superior conj	601 Jul 17 j 23:56	26°♋47'40	1°06'53	
minimum elong	601 Jul 17 j 15:26	26°♋21'22	1°06'37	
	601 Jul 20 j 14:11	0°♌		
	601 Aug 13 j 18:59	0°♍		
evening rise	601 Aug 23 j 06:34	11°♍46'59		
	601 Sep 06 j 22:02	0°♎		
	601 Oct 01 j 00:49	0°♏		
desc. node	601 Oct 05 j 02:44	5°♏04'24		
	601 Oct 25 j 04:28	0°♐		
	601 Nov 18 j 10:12	0°♑		
	601 Dec 12 j 20:50	0°♒		
	602 Jan 06 j 18:47	0°♓		
asc. node	602 Jan 26 j 05:42	22°♓39'04		
	602 Feb 01 j 17:56	0°♈		
evening max el	602 Feb 26 j 12:30	26°♈15'42	46°02'19	
	602 Mar 02 j 08:44	0°♉		
greatest brilliancy	602 Apr 06 j 00:30	25°♉12'23	-4.8m	
retrograde	602 Apr 16 j 20:12	27°♉20'50		
evening set	602 May 02 j 07:10	22°♉43'50		
inferior conj	602 May 08 j 07:17	19°♉05'37	2°12'23	
minimum elong	602 May 08 j 11:58	18°♉58'14	2°11'03	
min. Earth dist.	602 May 08 j 11:16	18°♉59'19	0.28940 AU	
morning rise	602 May 14 j 16:48	15°♉13'53		
desc. node	602 May 17 j 19:15	13°♉39'13		
direct	602 May 29 j 21:16	10°♉47'40		
greatest brilliancy	602 Jun 09 j 05:39	12°♉42'23	-4.7m	
	602 Jul 06 j 01:36	0°♊		
morning max el	602 Jul 17 j 15:50	10°♊31'02	45°48'57	
	602 Aug 05 j 20:27	0°♋		
	602 Sep 01 j 19:05	0°♌		
asc. node	602 Sep 07 j 22:45	7°♌08'36		
	602 Sep 27 j 04:31	0°♍		
	602 Oct 21 j 18:09	0°♎		
	602 Nov 14 j 21:30	0°♏		
	602 Dec 08 j 20:31	0°♐		
desc. node	602 Dec 28 j 12:07	24°♐38'37		
	603 Jan 01 j 18:41	0°♑		
morning set	603 Jan 18 j 14:53	21°♑05'40		
	603 Jan 25 j 17:45	0°♒		
	603 Feb 18 j 18:47	0°♓		
superior conj	603 Feb 28 j 03:52	11°♓39'58	-1°24'46	
minimum elong	603 Feb 28 j 06:52	11°♓49'16	1°24'45	
max. Earth dist.	603 Mar 04 j 01:49	16°♓31'39	1.72395 AU	
	603 Mar 14 j 22:35	0°♈		
evening rise	603 Apr 07 j 21:59	29°♈36'04		
	603 Apr 08 j 05:46	0°♉		
asc. node	603 Apr 20 j 15:34	15°♉14'58		
	603 May 02 j 16:35	0°♊		
	603 May 27 j 07:13	0°♋		
	603 Jun 21 j 02:28	0°♌		
	603 Jul 16 j 04:28	0°♍		
desc. node	603 Aug 10 j 04:48	29°♍23'13		
	603 Aug 10 j 17:29	0°♎		
	603 Sep 06 j 02:21	0°♏		
evening max el	603 Oct 03 j 16:49	29°♏19'01	47°06'45	
	603 Oct 04 j 09:18	0°♐		
	603 Nov 12 j 11:44	0°♑		
greatest brilliancy	603 Nov 13 j 08:47	0°♑19'52	-4.9m	
retrograde	603 Nov 23 j 07:04	2°♑13'06		
asc. node	603 Dec 01 j 08:04	0°♑52'42		
	603 Dec 03 j 16:24	30°℞♐		
evening set	603 Dec 07 j 17:29	28°♐03'27		
inferior conj	603 Dec 13 j 20:49	24°♐27'17	3°11'00	
minimum elong	603 Dec 13 j 14:00	24°♐37'44	3°08'56	
min. Earth dist.	603 Dec 13 j 06:39	24°♐48'59	0.26481 AU	
morning rise	603 Dec 19 j 10:48	21°♐09'46		
direct	604 Jan 03 j 03:42	16°♐50'11		
greatest brilliancy	604 Jan 12 j 17:16	18°♐34'22	-4.9m	
	604 Feb 01 j 01:27	0°♑		
morning max el	604 Feb 22 j 03:59	18°♑58'04	46°33'41	
	604 Mar 03 j 23:21	0°♒		
desc. node	604 Mar 21 j 21:47	19°♒22'52		
	604 Mar 31 j 09:33	0°♓		
	604 Apr 26 j 12:21	0°♈		
	604 May 22 j 00:36	0°♉		
	604 Jun 16 j 03:28	0°♊		
	604 Jul 10 j 22:13	0°♋		
asc. node	604 Jul 13 j 00:56	2°♋34'33		
	604 Aug 04 j 09:18	0°♌		
morning set	604 Aug 18 j 20:21	17°♌53'58		
	604 Aug 28 j 13:49	0°♍		
	604 Sep 21 j 13:51	0°♎		
max. Earth dist.	604 Sep 22 j 19:31	1°♎32'59	1.71642 AU	
superior conj	604 Sep 25 j 09:28	4°♎47'09	1°13'25	
minimum elong	604 Sep 25 j 18:22	5°♎15'02	1°13'11	
	604 Oct 15 j 11:41	0°♏		
desc. node	604 Nov 01 j 14:36	21°♏30'03		
evening rise	604 Nov 04 j 11:02	25°♏04'51		
	604 Nov 08 j 09:05	0°♐		
	604 Dec 02 j 07:11	0°♑		
	604 Dec 26 j 07:16	0°♒		
	605 Jan 19 j 11:34	0°♓		
	605 Feb 13 j 00:00	0°♈		
asc. node	605 Feb 22 j 17:46	11°♈44'31		
	605 Mar 10 j 02:38	0°♉		
	605 Apr 05 j 06:06	0°♊		
	605 May 03 j 13:36	0°♋		
evening max el	605 May 08 j 03:23	4°♋27'12	45°19'50	
	605 Jun 10 j 08:58	0°♌		
desc. node	605 Jun 14 j 07:08	1°♌42'27		
greatest brilliancy	605 Jun 15 j 01:57	1°♌59'54	-4.7m	
retrograde	605 Jun 25 j 15:47	3°♌59'31		
	605 Jul 10 j 01:05	30°℞♋		
evening set	605 Jul 11 j 19:27	29°♋02'09		
inferior conj	605 Jul 17 j 00:52	25°♋53'36	-6°44'03	
minimum elong	605 Jul 16 j 15:01	26°♋08'51	6°42'13	
min. Earth dist.	605 Jul 17 j 04:14	25°♋48'23	0.28779 AU	
morning rise	605 Jul 21 j 10:25	23°♋13'12		
direct	605 Aug 07 j 15:22	17°♋38'56		
greatest brilliancy	605 Aug 18 j 09:42	19°♋45'28	-4.8m	
	605 Sep 04 j 21:52	0°♌		
morning max el	605 Sep 26 j 12:48	19°♌15'23	46°25'44	
asc. node	605 Oct 05 j 10:30	28°♌22'59		
	605 Oct 06 j 23:11	0°♍		
	605 Nov 02 j 17:58	0°♎		
	605 Nov 27 j 22:28	0°♏		
	605 Dec 22 j 11:38	0°♐		
	606 Jan 15 j 19:05	0°♑		
desc. node	606 Jan 24 j 23:59	11°♑23'05		
	606 Feb 09 j 01:07	0°♒		
	606 Mar 05 j 07:32	0°♓		
	606 Mar 29 j 15:10	0°♈		
morning set	606 Apr 02 j 08:24	4°♈34'43		
	606 Apr 23 j 00:15	0°♉		
superior conj	606 May 09 j 12:30	20°♉17'05	-0°20'17	
minimum elong	606 May 09 j 16:38	20°♉29'47	0°20'04	
max. Earth dist.	606 May 09 j 22:16	20°♉47'05	1.73583 AU	

	606 May 17 j 10:19	0°♊	
asc. node	606 May 18 j 03:20	0°♊52'15	
	606 Jun 10 j 20:38	0°♋	
evening rise	606 Jun 14 j 17:58	4°♋46'42	
	606 Jul 05 j 06:46	0°♌	
	606 Jul 29 j 17:17	0°♍	
	606 Aug 23 j 05:31	0°♎	
desc. node	606 Sep 06 j 16:52	17°♎38'13	
	606 Sep 16 j 21:12	0°♏	
	606 Oct 11 j 18:40	0°♐	
	606 Nov 06 j 03:17	0°♑	
	606 Dec 02 j 14:59	0°♒	
evening max el	606 Dec 14 j 22:15	13°♒00'58	47°12'57
asc. node	606 Dec 28 j 19:56	26°♒26'23	
	607 Jan 01 j 21:32	0°♓	
greatest brilliancy	607 Jan 24 j 05:23	14°♓31'00	-4.9m
retrograde	607 Feb 03 j 19:32	16°♓38'17	
evening set	607 Feb 21 j 17:37	10°♓22'12	
inferior conj	607 Feb 24 j 20:27	8°♓24'48	8°38'58
minimum elong	607 Feb 24 j 22:18	8°♓21'52	8°38'55
min. Earth dist.	607 Feb 24 j 06:48	8°♓46'24	0.28133 AU
morning rise	607 Feb 28 j 03:16	6°♓22'03	
direct	607 Mar 17 j 20:35	0°♓21'54	
greatest brilliancy	607 Mar 26 j 22:46	1°♓54'22	-4.8m
desc. node	607 Apr 19 j 09:25	16°♓01'12	
	607 May 05 j 03:20	0°♈	
morning max el	607 May 05 j 21:32	0°♈43'32	45°52'57
	607 Jun 03 j 06:04	0°♉	
	607 Jun 30 j 00:59	0°♊	
	607 Jul 25 j 17:33	0°♋	
asc. node	607 Aug 10 j 12:54	18°♋54'41	
	607 Aug 19 j 16:39	0°♌	
	607 Sep 13 j 03:00	0°♍	
	607 Oct 07 j 04:50	0°♎	
greatest brilliancy	607 Oct 24 j 22:42	22°♎16'15	-3.9m
morning set	607 Oct 30 j 23:31	29°♎51'41	
	607 Oct 31 j 02:09	0°♏	
	607 Nov 23 j 21:57	0°♐	
desc. node	607 Nov 30 j 02:20	7°♐47'11	
superior conj	607 Dec 11 j 05:00	21°♐46'15	-0°26'05
minimum elong	607 Dec 10 j 22:10	21°♐24'48	0°25'46
max. Earth dist.	607 Dec 13 j 07:42	24°♐25'44	1.71075 AU
	607 Dec 17 j 18:01	0°♑	
	608 Jan 10 j 15:26	0°♒	
evening rise	608 Jan 21 j 18:07	13°♒54'34	
	608 Feb 03 j 15:28	0°♓	
	608 Feb 27 j 19:51	0°♈	
asc. node	608 Mar 22 j 05:44	28°♈44'11	
	608 Mar 23 j 06:35	0°♉	
	608 Apr 17 j 01:58	0°♊	
	608 May 12 j 09:14	0°♋	
	608 Jun 07 j 11:15	0°♌	
	608 Jul 05 j 01:59	0°♍	
desc. node	608 Jul 11 j 19:02	6°♍50'38	
evening max el	608 Jul 18 j 21:37	13°♍49'17	45°52'28
	608 Aug 06 j 08:03	0°♎	
greatest brilliancy	608 Aug 28 j 00:01	12°♎32'08	-4.8m
retrograde	608 Sep 05 j 23:36	14°♎00'37	
evening set	608 Sep 23 j 02:02	8°♎32'19	
inferior conj	608 Sep 26 j 20:37	6°♎16'29	-7°37'22
minimum elong	608 Sep 27 j 06:04	6°♎02'03	7°35'50
min. Earth dist.	608 Sep 27 j 17:54	5°♎43'58	0.27308 AU
morning rise	608 Oct 01 j 09:40	3°♎33'05	
	608 Oct 08 j 20:11	30°℞♍	
direct	608 Oct 17 j 17:07	28°♍23'54	
	608 Oct 26 j 21:38	0°♎	
greatest brilliancy	608 Oct 28 j 19:35	0°♎42'09	-4.9m
asc. node	608 Nov 01 j 22:14	2°♎34'49	
	608 Dec 05 j 15:14	0°♏	
morning max el	608 Dec 07 j 11:30	1°♏52'21	46°56'23
	609 Jan 02 j 08:44	0°♐	
	609 Jan 28 j 04:29	0°♑	
desc. node	609 Feb 21 j 12:00	28°♑59'41	
	609 Feb 22 j 08:05	0°♒	
	609 Mar 19 j 05:03	0°♓	
	609 Apr 12 j 23:05	0°♈	
	609 May 07 j 15:22	0°♉	
	609 Jun 01 j 05:40	0°♊	
morning set	609 Jun 09 j 11:02	10°♊03'46	
asc. node	609 Jun 14 j 15:12	16°♊24'08	
	609 Jun 25 j 17:04	0°♋	
max. Earth dist.	609 Jul 12 j 09:31	20°♋33'23	1.73181 AU
superior conj	609 Jul 15 j 18:10	24°♋42'20	1°04'54
minimum elong	609 Jul 15 j 09:32	24°♋15'40	1°04'37
	609 Jul 20 j 00:59	0°♌	
	609 Aug 13 j 05:53	0°♍	
evening rise	609 Aug 20 j 23:02	9°♍35'01	
	609 Sep 06 j 09:07	0°♎	
	609 Sep 30 j 12:10	0°♏	
desc. node	609 Oct 04 j 04:44	4°♏35'10	
	609 Oct 24 j 16:09	0°♐	
	609 Nov 17 j 22:18	0°♑	
	609 Dec 12 j 09:32	0°♒	
	610 Jan 06 j 08:34	0°♓	
asc. node	610 Jan 25 j 07:56	22°♓01'53	
	610 Feb 01 j 10:04	0°♈	
evening max el	610 Feb 24 j 02:58	23°♈59'36	46°04'53
	610 Mar 02 j 08:25	0°♉	
greatest brilliancy	610 Apr 03 j 17:15	23°♉03'52	-4.8m
retrograde	610 Apr 14 j 12:59	25°♉12'52	
evening set	610 Apr 30 j 01:31	20°♉32'50	
inferior conj	610 May 05 j 23:56	16°♉57'15	2°31'16
minimum elong	610 May 06 j 05:14	16°♉48'54	2°29'46
min. Earth dist.	610 May 06 j 04:07	16°♉50'40	0.28937 AU
morning rise	610 May 12 j 08:57	13°♉06'16	
desc. node	610 May 16 j 21:13	10°♉54'07	
direct	610 May 27 j 13:11	8°♉39'07	
greatest brilliancy	610 Jun 06 j 22:03	10°♉34'17	-4.7m
	610 Jul 06 j 05:21	0°♊	
morning max el	610 Jul 15 j 08:19	8°♊22'30	45°48'16
	610 Aug 05 j 13:20	0°♋	
	610 Sep 01 j 08:56	0°♌	
asc. node	610 Sep 07 j 00:48	6°♌35'17	
	610 Sep 26 j 17:05	0°♍	
	610 Oct 21 j 06:04	0°♎	
	610 Nov 14 j 09:02	0°♏	
	610 Dec 08 j 07:50	0°♐	
desc. node	610 Dec 27 j 14:11	24°♐10'00	
	611 Jan 01 j 05:50	0°♑	
morning set	611 Jan 16 j 00:51	18°♑31'56	
	611 Jan 25 j 04:47	0°♒	
	611 Feb 18 j 05:42	0°♓	
superior conj	611 Feb 25 j 17:09	9°♓18'19	-1°25'12
minimum elong	611 Feb 25 j 19:16	9°♓24'55	1°25'12
max. Earth dist.	611 Mar 01 j 13:28	14°♓05'10	1.72336 AU
	611 Mar 14 j 09:24	0°♈	
evening rise	611 Apr 05 j 13:52	27°♈24'02	
	611 Apr 07 j 16:33	0°♉	
asc. node	611 Apr 19 j 17:34	14°♉47'55	
	611 May 02 j 03:27	0°♊	
	611 May 26 j 18:22	0°♋	

	611 Jun 20 j 14:08	0°♌	
	611 Jul 15 j 17:00	0°♍	
desc. node	611 Aug 09 j 06:55	28°♍48'59	
	611 Aug 10 j 07:29	0°♎	
	611 Sep 05 j 19:08	0°♏	
evening max el	611 Oct 01 j 06:54	26°♏56'23	47°04'57
	611 Oct 04 j 09:30	0°♐	
greatest brilliancy	611 Nov 10 j 21:38	27°♐50'35	-4.9m
retrograde	611 Nov 20 j 20:08	29°♐43'42	
asc. node	611 Nov 30 j 10:08	27°♐49'40	
evening set	611 Dec 05 j 04:46	25°♐35'39	
inferior conj	611 Dec 11 j 09:04	21°♐58'28	2°47'58
minimum elong	611 Dec 11 j 02:57	22°♐07'48	2°46'05
min. Earth dist.	611 Dec 10 j 19:51	22°♐18'39	0.26453 AU
morning rise	611 Dec 17 j 01:29	18°♐38'12	
direct	611 Dec 31 j 16:19	14°♐21'45	
greatest brilliancy	612 Jan 10 j 06:30	16°♐07'03	-4.9m
	612 Feb 01 j 15:11	0°♑	
morning max el	612 Feb 19 j 18:33	16°♑37'59	46°35'08
	612 Mar 03 j 18:44	0°♒	
desc. node	612 Mar 20 j 23:45	18°♒43'37	
	612 Mar 31 j 00:32	0°♓	
	612 Apr 26 j 01:22	0°♈	
	612 May 21 j 12:32	0°♉	
	612 Jun 15 j 14:45	0°♊	
	612 Jul 10 j 09:10	0°♋	
asc. node	612 Jul 12 j 03:08	2°♋07'58	
	612 Aug 03 j 20:05	0°♌	
morning set	612 Aug 16 j 12:53	15°♌42'57	
	612 Aug 28 j 00:35	0°♍	
max. Earth dist.	612 Sep 20 j 05:52	29°♍01'07	1.71689 AU
	612 Sep 21 j 00:40	0°♎	
superior conj	612 Sep 22 j 23:41	2°♎27'16	1°15'08
minimum elong	612 Sep 23 j 08:03	2°♎53'29	1°14'56
	612 Oct 14 j 22:36	0°♏	
desc. node	612 Oct 31 j 16:37	21°♏01'48	
evening rise	612 Nov 01 j 21:43	22°♏33'09	
	612 Nov 07 j 20:07	0°♐	
	612 Dec 01 j 18:22	0°♑	
	612 Dec 25 j 18:36	0°♒	
	613 Jan 18 j 23:09	0°♓	
	613 Feb 12 j 12:04	0°♈	
asc. node	613 Feb 21 j 19:49	11°♈13'36	
	613 Mar 09 j 15:38	0°♉	
	613 Apr 04 j 21:09	0°♊	
	613 May 03 j 10:26	0°♋	
evening max el	613 May 05 j 19:58	2°♋19'02	45°20'08
greatest brilliancy	613 Jun 12 j 16:42	29°♋49'42	-4.7m
desc. node	613 Jun 13 j 09:17	0°♌04'13	
	613 Jun 13 j 04:22	0°♌	
retrograde	613 Jun 23 j 07:19	1°♌49'45	
	613 Jul 02 j 23:03	30°℞♋	
evening set	613 Jul 09 j 08:22	26°♋56'38	
inferior conj	613 Jul 14 j 16:45	23°♋43'29	-6°30'52
minimum elong	613 Jul 14 j 06:48	23°♋58'55	6°28'57
min. Earth dist.	613 Jul 14 j 19:31	23°♋39'10	0.28801 AU
morning rise	613 Jul 19 j 05:04	20°♋58'43	
direct	613 Aug 05 j 07:54	15°♋28'41	
greatest brilliancy	613 Aug 16 j 00:45	17°♋33'36	-4.8m
	613 Sep 05 j 09:41	0°♌	
morning max el	613 Sep 24 j 03:37	16°♌58'57	46°24'01
asc. node	613 Oct 04 j 12:31	27°♌38'34	
	613 Oct 06 j 17:36	0°♍	
	613 Nov 02 j 08:37	0°♎	
	613 Nov 27 j 11:35	0°♏	
	613 Dec 21 j 23:55	0°♐	
	614 Jan 15 j 06:50	0°♑	
desc. node	614 Jan 24 j 02:11	10°♑54'03	
	614 Feb 08 j 12:27	0°♒	
	614 Mar 04 j 18:34	0°♓	
	614 Mar 29 j 01:59	0°♈	
morning set	614 Mar 31 j 00:19	2°♈22'44	
	614 Apr 22 j 10:55	0°♉	
superior conj	614 May 07 j 06:09	18°♉11'18	-0°23'22
minimum elong	614 May 07 j 10:54	18°♉25'52	0°23'09
max. Earth dist.	614 May 07 j 20:30	18°♉55'20	1.73563 AU
	614 May 16 j 20:56	0°♊	
asc. node	614 May 17 j 05:28	0°♊26'12	
	614 Jun 10 j 07:16	0°♋	
evening rise	614 Jun 12 j 13:08	2°♋45'23	
	614 Jul 04 j 17:33	0°♌	
	614 Jul 29 j 04:22	0°♍	
	614 Aug 22 j 17:04	0°♎	
desc. node	614 Sep 05 j 18:53	17°♎08'03	
	614 Sep 16 j 09:28	0°♏	
	614 Oct 11 j 07:58	0°♐	
	614 Nov 05 j 18:19	0°♑	
	614 Dec 02 j 09:47	0°♒	
evening max el	614 Dec 12 j 13:13	10°♒40'26	47°14'20
asc. node	614 Dec 27 j 22:10	25°♒24'58	
	615 Jan 02 j 07:48	0°♓	
greatest brilliancy	615 Jan 21 j 21:41	12°♓13'47	-4.9m
retrograde	615 Feb 01 j 10:37	14°♓19'59	
evening set	615 Feb 19 j 08:50	8°♓04'39	
inferior conj	615 Feb 22 j 11:30	6°♓07'25	8°41'01
minimum elong	615 Feb 22 j 12:32	6°♓05'47	8°41'01
min. Earth dist.	615 Feb 21 j 21:05	6°♓30'14	0.28076 AU
morning rise	615 Feb 25 j 16:29	4°♓07'17	
	615 Mar 05 j 17:21	30°℞♒	
direct	615 Mar 15 j 10:48	28°♒05'39	
greatest brilliancy	615 Mar 24 j 12:23	29°♒37'18	-4.8m
	615 Mar 25 j 14:57	0°♓	
desc. node	615 Apr 18 j 11:29	14°♓58'28	
morning max el	615 May 03 j 11:28	28°♓27'27	45°53'54
	615 May 05 j 01:48	0°♈	
	615 Jun 02 j 21:44	0°♉	
	615 Jun 29 j 14:11	0°♊	
	615 Jul 25 j 05:35	0°♋	
asc. node	615 Aug 09 j 14:57	18°♋25'59	
	615 Aug 19 j 04:03	0°♌	
	615 Sep 12 j 14:03	0°♍	
	615 Oct 06 j 15:46	0°♎	
greatest brilliancy	615 Oct 23 j 22:04	21°♎39'54	-3.9m
morning set	615 Oct 28 j 11:41	27°♎24'37	
	615 Oct 30 j 13:05	0°♏	
	615 Nov 23 j 08:55	0°♐	
desc. node	615 Nov 29 j 04:30	7°♐19'31	
superior conj	615 Dec 08 j 14:29	19°♐10'41	-0°22'13
minimum elong	615 Dec 08 j 08:37	18°♐52'13	0°21'56
max. Earth dist.	615 Dec 10 j 09:33	21°♐26'06	1.71063 AU
	615 Dec 17 j 04:59	0°♑	
	616 Jan 10 j 02:25	0°♒	
evening rise	616 Jan 19 j 04:28	11°♒22'29	
	616 Feb 03 j 02:29	0°♓	
	616 Feb 27 j 06:57	0°♈	
asc. node	616 Mar 21 j 07:45	28°♈15'53	
	616 Mar 22 j 17:55	0°♉	
	616 Apr 16 j 13:45	0°♊	
	616 May 11 j 21:57	0°♋	
	616 Jun 07 j 01:49	0°♌	
	616 Jul 04 j 20:57	0°♍	

desc. node	616 Jul 10 j 21:11	6°♍04'07		
evening max el	616 Jul 16 j 10:21	11°♍29'11	45°50'18	
	616 Aug 06 j 23:11	0°♎		
greatest brilliancy	616 Aug 25 j 12:41	10°♎11'14	-4.8m	
retrograde	616 Sep 03 j 12:15	11°♎40'07		
evening set	616 Sep 20 j 18:11	6°♎06'52		
inferior conj	616 Sep 24 j 10:06	3°♎55'08	-7°48'03	
minimum elong	616 Sep 24 j 19:05	3°♎41'25	7°46'44	
min. Earth dist.	616 Sep 25 j 07:41	3°♎22'12	0.27375 AU	
morning rise	616 Sep 28 j 19:33	1°♎16'58		
	616 Oct 01 j 03:10	30°℞♍		
direct	616 Oct 15 j 06:57	26°♍01'13		
greatest brilliancy	616 Oct 26 j 10:49	28°♍20'46	-4.9m	
	616 Oct 30 j 02:51	0°♎		
asc. node	616 Nov 01 j 00:19	0°♎59'54		
morning max el	616 Dec 05 j 01:27	29°♎28'13	46°56'06	
	616 Dec 05 j 13:52	0°♏		
	617 Jan 02 j 01:05	0°♐		
	617 Jan 27 j 18:27	0°♑		
desc. node	617 Feb 20 j 13:56	28°♑27'12		
	617 Feb 21 j 20:48	0°♒		
	617 Mar 18 j 17:00	0°♓		
	617 Apr 12 j 10:29	0°♈		
	617 May 07 j 02:23	0°♉		
	617 May 31 j 16:27	0°♊		
morning set	617 Jun 07 j 05:18	7°♊59'50		
asc. node	617 Jun 13 j 17:22	15°♊57'56		
	617 Jun 25 j 03:44	0°♋		
max. Earth dist.	617 Jul 10 j 07:04	18°♋38'48	1.73222 AU	
superior conj	617 Jul 13 j 12:31	22°♋37'48	1°02'50	
minimum elong	617 Jul 13 j 03:48	22°♋10'55	1°02'33	
	617 Jul 19 j 11:40	0°♌		
	617 Aug 12 j 16:41	0°♍		
evening rise	617 Aug 18 j 15:56	7°♍24'46		
	617 Sep 05 j 20:07	0°♎		
	617 Sep 29 j 23:25	0°♏		
desc. node	617 Oct 03 j 06:48	4°♏06'30		
	617 Oct 24 j 03:42	0°♐		
	617 Nov 17 j 10:17	0°♑		
	617 Dec 11 j 22:12	0°♒		
	618 Jan 05 j 22:25	0°♓		
asc. node	618 Jan 24 j 09:55	21°♓23'38		
	618 Feb 01 j 02:33	0°♈		
evening max el	618 Feb 21 j 18:19	21°♈45'21	46°07'24	
	618 Mar 02 j 09:27	0°♉		
greatest brilliancy	618 Apr 01 j 09:31	20°♉54'07	-4.8m	
retrograde	618 Apr 12 j 06:04	23°♉04'03		
evening set	618 Apr 27 j 19:52	18°♉20'56		
inferior conj	618 May 03 j 16:25	14°♉48'01	2°49'59	
minimum elong	618 May 03 j 22:18	14°♉38'45	2°48'22	
min. Earth dist.	618 May 03 j 20:29	14°♉41'37	0.28929 AU	
morning rise	618 May 10 j 00:48	10°♉58'14		
desc. node	618 May 15 j 23:21	8°♉12'13		
direct	618 May 25 j 05:28	6°♉29'54		
greatest brilliancy	618 Jun 04 j 13:49	8°♉25'07	-4.7m	
	618 Jul 06 j 07:34	0°♊		
morning max el	618 Jul 13 j 01:13	6°♊15'04	45°47'39	
	618 Aug 05 j 05:52	0°♋		
	618 Aug 31 j 22:38	0°♌		
asc. node	618 Sep 06 j 02:47	6°♌01'58		
	618 Sep 26 j 05:33	0°♍		
	618 Oct 20 j 17:55	0°♎		
	618 Nov 13 j 20:33	0°♏		
	618 Dec 07 j 19:08	0°♐		
desc. node	618 Dec 26 j 16:20	23°♐41'45		
	618 Dec 31 j 16:58	0°♑		
morning set	619 Jan 13 j 11:09	15°♑59'11		
	619 Jan 24 j 15:49	0°♒		
	619 Feb 17 j 16:39	0°♓		
superior conj	619 Feb 23 j 06:19	6°♓56'00	-1°25'30	
minimum elong	619 Feb 23 j 07:32	6°♓59'46	1°25'30	
max. Earth dist.	619 Feb 27 j 02:31	11°♓42'38	1.72285 AU	
	619 Mar 13 j 20:18	0°♈		
evening rise	619 Apr 03 j 05:27	25°♈10'41		
	619 Apr 07 j 03:28	0°♉		
asc. node	619 Apr 18 j 19:41	14°♉20'44		
	619 May 01 j 14:29	0°♊		
	619 May 26 j 05:41	0°♋		
	619 Jun 20 j 01:58	0°♌		
	619 Jul 15 j 05:43	0°♍		
desc. node	619 Aug 08 j 08:54	28°♍13'50		
	619 Aug 09 j 21:43	0°♎		
	619 Sep 05 j 12:22	0°♏		
evening max el	619 Sep 28 j 21:45	24°♏35'31	47°03'00	
	619 Oct 04 j 11:01	0°♐		
greatest brilliancy	619 Nov 08 j 10:38	25°♐21'28	-4.9m	
retrograde	619 Nov 18 j 09:15	27°♐14'03		
asc. node	619 Nov 29 j 12:18	24°♐41'21		
evening set	619 Dec 02 j 16:25	23°♐07'40		
inferior conj	619 Dec 08 j 21:21	19°♐29'34	2°24'38	
minimum elong	619 Dec 08 j 16:01	19°♐37'42	2°22'57	
min. Earth dist.	619 Dec 08 j 09:09	19°♐48'11	0.26426 AU	
morning rise	619 Dec 14 j 16:01	16°♐06'36		
direct	619 Dec 29 j 05:12	11°♐53'26		
greatest brilliancy	620 Jan 07 j 19:36	13°♐39'20	-4.9m	
	620 Feb 02 j 01:28	0°♑		
morning max el	620 Feb 17 j 08:28	14°♑15'58	46°36'30	
	620 Mar 03 j 13:39	0°♒		
desc. node	620 Mar 20 j 01:51	18°♒04'51		
	620 Mar 30 j 15:27	0°♓		
	620 Apr 25 j 14:29	0°♈		
	620 May 21 j 00:38	0°♉		
	620 Jun 15 j 02:16	0°♊		
	620 Jul 09 j 20:20	0°♋		
asc. node	620 Jul 11 j 05:09	1°♋40'07		
	620 Aug 03 j 07:05	0°♌		
morning set	620 Aug 14 j 05:24	13°♌31'25		
	620 Aug 27 j 11:32	0°♍		
max. Earth dist.	620 Sep 17 j 15:34	26°♍26'48	1.71739 AU	
	620 Sep 20 j 11:40	0°♎		
superior conj	620 Sep 20 j 14:06	0°♎07'38	1°16'41	
minimum elong	620 Sep 20 j 21:54	0°♎32'04	1°16'32	
	620 Oct 14 j 09:43	0°♏		
evening rise	620 Oct 30 j 08:37	20°♏01'26		
desc. node	620 Oct 30 j 18:46	20°♏33'18		
	620 Nov 07 j 07:23	0°♐		
	620 Dec 01 j 05:47	0°♑		
	620 Dec 25 j 06:11	0°♒		
	621 Jan 18 j 10:59	0°♓		
	621 Feb 12 j 00:22	0°♈		
asc. node	621 Feb 20 j 21:51	10°♈41'57		
	621 Mar 09 j 04:57	0°♉		
	621 Apr 04 j 12:41	0°♊		
	621 May 03 j 08:25	0°♋		
evening max el	621 May 03 j 11:47	0°♋08'05	45°20'21	
greatest brilliancy	621 Jun 10 j 08:04	27°♋39'03	-4.7m	
desc. node	621 Jun 12 j 11:24	28°♋21'18		
retrograde	621 Jun 20 j 22:28	29°♋39'06		
evening set	621 Jul 06 j 21:25	24°♋50'01		
inferior conj	621 Jul 12 j 08:40	21°♋32'36	-6°17'12	
minimum elong	621 Jul 11 j 22:41	21°♋48'08	6°15'11	

min. Earth dist.	621 Jul 12 j 11:15	21°♋28'35	0.28820 AU
morning rise	621 Jul 16 j 23:44	18°♋43'30	
direct	621 Aug 03 j 00:01	13°♋17'36	
greatest brilliancy	621 Aug 13 j 16:28	15°♋21'37	-4.8m
	621 Sep 05 j 18:48	0°♌	
morning max el	621 Sep 21 j 17:28	14°♌39'21	46°22'24
asc. node	621 Oct 03 j 14:43	26°♌54'26	
	621 Oct 06 j 11:51	0°♍	
	621 Nov 01 j 23:21	0°♎	
	621 Nov 27 j 00:49	0°♏	
	621 Dec 21 j 12:23	0°♐	
	622 Jan 14 j 18:49	0°♑	
desc. node	622 Jan 23 j 04:06	10°♑23'21	
	622 Feb 08 j 00:04	0°♒	
	622 Mar 04 j 05:52	0°♓	
morning set	622 Mar 28 j 16:18	0°♈10'01	
	622 Mar 28 j 13:03	0°♈	
	622 Apr 21 j 21:51	0°♉	
superior conj	622 May 04 j 23:54	16°♉04'55	-0°26'26
minimum elong	622 May 05 j 05:14	16°♉21'16	0°26'11
max. Earth dist.	622 May 05 j 17:48	16°♉59'52	1.73543 AU
asc. node	622 May 16 j 07:36	29°♉59'16	
	622 May 16 j 07:50	0°♊	
	622 Jun 09 j 18:15	0°♋	
evening rise	622 Jun 10 j 08:14	0°♋42'58	
	622 Jul 04 j 04:42	0°♌	
	622 Jul 28 j 15:50	0°♍	
	622 Aug 22 j 05:02	0°♎	
desc. node	622 Sep 04 j 20:55	16°♎36'50	
	622 Sep 15 j 22:08	0°♏	
	622 Oct 10 j 21:42	0°♐	
	622 Nov 05 j 09:53	0°♑	
	622 Dec 02 j 05:30	0°♒	
evening max el	622 Dec 10 j 03:05	8°♒15'54	47°15'33
asc. node	622 Dec 27 j 00:10	24°♒20'23	
	623 Jan 02 j 22:13	0°♓	
greatest brilliancy	623 Jan 19 j 13:57	9°♓54'54	-4.9m
retrograde	623 Jan 30 j 01:18	12°♓00'08	
evening set	623 Feb 16 j 23:29	5°♓46'00	
min. Earth dist.	623 Feb 19 j 11:29	4°♓12'05	0.28020 AU
inferior conj	623 Feb 20 j 02:24	3°♓48'27	8°42'15
minimum elong	623 Feb 20 j 02:36	3°♓48'09	8°42'15
morning rise	623 Feb 23 j 05:56	1°♓50'28	
	623 Feb 26 j 10:03	30°℞♒	
direct	623 Mar 13 j 00:28	25°♒47'34	
greatest brilliancy	623 Mar 22 j 02:24	27°♒19'13	-4.8m
	623 Mar 28 j 12:31	0°♓	
desc. node	623 Apr 17 j 13:35	13°♓56'19	
morning max el	623 May 01 j 01:12	26°♓09'42	45°55'03
	623 May 04 j 23:48	0°♈	
	623 Jun 02 j 13:30	0°♉	
	623 Jun 29 j 03:38	0°♊	
	623 Jul 24 j 17:54	0°♋	
asc. node	623 Aug 08 j 16:57	17°♋56'03	
	623 Aug 18 j 15:47	0°♌	
	623 Sep 12 j 01:30	0°♍	
	623 Oct 06 j 03:05	0°♎	
greatest brilliancy	623 Oct 22 j 23:17	21°♎08'14	-3.9m
morning set	623 Oct 25 j 23:50	24°♎56'23	
	623 Oct 30 j 00:21	0°♏	
	623 Nov 22 j 20:10	0°♐	
desc. node	623 Nov 28 j 06:33	6°♐50'31	
superior conj	623 Dec 05 j 23:55	16°♐33'57	-0°18'18
minimum elong	623 Dec 05 j 19:02	16°♐18'36	0°18'03
max. Earth dist.	623 Dec 07 j 12:31	18°♐29'06	1.71053 AU
	623 Dec 16 j 16:15	0°♑	
	624 Jan 09 j 13:42	0°♒	
evening rise	624 Jan 16 j 14:51	8°♒49'30	
	624 Feb 02 j 13:49	0°♓	
	624 Feb 26 j 18:23	0°♈	
asc. node	624 Mar 20 j 09:54	27°♈46'55	
	624 Mar 22 j 05:35	0°♉	
	624 Apr 16 j 01:54	0°♊	
	624 May 11 j 11:02	0°♋	
	624 Jun 06 j 16:52	0°♌	
	624 Jul 04 j 16:53	0°♍	
desc. node	624 Jul 09 j 23:06	5°♍15'17	
evening max el	624 Jul 13 j 23:24	9°♍09'02	45°48'07
	624 Aug 07 j 20:15	0°♎	
greatest brilliancy	624 Aug 23 j 00:27	7°♎48'11	-4.8m
retrograde	624 Sep 01 j 01:21	9°♎18'10	
evening set	624 Sep 18 j 10:02	3°♎40'00	
inferior conj	624 Sep 21 j 23:23	1°♎32'05	-7°57'59
minimum elong	624 Sep 22 j 07:50	1°♎19'12	7°56'50
min. Earth dist.	624 Sep 22 j 20:51	0°♎59'22	0.27445 AU
	624 Sep 24 j 12:05	30°℞♍	
morning rise	624 Sep 26 j 05:15	28°♍59'19	
direct	624 Oct 12 j 21:04	23°♍36'56	
greatest brilliancy	624 Oct 24 j 01:28	25°♍57'19	-4.9m
asc. node	624 Oct 31 j 02:26	29°♍26'58	
	624 Nov 01 j 00:34	0°♎	
morning max el	624 Dec 02 j 16:08	27°♎04'52	46°55'52
	624 Dec 05 j 12:05	0°♏	
	625 Jan 01 j 17:30	0°♐	
	625 Jan 27 j 08:34	0°♑	
desc. node	625 Feb 19 j 16:03	27°♑54'35	
	625 Feb 21 j 09:42	0°♒	
	625 Mar 18 j 05:09	0°♓	
	625 Apr 11 j 22:08	0°♈	
	625 May 06 j 13:40	0°♉	
	625 May 31 j 03:29	0°♊	
morning set	625 Jun 04 j 23:40	5°♊55'24	
asc. node	625 Jun 12 j 19:22	15°♊30'28	
	625 Jun 24 j 14:39	0°♋	
max. Earth dist.	625 Jul 08 j 05:36	16°♋46'36	1.73259 AU
superior conj	625 Jul 11 j 06:55	20°♋32'46	1°00'41
minimum elong	625 Jul 10 j 22:11	20°♋05'49	1°00'23
	625 Jul 18 j 22:35	0°♌	
	625 Aug 12 j 03:44	0°♍	
evening rise	625 Aug 16 j 08:57	5°♍14'11	
	625 Sep 05 j 07:23	0°♎	
	625 Sep 29 j 10:58	0°♏	
desc. node	625 Oct 02 j 08:57	3°♏37'12	
	625 Oct 23 j 15:35	0°♐	
	625 Nov 16 j 22:38	0°♑	
	625 Dec 11 j 11:14	0°♒	
	626 Jan 05 j 12:41	0°♓	
asc. node	626 Jan 23 j 11:57	20°♓44'32	
	626 Jan 31 j 19:34	0°♈	
evening max el	626 Feb 19 j 10:14	19°♈31'44	46°09'59
	626 Mar 02 j 12:10	0°♉	
greatest brilliancy	626 Mar 30 j 01:42	18°♉43'36	-4.8m
retrograde	626 Apr 09 j 23:13	20°♉54'12	
evening set	626 Apr 25 j 14:18	16°♉08'06	
inferior conj	626 May 01 j 08:47	12°♉37'47	3°08'39
minimum elong	626 May 01 j 15:14	12°♉27'39	3°06'53
min. Earth dist.	626 May 01 j 12:27	12°♉32'01	0.28919 AU
morning rise	626 May 07 j 16:21	8°♉49'25	
desc. node	626 May 15 j 01:27	5°♉33'48	
direct	626 May 22 j 22:01	4°♉19'55	
greatest brilliancy	626 Jun 02 j 04:54	6°♉14'23	-4.7m

