

retrograde	11100 Mar 07 07:40	25° \mathbb{M} 38'37		retrograde	11105 Aug 07 20:40	29° Υ 54'01	
min. Earth dist.	11100 May 04 06:36	20° \mathbb{M} 48'02	4.06477 AU	opposition	11105 Oct 07 21:37	25° Υ 00'48	-0°09'52
opposition	11100 May 05 22:21	20° \mathbb{M} 34'33	0°35'28	min. Earth dist.	11105 Oct 09 09:06	24° Υ 49'28	4.42761 AU
direct	11100 Jul 03 14:02	15° \mathbb{M} 36'47		direct	11105 Dec 09 09:21	20° Υ 00'06	
	11100 Oct 17 13:02	0° \mathbb{A}			11106 Mar 08 05:58	0° \mathbb{B}	
evening set	11100 Nov 07 07:25	4° \mathbb{A} 39'35		evening set	11106 Apr 13 11:04	7° \mathbb{B} 35'03	
				max. Earth dist.	11106 Apr 23 22:32	9° \mathbb{B} 54'04	6.36210 AU
conjunction	11100 Nov 20 21:20	7° \mathbb{A} 46'20	0°32'41	conjunction	11106 Apr 26 06:30	10° \mathbb{B} 25'08	-0°17'29
minimum elong	11100 Nov 20 21:19	7° \mathbb{A} 46'19	0°33'16	minimum elong	11106 Apr 26 06:29	10° \mathbb{B} 25'07	0°17'52
max. Earth dist.	11100 Nov 23 07:11	8° \mathbb{A} 19'31	6.15105 AU	morning rise	11106 May 09 00:50	13° \mathbb{B} 14'54	
morning rise	11100 Dec 04 11:48	10° \mathbb{A} 52'56			11106 May 17 00:18	15° \mathbb{B}	
retrograde	11101 Apr 09 17:49	29° \mathbb{A} 32'41			11106 Aug 16 15:16	0° \mathbb{I}	
min. Earth dist.	11101 Jun 07 10:40	24° \mathbb{A} 41'02	4.23913 AU	retrograde	11106 Sep 09 07:56	0° \mathbb{I} 51'58	
opposition	11101 Jun 08 19:38	24° \mathbb{A} 29'59	0°57'19		11106 Oct 03 00:15	30° \mathbb{R} \mathbb{B}	
direct	11101 Aug 07 17:43	19° \mathbb{A} 30'15		opposition	11106 Nov 09 02:28	25° \mathbb{B} 58'33	-0°39'47
	11101 Nov 05 12:02	0° \mathbb{B}		min. Earth dist.	11106 Nov 10 18:37	25° \mathbb{B} 45'38	4.28309 AU
evening set	11101 Dec 11 19:30	7° \mathbb{B} 39'21		direct	11107 Jan 09 19:06	20° \mathbb{B} 59'00	
conjunction	11101 Dec 25 06:06	10° \mathbb{B} 37'13	0°41'31		11107 Apr 01 20:30	0° \mathbb{I}	
minimum elong	11101 Dec 25 06:06	10° \mathbb{B} 37'13	0°42'10	evening set	11107 May 15 07:44	9° \mathbb{I} 19'02	
max. Earth dist.	11101 Dec 26 22:48	10° \mathbb{B} 59'41	6.32359 AU	max. Earth dist.	11107 May 25 22:11	11° \mathbb{I} 45'03	6.19675 AU
morning rise	11102 Jan 07 15:42	13° \mathbb{B} 34'21		conjunction	11107 May 28 03:29	12° \mathbb{I} 15'46	-0°34'46
	11102 Apr 14 07:29	0° \mathbb{A}		minimum elong	11107 May 28 03:28	12° \mathbb{I} 15'45	0°35'21
retrograde	11102 May 10 20:26	1° \mathbb{A} 05'59		morning rise	11107 Jun 09 22:49	15° \mathbb{I} 12'41	
	11102 Jun 06 06:40	30° \mathbb{R} \mathbb{B}			11107 Aug 23 12:23	0° \mathbb{B}	
opposition	11102 Jul 10 09:46	26° \mathbb{B} 06'18	1°00'05	retrograde	11107 Oct 14 10:16	3° \mathbb{B} 59'51	
min. Earth dist.	11102 Jul 09 15:37	26° \mathbb{B} 12'16	4.39606 AU		11107 Dec 06 15:53	30° \mathbb{R} \mathbb{I}	
direct	11102 Sep 09 13:52	21° \mathbb{B} 05'28		opposition	11107 Dec 13 17:11	29° \mathbb{I} 05'15	-0°59'30
	11102 Dec 01 19:56	0° \mathbb{A}		min. Earth dist.	11107 Dec 15 02:04	28° \mathbb{I} 54'33	4.10838 AU
evening set	11103 Jan 13 02:29	8° \mathbb{A} 33'15		direct	11108 Feb 12 03:14	24° \mathbb{I} 07'39	
conjunction	11103 Jan 26 08:13	11° \mathbb{A} 24'00	0°37'45		11108 Apr 15 06:15	0° \mathbb{B}	
minimum elong	11103 Jan 26 08:13	11° \mathbb{A} 24'01	0°38'17	evening set	11108 Jun 17 07:46	13° \mathbb{B} 22'17	
max. Earth dist.	11103 Jan 26 19:04	11° \mathbb{A} 29'51	6.45361 AU	max. Earth dist.	11108 Jun 28 19:09	16° \mathbb{B} 06'30	6.02754 AU
morning rise	11103 Feb 08 12:27	14° \mathbb{A} 13'50		conjunction	11108 Jun 30 06:36	16° \mathbb{B} 27'43	-0°41'28
	11103 Feb 12 03:07	15° \mathbb{A}		minimum elong	11108 Jun 30 06:36	16° \mathbb{B} 27'43	0°42'06
	11103 May 14 19:58	0° \mathbb{H}		morning rise	11108 Jul 13 06:37	19° \mathbb{B} 34'01	
retrograde	11103 Jun 09 17:09	1° \mathbb{H} 01'32			11108 Aug 28 21:10	0° \mathbb{Q}	
	11103 Jul 05 10:26	30° \mathbb{R} \mathbb{A}		retrograde	11108 Nov 20 02:06	9° \mathbb{Q} 36'32	
opposition	11103 Aug 09 14:04	26° \mathbb{A} 04'58	0°46'23	opposition	11109 Jan 18 19:49	4° \mathbb{Q} 39'33	-0°59'11
min. Earth dist.	11103 Aug 09 16:32	26° \mathbb{A} 04'10	4.49155 AU	min. Earth dist.	11109 Jan 19 08:00	4° \mathbb{Q} 35'30	3.96019 AU
direct	11103 Oct 10 18:38	21° \mathbb{A} 03'40			11109 Mar 06 06:38	30° \mathbb{R} \mathbb{B}	
	11104 Jan 03 01:34	0° \mathbb{H}		direct	11109 Mar 18 20:17	29° \mathbb{B} 43'57	
evening set	11104 Feb 12 20:03	8° \mathbb{H} 10'39			11109 Mar 31 09:58	0° \mathbb{Q}	
conjunction	11104 Feb 25 21:24	10° \mathbb{H} 57'35	0°23'59		11109 Jul 03 21:18	15° \mathbb{Q}	
minimum elong	11104 Feb 25 21:25	10° \mathbb{H} 57'36	0°24'14	evening set	11109 Jul 23 16:08	19° \mathbb{Q} 43'26	
max. Earth dist.	11104 Feb 25 03:44	10° \mathbb{H} 48'09	6.50816 AU	conjunction	11109 Aug 05 21:11	22° \mathbb{Q} 56'58	-0°32'54
morning rise	11104 Mar 09 20:43	13° \mathbb{H} 43'35		minimum elong	11109 Aug 05 21:13	22° \mathbb{Q} 56'59	0°33'21
	11104 Jun 24 18:05	0° Υ		max. Earth dist.	11109 Aug 05 21:51	22° \mathbb{Q} 57'22	5.91528 AU
retrograde	11104 Jul 08 07:07	0° Υ 17'06		morning rise	11109 Aug 19 04:08	26° \mathbb{Q} 11'43	
	11104 Jul 21 20:08	30° \mathbb{R} \mathbb{H}			11109 Sep 04 00:45	0° \mathbb{P}	
opposition	11104 Sep 07 09:21	25° \mathbb{H} 22'47	0°21'11	retrograde	11109 Dec 29 02:15	17° \mathbb{P} 02'16	
min. Earth dist.	11104 Sep 08 06:01	25° \mathbb{H} 16'10	4.50292 AU	opposition	11110 Feb 26 10:20	12° \mathbb{P} 02'02	-0°34'49
direct	11104 Nov 08 23:53	20° \mathbb{H} 21'32		min. Earth dist.	11110 Feb 25 21:31	12° \mathbb{P} 06'21	3.89721 AU
	11105 Feb 05 01:35	0° Υ		direct	11110 Apr 25 12:52	7° \mathbb{P} 07'15	
evening set	11105 Mar 13 22:56	7° Υ 31'00		evening set	11110 Aug 30 16:06	27° \mathbb{P} 19'35	
max. Earth dist.	11105 Mar 25 03:35	9° Υ 55'33	6.47522 AU		11110 Sep 10 15:35	0° \mathbb{Q}	
conjunction	11105 Mar 26 20:38	10° Υ 17'43	0°04'04	conjunction	11110 Sep 13 03:32	0° \mathbb{Q} 36'34	-0°10'51
minimum elong	11105 Mar 26 20:39	10° Υ 17'44	0°04'01	minimum elong	11110 Sep 13 03:32	0° \mathbb{Q} 36'34	0°10'55
behind sun begin	11105 Mar 26 12:46	10° Υ 13'30		behind sun begin	11110 Sep 12 21:14	0° \mathbb{Q} 32'44	
behind sun end	11105 Mar 27 04:32	10° Υ 21'58		behind sun end	11110 Sep 13 09:51	0° \mathbb{Q} 40'24	
morning rise	11105 Apr 08 16:25	13° Υ 03'42		max. Earth dist.	11110 Sep 14 17:04	0° \mathbb{Q} 59'27	5.90802 AU
desc. node	11105 Jun 09 08:17	24° Υ 54'42					

morning rise	11110 Sep 26 17:11	3°♌54'38		minimum elong	11116 Mar 01 03:04	15°♋14'14	0°21'37
retrograde	11111 Feb 05 06:58	24°♌37'47		morning rise	11116 Mar 14 01:53	18°♋00'03	
asc. node	11111 Feb 24 12:46	24°♌00'34			11116 May 16 16:36	0°♊	
min. Earth dist.	11111 Apr 04 05:38	19°♌46'01	3.94725 AU	retrograde	11116 Jul 12 13:41	4°♊34'19	
opposition	11111 Apr 05 15:05	19°♌34'39	0°04'07		11116 Sep 09 01:45	30°♋	
direct	11111 Jun 02 15:13	14°♌38'43		opposition	11116 Sep 11 15:25	29°♋40'17	0°16'59
	11111 Sep 18 18:23	0°♌		min. Earth dist.	11116 Sep 12 14:49	29°♋32'48	4.49761 AU
evening set	11111 Oct 07 17:33	4°♌24'48		direct	11116 Nov 13 07:37	24°♋39'09	
					11117 Jan 15 10:23	0°♊	
conjunction	11111 Oct 21 08:08	7°♌38'25	0°15'21	evening set	11117 Mar 18 05:12	11°♊50'37	
minimum elong	11111 Oct 21 08:07	7°♌38'24	0°15'42	max. Earth dist.	11117 Mar 29 06:34	14°♊13'47	6.46532 AU
behind sun begin	11111 Oct 21 06:49	7°♌37'38					
behind sun end	11111 Oct 21 09:26	7°♌39'10		conjunction	11117 Mar 31 02:30	14°♊37'33	0°00'58
max. Earth dist.	11111 Oct 23 18:02	8°♌12'46	6.00924 AU	minimum elong	11117 Mar 31 02:28	14°♊37'32	0°00'52
morning rise	11111 Nov 04 00:20	10°♌52'30		behind sun begin	11117 Mar 30 18:29	14°♊33'14	
	11111 Nov 21 20:06	15°♌		behind sun end	11117 Mar 31 10:28	14°♊41'51	
	11112 Feb 21 10:41	0°♊		morning rise	11117 Apr 12 21:58	17°♊23'46	
retrograde	11112 Mar 12 02:26	0°♊38'09		desc. node	11117 Apr 17 18:01	18°♊26'02	
	11112 Mar 31 16:16	30°♋			11117 Jun 18 08:48	0°♋	
min. Earth dist.	11112 May 09 03:58	25°♌47'21	4.08752 AU	retrograde	11117 Aug 12 06:08	4°♋18'15	
opposition	11112 May 10 18:53	25°♌34'10	0°39'35		11117 Oct 07 17:53	30°♋	
direct	11112 Jul 08 14:57	20°♌36'05		opposition	11117 Oct 12 07:28	29°♊25'03	-0°14'19
	11112 Sep 28 23:04	0°♊		min. Earth dist.	11117 Oct 13 19:00	29°♊13'41	4.41397 AU
evening set	11112 Nov 12 05:29	9°♊31'30		direct	11117 Dec 13 17:11	24°♊24'28	
					11118 Feb 15 17:28	0°♋	
conjunction	11112 Nov 25 19:16	12°♊37'05	0°34'41	evening set	11118 Apr 17 19:51	12°♋03'28	
minimum elong	11112 Nov 25 19:15	12°♊37'04	0°35'17	max. Earth dist.	11118 Apr 28 08:39	14°♋23'42	6.34586 AU
max. Earth dist.	11112 Nov 28 04:36	13°♊09'47	6.17482 AU				
morning rise	11112 Dec 09 09:03	15°♊42'22		conjunction	11118 Apr 30 15:12	14°♋54'06	-0°20'17
	11113 Feb 20 01:43	0°♋		minimum elong	11118 Apr 30 15:11	14°♋54'05	0°20'42
retrograde	11113 Apr 14 04:54	4°♋12'12			11118 May 01 01:49	15°♋	
	11113 Jun 07 01:24	30°♋		morning rise	11118 May 13 09:17	17°♋44'26	
min. Earth dist.	11113 Jun 12 00:26	29°♊20'28	4.26177 AU		11118 Jul 13 21:53	0°♋	
opposition	11113 Jun 13 07:59	29°♊09'56	0°58'48	retrograde	11118 Sep 14 00:22	5°♋28'16	
direct	11113 Aug 12 10:01	24°♊10'03		opposition	11118 Nov 13 18:16	0°♋34'46	-0°43'19
	11113 Oct 15 18:07	0°♋		min. Earth dist.	11118 Nov 15 10:10	0°♋21'56	4.26529 AU
evening set	11113 Dec 16 10:24	12°♋13'00			11118 Nov 18 06:34	30°♋	
				direct	11119 Jan 14 08:14	25°♋35'28	
conjunction	11113 Dec 29 20:14	15°♋09'47	0°41'41		11119 Mar 10 12:24	0°♋	
minimum elong	11113 Dec 29 20:14	15°♋09'47	0°42'19	evening set	11119 May 19 21:01	14°♋00'32	
max. Earth dist.	11113 Dec 31 07:43	15°♋29'18	6.34332 AU	max. Earth dist.	11119 May 30 12:02	16°♋27'32	6.17874 AU
morning rise	11114 Jan 12 05:17	18°♋05'51					
	11114 Mar 13 19:53	0°♋		conjunction	11119 Jun 01 16:45	16°♋58'02	-0°36'25
retrograde	11114 May 15 02:42	5°♋30'29		minimum elong	11119 Jun 01 16:45	16°♋58'02	0°37'02
opposition	11114 Jul 14 16:32	0°♋31'16	0°59'00	morning rise	11119 Jun 14 12:35	19°♋55'53	
min. Earth dist.	11114 Jul 14 01:45	0°♋36'07	4.41169 AU		11119 Jul 31 02:22	0°♋	
	11114 Jul 18 15:54	30°♋		retrograde	11119 Oct 19 09:15	8°♋51'11	
direct	11114 Sep 14 00:51	25°♋30'18		opposition	11119 Dec 18 15:28	3°♋56'14	-1°00'45
	11114 Nov 09 20:52	0°♋		min. Earth dist.	11119 Dec 19 21:40	3°♋46'22	4.09152 AU
evening set	11115 Jan 17 11:34	12°♋54'38			11120 Jan 22 14:59	30°♋	
	11115 Jan 27 05:34	15°♋		direct	11120 Feb 16 21:31	28°♋58'50	
					11120 Mar 13 02:20	0°♋	
conjunction	11115 Jan 30 16:53	15°♋44'47	0°36'18	evening set	11120 Jun 22 02:33	18°♋18'09	
minimum elong	11115 Jan 30 16:54	15°♋44'47	0°36'48	max. Earth dist.	11120 Jul 03 19:39	21°♋06'13	6.01348 AU
max. Earth dist.	11115 Jan 31 01:04	15°♋49'11	6.46425 AU				
morning rise	11115 Feb 12 20:17	18°♋33'56		conjunction	11120 Jul 05 02:06	21°♋24'29	-0°41'12
	11115 Apr 13 08:09	0°♋		minimum elong	11120 Jul 05 02:06	21°♋24'29	0°41'49
retrograde	11115 Jun 13 19:55	5°♋18'28		morning rise	11120 Jul 18 02:39	24°♋31'43	
opposition	11115 Aug 13 18:38	0°♋22'20	0°43'22		11120 Aug 10 13:04	0°♋	
min. Earth dist.	11115 Aug 13 22:44	0°♋21'00	4.49685 AU	retrograde	11120 Nov 25 06:51	14°♋40'46	
	11115 Aug 16 15:50	30°♋		opposition	11121 Jan 23 22:45	9°♋43'23	-0°57'10
direct	11115 Oct 15 00:17	25°♋21'06		min. Earth dist.	11121 Jan 24 08:57	9°♋39'59	3.95040 AU
	11115 Dec 12 12:58	0°♋		direct	11121 Mar 23 20:22	4°♋47'56	
evening set	11116 Feb 17 02:20	12°♋27'30			11121 Jun 15 24:00	15°♋	
max. Earth dist.	11116 Feb 29 05:48	15°♋02'52	6.50802 AU	evening set	11121 Jul 28 16:08	24°♋49'39	
conjunction	11116 Mar 01 03:03	15°♋14'14	0°21'25	conjunction	11121 Aug 10 21:56	28°♋03'47	-0°30'34

minimum elong	11121 Aug 10 21:57	28°♏03'48	0°30'58	minimum elong	11127 Feb 04 00:33	20°♊03'07	0°35'07
max. Earth dist.	11121 Aug 11 01:51	28°♏06'10	5.91066 AU	max. Earth dist.	11127 Feb 04 04:03	20°♊05'00	6.47272 AU
	11121 Aug 18 19:58	0°♎		morning rise	11127 Feb 17 03:27	22°♊51'43	
morning rise	11121 Aug 24 05:55	1°♎19'12			11127 Mar 24 03:22	0°♋	
retrograde	11122 Jan 03 05:23	22°♎11'10		retrograde	11127 Jun 18 00:30	9°♋33'37	
opposition	11122 Mar 03 13:25	17°♎10'32	-0°30'04	opposition	11127 Aug 17 23:06	4°♋37'46	0°40'08
min. Earth dist.	11122 Mar 02 21:14	17°♎15'59	3.89856 AU	min. Earth dist.	11127 Aug 18 06:10	4°♋35'29	4.50092 AU
direct	11122 Apr 30 13:43	12°♎15'39			11127 Oct 03 04:21	30°♌	
	11122 Aug 25 14:18	0°♍		direct	11127 Oct 19 07:24	29°♌36'28	
evening set	11122 Sep 04 18:08	2°♍26'32			11127 Nov 04 12:15	0°♌	
				evening set	11128 Feb 21 07:56	16°♌42'20	
conjunction	11122 Sep 18 06:11	5°♍43'29	-0°07'21	max. Earth dist.	11128 Mar 04 08:53	19°♌16'25	6.50719 AU
minimum elong	11122 Sep 18 06:10	5°♍43'29	0°07'21				
behind sun begin	11122 Sep 17 22:32	5°♍38'51		conjunction	11128 Mar 05 08:15	19°♌28'54	0°18'44
behind sun end	11122 Sep 18 13:49	5°♍48'06		minimum elong	11128 Mar 05 08:15	19°♌28'54	0°18'55
max. Earth dist.	11122 Sep 19 21:40	6°♍07'31	5.91507 AU	morning rise	11128 Mar 18 06:24	22°♌14'31	
morning rise	11122 Oct 01 20:30	9°♍01'29			11128 Apr 25 15:42	0°♍	
asc. node	11123 Jan 07 20:13	27°♍52'10		retrograde	11128 Jul 16 17:29	8°♍49'33	
retrograde	11123 Feb 10 05:12	29°♍40'10		opposition	11128 Sep 15 20:42	3°♍55'39	0°12'42
min. Earth dist.	11123 Apr 09 04:01	24°♍48'21	3.95910 AU	min. Earth dist.	11128 Sep 16 21:01	3°♍47'53	4.49177 AU
opposition	11123 Apr 10 14:03	24°♍36'47	0°09'25		11128 Oct 21 08:09	30°♎	
direct	11123 Jun 07 15:58	19°♍40'33		direct	11128 Nov 17 11:59	28°♎54'34	
	11123 Aug 31 22:37	0°♏			11128 Dec 14 20:32	0°♏	
evening set	11123 Oct 12 17:20	9°♏22'12		desc. node	11129 Feb 23 13:16	10°♏31'36	
				evening set	11129 Mar 22 10:44	16°♏08'06	
conjunction	11123 Oct 26 08:17	12°♏35'12	0°18'30	max. Earth dist.	11129 Apr 02 10:03	18°♏30'33	6.45448 AU
minimum elong	11123 Oct 26 08:16	12°♏35'11	0°18'53				
max. Earth dist.	11123 Oct 28 20:04	13°♏10'31	6.02483 AU	conjunction	11129 Apr 04 07:34	18°♏55'16	-0°02'11
	11123 Nov 05 13:43	15°♏		minimum elong	11129 Apr 04 07:33	18°♏55'16	0°02'20
morning rise	11123 Nov 09 00:21	15°♏48'29		behind sun begin	11129 Apr 03 23:34	18°♏50'57	
	11124 Jan 16 06:56	0°♐		behind sun end	11129 Apr 04 15:32	18°♏59'34	
retrograde	11124 Mar 16 18:59	5°♐26'15		morning rise	11129 Apr 17 02:41	21°♏41'46	
min. Earth dist.	11124 May 13 20:50	0°♐35'25	4.10524 AU		11129 May 27 16:56	0°♐	
opposition	11124 May 15 11:12	0°♐22'26	0°43'15	retrograde	11129 Aug 16 16:50	8°♐40'50	
	11124 May 18 05:39	30°♑		opposition	11129 Oct 16 17:01	3°♐47'41	-0°18'42
direct	11124 Jul 13 10:12	25°♑24'08		min. Earth dist.	11129 Oct 18 06:37	3°♐35'40	4.39835 AU
	11124 Sep 06 16:40	0°♑			11129 Nov 19 12:21	30°♑	
evening set	11124 Nov 17 00:33	14°♑14'13		direct	11129 Dec 18 02:02	28°♑47'14	
					11130 Jan 15 15:14	0°♑	
conjunction	11124 Nov 30 13:53	17°♑18'51	0°36'22		11130 Apr 15 06:59	15°♑	
minimum elong	11124 Nov 30 13:53	17°♑18'51	0°37'00	evening set	11130 Apr 22 04:09	16°♑31'01	
max. Earth dist.	11124 Dec 02 20:19	17°♑49'46	6.19306 AU	max. Earth dist.	11130 May 02 14:54	18°♑50'48	6.32631 AU
morning rise	11124 Dec 14 03:25	20°♑23'11					
	11125 Jan 28 14:49	0°♒		conjunction	11130 May 04 23:19	19°♒22'21	-0°22'58
retrograde	11125 Apr 18 13:42	8°♒45'11		minimum elong	11130 May 04 23:18	19°♒22'21	0°23'25
opposition	11125 Jun 17 18:01	3°♒43'15	0°59'52	morning rise	11130 May 17 17:32	22°♒13'30	
min. Earth dist.	11125 Jun 16 12:08	3°♒53'13	4.27914 AU		11130 Jun 23 05:10	0°♒	
	11125 Jul 19 11:33	30°♒		retrograde	11130 Sep 18 17:15	10°♒05'40	
direct	11125 Aug 16 23:24	28°♒43'10		opposition	11130 Nov 18 10:28	5°♒12'00	-0°46'38
	11125 Sep 14 18:54	0°♒		min. Earth dist.	11130 Nov 20 01:17	4°♒59'30	4.24294 AU
evening set	11125 Dec 20 23:31	16°♒41'42		direct	11131 Jan 18 20:03	0°♒12'54	
				evening set	11131 May 24 11:18	18°♒44'59	
conjunction	11126 Jan 03 08:59	19°♒37'41	0°41'34	max. Earth dist.	11131 Jun 04 05:39	21°♒14'39	6.15540 AU
minimum elong	11126 Jan 03 08:59	19°♒37'41	0°42'13				
max. Earth dist.	11126 Jan 04 18:30	19°♒56'05	6.35872 AU	conjunction	11131 Jun 06 07:26	21°♒43'36	-0°37'53
morning rise	11126 Jan 16 17:13	22°♒32'50		minimum elong	11131 Jun 06 07:25	21°♒43'36	0°38'31
	11126 Feb 21 13:20	0°♓		morning rise	11131 Jun 19 03:33	24°♒42'36	
retrograde	11126 May 19 07:58	9°♓51'46			11131 Jul 12 12:11	0°♓	
opposition	11126 Jul 18 22:35	4°♓53'00	0°57'36	retrograde	11131 Oct 24 12:52	13°♓48'19	
min. Earth dist.	11126 Jul 18 09:35	4°♓57'15	4.42410 AU	opposition	11131 Dec 23 15:52	8°♓53'08	-1°01'38
	11126 Sep 09 03:02	30°♓		min. Earth dist.	11131 Dec 24 21:03	8°♓43'36	4.06903 AU
direct	11126 Sep 18 09:47	29°♓52'01		direct	11132 Feb 21 17:46	3°♓56'02	
	11126 Sep 27 17:20	0°♓		evening set	11132 Jun 27 00:42	23°♓22'29	
	11127 Jan 11 07:11	15°♓		max. Earth dist.	11132 Jul 08 21:05	26°♓13'17	5.99392 AU
evening set	11127 Jan 21 20:01	17°♓13'34					
				conjunction	11132 Jul 10 00:56	26°♓30'03	-0°40'38
conjunction	11127 Feb 04 00:32	20°♓03'07	0°34'40	minimum elong	11132 Jul 10 00:56	26°♓30'04	0°41'15

morning rise	11132 Jul 23 02:34	29° \mathfrak{G} 38'38		retrograde	11138 May 23 11:23	14° \approx 12'26	
	11132 Jul 24 14:15	0° \mathcal{O}		opposition	11138 Jul 23 04:08	9° \approx 14'00	0°55'57
	11132 Oct 04 05:46	15° \mathcal{O}		min. Earth dist.	11138 Jul 22 17:33	9° \approx 17'27	4.44230 AU
retrograde	11132 Nov 30 14:21	19° \mathcal{O} 56'26		direct	11138 Sep 22 18:50	4° \approx 12'51	
opposition	11133 Jan 29 05:43	14° \mathcal{O} 58'39	-0°54'39		11138 Dec 25 10:32	15° \approx	
min. Earth dist.	11133 Jan 29 11:42	14° \mathcal{O} 56'40	3.93597 AU	evening set	11139 Jan 26 03:05	21° \approx 29'46	
	11133 Jan 29 01:40	15° \mathfrak{R} \mathcal{O}					
direct	11133 Mar 28 22:25	10° \mathcal{O} 03'24		conjunction	11139 Feb 08 07:03	24° \approx 18'34	0°32'54
	11133 May 24 02:31	15° \mathcal{O}		minimum elong	11139 Feb 08 07:04	24° \approx 18'34	0°33'19
evening set	11133 Aug 02 21:15	0° \mathfrak{M} 09'16		max. Earth dist.	11139 Feb 08 07:50	24° \approx 18'58	6.48583 AU
	11133 Aug 02 06:00	0° \mathfrak{M}		morning rise	11139 Feb 21 09:02	27° \approx 06'21	
					11139 Mar 07 03:46	0° \mathfrak{H}	
conjunction	11133 Aug 16 04:01	3° \mathfrak{M} 24'16	-0°27'53	retrograde	11139 Jun 22 01:28	13° \mathfrak{H} 44'18	
minimum elong	11133 Aug 16 04:02	3° \mathfrak{M} 24'16	0°28'13	opposition	11139 Aug 22 01:46	8° \mathfrak{H} 48'45	0°36'47
max. Earth dist.	11133 Aug 16 12:56	3° \mathfrak{M} 29'43	5.90291 AU	min. Earth dist.	11139 Aug 22 11:06	8° \mathfrak{H} 45'45	4.50807 AU
morning rise	11133 Aug 29 13:02	6° \mathfrak{M} 40'32		direct	11139 Oct 23 11:54	3° \mathfrak{H} 47'26	
retrograde	11134 Jan 08 14:43	27° \mathfrak{M} 35'04		evening set	11140 Feb 25 11:22	20° \mathfrak{H} 51'53	
opposition	11134 Mar 08 22:04	22° \mathfrak{M} 33'57	-0°24'52	max. Earth dist.	11140 Mar 08 06:27	23° \mathfrak{H} 22'55	6.50769 AU
min. Earth dist.	11134 Mar 08 03:20	22° \mathfrak{M} 40'17	3.89836 AU				
direct	11134 May 05 21:52	17° \mathfrak{M} 38'58		conjunction	11140 Mar 09 10:55	23° \mathfrak{H} 38'10	0°16'03
	11134 Aug 07 14:43	0° \mathfrak{L}		minimum elong	11140 Mar 09 10:56	23° \mathfrak{H} 38'10	0°16'11
evening set	11134 Sep 10 02:10	7° \mathfrak{L} 48'48		morning rise	11140 Mar 22 08:40	26° \mathfrak{H} 23'34	
					11140 Apr 08 14:10	0° \mathfrak{Y}	
conjunction	11134 Sep 23 15:03	11° \mathfrak{L} 05'44	-0°03'37	retrograde	11140 Jul 20 22:03	12° \mathfrak{Y} 59'17	
minimum elong	11134 Sep 23 15:03	11° \mathfrak{L} 05'45	0°03'33	opposition	11140 Sep 20 00:21	8° \mathfrak{Y} 05'32	0°08'28
behind sun begin	11134 Sep 23 06:45	11° \mathfrak{L} 00'43		min. Earth dist.	11140 Sep 21 04:01	7° \mathfrak{Y} 56'41	4.48542 AU
behind sun end	11134 Sep 23 23:21	11° \mathfrak{L} 10'46		direct	11140 Nov 21 16:41	3° \mathfrak{Y} 04'23	
max. Earth dist.	11134 Sep 25 11:56	11° \mathfrak{L} 33'00	5.92260 AU	desc. node	11141 Jan 03 12:29	5° \mathfrak{Y} 40'22	
morning rise	11134 Oct 07 05:51	14° \mathfrak{L} 23'36		evening set	11141 Mar 26 14:02	20° \mathfrak{Y} 20'15	
asc. node	11134 Nov 17 08:56	23° \mathfrak{L} 48'34		max. Earth dist.	11141 Apr 06 10:18	22° \mathfrak{Y} 41'27	6.44155 AU
	11134 Dec 20 07:57	0° \mathfrak{M}					
retrograde	11135 Feb 15 09:35	4° \mathfrak{M} 56'53		conjunction	11141 Apr 08 10:37	23° \mathfrak{Y} 07'45	-0°05'09
min. Earth dist.	11135 Apr 14 06:33	0° \mathfrak{M} 05'23	3.97354 AU	minimum elong	11141 Apr 08 10:36	23° \mathfrak{Y} 07'45	0°05'22
	11135 Apr 14 22:25	30° \mathfrak{R} \mathfrak{L}		behind sun begin	11141 Apr 08 02:54	23° \mathfrak{Y} 03'34	
opposition	11135 Apr 15 18:03	29° \mathfrak{L} 53'20	0°14'54	behind sun end	11141 Apr 08 18:18	23° \mathfrak{Y} 11'55	
direct	11135 Jun 12 21:39	24° \mathfrak{L} 56'53		morning rise	11141 Apr 21 05:24	25° \mathfrak{Y} 54'38	
	11135 Aug 09 00:47	0° \mathfrak{M}			11141 May 10 10:36	0° \mathfrak{B}	
evening set	11135 Oct 17 22:41	14° \mathfrak{M} 32'54		retrograde	11141 Aug 21 00:37	12° \mathfrak{B} 59'12	
	11135 Oct 19 20:57	15° \mathfrak{M}		opposition	11141 Oct 21 01:01	8° \mathfrak{B} 06'00	-0°22'55
				min. Earth dist.	11141 Oct 22 15:07	7° \mathfrak{B} 53'48	4.37949 AU
conjunction	11135 Oct 31 13:31	17° \mathfrak{M} 44'57	0°21'40	direct	11141 Dec 22 06:36	3° \mathfrak{B} 05'37	
minimum elong	11135 Oct 31 13:30	17° \mathfrak{M} 44'56	0°22'06		11142 Mar 30 00:32	15° \mathfrak{B}	
max. Earth dist.	11135 Nov 03 01:35	18° \mathfrak{M} 20'16	6.04469 AU	evening set	11142 Apr 26 11:33	20° \mathfrak{B} 55'29	
morning rise	11135 Nov 14 05:39	20° \mathfrak{M} 57'16		max. Earth dist.	11142 May 06 22:11	23° \mathfrak{B} 15'54	6.30275 AU
	11135 Dec 25 02:28	0° \mathfrak{X}					
retrograde	11136 Mar 21 12:32	10° \mathfrak{X} 24'58		conjunction	11142 May 09 06:41	23° \mathfrak{B} 47'43	-0°25'30
min. Earth dist.	11136 May 18 16:25	5° \mathfrak{X} 34'19	4.12857 AU	minimum elong	11142 May 09 06:40	23° \mathfrak{B} 47'42	0°25'59
opposition	11136 May 20 07:05	5° \mathfrak{X} 21'15	0°46'46	morning rise	11142 May 22 00:57	26° \mathfrak{B} 39'49	
direct	11136 Jul 18 09:36	0° \mathfrak{X} 22'38			11142 Jun 06 03:03	0° \mathfrak{I}	
evening set	11136 Nov 21 22:30	19° \mathfrak{X} 05'07		retrograde	11142 Sep 23 12:44	14° \mathfrak{I} 41'54	
				opposition	11142 Nov 23 02:43	9° \mathfrak{I} 48'08	-0°49'42
conjunction	11136 Dec 05 11:29	22° \mathfrak{X} 08'28	0°37'53	min. Earth dist.	11142 Nov 24 18:23	9° \mathfrak{I} 35'20	4.21606 AU
minimum elong	11136 Dec 05 11:28	22° \mathfrak{X} 08'28	0°38'31	direct	11143 Jan 23 08:52	4° \mathfrak{I} 49'14	
max. Earth dist.	11136 Dec 07 16:36	22° \mathfrak{X} 38'30	6.21811 AU	evening set	11143 May 29 02:07	23° \mathfrak{I} 30'03	
morning rise	11136 Dec 19 00:14	25° \mathfrak{X} 11'23		max. Earth dist.	11143 Jun 08 21:19	26° \mathfrak{I} 01'10	6.12736 AU
	11137 Jan 09 23:12	0° \mathfrak{Z}					
retrograde	11137 Apr 23 00:50	13° \mathfrak{Z} 23'00		conjunction	11143 Jun 10 22:41	26° \mathfrak{I} 30'03	-0°39'06
min. Earth dist.	11137 Jun 21 02:04	8° \mathfrak{Z} 30'40	4.30365 AU	minimum elong	11143 Jun 10 22:41	26° \mathfrak{I} 30'03	0°39'45
opposition	11137 Jun 22 05:53	8° \mathfrak{Z} 21'26	1°00'37	morning rise	11143 Jun 23 19:33	29° \mathfrak{I} 30'34	
direct	11137 Aug 21 16:23	3° \mathfrak{Z} 21'09			11143 Jun 25 22:10	0° \mathfrak{G}	
evening set	11137 Dec 25 13:19	21° \mathfrak{Z} 12'37		retrograde	11143 Oct 29 16:04	18° \mathfrak{G} 48'37	
				opposition	11143 Dec 28 17:56	13° \mathfrak{G} 53'09	-1°02'08
conjunction	11138 Jan 07 21:59	24° \mathfrak{Z} 07'24	0°41'16	min. Earth dist.	11143 Dec 29 19:50	13° \mathfrak{G} 44'39	4.04231 AU
minimum elong	11138 Jan 07 22:00	24° \mathfrak{Z} 07'24	0°41'54	direct	11144 Feb 26 13:16	8° \mathfrak{G} 56'21	
max. Earth dist.	11138 Jan 09 03:36	24° \mathfrak{Z} 23'34	6.38079 AU	evening set	11144 Jul 02 01:08	28° \mathfrak{G} 31'38	
morning rise	11138 Jan 21 05:31	27° \mathfrak{Z} 01'21			11144 Jul 08 03:54	0° \mathcal{O}	
	11138 Feb 04 03:35	0° \approx		max. Earth dist.	11144 Jul 14 03:28	1° \mathcal{O} 26'52	5.97116 AU

conjunction	11144 Jul 15 02:16	1°♌40'40	-0°39'47	retrograde	11150 May 27 16:26	18°♊33'10	
minimum elong	11144 Jul 15 02:16	1°♌40'40	0°40'22		11150 Jul 16 09:57	15°♊	
morning rise	11144 Jul 28 04:54	4°♌50'47		opposition	11150 Jul 27 09:54	13°♊35'14	0°53'57
	11144 Sep 10 20:01	15°♌		min. Earth dist.	11150 Jul 27 02:42	13°♊37'35	4.45818 AU
retrograde	11144 Dec 06 03:21	25°♌18'38		direct	11150 Sep 27 04:45	8°♊34'05	
opposition	11145 Feb 03 15:43	20°♌20'26	-0°51'42		11150 Dec 05 20:43	15°♊	
min. Earth dist.	11145 Feb 03 18:36	20°♌19'29	3.91969 AU	evening set	11151 Jan 30 10:16	25°♊47'22	
direct	11145 Apr 03 05:33	15°♌25'21					
	11145 Jul 15 18:36	0°♍		conjunction	11151 Feb 12 13:29	28°♊35'31	0°30'55
evening set	11145 Aug 08 05:49	5°♍36'01		minimum elong	11151 Feb 12 13:29	28°♊35'32	0°31'19
				max. Earth dist.	11151 Feb 12 08:48	28°♊33'02	6.49533 AU
conjunction	11145 Aug 21 13:46	8°♍51'56	-0°24'56		11151 Feb 19 03:33	0°♋	
minimum elong	11145 Aug 21 13:47	8°♍51'56	0°25'14	morning rise	11151 Feb 25 14:54	1°♋22'44	
max. Earth dist.	11145 Aug 22 05:38	9°♍01'40	5.89498 AU	retrograde	11151 Jun 26 05:14	17°♋58'18	
morning rise	11145 Sep 03 23:47	12°♍09'04		opposition	11151 Aug 26 05:43	13°♋03'03	0°33'11
	11145 Nov 30 19:20	0°♎		min. Earth dist.	11151 Aug 26 18:04	12°♋59'05	4.51088 AU
retrograde	11146 Jan 14 03:16	3°♎05'32		direct	11151 Oct 27 17:21	8°♋01'43	
	11146 Feb 27 17:22	30°♎		evening set	11152 Feb 29 16:07	25°♋06'14	
min. Earth dist.	11146 Mar 13 11:07	28°♎11'33	3.90002 AU	max. Earth dist.	11152 Mar 12 08:32	27°♋35'59	6.50362 AU
opposition	11146 Mar 14 09:25	28°♎04'00	-0°19'23				
direct	11146 May 11 07:04	23°♎08'58		conjunction	11152 Mar 13 15:20	27°♋52'29	0°13'13
	11146 Jul 17 03:52	0°♏		minimum elong	11152 Mar 13 15:20	27°♋52'29	0°13'18
evening set	11146 Sep 15 13:15	13°♏16'51		behind sun begin	11152 Mar 13 10:44	27°♋50'02	
asc. node	11146 Sep 25 02:15	15°♏35'12		behind sun end	11152 Mar 13 19:57	27°♋54'57	
					11152 Mar 23 13:26	0°♐	
conjunction	11146 Sep 29 02:35	16°♏33'33	0°00'16	morning rise	11152 Mar 26 12:24	0°♐37'51	
minimum elong	11146 Sep 29 02:33	16°♏33'31	0°00'25	retrograde	11152 Jul 25 03:27	17°♐15'48	
behind sun begin	11146 Sep 28 18:11	16°♏28'29		opposition	11152 Sep 24 06:15	12°♐22'13	0°04'04
behind sun end	11146 Sep 29 10:55	16°♏38'34		min. Earth dist.	11152 Sep 25 11:40	12°♐12'49	4.47476 AU
max. Earth dist.	11146 Oct 01 02:37	17°♏02'37	5.93333 AU	desc. node	11152 Nov 13 04:55	7°♐35'41	
morning rise	11146 Oct 12 18:02	19°♏51'06		direct	11152 Nov 25 21:16	7°♐21'09	
	11146 Nov 26 13:16	0°♑		evening set	11153 Mar 30 20:16	24°♐40'45	
retrograde	11147 Feb 20 13:05	10°♑17'15		max. Earth dist.	11153 Apr 10 13:17	27°♐00'45	6.42488 AU
min. Earth dist.	11147 Apr 19 09:39	5°♑26'20	3.99195 AU				
opposition	11147 Apr 20 23:32	5°♑13'27	0°20'17	conjunction	11153 Apr 12 16:24	27°♐28'43	-0°08'11
direct	11147 Jun 18 05:16	0°♑16'41		minimum elong	11153 Apr 12 16:24	27°♐28'43	0°08'26
	11147 Oct 02 10:03	15°♑		behind sun begin	11153 Apr 12 09:24	27°♐24'54	
evening set	11147 Oct 23 04:55	19°♑45'28		behind sun end	11153 Apr 12 23:24	27°♐32'31	
					11153 Apr 24 05:23	0°♒	
conjunction	11147 Nov 05 19:44	22°♑56'21	0°24'41	morning rise	11153 Apr 25 11:07	0°♒16'11	
minimum elong	11147 Nov 05 19:43	22°♑56'20	0°25'10		11153 Jul 15 21:24	15°♒	
max. Earth dist.	11147 Nov 08 08:41	23°♑32'00	6.06875 AU	retrograde	11153 Aug 25 15:07	17°♒27'36	
morning rise	11147 Nov 19 11:27	26°♑07'21			11153 Oct 05 15:32	15°♒	
	11147 Dec 06 11:16	0°♓		opposition	11153 Oct 25 13:06	12°♒34'24	-0°27'11
retrograde	11148 Mar 26 08:01	15°♓23'36		min. Earth dist.	11153 Oct 27 05:08	12°♒21'34	4.35763 AU
min. Earth dist.	11148 May 23 13:57	10°♓32'37	4.15535 AU	direct	11153 Dec 26 16:41	7°♒34'07	
opposition	11148 May 25 03:12	10°♓20'03	0°49'54		11154 Mar 11 00:07	15°♒	
direct	11148 Jul 23 10:50	5°♓21'09		evening set	11154 Apr 30 22:33	25°♒30'52	
evening set	11148 Nov 26 20:14	23°♓55'05		max. Earth dist.	11154 May 11 08:47	27°♒51'53	6.27730 AU
conjunction	11148 Dec 10 08:38	26°♓57'02	0°39'09	conjunction	11154 May 13 17:50	28°♒24'09	-0°27'58
minimum elong	11148 Dec 10 08:38	26°♓57'02	0°39'47	minimum elong	11154 May 13 17:49	28°♒24'09	0°28'30
max. Earth dist.	11148 Dec 12 11:53	27°♓25'49	6.24507 AU		11154 May 20 19:12	0°♈	
morning rise	11148 Dec 23 20:42	29°♓58'28		morning rise	11154 May 26 12:17	1°♈17'22	
	11148 Dec 23 23:27	0°♉		retrograde	11154 Sep 28 10:17	19°♈30'06	
retrograde	11149 Apr 27 08:45	17°♉59'27		opposition	11154 Nov 27 23:29	14°♈36'08	-0°52'33
opposition	11149 Jun 26 17:00	12°♉58'17	1°00'58	min. Earth dist.	11154 Nov 29 13:18	14°♈23'54	4.18889 AU
min. Earth dist.	11149 Jun 25 14:35	13°♉07'03	4.32858 AU	direct	11155 Jan 27 23:50	9°♈37'31	
direct	11149 Aug 26 07:02	7°♉57'52		evening set	11155 Jun 02 21:20	28°♈27'01	
evening set	11149 Dec 30 02:32	25°♉42'38			11155 Jun 09 12:10	0°♉	
				max. Earth dist.	11155 Jun 13 20:11	1°♉01'11	6.10084 AU
conjunction	11150 Jan 12 10:30	28°♉36'17	0°40'42				
minimum elong	11150 Jan 12 10:31	28°♉36'17	0°41'19	conjunction	11155 Jun 15 18:21	1°♉28'22	-0°40'05
max. Earth dist.	11150 Jan 13 11:56	28°♉50'06	6.40189 AU	minimum elong	11155 Jun 15 18:20	1°♉28'22	0°40'44
	11150 Jan 18 20:33	0°♊		morning rise	11155 Jun 28 15:51	4°♉30'19	
morning rise	11150 Jan 25 17:09	1°♊29'03		retrograde	11155 Nov 04 01:18	24°♉00'04	
	11150 Apr 08 09:02	15°♊		opposition	11156 Jan 03 00:16	19°♉04'17	-1°02'08

min. Earth dist.	11156 Jan 03 23:55	18°☾56'30	4.01891 AU	opposition	11161 Jul 01 01:06	17°☾25'46	1°00'57
direct	11156 Mar 02 15:54	14°☾07'48		direct	11161 Aug 30 20:36	12°☾25'12	
	11156 Jun 21 01:43	0°♈		evening set	11162 Jan 03 12:23	0°♌04'02	
evening set	11156 Jul 07 05:13	3°♈50'19			11162 Jan 03 04:54	0°♌	
conjunction	11156 Jul 20 07:22	7°♈00'38	-0°38'34	conjunction	11162 Jan 16 19:46	2°♌56'44	0°39'56
minimum elong	11156 Jul 20 07:23	7°♈00'39	0°39'08	minimum elong	11162 Jan 16 19:46	2°♌56'44	0°40'30
max. Earth dist.	11156 Jul 19 14:23	6°♈50'20	5.95349 AU	max. Earth dist.	11162 Jan 17 17:16	3°♌08'22	6.41965 AU
morning rise	11156 Aug 02 11:00	10°♈12'03		morning rise	11162 Jan 30 01:37	5°♌48'31	
	11156 Aug 22 16:30	15°♈			11162 Mar 16 18:07	15°♌	
	11156 Nov 19 16:58	0°♐		retrograde	11162 May 31 17:43	22°♌47'01	
retrograde	11156 Dec 11 17:13	0°♐47'15		opposition	11162 Jul 31 13:13	17°♌49'31	0°51'45
	11157 Jan 02 14:37	30°♐♈		min. Earth dist.	11162 Jul 31 08:19	17°♌51'07	4.46995 AU
opposition	11157 Feb 09 03:55	25°♈48'36	-0°48'12		11162 Aug 23 17:11	15°♌	
min. Earth dist.	11157 Feb 09 02:29	25°♈49'05	3.91021 AU	direct	11162 Oct 01 10:11	12°♌48'21	
direct	11157 Apr 08 13:31	20°♈53'41			11162 Nov 09 12:31	15°♌	
	11157 Jun 26 01:15	0°♐		evening set	11163 Feb 03 15:32	29°♌59'25	
evening set	11157 Aug 13 15:54	11°♐06'06			11163 Feb 03 16:39	0°♐	
conjunction	11157 Aug 27 00:34	14°♐22'26	-0°21'45	conjunction	11163 Feb 16 18:12	2°♐47'10	0°28'50
minimum elong	11157 Aug 27 00:35	14°♐22'26	0°22'00	minimum elong	11163 Feb 16 18:12	2°♐47'10	0°29'11
max. Earth dist.	11157 Aug 27 21:08	14°♐35'02	5.89465 AU	max. Earth dist.	11163 Feb 16 09:33	2°♐42'33	6.50044 AU
morning rise	11157 Sep 09 11:42	17°♐40'03		morning rise	11163 Mar 01 18:54	5°♐33'56	
	11157 Nov 03 06:40	0°♑		retrograde	11163 Jun 30 08:16	22°♐08'36	
retrograde	11158 Jan 19 12:13	8°♑34'50		opposition	11163 Aug 30 08:44	17°♐13'45	0°29'30
opposition	11158 Mar 19 20:00	3°♑32'48	-0°13'46	min. Earth dist.	11163 Aug 31 00:17	17°♐08'45	4.50918 AU
min. Earth dist.	11158 Mar 18 17:47	3°♑41'41	3.90900 AU	direct	11163 Oct 31 21:57	12°♐12'29	
	11158 Apr 18 05:20	30°♐♐		evening set	11164 Mar 04 20:18	29°♐18'29	
direct	11158 May 16 17:46	28°♐37'34			11164 Mar 08 02:08	0°♑	
	11158 Jun 14 06:46	0°♑		max. Earth dist.	11164 Mar 16 07:22	1°♑45'45	6.49519 AU
asc. node	11158 Aug 03 05:53	7°♑42'11					
evening set	11158 Sep 20 22:46	18°♑40'33		conjunction	11164 Mar 17 18:57	2°♑04'52	0°10'22
conjunction	11158 Oct 04 12:34	21°♑56'34	0°04'04	minimum elong	11164 Mar 17 18:58	2°♑04'52	0°10'24
minimum elong	11158 Oct 04 12:34	21°♑56'34	0°04'15	behind sun begin	11164 Mar 17 12:41	2°♑01'31	
behind sun begin	11158 Oct 04 04:19	21°♑51'38		behind sun end	11164 Mar 18 01:15	2°♑08'14	
behind sun end	11158 Oct 04 20:48	22°♑01'31		morning rise	11164 Mar 30 15:49	4°♑50'27	
max. Earth dist.	11158 Oct 06 16:37	22°♑27'56	5.95064 AU	retrograde	11164 Jul 29 11:14	21°♑32'12	
morning rise	11158 Oct 18 04:11	25°♑13'21		desc. node	11164 Sep 24 16:05	17°♑08'22	
	11158 Nov 07 13:25	0°♒		opposition	11164 Sep 28 12:53	16°♑38'45	-0°00'19
	11158 Nov 07 13:25	0°♒		min. Earth dist.	11164 Sep 29 20:24	16°♑28'40	4.46022 AU
	11159 Feb 08 06:40	15°♒		direct	11164 Nov 30 02:41	11°♑37'47	
retrograde	11159 Feb 25 14:50	15°♒29'50		evening set	11165 Apr 04 02:52	29°♑02'16	
	11159 Mar 14 19:16	15°♒			11165 Apr 08 12:41	0°♒	
min. Earth dist.	11159 Apr 24 12:01	10°♒38'45	4.01531 AU	max. Earth dist.	11165 Apr 14 19:14	1°♒22'31	6.40530 AU
opposition	11159 Apr 26 01:57	10°♒25'52	0°25'20				
direct	11159 Jun 23 11:52	5°♒28'46		conjunction	11165 Apr 16 22:57	1°♒50'56	-0°11'10
	11159 Sep 13 13:00	15°♒		minimum elong	11165 Apr 16 22:57	1°♒50'56	0°11'27
evening set	11159 Oct 28 07:49	24°♒48'47		behind sun begin	11165 Apr 16 17:09	1°♒47'46	
				behind sun end	11165 Apr 17 04:45	1°♒54'06	
conjunction	11159 Nov 10 22:26	27°♒58'19	0°27'24	morning rise	11165 Apr 29 17:23	4°♒39'05	
minimum elong	11159 Nov 10 22:25	27°♒58'19	0°27'56		11165 Jun 19 22:33	15°♒	
max. Earth dist.	11159 Nov 13 11:54	28°♒34'02	6.09572 AU	retrograde	11165 Aug 30 04:59	21°♒58'24	
	11159 Nov 19 16:10	0°♓		opposition	11165 Oct 30 02:23	17°♒05'12	-0°31'17
morning rise	11159 Nov 24 13:45	1°♓07'53		min. Earth dist.	11165 Oct 31 18:06	16°♒52'28	4.33437 AU
retrograde	11160 Mar 30 20:57	20°♓11'56			11165 Nov 15 21:13	15°♒	
min. Earth dist.	11160 May 28 06:16	15°♓21'03	4.18326 AU	direct	11165 Dec 31 01:54	12°♒05'14	
opposition	11160 May 29 19:16	15°♓08'37	0°52'33		11166 Feb 13 18:56	15°♒	
direct	11160 Jul 28 06:25	10°♓09'28			11166 May 04 18:32	0°♓	
evening set	11160 Dec 01 14:02	28°♓34'49		evening set	11166 May 05 11:06	0°♓09'20	
	11160 Dec 07 23:03	0°♓		max. Earth dist.	11166 May 15 21:48	2°♓31'27	6.25211 AU
conjunction	11160 Dec 15 01:45	1°♓35'22	0°40'06	conjunction	11166 May 18 06:20	3°♓03'38	-0°30'16
minimum elong	11160 Dec 15 01:45	1°♓35'22	0°40'45	minimum elong	11166 May 18 06:19	3°♓03'38	0°30'50
max. Earth dist.	11160 Dec 17 00:32	2°♓01'30	6.27153 AU	morning rise	11166 May 31 01:07	5°♓58'00	
morning rise	11160 Dec 28 13:07	4°♓35'22		retrograde	11166 Oct 03 11:03	24°♓21'22	
retrograde	11161 May 01 16:00	22°♓26'29		opposition	11166 Dec 02 21:46	19°♓27'13	-0°55'03
min. Earth dist.	11161 Jun 30 02:13	17°♓33'20	4.35152 AU	min. Earth dist.	11166 Dec 04 10:29	19°♓15'19	4.16356 AU

