

superior conj	900 Jul 02 j 13:35	14°♄36'31	0°51'34	direct	902 Dec 16 j 18:11	1°♂26'15	
minimum elong	900 Jul 02 j 05:12	14°♄10'42	0°51'14	greatest brilliancy	902 Dec 28 j 13:17	4°♂03'34	-4.7m
	900 Jul 15 j 01:05	0°♄			903 Jan 31 j 19:47	0°♂	
evening rise	900 Aug 07 j 10:50	28°♄57'14		morning max el	903 Feb 05 j 02:27	4°♂13'10	46°44'27
	900 Aug 08 j 07:06	0°♄			903 Mar 01 j 09:58	0°♄	
	900 Sep 01 j 11:56	0°♄		desc. node	903 Mar 16 j 14:13	17°♄03'19	
	900 Sep 25 j 16:58	0°♄			903 Mar 27 j 20:42	0°♄	
desc. node	900 Sep 28 j 19:10	3°♄49'44			903 Apr 22 j 12:12	0°♄	
	900 Oct 19 j 23:16	0°♄			903 May 17 j 18:03	0°♄	
	900 Nov 13 j 08:13	0°♂			903 Jun 11 j 17:17	0°♄	
	900 Dec 07 j 23:13	0°♄			903 Jul 06 j 10:18	0°♄	
	901 Jan 02 j 04:32	0°♄		asc. node	903 Jul 07 j 17:28	1°♄35'08	
asc. node	901 Jan 19 j 22:15	20°♄14'37			903 Jul 30 j 20:59	0°♄	
	901 Jan 28 j 20:18	0°♄		morning set	903 Aug 03 j 21:50	4°♄58'58	
evening max el	901 Feb 10 j 01:20	12°♄40'34	46°22'42		903 Aug 24 j 01:59	0°♄	
	901 Mar 01 j 01:16	0°♄		max. Earth dist.	903 Sep 06 j 09:35	16°♄36'00	1.72054 AU
greatest brilliancy	901 Mar 17 j 04:12	10°♄40'06	-4.5m				
retrograde	901 Mar 31 j 21:33	14°♄32'03		superior conj	903 Sep 09 j 20:40	20°♄55'22	1°22'25
evening set	901 Apr 16 j 20:54	9°♄33'01		minimum elong	903 Sep 10 j 01:08	21°♄09'18	1°22'23
inferior conj	901 Apr 22 j 06:19	6°♄15'17	4°19'42		903 Sep 17 j 02:59	0°♄	
minimum elong	901 Apr 22 j 14:37	6°♄02'14	4°17'35		903 Oct 11 j 01:57	0°♄	
min. Earth dist.	901 Apr 22 j 09:07	6°♄10'53	0.28832 AU	evening rise	903 Oct 18 j 19:04	9°♄39'56	
morning rise	901 Apr 28 j 08:32	2°♄34'04		desc. node	903 Oct 27 j 07:01	20°♄19'00	
	901 May 03 j 16:14	30°♄			903 Nov 04 j 00:30	0°♄	
desc. node	901 May 11 j 11:39	28°♄04'58			903 Nov 27 j 23:41	0°♂	
direct	901 May 13 j 17:27	27°♄59'00			903 Dec 22 j 00:50	0°♄	
	901 May 24 j 07:27	0°♄			904 Jan 15 j 06:35	0°♄	
greatest brilliancy	901 May 26 j 15:38	0°♄55'32	-4.5m		904 Feb 08 j 21:39	0°♄	
morning max el	901 Jul 01 j 12:44	27°♄44'20	45°44'51	asc. node	904 Feb 17 j 10:15	10°♄12'44	
	901 Jul 03 j 21:11	0°♄			904 Mar 05 j 05:54	0°♄	
	901 Aug 01 j 14:41	0°♄			904 Mar 31 j 22:52	0°♄	
	901 Aug 27 j 22:46	0°♄		evening max el	904 Apr 21 j 20:39	21°♄27'31	45°25'09
asc. node	901 Sep 01 j 15:13	5°♄30'12			904 May 01 j 02:24	0°♄	
	901 Sep 22 j 02:21	0°♄		greatest brilliancy	904 May 26 j 10:50	17°♄47'23	-4.5m
	901 Oct 16 j 13:19	0°♄		desc. node	904 Jun 07 j 23:33	21°♄07'45	
	901 Nov 09 j 15:15	0°♄		retrograde	904 Jun 09 j 09:01	21°♄09'59	
	901 Dec 03 j 13:14	0°♄		evening set	904 Jun 24 j 21:25	16°♄35'23	
desc. node	901 Dec 22 j 04:30	23°♄24'53		inferior conj	904 Jun 30 j 20:39	13°♄00'36	-5°-2'-13
	901 Dec 27 j 10:22	0°♂		minimum elong	904 Jun 30 j 11:21	13°♄15'07	5°00'00
morning set	901 Dec 31 j 10:26	5°♂01'29		min. Earth dist.	904 Jun 30 j 21:28	12°♄59'19	0.28928 AU
	902 Jan 20 j 08:20	0°♄		morning rise	904 Jul 06 j 01:03	9°♄51'36	
				direct	904 Jul 22 j 12:46	4°♄43'56	
superior conj	902 Feb 10 j 19:34	26°♄50'48	-1°-24'-36	greatest brilliancy	904 Aug 05 j 16:34	8°♄13'46	-4.5m
minimum elong	902 Feb 10 j 15:50	26°♄39'09	1°24'35		904 Sep 04 j 03:36	0°♄	
	902 Feb 13 j 08:12	0°♄		morning max el	904 Sep 09 j 22:51	5°♄33'38	46°13'18
max. Earth dist.	902 Feb 14 j 18:48	1°♄47'52	1.71950 AU	asc. node	904 Sep 29 j 03:06	25°♄32'48	
	902 Mar 09 j 11:01	0°♄			904 Oct 03 j 04:05	0°♄	
evening rise	902 Mar 22 j 09:12	15°♄59'58			904 Oct 29 j 04:51	0°♄	
	902 Apr 02 j 17:41	0°♄			904 Nov 23 j 01:35	0°♄	
asc. node	902 Apr 14 j 08:04	14°♄15'19			904 Dec 17 j 10:15	0°♄	
	902 Apr 27 j 04:50	0°♄			905 Jan 10 j 14:26	0°♂	
	902 May 21 j 21:04	0°♄		desc. node	905 Jan 18 j 16:27	10°♂02'54	
	902 Jun 15 j 19:38	0°♄			905 Feb 03 j 17:44	0°♄	
	902 Jul 11 j 03:34	0°♄			905 Feb 27 j 21:49	0°♄	
desc. node	902 Aug 03 j 21:13	27°♄26'39		morning set	905 Mar 16 j 21:20	21°♄01'44	
	902 Aug 06 j 03:13	0°♄			905 Mar 24 j 03:32	0°♄	
	902 Sep 02 j 09:48	0°♄			905 Apr 17 j 11:16	0°♄	
evening max el	902 Sep 16 j 17:56	14°♄40'47	46°49'19				
	902 Oct 03 j 11:10	0°♄		superior conj	905 Apr 23 j 16:59	7°♄40'41	0°-41'-15
greatest brilliancy	902 Oct 25 j 15:17	14°♄21'34	-4.7m	minimum elong	905 Apr 24 j 00:52	8°♄04'56	0°40'56
retrograde	902 Nov 05 j 21:45	16°♄42'39		max. Earth dist.	905 Apr 25 j 07:37	9°♄39'30	1.73381 AU
evening set	902 Nov 20 j 04:33	12°♄38'55			905 May 11 j 20:45	0°♄	
asc. node	902 Nov 25 j 00:31	9°♄51'47		asc. node	905 May 11 j 19:52	29°♄57'16	
inferior conj	902 Nov 26 j 09:16	9°♄02'01	0°21'21	evening rise	905 May 30 j 11:10	22°♄49'53	
minimum elong	902 Nov 26 j 08:27	9°♄03'16	0°21'04		905 Jun 05 j 07:24	0°♄	
min. Earth dist.	902 Nov 26 j 05:26	9°♄07'52	0.26373 AU		905 Jun 29 j 18:54	0°♄	
morning rise	902 Dec 02 j 12:31	5°♄28'10			905 Jul 24 j 07:49	0°♄	

	905 Aug 17 j 23:41	0°♁			907 Dec 30 j 05:40	0°♁		
desc. node	905 Aug 31 j 09:16	16°♁12'01			908 Jan 24 j 12:10	0°♁		
	905 Sep 11 j 20:35	0°♁		desc. node	908 Feb 16 j 04:21	27°♁23'14		
	905 Oct 07 j 01:48	0°♁			908 Feb 18 j 08:02	0°♁		
	905 Nov 01 j 23:33	0°♁			908 Mar 13 j 23:44	0°♁		
evening max el	905 Nov 28 j 05:32	28°♁29'12	47°20'29		908 Apr 07 j 13:57	0°♁		
	905 Nov 29 j 17:15	0°♁			908 May 02 j 03:37	0°♁		
asc. node	905 Dec 22 j 12:33	20°♁37'55		morning set	908 May 24 j 23:20	27°♁54'18		
greatest brilliancy	906 Jan 05 j 02:27	29°♁08'00	-4.7m		908 May 26 j 16:24	0°♁		
	906 Jan 07 j 02:17	0°♁		asc. node	908 Jun 08 j 07:44	15°♁29'27		
retrograde	906 Jan 18 j 05:54	2°♁22'12			908 Jun 20 j 03:22	0°♁		
	906 Jan 28 j 23:16	30°♁		max. Earth dist.	908 Jun 27 j 21:43	9°♁33'04	1.73445 AU	
evening set	906 Feb 04 j 19:01	26°♁22'15						
min. Earth dist.	906 Feb 07 j 09:43	24°♁45'01	0.27674 AU	superior conj	908 Jun 30 j 08:12	12°♁33'05	0°49'03	
inferior conj	906 Feb 08 j 04:41	24°♁15'11	8°35'59	minimum elong	908 Jun 30 j 00:00	12°♁07'53	0°48'43	
minimum elong	906 Feb 08 j 00:42	24°♁21'27	8°35'44		908 Jul 14 j 11:47	0°♁		
morning rise	906 Feb 11 j 06:36	22°♁20'17		evening rise	908 Aug 05 j 04:39	26°♁50'13		
direct	906 Feb 28 j 22:23	16°♁20'08			908 Aug 07 j 17:57	0°♁		
greatest brilliancy	906 Mar 11 j 16:21	18°♁27'19	-4.6m		908 Aug 31 j 23:02	0°♁		
	906 Mar 30 j 20:34	0°♁			908 Sep 25 j 04:21	0°♁		
desc. node	906 Apr 13 j 01:54	11°♁17'30		desc. node	908 Sep 27 j 21:09	3°♁20'28		
morning max el	906 Apr 19 j 03:04	16°♁59'59	46°01'58		908 Oct 19 j 11:02	0°♁		
	906 May 02 j 01:58	0°♁			908 Nov 12 j 20:31	0°♁		
	906 May 29 j 18:49	0°♁			908 Dec 07 j 12:22	0°♁		
	906 Jun 25 j 00:46	0°♁			909 Jan 01 j 19:14	0°♁		
asc. node	906 Jul 20 j 11:24	0°♁		asc. node	909 Jan 19 j 00:24	19°♁34'14		
	906 Aug 04 j 05:26	17°♁43'51			909 Jan 28 j 14:44	0°♁		
	906 Aug 14 j 07:54	0°♁		evening max el	909 Feb 07 j 17:31	10°♁27'13	46°25'18	
	906 Sep 07 j 17:22	0°♁			909 Mar 01 j 12:53	0°♁		
greatest brilliancy	906 Oct 01 j 07:33	29°♁23'34	-3.9m	greatest brilliancy	909 Mar 14 j 21:51	8°♁31'01	-4.5m	
	906 Oct 01 j 19:12	0°♁		retrograde	909 Mar 29 j 14:36	12°♁21'41		
morning set	906 Oct 13 j 16:51	14°♁55'11		evening set	909 Apr 14 j 15:42	7°♁19'14		
	906 Oct 25 j 16:48	0°♁		inferior conj	909 Apr 19 j 22:35	4°♁04'48	4°36'55	
	906 Nov 18 j 12:53	0°♁		minimum elong	909 Apr 20 j 07:14	3°♁51'10	4°34'46	
				min. Earth dist.	909 Apr 20 j 00:45	4°♁01'23	0.28813 AU	
superior conj	906 Nov 22 j 23:21	5°♁35'11	0°01'57	morning rise	909 Apr 25 j 23:04	0°♁26'09		
minimum elong	906 Nov 22 j 23:53	5°♁36'50	0°01'56		909 Apr 26 j 18:09	30°♁		
behind sun begin	906 Nov 21 j 21:36	4°♁14'06		desc. node	909 May 10 j 13:36	25°♁49'54		
behind sun end	906 Nov 24 j 02:09	6°♁59'32		direct	909 May 11 j 09:53	25°♁49'03		
max. Earth dist.	906 Nov 23 j 08:21	6°♁03'31	1.71046 AU	greatest brilliancy	909 May 24 j 04:59	28°♁43'00	-4.5m	
desc. node	906 Nov 23 j 18:46	6°♁36'17			909 May 26 j 23:45	0°♁		
	906 Dec 12 j 09:01	0°♁		morning max el	909 Jun 29 j 05:12	25°♁36'18	45°44'34	
evening rise	907 Jan 03 j 15:51	27°♁59'29			909 Jul 03 j 18:08	0°♁		
	907 Jan 05 j 06:19	0°♁			909 Aug 01 j 05:47	0°♁		
	907 Jan 29 j 06:09	0°♁			909 Aug 27 j 11:48	0°♁		
asc. node	907 Feb 22 j 10:36	0°♁		asc. node	909 Aug 31 j 17:19	4°♁58'39		
	907 Mar 16 j 22:16	27°♁34'03			909 Sep 21 j 14:26	0°♁		
	907 Mar 18 j 22:14	0°♁			909 Oct 16 j 00:56	0°♁		
	907 Apr 12 j 20:11	0°♁			909 Nov 09 j 02:36	0°♁		
	907 May 08 j 09:14	0°♁			909 Dec 03 j 00:24	0°♁		
	907 Jun 03 j 23:57	0°♁		desc. node	909 Dec 21 j 06:41	22°♁56'56		
evening max el	907 Jul 02 j 22:45	29°♁55'56	45°37'10		909 Dec 26 j 21:25	0°♁		
	907 Jul 03 j 00:27	0°♁		morning set	909 Dec 28 j 20:02	2°♁26'20		
desc. node	907 Jul 06 j 11:30	3°♁15'29			910 Jan 19 j 19:16	0°♁		
greatest brilliancy	907 Aug 09 j 18:46	27°♁37'13	-4.5m					
retrograde	907 Aug 20 j 20:23	29°♁48'46		superior conj	910 Feb 08 j 07:10	24°♁23'10	-1°23'-55	
evening set	907 Sep 07 j 17:08	23°♁52'27		minimum elong	910 Feb 08 j 02:27	24°♁08'27	1°23'53	
inferior conj	907 Sep 10 j 21:07	21°♁57'43	-8°-32'-55	max. Earth dist.	910 Feb 12 j 09:08	29°♁28'57	1.71898 AU	
minimum elong	907 Sep 11 j 02:06	21°♁50'05	8°32'35		910 Feb 12 j 19:05	0°♁		
min. Earth dist.	907 Sep 11 j 16:51	21°♁27'30	0.27832 AU		910 Mar 08 j 21:52	0°♁		
morning rise	907 Sep 14 j 10:47	19°♁48'06		evening rise	910 Mar 19 j 23:22	13°♁41'58		
direct	907 Oct 01 j 23:33	13°♁56'30			910 Apr 02 j 04:33	0°♁		
greatest brilliancy	907 Oct 16 j 06:38	17°♁38'49	-4.6m	asc. node	910 Apr 13 j 10:05	13°♁47'59		
asc. node	907 Oct 27 j 14:43	24°♁39'19			910 Apr 26 j 15:50	0°♁		
	907 Nov 03 j 09:09	0°♁			910 May 21 j 08:22	0°♁		
morning max el	907 Nov 21 j 16:57	17°♁13'12	46°52'31		910 Jun 15 j 07:31	0°♁		
	907 Dec 03 j 19:09	0°♁			910 Jul 10 j 16:31	0°♁		

desc. node	910 Aug 02 j 23:21	26°♎51'06			913 Jan 10 j 01:58	0°♁	
	910 Aug 05 j 18:08	0°♊		desc. node	913 Jan 17 j 18:34	9°♁33'59	
	910 Sep 02 j 05:05	0°♌			913 Feb 03 j 04:59	0°♎	
evening max el	910 Sep 14 j 07:35	12°♌18'24	46°46'42		913 Feb 27 j 08:48	0°♋	
	910 Oct 03 j 23:49	0°♌		morning set	913 Mar 14 j 11:37	18°♋43'51	
greatest brilliancy	910 Oct 23 j 05:46	11°♌54'59	-4.7m		913 Mar 23 j 14:19	0°♍	
retrograde	910 Nov 03 j 09:27	14°♌12'52			913 Apr 16 j 21:55	0°♄	
evening set	910 Nov 17 j 17:23	10°♌08'55					
inferior conj	910 Nov 23 j 21:18	6°♌33'02	0°-3'-30	superior conj	913 Apr 21 j 09:42	5°♄31'41	0°-44'-7
minimum elong	910 Nov 23 j 21:26	6°♌32'49	0°03'28	minimum elong	913 Apr 21 j 17:59	5°♄57'11	0°43'47
transit begin	910 Nov 23 j 17:27	6°♌38'54		max. Earth dist.	913 Apr 23 j 01:52	7°♄35'15	1.73347 AU
transit end	910 Nov 24 j 01:25	6°♌26'45		asc. node	913 May 10 j 21:59	29°♄31'04	
min. Earth dist.	910 Nov 23 j 19:11	6°♌36'14	0.26373 AU		913 May 11 j 07:24	0°♅	
asc. node	910 Nov 24 j 02:41	6°♌24'49		evening rise	913 May 28 j 05:45	20°♅46'55	
morning rise	910 Nov 30 j 01:33	2°♌57'32			913 Jun 04 j 18:08	0°♆	
	910 Dec 07 j 03:07	30°♌			913 Jun 29 j 05:49	0°♄	
direct	910 Dec 14 j 06:21	28°♌57'18			913 Jul 23 j 19:06	0°♎	
	910 Dec 21 j 14:11	0°♌			913 Aug 17 j 11:31	0°♊	
greatest brilliancy	910 Dec 26 j 03:24	1°♌36'14	-4.7m	desc. node	913 Aug 30 j 11:17	15°♊41'12	
	911 Jan 31 j 20:12	0°♁			913 Sep 11 j 09:14	0°♌	
morning max el	911 Feb 02 j 14:33	1°♁45'29	46°45'37		913 Oct 06 j 15:48	0°♌	
	911 Mar 01 j 02:43	0°♎			913 Nov 01 j 16:03	0°♁	
desc. node	911 Mar 15 j 16:16	16°♎26'39		evening max el	913 Nov 25 j 19:11	26°♁04'55	47°20'59
	911 Mar 27 j 10:39	0°♋			913 Nov 29 j 16:28	0°♎	
	911 Apr 22 j 00:43	0°♍		asc. node	913 Dec 21 j 14:39	19°♎22'22	
	911 May 17 j 05:43	0°♄		greatest brilliancy	914 Jan 02 j 17:53	26°♎46'47	-4.7m
	911 Jun 11 j 04:27	0°♅			914 Jan 15 j 03:07	0°♋	
asc. node	911 Jul 05 j 21:09	0°♆		retrograde	914 Jan 15 j 20:32	0°♋00'39	
	911 Jul 06 j 19:40	1°♆08'45			914 Jan 16 j 13:55	30°♎	
	911 Jul 30 j 07:41	0°♄		evening set	914 Feb 02 j 06:39	24°♎04'57	
morning set	911 Aug 01 j 15:09	2°♄51'13		min. Earth dist.	914 Feb 04 j 23:21	22°♎24'59	0.27617 AU
	911 Aug 23 j 12:39	0°♎		inferior conj	914 Feb 05 j 18:56	21°♎54'16	8°31'35
max. Earth dist.	911 Sep 03 j 23:19	14°♎15'45	1.72110 AU	minimum elong	914 Feb 05 j 14:10	22°♎01'44	8°31'14
				morning rise	914 Feb 08 j 21:55	19°♎58'02	
superior conj	911 Sep 07 j 12:38	18°♎41'57	1°23'08	direct	914 Feb 26 j 11:37	13°♎59'56	
minimum elong	911 Sep 07 j 16:22	18°♎53'36	1°23'06	greatest brilliancy	914 Mar 09 j 06:08	16°♎07'49	-4.6m
	911 Sep 16 j 13:42	0°♊			914 Mar 31 j 08:03	0°♋	
	911 Oct 10 j 12:49	0°♌		desc. node	914 Apr 12 j 03:55	10°♋23'20	
evening rise	911 Oct 16 j 07:21	7°♌13'48		morning max el	914 Apr 16 j 17:39	14°♋43'58	46°03'22
desc. node	911 Oct 26 j 09:04	19°♌50'55			914 May 01 j 20:30	0°♍	
	911 Nov 03 j 11:33	0°♌			914 May 29 j 09:16	0°♄	
	911 Nov 27 j 10:56	0°♁			914 Jun 24 j 13:27	0°♅	
	911 Dec 21 j 12:20	0°♎			914 Jul 19 j 23:10	0°♆	
	912 Jan 14 j 18:25	0°♋		asc. node	914 Aug 03 j 07:25	17°♆15'19	
	912 Feb 08 j 10:05	0°♍			914 Aug 13 j 19:10	0°♄	
asc. node	912 Feb 16 j 12:19	9°♍40'51			914 Sep 07 j 04:23	0°♎	
	912 Mar 04 j 19:35	0°♄			914 Oct 01 j 06:07	0°♊	
	912 Mar 31 j 15:34	0°♅		greatest brilliancy	914 Oct 03 j 08:25	2°♊37'27	-3.9m
evening max el	912 Apr 19 j 11:17	19°♅14'07	45°26'07	morning set	914 Oct 11 j 06:26	12°♊33'00	
	912 May 01 j 06:01	0°♆			914 Oct 25 j 03:43	0°♌	
greatest brilliancy	912 May 24 j 01:01	15°♆36'21	-4.5m		914 Nov 17 j 23:48	0°♌	
retrograde	912 Jun 07 j 00:47	19°♆01'34					
desc. node	912 Jun 07 j 01:45	19°♆01'34		superior conj	914 Nov 20 j 09:40	3°♌02'10	0°05'55
evening set	912 Jun 22 j 11:40	14°♆29'08		minimum elong	914 Nov 20 j 11:14	3°♌07'07	0°05'50
inferior conj	912 Jun 28 j 12:53	10°♆51'48	-4°-45'-46	behind sun begin	914 Nov 19 j 10:22	1°♌48'48	
minimum elong	912 Jun 28 j 03:52	11°♆05'52	4°43'34	behind sun end	914 Nov 21 j 12:06	4°♌25'25	
min. Earth dist.	912 Jun 28 j 13:54	10°♆50'12	0.28938 AU	max. Earth dist.	914 Nov 20 j 17:56	3°♌28'15	1.71052 AU
morning rise	912 Jul 03 j 19:47	7°♆39'05		desc. node	914 Nov 22 j 20:58	6°♌08'50	
direct	912 Jul 20 j 04:27	2°♆34'48			914 Dec 11 j 19:57	0°♁	
greatest brilliancy	912 Aug 03 j 08:52	6°♆04'29	-4.5m	evening rise	915 Jan 01 j 02:12	25°♁27'03	
	912 Sep 04 j 03:24	0°♄			915 Jan 04 j 17:17	0°♎	
morning max el	912 Sep 07 j 13:21	3°♄18'01	46°11'59		915 Jan 28 j 17:12	0°♋	
asc. node	912 Sep 28 j 05:04	24°♄52'28			915 Feb 21 j 21:49	0°♍	
	912 Oct 02 j 20:08	0°♎		asc. node	915 Mar 16 j 00:13	27°♍05'01	
	912 Oct 28 j 18:26	0°♊			915 Mar 18 j 09:46	0°♄	
	912 Nov 22 j 14:04	0°♌			915 Apr 12 j 08:19	0°♅	
	912 Dec 16 j 22:09	0°♌			915 May 07 j 22:34	0°♆	