	626 Jul 06 j 08:40	0°♊	
morning max el	626 Jul 10 j 18:08	4°♊07'15	45°47'07
	626 Aug 04 j 22:16	0°♋	
	626 Aug 31 j 12:21	0°♌	
asc. node	626 Sep 05 j 04:59	5°♌29'09	
	626 Sep 25 j 18:06	0°♍	
	626 Oct 20 j 05:53	0°♎	
	626 Nov 13 j 08:13	0°♏	
	626 Dec 07 j 06:36	0°♐	
desc. node	626 Dec 25 j 18:19	23°♐12'17	
	626 Dec 31 j 04:18	0°♑	
morning set	627 Jan 10 j 20:58	13°♑24'22	
	627 Jan 24 j 03:01	0°♒	
	627 Feb 17 j 03:45	0°♓	
superior conj	627 Feb 20 j 18:57	4°♓31'33	-1°25'39
minimum elong	627 Feb 20 j 19:13	4°♓32'20	1°25'38
max. Earth dist.	627 Feb 24 j 17:30	9°♓25'42	1.72230 AU
	627 Mar 13 j 07:19	0°♈	
evening rise	627 Mar 31 j 20:44	22°♈56'01	
	627 Apr 06 j 14:28	0°♉	
asc. node	627 Apr 17 j 21:48	13°♉53'17	
	627 May 01 j 01:38	0°♊	
	627 May 25 j 17:08	0°♋	
	627 Jun 19 j 13:56	0°♌	
	627 Jul 14 j 18:33	0°♍	
desc. node	627 Aug 07 j 11:02	27°♍38'56	
	627 Aug 09 j 12:06	0°♎	
	627 Sep 05 j 05:56	0°♏	
evening max el	627 Sep 26 j 12:15	22°♏13'52	47°00'50
	627 Oct 04 j 13:56	0°♐	
greatest brilliancy	627 Nov 05 j 23:46	22°♐52'20	-4.9m
retrograde	627 Nov 15 j 21:41	24°♐43'39	
asc. node	627 Nov 28 j 14:17	21°♐27'36	
evening set	627 Nov 30 j 04:10	20°♐38'51	
inferior conj	627 Dec 06 j 09:29	17°♐00'04	2°00'46
minimum elong	627 Dec 06 j 04:59	17°♐06'56	1°59'20
min. Earth dist.	627 Dec 05 j 22:35	17°♐16'43	0.26405 AU
morning rise	627 Dec 12 j 06:12	13°♐34'21	
direct	627 Dec 26 j 17:46	9°♐24'28	
greatest brilliancy	628 Jan 05 j 08:59	11°♐11'04	-4.9m
	628 Feb 02 j 09:15	0°♑	
morning max el	628 Feb 14 j 21:19	11°♑50'37	46°37'50
	628 Mar 03 j 08:14	0°♒	
desc. node	628 Mar 19 j 04:00	17°♒26'16	
	628 Mar 30 j 06:14	0°♓	
	628 Apr 25 j 03:29	0°♈	
	628 May 20 j 12:39	0°♉	
	628 Jun 14 j 13:42	0°♊	
	628 Jul 09 j 07:26	0°♋	
asc. node	628 Jul 10 j 07:10	1°♋12'26	
	628 Aug 02 j 18:01	0°♌	
morning set	628 Aug 11 j 22:03	11°♌20'31	
	628 Aug 26 j 22:24	0°♍	
max. Earth dist.	628 Sep 15 j 01:38	23°♍54'03	1.71788 AU
superior conj	628 Sep 18 j 04:56	27°♍49'43	1°18'07
minimum elong	628 Sep 18 j 12:09	28°♍12'18	1°17'59
	628 Sep 19 j 22:33	0°♎	
	628 Oct 13 j 20:42	0°♏	
evening rise	628 Oct 27 j 19:53	17°♏31'26	
desc. node	628 Oct 29 j 20:49	20°♏04'59	
	628 Nov 06 j 18:31	0°♐	
	628 Nov 30 j 17:05	0°♑	
	628 Dec 24 j 17:40	0°♒	
	629 Jan 17 j 22:45	0°♓	
	629 Feb 11 j 12:39	0°♈	
asc. node	629 Feb 20 j 00:00	10°♈10'47	
	629 Mar 08 j 18:17	0°♉	
	629 Apr 04 j 04:22	0°♊	
evening max el	629 May 01 j 02:38	27°♊55'05	45°20'47
	629 May 03 j 07:10	0°♋	
greatest brilliancy	629 Jun 07 j 23:26	25°♋28'49	-4.7m
desc. node	629 Jun 11 j 13:20	26°♋34'57	
retrograde	629 Jun 18 j 13:35	27°♋29'09	
evening set	629 Jul 04 j 10:35	22°♋43'32	
inferior conj	629 Jul 10 j 00:36	19°♋22'17	-6°03'00
minimum elong	629 Jul 09 j 14:38	19°♋37'47	6°00'54
min. Earth dist.	629 Jul 10 j 03:13	19°♋18'12	0.28840 AU
morning rise	629 Jul 14 j 18:25	16°♋28'54	
direct	629 Jul 31 j 15:43	11°♋06'52	
greatest brilliancy	629 Aug 11 j 08:46	13°♋10'49	-4.8m
	629 Sep 06 j 01:12	0°♌	
morning max el	629 Sep 19 j 07:15	12°♌20'15	46°21'00
asc. node	629 Oct 02 j 16:44	26°♌11'01	
	629 Oct 06 j 05:27	0°♍	
	629 Nov 01 j 13:39	0°♎	
	629 Nov 26 j 13:43	0°♏	
	629 Dec 21 j 00:32	0°♐	
	630 Jan 14 j 06:29	0°♑	
desc. node	630 Jan 22 j 06:13	9°♑54'13	
	630 Feb 07 j 11:23	0°♒	
	630 Mar 03 j 16:55	0°♓	
morning set	630 Mar 26 j 07:50	27°♓56'27	
	630 Mar 27 j 23:54	0°♈	
	630 Apr 21 j 08:35	0°♉	
superior conj	630 May 02 j 17:18	13°♉58'10	-0°29'29
minimum elong	630 May 02 j 23:11	14°♉16'14	0°29'12
max. Earth dist.	630 May 03 j 13:09	14°♉59'07	1.73519 AU
asc. node	630 May 15 j 09:34	29°♉32'35	
	630 May 15 j 18:30	0°♊	
evening rise	630 Jun 08 j 03:06	28°♊40'41	
	630 Jun 09 j 04:57	0°♋	
	630 Jul 03 j 15:36	0°♌	
	630 Jul 28 j 03:03	0°♍	
	630 Aug 21 j 16:46	0°♎	
desc. node	630 Sep 03 j 23:05	16°♎06'42	
	630 Sep 15 j 10:36	0°♏	
	630 Oct 10 j 11:14	0°♐	
	630 Nov 05 j 01:17	0°♑	
	630 Dec 02 j 01:17	0°♒	
evening max el	630 Dec 07 j 16:35	5°♒51'46	47°16'49
asc. node	630 Dec 26 j 02:11	23°♒15'36	
	631 Jan 03 j 16:40	0°♓	
greatest brilliancy	631 Jan 17 j 05:44	7°♓36'42	-4.9m
retrograde	631 Jan 27 j 16:13	9°♓41'49	
evening set	631 Feb 14 j 13:45	3°♓29'05	
min. Earth dist.	631 Feb 17 j 01:49	1°♓55'21	0.27966 AU
inferior conj	631 Feb 17 j 17:22	1°♓30'46	8°42'33
minimum elong	631 Feb 17 j 16:44	1°♓31'47	8°42'32
	631 Feb 20 j 03:15	30°℞♒	
morning rise	631 Feb 20 j 19:54	29°♒34'26	
direct	631 Mar 10 j 14:13	23°♒30'35	
greatest brilliancy	631 Mar 19 j 16:37	25°♒02'36	-4.8m
	631 Mar 30 j 05:51	0°♓	
desc. node	631 Apr 16 j 15:39	12°♓56'37	
morning max el	631 Apr 28 j 15:40	23°♓54'33	45°56'09
	631 May 04 j 20:38	0°♈	
	631 Jun 02 j 04:42	0°♉	
	631 Jun 28 j 16:38	0°♊	
	631 Jul 24 j 05:49	0°♋	
asc. node	631 Aug 07 j 19:09	17°♋27'53	
	631 Aug 18 j 03:07	0°♌	

	631 Sep 11 j 12:33	0°♍	
	631 Oct 05 j 14:02	0°♎	
greatest brilliancy	631 Oct 22 j 02:29	20°♎43'58	-3.9m
morning set	631 Oct 23 j 12:11	22°♎29'55	
	631 Oct 29 j 11:16	0°♏	
	631 Nov 22 j 07:05	0°♐	
desc. node	631 Nov 27 j 08:34	6°♐22'30	
superior conj	631 Dec 03 j 09:33	13°♐58'54	-0°14'21
minimum elong	631 Dec 03 j 05:41	13°♐46'46	0°14'10
behind sun begin	631 Dec 02 j 16:10	13°♐04'11	
behind sun end	631 Dec 03 j 19:13	14°♐29'20	
max. Earth dist.	631 Dec 04 j 17:30	15°♐39'28	1.71042 AU
	631 Dec 16 j 03:08	0°♑	
	632 Jan 09 j 00:34	0°♒	
evening rise	632 Jan 14 j 01:32	6°♒18'46	
	632 Feb 02 j 00:43	0°♓	
	632 Feb 26 j 05:24	0°♈	
asc. node	632 Mar 19 j 11:57	27°♈18'58	
	632 Mar 21 j 16:51	0°♉	
	632 Apr 15 j 13:40	0°♊	
	632 May 10 j 23:49	0°♋	
	632 Jun 06 j 07:44	0°♌	
	632 Jul 04 j 12:59	0°♍	
desc. node	632 Jul 09 j 01:16	4°♍27'26	
evening max el	632 Jul 11 j 13:29	6°♍52'44	45°46'05
	632 Aug 09 j 00:07	0°♎	
greatest brilliancy	632 Aug 20 j 11:55	5°♎26'38	-4.8m
retrograde	632 Aug 29 j 14:54	6°♎57'54	
evening set	632 Sep 16 j 01:54	1°♎15'13	
	632 Sep 18 j 04:24	30°℞♍	
inferior conj	632 Sep 19 j 12:48	29°♍10'45	-8°07'00
minimum elong	632 Sep 19 j 20:41	28°♍58'44	8°06'01
min. Earth dist.	632 Sep 20 j 09:45	28°♍38'50	0.27515 AU
morning rise	632 Sep 23 j 15:08	26°♍43'13	
direct	632 Oct 10 j 11:47	21°♍14'34	
greatest brilliancy	632 Oct 21 j 15:32	23°♍34'45	-4.9m
asc. node	632 Oct 30 j 04:28	27°♍58'30	
	632 Nov 02 j 06:54	0°♎	
morning max el	632 Nov 30 j 07:21	24°♎44'11	46°55'29
	632 Dec 05 j 09:04	0°♏	
	633 Jan 01 j 09:14	0°♐	
	633 Jan 26 j 22:09	0°♑	
desc. node	633 Feb 18 j 18:12	27°♑23'25	
	633 Feb 20 j 22:07	0°♒	
	633 Mar 17 j 16:49	0°♓	
	633 Apr 11 j 09:18	0°♈	
	633 May 06 j 00:30	0°♉	
	633 May 30 j 14:07	0°♊	
morning set	633 Jun 02 j 18:09	3°♊52'36	
asc. node	633 Jun 11 j 21:27	15°♊04'22	
	633 Jun 24 j 01:11	0°♋	
max. Earth dist.	633 Jul 06 j 03:18	14°♋52'55	1.73295 AU
superior conj	633 Jul 09 j 01:20	18°♋28'54	0°58'27
minimum elong	633 Jul 08 j 16:38	18°♋02'02	0°58'08
	633 Jul 18 j 09:09	0°♌	
	633 Aug 11 j 14:26	0°♍	
evening rise	633 Aug 14 j 02:00	3°♍04'49	
	633 Sep 04 j 18:17	0°♎	
	633 Sep 28 j 22:10	0°♏	
desc. node	633 Oct 01 j 10:56	3°♏08'30	
	633 Oct 23 j 03:10	0°♐	
	633 Nov 16 j 10:43	0°♑	
	633 Dec 11 j 00:02	0°♒	
	634 Jan 05 j 02:44	0°♓	
asc. node	634 Jan 22 j 14:10	20°♓06'40	
	634 Jan 31 j 12:31	0°♈	
evening max el	634 Feb 17 j 02:36	17°♈20'23	46°12'39
	634 Mar 02 j 15:53	0°♉	
greatest brilliancy	634 Mar 27 j 18:36	16°♉35'33	-4.8m
retrograde	634 Apr 07 j 16:24	18°♉46'02	
evening set	634 Apr 23 j 09:05	13°♉57'09	
inferior conj	634 Apr 29 j 01:23	10°♉29'27	3°26'54
minimum elong	634 Apr 29 j 08:22	10°♉18'29	3°25'01
min. Earth dist.	634 Apr 29 j 04:35	10°♉24'25	0.28907 AU
morning rise	634 May 05 j 07:55	6°♉42'32	
desc. node	634 May 14 j 03:25	3°♉02'07	
direct	634 May 20 j 14:55	2°♉12'00	
greatest brilliancy	634 May 30 j 19:47	4°♉05'02	-4.7m
	634 Jul 06 j 08:04	0°♊	
morning max el	634 Jul 08 j 10:36	1°♊59'35	45°46'25
	634 Aug 04 j 14:02	0°♋	
	634 Aug 31 j 01:39	0°♌	
asc. node	634 Sep 04 j 07:01	4°♌56'48	
	634 Sep 25 j 06:18	0°♍	
	634 Oct 19 j 17:32	0°♎	
	634 Nov 12 j 19:33	0°♏	
	634 Dec 06 j 17:46	0°♐	
desc. node	634 Dec 24 j 20:25	22°♐44'02	
	634 Dec 30 j 15:22	0°♑	
morning set	635 Jan 08 j 06:44	10°♑50'04	
	635 Jan 23 j 13:59	0°♒	
	635 Feb 16 j 14:36	0°♓	
superior conj	635 Feb 18 j 07:31	2°♓07'26	-1°25'37
minimum elong	635 Feb 18 j 06:48	2°♓05'12	1°25'37
max. Earth dist.	635 Feb 22 j 09:17	7°♓11'46	1.72171 AU
	635 Mar 12 j 18:05	0°♈	
evening rise	635 Mar 29 j 11:58	20°♈41'53	
	635 Apr 06 j 01:13	0°♉	
asc. node	635 Apr 16 j 23:48	13°♉26'18	
	635 Apr 30 j 12:30	0°♊	
	635 May 25 j 04:18	0°♋	
	635 Jun 19 j 01:40	0°♌	
	635 Jul 14 j 07:14	0°♍	
desc. node	635 Aug 06 j 13:07	27°♍04'13	
	635 Aug 09 j 02:28	0°♎	
	635 Sep 04 j 23:45	0°♏	
evening max el	635 Sep 24 j 01:55	19°♏50'34	46°58'33
	635 Oct 04 j 18:22	0°♐	
greatest brilliancy	635 Nov 03 j 13:30	20°♐24'19	-4.9m
retrograde	635 Nov 13 j 09:35	22°♐13'40	
evening set	635 Nov 27 j 16:09	18°♐10'06	
asc. node	635 Nov 27 j 16:20	18°♐09'52	
inferior conj	635 Dec 03 j 21:38	14°♐31'08	1°36'37
minimum elong	635 Dec 03 j 18:00	14°♐36'41	1°35'27
min. Earth dist.	635 Dec 03 j 12:24	14°♐45'15	0.26387 AU
morning rise	635 Dec 09 j 20:10	11°♐02'44	
direct	635 Dec 24 j 05:49	6°♐55'50	
greatest brilliancy	636 Jan 02 j 22:53	8°♐43'42	-4.9m
	636 Feb 02 j 14:37	0°♑	
morning max el	636 Feb 12 j 09:20	9°♑23'20	46°39'10
	636 Mar 03 j 02:14	0°♒	
desc. node	636 Mar 18 j 05:58	16°♒47'53	
	636 Mar 29 j 20:43	0°♓	
	636 Apr 24 j 16:17	0°♈	
	636 May 20 j 00:29	0°♉	
	636 Jun 14 j 00:58	0°♊	
	636 Jul 08 j 18:22	0°♋	
asc. node	636 Jul 09 j 09:21	0°♋45'46	
	636 Aug 02 j 04:48	0°♌	
morning set	636 Aug 09 j 14:54	9°♌10'42	
	636 Aug 26 j 09:11	0°♍	

max. Earth dist.	636 Sep 12 j 13:26	21°♍26'57	1.71845 AU	
superior conj	636 Sep 15 j 19:56	25°♍32'30	1°19'24	
minimum elong	636 Sep 16 j 02:30	25°♍53'02	1°19'17	
	636 Sep 19 j 09:25	0°♎		
	636 Oct 13 j 07:41	0°♏		
evening rise	636 Oct 25 j 07:07	15°♏01'25		
desc. node	636 Oct 28 j 22:50	19°♏36'29		
	636 Nov 06 j 05:39	0°♐		
	636 Nov 30 j 04:23	0°♑		
	636 Dec 24 j 05:09	0°♒		
	637 Jan 17 j 10:33	0°♓		
	637 Feb 11 j 01:02	0°♈		
asc. node	637 Feb 19 j 02:00	9°♈38'59		
	637 Mar 08 j 07:47	0°♉		
	637 Apr 03 j 20:21	0°♊		
evening max el	637 Apr 28 j 17:15	25°♊41'32	45°21'27	
	637 May 03 j 06:56	0°♋		
greatest brilliancy	637 Jun 05 j 14:39	23°♋18'50	-4.7m	
desc. node	637 Jun 10 j 15:31	24°♋45'19		
retrograde	637 Jun 16 j 05:18	25°♋20'07		
evening set	637 Jul 02 j 00:03	20°♋37'27		
inferior conj	637 Jul 07 j 16:43	17°♋12'44	-5°48'17	
minimum elong	637 Jul 07 j 06:50	17°♋28'06	5°46'08	
min. Earth dist.	637 Jul 07 j 19:18	17°♋08'44	0.28859 AU	
morning rise	637 Jul 12 j 13:17	14°♋15'21		
direct	637 Jul 29 j 07:24	8°♋56'50		
greatest brilliancy	637 Aug 09 j 01:21	11°♋01'09	-4.8m	
	637 Sep 06 j 05:26	0°♌		
morning max el	637 Sep 16 j 21:50	10°♌03'27	46°19'27	
asc. node	637 Oct 01 j 18:46	25°♌28'12		
	637 Oct 05 j 22:42	0°♍		
	637 Nov 01 j 03:55	0°♎		
	637 Nov 26 j 02:43	0°♏		
	637 Dec 20 j 12:50	0°♐		
	638 Jan 13 j 18:19	0°♑		
desc. node	638 Jan 21 j 08:23	9°♑24'36		
	638 Feb 06 j 22:52	0°♒		
	638 Mar 03 j 04:07	0°♓		
morning set	638 Mar 23 j 22:59	25°♓41'05		
	638 Mar 27 j 10:56	0°♈		
	638 Apr 20 j 19:29	0°♉		
superior conj	638 Apr 30 j 10:36	11°♉50'30	-0°32'30	
minimum elong	638 Apr 30 j 17:01	12°♉10'13	0°32'13	
max. Earth dist.	638 May 01 j 07:40	12°♉55'13	1.73495 AU	
asc. node	638 May 14 j 11:41	29°♉05'44		
	638 May 15 j 05:22	0°♊		
evening rise	638 Jun 05 j 22:05	26°♊38'14		
	638 Jun 08 j 15:51	0°♋		
	638 Jul 03 j 02:39	0°♌		
	638 Jul 27 j 14:27	0°♍		
	638 Aug 21 j 04:41	0°♎		
desc. node	638 Sep 03 j 01:05	15°♎35'39		
	638 Sep 14 j 23:16	0°♏		
	638 Oct 10 j 01:05	0°♐		
	638 Nov 04 j 17:12	0°♑		
	638 Dec 01 j 22:09	0°♒		
evening max el	638 Dec 05 j 06:41	3°♒27'59	47°17'57	
asc. node	638 Dec 25 j 04:24	22°♒08'03		
	639 Jan 04 j 18:49	0°♓		
greatest brilliancy	639 Jan 14 j 20:47	5°♓15'45	-4.9m	
retrograde	639 Jan 25 j 07:25	7°♓21'29		
evening set	639 Feb 12 j 03:18	1°♓10'39		
	639 Feb 14 j 00:51	30°℞♒		
min. Earth dist.	639 Feb 14 j 15:32	29°♒36'55	0.27911 AU	
inferior conj	639 Feb 15 j 08:02	29°♒10'54	8°41'51	
minimum elong	639 Feb 15 j 06:34	29°♒13'14	8°41'50	
morning rise	639 Feb 18 j 10:02	27°♒15'41		
direct	639 Mar 08 j 03:54	21°♒11'29		
greatest brilliancy	639 Mar 17 j 06:04	22°♒43'33	-4.8m	
	639 Mar 31 j 11:12	0°♓		
desc. node	639 Apr 15 j 17:43	11°♓57'10		
morning max el	639 Apr 26 j 06:44	21°♓39'45	45°57'19	
	639 May 04 j 17:10	0°♈		
	639 Jun 01 j 20:01	0°♉		
	639 Jun 28 j 05:52	0°♊		
	639 Jul 23 j 17:58	0°♋		
asc. node	639 Aug 06 j 21:09	16°♋58'17		
	639 Aug 17 j 14:41	0°♌		
	639 Sep 10 j 23:50	0°♍		
	639 Oct 05 j 01:13	0°♎		
greatest brilliancy	639 Oct 21 j 03:47	20°♎13'02	-3.9m	
morning set	639 Oct 21 j 01:03	20°♎04'25		
	639 Oct 28 j 22:26	0°♏		
	639 Nov 21 j 18:16	0°♐		
desc. node	639 Nov 26 j 10:43	5°♐54'01		
superior conj	639 Nov 30 j 19:11	11°♐22'50	-0°10'22	
minimum elong	639 Nov 30 j 16:23	11°♐14'02	0°10'15	
behind sun begin	639 Nov 29 j 19:21	10°♐07'48		
behind sun end	639 Dec 01 j 13:25	12°♐20'15		
max. Earth dist.	639 Dec 02 j 01:27	12°♐58'07	1.71041 AU	
	639 Dec 15 j 14:21	0°♑		
	640 Jan 08 j 11:50	0°♒		
evening rise	640 Jan 11 j 11:48	3°♒45'21		
	640 Feb 01 j 12:02	0°♓		
	640 Feb 25 j 16:51	0°♈		
asc. node	640 Mar 18 j 13:57	26°♈49'31		
	640 Mar 21 j 04:33	0°♉		
	640 Apr 15 j 01:56	0°♊		
	640 May 10 j 13:10	0°♋		
	640 Jun 05 j 23:17	0°♌		
	640 Jul 04 j 10:17	0°♍		
desc. node	640 Jul 08 j 03:24	3°♍37'24		
evening max el	640 Jul 09 j 04:26	4°♍37'30	45°44'09	
	640 Aug 10 j 16:45	0°♎		
greatest brilliancy	640 Aug 17 j 23:40	3°♎04'55	-4.8m	
retrograde	640 Aug 27 j 04:27	4°♎37'06		
	640 Sep 11 j 17:03	30°℞♍		
evening set	640 Sep 13 j 17:47	28°♍50'34		
inferior conj	640 Sep 17 j 02:23	26°♍49'11	-8°15'04	
minimum elong	640 Sep 17 j 09:38	26°♍38'07	8°14'16	
min. Earth dist.	640 Sep 17 j 22:37	26°♍18'17	0.27578 AU	
morning rise	640 Sep 21 j 01:13	24°♍26'36		
direct	640 Oct 08 j 02:43	18°♍52'18		
greatest brilliancy	640 Oct 19 j 05:02	21°♍11'15	-4.9m	
asc. node	640 Oct 29 j 06:33	26°♍32'41		
	640 Nov 03 j 05:05	0°♎		
morning max el	640 Nov 27 j 22:10	22°♎21'56	46°54'54	
	640 Dec 05 j 05:37	0°♏		
	641 Jan 01 j 01:03	0°♐		
	641 Jan 26 j 12:01	0°♑		
desc. node	641 Feb 17 j 20:08	26°♑50'26		
	641 Feb 20 j 10:54	0°♒		
	641 Mar 17 j 04:55	0°♓		
	641 Apr 10 j 20:55	0°♈		
	641 May 05 j 11:46	0°♉		
	641 May 30 j 01:09	0°♊		
morning set	641 May 31 j 12:19	1°♊47'34		
asc. node	641 Jun 10 j 23:34	14°♊37'08		
	641 Jun 23 j 12:09	0°♋		
max. Earth dist.	641 Jul 03 j 23:43	12°♋54'08	1.73329 AU	

superior conj	641 Jul 06 j 19:36	16°♋23'22	0°56'08
minimum elong	641 Jul 06 j 10:59	15°♋56'46	0°55'49
	641 Jul 17 j 20:09	0°♌	
	641 Aug 11 j 01:33	0°♍	
evening rise	641 Aug 11 j 19:07	0°♍54'27	
	641 Sep 04 j 05:37	0°♎	
	641 Sep 28 j 09:44	0°♏	
desc. node	641 Sep 30 j 13:00	2°♏38'55	
	641 Oct 22 j 15:05	0°♐	
	641 Nov 15 j 23:06	0°♑	
	641 Dec 10 j 13:11	0°♒	
	642 Jan 04 j 17:16	0°♓	
asc. node	642 Jan 21 j 16:07	19°♓26'32	
	642 Jan 31 j 06:16	0°♈	
evening max el	642 Feb 14 j 18:34	15°♈06'21	46°15'03
	642 Mar 02 j 22:20	0°♉	
greatest brilliancy	642 Mar 25 j 11:59	14°♉25'56	-4.8m
retrograde	642 Apr 05 j 08:53	16°♉35'25	
evening set	642 Apr 21 j 03:45	11°♉43'47	
inferior conj	642 Apr 26 j 17:47	8°♉18'53	3°44'56
minimum elong	642 Apr 27 j 01:14	8°♉07'08	3°42'58
min. Earth dist.	642 Apr 26 j 20:48	8°♉14'07	0.28894 AU
morning rise	642 May 02 j 23:02	4°♉33'27	
desc. node	642 May 13 j 05:34	0°♉32'26	
direct	642 May 18 j 07:22	0°♉01'54	
greatest brilliancy	642 May 28 j 10:37	1°♉53'31	-4.7m
morning max el	642 Jul 06 j 01:59	29°♉47'45	45°45'50
	642 Jul 06 j 07:07	0°♊	
	642 Aug 04 j 06:01	0°♋	
	642 Aug 30 j 15:17	0°♌	
asc. node	642 Sep 03 j 09:00	4°♌23'17	
	642 Sep 24 j 18:51	0°♍	
	642 Oct 19 j 05:31	0°♎	
	642 Nov 12 j 07:12	0°♏	
	642 Dec 06 j 05:13	0°♐	
desc. node	642 Dec 23 j 22:33	22°♐15'08	
	642 Dec 30 j 02:40	0°♑	
morning set	643 Jan 05 j 16:52	8°♑16'07	
	643 Jan 23 j 01:11	0°♒	
superior conj	643 Feb 15 j 20:12	29°♒42'51	-1°25'26
minimum elong	643 Feb 15 j 18:31	29°♒37'38	1°25'26
	643 Feb 16 j 01:42	0°♓	
max. Earth dist.	643 Feb 20 j 01:12	4°♓57'21	1.72116 AU
	643 Mar 12 j 05:08	0°♈	
evening rise	643 Mar 27 j 02:59	18°♈25'56	
	643 Apr 05 j 12:19	0°♉	
asc. node	643 Apr 16 j 01:55	12°♉58'36	
	643 Apr 29 j 23:45	0°♊	
	643 May 24 j 15:53	0°♋	
	643 Jun 18 j 13:49	0°♌	
	643 Jul 13 j 20:23	0°♍	
desc. node	643 Aug 05 j 15:06	26°♍27'52	
	643 Aug 08 j 17:23	0°♎	
	643 Sep 04 j 18:23	0°♏	
evening max el	643 Sep 21 j 14:39	17°♏24'04	46°56'16
	643 Oct 05 j 01:14	0°♐	
greatest brilliancy	643 Nov 01 j 03:44	17°♐56'03	-4.9m
retrograde	643 Nov 10 j 21:17	19°♐43'14	
evening set	643 Nov 25 j 04:23	15°♐40'17	
asc. node	643 Nov 26 j 18:31	14°♐47'50	
inferior conj	643 Dec 01 j 09:51	12°♐01'44	1°12'20
minimum elong	643 Dec 01 j 07:06	12°♐05'56	1°11'26
min. Earth dist.	643 Dec 01 j 02:35	12°♐12'51	0.26369 AU
morning rise	643 Dec 07 j 09:59	8°♐30'58	
direct	643 Dec 21 j 17:25	4°♐26'30	
greatest brilliancy	643 Dec 31 j 13:17	6°♐16'25	-4.9m
	644 Feb 02 j 18:18	0°♑	
morning max el	644 Feb 09 j 21:18	6°♑55'23	46°40'38
	644 Mar 02 j 19:54	0°♒	
desc. node	644 Mar 17 j 08:06	16°♒09'58	
	644 Mar 29 j 11:09	0°♓	
	644 Apr 24 j 05:10	0°♈	
	644 May 19 j 12:30	0°♉	
	644 Jun 13 j 12:28	0°♊	
asc. node	644 Jul 08 j 11:22	0°♋17'43	
	644 Jul 08 j 05:34	0°♋	
	644 Aug 01 j 15:51	0°♌	
morning set	644 Aug 07 j 07:36	6°♌59'41	
	644 Aug 25 j 20:11	0°♍	
max. Earth dist.	644 Sep 10 j 03:42	19°♍06'57	1.71900 AU
superior conj	644 Sep 13 j 10:52	23°♍14'28	1°20'33
minimum elong	644 Sep 13 j 16:45	23°♍32'53	1°20'28
	644 Sep 18 j 20:28	0°♎	
	644 Oct 12 j 18:53	0°♏	
evening rise	644 Oct 22 j 18:30	12°♏31'19	
desc. node	644 Oct 28 j 01:00	19°♏07'54	
	644 Nov 05 j 17:00	0°♐	
	644 Nov 29 j 15:52	0°♑	
	644 Dec 23 j 16:49	0°♒	
	645 Jan 16 j 22:29	0°♓	
	645 Feb 10 j 13:31	0°♈	
asc. node	645 Feb 18 j 04:04	9°♈07'10	
	645 Mar 07 j 21:25	0°♉	
	645 Apr 03 j 12:38	0°♊	
evening max el	645 Apr 26 j 08:15	23°♊28'50	45°22'03
	645 May 03 j 07:59	0°♋	
greatest brilliancy	645 Jun 03 j 05:17	21°♋07'44	-4.7m
desc. node	645 Jun 09 j 17:36	22°♋51'00	
retrograde	645 Jun 13 j 21:24	23°♋10'37	
evening set	645 Jun 29 j 13:36	18°♋30'35	
inferior conj	645 Jul 05 j 08:48	15°♋02'34	-5°33'00
minimum elong	645 Jul 04 j 23:02	15°♋17'44	5°30'49
min. Earth dist.	645 Jul 05 j 11:10	14°♋58'54	0.28880 AU
morning rise	645 Jul 10 j 08:07	12°♋01'21	
direct	645 Jul 26 j 23:18	6°♋46'09	
greatest brilliancy	645 Aug 06 j 17:50	8°♋50'56	-4.8m
	645 Sep 06 j 08:14	0°♌	
morning max el	645 Sep 14 j 13:24	7°♌48'49	46°17'58
asc. node	645 Sep 30 j 20:57	24°♌45'51	
	645 Oct 05 j 15:44	0°♍	
	645 Oct 31 j 18:08	0°♎	
	645 Nov 25 j 15:41	0°♏	
	645 Dec 20 j 01:07	0°♐	
	646 Jan 13 j 06:09	0°♑	
desc. node	646 Jan 20 j 10:19	8°♑54'14	
	646 Feb 06 j 10:19	0°♒	
	646 Mar 02 j 15:17	0°♓	
morning set	646 Mar 21 j 14:22	23°♓26'28	
	646 Mar 26 j 21:52	0°♈	
	646 Apr 20 j 06:17	0°♉	
superior conj	646 Apr 28 j 04:09	9°♉43'50	-0°35'27
minimum elong	646 Apr 28 j 11:05	10°♉05'10	0°35'09
max. Earth dist.	646 Apr 29 j 04:02	10°♉57'16	1.73472 AU
asc. node	646 May 13 j 13:51	28°♉39'19	
	646 May 14 j 16:07	0°♊	
evening rise	646 Jun 03 j 17:18	24°♊36'47	
	646 Jun 08 j 02:41	0°♋	
	646 Jul 02 j 13:42	0°♌	
	646 Jul 27 j 01:51	0°♍	
	646 Aug 20 j 16:38	0°♎	
desc. node	646 Sep 02 j 03:09	15°♎04'43	