direct	11167 Feb 01 18:26	14° Π 28'55	evening set	11172 Dec 06 06:53	3° Ξ 13'19	
	11167 May 23 20:49	0° Θ				
evening set	11167 Jun 07 17:21	3° Θ 26'17	conjunction	11172 Dec 19 18:13	6° Ξ 12'44	0°40'48
max. Earth dist.	11167 Jun 18 20:36	6° Θ 03'50 6.07766 AU	minimum elong	11172 Dec 19 18:13	6° Ξ 12'44	0°41'28
			max. Earth dist.	11172 Dec 21 15:04	6° Ξ 37'40	6.29348 AU
conjunction	11167 Jun 20 15:00	6° Θ 28'55 -0°40'46	morning rise	11173 Jan 02 04:46	9° Ξ 11'31	
minimum elong	11167 Jun 20 15:00	6° Θ 28'54 0°41'26	retrograde	11173 May 05 21:36	26° Ξ 54'18	
morning rise	11167 Jul 03 13:08	9° Θ 32'11	min. Earth dist.	11173 Jul 04 11:38	22° Ξ 01'04	4.37010 AU
retrograde	11167 Nov 09 09:23	29° Θ 12'08	opposition	11173 Jul 05 08:55	21° Ξ 54'03	1°00'36
opposition	11168 Jan 08 06:42	24° Θ 16'03 -1°01'37	direct	11173 Sep 04 07:39	16° Ξ 53'22	
min. Earth dist.	11168 Jan 09 02:47	24° Θ 09'26 4.00021 AU		11173 Dec 17 18:12	0° \approx	
direct	11168 Mar 07 17:11	19° Θ 19'53	evening set	11174 Jan 07 22:56	4° \approx 27'42	
	11168 Jun 02 15:58	0° Ω				
evening set	11168 Jul 12 08:52	9° Ω 07'46	conjunction	11174 Jan 21 05:33	7° \approx 19'35	0°38'56
			minimum elong	11174 Jan 21 05:34	7° \approx 19'35	0°39'30
conjunction	11168 Jul 25 11:41	12° Ω 19'03 -0°37'02	max. Earth dist.	11174 Jan 21 21:41	7° \approx 28'18	6.43360 AU
minimum elong	11168 Jul 25 11:42	12° Ω 19'03 0°37'33	morning rise	11174 Feb 03 10:48	10° \approx 10'34	
max. Earth dist.	11168 Jul 24 22:52	12° Ω 11'15 5.94087 AU		11174 Feb 26 11:37	15° \approx	
	11168 Aug 05 12:21	15° Ω	retrograde	11174 Jun 04 22:37	27° \approx 04'36	
morning rise	11168 Aug 07 16:27	15° Ω 31'32	opposition	11174 Aug 04 18:04	22° \approx 07'32	0°49'15
	11168 Oct 13 11:08	0° Π	min. Earth dist.	11174 Aug 04 16:54	22° \approx 07'55	4.47857 AU
retrograde	11168 Dec 17 03:02	6° Π 12'00	direct	11174 Oct 05 18:55	17° \approx 06'19	
opposition	11169 Feb 14 14:01	1° Π 12'49 -0°44'17		11175 Jan 18 09:31	0° H	
min. Earth dist.	11169 Feb 14 08:26	1° Π 14'42 3.90511 AU	evening set	11175 Feb 07 22:04	4° H 15'52	
	11169 Feb 23 17:41	30° R Ω	max. Earth dist.	11175 Feb 20 11:54	6° H 56'44	6.50325 AU
direct	11169 Apr 13 20:51	26° Ω 17'58				
	11169 May 31 18:02	0° Π	conjunction	11175 Feb 21 00:13	7° H 03'19	0°26'33
evening set	11169 Aug 18 23:47	16° Π 30'44	minimum elong	11175 Feb 21 00:14	7° H 03'19	0°26'52
			morning rise	11175 Mar 06 00:21	9° H 49'47	
conjunction	11169 Sep 01 09:26	19° Π 47'21 -0°18'26	retrograde	11175 Jul 04 11:56	26° H 24'07	
minimum elong	11169 Sep 01 09:27	19° Π 47'21 0°18'36	opposition	11175 Sep 03 13:44	21° H 29'30	0°25'35
max. Earth dist.	11169 Sep 02 12:15	20° Π 03'46 5.89762 AU	min. Earth dist.	11175 Sep 04 06:51	21° H 24'00	4.50645 AU
morning rise	11169 Sep 14 21:13	23° Π 05'08	direct	11175 Nov 05 03:00	16° H 28'17	
	11169 Oct 14 04:54	0° Ω		11176 Feb 20 22:57	0° Υ	
retrograde	11170 Jan 24 20:29	13° Ω 57'03	evening set	11176 Mar 09 02:15	3° Υ 35'47	
min. Earth dist.	11170 Mar 23 23:31	9° Ω 04'02 3.91964 AU	max. Earth dist.	11176 Mar 20 11:48	6° Υ 02'30	6.48739 AU
opposition	11170 Mar 25 03:11	8° Ω 54'39 -0°08'07				
direct	11170 May 22 02:31	3° Ω 59'13	conjunction	11176 Mar 22 00:32	6° Υ 22'17	0°07'24
asc. node	11170 Jun 12 15:13	4° Ω 46'49	minimum elong	11176 Mar 22 00:32	6° Υ 22'17	0°07'24
evening set	11170 Sep 26 05:23	23° Ω 57'15	behind sun begin	11176 Mar 21 17:14	6° Υ 18'23	
			behind sun end	11176 Mar 22 07:50	6° Υ 26'11	
conjunction	11170 Oct 09 19:32	27° Ω 12'37 0°07'43	morning rise	11176 Apr 03 20:49	9° Υ 07'59	
minimum elong	11170 Oct 09 19:32	27° Ω 12'37 0°07'57	retrograde	11176 Aug 02 19:34	25° Υ 53'02	
behind sun begin	11170 Oct 09 12:03	27° Ω 08'09	desc. node	11176 Aug 05 07:27	25° Υ 52'28	
behind sun end	11170 Oct 10 03:00	27° Ω 17'05	opposition	11176 Oct 02 21:13	20° Υ 59'45	-0°04'49
max. Earth dist.	11170 Oct 12 02:25	27° Ω 45'32 5.96762 AU	min. Earth dist.	11176 Oct 04 06:08	20° Υ 49'14	4.44807 AU
	11170 Oct 21 11:16	0° Π	direct	11176 Dec 04 10:42	15° Υ 58'59	
morning rise	11170 Oct 23 11:26	0° Π 28'40		11177 Mar 23 09:24	0° B	
	11170 Dec 31 06:42	15° Π	evening set	11177 Apr 08 10:55	3° B 27'13	
retrograde	11171 Mar 02 12:15	20° Π 36'00	max. Earth dist.	11177 Apr 19 00:55	5° B 46'45	6.38978 AU
min. Earth dist.	11171 Apr 29 10:02	15° Π 45'18 4.03677 AU				
opposition	11171 May 01 01:15	15° Π 32'00 0°30'06	conjunction	11177 Apr 21 06:35	6° B 16'21	-0°14'08
	11171 May 04 23:50	15° $\text{R}\Pi$	minimum elong	11177 Apr 21 06:34	6° B 16'20	0°14'28
direct	11171 Jun 28 12:40	10° Π 34'37	behind sun begin	11177 Apr 21 02:55	6° B 14'20	
	11171 Aug 21 04:11	15° Π	behind sun end	11177 Apr 21 10:14	6° B 18'21	
evening set	11171 Nov 02 08:24	29° Π 47'09	morning rise	11177 May 04 01:01	9° B 05'04	
	11171 Nov 03 06:45	0° Z		11177 May 31 19:34	15° B	
			retrograde	11177 Sep 03 20:07	26° B 30'45	
conjunction	11171 Nov 15 22:40	2° Z 55'29 0°29'54	opposition	11177 Nov 03 16:33	21° B 37'27	-0°35'15
minimum elong	11171 Nov 15 22:39	2° Z 55'28 0°30'27	min. Earth dist.	11177 Nov 05 08:07	21° B 24'44	4.31651 AU
max. Earth dist.	11171 Nov 18 09:38	3° Z 29'33 6.11951 AU	direct	11178 Jan 04 13:55	16° B 37'39	
morning rise	11171 Nov 29 13:41	6° Z 03'46		11178 Apr 18 08:29	0° Π	
retrograde	11172 Apr 04 10:15	24° Z 57'22	evening set	11178 May 09 23:04	4° Π 46'54	
min. Earth dist.	11172 Jun 01 23:13	20° Z 05'57 4.20704 AU	max. Earth dist.	11178 May 20 12:20	7° Π 11'03	6.23343 AU
opposition	11172 Jun 03 09:56	19° Z 54'18 0°54'51				
direct	11172 Aug 02 02:23	14° Z 54'52	conjunction	11178 May 22 18:30	7° Π 42'00	-0°32'23
	11172 Nov 21 13:09	0° Ξ	minimum elong	11178 May 22 18:30	7° Π 42'00	0°32'57

morning rise	11178 Jun 04 13:19	10° Π 37'11	min. Earth dist.	11184 Jun 06 11:20	24° X 42'06	4.22541 AU
retrograde	11178 Oct 08 08:22	29° Π 08'39	opposition	11184 Jun 07 21:03	24° X 30'48	0°56'44
opposition	11178 Dec 07 18:34	24° Π 14'18 -0°57'08	direct	11184 Aug 06 16:33	19° X 31'14	
min. Earth dist.	11178 Dec 09 05:26	24° Π 02'59 4.14553 AU		11184 Nov 04 05:25	0° Z	
direct	11179 Feb 06 11:10	19° Π 16'19	evening set	11184 Dec 10 21:09	7° Z 44'51	
	11179 May 06 10:06	0° Z				
evening set	11179 Jun 12 11:08	8° Z 18'47	conjunction	11184 Dec 24 07:52	10° Z 43'22	0°41'14
max. Earth dist.	11179 Jun 23 16:54	10° Z 58'26 6.06177 AU	minimum elong	11184 Dec 24 07:52	10° Z 43'22	0°41'53
			max. Earth dist.	11184 Dec 26 00:13	11° Z 05'43	6.31018 AU
conjunction	11179 Jun 25 09:03	11° Z 22'15 -0°41'09	morning rise	11185 Jan 06 17:59	13° Z 41'14	
minimum elong	11179 Jun 25 09:03	11° Z 22'15 0°41'49		11185 Apr 11 06:59	0° \approx	
morning rise	11179 Jul 08 07:55	14° Z 26'31	retrograde	11185 May 10 03:45	1° \approx 17'43	
	11179 Sep 22 11:23	0° Ω		11185 Jun 07 20:33	30° R Z	
retrograde	11179 Nov 14 12:19	4° Ω 13'50	opposition	11185 Jul 09 15:24	26° Z 17'54	0°59'55
	11180 Jan 07 23:15	30° R Z	min. Earth dist.	11185 Jul 08 20:57	26° Z 23'58	4.38407 AU
opposition	11180 Jan 13 08:53	29° Z 17'21 -1°00'38	direct	11185 Sep 08 18:10	21° Z 17'06	
min. Earth dist.	11180 Jan 14 01:47	29° Z 11'45 3.98793 AU		11185 Nov 29 19:29	0° \approx	
direct	11180 Mar 12 16:05	24° Z 21'21	evening set	11186 Jan 12 07:59	8° \approx 48'17	
	11180 May 12 10:10	0° Ω				
evening set	11180 Jul 17 07:52	14° Ω 12'22	conjunction	11186 Jan 25 14:12	11° \approx 39'35	0°37'43
	11180 Jul 20 14:27	15° Ω	minimum elong	11186 Jan 25 14:13	11° \approx 39'35	0°38'16
			max. Earth dist.	11186 Jan 26 04:23	11° \approx 47'13	6.44400 AU
conjunction	11180 Jul 30 11:38	17° Ω 24'24 -0°35'17	morning rise	11186 Feb 07 18:37	14° \approx 29'53	
minimum elong	11180 Jul 30 11:39	17° Ω 24'24 0°35'47		11186 Feb 10 02:59	15° \approx	
max. Earth dist.	11180 Jul 30 04:31	17° Ω 20'04 5.93360 AU		11186 May 10 09:37	0° H	
morning rise	11180 Aug 12 17:06	20° Ω 37'36	retrograde	11186 Jun 09 00:45	1° H 20'28	
	11180 Sep 22 07:38	0° H		11186 Jul 08 14:32	30° R \approx	
retrograde	11180 Dec 22 08:34	11° H 21'06	opposition	11186 Aug 08 22:06	26° \approx 23'47	0°46'31
opposition	11181 Feb 19 17:58	6° H 21'32 -0°40'12	min. Earth dist.	11186 Aug 08 22:14	26° \approx 23'44	4.48490 AU
min. Earth dist.	11181 Feb 19 10:29	6° H 24'03 3.90373 AU	direct	11186 Oct 10 00:25	21° \approx 22'34	
direct	11181 Apr 18 23:27	1° H 26'42		11186 Dec 31 13:41	0° H	
evening set	11181 Aug 24 01:38	21° H 38'45	evening set	11187 Feb 12 04:09	8° H 31'06	
conjunction	11181 Sep 06 11:58	24° H 55'31 -0°15'08	conjunction	11187 Feb 25 05:37	11° H 18'13	0°24'09
minimum elong	11181 Sep 06 11:59	24° H 55'31 0°15'15	minimum elong	11187 Feb 25 05:38	11° H 18'14	0°24'24
behind sun begin	11181 Sep 06 09:21	24° H 53'55	max. Earth dist.	11187 Feb 24 13:42	11° H 09'43	6.50500 AU
behind sun end	11181 Sep 06 14:36	24° H 57'07	morning rise	11187 Mar 10 05:12	14° H 04'25	
max. Earth dist.	11181 Sep 07 17:55	25° H 13'49 5.90212 AU		11187 Jun 18 05:19	0° Y	
morning rise	11181 Sep 20 00:37	28° H 13'27	retrograde	11187 Jul 08 16:51	0° Y 38'32	
	11181 Sep 27 09:14	0° Z		11187 Jul 29 01:59	30° R H	
retrograde	11182 Jan 29 20:14	19° Z 02'07	opposition	11187 Sep 07 18:19	25° H 44'09	0°21'33
min. Earth dist.	11182 Mar 28 21:31	14° Z 09'41 3.92968 AU	min. Earth dist.	11187 Sep 08 14:20	25° H 37'44	4.50336 AU
opposition	11182 Mar 30 03:37	13° Z 59'28 -0°02'44	direct	11187 Nov 09 09:51	20° H 42'57	
asc. node	11182 Apr 25 16:38	10° Z 42'52		11188 Feb 03 12:56	0° Y	
direct	11182 May 27 02:26	9° Z 03'51	evening set	11188 Mar 13 07:18	7° Y 51'45	
evening set	11182 Oct 01 06:08	28° Z 57'51	max. Earth dist.	11188 Mar 24 13:03	10° Y 16'46	6.47927 AU
	11182 Oct 05 14:30	0° H				
			conjunction	11188 Mar 26 05:08	10° Y 38'23	0°04'25
conjunction	11182 Oct 14 20:29	2° H 12'38 0°11'06	minimum elong	11188 Mar 26 05:07	10° Y 38'22	0°04'21
minimum elong	11182 Oct 14 20:29	2° H 12'38 0°11'25	behind sun begin	11188 Mar 25 21:16	10° Y 34'10	
behind sun begin	11182 Oct 14 14:27	2° H 09'03	behind sun end	11188 Mar 26 12:59	10° Y 42'35	
behind sun end	11182 Oct 15 02:30	2° H 16'13	morning rise	11188 Apr 08 01:05	13° Y 24'15	
max. Earth dist.	11182 Oct 17 03:13	2° H 45'21 5.98209 AU	desc. node	11188 Jun 15 11:43	26° Y 14'14	
morning rise	11182 Oct 28 12:38	5° H 28'04		11188 Jul 26 10:31	0° Z	
	11182 Dec 10 00:04	15° H	retrograde	11188 Aug 07 02:53	0° Z 12'45	
retrograde	11183 Mar 07 05:08	25° H 27'54		11188 Aug 18 19:38	30° R Y	
min. Earth dist.	11183 May 04 04:43	20° H 36'57 4.05399 AU	opposition	11188 Oct 07 05:00	25° Y 19'27	-0°09'15
opposition	11183 May 05 19:05	20° H 23'56 0°34'25	min. Earth dist.	11188 Oct 08 14:35	25° Y 08'42	4.43513 AU
direct	11183 Jul 03 10:04	15° H 26'16	direct	11188 Dec 08 16:50	20° Y 18'43	
	11183 Oct 17 22:53	0° X		11189 Mar 06 01:39	0° Z	
evening set	11183 Nov 07 04:25	4° X 33'25	evening set	11189 Apr 12 17:52	7° Z 50'55	
			max. Earth dist.	11189 Apr 23 08:04	10° Z 11'05	6.37263 AU
conjunction	11183 Nov 20 18:43	7° X 40'52 0°32'06	conjunction	11189 Apr 25 13:25	10° Z 40'37	-0°17'00
minimum elong	11183 Nov 20 18:42	7° X 40'52 0°32'41	minimum elong	11189 Apr 25 13:24	10° Z 40'36	0°17'24
max. Earth dist.	11183 Nov 23 05:39	8° X 14'47 6.13813 AU	morning rise	11189 May 08 07:33	13° Z 29'55	
morning rise	11183 Dec 04 09:15	10° X 48'09		11189 May 15 03:59	15° Z	
retrograde	11184 Apr 08 20:41	29° X 33'28				

	11189 Aug 13 08:08	0°♂	morning rise	11194 Nov 02 19:00	10°♂40'10	
retrograde	11189 Sep 08 10:30	1°♂02'42		11194 Nov 21 11:25	15°♂	
	11189 Oct 04 12:59	30°♂		11195 Feb 22 09:00	0°♂	
opposition	11189 Nov 08 06:16	26°♂09'20 -0°39'01	retrograde	11195 Mar 12 02:58	0°♂31'04	
min. Earth dist.	11189 Nov 09 22:22	25°♂56'27 4.29597 AU		11195 Mar 29 17:19	30°♂♂	
direct	11190 Jan 09 00:57	21°♂09'45	min. Earth dist.	11195 May 09 02:28	25°♂40'19 4.07499 AU	
	11190 Mar 31 06:55	0°♂	opposition	11195 May 10 17:19	25°♂27'09 0°38'39	
evening set	11190 May 14 11:12	9°♂25'17	direct	11195 Jul 08 11:21	20°♂29'15	
max. Earth dist.	11190 May 24 23:58	11°♂49'56 6.21087 AU		11195 Sep 29 06:19	0°♂	
			evening set	11195 Nov 12 04:28	9°♂29'12	
conjunction	11190 May 27 06:37	12°♂21'19 -0°34'17				
minimum elong	11190 May 27 06:36	12°♂21'19 0°34'54	conjunction	11195 Nov 25 18:16	12°♂35'25 0°34'09	
morning rise	11190 Jun 09 01:55	15°♂17'36	minimum elong	11195 Nov 25 18:15	12°♂35'24 0°34'47	
	11190 Aug 22 11:05	0°♂	max. Earth dist.	11195 Nov 28 03:19	13°♂08'03 6.16180 AU	
retrograde	11190 Oct 13 07:29	3°♂58'55	morning rise	11195 Dec 09 08:28	15°♂41'26	
	11190 Dec 05 11:44	30°♂♂		11196 Feb 19 19:41	0°♂	
opposition	11190 Dec 12 16:06	29°♂04'17 -0°58'53	retrograde	11196 Apr 13 08:26	4°♂16'23	
min. Earth dist.	11190 Dec 14 01:01	28°♂53'34 4.12256 AU		11196 Jun 06 16:54	30°♂♂	
direct	11191 Feb 11 04:22	24°♂06'29	min. Earth dist.	11196 Jun 11 02:30	29°♂24'50 4.24976 AU	
	11191 Apr 15 12:42	0°♂	opposition	11196 Jun 12 10:59	29°♂13'58 0°58'19	
evening set	11191 Jun 17 06:19	13°♂16'09	direct	11196 Aug 11 10:59	24°♂14'09	
max. Earth dist.	11191 Jun 28 17:25	15°♂59'39 6.04053 AU		11196 Oct 14 06:56	0°♂	
			evening set	11196 Dec 15 13:08	12°♂20'31	
conjunction	11191 Jun 30 05:01	16°♂20'53 -0°41'15				
minimum elong	11191 Jun 30 05:01	16°♂20'53 0°41'55	conjunction	11196 Dec 28 23:20	15°♂17'50 0°41'28	
morning rise	11191 Jul 13 04:30	19°♂26'24	minimum elong	11196 Dec 28 23:20	15°♂17'50 0°42'07	
	11191 Aug 29 14:08	0°♂	max. Earth dist.	11196 Dec 30 14:01	15°♂39'09 6.33354 AU	
retrograde	11191 Nov 19 20:01	9°♂23'19	morning rise	11197 Jan 11 08:29	18°♂14'22	
opposition	11192 Jan 18 13:58	4°♂26'28 -0°59'11		11197 Mar 11 22:15	0°♂	
min. Earth dist.	11192 Jan 19 04:42	4°♂21'35 3.97055 AU	retrograde	11197 May 14 09:10	5°♂42'08	
	11192 Feb 29 14:24	30°♂♂	opposition	11197 Jul 13 22:27	0°♂42'45 0°58'55	
direct	11192 Mar 17 16:57	29°♂30'42	min. Earth dist.	11197 Jul 13 05:54	0°♂48'11 4.40469 AU	
	11192 Apr 03 18:16	0°♂		11197 Jul 19 09:08	30°♂♂	
	11192 Jul 03 19:22	15°♂	direct	11197 Sep 13 05:14	25°♂41'52	
evening set	11192 Jul 22 10:36	19°♂26'51		11197 Nov 07 16:17	0°♂	
			evening set	11198 Jan 16 16:50	13°♂07'36	
conjunction	11192 Aug 04 15:11	22°♂39'52 -0°33'12		11198 Jan 25 10:27	15°♂	
minimum elong	11192 Aug 04 15:12	22°♂39'53 0°33'40				
max. Earth dist.	11192 Aug 04 11:43	22°♂37'45 5.92173 AU	conjunction	11198 Jan 29 22:09	15°♂57'56 0°36'21	
morning rise	11192 Aug 17 21:52	25°♂54'09	minimum elong	11198 Jan 29 22:10	15°♂57'56 0°36'52	
	11192 Sep 04 00:46	0°♂	max. Earth dist.	11198 Jan 30 07:08	16°♂02'45 6.46034 AU	
retrograde	11192 Dec 27 17:02	16°♂42'16	morning rise	11198 Feb 12 01:58	18°♂47'20	
opposition	11193 Feb 25 02:09	11°♂42'14 -0°35'40		11198 Apr 11 02:59	0°♂	
min. Earth dist.	11193 Feb 24 14:25	11°♂46'11 3.89902 AU	retrograde	11198 Jun 13 03:27	5°♂32'46	
direct	11193 Apr 24 04:39	6°♂47'23	opposition	11198 Aug 13 01:23	0°♂36'24 0°43'37	
evening set	11193 Aug 29 08:52	26°♂59'59	min. Earth dist.	11198 Aug 13 04:55	0°♂35'15 4.49596 AU	
	11193 Sep 10 16:12	0°♂		11198 Aug 17 18:11	30°♂♂	
			direct	11198 Oct 14 07:14	25°♂35'06	
conjunction	11193 Sep 11 19:59	0°♂16'58 -0°11'34		11198 Dec 10 04:15	0°♂	
minimum elong	11193 Sep 11 20:00	0°♂16'58 0°11'39	evening set	11199 Feb 16 07:57	12°♂41'05	
behind sun begin	11193 Sep 11 14:05	0°♂13'23				
behind sun end	11193 Sep 12 01:54	0°♂20'34	conjunction	11199 Mar 01 08:56	15°♂27'48 0°21'42	
max. Earth dist.	11193 Sep 13 05:51	0°♂37'39 5.90504 AU	minimum elong	11199 Mar 01 08:57	15°♂27'48 0°21'55	
morning rise	11193 Sep 25 09:25	3°♂35'05	max. Earth dist.	11199 Feb 28 14:10	15°♂17'47 6.50992 AU	
retrograde	11194 Feb 04 01:15	24°♂20'40	morning rise	11199 Mar 14 07:47	18°♂13'33	
asc. node	11194 Mar 06 23:44	22°♂46'37		11199 May 15 11:48	0°♂	
min. Earth dist.	11194 Apr 03 01:27	19°♂28'23 3.93981 AU	retrograde	11199 Jul 12 17:37	4°♂46'51	
opposition	11194 Apr 04 08:59	19°♂17'39 0°02'55		11199 Sep 10 21:59	30°♂♂	
direct	11194 Jun 01 09:17	14°♂21'46	opposition	11199 Sep 11 20:57	29°♂52'39 0°17'32	
	11194 Sep 18 13:41	0°♂	min. Earth dist.	11199 Sep 12 18:31	29°♂45'45 4.50180 AU	
evening set	11194 Oct 06 12:06	4°♂11'22	direct	11199 Nov 13 12:12	24°♂51'28	
				11200 Jan 14 08:40	0°♂	
conjunction	11194 Oct 20 02:54	7°♂25'33 0°14'34	evening set	11200 Mar 17 09:59	12°♂01'15	
minimum elong	11194 Oct 20 02:53	7°♂25'32 0°14'56	max. Earth dist.	11200 Mar 28 12:31	14°♂24'51 6.47117 AU	
behind sun begin	11194 Oct 19 23:56	7°♂23'47				
behind sun end	11194 Oct 20 05:50	7°♂27'17	conjunction	11200 Mar 30 07:18	14°♂47'59 0°01'28	
max. Earth dist.	11194 Oct 22 13:11	8°♂00'13 5.99852 AU	minimum elong	11200 Mar 30 07:17	14°♂47'59 0°01'21	

behind sun begin	11200 Mar 29 23:18	14° Υ 43'41	behind sun end	11205 Sep 17 14:49	5° Ω 50'40	
behind sun end	11200 Mar 30 15:17	14° Υ 52'17	max. Earth dist.	11205 Sep 18 23:44	6° Ω 10'44	5.90918 AU
morning rise	11200 Apr 12 02:51	17° Υ 34'00	morning rise	11205 Sep 30 21:25	9° Ω 04'21	
desc. node	11200 Apr 26 01:42	20° Υ 31'53	asc. node	11206 Jan 15 08:45	28° Ω 44'11	
	11200 Jun 16 13:06	0° \mathcal{B}	retrograde	11206 Feb 09 09:05	29° Ω 45'46	
retrograde	11200 Aug 11 09:48	4° \mathcal{B} 26'19	min. Earth dist.	11206 Apr 08 06:43	24° Ω 54'02	3.95275 AU
	11200 Oct 07 22:30	30° $\mathcal{R}\Upsilon$	opposition	11206 Apr 09 16:47	24° Ω 42'28	0°08'35
opposition	11200 Oct 11 10:52	29° Υ 33'06	direct	11206 Jun 06 17:45	19° Ω 46'23	
min. Earth dist.	11200 Oct 12 23:17	29° Υ 21'28		11206 Aug 30 11:45	0° \mathcal{M}	
direct	11200 Dec 12 22:26	24° Υ 32'26	evening set	11206 Oct 11 20:26	9° \mathcal{M} 30'17	
	11201 Feb 14 02:44	0° \mathcal{B}				
evening set	11201 Apr 16 23:02	12° \mathcal{B} 09'22	conjunction	11206 Oct 25 11:10	12° \mathcal{M} 43'31	0°17'57
max. Earth dist.	11201 Apr 27 10:07	14° \mathcal{B} 28'27	minimum elong	11206 Oct 25 11:09	12° \mathcal{M} 43'30	0°18'21
		6.35263 AU	max. Earth dist.	11206 Oct 27 22:32	13° \mathcal{M} 18'39	6.01851 AU
conjunction	11201 Apr 29 18:23	14° \mathcal{B} 59'45		11206 Nov 04 02:10	15° \mathcal{M}	
minimum elong	11201 Apr 29 18:22	14° \mathcal{B} 59'44	morning rise	11206 Nov 08 03:24	15° \mathcal{M} 57'09	
	11201 Apr 29 18:51	15° \mathcal{B}		11207 Jan 14 09:32	0° \mathcal{X}	
morning rise	11201 May 12 12:38	17° \mathcal{B} 49'51	retrograde	11207 Mar 16 23:23	5° \mathcal{X} 37'31	
	11201 Jul 12 14:49	0° \mathcal{I}	min. Earth dist.	11207 May 14 00:55	0° \mathcal{X} 46'56	4.09960 AU
retrograde	11201 Sep 13 00:13	5° \mathcal{I} 31'07	opposition	11207 May 15 16:19	0° \mathcal{X} 33'36	0°42'34
opposition	11201 Nov 12 18:58	0° \mathcal{I} 37'37		11207 May 19 19:52	30° $\mathcal{R}\mathcal{M}$	
min. Earth dist.	11201 Nov 14 10:46	0° \mathcal{I} 24'49	direct	11207 Jul 13 14:18	25° \mathcal{M} 35'20	
	11201 Nov 17 16:07	30° $\mathcal{R}\mathcal{B}$		11207 Sep 05 14:38	0° \mathcal{X}	
direct	11202 Jan 13 09:22	25° \mathcal{B} 38'11	evening set	11207 Nov 17 05:07	14° \mathcal{X} 26'54	
	11202 Mar 09 07:53	0° \mathcal{I}				
evening set	11202 May 18 22:28	14° \mathcal{I} 01'38	conjunction	11207 Nov 30 18:35	17° \mathcal{X} 31'44	0°35'58
max. Earth dist.	11202 May 29 13:45	16° \mathcal{I} 28'34	minimum elong	11207 Nov 30 18:34	17° \mathcal{X} 31'44	0°36'37
		6.18389 AU	max. Earth dist.	11207 Dec 03 02:36	18° \mathcal{X} 03'37	6.18868 AU
conjunction	11202 May 31 18:18	16° \mathcal{I} 58'56	morning rise	11207 Dec 14 08:00	20° \mathcal{X} 36'14	
minimum elong	11202 May 31 18:18	16° \mathcal{I} 58'56		11208 Jan 27 14:58	0° \mathcal{Z}	
morning rise	11202 Jun 13 13:54	19° \mathcal{I} 56'30	retrograde	11208 Apr 17 21:34	8° \mathcal{Z} 59'52	
	11202 Jul 30 03:51	0° \mathcal{E}	min. Earth dist.	11208 Jun 15 18:31	4° \mathcal{Z} 07'55	4.27615 AU
retrograde	11202 Oct 18 09:30	8° \mathcal{E} 49'41	opposition	11208 Jun 17 00:51	3° \mathcal{Z} 57'48	0°59'29
opposition	11202 Dec 17 14:22	3° \mathcal{E} 54'54		11208 Jul 21 16:06	30° $\mathcal{R}\mathcal{X}$	
min. Earth dist.	11202 Dec 18 22:39	3° \mathcal{E} 44'22	direct	11208 Aug 16 05:59	28° \mathcal{X} 57'46	
	11203 Jan 21 07:12	30° $\mathcal{R}\mathcal{I}$		11208 Sep 11 01:34	0° \mathcal{Z}	
direct	11203 Feb 15 21:55	28° \mathcal{I} 57'25	evening set	11208 Dec 20 04:53	16° \mathcal{Z} 56'32	
	11203 Mar 13 09:33	0° \mathcal{E}				
evening set	11203 Jun 22 02:53	18° \mathcal{E} 16'11	conjunction	11209 Jan 02 14:19	19° \mathcal{Z} 52'34	0°41'25
max. Earth dist.	11203 Jul 03 16:47	21° \mathcal{E} 02'20	minimum elong	11209 Jan 02 14:19	19° \mathcal{Z} 52'34	0°42'04
		6.01498 AU	max. Earth dist.	11209 Jan 04 00:45	20° \mathcal{Z} 11'28	6.35718 AU
conjunction	11203 Jul 05 02:15	21° \mathcal{E} 22'24	morning rise	11209 Jan 15 22:47	22° \mathcal{Z} 47'51	
minimum elong	11203 Jul 05 02:16	21° \mathcal{E} 22'24		11209 Feb 19 11:51	0° \approx	
morning rise	11203 Jul 18 02:50	24° \mathcal{E} 29'33	retrograde	11209 May 18 14:15	10° \approx 07'17	
	11203 Aug 10 17:12	0° \mathcal{Q}	opposition	11209 Jul 18 05:34	5° \approx 08'17	0°57'33
retrograde	11203 Nov 25 04:08	14° \mathcal{Q} 37'53	min. Earth dist.	11209 Jul 17 15:37	5° \approx 12'51	4.42403 AU
opposition	11204 Jan 23 20:58	9° \mathcal{Q} 40'40	direct	11209 Sep 17 15:50	0° \approx 07'15	
min. Earth dist.	11204 Jan 24 07:21	9° \mathcal{Q} 37'13		11210 Jan 09 08:36	15° \approx	
direct	11204 Mar 22 17:59	4° \mathcal{Q} 45'11	evening set	11210 Jan 21 01:31	17° \approx 28'12	
	11204 Jun 15 04:03	15° \mathcal{Q}				
evening set	11204 Jul 27 16:20	24° \mathcal{Q} 48'02	conjunction	11210 Feb 03 06:17	20° \approx 17'45	0°34'45
			minimum elong	11210 Feb 03 06:18	20° \approx 17'46	0°35'13
conjunction	11204 Aug 09 22:00	28° \mathcal{Q} 02'14	max. Earth dist.	11210 Feb 03 12:08	20° \approx 20'54	6.47411 AU
minimum elong	11204 Aug 09 22:01	28° \mathcal{Q} 02'15	morning rise	11210 Feb 16 09:09	23° \approx 06'19	
max. Earth dist.	11204 Aug 10 00:33	28° \mathcal{Q} 03'48		11210 Mar 22 03:03	0° \mathcal{H}	
	11204 Aug 17 22:19	0° \mathcal{M}	retrograde	11210 Jun 17 05:59	9° \mathcal{H} 47'40	
morning rise	11204 Aug 23 05:46	1° \mathcal{M} 17'43	opposition	11210 Aug 17 05:19	4° \mathcal{H} 51'42	0°40'26
retrograde	11205 Jan 02 06:00	22° \mathcal{M} 11'07	min. Earth dist.	11210 Aug 17 11:21	4° \mathcal{H} 49'45	4.50345 AU
opposition	11205 Mar 02 13:21	17° \mathcal{M} 10'37		11210 Oct 08 05:56	30° $\mathcal{R}\approx$	
min. Earth dist.	11205 Mar 01 22:29	17° \mathcal{M} 15'38	direct	11210 Oct 18 13:03	29° \approx 50'24	
direct	11205 Apr 29 14:37	12° \mathcal{M} 15'45		11210 Oct 28 21:42	0° \mathcal{H}	
	11205 Aug 24 11:56	0° \mathcal{Q}	evening set	11211 Feb 20 13:13	16° \mathcal{H} 55'06	
evening set	11205 Sep 03 19:15	2° \mathcal{Q} 28'54				
conjunction	11205 Sep 17 07:20	5° \mathcal{Q} 46'07	conjunction	11211 Mar 05 13:27	19° \mathcal{H} 41'32	0°19'04
minimum elong	11205 Sep 17 07:19	5° \mathcal{Q} 46'07	minimum elong	11211 Mar 05 13:27	19° \mathcal{H} 41'32	0°19'15
behind sun begin	11205 Sep 16 23:50	5° \mathcal{Q} 41'34	max. Earth dist.	11211 Mar 04 13:16	19° \mathcal{H} 28'37	6.51056 AU
			morning rise	11211 Mar 18 11:52	22° \mathcal{H} 27'05	

	11211 Apr 24 19:09	0°♈	retrograde	11217 Jan 07 18:29	27°♏41'37	
retrograde	11211 Jul 16 23:35	9°♈00'58	min. Earth dist.	11217 Mar 07 06:23	22°♏46'59	3.89654 AU
opposition	11211 Sep 16 01:47	4°♈06'58 0°13'18	opposition	11217 Mar 08 01:11	22°♏40'38	-0°25'32
min. Earth dist.	11211 Sep 17 02:48	3°♈58'57 4.49562 AU	direct	11217 May 05 00:11	17°♏45'46	
	11211 Oct 24 00:55	30°♏		11217 Aug 06 05:21	0°♏	
direct	11211 Nov 17 18:06	29°♏05'43	evening set	11217 Sep 09 05:53	7°♏56'17	
	11211 Dec 12 13:59	0°♈				
desc. node	11212 Mar 03 22:13	12°♈33'42	conjunction	11217 Sep 22 18:22	11°♏13'10	-0°04'09
evening set	11212 Mar 21 15:03	16°♈17'57	minimum elong	11217 Sep 22 18:23	11°♏13'10	0°04'05
max. Earth dist.	11212 Apr 01 14:36	18°♈40'20 6.45849 AU	behind sun begin	11217 Sep 22 10:07	11°♏08'11	
			behind sun end	11217 Sep 23 02:38	11°♏18'10	
conjunction	11212 Apr 03 12:07	19°♈05'01 -0°01'40	max. Earth dist.	11217 Sep 24 13:59	11°♏39'40	5.92088 AU
minimum elong	11212 Apr 03 12:07	19°♈05'00 0°01'51	morning rise	11217 Oct 06 09:10	14°♏31'04	
behind sun begin	11212 Apr 03 04:07	19°♈00'42	asc. node	11217 Nov 24 20:45	25°♏39'47	
behind sun end	11212 Apr 03 20:06	19°♈09'19		11217 Dec 18 15:25	0°♏	
morning rise	11212 Apr 16 07:19	21°♈51'23	retrograde	11218 Feb 14 12:18	5°♏05'03	
	11212 May 26 02:10	0°♏	min. Earth dist.	11218 Apr 13 09:47	0°♏13'50	3.97205 AU
retrograde	11212 Aug 15 19:03	8°♏49'00	opposition	11218 Apr 14 22:10	0°♏01'28	0°14'03
opposition	11212 Oct 15 20:18	3°♏55'45 -0°17'55		11218 Apr 15 02:28	30°♏	
min. Earth dist.	11212 Oct 17 09:11	3°♏43'57 4.40224 AU	direct	11218 Jun 12 01:27	25°♏05'03	
	11212 Nov 20 07:39	30°♏		11218 Aug 07 08:18	0°♏	
direct	11212 Dec 17 04:31	28°♈55'10	evening set	11218 Oct 17 02:03	14°♏41'14	
	11213 Jan 13 03:58	0°♏		11218 Oct 18 10:06	15°♏	
	11213 Apr 13 21:52	15°♏				
evening set	11213 Apr 21 07:56	16°♏37'57	conjunction	11218 Oct 30 16:52	17°♏53'18	0°21'06
max. Earth dist.	11213 May 01 18:55	18°♏57'42 6.32969 AU	minimum elong	11218 Oct 30 16:51	17°♏53'17	0°21'33
			max. Earth dist.	11218 Nov 02 05:29	18°♏28'58	6.04342 AU
conjunction	11213 May 04 03:11	19°♏29'10 -0°22'26	morning rise	11218 Nov 13 08:46	21°♏05'36	
minimum elong	11213 May 04 03:10	19°♏29'10 0°22'54		11218 Dec 23 12:58	0°♏	
morning rise	11213 May 16 21:25	22°♏20'11	retrograde	11219 Mar 21 18:22	10°♏34'07	
	11213 Jun 21 20:27	0°♏	min. Earth dist.	11219 May 18 21:54	5°♏43'12	4.12719 AU
retrograde	11213 Sep 17 20:33	10°♏10'56	opposition	11219 May 20 11:57	5°♏30'21	0°46'02
opposition	11213 Nov 17 12:28	5°♏17'20 -0°45'55	direct	11219 Jul 18 14:56	0°♏31'48	
min. Earth dist.	11213 Nov 19 05:03	5°♏04'15 4.24544 AU	evening set	11219 Nov 22 01:54	19°♏14'22	
direct	11214 Jan 17 23:39	0°♏18'05				
evening set	11214 May 23 14:34	18°♏49'49	conjunction	11219 Dec 05 14:49	22°♏17'47	0°37'29
max. Earth dist.	11214 Jun 03 06:32	21°♏18'05 6.15678 AU	minimum elong	11219 Dec 05 14:49	22°♏17'47	0°38'08
			max. Earth dist.	11219 Dec 07 20:52	22°♏48'19	6.21638 AU
conjunction	11214 Jun 05 10:42	21°♏48'24 -0°37'29	morning rise	11219 Dec 19 03:39	25°♏20'47	
minimum elong	11214 Jun 05 10:42	21°♏48'24 0°38'09		11220 Jan 09 08:47	0°♏	
morning rise	11214 Jun 18 06:55	24°♏47'22	retrograde	11220 Apr 22 04:43	13°♏33'28	
	11214 Jul 11 07:05	0°♏	min. Earth dist.	11220 Jun 20 06:15	8°♏41'25	4.30171 AU
retrograde	11214 Oct 23 13:13	13°♏52'16	opposition	11220 Jun 21 11:09	8°♏31'48	1°00'13
opposition	11214 Dec 22 17:13	8°♏57'11 -1°01'17	direct	11220 Aug 20 19:51	3°♏31'37	
min. Earth dist.	11214 Dec 23 22:13	8°♏47'42 4.06932 AU	evening set	11220 Dec 24 17:09	21°♏23'27	
direct	11215 Feb 20 18:32	4°♏00'00				
evening set	11215 Jun 27 03:55	23°♏27'03	conjunction	11221 Jan 07 01:56	24°♏18'21	0°41'07
max. Earth dist.	11215 Jul 09 00:01	26°♏17'42 5.99325 AU	minimum elong	11221 Jan 07 01:56	24°♏18'21	0°41'46
			max. Earth dist.	11221 Jan 08 07:59	24°♏34'46	6.37876 AU
conjunction	11215 Jul 10 04:07	26°♏34'38 -0°40'34	morning rise	11221 Jan 20 09:33	27°♏12'26	
minimum elong	11215 Jul 10 04:07	26°♏34'38 0°41'12		11221 Feb 02 10:29	0°♏	
morning rise	11215 Jul 23 05:35	29°♏43'12	retrograde	11221 May 22 18:12	14°♏24'40	
	11215 Jul 24 09:40	0°♏	opposition	11221 Jul 22 10:00	9°♏26'13	0°55'56
	11215 Oct 03 20:40	15°♏	min. Earth dist.	11221 Jul 21 23:35	9°♏29'37	4.44022 AU
retrograde	11215 Nov 30 17:35	20°♏01'10	direct	11221 Sep 22 00:23	4°♏25'10	
opposition	11216 Jan 29 07:44	15°♏03'31 -0°54'51		11221 Dec 23 13:12	15°♏	
	11216 Jan 29 18:19	15°♏	evening set	11222 Jan 25 07:52	21°♏42'35	
min. Earth dist.	11216 Jan 29 15:02	15°♏01'05 3.93446 AU				
direct	11216 Mar 28 02:02	10°♏08'15	conjunction	11222 Feb 07 11:56	24°♏31'32	0°33'00
	11216 May 22 16:53	15°♏	minimum elong	11222 Feb 07 11:57	24°♏31'32	0°33'27
	11216 Jul 31 23:49	0°♏	max. Earth dist.	11222 Feb 07 12:08	24°♏31'38	6.48378 AU
evening set	11216 Aug 02 00:44	0°♏15'10	morning rise	11222 Feb 20 14:16	27°♏19'31	
				11222 Mar 05 07:22	0°♏	
conjunction	11216 Aug 15 07:29	3°♏30'13 -0°28'10	retrograde	11222 Jun 21 08:36	13°♏58'26	
minimum elong	11216 Aug 15 07:30	3°♏30'14 0°28'31	opposition	11222 Aug 21 07:59	9°♏02'49	0°37'07
max. Earth dist.	11216 Aug 15 16:53	3°♏35'59 5.90099 AU	min. Earth dist.	11222 Aug 21 17:05	8°♏59'53	4.50631 AU
morning rise	11216 Aug 28 16:15	6°♏46'30	direct	11222 Oct 22 17:02	4°♏01'31	

evening set	11223 Feb 24 17:01	21° H 06'30			11228 Nov 29 15:45	0° L	
				retrograde	11229 Jan 13 01:59	3° L 06'36	
conjunction	11223 Mar 09 16:56	23° H 52'56	0°16'23		11229 Feb 26 21:29	30° R H	
minimum elong	11223 Mar 09 16:57	23° H 52'56	0°16'31	min. Earth dist.	11229 Mar 12 11:44	28° H 12'39	3.90257 AU
max. Earth dist.	11223 Mar 08 14:21	23° H 38'42	6.50652 AU	opposition	11229 Mar 13 10:00	28° H 05'07	-0°20'09
morning rise	11223 Mar 22 14:43	26° H 38'27		direct	11229 May 10 08:33	23° H 10'04	
	11223 Apr 07 15:18	0° Y			11229 Jul 16 03:15	0° L	
retrograde	11223 Jul 21 04:05	13° Y 14'37		evening set	11229 Sep 14 13:31	13° L 16'58	
opposition	11223 Sep 20 06:36	8° Y 20'52	0°09'04				
min. Earth dist.	11223 Sep 21 09:22	8° Y 12'19	4.48504 AU	conjunction	11229 Sep 28 02:42	16° L 33'29	-0°00'22
direct	11223 Nov 21 21:36	3° Y 19'47		minimum elong	11229 Sep 28 02:40	16° L 33'28	0°00'13
desc. node	11224 Jan 11 20:25	6° Y 55'59		behind sun begin	11229 Sep 27 18:22	16° L 28'28	
evening set	11224 Mar 25 20:30	20° Y 35'52		behind sun end	11229 Sep 28 10:59	16° L 38'29	
max. Earth dist.	11224 Apr 05 16:41	22° Y 57'01	6.44208 AU	max. Earth dist.	11229 Sep 30 02:32	17° L 02'26	5.93437 AU
				asc. node	11229 Oct 03 14:32	17° L 53'15	
conjunction	11224 Apr 07 17:07	23° Y 23'23	-0°04'42	morning rise	11229 Oct 11 17:44	19° L 50'50	
minimum elong	11224 Apr 07 17:07	23° Y 23'23	0°04'54		11229 Nov 25 13:35	0° M	
behind sun begin	11224 Apr 07 09:21	23° Y 19'11		retrograde	11230 Feb 19 14:34	10° M 17'03	
behind sun end	11224 Apr 08 00:53	23° Y 27'36		min. Earth dist.	11230 Apr 18 11:51	5° M 25'42	3.99122 AU
morning rise	11224 Apr 20 12:13	26° Y 10'21		opposition	11230 Apr 20 00:24	5° M 13'17	0°19'19
	11224 May 08 11:12	0° B		direct	11230 Jun 17 07:02	0° M 16'33	
retrograde	11224 Aug 20 08:16	13° B 14'37			11230 Oct 01 10:12	15° M	
opposition	11224 Oct 20 07:02	8° B 21'27	-0°22'13	evening set	11230 Oct 22 04:50	19° M 45'28	
min. Earth dist.	11224 Oct 21 21:49	8° B 09'02	4.38096 AU				
direct	11224 Dec 21 13:22	3° B 21'02		conjunction	11230 Nov 04 19:33	22° M 56'25	0°24'03
	11225 Mar 28 01:11	15° B		minimum elong	11230 Nov 04 19:32	22° M 56'24	0°24'34
evening set	11225 Apr 25 18:06	21° B 10'36		max. Earth dist.	11230 Nov 07 08:43	23° M 32'12	6.06624 AU
max. Earth dist.	11225 May 06 04:43	23° B 30'55	6.30521 AU	morning rise	11230 Nov 18 11:15	26° M 07'32	
					11230 Dec 05 10:30	0° J	
conjunction	11225 May 08 13:27	24° B 02'49	-0°25'01	retrograde	11231 Mar 26 08:40	15° J 25'16	
minimum elong	11225 May 08 13:26	24° B 02'49	0°25'31	min. Earth dist.	11231 May 23 14:53	10° J 34'31	4.15145 AU
morning rise	11225 May 21 07:47	26° B 54'52		opposition	11231 May 25 04:58	10° J 21'41	0°49'09
	11225 Jun 04 06:29	0° I		direct	11231 Jul 23 10:49	5° J 22'51	
retrograde	11225 Sep 22 16:36	14° I 55'40		evening set	11231 Nov 26 21:11	23° J 57'58	
opposition	11225 Nov 22 07:37	10° I 01'55	-0°49'02				
min. Earth dist.	11225 Nov 23 22:15	9° I 49'27	4.21959 AU	conjunction	11231 Dec 10 09:33	27° J 00'08	0°38'45
direct	11226 Jan 22 13:07	5° I 03'00		minimum elong	11231 Dec 10 09:33	27° J 00'07	0°39'25
evening set	11226 May 28 08:05	23° I 42'50		max. Earth dist.	11231 Dec 12 11:39	27° J 28'18	6.24002 AU
max. Earth dist.	11226 Jun 08 03:44	26° I 14'04	6.13174 AU	morning rise	11231 Dec 23 21:45	0° Z 01'50	
					11231 Dec 23 18:28	0° Z	
conjunction	11226 Jun 10 04:34	26° I 42'38	-0°38'45	retrograde	11232 Apr 26 13:41	18° Z 05'10	
minimum elong	11226 Jun 10 04:34	26° I 42'38	0°39'24	opposition	11232 Jun 25 20:43	13° Z 03'54	1°00'38
morning rise	11226 Jun 23 01:19	29° I 42'54		min. Earth dist.	11232 Jun 24 19:03	13° Z 12'25	4.32280 AU
	11226 Jun 24 06:45	0° E		direct	11232 Aug 25 10:42	8° Z 03'31	
retrograde	11226 Oct 28 20:07	18° E 58'46		evening set	11232 Dec 29 05:08	25° Z 49'53	
opposition	11226 Dec 27 21:33	14° E 03'22	-1°01'47				
min. Earth dist.	11226 Dec 29 00:28	13° E 54'33	4.04720 AU	conjunction	11233 Jan 11 13:23	28° Z 43'52	0°40'36
direct	11227 Feb 25 19:14	9° E 06'31		minimum elong	11233 Jan 11 13:23	28° Z 43'52	0°41'13
evening set	11227 Jul 02 05:25	28° E 40'06		max. Earth dist.	11233 Jan 12 15:58	28° Z 58'21	6.39575 AU
	11227 Jul 07 18:16	0° Q			11233 Jan 17 09:18	0° W	
max. Earth dist.	11227 Jul 14 07:23	1° Q 34'54	5.97620 AU	morning rise	11233 Jan 24 20:15	1° W 37'00	
					11233 Apr 06 09:14	15° W	
conjunction	11227 Jul 15 06:28	1° Q 48'51	-0°39'43	retrograde	11233 May 26 21:14	18° W 43'28	
minimum elong	11227 Jul 15 06:29	1° Q 48'52	0°40'20		11233 Jul 17 00:03	15° R W	
morning rise	11227 Jul 28 08:51	4° Q 58'37		opposition	11233 Jul 26 15:07	13° W 45'25	0°54'01
	11227 Sep 10 10:17	15° Q		min. Earth dist.	11233 Jul 26 06:40	13° W 48'10	4.45227 AU
retrograde	11227 Dec 06 04:42	25° Q 23'48		direct	11233 Sep 26 07:44	8° W 44'18	
opposition	11228 Feb 03 17:25	20° Q 25'43	-0°51'54		11233 Dec 03 22:31	15° W	
min. Earth dist.	11228 Feb 03 20:35	20° Q 24'40	3.92452 AU	evening set	11234 Jan 29 15:09	25° W 59'17	
direct	11228 Apr 02 07:31	15° Q 30'36					
	11228 Jul 14 14:14	0° H		conjunction	11234 Feb 11 18:38	28° W 47'45	0°31'04
evening set	11228 Aug 07 08:07	5° H 39'34		minimum elong	11234 Feb 11 18:39	28° W 47'45	0°31'28
				max. Earth dist.	11234 Feb 11 15:13	28° W 45'55	6.49018 AU
conjunction	11228 Aug 20 15:35	8° H 55'06	-0°25'16		11234 Feb 17 09:37	0° H	
minimum elong	11228 Aug 20 15:36	8° H 55'06	0°25'34	morning rise	11234 Feb 24 20:14	1° H 35'14	
max. Earth dist.	11228 Aug 21 05:08	9° H 03'24	5.89892 AU	retrograde	11234 Jun 25 12:47	18° H 12'33	
morning rise	11228 Sep 03 01:26	12° H 11'55		opposition	11234 Aug 25 12:21	13° H 17'19	0°33'33

