11:24	16° \approx 23'21	10.37771 AU
morning rise	11430 Nov 27 11:30	29° \mathbb{M} 43'53		morning rise	11437 Feb 16 13:21	18° \approx 38'44	
	11430 Nov 29 16:35	0° \mathbb{J}		retrograde	11437 May 29 17:16	26° \approx 21'06	
retrograde	11431 Mar 11 23:30	7° \mathbb{J} 31'23		opposition	11437 Aug 05 02:00	22° \approx 57'51	1°48'41
opposition	11431 May 19 06:47	4° \mathbb{J} 05'39	1°45'44	min. Earth dist.	11437 Aug 05 11:10	22° \approx 56'01	8.38533 AU
min. Earth dist.	11431 May 19 06:06	4° \mathbb{J} 05'47	8.43087 AU	direct	11437 Oct 12 21:35	19° \approx 30'51	
direct	11431 Jul 25 23:16	0° \mathbb{J} 41'07		evening set	11438 Jan 26 02:18	27° \approx 24'03	
evening set	11431 Nov 05 17:34	8° \mathbb{J} 22'24					
conjunction	11431 Nov 23 11:01	10° \mathbb{J} 34'08	1°32'58	conjunction	11438 Feb 12 17:35	29° \approx 35'56	1°19'03
minimum elong	11431 Nov 23 10:59	10° \mathbb{J} 34'07	1°33'37	minimum elong	11438 Feb 12 17:37	29° \approx 35'57	1°19'29
max. Earth dist.	11431 Nov 23 10:24	10° \mathbb{J} 33'57	10.41749 AU	max. Earth dist.	11438 Feb 12 05:36	29° \approx 32'11	10.39333 AU
morning rise	11431 Dec 11 05:39	12° \mathbb{J} 46'14			11438 Feb 15 22:13	0° \mathbb{H}	
retrograde	11432 Mar 24 10:46	20° \mathbb{J} 34'20		morning rise	11438 Mar 02 06:08	1° \mathbb{H} 47'02	
opposition	11432 May 31 11:20	17° \mathbb{J} 08'48	2°03'17	retrograde	11438 Jun 12 00:38	9° \mathbb{H} 26'49	
min. Earth dist.	11432 May 31 12:29	17° \mathbb{J} 08'34	8.40730 AU	opposition	11438 Aug 18 11:07	6° \mathbb{H} 04'03	1°26'17
direct	11432 Aug 07 05:52	13° \mathbb{J} 43'35		min. Earth dist.	11438 Aug 18 19:53	6° \mathbb{H} 02'19	8.40470 AU
evening set	11432 Nov 18 13:32	21° \mathbb{J} 28'31		direct	11438 Oct 26 12:57	2° \mathbb{H} 37'11	
				evening set	11439 Feb 08 18:41	10° \mathbb{H} 29'06	
conjunction	11432 Dec 06 07:33	23° \mathbb{J} 40'42	1°44'40	conjunction	11439 Feb 26 08:31	12° \mathbb{H} 40'20	0°59'06
minimum elong	11432 Dec 06 07:32	23° \mathbb{J} 40'42	1°45'22	minimum elong	11439 Feb 26 08:33	12° \mathbb{H} 40'21	0°59'23
max. Earth dist.	11432 Dec 06 04:42	23° \mathbb{J} 39'49	10.39645 AU	max. Earth dist.	11439 Feb 25 21:31	12° \mathbb{H} 36'53	10.41681 AU
morning rise	11432 Dec 24 01:50	25° \mathbb{J} 53'01		morning rise	11439 Mar 15 19:11	14° \mathbb{H} 50'40	
	11433 Jan 29 13:38	0° Σ		retrograde	11439 Jun 25 06:42	22° \mathbb{H} 27'40	
retrograde	11433 Apr 06 22:44	3° Σ 41'05		opposition	11439 Aug 31 19:47	19° \mathbb{H} 05'20	0°59'35
opposition	11433 Jun 13 17:09	0° Σ 15'50	2°14'32	min. Earth dist.	11439 Sep 01 03:49	19° \mathbb{H} 03'45	8.43129 AU
min. Earth dist.	11433 Jun 13 20:00	0° Σ 15'15	8.38935 AU	direct	11439 Nov 09 02:52	15° \mathbb{H} 38'46	
	11433 Jun 17 00:18	30° \mathbb{R} \mathbb{J}		evening set	11440 Feb 22 07:42	23° \mathbb{H} 28'34	
direct	11433 Aug 20 15:12	26° \mathbb{J} 49'59					
	11433 Oct 21 15:45	0° Σ		conjunction	11440 Mar 10 19:36	25° \mathbb{H} 38'56	0°36'15
evening set	11433 Dec 02 11:26	4° Σ 38'06		minimum elong	11440 Mar 10 19:38	25° \mathbb{H} 38'56	0°36'22

max. Earth dist.	11440 Mar 10 09:45	25° K 35'51	10.44677 AU	min. Earth dist.	11445 Nov 16 23:07	4° II 56'52	8.65078 AU
morning rise	11440 Mar 28 04:05	27° K 48'20		direct	11446 Jan 25 22:30	1° II 33'59	
	11440 Apr 15 16:52	0° Y		evening set	11446 May 09 00:15	9° II 03'44	
retrograde	11440 Jul 07 09:53	5° Y 22'31					
opposition	11440 Sep 13 03:36	2° Y 00'36	0°30'02	conjunction	11446 May 25 21:06	11° II 07'19	-1°33'58
min. Earth dist.	11440 Sep 13 11:11	1° Y 59'07	8.46370 AU	minimum elong	11446 May 25 21:04	11° II 07'19	1°34'36
	11440 Oct 10 14:25	30° K		max. Earth dist.	11446 May 25 22:51	11° II 07'52	10.66531 AU
direct	11440 Nov 21 15:45	28° K 34'26		morning rise	11446 Jun 11 16:52	13° II 10'37	
	11441 Jan 02 02:00	0° Y		retrograde	11446 Sep 21 13:25	20° II 35'47	
evening set	11441 Mar 06 16:41	6° Y 21'29		opposition	11446 Nov 30 00:08	17° II 14'48	-2°03'14
				min. Earth dist.	11446 Nov 29 21:50	17° II 15'15	8.68022 AU
conjunction	11441 Mar 24 02:11	8° Y 30'47	0°11'45	direct	11447 Feb 07 20:13	13° II 52'50	
minimum elong	11441 Mar 24 02:11	8° Y 30'47	0°11'42	evening set	11447 May 21 11:05	21° II 19'32	
behind sun begin	11441 Mar 23 21:07	8° Y 29'13					
behind sun end	11441 Mar 24 07:14	8° Y 32'21		conjunction	11447 Jun 07 06:21	23° II 22'21	-1°44'59
max. Earth dist.	11441 Mar 23 17:15	8° Y 28'01	10.48163 AU	minimum elong	11447 Jun 07 06:20	23° II 22'21	1°45'40
morning rise	11441 Apr 10 08:21	10° Y 39'09		max. Earth dist.	11447 Jun 07 09:33	23° II 23'20	10.69151 AU
retrograde	11441 Jul 20 10:28	18° Y 10'43		morning rise	11447 Jun 24 01:25	25° II 25'06	
desc. node	11441 Sep 17 02:41	15° Y 32'24			11447 Aug 05 17:01	0° G	
opposition	11441 Sep 26 10:31	14° Y 49'10	-0°00'46	retrograde	11447 Oct 04 05:51	2° G 50'25	
min. Earth dist.	11441 Sep 26 17:24	14° Y 47'49	8.50032 AU		11447 Dec 06 04:34	30° K II	
direct	11441 Dec 05 03:26	11° Y 23'32		opposition	11447 Dec 12 23:00	29° II 29'19	-2°13'51
evening set	11442 Mar 19 21:15	19° Y 07'19		min. Earth dist.	11447 Dec 12 19:01	29° II 30'04	8.70338 AU
				direct	11448 Feb 20 17:08	26° II 07'59	
conjunction	11442 Apr 06 04:03	21° Y 15'26	-0°13'15		11448 May 01 03:18	0° G	
minimum elong	11442 Apr 06 04:02	21° Y 15'25	0°13'27	evening set	11448 Jun 01 19:40	3° G 31'56	
behind sun begin	11442 Apr 05 24:00	21° Y 14'11					
behind sun end	11442 Apr 06 08:04	21° Y 16'40		conjunction	11448 Jun 18 14:10	5° G 34'16	-1°51'12
max. Earth dist.	11442 Apr 05 20:16	21° Y 13'01	10.51965 AU	minimum elong	11448 Jun 18 14:10	5° G 34'16	1°51'55
morning rise	11442 Apr 23 07:55	23° Y 22'41		max. Earth dist.	11448 Jun 18 19:46	5° G 35'59	10.71099 AU
	11442 Jul 01 20:44	0° B		morning rise	11448 Jul 05 09:06	7° G 36'42	
retrograde	11442 Aug 02 09:02	0° B 52'01		retrograde	11448 Oct 15 23:39	15° G 02'37	
	11442 Sep 03 10:00	30° K Y		opposition	11448 Dec 24 20:49	11° G 41'15	-2°18'23
opposition	11442 Oct 09 16:05	27° Y 30'43	-0°31'15	min. Earth dist.	11448 Dec 24 14:39	11° G 42'26	8.71930 AU
min. Earth dist.	11442 Oct 09 21:40	27° Y 29'38	8.53930 AU	direct	11449 Mar 04 11:01	8° G 20'30	
direct	11442 Dec 18 12:21	24° Y 05'43		evening set	11449 Jun 14 02:56	15° G 42'06	
	11443 Mar 17 23:00	0° B					
evening set	11443 Apr 01 21:43	1° B 46'00		conjunction	11449 Jun 30 21:32	17° G 44'14	-1°52'24
				minimum elong	11449 Jun 30 21:32	17° G 44'14	1°53'06
conjunction	11443 Apr 19 01:45	3° B 52'53	-0°37'18	max. Earth dist.	11449 Jul 01 05:46	17° G 46'45	10.72302 AU
minimum elong	11443 Apr 19 01:44	3° B 52'52	0°37'39	morning rise	11449 Jul 17 17:01	19° G 46'39	
max. Earth dist.	11443 Apr 18 19:48	3° B 51'02	10.55893 AU	retrograde	11449 Oct 28 17:11	27° G 13'29	
morning rise	11443 May 06 03:16	5° B 59'01		opposition	11450 Jan 06 17:37	23° G 51'47	-2°16'41
retrograde	11443 Aug 15 05:07	13° B 26'32		min. Earth dist.	11450 Jan 06 09:30	23° G 53'19	8.72741 AU
opposition	11443 Oct 22 20:01	10° B 05'25	-0°59'57	direct	11450 Mar 17 02:53	20° G 31'27	
min. Earth dist.	11443 Oct 22 23:20	10° B 04'47	8.57864 AU	evening set	11450 Jun 26 09:39	27° G 51'14	
direct	11443 Dec 31 18:59	6° B 41'10					
evening set	11444 Apr 13 18:08	14° B 17'52		conjunction	11450 Jul 13 05:01	29° G 53'28	-1°48'33
	11444 Apr 19 12:36	15° B		minimum elong	11450 Jul 13 05:02	29° G 53'28	1°49'13
				max. Earth dist.	11450 Jul 13 14:55	29° G 56'29	10.72712 AU
conjunction	11444 Apr 30 19:33	16° B 23'32	-0°59'25		11450 Jul 14 02:26	0° Q	
minimum elong	11444 Apr 30 19:31	16° B 23'31	0°59'53	morning rise	11450 Jul 30 01:52	1° Q 56'09	
max. Earth dist.	11444 Apr 30 16:31	16° B 22'35	10.59751 AU	retrograde	11450 Nov 10 11:58	9° Q 24'11	
morning rise	11444 May 17 18:43	18° B 28'34		opposition	11451 Jan 19 13:47	6° Q 02'06	-2°08'53
retrograde	11444 Aug 27 00:53	25° B 54'50		min. Earth dist.	11451 Jan 19 04:55	6° Q 03'47	8.72731 AU
opposition	11444 Nov 03 22:46	22° B 33'50	-1°25'32	direct	11451 Mar 29 17:27	2° Q 42'03	
min. Earth dist.	11444 Nov 03 23:39	22° B 33'40	8.61639 AU	evening set	11451 Jul 08 16:38	10° Q 00'35	
direct	11445 Jan 12 23:11	19° B 10'23					
evening set	11445 Apr 26 10:44	26° B 43'30		conjunction	11451 Jul 25 13:19	12° Q 03'10	-1°39'51
				minimum elong	11451 Jul 25 13:21	12° Q 03'11	1°40'26
conjunction	11445 May 13 09:43	28° B 48'03	-1°18'34	max. Earth dist.	11451 Jul 25 23:36	12° Q 06'18	10.72307 AU
minimum elong	11445 May 13 09:41	28° B 48'02	1°19'08	morning rise	11451 Aug 11 12:17	14° Q 06'24	
max. Earth dist.	11445 May 13 09:31	28° B 47'59	10.63351 AU		11451 Aug 19 02:05	15° Q	
	11445 May 23 03:31	0° II		retrograde	11451 Nov 23 07:29	21° Q 35'54	
morning rise	11445 May 30 06:52	0° II 52'07		opposition	11452 Feb 01 09:32	18° Q 13'23	-1°55'18
retrograde	11445 Sep 08 20:35	8° II 17'36		min. Earth dist.	11452 Feb 01 00:36	18° Q 15'05	8.71897 AU
opposition	11445 Nov 17 00:10	4° II 56'40	-1°46'55		11452 Mar 30 00:13	15° R Q	

direct	11452 Apr 10 06:37	14° Ω 53'25	opposition	11458 Apr 17 13:35	2° \mathbb{M} 45'09	0°43'04
	11452 Apr 21 13:16	15° Ω	min. Earth dist.	11458 Apr 17 09:40	2° \mathbb{M} 45'55	8.52393 AU
evening set	11452 Jul 20 00:39	22° Ω 11'23		11458 May 28 12:03	30° \mathbb{R} $\underline{\Omega}$	
			direct	11458 Jun 24 07:39	29° $\underline{\Omega}$ 22'25	
conjunction	11452 Aug 05 23:23	24° Ω 14'35 -1°26'38		11458 Jul 20 22:23	0° \mathbb{M}	
minimum elong	11452 Aug 05 23:26	24° Ω 14'35 1°27'07	evening set	11458 Oct 03 18:44	6° \mathbb{M} 53'03	
max. Earth dist.	11452 Aug 06 09:50	24° Ω 17'46 10.71089 AU				
morning rise	11452 Aug 23 00:58	26° Ω 18'34	conjunction	11458 Oct 21 09:10	9° \mathbb{M} 02'43	0°46'18
	11452 Sep 25 09:27	0° \mathbb{M}	minimum elong	11458 Oct 21 09:08	9° \mathbb{M} 02'42	0°46'42
retrograde	11452 Dec 05 02:19	3° \mathbb{M} 49'48	max. Earth dist.	11458 Oct 21 13:17	9° \mathbb{M} 03'59	10.50327 AU
opposition	11453 Feb 13 05:00	0° \mathbb{M} 26'45 -1°36'28	morning rise	11458 Nov 08 02:08	11° \mathbb{M} 13'12	
min. Earth dist.	11453 Feb 12 20:06	0° \mathbb{M} 28'27 8.70241 AU		11458 Dec 11 16:39	15° \mathbb{M}	
	11453 Feb 19 01:16	30° \mathbb{R} Ω	retrograde	11459 Feb 20 18:54	18° \mathbb{M} 57'55	
direct	11453 Apr 22 21:20	27° Ω 06'42	opposition	11459 Apr 30 13:55	15° \mathbb{M} 32'06	1°11'10
	11453 Jun 21 09:22	0° \mathbb{M}	min. Earth dist.	11459 Apr 30 11:08	15° \mathbb{M} 32'39	8.48347 AU
evening set	11453 Aug 01 10:29	4° \mathbb{M} 24'49		11459 May 07 08:41	15° \mathbb{R} \mathbb{M}	
			direct	11459 Jul 07 07:37	12° \mathbb{M} 08'32	
conjunction	11453 Aug 18 11:53	6° \mathbb{M} 28'52 -1°09'26		11459 Sep 03 19:48	15° \mathbb{M}	