	646 Sep 14 j 12:00	0°♏		
	646 Oct 09 j 15:01	0°♐		
	646 Nov 04 j 09:19	0°♑		
	646 Dec 01 j 19:39	0°♒		
evening max el	646 Dec 02 j 21:43	1°♒06'50	47°19'02	
asc. node	646 Dec 24 j 06:22	20°♒58'23		
	647 Jan 06 j 07:42	0°♓		
greatest brilliancy	647 Jan 12 j 11:28	2°♓54'31	-4.9m	
retrograde	647 Jan 22 j 23:06	5°♓01'09		
	647 Feb 07 j 19:17	30°℞♒		
evening set	647 Feb 09 j 16:27	28°♒52'50		
min. Earth dist.	647 Feb 12 j 04:58	27°♒18'52	0.27850 AU	
inferior conj	647 Feb 12 j 22:39	26°♒51'03	8°40'23	
minimum elong	647 Feb 12 j 20:20	26°♒54'42	8°40'19	
morning rise	647 Feb 16 j 00:27	24°♒56'25		
direct	647 Mar 05 j 17:58	18°♒52'36		
greatest brilliancy	647 Mar 14 j 18:58	20°♒24'10	-4.8m	
	647 Apr 01 j 08:16	0°♓		
desc. node	647 Apr 14 j 19:49	10°♓59'42		
morning max el	647 Apr 23 j 22:26	19°♓27'09	45°58'37	
	647 May 04 j 12:48	0°♈		
	647 Jun 01 j 10:50	0°♉		
	647 Jun 27 j 18:43	0°♊		
	647 Jul 23 j 05:51	0°♋		
asc. node	647 Aug 05 j 23:12	16°♋29'30		
	647 Aug 17 j 02:04	0°♌		
	647 Sep 10 j 11:00	0°♍		
	647 Oct 04 j 12:16	0°♎		
morning set	647 Oct 18 j 13:52	17°♎39'14		
	647 Oct 28 j 09:28	0°♏		
	647 Nov 21 j 05:17	0°♐		
desc. node	647 Nov 25 j 12:47	5°♐25'48		
superior conj	647 Nov 28 j 04:42	8°♐46'59	-0°06'23	
minimum elong	647 Nov 28 j 02:59	8°♐41'33	0°06'18	
behind sun begin	647 Nov 27 j 02:11	7°♐23'31		
behind sun end	647 Nov 29 j 03:47	9°♐59'36		
max. Earth dist.	647 Nov 29 j 10:25	10°♐20'30	1.71036 AU	
	647 Dec 15 j 01:23	0°♑		
	648 Jan 07 j 22:54	0°♒		
evening rise	648 Jan 08 j 21:56	1°♒12'10		
	648 Jan 31 j 23:10	0°♓		
	648 Feb 25 j 04:06	0°♈		
asc. node	648 Mar 17 j 16:08	26°♈21'16		
	648 Mar 20 j 16:03	0°♉		
	648 Apr 14 j 13:57	0°♊		
	648 May 10 j 02:15	0°♋		
	648 Jun 05 j 14:40	0°♌		
	648 Jul 04 j 07:55	0°♍		
evening max el	648 Jul 06 j 19:21	2°♍23'20	45°42'03	
desc. node	648 Jul 07 j 05:20	2°♍47'08		
	648 Aug 13 j 08:51	0°♎		
greatest brilliancy	648 Aug 15 j 11:54	0°♎44'59	-4.8m	
retrograde	648 Aug 24 j 17:33	2°♎17'25		
	648 Sep 04 j 12:31	30°℞♍		
evening set	648 Sep 11 j 09:29	26°♍27'38		
inferior conj	648 Sep 14 j 16:05	24°♍28'51	-8°22'09	
minimum elong	648 Sep 14 j 22:38	24°♍18'50	8°21'31	
min. Earth dist.	648 Sep 15 j 11:50	23°♍58'37	0.27645 AU	
morning rise	648 Sep 18 j 11:32	22°♍10'52		
direct	648 Oct 05 j 17:34	16°♍31'10		
greatest brilliancy	648 Oct 16 j 19:00	18°♍48'57	-4.9m	
asc. node	648 Oct 28 j 08:40	25°♍10'13		
	648 Nov 03 j 21:18	0°♎		
morning max el	648 Nov 25 j 12:17	19°♎58'20	46°54'16	
	648 Dec 05 j 01:21	0°♏		
	648 Dec 31 j 16:26	0°♐		
	649 Jan 26 j 01:30	0°♑		
desc. node	649 Feb 16 j 22:18	26°♑19'05		
	649 Feb 19 j 23:20	0°♒		
	649 Mar 16 j 16:40	0°♓		
	649 Apr 10 j 08:11	0°♈		
	649 May 04 j 22:42	0°♉		
morning set	649 May 29 j 06:52	29°♉44'45		
	649 May 29 j 11:51	0°♊		
asc. node	649 Jun 10 j 01:36	14°♊10'44		
	649 Jun 22 j 22:44	0°♋		
max. Earth dist.	649 Jul 01 j 19:33	10°♋54'48	1.73358 AU	
superior conj	649 Jul 04 j 14:23	14°♋20'39	0°53'47	
minimum elong	649 Jul 04 j 05:52	13°♋54'27	0°53'27	
	649 Jul 17 j 06:46	0°♌		
evening rise	649 Aug 09 j 12:46	28°♌47'01		
	649 Aug 10 j 12:18	0°♍		
	649 Sep 03 j 16:35	0°♎		
	649 Sep 27 j 21:02	0°♏		
desc. node	649 Sep 29 j 15:11	2°♏10'34		
	649 Oct 22 j 02:47	0°♐		
	649 Nov 15 j 11:20	0°♑		
	649 Dec 10 j 02:12	0°♒		
	650 Jan 04 j 07:42	0°♓		
asc. node	650 Jan 20 j 18:12	18°♓47'07		
	650 Jan 31 j 00:06	0°♈		
evening max el	650 Feb 12 j 09:37	12°♈50'44	46°17'34	
	650 Mar 03 j 06:45	0°♉		
greatest brilliancy	650 Mar 23 j 05:50	12°♉17'49	-4.8m	
retrograde	650 Apr 03 j 01:05	14°♉26'00		
evening set	650 Apr 18 j 22:33	9°♉31'23		
inferior conj	650 Apr 24 j 10:16	6°♉09'35	4°02'41	
minimum elong	650 Apr 24 j 18:08	5°♉57'08	4°00'39	
min. Earth dist.	650 Apr 24 j 13:23	6°♉04'40	0.28877 AU	
morning rise	650 Apr 30 j 14:00	2°♉25'47		
	650 May 05 j 14:26	30°℞♈		
desc. node	650 May 12 j 07:40	28°♈08'40		
direct	650 May 15 j 23:19	27°♈52'59		
greatest brilliancy	650 May 26 j 01:59	29°♈43'41	-4.7m	
	650 May 26 j 20:05	0°♉		
morning max el	650 Jul 03 j 17:03	27°♉36'21	45°45'32	
	650 Jul 06 j 04:45	0°♊		
	650 Aug 03 j 21:17	0°♋		
	650 Aug 30 j 04:19	0°♌		
asc. node	650 Sep 02 j 11:14	3°♌51'58		
	650 Sep 24 j 06:53	0°♍		
	650 Oct 18 j 17:04	0°♎		
	650 Nov 11 j 18:30	0°♏		
	650 Dec 05 j 16:22	0°♐		
desc. node	650 Dec 23 j 00:32	21°♐46'34		
	650 Dec 29 j 13:44	0°♑		
morning set	651 Jan 03 j 02:26	5°♑41'01		
	651 Jan 22 j 12:08	0°♒		
superior conj	651 Feb 13 j 08:20	27°♒17'20	-1°25'06	
minimum elong	651 Feb 13 j 05:41	27°♒09'02	1°25'04	
	651 Feb 15 j 12:33	0°♓		
max. Earth dist.	651 Feb 17 j 14:04	2°♓34'16	1.72056 AU	
	651 Mar 11 j 15:55	0°♈		
evening rise	651 Mar 24 j 17:34	16°♈09'33		
	651 Apr 04 j 23:08	0°♉		
asc. node	651 Apr 15 j 04:02	12°♉31'49		
	651 Apr 29 j 10:43	0°♊		
	651 May 24 j 03:09	0°♋		
	651 Jun 18 j 01:39	0°♌		
	651 Jul 13 j 09:11	0°♍		
desc. node	651 Aug 04 j 17:16	25°♍53'08		

	651 Aug 08 j 07:59	0°♎	
	651 Sep 04 j 12:55	0°♏	
evening max el	651 Sep 19 j 02:52	14°♏58'06	46°53'57
	651 Oct 05 j 09:50	0°♐	
greatest brilliancy	651 Oct 29 j 17:38	15°♐28'50	-4.9m
retrograde	651 Nov 08 j 09:02	17°♐14'25	
evening set	651 Nov 22 j 16:49	13°♐11'12	
asc. node	651 Nov 25 j 20:30	11°♐24'36	
inferior conj	651 Nov 28 j 22:05	9°♐33'32	0°47'52
minimum elong	651 Nov 28 j 20:16	9°♐36'19	0°47'16
min. Earth dist.	651 Nov 28 j 16:45	9°♐41'40	0.26367 AU
morning rise	651 Dec 04 j 23:43	6°♐00'45	
direct	651 Dec 19 j 05:05	1°♐57'52	
greatest brilliancy	651 Dec 29 j 04:01	3°♐50'19	-4.9m
	652 Feb 02 j 20:13	0°♑	
morning max el	652 Feb 07 j 10:16	4°♑30'12	46°41'59
	652 Mar 02 j 13:03	0°♒	
desc. node	652 Mar 16 j 10:14	15°♒32'47	
	652 Mar 29 j 01:16	0°♓	
	652 Apr 23 j 17:45	0°♈	
	652 May 19 j 00:13	0°♉	
	652 Jun 12 j 23:39	0°♊	
asc. node	652 Jul 07 j 13:25	29°♊50'43	
	652 Jul 07 j 16:27	0°♋	
	652 Aug 01 j 02:34	0°♌	
morning set	652 Aug 05 j 00:36	4°♌50'37	
	652 Aug 25 j 06:51	0°♍	
max. Earth dist.	652 Sep 07 j 19:38	16°♍53'15	1.71950 AU
superior conj	652 Sep 11 j 02:18	20°♍59'08	1°21'32
minimum elong	652 Sep 11 j 07:30	21°♍15'23	1°21'29
	652 Sep 18 j 07:12	0°♎	
	652 Oct 12 j 05:43	0°♏	
evening rise	652 Oct 20 j 06:32	10°♏04'26	
desc. node	652 Oct 27 j 03:02	18°♏40'02	
	652 Nov 05 j 04:00	0°♐	
	652 Nov 29 j 03:03	0°♑	
	652 Dec 23 j 04:13	0°♒	
	653 Jan 16 j 10:15	0°♓	
	653 Feb 10 j 01:55	0°♈	
asc. node	653 Feb 17 j 06:14	8°♈35'51	
	653 Mar 07 j 11:03	0°♉	
	653 Apr 03 j 05:06	0°♊	
evening max el	653 Apr 24 j 00:00	21°♊18'21	45°22'57
	653 May 03 j 10:14	0°♋	
greatest brilliancy	653 May 31 j 19:32	18°♋56'47	-4.7m
desc. node	653 Jun 08 j 19:33	20°♋52'48	
retrograde	653 Jun 11 j 13:47	21°♋01'32	
evening set	653 Jun 27 j 03:20	16°♋23'59	
inferior conj	653 Jul 03 j 00:47	12°♋52'48	-5°17'22
minimum elong	653 Jul 02 j 15:13	13°♋07'39	5°15'08
min. Earth dist.	653 Jul 03 j 02:40	12°♋49'52	0.28896 AU
morning rise	653 Jul 08 j 02:50	9°♋47'55	
direct	653 Jul 24 j 15:41	4°♋36'00	
greatest brilliancy	653 Aug 04 j 09:39	6°♋40'40	-4.8m
	653 Sep 06 j 09:19	0°♌	
morning max el	653 Sep 12 j 05:46	5°♌37'11	46°16'35
asc. node	653 Sep 29 j 22:58	24°♌04'22	
	653 Oct 05 j 08:09	0°♍	
	653 Oct 31 j 07:55	0°♎	
	653 Nov 25 j 04:17	0°♏	
	653 Dec 19 j 13:03	0°♐	
	654 Jan 12 j 17:39	0°♑	
desc. node	654 Jan 19 j 12:27	8°♑25'25	
	654 Feb 05 j 21:32	0°♒	
	654 Mar 02 j 02:18	0°♓	
morning set	654 Mar 19 j 05:15	21°♓10'33	
	654 Mar 26 j 08:44	0°♈	
	654 Apr 19 j 17:02	0°♉	
superior conj	654 Apr 25 j 21:06	7°♉35'25	-0°38'25
minimum elong	654 Apr 26 j 04:31	7°♉58'15	0°38'05
max. Earth dist.	654 Apr 27 j 00:42	9°♉00'17	1.73447 AU
asc. node	654 May 12 j 15:48	28°♉12'30	
	654 May 14 j 02:49	0°♊	
evening rise	654 Jun 01 j 12:02	22°♊34'03	
	654 Jun 07 j 13:26	0°♋	
	654 Jul 02 j 00:40	0°♌	
	654 Jul 26 j 13:12	0°♍	
	654 Aug 20 j 04:32	0°♎	
desc. node	654 Sep 01 j 05:17	14°♎34'13	
	654 Sep 14 j 00:42	0°♏	
	654 Oct 09 j 04:56	0°♐	
	654 Nov 04 j 01:30	0°♑	
evening max el	654 Nov 30 j 13:39	28°♑48'41	47°20'02
	654 Dec 01 j 17:41	0°♒	
asc. node	654 Dec 23 j 08:26	19°♒47'37	
	655 Jan 08 j 16:41	0°♓	
greatest brilliancy	655 Jan 10 j 01:58	0°♓33'43	-4.9m
retrograde	655 Jan 20 j 14:45	2°♓41'05	
	655 Jan 31 j 23:20	30°℞♒	
evening set	655 Feb 07 j 05:15	26°♒35'59	
min. Earth dist.	655 Feb 09 j 18:17	25°♒01'18	0.27793 AU
inferior conj	655 Feb 10 j 13:15	24°♒31'30	8°38'01
minimum elong	655 Feb 10 j 10:08	24°♒36'23	8°37'52
morning rise	655 Feb 13 j 15:18	22°♒36'41	
direct	655 Mar 03 j 08:30	16°♒34'08	
greatest brilliancy	655 Mar 12 j 07:37	18°♒04'39	-4.8m
	655 Apr 01 j 23:52	0°♓	
desc. node	655 Apr 13 j 21:53	10°♓03'21	
morning max el	655 Apr 21 j 13:59	17°♓14'02	45°59'39
	655 May 04 j 07:56	0°♈	
	655 Jun 01 j 01:34	0°♉	
	655 Jun 27 j 07:36	0°♊	
	655 Jul 22 j 17:45	0°♋	
asc. node	655 Aug 05 j 01:23	16°♋01'01	
	655 Aug 16 j 13:28	0°♌	
	655 Sep 09 j 22:08	0°♍	
	655 Oct 03 j 23:19	0°♎	
morning set	655 Oct 16 j 02:45	15°♎14'18	
	655 Oct 27 j 20:30	0°♏	
	655 Nov 20 j 16:19	0°♐	
desc. node	655 Nov 24 j 14:47	4°♐57'20	
superior conj	655 Nov 25 j 14:32	6°♐12'05	-0°02'23
minimum elong	655 Nov 25 j 13:53	6°♐10'01	0°02'21
behind sun begin	655 Nov 24 j 11:33	4°♐47'10	
behind sun end	655 Nov 26 j 16:12	7°♐32'53	
max. Earth dist.	655 Nov 26 j 17:24	7°♐36'39	1.71029 AU
	655 Dec 14 j 12:25	0°♑	
evening rise	656 Jan 06 j 08:18	28°♑39'35	
	656 Jan 07 j 09:58	0°♒	
	656 Jan 31 j 10:17	0°♓	
	656 Feb 24 j 15:20	0°♈	
asc. node	656 Mar 16 j 18:10	25°♈52'34	
	656 Mar 20 j 03:35	0°♉	
	656 Apr 14 j 02:06	0°♊	
	656 May 09 j 15:36	0°♋	
	656 Jun 05 j 06:31	0°♌	
	656 Jul 04 j 06:42	0°♍	
evening max el	656 Jul 04 j 09:37	0°♍07'00	45°40'04
desc. node	656 Jul 06 j 07:32	1°♍55'53	
greatest brilliancy	656 Aug 13 j 00:42	28°♍25'16	-4.8m
retrograde	656 Aug 22 j 06:11	29°♍57'29	

evening set	656 Sep 09 j 00:57	24°♍04'54	
inferior conj	656 Sep 12 j 05:50	22°♍08'26	-8°28'25
minimum elong	656 Sep 12 j 11:37	21°♍59'34	8°27'55
min. Earth dist.	656 Sep 13 j 01:22	21°♍38'29	0.27708 AU
morning rise	656 Sep 15 j 22:04	19°♍54'50	
direct	656 Oct 03 j 07:55	14°♍09'52	
greatest brilliancy	656 Oct 14 j 09:28	16°♍27'06	-4.9m
asc. node	656 Oct 27 j 10:43	23°♍49'53	
	656 Nov 04 j 09:34	0°♎	
morning max el	656 Nov 23 j 01:28	17°♎32'01	46°53'36
	656 Dec 04 j 20:38	0°♏	
	656 Dec 31 j 07:42	0°♐	
	657 Jan 25 j 14:59	0°♑	
desc. node	657 Feb 16 j 00:24	25°♑47'21	
	657 Feb 19 j 11:48	0°♒	
	657 Mar 16 j 04:29	0°♓	
	657 Apr 09 j 19:32	0°♈	
	657 May 04 j 09:45	0°♉	
morning set	657 May 27 j 01:14	27°♉40'48	
	657 May 28 j 22:44	0°♊	
asc. node	657 Jun 09 j 03:41	13°♊43'52	
	657 Jun 22 j 09:34	0°♋	
max. Earth dist.	657 Jun 29 j 13:58	8°♋50'22	1.73391 AU
superior conj	657 Jul 02 j 08:53	12°♋16'26	0°51'20
minimum elong	657 Jul 02 j 00:32	11°♋50'45	0°50'59
	657 Jul 16 j 17:38	0°♌	
evening rise	657 Aug 07 j 06:08	26°♌38'02	
	657 Aug 09 j 23:18	0°♍	
	657 Sep 03 j 03:48	0°♎	
	657 Sep 27 j 08:33	0°♏	
desc. node	657 Sep 28 j 17:09	1°♏40'55	
	657 Oct 21 j 14:44	0°♐	
	657 Nov 14 j 23:50	0°♑	
	657 Dec 09 j 15:31	0°♒	
	658 Jan 03 j 22:31	0°♓	
asc. node	658 Jan 19 j 20:24	18°♓06'58	
	658 Jan 30 j 18:36	0°♈	
evening max el	658 Feb 09 j 23:55	10°♈32'31	46°20'12
	658 Mar 03 j 18:29	0°♉	
greatest brilliancy	658 Mar 20 j 23:33	10°♉08'57	-4.8m
retrograde	658 Mar 31 j 17:16	12°♉16'17	
evening set	658 Apr 16 j 17:26	7°♉18'17	
inferior conj	658 Apr 22 j 02:48	3°♉59'56	4°20'01
minimum elong	658 Apr 22 j 11:04	3°♉46'51	4°17'55
min. Earth dist.	658 Apr 22 j 06:10	3°♉54'37	0.28863 AU
morning rise	658 Apr 28 j 04:54	0°♉18'02	
	658 Apr 28 j 17:59	30°♈R	
desc. node	658 May 11 j 09:37	25°♈49'14	
direct	658 May 13 j 14:54	25°♈43'28	
greatest brilliancy	658 May 23 j 17:54	27°♈33'59	-4.7m
	658 May 29 j 10:24	0°♉	
morning max el	658 Jul 01 j 08:11	25°♉24'16	45°45'07
	658 Jul 06 j 01:55	0°♊	
	658 Aug 03 j 12:42	0°♋	
	658 Aug 29 j 17:40	0°♌	
asc. node	658 Sep 01 j 13:14	3°♌18'59	
	658 Sep 23 j 19:15	0°♍	
	658 Oct 18 j 04:54	0°♎	
	658 Nov 11 j 06:04	0°♏	
	658 Dec 05 j 03:47	0°♐	
desc. node	658 Dec 22 j 02:39	21°♐17'37	
	658 Dec 29 j 01:03	0°♑	
morning set	658 Dec 31 j 11:52	3°♑04'37	
	659 Jan 21 j 23:21	0°♒	
superior conj	659 Feb 10 j 20:25	24°♒50'40	-1°24'35
minimum elong	659 Feb 10 j 16:46	24°♒39'16	1°24'33
	659 Feb 14 j 23:40	0°♓	
max. Earth dist.	659 Feb 14 j 23:58	0°♓00'58	1.71997 AU
	659 Mar 11 j 02:59	0°♈	
evening rise	659 Mar 22 j 08:08	13°♈52'10	
	659 Apr 04 j 10:13	0°♉	
asc. node	659 Apr 14 j 06:02	12°♉03'54	
	659 Apr 28 j 21:57	0°♊	
	659 May 23 j 14:43	0°♋	
	659 Jun 17 j 13:50	0°♌	
	659 Jul 12 j 22:27	0°♍	
desc. node	659 Aug 03 j 19:20	25°♍16'33	
	659 Aug 07 j 23:16	0°♎	
	659 Sep 04 j 08:33	0°♏	
evening max el	659 Sep 16 j 15:20	12°♏31'26	46°51'38
	659 Oct 05 j 22:15	0°♐	
greatest brilliancy	659 Oct 27 j 06:55	12°♐59'19	-4.9m
retrograde	659 Nov 05 j 21:04	14°♐44'02	
evening set	659 Nov 20 j 05:18	10°♐39'59	
asc. node	659 Nov 24 j 22:35	7°♐57'29	
inferior conj	659 Nov 26 j 10:08	7°♐03'33	0°23'08
minimum elong	659 Nov 26 j 09:14	7°♐04'54	0°22'50
min. Earth dist.	659 Nov 26 j 06:30	7°♐09'05	0.26364 AU
morning rise	659 Dec 02 j 13:06	3°♐29'18	
	659 Dec 11 j 14:25	30°♑R	
direct	659 Dec 16 j 17:03	29°♏27'29	
	659 Dec 21 j 22:52	0°♐	
greatest brilliancy	659 Dec 26 j 18:12	1°♐22'20	-4.9m
	660 Feb 02 j 21:13	0°♑	
morning max el	660 Feb 05 j 00:00	2°♑05'56	46°43'19
	660 Mar 02 j 06:10	0°♒	
desc. node	660 Mar 15 j 12:12	14°♒54'34	
	660 Mar 28 j 15:32	0°♓	
	660 Apr 23 j 06:35	0°♈	
	660 May 18 j 12:12	0°♉	
	660 Jun 12 j 11:07	0°♊	
asc. node	660 Jul 06 j 15:37	29°♊23'21	
	660 Jul 07 j 03:37	0°♋	
	660 Jul 31 j 13:35	0°♌	
morning set	660 Aug 02 j 17:44	2°♌41'04	
	660 Aug 24 j 17:53	0°♍	
max. Earth dist.	660 Sep 05 j 11:10	14°♍37'09	1.72006 AU
superior conj	660 Sep 08 j 17:40	18°♍42'24	1°22'25
minimum elong	660 Sep 08 j 22:08	18°♍56'23	1°22'21
	660 Sep 17 j 18:20	0°♎	
	660 Oct 11 j 17:01	0°♏	
evening rise	660 Oct 17 j 18:15	7°♏35'15	
desc. node	660 Oct 26 j 05:05	18°♏10'50	
	660 Nov 04 j 15:26	0°♐	
	660 Nov 28 j 14:38	0°♑	
	660 Dec 22 j 16:01	0°♒	
	661 Jan 15 j 22:24	0°♓	
	661 Feb 09 j 14:43	0°♈	
asc. node	661 Feb 16 j 08:14	8°♈02'57	
	661 Mar 07 j 01:07	0°♉	
	661 Apr 02 j 22:12	0°♊	
evening max el	661 Apr 21 j 16:39	19°♊09'13	45°23'55
	661 May 03 j 14:27	0°♋	
greatest brilliancy	661 May 29 j 10:14	16°♋45'59	-4.7m
desc. node	661 Jun 07 j 21:45	18°♋49'59	
retrograde	661 Jun 09 j 06:23	18°♋52'07	
evening set	661 Jun 24 j 17:28	14°♋17'11	
inferior conj	661 Jun 30 j 16:58	10°♋42'49	-5°01'17
minimum elong	661 Jun 30 j 07:39	10°♋57'17	4°59'03
min. Earth dist.	661 Jun 30 j 18:12	10°♋40'53	0.28910 AU
morning rise	661 Jul 05 j 21:39	7°♋34'18	

direct	661 Jul 22 j 08:36	2°♋25'57	
greatest brilliancy	661 Aug 02 j 01:01	4°♋29'38	-4.8m
	661 Sep 06 j 09:29	0°♌	
morning max el	661 Sep 09 j 22:01	3°♌24'45	46°14'55
asc. node	661 Sep 29 j 01:02	23°♌22'34	
	661 Oct 05 j 00:37	0°♍	
	661 Oct 30 j 21:59	0°♎	
	661 Nov 24 j 17:14	0°♏	
	661 Dec 19 j 01:23	0°♐	
	662 Jan 12 j 05:32	0°♑	
desc. node	662 Jan 18 j 14:37	7°♑55'28	
	662 Feb 05 j 09:05	0°♒	
	662 Mar 01 j 13:36	0°♓	
morning set	662 Mar 16 j 20:00	18°♓53'20	
	662 Mar 25 j 19:50	0°♈	
	662 Apr 19 j 04:01	0°♉	
superior conj	662 Apr 23 j 14:04	5°♉26'13	-0°41'19
minimum elong	662 Apr 23 j 21:56	5°♉50'25	0°40'59
max. Earth dist.	662 Apr 24 j 22:59	7°♉07'27	1.73419 AU
asc. node	662 May 11 j 17:56	27°♉45'28	
	662 May 13 j 13:46	0°♊	
evening rise	662 May 30 j 06:55	20°♊31'04	
	662 Jun 07 j 00:27	0°♋	
	662 Jul 01 j 11:53	0°♌	
	662 Jul 26 j 00:46	0°♍	
	662 Aug 19 j 16:40	0°♎	
desc. node	662 Aug 31 j 07:17	14°♎02'35	
	662 Sep 13 j 13:41	0°♏	
	662 Oct 08 j 19:16	0°♐	
	662 Nov 03 j 18:21	0°♑	
evening max el	662 Nov 28 j 05:41	26°♑29'16	47°20'40
	662 Dec 01 j 17:11	0°♒	
asc. node	662 Dec 22 j 10:37	18°♒33'19	
greatest brilliancy	663 Jan 07 j 16:46	28°♒11'19	-4.9m
	663 Jan 14 j 07:44	0°♓	
retrograde	663 Jan 18 j 05:53	0°♓18'34	
	663 Jan 22 j 02:10	30°℞♒	
evening set	663 Feb 04 j 17:25	24°♒17'41	
min. Earth dist.	663 Feb 07 j 07:35	22°♒41'15	0.27727 AU
inferior conj	663 Feb 08 j 03:33	22°♒09'52	8°34'42
minimum elong	663 Feb 07 j 23:39	22°♒16'01	8°34'29
morning rise	663 Feb 11 j 06:11	20°♒14'13	
direct	663 Feb 28 j 22:42	14°♒13'54	
greatest brilliancy	663 Mar 09 j 20:09	15°♒43'16	-4.8m
	663 Apr 02 j 11:59	0°♓	
desc. node	663 Apr 12 j 23:58	9°♓07'23	
morning max el	663 Apr 19 j 04:29	14°♓57'32	46°00'50
	663 May 04 j 02:46	0°♈	
	663 May 31 j 16:16	0°♉	
	663 Jun 26 j 20:30	0°♊	
	663 Jul 22 j 05:44	0°♋	
asc. node	663 Aug 04 j 03:22	15°♋31'38	
	663 Aug 16 j 00:56	0°♌	
	663 Sep 09 j 09:21	0°♍	
	663 Oct 03 j 10:27	0°♎	
morning set	663 Oct 13 j 16:05	12°♎50'32	
	663 Oct 27 j 07:37	0°♏	
	663 Nov 20 j 03:28	0°♐	
superior conj	663 Nov 23 j 00:33	3°♐37'27	0°01'39
minimum elong	663 Nov 23 j 00:59	3°♐38'48	0°01'38
behind sun begin	663 Nov 21 j 22:39	2°♐15'54	
behind sun end	663 Nov 24 j 03:20	5°♐01'42	
desc. node	663 Nov 23 j 16:57	4°♐29'04	
max. Earth dist.	663 Nov 23 j 21:46	4°♐44'13	1.71032 AU
	663 Dec 13 j 23:38	0°♑	
evening rise	664 Jan 03 j 18:16	26°♑05'08	
	664 Jan 06 j 21:13	0°♒	
	664 Jan 30 j 21:36	0°♓	
	664 Feb 24 j 02:46	0°♈	
asc. node	664 Mar 15 j 20:11	25°♈23'13	
	664 Mar 19 j 15:18	0°♉	
	664 Apr 13 j 14:25	0°♊	
	664 May 09 j 05:08	0°♋	
	664 Jun 04 j 22:41	0°♌	
evening max el	664 Jul 01 j 23:12	27°♌49'06	45°38'12
	664 Jul 04 j 06:28	0°♍	
desc. node	664 Jul 05 j 09:36	1°♍03'20	
greatest brilliancy	664 Aug 10 j 13:54	26°♍06'37	-4.8m
retrograde	664 Aug 19 j 18:58	27°♍38'48	
evening set	664 Sep 06 j 16:22	21°♍43'38	
inferior conj	664 Sep 09 j 19:53	19°♍49'11	-8°33'40
minimum elong	664 Sep 10 j 00:53	19°♍41'30	8°33'18
min. Earth dist.	664 Sep 10 j 15:21	19°♍19'17	0.27770 AU
morning rise	664 Sep 13 j 09:10	17°♍39'41	
direct	664 Sep 30 j 22:06	11°♍49'35	
greatest brilliancy	664 Oct 12 j 00:39	14°♍07'03	-4.9m
asc. node	664 Oct 26 j 12:47	22°♍32'39	
	664 Nov 04 j 18:26	0°♎	
morning max el	664 Nov 20 j 14:27	15°♎05'38	46°52'56
	664 Dec 04 j 15:17	0°♏	
	664 Dec 30 j 22:43	0°♐	
	665 Jan 25 j 04:23	0°♑	
desc. node	665 Feb 15 j 02:21	25°♑15'10	
	665 Feb 19 j 00:16	0°♒	
	665 Mar 15 j 16:19	0°♓	
	665 Apr 09 j 06:54	0°♈	
	665 May 03 j 20:47	0°♉	
morning set	665 May 24 j 19:23	25°♉36'15	
	665 May 28 j 09:33	0°♊	
asc. node	665 Jun 08 j 05:49	13°♊17'20	
	665 Jun 21 j 20:19	0°♋	
max. Earth dist.	665 Jun 27 j 09:41	6°♋50'17	1.73423 AU
superior conj	665 Jun 30 j 03:24	10°♋12'33	0°48'48
minimum elong	665 Jun 29 j 19:15	9°♋47'29	0°48'29
	665 Jul 16 j 04:26	0°♌	
evening rise	665 Aug 04 j 23:50	24°♌30'28	
	665 Aug 09 j 10:14	0°♍	
	665 Sep 02 j 14:57	0°♎	
	665 Sep 26 j 20:00	0°♏	
desc. node	665 Sep 27 j 19:13	1°♏11'53	
	665 Oct 21 j 02:34	0°♐	
	665 Nov 14 j 12:13	0°♑	
	665 Dec 09 j 04:43	0°♒	
	666 Jan 03 j 13:20	0°♓	
asc. node	666 Jan 18 j 22:20	17°♓26'02	
	666 Jan 30 j 13:27	0°♈	
evening max el	666 Feb 07 j 13:59	8°♈13'53	46°22'42
	666 Mar 04 j 10:14	0°♉	
greatest brilliancy	666 Mar 18 j 16:41	7°♉59'08	-4.8m
retrograde	666 Mar 29 j 09:33	10°♉06'25	
evening set	666 Apr 14 j 12:16	5°♉04'35	
inferior conj	666 Apr 19 j 19:14	1°♉49'58	4°37'02
minimum elong	666 Apr 20 j 03:51	1°♉36'20	4°34'54
min. Earth dist.	666 Apr 19 j 22:45	1°♉44'24	0.28849 AU
	666 Apr 22 j 17:24	30°℞♈	
morning rise	666 Apr 25 j 19:34	28°♈10'27	
desc. node	666 May 10 j 11:48	23°♈34'15	
direct	666 May 11 j 06:21	23°♈33'33	
greatest brilliancy	666 May 21 j 09:57	25°♈24'28	-4.7m
	666 May 31 j 01:17	0°♉	
morning max el	666 Jun 28 j 23:53	23°♉13'58	45°44'55