	915 Jun 03 j 15:52	0°♁		desc. node	917 Dec 20 j 08:43	22°♁28'01	
evening max el	915 Jun 30 j 13:51	27°♁42'34	45°35'33	morning set	917 Dec 26 j 05:41	29°♁50'47	
	915 Jul 03 j 00:00	0°♃			917 Dec 26 j 08:37	0°♁	
desc. node	915 Jul 05 j 13:35	2°♃22'34			918 Jan 19 j 06:23	0°♁	
greatest brilliancy	915 Aug 07 j 05:28	25°♃16'44	-4.5m				
retrograde	915 Aug 18 j 10:21	27°♃30'44		superior conj	918 Feb 05 j 18:54	21°♁55'30	-1°-23'-3
evening set	915 Sep 05 j 08:14	21°♃32'05		minimum elong	918 Feb 05 j 13:15	21°♁37'50	1°23'00
inferior conj	915 Sep 08 j 11:07	19°♃38'44	-8°-37'-19	max. Earth dist.	918 Feb 09 j 23:11	27°♁08'36	1.71839 AU
minimum elong	915 Sep 08 j 15:18	19°♃32'18	8°37'04		918 Feb 12 j 06:06	0°♃	
min. Earth dist.	915 Sep 09 j 05:54	19°♃09'57	0.27896 AU		918 Mar 08 j 08:49	0°♃	
morning rise	915 Sep 11 j 22:10	17°♃32'54		evening rise	918 Mar 17 j 13:38	11°♃23'49	
direct	915 Sep 29 j 14:54	11°♃36'43			918 Apr 01 j 15:31	0°♃	
greatest brilliancy	915 Oct 13 j 21:44	15°♃19'10	-4.6m	asc. node	918 Apr 12 j 12:14	13°♃20'42	
asc. node	915 Oct 26 j 16:52	23°♃24'51			918 Apr 26 j 02:58	0°♃	
	915 Nov 03 j 17:42	0°♃			918 May 20 j 19:52	0°♃	
morning max el	915 Nov 19 j 08:12	14°♃53'10	46°51'48		918 Jun 14 j 19:40	0°♁	
	915 Dec 03 j 13:40	0°♃			918 Jul 10 j 05:46	0°♃	
	915 Dec 29 j 20:32	0°♃		desc. node	918 Aug 02 j 01:19	26°♃14'13	
	916 Jan 24 j 01:22	0°♁			918 Aug 05 j 09:28	0°♃	
desc. node	916 Feb 15 j 06:22	26°♁51'57			918 Sep 02 j 01:11	0°♃	
	916 Feb 17 j 20:18	0°♁		evening max el	918 Sep 11 j 20:14	9°♃53'08	46°44'08
	916 Mar 13 j 11:23	0°♃			918 Oct 04 j 16:58	0°♃	
	916 Apr 07 j 01:13	0°♃		greatest brilliancy	918 Oct 20 j 20:38	9°♃28'23	-4.6m
	916 May 01 j 14:35	0°♃		retrograde	918 Oct 31 j 20:49	11°♃42'54	
morning set	916 May 22 j 17:34	25°♃50'11		evening set	918 Nov 15 j 06:27	7°♃38'03	
	916 May 26 j 03:11	0°♃		inferior conj	918 Nov 21 j 09:23	4°♃03'42	0°-28'-15
asc. node	916 Jun 07 j 09:54	15°♃03'09		minimum elong	918 Nov 21 j 10:28	4°♃02'03	0°27'54
	916 Jun 19 j 14:03	0°♃		min. Earth dist.	918 Nov 21 j 09:19	4°♃03'49	0.26382 AU
max. Earth dist.	916 Jun 25 j 19:46	7°♃40'19	1.73469 AU	asc. node	918 Nov 23 j 04:49	2°♃57'46	
				morning rise	918 Nov 27 j 14:24	0°♃26'48	
superior conj	916 Jun 28 j 02:40	10°♃29'13	0°46'28		918 Nov 28 j 11:07	30°♃	
minimum elong	916 Jun 27 j 18:43	10°♃04'46	0°46'08	direct	918 Dec 11 j 18:07	26°♃27'34	
	916 Jul 13 j 22:30	0°♁		greatest brilliancy	918 Dec 23 j 18:36	29°♃09'27	-4.7m
evening rise	916 Aug 02 j 22:26	24°♁43'07			918 Dec 25 j 15:13	0°♃	
	916 Aug 07 j 04:49	0°♃		morning max el	919 Jan 31 j 02:38	29°♃16'40	46°46'52
	916 Aug 31 j 10:09	0°♃			919 Jan 31 j 19:52	0°♁	
	916 Sep 24 j 15:49	0°♃			919 Feb 28 j 19:26	0°♁	
desc. node	916 Sep 26 j 23:11	2°♃51'10		desc. node	919 Mar 14 j 18:16	15°♁49'23	
	916 Oct 18 j 22:55	0°♃			919 Mar 27 j 00:43	0°♃	
	916 Nov 12 j 08:57	0°♁			919 Apr 21 j 13:23	0°♃	
	916 Dec 07 j 01:38	0°♁			919 May 16 j 17:34	0°♃	
	917 Jan 01 j 10:07	0°♃			919 Jun 10 j 15:47	0°♃	
asc. node	917 Jan 18 j 02:27	18°♃53'15			919 Jul 05 j 08:14	0°♃	
	917 Jan 28 j 09:36	0°♃		asc. node	919 Jul 05 j 21:37	0°♃40'53	
evening max el	917 Feb 05 j 09:33	8°♃13'28	46°27'50		919 Jul 29 j 18:39	0°♁	
	917 Mar 02 j 04:24	0°♃		morning set	919 Jul 30 j 08:27	0°♁42'35	
greatest brilliancy	917 Mar 12 j 16:09	6°♃22'52	-4.6m		919 Aug 22 j 23:37	0°♃	
retrograde	917 Mar 27 j 07:18	10°♃11'21		max. Earth dist.	919 Sep 01 j 14:34	11°♃59'22	1.72166 AU
evening set	917 Apr 12 j 10:43	5°♃05'35					
inferior conj	917 Apr 17 j 14:58	1°♃54'31	4°53'42	superior conj	919 Sep 05 j 04:33	16°♃27'34	1°23'44
minimum elong	917 Apr 17 j 23:55	1°♃40'22	4°51'31	minimum elong	919 Sep 05 j 07:32	16°♃36'51	1°23'42
min. Earth dist.	917 Apr 17 j 16:42	1°♃51'47	0.28795 AU		919 Sep 16 j 00:44	0°♃	
	917 Apr 20 j 16:19	30°♃			919 Oct 09 j 23:58	0°♃	
morning rise	917 Apr 23 j 13:30	28°♃18'24		evening rise	919 Oct 13 j 19:40	4°♃47'04	
direct	917 May 09 j 02:23	23°♃39'19		desc. node	919 Oct 25 j 11:12	19°♃22'17	
desc. node	917 May 09 j 15:49	23°♃39'41			919 Nov 02 j 22:53	0°♃	
greatest brilliancy	917 May 21 j 18:04	26°♃29'55	-4.5m		919 Nov 26 j 22:30	0°♁	
	917 May 28 j 15:31	0°♃			919 Dec 21 j 00:09	0°♁	
morning max el	917 Jun 26 j 21:02	23°♃26'18	45°44'15		920 Jan 14 j 06:36	0°♃	
	917 Jul 03 j 14:31	0°♃			920 Feb 07 j 22:55	0°♃	
	917 Jul 31 j 20:51	0°♃		asc. node	920 Feb 15 j 14:19	9°♃07'40	
	917 Aug 27 j 00:52	0°♁			920 Mar 04 j 09:45	0°♃	
asc. node	917 Aug 30 j 19:20	4°♁26'36			920 Mar 31 j 08:56	0°♃	
	917 Sep 21 j 02:34	0°♃		evening max el	920 Apr 17 j 02:08	17°♃00'39	45°27'22
	917 Oct 15 j 12:37	0°♃			920 May 01 j 11:51	0°♃	
	917 Nov 08 j 14:03	0°♃		greatest brilliancy	920 May 21 j 14:11	13°♃23'42	-4.5m
	917 Dec 02 j 11:43	0°♃		retrograde	920 Jun 04 j 17:08	16°♃53'04	

desc. node	920 Jun 06 j 03:44	16°♄50'37		behind sun begin	922 Nov 17 j 01:01	29°♍28'27	
evening set	920 Jun 20 j 02:14	12°♄22'19		behind sun end	922 Nov 18 j 19:47	1°♌43'04	
inferior conj	920 Jun 26 j 05:16	8°♄42'45	-4°-28'-59	max. Earth dist.	922 Nov 18 j 02:52	0°♌49'49	1.71062 AU
minimum elong	920 Jun 25 j 20:35	8°♄56'17	4°26'49	desc. node	922 Nov 21 j 23:00	5°♌39'49	
min. Earth dist.	920 Jun 26 j 06:17	8°♄41'10	0.28949 AU		922 Dec 11 j 07:14	0°♄	
morning rise	920 Jul 01 j 14:38	5°♄26'36		evening rise	922 Dec 29 j 12:04	22°♄52'00	
direct	920 Jul 17 j 20:24	0°♄25'19			923 Jan 04 j 04:36	0°♁	
greatest brilliancy	920 Aug 01 j 01:52	3°♄55'46	-4.5m		923 Jan 28 j 04:36	0°♁	
	920 Sep 04 j 02:31	0°♄			923 Feb 21 j 09:22	0°♁	
morning max el	920 Sep 05 j 05:00	1°♄04'30	46°10'31	asc. node	923 Mar 15 j 02:24	26°♁35'39	
asc. node	920 Sep 27 j 07:12	24°♄12'01			923 Mar 17 j 21:39	0°♁	
	920 Oct 02 j 12:17	0°♁			923 Apr 11 j 20:50	0°♁	
	920 Oct 28 j 08:17	0°♁			923 May 07 j 12:20	0°♁	
	920 Nov 22 j 02:51	0°♁			923 Jun 03 j 08:22	0°♄	
	920 Dec 16 j 10:21	0°♁		evening max el	923 Jun 28 j 05:18	25°♄29'25	45°34'03
	921 Jan 09 j 13:47	0°♄			923 Jul 03 j 00:56	0°♁	
desc. node	921 Jan 16 j 20:32	9°♄03'39		desc. node	923 Jul 04 j 15:35	1°♁27'53	
	921 Feb 02 j 16:31	0°♁		greatest brilliancy	923 Aug 04 j 17:12	22°♁57'28	-4.5m
	921 Feb 26 j 20:07	0°♁		retrograde	923 Aug 16 j 00:09	25°♁12'51	
morning set	921 Mar 12 j 01:41	16°♁24'03		evening set	923 Sep 02 j 23:09	19°♁12'49	
	921 Mar 23 j 01:27	0°♁		inferior conj	923 Sep 06 j 01:21	17°♁20'11	-8°-40'-41
	921 Apr 16 j 08:57	0°♁		minimum elong	923 Sep 06 j 04:43	17°♁15'00	8°40'33
				min. Earth dist.	923 Sep 06 j 19:14	16°♁52'42	0.27956 AU
superior conj	921 Apr 19 j 02:21	3°♁21'23	0°-46'-55	morning rise	923 Sep 09 j 10:05	15°♁17'32	
minimum elong	921 Apr 19 j 11:01	3°♁48'03	0°46'35	direct	923 Sep 27 j 06:17	9°♁17'34	
max. Earth dist.	921 Apr 20 j 19:49	5°♁29'01	1.73311 AU	greatest brilliancy	923 Oct 11 j 11:53	12°♁58'24	-4.6m
asc. node	921 May 10 j 00:07	29°♁03'55		asc. node	923 Oct 25 j 18:59	22°♁12'24	
	921 May 10 j 18:23	0°♁			923 Nov 03 j 23:58	0°♁	
evening rise	921 May 26 j 00:27	18°♁43'22		morning max el	923 Nov 16 j 22:43	12°♁30'54	46°50'43
	921 Jun 04 j 05:10	0°♁			923 Dec 03 j 07:58	0°♁	
	921 Jun 28 j 17:02	0°♄			923 Dec 29 j 11:30	0°♁	
	921 Jul 23 j 06:41	0°♁			924 Jan 23 j 14:47	0°♄	
	921 Aug 16 j 23:43	0°♁		desc. node	924 Feb 14 j 08:28	26°♄20'05	
desc. node	921 Aug 29 j 13:19	15°♁09'21			924 Feb 17 j 08:48	0°♁	
	921 Sep 10 j 22:21	0°♁			924 Mar 12 j 23:17	0°♁	
	921 Oct 06 j 06:22	0°♁			924 Apr 06 j 12:41	0°♁	
	921 Nov 01 j 09:21	0°♄			924 May 01 j 01:45	0°♁	
evening max el	921 Nov 23 j 09:46	23°♄41'41	47°21'29	morning set	924 May 20 j 11:33	23°♁44'42	
	921 Nov 29 j 17:20	0°♁			924 May 25 j 14:09	0°♁	
asc. node	921 Dec 20 j 16:38	18°♁02'47		asc. node	924 Jun 06 j 11:50	14°♁35'37	
greatest brilliancy	921 Dec 31 j 08:40	24°♁23'10	-4.7m		924 Jun 19 j 00:56	0°♁	
retrograde	922 Jan 13 j 11:31	27°♁37'11		max. Earth dist.	924 Jun 23 j 16:02	5°♄41'32	1.73490 AU
evening set	922 Jan 30 j 17:46	21°♁46'08					
min. Earth dist.	922 Feb 02 j 12:28	20°♁03'26	0.27558 AU	superior conj	924 Jun 25 j 21:04	8°♄24'40	0°43'49
inferior conj	922 Feb 03 j 08:57	19°♁31'21	8°26'14	minimum elong	924 Jun 25 j 13:25	8°♄01'08	0°43'30
minimum elong	922 Feb 03 j 03:26	19°♁40'01	8°25'46		924 Jul 13 j 09:24	0°♄	
morning rise	922 Feb 06 j 13:20	17°♁33'21		evening rise	924 Jul 31 j 16:21	22°♄36'02	
direct	922 Feb 24 j 01:03	11°♁37'53			924 Aug 06 j 15:51	0°♁	
greatest brilliancy	922 Mar 06 j 18:47	13°♁45'33	-4.6m		924 Aug 30 j 21:23	0°♁	
	922 Mar 31 j 17:06	0°♁			924 Sep 24 j 03:22	0°♁	
desc. node	922 Apr 11 j 06:06	9°♁29'34		desc. node	924 Sep 26 j 01:22	2°♁22'09	
morning max el	922 Apr 14 j 08:55	12°♁28'25	46°04'46		924 Oct 18 j 10:53	0°♁	
	922 May 01 j 15:00	0°♁			924 Nov 11 j 21:31	0°♄	
	922 May 28 j 23:55	0°♁			924 Dec 06 j 15:09	0°♁	
	922 Jun 24 j 02:22	0°♁			925 Jan 01 j 01:23	0°♁	
	922 Jul 19 j 11:10	0°♁		asc. node	925 Jan 17 j 04:28	18°♁11'01	
asc. node	922 Aug 02 j 09:30	16°♄46'20			925 Jan 28 j 05:19	0°♁	
	922 Aug 13 j 06:39	0°♄		evening max el	925 Feb 03 j 00:46	5°♁56'37	46°30'17
	922 Sep 06 j 15:38	0°♁			925 Mar 03 j 02:04	0°♁	
	922 Sep 30 j 17:18	0°♁		greatest brilliancy	925 Mar 10 j 10:36	4°♁13'34	-4.6m
greatest brilliancy	922 Oct 05 j 00:01	5°♁21'40	-3.9m	retrograde	925 Mar 24 j 23:19	7°♁59'33	
morning set	922 Oct 08 j 20:08	10°♁10'23		evening set	925 Apr 10 j 05:32	2°♁50'26	
	922 Oct 24 j 14:55	0°♁			925 Apr 14 j 20:21	30°♁	
	922 Nov 17 j 11:03	0°♁		inferior conj	925 Apr 15 j 07:07	29°♁42'57	5°10'04
				minimum elong	925 Apr 15 j 16:20	29°♁28'23	5°07'54
superior conj	922 Nov 17 j 19:48	0°♁27'34	0°09'52	min. Earth dist.	925 Apr 15 j 08:42	29°♁40'27	0.28773 AU
minimum elong	922 Nov 17 j 22:24	0°♁35'45	0°09'44	morning rise	925 Apr 21 j 03:28	26°♁09'31	