minimum elong	11453 Aug 18 11:55	6° \mathbb{M} 28'52 1°09'47	evening set	11459 Oct 17 04:59	19° \mathbb{M} 43'16	
max. Earth dist.	11453 Aug 18 22:45	6° \mathbb{M} 32'11 10.69044 AU				
morning rise	11453 Sep 04 16:18	8° \mathbb{M} 33'48	conjunction	11459 Nov 03 21:05	21° \mathbb{M} 53'54	1°07'48
retrograde	11453 Dec 18 00:26	16° \mathbb{M} 07'02	minimum elong	11459 Nov 03 21:02	21° \mathbb{M} 53'53	1°08'19
opposition	11454 Feb 26 00:25	12° \mathbb{M} 43'25 -1°13'11	max. Earth dist.	11459 Nov 03 23:35	21° \mathbb{M} 54'41	10.46392 AU
min. Earth dist.	11454 Feb 25 15:24	12° \mathbb{M} 45'09 8.67747 AU	morning rise	11459 Nov 21 15:02	24° \mathbb{M} 05'09	
direct	11454 May 05 11:48	9° \mathbb{M} 23'08		11460 Jan 18 01:26	0° \mathbb{X}	
evening set	11454 Aug 13 23:11	16° \mathbb{M} 42'13	retrograde	11460 Mar 05 04:47	1° \mathbb{X} 51'37	
				11460 Apr 22 02:53	30° \mathbb{R} \mathbb{M}	
conjunction	11454 Aug 31 03:26	18° \mathbb{M} 47'18 -0°49'00	opposition	11460 May 12 15:47	28° \mathbb{M} 25'38	1°35'57
minimum elong	11454 Aug 31 03:28	18° \mathbb{M} 47'19 0°49'11	min. Earth dist.	11460 May 12 14:25	28° \mathbb{M} 25'55	8.44623 AU
max. Earth dist.	11454 Aug 31 14:07	18° \mathbb{M} 50'34 10.66171 AU	direct	11460 Jul 19 08:38	25° \mathbb{M} 01'13	
morning rise	11454 Sep 17 10:47	20° \mathbb{M} 53'21		11460 Oct 06 22:08	0° \mathbb{X}	
retrograde	11454 Dec 31 01:20	28° \mathbb{M} 28'50	evening set	11460 Oct 29 19:39	2° \mathbb{X} 40'12	
opposition	11455 Mar 10 20:13	25° \mathbb{M} 04'41 -0°46'21				
min. Earth dist.	11455 Mar 10 11:39	25° \mathbb{M} 06'20 8.64484 AU	conjunction	11460 Nov 16 12:51	4° \mathbb{X} 51'37	1°26'03
direct	11455 May 18 01:13	21° \mathbb{M} 44'02	minimum elong	11460 Nov 16 12:48	4° \mathbb{X} 51'36	1°26'39
evening set	11455 Aug 26 15:29	29° \mathbb{M} 04'57	max. Earth dist.	11460 Nov 16 12:52	4° \mathbb{X} 51'37	10.42863 AU
	11455 Sep 03 05:38	0° $\underline{\Omega}$	morning rise	11460 Dec 04 07:16	7° \mathbb{X} 03'28	
			retrograde	11461 Mar 18 16:09	14° \mathbb{X} 51'06	
conjunction	11455 Sep 12 22:34	1° $\underline{\Omega}$ 11'12 -0°26'09	opposition	11461 May 25 19:05	11° \mathbb{X} 25'08	1°56'03
minimum elong	11455 Sep 12 22:35	1° $\underline{\Omega}$ 11'12 0°26'11	min. Earth dist.	11461 May 25 19:55	11° \mathbb{X} 24'58	8.41394 AU
max. Earth dist.	11455 Sep 13 07:55	1° $\underline{\Omega}$ 14'03 10.62627 AU	direct	11461 Aug 01 12:17	7° \mathbb{X} 59'52	
morning rise	11455 Sep 30 08:53	3° $\underline{\Omega}$ 18'25	evening set	11461 Nov 12 13:53	15° \mathbb{X} 42'59	
retrograde	11456 Jan 13 02:54	10° $\underline{\Omega}$ 56'20				
opposition	11456 Mar 22 16:57	7° $\underline{\Omega}$ 31'40 -0°17'09	conjunction	11461 Nov 30 07:38	17° \mathbb{X} 55'00	1°39'59
min. Earth dist.	11456 Mar 22 09:40	7° $\underline{\Omega}$ 33'06 8.60678 AU	minimum elong	11461 Nov 30 07:36	17° \mathbb{X} 55'00	1°40'40
direct	11456 May 29 17:14	4° $\underline{\Omega}$ 10'27	max. Earth dist.	11461 Nov 30 04:27	17° \mathbb{X} 54'01	10.39912 AU
evening set	11456 Sep 07 11:53	11° $\underline{\Omega}$ 33'59	morning rise	11461 Dec 18 02:05	20° \mathbb{X} 07'17	
			retrograde	11462 Apr 01 03:18	27° \mathbb{X} 55'27	
conjunction	11456 Sep 24 21:39	13° $\underline{\Omega}$ 41'25 -0°01'55	opposition	11462 Jun 08 00:04	24° \mathbb{X} 29'38	2°10'17
minimum elong	11456 Sep 24 21:40	13° $\underline{\Omega}$ 41'25 0°01'49	min. Earth dist.	11462 Jun 08 03:19	24° \mathbb{X} 28'59	8.38817 AU
behind sun begin	11456 Sep 24 14:29	13° $\underline{\Omega}$ 39'14	direct	11462 Aug 14 20:07	21° \mathbb{X} 03'37	
behind sun end	11456 Sep 25 04:52	13° $\underline{\Omega}$ 43'36	evening set	11462 Nov 26 10:28	28° \mathbb{X} 50'27	
max. Earth dist.	11456 Sep 25 04:59	13° $\underline{\Omega}$ 43'38 10.58656 AU		11462 Dec 05 19:21	0° \mathbb{Z}	
morning rise	11456 Oct 12 10:49	15° $\underline{\Omega}$ 49'50				
asc. node	11456 Oct 24 03:22	17° $\underline{\Omega}$ 12'33	conjunction	11462 Dec 14 04:27	1° \mathbb{Z} 02'53	1°48'48
retrograde	11457 Jan 25 06:41	23° $\underline{\Omega}$ 30'11	minimum elong	11462 Dec 14 04:26	1° \mathbb{Z} 02'53	1°49'30
opposition	11457 Apr 04 14:45	20° $\underline{\Omega}$ 05'03 0°13'08	max. Earth dist.	11462 Dec 13 22:38	1° \mathbb{Z} 01'04	10.37689 AU
min. Earth dist.	11457 Apr 04 09:20	20° $\underline{\Omega}$ 06'07 8.56573 AU	morning rise	11462 Dec 31 22:29	3° \mathbb{Z} 15'21	
direct	11457 Jun 11 11:17	16° $\underline{\Omega}$ 43'06	retrograde	11463 Apr 14 13:33	11° \mathbb{Z} 03'26	
evening set	11457 Sep 20 13:00	24° $\underline{\Omega}$ 09'56	opposition	11463 Jun 21 06:23	7° \mathbb{Z} 37'55	2°17'48
			min. Earth dist.	11463 Jun 21 11:25	7° \mathbb{Z} 36'55	8.37022 AU
conjunction	11457 Oct 08 01:16	26° $\underline{\Omega}$ 18'31 0°22'41	direct	11463 Aug 28 07:12	4° \mathbb{Z} 11'16	
minimum elong	11457 Oct 08 01:15	26° $\underline{\Omega}$ 18'31 0°22'56	evening set	11463 Dec 10 08:43	12° \mathbb{Z} 01'09	
max. Earth dist.	11457 Oct 08 06:44	26° $\underline{\Omega}$ 20'12 10.54483 AU				
morning rise	11457 Oct 25 16:39	28° $\underline{\Omega}$ 28'03	conjunction	11463 Dec 28 02:43	14° \mathbb{Z} 13'50	1°51'56
	11457 Nov 07 16:14	0° \mathbb{M}	minimum elong	11463 Dec 28 02:43	14° \mathbb{Z} 13'50	1°52'39
retrograde	11458 Feb 07 12:07	6° \mathbb{M} 10'41	max. Earth dist.	11463 Dec 27 19:01	14° \mathbb{Z} 11'25	10.36310 AU










































































































































morning rise	11464 Jan 14 19:59	16° S 26'19		max. Earth dist.	11470 Mar 17 23:34	2° Y 49'33	10.46686 AU
retrograde	11464 Apr 27 01:17	24° S 13'34		morning rise	11470 Apr 04 16:06	5° Y 01'17	
opposition	11464 Jul 03 13:39	20° S 48'27	2°18'06	retrograde	11470 Jul 14 19:24	12° Y 34'12	
min. Earth dist.	11464 Jul 03 19:46	20° S 47'14	8.36098 AU	opposition	11470 Sep 20 16:56	9° Y 12'44	0°13'27
direct	11464 Sep 09 18:57	17° S 21'22		min. Earth dist.	11470 Sep 20 23:08	9° Y 11'31	8.48643 AU
evening set	11464 Dec 23 07:29	25° S 13'27		direct	11470 Nov 29 08:13	5° Y 47'10	
				desc. node	11471 Mar 04 02:30	12° Y 19'54	
conjunction	11465 Jan 10 01:12	27° S 26'12	1°49'12	evening set	11471 Mar 14 05:05	13° Y 32'37	
minimum elong	11465 Jan 10 01:14	27° S 26'12	1°49'53				
max. Earth dist.	11465 Jan 09 16:31	27° S 23'28	10.35850 AU	conjunction	11471 Mar 31 13:17	15° Y 41'19	-0°01'50
morning rise	11465 Jan 27 17:20	29° S 38'31		minimum elong	11471 Mar 31 13:17	15° Y 41'18	0°01'59
	11465 Jan 30 15:33	0° \approx		behind sun begin	11471 Mar 31 06:09	15° Y 39'07	
retrograde	11465 May 10 12:33	7° \approx 24'15		behind sun end	11471 Mar 31 20:26	15° Y 43'30	
opposition	11465 Jul 16 21:56	3° \approx 59'40	2°11'07	max. Earth dist.	11471 Mar 31 06:15	15° Y 39'08	10.50677 AU
min. Earth dist.	11465 Jul 17 04:38	3° \approx 58'20	8.36099 AU	morning rise	11471 Apr 17 18:15	17° Y 49'04	
direct	11465 Sep 23 08:23	0° \approx 32'21		retrograde	11471 Jul 27 20:56	25° Y 19'31	
evening set	11466 Jan 06 05:31	8° \approx 25'40		opposition	11471 Oct 03 23:27	21° Y 58'28	-0°17'22
				min. Earth dist.	11471 Oct 04 04:13	21° Y 57'33	8.52740 AU
conjunction	11466 Jan 23 22:35	10° \approx 38'15	1°40'43	direct	11471 Dec 12 17:23	18° Y 33'38	
minimum elong	11466 Jan 23 22:37	10° \approx 38'15	1°41'19	evening set	11472 Mar 26 08:03	26° Y 15'36	
max. Earth dist.	11466 Jan 23 13:11	10° \approx 35'18	10.36339 AU				
morning rise	11466 Feb 10 13:20	12° \approx 50'13		conjunction	11472 Apr 12 13:30	28° Y 23'03	-0°26'25
	11466 Feb 28 16:49	15° \approx		minimum elong	11472 Apr 12 13:29	28° Y 23'03	0°26'43
retrograde	11466 May 23 22:25	20° \approx 33'55		max. Earth dist.	11472 Apr 12 08:16	28° Y 21'26	10.54823 AU
opposition	11466 Jul 30 06:51	17° \approx 09'58	1°57'14		11472 Apr 25 14:52	0° S	
min. Earth dist.	11466 Jul 30 14:22	17° \approx 08'28	8.37037 AU	morning rise	11472 Apr 29 15:56	0° S 29'39	
	11466 Aug 28 16:02	15° R \approx		retrograde	11472 Aug 08 18:47	7° S 57'59	
direct	11466 Oct 06 23:05	13° \approx 42'38		opposition	11472 Oct 16 04:38	4° S 37'15	-0°47'03
	11466 Nov 14 20:28	15° \approx		min. Earth dist.	11472 Oct 16 08:30	4° S 36'30	8.56889 AU
evening set	11467 Jan 20 02:01	21° \approx 36'09		direct	11472 Dec 25 01:10	1° S 13'08	
				evening set	11473 Apr 08 06:50	8° S 51'28	
conjunction	11467 Feb 06 18:02	23° \approx 48'22	1°26'57				
minimum elong	11467 Feb 06 18:05	23° \approx 48'23	1°27'27	conjunction	11473 Apr 25 09:24	10° S 57'38	-0°49'33
max. Earth dist.	11467 Feb 06 07:49	23° \approx 45'10	10.37768 AU	minimum elong	11473 Apr 25 09:22	10° S 57'38	0°49'59
morning rise	11467 Feb 24 07:19	25° \approx 59'49		max. Earth dist.	11473 Apr 25 05:11	10° S 56'20	10.58881 AU
	11467 Mar 31 12:56	0° H		morning rise	11473 May 12 09:33	13° S 03'06	
retrograde	11467 Jun 06 07:10	3° H 41'01			11473 May 28 23:09	15° S	
opposition	11467 Aug 12 15:54	0° H 17'45	1°37'15	retrograde	11473 Aug 21 14:47	20° S 29'50	
min. Earth dist.	11467 Aug 13 00:13	0° H 16'06	8.38879 AU	opposition	11473 Oct 29 08:25	17° S 09'17	-1°14'12
	11467 Aug 16 09:16	30° R \approx		min. Earth dist.	11473 Oct 29 11:16	17° S 08'44	8.60826 AU
direct	11467 Oct 20 13:29	26° \approx 50'36			11473 Nov 28 20:52	15° R S	
	11467 Dec 22 03:25	0° H		direct	11474 Jan 07 06:52	13° S 45'54	
evening set	11468 Feb 02 20:06	4° H 43'21			11474 Feb 14 22:43	15° S	
				evening set	11474 Apr 21 01:32	21° S 20'37	
conjunction	11468 Feb 20 10:40	6° H 54'59	1°08'43				
minimum elong	11468 Feb 20 10:43	6° H 55'00	1°09'05	conjunction	11474 May 08 01:28	23° S 25'37	-1°10'09
max. Earth dist.	11468 Feb 19 23:48	6° H 51'35	10.40058 AU	minimum elong	11474 May 08 01:25	23° S 25'36	1°10'42
morning rise	11468 Mar 08 22:18	9° H 05'45		max. Earth dist.	11474 May 07 22:31	23° S 24'43	10.62573 AU
retrograde	11468 Jun 18 13:36	16° H 44'11		morning rise	11474 May 24 23:37	25° S 30'05	
opposition	11468 Aug 25 00:54	13° H 21'35	1°12'20		11474 Jul 05 09:29	0° II	
min. Earth dist.	11468 Aug 25 09:30	13° H 19'53	8.41523 AU	retrograde	11474 Sep 03 09:53	2° II 55'50	
direct	11468 Nov 02 04:35	9° H 54'49			11474 Nov 06 01:01	30° R S	
evening set	11469 Feb 15 10:58	17° H 45'52		opposition	11474 Nov 11 10:42	29° S 35'20	-1°37'37
				min. Earth dist.	11474 Nov 11 11:56	29° S 35'06	8.64268 AU
conjunction	11469 Mar 04 23:41	19° H 56'41	0°47'03	direct	11475 Jan 20 09:14	26° S 12'40	
minimum elong	11469 Mar 04 23:42	19° H 56'42	0°47'15		11475 Mar 31 05:08	0° II	
max. Earth dist.	11469 Mar 04 13:01	19° H 53'21	10.43082 AU	evening set	11475 May 03 16:53	3° II 44'05	