	666 Jul 05 j 22:14	0°♊	
	666 Aug 03 j 03:41	0°♋	
	666 Aug 29 j 06:39	0°♌	
asc. node	666 Aug 31 j 15:15	2°♌46'58	
	666 Sep 23 j 07:18	0°♍	
	666 Oct 17 j 16:29	0°♎	
	666 Nov 10 j 17:23	0°♏	
	666 Dec 04 j 14:57	0°♐	
desc. node	666 Dec 21 j 04:45	20°♐49'31	
morning set	666 Dec 28 j 21:45	0°♑30'23	
	666 Dec 28 j 12:05	0°♑	
	667 Jan 21 j 10:16	0°♒	
superior conj	667 Feb 08 j 08:37	22°♒25'10	-1°23'54
minimum elong	667 Feb 08 j 04:00	22°♒10'47	1°23'52
max. Earth dist.	667 Feb 12 j 09:18	27°♒26'40	1.71944 AU
	667 Feb 14 j 10:30	0°♓	
	667 Mar 10 j 13:48	0°♈	
evening rise	667 Mar 19 j 22:40	11°♈35'26	
	667 Apr 03 j 21:05	0°♉	
asc. node	667 Apr 13 j 08:10	11°♉37'02	
	667 Apr 28 j 08:59	0°♊	
	667 May 23 j 02:05	0°♋	
	667 Jun 17 j 01:48	0°♌	
	667 Jul 12 j 11:32	0°♍	
desc. node	667 Aug 02 j 21:19	24°♍40'25	
	667 Aug 07 j 14:24	0°♎	
	667 Sep 04 j 04:23	0°♏	
evening max el	667 Sep 14 j 04:38	10°♏08'10	46°49'18
	667 Oct 06 j 14:07	0°♐	
greatest brilliancy	667 Oct 24 j 19:38	10°♐30'25	-4.9m
retrograde	667 Nov 03 j 09:33	12°♐14'50	
evening set	667 Nov 17 j 18:04	8°♐09'43	
inferior conj	667 Nov 23 j 22:09	4°♐34'33	-0°01'41
minimum elong	667 Nov 23 j 22:13	4°♐34'27	0°01'39
transit middle	667 Nov 23 j 22:13	4°♐34'27	0°01'39
transit begin	667 Nov 23 j 18:10	4°♐40'37	
transit end	667 Nov 24 j 02:17	4°♐28'18	
min. Earth dist.	667 Nov 23 j 19:56	4°♐37'56	0.26365 AU
asc. node	667 Nov 24 j 00:45	4°♐30'38	
morning rise	667 Nov 30 j 02:18	0°♐59'17	
	667 Dec 02 j 01:19	30°℞♏	
direct	667 Dec 14 j 05:40	26°♏58'16	
greatest brilliancy	667 Dec 24 j 07:53	28°♏54'48	-4.9m
	667 Dec 26 j 23:52	0°♐	
morning max el	668 Feb 02 j 14:20	29°♐44'19	46°44'40
	668 Feb 02 j 20:36	0°♑	
	668 Mar 01 j 22:31	0°♒	
desc. node	668 Mar 14 j 14:20	14°♒18'19	
	668 Mar 28 j 05:15	0°♓	
	668 Apr 22 j 18:58	0°♈	
	668 May 17 j 23:49	0°♉	
	668 Jun 11 j 22:15	0°♊	
asc. node	668 Jul 05 j 17:35	28°♊56'14	
	668 Jul 06 j 14:27	0°♋	
morning set	668 Jul 31 j 10:54	0°♌32'49	
	668 Jul 31 j 00:16	0°♌	
	668 Aug 24 j 04:33	0°♍	
max. Earth dist.	668 Sep 03 j 01:59	12°♍20'10	1.72058 AU
superior conj	668 Sep 06 j 09:12	16°♍27'30	1°23'08
minimum elong	668 Sep 06 j 12:55	16°♍39'06	1°23'06
	668 Sep 17 j 05:05	0°♎	
	668 Oct 11 j 03:54	0°♏	
evening rise	668 Oct 15 j 06:12	5°♏08'03	
desc. node	668 Oct 25 j 07:13	17°♏43'08	
	668 Nov 04 j 02:30	0°♐	
	668 Nov 28 j 01:53	0°♑	
	668 Dec 22 j 03:29	0°♒	
	669 Jan 15 j 10:13	0°♓	
	669 Feb 09 j 03:09	0°♈	
asc. node	669 Feb 15 j 10:18	7°♈31'24	
	669 Mar 06 j 14:52	0°♉	
	669 Apr 02 j 15:10	0°♊	
evening max el	669 Apr 19 j 09:25	17°♊01'35	45°24'46
	669 May 03 j 20:05	0°♋	
greatest brilliancy	669 May 27 j 01:31	14°♋36'54	-4.7m
retrograde	669 Jun 06 j 22:39	16°♋43'30	
desc. node	669 Jun 06 j 23:48	16°♋43'30	
evening set	669 Jun 22 j 07:47	12°♋11'17	
inferior conj	669 Jun 28 j 09:07	8°♋33'52	-4°44'44
minimum elong	669 Jun 28 j 00:07	8°♋47'52	4°42'32
min. Earth dist.	669 Jun 28 j 09:55	8°♋32'37	0.28922 AU
morning rise	669 Jul 03 j 16:20	5°♋21'36	
direct	669 Jul 20 j 01:31	0°♋17'01	
greatest brilliancy	669 Jul 30 j 16:16	2°♋19'19	-4.8m
	669 Sep 06 j 08:12	0°♌	
morning max el	669 Sep 07 j 13:27	1°♌11'26	46°13'20
asc. node	669 Sep 28 j 03:11	22°♌42'32	
	669 Oct 04 j 16:26	0°♍	
	669 Oct 30 j 11:30	0°♎	
	669 Nov 24 j 05:42	0°♏	
	669 Dec 18 j 13:15	0°♐	
	670 Jan 11 j 17:01	0°♑	
desc. node	670 Jan 17 j 16:30	7°♑25'55	
	670 Feb 04 j 20:16	0°♒	
	670 Mar 01 j 00:32	0°♓	
morning set	670 Mar 14 j 10:41	16°♓36'59	
	670 Mar 25 j 06:35	0°♈	
	670 Apr 18 j 14:37	0°♉	
superior conj	670 Apr 21 j 07:02	3°♉18'10	-0°44'09
minimum elong	670 Apr 21 j 15:18	3°♉43'37	0°43'49
max. Earth dist.	670 Apr 22 j 22:03	5°♉18'14	1.73387 AU
asc. node	670 May 10 j 20:03	27°♉19'31	
	670 May 13 j 00:20	0°♊	
evening rise	670 May 28 j 01:47	18°♊29'07	
	670 Jun 06 j 11:07	0°♋	
	670 Jun 30 j 22:47	0°♌	
	670 Jul 25 j 12:04	0°♍	
	670 Aug 19 j 04:33	0°♎	
desc. node	670 Aug 30 j 09:21	13°♎31'57	
	670 Sep 13 j 02:25	0°♏	
	670 Oct 08 j 09:23	0°♐	
	670 Nov 03 j 11:07	0°♑	
evening max el	670 Nov 25 j 20:45	24°♑08'24	47°21'12
	670 Dec 01 j 17:19	0°♒	
asc. node	670 Dec 21 j 12:35	17°♒17'21	
greatest brilliancy	671 Jan 05 j 08:03	25°♒50'20	-4.9m
retrograde	671 Jan 15 j 20:28	27°♒56'40	
evening set	671 Feb 02 j 05:14	22°♒00'44	
min. Earth dist.	671 Feb 04 j 21:14	20°♒21'28	0.27662 AU
inferior conj	671 Feb 05 j 17:49	19°♒49'04	8°30'29
minimum elong	671 Feb 05 j 13:08	19°♒56'27	8°30'09
morning rise	671 Feb 08 j 21:20	17°♒51'57	
direct	671 Feb 26 j 12:27	11°♒54'23	
greatest brilliancy	671 Mar 07 j 09:18	13°♒23'06	-4.8m
	671 Apr 02 j 20:34	0°♓	
desc. node	671 Apr 12 j 02:03	8°♓13'30	
morning max el	671 Apr 16 j 18:02	12°♓39'25	46°02'08
	671 May 03 j 20:45	0°♈	
	671 May 31 j 06:27	0°♉	
	671 Jun 26 j 08:59	0°♊	
	671 Jul 21 j 17:22	0°♋	

asc. node	671 Aug 03 j 05:25	15°♋03'23	
	671 Aug 15 j 12:08	0°♌	
	671 Sep 08 j 20:22	0°♍	
	671 Oct 02 j 21:23	0°♎	
morning set	671 Oct 11 j 05:18	10°♎27'03	
	671 Oct 26 j 18:31	0°♏	
	671 Nov 19 j 14:23	0°♐	
superior conj	671 Nov 20 j 10:32	1°♐03'25	0°05'38
minimum elong	671 Nov 20 j 12:02	1°♐08'08	0°05'33
behind sun begin	671 Nov 19 j 10:58	29°♏49'16	
behind sun end	671 Nov 21 j 13:05	2°♐26'59	
max. Earth dist.	671 Nov 20 j 23:41	1°♐44'50	1.71034 AU
desc. node	671 Nov 22 j 19:00	4°♐01'07	
	671 Dec 13 j 10:35	0°♑	
evening rise	672 Jan 01 j 04:07	23°♑31'04	
	672 Jan 06 j 08:14	0°♒	
	672 Jan 30 j 08:41	0°♓	
	672 Feb 23 j 14:00	0°♈	
asc. node	672 Mar 14 j 22:21	24°♈54'52	
	672 Mar 19 j 02:51	0°♉	
	672 Apr 13 j 02:36	0°♊	
	672 May 08 j 18:34	0°♋	
	672 Jun 04 j 14:54	0°♌	
evening max el	672 Jun 29 j 12:01	25°♌30'08	45°36'24
desc. node	672 Jul 04 j 11:34	0°♍10'10	
	672 Jul 04 j 07:08	0°♍	
greatest brilliancy	672 Aug 08 j 02:37	23°♍48'01	-4.8m
retrograde	672 Aug 17 j 07:58	25°♍20'50	
evening set	672 Sep 04 j 07:18	19°♍23'15	
inferior conj	672 Sep 07 j 09:52	17°♍30'19	-8°37'53
minimum elong	672 Sep 07 j 14:03	17°♍23'53	8°37'39
min. Earth dist.	672 Sep 08 j 05:12	17°♍00'38	0.27837 AU
morning rise	672 Sep 10 j 20:33	15°♍24'39	
direct	672 Sep 28 j 12:16	9°♍29'26	
greatest brilliancy	672 Oct 09 j 16:09	11°♍47'47	-4.9m
asc. node	672 Oct 25 j 14:54	21°♍17'50	
	672 Nov 05 j 00:50	0°♎	
morning max el	672 Nov 18 j 04:00	12°♎40'47	46°52'17
	672 Dec 04 j 09:28	0°♏	
	672 Dec 30 j 13:30	0°♐	
	673 Jan 24 j 17:35	0°♑	
desc. node	673 Feb 14 j 04:31	24°♑44'08	
	673 Feb 18 j 12:33	0°♒	
	673 Mar 15 j 03:59	0°♓	
	673 Apr 08 j 18:09	0°♈	
	673 May 03 j 07:43	0°♉	
morning set	673 May 22 j 13:34	23°♉31'58	
	673 May 27 j 20:19	0°♊	
asc. node	673 Jun 07 j 07:49	12°♊50'38	
	673 Jun 21 j 07:00	0°♋	
max. Earth dist.	673 Jun 25 j 06:56	4°♋55'06	1.73451 AU
superior conj	673 Jun 27 j 22:03	8°♋09'24	0°46'14
minimum elong	673 Jun 27 j 14:09	7°♋45'05	0°45'54
	673 Jul 15 j 15:08	0°♌	
evening rise	673 Aug 02 j 17:51	22°♌24'12	
	673 Aug 08 j 21:05	0°♍	
	673 Sep 02 j 02:03	0°♎	
	673 Sep 26 j 07:27	0°♏	
desc. node	673 Sep 26 j 21:24	0°♏43'09	
	673 Oct 20 j 14:28	0°♐	
	673 Nov 14 j 00:42	0°♑	
	673 Dec 08 j 18:06	0°♒	
	674 Jan 03 j 04:25	0°♓	
asc. node	674 Jan 18 j 00:27	16°♓44'56	
	674 Jan 30 j 08:54	0°♈	
evening max el	674 Feb 05 j 04:20	5°♈55'44	46°25'25
	674 Mar 05 j 07:40	0°♉	
greatest brilliancy	674 Mar 16 j 09:08	5°♉48'17	-4.8m
retrograde	674 Mar 27 j 02:14	7°♉56'15	
evening set	674 Apr 12 j 07:06	2°♉50'15	
	674 Apr 16 j 22:32	30°℞♈	
inferior conj	674 Apr 17 j 11:34	29°♈39'25	4°53'41
minimum elong	674 Apr 17 j 20:29	29°♈25'20	4°51'32
min. Earth dist.	674 Apr 17 j 14:52	29°♈34'13	0.28835 AU
morning rise	674 Apr 23 j 10:01	26°♈02'47	
direct	674 May 08 j 22:04	21°♈23'02	
desc. node	674 May 09 j 13:52	21°♈23'32	
greatest brilliancy	674 May 19 j 01:33	23°♈14'09	-4.7m
	674 Jun 01 j 04:36	0°♉	
morning max el	674 Jun 26 j 16:26	21°♉05'31	45°44'48
	674 Jul 05 j 17:59	0°♊	
	674 Aug 02 j 18:31	0°♋	
	674 Aug 28 j 19:36	0°♌	
asc. node	674 Aug 30 j 17:26	2°♌15'25	
	674 Sep 22 j 19:21	0°♍	
	674 Oct 17 j 04:05	0°♎	
	674 Nov 10 j 04:47	0°♏	
	674 Dec 04 j 02:15	0°♐	
desc. node	674 Dec 20 j 06:45	20°♐20'33	
morning set	674 Dec 26 j 07:16	27°♐54'19	
	674 Dec 27 j 23:17	0°♑	
	675 Jan 20 j 21:22	0°♒	
superior conj	675 Feb 05 j 20:08	19°♒56'49	-1°23'03
minimum elong	675 Feb 05 j 14:35	19°♒39'29	1°22'59
max. Earth dist.	675 Feb 09 j 18:41	24°♒51'53	1.71890 AU
	675 Feb 13 j 21:31	0°♓	
	675 Mar 10 j 00:47	0°♈	
evening rise	675 Mar 17 j 12:44	9°♈16'42	
	675 Apr 03 j 08:07	0°♉	
asc. node	675 Apr 12 j 10:14	11°♉09'29	
	675 Apr 27 j 20:12	0°♊	
	675 May 22 j 13:40	0°♋	
	675 Jun 16 j 14:02	0°♌	
	675 Jul 12 j 00:54	0°♍	
desc. node	675 Aug 01 j 23:30	24°♍04'01	
	675 Aug 07 j 05:57	0°♎	
	675 Sep 04 j 00:59	0°♏	
evening max el	675 Sep 11 j 18:42	7°♏46'41	46°46'57
	675 Oct 07 j 11:31	0°♐	
greatest brilliancy	675 Oct 22 j 07:56	8°♐01'03	-4.9m
retrograde	675 Oct 31 j 22:11	9°♐45'14	
evening set	675 Nov 15 j 07:08	5°♐39'01	
inferior conj	675 Nov 21 j 10:12	2°♐05'05	-0°26'23
minimum elong	675 Nov 21 j 11:12	2°♐03'33	0°26'03
min. Earth dist.	675 Nov 21 j 09:06	2°♐06'45	0.26372 AU
asc. node	675 Nov 23 j 02:42	1°♐03'51	
	675 Nov 24 j 21:52	30°℞♏	
morning rise	675 Nov 27 j 15:16	28°♏29'00	
direct	675 Dec 11 j 18:38	24°♏28'47	
greatest brilliancy	675 Dec 21 j 21:11	26°♏26'05	-4.9m
	675 Dec 29 j 08:55	0°♐	
morning max el	676 Jan 31 j 04:36	27°♐21'25	46°45'44
	676 Feb 02 j 19:23	0°♑	
	676 Mar 01 j 14:57	0°♒	
desc. node	676 Mar 13 j 16:27	13°♒41'16	
	676 Mar 27 j 19:11	0°♓	
	676 Apr 22 j 07:36	0°♈	
	676 May 17 j 11:40	0°♉	
	676 Jun 11 j 09:37	0°♊	
asc. node	676 Jul 04 j 19:39	28°♊28'40	
	676 Jul 06 j 01:32	0°♋	

morning set	676 Jul 29 j 04:09	28°♋23'59	
	676 Jul 30 j 11:15	0°♌	
	676 Aug 23 j 15:31	0°♍	
max. Earth dist.	676 Aug 31 j 14:39	9°♍55'38	1.72107 AU
superior conj	676 Sep 04 j 01:05	14°♍12'53	1°23'42
minimum elong	676 Sep 04 j 04:03	14°♍22'08	1°23'42
	676 Sep 16 j 16:07	0°♎	
	676 Oct 10 j 15:04	0°♏	
evening rise	676 Oct 12 j 18:33	2°♏41'20	
desc. node	676 Oct 24 j 09:14	17°♏14'20	
	676 Nov 03 j 13:48	0°♐	
	676 Nov 27 j 13:22	0°♑	
	676 Dec 21 j 15:14	0°♒	
	677 Jan 14 j 22:22	0°♓	
	677 Feb 08 j 16:02	0°♈	
asc. node	677 Feb 14 j 12:26	6°♈58'44	
	677 Mar 06 j 05:11	0°♉	
	677 Apr 02 j 08:59	0°♊	
evening max el	677 Apr 17 j 01:43	14°♊51'29	45°25'46
	677 May 04 j 04:40	0°♋	
greatest brilliancy	677 May 24 j 17:32	12°♋27'32	-4.7m
retrograde	677 Jun 04 j 14:30	14°♋33'53	
desc. node	677 Jun 06 j 01:47	14°♋31'22	
evening set	677 Jun 19 j 22:18	10°♋04'12	
inferior conj	677 Jun 26 j 01:19	6°♋24'02	-4°27'56
minimum elong	677 Jun 25 j 16:40	6°♋37'32	4°25'45
min. Earth dist.	677 Jun 26 j 01:59	6°♋23'01	0.28931 AU
morning rise	677 Jul 01 j 10:56	3°♋08'00	
	677 Jul 07 j 22:59	30°℞♊	
direct	677 Jul 17 j 18:05	28°♊07'10	
	677 Jul 27 j 22:39	0°♋	
greatest brilliancy	677 Jul 28 j 07:46	0°♋08'11	-4.7m
morning max el	677 Sep 05 j 04:06	28°♋55'10	46°11'49
	677 Sep 06 j 06:27	0°♌	
asc. node	677 Sep 27 j 05:13	22°♌01'30	
	677 Oct 04 j 08:22	0°♍	
	677 Oct 30 j 01:16	0°♎	
	677 Nov 23 j 18:25	0°♏	
	677 Dec 18 j 01:21	0°♐	
	678 Jan 11 j 04:44	0°♑	
desc. node	678 Jan 16 j 18:43	6°♑56'34	
	678 Feb 04 j 07:43	0°♒	
	678 Feb 28 j 11:47	0°♓	
morning set	678 Mar 12 j 01:11	14°♓18'53	
	678 Mar 24 j 17:40	0°♈	
	678 Apr 18 j 01:36	0°♉	
superior conj	678 Apr 18 j 23:46	1°♉08'11	-0°46'57
minimum elong	678 Apr 19 j 08:23	1°♉34'44	0°46'36
max. Earth dist.	678 Apr 20 j 19:18	3°♉22'09	1.73353 AU
asc. node	678 May 09 j 22:02	26°♉52'00	
	678 May 12 j 11:17	0°♊	
evening rise	678 May 25 j 20:20	16°♊25'01	
	678 Jun 05 j 22:09	0°♋	
	678 Jun 30 j 10:04	0°♌	
	678 Jul 24 j 23:46	0°♍	
	678 Aug 18 j 16:52	0°♎	
desc. node	678 Aug 29 j 11:30	13°♎00'13	
	678 Sep 12 j 15:38	0°♏	
	678 Oct 08 j 00:03	0°♐	
	678 Nov 03 j 04:35	0°♑	
evening max el	678 Nov 23 j 11:00	21°♑44'35	47°21'46
	678 Dec 01 j 18:58	0°♒	
asc. node	678 Dec 20 j 14:41	15°♒58'46	
greatest brilliancy	679 Jan 02 j 23:50	23°♒29'20	-4.9m
retrograde	679 Jan 13 j 10:48	25°♒34'34	
evening set	679 Jan 30 j 16:59	19°♒43'52	
min. Earth dist.	679 Feb 02 j 11:20	18°♒01'07	0.27597 AU
inferior conj	679 Feb 03 j 08:18	17°♒28'07	8°25'28
minimum elong	679 Feb 03 j 02:51	17°♒36'42	8°25'00
morning rise	679 Feb 06 j 13:01	15°♒29'07	
direct	679 Feb 24 j 01:57	9°♒34'33	
greatest brilliancy	679 Mar 04 j 23:10	11°♒03'15	-4.8m
	679 Apr 03 j 03:01	0°♓	
desc. node	679 Apr 11 j 04:08	7°♓19'54	
morning max el	679 Apr 14 j 07:13	10°♓19'22	46°03'21
	679 May 03 j 14:40	0°♈	
	679 May 30 j 20:51	0°♉	
	679 Jun 25 j 21:47	0°♊	
	679 Jul 21 j 05:19	0°♋	
asc. node	679 Aug 02 j 07:38	14°♋34'39	
	679 Aug 14 j 23:38	0°♌	
	679 Sep 08 j 07:39	0°♍	
	679 Oct 02 j 08:36	0°♎	
morning set	679 Oct 08 j 18:36	8°♎02'56	
	679 Oct 26 j 05:44	0°♏	
superior conj	679 Nov 17 j 20:42	28°♏28'56	0°09'35
minimum elong	679 Nov 17 j 23:13	28°♏36'54	0°09'28
behind sun begin	679 Nov 17 j 01:29	27°♏28'26	
behind sun end	679 Nov 18 j 20:58	29°♏45'21	
max. Earth dist.	679 Nov 18 j 02:14	28°♏46'23	1.71040 AU
	679 Nov 19 j 01:38	0°♐	
desc. node	679 Nov 21 j 21:02	3°♐32'06	
	679 Dec 12 j 21:52	0°♑	
evening rise	679 Dec 29 j 14:10	20°♑56'44	
	680 Jan 05 j 19:31	0°♒	
	680 Jan 29 j 20:01	0°♓	
	680 Feb 23 j 01:28	0°♈	
asc. node	680 Mar 14 j 00:23	24°♈25'22	
	680 Mar 18 j 14:39	0°♉	
	680 Apr 12 j 15:05	0°♊	
	680 May 08 j 08:26	0°♋	
	680 Jun 04 j 07:45	0°♌	
evening max el	680 Jun 27 j 01:25	23°♌11'54	45°34'46
desc. node	680 Jul 03 j 13:47	29°♌15'34	
	680 Jul 04 j 09:31	0°♍	
greatest brilliancy	680 Aug 05 j 14:55	21°♍28'33	-4.8m
retrograde	680 Aug 14 j 21:45	23°♍02'46	
evening set	680 Sep 01 j 22:00	17°♍03'08	
inferior conj	680 Sep 05 j 00:00	15°♍11'10	-8°41'13
minimum elong	680 Sep 05 j 03:21	15°♍06'01	8°41'04
min. Earth dist.	680 Sep 05 j 18:51	14°♍42'16	0.27904 AU
morning rise	680 Sep 08 j 08:27	13°♍08'57	
direct	680 Sep 26 j 02:53	7°♍09'05	
greatest brilliancy	680 Oct 07 j 07:25	9°♍28'05	-4.9m
asc. node	680 Oct 24 j 16:57	20°♍04'31	
	680 Nov 05 j 05:28	0°♎	
morning max el	680 Nov 15 j 18:35	10°♎18'06	46°51'30
	680 Dec 04 j 03:28	0°♏	
	680 Dec 30 j 04:22	0°♐	
	681 Jan 24 j 06:56	0°♑	
desc. node	681 Feb 13 j 06:36	24°♑12'17	
	681 Feb 18 j 00:59	0°♒	
	681 Mar 14 j 15:47	0°♓	
	681 Apr 08 j 05:30	0°♈	
	681 May 02 j 18:47	0°♉	
morning set	681 May 20 j 07:57	21°♉27'46	
	681 May 27 j 07:14	0°♊	
asc. node	681 Jun 06 j 09:56	12°♊23'48	
	681 Jun 20 j 17:52	0°♋	
max. Earth dist.	681 Jun 23 j 05:35	3°♋03'39	1.73481 AU

superior conj	681 Jun 25 j 16:46	6°♋05'48	0°43'36
minimum elong	681 Jun 25 j 09:09	5°♋42'21	0°43'16
	681 Jul 15 j 02:03	0°♌	
evening rise	681 Jul 31 j 11:55	20°♌17'34	
	681 Aug 08 j 08:08	0°♍	
	681 Sep 01 j 13:20	0°♎	
desc. node	681 Sep 25 j 23:22	0°♏13'12	
	681 Sep 25 j 19:05	0°♏	
	681 Oct 20 j 02:34	0°♐	
	681 Nov 13 j 13:25	0°♑	
	681 Dec 08 j 07:45	0°♒	
	682 Jan 02 j 19:52	0°♓	
asc. node	682 Jan 17 j 02:38	16°♓03'03	
	682 Jan 30 j 05:07	0°♈	
evening max el	682 Feb 02 j 19:46	3°♈39'48	46°28'13
	682 Mar 06 j 13:32	0°♉	
greatest brilliancy	682 Mar 14 j 01:26	3°♉37'07	-4.8m
retrograde	682 Mar 24 j 19:30	5°♉45'58	
evening set	682 Apr 10 j 02:06	0°♉35'55	
	682 Apr 11 j 02:27	30°℞♈	
inferior conj	682 Apr 15 j 03:58	27°♈28'49	5°09'55
minimum elong	682 Apr 15 j 13:09	27°♈14'21	5°07'46
min. Earth dist.	682 Apr 15 j 06:39	27°♈24'35	0.28817 AU
morning rise	682 Apr 21 j 00:24	23°♈55'24	
direct	682 May 06 j 14:15	19°♈12'45	
desc. node	682 May 08 j 15:51	19°♈17'42	
greatest brilliancy	682 May 16 j 16:30	21°♈03'20	-4.7m
	682 Jun 02 j 00:28	0°♉	
morning max el	682 Jun 24 j 09:26	18°♉58'15	45°44'36
	682 Jul 05 j 13:11	0°♊	
	682 Aug 02 j 09:15	0°♋	
	682 Aug 28 j 08:34	0°♌	
asc. node	682 Aug 29 j 19:26	1°♌43'11	
	682 Sep 22 j 07:28	0°♍	
	682 Oct 16 j 15:46	0°♎	
	682 Nov 09 j 16:14	0°♏	
	682 Dec 03 j 13:34	0°♐	
desc. node	682 Dec 19 j 08:54	19°♐51'57	
morning set	682 Dec 23 j 16:47	25°♐18'12	
	682 Dec 27 j 10:31	0°♑	
	683 Jan 20 j 08:31	0°♒	
superior conj	683 Feb 03 j 07:29	17°♒27'39	-1°22'02
minimum elong	683 Feb 03 j 01:01	17°♒07'25	1°21'56
max. Earth dist.	683 Feb 07 j 05:47	22°♒22'07	1.71839 AU
	683 Feb 13 j 08:36	0°♓	
	683 Mar 09 j 11:49	0°♈	
evening rise	683 Mar 15 j 02:46	6°♈57'37	
	683 Apr 02 j 19:11	0°♉	
asc. node	683 Apr 11 j 12:16	10°♉41'42	
	683 Apr 27 j 07:24	0°♊	
	683 May 22 j 01:13	0°♋	
	683 Jun 16 j 02:15	0°♌	
	683 Jul 11 j 14:20	0°♍	
desc. node	683 Aug 01 j 01:33	23°♍27'02	
	683 Aug 06 j 21:43	0°♎	
	683 Sep 03 j 22:20	0°♏	
evening max el	683 Sep 09 j 09:08	5°♏26'06	46°44'24
	683 Oct 08 j 16:50	0°♐	
greatest brilliancy	683 Oct 19 j 20:41	5°♐32'18	-4.9m
retrograde	683 Oct 29 j 10:38	7°♐15'28	
evening set	683 Nov 12 j 20:29	3°♐08'17	
	683 Nov 18 j 06:17	30°℞♏	
inferior conj	683 Nov 18 j 22:15	29°♏35'46	-0°51'03
minimum elong	683 Nov 19 j 00:12	29°♏32'48	0°50'26
min. Earth dist.	683 Nov 18 j 22:27	29°♏35'28	0.26380 AU
asc. node	683 Nov 22 j 04:50	27°♏38'02	
morning rise	683 Nov 25 j 03:58	25°♏58'52	
direct	683 Dec 09 j 07:29	21°♏59'34	
greatest brilliancy	683 Dec 19 j 10:31	23°♏57'23	-4.9m
	683 Dec 30 j 21:45	0°♐	
morning max el	684 Jan 28 j 17:57	24°♐56'21	46°46'43
	684 Feb 02 j 17:13	0°♑	
	684 Mar 01 j 07:01	0°♒	
desc. node	684 Mar 12 j 18:26	13°♒04'21	
	684 Mar 27 j 08:56	0°♓	
	684 Apr 21 j 20:05	0°♈	
	684 May 16 j 23:23	0°♉	
	684 Jun 10 j 20:51	0°♊	
asc. node	684 Jul 03 j 21:51	28°♊01'59	
	684 Jul 05 j 12:27	0°♋	
morning set	684 Jul 26 j 21:42	26°♋16'43	
	684 Jul 29 j 22:02	0°♌	
	684 Aug 23 j 02:19	0°♍	
max. Earth dist.	684 Aug 29 j 03:18	7°♍31'42	1.72164 AU
superior conj	684 Sep 01 j 17:15	11°♍59'45	1°24'09
minimum elong	684 Sep 01 j 19:28	12°♍06'38	1°24'09
	684 Sep 16 j 03:02	0°♎	
evening rise	684 Oct 10 j 06:56	0°♏15'03	
	684 Oct 10 j 02:08	0°♏	
desc. node	684 Oct 23 j 11:19	16°♏45'53	
	684 Nov 03 j 01:02	0°♐	
	684 Nov 27 j 00:47	0°♑	
	684 Dec 21 j 02:55	0°♒	
	685 Jan 14 j 10:28	0°♓	
	685 Feb 08 j 04:51	0°♈	
asc. node	685 Feb 13 j 14:27	6°♈25'54	
	685 Mar 05 j 19:30	0°♉	
	685 Apr 02 j 03:03	0°♊	
evening max el	685 Apr 14 j 17:17	12°♊39'56	45°26'50
	685 May 04 j 15:58	0°♋	
greatest brilliancy	685 May 22 j 10:04	10°♋19'23	-4.7m
retrograde	685 Jun 02 j 06:12	12°♋25'18	
desc. node	685 Jun 05 j 03:59	12°♋15'26	
evening set	685 Jun 17 j 13:04	7°♋57'46	
inferior conj	685 Jun 23 j 17:39	4°♋15'23	-4°10'47
minimum elong	685 Jun 23 j 09:24	4°♋28'16	4°08'39
min. Earth dist.	685 Jun 23 j 18:32	4°♋14'01	0.28936 AU
morning rise	685 Jun 29 j 05:34	0°♋55'41	
	685 Jun 30 j 22:13	30°℞♊	
direct	685 Jul 15 j 10:10	25°♊58'28	
greatest brilliancy	685 Jul 25 j 23:48	27°♊58'49	-4.7m
	685 Jul 30 j 16:41	0°♋	
morning max el	685 Sep 02 j 18:12	26°♋38'40	46°10'21
	685 Sep 06 j 03:30	0°♌	
asc. node	685 Sep 26 j 07:17	21°♌22'00	
	685 Oct 03 j 23:45	0°♍	
	685 Oct 29 j 14:39	0°♎	
	685 Nov 23 j 06:52	0°♏	
	685 Dec 17 j 13:15	0°♐	
	686 Jan 10 j 16:16	0°♑	
desc. node	686 Jan 15 j 20:49	6°♑27'28	
	686 Feb 03 j 18:58	0°♒	
	686 Feb 27 j 22:49	0°♓	
morning set	686 Mar 09 j 15:12	11°♓59'57	
	686 Mar 24 j 04:31	0°♈	
superior conj	686 Apr 16 j 16:18	28°♈58'18	-0°49'42
minimum elong	686 Apr 17 j 01:14	29°♈25'47	0°49'20
	686 Apr 17 j 12:21	0°♉	
max. Earth dist.	686 Apr 18 j 14:50	1°♉21'30	1.73317 AU
asc. node	686 May 09 j 00:11	26°♉25'41	
	686 May 11 j 22:00	0°♊	

evening rise	686 May 23 j 14:48	14°♊21'23	
	686 Jun 05 j 08:58	0°♋	
	686 Jun 29 j 21:06	0°♌	
	686 Jul 24 j 11:11	0°♍	
	686 Aug 18 j 04:51	0°♎	
desc. node	686 Aug 28 j 13:30	12°♎29'06	
	686 Sep 12 j 04:33	0°♏	
	686 Oct 07 j 14:30	0°♐	
	686 Nov 02 j 22:07	0°♑	
evening max el	686 Nov 21 j 00:20	19°♑18'53	47°22'00
	686 Dec 01 j 21:53	0°♒	
asc. node	686 Dec 19 j 16:51	14°♒37'44	
greatest brilliancy	686 Dec 31 j 15:14	21°♒07'20	-4.9m
retrograde	687 Jan 11 j 00:46	23°♒11'43	
evening set	687 Jan 28 j 03:59	17°♒26'28	
min. Earth dist.	687 Jan 31 j 01:13	15°♒39'36	0.27535 AU
inferior conj	687 Jan 31 j 22:22	15°♒06'20	8°19'17
minimum elong	687 Jan 31 j 16:13	15°♒16'02	8°18'41
morning rise	687 Feb 04 j 04:43	13°♒04'57	
direct	687 Feb 21 j 14:44	7°♒13'39	
greatest brilliancy	687 Mar 02 j 12:59	8°♒42'58	-4.8m
	687 Apr 03 j 07:19	0°♓	
desc. node	687 Apr 10 j 06:12	6°♓27'44	
morning max el	687 Apr 11 j 20:28	7°♓59'48	46°04'45
	687 May 03 j 07:57	0°♈	
	687 May 30 j 10:49	0°♉	
	687 Jun 25 j 10:13	0°♊	
	687 Jul 20 j 16:57	0°♋	
asc. node	687 Aug 01 j 09:35	14°♋06'06	
	687 Aug 14 j 10:49	0°♌	
	687 Sep 07 j 18:36	0°♍	
	687 Oct 01 j 19:26	0°♎	
morning set	687 Oct 06 j 08:25	5°♎41'38	
	687 Oct 25 j 16:34	0°♏	
superior conj	687 Nov 15 j 07:08	25°♏56'29	0°13'29
minimum elong	687 Nov 15 j 10:40	26°♏07'37	0°13'18
behind sun begin	687 Nov 14 j 19:13	25°♏18'58	
behind sun end	687 Nov 16 j 02:07	26°♏56'15	
max. Earth dist.	687 Nov 15 j 09:24	26°♏03'37	1.71054 AU
	687 Nov 18 j 12:30	0°♐	
desc. node	687 Nov 20 j 23:13	3°♐04'44	
	687 Dec 12 j 08:48	0°♑	
evening rise	687 Dec 27 j 00:11	18°♑23'12	
	688 Jan 05 j 06:32	0°♒	
	688 Jan 29 j 07:06	0°♓	
	688 Feb 22 j 12:43	0°♈	
asc. node	688 Mar 13 j 02:25	23°♈56'31	
	688 Mar 18 j 02:15	0°♉	
	688 Apr 12 j 03:24	0°♊	
	688 May 07 j 22:10	0°♋	
	688 Jun 04 j 00:40	0°♌	
evening max el	688 Jun 24 j 15:41	20°♌56'41	45°33'16
desc. node	688 Jul 02 j 15:49	28°♌20'14	
	688 Jul 04 j 13:09	0°♍	
greatest brilliancy	688 Aug 03 j 02:45	19°♍09'41	-4.8m
retrograde	688 Aug 12 j 11:59	20°♍45'38	
evening set	688 Aug 30 j 12:23	14°♍44'34	
inferior conj	688 Sep 02 j 14:06	12°♍53'01	-8°43'47
minimum elong	688 Sep 02 j 16:37	12°♍49'10	8°43'42
min. Earth dist.	688 Sep 03 j 08:07	12°♍25'25	0.27964 AU
morning rise	688 Sep 05 j 20:38	10°♍53'48	
direct	688 Sep 23 j 17:52	4°♍50'00	
greatest brilliancy	688 Oct 04 j 21:53	7°♍08'48	-4.9m
asc. node	688 Oct 23 j 19:03	18°♍54'37	
	688 Nov 05 j 07:52	0°♎	
morning max el	688 Nov 13 j 09:58	7°♎58'58	46°50'46
	688 Dec 03 j 20:37	0°♏	
	688 Dec 29 j 18:37	0°♐	
	689 Jan 23 j 19:49	0°♑	
desc. node	689 Feb 12 j 08:34	23°♑41'11	
	689 Feb 17 j 13:04	0°♒	
	689 Mar 14 j 03:18	0°♓	
	689 Apr 07 j 16:37	0°♈	
	689 May 02 j 05:37	0°♉	
morning set	689 May 18 j 01:55	19°♉23'03	
	689 May 26 j 17:54	0°♊	
asc. node	689 Jun 05 j 12:03	11°♊57'45	
	689 Jun 20 j 04:29	0°♋	
max. Earth dist.	689 Jun 21 j 04:57	1°♋15'15	1.73506 AU
superior conj	689 Jun 23 j 11:06	4°♋01'50	0°40'52
minimum elong	689 Jun 23 j 03:48	3°♋39'22	0°40'34
	689 Jul 14 j 12:43	0°♌	
evening rise	689 Jul 29 j 05:52	18°♌11'20	
	689 Aug 07 j 18:57	0°♍	
	689 Sep 01 j 00:24	0°♎	
desc. node	689 Sep 25 j 01:28	29°♎44'27	
	689 Sep 25 j 06:29	0°♏	
	689 Oct 19 j 14:23	0°♐	
	689 Nov 13 j 01:49	0°♑	
	689 Dec 07 j 21:06	0°♒	
	690 Jan 02 j 11:08	0°♓	
asc. node	690 Jan 16 j 04:34	15°♓21'07	
	690 Jan 30 j 01:36	0°♈	
evening max el	690 Jan 31 j 11:53	1°♈26'25	46°30'43
	690 Mar 08 j 09:13	0°♉	
greatest brilliancy	690 Mar 11 j 17:42	1°♉26'13	-4.8m
retrograde	690 Mar 22 j 12:32	3°♉35'25	
	690 Apr 04 j 21:26	30°℞♈	
evening set	690 Apr 07 j 21:01	28°♈21'28	
inferior conj	690 Apr 12 j 20:10	25°♈18'02	5°25'50
minimum elong	690 Apr 13 j 05:33	25°♈03'14	5°23'42
min. Earth dist.	690 Apr 12 j 22:06	25°♈15'00	0.28800 AU
morning rise	690 Apr 18 j 14:23	21°♈47'56	
direct	690 May 04 j 06:35	17°♈02'26	
desc. node	690 May 07 j 18:02	17°♈16'21	
greatest brilliancy	690 May 14 j 06:47	18°♈51'43	-4.7m
	690 Jun 02 j 15:09	0°♉	
morning max el	690 Jun 22 j 02:06	16°♉50'34	45°44'23
	690 Jul 05 j 07:42	0°♊	
	690 Aug 01 j 23:36	0°♋	
	690 Aug 27 j 21:14	0°♌	
asc. node	690 Aug 28 j 21:30	1°♌11'55	
	690 Sep 21 j 19:19	0°♍	
	690 Oct 16 j 03:13	0°♎	
	690 Nov 09 j 03:28	0°♏	
	690 Dec 03 j 00:39	0°♐	
desc. node	690 Dec 18 j 10:59	19°♐23'59	
morning set	690 Dec 21 j 02:44	22°♐44'18	
	690 Dec 26 j 21:28	0°♑	
	691 Jan 19 j 19:21	0°♒	
superior conj	691 Jan 31 j 19:06	15°♒00'09	-1°20'51
minimum elong	691 Jan 31 j 11:46	14°♒37'12	1°20'44
max. Earth dist.	691 Feb 04 j 19:39	20°♒01'48	1.71788 AU
	691 Feb 12 j 19:22	0°♓	
	691 Mar 08 j 22:36	0°♈	
evening rise	691 Mar 12 j 16:52	4°♈39'26	
	691 Apr 02 j 06:02	0°♉	
asc. node	691 Apr 10 j 14:25	10°♉14'53	
	691 Apr 26 j 18:27	0°♊	
	691 May 21 j 12:39	0°♋	
	691 Jun 15 j 14:24	0°♌	