direct	925 May 06 j 18:08	21°♃28'19		desc. node	927 Oct 24 j 13:13	18°♌53'53	
desc. node	925 May 08 j 17:49	21°♃32'52			927 Nov 02 j 10:01	0°♁	
greatest brilliancy	925 May 19 j 07:09	24°♃15'49	-4.5m		927 Nov 26 j 09:48	0°♁	
	925 May 29 j 19:36	0°♁			927 Dec 20 j 11:39	0°♁	
morning max el	925 Jun 24 j 11:57	21°♁13'38	45°44'04		928 Jan 13 j 18:27	0°♁	
	925 Jul 03 j 10:25	0°♁			928 Feb 07 j 11:27	0°♃	
	925 Jul 31 j 11:47	0°♁		asc. node	928 Feb 14 j 16:28	8°♃35'53	
	925 Aug 26 j 13:53	0°♁			928 Mar 03 j 23:43	0°♁	
asc. node	925 Aug 29 j 21:26	3°♁54'47			928 Mar 31 j 02:22	0°♁	
	925 Sep 20 j 14:41	0°♁		evening max el	928 Apr 14 j 17:48	14°♁49'49	45°28'32
	925 Oct 15 j 00:15	0°♁			928 May 01 j 19:46	0°♁	
	925 Nov 08 j 01:24	0°♁		greatest brilliancy	928 May 19 j 03:18	11°♁11'25	-4.5m
	925 Dec 01 j 22:55	0°♁		retrograde	928 Jun 02 j 09:42	14°♁44'44	
desc. node	925 Dec 19 j 10:43	21°♁59'17		desc. node	928 Jun 05 j 05:45	14°♁35'14	
morning set	925 Dec 23 j 15:28	27°♁15'51		evening set	928 Jun 17 j 16:51	10°♁15'32	
	925 Dec 25 j 19:44	0°♁		inferior conj	928 Jun 23 j 21:29	6°♁33'50	-4°-11'-45
	926 Jan 18 j 17:27	0°♁		minimum elong	928 Jun 23 j 13:12	6°♁46'45	4°09'38
				min. Earth dist.	928 Jun 23 j 22:15	6°♁32'39	0.28961 AU
superior conj	926 Feb 03 j 06:22	19°♁26'56	-1°-22'-1	morning rise	928 Jun 29 j 09:18	3°♁14'29	
minimum elong	926 Feb 02 j 23:49	19°♁06'30	1°21'56		928 Jul 06 j 04:23	30°♁	
max. Earth dist.	926 Feb 07 j 10:01	24°♁38'13	1.71787 AU	direct	928 Jul 15 j 12:43	28°♁16'06	
	926 Feb 11 j 17:07	0°♁			928 Jul 25 j 07:52	0°♁	
	926 Mar 07 j 19:47	0°♃		greatest brilliancy	928 Jul 29 j 18:34	1°♁47'16	-4.5m
evening rise	926 Mar 15 j 03:16	9°♃03'30		morning max el	928 Sep 02 j 21:15	28°♁53'24	46°09'03
	926 Apr 01 j 02:31	0°♁			928 Sep 04 j 00:25	0°♁	
asc. node	926 Apr 11 j 14:17	12°♁53'05		asc. node	928 Sep 26 j 09:19	23°♁32'46	
	926 Apr 25 j 14:07	0°♁			928 Oct 02 j 03:53	0°♁	
	926 May 20 j 07:23	0°♁			928 Oct 27 j 21:43	0°♁	
	926 Jun 14 j 07:52	0°♁			928 Nov 21 j 15:16	0°♁	
	926 Jul 09 j 19:08	0°♁			928 Dec 15 j 22:11	0°♁	
desc. node	926 Aug 01 j 03:25	25°♁37'28			929 Jan 09 j 01:14	0°♁	
	926 Aug 05 j 01:00	0°♁		desc. node	929 Jan 15 j 22:40	8°♁35'02	
	926 Sep 01 j 21:51	0°♁			929 Feb 02 j 03:38	0°♁	
evening max el	926 Sep 09 j 08:27	7°♁27'17	46°41'43		929 Feb 26 j 06:58	0°♁	
	926 Oct 05 j 15:35	0°♁		morning set	929 Mar 09 j 15:58	14°♁06'16	
greatest brilliancy	926 Oct 18 j 11:04	7°♁02'08	-4.6m		929 Mar 22 j 12:09	0°♃	
retrograde	926 Oct 29 j 08:24	9°♁14'15			929 Apr 15 j 19:33	0°♁	
evening set	926 Nov 12 j 19:48	5°♁07'49					
inferior conj	926 Nov 18 j 21:36	1°♁35'33	0°-52'-44	superior conj	929 Apr 16 j 19:04	1°♁12'27	0°-49'-39
minimum elong	926 Nov 18 j 23:37	1°♁32'28	0°52'06	minimum elong	929 Apr 17 j 04:04	1°♁40'09	0°49'19
min. Earth dist.	926 Nov 18 j 23:32	1°♁32'37	0.26391 AU	max. Earth dist.	929 Apr 18 j 15:30	3°♁29'13	1.73281 AU
	926 Nov 21 j 12:50	30°♁		asc. node	929 May 09 j 02:04	28°♁37'22	
asc. node	926 Nov 22 j 06:43	29°♁33'37			929 May 10 j 04:59	0°♁	
morning rise	926 Nov 25 j 03:12	27°♁57'46		evening rise	929 May 23 j 19:04	16°♁40'41	
direct	926 Dec 09 j 05:53	23°♁58'50			929 Jun 03 j 15:51	0°♁	
greatest brilliancy	926 Dec 21 j 10:18	26°♁44'32	-4.7m		929 Jun 28 j 03:57	0°♁	
	926 Dec 27 j 17:57	0°♁			929 Jul 22 j 17:59	0°♁	
morning max el	927 Jan 28 j 15:22	26°♁50'19	46°47'59		929 Aug 16 j 11:38	0°♁	
	927 Jan 31 j 18:11	0°♁		desc. node	929 Aug 28 j 15:28	14°♁38'45	
	927 Feb 28 j 11:35	0°♁			929 Sep 10 j 11:14	0°♁	
desc. node	927 Mar 13 j 20:26	15°♁13'32			929 Oct 05 j 20:45	0°♁	
	927 Mar 26 j 14:27	0°♁			929 Nov 01 j 02:38	0°♁	
	927 Apr 21 j 01:50	0°♃		evening max el	929 Nov 21 j 01:22	21°♁22'06	47°21'52
	927 May 16 j 05:15	0°♁			929 Nov 29 j 19:03	0°♁	
	927 Jun 10 j 02:59	0°♁		asc. node	929 Dec 19 j 18:46	16°♁42'02	
	927 Jul 04 j 19:09	0°♁		greatest brilliancy	929 Dec 28 j 23:55	22°♁01'15	-4.7m
asc. node	927 Jul 04 j 23:43	0°♁13'56		retrograde	930 Jan 11 j 02:41	25°♁14'37	
morning set	927 Jul 28 j 01:31	28°♁33'52		evening set	930 Jan 28 j 04:42	19°♁28'49	
	927 Jul 29 j 05:26	0°♁		min. Earth dist.	930 Jan 31 j 01:28	17°♁43'08	0.27491 AU
	927 Aug 22 j 10:23	0°♁		inferior conj	930 Jan 31 j 22:57	17°♁09'35	8°20'07
max. Earth dist.	927 Aug 30 j 07:13	9°♁47'58	1.72223 AU	minimum elong	930 Jan 31 j 16:42	17°♁19'21	8°19'30
				morning rise	930 Feb 04 j 04:59	15°♁09'21	
superior conj	927 Sep 02 j 20:24	14°♁13'31	1°24'10	direct	930 Feb 21 j 14:53	9°♁17'19	
minimum elong	927 Sep 02 j 22:37	14°♁20'25	1°24'10	greatest brilliancy	930 Mar 04 j 06:28	11°♁23'38	-4.6m
	927 Sep 15 j 11:35	0°♁			930 Mar 31 j 22:55	0°♁	
	927 Oct 09 j 10:57	0°♁		desc. node	930 Apr 10 j 08:06	8°♁38'01	
evening rise	927 Oct 11 j 08:10	2°♁21'32		morning max el	930 Apr 12 j 00:05	10°♁14'16	46°06'09

	930 May 01 j 08:26	0°♃			932 Dec 06 j 04:33	0°♁		
	930 May 28 j 13:52	0°♄			932 Dec 31 j 16:38	0°♃		
	930 Jun 23 j 14:46	0°♅		asc. node	933 Jan 16 j 06:37	17°♃29'19		
	930 Jul 18 j 22:45	0°♆			933 Jan 28 j 01:21	0°♃		
asc. node	930 Aug 01 j 11:38	16°♆18'35		evening max el	933 Jan 31 j 15:10	3°♃38'10	46°32'48	
	930 Aug 12 j 17:46	0°♇			933 Mar 04 j 07:31	0°♄		
	930 Sep 06 j 02:32	0°♈		greatest brilliancy	933 Mar 08 j 04:41	2°♄04'26	-4.6m	
	930 Sep 30 j 04:08	0°♉		retrograde	933 Mar 22 j 15:19	5°♄48'50		
morning set	930 Oct 06 j 09:48	7°♉48'49		evening set	933 Apr 08 j 00:31	0°♄36'04		
	930 Oct 24 j 01:45	0°♊			933 Apr 09 j 00:49	30°♃		
				inferior conj	933 Apr 12 j 23:27	27°♃32'29	5°26'02	
superior conj	930 Nov 15 j 05:59	27°♌54'19	0°13'47	minimum elong	933 Apr 13 j 08:50	27°♃17'37	5°23'54	
minimum elong	930 Nov 15 j 09:35	28°♌05'38	0°13'37	min. Earth dist.	933 Apr 13 j 01:06	27°♃29'51	0.28749 AU	
behind sun begin	930 Nov 14 j 18:55	27°♌19'28		morning rise	933 Apr 18 j 17:26	24°♃02'01		
behind sun end	930 Nov 16 j 00:15	28°♌51'47		direct	933 May 04 j 09:29	19°♃18'14		
max. Earth dist.	930 Nov 15 j 09:46	28°♌06'13	1.71072 AU	desc. node	933 May 07 j 19:49	19°♃31'38		
	930 Nov 16 j 21:55	0°♋		greatest brilliancy	933 May 16 j 21:10	22°♃03'44	-4.5m	
desc. node	930 Nov 21 j 00:58	5°♋11'43			933 May 30 j 15:34	0°♄		
	930 Dec 10 j 18:09	0°♌		morning max el	933 Jun 22 j 02:54	19°♄01'52	45°44'06	
evening rise	930 Dec 26 j 21:52	20°♌17'42			933 Jul 03 j 05:21	0°♅		
	931 Jan 03 j 15:34	0°♍			933 Jul 31 j 02:13	0°♆		
	931 Jan 27 j 15:38	0°♎			933 Aug 26 j 02:35	0°♇		
	931 Feb 20 j 20:32	0°♏		asc. node	933 Aug 28 j 23:30	3°♇23'47		
asc. node	931 Mar 14 j 04:26	26°♏07'12			933 Sep 20 j 02:34	0°♈		
	931 Mar 17 j 09:06	0°♐			933 Oct 14 j 11:45	0°♉		
	931 Apr 11 j 08:54	0°♑			933 Nov 07 j 12:41	0°♊		
	931 May 07 j 01:42	0°♒			933 Dec 01 j 10:05	0°♋		
	931 Jun 03 j 00:41	0°♌		desc. node	933 Dec 18 j 12:53	21°♋31'10		
evening max el	931 Jun 25 j 20:11	23°♌16'08	45°32'21	morning set	933 Dec 21 j 00:58	24°♋39'59		
	931 Jul 03 j 02:42	0°♍			933 Dec 25 j 06:48	0°♌		
desc. node	931 Jul 03 j 17:42	0°♍33'26			934 Jan 18 j 04:26	0°♍		
greatest brilliancy	931 Aug 02 j 05:46	20°♍40'09	-4.5m					
retrograde	931 Aug 13 j 13:26	22°♍56'08		superior conj	934 Jan 31 j 17:32	16°♍57'38	-1°-20'-49	
evening set	931 Aug 31 j 13:42	16°♍55'25		minimum elong	934 Jan 31 j 10:07	16°♍34'26	1°20'42	
inferior conj	931 Sep 03 j 15:39	15°♍02'55	-8°-43'-8	max. Earth dist.	934 Feb 04 j 18:29	22°♍00'36	1.71732 AU	
minimum elong	931 Sep 03 j 18:09	14°♍59'03	8°43'04		934 Feb 11 j 04:02	0°♎		
min. Earth dist.	931 Sep 04 j 09:00	14°♍36'12	0.28017 AU		934 Mar 07 j 06:41	0°♏		
morning rise	931 Sep 06 j 22:25	13°♍02'52		evening rise	934 Mar 12 j 16:46	6°♏42'59		
direct	931 Sep 24 j 21:17	6°♍59'32			934 Mar 31 j 13:27	0°♐		
greatest brilliancy	931 Oct 09 j 02:29	10°♍39'07	-4.6m	asc. node	934 Apr 10 j 16:16	12°♐25'28		
asc. node	931 Oct 24 j 20:55	21°♍02'25			934 Apr 25 j 01:14	0°♑		
	931 Nov 04 j 03:54	0°♒			934 May 19 j 18:51	0°♒		
morning max el	931 Nov 14 j 12:12	10°♒06'50	46°49'42		934 Jun 13 j 19:58	0°♓		
	931 Dec 03 j 01:31	0°♑			934 Jul 09 j 08:24	0°♈		
	931 Dec 29 j 01:58	0°♒		desc. node	934 Jul 31 j 05:33	25°♈01'01		
	932 Jan 23 j 03:46	0°♓			934 Aug 04 j 16:35	0°♉		
desc. node	932 Feb 13 j 10:33	25°♓49'12			934 Sep 01 j 19:05	0°♊		
	932 Feb 16 j 20:55	0°♁		evening max el	934 Sep 06 j 20:39	5°♊01'56	46°39'06	
	932 Mar 12 j 10:50	0°♃			934 Oct 06 j 22:46	0°♋		
	932 Apr 05 j 23:48	0°♄		greatest brilliancy	934 Oct 16 j 00:14	4°♋34'17	-4.6m	
	932 Apr 30 j 12:33	0°♅		retrograde	934 Oct 26 j 20:09	6°♋45'19		
morning set	932 May 18 j 05:54	21°♅41'28		evening set	934 Nov 10 j 09:12	2°♋36'36		
	932 May 25 j 00:44	0°♆			934 Nov 14 j 22:25	30°♌		
asc. node	932 Jun 05 j 13:57	14°♆09'44		inferior conj	934 Nov 16 j 09:40	29°♌06'38	-1°-17'-16	
	932 Jun 18 j 11:27	0°♇		minimum elong	934 Nov 16 j 12:36	29°♌02'10	1°16'20	
max. Earth dist.	932 Jun 21 j 12:07	3°♇43'23	1.73512 AU	min. Earth dist.	934 Nov 16 j 13:23	29°♌00'59	0.26413 AU	
				asc. node	934 Nov 21 j 08:54	26°♌10'22		
superior conj	932 Jun 23 j 15:54	6°♇22'36	0°41'09	morning rise	934 Nov 22 j 15:41	25°♌28'29		
minimum elong	932 Jun 23 j 08:34	6°♇00'04	0°40'49	direct	934 Dec 06 j 18:04	21°♌29'05		
	932 Jul 12 j 19:59	0°♈		greatest brilliancy	934 Dec 19 j 02:12	24°♌19'05	-4.7m	
evening rise	932 Jul 29 j 10:39	20°♈31'06			934 Dec 29 j 04:06	0°♉		
	932 Aug 06 j 02:36	0°♈		morning max el	935 Jan 26 j 05:03	24°♉25'39	46°49'09	
	932 Aug 30 j 08:25	0°♉			935 Jan 31 j 15:54	0°♊		
	932 Sep 23 j 14:44	0°♊			935 Feb 28 j 03:38	0°♋		
desc. node	932 Sep 25 j 03:20	1°♊53'01		desc. node	935 Mar 12 j 22:26	14°♋37'04		
	932 Oct 17 j 22:42	0°♋			935 Mar 26 j 04:09	0°♌		
	932 Nov 11 j 09:57	0°♌			935 Apr 20 j 14:17	0°♍		

	935 May 15 j 16:56	0°♄			937 Nov 29 j 22:27	0°♁	
	935 Jun 09 j 14:13	0°♁		asc. node	937 Dec 18 j 20:50	15°♁17'39	
asc. node	935 Jul 04 j 01:51	29°♁47'00		greatest brilliancy	937 Dec 26 j 15:35	19°♁38'54	-4.7m
	935 Jul 04 j 06:06	0°♁		retrograde	938 Jan 08 j 17:27	22°♁50'32	
morning set	935 Jul 25 j 19:11	26°♁26'59		evening set	938 Jan 25 j 15:23	17°♁10'29	
	935 Jul 28 j 16:15	0°♁		min. Earth dist.	938 Jan 28 j 14:37	15°♁21'07	0.27430 AU
	935 Aug 21 j 21:10	0°♁		inferior conj	938 Jan 29 j 12:52	14°♁46'21	8°12'57
max. Earth dist.	935 Aug 28 j 01:24	7°♁41'22	1.72275 AU	minimum elong	938 Jan 29 j 05:57	14°♁57'08	8°12'11
				morning rise	938 Feb 01 j 20:52	12°♁43'16	
superior conj	935 Aug 31 j 12:53	12°♁01'31	1°24'29	direct	938 Feb 19 j 04:52	6°♁55'19	
minimum elong	935 Aug 31 j 14:21	12°♁06'07	1°24'29	greatest brilliancy	938 Mar 01 j 18:18	9°♁00'01	-4.6m
	935 Sep 14 j 22:26	0°♁			938 Apr 01 j 03:31	0°♁	
evening rise	935 Oct 08 j 21:16	29°♁57'47		morning max el	938 Apr 09 j 14:33	7°♁56'38	46°07'26
	935 Oct 08 j 21:59	0°♁		desc. node	938 Apr 09 j 10:08	7°♁45'54	
desc. node	935 Oct 23 j 15:15	18°♁25'21			938 May 01 j 02:05	0°♁	
	935 Nov 01 j 21:16	0°♁			938 May 28 j 04:12	0°♁	
	935 Nov 25 j 21:17	0°♁			938 Jun 23 j 03:32	0°♁	
	935 Dec 19 j 23:25	0°♁			938 Jul 18 j 10:40	0°♁	
	936 Jan 13 j 06:37	0°♁		asc. node	938 Jul 31 j 13:36	15°♁49'16	
	936 Feb 07 j 00:21	0°♁			938 Aug 12 j 05:14	0°♁	
asc. node	936 Feb 13 j 18:30	8°♁02'48			938 Sep 05 j 13:47	0°♁	
	936 Mar 03 j 14:07	0°♁			938 Sep 29 j 15:18	0°♁	
	936 Mar 30 j 20:31	0°♁		morning set	938 Oct 03 j 23:52	5°♁27'32	
evening max el	936 Apr 12 j 10:08	12°♁39'56	45°29'55		938 Oct 23 j 12:55	0°♁	
	936 May 02 j 06:55	0°♁					
greatest brilliancy	936 May 16 j 17:37	9°♁00'13	-4.5m	superior conj	938 Nov 12 j 16:52	25°♁22'25	0°17'37
retrograde	936 May 31 j 02:31	12°♁35'54		minimum elong	938 Nov 12 j 21:24	25°♁36'41	0°17'24
desc. node	936 Jun 04 j 07:56	12°♁14'41		max. Earth dist.	938 Nov 12 j 14:45	25°♁15'45	1.71081 AU
evening set	936 Jun 15 j 07:46	8°♁08'20			938 Nov 16 j 09:05	0°♁	
inferior conj	936 Jun 21 j 13:45	4°♁24'29	-3°-54'-14	desc. node	938 Nov 20 j 03:11	4°♁43'29	
minimum elong	936 Jun 21 j 05:54	4°♁36'42	3°52'11		938 Dec 10 j 05:21	0°♁	
min. Earth dist.	936 Jun 21 j 14:04	4°♁23'59	0.28966 AU	evening rise	938 Dec 24 j 08:03	17°♁43'47	
morning rise	936 Jun 27 j 03:54	1°♁02'03			939 Jan 03 j 02:49	0°♁	
	936 Jun 29 j 01:34	30°♁			939 Jan 27 j 03:01	0°♁	
direct	936 Jul 13 j 05:33	26°♁06'41			939 Feb 20 j 08:07	0°♁	
greatest brilliancy	936 Jul 27 j 10:17	29°♁37'16	-4.5m	asc. node	939 Mar 13 j 06:25	25°♁37'09	
	936 Jul 28 j 05:33	0°♁			939 Mar 16 j 21:03	0°♁	
morning max el	936 Aug 31 j 13:48	26°♁42'58	46°07'43		939 Apr 10 j 21:33	0°♁	
	936 Sep 03 j 21:38	0°♁			939 May 06 j 15:44	0°♁	
asc. node	936 Sep 25 j 11:15	22°♁53'06			939 Jun 02 j 17:54	0°♁	
	936 Oct 01 j 19:20	0°♁		evening max el	939 Jun 23 j 10:05	20°♁59'04	45°30'53
	936 Oct 27 j 11:09	0°♁		desc. node	939 Jul 02 j 19:47	29°♁36'14	
	936 Nov 21 j 03:47	0°♁			939 Jul 03 j 06:41	0°♁	
	936 Dec 15 j 10:12	0°♁		greatest brilliancy	939 Jul 30 j 18:27	18°♁21'46	-4.5m
	937 Jan 08 j 12:55	0°♁		retrograde	939 Aug 11 j 02:32	20°♁38'35	
desc. node	937 Jan 15 j 00:45	8°♁05'18		evening set	939 Aug 29 j 03:56	14°♁37'32	
	937 Feb 01 j 15:05	0°♁		inferior conj	939 Sep 01 j 06:00	12°♁44'46	-8°-44'-51
	937 Feb 25 j 18:12	0°♁		minimum elong	939 Sep 01 j 07:39	12°♁42'15	8°44'49
morning set	937 Mar 07 j 05:34	11°♁45'04		min. Earth dist.	939 Sep 01 j 23:02	12°♁18'31	0.28074 AU
	937 Mar 21 j 23:13	0°♁		morning rise	939 Sep 04 j 11:08	10°♁46'56	
				direct	939 Sep 22 j 11:51	4°♁40'27	
superior conj	937 Apr 14 j 11:12	29°♁00'30	0°-52'-21	greatest brilliancy	939 Oct 06 j 18:08	8°♁20'14	-4.6m
minimum elong	937 Apr 14 j 20:28	29°♁29'04	0°52'00	asc. node	939 Oct 23 j 23:06	19°♁53'46	
	937 Apr 15 j 06:31	0°♁			939 Nov 04 j 06:41	0°♁	
max. Earth dist.	937 Apr 16 j 12:17	1°♁31'43	1.73244 AU	morning max el	939 Nov 12 j 01:18	7°♁40'47	46°48'51
asc. node	937 May 08 j 04:11	28°♁10'17			939 Dec 02 j 19:02	0°♁	
	937 May 09 j 15:55	0°♁			939 Dec 28 j 16:32	0°♁	
evening rise	937 May 21 j 13:23	14°♁36'05		desc. node	940 Jan 22 j 16:56	0°♁	
	937 Jun 03 j 02:52	0°♁			940 Feb 12 j 12:34	25°♁17'28	
	937 Jun 27 j 15:12	0°♁			940 Feb 16 j 09:15	0°♁	
	937 Jul 22 j 05:38	0°♁			940 Mar 11 j 22:38	0°♁	
	937 Aug 15 j 23:53	0°♁			940 Apr 05 j 11:14	0°♁	
desc. node	937 Aug 27 j 17:27	14°♁06'50			940 Apr 29 j 23:43	0°♁	
	937 Sep 10 j 00:24	0°♁		morning set	940 May 15 j 23:52	19°♁35'41	
	937 Oct 05 j 11:27	0°♁			940 May 24 j 11:45	0°♁	
	937 Oct 31 j 20:26	0°♁		asc. node	940 Jun 04 j 16:06	13°♁42'38	
evening max el	937 Nov 18 j 17:14	19°♁02'38	47°21'55		940 Jun 17 j 22:23	0°♁	