morning rise	11469 Mar 22 09:21	22° H 06'36					
retrograde	11469 Jul 01 17:08	29° H 42'13		conjunction	11475 May 20 14:37	5° II 48'04	-1°27'21
opposition	11469 Sep 07 09:22	26° H 20'14	0°43'53	minimum elong	11475 May 20 14:34	5° II 48'04	1°27'58
min. Earth dist.	11469 Sep 07 17:04	26° H 18'43	8.44833 AU	max. Earth dist.	11475 May 20 13:48	5° II 47'49	10.65668 AU
direct	11469 Nov 15 19:26	22° H 54'00		morning rise	11475 Jun 06 11:02	7° II 51'42	
	11470 Feb 23 01:29	0° Y		retrograde	11475 Sep 16 03:51	15° II 17'08	
evening set	11470 Feb 28 22:04	0° Y 42'34		opposition	11475 Nov 24 11:37	11° II 56'33	-1°56'20
				min. Earth dist.	11475 Nov 24 10:39	11° II 56'44	8.67057 AU
conjunction	11470 Mar 18 08:40	2° Y 52'23	0°23'08	direct	11476 Feb 02 09:39	8° II 34'34	
minimum elong	11470 Mar 18 08:41	2° Y 52'24	0°23'10	evening set	11476 May 15 05:23	16° II 02'58	

conjunction	11476 Jun 01 01:26	18° Π 06'10	-1°40'26	conjunction	11482 Aug 13 08:42	1° η 22'03	-1°17'24
minimum elong	11476 Jun 01 01:25	18° Π 06'10	1°41'07	minimum elong	11482 Aug 13 08:44	1° η 22'04	1°17'48
max. Earth dist.	11476 Jun 01 03:23	18° Π 06'46	10.68089 AU	max. Earth dist.	11482 Aug 13 19:07	1° η 25'14	10.67123 AU
morning rise	11476 Jun 17 20:39	20° Π 09'10		morning rise	11482 Aug 30 11:55	3° η 26'55	
retrograde	11476 Sep 27 22:48	27° Π 34'49		retrograde	11482 Dec 12 18:28	11° η 00'32	
opposition	11476 Dec 06 11:39	24° Π 14'01	-2°09'38	opposition	11483 Feb 20 18:24	7° η 36'29	-1°23'53
min. Earth dist.	11476 Dec 06 08:43	24° Π 14'34	8.69151 AU	min. Earth dist.	11483 Feb 20 09:40	7° η 38'10	8.65930 AU
direct	11477 Feb 14 07:07	20° Π 52'35		direct	11483 Apr 30 07:09	4° η 15'37	
evening set	11477 May 27 15:30	28° Π 18'14		evening set	11483 Aug 08 20:18	11° η 35'30	
	11477 Jun 10 14:17	0° Θ					
conjunction	11477 Jun 13 10:26	0° Θ 20'53	-1°48'53	conjunction	11483 Aug 25 23:16	13° η 40'30	-0°58'14
minimum elong	11477 Jun 13 10:25	0° Θ 20'53	1°49'36	minimum elong	11483 Aug 25 23:18	13° η 40'30	0°58'30
max. Earth dist.	11477 Jun 13 14:16	0° Θ 22'04	10.69803 AU	max. Earth dist.	11483 Aug 26 09:08	13° η 43'31	10.64491 AU
morning rise	11477 Jun 30 05:15	2° Θ 23'33		morning rise	11483 Sep 12 05:35	15° η 46'27	
retrograde	11477 Oct 10 17:37	9° Θ 49'44		retrograde	11483 Dec 25 17:52	23° η 22'15	
opposition	11477 Dec 19 10:38	6° Θ 28'34	-2°16'59	opposition	11484 Mar 04 14:58	19° η 57'38	-0°58'23
min. Earth dist.	11477 Dec 19 06:30	6° Θ 29'21	8.70514 AU	min. Earth dist.	11484 Mar 04 06:47	19° η 59'13	8.62998 AU
direct	11478 Feb 27 01:05	3° Θ 07'33		direct	11484 May 11 21:49	16° η 36'26	
evening set	11478 Jun 09 00:04	10° Θ 30'51		evening set	11484 Aug 20 11:32	23° η 57'47	
conjunction	11478 Jun 25 18:33	12° Θ 33'13	-1°52'22	conjunction	11484 Sep 06 17:27	26° η 03'52	-0°36'15
minimum elong	11478 Jun 25 18:33	12° Θ 33'13	1°53'05	minimum elong	11484 Sep 06 17:29	26° η 03'53	0°36'22
max. Earth dist.	11478 Jun 25 23:38	12° Θ 34'46	10.70778 AU	max. Earth dist.	11484 Sep 07 03:16	26° η 06'53	10.61347 AU
morning rise	11478 Jul 12 13:49	14° Θ 35'48		morning rise	11484 Sep 24 02:47	28° η 10'58	
retrograde	11478 Oct 23 09:39	22° Θ 02'52			11484 Oct 09 16:03	0° Ω	
opposition	11479 Jan 01 08:28	18° Θ 41'13	-2°18'08	retrograde	11485 Jan 06 18:13	5° Ω 49'05	
min. Earth dist.	11479 Jan 01 03:18	18° Θ 42'12	8.71112 AU	opposition	11485 Mar 17 11:57	2° Ω 23'57	-0°29'59
direct	11479 Mar 11 19:18	15° Θ 20'27		min. Earth dist.	11485 Mar 17 04:01	2° Ω 25'30	8.59630 AU
evening set	11479 Jun 21 07:35	22° Θ 41'53			11485 Apr 20 21:02	30° \mathcal{R} η	
conjunction	11479 Jul 08 02:29	24° Θ 44'15	-1°50'48	direct	11485 May 24 15:01	29° η 02'20	
minimum elong	11479 Jul 08 02:30	24° Θ 44'15	1°51'29		11485 Jun 26 19:42	0° Ω	
max. Earth dist.	11479 Jul 08 09:07	24° Θ 46'17	10.70991 AU	evening set	11485 Sep 02 06:43	6° Ω 25'52	
morning rise	11479 Jul 24 22:52	26° Θ 47'01		conjunction	11485 Sep 19 15:36	8° Ω 33'08	-0°12'26
	11479 Aug 22 12:45	0° Ω		minimum elong	11485 Sep 19 15:37	8° Ω 33'08	0°12'24
retrograde	11479 Nov 05 03:57	4° Ω 15'20		behind sun begin	11485 Sep 19 10:56	8° Ω 31'43	
opposition	11480 Jan 14 05:37	0° Ω 53'07	-2°13'04	behind sun end	11485 Sep 19 20:17	8° Ω 34'34	
min. Earth dist.	11480 Jan 13 22:56	0° Ω 54'23	8.70932 AU	max. Earth dist.	11485 Sep 20 01:12	8° Ω 36'04	10.57827 AU
	11480 Jan 26 00:11	30° \mathcal{R} Θ		morning rise	11485 Oct 07 03:39	10° Ω 41'22	
direct	11480 Mar 23 12:34	27° Θ 32'30		retrograde	11486 Jan 19 22:41	18° Ω 21'52	
	11480 May 17 08:35	0° Ω		asc. node	11486 Mar 29 08:22	15° Ω 01'19	
evening set	11480 Jul 02 14:43	4° Ω 52'31		opposition	11486 Mar 30 09:53	14° Ω 56'19	0°00'05
conjunction	11480 Jul 19 10:54	6° Ω 55'11	-1°44'14	min. Earth dist.	11486 Mar 30 02:20	14° Ω 57'48	8.55975 AU
minimum elong	11480 Jul 19 10:55	6° Ω 55'12	1°44'51	direct	11486 Jun 06 08:31	11° Ω 34'11	
max. Earth dist.	11480 Jul 19 19:53	6° Ω 57'56	10.70435 AU	evening set	11486 Sep 15 06:25	19° Ω 00'36	
morning rise	11480 Aug 05 08:57	8° Ω 58'25		conjunction	11486 Oct 02 17:52	21° Ω 09'01	0°12'14
	11480 Oct 05 12:09	15° Ω		minimum elong	11486 Oct 02 17:51	21° Ω 09'01	0°12'26
retrograde	11480 Nov 17 00:03	16° Ω 28'17		behind sun begin	11486 Oct 02 13:12	21° Ω 07'35	
	11480 Dec 30 10:57	15° \mathcal{R} Ω		behind sun end	11486 Oct 02 22:31	21° Ω 10'26	
opposition	11481 Jan 26 02:09	13° Ω 05'26	-2°02'00	max. Earth dist.	11486 Oct 03 02:27	21° Ω 11'39	10.54098 AU
min. Earth dist.	11481 Jan 25 17:45	13° Ω 07'02	8.69981 AU	morning rise	11486 Oct 20 08:16	23° Ω 18'21	
direct	11481 Apr 05 03:02	9° Ω 44'53			11486 Dec 29 09:11	0° \mathcal{M}	
	11481 Jun 27 01:43	15° Ω		retrograde	11487 Feb 02 05:23	1° \mathcal{M} 01'08	
evening set	11481 Jul 14 22:43	17° Ω 04'07			11487 Mar 09 07:04	30° \mathcal{R} Ω	
conjunction	11481 Jul 31 20:47	19° Ω 07'21	-1°32'57	opposition	11487 Apr 12 09:04	27° Ω 35'19	0°30'25
minimum elong	11481 Jul 31 20:49	19° Ω 07'22	1°33'28	min. Earth dist.	11487 Apr 12 02:36	27° Ω 36'35	8.52221 AU
max. Earth dist.	11481 Aug 01 07:10	19° Ω 10'32	10.69131 AU	direct	11487 Jun 19 03:17	24° Ω 12'36	
morning rise	11481 Aug 17 21:09	21° Ω 11'18			11487 Sep 13 23:35	0° \mathcal{M}	
retrograde	11481 Nov 29 20:07	28° Ω 42'56		evening set	11487 Sep 28 10:57	1° \mathcal{M} 42'30	
opposition	11482 Feb 07 22:12	25° Ω 19'28	-1°45'23	conjunction	11487 Oct 16 00:32	3° \mathcal{M} 51'59	0°36'24
min. Earth dist.	11482 Feb 07 13:08	25° Ω 21'12	8.68292 AU	minimum elong	11487 Oct 16 00:31	3° \mathcal{M} 51'58	0°36'44
direct	11482 Apr 17 16:57	21° Ω 58'49		max. Earth dist.	11487 Oct 16 06:49	3° \mathcal{M} 53'55	10.50365 AU
evening set	11482 Jul 27 08:22	29° Ω 18'02		morning rise	11487 Nov 02 16:55	6° \mathcal{M} 02'19	
	11482 Aug 02 03:40	0° η		retrograde	11488 Feb 15 13:04	13° \mathcal{M} 47'11	
				opposition	11488 Apr 24 09:41	10° \mathcal{M} 21'14	0°59'31

min. Earth dist.	11488 Apr 24 05:16	10° M 22'06	8.48576 AU	min. Earth dist.	11494 Jul 12 01:37	28° Z 46'32	8.36939 AU
direct	11488 Jul 01 01:43	6° M 57'52		direct	11494 Sep 18 01:22	25° Z 21'14	
evening set	11488 Oct 10 20:13	14° M 31'42			11494 Dec 04 00:22	0° ≈	
	11488 Oct 14 17:02	15° M		evening set	11494 Dec 31 20:17	3° ≈ 14'06	
conjunction	11488 Oct 28 11:35	16° M 42'09	0°58'58	conjunction	11495 Jan 18 13:29	5° ≈ 26'42	1°44'40
minimum elong	11488 Oct 28 11:33	16° M 42'08	0°59'27	minimum elong	11495 Jan 18 13:31	5° ≈ 26'42	1°45'18
max. Earth dist.	11488 Oct 28 15:21	16° M 43'19	10.46822 AU	max. Earth dist.	11495 Jan 18 02:49	5° ≈ 23'20	10.36912 AU
morning rise	11488 Nov 15 05:23	18° M 53'19		morning rise	11495 Feb 05 04:58	7° ≈ 38'48	
retrograde	11489 Feb 27 22:03	26° M 39'56			11495 Apr 28 00:13	15° ≈	
opposition	11489 May 07 11:49	23° M 13'59	1°25'54	retrograde	11495 May 18 18:37	15° ≈ 23'25	
min. Earth dist.	11489 May 07 09:28	23° M 14'27	8.45220 AU		11495 Jun 08 16:50	15° R ≈	
direct	11489 Jul 14 03:31	19° M 49'58		opposition	11495 Jul 25 03:18	11° ≈ 59'40	2°03'27
evening set	11489 Oct 24 10:00	27° M 27'55		min. Earth dist.	11495 Jul 25 11:43	11° ≈ 58'00	8.37328 AU
				direct	11495 Oct 01 17:02	8° ≈ 32'45	
conjunction	11489 Nov 11 02:41	29° M 39'09	1°18'43		11496 Jan 02 19:33	15° ≈	
minimum elong	11489 Nov 11 02:39	29° M 39'09	1°19'19	evening set	11496 Jan 14 17:56	16° ≈ 26'20	
max. Earth dist.	11489 Nov 11 04:15	29° M 39'39	10.43640 AU				
	11489 Nov 13 21:39	0° ≈		conjunction	11496 Feb 01 10:22	18° ≈ 38'41	1°33'00
morning rise	11489 Nov 28 21:09	1° ≈ 50'57		minimum elong	11496 Feb 01 10:24	18° ≈ 38'42	1°33'32
retrograde	11490 Mar 13 08:49	9° ≈ 38'49		max. Earth dist.	11496 Jan 31 22:56	18° ≈ 35'06	10.37732 AU
opposition	11490 May 20 15:20	6° ≈ 13'01	1°48'06	morning rise	11496 Feb 19 00:27	20° ≈ 50'22	
min. Earth dist.	11490 May 20 14:41	6° ≈ 13'09	8.42314 AU	retrograde	11496 May 31 03:52	28° ≈ 32'44	
direct	11490 Jul 27 07:54	2° ≈ 48'20		opposition	11496 Aug 06 12:29	25° ≈ 09'32	1°45'52
evening set	11490 Nov 07 03:35	10° ≈ 30'19		min. Earth dist.	11496 Aug 06 21:04	25° ≈ 07'50	8.38536 AU
				direct	11496 Oct 14 08:11	21° ≈ 42'37	
conjunction	11490 Nov 24 21:10	12° ≈ 42'11	1°34'34	evening set	11497 Jan 27 13:26	29° ≈ 35'52	
minimum elong	11490 Nov 24 21:08	12° ≈ 42'10	1°35'15		11497 Jan 30 19:45	0° ≈	
max. Earth dist.	11490 Nov 24 21:01	12° ≈ 42'08	10.40981 AU				
morning rise	11490 Dec 12 15:41	14° ≈ 54'23		conjunction	11497 Feb 14 04:44	1° ≈ 47'46	1°16'30
retrograde	11491 Mar 26 20:29	22° ≈ 42'54		minimum elong	11497 Feb 14 04:47	1° ≈ 47'47	1°16'55
opposition	11491 Jun 02 20:22	19° ≈ 17'19	2°04'54	max. Earth dist.	11497 Feb 13 17:33	1° ≈ 44'16	10.39382 AU
min. Earth dist.	11491 Jun 02 21:00	19° ≈ 17'11	8.39991 AU	morning rise	11497 Mar 03 17:06	3° ≈ 58'51	
direct	11491 Aug 09 15:13	15° ≈ 52'01		retrograde	11497 Jun 13 12:20	11° ≈ 38'35	
evening set	11491 Nov 21 00:02	23° ≈ 37'38		opposition	11497 Aug 19 21:49	8° ≈ 15'54	1°22'51
				min. Earth dist.	11497 Aug 20 06:07	8° ≈ 14'16	8.40550 AU
conjunction	11491 Dec 08 18:06	25° ≈ 49'57	1°45'36	direct	11497 Oct 27 22:58	4° ≈ 49'09	
minimum elong	11491 Dec 08 18:05	25° ≈ 49'56	1°46'19	evening set	11498 Feb 10 05:46	12° ≈ 41'03	
max. Earth dist.	11491 Dec 08 15:48	25° ≈ 49'13	10.38953 AU				
morning rise	11491 Dec 26 12:14	28° ≈ 02'21		conjunction	11498 Feb 27 19:29	14° ≈ 52'16	0°56'07
	11492 Jan 11 23:18	0° ≈		minimum elong	11498 Feb 27 19:31	14° ≈ 52'17	0°56'23
retrograde	11492 Apr 08 08:57	5° ≈ 50'48		max. Earth dist.	11498 Feb 27 09:03	14° ≈ 49'00	10.41804 AU
opposition	11492 Jun 15 02:42	2° ≈ 25'32	2°15'16	morning rise	11498 Mar 17 05:54	17° ≈ 02'34	