min. Earth dist.	11234 Aug 26 00:24	13° H 13'27	4.50691 AU	direct	11240 Apr 07 09:46	20° Ω 39'55	
direct	11234 Oct 26 23:33	8° H 16'05			11240 Jun 26 02:14	0° H	
evening set	11235 Feb 28 22:52	25° H 21'48		evening set	11240 Aug 12 09:45	10° H 49'13	
conjunction	11235 Mar 13 22:10	28° H 08'13	0°13'34	conjunction	11240 Aug 25 18:10	14° H 05'05	-0°22'19
minimum elong	11235 Mar 13 22:10	28° H 08'13	0°13'39	minimum elong	11240 Aug 25 18:11	14° H 05'06	0°22'35
behind sun begin	11235 Mar 13 17:50	28° H 05'54		max. Earth dist.	11240 Aug 26 13:23	14° H 16'51	5.90061 AU
behind sun end	11235 Mar 14 02:31	28° H 10'32		morning rise	11240 Sep 08 04:40	17° H 22'10	
max. Earth dist.	11235 Mar 12 15:12	27° H 51'37	6.50134 AU		11240 Nov 03 13:54	0° Ω	
	11235 Mar 22 14:51	0° Y		retrograde	11241 Jan 18 05:37	8° Ω 15'13	
morning rise	11235 Mar 26 19:38	0° Y 53'48		opposition	11241 Mar 18 12:21	3° Ω 13'26	-0°14'54
retrograde	11235 Jul 25 11:42	17° Y 32'25		min. Earth dist.	11241 Mar 17 12:55	3° Ω 21'22	3.91036 AU
opposition	11235 Sep 24 13:33	12° Y 38'50	0°04'39		11241 Apr 13 14:16	30° R H	
min. Earth dist.	11235 Sep 25 18:10	12° Y 29'40	4.47476 AU	direct	11241 May 15 11:41	28° H 18'16	
desc. node	11235 Nov 20 23:39	7° Y 40'19			11241 Jun 16 06:18	0° Ω	
direct	11235 Nov 26 04:00	7° Y 37'51		asc. node	11241 Aug 14 11:44	10° Ω 00'45	
evening set	11236 Mar 30 03:33	24° Y 57'25		evening set	11241 Sep 19 15:02	18° Ω 21'30	
max. Earth dist.	11236 Apr 09 23:22	27° Y 18'49	6.42764 AU				
conjunction	11236 Apr 12 00:01	27° Y 45'25	-0°07'44	conjunction	11241 Oct 03 04:36	21° Ω 37'36	0°03'14
minimum elong	11236 Apr 12 00:01	27° Y 45'24	0°07'59	minimum elong	11241 Oct 03 04:35	21° Ω 37'35	0°03'25
behind sun begin	11236 Apr 11 16:53	27° Y 41'32		behind sun begin	11241 Oct 02 20:15	21° Ω 32'36	
behind sun end	11236 Apr 12 07:09	27° Y 49'17		behind sun end	11241 Oct 03 12:54	21° Ω 42'35	
	11236 Apr 22 06:25	0° H		max. Earth dist.	11241 Oct 05 06:29	22° Ω 07'41	5.94728 AU
morning rise	11236 Apr 24 18:43	0° H 32'49		morning rise	11241 Oct 16 20:06	24° Ω 54'30	
	11236 Jul 12 23:17	15° H			11241 Nov 07 13:46	0° H	
retrograde	11236 Aug 24 20:24	17° H 42'57		retrograde	11242 Feb 12 16:47	15° H	
	11236 Oct 07 04:51	15° R H			11242 Feb 24 09:00	15° H 13'38	
opposition	11236 Oct 24 19:19	12° H 49'48	-0°26'28	min. Earth dist.	11242 Apr 23 06:18	10° H 22'40	4.00794 AU
min. Earth dist.	11236 Oct 26 09:40	12° H 37'32	4.36354 AU	opposition	11242 Apr 24 20:06	10° H 09'50	0°24'09
direct	11236 Dec 25 22:30	7° H 49'41		direct	11242 Jun 22 03:34	5° H 12'53	
	11237 Mar 08 21:29	15° H			11242 Sep 13 11:26	15° H	
evening set	11237 Apr 30 05:07	25° H 44'28		evening set	11242 Oct 27 02:11	24° H 36'11	
max. Earth dist.	11237 May 10 16:03	28° H 05'38	6.28613 AU				
conjunction	11237 May 13 00:14	28° H 37'23	-0°27'29	conjunction	11242 Nov 09 16:47	27° H 46'14	0°26'42
minimum elong	11237 May 13 00:13	28° H 37'22	0°28'03	minimum elong	11242 Nov 09 16:46	27° H 46'14	0°27'14
	11237 May 19 02:30	0° H		max. Earth dist.	11242 Nov 12 03:47	28° H 20'36	6.08516 AU
morning rise	11237 May 25 18:43	1° H 30'14		morning rise	11242 Nov 19 06:50	0° H	
retrograde	11237 Sep 27 13:36	19° H 39'12		retrograde	11242 Nov 23 08:20	0° H 56'23	
opposition	11237 Nov 27 02:54	14° H 45'18	-0°51'52	min. Earth dist.	11243 Mar 30 20:44	20° H 05'32	
min. Earth dist.	11237 Nov 28 16:47	14° H 33'03	4.20019 AU	opposition	11243 May 28 05:40	15° H 14'19	4.17068 AU
direct	11238 Jan 27 05:46	9° H 46'40		opposition	11243 May 29 17:39	15° H 02'12	0°51'49
evening set	11238 Jun 02 00:32	28° H 32'09		direct	11243 Jul 28 03:54	10° H 03'09	
	11238 Jun 08 07:03	0° Ω		evening set	11243 Dec 01 12:21	28° H 32'51	
max. Earth dist.	11238 Jun 12 23:35	1° Ω 05'58	6.11377 AU		11243 Dec 08 00:26	0° Ω	
conjunction	11238 Jun 14 21:26	1° Ω 32'52	-0°39'45	conjunction	11243 Dec 15 00:29	1° Ω 34'07	0°39'43
minimum elong	11238 Jun 14 21:25	1° Ω 32'52	0°40'25	minimum elong	11243 Dec 15 00:28	1° Ω 34'07	0°40'24
morning rise	11238 Jun 27 18:35	4° Ω 34'08		max. Earth dist.	11243 Dec 17 01:14	2° Ω 01'25	6.25818 AU
retrograde	11238 Nov 02 21:59	23° Ω 58'04		morning rise	11243 Dec 28 12:02	4° Ω 34'49	
opposition	11239 Jan 01 22:54	19° Ω 02'24	-1°01'49	retrograde	11244 Apr 30 18:50	22° Ω 30'59	
min. Earth dist.	11239 Jan 02 22:42	18° Ω 54'36	4.03245 AU	min. Earth dist.	11244 Jun 29 03:10	17° Ω 38'18	4.33864 AU
direct	11239 Mar 02 16:06	14° Ω 05'52		opposition	11244 Jun 30 03:42	17° Ω 30'11	1°00'42
	11239 Jun 21 10:41	0° Ω		direct	11244 Aug 29 20:18	12° Ω 29'43	
evening set	11239 Jul 07 03:40	3° Ω 43'28			11245 Jan 01 16:14	0° \approx	
max. Earth dist.	11239 Jul 19 09:35	6° Ω 41'05	5.96597 AU	evening set	11245 Jan 02 15:07	0° \approx 12'20	
conjunction	11239 Jul 20 05:15	6° Ω 52'59	-0°38'37	conjunction	11245 Jan 15 22:40	3° \approx 05'35	0°39'52
minimum elong	11239 Jul 20 05:16	6° Ω 53'00	0°39'12	minimum elong	11245 Jan 15 22:41	3° \approx 05'36	0°40'27
morning rise	11239 Aug 02 08:34	10° Ω 03'38		max. Earth dist.	11245 Jan 16 20:33	3° \approx 17'29	6.40827 AU
	11239 Aug 23 05:54	15° Ω		morning rise	11245 Jan 29 04:59	5° \approx 57'59	
retrograde	11239 Nov 22 22:16	0° H			11245 Mar 14 21:28	15° \approx	
	11239 Dec 11 09:09	0° H 33'30		retrograde	11245 May 31 01:27	23° \approx 00'09	
	11239 Dec 29 19:40	30° R Ω		opposition	11245 Jul 30 19:13	18° \approx 02'30	0°51'52
opposition	11240 Feb 08 21:56	25° Ω 34'57	-0°48'39	min. Earth dist.	11245 Jul 30 14:03	18° \approx 04'11	4.46079 AU
min. Earth dist.	11240 Feb 08 21:47	25° Ω 35'00	3.91994 AU	direct	11245 Aug 25 00:17	15° R \approx	
					11245 Sep 30 15:51	13° \approx 01'20	

	11245 Nov 06 14:22	15°♊	conjunction	11251 Jul 25 06:21	12°♌02'24 -0°37'12
	11246 Feb 01 17:39	0°♋	minimum elong	11251 Jul 25 06:22	12°♌02'24 0°37'44
evening set	11246 Feb 02 21:21	0°♋14'42	max. Earth dist.	11251 Jul 24 16:30	11°♌53'59 5.95072 AU
				11251 Aug 06 11:02	15°♌
conjunction	11246 Feb 16 00:20	3°♋02'49 0°28'59	morning rise	11251 Aug 07 10:30	15°♌14'10
minimum elong	11246 Feb 16 00:21	3°♋02'49 0°29'21		11251 Oct 15 02:14	0°♍
max. Earth dist.	11246 Feb 15 17:48	2°♋59'19 6.49416 AU	retrograde	11251 Dec 16 18:49	5°♍50'35
morning rise	11246 Mar 01 01:21	5°♋49'56	opposition	11252 Feb 14 05:25	0°♍51'37 -0°44'56
retrograde	11246 Jun 29 14:57	22°♋26'11	min. Earth dist.	11252 Feb 14 02:41	0°♍52'32 3.91102 AU
opposition	11246 Aug 29 16:08	17°♋31'09 0°29'52		11252 Feb 20 16:21	30°♎♌
min. Earth dist.	11246 Aug 30 05:33	17°♋26'50 4.50621 AU	direct	11252 Apr 12 14:14	25°♌56'41
direct	11246 Oct 31 03:48	12°♋29'54		11252 Jun 01 21:18	0°♍
evening set	11247 Mar 05 03:31	29°♋36'16	evening set	11252 Aug 17 15:40	16°♍07'59
	11247 Mar 07 00:06	0°♎			
max. Earth dist.	11247 Mar 16 18:05	2°♎05'20 6.49589 AU	conjunction	11252 Aug 31 00:52	19°♍24'21 -0°19'06
			minimum elong	11252 Aug 31 00:53	19°♍24'22 0°19'16
conjunction	11247 Mar 18 02:25	2°♎22'42 0°10'42	max. Earth dist.	11252 Aug 31 23:54	19°♍38'27 5.89881 AU
minimum elong	11247 Mar 18 02:25	2°♎22'42 0°10'43	morning rise	11252 Sep 13 12:27	22°♍41'58
behind sun begin	11247 Mar 17 20:17	2°♎19'25		11252 Oct 14 13:11	0°♎
behind sun end	11247 Mar 18 08:33	2°♎25'58	retrograde	11253 Jan 23 11:27	13°♎34'14
morning rise	11247 Mar 30 23:17	5°♎08'16	opposition	11253 Mar 23 18:39	8°♎32'04 -0°09'20
retrograde	11247 Jul 29 17:44	21°♎49'15	min. Earth dist.	11253 Mar 22 15:43	8°♎41'12 3.91614 AU
opposition	11247 Sep 28 19:55	16°♎55'44 0°00'15	direct	11253 May 20 16:49	3°♎36'43
min. Earth dist.	11247 Sep 30 02:17	16°♎46'02 4.46455 AU	asc. node	11253 Jun 23 19:44	5°♎33'05
desc. node	11247 Oct 01 22:00	16°♎32'06	evening set	11253 Sep 24 21:29	23°♎36'58
direct	11247 Nov 30 10:40	11°♎54'49			
evening set	11248 Apr 03 09:33	29°♎17'28	conjunction	11253 Oct 08 11:27	26°♎52'39 0°06'53
	11248 Apr 06 15:42	0°♏	minimum elong	11253 Oct 08 11:26	26°♎52'38 0°07'07
max. Earth dist.	11248 Apr 14 02:01	1°♏37'35 6.41297 AU	behind sun begin	11253 Oct 08 03:44	26°♎48'02
			behind sun end	11253 Oct 08 19:08	26°♎57'15
conjunction	11248 Apr 16 05:33	2°♏05'50 -0°10'42	max. Earth dist.	11253 Oct 10 15:17	27°♎23'49 5.95993 AU
minimum elong	11248 Apr 16 05:32	2°♏05'50 0°11'00		11253 Oct 21 12:06	0°♐
behind sun begin	11248 Apr 15 23:31	2°♏02'33	morning rise	11253 Oct 22 03:19	0°♐09'04
behind sun end	11248 Apr 16 11:33	2°♏09'07		11253 Dec 31 16:34	15°♐
morning rise	11248 Apr 29 00:10	4°♏53'43	retrograde	11254 Mar 01 08:23	20°♐20'52
	11248 Jun 17 22:56	15°♏	min. Earth dist.	11254 Apr 28 06:34	15°♐29'50 4.02591 AU
retrograde	11248 Aug 29 08:56	22°♏09'49	opposition	11254 Apr 29 20:25	15°♐16'58 0°28'59
opposition	11248 Oct 29 06:48	17°♏16'32 -0°30'33		11254 May 01 22:24	15°♐♐
min. Earth dist.	11248 Oct 30 21:51	17°♏04'01 4.34492 AU	direct	11254 Jun 27 07:17	10°♐19'44
	11248 Nov 16 17:19	15°♏♏		11254 Aug 21 10:37	15°♐
direct	11248 Dec 30 08:11	12°♏16'28	evening set	11254 Nov 01 03:53	29°♐36'37
	11249 Feb 11 12:52	15°♏		11254 Nov 02 20:24	0°♑
	11249 May 03 09:03	0°♒			
evening set	11249 May 04 15:02	0°♒16'50	conjunction	11254 Nov 14 18:28	2°♑45'38 0°29'16
max. Earth dist.	11249 May 15 03:16	2°♒39'22 6.26483 AU	minimum elong	11254 Nov 14 18:27	2°♑45'38 0°29'50
			max. Earth dist.	11254 Nov 17 06:56	3°♑20'41 6.10696 AU
conjunction	11249 May 17 10:21	3°♒10'37 -0°29'46	morning rise	11254 Nov 28 09:32	5°♑54'35
minimum elong	11249 May 17 10:20	3°♒10'36 0°30'21	retrograde	11255 Apr 04 11:17	24°♑53'37
morning rise	11249 May 30 04:50	6°♒04'22	min. Earth dist.	11255 Jun 01 21:56	20°♑02'36 4.19434 AU
retrograde	11249 Oct 02 09:11	24°♒22'21	opposition	11255 Jun 03 09:43	19°♑50'35 0°54'14
opposition	11249 Dec 01 21:43	19°♒28'14 -0°54'21	direct	11255 Aug 01 23:28	14°♑51'22
min. Earth dist.	11249 Dec 03 10:24	19°♒16'22 4.17760 AU		11255 Nov 21 12:51	0°♓
direct	11250 Jan 31 20:05	14°♒29'52	evening set	11255 Dec 06 06:48	3°♓13'54
	11250 May 23 02:24	0°♔			
evening set	11250 Jun 06 17:08	3°♔22'15	conjunction	11255 Dec 19 18:11	6°♓13'53 0°40'30
max. Earth dist.	11250 Jun 17 18:07	5°♔58'02 6.09167 AU	minimum elong	11255 Dec 19 18:11	6°♓13'53 0°41'11
			max. Earth dist.	11255 Dec 21 15:07	6°♓38'55 6.28187 AU
conjunction	11250 Jun 19 14:20	6°♔24'06 -0°40'28	morning rise	11256 Jan 02 05:10	9°♓13'18
minimum elong	11250 Jun 19 14:20	6°♔24'06 0°41'08	retrograde	11256 May 05 02:25	27°♓00'16
morning rise	11250 Jul 02 12:16	9°♔26'37	opposition	11256 Jul 04 12:31	21°♓59'51 1°00'26
retrograde	11250 Nov 08 02:37	29°♔00'35	min. Earth dist.	11256 Jul 03 14:39	22°♓07'05 4.36064 AU
opposition	11251 Jan 07 01:38	24°♔04'31 -1°01'25	direct	11256 Sep 03 10:18	16°♓59'14
min. Earth dist.	11251 Jan 07 22:39	23°♔57'36 4.01272 AU		11256 Dec 16 05:46	0°♔
direct	11251 Mar 07 14:51	19°♔08'09	evening set	11257 Jan 07 01:44	4°♔35'55
	11251 Jun 03 14:34	0°♌			
evening set	11251 Jul 12 03:44	8°♌51'44	conjunction	11257 Jan 20 08:46	7°♔28'11 0°38'56
			minimum elong	11257 Jan 20 08:47	7°♔28'12 0°39'31

max. Earth dist.	11257 Jan 21 04:36	7°≈38'55	6.42708 AU	opposition	11263 Jan 12 05:12	29°≈09'58	-1°00'37
morning rise	11257 Feb 02 14:07	10°≈19'30		min. Earth dist.	11263 Jan 13 00:12	29°≈03'42	3.98891 AU
	11257 Feb 24 20:43	15°≈		direct	11263 Mar 12 13:13	24°≈13'53	
retrograde	11257 Jun 04 02:44	27°≈15'26			11263 May 13 01:08	0°≈	
opposition	11257 Aug 03 23:10	22°≈18'11	0°49'28	evening set	11263 Jul 17 05:56	14°≈05'19	
min. Earth dist.	11257 Aug 03 19:35	22°≈19'21	4.47524 AU		11263 Jul 21 00:03	15°≈	
direct	11257 Oct 04 22:14	17°≈17'01					
	11258 Jan 16 16:02	0°≈		conjunction	11263 Jul 30 09:27	17°≈17'20	-0°35'30
evening set	11258 Feb 07 02:27	4°≈26'54		minimum elong	11263 Jul 30 09:28	17°≈17'21	0°36'00
				max. Earth dist.	11263 Jul 29 23:08	17°≈11'03	5.93206 AU
conjunction	11258 Feb 20 04:38	7°≈14'23	0°26'49	morning rise	11263 Aug 12 14:56	20°≈30'35	
minimum elong	11258 Feb 20 04:39	7°≈14'23	0°27'08		11263 Sep 22 17:52	0°≈	
max. Earth dist.	11258 Feb 19 17:44	7°≈08'34	6.50316 AU	retrograde	11263 Dec 22 05:06	11°≈14'46	
morning rise	11258 Mar 05 05:00	10°≈00'55		opposition	11264 Feb 19 15:02	6°≈15'21	-0°40'51
retrograde	11258 Jul 03 17:13	26°≈34'54		min. Earth dist.	11264 Feb 19 07:34	6°≈17'51	3.89985 AU
opposition	11258 Sep 02 18:32	21°≈40'10	0°26'08	direct	11264 Apr 17 19:51	1°≈20'30	
min. Earth dist.	11258 Sep 03 11:26	21°≈34'44	4.50916 AU	evening set	11264 Aug 23 00:29	21°≈34'43	
direct	11258 Nov 04 09:14	16°≈38'55					
	11259 Feb 19 08:06	0°≈		conjunction	11264 Sep 05 10:41	24°≈51'41	-0°15'41
evening set	11259 Mar 09 06:05	3°≈45'03		minimum elong	11264 Sep 05 10:41	24°≈51'41	0°15'48
max. Earth dist.	11259 Mar 20 15:54	6°≈11'46	6.49235 AU	behind sun begin	11264 Sep 05 09:18	24°≈50'50	
				behind sun end	11264 Sep 05 12:05	24°≈52'32	
conjunction	11259 Mar 22 04:27	6°≈31'24	0°07'53	max. Earth dist.	11264 Sep 06 15:15	25°≈09'10	5.89641 AU
minimum elong	11259 Mar 22 04:27	6°≈31'24	0°07'52	morning rise	11264 Sep 18 23:10	28°≈09'49	
behind sun begin	11259 Mar 21 21:16	6°≈27'34			11264 Sep 26 13:36	0°≈	
behind sun end	11259 Mar 22 11:37	6°≈35'14		retrograde	11265 Jan 28 20:45	19°≈01'16	
morning rise	11259 Apr 04 00:54	9°≈16'57		min. Earth dist.	11265 Mar 27 22:30	14°≈08'33	3.92268 AU
retrograde	11259 Aug 02 21:19	26°≈00'06		opposition	11265 Mar 29 03:40	13°≈58'39	-0°03'40
desc. node	11259 Aug 15 01:18	25°≈46'18		asc. node	11265 May 03 22:00	9°≈53'34	
opposition	11259 Oct 02 23:58	21°≈06'39	-0°04'00	direct	11265 May 26 02:47	9°≈03'04	
min. Earth dist.	11259 Oct 04 07:48	20°≈56'29	4.45464 AU	evening set	11265 Sep 30 06:44	28°≈59'44	
direct	11259 Dec 04 13:33	16°≈05'46			11265 Oct 04 11:46	0°≈	
	11260 Mar 22 02:14	0°≈					
evening set	11260 Apr 07 13:06	3°≈31'48		conjunction	11265 Oct 13 21:13	2°≈14'54	0°10'29
max. Earth dist.	11260 Apr 18 04:41	5°≈51'54	6.39720 AU	minimum elong	11265 Oct 13 21:13	2°≈14'54	0°10'48
				behind sun begin	11265 Oct 13 14:52	2°≈11'07	
conjunction	11260 Apr 20 08:57	6°≈20'41	-0°13'32	behind sun end	11265 Oct 14 03:34	2°≈18'41	
minimum elong	11260 Apr 20 08:56	6°≈20'41	0°13'53	max. Earth dist.	11265 Oct 16 05:53	2°≈48'49	5.97473 AU
behind sun begin	11260 Apr 20 04:45	6°≈18'23		morning rise	11265 Oct 27 13:14	5°≈30'38	
behind sun end	11260 Apr 20 13:08	6°≈22'58			11265 Dec 08 17:43	15°≈	
morning rise	11260 May 03 03:16	9°≈09'06		retrograde	11266 Mar 06 09:20	25°≈33'36	
	11260 May 30 15:09	15°≈		min. Earth dist.	11266 May 03 07:09	20°≈42'51	4.04706 AU
retrograde	11260 Sep 02 19:21	26°≈31'58		opposition	11266 May 04 22:14	20°≈29'36	0°33'36
opposition	11260 Nov 02 16:30	21°≈38'41	-0°34'21	direct	11266 Jul 02 11:59	15°≈32'02	
min. Earth dist.	11260 Nov 04 08:50	21°≈25'45	4.32400 AU		11266 Oct 16 12:20	0°≈	
direct	11261 Jan 03 15:16	16°≈38'47		evening set	11266 Nov 06 07:19	4°≈41'10	
	11261 Apr 17 09:54	0°≈					
evening set	11261 May 08 23:29	4°≈45'51		conjunction	11266 Nov 19 21:27	7°≈48'52	0°31'37
max. Earth dist.	11261 May 19 10:13	7°≈08'23	6.24013 AU	minimum elong	11266 Nov 19 21:26	7°≈48'51	0°32'13
				max. Earth dist.	11266 Nov 22 08:25	8°≈22'49	6.13208 AU
conjunction	11261 May 21 18:46	7°≈40'39	-0°31'50	morning rise	11266 Dec 03 12:15	10°≈56'29	
minimum elong	11261 May 21 18:45	7°≈40'38	0°32'26	retrograde	11267 Apr 09 01:34	29°≈44'03	
morning rise	11261 Jun 03 13:43	10°≈35'34		min. Earth dist.	11267 Jun 06 15:48	24°≈52'46	4.22072 AU
retrograde	11261 Oct 07 05:27	29°≈04'19		opposition	11267 Jun 08 02:21	24°≈41'11	0°56'14
opposition	11261 Dec 06 15:58	24°≈10'01	-0°56'30	direct	11267 Aug 06 21:06	19°≈41'36	
min. Earth dist.	11261 Dec 08 03:32	23°≈58'28	4.15071 AU		11267 Nov 03 11:32	0°≈	
direct	11262 Feb 05 09:58	19°≈11'49		evening set	11267 Dec 11 01:10	7°≈56'01	
	11262 May 05 18:47	0°≈					
evening set	11262 Jun 11 09:44	8°≈13'06		conjunction	11267 Dec 24 12:06	10°≈54'42	0°41'00
max. Earth dist.	11262 Jun 22 15:15	10°≈52'25	6.06506 AU	minimum elong	11267 Dec 24 12:05	10°≈54'42	0°41'40
				max. Earth dist.	11267 Dec 26 07:11	11°≈18'35	6.30728 AU
conjunction	11262 Jun 24 07:44	11°≈16'25	-0°40'55	morning rise	11268 Jan 06 22:08	13°≈52'41	
minimum elong	11262 Jun 24 07:44	11°≈16'25	0°41'36		11268 Apr 08 05:48	0°≈	
morning rise	11262 Jul 07 06:17	14°≈20'26		retrograde	11268 May 09 09:43	1°≈30'05	
	11262 Sep 22 04:05	0°≈			11268 Jun 09 09:12	30°≈	
retrograde	11262 Nov 13 09:41	4°≈06'18		opposition	11268 Jul 08 21:29	26°≈30'06	0°59'47
	11263 Jan 05 20:40	30°≈		min. Earth dist.	11268 Jul 08 01:42	26°≈36'37	4.38294 AU

direct	11268 Sep 07 23:26	21° ♁ 29'21			11273 Dec 04 09:46	30° ♁ II	
	11268 Nov 27 21:49	0° ♁		opposition	11273 Dec 11 15:38	29° II 03'53	-0°58'22
evening set	11269 Jan 11 12:33	9° ♁ 00'08		min. Earth dist.	11273 Dec 13 02:25	28° II 52'35	4.12395 AU
				direct	11274 Feb 10 05:00	24° II 06'02	
conjunction	11269 Jan 24 18:41	11° ♁ 51'24	0°37'45		11274 Apr 14 14:27	0° ♁	
minimum elong	11269 Jan 24 18:42	11° ♁ 51'24	0°38'19	evening set	11274 Jun 16 07:33	13° ♁ 15'56	
max. Earth dist.	11269 Jan 25 08:51	11° ♁ 59'02	6.44456 AU	max. Earth dist.	11274 Jun 27 15:48	15° ♁ 57'48	6.04040 AU
morning rise	11269 Feb 06 23:26	14° ♁ 41'45					
	11269 Feb 08 09:34	15° ♁		conjunction	11274 Jun 29 06:06	16° ♁ 20'39	-0°41'05
	11269 May 07 11:21	0° ♁		minimum elong	11274 Jun 29 06:07	16° ♁ 20'39	0°41'45
retrograde	11269 Jun 08 06:53	1° ♁ 32'06		morning rise	11274 Jul 12 05:41	19° ♁ 26'12	
	11269 Jul 09 23:31	30° ♁			11274 Aug 28 15:25	0° ♁	
opposition	11269 Aug 08 03:47	26° ♁ 35'14	0°46'45	retrograde	11274 Nov 18 18:56	9° ♁ 23'05	
min. Earth dist.	11269 Aug 08 03:52	26° ♁ 35'12	4.48694 AU	opposition	11275 Jan 17 13:36	4° ♁ 26'23	-0°59'15
direct	11269 Oct 09 06:32	21° ♁ 33'56		min. Earth dist.	11275 Jan 18 04:07	4° ♁ 21'34	3.96905 AU
	11269 Dec 29 18:14	0° ♁			11275 Feb 28 14:16	30° ♁	
evening set	11270 Feb 11 08:16	8° ♁ 41'20		direct	11275 Mar 17 15:46	29° ♁ 30'37	
					11275 Apr 03 18:37	0° ♁	
conjunction	11270 Feb 24 10:01	11° ♁ 28'25	0°24'26		11275 Jul 03 19:12	15° ♁	
minimum elong	11270 Feb 24 10:02	11° ♁ 28'25	0°24'42	evening set	11275 Jul 22 12:13	19° ♁ 28'07	
max. Earth dist.	11270 Feb 23 19:54	11° ♁ 20'53	6.50831 AU				
morning rise	11270 Mar 09 09:37	14° ♁ 14'30		conjunction	11275 Aug 04 16:45	22° ♁ 41'14	-0°33'26
	11270 Jun 15 02:11	0° ♁		minimum elong	11275 Aug 04 16:46	22° ♁ 41'15	0°33'54
retrograde	11270 Jul 07 19:36	0° ♁ 47'30		max. Earth dist.	11275 Aug 04 13:06	22° ♁ 39'00	5.91929 AU
	11270 Jul 30 13:14	30° ♁		morning rise	11275 Aug 17 23:12	25° ♁ 55'34	
opposition	11270 Sep 06 22:31	25° ♁ 53'00	0°22'08		11275 Sep 03 23:22	0° ♁	
min. Earth dist.	11270 Sep 07 17:09	25° ♁ 47'02	4.50761 AU	retrograde	11275 Dec 27 19:09	16° ♁ 44'45	
direct	11270 Nov 08 13:01	20° ♁ 51'45		opposition	11276 Feb 25 03:15	11° ♁ 44'52	-0°36'16
	11271 Feb 01 23:18	0° ♁		min. Earth dist.	11276 Feb 24 16:34	11° ♁ 48'28	3.89593 AU
evening set	11271 Mar 13 10:41	7° ♁ 59'02		direct	11276 Apr 23 06:58	6° ♁ 50'04	
max. Earth dist.	11271 Mar 24 17:01	10° ♁ 24'11	6.48414 AU	evening set	11276 Aug 28 11:04	27° ♁ 04'08	
					11276 Sep 09 11:24	0° ♁	
conjunction	11271 Mar 26 08:33	10° ♁ 45'30	0°04'55				
minimum elong	11271 Mar 26 08:33	10° ♁ 45'29	0°04'52	conjunction	11276 Sep 10 22:08	0° ♁ 21'14	-0°12'06
behind sun begin	11271 Mar 26 00:46	10° ♁ 41'19		minimum elong	11276 Sep 10 22:09	0° ♁ 21'14	0°12'09
behind sun end	11271 Mar 26 16:20	10° ♁ 49'40		behind sun begin	11276 Sep 10 16:32	0° ♁ 17'49	
morning rise	11271 Apr 08 04:36	13° ♁ 31'12		behind sun end	11276 Sep 11 03:45	0° ♁ 24'39	
desc. node	11271 Jun 25 12:43	27° ♁ 37'25		max. Earth dist.	11276 Sep 12 09:10	0° ♁ 42'38	5.90187 AU
	11271 Jul 24 06:01	0° ♁		morning rise	11276 Sep 24 11:19	3° ♁ 39'25	
retrograde	11271 Aug 07 05:55	0° ♁ 18'06		retrograde	11277 Feb 03 04:30	24° ♁ 26'17	
	11271 Aug 21 04:30	30° ♁		asc. node	11277 Mar 14 15:55	21° ♁ 57'16	
opposition	11271 Oct 07 07:34	25° ♁ 24'46	-0°08'26	min. Earth dist.	11277 Apr 02 03:48	19° ♁ 34'13	3.93701 AU
min. Earth dist.	11271 Oct 08 18:11	25° ♁ 13'42	4.44009 AU	opposition	11277 Apr 03 11:48	19° ♁ 23'21	0°02'02
direct	11271 Dec 08 20:55	20° ♁ 23'56		direct	11277 May 31 11:03	14° ♁ 27'37	
	11272 Mar 04 18:57	0° ♁			11277 Sep 17 05:04	0° ♁	
evening set	11272 Apr 11 20:14	7° ♁ 54'42		evening set	11277 Oct 05 14:44	4° ♁ 17'56	
max. Earth dist.	11272 Apr 22 08:40	10° ♁ 13'44	6.37724 AU				
				conjunction	11277 Oct 19 05:12	7° ♁ 32'07	0°13'58
conjunction	11272 Apr 24 15:51	10° ♁ 44'14	-0°16'25	minimum elong	11277 Oct 19 05:11	7° ♁ 32'07	0°14'20
minimum elong	11272 Apr 24 15:50	10° ♁ 44'14	0°16'49	behind sun begin	11277 Oct 19 01:27	7° ♁ 29'54	
morning rise	11272 May 07 10:12	13° ♁ 33'25		behind sun end	11277 Oct 19 08:54	7° ♁ 34'19	
	11272 May 14 00:17	15° ♁		max. Earth dist.	11277 Oct 21 14:49	8° ♁ 06'25	5.99605 AU
	11272 Aug 11 23:42	0° ♁		morning rise	11277 Nov 01 21:23	10° ♁ 46'50	
retrograde	11272 Sep 07 10:35	1° ♁ 04'30			11277 Nov 20 01:38	15° ♁	
	11272 Oct 03 22:50	30° ♁			11278 Feb 19 09:54	0° ♁	
opposition	11272 Nov 07 06:48	26° ♁ 11'06	-0°38'11	retrograde	11278 Mar 11 05:36	0° ♁ 38'50	
min. Earth dist.	11272 Nov 08 22:51	25° ♁ 58'14	4.29982 AU		11278 Mar 30 23:41	30° ♁	
direct	11273 Jan 08 01:35	21° ♁ 11'21		min. Earth dist.	11278 May 08 05:37	25° ♁ 48'15	4.07289 AU
	11273 Mar 30 05:47	0° ♁		opposition	11278 May 09 21:10	25° ♁ 34'50	0°37'49
evening set	11273 May 13 12:42	9° ♁ 26'09		direct	11278 Jul 07 14:56	20° ♁ 36'56	
max. Earth dist.	11273 May 24 01:53	11° ♁ 50'53	6.21365 AU		11278 Sep 27 17:31	0° ♁	
				evening set	11278 Nov 11 07:10	9° ♁ 37'09	
conjunction	11273 May 26 08:19	12° ♁ 22'07	-0°33'48				
minimum elong	11273 May 26 08:18	12° ♁ 22'07	0°34'26	conjunction	11278 Nov 24 21:02	12° ♁ 43'27	0°33'40
morning rise	11273 Jun 08 03:28	15° ♁ 18'15		minimum elong	11278 Nov 24 21:01	12° ♁ 43'26	0°34'19
	11273 Aug 21 12:27	0° ♁		max. Earth dist.	11278 Nov 27 07:12	13° ♁ 16'45	6.16002 AU
retrograde	11273 Oct 12 08:28	3° ♁ 58'21		morning rise	11278 Dec 08 11:04	15° ♁ 49'30	

	11279 Feb 17 23:31	0°♁		conjunction	11284 Apr 29 00:00	15°♁11'55	-0°19'12
retrograde	11279 Apr 13 14:00	4°♁25'23		minimum elong	11284 Apr 28 24:00	15°♁11'54	0°19'38
	11279 Jun 08 00:19	30°♁♂		morning rise	11284 May 11 18:19	18°♁01'59	
min. Earth dist.	11279 Jun 11 07:07	29°♁33'45	4.24805 AU		11284 Jul 10 15:48	0°♁	
opposition	11279 Jun 12 15:31	29°♁22'55	0°57'48	retrograde	11284 Sep 12 05:36	5°♁42'11	
direct	11279 Aug 11 15:24	24°♁23'10		opposition	11284 Nov 11 23:04	0°♁48'45	-0°41'47
	11279 Oct 13 12:07	0°♁		min. Earth dist.	11284 Nov 13 15:51	0°♁35'38	4.27432 AU
evening set	11279 Dec 15 16:12	12°♁29'41			11284 Nov 18 07:08	30°♁♂	
				direct	11285 Jan 12 14:46	25°♁49'14	
conjunction	11279 Dec 29 02:20	15°♁27'04	0°41'14		11285 Mar 07 06:55	0°♁	
minimum elong	11279 Dec 29 02:20	15°♁27'04	0°41'54	evening set	11285 May 18 03:37	14°♁11'59	
max. Earth dist.	11279 Dec 30 17:00	15°♁48'23	6.33171 AU	max. Earth dist.	11285 May 28 17:29	16°♁38'00	6.18739 AU
morning rise	11280 Jan 11 11:43	18°♁23'45					
	11280 Mar 10 01:46	0°♁		conjunction	11285 May 30 23:26	17°♁09'09	-0°35'33
retrograde	11280 May 13 13:44	5°♁52'31		minimum elong	11285 May 30 23:25	17°♁09'08	0°36'12
min. Earth dist.	11280 Jul 12 10:22	0°♁58'34	4.40290 AU	morning rise	11285 Jun 12 19:07	20°♁06'35	
opposition	11280 Jul 13 03:22	0°♁52'59	0°58'48		11285 Jul 28 13:24	0°♁	
	11280 Jul 19 21:26	30°♁♂		retrograde	11285 Oct 17 10:34	8°♁57'49	
direct	11280 Sep 12 08:53	25°♁52'06		opposition	11285 Dec 16 17:02	4°♁03'03	-0°59'48
	11280 Nov 05 15:02	0°♁		min. Earth dist.	11285 Dec 18 00:30	3°♁52'48	4.09921 AU
evening set	11281 Jan 15 20:22	13°♁18'07			11286 Jan 22 04:54	30°♁♁	
	11281 Jan 23 18:29	15°♁		direct	11286 Feb 15 00:32	29°♁05'30	
					11286 Mar 10 20:08	0°♁	
conjunction	11281 Jan 29 02:00	16°♁08'36	0°36'24	evening set	11286 Jun 21 06:49	18°♁23'02	
minimum elong	11281 Jan 29 02:01	16°♁08'36	0°36'56	max. Earth dist.	11286 Jul 02 21:12	21°♁09'16	6.01953 AU
max. Earth dist.	11281 Jan 29 12:44	16°♁14'23	6.45876 AU				
morning rise	11281 Feb 11 05:50	18°♁58'07		conjunction	11286 Jul 04 06:05	21°♁28'59	-0°40'55
	11281 Apr 09 03:27	0°♁		minimum elong	11286 Jul 04 06:05	21°♁28'59	0°41'34
retrograde	11281 Jun 12 08:29	5°♁44'18		morning rise	11286 Jul 17 06:23	24°♁35'49	
opposition	11281 Aug 12 06:29	0°♁47'54	0°43'53		11286 Aug 09 10:14	0°♁	
min. Earth dist.	11281 Aug 12 09:15	0°♁47'00	4.49463 AU	retrograde	11286 Nov 24 06:02	14°♁41'46	
	11281 Aug 18 11:16	30°♁♁		opposition	11287 Jan 22 22:19	9°♁44'37	-0°57'20
direct	11281 Oct 13 11:02	25°♁46'38		min. Earth dist.	11287 Jan 23 10:06	9°♁40'43	3.95416 AU
	11281 Dec 07 23:46	0°♁		direct	11287 Mar 22 21:57	4°♁49'03	
evening set	11282 Feb 15 12:34	12°♁52'55			11287 Jun 15 00:36	15°♁	
				evening set	11287 Jul 27 18:20	24°♁50'21	
conjunction	11282 Feb 28 13:34	15°♁39'43	0°21'59				
minimum elong	11282 Feb 28 13:35	15°♁39'44	0°22'13	conjunction	11287 Aug 09 23:51	28°♁04'16	-0°31'05
max. Earth dist.	11282 Feb 27 17:49	15°♁29'10	6.50894 AU	minimum elong	11287 Aug 09 23:52	28°♁04'17	0°31'30
morning rise	11282 Mar 13 12:47	18°♁25'37		max. Earth dist.	11287 Aug 10 02:06	28°♁05'39	5.91185 AU
	11282 May 13 08:46	0°♁			11287 Aug 17 21:01	0°♁	
retrograde	11282 Jul 12 00:31	4°♁59'17		morning rise	11287 Aug 23 07:18	1°♁19'24	
opposition	11282 Sep 11 02:11	0°♁05'03	0°18'06	retrograde	11288 Jan 02 05:43	22°♁10'46	
	11282 Sep 11 17:57	30°♁♂		opposition	11288 Mar 01 13:22	17°♁10'23	-0°31'24
min. Earth dist.	11282 Sep 12 00:22	29°♁57'57	4.50130 AU	min. Earth dist.	11288 Feb 29 22:49	17°♁15'17	3.89698 AU
direct	11282 Nov 12 17:43	25°♁03'48		direct	11288 Apr 28 14:32	12°♁15'33	
	11283 Jan 12 04:40	0°♁			11288 Aug 23 14:12	0°♁	
evening set	11283 Mar 17 15:05	12°♁13'46		evening set	11288 Sep 02 19:31	2°♁27'36	
max. Earth dist.	11283 Mar 28 18:27	14°♁37'45	6.47132 AU				
				conjunction	11288 Sep 16 07:06	5°♁44'32	-0°08'27
conjunction	11283 Mar 30 12:42	15°♁00'35	0°01'56	minimum elong	11288 Sep 16 07:06	5°♁44'32	0°08'27
minimum elong	11283 Mar 30 12:42	15°♁00'35	0°01'49	behind sun begin	11288 Sep 15 23:48	5°♁40'06	
behind sun begin	11283 Mar 30 04:42	14°♁56'17		behind sun end	11288 Sep 16 14:25	5°♁48'58	
behind sun end	11283 Mar 30 20:42	15°♁04'53		max. Earth dist.	11288 Sep 17 21:02	6°♁07'39	5.91094 AU
morning rise	11283 Apr 12 08:23	17°♁46'40		morning rise	11288 Sep 29 21:03	9°♁02'34	
desc. node	11283 May 05 04:00	22°♁34'18		asc. node	11289 Jan 23 16:52	29°♁19'03	
	11283 Jun 15 08:49	0°♁		retrograde	11289 Feb 08 07:21	29°♁43'30	
retrograde	11283 Aug 11 14:01	4°♁38'46		min. Earth dist.	11289 Apr 07 06:31	24°♁51'50	3.95295 AU
	11283 Oct 09 18:18	30°♁♂		opposition	11289 Apr 08 16:38	24°♁40'15	0°07'36
opposition	11283 Oct 11 15:39	29°♁45'30	-0°12'48	direct	11289 Jun 05 17:53	19°♁44'11	
min. Earth dist.	11283 Oct 13 02:51	29°♁34'15	4.42169 AU		11289 Aug 29 15:53	0°♁	
direct	11283 Dec 13 01:49	24°♁44'48		evening set	11289 Oct 10 19:36	9°♁27'57	
	11284 Feb 13 00:13	0°♁					
evening set	11284 Apr 16 04:31	12°♁21'33		conjunction	11289 Oct 24 10:19	12°♁41'12	0°17'18
max. Earth dist.	11284 Apr 26 16:49	14°♁41'14	6.35457 AU	minimum elong	11289 Oct 24 10:18	12°♁41'11	0°17'42
	11284 Apr 28 02:34	15°♁		max. Earth dist.	11289 Oct 26 21:37	13°♁16'19	6.01727 AU
					11289 Nov 03 05:02	15°♁	