max. Earth dist.	940 Jun 19 j 07:15	1°♄41'02	1.73533 AU	min. Earth dist.	942 Nov 14 j 02:48	26°♍29'29	0.26435 AU
superior conj	940 Jun 21 j 10:22	4°♄18'09	0°38'23	morning rise	942 Nov 20 j 03:56	22°♍59'14	
minimum elong	940 Jun 21 j 03:24	3°♄56'43	0°38'04	asc. node	942 Nov 20 j 11:00	22°♍49'57	
	940 Jul 12 j 06:58	0°♁		direct	942 Dec 04 j 06:49	18°♍59'06	
evening rise	940 Jul 27 j 04:43	18°♁24'26		greatest brilliancy	942 Dec 16 j 17:22	21°♍52'33	-4.7m
	940 Aug 05 j 13:44	0°♎			942 Dec 30 j 04:42	0°♎	
	940 Aug 29 j 19:48	0°♎		morning max el	943 Jan 23 j 19:25	22°♎02'26	46°50'12
	940 Sep 23 j 02:28	0°♍			943 Jan 31 j 12:57	0°♎	
desc. node	940 Sep 24 j 05:23	1°♍23'04			943 Feb 27 j 19:30	0°♍	
	940 Oct 17 j 10:53	0°♎		desc. node	943 Mar 12 j 00:29	14°♍00'46	
	940 Nov 10 j 22:46	0°♎			943 Mar 25 j 17:48	0°♎	
	940 Dec 05 j 18:21	0°♎			943 Apr 20 j 02:43	0°♎	
	940 Dec 31 j 08:20	0°♎			943 May 15 j 04:38	0°♎	
asc. node	941 Jan 15 j 08:39	16°♎46'11		asc. node	943 Jun 09 j 01:28	0°♎	
	941 Jan 27 j 22:16	0°♎			943 Jul 03 j 03:50	29°♎19'23	
evening max el	941 Jan 29 j 05:00	1°♎17'40	46°35'22	morning set	943 Jul 03 j 17:07	0°♎	
greatest brilliancy	941 Mar 05 j 21:25	29°♎52'49	-4.6m		943 Jul 23 j 12:46	24°♎19'37	
	941 Mar 06 j 03:22	0°♎			943 Jul 28 j 03:10	0°♎	
retrograde	941 Mar 20 j 07:23	3°♎37'33			943 Aug 21 j 08:05	0°♎	
	941 Apr 02 j 19:29	30°♎		max. Earth dist.	943 Aug 25 j 17:35	5°♎28'12	1.72328 AU
evening set	941 Apr 05 j 19:30	28°♎20'39		superior conj	943 Aug 29 j 05:11	9°♎48'36	1°24'40
inferior conj	941 Apr 10 j 15:46	25°♎21'11	5°41'30	minimum elong	943 Aug 29 j 05:54	9°♎50'48	1°24'39
minimum elong	941 Apr 11 j 01:18	25°♎06'06	5°39'23		943 Sep 14 j 09:26	0°♎	
min. Earth dist.	941 Apr 10 j 17:27	25°♎18'32	0.28731 AU	evening rise	943 Oct 06 j 10:06	27°♎32'52	
morning rise	941 Apr 16 j 07:18	21°♎54'01			943 Oct 08 j 09:08	0°♎	
direct	941 May 02 j 00:47	17°♎07'03		desc. node	943 Oct 22 j 17:25	17°♎56'56	
desc. node	941 May 06 j 22:01	17°♎33'57			943 Nov 01 j 08:35	0°♎	
greatest brilliancy	941 May 14 j 12:22	19°♎52'05	-4.5m		943 Nov 25 j 08:49	0°♎	
	941 May 31 j 06:54	0°♎			943 Dec 19 j 11:12	0°♎	
morning max el	941 Jun 19 j 18:21	16°♎50'10	45°44'05		944 Jan 12 j 18:49	0°♎	
	941 Jul 03 j 00:14	0°♎			944 Feb 06 j 13:19	0°♎	
	941 Jul 30 j 16:54	0°♎		asc. node	944 Feb 12 j 20:31	7°♎29'33	
	941 Aug 25 j 15:34	0°♎			944 Mar 03 j 04:39	0°♎	
asc. node	941 Aug 28 j 01:33	2°♎51'42			944 Mar 30 j 15:02	0°♎	
	941 Sep 19 j 14:43	0°♎		evening max el	944 Apr 10 j 02:56	10°♎31'25	45°31'21
	941 Oct 13 j 23:28	0°♎			944 May 02 j 21:41	0°♎	
	941 Nov 07 j 00:10	0°♎		greatest brilliancy	944 May 14 j 09:06	6°♎51'00	-4.5m
	941 Nov 30 j 21:26	0°♎		retrograde	944 May 28 j 19:16	10°♎27'35	
desc. node	941 Dec 17 j 14:55	21°♎02'00		desc. node	944 Jun 03 j 09:55	9°♎50'08	
morning set	941 Dec 18 j 10:31	22°♎03'36		evening set	944 Jun 12 j 23:01	6°♎01'43	
	941 Dec 24 j 18:05	0°♎		inferior conj	944 Jun 19 j 06:08	2°♎15'48	-3°-36'-25
	942 Jan 17 j 15:38	0°♎		minimum elong	944 Jun 18 j 22:47	2°♎27'17	3°34'27
				min. Earth dist.	944 Jun 19 j 06:02	2°♎15'58	0.28971 AU
superior conj	942 Jan 29 j 04:44	14°♎27'45	-1°-19'-26		944 Jun 22 j 22:29	30°♎	
minimum elong	942 Jan 28 j 20:29	14°♎01'56	1°19'18	morning rise	944 Jun 24 j 22:29	28°♎50'16	
max. Earth dist.	942 Feb 02 j 01:27	19°♎17'39	1.71678 AU	direct	944 Jul 10 j 22:37	23°♎58'07	
	942 Feb 10 j 15:08	0°♎		greatest brilliancy	944 Jul 25 j 01:02	27°♎26'31	-4.5m
	942 Mar 06 j 17:43	0°♎			944 Jul 29 j 23:07	0°♎	
evening rise	942 Mar 10 j 06:24	4°♎22'22		morning max el	944 Aug 29 j 05:44	24°♎31'13	46°06'07
	942 Mar 31 j 00:32	0°♎			944 Sep 03 j 18:06	0°♎	
asc. node	942 Apr 09 j 18:27	11°♎57'58		asc. node	944 Sep 24 j 13:27	22°♎14'25	
	942 Apr 24 j 12:31	0°♎			944 Oct 01 j 10:37	0°♎	
	942 May 19 j 06:32	0°♎			944 Oct 27 j 00:32	0°♎	
	942 Jun 13 j 08:22	0°♎			944 Nov 20 j 16:15	0°♎	
	942 Jul 08 j 22:05	0°♎			944 Dec 14 j 22:09	0°♎	
desc. node	942 Jul 30 j 07:31	24°♎22'58			945 Jan 08 j 00:30	0°♎	
	942 Aug 04 j 08:44	0°♎		desc. node	945 Jan 14 j 02:45	7°♎35'44	
	942 Sep 01 j 17:27	0°♎			945 Feb 01 j 02:22	0°♎	
evening max el	942 Sep 04 j 09:35	2°♎37'55	46°36'39		945 Feb 25 j 05:17	0°♎	
	942 Oct 08 j 20:43	0°♎		morning set	945 Mar 04 j 19:07	9°♎24'09	
greatest brilliancy	942 Oct 13 j 12:29	2°♎05'09	-4.6m		945 Mar 21 j 10:08	0°♎	
retrograde	942 Oct 24 j 08:25	4°♎16'03					
evening set	942 Nov 07 j 22:49	0°♎04'50		superior conj	945 Apr 12 j 03:25	26°♎49'13	0°-54'-58
	942 Nov 08 j 02:26	30°♎		minimum elong	945 Apr 12 j 12:54	27°♎18'28	0°54'37
inferior conj	942 Nov 13 j 21:41	26°♎37'14	-1°-41'-40	max. Earth dist.	945 Apr 14 j 09:57	29°♎37'16	1.73203 AU
minimum elong	942 Nov 14 j 01:33	26°♎31'23	1°40'26		945 Apr 14 j 17:19	0°♎	

asc. node	945 May 07 j 06:19	27°♄43'48		947 Dec 02 j 11:50	0°♌	
	945 May 09 j 02:41	0°♈		947 Dec 28 j 06:42	0°♁	
evening rise	945 May 19 j 07:49	12°♈32'19		948 Jan 22 j 05:48	0°♁	
	945 Jun 02 j 13:42	0°♄		948 Feb 11 j 14:40	24°♁46'41	
	945 Jun 27 j 02:15	0°♌		948 Feb 15 j 21:20	0°♁	
	945 Jul 21 j 17:07	0°♍		948 Mar 11 j 10:10	0°♁	
	945 Aug 15 j 12:02	0°♎		948 Apr 04 j 22:20	0°♍	
desc. node	945 Aug 26 j 19:31	13°♎35'28		948 Apr 29 j 10:32	0°♄	
	945 Sep 09 j 13:34	0°♌		948 May 13 j 17:45	17°♄30'41	
	945 Oct 05 j 02:18	0°♁		948 May 23 j 22:23	0°♈	
	945 Oct 31 j 14:37	0°♁		948 Jun 03 j 18:03	13°♈16'04	
evening max el	945 Nov 16 j 08:26	16°♁41'27	47°21'55	948 Jun 17 j 03:39	29°♈43'43	1.73553 AU
	945 Nov 30 j 03:36	0°♁		948 Jun 17 j 08:57	0°♄	
asc. node	945 Dec 17 j 22:51	13°♁50'16				
greatest brilliancy	945 Dec 24 j 08:16	17°♁17'46	-4.7m	superior conj	948 Jun 19 j 04:57	2°♄15'15 0°35'34
retrograde	946 Jan 06 j 07:43	20°♁26'15		minimum elong	948 Jun 18 j 22:23	1°♄55'01 0°35'17
evening set	946 Jan 23 j 01:50	14°♁52'32			948 Jul 11 j 17:35	0°♌
min. Earth dist.	946 Jan 26 j 04:00	12°♁58'43	0.27363 AU	evening rise	948 Jul 24 j 23:11	16°♌20'14
inferior conj	946 Jan 27 j 02:40	12°♁23'15	8°04'52		948 Aug 05 j 00:30	0°♍
minimum elong	946 Jan 26 j 19:09	12°♁35'02	8°03'57		948 Aug 29 j 06:47	0°♎
morning rise	946 Jan 30 j 12:50	10°♁16'55			948 Sep 22 j 13:47	0°♌
direct	946 Feb 16 j 18:19	4°♁33'35		desc. node	948 Sep 23 j 07:35	0°♌54'50
greatest brilliancy	946 Feb 27 j 06:29	6°♁37'02	-4.6m		948 Oct 16 j 22:41	0°♁
	946 Apr 01 j 06:06	0°♁			948 Nov 10 j 11:16	0°♁
morning max el	946 Apr 07 j 03:57	5°♁36'58	46°08'48		948 Dec 05 j 07:56	0°♁
desc. node	946 Apr 08 j 12:21	6°♁55'58			948 Dec 31 j 00:02	0°♁
	946 Apr 30 j 19:03	0°♍		asc. node	949 Jan 14 j 10:42	16°♁03'05
	946 May 27 j 18:04	0°♄		evening max el	949 Jan 26 j 19:10	28°♁58'22 46°37'54
	946 Jun 22 j 15:55	0°♈			949 Jan 27 j 19:44	0°♍
	946 Jul 17 j 22:14	0°♄		greatest brilliancy	949 Mar 03 j 13:38	27°♍40'37 -4.6m
asc. node	946 Jul 30 j 15:43	15°♄21'23			949 Mar 09 j 07:02	0°♄
	946 Aug 11 j 16:22	0°♌		retrograde	949 Mar 17 j 23:44	1°♄26'17
	946 Sep 05 j 00:43	0°♍			949 Mar 26 j 09:23	30°♍
	946 Sep 29 j 02:11	0°♎		evening set	949 Apr 03 j 14:20	26°♍05'00
morning set	946 Oct 01 j 13:59	3°♎07'15		inferior conj	949 Apr 08 j 07:53	23°♍09'48 5°56'29
	946 Oct 22 j 23:50	0°♌		minimum elong	949 Apr 08 j 17:31	22°♍54'35 5°54'26
max. Earth dist.	946 Nov 09 j 16:56	22°♌17'08	1.71101 AU	min. Earth dist.	949 Apr 08 j 09:16	23°♍07'37 0.28709 AU
				morning rise	949 Apr 13 j 20:52	19°♍46'28
superior conj	946 Nov 10 j 03:35	22°♌50'37	0°21'26	direct	949 Apr 29 j 16:02	14°♍55'53
minimum elong	946 Nov 10 j 09:00	23°♌07'42	0°21'10	desc. node	949 May 06 j 00:00	15°♍40'43
	946 Nov 15 j 20:04	0°♁		greatest brilliancy	949 May 12 j 03:29	17°♍40'55 -4.5m
desc. node	946 Nov 19 j 05:12	4°♁15'16			949 May 31 j 18:00	0°♄
	946 Dec 09 j 16:23	0°♁		morning max el	949 Jun 17 j 10:26	14°♄40'58 45°44'13
evening rise	946 Dec 21 j 17:42	15°♁08'36			949 Jul 02 j 18:15	0°♈
	947 Jan 02 j 13:55	0°♁			949 Jul 30 j 07:01	0°♄
	947 Jan 26 j 14:11	0°♁			949 Aug 25 j 04:05	0°♌
	947 Feb 19 j 19:27	0°♍		asc. node	949 Aug 27 j 03:38	2°♌21'03
asc. node	947 Mar 12 j 08:36	25°♍08'35			949 Sep 19 j 02:27	0°♍
	947 Mar 16 j 08:43	0°♄			949 Oct 13 j 10:46	0°♎
	947 Apr 10 j 09:55	0°♈			949 Nov 06 j 11:15	0°♌
	947 May 06 j 05:33	0°♄			949 Nov 30 j 08:24	0°♁
	947 Jun 02 j 11:03	0°♌		morning set	949 Dec 15 j 20:28	19°♁29'39
evening max el	947 Jun 20 j 23:33	18°♌42'21	45°29'37	desc. node	949 Dec 16 j 16:55	20°♁33'56
desc. node	947 Jul 01 j 21:48	28°♌39'03			949 Dec 24 j 05:00	0°♁
	947 Jul 03 j 11:53	0°♍			950 Jan 17 j 02:30	0°♁
greatest brilliancy	947 Jul 28 j 06:39	16°♍04'46	-4.5m			
retrograde	947 Aug 08 j 16:14	18°♍23'35		superior conj	950 Jan 26 j 15:43	11°♁58'00 -1°-17'-53
evening set	947 Aug 26 j 17:59	12°♍22'33		minimum elong	950 Jan 26 j 06:43	11°♁29'50 1°17'44
inferior conj	947 Aug 29 j 20:40	10°♍28'58	-8°-45'-30	max. Earth dist.	950 Jan 30 j 08:43	16°♁36'26 1.71634 AU
minimum elong	947 Aug 29 j 21:26	10°♍27'46	8°45'30		950 Feb 10 j 01:58	0°♁
min. Earth dist.	947 Aug 30 j 13:19	10°♍03'17	0.28133 AU		950 Mar 06 j 04:32	0°♍
morning rise	947 Sep 02 j 00:40	8°♍32'46		evening rise	950 Mar 07 j 19:38	2°♍01'12
direct	947 Sep 20 j 02:32	2°♍23'36			950 Mar 30 j 11:24	0°♄
greatest brilliancy	947 Oct 04 j 10:48	6°♍04'49	-4.6m	asc. node	950 Apr 08 j 20:29	11°♄30'47
asc. node	947 Oct 23 j 01:11	18°♍48'17			950 Apr 23 j 23:34	0°♈
	947 Nov 04 j 07:29	0°♎			950 May 18 j 17:59	0°♄
morning max el	947 Nov 09 j 14:55	5°♎17'25	46°47'45		950 Jun 12 j 20:32	0°♌