min. Earth dist.	11492 Jun 15 05:17	2° ≈ 25'01	8.38319 AU	retrograde	11498 Jun 26 17:22	24° ≈ 39'31	
	11492 Jul 18 19:51	30° R ≈		opposition	11498 Sep 02 06:43	21° ≈ 17'18	0°55'41
direct	11492 Aug 22 00:24	28° ≈ 59'38		min. Earth dist.	11498 Sep 02 14:49	21° ≈ 15'42	8.43286 AU
	11492 Sep 24 22:52	0° ≈		direct	11498 Nov 10 13:52	17° ≈ 50'50	
evening set	11492 Dec 03 22:29	6° ≈ 48'20		evening set	11499 Feb 23 18:37	25° ≈ 40'34	
conjunction	11492 Dec 21 16:33	9° ≈ 00'54	1°51'08	conjunction	11499 Mar 13 06:18	27° ≈ 50'52	0°32'59
minimum elong	11492 Dec 21 16:33	9° ≈ 00'54	1°51'51	minimum elong	11499 Mar 13 06:19	27° ≈ 50'53	0°33'05
max. Earth dist.	11492 Dec 21 11:16	8° ≈ 59'15	10.37594 AU	max. Earth dist.	11499 Mar 12 20:19	27° ≈ 47'45	10.44875 AU
morning rise	11493 Jan 08 09:59	11° ≈ 13'20		morning rise	11499 Mar 30 14:38	0° ≈ 00'14	
retrograde	11493 Apr 21 21:55	19° ≈ 01'00			11499 Mar 30 13:53	0° ≈	
opposition	11493 Jun 28 09:59	15° ≈ 36'11	2°18'34	retrograde	11499 Jul 09 20:17	7° ≈ 34'21	
min. Earth dist.	11493 Jun 28 15:03	15° ≈ 35'10	8.37298 AU	opposition	11499 Sep 15 14:37	4° ≈ 12'33	0°25'54
direct	11493 Sep 04 11:12	12° ≈ 09'45		min. Earth dist.	11499 Sep 15 22:35	4° ≈ 11'00	8.46605 AU
evening set	11493 Dec 17 21:36	20° ≈ 00'56		direct	11499 Nov 24 03:10	0° ≈ 46'30	
				evening set	11500 Mar 09 03:28	8° ≈ 33'24	
conjunction	11494 Jan 04 15:21	22° ≈ 13'35	1°50'49				
minimum elong	11494 Jan 04 15:21	22° ≈ 13'36	1°51'31	conjunction	11500 Mar 26 12:40	10° ≈ 42'38	0°08'23
max. Earth dist.	11494 Jan 04 06:55	22° ≈ 10'57	10.36896 AU	minimum elong	11500 Mar 26 12:41	10° ≈ 42'38	0°08'19
morning rise	11494 Jan 22 07:53	24° ≈ 25'56		behind sun begin	11500 Mar 26 06:22	10° ≈ 40'41	
	11494 Mar 15 14:11	0° ≈		behind sun end	11500 Mar 26 18:59	10° ≈ 44'35	
retrograde	11494 May 05 08:58	2° ≈ 12'18		max. Earth dist.	11500 Mar 26 03:18	10° ≈ 39'43	10.48431 AU
	11494 Jun 26 10:14	30° R ≈		morning rise	11500 Apr 12 18:47	12° ≈ 50'56	
opposition	11494 Jul 11 18:19	28° ≈ 48'00	2°14'33	retrograde	11500 Jul 22 21:12	20° ≈ 22'26	

desc. node	11500 Jul 31 08:38	20°♊18'36			11506 Jul 17 16:08	0°♊
opposition	11500 Sep 28 21:31	17°♊00'57 -0°04'56	retrograde		11506 Oct 06 15:33	4°♊58'25
min. Earth dist.	11500 Sep 29 04:24	16°♊59'37 8.50327 AU	opposition		11506 Dec 15 08:54	1°♊37'13 -2°14'38
direct	11500 Dec 07 14:08	13°♊35'26	min. Earth dist.		11506 Dec 15 04:14	1°♊38'06 8.70651 AU
evening set	11501 Mar 22 07:50	21°♊19'00			11507 Jan 06 15:46	30°♊♈
			direct		11507 Feb 23 03:12	28°♊15'53
conjunction	11501 Apr 08 14:22	23°♊27'02 -0°16'33			11507 Apr 10 01:59	0°♊
minimum elong	11501 Apr 08 14:21	23°♊27'01 0°16'47	evening set		11507 Jun 05 04:13	5°♊39'24
max. Earth dist.	11501 Apr 08 06:45	23°♊24'40 10.52284 AU				
morning rise	11501 Apr 25 18:04	25°♊34'12	conjunction		11507 Jun 21 22:49	7°♊41'41 -1°51'30
	11501 Jun 04 23:39	0°♊	minimum elong		11507 Jun 21 22:49	7°♊41'41 1°52'14
retrograde	11501 Aug 04 18:28	3°♊03'28	max. Earth dist.		11507 Jun 22 05:14	7°♊43'38 10.71379 AU
	11501 Oct 08 06:55	30°♊♋	morning rise		11507 Jul 08 17:41	9°♊44'04
opposition	11501 Oct 12 03:03	29°♊42'12 -0°35'14	retrograde		11507 Oct 19 08:32	17°♊09'50
min. Earth dist.	11501 Oct 12 07:53	29°♊41'16 8.54267 AU	opposition		11507 Dec 28 06:18	13°♊48'22 -2°18'19
direct	11501 Dec 21 00:16	26°♊17'19	min. Earth dist.		11507 Dec 27 23:33	13°♊49'39 8.72176 AU
	11502 Feb 27 22:43	0°♊	direct		11508 Mar 06 20:19	10°♊27'36
evening set	11502 Apr 04 07:58	3°♊57'18	evening set		11508 Jun 16 11:16	17°♊48'50
conjunction	11502 Apr 21 11:50	6°♊04'04 -0°40'23	conjunction		11508 Jul 03 05:55	19°♊50'56 -1°52'00
minimum elong	11502 Apr 21 11:49	6°♊04'03 0°40'46	minimum elong		11508 Jul 03 05:56	19°♊50'56 1°52'44
max. Earth dist.	11502 Apr 21 06:55	6°♊02'32 10.56246 AU	max. Earth dist.		11508 Jul 03 14:24	19°♊53'31 10.72509 AU
morning rise	11502 May 08 13:03	8°♊10'05	morning rise		11508 Jul 20 01:28	21°♊53'20
	11502 Jul 21 20:32	15°♊	retrograde		11508 Oct 31 02:53	29°♊20'02
retrograde	11502 Aug 17 15:36	15°♊37'33	opposition		11509 Jan 09 02:57	25°♊58'16 -2°15'48
	11502 Sep 13 20:34	15°♊♋	min. Earth dist.		11509 Jan 08 18:58	25°♊59'47 8.72907 AU
opposition	11502 Oct 25 06:56	12°♊16'26 -1°03'33	direct		11509 Mar 19 11:42	22°♊37'54
min. Earth dist.	11502 Oct 25 09:27	12°♊15'57 8.58230 AU	evening set		11509 Jun 28 17:44	29°♊57'22
direct	11503 Jan 03 06:38	8°♊52'15			11509 Jun 29 02:33	0°♊♈
	11503 Apr 04 16:55	15°♊				
evening set	11503 Apr 17 04:05	16°♊28'35	conjunction		11509 Jul 15 13:08	1°♊59'35 -1°47'30
			minimum elong		11509 Jul 15 13:10	1°♊59'36 1°48'10
conjunction	11503 May 04 05:19	18°♊34'08 -1°02'07	max. Earth dist.		11509 Jul 15 22:26	2°♊02'25 10.72842 AU
minimum elong	11503 May 04 05:17	18°♊34'08 1°02'37	morning rise		11509 Aug 01 10:17	4°♊02'18
max. Earth dist.	11503 May 04 03:07	18°♊33'27 10.60121 AU	retrograde		11509 Nov 12 20:54	11°♊30'14
morning rise	11503 May 21 04:12	20°♊39'04	opposition		11510 Jan 21 22:56	8°♊08'06 -2°07'12
retrograde	11503 Aug 30 12:17	28°♊05'12	min. Earth dist.		11510 Jan 21 14:38	8°♊09'40 8.72820 AU
opposition	11503 Nov 07 09:30	24°♊44'11 -1°28'35	direct		11510 Apr 01 01:30	4°♊48'00
min. Earth dist.	11503 Nov 07 10:18	24°♊44'02 8.62017 AU	evening set		11510 Jul 11 00:37	12°♊06'20
direct	11504 Jan 16 08:34	21°♊20'46				
evening set	11504 Apr 28 20:29	28°♊53'29	conjunction		11510 Jul 27 21:30	14°♊08'56 -1°38'11
	11504 May 07 22:55	0°♊♈	minimum elong		11510 Jul 27 21:32	14°♊08'57 1°38'45
			max. Earth dist.		11510 Jul 28 07:23	14°♊11'57 10.72364 AU
conjunction	11504 May 15 19:10	0°♊57'55 -1°20'47			11510 Aug 03 21:09	15°♊
minimum elong	11504 May 15 19:08	0°♊57'55 1°21'23	morning rise		11510 Aug 13 20:47	16°♊12'13
max. Earth dist.	11504 May 15 18:52	0°♊57'50 10.63722 AU	retrograde		11510 Nov 25 14:38	23°♊41'40
morning rise	11504 Jun 01 16:11	3°♊01'54	opposition		11511 Feb 03 18:19	20°♊19'05 -1°52'54
retrograde	11504 Sep 11 05:28	10°♊27'13	min. Earth dist.		11511 Feb 03 09:31	20°♊20'46 8.71914 AU
opposition	11504 Nov 19 10:42	7°♊06'15 -1°49'18	direct		11511 Apr 13 16:00	16°♊59'06
min. Earth dist.	11504 Nov 19 10:01	7°♊06'22 8.65451 AU	evening set		11511 Jul 23 08:37	24°♊16'58
direct	11505 Jan 28 08:42	3°♊43'34				
evening set	11505 May 11 09:37	11°♊12'55	conjunction		11511 Aug 09 07:42	26°♊20'13 -1°24'25
			minimum elong		11511 Aug 09 07:44	26°♊20'14 1°24'53
conjunction	11505 May 28 06:11	13°♊16'22 -1°35'36	max. Earth dist.		11511 Aug 09 18:39	26°♊23'34 10.71081 AU
minimum elong	11505 May 28 06:09	13°♊16'22 1°36'16	morning rise		11511 Aug 26 09:30	28°♊24'16
max. Earth dist.	11505 May 28 07:32	13°♊16'47 10.66892 AU	retrograde		11511 Sep 09 02:06	0°♊♈
morning rise	11505 Jun 14 01:56	15°♊19'34	opposition		11511 Dec 08 11:39	5°♊55'32
retrograde	11505 Sep 23 22:13	22°♊44'36	min. Earth dist.		11512 Feb 16 13:37	2°♊32'26 -1°33'28
opposition	11505 Dec 02 10:25	19°♊23'34 -2°04'51	direct		11512 Feb 16 04:09	2°♊34'15 8.70207 AU
min. Earth dist.	11505 Dec 02 08:06	19°♊24'00 8.68378 AU	evening set		11512 Mar 25 09:01	30°♊♋
direct	11506 Feb 10 07:37	16°♊01'35			11512 Apr 25 06:05	29°♊12'25
evening set	11506 May 23 19:56	23°♊27'50	conjunction		11512 May 25 14:25	0°♊♈
			minimum elong		11512 Aug 03 18:31	6°♊30'27
conjunction	11506 Jun 09 15:09	25°♊30'35 -1°45'58				
minimum elong	11506 Jun 09 15:08	25°♊30'34 1°46'41	conjunction		11512 Aug 20 20:14	8°♊34'34 -1°06'48
max. Earth dist.	11506 Jun 09 18:44	25°♊31'40 10.69486 AU	minimum elong		11512 Aug 20 20:17	8°♊34'35 1°07'07
morning rise	11506 Jun 26 10:11	27°♊33'14	max. Earth dist.		11512 Aug 21 07:50	8°♊38'07 10.69006 AU

morning rise	11512 Sep 07 00:51	10° \mathbb{M} 39'35	conjunction	11518 Nov 06 07:02	24° \mathbb{M} 02'17	1°10'15
retrograde	11512 Dec 20 10:10	18° \mathbb{M} 12'51	minimum elong	11518 Nov 06 06:59	24° \mathbb{M} 02'16	1°10'47
opposition	11513 Feb 28 08:59	14° \mathbb{M} 49'13 -1°09'42	max. Earth dist.	11518 Nov 06 08:58	24° \mathbb{M} 02'53	10.46201 AU
min. Earth dist.	11513 Feb 27 23:29	14° \mathbb{M} 51'03 8.67711 AU	morning rise	11518 Nov 24 00:58	26° \mathbb{M} 13'35	
direct	11513 May 07 19:03	11° \mathbb{M} 28'58		11518 Dec 27 10:06	0° \mathbb{Z}	
evening set	11513 Aug 16 07:29	18° \mathbb{M} 48'02	retrograde	11519 Mar 08 15:42	4° \mathbb{Z} 00'10	
			opposition	11519 May 16 00:43	0° \mathbb{Z} 34'16	1°38'40
conjunction	11513 Sep 02 11:57	20° \mathbb{M} 53'11 -0°46'01	min. Earth dist.	11519 May 15 23:54	0° \mathbb{Z} 34'26	8.44429 AU
minimum elong	11513 Sep 02 11:59	20° \mathbb{M} 53'12 0°46'12		11519 May 23 05:33	30° \mathbb{R} \mathbb{M}	
max. Earth dist.	11513 Sep 02 22:26	20° \mathbb{M} 56'23 10.66151 AU	direct	11519 Jul 22 16:25	27° \mathbb{M} 09'50	
morning rise	11513 Sep 19 19:36	22° \mathbb{M} 59'18		11519 Sep 19 00:25	0° \mathbb{Z}	
	11513 Dec 07 01:08	0° \mathbb{Z}	evening set	11519 Nov 02 05:56	4° \mathbb{Z} 49'14	
retrograde	11514 Jan 02 09:51	0° \mathbb{Z} 34'47				
	11514 Jan 28 22:19	30° \mathbb{R} \mathbb{M}	conjunction	11519 Nov 19 23:01	7° \mathbb{Z} 00'41	1°27'57
opposition	11514 Mar 13 04:41	27° \mathbb{M} 10'39 -0°42'33	minimum elong	11519 Nov 19 22:59	7° \mathbb{Z} 00'40	1°28'35
min. Earth dist.	11514 Mar 12 20:30	27° \mathbb{M} 12'14 8.64465 AU	max. Earth dist.	11519 Nov 19 21:57	7° \mathbb{Z} 00'21	10.42666 AU
direct	11514 May 20 09:25	23° \mathbb{M} 49'59	morning rise	11519 Dec 07 17:30	9° \mathbb{Z} 12'35	
	11514 Aug 18 23:09	0° \mathbb{Z}	retrograde	11520 Mar 21 01:17	17° \mathbb{Z} 00'18	
evening set	11514 Aug 29 00:03	1° \mathbb{Z} 10'59	opposition	11520 May 28 04:18	13° \mathbb{Z} 34'25	1°58'02
			min. Earth dist.	11520 May 28 05:58	13° \mathbb{Z} 34'05	8.41207 AU
conjunction	11514 Sep 15 07:17	3° \mathbb{Z} 17'18 -0°22'59	direct	11520 Aug 03 22:20	10° \mathbb{Z} 09'08	
minimum elong	11514 Sep 15 07:17	3° \mathbb{Z} 17'18 0°23'00	evening set	11520 Nov 15 00:23	17° \mathbb{Z} 52'39	
max. Earth dist.	11514 Sep 15 15:45	3° \mathbb{Z} 19'53 10.62607 AU				
morning rise	11514 Oct 02 17:56	5° \mathbb{Z} 24'35	conjunction	11520 Dec 02 18:07	20° \mathbb{Z} 04'42	1°41'15
retrograde	11515 Jan 15 12:09	13° \mathbb{Z} 02'31	minimum elong	11520 Dec 02 18:05	20° \mathbb{Z} 04'41	1°41'57
opposition	11515 Mar 26 01:24	9° \mathbb{Z} 37'55 -0°13'12	max. Earth dist.	11520 Dec 02 14:11	20° \mathbb{Z} 03'28	10.39734 AU
min. Earth dist.	11515 Mar 25 18:52	9° \mathbb{Z} 39'11 8.60639 AU	morning rise	11520 Dec 20 12:36	22° \mathbb{Z} 16'59	
direct	11515 Jun 02 01:10	6° \mathbb{Z} 16'41		11521 Mar 24 15:38	0° \mathbb{Z}	