	691 Jul 11 j 03:46	0°♍	
desc. node	691 Jul 31 j 03:33	22°♍49'55	
	691 Aug 06 j 13:38	0°♎	
	691 Sep 03 j 20:23	0°♏	
evening max el	691 Sep 06 j 22:56	3°♏04'19	46°41'46
	691 Oct 10 j 10:48	0°♐	
greatest brilliancy	691 Oct 17 j 09:58	3°♐04'27	-4.9m
retrograde	691 Oct 26 j 22:22	4°♐45'46	
evening set	691 Nov 10 j 09:56	0°♐37'25	
	691 Nov 11 j 13:15	30°℞♏	
inferior conj	691 Nov 16 j 10:14	27°♏06'43	-1°15'46
minimum elong	691 Nov 16 j 13:07	27°♏02'19	1°14'49
min. Earth dist.	691 Nov 16 j 12:07	27°♏03'52	0.26389 AU
asc. node	691 Nov 21 j 06:59	24°♏14'12	
morning rise	691 Nov 22 j 16:17	23°♏29'03	
direct	691 Dec 06 j 19:49	19°♏30'26	
greatest brilliancy	691 Dec 17 j 00:14	21°♏29'12	-4.9m
	691 Dec 31 j 23:40	0°♐	
morning max el	692 Jan 26 j 06:24	22°♐29'18	46°47'54
	692 Feb 02 j 14:04	0°♑	
	692 Feb 29 j 22:36	0°♒	
desc. node	692 Mar 11 j 20:35	12°♒28'55	
	692 Mar 26 j 22:19	0°♓	
	692 Apr 21 j 08:19	0°♈	
	692 May 16 j 10:56	0°♉	
	692 Jun 10 j 07:58	0°♊	
asc. node	692 Jul 02 j 23:49	27°♊34'43	
	692 Jul 04 j 23:20	0°♋	
morning set	692 Jul 24 j 15:00	24°♋08'46	
	692 Jul 29 j 08:48	0°♌	
	692 Aug 22 j 13:06	0°♍	
max. Earth dist.	692 Aug 26 j 16:36	5°♍09'55	1.72221 AU
superior conj	692 Aug 30 j 09:16	9°♍46'18	1°24'28
minimum elong	692 Aug 30 j 10:42	9°♍50'45	1°24'27
	692 Sep 15 j 13:55	0°♎	
evening rise	692 Oct 07 j 19:17	27°♎48'54	
	692 Oct 09 j 13:10	0°♏	
desc. node	692 Oct 22 j 13:27	16°♏17'40	
	692 Nov 02 j 12:15	0°♐	
	692 Nov 26 j 12:14	0°♑	
	692 Dec 20 j 14:37	0°♒	
	693 Jan 13 j 22:33	0°♓	
	693 Feb 07 j 17:39	0°♈	
asc. node	693 Feb 12 j 16:32	5°♈53'28	
	693 Mar 05 j 09:50	0°♉	
	693 Apr 01 j 21:24	0°♊	
evening max el	693 Apr 12 j 08:11	10°♊27'09	45°27'57
	693 May 05 j 06:59	0°♋	
greatest brilliancy	693 May 20 j 02:18	8°♋11'08	-4.7m
retrograde	693 May 30 j 21:58	10°♋17'13	
desc. node	693 Jun 04 j 05:59	9°♋55'09	
evening set	693 Jun 15 j 04:02	5°♋51'09	
inferior conj	693 Jun 21 j 10:04	2°♋06'57	-3°53'11
minimum elong	693 Jun 21 j 02:15	2°♋19'09	3°51'09
min. Earth dist.	693 Jun 21 j 11:19	2°♋04'59	0.28948 AU
	693 Jun 24 j 20:12	30°℞♊	
morning rise	693 Jun 27 j 00:13	28°♊43'48	
direct	693 Jul 13 j 02:05	23°♊49'39	
greatest brilliancy	693 Jul 23 j 16:36	25°♊50'15	-4.7m
	693 Aug 01 j 09:08	0°♋	
morning max el	693 Aug 31 j 08:43	24°♋22'56	46°08'55
	693 Sep 05 j 23:59	0°♌	
asc. node	693 Sep 25 j 09:26	20°♌42'47	
	693 Oct 03 j 15:03	0°♍	
	693 Oct 29 j 04:03	0°♎	
	693 Nov 22 j 19:20	0°♏	
	693 Dec 17 j 01:12	0°♐	
	694 Jan 10 j 03:51	0°♑	
desc. node	694 Jan 14 j 22:44	5°♑57'32	
	694 Feb 03 j 06:18	0°♒	
	694 Feb 27 j 09:55	0°♓	
morning set	694 Mar 07 j 05:16	9°♓40'43	
	694 Mar 23 j 15:26	0°♈	
superior conj	694 Apr 14 j 09:06	26°♈49'04	-0°52'20
minimum elong	694 Apr 14 j 18:17	27°♈17'22	0°51'59
max. Earth dist.	694 Apr 16 j 09:25	29°♈17'48	1.73277 AU
	694 Apr 16 j 23:08	0°♉	
asc. node	694 May 08 j 02:17	25°♉59'05	
	694 May 11 j 08:46	0°♊	
evening rise	694 May 21 j 09:32	12°♊18'32	
	694 Jun 04 j 19:51	0°♋	
	694 Jun 29 j 08:16	0°♌	
	694 Jul 23 j 22:47	0°♍	
	694 Aug 17 j 17:06	0°♎	
desc. node	694 Aug 27 j 15:34	11°♎57'26	
	694 Sep 11 j 17:47	0°♏	
	694 Oct 07 j 05:23	0°♐	
	694 Nov 02 j 16:19	0°♑	
evening max el	694 Nov 18 j 13:43	16°♑52'46	47°22'19
	694 Dec 02 j 02:49	0°♒	
asc. node	694 Dec 18 j 18:48	13°♒13'01	
greatest brilliancy	694 Dec 29 j 06:10	18°♒43'51	-4.9m
retrograde	695 Jan 08 j 15:04	20°♒48'07	
evening set	695 Jan 25 j 14:41	15°♒08'14	
min. Earth dist.	695 Jan 28 j 14:54	13°♒17'14	0.27472 AU
inferior conj	695 Jan 29 j 12:23	12°♒43'34	8°12'10
minimum elong	695 Jan 29 j 05:31	12°♒54'20	8°11'26
morning rise	695 Feb 01 j 20:38	10°♒39'33	
direct	695 Feb 19 j 03:31	4°♒51'37	
greatest brilliancy	695 Feb 28 j 02:39	6°♒21'42	-4.8m
	695 Apr 03 j 10:11	0°♓	
desc. node	695 Apr 09 j 08:19	5°♓36'07	
morning max el	695 Apr 09 j 10:46	5°♓42'03	46°06'21
	695 May 03 j 01:02	0°♈	
	695 May 30 j 00:46	0°♉	
	695 Jun 24 j 22:44	0°♊	
	695 Jul 20 j 04:41	0°♋	
asc. node	695 Jul 31 j 11:41	13°♋37'34	
	695 Aug 13 j 22:11	0°♌	
	695 Sep 07 j 05:48	0°♍	
	695 Oct 01 j 06:35	0°♎	
morning set	695 Oct 03 j 22:11	3°♎19'19	
	695 Oct 25 j 03:43	0°♏	
superior conj	695 Nov 12 j 17:22	23°♏22'20	0°17'23
minimum elong	695 Nov 12 j 21:52	23°♏36'29	0°17'09
max. Earth dist.	695 Nov 12 j 18:09	23°♏24'46	1.71066 AU
	695 Nov 17 j 23:42	0°♐	
desc. node	695 Nov 20 j 01:13	2°♐35'49	
	695 Dec 11 j 20:04	0°♑	
evening rise	695 Dec 24 j 10:00	15°♑48'06	
	696 Jan 04 j 17:50	0°♒	
	696 Jan 28 j 18:29	0°♓	
	696 Feb 22 j 00:17	0°♈	
asc. node	696 Mar 12 j 04:34	23°♈27'04	
	696 Mar 17 j 14:12	0°♉	
	696 Apr 11 j 16:04	0°♊	
	696 May 07 j 12:16	0°♋	
	696 Jun 03 j 18:07	0°♌	
evening max el	696 Jun 22 j 06:58	18°♌43'37	45°31'51
desc. node	696 Jul 01 j 17:48	27°♌23'17	
	696 Jul 04 j 18:46	0°♍	

greatest brilliancy	696 Jul 31 j 14:30	16°♍50'53	-4.8m
retrograde	696 Aug 10 j 02:18	18°♍28'31	
evening set	696 Aug 28 j 02:34	12°♍26'48	
inferior conj	696 Aug 31 j 04:26	10°♍34'52	-8°45'19
minimum elong	696 Aug 31 j 06:06	10°♍32'19	8°45'16
min. Earth dist.	696 Aug 31 j 21:21	10°♍08'56	0.28028 AU
morning rise	696 Sep 03 j 09:27	8°♍37'52	
direct	696 Sep 21 j 09:32	2°♍31'02	
greatest brilliancy	696 Oct 02 j 12:09	4°♍48'47	-4.9m
asc. node	696 Oct 22 j 21:09	17°♍45'43	
	696 Nov 05 j 09:23	0°♎	
morning max el	696 Nov 11 j 01:33	5°♎39'19	46°49'43
	696 Dec 03 j 13:54	0°♏	
	696 Dec 29 j 09:12	0°♐	
	697 Jan 23 j 09:03	0°♑	
desc. node	697 Feb 11 j 10:45	23°♑09'43	
	697 Feb 17 j 01:27	0°♒	
	697 Mar 13 j 15:07	0°♓	
	697 Apr 07 j 04:02	0°♈	
	697 May 01 j 16:47	0°♉	
morning set	697 May 15 j 20:05	17°♉18'00	
	697 May 26 j 04:53	0°♊	
asc. node	697 Jun 04 j 14:02	11°♊30'20	
max. Earth dist.	697 Jun 19 j 03:55	29°♊24'44	1.73523 AU
	697 Jun 19 j 15:23	0°♋	
superior conj	697 Jun 21 j 05:46	1°♋58'04	0°38'07
minimum elong	697 Jun 20 j 22:50	1°♋36'44	0°37'49
	697 Jul 13 j 23:38	0°♌	
evening rise	697 Jul 27 j 00:15	16°♌05'46	
	697 Aug 07 j 06:01	0°♍	
	697 Aug 31 j 11:45	0°♎	
desc. node	697 Sep 24 j 03:36	29°♎14'49	
	697 Sep 24 j 18:14	0°♏	
	697 Oct 19 j 02:38	0°♐	
	697 Nov 12 j 14:43	0°♑	
	697 Dec 07 j 11:03	0°♒	
	698 Jan 02 j 03:10	0°♓	
asc. node	698 Jan 15 j 06:41	14°♓37'41	
evening max el	698 Jan 29 j 04:01	29°♓11'26	46°33'21
	698 Jan 29 j 23:25	0°♈	
greatest brilliancy	698 Mar 09 j 10:32	29°♈14'36	-4.8m
	698 Mar 11 j 15:00	0°♉	
retrograde	698 Mar 20 j 05:14	1°♉23'20	
	698 Mar 28 j 11:02	30°℞♈	
evening set	698 Apr 05 j 16:00	26°♈05'44	
inferior conj	698 Apr 10 j 12:22	23°♈06'01	5°41'17
minimum elong	698 Apr 10 j 21:53	22°♈50'58	5°39'11
min. Earth dist.	698 Apr 10 j 13:38	23°♈04'00	0.28776 AU
morning rise	698 Apr 16 j 04:08	19°♈39'16	
direct	698 May 01 j 22:51	14°♈51'03	
desc. node	698 May 06 j 20:05	15°♈18'14	
greatest brilliancy	698 May 11 j 20:54	16°♈38'39	-4.7m
	698 Jun 03 j 02:34	0°♉	
morning max el	698 Jun 19 j 18:13	14°♉40'37	45°44'19
	698 Jul 05 j 02:05	0°♊	
	698 Aug 01 j 14:03	0°♋	
	698 Aug 27 j 10:03	0°♌	
asc. node	698 Aug 27 j 23:39	0°♌40'22	
	698 Sep 21 j 07:21	0°♍	
	698 Oct 15 j 14:52	0°♎	
	698 Nov 08 j 14:58	0°♏	
	698 Dec 02 j 12:04	0°♐	
desc. node	698 Dec 17 j 12:58	18°♐54'33	
morning set	698 Dec 18 j 12:22	20°♐08'06	
	698 Dec 26 j 08:48	0°♑	
	699 Jan 19 j 06:37	0°♒	
superior conj	699 Jan 29 j 06:02	12°♒29'07	-1°19'29
minimum elong	699 Jan 28 j 21:53	12°♒03'40	1°19'20
max. Earth dist.	699 Feb 02 j 07:57	17°♒35'10	1.71734 AU
	699 Feb 12 j 06:34	0°♓	
	699 Mar 08 j 09:46	0°♈	
evening rise	699 Mar 10 j 06:13	2°♈17'39	
	699 Apr 01 j 17:15	0°♉	
asc. node	699 Apr 09 j 16:27	9°♉46'36	
	699 Apr 26 j 05:51	0°♊	
	699 May 21 j 00:27	0°♋	
	699 Jun 15 j 02:56	0°♌	
	699 Jul 10 j 17:36	0°♍	
desc. node	699 Jul 30 j 05:43	22°♍12'22	
	699 Aug 06 j 06:02	0°♎	
	699 Sep 03 j 19:27	0°♏	
evening max el	699 Sep 04 j 11:59	0°♏40'30	46°39'11
	699 Oct 13 j 06:44	0°♐	
greatest brilliancy	699 Oct 14 j 23:42	0°♐37'19	-4.9m
retrograde	699 Oct 24 j 09:47	2°♐16'38	
	699 Nov 04 j 01:21	30°℞♏	
evening set	699 Nov 07 j 23:45	28°♏06'33	
inferior conj	699 Nov 13 j 22:29	24°♏38'05	-1°39'56
minimum elong	699 Nov 14 j 02:16	24°♏32'20	1°38'43
min. Earth dist.	699 Nov 14 j 02:15	24°♏32'21	0.26409 AU
morning rise	699 Nov 20 j 04:35	20°♏59'54	
asc. node	699 Nov 20 j 08:55	20°♏54'13	
direct	699 Dec 04 j 07:57	17°♏01'21	
greatest brilliancy	699 Dec 14 j 14:48	19°♏01'49	-4.9m
	700 Jan 01 j 19:00	0°♐	
morning max el	700 Jan 23 j 18:40	20°♐00'37	46°48'49
	700 Feb 02 j 10:37	0°♑	
	700 Feb 29 j 14:23	0°♒	
desc. node	700 Mar 10 j 22:39	11°♒52'19	
	700 Mar 26 j 12:01	0°♓	
	700 Apr 20 j 20:51	0°♈	
	700 May 15 j 22:44	0°♉	
	700 Jun 09 j 19:18	0°♊	
asc. node	700 Jul 02 j 01:53	27°♊07'11	
	700 Jul 04 j 10:24	0°♋	
morning set	700 Jul 22 j 08:23	22°♋00'33	
	700 Jul 28 j 19:46	0°♌	
	700 Aug 22 j 00:04	0°♍	
max. Earth dist.	700 Aug 24 j 07:45	2°♍53'25	1.72275 AU
superior conj	700 Aug 28 j 01:42	7°♍33'43	1°24'38
minimum elong	700 Aug 28 j 02:22	7°♍35'47	1°24'38
	700 Sep 15 j 00:57	0°♎	
evening rise	700 Oct 05 j 08:21	25°♎24'44	
	700 Oct 09 j 00:19	0°♏	
desc. node	700 Oct 21 j 15:27	15°♏48'45	
	700 Nov 01 j 23:34	0°♐	
	700 Nov 25 j 23:45	0°♑	
	700 Dec 20 j 02:27	0°♒	
	701 Jan 13 j 10:51	0°♓	
	701 Feb 07 j 06:45	0°♈	
asc. node	701 Feb 11 j 18:39	5°♈20'13	
	701 Mar 05 j 00:38	0°♉	
	701 Apr 01 j 16:37	0°♊	
evening max el	701 Apr 09 j 22:54	8°♊13'00	45°29'17
	701 May 06 j 03:52	0°♋	
greatest brilliancy	701 May 17 j 17:58	6°♋01'16	-4.7m
retrograde	701 May 28 j 14:05	8°♋08'19	
desc. node	701 Jun 03 j 07:58	7°♋29'17	
evening set	701 Jun 12 j 19:02	3°♋43'17	
inferior conj	701 Jun 19 j 02:21	29°♊57'37	-3°35'19
minimum elong	701 Jun 18 j 19:01	0°♋09'04	3°33'21
min. Earth dist.	701 Jun 19 j 03:50	29°♊55'18	0.28956 AU

	701 Jun 19 j 00:50	30°℞♊		
morning rise	701 Jun 24 j 18:42	26°♊31'22		
direct	701 Jul 10 j 17:49	21°♊39'55		
greatest brilliancy	701 Jul 21 j 09:20	23°♊41'10	-4.7m	
	701 Aug 02 j 13:28	0°♋		
morning max el	701 Aug 29 j 00:06	22°♋09'11	46°07'37	
	701 Sep 05 j 19:57	0°♌		
asc. node	701 Sep 24 j 11:26	20°♌03'22		
	701 Oct 03 j 06:11	0°♍		
	701 Oct 28 j 17:21	0°♎		
	701 Nov 22 j 07:44	0°♏		
	701 Dec 16 j 13:04	0°♐		
	702 Jan 09 j 15:23	0°♑		
desc. node	702 Jan 14 j 00:56	5°♑28'40		
	702 Feb 02 j 17:35	0°♒		
	702 Feb 26 j 21:01	0°♓		
morning set	702 Mar 04 j 18:57	7°♓20'06		
	702 Mar 23 j 02:24	0°♈		
superior conj	702 Apr 12 j 01:23	24°♈37'54	-0°54'56	
minimum elong	702 Apr 12 j 10:48	25°♈06'56	0°54'36	
max. Earth dist.	702 Apr 14 j 02:15	27°♈08'25	1.73241 AU	
	702 Apr 16 j 10:00	0°♉		
asc. node	702 May 07 j 04:15	25°♉31'46		
	702 May 10 j 19:38	0°♊		
evening rise	702 May 19 j 03:44	10°♊13'48		
	702 Jun 04 j 06:50	0°♋		
	702 Jun 28 j 19:29	0°♌		
	702 Jul 23 j 10:25	0°♍		
	702 Aug 17 j 05:24	0°♎		
desc. node	702 Aug 26 j 17:41	11°♎25'47		
	702 Sep 11 j 07:05	0°♏		
	702 Oct 06 j 20:24	0°♐		
	702 Nov 02 j 10:50	0°♑		
evening max el	702 Nov 16 j 04:14	14°♑30'08	47°22'40	
	702 Dec 02 j 09:32	0°♒		
asc. node	702 Dec 17 j 20:55	11°♒46'32		
greatest brilliancy	702 Dec 26 j 20:31	16°♒20'24	-4.9m	
retrograde	703 Jan 06 j 05:54	18°♒25'20		
evening set	703 Jan 23 j 01:18	12°♒50'51		
min. Earth dist.	703 Jan 26 j 04:17	10°♒56'05	0.27411 AU	
inferior conj	703 Jan 27 j 02:25	10°♒21'29	8°04'13	
minimum elong	703 Jan 26 j 18:55	10°♒33'13	8°03'17	
morning rise	703 Jan 30 j 12:50	8°♒14'35		
direct	703 Feb 16 j 16:51	2°♒30'23		
greatest brilliancy	703 Feb 25 j 15:53	4°♒00'45	-4.8m	
	703 Apr 03 j 11:22	0°♓		
morning max el	703 Apr 07 j 01:54	3°♓26'53	46°07'40	
desc. node	703 Apr 08 j 10:21	4°♓45'53		
	703 May 02 j 17:40	0°♈		
	703 May 29 j 14:32	0°♉		
	703 Jun 24 j 11:08	0°♊		
	703 Jul 19 j 16:21	0°♋		
asc. node	703 Jul 30 j 13:50	13°♋09'30		
	703 Aug 13 j 09:26	0°♌		
	703 Sep 06 j 16:50	0°♍		
	703 Sep 30 j 17:32	0°♎		
morning set	703 Oct 01 j 12:01	0°♎57'54		
	703 Oct 24 j 14:41	0°♏		
superior conj	703 Nov 10 j 03:48	20°♏49'25	0°21'12	
minimum elong	703 Nov 10 j 09:13	21°♏06'26	0°20'57	
max. Earth dist.	703 Nov 10 j 03:12	20°♏47'32	1.71078 AU	
	703 Nov 17 j 10:44	0°♐		
desc. node	703 Nov 19 j 03:16	2°♐07'33		
	703 Dec 11 j 07:07	0°♑		
evening rise	703 Dec 21 j 19:58	13°♑14'05		
	704 Jan 04 j 04:55	0°♒		
	704 Jan 28 j 05:37	0°♓		
	704 Feb 21 j 11:35	0°♈		
asc. node	704 Mar 11 j 06:35	22°♈58'00		
	704 Mar 17 j 01:53	0°♉		
	704 Apr 11 j 04:32	0°♊		
	704 May 07 j 02:18	0°♋		
	704 Jun 03 j 11:48	0°♌		
evening max el	704 Jun 19 j 22:34	16°♌31'39	45°30'22	
desc. node	704 Jun 30 j 20:00	26°♌25'50		
	704 Jul 05 j 02:34	0°♍		
greatest brilliancy	704 Jul 29 j 02:38	14°♍32'53	-4.8m	
retrograde	704 Aug 07 j 16:13	16°♍11'34		
evening set	704 Aug 25 j 16:16	10°♍10'13		
inferior conj	704 Aug 28 j 18:41	8°♍17'14	-8°46'01	
minimum elong	704 Aug 28 j 19:28	8°♍16'00	8°46'01	
min. Earth dist.	704 Aug 29 j 10:33	7°♍52'51	0.28085 AU	
morning rise	704 Aug 31 j 22:31	6°♍21'49		
direct	704 Sep 19 j 01:04	0°♍12'49		
greatest brilliancy	704 Sep 30 j 02:03	2°♍29'01	-4.9m	
asc. node	704 Oct 21 j 23:10	16°♍39'12		
	704 Nov 05 j 09:22	0°♎		
morning max el	704 Nov 08 j 16:11	3°♎18'11	46°48'38	
	704 Dec 03 j 06:33	0°♏		
	704 Dec 28 j 23:19	0°♐		
	705 Jan 22 j 21:52	0°♑		
desc. node	705 Feb 10 j 12:48	22°♑38'56		
	705 Feb 16 j 13:27	0°♒		
	705 Mar 13 j 02:33	0°♓		
	705 Apr 06 j 15:05	0°♈		
	705 May 01 j 03:33	0°♉		
morning set	705 May 13 j 14:18	15°♉14'11		
	705 May 25 j 15:31	0°♊		
asc. node	705 Jun 03 j 16:10	11°♊04'21		
max. Earth dist.	705 Jun 17 j 01:21	27°♊30'28	1.73545 AU	
superior conj	705 Jun 19 j 00:22	29°♊55'01	0°35'19	
minimum elong	705 Jun 18 j 17:50	29°♊34'57	0°35'01	
	705 Jun 19 j 01:59	0°♋		
	705 Jul 13 j 10:18	0°♌		
evening rise	705 Jul 24 j 18:28	14°♌00'27		
	705 Aug 06 j 16:51	0°♍		
	705 Aug 30 j 22:52	0°♎		
desc. node	705 Sep 23 j 05:34	28°♎45'30		
	705 Sep 24 j 05:43	0°♏		
	705 Oct 18 j 14:35	0°♐		
	705 Nov 12 j 03:20	0°♑		
	705 Dec 07 j 00:45	0°♒		
	706 Jan 01 j 19:03	0°♓		
asc. node	706 Jan 14 j 08:51	13°♓54'58		
evening max el	706 Jan 26 j 19:41	26°♓56'11	46°35'56	
	706 Jan 29 j 21:37	0°♈		
greatest brilliancy	706 Mar 07 j 04:00	27°♈04'56	-4.8m	
retrograde	706 Mar 17 j 21:32	29°♈12'35		
evening set	706 Apr 03 j 11:05	23°♈51'27		
inferior conj	706 Apr 08 j 04:40	20°♈55'32	5°56'11	
minimum elong	706 Apr 08 j 14:16	20°♈40'20	5°54'10	
min. Earth dist.	706 Apr 08 j 05:31	20°♈54'11	0.28750 AU	
morning rise	706 Apr 13 j 17:48	17°♈32'11		
direct	706 Apr 29 j 14:52	12°♈41'13		
desc. node	706 May 05 j 22:04	13°♈25'52		
greatest brilliancy	706 May 09 j 11:28	14°♈27'28	-4.7m	
	706 Jun 03 j 10:22	0°♉		
morning max el	706 Jun 17 j 09:25	12°♉29'39	45°44'10	
	706 Jul 04 j 19:34	0°♊		
	706 Aug 01 j 04:00	0°♋		
	706 Aug 26 j 22:31	0°♌		

asc. node	706 Aug 27 j 01:39	0°♌09'20	
	706 Sep 20 j 19:06	0°♍	
	706 Oct 15 j 02:16	0°♎	
	706 Nov 08 j 02:09	0°♏	
	706 Dec 01 j 23:07	0°♐	
morning set	706 Dec 15 j 21:58	17°♐32'52	
desc. node	706 Dec 16 j 15:08	18°♐26'52	
	706 Dec 25 j 19:45	0°♑	
	707 Jan 18 j 17:30	0°♒	
superior conj	707 Jan 26 j 16:57	9°♒59'12	-1°17'58
minimum elong	707 Jan 26 j 08:04	9°♒31'23	1°17'47
max. Earth dist.	707 Jan 30 j 18:44	15°♒04'56	1.71681 AU
	707 Feb 11 j 17:25	0°♓	
evening rise	707 Mar 07 j 19:33	29°♓56'45	
	707 Mar 07 j 20:36	0°♈	
	707 Apr 01 j 04:07	0°♉	
asc. node	707 Apr 08 j 18:29	9°♉19'26	
	707 Apr 25 j 16:53	0°♊	
	707 May 20 j 11:53	0°♋	
	707 Jun 14 j 15:08	0°♌	
	707 Jul 10 j 07:13	0°♍	
desc. node	707 Jul 29 j 07:45	21°♍35'00	
	707 Aug 05 j 22:27	0°♎	
evening max el	707 Sep 02 j 00:06	28°♎15'05	46°36'24
	707 Sep 03 j 19:21	0°♏	
greatest brilliancy	707 Oct 12 j 13:21	28°♏10'15	-4.9m
retrograde	707 Oct 21 j 21:01	29°♏47'46	
evening set	707 Nov 05 j 13:32	25°♏35'19	
inferior conj	707 Nov 11 j 10:32	22°♏09'38	-2°04'01
minimum elong	707 Nov 11 j 15:11	22°♏02'33	2°02'33
min. Earth dist.	707 Nov 11 j 16:21	22°♏00'47	0.26430 AU
morning rise	707 Nov 17 j 16:30	18°♏31'23	
asc. node	707 Nov 19 j 11:04	17°♏37'36	
direct	707 Dec 01 j 19:44	14°♏32'10	
greatest brilliancy	707 Dec 12 j 05:35	16°♏35'08	-4.9m
	708 Jan 02 j 09:11	0°♐	
morning max el	708 Jan 21 j 07:03	17°♐32'55	46°49'54
	708 Feb 02 j 06:11	0°♑	
	708 Feb 29 j 05:33	0°♒	
desc. node	708 Mar 10 j 00:41	11°♒16'58	
	708 Mar 26 j 01:13	0°♓	
	708 Apr 20 j 08:58	0°♈	
	708 May 15 j 10:09	0°♉	
	708 Jun 09 j 06:17	0°♊	
asc. node	708 Jul 01 j 04:04	26°♊41'02	
	708 Jul 03 j 21:07	0°♋	
morning set	708 Jul 20 j 02:05	19°♋54'18	
	708 Jul 28 j 06:24	0°♌	
	708 Aug 21 j 10:44	0°♍	
max. Earth dist.	708 Aug 22 j 01:39	0°♍46'24	1.72335 AU
superior conj	708 Aug 25 j 18:18	5°♍22'30	1°24'40
minimum elong	708 Aug 25 j 18:13	5°♍22'16	1°24'41
	708 Sep 14 j 11:45	0°♎	
evening rise	708 Oct 02 j 21:27	23°♎01'20	
	708 Oct 08 j 11:17	0°♏	
desc. node	708 Oct 20 j 17:32	15°♏20'36	
	708 Nov 01 j 10:44	0°♐	
	708 Nov 25 j 11:08	0°♑	
	708 Dec 19 j 14:07	0°♒	
	709 Jan 12 j 22:57	0°♓	
	709 Feb 06 j 19:41	0°♈	
asc. node	709 Feb 10 j 20:39	4°♈47'16	
	709 Mar 04 j 15:19	0°♉	
	709 Apr 01 j 12:02	0°♊	
evening max el	709 Apr 07 j 14:16	6°♊01'21	45°30'46
	709 May 07 j 07:54	0°♋	
greatest brilliancy	709 May 15 j 09:23	3°♋52'19	-4.7m
retrograde	709 May 26 j 06:50	6°♋00'49	
desc. node	709 Jun 02 j 10:12	5°♋00'08	
evening set	709 Jun 10 j 10:25	1°♋36'32	
	709 Jun 13 j 05:51	30°℞♊	
inferior conj	709 Jun 16 j 18:48	27°♊49'33	-3°17'12
minimum elong	709 Jun 16 j 11:58	28°♊00'10	3°15'20
min. Earth dist.	709 Jun 16 j 20:13	27°♊47'19	0.28963 AU
morning rise	709 Jun 22 j 13:16	24°♊20'32	
direct	709 Jul 08 j 10:09	19°♊31'32	
greatest brilliancy	709 Jul 19 j 01:50	21°♊33'11	-4.7m
	709 Aug 03 j 09:27	0°♋	
morning max el	709 Aug 26 j 16:18	19°♋58'39	46°06'16
	709 Sep 05 j 14:58	0°♌	
asc. node	709 Sep 23 j 13:31	19°♌25'26	
	709 Oct 02 j 20:53	0°♍	
	709 Oct 28 j 06:24	0°♎	
	709 Nov 21 j 19:58	0°♏	
	709 Dec 16 j 00:51	0°♐	
	710 Jan 09 j 02:51	0°♑	
desc. node	710 Jan 13 j 03:01	4°♑59'39	
	710 Feb 02 j 04:48	0°♒	
	710 Feb 26 j 08:01	0°♓	
morning set	710 Mar 02 j 08:16	4°♓58'38	
	710 Mar 22 j 13:12	0°♈	
superior conj	710 Apr 09 j 17:32	22°♈26'41	-0°57'29
minimum elong	710 Apr 10 j 03:08	22°♈56'16	0°57'08
max. Earth dist.	710 Apr 11 j 20:48	25°♈04'40	1.73204 AU
	710 Apr 15 j 20:43	0°♉	
asc. node	710 May 06 j 06:25	25°♉05'27	
	710 May 10 j 06:22	0°♊	
evening rise	710 May 16 j 22:05	8°♊09'58	
	710 Jun 03 j 17:41	0°♋	
	710 Jun 28 j 06:35	0°♌	
	710 Jul 22 j 21:56	0°♍	
	710 Aug 16 j 17:34	0°♎	
desc. node	710 Aug 25 j 19:42	10°♎54'18	
	710 Sep 10 j 20:20	0°♏	
	710 Oct 06 j 11:29	0°♐	
	710 Nov 02 j 05:49	0°♑	
evening max el	710 Nov 13 j 19:31	12°♑09'21	47°22'37
	710 Dec 02 j 18:58	0°♒	
asc. node	710 Dec 16 j 23:04	10°♒16'20	
greatest brilliancy	710 Dec 24 j 10:17	13°♒55'17	-4.9m
retrograde	711 Jan 03 j 20:41	16°♒00'56	
evening set	711 Jan 20 j 11:29	10°♒32'11	
min. Earth dist.	711 Jan 23 j 17:16	8°♒33'30	0.27347 AU
inferior conj	711 Jan 24 j 16:08	7°♒57'51	7°55'12
minimum elong	711 Jan 24 j 08:03	8°♒10'26	7°54'07
morning rise	711 Jan 28 j 04:59	5°♒47'41	
direct	711 Feb 14 j 06:24	0°♒07'49	
greatest brilliancy	711 Feb 23 j 04:29	1°♒37'58	-4.8m
	711 Apr 03 j 11:30	0°♓	
morning max el	711 Apr 04 j 17:00	1°♓11'16	46°09'07
desc. node	711 Apr 07 j 12:27	3°♓56'24	
	711 May 02 j 10:00	0°♈	
	711 May 29 j 04:10	0°♉	
	711 Jun 23 j 23:26	0°♊	
	711 Jul 19 j 03:57	0°♋	
asc. node	711 Jul 29 j 15:47	12°♋40'53	
	711 Aug 12 j 20:38	0°♌	
	711 Sep 06 j 03:50	0°♍	
morning set	711 Sep 29 j 02:30	28°♍38'39	
	711 Sep 30 j 04:28	0°♎	
	711 Oct 24 j 01:39	0°♏	