	950 Jul 08 j 11:33	0°♍			952 Dec 14 j 09:56	0°♁	
desc. node	950 Jul 29 j 09:38	23°♍45'58			953 Jan 07 j 11:55	0°♁	
	950 Aug 04 j 00:47	0°♌		desc. node	953 Jan 13 j 04:52	7°♁06'53	
	950 Sep 01 j 16:16	0°♌			953 Jan 31 j 13:31	0°♁	
evening max el	950 Sep 01 j 23:38	0°♌17'56	46°34'13		953 Feb 24 j 16:14	0°♁	
greatest brilliancy	950 Oct 11 j 00:43	29°♌37'49	-4.6m	morning set	953 Mar 02 j 08:47	7°♁03'51	
	950 Oct 12 j 00:56	0°♁			953 Mar 20 j 20:56	0°♁	
retrograde	950 Oct 21 j 21:08	1°♁48'33					
	950 Oct 31 j 07:30	30°♌		superior conj	953 Apr 09 j 19:39	24°♁38'14	0°-57'-29
evening set	950 Nov 05 j 12:53	27°♌34'53		minimum elong	953 Apr 10 j 05:18	25°♁08'00	0°57'10
inferior conj	950 Nov 11 j 09:54	24°♌09'36	-2°-5'-37	max. Earth dist.	953 Apr 12 j 07:31	27°♁42'45	1.73164 AU
minimum elong	950 Nov 11 j 14:38	24°♌02'26	2°04'08		953 Apr 14 j 04:03	0°♁	
min. Earth dist.	950 Nov 11 j 16:04	24°♌00'16	0.26458 AU	asc. node	953 May 06 j 08:17	27°♁16'53	
morning rise	950 Nov 17 j 16:06	20°♌32'01			953 May 08 j 13:25	0°♁	
asc. node	950 Nov 19 j 12:55	19°♌35'36		evening rise	953 May 17 j 02:03	10°♁27'58	
direct	950 Dec 01 j 20:02	16°♌31'11			953 Jun 02 j 00:32	0°♁	
greatest brilliancy	950 Dec 14 j 07:33	19°♌26'25	-4.7m		953 Jun 26 j 13:20	0°♁	
	950 Dec 30 j 22:11	0°♁			953 Jul 21 j 04:38	0°♍	
morning max el	951 Jan 21 j 09:50	19°♁40'32	46°51'02		953 Aug 15 j 00:14	0°♌	
	951 Jan 31 j 08:53	0°♁		desc. node	953 Aug 25 j 21:39	13°♌04'10	
	951 Feb 27 j 10:47	0°♁			953 Sep 09 j 02:49	0°♌	
desc. node	951 Mar 11 j 02:38	13°♁25'49			953 Oct 04 j 17:18	0°♁	
	951 Mar 25 j 07:04	0°♁			953 Oct 31 j 09:15	0°♁	
	951 Apr 19 j 14:53	0°♁		evening max el	953 Nov 13 j 22:32	14°♁17'16	47°21'42
	951 May 14 j 16:08	0°♁			953 Nov 30 j 10:57	0°♁	
	951 Jun 08 j 12:32	0°♁		asc. node	953 Dec 17 j 00:59	12°♁19'42	
asc. node	951 Jul 02 j 05:56	28°♁52'48		greatest brilliancy	953 Dec 22 j 01:20	14°♁56'32	-4.7m
	951 Jul 03 j 03:55	0°♁		retrograde	954 Jan 03 j 21:24	18°♁01'23	
morning set	951 Jul 21 j 06:18	22°♁12'57		evening set	954 Jan 20 j 12:01	12°♁34'12	
	951 Jul 27 j 13:50	0°♁		min. Earth dist.	954 Jan 23 j 17:42	10°♁35'13	0.27297 AU
	951 Aug 20 j 18:45	0°♍		inferior conj	954 Jan 24 j 16:22	9°♁59'44	7°55'50
max. Earth dist.	951 Aug 23 j 08:41	3°♍12'37	1.72380 AU	minimum elong	954 Jan 24 j 08:15	10°♁12'26	7°54'44
				morning rise	954 Jan 28 j 04:52	7°♁49'48	
superior conj	951 Aug 26 j 21:38	7°♍36'58	1°24'42	direct	954 Feb 14 j 07:09	2°♁11'11	
minimum elong	951 Aug 26 j 21:34	7°♍36'47	1°24'43	greatest brilliancy	954 Feb 24 j 19:37	4°♁14'32	-4.6m
	951 Sep 13 j 20:13	0°♌			954 Apr 01 j 07:20	0°♁	
evening rise	951 Oct 03 j 23:11	25°♌09'29		morning max el	954 Apr 04 j 16:28	3°♁14'49	46°10'19
	951 Oct 07 j 20:04	0°♌		desc. node	954 Apr 07 j 14:17	6°♁06'07	
desc. node	951 Oct 21 j 19:24	17°♌28'39			954 Apr 30 j 11:43	0°♁	
	951 Oct 31 j 19:43	0°♁			954 May 27 j 07:51	0°♁	
	951 Nov 24 j 20:08	0°♁			954 Jun 22 j 04:19	0°♁	
	951 Dec 18 j 22:47	0°♁		asc. node	954 Jul 17 j 09:54	0°♁	
	952 Jan 12 j 06:49	0°♁			954 Jul 29 j 17:50	14°♁53'03	
	952 Feb 06 j 02:07	0°♁			954 Aug 11 j 03:39	0°♁	
asc. node	952 Feb 11 j 22:41	6°♁57'16			954 Sep 04 j 11:48	0°♍	
	952 Mar 02 j 19:08	0°♁			954 Sep 28 j 13:13	0°♌	
	952 Mar 30 j 09:54	0°♁		morning set	954 Sep 29 j 04:04	0°♌46'31	
evening max el	952 Apr 07 j 19:30	8°♁22'32	45°32'37		954 Oct 22 j 10:52	0°♌	
	952 May 03 j 17:32	0°♁		max. Earth dist.	954 Nov 06 j 22:01	19°♌27'23	1.71122 AU
greatest brilliancy	952 May 12 j 01:35	4°♁43'01	-4.5m				
retrograde	952 May 26 j 11:30	8°♁19'09		superior conj	954 Nov 07 j 14:22	20°♌18'48	0°25'11
desc. node	952 Jun 02 j 11:57	7°♁20'42		minimum elong	954 Nov 07 j 20:38	20°♌38'31	0°24'53
evening set	952 Jun 10 j 14:25	3°♁54'58			954 Nov 15 j 07:08	0°♁	
inferior conj	952 Jun 16 j 22:29	0°♁07'16	-3°-18'-15	desc. node	954 Nov 18 j 07:12	3°♁46'40	
minimum elong	952 Jun 16 j 15:39	0°♁17'57	3°16'25		954 Dec 09 j 03:32	0°♁	
min. Earth dist.	952 Jun 16 j 22:17	0°♁07'36	0.28972 AU	evening rise	954 Dec 19 j 03:27	12°♁33'27	
	952 Jun 17 j 03:09	30°♁			955 Jan 02 j 01:09	0°♁	
morning rise	952 Jun 22 j 16:53	26°♁38'35			955 Jan 26 j 01:31	0°♁	
direct	952 Jul 08 j 15:22	21°♁49'46			955 Feb 19 j 06:57	0°♁	
greatest brilliancy	952 Jul 22 j 15:14	25°♁15'12	-4.5m	asc. node	955 Mar 11 j 10:38	24°♁38'59	
	952 Jul 31 j 03:37	0°♁			955 Mar 15 j 20:34	0°♁	
morning max el	952 Aug 26 j 20:40	22°♁17'29	46°04'39		955 Apr 09 j 22:30	0°♁	
	952 Sep 03 j 13:47	0°♁			955 May 05 j 19:41	0°♁	
asc. node	952 Sep 23 j 15:32	21°♁36'16			955 Jun 02 j 04:49	0°♁	
	952 Oct 01 j 01:32	0°♍		evening max el	955 Jun 18 j 13:05	16°♁25'10	45°28'19
	952 Oct 26 j 13:39	0°♌		desc. node	955 Jun 30 j 23:55	27°♁39'50	
	952 Nov 20 j 04:31	0°♌			955 Jul 03 j 19:45	0°♍	

greatest brilliancy	955 Jul 25 j 17:39	13° $\Upsilon$ 45'28	-4.5m	minimum elong	958 Jan 23 j 16:36	8° $\approx$ 55'22	1°15'58
retrograde	955 Aug 06 j 06:19	16° $\Upsilon$ 07'31		max. Earth dist.	958 Jan 27 j 18:34	14° $\approx$ 02'05	1.71588 AU
evening set	955 Aug 24 j 07:26	10° $\Upsilon$ 06'55			958 Feb 09 j 13:08	0° $\text{X}$	
inferior conj	955 Aug 27 j 11:11	8° $\Upsilon$ 11'53	-8°-45'-14	evening rise	958 Mar 05 j 08:40	29° $\text{X}$ 38'15	
minimum elong	955 Aug 27 j 11:05	8° $\Upsilon$ 12'01	8°45'16		958 Mar 05 j 15:41	0° $\Upsilon$	
min. Earth dist.	955 Aug 28 j 03:16	7° $\Upsilon$ 47'07	0.28193 AU		958 Mar 29 j 22:39	0° $\text{B}$	
morning rise	955 Aug 30 j 14:30	6° $\Upsilon$ 16'49		asc. node	958 Apr 07 j 22:29	11° $\text{B}$ 02'18	
direct	955 Sep 17 j 17:19	0° $\Upsilon$ 05'26			958 Apr 23 j 11:02	0° $\text{II}$	
greatest brilliancy	955 Oct 02 j 04:01	3° $\Upsilon$ 49'12	-4.6m		958 May 18 j 05:50	0° $\text{E}$	
asc. node	955 Oct 22 j 03:08	17° $\Upsilon$ 43'04			958 Jun 12 j 09:07	0° $\Omega$	
	955 Nov 04 j 07:31	0° $\text{L}$			958 Jul 08 j 01:29	0° $\Upsilon$	
morning max el	955 Nov 07 j 05:19	2° $\text{L}$ 55'18	46°46'46	desc. node	958 Jul 28 j 11:44	23° $\Upsilon$ 07'32	
	955 Dec 02 j 04:36	0° $\text{M}$			958 Aug 03 j 17:30	0° $\text{L}$	
	955 Dec 27 j 20:57	0° $\text{Z}$		evening max el	958 Aug 30 j 13:45	27° $\text{L}$ 57'11	46°31'32
	956 Jan 21 j 18:48	0° $\text{B}$			958 Sep 01 j 16:37	0° $\text{M}$	
desc. node	956 Feb 10 j 16:45	24° $\text{B}$ 15'14		greatest brilliancy	958 Oct 08 j 13:16	27° $\text{M}$ 09'27	-4.6m
	956 Feb 15 j 09:36	0° $\approx$		retrograde	958 Oct 19 j 09:23	29° $\text{M}$ 18'56	
	956 Mar 10 j 21:55	0° $\text{X}$		evening set	958 Nov 03 j 02:56	25° $\text{M}$ 02'54	
	956 Apr 04 j 09:43	0° $\Upsilon$		inferior conj	958 Nov 08 j 21:53	21° $\text{M}$ 40'02	-2°-29'-25
	956 Apr 28 j 21:37	0° $\text{B}$		minimum elong	958 Nov 09 j 03:27	21° $\text{M}$ 31'36	2°27'42
morning set	956 May 11 j 11:40	15° $\text{B}$ 24'56		min. Earth dist.	958 Nov 09 j 05:13	21° $\text{M}$ 28'55	0.26487 AU
	956 May 23 j 09:16	0° $\text{II}$		morning rise	958 Nov 15 j 03:44	18° $\text{M}$ 02'54	
asc. node	956 Jun 02 j 20:11	12° $\text{II}$ 49'19		asc. node	958 Nov 18 j 15:07	16° $\text{M}$ 22'54	
max. Earth dist.	956 Jun 15 j 02:10	27° $\text{II}$ 52'03	1.73571 AU	direct	958 Nov 29 j 09:04	14° $\text{M}$ 01'19	
				greatest brilliancy	958 Dec 11 j 21:10	16° $\text{M}$ 57'27	-4.7m
superior conj	956 Jun 16 j 23:34	0° $\text{E}$ 11'36	0°32'43		958 Dec 31 j 12:05	0° $\text{Z}$	
minimum elong	956 Jun 16 j 17:25	29° $\text{II}$ 52'41	0°32'27	morning max el	959 Jan 18 j 23:27	17° $\text{Z}$ 14'51	46°51'51
	956 Jun 16 j 19:48	0° $\text{E}$			959 Jan 31 j 04:48	0° $\text{B}$	
	956 Jul 11 j 04:30	0° $\Omega$			959 Feb 27 j 02:19	0° $\approx$	
evening rise	956 Jul 22 j 17:44	14° $\Omega$ 15'25		desc. node	959 Mar 10 j 04:39	12° $\approx$ 49'27	
	956 Aug 04 j 11:36	0° $\Upsilon$			959 Mar 24 j 20:38	0° $\text{X}$	
	956 Aug 28 j 18:10	0° $\text{L}$			959 Apr 19 j 03:21	0° $\Upsilon$	
	956 Sep 22 j 01:32	0° $\text{M}$			959 May 14 j 03:56	0° $\text{B}$	
desc. node	956 Sep 22 j 09:31	0° $\text{M}$ 24'36			959 Jun 07 j 23:55	0° $\text{II}$	
	956 Oct 16 j 10:57	0° $\text{Z}$		asc. node	959 Jul 01 j 08:04	28° $\text{II}$ 25'15	
	956 Nov 10 j 00:13	0° $\text{B}$			959 Jul 02 j 15:02	0° $\text{E}$	
	956 Dec 04 j 21:59	0° $\approx$		morning set	959 Jul 19 j 00:01	20° $\text{E}$ 05'50	
	956 Dec 30 j 16:19	0° $\text{X}$			959 Jul 27 j 00:49	0° $\Omega$	
asc. node	957 Jan 13 j 12:50	15° $\text{X}$ 18'38			959 Aug 20 j 05:44	0° $\Upsilon$	
evening max el	957 Jan 24 j 10:01	26° $\text{X}$ 39'46	46°40'28	max. Earth dist.	959 Aug 20 j 22:58	0° $\Upsilon$ 53'35	1.72431 AU
	957 Jan 27 j 18:27	0° $\Upsilon$					
greatest brilliancy	957 Mar 01 j 05:41	25° $\Upsilon$ 27'03	-4.6m	superior conj	959 Aug 24 j 14:25	5° $\Upsilon$ 25'37	1°24'37
retrograde	957 Mar 15 j 16:32	29° $\Upsilon$ 13'37		minimum elong	959 Aug 24 j 13:38	5° $\Upsilon$ 23'11	1°24'38
evening set	957 Apr 01 j 09:07	23° $\Upsilon$ 47'52			959 Sep 13 j 07:17	0° $\text{L}$	
inferior conj	957 Apr 05 j 23:52	20° $\Upsilon$ 56'52	6°11'03	evening rise	959 Oct 01 j 12:36	22° $\text{L}$ 46'17	
minimum elong	957 Apr 06 j 09:32	20° $\Upsilon$ 41'36	6°09'04		959 Oct 07 j 07:18	0° $\text{M}$	
min. Earth dist.	957 Apr 06 j 00:36	20° $\Upsilon$ 55'43	0.28686 AU	desc. node	959 Oct 20 j 21:27	16° $\text{M}$ 59'36	
morning rise	957 Apr 11 j 10:10	17° $\Upsilon$ 37'44			959 Oct 31 j 07:10	0° $\text{Z}$	
direct	957 Apr 27 j 07:36	12° $\Upsilon$ 43'16			959 Nov 24 j 07:49	0° $\text{B}$	
desc. node	957 May 05 j 02:02	13° $\Upsilon$ 50'17			959 Dec 18 j 10:46	0° $\approx$	
greatest brilliancy	957 May 09 j 17:49	15° $\Upsilon$ 27'38	-4.5m		960 Jan 11 j 19:16	0° $\text{X}$	
	957 Jun 01 j 02:39	0° $\text{B}$			960 Feb 05 j 15:25	0° $\Upsilon$	
morning max el	957 Jun 15 j 03:06	12° $\text{B}$ 32'11	45°44'26	asc. node	960 Feb 11 j 00:40	6° $\Upsilon$ 23'07	
	957 Jul 02 j 12:12	0° $\text{II}$			960 Mar 02 j 10:12	0° $\text{B}$	
	957 Jul 29 j 21:20	0° $\text{E}$			960 Mar 30 j 05:42	0° $\text{II}$	
	957 Aug 24 j 16:52	0° $\Omega$		evening max el	960 Apr 05 j 11:09	6° $\text{II}$ 10'17	45°34'05
asc. node	957 Aug 26 j 05:43	1° $\Omega$ 49'26			960 May 04 j 21:28	0° $\text{E}$	
	957 Sep 18 j 14:30	0° $\Upsilon$		greatest brilliancy	960 May 09 j 17:57	2° $\text{E}$ 33'54	-4.5m
	957 Oct 12 j 22:27	0° $\text{L}$		retrograde	960 May 24 j 03:21	6° $\text{E}$ 09'58	
	957 Nov 05 j 22:45	0° $\text{M}$		desc. node	960 Jun 01 j 14:07	4° $\text{E}$ 45'34	
	957 Nov 29 j 19:49	0° $\text{Z}$		evening set	960 Jun 08 j 05:57	1° $\text{E}$ 47'03	
morning set	957 Dec 13 j 06:11	16° $\text{Z}$ 53'37			960 Jun 11 j 08:03	30° $\text{II}$	
desc. node	957 Dec 15 j 19:07	20° $\text{Z}$ 05'09		inferior conj	960 Jun 14 j 14:52	27° $\text{II}$ 58'01	-2°-59'-54
	957 Dec 23 j 16:20	0° $\text{B}$		minimum elong	960 Jun 14 j 08:35	28° $\text{II}$ 07'51	2°58'10
	958 Jan 16 j 13:45	0° $\approx$		min. Earth dist.	960 Jun 14 j 14:55	27° $\text{II}$ 57'56	0.28973 AU
				morning rise	960 Jun 20 j 11:11	24° $\text{II}$ 26'12	
superior conj	958 Jan 24 j 02:17	9° $\approx$ 25'42	-1°-16'-11	direct	960 Jul 06 j 07:36	19° $\text{II}$ 40'32	

greatest brilliancy	960 Jul 20 j 05:45	23°♁03'21	-4.5m		963 Jan 25 j 12:46	0°♁	
	960 Aug 01 j 00:48	0°♁			963 Feb 18 j 18:24	0°♁	
morning max el	960 Aug 24 j 11:08	20°♁01'50	46°03'22	asc. node	963 Mar 10 j 12:36	24°♁09'21	
	960 Sep 03 j 09:11	0°♁			963 Mar 15 j 08:24	0°♁	
asc. node	960 Sep 22 j 17:29	20°♁57'23			963 Apr 09 j 11:08	0°♁	
	960 Sep 30 j 16:28	0°♁			963 May 05 j 09:55	0°♁	
	960 Oct 26 j 02:54	0°♁			963 Jun 01 j 22:57	0°♁	
	960 Nov 19 j 16:57	0°♁		evening max el	963 Jun 16 j 03:34	14°♁10'47	45°27'16
	960 Dec 13 j 21:53	0°♁		desc. node	963 Jun 30 j 01:58	26°♁39'26	
	961 Jan 06 j 23:34	0°♁			963 Jul 04 j 06:15	0°♁	
desc. node	961 Jan 12 j 06:56	6°♁37'12		greatest brilliancy	963 Jul 23 j 03:52	11°♁26'08	-4.5m
	961 Jan 31 j 00:56	0°♁		retrograde	963 Aug 03 j 20:58	13°♁52'21	
	961 Feb 24 j 03:27	0°♁		evening set	963 Aug 21 j 20:39	7°♁52'42	
morning set	961 Feb 27 j 21:52	4°♁40'48		inferior conj	963 Aug 25 j 01:48	5°♁55'36	-8°-44'-13
	961 Mar 20 j 08:00	0°♁		minimum elong	963 Aug 25 j 00:51	5°♁57'04	8°44'14
				min. Earth dist.	963 Aug 25 j 16:55	5°♁32'21	0.28251 AU
superior conj	961 Apr 07 j 11:29	22°♁25'13	0°-59'-58	morning rise	963 Aug 28 j 04:51	4°♁01'06	
minimum elong	961 Apr 07 j 21:14	22°♁55'20	0°59'38		963 Sep 04 j 22:04	30°♁	
max. Earth dist.	961 Apr 10 j 03:07	25°♁41'26	1.73117 AU	direct	963 Sep 15 j 08:39	27°♁48'12	
	961 Apr 13 j 15:00	0°♁			963 Sep 26 j 06:35	0°♁	
asc. node	961 May 05 j 10:24	26°♁49'52		greatest brilliancy	963 Sep 29 j 20:54	1°♁34'01	-4.6m
	961 May 08 j 00:20	0°♁		asc. node	963 Oct 21 j 05:19	16°♁40'25	
evening rise	961 May 14 j 19:59	8°♁22'07			963 Nov 04 j 06:20	0°♁	
	961 Jun 01 j 11:35	0°♁		morning max el	963 Nov 04 j 20:53	0°♁36'48	46°45'44
	961 Jun 26 j 00:38	0°♁			963 Dec 01 j 20:53	0°♁	
	961 Jul 20 j 16:23	0°♁			963 Dec 27 j 10:53	0°♁	
	961 Aug 14 j 12:40	0°♁			964 Jan 21 j 07:32	0°♁	
desc. node	961 Aug 24 j 23:37	12°♁31'47		desc. node	964 Feb 09 j 18:44	23°♁44'18	
	961 Sep 08 j 16:18	0°♁			964 Feb 14 j 21:35	0°♁	
	961 Oct 04 j 08:35	0°♁			964 Mar 10 j 09:23	0°♁	
	961 Oct 31 j 04:26	0°♁			964 Apr 03 j 20:49	0°♁	
evening max el	961 Nov 11 j 11:46	11°♁50'52	47°21'26		964 Apr 28 j 08:27	0°♁	
	961 Nov 30 j 21:00	0°♁		morning set	964 May 09 j 05:32	13°♁19'35	
asc. node	961 Dec 16 j 03:01	10°♁45'29			964 May 22 j 19:58	0°♁	
greatest brilliancy	961 Dec 19 j 17:45	12°♁34'09	-4.7m	asc. node	964 Jun 01 j 22:17	12°♁23'02	
retrograde	962 Jan 01 j 10:53	15°♁36'20		max. Earth dist.	964 Jun 13 j 01:28	26°♁03'24	1.73587 AU
evening set	962 Jan 17 j 22:04	10°♁15'23					
min. Earth dist.	962 Jan 21 j 07:33	8°♁11'03	0.27236 AU	superior conj	964 Jun 14 j 18:02	28°♁08'03	0°29'49
inferior conj	962 Jan 22 j 06:04	7°♁35'51	7°45'54	minimum elong	964 Jun 14 j 12:20	27°♁50'33	0°29'33
minimum elong	962 Jan 21 j 21:25	7°♁49'23	7°44'36		964 Jun 16 j 06:27	0°♁	
morning rise	962 Jan 25 j 21:07	5°♁22'10			964 Jul 10 j 15:12	0°♁	
	962 Feb 08 j 16:35	30°♁		evening rise	964 Jul 20 j 12:13	12°♁11'12	
direct	962 Feb 11 j 19:40	29°♁48'08			964 Aug 03 j 22:27	0°♁	
	962 Feb 14 j 23:56	0°♁			964 Aug 28 j 05:18	0°♁	
greatest brilliancy	962 Feb 22 j 09:42	1°♁52'35	-4.6m	desc. node	964 Sep 21 j 11:35	29°♁55'27	
	962 Apr 01 j 07:32	0°♁			964 Sep 21 j 13:04	0°♁	
morning max el	962 Apr 02 j 05:25	0°♁53'02	46°11'51		964 Oct 15 j 23:01	0°♁	
desc. node	962 Apr 06 j 16:21	5°♁16'54			964 Nov 09 j 13:00	0°♁	
	962 Apr 30 j 04:13	0°♁			964 Dec 04 j 11:54	0°♁	
	962 May 26 j 21:37	0°♁			964 Dec 30 j 08:32	0°♁	
	962 Jun 21 j 16:44	0°♁		asc. node	965 Jan 12 j 14:51	14°♁34'17	
	962 Jul 16 j 21:34	0°♁		evening max el	965 Jan 22 j 01:58	24°♁24'58	46°43'06
asc. node	962 Jul 28 j 19:48	14°♁24'17			965 Jan 27 j 17:39	0°♁	
	962 Aug 10 j 14:55	0°♁		greatest brilliancy	965 Feb 26 j 22:25	23°♁15'46	-4.6m
	962 Sep 03 j 22:54	0°♁		retrograde	965 Mar 13 j 09:37	27°♁02'18	
morning set	962 Sep 26 j 18:24	28°♁26'33		evening set	965 Mar 30 j 04:06	21°♁32'21	
	962 Sep 28 j 00:15	0°♁		inferior conj	965 Apr 03 j 16:00	18°♁45'25	6°25'05
	962 Oct 21 j 21:54	0°♁		minimum elong	965 Apr 04 j 01:39	18°♁30'11	6°23'10
max. Earth dist.	962 Nov 04 j 06:01	16°♁46'46	1.71143 AU	min. Earth dist.	965 Apr 03 j 15:46	18°♁45'46	0.28661 AU
				morning rise	965 Apr 08 j 23:29	15°♁30'35	
superior conj	962 Nov 05 j 01:32	17°♁48'09	0°28'51	direct	965 Apr 24 j 23:42	10°♁32'23	
minimum elong	962 Nov 05 j 08:35	18°♁10'21	0°28'31	desc. node	965 May 04 j 04:13	12°♁05'24	
	962 Nov 14 j 18:11	0°♁		greatest brilliancy	965 May 07 j 07:12	13°♁14'40	-4.5m
desc. node	962 Nov 17 j 09:23	3°♁18'45			965 Jun 01 j 08:21	0°♁	
	962 Dec 08 j 14:37	0°♁		morning max el	965 Jun 12 j 19:58	10°♁25'00	45°44'29
evening rise	962 Dec 16 j 13:36	9°♁59'47			965 Jul 02 j 05:23	0°♁	
	963 Jan 01 j 12:18	0°♁			965 Jul 29 j 11:10	0°♁	