asc. node	11515 Sep 07 09:49	13° \mathbb{Z} 15'39	retrograde	11521 Apr 03 11:56	0° \mathbb{Z} 05'14	
evening set	11515 Sep 10 20:38	13° \mathbb{Z} 40'23		11521 Apr 13 09:33	30° \mathbb{R} \mathbb{Z}	
			opposition	11521 Jun 10 09:26	26° \mathbb{Z} 39'29	2°11'26
conjunction	11515 Sep 28 06:37	15° \mathbb{Z} 47'53 0°01'23	min. Earth dist.	11521 Jun 10 13:02	26° \mathbb{Z} 38'46	8.38654 AU
minimum elong	11515 Sep 28 06:36	15° \mathbb{Z} 47'53 0°01'31	direct	11521 Aug 17 06:44	23° \mathbb{Z} 13'26	
behind sun begin	11515 Sep 27 23:25	15° \mathbb{Z} 45'42		11521 Nov 20 12:55	0° \mathbb{Z}	
behind sun end	11515 Sep 28 13:47	15° \mathbb{Z} 50'04	evening set	11521 Nov 28 21:14	1° \mathbb{Z} 00'36	
max. Earth dist.	11515 Sep 28 13:29	15° \mathbb{Z} 49'58 10.58598 AU				
morning rise	11515 Oct 15 19:57	17° \mathbb{Z} 56'22	conjunction	11521 Dec 16 15:15	3° \mathbb{Z} 13'04	1°49'21
retrograde	11516 Jan 28 15:18	25° \mathbb{Z} 36'47	minimum elong	11521 Dec 16 15:14	3° \mathbb{Z} 13'04	1°50'05
opposition	11516 Apr 06 23:12	22° \mathbb{Z} 11'43 0°17'02	max. Earth dist.	11521 Dec 16 09:28	3° \mathbb{Z} 11'15	10.37538 AU
min. Earth dist.	11516 Apr 06 18:04	22° \mathbb{Z} 12'43 8.56492 AU	morning rise	11522 Jan 03 09:12	5° \mathbb{Z} 25'32	
direct	11516 Jun 13 19:44	18° \mathbb{Z} 49'48	retrograde	11522 Apr 16 23:52	13° \mathbb{Z} 13'37	
evening set	11516 Sep 22 22:01	26° \mathbb{Z} 16'52	opposition	11522 Jun 23 15:50	9° \mathbb{Z} 48'08	2°18'02
			min. Earth dist.	11522 Jun 23 20:37	9° \mathbb{Z} 47'11	8.36890 AU
conjunction	11516 Oct 10 10:33	28° \mathbb{Z} 25'32 0°25'47	direct	11522 Aug 30 16:36	6° \mathbb{Z} 21'28	
minimum elong	11516 Oct 10 10:32	28° \mathbb{Z} 25'31 0°26'03	evening set	11522 Dec 12 19:32	14° \mathbb{Z} 11'34	
max. Earth dist.	11516 Oct 10 16:22	28° \mathbb{Z} 27'19 10.54377 AU				
	11516 Oct 23 06:10	0° \mathbb{M}	conjunction	11522 Dec 30 13:34	16° \mathbb{Z} 24'17	1°51'45
morning rise	11516 Oct 28 02:00	0° \mathbb{M} 35'06	minimum elong	11522 Dec 30 13:34	16° \mathbb{Z} 24'17	1°52'28
retrograde	11517 Feb 09 20:31	8° \mathbb{M} 17'53	max. Earth dist.	11522 Dec 30 06:25	16° \mathbb{Z} 22'02	10.36198 AU
opposition	11517 Apr 19 22:06	4° \mathbb{M} 52'24 0°46'45	morning rise	11523 Jan 17 06:38	18° \mathbb{Z} 36'45	
min. Earth dist.	11517 Apr 19 17:54	4° \mathbb{M} 53'14 8.52265 AU	retrograde	11523 Apr 30 11:30	26° \mathbb{Z} 23'56	
direct	11517 Jun 26 17:01	1° \mathbb{M} 29'42	opposition	11523 Jul 06 23:18	22° \mathbb{Z} 58'51	2°17'24
evening set	11517 Oct 06 04:13	9° \mathbb{M} 00'39	min. Earth dist.	11523 Jul 07 05:04	22° \mathbb{Z} 57'41	8.36009 AU
			direct	11523 Sep 13 05:02	19° \mathbb{Z} 31'43	
conjunction	11517 Oct 23 18:50	11° \mathbb{M} 10'24 0°49'09	evening set	11523 Dec 26 18:15	27° \mathbb{Z} 23'55	
minimum elong	11517 Oct 23 18:48	11° \mathbb{M} 10'23 0°49'34				
max. Earth dist.	11517 Oct 23 23:09	11° \mathbb{M} 11'44 10.50172 AU	conjunction	11524 Jan 13 11:58	29° \mathbb{Z} 36'40	1°48'16
morning rise	11517 Nov 10 11:47	13° \mathbb{M} 20'54	minimum elong	11524 Jan 13 11:59	29° \mathbb{Z} 36'40	1°48'56
	11517 Nov 24 10:58	15° \mathbb{M}	max. Earth dist.	11524 Jan 13 03:33	29° \mathbb{Z} 34'01	10.35786 AU
retrograde	11518 Feb 23 05:12	21° \mathbb{M} 05'47		11524 Jan 16 14:13	0° \mathbb{Z}	
opposition	11518 May 02 22:34	17° \mathbb{M} 40'02 1°14'27	morning rise	11524 Jan 31 03:56	1° \mathbb{Z} 48'58	
min. Earth dist.	11518 May 02 19:44	17° \mathbb{M} 40'36 8.48175 AU	retrograde	11524 May 12 22:22	9° \mathbb{Z} 34'35	
	11518 Jun 10 18:39	15° \mathbb{R} \mathbb{M}	opposition	11524 Jul 19 07:44	6° \mathbb{Z} 10'00	2°09'31
direct	11518 Jul 09 15:22	14° \mathbb{M} 16'29	min. Earth dist.	11524 Jul 19 14:38	6° \mathbb{Z} 08'37	8.36057 AU
	11518 Aug 07 06:37	15° \mathbb{M}	direct	11524 Sep 25 18:41	2° \mathbb{Z} 42'38	
evening set	11518 Oct 19 14:56	21° \mathbb{M} 51'36	evening set	11525 Jan 08 16:18	10° \mathbb{Z} 35'58	

conjunction	11525 Jan 26 09:14	12°  48'32	1°39'05	direct	11530 Dec 15 03:02	20°  41'12	
minimum elong	11525 Jan 26 09:16	12°  48'33	1°39'40	evening set	11531 Mar 29 17:02	28°  22'58	
max. Earth dist.	11525 Jan 25 23:21	12°  45'26	10.36325 AU		11531 Apr 11 20:28	0°  8	
morning rise	11525 Feb 12 23:54	15°  00'28					
	11525 Feb 12 22:22	15°  		conjunction	11531 Apr 15 22:10	0°  30'19	-0°29'30
retrograde	11525 May 26 08:29	22°  43'58		minimum elong	11531 Apr 15 22:09	0°  30'19	0°29'49
opposition	11525 Aug 01 16:40	19°  20'00	1°54'49	max. Earth dist.	11531 Apr 15 16:37	0°  28'36	10.55035 AU
min. Earth dist.	11525 Aug 02 00:50	19°  18'23	8.37045 AU	morning rise	11531 May 03 00:31	2°  36'51	
direct	11525 Oct 09 08:52	15°  52'36		retrograde	11531 Aug 12 03:27	10°  30'09	
evening set	11526 Jan 22 12:35	23°  46'03		opposition	11531 Oct 19 14:12	6°  44'28	-0°50'42
				min. Earth dist.	11531 Oct 19 18:12	6°  43'41	8.57135 AU
conjunction	11526 Feb 09 04:25	25°  58'14	1°24'43	direct	11531 Dec 28 11:07	3°  20'25	
minimum elong	11526 Feb 09 04:27	25°  58'15	1°25'12	evening set	11532 Apr 10 15:36	10°  58'33	
max. Earth dist.	11526 Feb 08 17:23	25°  54'46	10.37803 AU				
morning rise	11526 Feb 26 17:39	28°  09'39		conjunction	11532 Apr 27 17:53	13°  04'38	-0°52'20
	11526 Mar 14 01:59	0°  		minimum elong	11532 Apr 27 17:52	13°  04'37	0°52'47
retrograde	11526 Jun 08 16:36	5°  50'37		max. Earth dist.	11532 Apr 27 13:41	13°  03'20	10.59166 AU
opposition	11526 Aug 15 01:47	2°  27'19	1°34'10		11532 May 13 08:54	15°  8	
min. Earth dist.	11526 Aug 15 10:25	2°  25'36	8.38936 AU	morning rise	11532 May 14 17:57	15°  8'10'01	
	11526 Sep 18 13:13	30°  		retrograde	11532 Aug 23 23:34	22°  36'43	
direct	11526 Oct 23 00:05	29°  00'06		opposition	11532 Oct 31 17:53	19°  8'16'12	-1°17'24
	11526 Nov 26 05:10	0°  		min. Earth dist.	11532 Oct 31 20:04	19°  8'15'47	8.61164 AU
evening set	11527 Feb 05 06:12	6°  52'42		direct	11533 Jan 09 16:20	15°  8'52'56	
				evening set	11533 Apr 23 09:58	23°  8'27'21	
conjunction	11527 Feb 22 20:38	9°  04'17	1°06'00	conjunction	11533 May 10 09:44	25°  8'32'15	-1°12'31
minimum elong	11527 Feb 22 20:41	9°  04'18	1°06'20	minimum elong	11533 May 10 09:41	25°  8'32'14	1°13'05
max. Earth dist.	11527 Feb 22 09:30	9°  00'47	10.40142 AU	max. Earth dist.	11533 May 10 07:52	25°  8'31'40	10.62973 AU
morning rise	11527 Mar 12 08:14	11°  05'01		morning rise	11533 May 27 07:40	27°  8'36'37	
retrograde	11527 Jun 21 21:41	18°  05'31'4			11533 Jun 16 21:45	0°  II	
opposition	11527 Aug 28 10:40	15°  30'36	1°08'44	retrograde	11533 Sep 05 17:59	5°  II'02'18	
min. Earth dist.	11527 Aug 28 18:53	15°  28'58	8.41623 AU	opposition	11533 Nov 13 20:00	1°  II'41'49	-1°40'13
direct	11527 Nov 05 16:06	12°  03'47		min. Earth dist.	11533 Nov 13 20:05	1°  II'41'48	8.64735 AU
evening set	11528 Feb 18 20:45	19°  05'43'8			11533 Dec 07 03:58	30°  R'8	
				direct	11534 Jan 22 19:06	28°  8'19'16	
conjunction	11528 Mar 07 09:25	22°  05'24	0°44'00	evening set	11534 Mar 09 02:02	0°  II	
minimum elong	11528 Mar 07 09:27	22°  05'24	0°44'10		11534 May 06 00:58	5°  II'50'16	
max. Earth dist.	11528 Mar 06 23:18	22°  02'14	10.43204 AU	conjunction	11534 May 22 22:35	7°  II'54'08	-1°29'11
morning rise	11528 Mar 24 18:56	24°  05'15'14		minimum elong	11534 May 22 22:33	7°  II'54'08	1°29'50
	11528 May 18 22:22	0°  		max. Earth dist.	11534 May 22 23:04	7°  II'54'17	10.66192 AU
retrograde	11528 Jul 04 02:24	1°  Y'50'42		morning rise	11534 Jun 08 18:47	9°  II'57'39	
	11528 Aug 20 15:58	30°  R'36'8		retrograde	11534 Sep 18 13:31	17°  II'22'56	
opposition	11528 Sep 09 18:59	28°  05'28'40	0°39'58	opposition	11534 Nov 26 20:38	14°  II'02'23	-1°58'13
min. Earth dist.	11528 Sep 10 01:58	28°  05'27'17	8.44964 AU	min. Earth dist.	11534 Nov 26 19:03	14°  II'02'41	8.67625 AU
direct	11528 Nov 18 05:42	25°  05'02'26		direct	11535 Feb 04 18:20	10°  II'40'31	
	11529 Feb 06 21:05	0°  Y		evening set	11535 May 18 13:10	18°  II'08'27	
evening set	11529 Mar 03 07:35	2°  Y'50'46					
				conjunction	11535 Jun 04 09:04	20°  II'11'33	-1°41'39
conjunction	11529 Mar 20 18:07	5°  Y'00'32	0°19'55	minimum elong	11535 Jun 04 09:02	20°  II'11'33	1°42'21
minimum elong	11529 Mar 20 18:07	5°  Y'00'33	0°19'55	max. Earth dist.	11535 Jun 04 11:20	20°  II'12'15	10.68678 AU
max. Earth dist.	11529 Mar 20 09:52	4°  Y'57'58	10.46833 AU	morning rise	11535 Jun 21 04:11	22°  II'14'27	
morning rise	11529 Apr 07 01:16	7°  Y'09'21		retrograde	11535 Oct 01 07:36	29°  II'39'52	
retrograde	11529 Jul 17 05:46	14°  Y'42'09		opposition	11535 Dec 09 20:21	26°  II'19'09	-2°10'43
opposition	11529 Sep 23 02:37	11°  Y'20'39	0°09'25	min. Earth dist.	11535 Dec 09 17:39	26°  II'19'39	8.69755 AU
min. Earth dist.	11529 Sep 23 08:31	11°  Y'19'30	8.48798 AU	direct	11536 Feb 17 14:13	22°  II'57'51	
direct	11529 Dec 01 16:46	7°  Y'55'07			11536 May 26 17:41	0°  	
desc. node	11530 Jan 15 15:56	9°  Y'35'03		evening set	11536 May 29 23:00	0°  	
evening set	11530 Mar 16 14:17	15°  Y'40'21					
				conjunction	11536 Jun 15 17:45	2°  	-1°49'27
conjunction	11530 Apr 02 22:15	17°  Y'48'57	-0°05'05	minimum elong	11536 Jun 15 17:44	2°  	1°50'11
minimum elong	11530 Apr 02 22:16	17°  Y'48'57	0°05'15	max. Earth dist.	11536 Jun 15 21:07	2°  	10.70404 AU
behind sun begin	11530 Apr 02 15:21	17°  Y'46'49		morning rise	11536 Jul 02 12:38	4°  	
behind sun end	11530 Apr 03 05:10	17°  Y'51'05		retrograde	11536 Oct 12 23:54	11°  Y'54'11	
max. Earth dist.	11530 Apr 02 15:34	17°  Y'46'53	10.50847 AU	opposition	11536 Dec 21 19:03	8°  	-2°17'15
morning rise	11530 Apr 20 03:00	19°  Y'56'39		min. Earth dist.	11536 Dec 21 15:12	8°  	8.71109 AU
retrograde	11530 Jul 30 05:37	27°  Y'27'02		direct	11537 Mar 01 09:36	5°  	
opposition	11530 Oct 06 09:09	24°  Y'06'00	-0°21'18				
min. Earth dist.	11530 Oct 06 14:09	24°  Y'05'01	8.52929 AU				

evening set	11537 Jun 11 07:11	12°☾35'06		min. Earth dist.	11543 Mar 07 13:28	22°☾01'13	8.63106 AU
				direct	11543 May 15 05:46	18°☾38'24	
conjunction	11537 Jun 28 01:40	14°☾37'23 -1°52'16		evening set	11543 Aug 23 18:12	25°☾59'38	
minimum elong	11537 Jun 28 01:40	14°☾37'23 1°53'00					
max. Earth dist.	11537 Jun 28 06:48	14°☾38'57 10.71357 AU		conjunction	11543 Sep 10 00:26	28°☾05'47 -0°33'18	
morning rise	11537 Jul 14 21:02	16°☾39'54		minimum elong	11543 Sep 10 00:27	28°☾05'47 0°33'23	
retrograde	11537 Oct 25 17:42	24°☾06'49		max. Earth dist.	11543 Sep 10 10:40	28°☾08'55 10.61402 AU	
opposition	11538 Jan 03 16:33	20°☾45'14 -2°17'35			11543 Sep 25 14:58	0°☾	
min. Earth dist.	11538 Jan 03 11:03	20°☾46'16 8.71668 AU		morning rise	11543 Sep 27 09:51	0°☾12'53	
direct	11538 Mar 14 04:08	17°☾24'35		retrograde	11544 Jan 10 01:56	7°☾50'55	