superior conj	711 Nov 07 j 14:49	18°♏18'24	0°24'56
minimum elong	711 Nov 07 j 21:04	18°♏38'04	0°24'39
max. Earth dist.	711 Nov 07 j 11:26	18°♏07'45	1.71094 AU
	711 Nov 16 j 21:45	0°♐	
desc. node	711 Nov 18 j 05:27	1°♐39'43	
	711 Dec 10 j 18:13	0°♑	
evening rise	711 Dec 19 j 05:58	10°♑39'54	
	712 Jan 03 j 16:05	0°♒	
	712 Jan 27 j 16:54	0°♓	
	712 Feb 20 j 23:05	0°♈	
asc. node	712 Mar 10 j 08:38	22°♈28'27	
	712 Mar 16 j 13:48	0°♉	
	712 Apr 10 j 17:14	0°♊	
	712 May 06 j 16:38	0°♋	
	712 Jun 03 j 06:03	0°♌	
evening max el	712 Jun 17 j 13:46	14°♌18'30	45°28'59
desc. node	712 Jun 29 j 22:02	25°♌26'34	
	712 Jul 05 j 13:14	0°♍	
greatest brilliancy	712 Jul 26 j 15:40	12°♍16'12	-4.7m
retrograde	712 Aug 05 j 06:00	13°♍55'15	
evening set	712 Aug 23 j 05:55	7°♍55'00	
inferior conj	712 Aug 26 j 09:14	6°♍00'22	-8°45'58
minimum elong	712 Aug 26 j 09:09	6°♍00'29	8°45'58
min. Earth dist.	712 Aug 27 j 00:21	5°♍37'05	0.28137 AU
morning rise	712 Aug 29 j 12:14	4°♍05'55	
	712 Sep 06 j 11:35	30°℞♌	
direct	712 Sep 16 j 16:24	27°♌55'23	
	712 Sep 27 j 05:51	0°♍	
greatest brilliancy	712 Sep 27 j 16:30	0°♍10'13	-4.8m
asc. node	712 Oct 21 j 01:17	15°♍34'43	
	712 Nov 05 j 08:19	0°♎	
morning max el	712 Nov 06 j 06:00	0°♎54'58	46°47'36
	712 Dec 02 j 22:57	0°♏	
	712 Dec 28 j 13:22	0°♐	
	713 Jan 22 j 10:44	0°♑	
desc. node	713 Feb 09 j 14:47	22°♑07'30	
	713 Feb 16 j 01:35	0°♒	
	713 Mar 12 j 14:12	0°♓	
	713 Apr 06 j 02:23	0°♈	
	713 Apr 30 j 14:36	0°♉	
morning set	713 May 11 j 08:16	13°♉08'46	
	713 May 25 j 02:24	0°♊	
asc. node	713 Jun 02 j 18:16	10°♊37'32	
max. Earth dist.	713 Jun 14 j 21:32	25°♊31'48	1.73561 AU
superior conj	713 Jun 16 j 18:52	27°♊51'07	0°32'28
minimum elong	713 Jun 16 j 12:47	27°♊32'23	0°32'11
	713 Jun 18 j 12:48	0°♋	
	713 Jul 12 j 21:11	0°♌	
evening rise	713 Jul 22 j 12:49	11°♌54'59	
	713 Aug 06 j 03:55	0°♍	
	713 Aug 30 j 10:13	0°♎	
desc. node	713 Sep 22 j 07:41	28°♎15'56	
	713 Sep 23 j 17:26	0°♏	
	713 Oct 18 j 02:47	0°♐	
	713 Nov 11 j 16:11	0°♑	
	713 Dec 06 j 14:44	0°♒	
	714 Jan 01 j 11:24	0°♓	
asc. node	714 Jan 13 j 10:48	13°♓10'38	
evening max el	714 Jan 24 j 10:18	24°♓37'26	46°38'17
	714 Jan 29 j 21:03	0°♈	
greatest brilliancy	714 Mar 04 j 21:32	24°♈54'01	-4.8m
retrograde	714 Mar 15 j 13:24	27°♈00'32	
evening set	714 Apr 01 j 06:07	21°♈35'37	
inferior conj	714 Apr 05 j 20:54	18°♈43'43	6°10'41
minimum elong	714 Apr 06 j 06:31	18°♈28'28	6°08'43
min. Earth dist.	714 Apr 05 j 21:37	18°♈42'36	0.28728 AU
morning rise	714 Apr 11 j 07:14	15°♈24'00	
direct	714 Apr 27 j 06:20	10°♈29'52	
desc. node	714 May 05 j 00:15	11°♈36'21	
greatest brilliancy	714 May 07 j 02:38	12°♈15'27	-4.7m
	714 Jun 03 j 16:26	0°♉	
morning max el	714 Jun 15 j 00:11	10°♉16'22	45°44'13
	714 Jul 04 j 13:05	0°♊	
	714 Jul 31 j 18:07	0°♋	
asc. node	714 Aug 26 j 03:44	29°♋37'50	
	714 Aug 26 j 11:11	0°♌	
	714 Sep 20 j 07:04	0°♍	
	714 Oct 14 j 13:53	0°♎	
	714 Nov 07 j 13:35	0°♏	
	714 Dec 01 j 10:26	0°♐	
morning set	714 Dec 13 j 07:52	14°♐57'41	
desc. node	714 Dec 15 j 17:11	17°♐57'53	
	714 Dec 25 j 06:58	0°♑	
	715 Jan 18 j 04:38	0°♒	
superior conj	715 Jan 24 j 04:08	7°♒29'14	-1°16'17
minimum elong	715 Jan 23 j 18:33	6°♒59'15	1°16'04
max. Earth dist.	715 Jan 28 j 03:42	12°♒28'11	1.71629 AU
	715 Feb 11 j 04:30	0°♓	
evening rise	715 Mar 05 j 08:59	27°♓35'18	
	715 Mar 07 j 07:41	0°♈	
	715 Mar 31 j 15:17	0°♉	
asc. node	715 Apr 07 j 20:38	8°♉51'37	
	715 Apr 25 j 04:16	0°♊	
	715 May 19 j 23:43	0°♋	
	715 Jun 14 j 03:46	0°♌	
	715 Jul 09 j 21:19	0°♍	
desc. node	715 Jul 28 j 09:46	20°♍56'19	
	715 Aug 05 j 15:31	0°♎	
evening max el	715 Aug 30 j 12:05	25°♎48'49	46°33'48
	715 Sep 03 j 20:44	0°♏	
greatest brilliancy	715 Oct 10 j 02:33	25°♏42'17	-4.9m
retrograde	715 Oct 19 j 08:40	27°♏18'51	
evening set	715 Nov 03 j 03:36	23°♏03'19	
inferior conj	715 Nov 08 j 22:41	19°♏40'40	-2°27'51
minimum elong	715 Nov 09 j 04:11	19°♏32'19	2°26'07
min. Earth dist.	715 Nov 09 j 06:16	19°♏29'10	0.26458 AU
morning rise	715 Nov 15 j 04:20	16°♏02'57	
asc. node	715 Nov 18 j 13:11	14°♏25'15	
direct	715 Nov 29 j 07:57	12°♏02'17	
greatest brilliancy	715 Dec 09 j 20:16	14°♏07'45	-4.9m
	716 Jan 02 j 20:08	0°♐	
morning max el	716 Jan 18 j 20:30	15°♐07'02	46°51'01
	716 Feb 02 j 01:31	0°♑	
	716 Feb 28 j 20:48	0°♒	
desc. node	716 Mar 09 j 02:48	10°♒41'23	
	716 Mar 25 j 14:37	0°♓	
	716 Apr 19 j 21:18	0°♈	
	716 May 14 j 21:51	0°♉	
	716 Jun 08 j 17:35	0°♊	
asc. node	716 Jun 30 j 06:02	26°♊13'02	
	716 Jul 03 j 08:12	0°♋	
morning set	716 Jul 17 j 19:41	17°♋46'44	
	716 Jul 27 j 17:23	0°♌	
max. Earth dist.	716 Aug 19 j 20:08	28°♌40'19	1.72388 AU
	716 Aug 20 j 21:45	0°♍	
superior conj	716 Aug 23 j 10:48	3°♍10'06	1°24'35
minimum elong	716 Aug 23 j 09:59	3°♍07'32	1°24'35
	716 Sep 13 j 22:51	0°♎	
evening rise	716 Sep 30 j 10:38	20°♎37'23	
	716 Oct 07 j 22:32	0°♏	
desc. node	716 Oct 19 j 19:40	14°♏51'41	

	716 Oct 31 j 22:11	0°♐	
	716 Nov 24 j 22:51	0°♑	
	716 Dec 19 j 02:09	0°♒	
	717 Jan 12 j 11:26	0°♓	
	717 Feb 06 j 09:00	0°♈	
asc. node	717 Feb 09 j 22:46	4°♈13'36	
	717 Mar 04 j 06:30	0°♉	
	717 Apr 01 j 08:24	0°♊	
evening max el	717 Apr 05 j 06:18	3°♊50'32	45°32'17
	717 May 09 j 01:27	0°♋	
greatest brilliancy	717 May 13 j 00:32	1°♋42'12	-4.7m
retrograde	717 May 23 j 23:43	3°♋52'07	
desc. node	717 Jun 01 j 12:10	2°♋25'30	
	717 Jun 07 j 02:21	30°℞♊	
evening set	717 Jun 08 j 01:56	29°♊28'36	
inferior conj	717 Jun 14 j 11:09	25°♊40'14	-2°58'43
minimum elong	717 Jun 14 j 04:53	25°♊49'59	2°56'59
min. Earth dist.	717 Jun 14 j 12:15	25°♊38'31	0.28971 AU
morning rise	717 Jun 20 j 07:41	22°♊08'38	
direct	717 Jul 06 j 02:59	17°♊22'04	
greatest brilliancy	717 Jul 16 j 17:47	19°♊23'28	-4.7m
	717 Aug 04 j 00:54	0°♋	
morning max el	717 Aug 24 j 08:52	17°♋48'04	46°04'54
	717 Sep 05 j 09:55	0°♌	
asc. node	717 Sep 22 j 15:40	18°♌46'59	
	717 Oct 02 j 11:45	0°♍	
	717 Oct 27 j 19:38	0°♎	
	717 Nov 21 j 08:23	0°♏	
	717 Dec 15 j 12:49	0°♐	
	718 Jan 08 j 14:32	0°♑	
desc. node	718 Jan 12 j 04:57	4°♑29'27	
	718 Feb 01 j 16:15	0°♒	
	718 Feb 25 j 19:15	0°♓	
morning set	718 Feb 27 j 21:31	2°♓36'01	
	718 Mar 22 j 00:16	0°♈	
superior conj	718 Apr 07 j 09:40	20°♈14'35	-0°59'56
minimum elong	718 Apr 07 j 19:23	20°♈44'31	0°59'35
max. Earth dist.	718 Apr 09 j 16:59	23°♈05'06	1.73162 AU
	718 Apr 15 j 07:40	0°♉	
asc. node	718 May 05 j 08:31	24°♉38'15	
	718 May 09 j 17:19	0°♊	
evening rise	718 May 14 j 16:29	6°♊05'33	
	718 Jun 03 j 04:46	0°♋	
	718 Jun 27 j 17:57	0°♌	
	718 Jul 22 j 09:45	0°♍	
	718 Aug 16 j 06:06	0°♎	
desc. node	718 Aug 24 j 21:47	10°♎22'00	
	718 Sep 10 j 09:59	0°♏	
	718 Oct 06 j 03:04	0°♐	
	718 Nov 02 j 01:35	0°♑	
evening max el	718 Nov 11 j 11:04	9°♑48'39	47°22'33
	718 Dec 03 j 07:55	0°♒	
asc. node	718 Dec 16 j 01:00	8°♒42'02	
greatest brilliancy	718 Dec 22 j 00:08	11°♒29'40	-4.9m
retrograde	719 Jan 01 j 11:17	13°♒35'33	
evening set	719 Jan 17 j 21:35	8°♒12'53	
min. Earth dist.	719 Jan 21 j 06:15	6°♒09'58	0.27283 AU
inferior conj	719 Jan 22 j 05:45	5°♒33'20	7°45'14
minimum elong	719 Jan 21 j 21:10	5°♒46'42	7°43'59
morning rise	719 Jan 25 j 21:11	3°♒19'32	
	719 Feb 01 j 07:47	30°℞♑	
direct	719 Feb 11 j 20:09	27°♑44'33	
greatest brilliancy	719 Feb 20 j 17:02	29°♑14'08	-4.8m
	719 Feb 22 j 20:30	0°♒	
morning max el	719 Apr 02 j 07:25	28°♒53'12	46°10'31
	719 Apr 03 j 10:48	0°♓	
desc. node	719 Apr 06 j 14:33	3°♓07'13	
	719 May 02 j 02:16	0°♈	
	719 May 28 j 17:50	0°♉	
	719 Jun 23 j 11:50	0°♊	
	719 Jul 18 j 15:39	0°♋	
asc. node	719 Jul 28 j 17:56	12°♋12'31	
	719 Aug 12 j 07:58	0°♌	
	719 Sep 05 j 14:59	0°♍	
morning set	719 Sep 26 j 16:43	26°♍18'01	
	719 Sep 29 j 15:35	0°♎	
	719 Oct 23 j 12:48	0°♏	
max. Earth dist.	719 Nov 04 j 15:55	15°♏15'44	1.71109 AU
superior conj	719 Nov 05 j 01:37	15°♏46'14	0°28'39
minimum elong	719 Nov 05 j 08:39	16°♏08'21	0°28'19
	719 Nov 16 j 08:57	0°♐	
desc. node	719 Nov 17 j 07:27	1°♐10'48	
	719 Dec 10 j 05:27	0°♑	
evening rise	719 Dec 16 j 15:36	8°♑04'09	
	720 Jan 03 j 03:22	0°♒	
	720 Jan 27 j 04:18	0°♓	
	720 Feb 20 j 10:42	0°♈	
asc. node	720 Mar 09 j 10:48	21°♈58'53	
	720 Mar 16 j 01:51	0°♉	
	720 Apr 10 j 06:06	0°♊	
	720 May 06 j 07:11	0°♋	
	720 Jun 03 j 00:46	0°♌	
evening max el	720 Jun 15 j 04:02	12°♌03'06	45°27'41
desc. node	720 Jun 29 j 00:02	24°♌25'54	
	720 Jul 06 j 03:31	0°♍	
greatest brilliancy	720 Jul 24 j 05:01	9°♍59'58	-4.7m
retrograde	720 Aug 02 j 19:27	11°♍39'15	
evening set	720 Aug 20 j 19:09	5°♍40'36	
inferior conj	720 Aug 23 j 23:49	3°♍43'48	-8°44'59
minimum elong	720 Aug 23 j 22:53	3°♍45'15	8°44'58
min. Earth dist.	720 Aug 24 j 14:28	3°♍21'13	0.28192 AU
morning rise	720 Aug 27 j 02:27	1°♍49'38	
	720 Aug 30 j 06:47	30°℞♌	
direct	720 Sep 14 j 07:16	25°♌38'00	
greatest brilliancy	720 Sep 25 j 07:36	27°♌52'16	-4.8m
	720 Sep 29 j 23:43	0°♍	
asc. node	720 Oct 20 j 03:23	14°♍31'35	
morning max el	720 Nov 03 j 19:05	28°♍29'32	46°46'27
	720 Nov 05 j 06:31	0°♎	
	720 Dec 02 j 15:12	0°♏	
	720 Dec 28 j 03:23	0°♐	
	721 Jan 21 j 23:34	0°♑	
desc. node	721 Feb 08 j 16:59	21°♑36'49	
	721 Feb 15 j 13:40	0°♒	
	721 Mar 12 j 01:47	0°♓	
	721 Apr 05 j 13:37	0°♈	
	721 Apr 30 j 01:36	0°♉	
morning set	721 May 09 j 02:07	11°♉03'02	
	721 May 24 j 13:14	0°♊	
asc. node	721 Jun 01 j 20:16	10°♊10'30	
max. Earth dist.	721 Jun 12 j 16:39	23°♊29'57	1.73575 AU
superior conj	721 Jun 14 j 13:27	25°♊47'38	0°29'33
minimum elong	721 Jun 14 j 07:49	25°♊30'19	0°29'18
	721 Jun 17 j 23:34	0°♋	
	721 Jul 12 j 07:59	0°♌	
evening rise	721 Jul 20 j 07:21	9°♌50'26	
	721 Aug 05 j 14:54	0°♍	
	721 Aug 29 j 21:29	0°♎	
desc. node	721 Sep 21 j 09:49	27°♎46'41	
	721 Sep 23 j 05:06	0°♏	
	721 Oct 17 j 14:58	0°♐	

	721 Nov 11 j 05:06	0°♉		
	721 Dec 06 j 04:52	0°♒		
	722 Jan 01 j 04:03	0°♓		
asc. node	722 Jan 12 j 12:56	12°♓26'11		
evening max el	722 Jan 21 j 23:56	22°♓16'02	46°40'50	
	722 Jan 29 j 21:36	0°♈		
greatest brilliancy	722 Mar 02 j 14:44	22°♈42'32	-4.8m	
retrograde	722 Mar 13 j 05:15	24°♈48'28		
evening set	722 Mar 30 j 00:59	19°♈19'26		
inferior conj	722 Apr 03 j 13:01	16°♈31'47	6°24'37	
minimum elong	722 Apr 03 j 22:36	16°♈16'34	6°22'44	
min. Earth dist.	722 Apr 03 j 13:34	16°♈30'53	0.28704 AU	
morning rise	722 Apr 08 j 20:26	13°♈16'02		
direct	722 Apr 24 j 21:21	8°♈18'14		
desc. node	722 May 04 j 02:17	9°♈50'46		
greatest brilliancy	722 May 04 j 17:57	10°♈03'47	-4.7m	
	722 Jun 03 j 20:23	0°♉		
morning max el	722 Jun 12 j 15:13	8°♉04'02	45°44'24	
	722 Jul 04 j 06:02	0°♊		
	722 Jul 31 j 07:55	0°♋		
asc. node	722 Aug 25 j 05:53	29°♋07'17		
	722 Aug 25 j 23:35	0°♌		
	722 Sep 19 j 18:47	0°♍		
	722 Oct 14 j 01:16	0°♎		
	722 Nov 07 j 00:48	0°♏		
	722 Nov 30 j 21:33	0°♐		
morning set	722 Dec 10 j 17:35	12°♐22'22		
desc. node	722 Dec 14 j 19:12	17°♐29'22		
	722 Dec 24 j 18:01	0°♑		
	723 Jan 17 j 15:38	0°♒		
superior conj	723 Jan 21 j 14:43	4°♒57'47	-1°14'25	
minimum elong	723 Jan 21 j 04:31	4°♒25'51	1°14'10	
max. Earth dist.	723 Jan 25 j 09:25	9°♒41'38	1.71579 AU	
	723 Feb 10 j 15:27	0°♓		
evening rise	723 Mar 02 j 21:50	25°♓12'31		
	723 Mar 06 j 18:36	0°♈		
	723 Mar 31 j 02:16	0°♉		
asc. node	723 Apr 06 j 22:40	8°♉24'04		
	723 Apr 24 j 15:28	0°♊		
	723 May 19 j 11:22	0°♋		
	723 Jun 13 j 16:16	0°♌		
	723 Jul 09 j 11:19	0°♍		
desc. node	723 Jul 27 j 11:57	20°♍18'32		
	723 Aug 05 j 08:37	0°♎		
evening max el	723 Aug 28 j 00:44	23°♎25'27	46°31'21	
	723 Sep 03 j 23:04	0°♏		
greatest brilliancy	723 Oct 07 j 15:06	23°♏15'06	-4.9m	
retrograde	723 Oct 16 j 20:58	24°♏51'29		
evening set	723 Oct 31 j 17:55	20°♏32'33		
inferior conj	723 Nov 06 j 10:54	17°♏13'00	-2°51'11	
minimum elong	723 Nov 06 j 17:12	17°♏03'27	2°49'14	
min. Earth dist.	723 Nov 06 j 19:47	16°♏59'33	0.26491 AU	
morning rise	723 Nov 12 j 16:02	13°♏36'22		
asc. node	723 Nov 17 j 15:08	11°♏19'41		
direct	723 Nov 26 j 20:46	9°♏33'51		
greatest brilliancy	723 Dec 07 j 10:23	11°♏41'04	-4.9m	
	724 Jan 03 j 03:47	0°♐		
morning max el	724 Jan 16 j 10:52	12°♐44'21	46°51'51	
	724 Feb 01 j 20:03	0°♑		
	724 Feb 28 j 11:37	0°♒		
desc. node	724 Mar 08 j 04:53	10°♒06'31		
	724 Mar 25 j 03:41	0°♓		
	724 Apr 19 j 09:21	0°♈		
	724 May 14 j 09:15	0°♉		
	724 Jun 08 j 04:33	0°♊		
asc. node	724 Jun 29 j 08:09	25°♊46'32		
	724 Jul 02 j 18:58	0°♋		
morning set	724 Jul 15 j 13:17	15°♋40'13		
	724 Jul 27 j 04:04	0°♌		
max. Earth dist.	724 Aug 17 j 13:32	26°♌31'48	1.72440 AU	
	724 Aug 20 j 08:27	0°♍		
superior conj	724 Aug 21 j 03:26	0°♍59'05	1°24'22	
minimum elong	724 Aug 21 j 01:53	0°♍54'13	1°24'21	
	724 Sep 13 j 09:39	0°♎		
evening rise	724 Sep 28 j 00:05	18°♎15'19		
	724 Oct 07 j 09:28	0°♏		
desc. node	724 Oct 18 j 21:39	14°♏23'25		
	724 Oct 31 j 09:18	0°♐		
	724 Nov 24 j 10:13	0°♑		
	724 Dec 18 j 13:49	0°♒		
	725 Jan 11 j 23:35	0°♓		
	725 Feb 05 j 22:04	0°♈		
asc. node	725 Feb 09 j 00:52	3°♈40'45		
	725 Mar 03 j 21:33	0°♉		
	725 Apr 01 j 05:08	0°♊		
evening max el	725 Apr 02 j 22:58	1°♊42'00	45°33'52	
greatest brilliancy	725 May 10 j 16:18	29°♊33'41	-4.7m	
	725 May 11 j 21:42	0°♋		
retrograde	725 May 21 j 16:36	1°♋44'11		
	725 May 31 j 00:50	30°℞♊		
desc. node	725 May 31 j 14:11	29°♊47'22		
evening set	725 Jun 05 j 17:42	27°♊21'33		
inferior conj	725 Jun 12 j 03:30	23°♊31'53	-2°40'01	
minimum elong	725 Jun 11 j 21:50	23°♊40'43	2°38'26	
min. Earth dist.	725 Jun 12 j 04:12	23°♊30'47	0.28974 AU	
morning rise	725 Jun 18 j 01:56	19°♊57'45		
direct	725 Jul 03 j 19:55	15°♊13'50		
greatest brilliancy	725 Jul 14 j 09:04	17°♊14'04	-4.7m	
	725 Aug 04 j 11:54	0°♋		
morning max el	725 Aug 22 j 01:06	15°♋37'54	46°03'26	
	725 Sep 05 j 03:58	0°♌		
asc. node	725 Sep 21 j 17:41	18°♌09'34		
	725 Oct 02 j 02:04	0°♍		
	725 Oct 27 j 08:25	0°♎		
	725 Nov 20 j 20:24	0°♏		
	725 Dec 15 j 00:22	0°♐		
	726 Jan 08 j 01:47	0°♑		
desc. node	726 Jan 11 j 07:09	4°♑01'22		
	726 Feb 01 j 03:15	0°♒		
morning set	726 Feb 25 j 10:48	0°♓14'43		
	726 Feb 25 j 06:04	0°♓		
	726 Mar 21 j 10:57	0°♈		
superior conj	726 Apr 05 j 01:38	18°♈02'56	-1°02'17	
minimum elong	726 Apr 05 j 11:24	18°♈33'04	1°01'58	
max. Earth dist.	726 Apr 07 j 13:50	21°♈08'38	1.73122 AU	
	726 Apr 14 j 18:17	0°♉		
asc. node	726 May 04 j 10:29	24°♉11'41		
	726 May 09 j 03:57	0°♊		
evening rise	726 May 12 j 10:33	4°♊01'09		
	726 Jun 02 j 15:31	0°♋		
	726 Jun 27 j 04:58	0°♌		
	726 Jul 21 j 21:14	0°♍		
	726 Aug 15 j 18:21	0°♎		
desc. node	726 Aug 23 j 23:53	9°♎50'41		
	726 Sep 09 j 23:25	0°♏		
	726 Oct 05 j 18:32	0°♐		
	726 Nov 01 j 21:34	0°♑		
evening max el	726 Nov 09 j 02:28	7°♑28'29	47°22'20	
	726 Dec 04 j 00:33	0°♒		
asc. node	726 Dec 15 j 03:10	7°♒05'45		
greatest brilliancy	726 Dec 19 j 14:38	9°♒05'56	-4.9m	

retrograde	726 Dec 30 j 01:35	11°♒11'09	
evening set	727 Jan 15 j 07:44	5°♒55'01	
min. Earth dist.	727 Jan 18 j 19:35	3°♒47'20	0.27215 AU
inferior conj	727 Jan 19 j 19:24	3°♒10'10	7°34'29
minimum elong	727 Jan 19 j 10:23	3°♒24'16	7°33'03
morning rise	727 Jan 23 j 13:29	0°♒52'30	
	727 Jan 25 j 02:00	30°℞♑	
direct	727 Feb 09 j 09:37	25°♑22'49	
greatest brilliancy	727 Feb 18 j 05:54	26°♑51'52	-4.8m
	727 Feb 25 j 13:00	0°♒	
morning max el	727 Mar 30 j 20:49	26°♒33'52	46°11'53
	727 Apr 03 j 08:38	0°♓	
desc. node	727 Apr 05 j 16:35	2°♓19'59	
	727 May 01 j 17:51	0°♈	
	727 May 28 j 07:03	0°♉	
	727 Jun 22 j 23:52	0°♊	
	727 Jul 18 j 03:01	0°♋	
asc. node	727 Jul 27 j 20:03	11°♋45'01	
	727 Aug 11 j 18:58	0°♌	
	727 Sep 05 j 01:49	0°♍	
morning set	727 Sep 24 j 06:57	23°♍58'31	
	727 Sep 29 j 02:23	0°♎	
	727 Oct 22 j 23:39	0°♏	
max. Earth dist.	727 Nov 01 j 19:09	12°♏20'40	1.71132 AU
superior conj	727 Nov 02 j 12:37	13°♏15'37	0°32'17
minimum elong	727 Nov 02 j 20:21	13°♏39'57	0°31'55
	727 Nov 15 j 19:53	0°♐	
desc. node	727 Nov 16 j 09:29	0°♐42'46	
	727 Dec 09 j 16:26	0°♑	
evening rise	727 Dec 14 j 01:18	5°♑29'18	
	728 Jan 02 j 14:24	0°♒	
	728 Jan 26 j 15:25	0°♓	
	728 Feb 19 j 22:01	0°♈	
asc. node	728 Mar 08 j 12:48	21°♈29'51	
	728 Mar 15 j 13:35	0°♉	
	728 Apr 09 j 18:42	0°♊	
	728 May 05 j 21:35	0°♋	
	728 Jun 02 j 19:43	0°♌	
evening max el	728 Jun 12 j 17:53	9°♌47'29	45°26'26
desc. node	728 Jun 28 j 02:14	23°♌24'53	
	728 Jul 06 j 22:11	0°♍	
greatest brilliancy	728 Jul 21 j 18:32	7°♍44'46	-4.7m
retrograde	728 Jul 31 j 09:11	9°♍24'40	
evening set	728 Aug 18 j 08:05	3°♍27'59	
inferior conj	728 Aug 21 j 14:36	1°♍28'30	-8°43'00
minimum elong	728 Aug 21 j 12:49	1°♍31'16	8°42'58
min. Earth dist.	728 Aug 22 j 04:51	1°♍06'30	0.28247 AU
	728 Aug 24 j 00:11	30°℞♌	
morning rise	728 Aug 24 j 17:20	29°♌34'05	
direct	728 Sep 11 j 22:01	23°♌21'44	
greatest brilliancy	728 Sep 22 j 23:17	25°♌36'12	-4.8m
	728 Oct 01 j 15:38	0°♍	
asc. node	728 Oct 19 j 05:24	13°♍30'36	
morning max el	728 Nov 01 j 08:28	26°♍05'47	46°45'16
	728 Nov 05 j 03:37	0°♎	
	728 Dec 02 j 06:58	0°♏	
	728 Dec 27 j 17:06	0°♐	
	729 Jan 21 j 12:10	0°♑	
desc. node	729 Feb 07 j 18:58	21°♑05'58	
	729 Feb 15 j 01:34	0°♒	
	729 Mar 11 j 13:11	0°♓	
	729 Apr 05 j 00:39	0°♈	
	729 Apr 29 j 12:22	0°♉	
morning set	729 May 06 j 20:09	8°♉58'28	
	729 May 23 j 23:52	0°♊	
asc. node	729 May 31 j 22:24	9°♊44'27	
max. Earth dist.	729 Jun 10 j 13:08	21°♊32'53	1.73593 AU
superior conj	729 Jun 12 j 08:13	23°♊45'13	0°26'38
minimum elong	729 Jun 12 j 03:04	23°♊29'26	0°26'23
	729 Jun 17 j 10:10	0°♋	
	729 Jul 11 j 18:41	0°♌	
evening rise	729 Jul 18 j 02:04	7°♌46'55	
	729 Aug 05 j 01:48	0°♍	
	729 Aug 29 j 08:41	0°♎	
desc. node	729 Sep 20 j 11:46	27°♎17'06	
	729 Sep 22 j 16:42	0°♏	
	729 Oct 17 j 03:06	0°♐	
	729 Nov 10 j 18:02	0°♑	
	729 Dec 05 j 19:06	0°♒	
	729 Dec 31 j 21:01	0°♓	
asc. node	730 Jan 11 j 15:04	11°♓41'07	
evening max el	730 Jan 19 j 13:51	19°♓55'19	46°43'24
	730 Jan 29 j 23:27	0°♈	
greatest brilliancy	730 Feb 28 j 07:33	20°♈30'29	-4.8m
retrograde	730 Mar 10 j 21:32	22°♈36'35	
evening set	730 Mar 27 j 19:52	17°♈03'11	
inferior conj	730 Apr 01 j 05:08	14°♈19'52	6°37'56
minimum elong	730 Apr 01 j 14:37	14°♈04'50	6°36'10
min. Earth dist.	730 Apr 01 j 05:19	14°♈19'34	0.28676 AU
morning rise	730 Apr 06 j 09:35	11°♈08'33	
direct	730 Apr 22 j 12:26	6°♈06'38	
greatest brilliancy	730 May 02 j 09:06	7°♈52'17	-4.7m
desc. node	730 May 03 j 04:16	8°♈09'15	
	730 Jun 03 j 22:33	0°♉	
morning max el	730 Jun 10 j 06:58	5°♉53'47	45°44'41
	730 Jul 03 j 22:33	0°♊	
	730 Jul 30 j 21:32	0°♋	
asc. node	730 Aug 24 j 07:51	28°♋36'14	
	730 Aug 25 j 11:56	0°♌	
	730 Sep 19 j 06:32	0°♍	
	730 Oct 13 j 12:42	0°♎	
	730 Nov 06 j 12:04	0°♏	
	730 Nov 30 j 08:43	0°♐	
morning set	730 Dec 08 j 03:22	9°♐47'04	
desc. node	730 Dec 13 j 21:21	17°♐01'04	
	730 Dec 24 j 05:08	0°♑	
	731 Jan 17 j 02:43	0°♒	
superior conj	731 Jan 19 j 01:05	2°♒25'18	-1°12'24
minimum elong	731 Jan 18 j 14:22	1°♒51'41	1°12'07
max. Earth dist.	731 Jan 22 j 15:26	6°♒55'39	1.71536 AU
	731 Feb 10 j 02:30	0°♓	
evening rise	731 Feb 28 j 10:35	22°♓48'59	
	731 Mar 06 j 05:39	0°♈	
	731 Mar 30 j 13:23	0°♉	
asc. node	731 Apr 06 j 00:42	7°♉56'06	
	731 Apr 24 j 02:47	0°♊	
	731 May 18 j 23:08	0°♋	
	731 Jun 13 j 04:53	0°♌	
	731 Jul 09 j 01:32	0°♍	
desc. node	731 Jul 26 j 13:57	19°♍39'37	
	731 Aug 05 j 02:14	0°♎	
evening max el	731 Aug 25 j 14:19	21°♎04'01	46°28'41
	731 Sep 04 j 03:16	0°♏	
greatest brilliancy	731 Oct 05 j 03:12	20°♏46'44	-4.9m
retrograde	731 Oct 14 j 09:30	22°♏22'59	
evening set	731 Oct 29 j 08:19	18°♏00'40	
inferior conj	731 Nov 03 j 22:58	14°♏44'11	-3°14'09
minimum elong	731 Nov 04 j 06:01	14°♏33'30	3°12'01
min. Earth dist.	731 Nov 04 j 08:54	14°♏29'08	0.26527 AU
morning rise	731 Nov 10 j 03:20	11°♏08'55	
asc. node	731 Nov 16 j 17:18	8°♏18'11	