	965 Aug 24 j 05:16	0°♁		evening max el	968 Apr 03 j 02:12	3°♁57'39	45°35'43
asc. node	965 Aug 25 j 07:43	1°♁18'41			968 May 06 j 12:38	0°♁	
	965 Sep 18 j 02:10	0°♁		greatest brilliancy	968 May 07 j 09:34	0°♁25'14	-4.5m
	965 Oct 12 j 09:45	0°♁		retrograde	968 May 21 j 19:22	4°♁02'42	
	965 Nov 05 j 09:53	0°♁		desc. node	968 May 31 j 16:05	2°♁08'00	
	965 Nov 29 j 06:52	0°♁			968 Jun 05 j 07:19	30°♁	
morning set	965 Dec 10 j 16:00	14°♁18'56		evening set	968 Jun 05 j 21:49	29°♁40'32	
desc. node	965 Dec 14 j 21:05	19°♁36'47		inferior conj	968 Jun 12 j 07:27	25°♁50'38	-2°-41'-22
	965 Dec 23 j 03:19	0°♁		minimum elong	968 Jun 12 j 01:45	25°♁59'34	2°39'47
	966 Jan 16 j 00:40	0°♁		min. Earth dist.	968 Jun 12 j 07:58	25°♁49'50	0.28973 AU
				morning rise	968 Jun 18 j 05:33	22°♁15'58	
superior conj	966 Jan 21 j 12:47	6°♁54'06	-1°-14'-18	direct	968 Jul 03 j 23:36	17°♁33'02	
minimum elong	966 Jan 21 j 02:29	6°♁21'50	1°14'03	greatest brilliancy	968 Jul 17 j 21:07	20°♁54'17	-4.5m
max. Earth dist.	966 Jan 25 j 05:19	11°♁31'23	1.71539 AU		968 Aug 01 j 15:45	0°♁	
	966 Feb 08 j 23:58	0°♁		morning max el	968 Aug 22 j 01:42	17°♁47'48	46°02'01
evening rise	966 Mar 02 j 21:42	27°♁16'18			968 Sep 03 j 03:37	0°♁	
	966 Mar 05 j 02:29	0°♁		asc. node	968 Sep 21 j 19:39	20°♁20'29	
	966 Mar 29 j 09:30	0°♁			968 Sep 30 j 06:54	0°♁	
asc. node	966 Apr 07 j 00:39	10°♁35'38			968 Oct 25 j 15:46	0°♁	
	966 Apr 22 j 22:04	0°♁			968 Nov 19 j 05:03	0°♁	
	966 May 17 j 17:18	0°♁			968 Dec 13 j 09:31	0°♁	
	966 Jun 11 j 21:21	0°♁			969 Jan 06 j 10:53	0°♁	
	966 Jul 07 j 15:10	0°♁		desc. node	969 Jan 11 j 08:57	6°♁08'16	
desc. node	966 Jul 27 j 13:43	22°♁29'27			969 Jan 30 j 12:02	0°♁	
	966 Aug 03 j 10:09	0°♁			969 Feb 23 j 14:23	0°♁	
evening max el	966 Aug 28 j 03:45	25°♁37'23	46°28'52	morning set	969 Feb 25 j 10:35	2°♁17'21	
	966 Sep 01 j 17:40	0°♁			969 Mar 19 j 18:48	0°♁	
greatest brilliancy	966 Oct 06 j 02:50	24°♁43'52	-4.6m				
retrograde	966 Oct 16 j 21:12	26°♁51'05		superior conj	969 Apr 05 j 03:11	20°♁12'36	-1°-2'-22
evening set	966 Oct 31 j 17:20	22°♁32'37		minimum elong	969 Apr 05 j 13:00	20°♁42'51	1°02'02
inferior conj	966 Nov 06 j 10:05	19°♁12'27	-2°-52'-44	max. Earth dist.	969 Apr 07 j 20:14	23°♁33'12	1.73070 AU
minimum elong	966 Nov 06 j 16:25	19°♁02'49	2°50'48		969 Apr 13 j 01:42	0°♁	
min. Earth dist.	966 Nov 06 j 18:50	18°♁59'09	0.26518 AU	asc. node	969 May 04 j 12:30	26°♁23'34	
morning rise	966 Nov 12 j 15:15	15°♁35'48			969 May 07 j 11:01	0°♁	
asc. node	966 Nov 17 j 17:09	13°♁17'13		evening rise	969 May 12 j 13:53	6°♁17'01	
direct	966 Nov 26 j 21:55	11°♁33'20			969 May 31 j 22:20	0°♁	
greatest brilliancy	966 Dec 09 j 11:15	14°♁30'32	-4.7m		969 Jun 25 j 11:39	0°♁	
	966 Dec 31 j 21:55	0°♁			969 Jul 20 j 03:51	0°♁	
morning max el	967 Jan 16 j 12:18	14°♁48'16	46°52'32		969 Aug 14 j 00:51	0°♁	
	967 Jan 30 j 23:43	0°♁		desc. node	969 Aug 24 j 01:43	12°♁00'29	
	967 Feb 26 j 17:15	0°♁			969 Sep 08 j 05:37	0°♁	
desc. node	967 Mar 09 j 06:40	12°♁14'28			969 Oct 03 j 23:51	0°♁	
	967 Mar 24 j 09:42	0°♁			969 Oct 30 j 23:59	0°♁	
	967 Apr 18 j 15:21	0°♁		evening max el	969 Nov 09 j 00:57	9°♁24'48	47°21'05
	967 May 13 j 15:16	0°♁			969 Dec 01 j 10:19	0°♁	
	967 Jun 07 j 10:50	0°♁		asc. node	969 Dec 15 j 05:01	9°♁07'49	
asc. node	967 Jun 30 j 10:01	27°♁58'34		greatest brilliancy	969 Dec 17 j 09:18	10°♁10'37	-4.7m
	967 Jul 02 j 01:43	0°♁		retrograde	969 Dec 30 j 00:34	13°♁11'18	
morning set	967 Jul 16 j 17:55	18°♁00'35		evening set	970 Jan 15 j 07:52	7°♁56'17	
	967 Jul 26 j 11:25	0°♁		min. Earth dist.	970 Jan 18 j 21:09	5°♁46'46	0.27176 AU
max. Earth dist.	967 Aug 18 j 13:17	28°♁35'54	1.72488 AU	inferior conj	970 Jan 19 j 19:35	5°♁11'48	7°34'52
	967 Aug 19 j 16:21	0°♁		minimum elong	970 Jan 19 j 10:29	5°♁26'00	7°33'24
				morning rise	970 Jan 23 j 13:24	2°♁54'14	
superior conj	967 Aug 22 j 07:25	3°♁16'06	1°24'25		970 Jan 29 j 01:24	30°♁	
minimum elong	967 Aug 22 j 05:55	3°♁11'25	1°24'24	direct	970 Feb 09 j 07:58	27°♁24'46	
	967 Sep 12 j 18:01	0°♁		greatest brilliancy	970 Feb 19 j 23:44	29°♁30'45	-4.6m
evening rise	967 Sep 29 j 02:09	20°♁24'44			970 Feb 21 j 05:25	0°♁	
	967 Oct 06 j 18:13	0°♁		morning max el	970 Mar 30 j 19:10	28°♁33'33	46°13'23
desc. node	967 Oct 19 j 23:36	16°♁32'00			970 Apr 01 j 06:30	0°♁	
	967 Oct 30 j 18:16	0°♁		desc. node	970 Apr 05 j 18:34	4°♁29'19	
	967 Nov 23 j 19:09	0°♁			970 Apr 29 j 20:16	0°♁	
	967 Dec 17 j 22:25	0°♁			970 May 26 j 11:05	0°♁	
	968 Jan 11 j 07:26	0°♁			970 Jun 21 j 04:54	0°♁	
	968 Feb 05 j 04:28	0°♁			970 Jul 16 j 09:01	0°♁	
asc. node	968 Feb 10 j 02:42	5°♁49'52		asc. node	970 Jul 27 j 21:55	13°♁56'33	
	968 Mar 02 j 01:06	0°♁			970 Aug 10 j 01:59	0°♁	
	968 Mar 30 j 01:41	0°♁			970 Sep 03 j 09:47	0°♁	

morning set	970 Sep 24 j 09:06	26° $\mathbb{M}$ 08'25		evening set	973 Mar 27 j 22:53	19° $\mathbb{V}$ 15'00	
	970 Sep 27 j 11:06	0° $\underline{\text{A}}$		inferior conj	973 Apr 01 j 07:52	16° $\mathbb{V}$ 32'06	6°38'38
	970 Oct 21 j 08:47	0° $\mathbb{L}$		minimum elong	973 Apr 01 j 17:26	16° $\mathbb{V}$ 16'58	6°36'49
max. Earth dist.	970 Nov 01 j 16:06	14° $\mathbb{L}$ 13'02	1.71170 AU	min. Earth dist.	973 Apr 01 j 06:45	16° $\mathbb{V}$ 33'51	0.28633 AU
superior conj	970 Nov 02 j 12:47	15° $\mathbb{L}$ 18'06	0°32'27	morning rise	973 Apr 06 j 12:20	13° $\mathbb{V}$ 21'35	
minimum elong	970 Nov 02 j 20:33	15° $\mathbb{L}$ 42'33	0°32'06	direct	973 Apr 22 j 15:38	8° $\mathbb{V}$ 19'47	
	970 Nov 14 j 05:09	0° $\mathbb{Z}$		desc. node	973 May 03 j 06:12	10° $\mathbb{V}$ 22'32	
desc. node	970 Nov 16 j 11:24	2° $\mathbb{Z}$ 50'34		greatest brilliancy	973 May 04 j 19:26	10° $\mathbb{V}$ 58'46	-4.5m
	970 Dec 08 j 01:40	0° $\mathbb{Z}$			973 Jun 01 j 12:36	0° $\mathbb{B}$	
evening rise	970 Dec 13 j 23:27	7° $\mathbb{Z}$ 25'16		morning max el	973 Jun 10 j 12:00	8° $\mathbb{B}$ 14'49	45°44'36
	970 Dec 31 j 23:26	0° $\approx$			973 Jul 01 j 22:33	0° $\mathbb{I}$	
	971 Jan 25 j 00:01	0° $\mathbb{H}$			973 Jul 29 j 01:10	0° $\mathbb{S}$	
	971 Feb 18 j 05:51	0° $\mathbb{V}$			973 Aug 23 j 17:51	0° $\mathbb{Q}$	
asc. node	971 Mar 09 j 14:47	23° $\mathbb{V}$ 40'18		asc. node	973 Aug 24 j 09:51	0° $\mathbb{Q}$ 47'39	
	971 Mar 14 j 20:16	0° $\mathbb{B}$			973 Sep 17 j 14:03	0° $\mathbb{M}$	
	971 Apr 08 j 23:50	0° $\mathbb{I}$			973 Oct 11 j 21:15	0° $\underline{\text{A}}$	
	971 May 05 j 00:21	0° $\mathbb{S}$			973 Nov 04 j 21:11	0° $\mathbb{L}$	
	971 Jun 01 j 17:34	0° $\mathbb{Q}$			973 Nov 28 j 18:04	0° $\mathbb{Z}$	
evening max el	971 Jun 13 j 19:02	11° $\mathbb{Q}$ 58'52	45°26'21	morning set	973 Dec 08 j 02:19	11° $\mathbb{Z}$ 45'21	
desc. node	971 Jun 29 j 04:01	25° $\mathbb{Q}$ 37'39		desc. node	973 Dec 13 j 23:08	19° $\mathbb{Z}$ 08'11	
	971 Jul 04 j 20:15	0° $\mathbb{M}$			973 Dec 22 j 14:28	0° $\mathbb{Z}$	
greatest brilliancy	971 Jul 20 j 14:29	9° $\mathbb{M}$ 07'45	-4.5m		974 Jan 15 j 11:45	0° $\approx$	
retrograde	971 Aug 01 j 11:51	11° $\mathbb{M}$ 37'40		superior conj	974 Jan 18 j 23:24	4° $\approx$ 22'10	-1°-12'-15
evening set	971 Aug 19 j 09:40	5° $\mathbb{M}$ 39'43		minimum elong	974 Jan 18 j 12:35	3° $\approx$ 48'18	1°12'00
inferior conj	971 Aug 22 j 16:32	3° $\mathbb{M}$ 40'00	-8°-42'-25	max. Earth dist.	974 Jan 22 j 16:47	9° $\approx$ 02'13	1.71497 AU
minimum elong	971 Aug 22 j 14:46	3° $\mathbb{M}$ 42'44	8°42'23		974 Feb 08 j 11:02	0° $\mathbb{H}$	
min. Earth dist.	971 Aug 23 j 06:26	3° $\mathbb{M}$ 18'36	0.28303 AU	evening rise	974 Feb 28 j 10:24	24° $\mathbb{H}$ 52'19	
morning rise	971 Aug 25 j 19:39	1° $\mathbb{M}$ 45'24			974 Mar 04 j 13:34	0° $\mathbb{V}$	
	971 Aug 28 j 20:57	30° $\mathbb{Q}$			974 Mar 28 j 20:41	0° $\mathbb{B}$	
direct	971 Sep 13 j 00:29	25° $\mathbb{Q}$ 31'57		asc. node	974 Apr 06 j 02:40	10° $\mathbb{B}$ 07'24	
greatest brilliancy	971 Sep 27 j 12:25	29° $\mathbb{Q}$ 17'53	-4.6m		974 Apr 22 j 09:29	0° $\mathbb{I}$	
	971 Sep 28 j 21:54	0° $\mathbb{M}$			974 May 17 j 05:09	0° $\mathbb{S}$	
asc. node	971 Oct 20 j 07:23	15° $\mathbb{M}$ 39'27			974 Jun 11 j 10:02	0° $\mathbb{Q}$	
morning max el	971 Nov 02 j 12:36	28° $\mathbb{M}$ 19'20	46°44'29		974 Jul 07 j 05:22	0° $\mathbb{M}$	
	971 Nov 04 j 04:07	0° $\underline{\text{A}}$		desc. node	974 Jul 26 j 15:51	21° $\mathbb{M}$ 50'20	
	971 Dec 01 j 12:52	0° $\mathbb{L}$			974 Aug 03 j 03:34	0° $\underline{\text{A}}$	
	971 Dec 27 j 00:44	0° $\mathbb{Z}$		evening max el	974 Aug 25 j 16:58	23° $\underline{\text{A}}$ 14'37	46°26'11
	972 Jan 20 j 20:17	0° $\mathbb{Z}$			974 Sep 01 j 20:35	0° $\mathbb{L}$	
desc. node	972 Feb 08 j 20:52	23° $\mathbb{Z}$ 13'31		greatest brilliancy	974 Oct 03 j 17:06	22° $\mathbb{L}$ 18'17	-4.6m
	972 Feb 14 j 09:40	0° $\approx$		retrograde	974 Oct 14 j 08:36	24° $\mathbb{L}$ 22'47	
	972 Mar 09 j 20:58	0° $\mathbb{H}$		evening set	974 Oct 29 j 07:56	20° $\mathbb{L}$ 01'30	
	972 Apr 03 j 08:01	0° $\mathbb{V}$		inferior conj	974 Nov 03 j 22:22	16° $\mathbb{L}$ 44'30	-3°-15'-40
	972 Apr 27 j 19:24	0° $\mathbb{B}$		minimum elong	974 Nov 04 j 05:27	16° $\mathbb{L}$ 33'43	3°13'32
morning set	972 May 06 j 23:07	11° $\mathbb{B}$ 13'03		min. Earth dist.	974 Nov 04 j 08:50	16° $\mathbb{L}$ 28'35	0.26549 AU
	972 May 22 j 06:47	0° $\mathbb{I}$		morning rise	974 Nov 10 j 02:35	13° $\mathbb{L}$ 08'38	
asc. node	972 Jun 01 j 00:14	11° $\mathbb{I}$ 55'59		asc. node	974 Nov 16 j 19:08	10° $\mathbb{L}$ 16'25	
max. Earth dist.	972 Jun 11 j 00:47	24° $\mathbb{I}$ 14'27	1.73600 AU	direct	974 Nov 24 j 10:16	9° $\mathbb{L}$ 04'48	
superior conj	972 Jun 12 j 12:19	26° $\mathbb{I}$ 03'38	0°26'51	greatest brilliancy	974 Dec 07 j 02:05	12° $\mathbb{L}$ 04'01	-4.7m
minimum elong	972 Jun 12 j 07:07	25° $\mathbb{I}$ 47'38	0°26'37		975 Jan 01 j 05:18	0° $\mathbb{Z}$	
	972 Jun 15 j 17:14	0° $\mathbb{S}$		morning max el	975 Jan 14 j 00:33	12° $\mathbb{Z}$ 19'29	46°53'20
	972 Jul 10 j 02:03	0° $\mathbb{Q}$			975 Jan 30 j 18:19	0° $\mathbb{Z}$	
evening rise	972 Jul 18 j 06:47	10° $\mathbb{Q}$ 06'46			975 Feb 26 j 08:11	0° $\approx$	
	972 Aug 03 j 09:27	0° $\mathbb{M}$		desc. node	975 Mar 08 j 08:51	11° $\approx$ 39'30	
	972 Aug 27 j 16:32	0° $\underline{\text{A}}$			975 Mar 23 j 22:57	0° $\mathbb{H}$	
desc. node	972 Sep 20 j 13:46	29° $\underline{\text{A}}$ 26'24			975 Apr 18 j 03:39	0° $\mathbb{V}$	
	972 Sep 21 j 00:41	0° $\mathbb{L}$			975 May 13 j 02:58	0° $\mathbb{B}$	
	972 Oct 15 j 11:09	0° $\mathbb{Z}$			975 Jun 06 j 22:09	0° $\mathbb{I}$	
	972 Nov 09 j 01:54	0° $\mathbb{Z}$		asc. node	975 Jun 29 j 12:09	27° $\mathbb{I}$ 31'15	
	972 Dec 04 j 02:03	0° $\approx$			975 Jul 01 j 12:47	0° $\mathbb{S}$	
	972 Dec 30 j 01:14	0° $\mathbb{H}$		morning set	975 Jul 14 j 11:30	15° $\mathbb{S}$ 53'14	
asc. node	973 Jan 11 j 16:54	13° $\mathbb{H}$ 48'41			975 Jul 25 j 22:22	0° $\mathbb{Q}$	
evening max el	973 Jan 19 j 18:15	22° $\mathbb{H}$ 09'58	46°45'27	max. Earth dist.	975 Aug 16 j 05:23	26° $\mathbb{Q}$ 22'39	1.72544 AU
	973 Jan 27 j 18:21	0° $\mathbb{V}$			975 Aug 19 j 03:20	0° $\mathbb{M}$	
greatest brilliancy	973 Feb 24 j 16:10	21° $\mathbb{V}$ 04'17	-4.6m	superior conj	975 Aug 20 j 00:15	1° $\mathbb{M}$ 05'01	1°24'04
retrograde	973 Mar 11 j 02:09	24° $\mathbb{V}$ 48'54		minimum elong	975 Aug 19 j 22:01	0° $\mathbb{M}$ 58'07	1°24'03