evening set	11538 Jun 23 14:24	24°☾45'36		opposition	11544 Mar 19 18:34	4°☾25'44 -0°26'15	
				min. Earth dist.	11544 Mar 19 10:19	4°☾27'21 8.59630 AU	
conjunction	11538 Jul 10 09:31	26°☾47'56 -1°50'02		direct	11544 May 26 21:35	1°☾04'04	
minimum elong	11538 Jul 10 09:32	26°☾47'56 1°50'44		evening set	11544 Sep 04 13:31	8°☾27'34	
max. Earth dist.	11538 Jul 10 16:55	26°☾50'12 10.71514 AU					
morning rise	11538 Jul 27 05:57	28°☾50'40		conjunction	11544 Sep 21 22:34	10°☾34'52 -0°09'24	
	11538 Aug 06 01:35	0°☾		minimum elong	11544 Sep 21 22:34	10°☾34'52 0°09'20	
retrograde	11538 Nov 07 12:09	6°☾18'48		behind sun begin	11544 Sep 21 16:34	10°☾33'03	
opposition	11539 Jan 16 13:20	2°☾56'38 -2°11'44		behind sun end	11544 Sep 22 04:35	10°☾36'42	
min. Earth dist.	11539 Jan 16 05:58	2°☾58'01 8.71415 AU		max. Earth dist.	11544 Sep 22 08:00	10°☾37'45 10.57775 AU	
	11539 Mar 05 00:22	30°☾		morning rise	11544 Oct 09 10:45	12°☾43'09	
direct	11539 Mar 26 19:22	29°☾36'08		retrograde	11545 Jan 22 06:32	20°☾23'34	
	11539 Apr 17 08:21	0°☾		asc. node	11545 Feb 13 13:33	19°☾58'22	
evening set	11539 Jul 05 21:28	6°☾55'47		opposition	11545 Apr 01 16:27	16°☾57'58 0°03'51	
				min. Earth dist.	11545 Apr 01 09:09	16°☾59'24 8.55871 AU	
conjunction	11539 Jul 22 17:49	8°☾58'26 -1°42'52		direct	11545 Jun 08 13:52	13°☾35'45	
minimum elong	11539 Jul 22 17:51	8°☾58'26 1°43'29		evening set	11545 Sep 17 13:31	21°☾02'16	
max. Earth dist.	11539 Jul 23 03:11	9°☾01'17 10.70876 AU					
morning rise	11539 Aug 08 16:00	11°☾01'39		conjunction	11545 Oct 05 01:02	23°☾10'43 0°15'14	
	11539 Sep 13 20:57	15°☾		minimum elong	11545 Oct 05 01:01	23°☾10'43 0°15'27	
retrograde	11539 Nov 20 07:10	18°☾31'20		behind sun begin	11545 Oct 04 23:12	23°☾10'09	
opposition	11540 Jan 29 09:36	15°☾08'30 -1°59'57		behind sun end	11545 Oct 05 02:50	23°☾11'16	
min. Earth dist.	11540 Jan 29 01:10	15°☾10'07 8.70373 AU		max. Earth dist.	11545 Oct 05 08:28	23°☾12'59 10.53943 AU	
	11540 Jan 31 06:12	15°☾		morning rise	11545 Oct 22 15:38	25°☾20'06	
direct	11540 Apr 07 10:00	11°☾48'01			11545 Dec 04 15:07	0°☾	
	11540 Jun 09 10:43	15°☾		retrograde	11546 Feb 04 11:43	3°☾02'50	
evening set	11540 Jul 17 05:24	19°☾06'58			11546 Apr 09 18:26	30°☾	
				opposition	11546 Apr 14 15:31	29°☾36'58 0°34'02	
conjunction	11540 Aug 03 03:33	21°☾10'12 -1°31'02		min. Earth dist.	11546 Apr 14 10:03	29°☾38'03 8.52016 AU	
minimum elong	11540 Aug 03 03:35	21°☾10'12 1°31'33		direct	11546 Jun 21 10:09	26°☾14'08	
max. Earth dist.	11540 Aug 03 13:22	21°☾13'11 10.69482 AU			11546 Aug 28 11:41	0°☾	
morning rise	11540 Aug 20 04:12	23°☾14'09		evening set	11546 Sep 30 18:14	3°☾44'16	
	11540 Nov 01 20:26	0°☾					
retrograde	11540 Dec 02 04:10	0°☾45'36		conjunction	11546 Oct 18 07:53	5°☾53'47 0°39'13	
	11541 Jan 01 18:45	30°☾		minimum elong	11546 Oct 18 07:52	5°☾53'47 0°39'35	
opposition	11541 Feb 10 05:34	27°☾22'09 -1°42'42		max. Earth dist.	11546 Oct 18 13:01	5°☾55'22 10.50110 AU	
min. Earth dist.	11541 Feb 09 21:07	27°☾23'46 8.68595 AU		morning rise	11546 Nov 05 00:26	8°☾04'10	
direct	11541 Apr 19 23:47	24°☾01'31			11547 Jan 17 20:11	15°☾	
	11541 Jul 18 04:38	0°☾		retrograde	11547 Feb 17 19:23	15°☾49'04	
evening set	11541 Jul 29 14:55	1°☾20'28			11547 Mar 20 22:49	15°☾	
				opposition	11547 Apr 27 16:11	12°☾23'03 1°02'49	
conjunction	11541 Aug 15 15:25	3°☾24'30 -1°15'01		min. Earth dist.	11547 Apr 27 12:33	12°☾23'46 8.48275 AU	
minimum elong	11541 Aug 15 15:28	3°☾24'31 1°15'25		direct	11547 Jul 04 08:47	8°☾59'34	
max. Earth dist.	11541 Aug 16 01:06	3°☾27'28 10.67385 AU			11547 Oct 01 00:12	15°☾	
morning rise	11541 Sep 01 19:00	5°☾29'25		evening set	11547 Oct 14 03:36	16°☾33'41	
retrograde	11541 Dec 15 01:06	13°☾02'51					
opposition	11542 Feb 23 01:30	9°☾38'48 -1°20'42		conjunction	11547 Oct 31 19:05	18°☾44'11 1°01'27	
min. Earth dist.	11542 Feb 22 17:19	9°☾40'22 8.66140 AU		minimum elong	11547 Oct 31 19:03	18°☾44'10 1°01'57	
direct	11542 May 02 13:47	6°☾17'54		max. Earth dist.	11547 Oct 31 22:34	18°☾45'16 10.46475 AU	
evening set	11542 Aug 11 02:53	13°☾37'38		morning rise	11547 Nov 18 12:54	20°☾55'24	
				retrograde	11548 Mar 02 05:01	28°☾42'08	
conjunction	11542 Aug 28 06:10	15°☾42'39 -0°55'30		opposition	11548 May 09 18:21	25°☾16'07 1°28'43	
minimum elong	11542 Aug 28 06:12	15°☾42'39 0°55'44		min. Earth dist.	11548 May 09 16:05	25°☾16'34 8.44836 AU	
max. Earth dist.	11542 Aug 28 16:01	15°☾45'39 10.64654 AU		direct	11548 Jul 16 10:25	21°☾51'59	
morning rise	11542 Sep 14 12:42	17°☾48'36		evening set	11548 Oct 26 17:40	29°☾30'19	
retrograde	11542 Dec 27 23:33	25°☾24'17			11548 Oct 30 18:45	0°☾	
opposition	11543 Mar 07 21:42	21°☾59'38 -0°54'51					

conjunction	11548 Nov 13 10:31	1° \mathbb{A} 41'38	1°20'45	conjunction	11555 Feb 03 19:02	20° \approx 44'35	1°31'04
minimum elong	11548 Nov 13 10:29	1° \mathbb{A} 41'37	1°21'22	minimum elong	11555 Feb 03 19:04	20° \approx 44'35	1°31'36
max. Earth dist.	11548 Nov 13 12:21	1° \mathbb{A} 42'12	10.43220 AU	max. Earth dist.	11555 Feb 03 08:21	20° \approx 41'13	10.37662 AU
morning rise	11548 Dec 01 04:54	3° \mathbb{A} 53'28		morning rise	11555 Feb 21 08:56	22° \approx 56'15	
retrograde	11549 Mar 15 15:42	11° \mathbb{A} 41'31			11555 May 07 17:54	0° \mathbb{H}	
opposition	11549 May 22 21:59	8° \mathbb{A} 15'39	1°50'18	retrograde	11555 Jun 03 12:58	0° \mathbb{H} 38'37	
min. Earth dist.	11549 May 22 21:05	8° \mathbb{A} 15'50	8.41868 AU		11555 Jun 30 12:46	30° \mathbb{R} \approx	
direct	11549 Jul 29 15:10	4° \mathbb{A} 50'54		opposition	11555 Aug 09 20:36	27° \approx 15'27	1°43'09
evening set	11549 Nov 09 11:38	12° \mathbb{A} 33'19		min. Earth dist.	11555 Aug 10 04:53	27° \approx 13'49	8.38476 AU
				direct	11555 Oct 17 15:44	23° \approx 48'35	
conjunction	11549 Nov 27 05:18	14° \mathbb{A} 45'17	1°36'02		11556 Jan 16 18:16	0° \mathbb{H}	
minimum elong	11549 Nov 27 05:16	14° \mathbb{A} 45'16	1°36'43	evening set	11556 Jan 30 22:04	1° \mathbb{H} 41'56	
max. Earth dist.	11549 Nov 27 05:09	14° \mathbb{A} 45'14	10.40513 AU				
morning rise	11549 Dec 14 23:42	16° \mathbb{A} 57'31		conjunction	11556 Feb 17 13:20	3° \mathbb{H} 53'50	1°14'03
retrograde	11550 Mar 29 04:36	24° \mathbb{A} 46'17		minimum elong	11556 Feb 17 13:22	3° \mathbb{H} 53'51	1°14'27
opposition	11550 Jun 05 03:19	21° \mathbb{A} 20'41	2°06'20	max. Earth dist.	11556 Feb 17 02:25	3° \mathbb{H} 50'25	10.39335 AU
min. Earth dist.	11550 Jun 05 04:06	21° \mathbb{A} 20'32	8.39516 AU	morning rise	11556 Mar 06 01:32	6° \mathbb{H} 04'55	
direct	11550 Aug 11 21:34	17° \mathbb{A} 55'19		retrograde	11556 Jun 15 20:21	13° \mathbb{H} 44'41	
evening set	11550 Nov 23 08:23	25° \mathbb{A} 41'26		opposition	11556 Aug 22 06:10	10° \mathbb{H} 22'04	1°19'32
				min. Earth dist.	11556 Aug 22 14:47	10° \mathbb{H} 20'21	8.40506 AU
conjunction	11550 Dec 11 02:22	27° \mathbb{A} 53'49	1°46'24	direct	11556 Oct 30 07:37	6° \mathbb{H} 55'21	
minimum elong	11550 Dec 11 02:21	27° \mathbb{A} 53'49	1°47'08	evening set	11557 Feb 12 14:30	14° \mathbb{H} 47'22	
max. Earth dist.	11550 Dec 10 23:30	27° \mathbb{A} 52'55	10.38485 AU				
	11550 Dec 27 23:56	0° \mathbb{B}		conjunction	11557 Mar 02 04:02	16° \mathbb{H} 58'34	0°53'15
morning rise	11550 Dec 28 20:28	0° \mathbb{B} 06'18		minimum elong	11557 Mar 02 04:04	16° \mathbb{H} 58'35	0°53'30
retrograde	11551 Apr 11 17:54	7° \mathbb{B} 54'59		max. Earth dist.	11557 Mar 01 17:07	16° \mathbb{H} 55'09	10.41766 AU
opposition	11551 Jun 18 10:03	4° \mathbb{B} 29'45	2°15'51	morning rise	11557 Mar 19 14:21	19° \mathbb{H} 08'52	
min. Earth dist.	11551 Jun 18 13:13	4° \mathbb{B} 29'07	8.37879 AU	retrograde	11557 Jun 29 02:00	26° \mathbb{H} 45'52	
direct	11551 Aug 25 06:47	1° \mathbb{B} 03'48		opposition	11557 Sep 04 15:18	23° \mathbb{H} 23'44	0°51'58
evening set	11551 Dec 07 07:04	8° \mathbb{B} 53'00		min. Earth dist.	11557 Sep 05 00:00	23° \mathbb{H} 22'02	8.43254 AU
				direct	11557 Nov 12 22:15	19° \mathbb{H} 57'20	
conjunction	11551 Dec 25 01:03	11° \mathbb{B} 05'38	1°51'14	evening set	11558 Feb 26 03:21	27° \mathbb{H} 47'09	
minimum elong	11551 Dec 25 01:03	11° \mathbb{B} 05'38	1°51'58				
max. Earth dist.	11551 Dec 24 19:02	11° \mathbb{B} 03'45	10.37203 AU	conjunction	11558 Mar 15 14:46	29° \mathbb{H} 57'26	0°29'52
morning rise	11552 Jan 11 18:32	13° \mathbb{B} 18'09		minimum elong	11558 Mar 15 14:47	29° \mathbb{H} 57'26	0°29'57
retrograde	11552 Apr 24 05:28	21° \mathbb{B} 05'58		max. Earth dist.	11558 Mar 15 04:07	29° \mathbb{H} 54'07	10.44852 AU
opposition	11552 Jun 30 17:38	17° \mathbb{B} 41'12	2°18'16		11558 Mar 15 22:59	0° \mathbb{Y}	
min. Earth dist.	11552 Jun 30 23:09	17° \mathbb{B} 40'06	8.36974 AU	morning rise	11558 Apr 01 23:03	2° \mathbb{Y} 06'47	
direct	11552 Sep 06 19:55	14° \mathbb{B} 14'44		retrograde	11558 Jul 12 04:50	9° \mathbb{Y} 41'00	
evening set	11552 Dec 20 06:22	22° \mathbb{B} 06'17		opposition	11558 Sep 17 23:29	6° \mathbb{Y} 19'16	0°21'57
				min. Earth dist.	11558 Sep 18 07:26	6° \mathbb{Y} 17'42	8.46594 AU
conjunction	11553 Jan 07 00:04	24° \mathbb{B} 18'59	1°50'13	direct	11558 Nov 26 11:51	2° \mathbb{Y} 53'17	
minimum elong	11553 Jan 07 00:05	24° \mathbb{B} 18'59	1°50'55	evening set	11559 Mar 11 12:04	10° \mathbb{Y} 40'13	
max. Earth dist.	11553 Jan 06 15:21	24° \mathbb{B} 16'15	10.36647 AU				
morning rise	11553 Jan 24 16:39	26° \mathbb{B} 31'22		conjunction	11559 Mar 28 21:06	12° \mathbb{Y} 49'25	0°05'11
	11553 Feb 23 18:58	0° \approx		minimum elong	11559 Mar 28 21:07	12° \mathbb{Y} 49'25	0°05'05
retrograde	11553 May 07 15:52	4° \approx 17'46		behind sun begin	11559 Mar 28 14:11	12° \mathbb{Y} 47'17	
opposition	11553 Jul 14 02:09	0° \approx 53'31	2°13'23	behind sun end	11559 Mar 29 04:04	12° \mathbb{Y} 51'34	
min. Earth dist.	11553 Jul 14 09:22	0° \approx 52'04	8.36755 AU	max. Earth dist.	11559 Mar 28 11:52	12° \mathbb{Y} 46'33	10.48432 AU
	11553 Jul 25 08:38	30° \mathbb{R} \mathbb{B}		morning rise	11559 Apr 15 03:08	14° \mathbb{Y} 57'43	
direct	11553 Sep 20 10:28	27° \mathbb{B} 26'44		desc. node	11559 Jun 15 08:58	21° \mathbb{Y} 06'37	
	11553 Nov 14 21:23	0° \approx		retrograde	11559 Jul 25 04:44	22° \mathbb{Y} 29'21	
evening set	11554 Jan 03 05:03	5° \approx 19'47		opposition	11559 Oct 01 06:31	19° \mathbb{Y} 07'54	-0°08'54
				min. Earth dist.	11559 Oct 01 12:43	19° \mathbb{Y} 06'41	8.50339 AU
conjunction	11554 Jan 20 22:16	7° \approx 32'25	1°43'22	direct	11559 Dec 10 00:20	15° \mathbb{Y} 42'28	
minimum elong	11554 Jan 20 22:17	7° \approx 32'25	1°44'00	evening set	11560 Mar 23 16:29	23° \mathbb{Y} 26'02	