morning rise	11289 Nov 07 02:16	15° \mathbb{M} 54'49		retrograde	11295 Aug 16 02:31	9° \mathcal{B} 03'32	
	11290 Jan 13 13:04	0° \mathcal{A}		opposition	11295 Oct 16 02:17	4° \mathcal{B} 10'24	-0°17'13
retrograde	11290 Mar 16 01:19	5° \mathcal{A} 36'19		min. Earth dist.	11295 Oct 17 15:07	3° \mathcal{B} 58'37	4.40515 AU
min. Earth dist.	11290 May 13 02:42	0° \mathcal{A} 45'26	4.09692 AU		11295 Nov 23 21:12	30° \mathcal{R} \mathcal{Y}	
opposition	11290 May 14 17:10	0° \mathcal{A} 32'25	0°41'42	direct	11295 Dec 17 11:11	29° \mathcal{Y} 09'55	
	11290 May 18 17:09	30° \mathcal{R} \mathbb{M}			11296 Jan 10 02:01	0° \mathcal{B}	
direct	11290 Jul 12 15:25	25° \mathbb{M} 34'14			11296 Apr 12 02:30	15° \mathcal{B}	
	11290 Sep 04 17:09	0° \mathcal{A}		evening set	11296 Apr 20 14:03	16° \mathcal{B} 51'47	
evening set	11290 Nov 16 04:50	14° \mathcal{A} 26'35		max. Earth dist.	11296 May 01 02:04	19° \mathcal{B} 11'56	6.33537 AU
conjunction	11290 Nov 29 18:16	17° \mathcal{A} 31'36	0°35'29	conjunction	11296 May 03 09:29	19° \mathcal{B} 42'52	-0°21'57
minimum elong	11290 Nov 29 18:15	17° \mathcal{A} 31'36	0°36'09	minimum elong	11296 May 03 09:28	19° \mathcal{B} 42'52	0°22'25
max. Earth dist.	11290 Dec 02 02:33	18° \mathcal{A} 03'38	6.18465 AU	morning rise	11296 May 16 03:43	22° \mathcal{B} 33'41	
morning rise	11290 Dec 13 07:51	20° \mathcal{A} 36'20			11296 Jun 20 00:52	0° \mathbb{I}	
	11291 Jan 26 13:23	0° \mathcal{B}		retrograde	11296 Sep 16 23:03	10° \mathbb{I} 21'54	
retrograde	11291 Apr 17 22:41	9° \mathcal{B} 02'00		opposition	11296 Nov 16 16:18	5° \mathbb{I} 28'22	-0°45'12
min. Earth dist.	11291 Jun 15 19:46	4° \mathcal{B} 10'18	4.27124 AU	min. Earth dist.	11296 Nov 18 07:09	5° \mathbb{I} 15'52	4.25402 AU
opposition	11291 Jun 17 02:58	3° \mathcal{B} 59'53	0°59'00	direct	11297 Jan 17 03:13	0° \mathbb{I} 29'13	
	11291 Jul 22 04:42	30° \mathcal{R} \mathcal{A}		evening set	11297 May 22 18:46	18° \mathbb{I} 58'01	
direct	11291 Aug 16 06:07	28° \mathcal{A} 59'55		max. Earth dist.	11297 Jun 02 11:54	21° \mathbb{I} 26'35	6.16772 AU
	11291 Sep 10 15:18	0° \mathcal{B}					
evening set	11291 Dec 20 06:00	17° \mathcal{B} 00'08		conjunction	11297 Jun 04 14:44	21° \mathbb{I} 56'04	-0°37'05
				minimum elong	11297 Jun 04 14:43	21° \mathbb{I} 56'04	0°37'46
conjunction	11292 Jan 02 15:36	19° \mathcal{B} 56'27	0°41'13	morning rise	11297 Jun 17 10:43	24° \mathbb{I} 54'29	
minimum elong	11292 Jan 02 15:36	19° \mathcal{B} 56'27	0°41'53		11297 Jul 09 23:17	0° \mathcal{E}	
max. Earth dist.	11292 Jan 04 02:19	20° \mathcal{B} 15'31	6.35180 AU	retrograde	11297 Oct 22 13:09	13° \mathcal{E} 54'32	
morning rise	11292 Jan 16 00:11	22° \mathcal{B} 52'01		opposition	11297 Dec 21 17:32	8° \mathcal{E} 59'31	-1°00'49
	11292 Feb 19 03:45	0° \approx		min. Earth dist.	11297 Dec 22 23:24	8° \mathcal{E} 49'45	4.08176 AU
retrograde	11292 May 17 19:25	10° \approx 13'44		direct	11298 Feb 19 21:54	4° \mathcal{E} 02'18	
opposition	11292 Jul 17 09:26	5° \approx 14'42	0°57'31	evening set	11298 Jun 26 03:48	23° \mathcal{E} 24'41	
min. Earth dist.	11292 Jul 16 19:38	5° \approx 19'14	4.41851 AU	max. Earth dist.	11298 Jul 07 22:45	26° \mathcal{E} 14'09	6.00597 AU
direct	11292 Sep 16 18:59	0° \approx 13'47					
	11293 Jan 07 20:26	15° \approx		conjunction	11298 Jul 09 03:43	26° \mathcal{E} 31'33	-0°40'30
evening set	11293 Jan 20 04:36	17° \approx 36'18		minimum elong	11298 Jul 09 03:43	26° \mathcal{E} 31'33	0°41'08
				morning rise	11298 Jul 22 04:47	29° \mathcal{E} 39'21	
conjunction	11293 Feb 02 09:32	20° \approx 26'09	0°34'51		11298 Jul 23 15:24	0° \mathcal{Q}	
minimum elong	11293 Feb 02 09:32	20° \approx 26'10	0°35'19		11298 Oct 03 13:23	15° \mathcal{Q}	
max. Earth dist.	11293 Feb 02 15:04	20° \approx 29'08	6.46878 AU	retrograde	11298 Nov 29 11:32	19° \mathcal{Q} 51'29	
morning rise	11293 Feb 15 12:49	23° \approx 15'04			11299 Jan 27 09:01	15° \mathcal{R} \mathcal{Q}	
	11293 Mar 20 11:30	0° \mathcal{H}		opposition	11299 Jan 28 03:11	14° \mathcal{Q} 53'58	-0°55'04
retrograde	11293 Jun 16 12:11	9° \mathcal{H} 58'25		min. Earth dist.	11299 Jan 28 11:06	14° \mathcal{Q} 51'20	3.94615 AU
opposition	11293 Aug 16 10:26	5° \mathcal{H} 02'22	0°40'45	direct	11299 Mar 27 22:50	9° \mathcal{Q} 58'37	
min. Earth dist.	11293 Aug 16 15:59	5° \mathcal{H} 00'34	4.49879 AU		11299 May 23 16:10	15° \mathcal{Q}	
direct	11293 Oct 17 16:36	0° \mathcal{H} 01'06		evening set	11299 Aug 01 19:58	0° \mathcal{M} 01'20	
evening set	11294 Feb 19 18:08	17° \mathcal{H} 07'16			11299 Aug 01 17:47	0° \mathcal{M}	
conjunction	11294 Mar 04 18:47	19° \mathcal{H} 53'58	0°19'22	conjunction	11299 Aug 15 02:06	3° \mathcal{M} 15'41	-0°28'36
minimum elong	11294 Mar 04 18:48	19° \mathcal{H} 53'59	0°19'34	minimum elong	11299 Aug 15 02:07	3° \mathcal{M} 15'41	0°28'57
max. Earth dist.	11294 Mar 03 20:56	19° \mathcal{H} 42'17	6.50711 AU	max. Earth dist.	11299 Aug 15 08:00	3° \mathcal{M} 19'17	5.91006 AU
morning rise	11294 Mar 17 17:18	22° \mathcal{H} 39'44		morning rise	11299 Aug 28 10:30	6° \mathcal{M} 31'19	
	11294 Apr 22 21:03	0° \mathcal{Y}		retrograde	11300 Jan 07 08:43	27° \mathcal{M} 22'52	
retrograde	11294 Jul 16 05:32	9° \mathcal{Y} 14'45		opposition	11300 Mar 07 17:24	22° \mathcal{M} 22'02	-0°26'31
opposition	11294 Sep 15 07:45	4° \mathcal{Y} 20'49	0°13'52	min. Earth dist.	11300 Mar 07 00:01	22° \mathcal{M} 27'55	3.90170 AU
min. Earth dist.	11294 Sep 16 07:25	4° \mathcal{Y} 13'15	4.49384 AU	direct	11300 May 04 17:50	17° \mathcal{M} 27'07	
	11294 Oct 26 17:58	30° \mathcal{R} \mathcal{H}			11300 Aug 07 09:19	0° \mathcal{L}	
direct	11294 Nov 16 22:28	29° \mathcal{H} 19'46		evening set	11300 Sep 08 21:50	7° \mathcal{L} 36'14	
	11294 Dec 08 06:53	0° \mathcal{Y}					
desc. node	11295 Mar 12 13:35	14° \mathcal{Y} 33'22		conjunction	11300 Sep 22 10:08	10° \mathcal{L} 52'58	-0°04'57
evening set	11295 Mar 21 21:20	16° \mathcal{Y} 32'36		minimum elong	11300 Sep 22 10:08	10° \mathcal{L} 52'58	0°04'53
max. Earth dist.	11295 Apr 01 21:31	18° \mathcal{Y} 55'21	6.45886 AU	behind sun begin	11300 Sep 22 01:59	10° \mathcal{L} 48'02	
				behind sun end	11300 Sep 22 18:17	10° \mathcal{L} 57'53	
conjunction	11295 Apr 03 18:25	19° \mathcal{Y} 19'43	-0°01'13	max. Earth dist.	11300 Sep 24 04:16	11° \mathcal{L} 18'34	5.92175 AU
minimum elong	11295 Apr 03 18:25	19° \mathcal{Y} 19'43	0°01'23	morning rise	11300 Oct 06 00:25	14° \mathcal{L} 10'38	
behind sun begin	11295 Apr 03 10:26	19° \mathcal{Y} 15'24		asc. node	11300 Dec 07 05:53	27° \mathcal{L} 46'05	
behind sun end	11295 Apr 04 02:25	19° \mathcal{Y} 24'02			11300 Dec 20 09:15	0° \mathbb{M}	
morning rise	11295 Apr 16 13:55	22° \mathcal{Y} 06'12		retrograde	11301 Feb 14 06:21	4° \mathbb{M} 45'26	
	11295 May 25 01:26	0° \mathcal{B}			11301 Apr 12 09:57	30° \mathcal{R} \mathcal{L}	

min. Earth dist.	11301 Apr 13 04:43	29° Ω 53'38	3.96856 AU	behind sun begin	11307 Apr 08 15:30	23° Υ 32'30	
opposition	11301 Apr 14 14:55	29° Ω 42'01	0°12'48	behind sun end	11307 Apr 09 07:09	23° Υ 40'58	
direct	11301 Jun 11 18:41	24° Ω 45'42		morning rise	11307 Apr 21 18:21	26° Υ 23'31	
	11301 Aug 08 23:31	0° \mathbb{M}			11307 May 08 16:44	0° \mathcal{B}	
evening set	11301 Oct 16 18:25	14° \mathbb{M} 23'39		retrograde	11307 Aug 21 11:20	13° \mathcal{B} 25'43	
	11301 Oct 19 08:17	15° \mathbb{M}		opposition	11307 Oct 21 11:35	8° \mathcal{B} 32'31	-0°21'29
				min. Earth dist.	11307 Oct 23 00:37	8° \mathcal{B} 20'40	4.38879 AU
conjunction	11301 Oct 30 09:09	17° \mathbb{M} 36'03	0°20'19	direct	11307 Dec 22 17:56	3° \mathcal{B} 32'09	
minimum elong	11301 Oct 30 09:08	17° \mathbb{M} 36'02	0°20'47		11308 Mar 27 11:36	15° \mathcal{B}	
max. Earth dist.	11301 Nov 01 20:38	18° \mathbb{M} 11'07	6.03597 AU	evening set	11308 Apr 25 22:31	21° \mathcal{B} 18'54	
morning rise	11301 Nov 13 01:08	20° \mathbb{M} 48'45		max. Earth dist.	11308 May 06 09:41	23° \mathcal{B} 39'14	6.31580 AU
	11301 Dec 24 12:04	0° \mathcal{X}					
retrograde	11302 Mar 21 13:49	10° \mathcal{X} 21'18		conjunction	11308 May 08 17:41	24° \mathcal{B} 10'40	-0°24'31
min. Earth dist.	11302 May 18 17:07	5° \mathcal{X} 30'35	4.11696 AU	minimum elong	11308 May 08 17:40	24° \mathcal{B} 10'40	0°25'02
opposition	11302 May 20 07:42	5° \mathcal{X} 17'33	0°45'07	morning rise	11308 May 21 12:03	27° \mathcal{B} 02'17	
direct	11302 Jul 18 07:51	0° \mathcal{X} 19'07			11308 Jun 03 21:56	0° \mathbb{I}	
evening set	11302 Nov 21 21:36	19° \mathcal{X} 05'26		retrograde	11308 Sep 22 17:28	14° \mathbb{I} 58'42	
				opposition	11308 Nov 22 08:41	10° \mathbb{I} 04'58	-0°48'18
conjunction	11302 Dec 05 10:39	22° \mathcal{X} 09'26	0°37'01	min. Earth dist.	11308 Nov 23 23:44	9° \mathbb{I} 52'22	4.23216 AU
minimum elong	11302 Dec 05 10:39	22° \mathcal{X} 09'26	0°37'40	direct	11309 Jan 22 17:01	5° \mathbb{I} 05'57	
max. Earth dist.	11302 Dec 07 15:36	22° \mathcal{X} 39'27	6.20437 AU	evening set	11309 May 28 08:48	23° \mathbb{I} 41'24	
morning rise	11302 Dec 18 23:44	25° \mathcal{X} 13'05		max. Earth dist.	11309 Jun 08 04:06	26° \mathbb{I} 11'56	6.14531 AU
	11303 Jan 09 17:47	0° \mathcal{Z}					
retrograde	11303 Apr 23 06:40	13° \mathcal{Z} 30'45		conjunction	11309 Jun 10 05:11	26° \mathbb{I} 40'33	-0°38'22
min. Earth dist.	11303 Jun 21 06:51	8° \mathcal{Z} 38'25	4.28907 AU	minimum elong	11309 Jun 10 05:11	26° \mathbb{I} 40'33	0°39'03
opposition	11303 Jun 22 11:10	8° \mathcal{Z} 28'59	0°59'52	morning rise	11309 Jun 23 01:37	29° \mathbb{I} 40'07	
direct	11303 Aug 21 18:58	3° \mathcal{Z} 28'52			11309 Jun 24 11:56	0° \mathcal{E}	
evening set	11303 Dec 25 16:56	21° \mathcal{Z} 24'33		retrograde	11309 Oct 28 14:02	18° \mathcal{E} 50'04	
				opposition	11309 Dec 27 17:36	13° \mathcal{E} 54'47	-1°01'24
conjunction	11304 Jan 08 02:03	24° \mathcal{Z} 20'05	0°41'00	min. Earth dist.	11309 Dec 28 20:44	13° \mathcal{E} 45'54	4.06071 AU
minimum elong	11304 Jan 08 02:04	24° \mathcal{Z} 20'05	0°41'39	direct	11310 Feb 25 16:43	8° \mathcal{E} 57'51	
max. Earth dist.	11304 Jan 09 09:56	24° \mathcal{Z} 37'32	6.36653 AU	evening set	11310 Jul 02 01:32	28° \mathcal{E} 26'45	
morning rise	11304 Jan 21 10:00	27° \mathcal{Z} 14'47			11310 Jul 08 12:55	0° \mathcal{Q}	
	11304 Feb 03 05:41	0° \approx		max. Earth dist.	11310 Jul 14 00:24	1° \mathcal{Q} 19'16	5.98820 AU
retrograde	11304 May 22 21:35	14° \approx 31'12					
opposition	11304 Jul 22 13:30	9° \approx 32'33	0°56'00	conjunction	11310 Jul 15 02:04	1° \mathcal{Q} 34'45	-0°39'44
min. Earth dist.	11304 Jul 22 01:16	9° \approx 36'33	4.42947 AU	minimum elong	11310 Jul 15 02:04	1° \mathcal{Q} 34'45	0°40'22
direct	11304 Sep 22 01:08	4° \approx 31'32		morning rise	11310 Jul 28 04:07	4° \mathcal{Q} 43'47	
	11304 Dec 22 23:00	15° \approx			11310 Sep 11 13:25	15° \mathcal{Q}	
evening set	11305 Jan 25 11:17	21° \approx 51'49		retrograde	11310 Dec 05 18:49	25° \mathcal{Q} 03'55	
				opposition	11311 Feb 03 09:10	20° \mathcal{Q} 05'57	-0°52'19
conjunction	11305 Feb 07 15:41	24° \approx 41'12	0°33'08	min. Earth dist.	11311 Feb 03 13:55	20° \mathcal{Q} 04'22	3.93350 AU
minimum elong	11305 Feb 07 15:42	24° \approx 41'13	0°33'35	direct	11311 Apr 03 01:49	15° \mathcal{Q} 10'42	
max. Earth dist.	11305 Feb 07 18:05	24° \approx 42'30	6.47537 AU		11311 Jul 16 20:36	0° \mathbb{P}	
morning rise	11305 Feb 20 18:16	27° \approx 29'37		evening set	11311 Aug 08 00:01	5° \mathbb{P} 16'56	
	11305 Mar 04 15:33	0° \mathcal{H}					
retrograde	11305 Jun 21 15:16	14° \mathcal{H} 10'57		conjunction	11311 Aug 21 07:16	8° \mathbb{P} 32'04	-0°25'50
opposition	11305 Aug 21 13:46	9° \mathcal{H} 15'13	0°37'28	minimum elong	11311 Aug 21 07:17	8° \mathbb{P} 32'04	0°26'09
min. Earth dist.	11305 Aug 21 21:57	9° \mathcal{H} 12'35	4.50070 AU	max. Earth dist.	11311 Aug 21 19:26	8° \mathbb{P} 39'30	5.90405 AU
direct	11305 Oct 22 22:24	4° \mathcal{H} 13'57		morning rise	11311 Sep 03 16:32	11° \mathbb{P} 48'25	
evening set	11306 Feb 24 22:47	21° \mathcal{H} 20'09			11311 Dec 03 11:11	0° \mathcal{L}	
				retrograde	11312 Jan 13 17:24	2° \mathcal{L} 41'38	
conjunction	11306 Mar 09 22:47	24° \mathcal{H} 06'44	0°16'42		11312 Feb 24 02:16	30° \mathcal{R} \mathbb{P}	
minimum elong	11306 Mar 09 22:48	24° \mathcal{H} 06'45	0°16'51	min. Earth dist.	11312 Mar 12 04:51	27° \mathbb{P} 47'01	3.90311 AU
max. Earth dist.	11306 Mar 08 20:53	23° \mathcal{H} 52'52	6.50407 AU	opposition	11312 Mar 13 00:22	27° \mathbb{P} 40'26	-0°21'18
morning rise	11306 Mar 22 20:57	26° \mathcal{H} 52'27		direct	11312 May 10 00:06	22° \mathbb{P} 45'26	
	11306 Apr 06 18:09	0° Υ			11312 Jul 17 23:05	0° \mathcal{L}	
retrograde	11306 Jul 21 10:49	13° Υ 28'56		evening set	11312 Sep 14 04:11	12° \mathcal{L} 53'00	
opposition	11306 Sep 20 12:52	8° Υ 35'03	0°09'37				
min. Earth dist.	11306 Sep 21 14:27	8° Υ 26'52	4.48599 AU	conjunction	11312 Sep 27 17:02	16° \mathcal{L} 09'35	-0°01'15
direct	11306 Nov 22 03:42	3° Υ 33'57		minimum elong	11312 Sep 27 17:02	16° \mathcal{L} 09'36	0°01'07
desc. node	11307 Jan 19 23:08	8° Υ 16'12		behind sun begin	11312 Sep 27 08:39	16° \mathcal{L} 04'32	
evening set	11307 Mar 27 02:26	20° Υ 49'18		behind sun end	11312 Sep 28 01:25	16° \mathcal{L} 14'39	
max. Earth dist.	11307 Apr 07 01:46	23° Υ 11'57	6.44652 AU	max. Earth dist.	11312 Sep 29 14:16	16° \mathcal{L} 37'00	5.93024 AU
				morning rise	11312 Oct 11 08:02	19° \mathcal{L} 27'08	
conjunction	11307 Apr 08 23:19	23° Υ 36'44	-0°04'15	asc. node	11312 Oct 16 16:15	20° \mathcal{L} 43'52	
minimum elong	11307 Apr 08 23:20	23° Υ 36'44	0°04'28		11312 Nov 27 00:16	0° \mathbb{M}	

retrograde	11313 Feb 19 07:05	9° \mathbb{M} 56'18		desc. node	11318 Dec 01 15:29	7° Υ 46'15	
min. Earth dist.	11313 Apr 18 04:24	5° \mathbb{M} 05'08	3.98323 AU	evening set	11319 Mar 31 05:10	25° Υ 00'58	
opposition	11313 Apr 19 16:54	4° \mathbb{M} 52'44	0°18'04	max. Earth dist.	11319 Apr 10 23:58	27° Υ 21'38	6.43518 AU
	11313 Jun 10 19:49	30° \mathbb{R} $\underline{\mathbf{A}}$					
direct	11313 Jun 16 21:19	29° $\underline{\mathbf{A}}$ 56'11		conjunction	11319 Apr 13 01:33	27° Υ 48'40	-0°07'07
	11313 Jun 22 23:09	0° \mathbb{M}		minimum elong	11319 Apr 13 01:32	27° Υ 48'40	0°07'22
	11313 Oct 02 10:20	15° \mathbb{M}		behind sun begin	11319 Apr 12 18:14	27° Υ 44'42	
evening set	11313 Oct 21 21:43	19° \mathbb{M} 28'42		behind sun end	11319 Apr 13 08:50	27° Υ 52'37	
					11319 Apr 23 02:32	0° \mathbb{B}	
conjunction	11313 Nov 04 12:26	22° \mathbb{M} 40'11	0°23'19	morning rise	11319 Apr 25 20:28	0° \mathbb{B} 35'49	
minimum elong	11313 Nov 04 12:25	22° \mathbb{M} 40'11	0°23'50		11319 Jul 13 21:27	15° \mathbb{B}	
max. Earth dist.	11313 Nov 06 23:33	23° \mathbb{M} 14'53	6.05541 AU	retrograde	11319 Aug 25 19:59	17° \mathbb{B} 43'05	
morning rise	11313 Nov 18 04:18	25° \mathbb{M} 51'54			11319 Oct 08 04:13	15° \mathbb{R} \mathbb{B}	
	11313 Dec 06 06:12	0° \mathbb{A}		opposition	11319 Oct 25 18:57	12° \mathbb{B} 49'48	-0°25'30
retrograde	11314 Mar 26 07:13	15° \mathbb{A} 14'59		min. Earth dist.	11319 Oct 27 09:34	12° \mathbb{B} 37'26	4.37171 AU
min. Earth dist.	11314 May 23 12:42	10° \mathbb{A} 24'00	4.13912 AU	direct	11319 Dec 26 23:50	7° \mathbb{B} 49'28	
opposition	11314 May 25 01:58	10° \mathbb{A} 11'25	0°48'20		11320 Mar 09 00:14	15° \mathbb{B}	
direct	11314 Jul 23 06:48	5° \mathbb{A} 12'46		evening set	11320 Apr 30 04:30	25° \mathbb{B} 41'38	
evening set	11314 Nov 26 18:06	23° \mathbb{A} 52'12		max. Earth dist.	11320 May 10 15:43	28° \mathbb{B} 02'37	6.29413 AU
conjunction	11314 Dec 10 06:51	26° \mathbb{A} 55'03	0°38'21	conjunction	11320 May 12 23:50	28° \mathbb{B} 34'15	-0°26'52
minimum elong	11314 Dec 10 06:50	26° \mathbb{A} 55'02	0°39'01	minimum elong	11320 May 12 23:49	28° \mathbb{B} 34'14	0°27'26
max. Earth dist.	11314 Dec 12 11:21	27° \mathbb{A} 24'38	6.22766 AU		11320 May 19 07:56	0° \mathbb{I}	
morning rise	11314 Dec 23 19:14	29° \mathbb{A} 57'25		morning rise	11320 May 25 18:10	1° \mathbb{I} 26'45	
	11314 Dec 23 23:52	0° \mathbb{B}		retrograde	11320 Sep 27 08:51	19° \mathbb{I} 32'24	
retrograde	11315 Apr 27 14:47	18° \mathbb{B} 05'30		opposition	11320 Nov 26 23:17	14° \mathbb{I} 38'31	-0°51'04
opposition	11315 Jun 26 21:46	13° \mathbb{B} 04'11	1°00'22	min. Earth dist.	11320 Nov 28 13:51	14° \mathbb{I} 26'04	4.20727 AU
min. Earth dist.	11315 Jun 25 18:05	13° \mathbb{B} 13'22	4.31175 AU	direct	11321 Jan 27 02:58	9° \mathbb{I} 39'43	
direct	11315 Aug 26 08:46	8° \mathbb{B} 03'59		evening set	11321 Jun 01 22:04	28° \mathbb{I} 23'14	
evening set	11315 Dec 30 05:50	25° \mathbb{B} 53'25			11321 Jun 08 19:59	0° \mathbb{O}	
				max. Earth dist.	11321 Jun 12 18:24	0° \mathbb{O} 55'19	6.11910 AU
conjunction	11316 Jan 12 14:11	28° \mathbb{B} 47'50	0°40'33	conjunction	11321 Jun 14 18:45	1° \mathbb{O} 23'40	-0°39'23
minimum elong	11316 Jan 12 14:12	28° \mathbb{B} 47'50	0°41'11	minimum elong	11321 Jun 14 18:44	1° \mathbb{O} 23'40	0°40'04
max. Earth dist.	11316 Jan 13 17:40	29° \mathbb{B} 02'49	6.38706 AU	morning rise	11321 Jun 27 15:55	4° \mathbb{O} 24'39	
	11316 Jan 18 02:34	0° \mathbb{W}		retrograde	11321 Nov 02 16:43	23° \mathbb{O} 46'18	
morning rise	11316 Jan 25 21:26	1° \mathbb{W} 41'26		opposition	11322 Jan 01 17:29	18° \mathbb{O} 50'41	-1°01'36
	11316 Apr 05 16:55	15° \mathbb{W}		min. Earth dist.	11322 Jan 02 18:38	18° \mathbb{O} 42'25	4.03528 AU
retrograde	11316 May 27 02:15	18° \mathbb{W} 50'43		direct	11322 Mar 02 12:23	13° \mathbb{O} 53'54	
	11316 Jul 18 02:09	15° \mathbb{R} \mathbb{W}			11322 Jun 22 03:50	0° \mathbb{Q}	
opposition	11316 Jul 26 18:50	13° \mathbb{W} 52'30	0°54'11	evening set	11322 Jul 06 23:44	3° \mathbb{Q} 31'12	
min. Earth dist.	11316 Jul 26 09:52	13° \mathbb{W} 55'26	4.44647 AU	max. Earth dist.	11322 Jul 19 04:58	6° \mathbb{Q} 28'20	5.96616 AU
direct	11316 Sep 26 11:29	8° \mathbb{W} 51'26					
	11316 Dec 03 06:15	15° \mathbb{W}					
evening set	11317 Jan 29 17:50	26° \mathbb{W} 07'28		conjunction	11322 Jul 20 01:22	6° \mathbb{Q} 40'42	-0°38'43
				minimum elong	11322 Jul 20 01:23	6° \mathbb{Q} 40'42	0°39'19
conjunction	11317 Feb 11 21:35	28° \mathbb{W} 56'07	0°31'18	morning rise	11322 Aug 02 04:22	9° \mathbb{Q} 51'13	
minimum elong	11317 Feb 11 21:36	28° \mathbb{W} 56'08	0°31'43		11322 Aug 23 23:17	15° \mathbb{Q}	
max. Earth dist.	11317 Feb 11 20:34	28° \mathbb{W} 55'34	6.48763 AU		11322 Nov 26 14:07	0° \mathbb{P}	
	11317 Feb 16 20:56	0° \mathbb{X}		retrograde	11322 Dec 11 05:15	0° \mathbb{P} 21'00	
morning rise	11317 Feb 24 23:26	1° \mathbb{X} 43'48			11322 Dec 25 18:03	30° \mathbb{R} \mathbb{Q}	
retrograde	11317 Jun 25 15:22	18° \mathbb{X} 21'33		opposition	11323 Feb 08 16:43	25° \mathbb{Q} 22'38	-0°49'11
opposition	11317 Aug 25 16:09	13° \mathbb{X} 26'05	0°34'05	min. Earth dist.	11323 Feb 08 18:32	25° \mathbb{Q} 22'01	3.91738 AU
min. Earth dist.	11317 Aug 26 02:09	13° \mathbb{X} 22'52	4.50757 AU	direct	11323 Apr 08 04:51	20° \mathbb{Q} 27'33	
direct	11317 Oct 27 02:12	8° \mathbb{X} 24'49			11323 Jun 27 20:59	0° \mathbb{P}	
evening set	11318 Mar 01 01:47	25° \mathbb{X} 29'40		evening set	11323 Aug 13 06:25	10° \mathbb{P} 38'35	
max. Earth dist.	11318 Mar 12 20:59	28° \mathbb{X} 00'50	6.50502 AU				
				conjunction	11323 Aug 26 14:34	13° \mathbb{P} 54'36	-0°22'51
conjunction	11318 Mar 14 01:18	28° \mathbb{X} 16'00	0°14'02	minimum elong	11323 Aug 26 14:35	13° \mathbb{P} 54'37	0°23'07
minimum elong	11318 Mar 14 01:18	28° \mathbb{X} 16'00	0°14'07	max. Earth dist.	11323 Aug 27 06:58	14° \mathbb{P} 04'40	5.89544 AU
behind sun begin	11318 Mar 13 21:24	28° \mathbb{X} 13'55		morning rise	11323 Sep 09 01:05	17° \mathbb{P} 11'54	
behind sun end	11318 Mar 14 05:13	28° \mathbb{X} 18'05			11323 Nov 05 05:10	0° $\underline{\mathbf{A}}$	
	11318 Mar 22 03:31	0° Υ		retrograde	11324 Jan 19 02:30	8° $\underline{\mathbf{A}}$ 07'21	
morning rise	11318 Mar 26 22:46	1° Υ 01'27		min. Earth dist.	11324 Mar 17 09:39	3° $\underline{\mathbf{A}}$ 13'45	3.90329 AU
retrograde	11318 Jul 25 13:21	17° Υ 38'27		opposition	11324 Mar 18 09:27	3° $\underline{\mathbf{A}}$ 05'41	-0°15'54
opposition	11318 Sep 24 15:56	12° Υ 44'44	0°05'28		11324 Apr 12 05:03	30° \mathbb{R} \mathbb{P}	
min. Earth dist.	11318 Sep 25 19:58	12° Υ 35'47	4.48077 AU	direct	11324 May 15 07:22	28° \mathbb{P} 10'33	
direct	11318 Nov 26 07:39	7° Υ 43'42			11324 Jun 17 07:50	0° $\underline{\mathbf{A}}$	

asc. node	11324 Aug 25 02:11	12°♌17'32		conjunction	11330 Mar 18 05:20	2°♏28'50	0°11'11
evening set	11324 Sep 19 13:34	18°♌16'51		minimum elong	11330 Mar 18 05:20	2°♏28'50	0°11'13
				behind sun begin	11330 Mar 17 23:26	2°♏25'41	
conjunction	11324 Oct 03 03:02	21°♌33'18	0°02'33	behind sun end	11330 Mar 18 11:15	2°♏31'58	
minimum elong	11324 Oct 03 03:00	21°♌33'17	0°02'44	morning rise	11330 Mar 31 02:23	5°♏14'16	
behind sun begin	11324 Oct 02 18:39	21°♌28'15		retrograde	11330 Jul 29 18:56	21°♏53'31	
behind sun end	11324 Oct 03 11:22	21°♌38'19		opposition	11330 Sep 28 21:50	16°♏59'55	0°01'05
max. Earth dist.	11324 Oct 05 03:58	22°♌02'53	5.93915 AU	min. Earth dist.	11330 Sep 30 03:28	16°♏50'27	4.47037 AU
morning rise	11324 Oct 16 18:28	24°♌50'34		desc. node	11330 Oct 12 08:34	15°♏18'50	
	11324 Nov 07 17:50	0°♍		direct	11330 Nov 30 12:25	11°♏58'56	
	11325 Feb 12 21:36	15°♍		evening set	11331 Apr 04 11:03	29°♏19'50	
retrograde	11325 Feb 24 10:36	15°♍13'24			11331 Apr 07 12:59	0°♏	
	11325 Mar 07 22:13	15°♍♍		max. Earth dist.	11331 Apr 15 04:51	1°♏40'26	6.41890 AU
min. Earth dist.	11325 Apr 23 07:45	10°♍22'13	3.99955 AU				
opposition	11325 Apr 24 21:01	10°♍09'33	0°23'12	conjunction	11331 Apr 17 07:15	2°♏08'02	-0°10'05
direct	11325 Jun 22 04:30	5°♍12'39		minimum elong	11331 Apr 17 07:15	2°♏08'02	0°10'23
	11325 Sep 13 09:39	15°♍		behind sun begin	11331 Apr 17 00:57	2°♏04'36	
evening set	11325 Oct 27 03:03	24°♍38'41		behind sun end	11331 Apr 17 13:32	2°♏11'28	
				morning rise	11331 Apr 30 01:48	4°♏55'42	
conjunction	11325 Nov 09 17:51	27°♍49'09	0°26'08		11331 Jun 18 22:05	15°♏	
minimum elong	11325 Nov 09 17:49	27°♍49'08	0°26'41	retrograde	11331 Aug 30 08:12	22°♏09'42	
max. Earth dist.	11325 Nov 12 07:26	28°♍25'05	6.07742 AU	opposition	11331 Oct 30 06:29	17°♏16'29	-0°29'37
	11325 Nov 19 02:25	0°♎		min. Earth dist.	11331 Oct 31 22:22	17°♏03'43	4.35044 AU
morning rise	11325 Nov 23 09:21	0°♎59'40			11331 Nov 17 16:42	15°♎♏	
retrograde	11326 Mar 31 00:43	20°♎11'48		direct	11331 Dec 31 08:49	12°♏16'21	
min. Earth dist.	11326 May 28 07:56	15°♎20'59	4.16427 AU		11332 Feb 12 14:33	15°♏	
opposition	11326 May 29 21:24	15°♎08'22	0°51'11		11332 May 03 12:02	0°♐	
direct	11326 Jul 28 05:51	10°♎09'25		evening set	11332 May 04 15:23	0°♐15'20	
evening set	11326 Dec 01 15:25	28°♎40'39		max. Earth dist.	11332 May 15 01:07	2°♐36'21	6.26932 AU
	11326 Dec 07 13:22	0°♑					
				conjunction	11332 May 17 10:37	3°♐08'57	-0°29'12
conjunction	11326 Dec 15 03:26	1°♑42'06	0°39'24	minimum elong	11332 May 17 10:36	3°♐08'56	0°29'47
minimum elong	11326 Dec 15 03:25	1°♑42'06	0°40'06	morning rise	11332 May 30 05:19	6°♐02'35	
max. Earth dist.	11326 Dec 17 04:16	2°♑09'29	6.25344 AU	retrograde	11332 Oct 02 07:12	24°♐18'47	
morning rise	11326 Dec 28 15:16	4°♑43'04		opposition	11332 Dec 01 19:34	19°♐24'45	-0°53'39
retrograde	11327 May 02 00:25	22°♑40'52		min. Earth dist.	11332 Dec 03 09:06	19°♐12'36	4.18053 AU
min. Earth dist.	11327 Jun 30 08:06	17°♑48'06	4.33581 AU	direct	11333 Jan 31 19:10	14°♐26'12	
opposition	11327 Jul 01 08:58	17°♑39'52	1°00'28		11333 May 23 08:40	0°♑	
direct	11327 Aug 31 01:41	12°♑39'24		evening set	11333 Jun 06 16:32	3°♑18'22	
	11328 Jan 02 01:40	0°♒		max. Earth dist.	11333 Jun 17 17:24	5°♑53'57	6.09287 AU
evening set	11328 Jan 03 18:48	0°♒22'10					
				conjunction	11333 Jun 19 13:55	6°♑20'12	-0°40'10
conjunction	11328 Jan 17 02:37	3°♒15'31	0°39'50	minimum elong	11333 Jun 19 13:55	6°♑20'12	0°40'52
minimum elong	11328 Jan 17 02:37	3°♒15'31	0°40'27	morning rise	11333 Jul 02 11:37	9°♑22'37	
max. Earth dist.	11328 Jan 18 03:38	3°♒29'06	6.40754 AU	retrograde	11333 Nov 08 01:35	28°♑55'58	
morning rise	11328 Jan 30 08:53	6°♒07'57		opposition	11334 Jan 06 23:08	24°♑00'07	-1°01'18
	11328 Mar 14 03:39	15°♒		min. Earth dist.	11334 Jan 07 21:54	23°♑52'38	4.01208 AU
retrograde	11328 May 31 05:05	23°♒10'18		direct	11334 Mar 07 12:46	19°♑03'44	
opposition	11328 Jul 31 00:18	18°♒12'30	0°52'01		11334 Jun 03 20:55	0°♓	
min. Earth dist.	11328 Jul 30 17:16	18°♒14'48	4.46203 AU	evening set	11334 Jul 12 03:24	8°♓48'27	
	11328 Aug 26 21:03	15°♓♒					
direct	11328 Sep 30 19:39	13°♒11'23		conjunction	11334 Jul 25 05:48	11°♓59'11	-0°37'20
	11328 Nov 05 03:03	15°♒		minimum elong	11334 Jul 25 05:49	11°♓59'11	0°37'52
	11329 Feb 01 04:07	0°♔		max. Earth dist.	11334 Jul 24 13:10	11°♓49'04	5.94834 AU
evening set	11329 Feb 03 01:04	0°♔23'49			11334 Aug 06 15:42	15°♓	
				morning rise	11334 Aug 07 10:02	15°♓11'05	
conjunction	11329 Feb 16 04:03	3°♔11'49	0°29'14		11334 Oct 15 07:09	0°♕	
minimum elong	11329 Feb 16 04:03	3°♔11'50	0°29'37	retrograde	11334 Dec 16 16:42	5°♕48'27	
max. Earth dist.	11329 Feb 15 22:02	3°♔08'37	6.49718 AU	opposition	11335 Feb 14 04:02	0°♕49'40	-0°45'28
morning rise	11329 Mar 01 05:15	5°♔58'53		min. Earth dist.	11335 Feb 14 00:55	0°♕50'42	3.90732 AU
retrograde	11329 Jun 29 19:27	22°♔34'09			11335 Feb 20 09:12	30°♕♓	
opposition	11329 Aug 29 20:07	17°♔39'03	0°30'24	direct	11335 Apr 13 12:09	25°♓54'46	
min. Earth dist.	11329 Aug 30 09:53	17°♔34'37	4.51058 AU		11335 Jun 03 00:54	0°♕	
direct	11329 Oct 31 09:15	12°♔37'46		evening set	11335 Aug 18 16:15	16°♕08'07	
evening set	11330 Mar 05 06:21	29°♔42'33					
	11330 Mar 06 15:09	0°♖		conjunction	11335 Sep 01 01:23	19°♕24'40	-0°19'35
max. Earth dist.	11330 Mar 16 20:39	2°♖11'18	6.50117 AU	minimum elong	11335 Sep 01 01:24	19°♕24'40	0°19'46

max. Earth dist.	11335 Sep 02 00:06	19° \mathbb{M} 38'36	5.89449 AU	min. Earth dist.	11341 Sep 03 14:26	21° \mathbb{H} 44'46	4.50895 AU
morning rise	11335 Sep 14 12:44	22° \mathbb{M} 42'25		direct	11341 Nov 04 11:50	16° \mathbb{H} 48'31	
	11335 Oct 15 11:44	0° \mathbb{L}			11342 Feb 18 17:21	0° \mathbb{Y}	
retrograde	11336 Jan 24 13:11	13° \mathbb{L} 36'36		evening set	11342 Mar 09 10:15	3° \mathbb{Y} 54'40	
opposition	11336 Mar 23 19:43	8° \mathbb{L} 34'29	-0°10'14	max. Earth dist.	11342 Mar 20 20:43	6° \mathbb{Y} 21'42	6.49270 AU
min. Earth dist.	11336 Mar 22 17:32	8° \mathbb{L} 43'22	3.91161 AU				
direct	11336 May 20 18:47	3° \mathbb{L} 39'12		conjunction	11342 Mar 22 08:45	6° \mathbb{Y} 41'04	0°08'19
asc. node	11336 Jul 03 08:10	6° \mathbb{L} 45'13		minimum elong	11342 Mar 22 08:45	6° \mathbb{Y} 41'04	0°08'19
evening set	11336 Sep 24 22:59	23° \mathbb{L} 41'01		behind sun begin	11342 Mar 22 01:42	6° \mathbb{Y} 37'18	
				behind sun end	11342 Mar 22 15:47	6° \mathbb{Y} 44'50	
conjunction	11336 Oct 08 12:56	26° \mathbb{L} 56'52	0°06'15	morning rise	11342 Apr 04 05:23	9° \mathbb{Y} 26'40	
minimum elong	11336 Oct 08 12:56	26° \mathbb{L} 56'52	0°06'30	retrograde	11342 Aug 03 02:24	26° \mathbb{Y} 09'37	
behind sun begin	11336 Oct 08 05:04	26° \mathbb{L} 52'09		desc. node	11342 Aug 24 03:22	25° \mathbb{Y} 28'44	
behind sun end	11336 Oct 08 20:47	27° \mathbb{L} 01'34		opposition	11342 Oct 03 04:08	21° \mathbb{Y} 16'11	-0°03'16
max. Earth dist.	11336 Oct 10 18:48	27° \mathbb{L} 29'16	5.95581 AU	min. Earth dist.	11342 Oct 04 12:41	21° \mathbb{Y} 05'47	4.45556 AU
	11336 Oct 21 06:07	0° \mathbb{M}		direct	11342 Dec 04 18:35	16° \mathbb{Y} 15'15	
morning rise	11336 Oct 22 04:35	0° \mathbb{M} 13'24			11343 Mar 22 12:42	0° \mathbb{B}	
	11336 Dec 31 05:05	15° \mathbb{M}		evening set	11343 Apr 08 17:28	3° \mathbb{B} 41'03	
retrograde	11337 Mar 01 11:29	20° \mathbb{M} 26'49		max. Earth dist.	11343 Apr 19 08:07	6° \mathbb{B} 00'37	6.39873 AU
min. Earth dist.	11337 Apr 28 08:38	15° \mathbb{M} 36'02	4.02253 AU				
opposition	11337 Apr 29 23:23	15° \mathbb{M} 22'53	0°28'05	conjunction	11343 Apr 21 13:26	6° \mathbb{B} 29'56	-0°12'59
	11337 May 02 18:54	15° \mathbb{R} \mathbb{M}		minimum elong	11343 Apr 21 13:25	6° \mathbb{B} 29'56	0°13'22
direct	11337 Jun 27 09:22	10° \mathbb{M} 25'43		behind sun begin	11343 Apr 21 08:48	6° \mathbb{B} 27'24	
	11337 Aug 20 21:14	15° \mathbb{M}		behind sun end	11343 Apr 21 18:03	6° \mathbb{B} 32'28	
evening set	11337 Nov 01 06:08	29° \mathbb{M} 43'13		morning rise	11343 May 04 08:01	9° \mathbb{B} 18'22	
	11337 Nov 02 11:14	0° \mathbb{X}			11343 May 31 02:03	15° \mathbb{B}	
conjunction	11337 Nov 14 20:29	2° \mathbb{X} 52'16	0°28'43	retrograde	11343 Sep 03 22:30	26° \mathbb{B} 40'28	
minimum elong	11337 Nov 14 20:28	2° \mathbb{X} 52'16	0°29'18	opposition	11343 Nov 03 19:51	21° \mathbb{B} 47'09	-0°33'35
max. Earth dist.	11337 Nov 17 08:26	3° \mathbb{X} 27'01	6.10421 AU	min. Earth dist.	11343 Nov 05 11:28	21° \mathbb{B} 34'26	4.32623 AU
morning rise	11337 Nov 28 11:43	6° \mathbb{X} 01'22		direct	11344 Jan 04 18:21	16° \mathbb{B} 47'10	
retrograde	11338 Apr 04 14:29	25° \mathbb{X} 01'29			11344 Apr 16 23:02	0° \mathbb{I}	
min. Earth dist.	11338 Jun 02 01:31	20° \mathbb{X} 10'23	4.19212 AU	evening set	11344 May 09 03:45	4° \mathbb{I} 53'45	
opposition	11338 Jun 03 13:36	19° \mathbb{X} 58'15	0°53'35	max. Earth dist.	11344 May 19 15:59	7° \mathbb{I} 16'59	6.24302 AU
direct	11338 Aug 02 03:23	14° \mathbb{X} 58'59		conjunction	11344 May 21 23:14	7° \mathbb{I} 48'30	-0°31'21
	11338 Nov 21 01:09	0° \mathbb{Z}		minimum elong	11344 May 21 23:13	7° \mathbb{I} 48'29	0°31'58
evening set	11338 Dec 06 09:15	3° \mathbb{Z} 21'40		morning rise	11344 Jun 03 18:03	10° \mathbb{I} 43'16	
				retrograde	11344 Oct 07 08:33	29° \mathbb{I} 10'28	
conjunction	11338 Dec 19 20:49	6° \mathbb{Z} 21'45	0°40'11	opposition	11344 Dec 06 18:12	24° \mathbb{I} 16'16	-0°55'54
minimum elong	11338 Dec 19 20:49	6° \mathbb{Z} 21'45	0°40'53	min. Earth dist.	11344 Dec 08 06:45	24° \mathbb{I} 04'25	4.15422 AU
max. Earth dist.	11338 Dec 21 19:41	6° \mathbb{Z} 47'53	6.28013 AU	direct	11345 Feb 05 13:21	19° \mathbb{I} 18'02	
morning rise	11339 Jan 02 07:42	9° \mathbb{Z} 21'13			11345 May 05 11:18	0° \mathbb{O}	
retrograde	11339 May 06 06:50	27° \mathbb{Z} 08'58		evening set	11345 Jun 11 13:17	8° \mathbb{O} 18'24	
opposition	11339 Jul 05 16:54	22° \mathbb{Z} 08'27	1°00'12	max. Earth dist.	11345 Jun 22 16:45	10° \mathbb{O} 56'25	6.06885 AU
min. Earth dist.	11339 Jul 04 18:14	22° \mathbb{Z} 15'56	4.35920 AU				
direct	11339 Sep 04 13:48	17° \mathbb{Z} 07'52		conjunction	11345 Jun 24 11:05	11° \mathbb{O} 21'30	-0°40'39
	11339 Dec 16 15:55	0° \mathbb{A}		minimum elong	11345 Jun 24 11:05	11° \mathbb{O} 21'30	0°41'22
evening set	11340 Jan 08 04:41	4° \mathbb{A} 44'31		morning rise	11345 Jul 07 09:41	14° \mathbb{O} 25'20	
					11345 Sep 21 20:53	0° \mathbb{Q}	
conjunction	11340 Jan 21 11:38	7° \mathbb{A} 36'50	0°38'55	retrograde	11345 Nov 13 09:08	4° \mathbb{Q} 09'09	
minimum elong	11340 Jan 21 11:38	7° \mathbb{A} 36'50	0°39'30		11346 Jan 06 06:42	30° \mathbb{R} \mathbb{O}	
max. Earth dist.	11340 Jan 22 06:42	7° \mathbb{A} 47'09	6.42582 AU	opposition	11346 Jan 12 06:08	29° \mathbb{O} 12'53	-1°00'29
morning rise	11340 Feb 03 17:19	10° \mathbb{A} 28'17		min. Earth dist.	11346 Jan 13 00:33	29° \mathbb{O} 06'48	3.99280 AU
	11340 Feb 25 06:34	15° \mathbb{A}		direct	11346 Mar 12 14:23	24° \mathbb{O} 16'45	
retrograde	11340 Jun 04 08:11	27° \mathbb{A} 24'51			11346 May 12 21:18	0° \mathbb{Q}	
opposition	11340 Aug 04 03:46	22° \mathbb{A} 27'27	0°49'38	evening set	11346 Jul 17 07:51	14° \mathbb{Q} 07'02	
min. Earth dist.	11340 Aug 04 00:31	22° \mathbb{A} 28'31	4.47423 AU		11346 Jul 20 23:17	15° \mathbb{Q}	
direct	11340 Oct 05 02:48	17° \mathbb{A} 26'13					
	11341 Jan 16 01:04	0° \mathbb{H}		conjunction	11346 Jul 30 11:13	17° \mathbb{Q} 18'47	-0°35'37
evening set	11341 Feb 07 05:52	4° \mathbb{H} 36'09		minimum elong	11346 Jul 30 11:14	17° \mathbb{Q} 18'48	0°36'08
				max. Earth dist.	11346 Jul 30 01:20	17° \mathbb{Q} 12'45	5.93576 AU
conjunction	11341 Feb 20 08:24	7° \mathbb{H} 23'45	0°27'04	morning rise	11346 Aug 12 16:19	20° \mathbb{Q} 31'42	
minimum elong	11341 Feb 20 08:25	7° \mathbb{H} 23'45	0°27'23		11346 Sep 22 18:02	0° \mathbb{M}	
max. Earth dist.	11341 Feb 19 22:59	7° \mathbb{H} 18'43	6.50250 AU	retrograde	11346 Dec 22 05:30	11° \mathbb{M} 14'06	
morning rise	11341 Mar 05 08:50	10° \mathbb{H} 10'22		opposition	11347 Feb 19 14:59	6° \mathbb{M} 14'47	-0°41'20
retrograde	11341 Jul 03 20:37	26° \mathbb{H} 44'38		min. Earth dist.	11347 Feb 19 08:55	6° \mathbb{M} 16'49	3.90286 AU
opposition	11341 Sep 02 22:48	21° \mathbb{H} 49'47	0°26'39	direct	11347 Apr 18 21:55	1° \mathbb{M} 19'55	

evening set	11347 Aug 24 00:41	21° \mathbb{M} 33'08	conjunction	11353 Feb 24 13:40	11° \mathbb{H} 38'12	0°24'43
			minimum elong	11353 Feb 24 13:41	11° \mathbb{H} 38'12	0°25'00
conjunction	11347 Sep 06 10:40	24° \mathbb{M} 49'53 -0°16'11	max. Earth dist.	11353 Feb 23 22:52	11° \mathbb{H} 30'17	6.50445 AU
minimum elong	11347 Sep 06 10:40	24° \mathbb{M} 49'53 0°16'18	morning rise	11353 Mar 09 13:43	14° \mathbb{H} 24'34	
max. Earth dist.	11347 Sep 07 15:13	25° \mathbb{M} 07'21 5.89841 AU		11353 Jun 12 16:14	0° \mathbb{Y}	
morning rise	11347 Sep 19 22:47	28° \mathbb{M} 07'47	retrograde	11353 Jul 08 02:25	0° \mathbb{Y} 58'56	
	11347 Sep 27 16:37	0° \mathbb{L}		11353 Aug 02 09:52	30° \mathbb{R} \mathbb{H}	
retrograde	11348 Jan 29 20:10	18° \mathbb{L} 58'26	opposition	11353 Sep 07 03:29	26° \mathbb{H} 04'26	0°22'41
min. Earth dist.	11348 Mar 27 22:00	14° \mathbb{L} 05'51 3.92357 AU	min. Earth dist.	11353 Sep 07 22:26	25° \mathbb{H} 58'21	4.50476 AU
opposition	11348 Mar 29 03:08	13° \mathbb{L} 55'58 -0°04'36	direct	11353 Nov 08 17:45	21° \mathbb{H} 03'13	
asc. node	11348 May 13 06:35	9° \mathbb{L} 17'33		11354 Feb 01 01:55	0° \mathbb{Y}	
direct	11348 May 26 01:32	9° \mathbb{L} 00'31	evening set	11354 Mar 13 15:37	8° \mathbb{Y} 11'26	
evening set	11348 Sep 30 05:53	28° \mathbb{L} 56'52	max. Earth dist.	11354 Mar 24 23:33	10° \mathbb{Y} 37'27	6.48275 AU
	11348 Oct 04 15:40	0° \mathbb{M}				
			conjunction	11354 Mar 26 13:50	10° \mathbb{Y} 58'05	0°05'21
conjunction	11348 Oct 13 19:55	2° \mathbb{M} 11'54 0°09'49	minimum elong	11354 Mar 26 13:50	10° \mathbb{Y} 58'05	0°05'18
minimum elong	11348 Oct 13 19:55	2° \mathbb{M} 11'54 0°10'08	behind sun begin	11354 Mar 26 06:06	10° \mathbb{Y} 53'56	
behind sun begin	11348 Oct 13 13:16	2° \mathbb{M} 07'56	behind sun end	11354 Mar 26 21:34	11° \mathbb{Y} 02'13	
behind sun end	11348 Oct 14 02:35	2° \mathbb{M} 15'52	morning rise	11354 Apr 08 10:02	13° \mathbb{Y} 43'56	
max. Earth dist.	11348 Oct 16 02:34	2° \mathbb{M} 44'37 5.97419 AU	desc. node	11354 Jul 04 06:50	28° \mathbb{Y} 46'14	
morning rise	11348 Oct 27 11:53	5° \mathbb{M} 27'37		11354 Jul 20 02:13	0° \mathbb{B}	
	11348 Dec 08 21:42	15° \mathbb{M}	retrograde	11354 Aug 07 10:28	0° \mathbb{B} 31'09	
retrograde	11349 Mar 06 08:13	25° \mathbb{M} 31'22		11354 Aug 25 19:32	30° \mathbb{R} \mathbb{Y}	
min. Earth dist.	11349 May 03 07:14	20° \mathbb{M} 40'39 4.04522 AU	opposition	11354 Oct 07 12:38	25° \mathbb{Y} 37'52	-0°07'43
opposition	11349 May 04 22:20	20° \mathbb{M} 27'23 0°32'39	min. Earth dist.	11354 Oct 08 21:30	25° \mathbb{Y} 27'21	4.44073 AU
direct	11349 Jul 02 11:54	15° \mathbb{M} 29'53	direct	11354 Dec 09 00:22	20° \mathbb{Y} 37'08	
	11349 Oct 16 14:40	0° \mathbb{J}		11355 Mar 04 20:31	0° \mathbb{B}	
evening set	11349 Nov 06 06:13	4° \mathbb{J} 39'33	evening set	11355 Apr 13 01:51	8° \mathbb{B} 07'47	
			max. Earth dist.	11355 Apr 23 16:28	10° \mathbb{B} 27'55	6.38028 AU
conjunction	11349 Nov 19 20:28	7° \mathbb{J} 47'23 0°31'03	conjunction	11355 Apr 25 21:35	10° \mathbb{B} 57'17	-0°15'54
minimum elong	11349 Nov 19 20:27	7° \mathbb{J} 47'22 0°31'40	minimum elong	11355 Apr 25 21:34	10° \mathbb{B} 57'16	0°16'19
max. Earth dist.	11349 Nov 22 08:07	8° \mathbb{J} 21'47 6.12916 AU	morning rise	11355 May 08 15:59	13° \mathbb{B} 46'23	
morning rise	11349 Dec 03 11:05	10° \mathbb{J} 55'06		11355 May 14 06:27	15° \mathbb{B}	
retrograde	11350 Apr 09 04:11	29° \mathbb{J} 44'28		11355 Aug 10 19:53	0° \mathbb{I}	
min. Earth dist.	11350 Jun 06 17:28	24° \mathbb{J} 53'05 4.21689 AU	retrograde	11355 Sep 08 15:43	1° \mathbb{I} 16'01	
opposition	11350 Jun 08 03:42	24° \mathbb{J} 41'36 0°55'37		11355 Oct 07 11:21	30° \mathbb{R} \mathbb{B}	
direct	11350 Aug 06 22:01	19° \mathbb{J} 42'09	opposition	11355 Nov 08 11:02	26° \mathbb{B} 22'44	-0°37'27
	11350 Nov 03 09:21	0° \mathbb{Z}	min. Earth dist.	11355 Nov 10 03:16	26° \mathbb{B} 09'50	4.30548 AU
evening set	11350 Dec 11 01:19	7° \mathbb{Z} 57'40	direct	11356 Jan 09 07:11	21° \mathbb{B} 23'03	
				11356 Mar 29 11:41	0° \mathbb{I}	
conjunction	11350 Dec 24 12:12	10° \mathbb{Z} 56'33 0°40'43	evening set	11356 May 13 17:20	9° \mathbb{I} 35'55	
minimum elong	11350 Dec 24 12:12	10° \mathbb{Z} 56'33 0°41'24	max. Earth dist.	11356 May 24 05:59	12° \mathbb{I} 00'08	6.22177 AU
max. Earth dist.	11350 Dec 26 06:59	11° \mathbb{Z} 20'17 6.30263 AU				
morning rise	11351 Jan 06 22:32	13° \mathbb{Z} 54'50				
	11351 Apr 08 14:48	0° \mathbb{X}	conjunction	11356 May 26 12:52	12° \mathbb{I} 31'34	-0°33'22
retrograde	11351 May 10 12:25	1° \mathbb{X} 34'23	minimum elong	11356 May 26 12:51	12° \mathbb{I} 31'34	0°34'00
	11351 Jun 11 06:14	30° \mathbb{R} \mathbb{Z}	morning rise	11356 Jun 08 08:04	15° \mathbb{I} 27'22	
min. Earth dist.	11351 Jul 09 04:02	26° \mathbb{Z} 40'57 4.37795 AU		11356 Aug 20 21:27	0° \mathbb{D}	
opposition	11351 Jul 10 00:11	26° \mathbb{Z} 34'18 0°59'37	retrograde	11356 Oct 12 07:45	4° \mathbb{D} 03'41	
direct	11351 Sep 09 00:34	21° \mathbb{Z} 33'36		11356 Dec 05 03:56	30° \mathbb{R} \mathbb{I}	
	11351 Nov 28 12:30	0° \mathbb{X}	opposition	11356 Dec 11 16:56	29° \mathbb{I} 09'14	-0°57'48
evening set	11352 Jan 12 14:10	9° \mathbb{X} 05'47	min. Earth dist.	11356 Dec 13 02:23	28° \mathbb{I} 58'22	4.13427 AU
			direct	11357 Feb 10 06:57	24° \mathbb{I} 11'20	
conjunction	11352 Jan 25 20:39	11° \mathbb{X} 57'21 0°37'47		11357 Apr 14 07:00	0° \mathbb{D}	
minimum elong	11352 Jan 25 20:40	11° \mathbb{X} 57'21 0°38'21	evening set	11357 Jun 16 09:04	13° \mathbb{D} 17'28	
max. Earth dist.	11352 Jan 26 12:38	12° \mathbb{X} 05'59 6.43966 AU	max. Earth dist.	11357 Jun 27 18:12	15° \mathbb{D} 59'24	6.05210 AU
morning rise	11352 Feb 08 01:27	14° \mathbb{X} 47'58				
	11352 Feb 08 23:56	15° \mathbb{X}	conjunction	11357 Jun 29 07:25	16° \mathbb{D} 21'33	-0°40'54
	11352 May 06 05:44	0° \mathbb{H}	minimum elong	11357 Jun 29 07:25	16° \mathbb{D} 21'33	0°41'35
retrograde	11352 Jun 08 11:08	1° \mathbb{H} 40'16	morning rise	11357 Jul 12 06:33	19° \mathbb{D} 26'23	
	11352 Jul 11 14:19	30° \mathbb{R} \mathbb{X}		11357 Aug 28 19:33	0° \mathbb{Q}	
opposition	11352 Aug 08 07:42	26° \mathbb{X} 43'22 0°47'00	retrograde	11357 Nov 18 15:46	9° \mathbb{Q} 17'49	
min. Earth dist.	11352 Aug 08 06:55	26° \mathbb{X} 43'37 4.48240 AU	opposition	11358 Jan 17 10:55	4° \mathbb{Q} 21'10	-0°59'14
direct	11352 Oct 09 08:40	21° \mathbb{X} 42'10	min. Earth dist.	11358 Jan 18 03:01	4° \mathbb{Q} 15'51	3.98090 AU
	11352 Dec 29 01:28	0° \mathbb{H}		11358 Feb 27 00:28	30° \mathbb{R} \mathbb{D}	
evening set	11353 Feb 11 11:52	8° \mathbb{H} 50'54	direct	11358 Mar 17 16:42	29° \mathbb{D} 25'18	
				11358 Apr 05 06:47	0° \mathbb{Q}	