direct	731 Nov 24 j 09:54	7°♏04'27		
greatest brilliancy	731 Dec 04 j 23:51	9°♏12'32	-4.9m	
	732 Jan 03 j 09:35	0°♐		
morning max el	732 Jan 14 j 01:18	10°♐20'59	46°52'36	
	732 Feb 01 j 14:24	0°♑		
	732 Feb 28 j 02:31	0°♒		
desc. node	732 Mar 07 j 06:52	9°♒30'55		
	732 Mar 24 j 16:54	0°♓		
	732 Apr 18 j 21:35	0°♈		
	732 May 13 j 20:51	0°♉		
	732 Jun 07 j 15:45	0°♊		
asc. node	732 Jun 28 j 10:16	25°♊19'25		
	732 Jul 02 j 05:56	0°♋		
morning set	732 Jul 13 j 07:16	13°♋34'22		
	732 Jul 26 j 14:57	0°♌		
max. Earth dist.	732 Aug 15 j 06:28	24°♌21'22	1.72493 AU	
superior conj	732 Aug 18 j 20:28	28°♌48'47	1°24'00	
minimum elong	732 Aug 18 j 18:13	28°♌41'46	1°24'00	
	732 Aug 19 j 19:22	0°♍		
	732 Sep 12 j 20:41	0°♎		
evening rise	732 Sep 25 j 13:50	15°♎53'22		
	732 Oct 06 j 20:42	0°♏		
desc. node	732 Oct 17 j 23:45	13°♏54'32		
	732 Oct 30 j 20:46	0°♐		
	732 Nov 23 j 21:56	0°♑		
	732 Dec 18 j 01:52	0°♒		
	733 Jan 11 j 12:09	0°♓		
	733 Feb 05 j 11:36	0°♈		
asc. node	733 Feb 08 j 02:51	3°♈06'17		
	733 Mar 03 j 13:14	0°♉		
evening max el	733 Mar 31 j 15:33	29°♉32'03	45°35'28	
	733 Apr 01 j 03:06	0°♊		
greatest brilliancy	733 May 08 j 08:48	27°♊24'53	-4.7m	
retrograde	733 May 19 j 09:06	29°♊34'59		
desc. node	733 May 30 j 16:24	27°♊03'38		
evening set	733 Jun 03 j 09:39	25°♊13'18		
inferior conj	733 Jun 09 j 19:51	21°♊22'35	-2°21'08	
minimum elong	733 Jun 09 j 14:49	21°♊30'28	2°19'42	
min. Earth dist.	733 Jun 09 j 20:30	21°♊21'35	0.28972 AU	
morning rise	733 Jun 15 j 20:00	17°♊45'49		
direct	733 Jul 01 j 12:40	13°♊04'44		
greatest brilliancy	733 Jul 12 j 00:15	15°♊03'32	-4.7m	
	733 Aug 04 j 20:22	0°♋		
morning max el	733 Aug 19 j 16:30	13°♋25'02	46°02'07	
	733 Sep 04 j 21:52	0°♌		
asc. node	733 Sep 20 j 19:44	17°♌31'51		
	733 Oct 01 j 16:30	0°♍		
	733 Oct 26 j 21:26	0°♎		
	733 Nov 20 j 08:43	0°♏		
	733 Dec 14 j 12:19	0°♐		
	734 Jan 07 j 13:27	0°♑		
desc. node	734 Jan 10 j 09:13	3°♑31'27		
	734 Jan 31 j 14:42	0°♒		
morning set	734 Feb 22 j 23:28	27°♒50'05		
	734 Feb 24 j 17:18	0°♓		
	734 Mar 20 j 22:03	0°♈		
superior conj	734 Apr 02 j 17:08	15°♈48'32	-1°04'35	
minimum elong	734 Apr 03 j 02:53	16°♈18'39	1°04'17	
max. Earth dist.	734 Apr 05 j 10:48	19°♈11'09	1.73078 AU	
	734 Apr 14 j 05:19	0°♉		
asc. node	734 May 03 j 12:38	23°♉44'22		
	734 May 08 j 15:01	0°♊		
evening rise	734 May 10 j 04:19	1°♊54'26		
	734 Jun 02 j 02:43	0°♋		
	734 Jun 26 j 16:25	0°♌		
	734 Jul 21 j 09:09	0°♍		
	734 Aug 15 j 07:00	0°♎		
desc. node	734 Aug 23 j 01:53	9°♎18'00		
	734 Sep 09 j 13:17	0°♏		
	734 Oct 05 j 10:34	0°♐		
	734 Nov 01 j 18:37	0°♑		
evening max el	734 Nov 06 j 16:44	5°♑04'14	47°21'45	
	734 Dec 04 j 23:52	0°♒		
asc. node	734 Dec 14 j 05:15	5°♒23'49		
greatest brilliancy	734 Dec 17 j 05:28	6°♒40'36	-4.9m	
retrograde	734 Dec 27 j 15:07	8°♒44'25		
evening set	735 Jan 12 j 17:36	3°♒34'51		
min. Earth dist.	735 Jan 16 j 09:12	1°♒21'40	0.27152 AU	
inferior conj	735 Jan 17 j 08:51	0°♒44'47	7°22'43	
minimum elong	735 Jan 16 j 23:26	0°♒59'29	7°21'06	
	735 Jan 18 j 13:37	30°℞♑		
morning rise	735 Jan 21 j 05:44	28°♑22'52		
direct	735 Feb 06 j 22:19	22°♑58'33		
greatest brilliancy	735 Feb 15 j 19:20	24°♑27'52	-4.8m	
	735 Feb 27 j 06:14	0°♒		
morning max el	735 Mar 28 j 09:22	24°♒10'26	46°13'21	
	735 Apr 03 j 06:20	0°♓		
desc. node	735 Apr 04 j 18:41	1°♓32'00		
	735 May 01 j 09:43	0°♈		
	735 May 27 j 20:38	0°♉		
	735 Jun 22 j 12:17	0°♊		
	735 Jul 17 j 14:47	0°♋		
asc. node	735 Jul 26 j 21:59	11°♋15'43		
	735 Aug 11 j 06:21	0°♌		
	735 Sep 04 j 13:01	0°♍		
morning set	735 Sep 21 j 21:39	21°♍39'23		
	735 Sep 28 j 13:32	0°♎		
	735 Oct 22 j 10:49	0°♏		
max. Earth dist.	735 Oct 30 j 01:06	9°♏33'18	1.71157 AU	
superior conj	735 Oct 31 j 00:13	10°♏46'00	0°35'46	
minimum elong	735 Oct 31 j 08:36	11°♏12'22	0°35'24	
desc. node	735 Nov 15 j 11:40	0°♐14'21		
	735 Nov 15 j 07:06	0°♐		
	735 Dec 09 j 03:43	0°♑		
evening rise	735 Dec 11 j 11:20	2°♑54'36		
	736 Jan 02 j 01:47	0°♒		
	736 Jan 26 j 02:57	0°♓		
	736 Feb 19 j 09:48	0°♈		
asc. node	736 Mar 07 j 14:50	20°♈59'30		
	736 Mar 15 j 01:49	0°♉		
	736 Apr 09 j 07:51	0°♊		
	736 May 05 j 12:39	0°♋		
	736 Jun 02 j 15:46	0°♌		
evening max el	736 Jun 10 j 07:28	7°♌30'02	45°25'24	
desc. node	736 Jun 27 j 04:13	22°♌20'31		
	736 Jul 08 j 00:32	0°♍		
greatest brilliancy	736 Jul 19 j 07:29	5°♍27'42	-4.7m	
retrograde	736 Jul 28 j 23:18	7°♍08'56		
evening set	736 Aug 15 j 20:34	1°♍14'25		
	736 Aug 17 j 21:58	30°℞♌		
inferior conj	736 Aug 19 j 05:16	29°♌11'52	-8°40'20	
minimum elong	736 Aug 19 j 02:37	29°♌15'57	8°40'14	
min. Earth dist.	736 Aug 19 j 19:01	28°♌50'39	0.28298 AU	
morning rise	736 Aug 22 j 08:27	27°♌16'51		
direct	736 Sep 09 j 12:43	21°♌04'04		
greatest brilliancy	736 Sep 20 j 14:52	23°♌19'06	-4.8m	
	736 Oct 02 j 19:58	0°♍		
asc. node	736 Oct 18 j 07:31	12°♍30'21		
morning max el	736 Oct 29 j 22:50	23°♍43'51	46°44'21	
	736 Nov 05 j 00:19	0°♎		
	736 Dec 01 j 22:43	0°♏		

	736 Dec 27 j 06:52	0°♐	
	737 Jan 21 j 00:53	0°♑	
desc. node	737 Feb 06 j 21:00	20°♑34'38	
	737 Feb 14 j 13:40	0°♒	
	737 Mar 11 j 00:51	0°♓	
	737 Apr 04 j 11:59	0°♈	
	737 Apr 28 j 23:29	0°♉	
morning set	737 May 04 j 13:42	6°♉51'15	
	737 May 23 j 10:49	0°♊	
asc. node	737 May 31 j 00:29	9°♊17'16	
max. Earth dist.	737 Jun 08 j 10:50	19°♊38'35	1.73608 AU
superior conj	737 Jun 10 j 02:30	21°♊40'27	0°23'38
minimum elong	737 Jun 09 j 21:53	21°♊26'15	0°23'25
	737 Jun 16 j 21:04	0°♋	
	737 Jul 11 j 05:40	0°♌	
evening rise	737 Jul 15 j 20:35	5°♌42'00	
	737 Aug 04 j 12:59	0°♍	
	737 Aug 28 j 20:11	0°♎	
desc. node	737 Sep 19 j 13:53	26°♎47'10	
	737 Sep 22 j 04:36	0°♏	
	737 Oct 16 j 15:30	0°♐	
	737 Nov 10 j 07:11	0°♑	
	737 Dec 05 j 09:33	0°♒	
	737 Dec 31 j 14:21	0°♓	
asc. node	738 Jan 10 j 17:00	10°♓54'49	
evening max el	738 Jan 17 j 04:36	17°♓36'35	46°45'53
	738 Jan 30 j 02:51	0°♈	
greatest brilliancy	738 Feb 25 j 23:36	18°♈17'09	-4.8m
retrograde	738 Mar 08 j 14:14	20°♈24'06	
evening set	738 Mar 25 j 14:41	14°♈46'11	
inferior conj	738 Mar 29 j 21:12	12°♈07'09	6°50'46
minimum elong	738 Mar 30 j 06:33	11°♈52'22	6°49'06
min. Earth dist.	738 Mar 29 j 20:39	12°♈08'01	0.28654 AU
morning rise	738 Apr 03 j 22:37	9°♈00'32	
direct	738 Apr 20 j 03:54	3°♈54'13	
greatest brilliancy	738 Apr 29 j 23:48	5°♈39'35	-4.7m
desc. node	738 May 02 j 06:29	6°♈30'49	
	738 Jun 03 j 23:42	0°♉	
morning max el	738 Jun 07 j 23:36	3°♉44'56	45°44'54
	738 Jul 03 j 15:01	0°♊	
	738 Jul 30 j 11:14	0°♋	
asc. node	738 Aug 23 j 09:58	28°♋05'16	
	738 Aug 25 j 00:23	0°♌	
	738 Sep 18 j 18:22	0°♍	
	738 Oct 13 j 00:13	0°♎	
	738 Nov 05 j 23:24	0°♏	
	738 Nov 29 j 19:56	0°♐	
morning set	738 Dec 05 j 13:30	7°♐12'41	
desc. node	738 Dec 12 j 23:23	16°♐32'15	
	738 Dec 23 j 16:16	0°♑	
superior conj	739 Jan 16 j 11:41	29°♑53'28	-1°10'14
minimum elong	739 Jan 16 j 00:30	29°♑18'24	1°09'54
	739 Jan 16 j 13:46	0°♒	
max. Earth dist.	739 Jan 20 j 00:20	4°♒18'40	1.71490 AU
	739 Feb 09 j 13:30	0°♓	
evening rise	739 Feb 25 j 23:37	20°♓26'27	
	739 Mar 05 j 16:38	0°♈	
	739 Mar 30 j 00:27	0°♉	
asc. node	739 Apr 05 j 02:51	7°♉28'36	
	739 Apr 23 j 14:08	0°♊	
	739 May 18 j 11:00	0°♋	
	739 Jun 12 j 17:40	0°♌	
	739 Jul 08 j 15:59	0°♍	
desc. node	739 Jul 25 j 16:00	19°♍00'15	
	739 Aug 04 j 20:18	0°♎	
evening max el	739 Aug 23 j 04:31	18°♎44'10	46°26'01
	739 Sep 04 j 09:26	0°♏	
greatest brilliancy	739 Oct 02 j 15:20	18°♏18'41	-4.9m
retrograde	739 Oct 11 j 21:49	19°♏54'25	
evening set	739 Oct 26 j 22:53	15°♏28'53	
inferior conj	739 Nov 01 j 11:00	12°♏15'30	-3°36'47
minimum elong	739 Nov 01 j 18:45	12°♏03'46	3°34'29
min. Earth dist.	739 Nov 01 j 21:57	11°♏58'54	0.26563 AU
morning rise	739 Nov 07 j 14:16	8°♏41'41	
asc. node	739 Nov 15 j 19:24	5°♏22'26	
direct	739 Nov 21 j 23:06	4°♏35'19	
greatest brilliancy	739 Dec 02 j 13:06	6°♏43'40	-4.9m
	740 Jan 03 j 13:26	0°♐	
morning max el	740 Jan 11 j 15:23	7°♐56'53	46°53'26
	740 Feb 01 j 08:13	0°♑	
	740 Feb 27 j 17:02	0°♒	
desc. node	740 Mar 06 j 09:02	8°♒56'34	
	740 Mar 24 j 05:48	0°♓	
	740 Apr 18 j 09:32	0°♈	
	740 May 13 j 08:13	0°♉	
	740 Jun 07 j 02:47	0°♊	
asc. node	740 Jun 27 j 12:14	24°♊52'08	
	740 Jul 01 j 16:47	0°♋	
morning set	740 Jul 11 j 01:10	11°♋28'40	
	740 Jul 26 j 01:44	0°♌	
max. Earth dist.	740 Aug 12 j 21:04	22°♌04'07	1.72545 AU
superior conj	740 Aug 16 j 13:27	26°♌38'45	1°23'32
minimum elong	740 Aug 16 j 10:32	26°♌29'39	1°23'31
	740 Aug 19 j 06:10	0°♍	
	740 Sep 12 j 07:36	0°♎	
evening rise	740 Sep 23 j 03:30	13°♎31'43	
	740 Oct 06 j 07:47	0°♏	
desc. node	740 Oct 17 j 01:52	13°♏26'12	
	740 Oct 30 j 08:05	0°♐	
	740 Nov 23 j 09:31	0°♑	
	740 Dec 17 j 13:46	0°♒	
	741 Jan 11 j 00:33	0°♓	
	741 Feb 05 j 00:58	0°♈	
asc. node	741 Feb 07 j 04:59	2°♈32'54	
	741 Mar 03 j 04:49	0°♉	
evening max el	741 Mar 29 j 07:43	27°♉22'06	45°37'08
	741 Apr 01 j 01:28	0°♊	
greatest brilliancy	741 May 06 j 01:49	25°♊18'08	-4.7m
retrograde	741 May 17 j 01:16	27°♊27'35	
desc. node	741 May 29 j 18:21	24°♊18'06	
evening set	741 Jun 01 j 02:00	23°♊06'30	
inferior conj	741 Jun 07 j 12:29	19°♊15'06	-2°02'10
minimum elong	741 Jun 07 j 08:06	19°♊21'59	2°00'55
min. Earth dist.	741 Jun 07 j 13:22	19°♊13'44	0.28975 AU
morning rise	741 Jun 13 j 14:11	15°♊35'43	
direct	741 Jun 29 j 05:20	10°♊57'18	
greatest brilliancy	741 Jul 09 j 16:15	12°♊55'07	-4.7m
	741 Aug 05 j 02:03	0°♋	
morning max el	741 Aug 17 j 07:26	11°♋11'45	46°00'43
	741 Sep 04 j 15:09	0°♌	
asc. node	741 Sep 19 j 21:53	16°♌55'16	
	741 Oct 01 j 06:34	0°♍	
	741 Oct 26 j 10:09	0°♎	
	741 Nov 19 j 20:45	0°♏	
	741 Dec 13 j 23:57	0°♐	
	742 Jan 07 j 00:49	0°♑	
desc. node	742 Jan 09 j 11:11	3°♑02'12	
	742 Jan 31 j 01:50	0°♒	
morning set	742 Feb 20 j 12:06	25°♒26'09	
	742 Feb 24 j 04:14	0°♓	
	742 Mar 20 j 08:49	0°♈	

superior conj	742 Mar 31 j 08:51	13°♈35'52	-1°06'47
minimum elong	742 Mar 31 j 18:32	14°♈05'43	1°06'29
max. Earth dist.	742 Apr 03 j 06:35	17°♈11'04	1.73026 AU
	742 Apr 13 j 16:00	0°♉	
asc. node	742 May 02 j 14:43	23°♉18'02	
evening rise	742 May 07 j 22:18	29°♉49'37	
	742 May 08 j 01:41	0°♊	
	742 Jun 01 j 13:31	0°♋	
	742 Jun 26 j 03:31	0°♌	
	742 Jul 20 j 20:46	0°♍	
	742 Aug 14 j 19:26	0°♎	
desc. node	742 Aug 22 j 04:00	8°♎46'23	
	742 Sep 09 j 03:00	0°♏	
	742 Oct 05 j 02:35	0°♐	
	742 Nov 01 j 16:05	0°♑	
evening max el	742 Nov 04 j 06:09	2°♑38'40	47°21'12
	742 Dec 06 j 07:32	0°♒	
asc. node	742 Dec 13 j 07:12	3°♒38'42	
greatest brilliancy	742 Dec 14 j 20:35	4°♒16'19	-4.9m
retrograde	742 Dec 25 j 04:22	6°♒18'39	
evening set	743 Jan 10 j 03:28	1°♒15'18	
	743 Jan 12 j 05:59	30°℞♑	
min. Earth dist.	743 Jan 13 j 23:08	28°♑56'26	0.27089 AU
inferior conj	743 Jan 14 j 22:16	28°♑20'21	7°10'02
minimum elong	743 Jan 14 j 12:32	28°♑35'33	7°08'14
morning rise	743 Jan 18 j 22:03	25°♑54'09	
direct	743 Feb 04 j 10:36	20°♑34'59	
greatest brilliancy	743 Feb 13 j 09:20	22°♑05'21	-4.8m
	743 Feb 28 j 10:20	0°♒	
morning max el	743 Mar 25 j 22:05	21°♒48'19	46°14'59
	743 Apr 03 j 02:50	0°♓	
desc. node	743 Apr 03 j 20:47	0°♓45'55	
	743 May 01 j 00:55	0°♈	
	743 May 27 j 09:40	0°♉	
	743 Jun 22 j 00:11	0°♊	
	743 Jul 17 j 02:02	0°♋	
asc. node	743 Jul 26 j 00:09	10°♋48'30	
	743 Aug 10 j 17:17	0°♌	
	743 Sep 03 j 23:50	0°♍	
morning set	743 Sep 19 j 12:24	19°♍21'32	
	743 Sep 28 j 00:21	0°♎	
	743 Oct 21 j 21:42	0°♏	
max. Earth dist.	743 Oct 27 j 08:32	6°♏51'27	1.71187 AU
superior conj	743 Oct 28 j 11:39	8°♏16'45	0°39'14
minimum elong	743 Oct 28 j 20:36	8°♏44'55	0°38'50
desc. node	743 Nov 14 j 13:40	29°♏46'14	
	743 Nov 14 j 18:02	0°♐	
evening rise	743 Dec 08 j 21:03	0°♑19'54	
	743 Dec 08 j 14:43	0°♑	
	744 Jan 01 j 12:51	0°♒	
	744 Jan 25 j 14:09	0°♓	
	744 Feb 18 j 21:15	0°♈	
asc. node	744 Mar 06 j 17:00	20°♈30'32	
	744 Mar 14 j 13:45	0°♉	
	744 Apr 08 j 20:41	0°♊	
	744 May 05 j 03:27	0°♋	
	744 Jun 02 j 11:51	0°♌	
evening max el	744 Jun 07 j 22:02	5°♌16'41	45°24'36
desc. node	744 Jun 26 j 06:16	21°♌16'23	
	744 Jul 09 j 12:15	0°♍	
greatest brilliancy	744 Jul 16 j 19:57	3°♍12'27	-4.7m
retrograde	744 Jul 26 j 14:11	4°♍55'46	
	744 Aug 11 j 17:59	30°℞♌	
evening set	744 Aug 13 j 09:05	29°♌03'43	
inferior conj	744 Aug 16 j 20:14	26°♌57'40	-8°36'48
minimum elong	744 Aug 16 j 16:48	27°♌02'57	8°36'37
min. Earth dist.	744 Aug 17 j 09:07	26°♌37'49	0.28352 AU
morning rise	744 Aug 20 j 00:17	25°♌01'28	
direct	744 Sep 07 j 04:15	18°♌48'55	
greatest brilliancy	744 Sep 18 j 06:22	21°♌04'06	-4.8m
	744 Oct 03 j 15:46	0°♍	
asc. node	744 Oct 17 j 09:36	11°♍32'39	
morning max el	744 Oct 27 j 14:17	21°♍26'01	46°43'04
	744 Nov 04 j 20:00	0°♎	
	744 Dec 01 j 13:59	0°♏	
	744 Dec 26 j 20:19	0°♐	
	745 Jan 20 j 13:19	0°♑	
desc. node	745 Feb 05 j 23:12	20°♑04'39	
	745 Feb 14 j 01:27	0°♒	
	745 Mar 10 j 12:11	0°♓	
	745 Apr 03 j 22:59	0°♈	
	745 Apr 28 j 10:15	0°♉	
morning set	745 May 02 j 07:18	4°♉45'12	
	745 May 22 j 21:26	0°♊	
asc. node	745 May 30 j 02:29	8°♊50'51	
max. Earth dist.	745 Jun 06 j 09:47	17°♊49'07	1.73617 AU
superior conj	745 Jun 07 j 21:02	19°♊37'24	0°20'37
minimum elong	745 Jun 07 j 16:57	19°♊24'52	0°20'26
	745 Jun 16 j 07:39	0°♋	
	745 Jul 10 j 16:19	0°♌	
evening rise	745 Jul 13 j 15:34	3°♌39'39	
	745 Aug 03 j 23:49	0°♍	
	745 Aug 28 j 07:18	0°♎	
desc. node	745 Sep 18 j 16:02	26°♎18'27	
	745 Sep 21 j 16:08	0°♏	
	745 Oct 16 j 03:38	0°♐	
	745 Nov 09 j 20:11	0°♑	
	745 Dec 05 j 00:01	0°♒	
	745 Dec 31 j 07:58	0°♓	
asc. node	746 Jan 09 j 19:10	10°♓08'39	
evening max el	746 Jan 14 j 20:19	15°♓20'23	46°48'23
	746 Jan 30 j 08:00	0°♈	
greatest brilliancy	746 Feb 23 j 15:26	16°♈03'34	-4.8m
retrograde	746 Mar 06 j 07:05	18°♈11'18	
evening set	746 Mar 23 j 09:23	12°♈29'05	
inferior conj	746 Mar 27 j 13:04	9°♈54'15	7°03'04
minimum elong	746 Mar 27 j 22:14	9°♈39'46	7°01'30
min. Earth dist.	746 Mar 27 j 11:31	9°♈56'41	0.28625 AU
morning rise	746 Apr 01 j 11:21	6°♈52'29	
direct	746 Apr 17 j 19:33	1°♈41'51	
greatest brilliancy	746 Apr 27 j 13:41	3°♈26'13	-4.7m
desc. node	746 May 01 j 08:29	4°♈55'51	
	746 Jun 03 j 23:23	0°♉	
morning max el	746 Jun 05 j 16:28	1°♉37'17	45°45'12
	746 Jul 03 j 06:55	0°♊	
	746 Jul 30 j 00:32	0°♋	
asc. node	746 Aug 22 j 12:05	27°♋35'13	
	746 Aug 24 j 12:30	0°♌	
	746 Sep 18 j 05:53	0°♍	
	746 Oct 12 j 11:26	0°♎	
	746 Nov 05 j 10:28	0°♏	
	746 Nov 29 j 06:57	0°♐	
morning set	746 Dec 02 j 23:45	4°♐39'22	
desc. node	746 Dec 12 j 01:25	16°♐04'02	
	746 Dec 23 j 03:16	0°♑	
superior conj	747 Jan 13 j 21:46	27°♑20'12	-1°07'52
minimum elong	747 Jan 13 j 10:15	26°♑44'03	1°07'32
	747 Jan 16 j 00:45	0°♒	
max. Earth dist.	747 Jan 17 j 10:02	1°♒44'20	1.71451 AU
	747 Feb 09 j 00:26	0°♓	
evening rise	747 Feb 23 j 11:58	18°♓01'49	

	747 Mar 05 j 03:34	0°♈		
	747 Mar 29 j 11:29	0°♉		
asc. node	747 Apr 04 j 04:53	7°♉00'55		
	747 Apr 23 j 01:25	0°♊		
	747 May 17 j 22:48	0°♋		
	747 Jun 12 j 06:23	0°♌		
	747 Jul 08 j 06:27	0°♍		
desc. node	747 Jul 24 j 18:10	18°♍21'21		
	747 Aug 04 j 14:35	0°♎		
evening max el	747 Aug 20 j 18:53	16°♎25'38	46°23'28	
	747 Sep 04 j 17:28	0°♏		
greatest brilliancy	747 Sep 30 j 04:12	15°♏53'17	-4.9m	
retrograde	747 Oct 09 j 09:56	17°♏27'53		
evening set	747 Oct 24 j 14:00	12°♏59'10		
inferior conj	747 Oct 29 j 23:29	9°♏49'02	-3°58'38	
minimum elong	747 Oct 30 j 07:50	9°♏36'21	3°56'12	
min. Earth dist.	747 Oct 30 j 11:33	9°♏30'43	0.26601 AU	
morning rise	747 Nov 05 j 01:20	6°♏16'45		
asc. node	747 Nov 14 j 21:20	2°♏34'55		
direct	747 Nov 19 j 12:26	2°♏08'25		
greatest brilliancy	747 Nov 30 j 02:57	4°♏17'03	-4.9m	
	748 Jan 03 j 15:24	0°♐		
morning max el	748 Jan 09 j 04:42	5°♐31'23	46°53'51	
	748 Feb 01 j 01:32	0°♑		
	748 Feb 27 j 07:25	0°♒		
desc. node	748 Mar 05 j 11:04	8°♒21'58		
	748 Mar 23 j 18:41	0°♓		
	748 Apr 17 j 21:31	0°♈		
	748 May 12 j 19:37	0°♉		
	748 Jun 06 j 13:49	0°♊		
asc. node	748 Jun 26 j 14:23	24°♊25'25		
	748 Jul 01 j 03:37	0°♋		
morning set	748 Jul 08 j 18:56	9°♋22'35		
	748 Jul 25 j 12:31	0°♌		
max. Earth dist.	748 Aug 10 j 11:22	19°♌46'01	1.72598 AU	
superior conj	748 Aug 14 j 06:36	24°♌29'19	1°22'57	
minimum elong	748 Aug 14 j 03:00	24°♌18'09	1°22'54	
	748 Aug 18 j 16:59	0°♍		
	748 Sep 11 j 18:30	0°♎		
evening rise	748 Sep 20 j 17:34	11°♎11'24		
	748 Oct 05 j 18:51	0°♏		
desc. node	748 Oct 16 j 03:51	12°♏57'34		
	748 Oct 29 j 19:22	0°♐		
	748 Nov 22 j 21:03	0°♑		
	748 Dec 17 j 01:38	0°♒		
	749 Jan 10 j 13:00	0°♓		
	749 Feb 04 j 14:33	0°♈		
asc. node	749 Feb 06 j 07:04	1°♈58'54		
	749 Mar 02 j 20:51	0°♉		
evening max el	749 Mar 26 j 22:54	25°♉08'49	45°38'44	
	749 Apr 01 j 01:13	0°♊		
greatest brilliancy	749 May 03 j 18:50	23°♊10'01	-4.7m	
retrograde	749 May 14 j 17:04	25°♊18'51		
desc. node	749 May 28 j 20:24	21°♊27'02		
evening set	749 May 29 j 18:14	20°♊57'56		
inferior conj	749 Jun 05 j 04:54	17°♊06'19	-1°42'52	
minimum elong	749 Jun 05 j 01:10	17°♊12'09	1°41'48	
min. Earth dist.	749 Jun 05 j 06:17	17°♊04'08	0.28975 AU	
morning rise	749 Jun 11 j 08:01	13°♊24'32		
direct	749 Jun 26 j 21:16	8°♊48'28		
greatest brilliancy	749 Jul 07 j 08:34	10°♊46'04	-4.7m	
	749 Aug 05 j 06:06	0°♋		
morning max el	749 Aug 14 j 21:52	8°♋56'48	45°59'29	
	749 Sep 04 j 08:14	0°♌		
asc. node	749 Sep 18 j 23:54	16°♌18'12		
	749 Sep 30 j 20:37	0°♍		
	749 Oct 25 j 22:53	0°♎		
	749 Nov 19 j 08:50	0°♏		
	749 Dec 13 j 11:37	0°♐		
	750 Jan 06 j 12:12	0°♑		
desc. node	750 Jan 08 j 13:23	2°♑33'34		
	750 Jan 30 j 13:00	0°♒		
morning set	750 Feb 18 j 00:42	23°♒01'46		
	750 Feb 23 j 15:15	0°♓		
	750 Mar 19 j 19:44	0°♈		
superior conj	750 Mar 29 j 00:25	11°♈22'06	-1°08'52	
minimum elong	750 Mar 29 j 09:57	11°♈51'31	1°08'36	
max. Earth dist.	750 Apr 01 j 00:03	15°♈03'15	1.72981 AU	
	750 Apr 13 j 02:53	0°♉		
asc. node	750 May 01 j 16:42	22°♉50'41		
evening rise	750 May 05 j 15:53	27°♉42'45		
	750 May 07 j 12:37	0°♊		
	750 Jun 01 j 00:35	0°♋		
	750 Jun 25 j 14:53	0°♌		
	750 Jul 20 j 08:40	0°♍		
	750 Aug 14 j 08:11	0°♎		
desc. node	750 Aug 21 j 06:04	8°♎13'46		
	750 Sep 08 j 17:06	0°♏		
	750 Oct 04 j 19:07	0°♐		
	750 Nov 01 j 14:35	0°♑		
evening max el	750 Nov 01 j 19:24	0°♑12'11	47°20'43	
	750 Dec 08 j 06:36	0°♒		
asc. node	750 Dec 12 j 09:24	1°♒49'13		
greatest brilliancy	750 Dec 12 j 11:25	1°♒51'07	-4.9m	
retrograde	750 Dec 22 j 17:49	3°♒52'41		
	751 Jan 05 j 14:16	30°℞♑		
evening set	751 Jan 07 j 13:22	28°♑55'02		
min. Earth dist.	751 Jan 11 j 13:00	26°♑30'54	0.27027 AU	
inferior conj	751 Jan 12 j 11:44	25°♑55'32	6°56'25	
minimum elong	751 Jan 12 j 01:44	26°♑11'05	6°54'29	
morning rise	751 Jan 16 j 14:30	23°♑25'09		
direct	751 Feb 01 j 22:50	18°♑10'51		
greatest brilliancy	751 Feb 10 j 23:19	19°♑42'34	-4.9m	
	751 Mar 01 j 06:58	0°♒		
morning max el	751 Mar 23 j 11:31	19°♒27'27	46°16'32	
desc. node	751 Apr 02 j 22:49	29°♒59'52		
	751 Apr 02 j 22:52	0°♓		
	751 Apr 30 j 16:09	0°♈		
	751 May 26 j 22:54	0°♉		
	751 Jun 21 j 12:23	0°♊		
	751 Jul 16 j 13:38	0°♋		
asc. node	751 Jul 25 j 02:17	10°♋20'06		
	751 Aug 10 j 04:33	0°♌		
	751 Sep 03 j 10:57	0°♍		
morning set	751 Sep 17 j 03:03	17°♍02'37		
	751 Sep 27 j 11:27	0°♎		
	751 Oct 21 j 08:51	0°♏		
max. Earth dist.	751 Oct 24 j 18:27	4°♏16'34	1.71216 AU	
superior conj	751 Oct 25 j 23:05	5°♏46'36	0°42'36	
minimum elong	751 Oct 26 j 08:31	6°♏16'18	0°42'11	
desc. node	751 Nov 13 j 15:43	29°♏17'25		
	751 Nov 14 j 05:15	0°♐		
evening rise	751 Dec 06 j 06:53	27°♐44'39		
	751 Dec 08 j 02:00	0°♑		
	752 Jan 01 j 00:13	0°♒		
	752 Jan 25 j 01:38	0°♓		
	752 Feb 18 j 08:58	0°♈		
asc. node	752 Mar 05 j 19:00	20°♈00'20		
	752 Mar 14 j 01:56	0°♉		
	752 Apr 08 j 09:52	0°♊		
	752 May 04 j 18:49	0°♋		