max. Earth dist.	11554 Jan 20 11:59	7° \approx 29'11	10.36782 AU				
morning rise	11554 Feb 07 13:38	9° \approx 44'31		conjunction	11560 Apr 09 22:56	25° \mathbb{Y} 34'01	-0°19'41
	11554 Mar 28 03:21	15° \approx		minimum elong	11560 Apr 09 22:55	25° \mathbb{Y} 34'01	0°19'57
retrograde	11554 May 21 02:57	17° \approx 29'08		max. Earth dist.	11560 Apr 09 16:10	25° \mathbb{Y} 31'55	10.52306 AU
	11554 Jul 15 22:14	15° \mathbb{R} \approx		morning rise	11560 Apr 27 02:24	27° \mathbb{Y} 41'09	
opposition	11554 Jul 27 11:14	14° \approx 05'25	2°01'26		11560 May 16 19:34	0° \mathbb{B}	
min. Earth dist.	11554 Jul 27 19:06	14° \approx 03'51	8.37231 AU	retrograde	11560 Aug 06 04:04	5° \mathbb{B} 10'33	
direct	11554 Oct 04 00:55	10° \approx 38'31		opposition	11560 Oct 13 12:12	1° \mathbb{B} 49'18	-0°39'01
	11554 Dec 17 10:34	15° \approx		min. Earth dist.	11560 Oct 13 16:20	1° \mathbb{B} 48'30	8.54299 AU
evening set	11555 Jan 17 02:34	18° \approx 32'11			11560 Nov 07 09:04	30° \mathbb{R} \mathbb{Y}	
				direct	11560 Dec 22 09:35	28° \mathbb{Y} 24'30	

	11561 Feb 04 08:51	0°♄	direct	11567 Mar 09 04:45	12°♄32'49	
evening set	11561 Apr 05 16:38	6°♄04'24	evening set	11567 Jun 18 18:57	19°♄53'44	
conjunction	11561 Apr 22 20:21	8°♄11'08 -0°43'19	conjunction	11567 Jul 05 13:34	21°♄55'48 -1°51'33	
minimum elong	11561 Apr 22 20:19	8°♄11'07 0°43'44	minimum elong	11567 Jul 05 13:35	21°♄55'48 1°52'17	
max. Earth dist.	11561 Apr 22 16:14	8°♄09'52 10.56290 AU	max. Earth dist.	11567 Jul 05 21:41	21°♄58'17 10.72703 AU	
morning rise	11561 May 09 21:18	10°♄17'06	morning rise	11567 Jul 22 09:20	23°♄58'12	
	11561 Jun 22 10:21	15°♄		11567 Sep 21 20:43	0°♄	
retrograde	11561 Aug 19 01:46	17°♄44'40	retrograde	11567 Nov 02 10:52	1°♄24'46	
	11561 Oct 18 18:02	15°♄♄		11567 Dec 15 00:35	30°♄♄	
opposition	11561 Oct 26 16:25	14°♄23'33 -1°06'58	opposition	11568 Jan 11 11:36	28°♄02'58 -2°14'50	
min. Earth dist.	11561 Oct 26 18:46	14°♄23'06 8.58291 AU	min. Earth dist.	11568 Jan 11 04:01	28°♄04'24 8.73099 AU	
direct	11562 Jan 04 14:32	10°♄59'26	direct	11568 Mar 20 19:10	24°♄42'35	
	11562 Mar 17 14:53	15°♄		11568 Jun 12 11:36	0°♄	
evening set	11562 Apr 18 12:38	18°♄35'36	evening set	11568 Jun 30 01:10	2°♄01'46	
conjunction	11562 May 05 13:36	20°♄41'06 -1°04'42	conjunction	11568 Jul 16 20:38	4°♄03'58 -1°46'24	
minimum elong	11562 May 05 13:34	20°♄41'05 1°05'14	minimum elong	11568 Jul 16 20:40	4°♄03'58 1°47'04	
max. Earth dist.	11562 May 05 11:28	20°♄40'27 10.60197 AU	max. Earth dist.	11568 Jul 17 05:41	4°♄06'43 10.73034 AU	
morning rise	11562 May 22 12:22	22°♄45'59	morning rise	11568 Aug 02 18:01	6°♄06'40	
	11562 Aug 16 13:07	0°♄♄	retrograde	11568 Nov 14 03:37	13°♄34'31	
retrograde	11562 Aug 31 20:25	0°♄♄12'11	opposition	11569 Jan 23 07:15	10°♄12'19 -2°05'28	
	11562 Sep 16 05:44	30°♄♄	min. Earth dist.	11569 Jan 22 22:55	10°♄13'54 8.73003 AU	
opposition	11562 Nov 08 19:04	26°♄51'09 -1°31'30	direct	11569 Apr 02 10:36	6°♄52'12	
min. Earth dist.	11562 Nov 08 20:07	26°♄50'57 8.62115 AU	evening set	11569 Jul 12 07:47	14°♄10'16	
direct	11563 Jan 17 17:41	23°♄27'45		11569 Jul 19 05:18	15°♄	
	11563 Apr 22 18:10	0°♄♄				
evening set	11563 May 01 04:58	1°♄♄00'18	conjunction	11569 Jul 29 04:57	16°♄12'54 -1°36'30	
			minimum elong	11569 Jul 29 04:59	16°♄12'54 1°37'04	
conjunction	11563 May 18 03:23	3°♄♄04'39 -1°22'53	max. Earth dist.	11569 Jul 29 15:29	16°♄16'06 10.72544 AU	
minimum elong	11563 May 18 03:20	3°♄♄04'38 1°23'30	morning rise	11569 Aug 15 04:26	18°♄16'10	
max. Earth dist.	11563 May 18 02:47	3°♄♄04'28 10.63835 AU	retrograde	11569 Nov 26 23:02	25°♄45'32	
morning rise	11563 Jun 04 00:22	5°♄♄08'34	opposition	11570 Feb 05 02:13	22°♄22'54 -1°50'29	
retrograde	11563 Sep 13 13:53	12°♄♄33'56	min. Earth dist.	11570 Feb 04 16:46	22°♄24'42 8.72082 AU	
opposition	11563 Nov 21 20:07	9°♄♄12'55 -1°51'33	direct	11570 Apr 15 00:22	19°♄02'55	
min. Earth dist.	11563 Nov 21 19:20	9°♄♄13'04 8.65585 AU	evening set	11570 Jul 24 15:42	26°♄20'32	
direct	11564 Jan 30 19:03	5°♄♄50'14				
evening set	11564 May 12 17:54	13°♄♄19'21	conjunction	11570 Aug 10 15:07	28°♄23'50 -1°22'13	
			minimum elong	11570 Aug 10 15:09	28°♄23'51 1°22'40	
conjunction	11564 May 29 14:21	15°♄♄22'45 -1°37'07	max. Earth dist.	11570 Aug 11 02:47	28°♄27'23 10.71244 AU	
minimum elong	11564 May 29 14:19	15°♄♄22'44 1°37'49		11570 Aug 23 19:54	0°♄♄	
max. Earth dist.	11564 May 29 16:06	15°♄♄23'17 10.67039 AU	morning rise	11570 Aug 27 17:05	0°♄♄27'55	
morning rise	11564 Jun 15 10:02	17°♄♄25'54	retrograde	11570 Dec 09 19:56	7°♄♄59'03	
retrograde	11564 Sep 25 07:06	24°♄♄50'56	opposition	11571 Feb 17 21:12	4°♄♄35'56 -1°30'29	
opposition	11564 Dec 03 19:47	21°♄♄29'49 -2°06'20	min. Earth dist.	11571 Feb 17 11:16	4°♄♄37'50 8.70362 AU	
min. Earth dist.	11564 Dec 03 16:35	21°♄♄30'25 8.68539 AU	direct	11571 Apr 27 12:24	1°♄♄15'56	
direct	11565 Feb 11 16:46	18°♄♄07'51	evening set	11571 Aug 06 01:38	8°♄♄33'48	
evening set	11565 May 25 03:54	25°♄♄33'47				
			conjunction	11571 Aug 23 03:32	10°♄♄37'57 -1°04'11	
conjunction	11565 Jun 10 23:08	27°♄♄36'28 -1°46'51	minimum elong	11571 Aug 23 03:34	10°♄♄37'58 1°04'30	
minimum elong	11565 Jun 10 23:07	27°♄♄36'28 1°47'35	max. Earth dist.	11571 Aug 23 15:03	10°♄♄41'28 10.69168 AU	
max. Earth dist.	11565 Jun 11 03:54	27°♄♄37'56 10.69657 AU	morning rise	11571 Sep 09 08:24	12°♄♄43'00	
morning rise	11565 Jun 27 18:03	29°♄♄39'05	retrograde	11571 Dec 22 17:38	20°♄♄16'09	
	11565 Jun 30 16:06	0°♄♄	opposition	11572 Mar 01 16:25	16°♄♄52'32 -1°06'16	
retrograde	11565 Oct 08 00:04	7°♄♄04'16	min. Earth dist.	11572 Mar 01 07:07	16°♄♄54'19 8.67884 AU	
opposition	11565 Dec 16 18:05	3°♄♄42'58 -2°15'19	direct	11572 May 09 02:16	13°♄♄32'18	
min. Earth dist.	11565 Dec 16 12:33	3°♄♄44'01 8.70832 AU	evening set	11572 Aug 17 14:35	20°♄♄51'14	
direct	11566 Feb 24 12:12	0°♄♄21'39				
evening set	11566 Jun 06 12:04	7°♄♄44'50	conjunction	11572 Sep 03 19:11	22°♄♄56'24 -0°43'07	
			minimum elong	11572 Sep 03 19:12	22°♄♄56'24 0°43'17	
conjunction	11566 Jun 23 06:41	9°♄♄47'05 -1°51'43	max. Earth dist.	11572 Sep 04 05:03	22°♄♄59'25 10.66353 AU	
minimum elong	11566 Jun 23 06:41	9°♄♄47'04 1°52'27	morning rise	11572 Sep 21 03:10	25°♄♄02'33	
max. Earth dist.	11566 Jun 23 13:40	9°♄♄49'13 10.71566 AU		11572 Nov 07 01:32	0°♄♄	
morning rise	11566 Jul 10 01:34	11°♄♄49'25	retrograde	11573 Jan 03 17:29	2°♄♄37'52	
retrograde	11566 Oct 20 17:56	19°♄♄15'07		11573 Mar 04 10:34	30°♄♄♄	
opposition	11566 Dec 29 15:11	15°♄♄53'36 -2°18'10	opposition	11573 Mar 14 11:56	29°♄♄13'46 -0°38'51	
min. Earth dist.	11566 Dec 29 08:23	15°♄♄54'53 8.72368 AU	min. Earth dist.	11573 Mar 14 04:19	29°♄♄15'14 8.64689 AU	

direct	11573 May 21 16:18	25° \mathbb{M} 53'05	opposition	11579 May 30 11:12	15° \mathbb{X} 38'00	1°59'49
	11573 Aug 01 14:14	0° \mathbb{A}	min. Earth dist.	11579 May 30 13:20	15° \mathbb{X} 37'34	8.41106 AU
evening set	11573 Aug 30 07:07	3° \mathbb{A} 13'58	direct	11579 Aug 06 05:46	12° \mathbb{X} 12'41	
			evening set	11579 Nov 17 08:30	19° \mathbb{X} 56'29	
conjunction	11573 Sep 16 14:34	5° \mathbb{A} 20'17 -0°19'56	conjunction	11579 Dec 05 02:17	22° \mathbb{X} 08'34	1°42'22
minimum elong	11573 Sep 16 14:35	5° \mathbb{A} 20'17 0°19'56	minimum elong	11579 Dec 05 02:16	22° \mathbb{X} 08'34	1°43'06
max. Earth dist.	11573 Sep 16 22:52	5° \mathbb{A} 22'48 10.62847 AU	max. Earth dist.	11579 Dec 04 22:21	22° \mathbb{X} 07'21	10.39606 AU
morning rise	11573 Oct 04 01:28	7° \mathbb{A} 27'36	morning rise	11579 Dec 22 20:40	24° \mathbb{X} 20'52	
retrograde	11574 Jan 16 18:36	15° \mathbb{A} 05'20		11580 Feb 14 08:55	0° \mathbb{B}	
opposition	11574 Mar 27 08:18	11° \mathbb{A} 40'45 -0°09'25	retrograde	11580 Apr 04 19:49	2° \mathbb{B} 09'09	
min. Earth dist.	11574 Mar 27 01:58	11° \mathbb{A} 41'59 8.60875 AU		11580 May 26 08:59	30° \mathbb{R} \mathbb{X}	
direct	11574 Jun 03 08:15	8° \mathbb{A} 19'32	opposition	11580 Jun 11 16:28	28° \mathbb{X} 43'27	2°12'25
asc. node	11574 Jul 22 15:10	10° \mathbb{A} 22'41	min. Earth dist.	11580 Jun 11 19:53	28° \mathbb{X} 42'46	8.38508 AU
evening set	11574 Sep 12 03:47	15° \mathbb{A} 43'11	direct	11580 Aug 18 13:50	25° \mathbb{X} 17'24	
				11580 Nov 03 18:07	0° \mathbb{B}	
conjunction	11574 Sep 29 14:00	17° \mathbb{A} 50'41 0°04'28	evening set	11580 Nov 30 05:41	3° \mathbb{B} 04'51	
minimum elong	11574 Sep 29 14:00	17° \mathbb{A} 50'41 0°04'37				
behind sun begin	11574 Sep 29 06:59	17° \mathbb{A} 48'33	conjunction	11580 Dec 17 23:47	5° \mathbb{B} 17'21	1°49'47
behind sun end	11574 Sep 29 21:01	17° \mathbb{A} 52'49	minimum elong	11580 Dec 17 23:46	5° \mathbb{B} 17'21	1°50'32
max. Earth dist.	11574 Sep 29 21:16	17° \mathbb{A} 52'54 10.58813 AU	max. Earth dist.	11580 Dec 17 18:19	5° \mathbb{B} 15'38	10.37374 AU
morning rise	11574 Oct 17 03:23	19° \mathbb{A} 59'09	morning rise	11581 Jan 04 17:34	7° \mathbb{B} 29'50	
retrograde	11575 Jan 29 21:39	27° \mathbb{A} 39'27	retrograde	11581 Apr 18 07:39	15° \mathbb{B} 17'56	
opposition	11575 Apr 09 05:51	24° \mathbb{A} 14'25 0°20'46	opposition	11581 Jun 24 23:02	11° \mathbb{B} 52'30	2°18'09
min. Earth dist.	11575 Apr 09 00:25	24° \mathbb{A} 15'29 8.56680 AU	min. Earth dist.	11581 Jun 25 03:41	11° \mathbb{B} 51'34	8.36713 AU
direct	11575 Jun 16 03:25	20° \mathbb{A} 52'32	direct	11581 Sep 01 00:23	8° \mathbb{B} 25'48	
evening set	11575 Sep 25 05:17	28° \mathbb{A} 19'37	evening set	11581 Dec 14 04:13	16° \mathbb{B} 16'12	
	11575 Oct 08 22:07	0° \mathbb{M}				
conjunction	11575 Oct 12 17:58	0° \mathbb{M} 28'18 0°28'43	conjunction	11581 Dec 31 22:15	18° \mathbb{B} 28'56	1°51'28
minimum elong	11575 Oct 12 17:57	0° \mathbb{M} 28'18 0°29'01	minimum elong	11581 Dec 31 22:15	18° \mathbb{B} 28'56	1°52'12
max. Earth dist.	11575 Oct 12 23:58	0° \mathbb{M} 30'09 10.54525 AU	max. Earth dist.	11581 Dec 31 14:59	18° \mathbb{B} 26'39	10.36014 AU
morning rise	11575 Oct 30 09:22	2° \mathbb{M} 37'51	morning rise	11582 Jan 18 15:09	20° \mathbb{B} 41'25	
retrograde	11576 Feb 12 04:47	10° \mathbb{M} 20'33	retrograde	11582 May 01 19:38	28° \mathbb{B} 28'36	
opposition	11576 Apr 21 04:44	6° \mathbb{M} 55'09 0°50'14	opposition	11582 Jul 08 06:52	25° \mathbb{B} 03'33	2°16'37
min. Earth dist.	11576 Apr 21 00:29	6° \mathbb{M} 55'59 8.52378 AU	min. Earth dist.	11582 Jul 08 13:00	25° \mathbb{B} 02'20	8.35821 AU
direct	11576 Jun 27 22:44	3° \mathbb{M} 32'28	direct	11582 Sep 14 12:17	21° \mathbb{B} 36'23	
evening set	11576 Oct 07 11:42	11° \mathbb{M} 03'30	evening set	11582 Dec 28 02:56	29° \mathbb{B} 28'49	
				11583 Jan 01 07:51	0° \mathbb{A}	
conjunction	11576 Oct 25 02:19	13° \mathbb{M} 13'16 0°51'48	conjunction	11583 Jan 14 20:32	1° \mathbb{A} 41'36	1°47'17