	11358 Jul 04 07:51	15°♏	direct	11363 Sep 13 09:03	25°♄52'39	
evening set	11358 Jul 22 09:07	19°♏18'14		11363 Nov 06 11:13	0°♊	
			evening set	11364 Jan 16 21:36	13°♊21'50	
conjunction	11358 Aug 04 13:16	22°♏30'39 -0°33'42		11364 Jan 24 12:22	15°♊	
minimum elong	11358 Aug 04 13:17	22°♏30'39 0°34'11				
max. Earth dist.	11358 Aug 04 08:04	22°♏27'29 5.92992 AU	conjunction	11364 Jan 30 03:27	16°♊12'49 0°36'30	
morning rise	11358 Aug 17 19:17	25°♏44'15	minimum elong	11364 Jan 30 03:28	16°♊12'49 0°37'02	
	11358 Sep 04 15:47	0°♐	max. Earth dist.	11364 Jan 30 14:49	16°♊18'56 6.44891 AU	
retrograde	11358 Dec 27 11:09	16°♐28'39	morning rise	11364 Feb 12 07:46	19°♊02'52	
opposition	11359 Feb 24 20:31	11°♐28'54 -0°37'03		11364 Apr 08 14:15	0°♐	
min. Earth dist.	11359 Feb 24 10:46	11°♐32'10 3.90405 AU	retrograde	11364 Jun 12 13:42	5°♐52'13	
direct	11359 Apr 24 00:54	6°♐34'02	opposition	11364 Aug 12 10:38	0°♐55'38 0°44'13	
evening set	11359 Aug 29 04:08	26°♐45'21	min. Earth dist.	11364 Aug 12 12:15	0°♐55'06 4.48692 AU	
				11364 Aug 19 15:24	30°♐	
conjunction	11359 Sep 11 14:37	0°♑02'00 -0°12'49	direct	11364 Oct 13 13:19	25°♑54'23	
minimum elong	11359 Sep 11 14:38	0°♑02'00 0°12'53		11364 Dec 07 03:04	0°♐	
behind sun begin	11359 Sep 11 09:32	29°♐58'54	evening set	11365 Feb 15 16:30	13°♐02'38	
behind sun end	11359 Sep 11 19:45	0°♑05'06				
	11359 Sep 11 11:21	0°♑	conjunction	11365 Feb 28 17:57	15°♐49'46 0°22'18	
max. Earth dist.	11359 Sep 12 21:41	0°♑20'57 5.90633 AU	minimum elong	11365 Feb 28 17:58	15°♐49'47 0°22'32	
morning rise	11359 Sep 25 03:32	3°♑19'49	max. Earth dist.	11365 Feb 28 01:28	15°♐40'58 6.50403 AU	
retrograde	11360 Feb 03 19:11	24°♑05'33	morning rise	11365 Mar 13 17:17	18°♐35'56	
asc. node	11360 Mar 26 14:10	20°♑04'05		11365 May 12 08:54	0°♑	
min. Earth dist.	11360 Apr 01 21:09	19°♑13'12 3.93724 AU	retrograde	11365 Jul 12 05:26	5°♑10'50	
opposition	11360 Apr 03 03:57	19°♑02'45 0°00'46	opposition	11365 Sep 11 07:22	0°♑16'32 0°18'39	
direct	11360 May 31 04:02	14°♑07'00	min. Earth dist.	11365 Sep 12 03:41	0°♑10'02 4.49951 AU	
	11360 Sep 18 08:27	0°♌		11365 Sep 13 11:01	30°♐	
evening set	11360 Oct 05 06:22	3°♌57'42	direct	11365 Nov 12 21:31	25°♐15'24	
				11366 Jan 11 01:52	0°♑	
conjunction	11360 Oct 18 20:49	7°♌12'01 0°13'08	evening set	11366 Mar 17 20:24	12°♑25'35	
minimum elong	11360 Oct 18 20:49	7°♌12'01 0°13'31	max. Earth dist.	11366 Mar 29 00:49	14°♑50'07 6.47282 AU	
behind sun begin	11360 Oct 18 16:16	7°♌09'18				
behind sun end	11360 Oct 19 01:22	7°♌14'43	conjunction	11366 Mar 30 18:01	15°♑12'23 0°02'23	
max. Earth dist.	11360 Oct 21 05:23	7°♌45'44 5.99231 AU	minimum elong	11366 Mar 30 18:02	15°♑12'24 0°02'16	
morning rise	11360 Nov 01 12:42	10°♌26'51	behind sun begin	11366 Mar 30 10:03	15°♑08'06	
	11360 Nov 21 03:44	15°♌	behind sun end	11366 Mar 31 02:01	15°♑16'41	
	11361 Feb 24 07:10	0°♌	morning rise	11366 Apr 12 14:00	17°♑58'30	
retrograde	11361 Mar 11 01:33	0°♌21'34	desc. node	11366 May 13 23:23	24°♑28'42	
	11361 Mar 25 16:33	30°♌		11366 Jun 14 08:14	0°♌	
min. Earth dist.	11361 May 08 01:21	25°♌30'35 4.06572 AU	retrograde	11366 Aug 11 19:46	4°♌49'42	
opposition	11361 May 09 15:30	25°♌17'39 0°36'45	opposition	11366 Oct 11 20:25	29°♑56'25 -0°12'05	
direct	11361 Jul 07 08:47	20°♌19'53		11366 Oct 11 09:13	30°♑	
	11361 Sep 28 18:50	0°♌	min. Earth dist.	11366 Oct 13 07:21	29°♑45'15 4.42645 AU	
evening set	11361 Nov 11 01:00	9°♌22'52	direct	11366 Dec 13 07:41	24°♑55'44	
				11367 Feb 12 01:48	0°♌	
conjunction	11361 Nov 24 14:54	12°♌29'39 0°33'06	evening set	11367 Apr 17 08:51	12°♌30'42	
minimum elong	11361 Nov 24 14:53	12°♌29'38 0°33'45	max. Earth dist.	11367 Apr 27 22:16	14°♌50'45 6.36234 AU	
max. Earth dist.	11361 Nov 27 00:33	13°♌02'43 6.15013 AU		11367 Apr 28 14:57	15°♌	
morning rise	11361 Dec 08 05:14	15°♌36'15				
	11362 Feb 18 22:52	0°♌	conjunction	11367 Apr 30 04:29	15°♌20'50 -0°18'41	
retrograde	11362 Apr 13 11:25	4°♌16'38	minimum elong	11367 Apr 30 04:28	15°♌20'49 0°19'08	
	11362 Jun 06 19:37	30°♌	morning rise	11367 May 12 22:48	18°♌10'36	
min. Earth dist.	11362 Jun 11 04:02	29°♌25'11 4.23669 AU		11367 Jul 11 02:52	0°♌	
opposition	11362 Jun 12 13:12	29°♌14'05 0°57'16	retrograde	11367 Sep 13 05:47	5°♌47'34	
direct	11362 Aug 11 10:20	24°♌14'24	opposition	11367 Nov 13 00:57	0°♌54'08 -0°41'02	
	11362 Oct 14 03:16	0°♌	min. Earth dist.	11367 Nov 14 16:03	0°♌41'34 4.28480 AU	
evening set	11362 Dec 15 13:44	12°♌24'40		11367 Nov 20 02:14	30°♌	
			direct	11368 Jan 13 16:40	25°♌54'39	
conjunction	11362 Dec 29 00:12	15°♌22'39 0°41'01		11368 Mar 06 20:54	0°♌	
minimum elong	11362 Dec 29 00:11	15°♌22'39 0°41'42	evening set	11368 May 18 05:28	14°♌13'49	
max. Earth dist.	11362 Dec 30 15:28	15°♌44'22 6.31997 AU	max. Earth dist.	11368 May 28 20:16	16°♌39'58 6.19972 AU	
morning rise	11363 Jan 11 09:48	18°♌19'56				
	11363 Mar 11 04:24	0°♌	conjunction	11368 May 31 01:08	17°♌10'25 -0°35'07	
retrograde	11363 May 14 17:07	5°♌53'04	minimum elong	11368 May 31 01:07	17°♌10'25 0°35'47	
min. Earth dist.	11363 Jul 13 11:38	0°♌59'08 4.39171 AU	morning rise	11368 Jun 12 20:35	20°♌07'15	
opposition	11363 Jul 14 04:56	0°♌53'27 0°58'47		11368 Jul 28 17:05	0°♌	
	11363 Jul 21 00:18	30°♌	retrograde	11368 Oct 17 08:08	8°♌53'18	

opposition	11368 Dec 16 14:43	3°☾58'37	-0°59'17			11374 Jul 21 02:21	30°☿♊	
min. Earth dist.	11368 Dec 17 23:28	3°☾47'57	4.11233 AU	direct		11374 Aug 16 04:06	28°♊55'10	
	11369 Jan 21 03:46	30°☿♊				11374 Sep 11 11:32	0°♊	
direct	11369 Feb 15 01:17	29°♊01'00		evening set		11374 Dec 20 04:38	16°♊58'55	
	11369 Mar 11 20:12	0°☾						
evening set	11369 Jun 21 04:19	18°☾13'57		conjunction		11375 Jan 02 14:31	19°♊55'47	0°41'05
max. Earth dist.	11369 Jul 02 16:46	20°☾58'34	6.03223 AU	minimum elong		11375 Jan 02 14:31	19°♊55'47	0°41'46
				max. Earth dist.		11375 Jan 04 03:39	20°♊16'13	6.34138 AU
conjunction	11369 Jul 04 03:19	21°☾19'12	-0°40'48	morning rise		11375 Jan 15 23:24	22°♊51'54	
minimum elong	11369 Jul 04 03:19	21°☾19'12	0°41'29			11375 Feb 19 01:12	0°♊	
morning rise	11369 Jul 17 03:16	24°☾25'18		retrograde		11375 May 18 20:57	10°♊17'11	
	11369 Aug 10 03:25	0°♊		opposition		11375 Jul 18 11:30	5°♊17'56	0°57'36
retrograde	11369 Nov 23 21:07	14°♊25'41		min. Earth dist.		11375 Jul 17 19:30	5°♊23'12	4.41049 AU
opposition	11370 Jan 22 15:17	9°♊28'42	-0°57'30	direct		11375 Sep 17 18:32	0°♊17'05	
min. Earth dist.	11370 Jan 23 03:40	9°♊24'36	3.96526 AU			11376 Jan 08 12:21	15°♊	
direct	11370 Mar 22 16:04	4°♊33'04		evening set		11376 Jan 21 06:01	17°♊41'25	
	11370 Jun 16 04:39	15°♊						
evening set	11370 Jul 27 11:24	24°♊30'40		conjunction		11376 Feb 03 11:11	20°♊31'32	0°35'02
				minimum elong		11376 Feb 03 11:12	20°♊31'32	0°35'31
conjunction	11370 Aug 09 16:21	27°♊43'58	-0°31'29	max. Earth dist.		11376 Feb 03 19:20	20°♊35'55	6.46395 AU
minimum elong	11370 Aug 09 16:23	27°♊43'59	0°31'55	morning rise		11376 Feb 16 14:39	23°♊20'42	
max. Earth dist.	11370 Aug 09 15:15	27°♊43'18	5.92003 AU			11376 Mar 20 01:06	0°♊	
	11370 Aug 18 23:09	0°♊		retrograde		11376 Jun 16 15:51	10°♊05'15	
morning rise	11370 Aug 22 23:27	0°♊58'32		opposition		11376 Aug 16 13:43	5°♊09'02	0°41'14
retrograde	11371 Jan 01 18:38	21°♊46'53		min. Earth dist.		11376 Aug 16 18:11	5°♊07'35	4.49725 AU
opposition	11371 Mar 02 03:35	16°♊46'40	-0°32'24	direct		11376 Oct 17 20:02	0°♊07'47	
min. Earth dist.	11371 Mar 01 14:47	16°♊50'59	3.90106 AU	evening set		11377 Feb 19 20:31	17°♊13'38	
direct	11371 Apr 29 06:17	11°♊51'47						
	11371 Aug 25 21:42	0°♊		conjunction		11377 Mar 04 21:13	20°♊00'19	0°19'49
evening set	11371 Sep 03 09:52	2°♊03'04		minimum elong		11377 Mar 04 21:14	20°♊00'19	0°20'01
				max. Earth dist.		11377 Mar 04 00:01	19°♊49'00	6.50881 AU
conjunction	11371 Sep 16 21:18	5°♊19'55	-0°09'17	morning rise		11377 Mar 17 20:04	22°♊46'06	
minimum elong	11371 Sep 16 21:19	5°♊19'55	0°09'17			11377 Apr 22 10:59	0°♊	
behind sun begin	11371 Sep 16 14:18	5°♊15'40		retrograde		11377 Jul 16 07:46	9°♊20'04	
behind sun end	11371 Sep 17 04:19	5°♊24'11		opposition		11377 Sep 15 10:03	4°♊25'54	0°14'40
max. Earth dist.	11371 Sep 18 10:01	5°♊42'18	5.91067 AU	min. Earth dist.		11377 Sep 16 08:53	4°♊18'35	4.49842 AU
morning rise	11371 Sep 30 10:46	8°♊37'48				11377 Oct 28 05:19	30°♊♋	
asc. node	11372 Feb 06 11:05	29°♊19'20		direct		11377 Nov 17 01:11	29°♊24'42	
retrograde	11372 Feb 09 00:06	29°♊19'59				11377 Dec 07 00:31	0°♊	
min. Earth dist.	11372 Apr 06 23:44	24°♊27'49	3.94838 AU	evening set		11378 Mar 21 22:42	16°♊35'33	
opposition	11372 Apr 08 07:43	24°♊16'58	0°06'16	desc. node		11378 Mar 24 14:27	17°♊09'48	
direct	11372 Jun 05 09:09	19°♊21'03		max. Earth dist.		11378 Apr 02 01:13	18°♊59'16	6.46579 AU
	11372 Aug 31 01:09	0°♊						
evening set	11372 Oct 10 10:46	9°♊07'11		conjunction		11378 Apr 03 20:02	19°♊22'27	-0°00'33
				minimum elong		11378 Apr 03 20:03	19°♊22'27	0°00'44
conjunction	11372 Oct 24 01:20	12°♊20'47	0°16'28	behind sun begin		11378 Apr 03 12:04	19°♊18'09	
minimum elong	11372 Oct 24 01:19	12°♊20'47	0°16'52	behind sun end		11378 Apr 04 04:02	19°♊26'45	
max. Earth dist.	11372 Oct 26 11:13	12°♊55'08	6.00893 AU	morning rise		11378 Apr 16 15:27	22°♊08'39	
	11372 Nov 04 06:13	15°♊				11378 May 24 23:48	0°♊	
morning rise	11372 Nov 06 17:25	15°♊34'51		retrograde		11378 Aug 16 00:24	9°♊03'10	
	11373 Jan 14 23:15	0°♊		opposition		11378 Oct 16 01:52	4°♊09'52	-0°16'12
retrograde	11373 Mar 15 19:53	5°♊20'51		min. Earth dist.		11378 Oct 17 13:44	3°♊58'25	4.41367 AU
min. Earth dist.	11373 May 12 20:38	0°♊30'15	4.08613 AU			11378 Nov 23 18:01	30°♊♌	
opposition	11373 May 14 11:44	0°♊17'01	0°40'42	direct		11378 Dec 17 11:07	29°♊09'16	
	11373 May 16 14:02	30°♊♌				11379 Jan 10 07:13	0°♊	
direct	11373 Jul 12 06:57	25°♊19'00				11379 Apr 13 07:53	15°♊	
	11373 Sep 06 00:06	0°♊		evening set		11379 Apr 21 13:25	16°♊48'13	
evening set	11373 Nov 15 23:29	14°♊15'25		max. Earth dist.		11379 May 02 00:43	19°♊07'41	6.34448 AU
conjunction	11373 Nov 29 13:04	17°♊21'03	0°34'58	conjunction		11379 May 04 08:44	19°♊38'54	-0°21'15
minimum elong	11373 Nov 29 13:03	17°♊21'03	0°35'38	minimum elong		11379 May 04 08:43	19°♊38'54	0°21'44
max. Earth dist.	11373 Dec 01 20:49	17°♊52'53	6.17269 AU	morning rise		11379 May 17 03:04	22°♊29'21	
morning rise	11373 Dec 13 02:53	20°♊26'26				11379 Jun 21 11:01	0°♊	
	11374 Jan 27 01:30	0°♊		retrograde		11379 Sep 17 19:43	10°♊13'57	
retrograde	11374 Apr 17 23:37	8°♊57'10		opposition		11379 Nov 17 12:36	5°♊20'21	-0°44'15
min. Earth dist.	11374 Jun 15 19:03	4°♊05'20	4.25944 AU	min. Earth dist.		11379 Nov 19 04:56	5°♊07'22	4.26264 AU
opposition	11374 Jun 17 02:00	3°♊54'59	0°58'36	direct		11380 Jan 18 02:09	0°♊20'56	

evening set	11380 May 22 15:32	18° Π 47'08		conjunction	11385 Dec 04 12:41	22° X 14'54	0°36'36
max. Earth dist.	11380 Jun 02 06:58	21° Π 14'26	6.17498 AU	minimum elong	11385 Dec 04 12:40	22° X 14'54	0°37'16
				max. Earth dist.	11385 Dec 06 20:32	22° X 46'36	6.19751 AU
conjunction	11380 Jun 04 11:34	21° Π 44'53	-0°36'36	morning rise	11385 Dec 18 01:49	25° X 18'54	
minimum elong	11380 Jun 04 11:34	21° Π 44'52	0°37'17		11386 Jan 08 08:18	0° Z	
morning rise	11380 Jun 17 07:26	24° Π 42'56		retrograde	11386 Apr 22 10:15	13° Z 38'57	
	11380 Jul 10 18:09	0° D		min. Earth dist.	11386 Jun 20 09:07	8° Z 47'12	4.28427 AU
retrograde	11380 Oct 22 05:20	13° D 39'46		opposition	11386 Jun 21 15:31	8° Z 37'05	0°59'30
opposition	11380 Dec 21 10:51	8° D 44'50	-1°00'22	direct	11386 Aug 20 21:08	3° Z 37'04	
min. Earth dist.	11380 Dec 22 17:29	8° D 34'50	4.08693 AU	evening set	11386 Dec 24 20:22	21° Z 33'38	
direct	11381 Feb 19 15:39	3° D 47'26					
evening set	11381 Jun 25 22:51	23° D 08'43		conjunction	11387 Jan 07 05:27	24° Z 29'16	0°40'52
				minimum elong	11387 Jan 07 05:27	24° Z 29'17	0°41'33
conjunction	11381 Jul 08 22:30	26° D 15'22	-0°40'27	max. Earth dist.	11387 Jan 08 13:54	24° Z 47'03	6.36407 AU
minimum elong	11381 Jul 08 22:30	26° D 15'22	0°41'06	morning rise	11387 Jan 20 13:35	27° Z 24'09	
max. Earth dist.	11381 Jul 07 14:48	25° D 56'20	6.00843 AU		11387 Feb 01 15:29	0° \approx	
morning rise	11381 Jul 21 23:27	29° D 22'58		retrograde	11387 May 23 03:25	14° \approx 41'20	
	11381 Jul 24 13:36	0° Ω		opposition	11387 Jul 22 18:39	9° \approx 42'32	0°56'03
	11381 Oct 05 02:56	15° Ω		min. Earth dist.	11387 Jul 22 06:14	9° \approx 46'36	4.42926 AU
retrograde	11381 Nov 29 04:18	19° Ω 34'07		direct	11387 Sep 22 07:01	4° \approx 41'34	
	11382 Jan 24 21:44	15° R Ω			11387 Dec 22 06:30	15° \approx	
opposition	11382 Jan 27 19:53	14° Ω 36'42	-0°55'25	evening set	11388 Jan 25 14:42	22° \approx 01'16	
min. Earth dist.	11382 Jan 28 05:31	14° Ω 33'30	3.94534 AU				
direct	11382 Mar 27 17:00	9° Ω 41'12		conjunction	11388 Feb 07 19:15	24° \approx 50'37	0°33'19
	11382 May 25 03:41	15° Ω		minimum elong	11388 Feb 07 19:16	24° \approx 50'37	0°33'47
evening set	11382 Aug 01 14:35	29° Ω 45'10		max. Earth dist.	11388 Feb 07 23:31	24° \approx 52'54	6.47731 AU
	11382 Aug 02 14:58	0° P		morning rise	11388 Feb 20 21:58	27° \approx 39'00	
conjunction	11382 Aug 14 20:46	2° P 59'39	-0°29'04		11388 Mar 03 01:22	0° H	
minimum elong	11382 Aug 14 20:47	2° P 59'40	0°29'26	retrograde	11388 Jun 20 17:48	14° H 19'42	
max. Earth dist.	11382 Aug 15 01:57	3° P 02'50	5.90626 AU	opposition	11388 Aug 20 17:48	9° H 23'48	0°37'56
morning rise	11382 Aug 28 04:51	6° P 15'22		min. Earth dist.	11388 Aug 21 00:25	9° H 21'40	4.50455 AU
retrograde	11383 Jan 07 05:17	27° P 08'51		direct	11388 Oct 22 01:30	4° H 22'32	
opposition	11383 Mar 07 12:05	22° P 08'13	-0°27'30	evening set	11389 Feb 24 01:32	21° H 27'12	
min. Earth dist.	11383 Mar 06 20:25	22° P 13'30	3.89524 AU	max. Earth dist.	11389 Mar 08 01:38	24° H 00'45	6.50953 AU
direct	11383 May 04 12:28	17° P 13'20		conjunction	11389 Mar 09 01:43	24° H 13'38	0°17'09
	11383 Aug 08 02:38	0° A		minimum elong	11389 Mar 09 01:44	24° H 13'38	0°17'18
evening set	11383 Sep 08 18:20	7° A 25'38		morning rise	11389 Mar 21 23:51	26° H 59'09	
conjunction	11383 Sep 22 06:27	10° A 42'43	-0°05'40		11389 Apr 05 08:39	0° Y	
minimum elong	11383 Sep 22 06:27	10° A 42'43	0°05'36	retrograde	11389 Jul 20 12:22	13° Y 33'49	
behind sun begin	11383 Sep 21 22:25	10° A 37'50		opposition	11389 Sep 19 14:55	8° Y 39'55	0°10'26
behind sun end	11383 Sep 22 14:29	10° A 47'35		min. Earth dist.	11389 Sep 20 16:24	8° Y 31'46	4.49252 AU
max. Earth dist.	11383 Sep 23 23:01	11° A 07'24	5.91327 AU	direct	11389 Nov 21 06:51	3° Y 38'49	
morning rise	11383 Oct 05 20:49	14° A 00'49		desc. node	11390 Jan 30 13:18	10° Y 08'58	
asc. node	11383 Dec 18 10:38	29° A 35'23		evening set	11390 Mar 26 03:53	20° Y 52'04	
	11383 Dec 21 00:43	0° M		max. Earth dist.	11390 Apr 06 01:38	23° Y 13'42	6.45352 AU
retrograde	11384 Feb 14 04:40	4° M 39'30		conjunction	11390 Apr 08 00:42	23° Y 39'16	-0°03'36
	11384 Apr 10 15:08	30° R A		minimum elong	11390 Apr 08 00:41	23° Y 39'15	0°03'50
min. Earth dist.	11384 Apr 12 02:11	29° A 48'06	3.95914 AU	behind sun begin	11390 Apr 07 16:47	23° Y 35'00	
opposition	11384 Apr 13 13:20	29° A 36'09	0°11'43	behind sun end	11390 Apr 08 08:35	23° Y 43'31	
direct	11384 Jun 10 15:04	24° A 39'57		morning rise	11390 Apr 20 19:57	26° Y 25'50	
	11384 Aug 08 09:18	0° M			11390 May 07 14:29	0° B	
evening set	11384 Oct 15 17:37	14° M 21'27		retrograde	11390 Aug 20 11:31	13° B 25'39	
	11384 Oct 18 11:07	15° M		opposition	11390 Oct 20 11:16	8° B 32'24	-0°20'30
conjunction	11384 Oct 29 08:20	17° M 34'17	0°19'40	min. Earth dist.	11390 Oct 22 00:51	8° B 20'22	4.39567 AU
minimum elong	11384 Oct 29 08:19	17° M 34'17	0°20'08	direct	11390 Dec 21 18:57	3° B 31'53	
max. Earth dist.	11384 Oct 31 19:34	18° M 09'18	6.02665 AU		11391 Mar 27 14:20	15° B	
morning rise	11384 Nov 12 00:23	20° M 47'28		evening set	11391 Apr 25 22:04	21° B 16'41	
	11384 Dec 23 11:20	0° X		max. Earth dist.	11391 May 06 09:23	23° B 36'50	6.32201 AU
retrograde	11385 Mar 20 17:10	10° X 23'58		conjunction	11391 May 08 17:30	24° B 08'15	-0°23'52
min. Earth dist.	11385 May 17 19:35	5° X 33'08	4.10849 AU	minimum elong	11391 May 08 17:29	24° B 08'14	0°24'24
opposition	11385 May 19 10:01	5° X 20'07	0°44'21	morning rise	11391 May 21 11:45	26° B 59'36	
direct	11385 Jul 17 09:57	0° X 21'46			11391 Jun 04 03:07	0° II	
evening set	11385 Nov 20 23:25	19° X 10'32		retrograde	11391 Sep 22 13:36	14° II 53'36	
				opposition	11391 Nov 22 05:47	9° II 59'55	-0°47'27

min. Earth dist.	11391 Nov 23 21:26	9° Π 47'09	4.23720 AU	evening set	11397 Nov 25 20:28	23° X 58'59	
direct	11392 Jan 22 14:21	5° Π 00'48					
evening set	11392 May 27 07:16	23° Π 35'09		conjunction	11397 Dec 09 09:03	27° X 01'52	0°37'56
max. Earth dist.	11392 Jun 07 00:09	26° Π 04'13	6.14853 AU	minimum elong	11397 Dec 09 09:02	27° X 01'52	0°38'38
				max. Earth dist.	11397 Dec 11 13:02	27° X 31'12	6.22525 AU
conjunction	11392 Jun 09 03:30	26° Π 34'09	-0°37'56	morning rise	11397 Dec 22 21:38	0° Z 04'22	
minimum elong	11392 Jun 09 03:30	26° Π 34'08	0°38'38		11397 Dec 22 13:49	0° Z	
morning rise	11392 Jun 22 00:00	29° Π 33'34		retrograde	11398 Apr 26 19:12	18° Z 13'23	
	11392 Jun 23 21:41	0° Z		min. Earth dist.	11398 Jun 24 22:38	13° Z 20'58	4.31000 AU
retrograde	11392 Oct 27 10:36	18° Z 42'09		opposition	11398 Jun 26 02:04	13° Z 11'51	0°59'59
opposition	11392 Dec 26 13:30	13° Z 46'57	-1°01'04	direct	11398 Aug 25 13:37	8° Z 11'35	
min. Earth dist.	11392 Dec 27 18:08	13° Z 37'35	4.06159 AU	evening set	11398 Dec 29 08:23	26° Z 00'56	
direct	11393 Feb 24 14:22	8° Z 49'49					
evening set	11393 Jun 30 23:24	28° Z 19'17		conjunction	11399 Jan 11 16:58	28° Z 55'26	0°40'26
	11393 Jul 07 23:08	0° Ω		minimum elong	11399 Jan 11 16:59	28° Z 55'27	0°41'04
max. Earth dist.	11393 Jul 12 21:44	1° Ω 11'29	5.98683 AU	max. Earth dist.	11399 Jan 12 22:45	29° Z 11'41	6.38590 AU
					11399 Jan 16 15:21	0° \approx	
conjunction	11393 Jul 14 00:03	1° Ω 27'21	-0°39'45	morning rise	11399 Jan 25 00:11	1° \approx 49'05	
minimum elong	11393 Jul 14 00:03	1° Ω 27'22	0°40'24		11399 Apr 04 21:32	15° \approx	
morning rise	11393 Jul 27 01:50	4° Ω 36'23		retrograde	11399 May 27 05:15	18° \approx 58'55	
	11393 Sep 11 01:00	15° Ω			11399 Jul 19 07:53	15° R \approx	
retrograde	11393 Dec 04 16:56	24° Ω 57'02		opposition	11399 Jul 26 23:08	14° \approx 00'33	0°54'14
opposition	11394 Feb 02 05:55	19° Ω 59'16	-0°52'42	min. Earth dist.	11399 Jul 26 12:46	14° \approx 03'56	4.44580 AU
min. Earth dist.	11394 Feb 02 12:08	19° Ω 57'12	3.93011 AU	direct	11399 Sep 26 14:17	8° \approx 59'31	
direct	11394 Apr 01 22:13	15° Ω 04'02			11399 Dec 02 13:46	15° \approx	
	11394 Jul 16 04:03	0° P		evening set	11400 Jan 29 20:55	26° \approx 15'20	
evening set	11394 Aug 06 22:51	5° P 12'18					
				conjunction	11400 Feb 12 00:41	29° \approx 04'02	0°31'28
conjunction	11394 Aug 20 05:51	8° P 27'37	-0°26'16	minimum elong	11400 Feb 12 00:42	29° \approx 04'02	0°31'54
minimum elong	11394 Aug 20 05:52	8° P 27'37	0°26'36	max. Earth dist.	11400 Feb 11 23:33	29° \approx 03'25	6.48744 AU
max. Earth dist.	11394 Aug 20 15:35	8° P 33'34	5.89903 AU		11400 Feb 16 09:14	0° H	
morning rise	11394 Sep 02 15:11	11° P 44'12		morning rise	11400 Feb 25 02:47	1° H 51'47	
	11394 Dec 02 17:59	0° A		retrograde	11400 Jun 25 20:34	18° H 29'46	
retrograde	11395 Jan 12 16:07	2° A 39'33		opposition	11400 Aug 25 20:22	13° H 34'14	0°34'31
	11395 Feb 22 18:53	30° R P		min. Earth dist.	11400 Aug 26 06:57	13° H 30'50	4.50776 AU
opposition	11395 Mar 12 23:25	27° P 38'27	-0°22'12	direct	11400 Oct 27 07:17	8° H 32'56	
min. Earth dist.	11395 Mar 12 03:10	27° P 45'18	3.89728 AU	evening set	11401 Mar 01 05:14	25° H 37'36	
direct	11395 May 09 22:11	22° P 43'29		max. Earth dist.	11401 Mar 13 00:15	28° H 08'39	6.50557 AU
	11395 Jul 18 01:04	0° A					
evening set	11395 Sep 14 04:36	12° A 53'29		conjunction	11401 Mar 14 04:57	28° H 24'00	0°14'26
				minimum elong	11401 Mar 14 04:57	28° H 24'00	0°14'31
conjunction	11395 Sep 27 17:20	16° A 10'18	-0°01'55	behind sun begin	11401 Mar 14 01:28	28° H 22'09	
minimum elong	11395 Sep 27 17:21	16° A 10'18	0°01'47	behind sun end	11401 Mar 14 08:26	28° H 25'52	
behind sun begin	11395 Sep 27 08:58	16° A 05'14			11401 Mar 21 16:20	0° Y	
behind sun end	11395 Sep 28 01:44	16° A 15'22		morning rise	11401 Mar 27 02:41	1° Y 09'31	
max. Earth dist.	11395 Sep 29 14:32	16° A 37'44	5.92440 AU	retrograde	11401 Jul 25 16:50	17° Y 46'23	
morning rise	11395 Oct 11 08:09	19° A 28'03		opposition	11401 Sep 24 19:34	12° Y 52'36	0°06'10
asc. node	11395 Oct 26 23:06	23° A 10'39		min. Earth dist.	11401 Sep 25 22:49	12° Y 43'53	4.48177 AU
	11395 Nov 26 20:40	0° M		direct	11401 Nov 26 10:23	7° Y 51'31	
retrograde	11396 Feb 19 09:30	9° M 59'39		desc. node	11401 Dec 11 03:49	8° Y 10'53	
min. Earth dist.	11396 Apr 17 06:48	5° M 08'16	3.97787 AU	evening set	11402 Mar 31 08:51	25° Y 08'35	
opposition	11396 Apr 18 18:51	4° M 56'00	0°17'05	max. Earth dist.	11402 Apr 11 05:29	27° Y 30'07	6.43672 AU
	11396 Jun 13 18:25	30° R A					
direct	11396 Jun 15 23:43	29° A 59'29		conjunction	11402 Apr 13 05:31	27° Y 56'19	-0°06'34
	11396 Jun 18 05:02	0° M		minimum elong	11402 Apr 13 05:30	27° Y 56'19	0°06'50
	11396 Oct 01 04:07	15° M		behind sun begin	11402 Apr 12 22:05	27° Y 52'17	
evening set	11396 Oct 20 23:14	19° M 33'22		behind sun end	11402 Apr 13 12:56	28° Y 00'20	
					11402 Apr 22 16:26	0° B	
conjunction	11396 Nov 03 14:00	22° M 45'02	0°22'42	morning rise	11402 Apr 26 00:25	0° B 43'26	
minimum elong	11396 Nov 03 13:59	22° M 45'02	0°23'14		11402 Jul 13 01:33	15° B	
max. Earth dist.	11396 Nov 06 03:42	23° M 21'17	6.05101 AU	retrograde	11402 Aug 25 22:49	17° B 50'04	
morning rise	11396 Nov 17 05:44	25° M 56'54			11402 Oct 09 07:58	15° R B	
	11396 Dec 04 22:23	0° X		opposition	11402 Oct 25 21:56	12° B 56'51	-0°24'41
retrograde	11397 Mar 25 10:20	15° X 21'33		min. Earth dist.	11402 Oct 27 12:45	12° B 44'26	4.37382 AU
min. Earth dist.	11397 May 22 14:52	10° X 30'53	4.13582 AU	direct	11402 Dec 27 03:04	7° B 56'32	
opposition	11397 May 24 05:30	10° X 17'51	0°47'35		11403 Mar 09 11:59	15° B	
direct	11397 Jul 22 09:04	5° X 19'12		evening set	11403 May 01 08:16	25° B 48'17	

max. Earth dist.	11403 May 11 18:06	28° J 08'28	6.29670 AU	conjunction	11408 Nov 09 16:37	27° M 47'55	0°25'31
				minimum elong	11408 Nov 09 16:36	27° M 47'55	0°26'05
conjunction	11403 May 14 03:33	28° J 40'50	-0°26'20	max. Earth dist.	11408 Nov 12 04:42	28° M 23'00	6.07525 AU
minimum elong	11403 May 14 03:32	28° J 40'49	0°26'55		11408 Nov 19 03:14	0° J	
	11403 May 20 00:06	0° II		morning rise	11408 Nov 23 08:14	0° J 58'33	
morning rise	11403 May 26 22:08	1° II 33'18		retrograde	11409 Mar 31 01:15	20° J 12'11	
retrograde	11403 Sep 28 11:09	19° II 37'46		min. Earth dist.	11409 May 28 09:10	15° J 21'15	4.16122 AU
opposition	11403 Nov 28 01:13	14° II 43'56	-0°50'22	opposition	11409 May 29 22:27	15° J 08'41	0°50'27
min. Earth dist.	11403 Nov 29 15:53	14° II 31'26	4.21018 AU	direct	11409 Jul 28 06:53	10° J 09'46	
direct	11404 Jan 28 05:58	9° II 45'04		evening set	11409 Dec 01 15:04	28° J 41'48	
evening set	11404 Jun 02 01:09	28° II 28'00			11409 Dec 07 10:54	0° Z	
	11404 Jun 08 15:04	0° Z					
max. Earth dist.	11404 Jun 12 22:26	1° Z 00'29	6.12229 AU	conjunction	11409 Dec 15 03:19	1° Z 43'28	0°39'02
				minimum elong	11409 Dec 15 03:18	1° Z 43'27	0°39'45
conjunction	11404 Jun 14 22:00	1° Z 28'21	-0°39'02	max. Earth dist.	11409 Dec 17 05:42	2° Z 11'45	6.24979 AU
minimum elong	11404 Jun 14 22:00	1° Z 28'20	0°39'44	morning rise	11409 Dec 28 15:03	4° Z 44'35	
morning rise	11404 Jun 27 18:57	4° Z 29'09		retrograde	11410 May 02 03:00	22° Z 44'11	
retrograde	11404 Nov 02 18:14	23° Z 49'05		min. Earth dist.	11410 Jun 30 09:38	17° Z 51'35	4.33178 AU
opposition	11405 Jan 01 18:19	18° Z 53'39	-1°01'18	opposition	11410 Jul 01 11:08	17° Z 43'09	1°00'10
min. Earth dist.	11405 Jan 02 20:17	18° Z 45'08	4.03864 AU	direct	11410 Aug 31 02:37	12° Z 42'46	
direct	11405 Mar 02 13:55	13° Z 56'54			11411 Jan 01 18:37	0° \approx	
	11405 Jun 22 01:54	0° Ω		evening set	11411 Jan 03 19:54	0° \approx 26'34	
evening set	11405 Jul 07 01:50	3° Ω 33'22					
max. Earth dist.	11405 Jul 19 04:42	6° Ω 29'01	5.96932 AU	conjunction	11411 Jan 17 03:40	3° \approx 20'07	0°39'46
				minimum elong	11411 Jan 17 03:41	3° \approx 20'07	0°40'24
conjunction	11405 Jul 20 03:08	6° Ω 42'36	-0°38'43	max. Earth dist.	11411 Jan 18 03:46	3° \approx 33'12	6.40325 AU
minimum elong	11405 Jul 20 03:09	6° Ω 42'36	0°39'19	morning rise	11411 Jan 30 10:19	6° \approx 12'50	
morning rise	11405 Aug 02 06:05	9° Ω 52'56			11411 Mar 14 17:13	15° \approx	
	11405 Aug 23 22:16	15° Ω		retrograde	11411 Jun 01 09:39	23° \approx 16'58	
	11405 Nov 26 13:04	0° P		opposition	11411 Aug 01 03:41	18° \approx 19'02	0°52'09
retrograde	11405 Dec 11 03:28	0° P 21'06		min. Earth dist.	11411 Jul 31 20:57	18° \approx 21'14	4.45783 AU
	11405 Dec 25 18:33	30° R Ω			11411 Aug 29 02:51	15° R \approx	
opposition	11406 Feb 08 16:33	25° Ω 22'50	-0°49'29	direct	11411 Oct 01 22:35	13° \approx 17'54	
min. Earth dist.	11406 Feb 08 17:53	25° Ω 22'23	3.92008 AU		11411 Nov 05 01:48	15° \approx	
direct	11406 Apr 08 04:48	20° Ω 27'46			11412 Feb 01 16:09	0° H	
	11406 Jun 27 22:09	0° P		evening set	11412 Feb 04 03:24	0° H 31'24	
evening set	11406 Aug 13 07:01	10° P 38'04					
				conjunction	11412 Feb 17 06:47	3° H 19'41	0°29'27
conjunction	11406 Aug 26 14:59	13° P 53'54	-0°23'15	minimum elong	11412 Feb 17 06:48	3° H 19'41	0°29'50
minimum elong	11406 Aug 26 15:00	13° P 53'55	0°23'31	max. Earth dist.	11412 Feb 17 02:32	3° H 17'24	6.49336 AU
max. Earth dist.	11406 Aug 27 07:18	14° P 03'54	5.89753 AU	morning rise	11412 Mar 01 08:08	6° H 06'58	
morning rise	11406 Sep 09 01:06	17° P 10'57		retrograde	11412 Jun 29 22:52	22° H 43'37	
	11406 Nov 05 07:40	0° $\underline{\Omega}$		opposition	11412 Aug 30 00:10	17° H 48'25	0°30'53
retrograde	11407 Jan 19 02:24	8° $\underline{\Omega}$ 05'36		min. Earth dist.	11412 Aug 30 12:27	17° H 44'28	4.50746 AU
min. Earth dist.	11407 Mar 18 10:33	3° $\underline{\Omega}$ 11'39	3.90434 AU	direct	11412 Oct 31 11:10	12° H 47'10	
opposition	11407 Mar 19 09:01	3° $\underline{\Omega}$ 04'03	-0°16'44	evening set	11413 Mar 05 10:24	29° H 52'51	
	11407 Apr 12 22:46	30° R P			11413 Mar 05 23:50	0° Y	
direct	11407 May 16 08:41	28° P 08'58		max. Earth dist.	11413 Mar 17 01:40	2° Y 22'11	6.49909 AU
	11407 Jun 18 14:04	0° $\underline{\Omega}$					
asc. node	11407 Sep 04 22:28	14° $\underline{\Omega}$ 32'20		conjunction	11413 Mar 18 09:33	2° Y 39'18	0°11'36
evening set	11407 Sep 20 12:57	18° $\underline{\Omega}$ 14'56		minimum elong	11413 Mar 18 09:34	2° Y 39'18	0°11'38
				behind sun begin	11413 Mar 18 03:53	2° Y 36'16	
conjunction	11407 Oct 04 02:16	21° $\underline{\Omega}$ 31'18	0°01'54	behind sun end	11413 Mar 18 15:14	2° Y 42'20	
minimum elong	11407 Oct 04 02:14	21° $\underline{\Omega}$ 31'17	0°02'06	morning rise	11413 Mar 31 06:51	5° Y 24'54	
behind sun begin	11407 Oct 03 17:51	21° $\underline{\Omega}$ 26'15		retrograde	11413 Jul 30 00:36	22° Y 04'44	
behind sun end	11407 Oct 04 10:37	21° $\underline{\Omega}$ 36'20		opposition	11413 Sep 29 02:25	17° Y 11'11	0°01'47
max. Earth dist.	11407 Oct 06 03:52	22° $\underline{\Omega}$ 01'17	5.93909 AU	min. Earth dist.	11413 Sep 30 08:25	17° Y 01'36	4.46959 AU
morning rise	11407 Oct 17 17:23	24° $\underline{\Omega}$ 48'28		desc. node	11413 Oct 21 03:18	14° Y 31'05	
	11407 Nov 08 20:23	0° M		direct	11413 Nov 30 17:34	12° Y 10'13	
	11408 Feb 14 14:54	15° M		evening set	11414 Apr 04 16:01	29° Y 31'26	
retrograde	11408 Feb 25 10:19	15° M 11'42			11414 Apr 06 20:37	0° Z	
	11408 Mar 07 04:45	15° R M		max. Earth dist.	11414 Apr 15 09:38	1° Z 51'55	6.41976 AU
min. Earth dist.	11408 Apr 23 07:24	10° M 20'43	3.99848 AU				
opposition	11408 Apr 24 21:02	10° M 07'57	0°22'13	conjunction	11414 Apr 17 12:21	2° Z 19'41	-0°09'34
direct	11408 Jun 22 03:30	5° M 11'12		minimum elong	11414 Apr 17 12:20	2° Z 19'40	0°09'53
	11408 Sep 13 11:44	15° M		behind sun begin	11414 Apr 17 05:50	2° Z 16'08	
evening set	11408 Oct 27 02:08	24° M 37'28		behind sun end	11414 Apr 17 18:50	2° Z 23'13	