	975 Sep 12 j 05:08	0°♁		greatest brilliancy	978 Feb 17 j 13:12	27°♁07'20	-4.6m
evening rise	975 Sep 26 j 15:48	18°♁02'25			978 Feb 23 j 18:15	0°≈	
	975 Oct 06 j 05:30	0°♁		morning max el	978 Mar 28 j 09:45	26°≈15'31	46°15'05
desc. node	975 Oct 19 j 01:34	16°♁02'36			978 Apr 01 j 04:45	0°♁	
	975 Oct 30 j 05:44	0°♁		desc. node	978 Apr 04 j 20:30	3°♁41'19	
	975 Nov 23 j 06:50	0°♁			978 Apr 29 j 12:12	0°♁	
	975 Dec 17 j 10:23	0°≈			978 May 26 j 00:36	0°♁	
	976 Jan 10 j 19:53	0°♁			978 Jun 20 j 17:14	0°♁	
	976 Feb 04 j 17:50	0°♁			978 Jul 15 j 20:42	0°♁	
asc. node	976 Feb 09 j 04:52	5°♁16'09		asc. node	978 Jul 27 j 00:02	13°♁28'04	
	976 Mar 01 j 16:27	0°♁			978 Aug 09 j 13:19	0°♁	
	976 Mar 29 j 22:43	0°♁			978 Sep 02 j 20:59	0°♁	
evening max el	976 Mar 31 j 16:56	1°♁43'12	45°37'14	morning set	978 Sep 21 j 23:48	23°♁49'33	
greatest brilliancy	976 May 05 j 00:09	28°♁13'52	-4.5m		978 Sep 26 j 22:14	0°♁	
	976 May 09 j 06:03	0°♁			978 Oct 20 j 19:56	0°♁	
retrograde	976 May 19 j 11:32	1°♁54'04		max. Earth dist.	978 Oct 30 j 02:32	11°♁39'46	1.71196 AU
	976 May 29 j 07:17	30°♁					
desc. node	976 May 30 j 18:09	29°♁24'27		superior conj	978 Oct 31 j 00:02	12°♁47'21	0°36'00
evening set	976 Jun 03 j 13:42	27°♁32'04		minimum elong	978 Oct 31 j 08:25	13°♁13'45	0°35'36
inferior conj	976 Jun 09 j 23:55	23°♁41'40	-2°-22'-25		978 Nov 13 j 16:21	0°♁	
minimum elong	976 Jun 09 j 18:50	23°♁49'37	2°21'00	desc. node	978 Nov 15 j 13:25	2°♁21'41	
min. Earth dist.	976 Jun 10 j 00:52	23°♁40'11	0.28978 AU		978 Dec 07 j 12:58	0°♁	
morning rise	976 Jun 15 j 23:46	20°♁04'27		evening rise	978 Dec 11 j 09:17	4°♁49'56	
direct	976 Jul 01 j 15:23	15°♁23'45			978 Dec 31 j 10:50	0°≈	
greatest brilliancy	976 Jul 15 j 13:36	18°♁45'08	-4.5m		979 Jan 24 j 11:31	0°♁	
	976 Aug 02 j 03:34	0°♁			979 Feb 17 j 17:31	0°♁	
morning max el	976 Aug 19 j 16:53	15°♁34'04	46°00'47	asc. node	979 Mar 08 j 16:49	23°♁10'06	
	976 Sep 02 j 22:04	0°♁			979 Mar 14 j 08:21	0°♁	
asc. node	976 Sep 20 j 21:44	19°♁42'29			979 Apr 08 j 12:45	0°♁	
	976 Sep 29 j 21:35	0°♁			979 May 04 j 15:03	0°♁	
	976 Oct 25 j 04:56	0°♁			979 Jun 01 j 12:47	0°♁	
	976 Nov 18 j 17:28	0°♁		evening max el	979 Jun 11 j 11:00	9°♁47'58	45°25'18
	976 Dec 12 j 21:29	0°♁		desc. node	979 Jun 28 j 06:07	24°♁34'10	
	977 Jan 05 j 22:31	0°♁			979 Jul 05 j 15:13	0°♁	
desc. node	977 Jan 10 j 11:05	5°♁38'46		greatest brilliancy	979 Jul 18 j 01:57	6°♁50'13	-4.5m
	977 Jan 29 j 23:24	0°≈		retrograde	979 Jul 30 j 02:29	9°♁22'42	
morning set	977 Feb 22 j 23:31	29°≈53'39		evening set	979 Aug 16 j 22:27	3°♁27'17	
	977 Feb 23 j 01:33	0°♁		inferior conj	979 Aug 20 j 07:23	1°♁24'15	-8°-39'-41
	977 Mar 19 j 05:49	0°♁		minimum elong	979 Aug 20 j 04:48	1°♁28'13	8°39'37
				min. Earth dist.	979 Aug 20 j 20:06	1°♁04'38	0.28355 AU
superior conj	977 Apr 02 j 19:10	18°♁00'00	-1°-4'-37		979 Aug 22 j 14:18	30°♁	
minimum elong	977 Apr 03 j 04:58	18°♁30'15	1°04'20	morning rise	979 Aug 23 j 10:58	29°♁28'49	
max. Earth dist.	977 Apr 05 j 13:06	21°♁23'27	1.73026 AU	direct	979 Sep 10 j 16:39	23°♁15'41	
	977 Apr 12 j 12:38	0°♁		greatest brilliancy	979 Sep 25 j 03:21	27°♁00'27	-4.6m
asc. node	977 May 03 j 14:29	25°♁56'03			979 Sep 30 j 13:33	0°♁	
	977 May 06 j 21:58	0°♁		asc. node	979 Oct 19 j 09:21	14°♁38'57	
evening rise	977 May 10 j 07:58	4°♁11'34		morning max el	979 Oct 31 j 03:44	25°♁59'46	46°43'09
	977 May 31 j 09:26	0°♁			979 Nov 04 j 01:23	0°♁	
	977 Jun 24 j 23:02	0°♁			979 Dec 01 j 04:48	0°♁	
	977 Jul 19 j 15:43	0°♁			979 Dec 26 j 14:37	0°♁	
	977 Aug 13 j 13:28	0°♁			980 Jan 20 j 09:06	0°♁	
desc. node	977 Aug 23 j 03:50	11°♁28'01		desc. node	980 Feb 07 j 22:57	22°♁42'19	
	977 Sep 07 j 19:24	0°♁			980 Feb 13 j 21:48	0°≈	
	977 Oct 03 j 15:44	0°♁			980 Mar 09 j 08:37	0°♁	
	977 Oct 30 j 20:32	0°♁			980 Apr 02 j 19:18	0°♁	
evening max el	977 Nov 06 j 14:53	6°♁59'44	47°20'42		980 Apr 27 j 06:25	0°♁	
	977 Dec 02 j 04:42	0°≈		morning set	980 May 04 j 17:01	9°♁07'17	
asc. node	977 Dec 14 j 07:11	7°≈25'34			980 May 21 j 17:37	0°♁	
greatest brilliancy	977 Dec 14 j 23:58	7°≈44'48	-4.7m	asc. node	980 May 31 j 02:25	11°♁29'32	
retrograde	977 Dec 27 j 14:40	10°≈45'05		max. Earth dist.	980 Jun 08 j 23:56	22°♁24'59	1.73606 AU
evening set	978 Jan 12 j 17:35	5°≈35'48					
min. Earth dist.	978 Jan 16 j 10:28	3°≈21'28	0.27114 AU	superior conj	980 Jun 10 j 06:59	24°♁00'20	0°23'53
inferior conj	978 Jan 17 j 09:00	2°≈46'27	7°22'54	minimum elong	980 Jun 10 j 02:18	23°♁45'57	0°23'40
minimum elong	978 Jan 16 j 23:29	3°≈01'14	7°21'16		980 Jun 15 j 04:01	0°♁	
morning rise	978 Jan 21 j 05:45	0°≈25'00			980 Jul 09 j 12:54	0°♁	
	978 Jan 21 j 22:56	30°♁		evening rise	980 Jul 16 j 01:41	8°♁03'25	
direct	978 Feb 06 j 20:39	25°♁00'09			980 Aug 02 j 20:29	0°♁	

	980 Aug 27 j 03:52	0°♁			983 Apr 17 j 15:43	0°♃		
desc. node	980 Sep 19 j 15:43	28°♁56'13			983 May 12 j 14:26	0°♄		
	980 Sep 20 j 12:27	0°♃			983 Jun 06 j 09:12	0°♅		
	980 Oct 14 j 23:29	0°♄		asc. node	983 Jun 28 j 14:16	27°♅04'37		
	980 Nov 08 j 15:00	0°♅			983 Jun 30 j 23:35	0°♆		
	980 Dec 03 j 16:26	0°♆		morning set	983 Jul 12 j 05:23	13°♆47'36		
	980 Dec 29 j 18:21	0°♇			983 Jul 25 j 09:03	0°♈		
asc. node	981 Jan 10 j 19:02	13°♇02'24		max. Earth dist.	983 Aug 13 j 23:59	24°♈18'08	1.72596 AU	
evening max el	981 Jan 17 j 09:52	19°♇52'56	46°47'46					
	981 Jan 27 j 20:24	0°♃		superior conj	983 Aug 17 j 17:33	28°♈56'23	1°23'36	
greatest brilliancy	981 Feb 22 j 10:40	18°♃53'32	-4.6m	minimum elong	983 Aug 17 j 14:39	28°♈47'22	1°23'35	
retrograde	981 Mar 08 j 18:15	22°♃35'14			983 Aug 18 j 14:01	0°♄		
evening set	981 Mar 25 j 17:41	16°♃57'39			983 Sep 11 j 15:55	0°♅		
inferior conj	981 Mar 29 j 23:45	14°♃18'47	6°51'36	evening rise	983 Sep 24 j 06:06	15°♅43'16		
minimum elong	981 Mar 30 j 09:11	14°♃03'52	6°49'55		983 Oct 05 j 16:27	0°♆		
min. Earth dist.	981 Mar 29 j 22:02	14°♃21'32	0.28601 AU	desc. node	983 Oct 18 j 03:40	15°♆34'35		
morning rise	981 Apr 04 j 01:02	11°♃12'39			983 Oct 29 j 16:55	0°♇		
direct	981 Apr 20 j 07:19	6°♃07'17			983 Nov 22 j 18:17	0°♈		
greatest brilliancy	981 May 02 j 07:43	8°♃42'51	-4.5m		983 Dec 16 j 22:13	0°♉		
desc. node	981 May 02 j 08:15	8°♃43'23			984 Jan 10 j 08:15	0°♊		
	981 Jun 01 j 15:07	0°♄		asc. node	984 Feb 04 j 07:10	0°♃		
morning max el	981 Jun 08 j 03:16	6°♄02'56	45°44'56		984 Feb 08 j 06:51	4°♃42'03		
	981 Jul 01 j 15:14	0°♅			984 Mar 01 j 07:53	0°♄		
	981 Jul 28 j 14:51	0°♆		evening max el	984 Mar 29 j 07:47	29°♄29'35	45°39'05	
	981 Aug 23 j 06:13	0°♇			984 Mar 29 j 20:19	0°♅		
asc. node	981 Aug 23 j 11:54	0°♈16'56		greatest brilliancy	984 May 02 j 14:19	26°♅02'40	-4.5m	
	981 Sep 17 j 01:46	0°♉		retrograde	984 May 17 j 04:09	29°♅46'09		
	981 Oct 11 j 08:39	0°♊		desc. node	984 May 29 j 20:17	26°♅37'33		
	981 Nov 04 j 08:28	0°♋		evening set	984 Jun 01 j 05:44	25°♅24'00		
	981 Nov 28 j 05:17	0°♌		inferior conj	984 Jun 07 j 16:19	21°♅33'17	-2°-3'-22	
morning set	981 Dec 05 j 12:14	9°♌10'26		minimum elong	984 Jun 07 j 11:53	21°♅40'14	2°02'06	
desc. node	981 Dec 13 j 01:19	18°♌39'57		min. Earth dist.	984 Jun 07 j 17:25	21°♅31'35	0.28978 AU	
	981 Dec 22 j 01:36	0°♍		morning rise	984 Jun 13 j 17:50	17°♅53'55		
	982 Jan 14 j 22:49	0°♎		direct	984 Jun 29 j 07:26	13°♅15'05		
				greatest brilliancy	984 Jul 13 j 06:20	16°♅37'15	-4.5m	
superior conj	982 Jan 16 j 09:33	1°♎48'54	-1°-10'-3		984 Aug 02 j 11:52	0°♆		
minimum elong	982 Jan 15 j 22:20	1°♎13'45	1°09'45	morning max el	984 Aug 17 j 09:03	13°♆23'57	45°59'44	
max. Earth dist.	982 Jan 20 j 02:02	6°♎26'12	1.71450 AU		984 Sep 02 j 15:40	0°♇		
	982 Feb 07 j 22:03	0°♈		asc. node	984 Sep 19 j 23:41	19°♇05'36		
evening rise	982 Feb 25 j 22:45	22°♈27'21			984 Sep 29 j 11:41	0°♈		
	982 Mar 04 j 00:36	0°♉			984 Oct 24 j 17:36	0°♉		
	982 Mar 28 j 07:48	0°♊			984 Nov 18 j 05:23	0°♊		
asc. node	982 Apr 05 j 04:41	9°♊39'28			984 Dec 12 j 09:00	0°♋		
	982 Apr 21 j 20:48	0°♌			985 Jan 05 j 09:47	0°♍		
	982 May 16 j 16:54	0°♎		desc. node	985 Jan 09 j 13:08	5°♎10'08		
	982 Jun 10 j 22:34	0°♈			985 Jan 29 j 10:30	0°♉		
	982 Jul 06 j 19:28	0°♊		morning set	985 Feb 20 j 11:48	27°♈28'34		
desc. node	982 Jul 25 j 17:56	21°♊11'33			985 Feb 22 j 12:29	0°♋		
	982 Aug 02 j 21:01	0°♍			985 Mar 18 j 16:37	0°♌		
evening max el	982 Aug 23 j 05:10	20°♍50'33	46°23'28					
	982 Sep 02 j 00:44	0°♎		superior conj	985 Mar 31 j 10:27	15°♎45'51	-1°-6'-50	
greatest brilliancy	982 Oct 01 j 06:55	19°♎53'14	-4.6m	minimum elong	985 Mar 31 j 20:11	16°♎15'56	1°06'34	
retrograde	982 Oct 11 j 19:55	21°♎55'43		max. Earth dist.	985 Apr 03 j 05:14	19°♎12'03	1.72980 AU	
evening set	982 Oct 26 j 22:42	17°♎30'55			985 Apr 11 j 23:21	0°♄		
inferior conj	982 Nov 01 j 10:44	14°♎17'26	-3°-37'-56	asc. node	985 May 02 j 16:38	25°♄29'49		
minimum elong	982 Nov 01 j 18:30	14°♎05'38	3°35'39		985 May 06 j 08:39	0°♅		
min. Earth dist.	982 Nov 01 j 22:59	13°♎58'48	0.26592 AU	evening rise	985 May 08 j 01:30	2°♅05'20		
morning rise	982 Nov 07 j 13:47	10°♎42'45			985 May 30 j 20:15	0°♆		
asc. node	982 Nov 15 j 21:19	7°♎21'51			985 Jun 24 j 10:09	0°♇		
direct	982 Nov 21 j 22:35	6°♎36'40			985 Jul 19 j 03:19	0°♈		
greatest brilliancy	982 Dec 04 j 18:16	9°♎39'36	-4.7m		985 Aug 13 j 01:47	0°♉		
	983 Jan 01 j 10:28	0°♊		desc. node	985 Aug 22 j 05:47	10°♉56'00		
morning max el	983 Jan 11 j 13:08	9°♊51'27	46°54'01		985 Sep 07 j 08:55	0°♊		
	983 Jan 30 j 12:26	0°♌			985 Oct 03 j 07:22	0°♋		
	983 Feb 25 j 22:53	0°♎			985 Oct 30 j 17:11	0°♍		
desc. node	983 Mar 07 j 10:49	11°♎04'22		evening max el	985 Nov 04 j 05:41	4°♎38'33	47°20'15	
	983 Mar 23 j 11:59	0°♈			985 Dec 03 j 04:32	0°♉		