minimum elong	11576 Oct 25 02:17	13° \mathbb{M} 13'15 0°52'15	minimum elong	11583 Jan 14 20:33	1° \mathbb{A} 41'36	1°47'57
max. Earth dist.	11576 Oct 25 05:55	13° \mathbb{M} 14'22 10.50243 AU	max. Earth dist.	11583 Jan 14 11:24	1° \mathbb{A} 38'44	10.35601 AU
	11576 Nov 08 13:01	15° \mathbb{M}	morning rise	11583 Feb 01 12:27	3° \mathbb{A} 53'55	
morning rise	11576 Nov 11 19:19	15° \mathbb{M} 23'47	retrograde	11583 May 15 06:59	11° \mathbb{A} 39'30	
retrograde	11577 Feb 24 13:25	23° \mathbb{M} 08'37	opposition	11583 Jul 21 15:32	8° \mathbb{A} 14'58	2°07'53
opposition	11577 May 04 05:16	19° \mathbb{M} 42'56 1°17'30	min. Earth dist.	11583 Jul 21 23:13	8° \mathbb{A} 13'25	8.35878 AU
min. Earth dist.	11577 May 04 03:07	19° \mathbb{M} 43'22 8.48208 AU	direct	11583 Sep 28 02:06	4° \mathbb{A} 47'31	
direct	11577 Jul 10 21:07	16° \mathbb{M} 19'23	evening set	11584 Jan 11 00:59	12° \mathbb{A} 41'02	
evening set	11577 Oct 20 22:46	23° \mathbb{M} 54'43				
conjunction	11577 Nov 07 14:46	26° \mathbb{M} 05'24 1°12'30	conjunction	11584 Jan 28 17:49	14° \mathbb{A} 53'37	1°37'27
minimum elong	11577 Nov 07 14:44	26° \mathbb{M} 05'23 1°13'04	minimum elong	11584 Jan 28 17:51	14° \mathbb{A} 53'38	1°38'01
max. Earth dist.	11577 Nov 07 15:25	26° \mathbb{M} 05'36 10.46193 AU	max. Earth dist.	11584 Jan 28 06:58	14° \mathbb{A} 50'12	10.36157 AU
morning rise	11577 Nov 25 08:47	28° \mathbb{M} 16'42		11584 Jan 29 14:07	15° \mathbb{A}	
	11577 Dec 09 21:10	0° \mathbb{X}	morning rise	11584 Feb 15 08:32	17° \mathbb{A} 05'35	
retrograde	11578 Mar 09 21:55	6° \mathbb{X} 03'16	retrograde	11584 May 27 15:55	24° \mathbb{A} 49'01	
opposition	11578 May 17 07:26	2° \mathbb{X} 37'28 1°41'09	opposition	11584 Aug 03 00:33	21° \mathbb{A} 25'04	1°52'26
min. Earth dist.	11578 May 17 07:36	2° \mathbb{X} 37'26 8.44387 AU	min. Earth dist.	11584 Aug 03 09:08	21° \mathbb{A} 23'21	8.36886 AU
	11578 Jun 24 00:31	30° \mathbb{R} \mathbb{M}	direct	11584 Oct 10 17:46	17° \mathbb{A} 57'35	
direct	11578 Jul 24 00:18	29° \mathbb{M} 13'01	evening set	11585 Jan 23 21:11	25° \mathbb{A} 51'10	
	11578 Aug 22 18:53	0° \mathbb{X}				
evening set	11578 Nov 03 13:56	6° \mathbb{X} 52'42	conjunction	11585 Feb 10 12:58	28° \mathbb{A} 03'22	1°22'31
			minimum elong	11585 Feb 10 13:00	28° \mathbb{A} 03'22	1°22'58
conjunction	11578 Nov 21 07:00	9° \mathbb{X} 04'10 1°29'41	max. Earth dist.	11585 Feb 10 01:38	27° \mathbb{A} 59'48	10.37659 AU
minimum elong	11578 Nov 21 06:58	9° \mathbb{X} 04'09 1°30'21		11585 Feb 26 02:13	0° \mathbb{H}	
max. Earth dist.	11578 Nov 21 05:02	9° \mathbb{X} 03'33 10.42590 AU	morning rise	11585 Feb 28 02:12	0° \mathbb{H} 14'48	
morning rise	11578 Dec 09 01:28	11° \mathbb{X} 16'03	retrograde	11585 Jun 09 23:10	7° \mathbb{H} 55'43	
retrograde	11579 Mar 23 08:11	19° \mathbb{X} 03'48	opposition	11585 Aug 16 09:50	4° \mathbb{H} 32'24	1°31'08

min. Earth dist.	11585 Aug 16 18:08	4° X 30'45	8.38801 AU	opposition	11591 Nov 03 02:05	21° C 20'38	-1°20'27
direct	11585 Oct 24 09:56	1° X 05'09		min. Earth dist.	11591 Nov 03 03:09	21° C 20'26	8.61381 AU
evening set	11586 Feb 06 14:34	8° X 57'46		direct	11592 Jan 12 01:12	17° C 57'28	
				evening set	11592 Apr 24 17:19	25° C 31'41	
conjunction	11586 Feb 24 05:00	11° X 09'21	1°03'21				
minimum elong	11586 Feb 24 05:02	11° X 09'21	1°03'40	conjunction	11592 May 11 16:57	27° C 36'30	-1°14'46
max. Earth dist.	11586 Feb 23 18:27	11° X 06'02	10.40027 AU	minimum elong	11592 May 11 16:55	27° C 36'29	1°15'22
morning rise	11586 Mar 13 16:26	13° X 20'03		max. Earth dist.	11592 May 11 16:28	27° C 36'21	10.63252 AU
retrograde	11586 Jun 23 06:18	20° X 58'17		morning rise	11592 May 28 14:38	29° C 40'47	
opposition	11586 Aug 29 18:49	17° X 35'36	1°05'13		11592 May 31 06:35	0° II	
min. Earth dist.	11586 Aug 30 02:22	17° X 34'06	8.41523 AU	retrograde	11592 Sep 07 02:51	7° II 06'27	
direct	11586 Nov 06 23:58	14° X 08'47		opposition	11592 Nov 15 04:11	3° II 45'59	-1°42'41
evening set	11587 Feb 20 04:56	21° X 59'35		min. Earth dist.	11592 Nov 15 03:29	3° II 46'07	8.65094 AU
				direct	11593 Jan 24 03:06	0° II 23'33	
conjunction	11587 Mar 09 17:35	24° X 10'21	0°41'01	evening set	11593 May 07 08:06	7° II 54'11	
minimum elong	11587 Mar 09 17:37	24° X 10'21	0°41'10				
max. Earth dist.	11587 Mar 09 08:18	24° X 07'26	10.43129 AU	conjunction	11593 May 24 05:30	9° II 57'57	-1°30'55
morning rise	11587 Mar 27 02:54	26° X 20'10		minimum elong	11593 May 24 05:28	9° II 57'57	1°31'35
	11587 Apr 28 04:34	0° Y		max. Earth dist.	11593 May 24 06:41	9° II 58'19	10.66630 AU
retrograde	11587 Jul 06 11:07	3° Y 55'36		morning rise	11593 Jun 10 01:33	12° II 01'23	
opposition	11587 Sep 12 03:11	0° Y 33'33	0°36'10	retrograde	11593 Sep 19 21:16	19° II 26'29	
min. Earth dist.	11587 Sep 12 09:58	0° Y 32'13	8.44907 AU	opposition	11593 Nov 28 04:42	16° II 05'58	-1°59'59
	11587 Sep 19 06:53	30° R X		min. Earth dist.	11593 Nov 28 03:02	16° II 06'17	8.68146 AU
direct	11587 Nov 20 13:07	27° X 07'19		direct	11594 Feb 06 00:30	12° II 44'11	
	11588 Jan 19 09:40	0° Y		evening set	11594 May 19 19:54	20° II 11'39	
evening set	11588 Mar 04 15:41	4° Y 55'36					
conjunction	11588 Mar 22 02:04	7° Y 05'20	0°16'47	conjunction	11594 Jun 05 15:35	22° II 14'38	-1°42'47
minimum elong	11588 Mar 22 02:04	7° Y 05'21	0°16'46	minimum elong	11594 Jun 05 15:33	22° II 14'37	1°43'30
max. Earth dist.	11588 Mar 21 18:01	7° Y 02'50	10.46801 AU	max. Earth dist.	11594 Jun 05 17:43	22° II 15'17	10.69258 AU
morning rise	11588 Apr 08 09:03	9° Y 14'08		morning rise	11594 Jun 22 10:46	24° II 17'27	
retrograde	11588 Jul 18 13:13	16° Y 46'55			11594 Aug 18 00:09	0° C	
opposition	11588 Sep 24 10:56	13° Y 25'26	0°05'31	retrograde	11594 Oct 02 13:19	1° C 42'37	
min. Earth dist.	11588 Sep 24 17:11	13° Y 24'13	8.48788 AU		11594 Nov 18 15:06	30° R II	
desc. node	11588 Nov 30 05:11	10° Y 00'19		opposition	11594 Dec 11 04:02	28° II 21'55	-2°11'43
direct	11588 Dec 03 01:24	9° Y 59'54		min. Earth dist.	11594 Dec 11 01:25	28° II 22'25	8.70384 AU
evening set	11589 Mar 17 22:16	17° Y 45'04		direct	11595 Feb 18 22:24	25° II 00'41	
					11595 May 11 03:35	0° C	
conjunction	11589 Apr 04 05:57	19° Y 53'37	-0°08'12	evening set	11595 Jun 01 05:22	2° C 25'26	
minimum elong	11589 Apr 04 05:56	19° Y 53'37	0°08'23				
behind sun begin	11589 Apr 03 23:40	19° Y 51'41		conjunction	11595 Jun 18 00:02	4° C 27'52	-1°49'56
behind sun end	11589 Apr 04 12:13	19° Y 55'33		minimum elong	11595 Jun 18 00:02	4° C 27'52	1°50'41
max. Earth dist.	11589 Apr 03 22:51	19° Y 51'26	10.50864 AU	max. Earth dist.	11595 Jun 18 03:36	4° C 28'57	10.71058 AU
morning rise	11589 Apr 21 10:34	22° Y 01'17		morning rise	11595 Jul 04 18:58	6° C 30'21	
retrograde	11589 Jul 31 13:31	29° Y 31'42		retrograde	11595 Oct 15 06:39	13° C 56'05	
opposition	11589 Oct 07 17:31	26° Y 10'40	-0°25'06	opposition	11595 Dec 24 02:17	10° C 35'02	-2°17'26
min. Earth dist.	11589 Oct 07 22:42	26° Y 09'40	8.52978 AU	min. Earth dist.	11595 Dec 23 21:55	10° C 35'52	8.71779 AU
direct	11589 Dec 16 11:34	22° Y 45'55		direct	11596 Mar 02 17:58	7° C 14'14	
	11590 Mar 27 05:23	0° C		evening set	11596 Jun 12 13:11	14° C 36'37	
evening set	11590 Mar 31 00:45	0° C 27'35					
conjunction	11590 Apr 17 05:37	2° C 34'52	-0°32'28	conjunction	11596 Jun 29 07:46	16° C 38'49	-1°52'06
minimum elong	11590 Apr 17 05:36	2° C 34'52	0°32'49	minimum elong	11596 Jun 29 07:46	16° C 38'49	1°52'51
max. Earth dist.	11590 Apr 17 00:01	2° C 33'08	10.55116 AU	max. Earth dist.	11596 Jun 29 13:47	16° C 40'40	10.72028 AU
morning rise	11590 May 04 07:53	4° C 41'22		morning rise	11596 Jul 16 03:06	18° C 41'15	
retrograde	11590 Aug 13 10:52	12° C 09'43		retrograde	11596 Oct 27 00:43	26° C 07'54	
opposition	11590 Oct 20 22:30	8° C 49'02	-0°54'13	opposition	11597 Jan 04 23:31	22° C 46'21	-2°16'58
min. Earth dist.	11590 Oct 21 01:56	8° C 48'22	8.57257 AU	min. Earth dist.	11597 Jan 04 17:10	22° C 47'33	8.72333 AU
direct	11590 Dec 29 19:16	5° C 25'03		direct	11597 Mar 15 10:14	19° C 25'50	
evening set	11591 Apr 12 23:04	13° C 03'02		evening set	11597 Jun 24 20:04	26° C 46'19	
	11591 Apr 28 19:59	15° C					
conjunction	11591 Apr 30 01:14	15° C 09'03	-0°55'00	conjunction	11597 Jul 11 15:19	28° C 48'34	-1°49'15
minimum elong	11591 Apr 30 01:12	15° C 09'03	0°55'29	minimum elong	11597 Jul 11 15:20	28° C 48'35	1°49'57
max. Earth dist.	11591 Apr 29 21:55	15° C 08'02	10.59329 AU	max. Earth dist.	11597 Jul 11 23:24	28° C 51'02	10.72166 AU
morning rise	11591 May 17 01:06	17° C 14'24			11597 Jul 21 09:39	0° C	
retrograde	11591 Aug 26 06:45	24° C 41'10		morning rise	11597 Jul 28 11:49	0° C 51'14	
				retrograde	11597 Nov 08 18:36	8° C 19'06	
				opposition	11598 Jan 17 19:57	4° C 56'58	-2°10'22
				min. Earth dist.	11598 Jan 17 12:20	4° C 58'25	8.72044 AU

direct	11598 Mar 28 01:45	1°Ω36'34	
evening set	11598 Jul 07 03:02	8°Ω55'44	
conjunction	11598 Jul 23 23:27	10°Ω58'20	-1°41'29
minimum elong	11598 Jul 23 23:29	10°Ω58'21	1°42'06
max. Earth dist.	11598 Jul 24 08:23	11°Ω01'03	10.71480 AU
morning rise	11598 Aug 09 21:52	13°Ω01'30	
	11598 Aug 26 23:15	15°Ω	
retrograde	11598 Nov 21 13:49	20°Ω30'51	
opposition	11599 Jan 30 15:49	17°Ω08'06	-1°57'54
min. Earth dist.	11599 Jan 30 07:57	17°Ω09'36	8.70942 AU
	11599 Mar 02 01:09	15°κΩ	
direct	11599 Apr 09 15:40	13°Ω47'40	
	11599 May 17 09:53	15°Ω	
evening set	11599 Jul 19 10:44	21°Ω06'11	
conjunction	11599 Aug 05 09:00	23°Ω09'22	-1°29'08
minimum elong	11599 Aug 05 09:02	23°Ω09'23	1°29'38
max. Earth dist.	11599 Aug 05 18:05	23°Ω12'08	10.70021 AU
morning rise	11599 Aug 22 09:57	25°Ω13'18	
	11599 Oct 06 10:00	0°η	
retrograde	11599 Dec 04 09:09	2°η44'26	
	11600 Feb 03 22:38	30°κΩ	
opposition	11600 Feb 12 11:28	29°Ω21'01	-1°40'05
min. Earth dist.	11600 Feb 12 03:30	29°Ω22'33	8.69089 AU
direct	11600 Apr 21 05:13	26°Ω00'26	
	11600 Jul 01 05:22	0°η	
evening set	11600 Jul 30 19:59	3°η19'01	
conjunction	11600 Aug 16 20:45	5°η23'01	-1°12'42
minimum elong	11600 Aug 16 20:47	5°η23'02	1°13'04
max. Earth dist.	11600 Aug 17 06:32	5°η26'00	10.67843 AU
morning rise	11600 Sep 03 00:32	7°η27'54	
retrograde	11600 Dec 16 05:38	15°η01'05	
opposition	11601 Feb 24 07:02	11°η37'01	-1°17'37
min. Earth dist.	11601 Feb 23 22:41	11°η38'38	8.66548 AU
direct	11601 May 03 20:37	8°η16'10	
evening set	11601 Aug 12 07:55	15°η35'34	
conjunction	11601 Aug 29 11:31	17°η40'36	-0°52'52
minimum elong	11601 Aug 29 11:33	17°η40'36	0°53'04
max. Earth dist.	11601 Aug 29 21:55	17°η43'46	10.65016 AU
morning rise	11601 Sep 15 18:10	19°η46'32	
retrograde	11601 Dec 29 05:48	27°η21'57	