morning rise	11414 Apr 30 07:10	5°♄07'24	retrograde	11420 Mar 01 04:20	20°♄08'08	
	11414 Jun 18 01:29	15°♄	min. Earth dist.	11420 Apr 28 03:14	15°♄17'07	4.01857 AU
retrograde	11414 Aug 30 12:09	22°♄20'50	opposition	11420 Apr 29 17:00	15°♄04'17	0°26'54
opposition	11414 Oct 30 10:43	17°♄27'36 -0°28'52		11420 Apr 30 05:38	15°♄	
min. Earth dist.	11414 Nov 01 01:15	17°♄15'15 4.35341 AU	direct	11420 Jun 27 02:46	10°♄07'12	
	11414 Nov 19 12:41	15°♄		11420 Aug 22 12:40	15°♄	
direct	11414 Dec 31 12:43	12°♄27'28	evening set	11420 Oct 31 23:03	29°♄26'29	
	11415 Feb 11 05:38	15°♄		11420 Nov 03 09:00	0°♄	
	11415 May 03 22:32	0°♄				
evening set	11415 May 05 20:08	0°♄25'31	conjunction	11420 Nov 14 13:34	2°♄35'54	0°28'02
max. Earth dist.	11415 May 16 08:25	2°♄47'46 6.27462 AU	minimum elong	11420 Nov 14 13:33	2°♄35'54	0°28'37
			max. Earth dist.	11420 Nov 17 01:36	3°♄10'47	6.09723 AU
conjunction	11415 May 18 15:33	3°♄18'59 -0°28'43	morning rise	11420 Nov 28 04:41	5°♄45'20	
minimum elong	11415 May 18 15:32	3°♄18'58 0°29'19	retrograde	11421 Apr 04 12:48	24°♄49'13	
morning rise	11415 May 31 10:07	6°♄12'22	min. Earth dist.	11421 Jun 01 22:33	19°♄58'00	4.18297 AU
retrograde	11415 Oct 03 09:49	24°♄26'01	opposition	11421 Jun 03 10:09	19°♄46'03	0°52'53
opposition	11415 Dec 02 22:04	19°♄32'04 -0°53'02	direct	11421 Aug 01 22:37	14°♄46'56	
min. Earth dist.	11415 Dec 04 11:45	19°♄19'53 4.18823 AU		11421 Nov 21 14:22	0°♄	
direct	11416 Feb 01 23:03	14°♄33'31	evening set	11421 Dec 06 05:19	3°♄12'48	
	11416 May 23 02:47	0°♄				
evening set	11416 Jun 06 19:33	3°♄22'55	conjunction	11421 Dec 19 16:58	6°♄13'25	0°39'52
max. Earth dist.	11416 Jun 17 19:01	5°♄57'26 6.10238 AU	minimum elong	11421 Dec 19 16:58	6°♄13'25	0°40'35
			max. Earth dist.	11421 Dec 21 15:18	6°♄39'18	6.26955 AU
conjunction	11416 Jun 19 16:38	6°♄24'15 -0°39'53	morning rise	11422 Jan 02 04:18	9°♄13'30	
minimum elong	11416 Jun 19 16:37	6°♄24'15 0°40'36	retrograde	11422 May 06 07:23	27°♄05'35	
morning rise	11416 Jul 02 14:17	9°♄26'11	opposition	11422 Jul 05 16:48	22°♄04'58	1°00'03
retrograde	11416 Nov 07 22:13	28°♄54'56	min. Earth dist.	11422 Jul 04 17:40	22°♄12'37	4.34831 AU
opposition	11417 Jan 06 22:10	23°♄59'06 -1°01'06	direct	11422 Sep 04 11:31	17°♄04'27	
min. Earth dist.	11417 Jan 07 20:14	23°♄51'50 4.02274 AU		11422 Dec 16 16:56	0°♄	
direct	11417 Mar 07 13:13	19°♄02'36	evening set	11423 Jan 08 04:13	4°♄44'26	
	11417 Jun 04 03:13	0°♄				
evening set	11417 Jul 12 02:30	8°♄43'16	conjunction	11423 Jan 21 11:37	7°♄37'18	0°38'57
			minimum elong	11423 Jan 21 11:37	7°♄37'19	0°39'33
conjunction	11417 Jul 25 04:38	11°♄53'19 -0°37'27	max. Earth dist.	11423 Jan 22 09:01	7°♄48'55	6.41565 AU
minimum elong	11417 Jul 25 04:38	11°♄53'20 0°38'01	morning rise	11423 Feb 03 17:27	10°♄29'16	
max. Earth dist.	11417 Jul 24 12:32	11°♄43'33 5.95912 AU		11423 Feb 25 03:39	15°♄	
morning rise	11417 Aug 07 08:16	15°♄04'28	retrograde	11423 Jun 05 11:42	27°♄29'22	
	11417 Aug 07 00:51	15°♄	opposition	11423 Aug 05 06:34	22°♄31'55	0°49'55
retrograde	11417 Oct 16 03:05	0°♄	min. Earth dist.	11423 Aug 05 01:56	22°♄33'26	4.46548 AU
opposition	11417 Dec 16 11:50	5°♄36'52	direct	11423 Oct 06 03:21	17°♄30'49	
min. Earth dist.	11418 Feb 13 23:23	0°♄38'08 -0°46'00		11424 Jan 16 14:38	0°♄	
	11418 Feb 13 22:16	0°♄38'30 3.91682 AU	evening set	11424 Feb 08 08:37	4°♄43'10	
	11418 Feb 18 17:40	30°♄				
direct	11418 Apr 13 10:39	25°♄43'07	conjunction	11424 Feb 21 11:16	7°♄31'07	0°27'20
	11418 Jun 04 05:55	0°♄	minimum elong	11424 Feb 21 11:17	7°♄31'07	0°27'40
evening set	11418 Aug 18 11:02	15°♄52'55	max. Earth dist.	11424 Feb 21 02:02	7°♄26'10	6.49582 AU
			morning rise	11424 Mar 05 12:13	10°♄18'08	
conjunction	11418 Aug 31 19:46	19°♄08'54 -0°20'11	retrograde	11424 Jul 04 03:00	26°♄54'24	
minimum elong	11418 Aug 31 19:47	19°♄08'55 0°20'23	opposition	11424 Sep 03 03:21	21°♄59'31	0°27'11
max. Earth dist.	11418 Sep 01 16:52	19°♄21'49 5.90145 AU	min. Earth dist.	11424 Sep 03 18:42	21°♄54'35	4.50479 AU
morning rise	11418 Sep 14 06:42	22°♄26'07	direct	11424 Nov 04 16:01	16°♄58'16	
	11418 Oct 16 11:53	0°♄		11425 Feb 18 00:46	0°♄	
retrograde	11419 Jan 24 05:24	13°♄17'38	evening set	11425 Mar 09 14:43	4°♄05'27	
min. Earth dist.	11419 Mar 23 11:14	8°♄24'17 3.91523 AU	max. Earth dist.	11425 Mar 21 03:40	6°♄33'49	6.49145 AU
opposition	11419 Mar 24 12:37	8°♄15'42 -0°11'24				
direct	11419 May 21 11:21	3°♄20'27	conjunction	11425 Mar 22 13:34	6°♄52'02	0°08'46
asc. node	11419 Jul 16 14:24	8°♄18'13	minimum elong	11425 Mar 22 13:35	6°♄52'02	0°08'45
evening set	11419 Sep 25 15:28	23°♄21'20	behind sun begin	11425 Mar 22 06:40	6°♄48'21	
			behind sun end	11425 Mar 22 20:29	6°♄55'44	
conjunction	11419 Oct 09 04:58	26°♄37'02 0°05'25	morning rise	11425 Apr 04 10:22	9°♄37'46	
minimum elong	11419 Oct 09 04:57	26°♄37'01 0°05'40	retrograde	11425 Aug 03 06:02	26°♄20'45	
behind sun begin	11419 Oct 08 20:55	26°♄32'12	desc. node	11425 Sep 01 21:17	25°♄01'21	
behind sun end	11419 Oct 09 12:58	26°♄41'49	opposition	11425 Oct 03 08:38	21°♄27'17	-0°02'34
max. Earth dist.	11419 Oct 11 07:07	27°♄07'13 5.95554 AU	min. Earth dist.	11425 Oct 15 05:02	21°♄17'34	4.45744 AU
morning rise	11419 Oct 22 20:30	29°♄53'30	direct	11425 Dec 04 21:44	16°♄26'26	
	11419 Oct 23 07:24	0°♄		11426 Mar 21 21:00	0°♄	
	11420 Jan 02 20:26	15°♄	evening set	11426 Apr 08 22:08	3°♄51'29	

max. Earth dist.	11426 Apr 19 15:08	6°8'12"09	6.40372 AU	behind sun end	11431 Oct 14 17:39	1°11'53"53	
				max. Earth dist.	11431 Oct 16 16:29	2°11'22"00	5.96908 AU
conjunction	11426 Apr 21 18:10	6°8'40"12	-0°12'28	morning rise	11431 Oct 28 02:16	5°11'05"35	
minimum elong	11426 Apr 21 18:10	6°8'40"12	0°12'51		11431 Dec 11 05:14	15°11'	
behind sun begin	11426 Apr 21 13:11	6°8'37"29		retrograde	11432 Mar 06 03:24	25°11'12"34	
behind sun end	11426 Apr 21 23:08	6°8'42"56		min. Earth dist.	11432 May 03 01:46	20°11'21"33	4.03688 AU
morning rise	11426 May 04 12:46	9°8'28"29		opposition	11432 May 04 15:40	20°11'08"42	0°31'30
	11426 May 30 11:49	15°8'		direct	11432 Jul 02 04:32	15°11'11"22	
retrograde	11426 Sep 04 01:47	26°8'48"23			11432 Oct 17 12:37	0°8'7"	
opposition	11426 Nov 03 22:46	21°8'55"08	-0°32'48	evening set	11432 Nov 05 23:24	4°8'24"17	
min. Earth dist.	11426 Nov 05 14:29	21°8'42"25	4.33408 AU				
direct	11427 Jan 04 23:02	16°8'55"11		conjunction	11432 Nov 19 13:39	7°8'32"39	0°30'25
	11427 Apr 17 14:36	0°11'		minimum elong	11432 Nov 19 13:38	7°8'32"38	0°31'03
evening set	11427 May 10 06:38	4°11'59"04		max. Earth dist.	11432 Nov 22 00:47	8°8'06"49	6.11847 AU
max. Earth dist.	11427 May 20 18:03	7°11'21"34	6.25317 AU	morning rise	11432 Dec 03 04:35	10°8'40"58	
				retrograde	11433 Apr 09 01:14	29°8'35"09	
conjunction	11427 May 23 02:01	7°11'53"23	-0°30'52	min. Earth dist.	11433 Jun 06 13:41	24°8'44"04	4.20534 AU
minimum elong	11427 May 23 02:00	7°11'53"23	0°31'30	opposition	11433 Jun 08 00:56	24°8'32"14	0°55'02
morning rise	11427 Jun 04 20:52	10°11'47"45		direct	11433 Aug 06 16:26	19°8'32"53	
retrograde	11427 Oct 08 05:58	29°11'10"35			11433 Nov 03 20:09	0°8'	
opposition	11427 Dec 07 17:20	24°11'16"24	-0°55'17	evening set	11433 Dec 10 22:26	7°8'52"09	
min. Earth dist.	11427 Dec 09 04:52	24°11'04"53	4.16601 AU				
direct	11428 Feb 06 13:23	19°11'18"06		conjunction	11433 Dec 24 09:37	10°8'51"38	0°40'28
	11428 May 05 15:30	0°8'		minimum elong	11433 Dec 24 09:37	10°8'51"37	0°41'11
evening set	11428 Jun 11 12:37	8°8'14"26		max. Earth dist.	11433 Dec 26 05:38	11°8'16"07	6.29157 AU
max. Earth dist.	11428 Jun 22 16:35	10°8'52"16	6.08126 AU	morning rise	11434 Jan 06 20:08	13°8'50"28	
					11434 Apr 08 18:30	0°8'	
conjunction	11428 Jun 24 10:15	11°8'16"54	-0°40'25	retrograde	11434 May 10 14:54	1°8'34"04	
minimum elong	11428 Jun 24 10:15	11°8'16"54	0°41'09		11434 Jun 11 06:05	30°8'8"	
morning rise	11428 Jul 07 08:24	14°8'20"01		min. Earth dist.	11434 Jul 09 04:16	26°8'40"45	4.36845 AU
	11428 Sep 22 18:39	0°8'		opposition	11434 Jul 10 01:07	26°8'33"53	0°59'35
retrograde	11428 Nov 13 03:46	3°8'58"21		direct	11434 Sep 09 00:17	21°8'33"17	
	11429 Jan 04 16:10	30°8'8"			11434 Nov 28 10:16	0°8'	
opposition	11429 Jan 12 00:58	29°8'02"12	-1°00'25	evening set	11435 Jan 12 14:38	9°8'07"54	
min. Earth dist.	11429 Jan 12 21:21	28°8'55"29	4.00458 AU				
direct	11429 Mar 12 12:22	24°8'05"59		conjunction	11435 Jan 25 21:14	11°8'59"49	0°37'54
	11429 May 13 21:36	0°8'		minimum elong	11435 Jan 25 21:15	11°8'59"49	0°38'29
evening set	11429 Jul 17 02:39	13°8'52"05		max. Earth dist.	11435 Jan 26 14:29	12°8'09"08	6.43259 AU
	11429 Jul 21 18:53	15°8'		morning rise	11435 Feb 08 02:26	14°8'50"50	
					11435 Feb 08 19:32	15°8'	
conjunction	11429 Jul 30 05:38	17°8'03"12	-0°35'52		11435 May 06 13:10	0°8'8"	
minimum elong	11429 Jul 30 05:38	17°8'03"12	0°36'24	retrograde	11435 Jun 09 14:20	1°8'45"12	
max. Earth dist.	11429 Jul 29 17:19	16°8'55"43	5.94566 AU		11435 Jul 13 13:09	30°8'8"	
morning rise	11429 Aug 12 10:21	20°8'15"27		opposition	11435 Aug 09 10:32	26°8'48"03	0°47'24
	11429 Sep 23 21:02	0°8'8"		min. Earth dist.	11435 Aug 09 08:15	26°8'48"48	4.47841 AU
retrograde	11429 Dec 21 19:31	10°8'53"34		direct	11435 Oct 10 10:09	21°8'46"51	
opposition	11430 Feb 19 06:11	5°8'54"27	-0°42'06		11435 Dec 29 16:07	0°8'8"	
min. Earth dist.	11430 Feb 19 01:02	5°8'56"10	3.90982 AU	evening set	11436 Feb 12 13:44	8°8'56"03	
direct	11430 Apr 18 13:42	0°8'59"32					
evening set	11430 Aug 23 16:12	21°8'10"42		conjunction	11436 Feb 25 15:54	11°8'43"28	0°25'07
				minimum elong	11436 Feb 25 15:55	11°8'43"28	0°25'24
conjunction	11430 Sep 06 01:40	24°8'27"04	-0°16'55	max. Earth dist.	11436 Feb 25 04:43	11°8'37"29	6.50394 AU
minimum elong	11430 Sep 06 01:40	24°8'27"04	0°17'02	morning rise	11436 Mar 09 15:58	14°8'29"53	
max. Earth dist.	11430 Sep 07 02:22	24°8'42"11	5.90155 AU		11436 Jun 11 16:29	0°8'8"	
morning rise	11430 Sep 19 13:30	27°8'44"40		retrograde	11436 Jul 08 03:56	1°8'03"57	
	11430 Sep 28 22:00	0°8'8"			11436 Aug 03 14:09	30°8'8"	
retrograde	11431 Jan 29 09:31	18°8'34"46		opposition	11436 Sep 07 05:58	26°8'09"16	0°23'25
opposition	11431 Mar 29 17:41	13°8'32"27	-0°05'54	min. Earth dist.	11436 Sep 07 23:02	26°8'03"48	4.50758 AU
min. Earth dist.	11431 Mar 28 14:07	13°8'41"49	3.92237 AU	direct	11436 Nov 08 19:39	21°8'08"03	
direct	11431 May 26 16:58	8°8'37"00			11437 Jan 31 18:53	0°8'8"	
asc. node	11431 May 27 01:16	8°8'37"01		evening set	11437 Mar 13 17:27	8°8'14"47	
evening set	11431 Sep 30 20:34	28°8'34"27		max. Earth dist.	11437 Mar 25 01:55	10°8'40"55	6.48851 AU
	11431 Oct 06 19:41	0°11'					
				conjunction	11437 Mar 26 15:35	11°8'01"12	0°05'58
conjunction	11431 Oct 14 10:38	1°11'49"42	0°08'56	minimum elong	11437 Mar 26 15:36	11°8'01"12	0°05'54
minimum elong	11431 Oct 14 10:37	1°11'49"42	0°09'16	behind sun begin	11437 Mar 26 07:59	10°8'57"07	
behind sun begin	11431 Oct 14 03:36	1°11'45"31		behind sun end	11437 Mar 26 23:13	11°8'05"17	





























































































































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desc. node	11437 Jul 16 08:15	29° Υ 46'54	behind sun end	11442 Sep 11 13:49	29° η 50'03	
	11437 Jul 19 21:35	0° \mathcal{B}		11442 Sep 12 06:03	0° \mathcal{A}	
retrograde	11437 Aug 07 11:23	0° \mathcal{B} 31'42	max. Earth dist.	11442 Sep 12 16:25	0° \mathcal{A} 06'20	5.89845 AU
	11437 Aug 25 22:55	30° $\mathcal{R}\Upsilon$	morning rise	11442 Sep 24 21:54	3° \mathcal{A} 05'25	
opposition	11437 Oct 07 13:06	25° Υ 38'17 -0°06'43	retrograde	11443 Feb 03 17:50	23° \mathcal{A} 55'05	
min. Earth dist.	11437 Oct 08 22:16	25° Υ 27'41 4.44872 AU	min. Earth dist.	11443 Apr 02 18:36	19° \mathcal{A} 02'33	3.92751 AU
direct	11437 Dec 09 02:44	20° Υ 37'24	opposition	11443 Apr 04 00:21	18° \mathcal{A} 52'27 -0°00'24	
	11438 Mar 04 23:27	0° \mathcal{B}	asc. node	11443 Apr 07 23:11	18° \mathcal{A} 20'20	
evening set	11438 Apr 13 01:36	8° \mathcal{B} 05'11	direct	11443 May 31 23:35	13° \mathcal{A} 56'52	
max. Earth dist.	11438 Apr 23 16:10	10° \mathcal{B} 24'58 6.38963 AU		11443 Sep 19 17:38	0° \mathcal{M}	
			evening set	11443 Oct 06 03:55	3° \mathcal{M} 51'34	
conjunction	11438 Apr 25 21:26	10° \mathcal{B} 54'20 -0°15'11				
minimum elong	11438 Apr 25 21:25	10° \mathcal{B} 54'20 0°15'36	conjunction	11443 Oct 19 18:15	7° \mathcal{M} 06'22	0°12'23
behind sun begin	11438 Apr 25 19:20	10° \mathcal{B} 53'11	minimum elong	11443 Oct 19 18:15	7° \mathcal{M} 06'22	0°12'46
behind sun end	11438 Apr 25 23:31	10° \mathcal{B} 55'29	behind sun begin	11443 Oct 19 13:05	7° \mathcal{M} 03'18	
morning rise	11438 May 08 15:49	13° \mathcal{B} 43'04	behind sun end	11443 Oct 19 23:24	7° \mathcal{M} 09'26	
	11438 May 14 12:40	15° \mathcal{B}	max. Earth dist.	11443 Oct 22 02:34	7° \mathcal{M} 40'01	5.98166 AU
	11438 Aug 12 01:08	0° \mathcal{I}	morning rise	11443 Nov 02 10:20	10° \mathcal{M} 21'46	
retrograde	11438 Sep 08 10:49	1° \mathcal{I} 09'00		11443 Nov 22 08:58	15° \mathcal{M}	
	11438 Oct 05 21:57	30° $\mathcal{R}\mathcal{B}$		11444 Feb 25 12:26	0° \mathcal{X}	
opposition	11438 Nov 08 07:54	26° \mathcal{B} 15'37 -0°36'24	retrograde	11444 Mar 11 02:00	0° \mathcal{X} 21'08	
min. Earth dist.	11438 Nov 09 23:25	26° \mathcal{B} 02'56 4.31533 AU		11444 Mar 25 14:28	30° $\mathcal{R}\mathcal{M}$	
direct	11439 Jan 09 04:20	21° \mathcal{B} 15'45	min. Earth dist.	11444 May 08 00:26	25° \mathcal{M} 30'38	4.05541 AU
	11439 Mar 31 03:51	0° \mathcal{I}	opposition	11444 May 09 16:06	25° \mathcal{M} 17'11	0°35'49
evening set	11439 May 14 14:24	9° \mathcal{I} 25'32	direct	11444 Jul 07 06:51	20° \mathcal{M} 19'33	
max. Earth dist.	11439 May 25 02:45	11° \mathcal{I} 49'13 6.23100 AU		11444 Sep 28 16:09	0° \mathcal{X}	
			evening set	11444 Nov 11 01:42	9° \mathcal{X} 25'53	
conjunction	11439 May 27 09:53	12° \mathcal{I} 20'46 -0°32'45				
minimum elong	11439 May 27 09:52	12° \mathcal{I} 20'45 0°33'25	conjunction	11444 Nov 24 15:42	12° \mathcal{X} 33'07	0°32'34
morning rise	11439 Jun 09 04:56	15° \mathcal{I} 16'07	minimum elong	11444 Nov 24 15:41	12° \mathcal{X} 33'06	0°33'14
	11439 Aug 23 07:43	0° \mathcal{E}	max. Earth dist.	11444 Nov 27 02:11	13° \mathcal{X} 06'45	6.14116 AU
retrograde	11439 Oct 13 01:57	3° \mathcal{E} 48'42	morning rise	11444 Dec 08 06:08	15° \mathcal{X} 40'10	
	11439 Dec 03 22:12	30° $\mathcal{R}\mathcal{I}$		11445 Feb 18 08:00	0° \mathcal{Z}	
opposition	11439 Dec 12 10:28	28° \mathcal{I} 54'19 -0°57'07	retrograde	11445 Apr 13 16:37	4° \mathcal{Z} 24'00	
min. Earth dist.	11439 Dec 13 22:15	28° \mathcal{I} 42'41 4.14175 AU		11445 Jun 07 21:20	30° $\mathcal{R}\mathcal{X}$	
direct	11440 Feb 11 03:05	23° \mathcal{I} 56'12	min. Earth dist.	11445 Jun 11 07:42	29° \mathcal{X} 32'30	4.22959 AU
	11440 Apr 15 15:08	0° \mathcal{E}	opposition	11445 Jun 12 17:08	29° \mathcal{X} 21'18	0°56'46
evening set	11440 Jun 16 03:40	13° \mathcal{E} 00'22	direct	11445 Aug 11 13:52	24° \mathcal{X} 21'43	
max. Earth dist.	11440 Jun 27 09:34	15° \mathcal{E} 40'12 6.05699 AU		11445 Oct 13 10:39	0° \mathcal{Z}	
			evening set	11445 Dec 15 16:40	12° \mathcal{Z} 33'38	
conjunction	11440 Jun 29 01:53	16° \mathcal{E} 04'10 -0°40'41				
minimum elong	11440 Jun 29 01:53	16° \mathcal{E} 04'10 0°41'23	conjunction	11445 Dec 29 03:16	15° \mathcal{Z} 31'52	0°40'48
morning rise	11440 Jul 12 00:53	19° \mathcal{E} 08'43	minimum elong	11445 Dec 29 03:16	15° \mathcal{Z} 31'52	0°41'30
	11440 Aug 30 02:58	0° \mathcal{O}	max. Earth dist.	11445 Dec 30 21:07	15° \mathcal{Z} 55'01	6.31520 AU
retrograde	11440 Nov 18 06:19	8° \mathcal{O} 58'02	morning rise	11446 Jan 11 13:03	18° \mathcal{Z} 29'25	
opposition	11441 Jan 17 02:25	4° \mathcal{O} 01'33 -0°59'20		11446 Mar 10 07:10	0° \mathcal{A}	
min. Earth dist.	11441 Jan 17 19:28	3° \mathcal{O} 55'56 3.98263 AU	retrograde	11446 May 14 21:00	6° \mathcal{A} 04'02	
	11441 Feb 21 21:37	30° $\mathcal{R}\mathcal{E}$	opposition	11446 Jul 14 10:01	1° \mathcal{A} 04'13	0°58'42
direct	11441 Mar 17 08:08	29° \mathcal{E} 05'34	min. Earth dist.	11446 Jul 13 14:39	1° \mathcal{A} 10'36	4.38948 AU
	11441 Apr 09 18:17	0° \mathcal{O}		11446 Jul 22 14:53	30° $\mathcal{R}\mathcal{Z}$	
	11441 Jul 05 10:35	15° \mathcal{O}	direct	11446 Sep 13 12:16	26° \mathcal{Z} 03'30	
evening set	11441 Jul 22 02:40	18° \mathcal{O} 58'55		11446 Nov 05 08:07	0° \mathcal{A}	
			evening set	11447 Jan 17 01:18	13° \mathcal{A} 32'36	
conjunction	11441 Aug 04 06:33	22° \mathcal{O} 11'18 -0°34'02		11447 Jan 23 20:09	15° \mathcal{A}	
minimum elong	11441 Aug 04 06:34	22° \mathcal{O} 11'19 0°34'33				
max. Earth dist.	11441 Aug 03 22:24	22° \mathcal{O} 06'20 5.92825 AU	conjunction	11447 Jan 30 07:15	16° \mathcal{A} 23'36	0°36'35
morning rise	11441 Aug 17 12:24	25° \mathcal{O} 24'54	minimum elong	11447 Jan 30 07:16	16° \mathcal{A} 23'36	0°37'08
	11441 Sep 05 17:36	0° \mathcal{M}	max. Earth dist.	11447 Jan 30 20:44	16° \mathcal{A} 30'52	6.44940 AU
retrograde	11441 Dec 27 04:17	16° \mathcal{M} 10'28	morning rise	11447 Feb 12 11:36	19° \mathcal{A} 13'39	
opposition	11442 Feb 24 13:13	11° \mathcal{M} 10'53 -0°37'57		11447 Apr 08 16:16	0° \mathcal{H}	
min. Earth dist.	11442 Feb 24 05:07	11° \mathcal{M} 13'37 3.89889 AU	retrograde	11447 Jun 13 18:34	6° \mathcal{H} 02'45	
direct	11442 Apr 23 18:24	6° \mathcal{M} 16'00	opposition	11447 Aug 13 15:27	1° \mathcal{H} 06'01	0°44'33
evening set	11442 Aug 28 22:40	26° \mathcal{M} 30'15	min. Earth dist.	11447 Aug 13 16:23	1° \mathcal{H} 05'43	4.48977 AU
				11447 Aug 22 05:05	30° $\mathcal{R}\mathcal{A}$	
conjunction	11442 Sep 11 09:16	29° \mathcal{M} 47'17 -0°13'32	direct	11447 Oct 14 18:44	26° \mathcal{A} 04'50	
minimum elong	11442 Sep 11 09:17	29° \mathcal{M} 47'17 0°13'37		11447 Dec 07 01:32	0° \mathcal{H}	

evening set	11448 Feb 16 19:45	13° H 11'35		11453 Jun 16 20:34	15° Q	
				evening set	11453 Jul 27 08:33	24° Q 21'24
conjunction	11448 Feb 29 21:10	15° H 58'33	0°22'41	conjunction	11453 Aug 09 13:36	27° Q 34'55 -0°31'50
minimum elong	11448 Feb 29 21:11	15° H 58'33	0°22'55	minimum elong	11453 Aug 09 13:37	27° Q 34'56 0°32'16
max. Earth dist.	11448 Feb 29 04:44	15° H 49'47	6.50892 AU	max. Earth dist.	11453 Aug 09 12:03	27° Q 33'59 5.91541 AU
morning rise	11448 Mar 13 20:45	18° H 44'35			11453 Aug 19 10:55	0° P
	11448 May 11 16:39	0° Y		morning rise	11453 Aug 22 20:26	0° P 49'37
retrograde	11448 Jul 12 08:15	5° Y 17'49		retrograde	11454 Jan 01 17:40	21° P 40'03
opposition	11448 Sep 11 10:17	0° Y 23'22	0°19'23	opposition	11454 Mar 02 01:01	16° P 40'01 -0°33'13
min. Earth dist.	11448 Sep 12 06:12	0° Y 16'59	4.50599 AU	min. Earth dist.	11454 Mar 01 13:19	16° P 43'57 3.89473 AU
	11448 Sep 14 11:12	30° R H		direct	11454 Apr 29 03:11	11° P 45'11
direct	11448 Nov 13 00:49	25° H 22'08			11454 Aug 26 03:26	0° Q
	11449 Jan 10 11:41	0° Y		evening set	11454 Sep 03 09:06	1° Q 59'23
evening set	11449 Mar 17 22:08	12° Y 30'03				
max. Earth dist.	11449 Mar 29 04:18	14° Y 55'12	6.48043 AU	conjunction	11454 Sep 16 20:18	5° Q 16'31 -0°09'55
				minimum elong	11454 Sep 16 20:19	5° Q 16'31 0°09'55
conjunction	11449 Mar 30 20:00	15° Y 16'37	0°03'00	behind sun begin	11454 Sep 16 13:33	5° Q 12'25
minimum elong	11449 Mar 30 20:01	15° Y 16'37	0°02'53	behind sun end	11454 Sep 17 03:05	5° Q 20'38
behind sun begin	11449 Mar 30 12:03	15° Y 12'21		max. Earth dist.	11454 Sep 18 07:38	5° Q 38'05 5.90335 AU
behind sun end	11449 Mar 31 03:59	15° Y 20'54		morning rise	11454 Sep 30 09:52	8° Q 34'46
morning rise	11449 Apr 12 15:52	18° Y 02'26		retrograde	11455 Feb 09 00:08	29° Q 20'01
desc. node	11449 May 26 00:30	26° Y 47'28		asc. node	11455 Feb 16 14:17	29° Q 14'12
	11449 Jun 14 03:39	0° R		min. Earth dist.	11455 Apr 07 23:08	24° Q 28'16 3.94111 AU
retrograde	11449 Aug 11 18:31	4° R 50'58		opposition	11455 Apr 09 08:18	24° Q 17'00 0°05'15
opposition	11449 Oct 11 20:37	29° Y 57'37	-0°11'05	direct	11455 Jun 06 08:18	19° Q 21'08
	11449 Oct 11 13:10	30° R Y			11455 Aug 31 23:14	0° R
min. Earth dist.	11449 Oct 13 06:50	29° Y 46'41	4.43459 AU	evening set	11455 Oct 11 11:58	9° R 09'44
direct	11449 Dec 13 07:52	24° Y 56'52				
	11450 Feb 12 01:18	0° R		conjunction	11455 Oct 25 02:29	12° R 23'37 0°15'48
evening set	11450 Apr 17 08:45	12° R 29'16		minimum elong	11455 Oct 25 02:28	12° R 23'36 0°16'13
max. Earth dist.	11450 Apr 27 21:10	14° R 48'31	6.37030 AU	max. Earth dist.	11455 Oct 27 12:43	12° R 58'15 6.00250 AU
	11450 Apr 28 17:53	15° R			11455 Nov 05 02:07	15° R
conjunction	11450 Apr 30 04:17	15° R 19'04	-0°17'59	morning rise	11455 Nov 07 18:28	15° R 37'57
minimum elong	11450 Apr 30 04:16	15° R 19'03	0°18'27		11456 Jan 15 13:28	0° R
morning rise	11450 May 12 22:42	18° R 08'31		retrograde	11456 Mar 15 23:55	5° R 26'28
	11450 Jul 11 11:23	0° II		min. Earth dist.	11456 May 13 00:15	0° R 35'40 4.08089 AU
retrograde	11450 Sep 13 04:01	5° II 42'34		opposition	11456 May 14 15:11	0° R 22'28 0°39'51
opposition	11450 Nov 12 22:25	0° II 49'07	-0°40'03		11456 May 17 09:33	30° R R
min. Earth dist.	11450 Nov 14 15:08	0° II 36'01	4.29178 AU	direct	11456 Jul 12 10:49	25° R 24'28
	11450 Nov 19 07:41	30° R R			11456 Sep 05 11:45	0° R
direct	11451 Jan 13 16:23	25° R 49'23		evening set	11456 Nov 16 01:50	14° R 21'54
	11451 Mar 08 10:59	0° II				
evening set	11451 May 19 03:23	14° II 06'36		conjunction	11456 Nov 29 15:31	17° R 27'43 0°34'29
max. Earth dist.	11451 May 29 16:22	16° II 31'29	6.20508 AU	minimum elong	11456 Nov 29 15:30	17° R 27'43 0°35'10
				max. Earth dist.	11456 Dec 02 01:51	18° R 01'02 6.16883 AU
conjunction	11451 May 31 23:09	17° II 03'00	-0°34'34	morning rise	11456 Dec 13 05:20	20° R 33'16
minimum elong	11451 May 31 23:09	17° II 02'59	0°35'15		11457 Jan 26 12:58	0° R
morning rise	11451 Jun 13 18:34	19° II 59'35		retrograde	11457 Apr 18 02:54	9° R 05'19
	11451 Jul 30 08:39	0° R		min. Earth dist.	11457 Jun 15 21:47	4° R 13'51 4.25690 AU
retrograde	11451 Oct 18 02:05	8° R 43'17		opposition	11457 Jun 17 06:29	4° R 02'56 0°58'05
opposition	11451 Dec 17 09:45	3° R 48'40	-0°58'43		11457 Jul 22 23:14	30° R R
min. Earth dist.	11451 Dec 18 19:06	3° R 37'49	4.11556 AU	direct	11457 Aug 16 06:49	29° R 03'08
	11452 Jan 19 20:56	30° R II			11457 Sep 09 22:19	0° R
direct	11452 Feb 15 20:18	28° II 50'51		evening set	11457 Dec 20 07:44	17° R 07'00
	11452 Mar 13 18:58	0° R				
evening set	11452 Jun 21 01:18	18° R 03'28		conjunction	11458 Jan 02 17:33	20° R 03'54 0°40'52
max. Earth dist.	11452 Jul 02 11:22	20° R 46'40	6.03289 AU	minimum elong	11458 Jan 02 17:33	20° R 03'54 0°41'35
				max. Earth dist.	11458 Jan 04 06:31	20° R 24'15 6.33991 AU
conjunction	11452 Jul 04 00:08	21° R 08'38	-0°40'40	morning rise	11458 Jan 16 02:36	23° R 00'07
minimum elong	11452 Jul 04 00:09	21° R 08'38	0°41'21		11458 Feb 18 11:36	0° R
morning rise	11452 Jul 17 00:01	24° R 14'39		retrograde	11458 May 19 02:30	10° R 25'59
	11452 Aug 10 19:04	0° Q		opposition	11458 Jul 18 16:17	5° R 26'36 0°57'31
retrograde	11452 Nov 23 17:05	14° Q 14'45		min. Earth dist.	11458 Jul 18 00:42	5° R 31'43 4.40982 AU
opposition	11453 Jan 22 10:24	9° Q 17'52	-0°57'41	direct	11458 Sep 18 00:07	0° R 25'44
min. Earth dist.	11453 Jan 23 00:30	9° Q 13'12	3.96303 AU		11459 Jan 07 23:26	15° R
direct	11453 Mar 22 12:34	4° Q 22'06		evening set	11459 Jan 21 09:10	17° R 49'48

conjunction	11459 Feb 03 14:30	20° \approx 39'58	0°35'07		11464 Jul 24 10:26	0° Ω	
minimum elong	11459 Feb 03 14:31	20° \approx 39'59	0°35'37		11464 Oct 04 22:35	15° Ω	
max. Earth dist.	11459 Feb 03 23:47	20° \approx 44'57	6.46387 AU	retrograde	11464 Nov 29 05:01	19° Ω 35'46	
morning rise	11459 Feb 16 18:06	23° \approx 29'12			11465 Jan 25 03:20	15° $\mathbb{R}\Omega$	
	11459 Mar 20 11:04	0° \mathbb{X}		opposition	11465 Jan 27 20:04	14° Ω 38'32	-0°55'31
retrograde	11459 Jun 17 19:05	10° \mathbb{X} 13'59		min. Earth dist.	11465 Jan 28 06:26	14° Ω 35'06	3.94765 AU
opposition	11459 Aug 17 18:05	5° \mathbb{X} 17'37	0°41'33	direct	11465 Mar 27 17:24	9° Ω 43'04	
min. Earth dist.	11459 Aug 17 21:25	5° \mathbb{X} 16'33	4.49775 AU		11465 May 25 00:49	15° Ω	
direct	11459 Oct 18 22:56	0° \mathbb{X} 16'23		evening set	11465 Aug 01 15:55	29° Ω 46'31	
evening set	11460 Feb 20 23:51	17° \mathbb{X} 21'55			11465 Aug 02 14:04	0° \mathbb{P}	
max. Earth dist.	11460 Mar 04 04:58	19° \mathbb{X} 58'03	6.50987 AU				
				conjunction	11465 Aug 14 21:42	3° \mathbb{P} 00'47	-0°29'20
conjunction	11460 Mar 05 00:47	20° \mathbb{X} 08'38	0°20'10	minimum elong	11465 Aug 14 21:43	3° \mathbb{P} 00'48	0°29'43
minimum elong	11460 Mar 05 00:48	20° \mathbb{X} 08'39	0°20'22	max. Earth dist.	11465 Aug 15 00:41	3° \mathbb{P} 02'37	5.90797 AU
morning rise	11460 Mar 17 23:42	22° \mathbb{X} 54'26		morning rise	11465 Aug 28 05:43	6° \mathbb{P} 16'21	
	11460 Apr 21 21:25	0° \mathbb{Y}		retrograde	11466 Jan 07 03:38	27° \mathbb{P} 08'57	
retrograde	11460 Jul 16 11:42	9° \mathbb{Y} 28'13		opposition	11466 Mar 07 11:54	22° \mathbb{P} 08'25	-0°28'12
opposition	11460 Sep 15 13:49	4° \mathbb{Y} 34'03	0°15'18	min. Earth dist.	11466 Mar 06 19:44	22° \mathbb{P} 13'52	3.89619 AU
min. Earth dist.	11460 Sep 16 12:38	4° \mathbb{Y} 26'45	4.49991 AU	direct	11466 May 04 12:26	17° \mathbb{P} 13'33	
	11460 Oct 30 19:52	30° $\mathbb{R}\mathbb{X}$			11466 Aug 08 02:50	0° $\underline{\Omega}$	
direct	11460 Nov 17 05:09	29° \mathbb{X} 32'54		evening set	11466 Sep 08 18:33	7° $\underline{\Omega}$ 25'39	
	11460 Dec 04 16:15	0° \mathbb{Y}					
evening set	11461 Mar 22 02:19	16° \mathbb{Y} 43'24		conjunction	11466 Sep 22 06:30	10° $\underline{\Omega}$ 42'37	-0°06'15
max. Earth dist.	11461 Apr 02 03:28	19° \mathbb{Y} 06'23	6.46759 AU	minimum elong	11466 Sep 22 06:30	10° $\underline{\Omega}$ 42'37	0°06'11
				behind sun begin	11466 Sep 21 22:35	10° $\underline{\Omega}$ 37'49	
conjunction	11461 Apr 03 23:40	19° \mathbb{Y} 30'17	-0°00'01	behind sun end	11466 Sep 22 14:24	10° $\underline{\Omega}$ 47'25	
minimum elong	11461 Apr 03 23:40	19° \mathbb{Y} 30'18	0°00'12	max. Earth dist.	11466 Sep 23 22:40	11° $\underline{\Omega}$ 07'05	5.91344 AU
behind sun begin	11461 Apr 03 15:45	19° \mathbb{Y} 26'02		morning rise	11466 Oct 05 20:31	14° $\underline{\Omega}$ 00'35	
behind sun end	11461 Apr 04 07:35	19° \mathbb{Y} 34'33			11466 Dec 21 00:37	0° \mathbb{L}	
desc. node	11461 Apr 03 14:48	19° \mathbb{Y} 25'31		asc. node	11466 Dec 27 20:20	1° \mathbb{L} 00'52	
morning rise	11461 Apr 16 19:24	22° \mathbb{Y} 16'31		retrograde	11467 Feb 14 05:33	4° \mathbb{L} 39'29	
	11461 May 24 11:28	0° \mathbb{Z}			11467 Apr 11 15:35	30° $\mathbb{R}\underline{\Omega}$	
retrograde	11461 Aug 16 04:41	9° \mathbb{Z} 10'28		min. Earth dist.	11467 Apr 13 03:47	29° $\underline{\Omega}$ 47'43	3.95833 AU
opposition	11461 Oct 16 04:53	4° \mathbb{Z} 17'12	-0°15'24	opposition	11467 Apr 14 13:45	29° $\underline{\Omega}$ 36'10	0°10'45
min. Earth dist.	11461 Oct 17 17:03	4° \mathbb{Z} 05'38	4.41575 AU	direct	11467 Jun 11 16:35	24° $\underline{\Omega}$ 40'02	
	11461 Nov 25 16:11	30° $\mathbb{R}\mathbb{Y}$			11467 Aug 09 09:23	0° \mathbb{L}	
direct	11461 Dec 17 14:37	29° \mathbb{Y} 16'33		evening set	11467 Oct 16 17:15	14° \mathbb{L} 21'38	
	11462 Jan 08 14:52	0° \mathbb{Z}			11467 Oct 19 10:24	15° \mathbb{L}	
	11462 Apr 12 22:29	15° \mathbb{Z}					
evening set	11462 Apr 21 16:48	16° \mathbb{Z} 55'09		conjunction	11467 Oct 30 07:55	17° \mathbb{L} 34'30	0°19'01
max. Earth dist.	11462 May 02 05:06	19° \mathbb{Z} 15'03	6.34687 AU	minimum elong	11467 Oct 30 07:54	17° \mathbb{L} 34'29	0°19'30
				max. Earth dist.	11467 Nov 01 20:27	18° \mathbb{L} 10'17	6.02497 AU
conjunction	11462 May 04 12:25	19° \mathbb{Z} 45'51	-0°20'42	morning rise	11467 Nov 12 23:46	20° \mathbb{L} 47'41	
minimum elong	11462 May 04 12:24	19° \mathbb{Z} 45'50	0°21'11		11467 Dec 24 09:46	0° \mathbb{Z}	
morning rise	11462 May 17 06:43	22° \mathbb{Z} 36'14		retrograde	11468 Mar 20 17:46	10° \mathbb{Z} 25'13	
	11462 Jun 21 01:22	0° \mathbb{I}		min. Earth dist.	11468 May 17 19:59	5° \mathbb{Z} 34'39	4.10619 AU
retrograde	11462 Sep 17 20:58	10° \mathbb{I} 19'47		opposition	11468 May 19 11:15	5° \mathbb{Z} 21'22	0°43'31
opposition	11462 Nov 17 14:33	5° \mathbb{I} 26'18	-0°43'29	direct	11468 Jul 17 09:48	0° \mathbb{Z} 23'08	
min. Earth dist.	11462 Nov 19 06:36	5° \mathbb{I} 13'24	4.26540 AU	evening set	11468 Nov 20 23:30	19° \mathbb{Z} 12'19	
direct	11463 Jan 18 03:29	0° \mathbb{I} 26'53					
evening set	11463 May 23 18:43	18° \mathbb{I} 52'37		conjunction	11468 Dec 04 12:36	22° \mathbb{Z} 16'46	0°36'08
max. Earth dist.	11463 Jun 03 09:16	21° \mathbb{I} 19'21	6.17787 AU	minimum elong	11468 Dec 04 12:35	22° \mathbb{Z} 16'46	0°36'50
				max. Earth dist.	11468 Dec 06 19:12	22° \mathbb{Z} 47'47	6.19462 AU
conjunction	11463 Jun 05 14:40	21° \mathbb{I} 50'15	-0°36'10	morning rise	11468 Dec 18 01:56	25° \mathbb{Z} 20'56	
minimum elong	11463 Jun 05 14:39	21° \mathbb{I} 50'15	0°36'52		11469 Jan 08 04:10	0° \mathbb{Z}	
morning rise	11463 Jun 18 10:38	24° \mathbb{I} 48'13		retrograde	11469 Apr 22 12:58	13° \mathbb{Z} 42'31	
	11463 Jul 11 11:57	0° \mathbb{O}		opposition	11469 Jun 21 17:50	8° \mathbb{Z} 40'30	0°59'03
retrograde	11463 Oct 23 06:52	13° \mathbb{O} 43'41		min. Earth dist.	11469 Jun 20 12:03	8° \mathbb{Z} 50'26	4.28097 AU
opposition	11463 Dec 22 11:49	8° \mathbb{O} 48'51	-0°59'55	direct	11469 Aug 20 23:57	3° \mathbb{Z} 40'28	
min. Earth dist.	11463 Dec 23 19:15	8° \mathbb{O} 38'35	4.08971 AU	evening set	11469 Dec 24 21:16	21° \mathbb{Z} 37'44	
direct	11464 Feb 20 18:31	3° \mathbb{O} 51'22					
evening set	11464 Jun 26 01:07	23° \mathbb{O} 12'09		conjunction	11470 Jan 07 06:39	24° \mathbb{Z} 33'36	0°40'43
max. Earth dist.	11464 Jul 07 17:26	25° \mathbb{O} 59'50	6.01102 AU	minimum elong	11470 Jan 07 06:39	24° \mathbb{Z} 33'36	0°41'24
				max. Earth dist.	11470 Jan 08 17:02	24° \mathbb{Z} 52'27	6.36057 AU
conjunction	11464 Jul 09 00:51	26° \mathbb{O} 18'41	-0°40'19	morning rise	11470 Jan 20 14:49	27° \mathbb{Z} 28'39	
minimum elong	11464 Jul 09 00:51	26° \mathbb{O} 18'41	0°41'00		11470 Feb 01 08:07	0° \approx	
morning rise	11464 Jul 22 01:31	29° \mathbb{O} 26'05		retrograde	11470 May 23 05:38	14° \approx 47'17	

opposition	11470 Jul 22 21:48	9° \approx 48'22	0°56'03	conjunction	11476 Jul 14 01:02	1° Ω 26'47	-0°39'43
min. Earth dist.	11470 Jul 22 08:07	9° \approx 52'51	4.42577 AU	minimum elong	11476 Jul 14 01:02	1° Ω 26'47	0°40'23
direct	11470 Sep 22 08:23	4° \approx 47'26		morning rise	11476 Jul 27 02:40	4° Ω 35'15	
	11470 Dec 21 19:22	15° \approx			11476 Sep 11 06:44	15° Ω	
evening set	11471 Jan 25 16:57	22° \approx 07'53		retrograde	11476 Dec 04 12:06	24° Ω 51'19	
				opposition	11477 Feb 02 03:24	19° Ω 53'36	-0°52'59
conjunction	11471 Feb 07 21:34	24° \approx 57'24	0°33'28	min. Earth dist.	11477 Feb 02 09:22	19° Ω 51'36	3.93952 AU
minimum elong	11471 Feb 07 21:35	24° \approx 57'24	0°33'55		11477 Mar 28 19:14	15° \mathbb{R} δ	
max. Earth dist.	11471 Feb 08 01:35	24° \approx 59'33	6.47405 AU	direct	11477 Apr 01 21:08	14° Ω 58'16	
morning rise	11471 Feb 21 00:35	27° \approx 46'00			11477 Apr 05 23:25	15° Ω	
	11471 Mar 03 14:25	0° \mathbb{X}			11477 Jul 16 16:26	0° \mathbb{M}	
retrograde	11471 Jun 21 23:05	14° \mathbb{X} 27'55		evening set	11477 Aug 06 20:08	5° \mathbb{M} 02'59	
opposition	11471 Aug 21 21:51	9° \mathbb{X} 31'55	0°38'19				
min. Earth dist.	11471 Aug 22 04:58	9° \mathbb{X} 29'38	4.50165 AU	conjunction	11477 Aug 20 02:50	8° \mathbb{M} 17'43	-0°26'43
direct	11471 Oct 23 06:04	4° \mathbb{X} 30'38		minimum elong	11477 Aug 20 02:51	8° \mathbb{M} 17'44	0°27'03
evening set	11472 Feb 25 05:01	21° \mathbb{X} 36'00		max. Earth dist.	11477 Aug 20 12:18	8° \mathbb{M} 23'30	5.90730 AU
max. Earth dist.	11472 Mar 08 05:18	24° \mathbb{X} 09'43	6.50718 AU	morning rise	11477 Sep 02 11:33	11° \mathbb{M} 33'39	
					11477 Dec 04 09:05	0° $\underline{\Omega}$	
conjunction	11472 Mar 09 05:28	24° \mathbb{X} 22'37	0°17'31	retrograde	11478 Jan 12 10:47	2° $\underline{\Omega}$ 25'37	
minimum elong	11472 Mar 09 05:28	24° \mathbb{X} 22'38	0°17'40		11478 Feb 20 13:34	30° \mathbb{R} \mathbb{M}	
morning rise	11472 Mar 22 03:55	27° \mathbb{X} 08'21		opposition	11478 Mar 12 18:14	27° \mathbb{M} 24'38	-0°23'11
	11472 Apr 04 18:48	0° \mathbb{Y}		min. Earth dist.	11478 Mar 12 00:05	27° \mathbb{M} 30'45	3.90311 AU
retrograde	11472 Jul 20 16:38	13° \mathbb{Y} 43'44		direct	11478 May 09 19:21	22° \mathbb{M} 29'40	
opposition	11472 Sep 19 19:10	8° \mathbb{Y} 49'44	0°11'04		11478 Jul 19 03:17	0° $\underline{\Omega}$	
min. Earth dist.	11472 Sep 20 19:38	8° \mathbb{Y} 41'54	4.49103 AU	evening set	11478 Sep 13 22:45	12° $\underline{\Omega}$ 37'43	
direct	11472 Nov 21 09:52	3° \mathbb{Y} 48'35					
desc. node	11473 Feb 08 22:21	11° \mathbb{Y} 54'35		conjunction	11478 Sep 27 11:11	15° $\underline{\Omega}$ 54'16	-0°02'42
evening set	11473 Mar 26 08:28	21° \mathbb{Y} 02'23		minimum elong	11478 Sep 27 11:11	15° $\underline{\Omega}$ 54'15	0°02'34
max. Earth dist.	11473 Apr 06 08:30	23° \mathbb{Y} 25'12	6.45321 AU	behind sun begin	11478 Sep 27 02:50	15° $\underline{\Omega}$ 49'13	
				behind sun end	11478 Sep 27 19:33	15° $\underline{\Omega}$ 59'18	
conjunction	11473 Apr 08 05:37	23° \mathbb{Y} 49'42	-0°03'06	max. Earth dist.	11478 Sep 29 07:12	16° $\underline{\Omega}$ 20'57	5.92703 AU
minimum elong	11473 Apr 08 05:36	23° \mathbb{Y} 49'41	0°03'20	morning rise	11478 Oct 11 01:39	19° $\underline{\Omega}$ 11'44	
behind sun begin	11473 Apr 07 21:40	23° \mathbb{Y} 45'24		asc. node	11478 Nov 08 03:11	25° $\underline{\Omega}$ 45'21	
behind sun end	11473 Apr 08 13:32	23° \mathbb{Y} 53'58			11478 Nov 27 22:34	0° \mathbb{M}	
morning rise	11473 Apr 21 00:54	26° \mathbb{Y} 36'19		retrograde	11479 Feb 19 03:18	9° \mathbb{M} 43'03	
	11473 May 06 23:28	0° \mathbb{Z}		min. Earth dist.	11479 Apr 18 01:21	4° \mathbb{M} 51'43	3.97717 AU
retrograde	11473 Aug 20 15:38	13° \mathbb{Z} 36'01		opposition	11479 Apr 19 13:01	4° \mathbb{M} 39'37	0°15'53
opposition	11473 Oct 20 15:33	8° \mathbb{Z} 42'50	-0°19'45		11479 Jun 03 23:11	30° \mathbb{R} $\underline{\Omega}$	
min. Earth dist.	11473 Oct 22 04:49	8° \mathbb{Z} 30'55	4.39687 AU	direct	11479 Jun 16 16:48	29° $\underline{\Omega}$ 43'15	
direct	11473 Dec 21 23:17	3° \mathbb{Z} 42'23			11479 Jun 29 12:41	0° \mathbb{M}	
	11474 Mar 26 22:44	15° \mathbb{Z}			11479 Oct 03 01:46	15° \mathbb{M}	
evening set	11474 Apr 26 03:06	21° \mathbb{Z} 26'54		evening set	11479 Oct 21 16:52	19° \mathbb{M} 17'48	
max. Earth dist.	11474 May 06 13:56	23° \mathbb{Z} 46'45	6.32496 AU				
				conjunction	11479 Nov 04 07:20	22° \mathbb{M} 29'35	0°21'57
conjunction	11474 May 08 22:28	24° \mathbb{Z} 18'24	-0°23'21	minimum elong	11479 Nov 04 07:18	22° \mathbb{M} 29'35	0°22'30
minimum elong	11474 May 08 22:28	24° \mathbb{Z} 18'23	0°23'54	max. Earth dist.	11479 Nov 06 18:11	23° \mathbb{M} 04'11	6.04698 AU
morning rise	11474 May 21 17:00	27° \mathbb{Z} 09'43		morning rise	11479 Nov 17 23:08	25° \mathbb{M} 41'40	
	11474 Jun 03 13:54	0° \mathbb{I}			11479 Dec 06 18:20	0° \mathbb{Z}	
retrograde	11474 Sep 22 17:13	15° \mathbb{I} 02'17		retrograde	11480 Mar 25 06:35	15° \mathbb{Z} 09'05	
opposition	11474 Nov 22 09:10	10° \mathbb{I} 08'38	-0°46'46	min. Earth dist.	11480 May 22 11:56	10° \mathbb{Z} 18'10	4.12913 AU
min. Earth dist.	11474 Nov 24 00:17	9° \mathbb{I} 56'01	4.24210 AU	opposition	11480 May 24 01:42	10° \mathbb{Z} 05'25	0°46'43
direct	11475 Jan 22 18:58	5° \mathbb{I} 09'29		direct	11480 Jul 22 04:42	5° \mathbb{Z} 06'54	
evening set	11475 May 28 11:16	23° \mathbb{I} 42'15		evening set	11480 Nov 25 15:48	23° \mathbb{Z} 49'11	
max. Earth dist.	11475 Jun 08 05:53	26° \mathbb{I} 12'03	6.15538 AU				
				conjunction	11480 Dec 09 04:41	26° \mathbb{Z} 52'33	0°37'30
conjunction	11475 Jun 10 07:39	26° \mathbb{I} 40'59	-0°37'35	minimum elong	11480 Dec 09 04:41	26° \mathbb{Z} 52'33	0°38'14
minimum elong	11475 Jun 10 07:38	26° \mathbb{I} 40'58	0°38'17	max. Earth dist.	11480 Dec 11 09:55	27° \mathbb{Z} 22'39	6.21670 AU
morning rise	11475 Jun 23 03:53	29° \mathbb{I} 40'03		morning rise	11480 Dec 22 17:18	29° \mathbb{Z} 55'30	
	11475 Jun 24 14:25	0° \mathbb{O}			11480 Dec 23 01:20	0° \mathbb{Z}	
retrograde	11475 Oct 28 11:09	18° \mathbb{O} 45'11		retrograde	11481 Apr 26 19:18	18° \mathbb{Z} 08'26	
opposition	11475 Dec 27 14:22	13° \mathbb{O} 50'07	-1°00'43	min. Earth dist.	11481 Jun 24 21:08	13° \mathbb{Z} 16'14	4.30051 AU
min. Earth dist.	11475 Dec 28 19:10	13° \mathbb{O} 40'42	4.07024 AU	opposition	11481 Jun 26 01:11	13° \mathbb{Z} 06'55	0°59'42
direct	11476 Feb 25 16:25	8° \mathbb{O} 53'00		direct	11481 Aug 25 10:42	8° \mathbb{Z} 06'48	
evening set	11476 Jul 01 00:51	28° \mathbb{O} 19'18		evening set	11481 Dec 29 07:11	25° \mathbb{Z} 59'13	
	11476 Jul 08 00:50	0° Ω					
max. Earth dist.	11476 Jul 12 21:07	1° Ω 09'58	5.99635 AU	conjunction	11482 Jan 11 15:50	28° \mathbb{Z} 54'12	0°40'22
				minimum elong	11482 Jan 11 15:50	28° \mathbb{Z} 54'13	0°41'02