greatest brilliancy	985 Dec 12 j 13:51	5°≈19'33	-4.7m			988 May 21 j 04:15	0°♁		
asc. node	985 Dec 13 j 09:13	5°≈40'41		asc. node		988 May 30 j 04:29	11°♁03'23		
retrograde	985 Dec 25 j 04:57	8°≈19'58		max. Earth dist.		988 Jun 06 j 20:40	20°♁28'41	1.73614 AU	
evening set	986 Jan 10 j 03:18	3°≈16'18							
min. Earth dist.	986 Jan 13 j 23:26	0°≈57'32	0.27059 AU	superior conj		988 Jun 08 j 01:17	21°♁56'35	0°20'52	
inferior conj	986 Jan 14 j 22:21	0°≈22'01	7°10'04	minimum elong		988 Jun 07 j 21:09	21°♁43'54	0°20'39	
minimum elong	986 Jan 14 j 12:31	0°≈37'17	7°08'15			988 Jun 14 j 14:37	0°♁		
	986 Jan 15 j 12:34	30°♁				988 Jul 08 j 23:34	0°♁		
morning rise	986 Jan 18 j 22:08	27°♁56'33		evening rise		988 Jul 13 j 20:11	5°♁59'25		
direct	986 Feb 04 j 09:58	22°♁36'34				988 Aug 02 j 07:19	0°♁		
greatest brilliancy	986 Feb 15 j 02:01	24°♁44'01	-4.6m			988 Aug 26 j 15:01	0°♁		
	986 Feb 25 j 08:12	0°≈		desc. node		988 Sep 18 j 17:47	28°♁27'03		
morning max el	986 Mar 26 j 00:41	23°≈58'58	46°16'30			988 Sep 20 j 00:03	0°♁		
	986 Apr 01 j 01:54	0°♁				988 Oct 14 j 11:39	0°♁		
desc. node	986 Apr 03 j 22:35	2°♁55'06				988 Nov 08 j 03:58	0°♁		
	986 Apr 29 j 03:40	0°♁				988 Dec 03 j 06:44	0°≈		
	986 May 25 j 13:48	0°♁				988 Dec 29 j 11:30	0°♁		
	986 Jun 20 j 05:15	0°♁		asc. node		989 Jan 09 j 21:04	12°♁16'02		
	986 Jul 15 j 08:03	0°♁		evening max el		989 Jan 15 j 00:39	17°♁34'24	46°50'09	
asc. node	986 Jul 26 j 02:01	13°♁00'11				989 Jan 27 j 23:34	0°♁		
	986 Aug 09 j 00:20	0°♁		greatest brilliancy		989 Feb 20 j 05:02	16°♁43'28	-4.6m	
	986 Sep 02 j 07:49	0°♁		retrograde		989 Mar 06 j 10:01	20°♁22'41		
morning set	986 Sep 19 j 14:34	21°♁32'01		evening set		989 Mar 23 j 12:30	14°♁41'22		
	986 Sep 26 j 09:01	0°♁		inferior conj		989 Mar 27 j 15:46	12°♁06'36	7°03'56	
	986 Oct 20 j 06:44	0°♁		minimum elong		989 Mar 28 j 00:58	11°♁52'01	7°02'22	
max. Earth dist.	986 Oct 27 j 10:41	9°♁00'26	1.71217 AU	min. Earth dist.		989 Mar 27 j 13:35	12°♁10'04	0.28569 AU	
				morning rise		989 Apr 01 j 13:44	9°♁04'56		
superior conj	986 Oct 28 j 11:41	10°♁18'59	0°39'25	direct		989 Apr 17 j 22:40	3°♁55'46		
minimum elong	986 Oct 28 j 20:37	10°♁47'07	0°39'01	greatest brilliancy		989 Apr 29 j 20:59	6°♁28'52	-4.5m	
	986 Nov 13 j 03:12	0°♁		desc. node		989 May 01 j 10:25	7°♁08'47		
desc. node	986 Nov 14 j 15:36	1°♁54'25				989 Jun 01 j 15:59	0°♁		
	986 Dec 06 j 23:52	0°♁		morning max el		989 Jun 05 j 17:52	3°♁49'54	45°45'08	
evening rise	986 Dec 08 j 19:26	2°♁16'52				989 Jul 01 j 07:29	0°♁		
	986 Dec 30 j 21:48	0°≈				989 Jul 28 j 04:22	0°♁		
	987 Jan 23 j 22:36	0°♁		asc. node		989 Aug 22 j 13:56	29°♁46'29		
	987 Feb 17 j 04:51	0°♁				989 Aug 22 j 18:28	0°♁		
asc. node	987 Mar 07 j 18:49	22°♁40'46				989 Sep 16 j 13:22	0°♁		
	987 Mar 13 j 20:10	0°♁				989 Oct 10 j 19:57	0°♁		
	987 Apr 08 j 01:29	0°♁				989 Nov 03 j 19:37	0°♁		
	987 May 04 j 05:42	0°♁				989 Nov 27 j 16:22	0°♁		
	987 Jun 01 j 08:21	0°♁		morning set		989 Dec 02 j 22:09	6°♁35'47		
evening max el	987 Jun 09 j 02:33	7°♁36'34	45°24'23	desc. node		989 Dec 12 j 03:17	18°♁11'25		
desc. node	987 Jun 27 j 08:10	23°♁29'28				989 Dec 21 j 12:37	0°♁		
	987 Jul 06 j 16:39	0°♁							
greatest brilliancy	987 Jul 15 j 14:36	4°♁34'37	-4.5m	superior conj		990 Jan 13 j 19:44	29°♁16'00	-1°7'42	
retrograde	987 Jul 27 j 16:41	7°♁08'20		minimum elong		990 Jan 13 j 08:11	28°♁39'46	1°07'21	
evening set	987 Aug 14 j 10:55	1°♁16'10				990 Jan 14 j 09:47	0°≈		
	987 Aug 16 j 13:18	30°♁		max. Earth dist.		990 Jan 17 j 07:58	3°≈40'01	1.71403 AU	
inferior conj	987 Aug 17 j 22:11	29°♁09'20	-8°-36'-15			990 Feb 07 j 08:57	0°♁		
minimum elong	987 Aug 17 j 18:47	29°♁14'34	8°36'07	evening rise		990 Feb 23 j 11:07	20°♁02'46		
min. Earth dist.	987 Aug 18 j 09:57	28°♁51'09	0.28401 AU			990 Mar 03 j 11:30	0°♁		
morning rise	987 Aug 21 j 02:30	27°♁12'33				990 Mar 27 j 18:46	0°♁		
direct	987 Sep 08 j 08:19	21°♁00'19		asc. node		990 Apr 04 j 06:52	9°♁12'22		
greatest brilliancy	987 Sep 22 j 17:42	24°♁43'06	-4.6m			990 Apr 21 j 08:00	0°♁		
	987 Oct 01 j 16:46	0°♁				990 May 16 j 04:35	0°♁		
asc. node	987 Oct 18 j 11:33	13°♁41'12				990 Jun 10 j 11:10	0°♁		
morning max el	987 Oct 28 j 17:49	23°♁38'32	46°41'51			990 Jul 06 j 09:46	0°♁		
	987 Nov 03 j 21:37	0°♁		desc. node		990 Jul 24 j 19:54	20°♁31'50		
	987 Nov 30 j 20:11	0°♁				990 Aug 02 j 14:59	0°♁		
	987 Dec 26 j 04:03	0°♁		evening max el		990 Aug 20 j 17:04	18°♁25'36	46°20'50	
	988 Jan 19 j 21:30	0°♁				990 Sep 02 j 07:02	0°♁		
desc. node	988 Feb 07 j 00:56	22°♁12'07		greatest brilliancy		990 Sep 28 j 19:52	17°♁26'59	-4.6m	
	988 Feb 13 j 09:32	0°≈		retrograde		990 Oct 09 j 07:30	19°♁28'36		
	988 Mar 08 j 19:53	0°♁		evening set		990 Oct 24 j 13:28	14°♁59'41		
	988 Apr 02 j 06:14	0°♁		inferior conj		990 Oct 29 j 23:01	11°♁50'01	-3°-59'-45	
	988 Apr 26 j 17:09	0°♁		minimum elong		990 Oct 30 j 07:23	11°♁37'18	3°57'21	
morning set	988 May 02 j 10:39	7°♁01'27		min. Earth dist.		990 Oct 30 j 12:48	11°♁29'04	0.26637 AU	

morning rise	990 Nov 05 j 00:42	8°♌17'10		993 May 30 j 07:19	0°♁	
asc. node	990 Nov 14 j 23:21	4°♌33'00		993 Jun 23 j 21:30	0°♈	
direct	990 Nov 19 j 11:00	4°♌08'07		993 Jul 18 j 15:09	0°♎	
greatest brilliancy	990 Dec 02 j 10:40	7°♌15'27	-4.7m	993 Aug 12 j 14:26	0°♊	
	991 Jan 01 j 13:52	0°♌		desc. node	993 Aug 21 j 07:55	10°♊23'32
morning max el	991 Jan 09 j 02:25	7°♌25'05	46°54'43		993 Sep 06 j 22:52	0°♌
	991 Jan 30 j 06:09	0°♌			993 Oct 02 j 23:42	0°♌
	991 Feb 25 j 13:25	0°♌			993 Oct 30 j 15:11	0°♌
desc. node	991 Mar 06 j 12:53	10°♌29'45		evening max el	993 Nov 01 j 20:57	2°♌16'57 47°19'28
	991 Mar 23 j 00:57	0°♌			993 Dec 04 j 15:16	0°♌
	991 Apr 17 j 03:45	0°♌		greatest brilliancy	993 Dec 10 j 04:28	2°♌53'06 -4.7m
	991 May 12 j 01:52	0°♌		asc. node	993 Dec 12 j 11:13	3°♌49'30
	991 Jun 05 j 20:14	0°♌		retrograde	993 Dec 22 j 19:01	5°♌52'09
asc. node	991 Jun 27 j 16:13	26°♌37'26		evening set	994 Jan 07 j 12:51	0°♌54'26
	991 Jun 30 j 10:25	0°♌			994 Jan 09 j 01:56	30°♌
morning set	991 Jul 09 j 23:19	11°♌41'59		min. Earth dist.	994 Jan 11 j 12:13	28°♌31'01 0.26997 AU
	991 Jul 24 j 19:50	0°♌		inferior conj	994 Jan 12 j 11:22	27°♌55'10 6°56'16
max. Earth dist.	991 Aug 11 j 19:34	22°♌16'19	1.72652 AU	minimum elong	994 Jan 12 j 01:18	28°♌10'45 6°54'17
				morning rise	994 Jan 16 j 14:15	25°♌25'29
superior conj	991 Aug 15 j 10:43	26°♌46'54	1°23'01	direct	994 Feb 01 j 23:10	20°♌10'55
minimum elong	991 Aug 15 j 07:10	26°♌35'53	1°22'59	greatest brilliancy	994 Feb 12 j 13:55	22°♌17'44 -4.6m
	991 Aug 18 j 00:52	0°♌			994 Feb 26 j 11:40	0°♌
	991 Sep 11 j 02:54	0°♌		morning max el	994 Mar 23 j 14:48	21°♌39'09 46°18'00
evening rise	991 Sep 21 j 20:12	13°♌22'57			994 Mar 31 j 22:44	0°♌
	991 Oct 05 j 03:37	0°♌		desc. node	994 Apr 03 j 00:46	2°♌08'48
desc. node	991 Oct 17 j 05:47	15°♌06'01			994 Apr 28 j 19:13	0°♌
	991 Oct 29 j 04:17	0°♌			994 May 25 j 03:11	0°♌
	991 Nov 22 j 05:55	0°♌			994 Jun 19 j 17:30	0°♌
	991 Dec 16 j 10:12	0°♌			994 Jul 14 j 19:40	0°♌
	992 Jan 09 j 20:49	0°♌		asc. node	994 Jul 25 j 04:07	12°♌31'52
	992 Feb 03 j 20:44	0°♌			994 Aug 08 j 11:36	0°♌
asc. node	992 Feb 07 j 08:54	4°♌07'33			994 Sep 01 j 18:56	0°♌
	992 Feb 29 j 23:41	0°♌		morning set	994 Sep 17 j 05:46	19°♌14'58
evening max el	992 Mar 26 j 23:33	27°♌17'56	45°41'04		994 Sep 25 j 20:06	0°♌
	992 Mar 29 j 18:54	0°♌			994 Oct 19 j 17:52	0°♌
greatest brilliancy	992 Apr 30 j 05:03	23°♌52'11	-4.5m	max. Earth dist.	994 Oct 24 j 16:58	6°♌14'13 1.71249 AU
retrograde	992 May 14 j 21:16	27°♌38'18				
desc. node	992 May 28 j 22:16	23°♌47'39		superior conj	994 Oct 25 j 23:35	7°♌50'26 0°42'44
evening set	992 May 29 j 22:07	23°♌15'55		minimum elong	994 Oct 26 j 09:00	8°♌20'01 0°42'20
inferior conj	992 Jun 05 j 08:51	19°♌24'54	-1°-44'-12		994 Nov 12 j 14:27	0°♌
minimum elong	992 Jun 05 j 05:04	19°♌30'48	1°43'07	desc. node	994 Nov 13 j 17:34	1°♌25'16
min. Earth dist.	992 Jun 05 j 09:44	19°♌23'31	0.28978 AU	evening rise	994 Dec 06 j 05:14	29°♌41'12
morning rise	992 Jun 11 j 11:56	15°♌43'41			994 Dec 06 j 11:13	0°♌
direct	992 Jun 27 j 00:08	11°♌06'38			994 Dec 30 j 09:15	0°♌
greatest brilliancy	992 Jul 10 j 22:31	14°♌28'48	-4.5m		995 Jan 23 j 10:09	0°♌
	992 Aug 02 j 17:54	0°♌		asc. node	995 Feb 16 j 16:38	0°♌
morning max el	992 Aug 15 j 01:41	11°♌14'45	45°58'26		995 Mar 06 j 20:59	22°♌10'38
	992 Sep 02 j 09:06	0°♌			995 Mar 13 j 08:25	0°♌
asc. node	992 Sep 19 j 01:53	18°♌29'03			995 Apr 07 j 14:42	0°♌
	992 Sep 29 j 01:55	0°♌			995 May 03 j 20:55	0°♌
	992 Oct 24 j 06:30	0°♌			995 Jun 01 j 04:53	0°♌
	992 Nov 17 j 17:37	0°♌		evening max el	995 Jun 06 j 17:33	5°♌23'01 45°23'34
	992 Dec 11 j 20:49	0°♌		desc. node	995 Jun 26 j 10:12	22°♌22'30
	993 Jan 04 j 21:19	0°♌			995 Jul 08 j 04:56	0°♌
desc. node	993 Jan 08 j 15:08	4°♌40'30		greatest brilliancy	995 Jul 13 j 04:10	2°♌19'47 -4.5m
	993 Jan 28 j 21:49	0°♌		retrograde	995 Jul 25 j 06:54	4°♌54'22
morning set	993 Feb 17 j 23:55	25°♌02'09			995 Aug 10 j 10:00	30°♌
	993 Feb 21 j 23:38	0°♌		evening set	995 Aug 11 j 23:29	29°♌05'49
	993 Mar 18 j 03:38	0°♌		inferior conj	995 Aug 15 j 13:22	26°♌54'55 -8°-32'-4
				minimum elong	995 Aug 15 j 09:12	27°♌01'21 8°31'50
superior conj	993 Mar 29 j 01:40	13°♌30'41	-1°-8'-57	min. Earth dist.	995 Aug 16 j 00:30	26°♌37'40 0.28445 AU
minimum elong	993 Mar 29 j 11:17	14°♌00'23	1°08'41	morning rise	995 Aug 18 j 18:44	24°♌56'16
max. Earth dist.	993 Mar 31 j 23:03	17°♌05'01	1.72934 AU	direct	995 Sep 05 j 23:44	18°♌45'22
	993 Apr 11 j 10:17	0°♌		greatest brilliancy	995 Sep 20 j 08:35	22°♌26'28 -4.6m
asc. node	993 May 01 j 18:41	25°♌02'32			995 Oct 02 j 12:44	0°♌
evening rise	993 May 05 j 19:10	29°♌58'43		asc. node	995 Oct 17 j 13:34	12°♌43'48
	993 May 05 j 19:35	0°♌		morning max el	995 Oct 26 j 07:12	21°♌14'59 46°40'27

	995 Nov 03 j 17:29	0°♁		desc. node	998 Jul 23 j 22:02	19°♎51'41	
	995 Nov 30 j 11:39	0°♌			998 Aug 02 j 09:35	0°♁	
	995 Dec 25 j 17:46	0°♊		evening max el	998 Aug 18 j 05:37	16°♁02'10	46°18'18
	996 Jan 19 j 10:17	0°♉			998 Sep 02 j 15:51	0°♌	
desc. node	996 Feb 06 j 03:03	21°♉40'54		greatest brilliancy	998 Sep 26 j 08:01	15°♌00'04	-4.6m
	996 Feb 12 j 21:41	0°♈		retrograde	998 Oct 06 j 19:50	17°♌01'52	
	996 Mar 08 j 07:35	0°♈		evening set	998 Oct 22 j 04:31	12°♌28'34	
	996 Apr 01 j 17:35	0°♈		inferior conj	998 Oct 27 j 11:24	9°♌22'45	-4°-21'-3
	996 Apr 26 j 04:15	0°♈		minimum elong	998 Oct 27 j 20:20	9°♌09'13	4°18'32
morning set	996 Apr 30 j 04:02	4°♈53'44		min. Earth dist.	998 Oct 28 j 02:20	9°♌00'06	0.26684 AU
	996 May 20 j 15:13	0°♈		morning rise	998 Nov 02 j 11:33	5°♌52'18	
asc. node	996 May 29 j 06:26	10°♈35'49		asc. node	998 Nov 14 j 01:18	1°♌50'37	
max. Earth dist.	996 Jun 04 j 16:26	18°♈28'32	1.73619 AU	direct	998 Nov 17 j 00:01	1°♌39'51	
				greatest brilliancy	998 Nov 30 j 02:30	4°♌50'54	-4.7m
superior conj	996 Jun 05 j 19:38	19°♈52'00	0°17'48		999 Jan 01 j 15:44	0°♊	
minimum elong	996 Jun 05 j 16:04	19°♈41'05	0°17'38	morning max el	999 Jan 06 j 16:43	5°♊01'25	46°55'24
	996 Jun 14 j 01:33	0°♈			999 Jan 29 j 23:29	0°♉	
	996 Jul 08 j 10:33	0°♈			999 Feb 25 j 03:49	0°♈	
evening rise	996 Jul 11 j 14:59	3°♈55'26		desc. node	999 Mar 05 j 15:01	9°♈55'29	
	996 Aug 01 j 18:29	0°♈			999 Mar 22 j 13:54	0°♈	
	996 Aug 26 j 02:29	0°♈			999 Apr 16 j 15:51	0°♈	
desc. node	996 Sep 17 j 19:56	27°♈57'15			999 May 11 j 13:23	0°♈	
	996 Sep 19 j 11:56	0°♈			999 Jun 05 j 07:23	0°♈	
	996 Oct 14 j 00:06	0°♈		asc. node	999 Jun 26 j 18:22	26°♈10'32	
	996 Nov 07 j 17:16	0°♈			999 Jun 29 j 21:20	0°♈	
	996 Dec 02 j 21:29	0°♈		morning set	999 Jul 07 j 17:11	9°♈36'01	
	996 Dec 29 j 05:28	0°♈			999 Jul 24 j 06:39	0°♈	
asc. node	997 Jan 08 j 23:06	11°♈27'43		max. Earth dist.	999 Aug 09 j 15:17	20°♈14'55	1.72702 AU
evening max el	997 Jan 12 j 14:28	15°♈11'57	46°52'15				
	997 Jan 28 j 05:16	0°♈		superior conj	999 Aug 13 j 03:55	24°♈37'33	1°22'18
greatest brilliancy	997 Feb 17 j 22:51	14°♈30'32	-4.6m	minimum elong	999 Aug 12 j 23:44	24°♈24'34	1°22'15
retrograde	997 Mar 04 j 01:33	18°♈08'02			999 Aug 17 j 11:43	0°♈	
evening set	997 Mar 21 j 07:05	12°♈22'49			999 Sep 10 j 13:53	0°♈	
inferior conj	997 Mar 25 j 07:33	9°♈52'20	7°15'43	evening rise	999 Sep 19 j 10:36	11°♈03'35	
minimum elong	997 Mar 25 j 16:29	9°♈38'10	7°14'17		999 Oct 04 j 14:47	0°♈	
min. Earth dist.	997 Mar 25 j 05:06	9°♈56'14	0.28537 AU	desc. node	999 Oct 16 j 07:45	14°♈36'55	
morning rise	997 Mar 30 j 02:09	6°♈55'24			999 Oct 28 j 15:40	0°♈	
direct	997 Apr 15 j 13:20	1°♈42'01			999 Nov 21 j 17:33	0°♈	
greatest brilliancy	997 Apr 27 j 11:03	4°♈14'02	-4.5m		999 Dec 15 j 22:11	0°♈	
desc. node	997 Apr 30 j 12:21	5°♈35'33			1000 Jan 09 j 09:20	0°♈	
	997 Jun 01 j 16:09	0°♈			1000 Feb 03 j 10:19	0°♈	
morning max el	997 Jun 03 j 08:24	1°♈35'26	45°45'35	asc. node	1000 Feb 06 j 11:03	3°♈33'29	
	997 Jun 30 j 23:45	0°♈			1000 Feb 29 j 15:38	0°♈	
	997 Jul 27 j 17:59	0°♈		evening max el	1000 Mar 24 j 16:01	25°♈08'02	45°42'54
asc. node	997 Aug 21 j 16:02	29°♈15'39			1000 Mar 29 j 18:25	0°♈	
	997 Aug 22 j 06:52	0°♈		greatest brilliancy	1000 Apr 27 j 20:50	21°♈42'53	-4.5m
	997 Sep 16 j 01:10	0°♈		retrograde	1000 May 12 j 14:21	25°♈29'55	
	997 Oct 10 j 07:26	0°♈		evening set	1000 May 27 j 14:37	21°♈07'27	
	997 Nov 03 j 06:56	0°♈		desc. node	1000 May 28 j 00:19	20°♈54'06	
	997 Nov 27 j 03:36	0°♈		inferior conj	1000 Jun 03 j 01:16	17°♈16'07	-1°-24'-43
morning set	997 Nov 30 j 08:42	4°♈02'37		minimum elong	1000 Jun 02 j 22:11	17°♈20'57	1°23'51
desc. node	997 Dec 11 j 05:20	17°♈42'43		min. Earth dist.	1000 Jun 03 j 01:52	17°♈15'11	0.28977 AU
	997 Dec 20 j 23:48	0°♈		morning rise	1000 Jun 09 j 05:47	13°♈33'09	
				direct	1000 Jun 24 j 17:02	8°♈58'00	
superior conj	998 Jan 11 j 06:05	26°♈42'58	-1°-5'-12	greatest brilliancy	1000 Jul 08 j 13:47	12°♈19'02	-4.5m
minimum elong	998 Jan 10 j 18:18	26°♈05'58	1°04'50		1000 Aug 02 j 22:00	0°♈	
	998 Jan 13 j 20:55	0°♈		morning max el	1000 Aug 12 j 18:11	9°♈05'27	45°57'13
max. Earth dist.	998 Jan 14 j 12:39	0°♈49'20	1.71366 AU				
	998 Feb 06 j 20:05	0°♈					
evening rise	998 Feb 20 j 23:19	17°♈36'49					
	998 Mar 02 j 22:40	0°♈					
	998 Mar 27 j 06:02	0°♈					
asc. node	998 Apr 03 j 08:50	8°♈43'45					
	998 Apr 20 j 19:30	0°♈					
	998 May 15 j 16:33	0°♈					
	998 Jun 10 j 00:04	0°♈					
	998 Jul 06 j 00:26	0°♈					