max. Earth dist.	11482 Jan 12 20:54	29° Z 10'05	6.37615 AU	minimum elong	11487 Jun 14 23:00	1° Z 28'43	0°39'25
	11482 Jan 16 16:15	0° \approx		morning rise	11487 Jun 27 19:55	4° Z 28'59	
morning rise	11482 Jan 24 23:31	1° \approx 48'25		retrograde	11487 Nov 02 13:04	23° Z 43'54	
	11482 Apr 04 17:05	15° \approx		opposition	11488 Jan 01 15:16	18° Z 48'28	-1°01'01
retrograde	11482 May 27 09:00	19° \approx 01'53		min. Earth dist.	11488 Jan 02 17:04	18° Z 40'00	4.05006 AU
	11482 Jul 19 19:06	15° R \approx		direct	11488 Mar 01 12:35	13° Z 51'34	
opposition	11482 Jul 27 01:11	14° \approx 03'26	0°54'25		11488 Jun 21 14:24	0° Z	
min. Earth dist.	11482 Jul 26 14:52	14° \approx 06'49	4.43669 AU	evening set	11488 Jul 05 23:00	3° Z 23'58	
direct	11482 Sep 26 15:22	9° \approx 02'26		max. Earth dist.	11488 Jul 18 01:44	6° Z 19'04	5.97999 AU
	11482 Dec 02 04:50	15° \approx					
evening set	11483 Jan 29 22:35	26° \approx 20'54		conjunction	11488 Jul 19 00:05	6° Z 32'34	-0°38'48
				minimum elong	11488 Jul 19 00:05	6° Z 32'34	0°39'25
conjunction	11483 Feb 12 02:48	29° \approx 10'02	0°31'42	morning rise	11488 Aug 01 02:26	9° Z 42'09	
minimum elong	11483 Feb 12 02:49	29° \approx 10'03	0°32'09		11488 Aug 23 14:43	15° Z	
max. Earth dist.	11483 Feb 12 04:11	29° \approx 10'46	6.47973 AU		11488 Dec 02 09:24	0° R	
	11483 Feb 15 23:58	0° H		retrograde	11488 Dec 09 20:44	0° R 05'32	
morning rise	11483 Feb 25 05:05	1° H 58'12			11488 Dec 17 07:39	30° R Z	
retrograde	11483 Jun 26 00:06	18° H 38'39		opposition	11489 Feb 07 09:51	25° Z 07'24	-0°49'59
opposition	11483 Aug 26 00:17	13° H 43'02	0°35'00	min. Earth dist.	11489 Feb 07 13:33	25° Z 06'10	3.92872 AU
min. Earth dist.	11483 Aug 26 08:50	13° H 40'17	4.50207 AU	direct	11489 Apr 07 01:14	20° Z 12'13	
direct	11483 Oct 27 08:47	8° H 41'49			11489 Jun 28 01:18	0° R	
evening set	11484 Feb 29 09:15	25° H 47'59		evening set	11489 Aug 12 00:19	10° R 19'32	
max. Earth dist.	11484 Mar 12 06:00	28° H 20'04	6.50237 AU				
				conjunction	11489 Aug 25 07:52	13° R 34'53	-0°23'50
conjunction	11484 Mar 13 09:08	28° H 34'36	0°14'51	minimum elong	11489 Aug 25 07:53	13° R 34'54	0°24'07
minimum elong	11484 Mar 13 09:09	28° H 34'36	0°14'56	max. Earth dist.	11489 Aug 25 21:48	13° R 43'24	5.90313 AU
behind sun begin	11484 Mar 13 06:10	28° H 33'01		morning rise	11489 Sep 07 17:37	16° R 51'28	
behind sun end	11484 Mar 13 12:07	28° H 36'11			11489 Nov 05 18:51	0° Z	
	11484 Mar 20 00:33	0° Y		retrograde	11490 Jan 17 17:03	7° Z 44'01	
morning rise	11484 Mar 26 07:08	1° Y 20'21		min. Earth dist.	11490 Mar 17 02:43	2° Z 49'59	3.90632 AU
retrograde	11484 Jul 24 22:29	17° Y 57'57		opposition	11490 Mar 18 00:25	2° Z 42'39	-0°17'55
opposition	11484 Sep 24 00:17	13° Y 04'10	0°06'51		11490 Apr 08 07:25	30° R R	
min. Earth dist.	11484 Sep 25 03:22	12° Y 55'30	4.48125 AU	direct	11490 May 14 23:36	27° R 47'33	
direct	11484 Nov 25 15:47	8° Y 03'08			11490 Jun 20 11:01	0° Z	
desc. node	11484 Dec 19 08:32	8° Y 52'53		asc. node	11490 Sep 17 05:04	17° Z 24'50	
evening set	11485 Mar 30 13:43	25° Y 20'10		evening set	11490 Sep 19 04:32	17° Z 53'21	
max. Earth dist.	11485 Apr 10 10:44	27° Y 41'51	6.43898 AU				
				conjunction	11490 Oct 02 17:25	21° Z 09'38	0°01'01
conjunction	11485 Apr 12 10:28	28° Y 07'52	-0°06'04	minimum elong	11490 Oct 02 17:25	21° Z 09'38	0°01'12
minimum elong	11485 Apr 12 10:28	28° Y 07'51	0°06'20	behind sun begin	11490 Oct 02 09:03	21° Z 04'35	
behind sun begin	11485 Apr 12 02:56	28° Y 03'46		behind sun end	11490 Oct 03 01:48	21° Z 14'41	
behind sun end	11485 Apr 12 18:00	28° Y 11'57		max. Earth dist.	11490 Oct 04 15:17	21° Z 37'23	5.93712 AU
	11485 Apr 21 00:21	0° Z		morning rise	11490 Oct 16 08:28	24° Z 26'49	
morning rise	11485 Apr 25 05:37	0° Z 54'58			11490 Nov 09 00:58	0° R	
	11485 Jul 10 20:02	15° Z		retrograde	11491 Feb 24 02:43	14° R 51'53	
retrograde	11485 Aug 25 01:50	18° Z 00'21		min. Earth dist.	11491 Apr 23 01:23	10° R 00'36	3.99282 AU
	11485 Oct 09 22:48	15° R Z		opposition	11491 Apr 24 13:52	9° R 48'12	0°20'57
opposition	11485 Oct 25 01:39	13° Z 07'06	-0°23'55	direct	11491 Jun 21 20:21	4° R 51'30	
min. Earth dist.	11485 Oct 26 14:59	12° Z 55'09	4.37891 AU		11491 Sep 14 16:44	15° R	
direct	11485 Dec 26 06:56	8° Z 06'46		evening set	11491 Oct 26 18:45	24° R 20'12	
	11486 Mar 07 17:58	15° Z					
evening set	11486 Apr 30 12:08	25° Z 56'43		conjunction	11491 Nov 09 09:24	27° R 31'06	0°24'47
max. Earth dist.	11486 May 11 00:31	28° Z 18'02	6.30439 AU	minimum elong	11491 Nov 09 09:23	27° R 31'05	0°25'22
				max. Earth dist.	11491 Nov 11 21:52	28° R 06'28	6.06676 AU
conjunction	11486 May 13 07:33	28° Z 48'59	-0°25'50		11491 Nov 20 00:20	0° Z	
minimum elong	11486 May 13 07:32	28° Z 48'59	0°26'25	morning rise	11491 Nov 23 00:52	0° Z 42'07	
	11486 May 18 13:45	0° II		retrograde	11492 Mar 29 23:24	19° Z 59'59	
morning rise	11486 May 26 01:57	1° II 41'06		min. Earth dist.	11492 May 27 05:45	15° Z 09'02	4.15097 AU
retrograde	11486 Sep 27 11:44	19° II 42'09		opposition	11492 May 28 18:52	14° Z 56'32	0°49'40
opposition	11486 Nov 27 02:18	14° II 48'23	-0°49'41	direct	11492 Jul 27 01:45	9° Z 57'48	
min. Earth dist.	11486 Nov 28 17:10	14° II 35'51	4.22006 AU	evening set	11492 Nov 30 11:12	28° Z 33'19	
direct	11487 Jan 27 08:46	9° II 49'29			11492 Dec 06 21:43	0° Z	
evening set	11487 Jun 02 02:28	28° II 28'57					
	11487 Jun 08 15:04	0° Z		conjunction	11492 Dec 13 23:30	1° Z 35'31	0°38'40
max. Earth dist.	11487 Jun 12 21:56	1° Z 00'03	6.13341 AU	minimum elong	11492 Dec 13 23:29	1° Z 35'31	0°39'24
				max. Earth dist.	11492 Dec 16 01:42	2° Z 03'45	6.23881 AU
conjunction	11487 Jun 14 23:01	1° Z 28'44	-0°38'42	morning rise	11492 Dec 27 11:41	4° Z 37'16	

retrograde	11493 May 01 03:30	22°  41'14		opposition	11498 Dec 01 16:30	19°  19'49	-0°52'10
min. Earth dist.	11493 Jun 29 08:49	17°  48'49	4.32139 AU	min. Earth dist.	11498 Dec 03 06:15	19°  07'36	4.19784 AU
opposition	11493 Jun 30 11:08	17°  40'05	0°59'58	direct	11499 Jan 31 18:27	14°  21'03	
direct	11493 Aug 30 00:33	12°  39'48			11499 May 24 00:12	0° 	
	11493 Dec 31 18:16	0° 		evening set	11499 Jun 06 14:36	3°  07'41	
evening set	11494 Jan 02 19:32	0°  26'37		max. Earth dist.	11499 Jun 17 13:19	5°  41'25	6.11000 AU
conjunction	11494 Jan 16 03:43	3°  20'38	0°39'47	conjunction	11499 Jun 19 11:40	6°  08'39	-0°39'30
minimum elong	11494 Jan 16 03:43	3°  20'38	0°40'25	minimum elong	11499 Jun 19 11:40	6°  08'38	0°40'15
max. Earth dist.	11494 Jan 17 06:47	3°  35'22	6.39469 AU	morning rise	11499 Jul 02 09:00	9°  08'08	
morning rise	11494 Jan 29 10:28	6°  13'46		retrograde	11499 Nov 07 14:48	28°  03'46	
	11494 Mar 13 13:23	15° 		opposition	11500 Jan 06 13:45	23°  40'05	-1°00'55
retrograde	11494 May 31 12:34	23°  20'42		min. Earth dist.	11500 Jan 07 14:37	23°  31'55	4.02734 AU
opposition	11494 Jul 31 06:19	18°  22'41	0°52'26	direct	11500 Mar 07 06:47	18°  43'27	
min. Earth dist.	11494 Jul 30 21:43	18°  25'29	4.45185 AU		11500 Jun 05 09:13	0° 	
	11494 Aug 28 20:24	15° 		evening set	11500 Jul 11 19:37	8°  23'23	
direct	11494 Sep 30 23:23	13°  21'41		conjunction	11500 Jul 24 21:32	11°  33'19	-0°37'37
	11494 Nov 03 10:41	15° 		minimum elong	11500 Jul 24 21:32	11°  33'19	0°38'12
	11495 Jan 31 08:43	0° 		max. Earth dist.	11500 Jul 24 01:42	11°  21'17	5.96009 AU
evening set	11495 Feb 03 05:23	0°  36'24		morning rise	11500 Aug 07 01:03	14°  04'20	
conjunction	11495 Feb 16 08:47	3°  24'50	0°29'46		11500 Aug 08 03:02	15° 	
minimum elong	11495 Feb 16 08:48	3°  24'50	0°30'10		11500 Oct 17 20:09	0° 	
max. Earth dist.	11495 Feb 16 05:20	3°  22'59	6.49055 AU	retrograde	11500 Dec 16 03:07	5°  16'34	
morning rise	11495 Mar 01 10:31	6°  12'20		opposition	11501 Feb 13 14:46	0°  18'04	-0°46'42
retrograde	11495 Jun 30 03:12	22°  24'36		min. Earth dist.	11501 Feb 13 14:32	0°  18'09	3.91400 AU
opposition	11495 Aug 30 03:27	17°  25'16	0°31'32		11501 Feb 15 20:54	30°  08'02	
min. Earth dist.	11495 Aug 30 15:08	17°  25'30	4.50799 AU	direct	11501 Apr 13 01:18	25°  23'02	
direct	11495 Oct 31 14:45	12°  25'00			11501 Jun 06 00:44	0° 	
evening set	11496 Mar 04 12:38	29°  25'55		evening set	11501 Aug 18 04:27	15°  23'01	
	11496 Mar 04 16:32	0° 					
max. Earth dist.	11496 Mar 16 06:33	2°  28'29	6.50294 AU	conjunction	11501 Aug 31 12:58	18°  23'14	-0°20'51
conjunction	11496 Mar 17 12:04	2°  28'29		minimum elong	11501 Aug 31 12:59	18°  23'15	0°21'03
minimum elong	11496 Mar 17 12:05	2°  28'29		max. Earth dist.	11501 Sep 01 07:11	19°  23'24	5.89513 AU
behind sun begin	11496 Mar 17 06:43	2°  28'29		morning rise	11501 Sep 13 23:48	22°  23'43	
behind sun end	11496 Mar 17 17:26	2°  28'29			11501 Oct 17 10:42	0° 	
morning rise	11496 Mar 30 09:25	5°  29'48		retrograde	11502 Jan 24 00:17	13°  23'41	
retrograde	11496 Jul 29 00:28	22°  29'57		min. Earth dist.	11502 Mar 23 06:55	8°  23'05	3.90594 AU
opposition	11496 Sep 28 03:56	17°  29'57	0°02'43	opposition	11502 Mar 24 07:08	8°  23'05	-0°12'36
min. Earth dist.	11496 Sep 29 07:57	17°  29'57	4.47640 AU	direct	11502 May 21 05:38	3°  23'05	
desc. node	11496 Nov 01 01:51	13°  29'57		asc. node	11502 Jul 28 21:32	10°  23'05	
direct	11496 Nov 29 18:31	12°  29'57		evening set	11502 Sep 25 11:28	23°  23'05	
evening set	11497 Apr 03 16:56	29°  29'57		conjunction	11502 Oct 09 01:09	26°  23'05	0°04'37
	11497 Apr 05 20:39	0° 		minimum elong	11502 Oct 09 01:08	26°  23'05	0°04'53
max. Earth dist.	11497 Apr 14 12:08	1°  23'02	6.42887 AU	behind sun begin	11502 Oct 08 16:59	26°  23'06	
conjunction	11497 Apr 16 13:17	2°  23'02	-0°08'52	behind sun end	11502 Oct 09 09:18	26°  23'06	
minimum elong	11497 Apr 16 13:17	2°  23'02	0°09'11	max. Earth dist.	11502 Oct 11 04:13	26°  23'06	5.94451 AU
behind sun begin	11497 Apr 16 06:32	2°  23'02		morning rise	11502 Oct 22 16:32	29°  23'06	
behind sun end	11497 Apr 16 20:02	2°  23'02			11502 Oct 23 17:37	0° 	
morning rise	11497 Apr 29 08:05	5°  23'02		retrograde	11503 Jan 03 06:37	15° 	
	11497 Jun 17 05:49	15° 		min. Earth dist.	11503 Mar 02 05:46	20°  23'02	
retrograde	11497 Aug 29 10:29	22°  23'02		opposition	11503 Apr 29 02:34	15°  23'02	4.00700 AU
opposition	11497 Oct 29 09:13	17°  23'02	-0°27'47		11503 Apr 30 16:15	15°  23'02	0°25'50
min. Earth dist.	11497 Oct 31 00:33	17°  23'02	4.36382 AU	direct	11503 Apr 30 18:54	15°  23'02	
	11497 Nov 17 21:59	15° 			11503 Jun 28 00:46	10°  23'02	
direct	11497 Dec 30 13:36	12°  23'02		evening set	11503 Aug 23 16:45	15° 	
	11498 Feb 10 19:34	15° 			11503 Nov 01 22:51	29°  23'02	
	11498 May 03 09:25	0° 			11503 Nov 04 07:12	0° 	
evening set	11498 May 04 18:10	0°  23'02		conjunction	11503 Nov 15 13:19	2°  23'02	0°27'25
max. Earth dist.	11498 May 15 04:18	2°  23'02	6.28518 AU	minimum elong	11503 Nov 15 13:18	2°  23'02	0°28'01
conjunction	11498 May 17 13:29	3°  23'02	-0°28'02	max. Earth dist.	11503 Nov 18 01:58	3°  23'02	6.08611 AU
minimum elong	11498 May 17 13:28	3°  23'02	0°28'39	morning rise	11503 Nov 29 04:44	5°  23'02	
morning rise	11498 May 30 08:07	6°  23'02		retrograde	11504 Apr 04 15:41	24°  23'02	
retrograde	11498 Oct 02 02:53	24°  23'02		min. Earth dist.	11504 Jun 02 00:03	20°  23'02	4.17341 AU
				opposition	11504 Jun 03 13:22	19°  23'02	0°52'13

direct	11504 Aug 01 23:28	14° ♄ 53'06		conjunction	11510 May 23 00:26	7° ♄ 46'47	-0°30'14
	11504 Nov 21 01:37	0° ♄		minimum elong	11510 May 23 00:26	7° ♄ 46'46	0°30'52
evening set	11504 Dec 06 08:00	3° ♄ 21'32		morning rise	11510 Jun 04 19:12	10° ♄ 40'47	
				retrograde	11510 Oct 08 02:14	29° ♄ 00'32	
conjunction	11504 Dec 19 19:53	6° ♄ 22'32	0°39'32	opposition	11510 Dec 07 12:49	24° ♄ 06'23	-0°54'31
minimum elong	11504 Dec 19 19:53	6° ♄ 22'32	0°40'16	min. Earth dist.	11510 Dec 09 02:41	23° ♄ 54'07	4.17182 AU
max. Earth dist.	11504 Dec 21 20:24	6° ♄ 49'42	6.26238 AU	direct	11511 Feb 06 11:10	19° ♄ 07'51	
morning rise	11505 Jan 02 07:16	9° ♄ 22'57			11511 May 07 09:39	0° ♄	
retrograde	11505 May 06 13:48	27° ♄ 17'23		evening set	11511 Jun 12 09:15	8° ♄ 02'47	
opposition	11505 Jul 05 22:19	22° ♄ 16'35	0°59'50	max. Earth dist.	11511 Jun 23 09:56	10° ♄ 38'35	6.08445 AU
min. Earth dist.	11505 Jul 04 22:13	22° ♄ 24'34	4.34376 AU				
direct	11505 Sep 04 16:23	17° ♄ 16'08		conjunction	11511 Jun 25 06:50	11° ♄ 05'05	-0°40'07
	11505 Dec 15 21:26	0° ♄		minimum elong	11511 Jun 25 06:50	11° ♄ 05'05	0°40'51
evening set	11506 Jan 08 08:31	4° ♄ 56'42		morning rise	11511 Jul 08 04:59	14° ♄ 08'02	
					11511 Sep 25 02:42	0° ♄	
conjunction	11506 Jan 21 15:54	7° ♄ 49'39	0°38'55	retrograde	11511 Nov 13 20:56	3° ♄ 44'55	
minimum elong	11506 Jan 21 15:55	7° ♄ 49'39	0°39'33		11512 Jan 03 16:55	30° ♄	
max. Earth dist.	11506 Jan 22 14:37	8° ♄ 01'58	6.41387 AU	opposition	11512 Jan 12 19:01	28° ♄ 48'54	-1°00'20
morning rise	11506 Feb 03 22:02	10° ♄ 41'45		min. Earth dist.	11512 Jan 13 16:06	28° ♄ 41'57	4.00472 AU
	11506 Feb 24 07:49	15° ♄		direct	11512 Mar 12 06:10	23° ♄ 52'32	
retrograde	11506 Jun 05 17:07	27° ♄ 42'10			11512 May 14 23:32	0° ♄	
opposition	11506 Aug 05 12:18	22° ♄ 44'28	0°50'06	evening set	11512 Jul 16 23:00	13° ♄ 39'38	
min. Earth dist.	11506 Aug 05 06:23	22° ♄ 46'24	4.46648 AU		11512 Jul 22 11:42	15° ♄	
direct	11506 Oct 06 08:20	17° ♄ 43'20		max. Earth dist.	11512 Jul 29 11:12	16° ♄ 41'55	5.94274 AU
	11507 Jan 15 19:27	0° ♄					
evening set	11507 Feb 08 12:39	4° ♄ 54'34		conjunction	11512 Jul 30 01:48	16° ♄ 50'48	-0°36'04
				minimum elong	11512 Jul 30 01:49	16° ♄ 50'49	0°36'37
conjunction	11507 Feb 21 15:33	7° ♄ 42'26	0°27'37	morning rise	11512 Aug 12 06:23	20° ♄ 03'08	
minimum elong	11507 Feb 21 15:34	7° ♄ 42'26	0°27'57		11512 Sep 24 15:20	0° ♄	
max. Earth dist.	11507 Feb 21 09:29	7° ♄ 39'11	6.49955 AU	retrograde	11512 Dec 21 16:04	10° ♄ 42'48	
morning rise	11507 Mar 06 16:25	10° ♄ 29'18		opposition	11513 Feb 19 01:57	5° ♄ 43'49	-0°42'47
retrograde	11507 Jul 05 05:58	27° ♄ 04'09		min. Earth dist.	11513 Feb 18 22:24	5° ♄ 45'01	3.90398 AU
opposition	11507 Sep 04 07:34	22° ♄ 09'06	0°27'47	direct	11513 Apr 18 10:21	0° ♄ 48'52	
min. Earth dist.	11507 Sep 04 21:26	22° ♄ 04'38	4.51079 AU	evening set	11513 Aug 23 14:00	21° ♄ 03'07	
direct	11507 Nov 05 19:57	17° ♄ 07'50					
	11508 Feb 18 12:31	0° ♄		conjunction	11513 Sep 05 23:35	24° ♄ 19'54	-0°17'30
evening set	11508 Mar 09 17:37	4° ♄ 12'40		minimum elong	11513 Sep 05 23:36	24° ♄ 19'54	0°17'38
max. Earth dist.	11508 Mar 21 06:23	6° ♄ 40'42	6.49920 AU	max. Earth dist.	11513 Sep 07 00:46	24° ♄ 35'20	5.89381 AU
				morning rise	11513 Sep 19 11:13	27° ♄ 37'49	
conjunction	11508 Mar 22 16:22	6° ♄ 58'56	0°09'18		11513 Sep 29 06:44	0° ♄	
minimum elong	11508 Mar 22 16:23	6° ♄ 58'56	0°09'18	retrograde	11514 Jan 29 10:54	18° ♄ 31'30	
behind sun begin	11508 Mar 22 09:40	6° ♄ 55'21		opposition	11514 Mar 29 17:03	13° ♄ 29'19	-0°06'56
behind sun end	11508 Mar 22 23:06	7° ♄ 02'31		min. Earth dist.	11514 Mar 28 13:59	13° ♄ 38'30	3.91379 AU
morning rise	11508 Apr 04 13:23	9° ♄ 44'25		direct	11514 May 26 15:23	8° ♄ 34'00	
retrograde	11508 Aug 03 08:10	26° ♄ 24'42		asc. node	11514 Jun 06 12:03	8° ♄ 46'12	
desc. node	11508 Sep 13 06:23	23° ♄ 58'15		evening set	11514 Sep 30 21:13	28° ♄ 34'53	
opposition	11508 Oct 03 10:18	21° ♄ 31'07	-0°01'38		11514 Oct 06 19:15	0° ♄	
min. Earth dist.	11508 Oct 04 17:24	21° ♄ 21'11	4.46624 AU				
direct	11508 Dec 05 01:14	16° ♄ 30'07		conjunction	11514 Oct 14 11:07	1° ♄ 50'30	0°08'15
	11509 Mar 21 19:17	0° ♄		minimum elong	11514 Oct 14 11:06	1° ♄ 50'30	0°08'35
evening set	11509 Apr 08 22:51	3° ♄ 52'14		behind sun begin	11514 Oct 14 03:50	1° ♄ 46'09	
max. Earth dist.	11509 Apr 19 15:26	6° ♄ 12'21	6.41290 AU	behind sun end	11514 Oct 14 18:22	1° ♄ 54'51	
				max. Earth dist.	11514 Oct 16 16:43	2° ♄ 22'42	5.96052 AU
conjunction	11509 Apr 21 19:01	6° ♄ 40'38	-0°11'47	morning rise	11514 Oct 28 02:56	5° ♄ 06'51	
minimum elong	11509 Apr 21 19:00	6° ♄ 40'38	0°12'10		11514 Dec 11 00:52	15° ♄	
behind sun begin	11509 Apr 21 13:35	6° ♄ 37'40		retrograde	11515 Mar 07 05:37	25° ♄ 17'18	
behind sun end	11509 Apr 22 00:25	6° ♄ 43'35		min. Earth dist.	11515 May 04 03:02	20° ♄ 26'45	4.02932 AU
morning rise	11509 May 04 13:36	9° ♄ 28'32		opposition	11515 May 05 18:29	20° ♄ 13'22	0°30'33
	11509 May 30 14:02	15° ♄		direct	11515 Jul 03 05:37	15° ♄ 16'06	
retrograde	11509 Sep 03 22:29	26° ♄ 45'05			11515 Oct 18 03:36	0° ♄	
opposition	11509 Nov 03 21:03	21° ♄ 51'45	-0°31'45	evening set	11515 Nov 07 02:02	4° ♄ 31'11	
min. Earth dist.	11509 Nov 05 12:14	21° ♄ 39'11	4.34297 AU				
direct	11510 Jan 04 21:20	16° ♄ 51'37		conjunction	11515 Nov 20 16:19	7° ♄ 39'49	0°29'52
	11510 Apr 17 23:47	0° ♄		minimum elong	11515 Nov 20 16:18	7° ♄ 39'48	0°30'31
evening set	11510 May 10 05:03	4° ♄ 52'48		max. Earth dist.	11515 Nov 23 04:29	8° ♄ 14'39	6.11257 AU
max. Earth dist.	11510 May 20 16:12	7° ♄ 14'50	6.26097 AU	morning rise	11515 Dec 04 07:12	10° ♄ 48'24	
				retrograde	11516 Apr 09 07:14	29° ♄ 44'46	

min. Earth dist.	11516 Jun 06 18:41	24° \mathbb{A} 53'33	4.20111 AU	morning rise	11521 May 08 19:54	13° \mathbb{C} 51'30	
opposition	11516 Jun 08 06:02	24° \mathbb{A} 41'40	0°54'24		11521 May 14 01:22	15° \mathbb{C}	
direct	11516 Aug 06 21:40	19° \mathbb{A} 42'22			11521 Aug 10 16:38	0° \mathbb{D}	
	11516 Nov 03 04:09	0° \mathbb{B}		retrograde	11521 Sep 08 15:06	1° \mathbb{D} 16'25	
evening set	11516 Dec 11 02:09	8° \mathbb{B} 02'14			11521 Oct 07 12:24	30° \mathbb{R} \mathbb{B}	
				opposition	11521 Nov 08 10:30	26° \mathbb{B} 23'05	-0°35'36
conjunction	11516 Dec 24 13:24	11° \mathbb{B} 01'50	0°40'10	min. Earth dist.	11521 Nov 10 03:06	26° \mathbb{B} 10'03	4.31807 AU
minimum elong	11516 Dec 24 13:24	11° \mathbb{B} 01'50	0°40'53	direct	11522 Jan 09 08:13	21° \mathbb{B} 23'09	
max. Earth dist.	11516 Dec 26 11:19	11° \mathbb{B} 27'23	6.28892 AU		11522 Mar 30 15:53	0° \mathbb{D}	
morning rise	11517 Jan 07 00:03	14° \mathbb{B} 00'50		evening set	11522 May 14 17:42	9° \mathbb{D} 32'23	
	11517 Apr 07 01:38	0° \mathbb{A}		max. Earth dist.	11522 May 25 05:19	11° \mathbb{D} 55'34	6.23367 AU
retrograde	11517 May 10 19:03	1° \mathbb{A} 45'17					
	11517 Jun 13 09:17	30° \mathbb{R} \mathbb{B}		conjunction	11522 May 27 13:21	12° \mathbb{D} 27'34	-0°32'16
min. Earth dist.	11517 Jul 09 08:11	26° \mathbb{B} 52'17	4.36717 AU	minimum elong	11522 May 27 13:20	12° \mathbb{D} 27'34	0°32'57
opposition	11517 Jul 10 06:32	26° \mathbb{B} 44'54	0°59'21	morning rise	11522 Jun 09 08:26	15° \mathbb{D} 22'50	
direct	11517 Sep 09 03:57	21° \mathbb{B} 44'19			11522 Aug 22 18:12	0° \mathbb{B}	
	11517 Nov 27 14:25	0° \mathbb{A}		retrograde	11522 Oct 13 02:12	3° \mathbb{B} 54'05	
evening set	11518 Jan 12 18:40	9° \mathbb{A} 18'48			11522 Dec 04 16:53	30° \mathbb{R} \mathbb{D}	
				opposition	11522 Dec 12 11:45	28° \mathbb{D} 59'46	-0°56'33
conjunction	11518 Jan 26 01:24	12° \mathbb{A} 10'45	0°37'52	min. Earth dist.	11522 Dec 13 23:03	28° \mathbb{D} 48'18	4.14439 AU
minimum elong	11518 Jan 26 01:25	12° \mathbb{A} 10'45	0°38'28	direct	11523 Feb 11 03:39	24° \mathbb{D} 01'36	
max. Earth dist.	11518 Jan 26 19:46	12° \mathbb{A} 20'41	6.43250 AU		11523 Apr 16 05:15	0° \mathbb{B}	
morning rise	11518 Feb 08 06:39	15° \mathbb{A} 01'48		evening set	11523 Jun 17 06:33	13° \mathbb{B} 05'21	
	11518 Feb 08 03:18	15° \mathbb{A}		max. Earth dist.	11523 Jun 28 11:52	15° \mathbb{B} 44'47	6.05935 AU
	11518 May 04 22:13	0° \mathbb{H}					
retrograde	11518 Jun 09 20:10	1° \mathbb{H} 56'20		conjunction	11523 Jun 30 04:41	16° \mathbb{B} 09'02	-0°40'27
	11518 Jul 15 14:55	30° \mathbb{R} \mathbb{A}		minimum elong	11523 Jun 30 04:41	16° \mathbb{B} 09'02	0°41'10
opposition	11518 Aug 09 15:51	26° \mathbb{A} 59'07	0°47'34	morning rise	11523 Jul 13 03:36	19° \mathbb{B} 13'26	
min. Earth dist.	11518 Aug 09 13:28	26° \mathbb{A} 59'53	4.47914 AU		11523 Aug 30 20:40	0° \mathbb{D}	
direct	11518 Oct 10 15:45	21° \mathbb{A} 57'58		retrograde	11523 Nov 19 07:42	9° \mathbb{D} 01'26	
	11518 Dec 28 19:50	0° \mathbb{H}		opposition	11524 Jan 18 03:03	4° \mathbb{D} 05'03	-0°59'15
evening set	11519 Feb 12 17:44	9° \mathbb{H} 06'38		min. Earth dist.	11524 Jan 18 21:11	3° \mathbb{D} 59'03	3.98444 AU
					11524 Feb 23 16:51	30° \mathbb{R} \mathbb{B}	
conjunction	11519 Feb 25 19:55	11° \mathbb{H} 54'01	0°25'22	direct	11524 Mar 17 10:47	29° \mathbb{B} 08'58	
minimum elong	11519 Feb 25 19:56	11° \mathbb{H} 54'02	0°25'39		11524 Apr 09 01:36	0° \mathbb{D}	
max. Earth dist.	11519 Feb 25 08:09	11° \mathbb{H} 47'44	6.50524 AU		11524 Jul 05 07:12	15° \mathbb{D}	
morning rise	11519 Mar 10 20:19	14° \mathbb{H} 40'30		evening set	11524 Jul 22 04:38	19° \mathbb{D} 02'03	
	11519 Jun 10 17:59	0° \mathbb{Y}					
retrograde	11519 Jul 09 09:03	1° \mathbb{Y} 14'20		conjunction	11524 Aug 04 08:29	22° \mathbb{D} 14'19	-0°34'11
	11519 Aug 06 21:53	30° \mathbb{R} \mathbb{H}		minimum elong	11524 Aug 04 08:30	22° \mathbb{D} 14'20	0°34'42
opposition	11519 Sep 08 10:32	26° \mathbb{H} 19'34	0°23'57	max. Earth dist.	11524 Aug 04 00:27	22° \mathbb{D} 09'25	5.92949 AU
min. Earth dist.	11519 Sep 09 03:31	26° \mathbb{H} 14'07	4.50936 AU	morning rise	11524 Aug 17 14:01	25° \mathbb{D} 27'44	
direct	11519 Nov 09 23:46	21° \mathbb{H} 18'18			11524 Sep 05 14:30	0° \mathbb{D}	
	11520 Feb 01 00:58	0° \mathbb{Y}		retrograde	11524 Dec 27 05:16	16° \mathbb{D} 12'27	
evening set	11520 Mar 13 21:19	8° \mathbb{Y} 24'31		opposition	11525 Feb 24 13:45	11° \mathbb{D} 13'00	-0°38'27
max. Earth dist.	11520 Mar 25 07:26	10° \mathbb{Y} 51'24	6.49070 AU	min. Earth dist.	11525 Feb 24 06:16	11° \mathbb{D} 15'30	3.89957 AU
				direct	11525 Apr 23 18:42	6° \mathbb{D} 18'08	
conjunction	11520 Mar 26 19:48	11° \mathbb{Y} 10'57	0°06'26	evening set	11525 Aug 28 23:58	26° \mathbb{D} 32'16	
minimum elong	11520 Mar 26 19:48	11° \mathbb{Y} 10'58	0°06'22				
behind sun begin	11520 Mar 26 12:16	11° \mathbb{Y} 06'56		conjunction	11525 Sep 11 10:09	29° \mathbb{D} 49'10	-0°14'01
behind sun end	11520 Mar 27 03:21	11° \mathbb{Y} 15'00		minimum elong	11525 Sep 11 10:10	29° \mathbb{D} 49'10	0°14'06
morning rise	11520 Apr 08 16:14	13° \mathbb{Y} 56'36		behind sun begin	11525 Sep 11 06:05	29° \mathbb{D} 46'41	
	11520 Jul 17 13:06	0° \mathbb{B}		behind sun end	11525 Sep 11 14:15	29° \mathbb{D} 51'40	
desc. node	11520 Jul 25 18:25	0° \mathbb{B} 25'28			11525 Sep 12 03:52	0° \mathbb{B}	
retrograde	11520 Aug 07 14:10	0° \mathbb{B} 40'44		max. Earth dist.	11525 Sep 12 15:21	0° \mathbb{B} 07'02	5.89833 AU
	11520 Aug 28 15:10	30° \mathbb{R} \mathbb{Y}		morning rise	11525 Sep 24 22:45	3° \mathbb{B} 07'14	
opposition	11520 Oct 07 16:29	25° \mathbb{Y} 47'19	-0°05'57	retrograde	11526 Feb 03 17:27	23° \mathbb{B} 56'55	
min. Earth dist.	11520 Oct 09 00:55	25° \mathbb{Y} 36'58	4.45125 AU	min. Earth dist.	11526 Apr 02 18:55	19° \mathbb{B} 04'37	3.92666 AU
direct	11520 Dec 09 05:02	20° \mathbb{Y} 46'28		opposition	11526 Apr 04 01:16	18° \mathbb{B} 54'19	-0°01'17
	11521 Mar 04 08:29	0° \mathbb{B}		asc. node	11526 Apr 16 16:37	17° \mathbb{B} 13'39	
evening set	11521 Apr 13 05:29	8° \mathbb{B} 13'43		direct	11526 Jun 01 00:19	13° \mathbb{B} 58'43	
max. Earth dist.	11521 Apr 23 19:31	10° \mathbb{B} 33'09	6.39235 AU		11526 Sep 19 15:07	0° \mathbb{D}	
				evening set	11526 Oct 06 04:46	3° \mathbb{D} 53'39	
conjunction	11521 Apr 26 01:19	11° \mathbb{B} 02'49	-0°14'38				
minimum elong	11521 Apr 26 01:19	11° \mathbb{B} 02'48	0°15'04	conjunction	11526 Oct 19 18:58	7° \mathbb{D} 08'27	0°11'46
behind sun begin	11521 Apr 25 22:22	11° \mathbb{B} 01'11		minimum elong	11526 Oct 19 18:57	7° \mathbb{D} 08'26	0°12'10
behind sun end	11521 Apr 26 04:15	11° \mathbb{B} 04'25		behind sun begin	11526 Oct 19 13:23	7° \mathbb{D} 05'07	

behind sun end	11526 Oct 20 00:32	7° \mathbb{M} 11'45		conjunction	11532 Mar 31 00:44	15° \mathbb{Y} 26'59	0°03'28
max. Earth dist.	11526 Oct 22 02:58	7° \mathbb{M} 41'56	5.98022 AU	minimum elong	11532 Mar 31 00:43	15° \mathbb{Y} 26'59	0°03'20
morning rise	11526 Nov 02 10:46	10° \mathbb{M} 23'49		behind sun begin	11532 Mar 30 16:47	15° \mathbb{Y} 22'43	
	11526 Nov 22 05:33	15° \mathbb{M}		behind sun end	11532 Mar 31 08:40	15° \mathbb{Y} 31'15	
	11527 Feb 24 14:40	0° \mathbb{A}		morning rise	11532 Apr 12 20:59	18° \mathbb{Y} 12'57	
retrograde	11527 Mar 12 04:31	0° \mathbb{A} 24'04		desc. node	11532 Jun 04 04:55	28° \mathbb{Y} 32'33	
	11527 Mar 27 15:05	30° \mathbb{R} \mathbb{M}			11532 Jun 13 05:05	0° \mathbb{B}	
min. Earth dist.	11527 May 09 03:24	25° \mathbb{M} 33'12	4.05337 AU	retrograde	11532 Aug 12 00:32	5° \mathbb{B} 01'40	
opposition	11527 May 10 18:08	25° \mathbb{M} 20'04	0°34'57	opposition	11532 Oct 12 01:14	0° \mathbb{B} 08'21	-0°10'21
direct	11527 Jul 08 09:39	20° \mathbb{M} 22'28		min. Earth dist.	11532 Oct 13 11:31	29° \mathbb{Y} 57'23	4.43465 AU
	11527 Sep 29 11:13	0° \mathbb{A}			11532 Oct 13 03:19	30° \mathbb{R} \mathbb{Y}	
evening set	11527 Nov 12 02:33	9° \mathbb{A} 29'06		direct	11532 Dec 13 12:41	25° \mathbb{Y} 07'35	
					11533 Feb 11 01:32	0° \mathbb{B}	
conjunction	11527 Nov 25 16:34	12° \mathbb{A} 36'25	0°32'03	evening set	11533 Apr 17 13:54	12° \mathbb{B} 40'12	
minimum elong	11527 Nov 25 16:33	12° \mathbb{A} 36'25	0°32'45	max. Earth dist.	11533 Apr 28 03:58	15° \mathbb{B} 00'17	6.37154 AU
max. Earth dist.	11527 Nov 28 04:31	13° \mathbb{A} 10'54	6.13866 AU		11533 Apr 28 03:28	15° \mathbb{B}	
morning rise	11527 Dec 09 06:57	15° \mathbb{A} 43'35					
	11528 Feb 18 22:19	0° \mathbb{B}		conjunction	11533 Apr 30 09:46	15° \mathbb{B} 30'04	-0°17'29
retrograde	11528 Apr 13 18:20	4° \mathbb{B} 28'38		minimum elong	11533 Apr 30 09:45	15° \mathbb{B} 30'03	0°17'57
	11528 Jun 08 13:52	30° \mathbb{R} \mathbb{A}		morning rise	11533 May 13 04:09	18° \mathbb{B} 19'31	
min. Earth dist.	11528 Jun 11 09:21	29° \mathbb{A} 37'26	4.22691 AU		11533 Jul 10 14:40	0° \mathbb{I}	
opposition	11528 Jun 12 20:00	29° \mathbb{A} 25'50	0°56'12	retrograde	11533 Sep 13 07:19	5° \mathbb{I} 52'51	
direct	11528 Aug 11 14:57	24° \mathbb{A} 26'18		opposition	11533 Nov 13 02:29	0° \mathbb{I} 59'30	-0°39'20
	11528 Oct 13 00:49	0° \mathbb{B}		min. Earth dist.	11533 Nov 14 18:16	0° \mathbb{I} 46'43	4.29461 AU
evening set	11528 Dec 15 18:19	12° \mathbb{B} 38'39			11533 Nov 20 20:54	30° \mathbb{R} \mathbb{B}	
				direct	11534 Jan 13 19:40	25° \mathbb{B} 59'54	
conjunction	11528 Dec 29 04:53	15° \mathbb{B} 37'00	0°40'32		11534 Mar 07 10:48	0° \mathbb{I}	
minimum elong	11528 Dec 29 04:53	15° \mathbb{B} 37'00	0°41'16	evening set	11534 May 19 08:30	14° \mathbb{I} 16'26	
max. Earth dist.	11528 Dec 30 22:04	15° \mathbb{B} 59'48	6.31242 AU	max. Earth dist.	11534 May 29 21:41	16° \mathbb{I} 41'20	6.20959 AU
morning rise	11529 Jan 11 14:51	18° \mathbb{B} 34'43					
	11529 Mar 09 19:18	0° \approx		conjunction	11534 Jun 01 04:10	17° \mathbb{I} 12'39	-0°34'09
retrograde	11529 May 15 01:48	6° \approx 10'37		minimum elong	11534 Jun 01 04:09	17° \mathbb{I} 12'38	0°34'51
opposition	11529 Jul 14 13:50	1° \approx 10'40	0°58'34	morning rise	11534 Jun 13 23:39	20° \mathbb{I} 09'04	
min. Earth dist.	11529 Jul 13 19:09	1° \approx 16'49	4.38667 AU		11534 Jul 29 19:16	0° \mathbb{E}	
	11529 Jul 23 14:31	30° \mathbb{R} \mathbb{B}		retrograde	11534 Oct 18 05:12	8° \mathbb{E} 50'38	
direct	11529 Sep 13 16:44	26° \mathbb{B} 09'55		opposition	11534 Dec 17 12:26	3° \mathbb{E} 56'07	-0°58'15
	11529 Nov 04 15:43	0° \approx		min. Earth dist.	11534 Dec 18 22:02	3° \mathbb{E} 45'11	4.12167 AU
evening set	11530 Jan 17 03:49	13° \approx 39'33			11535 Jan 21 12:58	30° \mathbb{R} \mathbb{I}	
	11530 Jan 23 09:39	15° \approx		direct	11535 Feb 16 01:10	28° \mathbb{I} 58'18	
					11535 Mar 13 10:34	0° \mathbb{E}	
conjunction	11530 Jan 30 09:58	16° \approx 30'42	0°36'38	evening set	11535 Jun 22 04:37	18° \mathbb{E} 08'52	
minimum elong	11530 Jan 30 09:59	16° \approx 30'43	0°37'11	max. Earth dist.	11535 Jul 03 15:30	20° \mathbb{E} 52'15	6.04034 AU
max. Earth dist.	11530 Jan 31 00:26	16° \approx 38'30	6.44662 AU				
morning rise	11530 Feb 12 14:31	19° \approx 20'57		conjunction	11535 Jul 05 03:27	21° \mathbb{E} 13'41	-0°40'31
	11530 Apr 08 00:44	0° \mathbb{H}		minimum elong	11535 Jul 05 03:27	21° \mathbb{E} 13'41	0°41'13
retrograde	11530 Jun 13 21:48	6° \mathbb{H} 11'07		morning rise	11535 Jul 18 03:00	24° \mathbb{E} 19'15	
opposition	11530 Aug 13 19:42	1° \mathbb{H} 14'15	0°44'49		11535 Aug 11 14:54	0° \mathbb{Q}	
min. Earth dist.	11530 Aug 13 19:32	1° \mathbb{H} 14'18	4.48728 AU	retrograde	11535 Nov 24 16:33	14° \mathbb{Q} 15'36	
	11530 Aug 23 11:25	30° \mathbb{R} \approx		opposition	11536 Jan 23 10:22	9° \mathbb{Q} 18'53	-0°57'44
direct	11530 Oct 14 21:17	26° \approx 13'02		min. Earth dist.	11536 Jan 24 00:44	9° \mathbb{Q} 14'08	3.97135 AU
	11530 Dec 06 04:22	0° \mathbb{H}		direct	11536 Mar 22 13:32	4° \mathbb{Q} 23'08	
evening set	11531 Feb 16 23:18	13° \mathbb{H} 20'22			11536 Jun 16 22:35	15° \mathbb{Q}	
max. Earth dist.	11531 Mar 01 09:54	15° \mathbb{H} 59'26	6.50692 AU	evening set	11536 Jul 27 08:49	24° \mathbb{Q} 19'21	
conjunction	11531 Mar 02 00:59	16° \mathbb{H} 07'29	0°22'58	conjunction	11536 Aug 09 13:17	27° \mathbb{Q} 32'15	-0°32'07
minimum elong	11531 Mar 02 01:00	16° \mathbb{H} 07'29	0°23'13	minimum elong	11536 Aug 09 13:18	27° \mathbb{Q} 32'16	0°32'33
morning rise	11531 Mar 15 00:41	18° \mathbb{H} 53'40		max. Earth dist.	11536 Aug 09 09:33	27° \mathbb{Q} 29'59	5.92353 AU
	11531 May 11 20:56	0° \mathbb{Y}			11536 Aug 19 15:28	0° \mathbb{P}	
retrograde	11531 Jul 13 13:12	5° \mathbb{Y} 27'36		morning rise	11536 Aug 22 19:53	0° \mathbb{P} 46'25	
opposition	11531 Sep 12 14:52	0° \mathbb{Y} 33'07	0°19'57	retrograde	11537 Jan 01 12:15	21° \mathbb{P} 33'09	
min. Earth dist.	11531 Sep 13 10:40	0° \mathbb{Y} 26'47	4.50454 AU	opposition	11537 Mar 01 22:06	16° \mathbb{P} 33'12	-0°33'58
	11531 Sep 16 22:25	30° \mathbb{R} \mathbb{H}		min. Earth dist.	11537 Mar 01 10:24	16° \mathbb{P} 37'08	3.90157 AU
direct	11531 Nov 14 05:19	25° \mathbb{H} 31'55		direct	11537 Apr 29 01:26	11° \mathbb{P} 38'22	
	11532 Jan 10 12:25	0° \mathbb{Y}			11537 Aug 26 15:24	0° \mathbb{A}	
evening set	11532 Mar 18 02:47	12° \mathbb{Y} 40'18		evening set	11537 Sep 03 05:46	1° \mathbb{A} 50'06	
max. Earth dist.	11532 Mar 29 07:57	15° \mathbb{Y} 05'00	6.47964 AU				
				conjunction	11537 Sep 16 16:42	5° \mathbb{A} 06'50	-0°10'35

minimum elong	11537 Sep 16 16:43	5° <u>♂</u> 06'50	0°10'36	minimum elong	11543 Mar 06 04:46	20° <u>♂</u> 19'10	0°20'44
behind sun begin	11537 Sep 16 10:15	5° <u>♂</u> 02'55		morning rise	11543 Mar 19 04:00	23° <u>♂</u> 05'15	
behind sun end	11537 Sep 16 23:10	5° <u>♂</u> 10'46			11543 Apr 22 02:11	0° <u>♂</u>	
max. Earth dist.	11537 Sep 18 03:00	5° <u>♂</u> 27'46	5.90812 AU	retrograde	11543 Jul 17 16:36	9° <u>♂</u> 40'22	
morning rise	11537 Sep 30 05:43	8° <u>♂</u> 24'39		opposition	11543 Sep 16 18:48	4° <u>♂</u> 46'03	0°15'56
retrograde	11538 Feb 08 20:28	29° <u>♂</u> 08'30		min. Earth dist.	11543 Sep 17 15:59	4° <u>♂</u> 39'16	4.49746 AU
asc. node	11538 Feb 27 15:04	28° <u>♂</u> 32'56			11543 Nov 05 10:50	30° <u>♂</u>	
min. Earth dist.	11538 Apr 07 21:00	24° <u>♂</u> 16'12	3.94298 AU	direct	11543 Nov 18 08:50	29° <u>♂</u> 44'53	
opposition	11538 Apr 09 04:07	24° <u>♂</u> 05'38	0°04'06		11543 Dec 01 09:01	0° <u>♂</u>	
direct	11538 Jun 06 05:49	19° <u>♂</u> 09'50		evening set	11544 Mar 22 07:24	16° <u>♂</u> 55'54	
	11538 Sep 01 16:54	0° <u>♂</u>		max. Earth dist.	11544 Apr 02 11:38	19° <u>♂</u> 20'28	6.46772 AU
evening set	11538 Oct 11 07:00	8° <u>♂</u> 58'04					
conjunction	11538 Oct 24 21:21	12° <u>♂</u> 11'55	0°15'02	conjunction	11544 Apr 04 05:06	19° <u>♂</u> 42'53	0°00'29
minimum elong	11538 Oct 24 21:20	12° <u>♂</u> 11'55	0°15'28	minimum elong	11544 Apr 04 05:04	19° <u>♂</u> 42'53	0°00'17
behind sun begin	11538 Oct 24 19:22	12° <u>♂</u> 10'45		behind sun begin	11544 Apr 03 21:07	19° <u>♂</u> 38'36	
behind sun end	11538 Oct 24 23:19	12° <u>♂</u> 13'05		behind sun end	11544 Apr 04 13:02	19° <u>♂</u> 47'10	
max. Earth dist.	11538 Oct 27 07:16	12° <u>♂</u> 46'22	6.00126 AU	desc. node	11544 Apr 13 07:03	21° <u>♂</u> 40'47	
	11538 Nov 05 16:39	15° <u>♂</u>		morning rise	11544 Apr 17 00:50	22° <u>♂</u> 29'08	
morning rise	11538 Nov 07 13:09	15° <u>♂</u> 26'16			11544 May 23 14:41	0° <u>♂</u>	
	11539 Jan 16 11:11	0° <u>♂</u>		retrograde	11544 Aug 16 08:46	9° <u>♂</u> 22'35	
retrograde	11539 Mar 16 20:07	5° <u>♂</u> 16'15		opposition	11544 Oct 16 09:34	4° <u>♂</u> 29'18	-0°14'39
min. Earth dist.	11539 May 13 20:43	0° <u>♂</u> 25'38	4.07695 AU	min. Earth dist.	11544 Oct 17 20:59	4° <u>♂</u> 17'59	4.41855 AU
opposition	11539 May 15 11:51	0° <u>♂</u> 12'23	0°38'52		11544 Nov 29 05:06	30° <u>♂</u>	
	11539 May 17 00:29	30° <u>♂</u>		direct	11544 Dec 17 19:43	29° <u>♂</u> 28'40	
direct	11539 Jul 13 05:39	25° <u>♂</u> 14'34			11545 Jan 05 11:22	0° <u>♂</u>	
	11539 Sep 07 08:25	0° <u>♂</u>			11545 Apr 12 06:50	15° <u>♂</u>	
evening set	11539 Nov 16 21:42	14° <u>♂</u> 13'36		evening set	11545 Apr 21 21:52	17° <u>♂</u> 06'11	
				max. Earth dist.	11545 May 02 09:56	19° <u>♂</u> 25'49	6.35217 AU
conjunction	11539 Nov 30 11:16	17° <u>♂</u> 19'40	0°33'57	conjunction	11545 May 04 17:23	19° <u>♂</u> 56'40	-0°20'11
minimum elong	11539 Nov 30 11:15	17° <u>♂</u> 19'40	0°34'39	minimum elong	11545 May 04 17:23	19° <u>♂</u> 56'40	0°20'41
max. Earth dist.	11539 Dec 02 19:36	17° <u>♂</u> 51'55	6.16255 AU	morning rise	11545 May 17 11:54	22° <u>♂</u> 46'54	
morning rise	11539 Dec 14 01:17	20° <u>♂</u> 25'35			11545 Jun 20 10:21	0° <u>♂</u>	
	11540 Jan 27 22:44	0° <u>♂</u>		retrograde	11545 Sep 17 23:43	10° <u>♂</u> 28'01	
retrograde	11540 Apr 18 03:03	9° <u>♂</u> 00'56		opposition	11545 Nov 17 17:32	5° <u>♂</u> 34'28	-0°42'46
min. Earth dist.	11540 Jun 15 21:52	4° <u>♂</u> 09'09	4.24906 AU	min. Earth dist.	11545 Nov 19 09:07	5° <u>♂</u> 21'44	4.27295 AU
opposition	11540 Jun 17 05:40	3° <u>♂</u> 58'31	0°57'37	direct	11546 Jan 18 08:15	0° <u>♂</u> 34'59	
	11540 Jul 21 22:57	30° <u>♂</u>		evening set	11546 May 23 21:42	18° <u>♂</u> 58'00	
direct	11540 Aug 16 05:49	28° <u>♂</u> 58'48		max. Earth dist.	11546 Jun 03 13:40	21° <u>♂</u> 25'11	6.18718 AU
	11540 Sep 10 17:48	0° <u>♂</u>					
evening set	11540 Dec 20 06:04	17° <u>♂</u> 05'14		conjunction	11546 Jun 05 17:45	21° <u>♂</u> 55'15	-0°35'46
				minimum elong	11546 Jun 05 17:44	21° <u>♂</u> 55'15	0°36'29
conjunction	11541 Jan 02 16:16	20° <u>♂</u> 02'37	0°40'42	morning rise	11546 Jun 18 13:27	24° <u>♂</u> 52'44	
minimum elong	11541 Jan 02 16:16	20° <u>♂</u> 02'37	0°41'25		11546 Jul 11 07:49	0° <u>♂</u>	
max. Earth dist.	11541 Jan 04 07:05	20° <u>♂</u> 24'02	6.33130 AU	retrograde	11546 Oct 23 05:28	13° <u>♂</u> 43'54	
morning rise	11541 Jan 16 01:26	22° <u>♂</u> 59'17		opposition	11546 Dec 22 11:22	8° <u>♂</u> 49'07	-0°59'29
	11541 Feb 18 10:26	0° <u>♂</u>		min. Earth dist.	11546 Dec 23 19:04	8° <u>♂</u> 38'48	4.10020 AU
retrograde	11541 May 19 03:48	10° <u>♂</u> 28'33		direct	11547 Feb 20 19:26	3° <u>♂</u> 51'34	
opposition	11541 Jul 18 17:56	5° <u>♂</u> 29'07	0°57'34	evening set	11547 Jun 27 00:59	23° <u>♂</u> 08'35	
min. Earth dist.	11541 Jul 18 00:57	5° <u>♂</u> 34'41	4.40124 AU	max. Earth dist.	11547 Jul 08 14:47	25° <u>♂</u> 54'26	6.02152 AU
direct	11541 Sep 17 23:19	0° <u>♂</u> 28'21					
	11542 Jan 07 15:31	15° <u>♂</u>		conjunction	11547 Jul 10 00:15	26° <u>♂</u> 14'29	-0°40'15
evening set	11542 Jan 21 10:38	17° <u>♂</u> 54'56		minimum elong	11547 Jul 10 00:16	26° <u>♂</u> 14'29	0°40'57
				morning rise	11547 Jul 23 00:46	29° <u>♂</u> 21'17	
conjunction	11542 Feb 03 16:07	20° <u>♂</u> 45'29	0°35'16		11547 Jul 25 17:55	0° <u>♂</u>	
minimum elong	11542 Feb 03 16:07	20° <u>♂</u> 45'30	0°35'47		11547 Oct 06 17:07	15° <u>♂</u>	
max. Earth dist.	11542 Feb 04 01:31	20° <u>♂</u> 50'33	6.45603 AU	retrograde	11547 Nov 29 22:34	19° <u>♂</u> 26'07	
morning rise	11542 Feb 16 20:05	23° <u>♂</u> 35'09			11548 Jan 24 17:55	15° <u>♂</u>	
	11542 Mar 19 23:32	0° <u>♂</u>		opposition	11548 Jan 28 15:43	14° <u>♂</u> 28'56	-0°55'44
retrograde	11542 Jun 18 00:42	10° <u>♂</u> 22'35		min. Earth dist.	11548 Jan 29 02:27	14° <u>♂</u> 25'22	3.95705 AU
opposition	11542 Aug 17 22:07	5° <u>♂</u> 26'08	0°41'57	direct	11548 Mar 27 14:52	9° <u>♂</u> 33'18	
min. Earth dist.	11542 Aug 18 01:29	5° <u>♂</u> 25'03	4.49122 AU		11548 May 25 23:25	15° <u>♂</u>	
direct	11542 Oct 19 03:00	0° <u>♂</u> 24'55		evening set	11548 Aug 01 11:41	29° <u>♂</u> 33'26	
evening set	11543 Feb 21 03:32	17° <u>♂</u> 32'09			11548 Aug 03 07:25	0° <u>♂</u>	
max. Earth dist.	11543 Mar 05 09:51	20° <u>♂</u> 09'03	6.50515 AU				
conjunction	11543 Mar 06 04:45	20° <u>♂</u> 19'09	0°20'32	conjunction	11548 Aug 14 17:13	2° <u>♂</u> 47'11	-0°29'45
				minimum elong	11548 Aug 14 17:14	2° <u>♂</u> 47'12	0°30'09

max. Earth dist.	11548 Aug 14 19:46	2° \mathbb{M} 48'45	5.91537 AU	min. Earth dist.	11554 Aug 22 06:24	9° \mathbb{H} 38'27	4.49984 AU
morning rise	11548 Aug 28 00:37	6° \mathbb{M} 02'08		direct	11554 Oct 23 08:03	4° \mathbb{H} 38'47	
retrograde	11549 Jan 06 21:22	26° \mathbb{M} 51'45		evening set	11555 Feb 25 08:12	21° \mathbb{H} 44'09	
opposition	11549 Mar 07 05:18	21° \mathbb{M} 51'21	-0°29'10	max. Earth dist.	11555 Mar 09 10:35	24° \mathbb{H} 18'56	6.50889 AU
min. Earth dist.	11549 Mar 06 15:30	21° \mathbb{M} 56'00	3.90058 AU				
direct	11549 May 04 07:54	16° \mathbb{M} 56'26		conjunction	11555 Mar 10 08:43	24° \mathbb{H} 30'45	0°18'00
	11549 Aug 09 04:43	0° \mathbb{L}		minimum elong	11555 Mar 10 08:43	24° \mathbb{H} 30'46	0°18'09
evening set	11549 Sep 08 11:42	7° \mathbb{L} 07'15		morning rise	11555 Mar 23 07:22	27° \mathbb{H} 16'29	
					11555 Apr 05 06:43	0° \mathbb{Y}	
conjunction	11549 Sep 21 23:20	10° \mathbb{L} 24'01	-0°07'02	retrograde	11555 Jul 21 20:09	13° \mathbb{Y} 51'01	
minimum elong	11549 Sep 21 23:20	10° \mathbb{L} 24'02	0°06'58	opposition	11555 Sep 20 22:26	8° \mathbb{Y} 56'58	0°11'55
behind sun begin	11549 Sep 21 15:36	10° \mathbb{L} 19'20		min. Earth dist.	11555 Sep 21 22:33	8° \mathbb{Y} 49'15	4.49600 AU
behind sun end	11549 Sep 22 07:04	10° \mathbb{L} 28'43		direct	11555 Nov 22 14:28	3° \mathbb{Y} 55'51	
max. Earth dist.	11549 Sep 23 13:42	10° \mathbb{L} 47'23	5.91426 AU	desc. node	11556 Feb 22 09:48	14° \mathbb{Y} 19'20	
morning rise	11549 Oct 05 13:07	13° \mathbb{L} 41'50		evening set	11556 Mar 26 10:47	21° \mathbb{Y} 07'39	
	11549 Dec 22 17:31	0° \mathbb{M}		max. Earth dist.	11556 Apr 06 11:06	23° \mathbb{Y} 30'24	6.46103 AU
asc. node	11550 Jan 09 06:32	2° \mathbb{M} 18'37					
retrograde	11550 Feb 13 22:39	4° \mathbb{M} 21'09		conjunction	11556 Apr 08 07:58	23° \mathbb{Y} 54'42	-0°02'26
	11550 Apr 09 03:09	30° \mathbb{R} \mathbb{L}		minimum elong	11556 Apr 08 07:57	23° \mathbb{Y} 54'42	0°02'40
min. Earth dist.	11550 Apr 12 21:33	29° \mathbb{L} 29'26	3.95565 AU	behind sun begin	11556 Apr 07 23:59	23° \mathbb{Y} 50'24	
opposition	11550 Apr 14 07:12	29° \mathbb{L} 18'00	0°09'29	behind sun end	11556 Apr 08 15:56	23° \mathbb{Y} 59'00	
direct	11550 Jun 11 08:40	24° \mathbb{L} 21'58		morning rise	11556 Apr 21 03:26	26° \mathbb{Y} 41'05	
	11550 Aug 10 21:07	0° \mathbb{M}			11556 May 06 17:36	0° \mathbb{B}	
evening set	11550 Oct 16 10:38	14° \mathbb{M} 05'02		retrograde	11556 Aug 20 14:44	13° \mathbb{B} 37'47	
	11550 Oct 20 07:48	15° \mathbb{M}		opposition	11556 Oct 20 15:57	8° \mathbb{B} 44'30	-0°18'41
				min. Earth dist.	11556 Oct 22 04:10	8° \mathbb{B} 32'54	4.40684 AU
conjunction	11550 Oct 30 01:02	17° \mathbb{M} 18'06	0°18'14	direct	11556 Dec 22 00:32	3° \mathbb{B} 43'56	
minimum elong	11550 Oct 30 01:01	17° \mathbb{M} 18'05	0°18'44		11557 Mar 27 00:02	15° \mathbb{B}	
max. Earth dist.	11550 Nov 01 10:44	17° \mathbb{M} 52'16	6.01898 AU	evening set	11557 Apr 26 02:50	21° \mathbb{B} 25'05	
morning rise	11550 Nov 12 16:57	20° \mathbb{M} 31'35		max. Earth dist.	11557 May 06 15:10	23° \mathbb{B} 45'21	6.33614 AU
	11550 Dec 25 08:30	0° \mathbb{X}					
retrograde	11551 Mar 21 14:22	10° \mathbb{X} 12'36		conjunction	11557 May 08 22:19	24° \mathbb{B} 16'08	-0°22'39
min. Earth dist.	11551 May 18 17:05	5° \mathbb{X} 21'46	4.09770 AU	minimum elong	11557 May 08 22:18	24° \mathbb{B} 16'08	0°23'12
opposition	11551 May 20 07:29	5° \mathbb{X} 08'46	0°42'35	morning rise	11557 May 21 16:35	27° \mathbb{B} 06'56	
direct	11551 Jul 18 05:24	0° \mathbb{X} 10'38			11557 Jun 03 19:33	0° \mathbb{I}	
evening set	11551 Nov 21 19:11	19° \mathbb{X} 02'57		retrograde	11557 Sep 22 12:37	14° \mathbb{I} 55'07	
				opposition	11557 Nov 22 05:35	10° \mathbb{I} 01'31	-0°45'46
conjunction	11551 Dec 05 08:36	22° \mathbb{X} 07'57	0°35'39	min. Earth dist.	11557 Nov 23 21:44	9° \mathbb{I} 48'36	4.25338 AU
minimum elong	11551 Dec 05 08:35	22° \mathbb{X} 07'57	0°36'22	direct	11558 Jan 22 17:31	5° \mathbb{I} 02'14	
max. Earth dist.	11551 Dec 07 16:53	22° \mathbb{X} 40'00	6.18470 AU	evening set	11558 May 28 07:48	23° \mathbb{I} 31'23	
morning rise	11551 Dec 18 21:57	25° \mathbb{X} 12'38		max. Earth dist.	11558 Jun 07 23:08	25° \mathbb{I} 58'59	6.16543 AU
	11552 Jan 09 14:30	0° \mathbb{Z}					
retrograde	11552 Apr 22 13:39	13° \mathbb{Z} 38'34		conjunction	11558 Jun 10 03:55	26° \mathbb{I} 29'37	-0°37'04
min. Earth dist.	11552 Jun 20 10:47	8° \mathbb{Z} 46'50	4.27077 AU	minimum elong	11558 Jun 10 03:54	26° \mathbb{I} 29'36	0°37'48
opposition	11552 Jun 21 17:35	8° \mathbb{Z} 36'34	0°58'41	morning rise	11558 Jun 23 00:11	29° \mathbb{I} 28'13	
direct	11552 Aug 20 21:24	3° \mathbb{Z} 36'44			11558 Jun 25 07:21	0° \mathbb{E}	
evening set	11552 Dec 24 20:40	21° \mathbb{Z} 37'13		retrograde	11558 Oct 28 02:37	18° \mathbb{E} 29'17	
				opposition	11558 Dec 27 06:52	13° \mathbb{E} 34'14	-1°00'15
conjunction	11553 Jan 07 06:07	24° \mathbb{Z} 33'33	0°40'37	min. Earth dist.	11558 Dec 28 12:43	13° \mathbb{E} 24'28	4.07778 AU
minimum elong	11553 Jan 07 06:07	24° \mathbb{Z} 33'33	0°41'19	direct	11559 Feb 25 10:32	8° \mathbb{E} 36'51	
max. Earth dist.	11553 Jan 08 16:28	24° \mathbb{Z} 52'25	6.35110 AU	evening set	11559 Jul 01 18:29	28° \mathbb{E} 01'15	
morning rise	11553 Jan 20 14:46	27° \mathbb{Z} 29'09			11559 Jul 10 00:47	0° \mathbb{O}	
	11553 Feb 01 06:26	0° \mathbb{A}					
retrograde	11553 May 23 09:50	14° \mathbb{A} 51'18		conjunction	11559 Jul 14 18:39	1° \mathbb{O} 08'28	-0°39'42
min. Earth dist.	11553 Jul 22 10:27	9° \mathbb{A} 56'56	4.41806 AU	minimum elong	11559 Jul 14 18:40	1° \mathbb{O} 08'28	0°40'23
opposition	11553 Jul 23 00:35	9° \mathbb{A} 52'17	0°56'12	max. Earth dist.	11559 Jul 13 13:25	0° \mathbb{O} 50'52	6.00063 AU
direct	11553 Sep 22 10:16	4° \mathbb{A} 51'27		morning rise	11559 Jul 27 19:52	4° \mathbb{O} 16'35	
	11553 Dec 21 10:02	15° \mathbb{A}			11559 Sep 13 13:48	15° \mathbb{O}	
evening set	11554 Jan 25 18:57	22° \mathbb{A} 13'53		retrograde	11559 Dec 05 04:25	24° \mathbb{O} 31'01	
				opposition	11560 Feb 02 18:32	19° \mathbb{O} 33'30	-0°53'24
conjunction	11554 Feb 07 23:57	25° \mathbb{A} 03'44	0°33'41	min. Earth dist.	11560 Feb 03 03:31	19° \mathbb{O} 30'31	3.93976 AU
minimum elong	11554 Feb 07 23:58	25° \mathbb{A} 03'44	0°34'10		11560 Mar 17 20:52	15° \mathbb{R} \mathbb{O}	
max. Earth dist.	11554 Feb 08 07:18	25° \mathbb{A} 07'40	6.46903 AU	direct	11560 Apr 01 13:56	14° \mathbb{O} 38'05	
morning rise	11554 Feb 21 03:05	27° \mathbb{A} 52'37			11560 Apr 16 06:03	15° \mathbb{O}	
	11554 Mar 03 04:06	0° \mathbb{H}			11560 Jul 17 18:44	0° \mathbb{M}	
retrograde	11554 Jun 22 02:04	14° \mathbb{H} 36'02		evening set	11560 Aug 06 13:02	4° \mathbb{M} 43'45	
opposition	11554 Aug 22 01:47	9° \mathbb{H} 39'56	0°38'50				

conjunction	11560 Aug 19 19:30	7° \mathbb{M} 58'34	-0°27'15	minimum elong	11566 Feb 12 08:22	29° \approx 24'09	0°32'19
minimum elong	11560 Aug 19 19:32	7° \mathbb{M} 58'34	0°27'35	max. Earth dist.	11566 Feb 12 10:13	29° \approx 25'09	6.48146 AU
max. Earth dist.	11560 Aug 20 01:41	8° \mathbb{M} 02'21	5.90340 AU		11566 Feb 15 03:15	0° \mathbb{H}	
morning rise	11560 Sep 02 04:09	11° \mathbb{M} 14'38		morning rise	11566 Feb 25 10:54	2° \mathbb{H} 12'17	
	11560 Dec 06 13:25	0° $\underline{\mathbb{L}}$		retrograde	11566 Jun 26 06:40	18° \mathbb{H} 51'51	
retrograde	11561 Jan 12 04:16	2° $\underline{\mathbb{L}}$ 08'46		opposition	11566 Aug 26 06:23	13° \mathbb{H} 56'03	0°35'26
	11561 Feb 17 19:33	30° \mathbb{R} \mathbb{M}		min. Earth dist.	11566 Aug 26 14:38	13° \mathbb{H} 53'24	4.50654 AU
opposition	11561 Mar 12 11:16	27° \mathbb{M} 07'59	-0°24'17	direct	11566 Oct 27 15:40	8° \mathbb{H} 54'46	
min. Earth dist.	11561 Mar 11 17:35	27° \mathbb{M} 13'57	3.89554 AU	evening set	11567 Mar 01 13:40	25° \mathbb{H} 58'54	
direct	11561 May 09 10:49	22° \mathbb{M} 13'03					
	11561 Jul 20 05:11	0° $\underline{\mathbb{L}}$		conjunction	11567 Mar 14 13:45	28° \mathbb{H} 45'18	0°15'18
evening set	11561 Sep 13 17:46	12° $\underline{\mathbb{L}}$ 24'53		minimum elong	11567 Mar 14 13:46	28° \mathbb{H} 45'18	0°15'22
				behind sun begin	11567 Mar 14 11:28	28° \mathbb{H} 44'05	
conjunction	11561 Sep 27 06:06	15° $\underline{\mathbb{L}}$ 41'54	-0°03'31	behind sun end	11567 Mar 14 16:04	28° \mathbb{H} 46'32	
minimum elong	11561 Sep 27 06:05	15° $\underline{\mathbb{L}}$ 41'54	0°03'23	max. Earth dist.	11567 Mar 13 12:37	28° \mathbb{H} 31'51	6.50924 AU
behind sun begin	11561 Sep 26 21:47	15° $\underline{\mathbb{L}}$ 36'52			11567 Mar 20 09:26	0° \mathbb{Y}	
behind sun end	11561 Sep 27 14:24	15° $\underline{\mathbb{L}}$ 46'56		morning rise	11567 Mar 27 11:45	1° \mathbb{Y} 30'47	
max. Earth dist.	11561 Sep 28 23:29	16° $\underline{\mathbb{L}}$ 07'05	5.91662 AU	retrograde	11567 Jul 26 00:05	18° \mathbb{Y} 05'56	
morning rise	11561 Oct 10 20:37	18° $\underline{\mathbb{L}}$ 59'54		opposition	11567 Sep 25 03:46	13° \mathbb{Y} 12'00	0°07'39
asc. node	11561 Nov 20 15:34	28° $\underline{\mathbb{L}}$ 21'43		min. Earth dist.	11567 Sep 26 05:16	13° \mathbb{Y} 03'51	4.49000 AU
	11561 Nov 28 13:08	0° \mathbb{M}		direct	11567 Nov 26 18:53	8° \mathbb{Y} 10'54	
retrograde	11562 Feb 19 01:24	9° \mathbb{M} 36'13		desc. node	11567 Dec 31 16:51	9° \mathbb{Y} 56'07	
min. Earth dist.	11562 Apr 17 23:34	4° \mathbb{M} 44'42	3.96500 AU	evening set	11568 Mar 30 16:16	25° \mathbb{Y} 24'57	
opposition	11562 Apr 19 10:38	4° \mathbb{M} 32'46	0°14'42	max. Earth dist.	11568 Apr 10 14:14	27° \mathbb{Y} 46'49	6.44893 AU
	11562 Jun 01 11:12	30° \mathbb{R} $\underline{\mathbb{L}}$					
direct	11562 Jun 16 13:49	29° $\underline{\mathbb{L}}$ 36'27		conjunction	11568 Apr 12 13:02	28° \mathbb{Y} 12'16	-0°05'25
	11562 Jul 01 17:25	0° \mathbb{M}		minimum elong	11568 Apr 12 13:02	28° \mathbb{Y} 12'16	0°05'42
	11562 Oct 03 05:43	15° \mathbb{M}		behind sun begin	11568 Apr 12 05:23	28° \mathbb{Y} 08'08	
evening set	11562 Oct 21 15:35	19° \mathbb{M} 15'40		behind sun end	11568 Apr 12 20:41	28° \mathbb{Y} 16'24	
					11568 Apr 20 19:13	0° \mathbb{B}	
conjunction	11562 Nov 04 06:21	22° \mathbb{M} 28'07	0°21'15	morning rise	11568 Apr 25 08:09	0° \mathbb{B} 58'59	
minimum elong	11562 Nov 04 06:20	22° \mathbb{M} 28'07	0°21'48		11568 Jul 10 16:57	15° \mathbb{B}	
max. Earth dist.	11562 Nov 06 19:07	23° \mathbb{M} 03'58	6.03448 AU	retrograde	11568 Aug 25 01:56	18° \mathbb{B} 00'48	
morning rise	11562 Nov 17 22:07	25° \mathbb{M} 40'49			11568 Oct 10 00:14	15° \mathbb{R} \mathbb{B}	
	11562 Dec 06 17:34	0° \mathbb{X}		opposition	11568 Oct 25 01:50	13° \mathbb{B} 07'33	-0°22'53
retrograde	11563 Mar 26 10:52	15° \mathbb{X} 13'17		min. Earth dist.	11568 Oct 26 16:16	12° \mathbb{B} 55'16	4.38922 AU
min. Earth dist.	11563 May 23 13:35	10° \mathbb{X} 22'35	4.11749 AU	direct	11568 Dec 26 09:27	8° \mathbb{B} 07'05	
opposition	11563 May 25 04:14	10° \mathbb{X} 09'32	0°45'55		11569 Mar 07 20:45	15° \mathbb{B}	
direct	11563 Jul 23 05:41	5° \mathbb{X} 11'07		evening set	11569 Apr 30 12:00	25° \mathbb{B} 53'49	
evening set	11563 Nov 26 18:22	23° \mathbb{X} 56'51		max. Earth dist.	11569 May 10 21:54	28° \mathbb{B} 13'28	6.31414 AU
conjunction	11563 Dec 10 07:15	27° \mathbb{X} 00'41	0°37'04	conjunction	11569 May 13 07:20	28° \mathbb{B} 45'41	-0°25'09
minimum elong	11563 Dec 10 07:14	27° \mathbb{X} 00'40	0°37'49	minimum elong	11569 May 13 07:19	28° \mathbb{B} 45'40	0°25'45
max. Earth dist.	11563 Dec 12 13:23	27° \mathbb{X} 31'20	6.20680 AU		11569 May 18 19:47	0° \mathbb{I}	
morning rise	11563 Dec 23 20:15	0° \mathbb{Z} 04'10		morning rise	11569 May 26 01:49	1° \mathbb{I} 37'24	
	11563 Dec 23 12:50	0° \mathbb{Z}		retrograde	11569 Sep 27 07:11	19° \mathbb{I} 34'46	
retrograde	11564 Apr 27 01:02	18° \mathbb{Z} 20'27		opposition	11569 Nov 26 22:53	14° \mathbb{I} 40'59	-0°48'46
min. Earth dist.	11564 Jun 25 01:29	13° \mathbb{Z} 28'28	4.29308 AU	min. Earth dist.	11569 Nov 28 13:58	14° \mathbb{I} 28'22	4.22842 AU
opposition	11564 Jun 26 06:53	13° \mathbb{Z} 18'40	0°59'19	direct	11570 Jan 27 06:10	9° \mathbb{I} 41'51	
direct	11564 Aug 25 14:58	8° \mathbb{Z} 18'32		evening set	11570 Jun 01 23:42	28° \mathbb{I} 19'01	
evening set	11564 Dec 29 12:04	26° \mathbb{Z} 12'31			11570 Jun 09 05:41	0° \mathbb{O}	
				max. Earth dist.	11570 Jun 12 18:34	0° \mathbb{O} 49'29	6.13960 AU
conjunction	11565 Jan 11 21:01	29° \mathbb{Z} 07'45	0°40'14				
minimum elong	11565 Jan 11 21:01	29° \mathbb{Z} 07'45	0°40'55	conjunction	11570 Jun 14 20:19	1° \mathbb{O} 18'31	-0°38'15
max. Earth dist.	11565 Jan 13 05:28	29° \mathbb{Z} 25'30	6.37179 AU	minimum elong	11570 Jun 14 20:19	1° \mathbb{O} 18'31	0°38'59
	11565 Jan 15 20:31	0° \approx		morning rise	11570 Jun 27 16:58	4° \mathbb{O} 18'26	
morning rise	11565 Jan 25 04:42	2° \approx 02'09		retrograde	11570 Nov 02 08:30	23° \mathbb{O} 30'52	
	11565 Apr 03 06:36	15° \approx		opposition	11571 Jan 01 09:32	18° \mathbb{O} 35'35	-1°00'41
retrograde	11565 May 27 15:25	19° \approx 16'41		min. Earth dist.	11571 Jan 02 14:03	18° \mathbb{O} 26'14	4.05324 AU
	11565 Jul 21 23:08	15° \mathbb{R} \approx		direct	11571 Mar 02 08:31	13° \mathbb{O} 38'31	
opposition	11565 Jul 27 07:55	14° \approx 18'02	0°54'27		11571 Jun 23 09:02	0° \mathbb{Q}	
min. Earth dist.	11565 Jul 26 19:44	14° \approx 22'01	4.43539 AU	evening set	11571 Jul 06 19:05	3° \mathbb{Q} 10'47	
direct	11565 Sep 26 21:03	9° \approx 17'05					
	11565 Nov 30 22:22	15° \approx		conjunction	11571 Jul 19 19:59	6° \mathbb{Q} 19'20	-0°38'50
evening set	11566 Jan 30 04:13	26° \approx 35'05		minimum elong	11571 Jul 19 20:00	6° \mathbb{Q} 19'20	0°39'28
				max. Earth dist.	11571 Jul 18 17:44	6° \mathbb{Q} 03'28	5.97967 AU
conjunction	11566 Feb 12 08:21	29° \approx 24'09	0°31'52	morning rise	11571 Aug 01 22:20	9° \mathbb{Q} 28'55	

	11571 Aug 25 09:39	15°♏			11577 Aug 31 17:38	15°♏	
retrograde	11571 Dec 10 14:53	29°♏52'35		direct	11577 Oct 01 04:55	13°♏36'07	
opposition	11572 Feb 08 04:15	24°♏54'40 -0°50'27			11577 Nov 01 01:08	15°♏	
min. Earth dist.	11572 Feb 08 08:39	24°♏53'12 3.92491 AU			11578 Jan 30 11:27	0°♏	
direct	11572 Apr 06 18:44	19°♏59'28		evening set	11578 Feb 03 10:22	0°♏50'15	
	11572 Jun 28 19:35	0°♏					
evening set	11572 Aug 11 21:13	10°♏09'26		conjunction	11578 Feb 16 14:01	3°♏38'42 0°29'55	
				minimum elong	11578 Feb 16 14:02	3°♏38'42 0°30'19	
conjunction	11572 Aug 25 04:39	13°♏25'04 -0°24'20		max. Earth dist.	11578 Feb 16 12:46	3°♏38'01 6.49189 AU	
minimum elong	11572 Aug 25 04:40	13°♏25'05 0°24'38		morning rise	11578 Mar 01 15:42	6°♏26'09	
max. Earth dist.	11572 Aug 25 16:26	13°♏32'18 5.89636 AU		retrograde	11578 Jun 30 08:15	23°♏03'03	
morning rise	11572 Sep 07 14:17	16°♏41'58		opposition	11578 Aug 30 09:09	18°♏07'38 0°31'55	
	11572 Nov 06 08:12	0°♏		min. Earth dist.	11578 Aug 30 19:53	18°♏04'11 4.51009 AU	
retrograde	11573 Jan 17 15:58	7°♏38'01		direct	11578 Oct 31 19:38	13°♏06'23	
opposition	11573 Mar 17 22:18	2°♏36'47 -0°18'54			11579 Mar 04 21:46	0°♏	
min. Earth dist.	11573 Mar 17 01:44	2°♏43'45 3.89733 AU		evening set	11579 Mar 05 17:30	0°♏10'28	
	11573 Apr 07 08:36	30°♏		max. Earth dist.	11579 Mar 17 10:42	2°♏40'35 6.50555 AU	
direct	11573 May 14 21:30	27°♏41'46					
	11573 Jun 21 02:56	0°♏		conjunction	11579 Mar 18 16:55	2°♏56'45 0°12'33	
evening set	11573 Sep 19 04:06	17°♏51'38		minimum elong	11579 Mar 18 16:55	2°♏56'46 0°12'35	
asc. node	11573 Sep 28 05:14	20°♏02'59		behind sun begin	11579 Mar 18 11:48	2°♏54'02	
				behind sun end	11579 Mar 18 22:02	2°♏59'29	
conjunction	11573 Oct 02 17:10	21°♏08'27 0°00'18		morning rise	11579 Mar 31 14:34	5°♏42'14	
minimum elong	11573 Oct 02 17:11	21°♏08'28 0°00'29		retrograde	11579 Jul 30 06:28	22°♏19'35	
behind sun begin	11573 Oct 02 08:48	21°♏03'24		opposition	11579 Sep 29 08:37	17°♏25'52 0°03'24	
behind sun end	11573 Oct 03 01:33	21°♏13'31		min. Earth dist.	11579 Sep 30 13:30	17°♏16'37 4.47928 AU	
max. Earth dist.	11573 Oct 04 16:32	21°♏37'11 5.92727 AU		desc. node	11579 Nov 11 00:13	13°♏00'35	
morning rise	11573 Oct 16 08:05	24°♏26'07		direct	11579 Dec 01 00:06	12°♏24'46	
	11573 Nov 09 00:23	0°♏		evening set	11580 Apr 03 21:22	29°♏42'41	
retrograde	11574 Feb 24 06:44	14°♏55'31			11580 Apr 05 05:22	0°♏	
min. Earth dist.	11574 Apr 23 03:17	10°♏04'24 3.98328 AU		max. Earth dist.	11580 Apr 14 16:21	2°♏03'28 6.43185 AU	
opposition	11574 Apr 24 16:02	9°♏51'55 0°19'58					
direct	11574 Jun 21 21:11	4°♏55'23		conjunction	11580 Apr 16 17:57	2°♏30'33 -0°08'20	
	11574 Sep 14 07:50	15°♏		minimum elong	11580 Apr 16 17:57	2°♏30'33 0°08'40	
evening set	11574 Oct 26 21:28	24°♏27'20		behind sun begin	11580 Apr 16 11:01	2°♏26'47	
				behind sun end	11580 Apr 17 00:53	2°♏34'18	
conjunction	11574 Nov 09 11:59	27°♏38'36 0°24'10		morning rise	11580 Apr 29 12:52	5°♏17'51	
minimum elong	11574 Nov 09 11:58	27°♏38'35 0°24'46			11580 Jun 16 11:55	15°♏	
max. Earth dist.	11574 Nov 12 00:55	28°♏14'19 6.05833 AU		retrograde	11580 Aug 29 13:06	22°♏26'38	
	11574 Nov 19 13:39	0°♏		opposition	11580 Oct 29 12:32	17°♏33'22 -0°26'59	
morning rise	11574 Nov 23 03:42	0°♏50'05		min. Earth dist.	11580 Oct 31 03:02	17°♏21'02 4.36685 AU	
retrograde	11575 Mar 31 04:00	20°♏11'07			11580 Nov 19 11:28	15°♏	
min. Earth dist.	11575 May 28 09:21	15°♏20'33 4.14434 AU		direct	11580 Dec 30 15:53	12°♏33'02	
opposition	11575 May 30 00:03	15°♏07'29 0°48'57			11581 Feb 09 15:28	15°♏	
direct	11575 Jul 28 05:20	10°♏08'47			11581 May 02 21:55	0°♏	
evening set	11575 Dec 01 15:37	28°♏45'49		evening set	11581 May 04 22:14	0°♏26'57	
	11575 Dec 07 03:49	0°♏		max. Earth dist.	11581 May 15 09:02	2°♏47'55 6.28812 AU	
conjunction	11575 Dec 15 04:03	1°♏48'14 0°38'16		conjunction	11581 May 17 17:39	3°♏19'52 -0°27'31	
minimum elong	11575 Dec 15 04:02	1°♏48'14 0°39'01		minimum elong	11581 May 17 17:38	3°♏19'52 0°28'09	
max. Earth dist.	11575 Dec 17 08:15	2°♏17'38 6.23436 AU		morning rise	11581 May 30 12:15	6°♏12'42	
morning rise	11575 Dec 28 16:12	4°♏50'11		retrograde	11581 Oct 02 06:34	24°♏20'54	
retrograde	11576 May 01 10:50	22°♏55'36		opposition	11581 Dec 01 18:53	19°♏27'00 -0°51'30	
opposition	11576 Jun 30 17:44	17°♏54'16 0°59'36		min. Earth dist.	11581 Dec 03 10:04	19°♏14'19 4.20048 AU	
min. Earth dist.	11576 Jun 29 14:48	18°♏03'12 4.31885 AU		direct	11582 Jan 31 22:16	14°♏28'09	
direct	11576 Aug 30 06:49	12°♏54'00			11582 May 23 15:57	0°♏	
	11576 Dec 30 21:02	0°♏		evening set	11582 Jun 06 18:09	3°♏14'14	
evening set	11577 Jan 03 00:41	0°♏40'51		max. Earth dist.	11582 Jun 17 14:57	5°♏46'47 6.11219 AU	
conjunction	11577 Jan 16 08:50	3°♏34'55 0°39'40		conjunction	11582 Jun 19 15:12	6°♏15'06 -0°39'11	
minimum elong	11577 Jan 16 08:50	3°♏34'55 0°40'19		minimum elong	11582 Jun 19 15:11	6°♏15'06 0°39'56	
max. Earth dist.	11577 Jan 17 12:24	3°♏49'56 6.39372 AU		morning rise	11582 Jul 02 12:36	9°♏16'30	
morning rise	11577 Jan 29 15:52	6°♏28'10		retrograde	11582 Nov 07 14:52	28°♏40'48	
	11577 Mar 12 11:31	15°♏		opposition	11583 Jan 06 15:03	23°♏45'11 -1°00'39	
retrograde	11577 May 31 18:50	23°♏35'23		min. Earth dist.	11583 Jan 07 15:31	23°♏37'09 4.02904 AU	
opposition	11577 Jul 31 12:46	18°♏37'10 0°52'27		direct	11583 Mar 07 07:52	18°♏48'27	
min. Earth dist.	11577 Jul 31 03:33	18°♏40'10 4.45212 AU			11583 Jun 05 02:51	0°♏	

evening set	11583 Jul 11 22:39	8°♏28'15		conjunction	11589 Jan 20 19:27	7°♏58'43	0°38'52
max. Earth dist.	11583 Jul 24 04:06	11°♏25'44	5.96118 AU	minimum elong	11589 Jan 20 19:28	7°♏58'44	0°39'30
				max. Earth dist.	11589 Jan 21 18:50	8°♏11'25	6.41179 AU
conjunction	11583 Jul 25 00:25	11°♏38'04	-0°37'38	morning rise	11589 Feb 03 01:38	10°♏50'56	
minimum elong	11583 Jul 25 00:26	11°♏38'04	0°38'13		11589 Feb 22 17:20	15°♏	
morning rise	11583 Aug 07 03:43	14°♏48'56		retrograde	11589 Jun 04 23:04	27°♏52'18	
	11583 Aug 07 22:05	15°♏		opposition	11589 Aug 04 17:26	22°♏54'33	0°50'13
	11583 Oct 17 12:07	0°♐		min. Earth dist.	11589 Aug 04 11:38	22°♏56'26	4.46461 AU
retrograde	11583 Dec 16 04:48	5°♐20'26		direct	11589 Oct 05 13:32	17°♏53'28	
opposition	11584 Feb 13 16:09	0°♐22'00	-0°47'00		11590 Jan 14 02:46	0°♐	
min. Earth dist.	11584 Feb 13 17:03	0°♐21'42	3.91425 AU	evening set	11590 Feb 07 16:54	5°♐05'05	
	11584 Feb 16 09:58	30°♐♏					
direct	11584 Apr 12 04:29	25°♏26'54		conjunction	11590 Feb 20 19:51	7°♐53'03	0°27'49
	11584 Jun 04 17:13	0°♐		minimum elong	11590 Feb 20 19:52	7°♐53'03	0°28'10
evening set	11584 Aug 17 06:43	15°♐38'59		max. Earth dist.	11590 Feb 20 13:07	7°♐49'27	6.49788 AU
				morning rise	11590 Mar 05 21:03	10°♐40'05	
conjunction	11584 Aug 30 15:10	18°♐55'10	-0°21'13	retrograde	11590 Jul 04 12:03	27°♐15'40	
minimum elong	11584 Aug 30 15:11	18°♐55'10	0°21'25	opposition	11590 Sep 03 12:56	22°♐20'31	0°28'14
max. Earth dist.	11584 Aug 31 10:01	19°♐06'43	5.89469 AU	min. Earth dist.	11590 Sep 04 02:41	22°♐16'06	4.50948 AU
morning rise	11584 Sep 13 01:41	22°♐12'32		direct	11590 Nov 05 00:30	17°♐19'15	
	11584 Oct 16 05:29	0°♑			11591 Feb 16 18:07	0°♑	
retrograde	11585 Jan 23 02:51	13°♑07'34		evening set	11591 Mar 09 22:28	4°♑24'29	
min. Earth dist.	11585 Mar 22 09:18	8°♑13'54	3.90495 AU				
opposition	11585 Mar 23 09:07	8°♑05'51	-0°13'21	conjunction	11591 Mar 22 21:36	7°♑10'54	0°09'42
direct	11585 May 20 07:32	3°♑10'42		minimum elong	11591 Mar 22 21:37	7°♑10'54	0°09'41
asc. node	11585 Aug 05 13:14	12°♑00'35		behind sun begin	11591 Mar 22 15:02	7°♑07'24	
evening set	11585 Sep 24 13:43	23°♑16'06		behind sun end	11591 Mar 23 04:12	7°♑14'25	
				max. Earth dist.	11591 Mar 21 13:12	6°♑53'31	6.49837 AU
conjunction	11585 Oct 08 03:03	26°♑32'19	0°04'03	morning rise	11591 Apr 04 18:39	9°♑56'29	
minimum elong	11585 Oct 08 03:02	26°♑32'18	0°04'19	retrograde	11591 Aug 03 12:57	26°♑37'05	
behind sun begin	11585 Oct 07 18:48	26°♑27'22		desc. node	11591 Sep 21 16:15	23°♑13'46	
behind sun end	11585 Oct 08 11:15	26°♑37'15		opposition	11591 Oct 03 15:28	21°♑43'32	-0°00'58
max. Earth dist.	11585 Oct 10 04:47	27°♑02'21	5.94286 AU	min. Earth dist.	11591 Oct 04 21:36	21°♑33'54	4.46604 AU
morning rise	11585 Oct 21 18:26	29°♑49'21		direct	11591 Dec 05 04:53	16°♑42'36	
	11585 Oct 22 12:14	0°♒			11592 Mar 20 00:18	0°♒	
	11586 Jan 01 20:31	15°♒		evening set	11592 Apr 08 04:37	4°♒05'03	
retrograde	11586 Mar 01 07:16	20°♒09'48		max. Earth dist.	11592 Apr 18 21:05	6°♒25'07	6.41340 AU
min. Earth dist.	11586 Apr 28 04:38	15°♒19'02	4.00493 AU				
opposition	11586 Apr 29 19:03	15°♒05'59	0°24'58	conjunction	11592 Apr 21 00:49	6°♒53'30	-0°11'17
	11586 Apr 30 12:40	15°♒♒		minimum elong	11592 Apr 21 00:48	6°♒53'29	0°11'41
direct	11586 Jun 27 02:57	10°♒09'05		behind sun begin	11592 Apr 20 19:08	6°♒50'23	
	11586 Aug 22 06:14	15°♒		behind sun end	11592 Apr 21 06:29	6°♒56'35	
evening set	11586 Nov 01 01:03	29°♒32'53		morning rise	11592 May 03 19:39	9°♒41'27	
	11586 Nov 02 23:48	0°♓			11592 May 28 18:51	15°♒	
conjunction	11586 Nov 14 15:28	2°♓42'53	0°26'52	retrograde	11592 Sep 03 05:28	26°♒57'46	
minimum elong	11586 Nov 14 15:27	2°♓42'53	0°27'30	opposition	11592 Nov 03 02:04	22°♒04'33	-0°31'02
max. Earth dist.	11586 Nov 17 04:13	3°♓18'18	6.08387 AU	min. Earth dist.	11592 Nov 04 17:58	21°♒51'45	4.34432 AU
morning rise	11586 Nov 28 06:42	5°♓52'58		direct	11593 Jan 04 03:19	17°♒04'27	
retrograde	11587 Apr 04 20:28	25°♓02'24			11593 Apr 16 05:16	0°♐	
min. Earth dist.	11587 Jun 02 04:40	20°♓11'21	4.17104 AU	evening set	11593 May 09 10:54	5°♐05'33	
opposition	11587 Jun 03 17:25	19°♓58'59	0°51'35	max. Earth dist.	11593 May 19 22:06	7°♐27'32	6.26342 AU
direct	11587 Aug 02 03:55	14°♓59'59					
	11587 Nov 20 15:04	0°♑		conjunction	11593 May 22 06:27	7°♐59'31	-0°29'47
evening set	11587 Dec 06 10:35	3°♑28'45		minimum elong	11593 May 22 06:26	7°♐59'30	0°30'26
				morning rise	11593 Jun 04 01:15	10°♐53'27	
conjunction	11587 Dec 19 22:28	6°♑29'51	0°39'12	retrograde	11593 Oct 07 05:15	29°♐11'57	
minimum elong	11587 Dec 19 22:28	6°♑29'50	0°39'57	opposition	11593 Dec 06 16:53	24°♐17'56	-0°53'57
max. Earth dist.	11587 Dec 22 00:02	6°♑57'35	6.25992 AU	min. Earth dist.	11593 Dec 08 05:32	24°♐06'03	4.17577 AU
morning rise	11588 Jan 02 09:59	9°♑30'25		direct	11594 Feb 05 14:15	19°♐19'29	
retrograde	11588 May 05 17:15	27°♑26'03			11594 May 05 17:23	0°♑	
min. Earth dist.	11588 Jul 04 01:44	22°♑33'27	4.34143 AU	evening set	11594 Jun 11 14:23	8°♑13'19	
opposition	11588 Jul 05 02:57	22°♑25'06	0°59'33	max. Earth dist.	11594 Jun 22 15:46	10°♑49'21	6.08978 AU
direct	11588 Sep 03 19:12	17°♑24'40					
	11588 Dec 14 07:36	0°♒		conjunction	11594 Jun 24 11:51	11°♑15'22	-0°39'52
evening set	11589 Jan 07 11:56	5°♒05'38		minimum elong	11594 Jun 24 11:51	11°♑15'22	0°40'37
				morning rise	11594 Jul 07 09:52	14°♑18'02	
					11594 Sep 23 07:22	0°♏	

retrograde	11594 Nov 12 23:33	3°♏52'18	direct	11600 Sep 08 06:08	21°♁47'19	
	11595 Jan 03 18:25	30°♏56'23		11600 Nov 26 06:21	0°♁	
opposition	11595 Jan 11 21:25	28°♁56'23 -1°00'11	evening set	11601 Jan 11 20:05	9°♁23'59	
min. Earth dist.	11595 Jan 12 19:12	28°♁49'12 4.01111 AU				
direct	11595 Mar 12 11:07	24°♁00'00	conjunction	11601 Jan 25 03:07	12°♁16'21 0°37'55	
	11595 May 14 11:34	0°♏	minimum elong	11601 Jan 25 03:08	12°♁16'21 0°38'32	
evening set	11595 Jul 17 01:49	13°♏44'46	max. Earth dist.	11601 Jan 25 22:43	12°♁26'57 6.42497 AU	
	11595 Jul 22 06:14	15°♏		11601 Feb 06 18:07	15°♁	
			morning rise	11601 Feb 07 08:40	15°♁07'49	
conjunction	11595 Jul 30 04:29	16°♏55'31 -0°36'10		11601 May 02 18:43	0°♏	
minimum elong	11595 Jul 30 04:29	16°♏55'32 0°36'45	retrograde	11601 Jun 08 23:39	2°♏05'00	
max. Earth dist.	11595 Jul 29 14:10	16°♏46'50 5.94968 AU		11601 Jul 16 04:29	30°♏	
morning rise	11595 Aug 12 08:39	20°♏07'22	opposition	11601 Aug 08 19:58	27°♁07'38 0°47'52	
	11595 Sep 24 11:26	0°♏	min. Earth dist.	11601 Aug 08 16:12	27°♁08'51 4.47234 AU	
retrograde	11595 Dec 21 15:31	10°♏43'32	direct	11601 Oct 09 17:39	22°♁06'30	
opposition	11596 Feb 19 01:50	5°♏44'41 -0°43'16		11601 Dec 27 01:53	0°♏	
min. Earth dist.	11596 Feb 18 22:42	5°♏45'44 3.91082 AU				
direct	11596 Apr 17 10:40	0°♏49'46				
evening set	11596 Aug 22 13:46	21°♏01'22				
conjunction	11596 Sep 04 22:47	24°♏17'39 -0°18'02				
minimum elong	11596 Sep 04 22:48	24°♏17'39 0°18'11				
max. Earth dist.	11596 Sep 05 21:21	24°♏31'28 5.89947 AU				
morning rise	11596 Sep 18 10:13	27°♏35'09				
	11596 Sep 28 10:23	0°♏				
retrograde	11597 Jan 28 07:00	18°♏26'32				
opposition	11597 Mar 28 15:04	13°♏24'26 -0°07'57				
min. Earth dist.	11597 Mar 27 12:10	13°♏33'33 3.91745 AU				
direct	11597 May 25 14:06	8°♏29'06				
asc. node	11597 Jun 16 00:05	9°♏16'00				
evening set	11597 Sep 29 18:32	28°♏28'44				
	11597 Oct 06 02:53	0°♏				
conjunction	11597 Oct 13 08:16	1°♏44'12 0°07'32				
minimum elong	11597 Oct 13 08:16	1°♏44'12 0°07'52				
behind sun begin	11597 Oct 13 00:46	1°♏39'43				
behind sun end	11597 Oct 13 15:45	1°♏48'41				
max. Earth dist.	11597 Oct 15 12:48	2°♏15'46 5.96176 AU				
morning rise	11597 Oct 26 23:43	5°♏00'21				
	11597 Dec 10 10:23	15°♏				
retrograde	11598 Mar 06 04:44	25°♏11'08				
min. Earth dist.	11598 May 03 02:59	20°♏20'05 4.02789 AU				
opposition	11598 May 04 16:41	20°♏07'17 0°29'31				
direct	11598 Jul 02 04:31	15°♏10'06				
	11598 Oct 17 10:51	0°♏				
evening set	11598 Nov 05 23:08	4°♏25'47				
conjunction	11598 Nov 19 13:23	7°♏34'35 0°29'16				
minimum elong	11598 Nov 19 13:22	7°♏34'34 0°29'56				
max. Earth dist.	11598 Nov 22 01:46	8°♏09'34 6.10862 AU				
morning rise	11598 Dec 03 04:17	10°♏43'22				
retrograde	11599 Apr 09 06:08	29°♏42'03				
min. Earth dist.	11599 Jun 06 17:40	24°♏51'04 4.19536 AU				
opposition	11599 Jun 08 05:45	24°♏38'57 0°53'46				
direct	11599 Aug 06 19:02	19°♏39'46				
	11599 Nov 03 05:57	0°♁				
evening set	11599 Dec 11 01:01	8°♁01'31				
conjunction	11599 Dec 24 12:20	11°♁01'27 0°39'53				
minimum elong	11599 Dec 24 12:20	11°♁01'27 0°40'37				
max. Earth dist.	11599 Dec 26 09:15	11°♁26'29 6.28194 AU				
morning rise	11600 Jan 06 23:14	14°♁00'50				
	11600 Apr 05 16:48	0°♁				
retrograde	11600 May 09 22:47	1°♁48'20				
	11600 Jun 12 23:54	30°♏				
min. Earth dist.	11600 Jul 08 11:05	26°♁55'01 4.35961 AU				
opposition	11600 Jul 09 08:42	26°♁47'52 0°59'14				