	752 Jun 02 j 09:08	0°♌		
evening max el	752 Jun 05 j 13:25	3°♌04'06	45°23'41	
desc. node	752 Jun 25 j 08:28	20°♌09'16		
	752 Jul 11 j 21:09	0°♍		
greatest brilliancy	752 Jul 14 j 08:00	0°♍55'16	-4.7m	
retrograde	752 Jul 24 j 05:08	2°♍40'47		
	752 Aug 04 j 22:01	30°℞♌		
evening set	752 Aug 10 j 21:10	26°♌51'50		
inferior conj	752 Aug 14 j 11:02	24°♌41'43	-8°32'22	
minimum elong	752 Aug 14 j 06:50	24°♌48'10	8°32'08	
min. Earth dist.	752 Aug 14 j 22:45	24°♌23'41	0.28401 AU	
morning rise	752 Aug 17 j 16:20	22°♌43'47		
direct	752 Sep 04 j 20:07	16°♌32'20		
greatest brilliancy	752 Sep 15 j 21:04	18°♌46'49	-4.8m	
	752 Oct 04 j 07:08	0°♍		
asc. node	752 Oct 16 j 11:39	10°♍34'54		
morning max el	752 Oct 25 j 05:54	19°♍07'44	46°41'45	
	752 Nov 04 j 15:31	0°♎		
	752 Dec 01 j 05:21	0°♏		
	752 Dec 26 j 09:56	0°♐		
	753 Jan 20 j 02:00	0°♑		
desc. node	753 Feb 05 j 01:11	19°♑33'10		
	753 Feb 13 j 13:30	0°♒		
	753 Mar 09 j 23:47	0°♓		
	753 Apr 03 j 10:16	0°♈		
	753 Apr 27 j 21:16	0°♉		
morning set	753 Apr 30 j 01:04	2°♉38'47		
	753 May 22 j 08:20	0°♊		
asc. node	753 May 29 j 04:38	8°♊24'04		
max. Earth dist.	753 Jun 04 j 09:50	16°♊02'03	1.73628 AU	
superior conj	753 Jun 05 j 15:33	17°♊33'22	0°17'35	
minimum elong	753 Jun 05 j 12:03	17°♊22'35	0°17'25	
	753 Jun 15 j 18:32	0°♋		
	753 Jul 10 j 03:20	0°♌		
evening rise	753 Jul 11 j 10:26	1°♌35'53		
	753 Aug 03 j 11:03	0°♍		
	753 Aug 27 j 18:51	0°♎		
desc. node	753 Sep 17 j 17:58	25°♎47'50		
	753 Sep 21 j 04:07	0°♏		
	753 Oct 15 j 16:12	0°♐		
	753 Nov 09 j 09:38	0°♑		
	753 Dec 04 j 15:00	0°♒		
	753 Dec 31 j 02:21	0°♓		
asc. node	754 Jan 08 j 21:17	9°♓20'34		
evening max el	754 Jan 12 j 12:37	13°♓04'32	46°50'47	
	754 Jan 30 j 15:49	0°♈		
greatest brilliancy	754 Feb 21 j 07:30	13°♈49'14	-4.8m	
retrograde	754 Mar 03 j 23:42	15°♈57'11		
evening set	754 Mar 21 j 04:02	10°♈11'04		
inferior conj	754 Mar 25 j 04:54	7°♈40'16	7°14'43	
minimum elong	754 Mar 25 j 13:49	7°♈26'11	7°13'18	
min. Earth dist.	754 Mar 25 j 02:17	7°♈44'24	0.28591 AU	
morning rise	754 Mar 29 j 23:54	4°♈43'22		
	754 Apr 10 j 09:14	30°℞♓		
direct	754 Apr 15 j 11:25	29°♓28'40		
	754 Apr 20 j 17:00	0°♈		
greatest brilliancy	754 Apr 25 j 03:12	1°♈11'27	-4.7m	
desc. node	754 Apr 30 j 10:31	3°♈23'18		
morning max el	754 Jun 03 j 08:40	29°♈27'22	45°45'30	
	754 Jun 03 j 22:20	0°♉		
	754 Jul 02 j 22:50	0°♊		
	754 Jul 29 j 14:02	0°♋		
asc. node	754 Aug 21 j 14:04	27°♋03'53		
	754 Aug 24 j 00:55	0°♌		
	754 Sep 17 j 17:45	0°♍		
	754 Oct 11 j 23:00	0°♎		
	754 Nov 04 j 21:53	0°♏		
	754 Nov 28 j 18:17	0°♐		
morning set	754 Nov 30 j 09:51	2°♐04'31		
desc. node	754 Dec 11 j 03:35	15°♐35'17		
	754 Dec 22 j 14:32	0°♑		
superior conj	755 Jan 11 j 07:41	24°♑45'33	-1°05'22	
minimum elong	755 Jan 10 j 19:56	24°♑08'42	1°05'00	
max. Earth dist.	755 Jan 14 j 21:00	29°♑13'02	1.71408 AU	
	755 Jan 15 j 11:59	0°♒		
	755 Feb 08 j 11:38	0°♓		
evening rise	755 Feb 21 j 00:13	15°♓35'55		
	755 Mar 04 j 14:46	0°♈		
	755 Mar 28 j 22:46	0°♉		
asc. node	755 Apr 03 j 06:56	6°♉32'31		
	755 Apr 22 j 12:58	0°♊		
	755 May 17 j 10:51	0°♋		
	755 Jun 11 j 19:24	0°♌		
	755 Jul 07 j 21:18	0°♍		
desc. node	755 Jul 23 j 20:10	17°♍40'45		
	755 Aug 04 j 09:39	0°♎		
evening max el	755 Aug 18 j 08:08	14°♎03'24	46°20'35	
	755 Sep 05 j 04:59	0°♏		
greatest brilliancy	755 Sep 27 j 17:18	13°♏26'33	-4.9m	
retrograde	755 Oct 06 j 21:12	14°♏59'30		
evening set	755 Oct 22 j 04:57	10°♏27'18		
inferior conj	755 Oct 27 j 11:42	7°♏20'48	-4°20'03	
minimum elong	755 Oct 27 j 20:37	7°♏07'15	4°17'32	
min. Earth dist.	755 Oct 28 j 01:15	7°♏00'13	0.26644 AU	
morning rise	755 Nov 02 j 11:52	3°♏50'17		
	755 Nov 12 j 22:58	30°℞♎		
asc. node	755 Nov 13 j 23:32	29°♎50'59		
direct	755 Nov 17 j 01:03	29°♎39'28		
	755 Nov 21 j 04:38	0°♏		
greatest brilliancy	755 Nov 27 j 17:13	1°♏49'12	-4.9m	
	756 Jan 03 j 16:33	0°♐		
morning max el	756 Jan 06 j 16:54	3°♐01'41	46°54'29	
	756 Jan 31 j 18:49	0°♑		
	756 Feb 26 j 21:51	0°♒		
desc. node	756 Mar 04 j 13:06	7°♒46'57		
	756 Mar 23 j 07:39	0°♓		
	756 Apr 17 j 09:37	0°♈		
	756 May 12 j 07:09	0°♉		
	756 Jun 06 j 01:00	0°♊		
asc. node	756 Jun 25 j 16:30	23°♊58'14		
	756 Jun 30 j 14:35	0°♋		
morning set	756 Jul 06 j 13:02	7°♋17'09		
	756 Jul 24 j 23:24	0°♌		
max. Earth dist.	756 Aug 08 j 04:23	17°♌36'06	1.72653 AU	
superior conj	756 Aug 12 j 00:04	22°♌20'42	1°22'13	
minimum elong	756 Aug 11 j 19:51	22°♌07'35	1°22'11	
	756 Aug 18 j 03:53	0°♍		
	756 Sep 11 j 05:33	0°♎		
evening rise	756 Sep 18 j 07:55	8°♎51'38		
	756 Oct 05 j 06:07	0°♏		
desc. node	756 Oct 15 j 05:58	12°♏28'41		
	756 Oct 29 j 06:54	0°♐		
	756 Nov 22 j 08:51	0°♑		
	756 Dec 16 j 13:47	0°♒		
	757 Jan 10 j 01:44	0°♓		
	757 Feb 04 j 04:24	0°♈		
asc. node	757 Feb 05 j 09:03	1°♈23'55		
	757 Mar 02 j 13:17	0°♉		
evening max el	757 Mar 24 j 13:27	22°♉53'44	45°40'35	
	757 Apr 01 j 02:11	0°♊		
greatest brilliancy	757 May 01 j 11:38	21°♊01'44	-4.7m	

retrograde	757 May 12 j 09:16	23°♊10'41	
evening set	757 May 27 j 10:46	18°♊49'20	
desc. node	757 May 27 j 22:36	18°♊33'04	
inferior conj	757 Jun 02 j 21:28	14°♊57'55	-1°23'32
minimum elong	757 Jun 02 j 18:25	15°♊02'41	1°22'39
min. Earth dist.	757 Jun 02 j 23:23	14°♊54'55	0.28974 AU
morning rise	757 Jun 09 j 01:55	11°♊14'06	
direct	757 Jun 24 j 13:07	6°♊39'52	
greatest brilliancy	757 Jul 05 j 01:28	8°♊38'03	-4.7m
	757 Aug 05 j 08:26	0°♋	
morning max el	757 Aug 12 j 12:55	6°♋43'36	45°58'25
	757 Sep 04 j 00:53	0°♌	
asc. node	757 Sep 18 j 01:59	15°♌41'47	
	757 Sep 30 j 10:28	0°♍	
	757 Oct 25 j 11:33	0°♎	
	757 Nov 18 j 20:55	0°♏	
	757 Dec 12 j 23:23	0°♐	
	758 Jan 05 j 23:42	0°♑	
desc. node	758 Jan 07 j 15:24	2°♑04'00	
	758 Jan 30 j 00:17	0°♒	
morning set	758 Feb 15 j 12:41	20°♒35'02	
	758 Feb 23 j 02:20	0°♓	
	758 Mar 19 j 06:41	0°♈	
superior conj	758 Mar 26 j 15:39	9°♈07'14	-1°10'52
minimum elong	758 Mar 27 j 00:59	9°♈36'05	1°10'37
max. Earth dist.	758 Mar 29 j 16:19	12°♈51'40	1.72930 AU
	758 Apr 12 j 13:46	0°♉	
asc. node	758 Apr 30 j 18:52	22°♉23'59	
evening rise	758 May 03 j 09:24	25°♉35'52	
	758 May 06 j 23:30	0°♊	
	758 May 31 j 11:37	0°♋	
	758 Jun 25 j 02:13	0°♌	
	758 Jul 19 j 20:30	0°♍	
	758 Aug 13 j 20:51	0°♎	
desc. node	758 Aug 20 j 08:05	7°♎41'19	
	758 Sep 08 j 07:09	0°♏	
	758 Oct 04 j 11:46	0°♐	
evening max el	758 Oct 30 j 08:48	27°♐46'34	47°19'54
	758 Nov 01 j 13:55	0°♑	
greatest brilliancy	758 Dec 10 j 01:18	29°♑24'16	-4.9m
asc. node	758 Dec 11 j 11:27	29°♑54'35	
	758 Dec 11 j 18:04	0°♒	
retrograde	758 Dec 20 j 07:22	1°♒25'50	
	758 Dec 28 j 14:07	30°℞♑	
evening set	759 Jan 04 j 22:59	26°♑33'27	
min. Earth dist.	759 Jan 09 j 02:22	24°♑04'24	0.26972 AU
inferior conj	759 Jan 10 j 00:51	23°♑29'32	6°41'49
minimum elong	759 Jan 09 j 14:40	23°♑45'20	6°39'42
morning rise	759 Jan 14 j 06:45	20°♑55'01	
direct	759 Jan 30 j 11:12	15°♑45'25	
greatest brilliancy	759 Feb 08 j 12:53	17°♑18'26	-4.9m
	759 Mar 01 j 22:35	0°♒	
morning max el	759 Mar 21 j 01:41	17°♒08'02	46°18'13
desc. node	759 Apr 02 j 00:54	29°♒14'29	
	759 Apr 02 j 18:21	0°♓	
	759 Apr 30 j 07:07	0°♈	
	759 May 26 j 11:54	0°♉	
	759 Jun 21 j 00:20	0°♊	
	759 Jul 16 j 01:00	0°♋	
asc. node	759 Jul 24 j 04:12	9°♋51'44	
	759 Aug 09 j 15:35	0°♌	
	759 Sep 02 j 21:51	0°♍	
morning set	759 Sep 14 j 18:16	14°♍46'15	
	759 Sep 26 j 22:19	0°♎	
	759 Oct 20 j 19:44	0°♏	
max. Earth dist.	759 Oct 22 j 05:50	1°♏47'11	1.71245 AU
superior conj	759 Oct 23 j 11:08	3°♏19'18	0°45'49
minimum elong	759 Oct 23 j 20:59	3°♏50'14	0°45'24
desc. node	759 Nov 12 j 17:52	28°♏49'46	
	759 Nov 13 j 16:12	0°♐	
evening rise	759 Dec 03 j 17:05	25°♐11'19	
	759 Dec 07 j 13:02	0°♑	
	759 Dec 31 j 11:23	0°♒	
	760 Jan 24 j 12:58	0°♓	
	760 Feb 17 j 20:34	0°♈	
asc. node	760 Mar 04 j 21:03	19°♈30'38	
	760 Mar 13 j 14:02	0°♉	
	760 Apr 07 j 22:59	0°♊	
	760 May 04 j 10:11	0°♋	
	760 Jun 02 j 06:54	0°♌	
evening max el	760 Jun 03 j 05:17	0°♌53'36	45°22'59
desc. node	760 Jun 24 j 10:25	19°♌00'51	
greatest brilliancy	760 Jul 11 j 20:36	28°♌40'07	-4.7m
	760 Jul 16 j 21:54	0°♍	
retrograde	760 Jul 21 j 20:09	0°♍27'12	
	760 Jul 26 j 15:24	30°℞♌	
evening set	760 Aug 08 j 09:16	24°♌41'59	
inferior conj	760 Aug 12 j 02:01	22°♌27'21	-8°27'17
minimum elong	760 Aug 11 j 21:05	22°♌34'57	8°26'56
min. Earth dist.	760 Aug 12 j 12:27	22°♌11'15	0.28446 AU
morning rise	760 Aug 15 j 08:44	20°♌27'13	
direct	760 Sep 02 j 12:19	14°♌17'32	
greatest brilliancy	760 Sep 13 j 11:26	16°♌30'32	-4.8m
	760 Oct 04 j 18:04	0°♍	
asc. node	760 Oct 15 j 13:45	9°♍39'36	
morning max el	760 Oct 22 j 21:17	16°♍50'10	46°40'28
	760 Nov 04 j 10:05	0°♎	
	760 Nov 30 j 20:08	0°♏	
	760 Dec 25 j 23:04	0°♐	
	761 Jan 19 j 14:14	0°♑	
desc. node	761 Feb 04 j 03:11	19°♑02'53	
	761 Feb 13 j 01:11	0°♒	
	761 Mar 09 j 11:05	0°♓	
	761 Apr 02 j 21:15	0°♈	
	761 Apr 27 j 08:02	0°♉	
morning set	761 Apr 27 j 18:29	0°♉32'03	
	761 May 21 j 18:57	0°♊	
asc. node	761 May 28 j 06:41	7°♊57'49	
max. Earth dist.	761 Jun 02 j 08:57	14°♊13'06	1.73631 AU
superior conj	761 Jun 03 j 09:46	15°♊29'20	0°14'30
minimum elong	761 Jun 03 j 06:51	15°♊20'22	0°14'21
behind sun begin	761 Jun 02 j 21:20	14°♊51'10	
behind sun end	761 Jun 03 j 16:22	15°♊49'35	
	761 Jun 15 j 05:08	0°♋	
evening rise	761 Jul 09 j 05:11	29°♋32'47	
	761 Jul 09 j 14:01	0°♌	
	761 Aug 02 j 21:57	0°♍	
	761 Aug 27 j 06:05	0°♎	
desc. node	761 Sep 16 j 20:06	25°♎18'48	
	761 Sep 20 j 15:46	0°♏	
	761 Oct 15 j 04:28	0°♐	
	761 Nov 08 j 22:48	0°♑	
	761 Dec 04 j 05:43	0°♒	
	761 Dec 30 j 20:40	0°♓	
asc. node	762 Jan 07 j 23:13	8°♓32'40	
evening max el	762 Jan 10 j 04:28	10°♓48'45	46°53'00
	762 Jan 31 j 01:45	0°♈	
greatest brilliancy	762 Feb 18 j 23:57	11°♈36'28	-4.8m
retrograde	762 Mar 01 j 15:53	13°♈43'57	
evening set	762 Mar 18 j 22:38	7°♈54'14	
inferior conj	762 Mar 22 j 20:45	5°♈27'18	7°25'47
minimum elong	762 Mar 23 j 05:20	5°♈13'43	7°24'30

min. Earth dist.	762 Mar 22 j 17:12	5°♈32'56	0.28558 AU
morning rise	762 Mar 27 j 12:21	2°♈35'14	
	762 Apr 01 j 10:29	30°♓	
direct	762 Apr 13 j 03:14	27°♓16'33	
greatest brilliancy	762 Apr 22 j 16:58	28°♓57'44	-4.7m
	762 Apr 25 j 10:53	0°♈	
desc. node	762 Apr 29 j 12:41	1°♈54'54	
morning max el	762 Jun 01 j 00:04	27°♈16'15	45°45'48
	762 Jun 03 j 20:02	0°♉	
	762 Jul 02 j 14:10	0°♊	
	762 Jul 29 j 03:04	0°♋	
asc. node	762 Aug 20 j 16:11	26°♋34'09	
	762 Aug 23 j 12:53	0°♌	
	762 Sep 17 j 05:10	0°♍	
	762 Oct 11 j 10:09	0°♎	
	762 Nov 04 j 08:54	0°♏	
morning set	762 Nov 27 j 20:13	29°♏31'40	
	762 Nov 28 j 05:14	0°♐	
desc. node	762 Dec 10 j 05:34	15°♐07'11	
	762 Dec 22 j 01:26	0°♑	
superior conj	763 Jan 08 j 17:52	22°♑12'54	-1°02'45
minimum elong	763 Jan 08 j 05:59	21°♑35'38	1°02'21
max. Earth dist.	763 Jan 12 j 06:30	26°♑38'22	1.71364 AU
	763 Jan 14 j 22:49	0°♒	
	763 Feb 07 j 22:25	0°♓	
evening rise	763 Feb 18 j 12:32	13°♓11'27	
	763 Mar 04 j 01:33	0°♈	
	763 Mar 28 j 09:41	0°♉	
asc. node	763 Apr 02 j 09:05	6°♉05'36	
	763 Apr 22 j 00:10	0°♊	
	763 May 16 j 22:37	0°♋	
	763 Jun 11 j 08:10	0°♌	
	763 Jul 07 j 12:00	0°♍	
desc. node	763 Jul 22 j 22:12	17°♍00'52	
	763 Aug 04 j 04:51	0°♎	
evening max el	763 Aug 15 j 20:26	11°♎40'10	46°17'54
	763 Sep 05 j 19:35	0°♏	
greatest brilliancy	763 Sep 25 j 06:38	11°♏01'46	-4.9m
retrograde	763 Oct 04 j 08:31	12°♏33'16	
evening set	763 Oct 19 j 20:08	7°♏57'02	
inferior conj	763 Oct 25 j 00:08	4°♏54'29	-4°40'43
minimum elong	763 Oct 25 j 09:30	4°♏40'12	4°38'09
min. Earth dist.	763 Oct 25 j 15:11	4°♏31'33	0.26692 AU
morning rise	763 Oct 30 j 22:22	1°♏26'07	
	763 Nov 02 j 19:02	30°♎	
asc. node	763 Nov 13 j 01:35	27°♎14'49	
direct	763 Nov 14 j 13:27	27°♎12'05	
greatest brilliancy	763 Nov 25 j 08:02	29°♎23'35	-4.9m
	763 Nov 26 j 19:24	0°♏	
	764 Jan 03 j 16:06	0°♐	
morning max el	764 Jan 04 j 05:18	0°♐33'27	46°55'05
	764 Jan 31 j 11:23	0°♑	
	764 Feb 26 j 11:46	0°♒	
desc. node	764 Mar 03 j 15:13	7°♒13'25	
	764 Mar 22 j 20:10	0°♓	
	764 Apr 16 j 21:18	0°♈	
	764 May 11 j 18:19	0°♉	
	764 Jun 05 j 11:51	0°♊	
asc. node	764 Jun 24 j 18:27	23°♊31'28	
	764 Jun 30 j 01:16	0°♋	
morning set	764 Jul 04 j 06:58	5°♋12'06	
	764 Jul 24 j 10:01	0°♌	
max. Earth dist.	764 Aug 05 j 22:39	15°♌30'51	1.72707 AU
superior conj	764 Aug 09 j 17:26	20°♌12'32	1°21'23
minimum elong	764 Aug 09 j 12:37	19°♌57'36	1°21'20
	764 Aug 17 j 14:32	0°♍	
	764 Sep 10 j 16:20	0°♎	
evening rise	764 Sep 15 j 22:21	6°♎33'07	
	764 Oct 04 j 17:06	0°♏	
desc. node	764 Oct 14 j 08:03	12°♏00'42	
	764 Oct 28 j 18:08	0°♐	
	764 Nov 21 j 20:22	0°♑	
	764 Dec 16 j 01:42	0°♒	
	765 Jan 09 j 14:15	0°♓	
	765 Feb 03 j 18:06	0°♈	
asc. node	765 Feb 04 j 11:11	0°♈49'54	
	765 Mar 02 j 05:42	0°♉	
evening max el	765 Mar 22 j 04:03	20°♉39'42	45°42'34
	765 Apr 01 j 04:06	0°♊	
greatest brilliancy	765 Apr 29 j 03:48	18°♊53'33	-4.7m
retrograde	765 May 10 j 01:52	21°♊03'24	
evening set	765 May 25 j 03:26	16°♊41'10	
desc. node	765 May 27 j 00:31	15°♊37'32	
inferior conj	765 May 31 j 14:00	12°♊50'09	-1°04'07
minimum elong	765 May 31 j 11:39	12°♊53'49	1°03'25
min. Earth dist.	765 May 31 j 16:09	12°♊46'47	0.28977 AU
morning rise	765 Jun 06 j 19:42	9°♊04'42	
direct	765 Jun 22 j 05:10	4°♊31'48	
greatest brilliancy	765 Jul 02 j 18:14	6°♊30'38	-4.7m
	765 Aug 05 j 09:11	0°♋	
morning max el	765 Aug 10 j 04:50	4°♋33'08	45°57'17
	765 Sep 03 j 17:06	0°♌	
asc. node	765 Sep 17 j 04:06	15°♌06'05	
	765 Sep 30 j 00:04	0°♍	
	765 Oct 25 j 00:01	0°♎	
	765 Nov 18 j 08:47	0°♏	
	765 Dec 12 j 10:54	0°♐	
	766 Jan 05 j 10:59	0°♑	
desc. node	766 Jan 06 j 17:23	1°♑35'02	
	766 Jan 29 j 11:22	0°♒	
morning set	766 Feb 13 j 00:24	18°♒07'51	
	766 Feb 22 j 13:16	0°♓	
	766 Mar 18 j 17:30	0°♈	
superior conj	766 Mar 24 j 06:43	6°♈52'07	-1°12'46
minimum elong	766 Mar 24 j 15:47	7°♈20'11	1°12'31
max. Earth dist.	766 Mar 27 j 07:42	10°♈37'39	1.72880 AU
	766 Apr 12 j 00:30	0°♉	
asc. node	766 Apr 29 j 20:54	21°♉57'16	
evening rise	766 May 01 j 02:50	23°♉29'08	
	766 May 06 j 10:16	0°♊	
	766 May 30 j 22:31	0°♋	
	766 Jun 24 j 13:27	0°♌	
	766 Jul 19 j 08:20	0°♍	
	766 Aug 13 j 09:35	0°♎	
desc. node	766 Aug 19 j 10:11	7°♎08'57	
	766 Sep 07 j 21:22	0°♏	
	766 Oct 04 j 04:45	0°♐	
evening max el	766 Oct 27 j 23:05	25°♐23'18	47°19'12
	766 Nov 01 j 14:18	0°♑	
greatest brilliancy	766 Dec 07 j 14:37	26°♑56'45	-4.9m
asc. node	766 Dec 10 j 13:24	27°♑55'12	
retrograde	766 Dec 17 j 21:16	28°♑58'50	
evening set	767 Jan 02 j 08:41	24°♑11'28	
min. Earth dist.	767 Jan 06 j 15:20	21°♑38'05	0.26916 AU
inferior conj	767 Jan 07 j 13:52	21°♑03'16	6°26'23
minimum elong	767 Jan 07 j 03:35	21°♑19'09	6°24'08
morning rise	767 Jan 11 j 22:56	18°♑24'40	
direct	767 Jan 28 j 00:08	13°♑19'56	
greatest brilliancy	767 Feb 06 j 01:48	14°♑53'34	-4.9m
	767 Mar 02 j 10:13	0°♒	
morning max el	767 Mar 18 j 16:16	14°♒49'41	46°19'44

desc. node	767 Apr 01 j 03:01	28°♒29'52	
	767 Apr 02 j 13:17	0°♓	
	767 Apr 29 j 21:53	0°♈	
	767 May 26 j 00:50	0°♉	
	767 Jun 20 j 12:15	0°♊	
	767 Jul 15 j 12:20	0°♋	
asc. node	767 Jul 23 j 06:23	9°♋24'13	
	767 Aug 09 j 02:38	0°♌	
	767 Sep 02 j 08:48	0°♍	
morning set	767 Sep 12 j 09:26	12°♍29'38	
	767 Sep 26 j 09:18	0°♎	
max. Earth dist.	767 Oct 19 j 14:47	29°♎09'44	1.71276 AU
	767 Oct 20 j 06:47	0°♏	
superior conj	767 Oct 20 j 23:05	0°♏51'14	0°48'58
minimum elong	767 Oct 21 j 09:14	1°♏23'08	0°48'33
desc. node	767 Nov 11 j 19:51	28°♏21'06	
	767 Nov 13 j 03:19	0°♐	
evening rise	767 Dec 01 j 02:52	22°♐36'12	
	767 Dec 07 j 00:13	0°♑	
	767 Dec 30 j 22:39	0°♒	
	768 Jan 24 j 00:24	0°♓	
	768 Feb 17 j 08:17	0°♈	
asc. node	768 Mar 03 j 23:11	19°♈00'41	
	768 Mar 13 j 02:18	0°♉	
	768 Apr 07 j 12:21	0°♊	
	768 May 04 j 01:58	0°♋	
evening max el	768 May 31 j 21:12	28°♋42'46	45°22'19
	768 Jun 02 j 05:45	0°♌	
desc. node	768 Jun 23 j 12:30	17°♌50'25	
greatest brilliancy	768 Jul 09 j 09:54	26°♌25'37	-4.7m
retrograde	768 Jul 19 j 10:50	28°♌13'29	
evening set	768 Aug 05 j 21:18	22°♌32'33	
inferior conj	768 Aug 09 j 17:05	20°♌13'05	-8°21'30
minimum elong	768 Aug 09 j 11:28	20°♌21'46	8°21'01
min. Earth dist.	768 Aug 10 j 02:30	19°♌58'31	0.28488 AU
morning rise	768 Aug 13 j 01:28	18°♌10'14	
direct	768 Aug 31 j 04:19	12°♌02'55	
greatest brilliancy	768 Sep 11 j 01:48	14°♌14'05	-4.8m
	768 Oct 05 j 02:19	0°♍	
asc. node	768 Oct 14 j 15:49	8°♍44'47	
morning max el	768 Oct 20 j 11:39	14°♍29'33	46°38'57
	768 Nov 04 j 04:27	0°♎	
	768 Nov 30 j 11:01	0°♏	
	768 Dec 25 j 12:26	0°♐	
	769 Jan 19 j 02:45	0°♑	
desc. node	769 Feb 03 j 05:24	18°♑32'27	
	769 Feb 12 j 13:07	0°♒	
	769 Mar 08 j 22:36	0°♓	
	769 Apr 02 j 08:28	0°♈	
morning set	769 Apr 25 j 11:46	28°♈24'08	
	769 Apr 26 j 19:02	0°♉	
	769 May 21 j 05:50	0°♊	
asc. node	769 May 27 j 08:41	7°♊30'33	
max. Earth dist.	769 May 31 j 06:19	12°♊17'59	1.73632 AU
superior conj	769 Jun 01 j 04:02	13°♊24'37	0°11'23
minimum elong	769 Jun 01 j 01:43	13°♊17'32	0°11'16
behind sun begin	769 May 31 j 09:48	12°♊28'40	
behind sun end	769 Jun 01 j 17:38	14°♊06'24	
	769 Jun 14 j 16:00	0°♋	
evening rise	769 Jul 07 j 00:03	27°♋29'16	
	769 Jul 09 j 00:59	0°♌	
	769 Aug 02 j 09:07	0°♍	
	769 Aug 26 j 17:34	0°♎	
desc. node	769 Sep 15 j 22:13	24°♎48'53	
	769 Sep 20 j 03:43	0°♏	
	769 Oct 14 j 17:05	0°♐	
	769 Nov 08 j 12:24	0°♑	
	769 Dec 03 j 21:02	0°♒	
	769 Dec 30 j 15:59	0°♓	
asc. node	770 Jan 07 j 01:24	7°♓43'08	
evening max el	770 Jan 07 j 19:21	8°♓28'50	46°55'12
	770 Jan 31 j 15:58	0°♈	
greatest brilliancy	770 Feb 16 j 16:57	9°♈22'36	-4.8m
retrograde	770 Feb 27 j 07:36	11°♈28'59	
evening set	770 Mar 16 j 17:05	5°♈35'49	
inferior conj	770 Mar 20 j 12:30	3°♈12'46	7°36'17
minimum elong	770 Mar 20 j 20:42	2°♈59'46	7°35'07
min. Earth dist.	770 Mar 20 j 08:16	3°♈19'29	0.28521 AU
morning rise	770 Mar 25 j 00:37	0°♈25'33	
	770 Mar 25 j 18:12	30°℞♓	
direct	770 Apr 10 j 18:26	25°♓02'53	
greatest brilliancy	770 Apr 20 j 07:02	26°♓42'52	-4.7m
	770 Apr 27 j 18:12	0°♈	
desc. node	770 Apr 28 j 14:41	0°♈27'53	
morning max el	770 May 29 j 14:31	25°♈01'35	45°46'10
	770 Jun 03 j 17:23	0°♉	
	770 Jul 02 j 05:40	0°♊	
	770 Jul 28 j 16:24	0°♋	
asc. node	770 Aug 19 j 18:16	26°♋03'24	
	770 Aug 23 j 01:09	0°♌	
	770 Sep 16 j 16:54	0°♍	
	770 Oct 10 j 21:35	0°♎	
	770 Nov 03 j 20:13	0°♏	
morning set	770 Nov 25 j 06:45	26°♏58'15	
	770 Nov 27 j 16:30	0°♐	
desc. node	770 Dec 09 j 07:38	14°♐38'16	
	770 Dec 21 j 12:42	0°♑	
superior conj	771 Jan 06 j 03:47	19°♑38'13	-0°59'58
minimum elong	771 Jan 05 j 15:53	19°♑00'51	0°59'32
max. Earth dist.	771 Jan 09 j 12:15	23°♑50'37	1.71325 AU
	771 Jan 14 j 10:03	0°♒	
	771 Feb 07 j 09:37	0°♓	
evening rise	771 Feb 16 j 00:17	10°♓43'48	
	771 Mar 03 j 12:47	0°♈	
	771 Mar 27 j 21:02	0°♉	
asc. node	771 Apr 01 j 11:03	5°♉36'52	
	771 Apr 21 j 11:49	0°♊	
	771 May 16 j 10:50	0°♋	
	771 Jun 10 j 21:26	0°♌	
	771 Jul 07 j 03:21	0°♍	
desc. node	771 Jul 22 j 00:23	16°♍19'37	
	771 Aug 04 j 01:06	0°♎	
evening max el	771 Aug 13 j 08:19	9°♎14'59	46°15'20
	771 Sep 06 j 15:41	0°♏	
greatest brilliancy	771 Sep 22 j 19:47	8°♏36'08	-4.8m
retrograde	771 Oct 01 j 20:16	10°♏06'48	
evening set	771 Oct 17 j 11:29	5°♏26'00	
inferior conj	771 Oct 22 j 12:39	2°♏27'41	-5°00'44
minimum elong	771 Oct 22 j 22:26	2°♏12'48	4°58'07
min. Earth dist.	771 Oct 23 j 05:05	2°♏02'42	0.26742 AU
	771 Oct 26 j 15:26	30°℞♎	
morning rise	771 Oct 28 j 08:48	29°♎02'04	
direct	771 Nov 12 j 02:00	24°♎44'07	
asc. node	771 Nov 12 j 03:32	24°♎44'07	
greatest brilliancy	771 Nov 22 j 22:53	26°♎57'39	-4.9m
	771 Nov 29 j 06:23	0°♏	
morning max el	772 Jan 01 j 18:28	28°♏06'16	46°55'36
	772 Jan 03 j 14:59	0°♐	
	772 Jan 31 j 04:00	0°♑	
	772 Feb 26 j 01:56	0°♒	
desc. node	772 Mar 02 j 17:15	6°♒38'39	

	772 Mar 22 j 09:03	0°♓	
	772 Apr 16 j 09:23	0°♈	
	772 May 11 j 05:53	0°♉	
	772 Jun 04 j 23:05	0°♊	
asc. node	772 Jun 23 j 20:36	23°♊04'13	
	772 Jun 29 j 12:18	0°♋	
morning set	772 Jul 02 j 00:50	3°♋05'44	
	772 Jul 23 j 20:59	0°♌	
max. Earth dist.	772 Aug 03 j 18:30	13°♌29'27	1.72760 AU
superior conj	772 Aug 07 j 10:49	18°♌03'22	1°20'26
minimum elong	772 Aug 07 j 05:26	17°♌46'40	1°20'21
	772 Aug 17 j 01:34	0°♍	
	772 Sep 10 j 03:30	0°♎	
evening rise	772 Sep 13 j 13:05	4°♎14'26	
	772 Oct 04 j 04:28	0°♏	
desc. node	772 Oct 13 j 10:02	11°♏31'15	
	772 Oct 28 j 05:42	0°♐	
	772 Nov 21 j 08:12	0°♑	
	772 Dec 15 j 13:54	0°♒	
	773 Jan 09 j 03:07	0°♓	
	773 Feb 03 j 08:14	0°♈	
asc. node	773 Feb 03 j 13:15	0°♈14'37	
	773 Mar 01 j 22:50	0°♉	
evening max el	773 Mar 19 j 19:29	18°♉26'32	45°44'34
	773 Apr 01 j 08:10	0°♊	
greatest brilliancy	773 Apr 26 j 19:46	16°♊43'57	-4.7m
retrograde	773 May 07 j 18:57	18°♊54'53	
evening set	773 May 22 j 20:17	14°♊31'41	
desc. node	773 May 26 j 02:36	12°♊38'31	
inferior conj	773 May 29 j 06:31	10°♊41'06	-0°44'29
minimum elong	773 May 29 j 04:53	10°♊43'40	0°44'01
min. Earth dist.	773 May 29 j 08:37	10°♊37'49	0.28978 AU
morning rise	773 Jun 04 j 13:23	6°♊54'22	
direct	773 Jun 19 j 21:36	2°♊22'38	
greatest brilliancy	773 Jun 30 j 10:24	4°♊21'36	-4.7m
	773 Aug 05 j 09:10	0°♋	
morning max el	773 Aug 07 j 21:28	2°♋23'40	45°56'09
	773 Sep 03 j 09:21	0°♌	
asc. node	773 Sep 16 j 06:06	14°♌29'29	
	773 Sep 29 j 13:51	0°♍	
	773 Oct 24 j 12:43	0°♎	
	773 Nov 17 j 20:54	0°♏	
	773 Dec 11 j 22:39	0°♐	
	774 Jan 04 j 22:27	0°♑	
desc. node	774 Jan 05 j 19:35	1°♑06'05	
	774 Jan 28 j 22:37	0°♒	
morning set	774 Feb 10 j 12:24	15°♒40'52	
	774 Feb 22 j 00:22	0°♓	
	774 Mar 18 j 04:31	0°♈	
superior conj	774 Mar 21 j 21:51	4°♈36'28	-1°14'32
minimum elong	774 Mar 22 j 06:35	5°♈03'31	1°14'19
max. Earth dist.	774 Mar 25 j 00:35	8°♈27'36	1.72834 AU
	774 Apr 11 j 11:28	0°♉	
evening rise	774 Apr 28 j 20:14	21°♉21'33	
asc. node	774 Apr 28 j 22:55	21°♉29'47	
	774 May 05 j 21:16	0°♊	
	774 May 30 j 09:41	0°♋	
	774 Jun 24 j 00:58	0°♌	
	774 Jul 18 j 20:25	0°♍	
	774 Aug 12 j 22:37	0°♎	
desc. node	774 Aug 18 j 12:15	6°♎35'42	
	774 Sep 07 j 11:56	0°♏	
	774 Oct 03 j 22:17	0°♐	
evening max el	774 Oct 25 j 14:16	23°♐01'50	47°18'19
	774 Nov 01 j 16:10	0°♑	
greatest brilliancy	774 Dec 05 j 04:00	24°♑28'54	-4.9m
asc. node	774 Dec 09 j 15:37	25°♑50'39	
retrograde	774 Dec 15 j 11:23	26°♑31'12	
evening set	774 Dec 30 j 18:38	21°♑49'03	
min. Earth dist.	775 Jan 04 j 04:19	19°♑11'23	0.26856 AU
inferior conj	775 Jan 05 j 02:53	18°♑36'34	6°10'04
minimum elong	775 Jan 04 j 16:36	18°♑52'25	6°07'44
morning rise	775 Jan 09 j 15:08	15°♑53'52	
direct	775 Jan 25 j 13:19	10°♑54'22	
greatest brilliancy	775 Feb 03 j 14:22	12°♑27'56	-4.9m
	775 Mar 02 j 18:51	0°♒	
morning max el	775 Mar 16 j 06:37	12°♒30'40	46°21'17
desc. node	775 Mar 31 j 05:02	27°♒45'34	
	775 Apr 02 j 07:44	0°♓	
	775 Apr 29 j 12:31	0°♈	
	775 May 25 j 13:44	0°♉	
	775 Jun 20 j 00:13	0°♊	
	775 Jul 14 j 23:47	0°♋	
asc. node	775 Jul 22 j 08:28	8°♋56'05	
	775 Aug 08 j 13:47	0°♌	
	775 Sep 01 j 19:50	0°♍	
morning set	775 Sep 10 j 00:43	10°♍13'16	
	775 Sep 25 j 20:19	0°♎	
max. Earth dist.	775 Oct 16 j 22:07	26°♎27'12	1.71310 AU
superior conj	775 Oct 18 j 11:17	28°♎23'57	0°52'00
minimum elong	775 Oct 18 j 21:39	28°♎56'31	0°51'35
	775 Oct 19 j 17:51	0°♏	
desc. node	775 Nov 10 j 21:56	27°♏52'35	
	775 Nov 12 j 14:29	0°♐	
evening rise	775 Nov 28 j 12:45	20°♐01'08	
	775 Dec 06 j 11:29	0°♑	
	775 Dec 30 j 10:01	0°♒	
	776 Jan 23 j 11:54	0°♓	
	776 Feb 16 j 20:02	0°♈	
asc. node	776 Mar 03 j 01:12	18°♈30'23	
	776 Mar 12 j 14:34	0°♉	
	776 Apr 07 j 01:45	0°♊	
	776 May 03 j 17:56	0°♋	
evening max el	776 May 29 j 12:40	26°♋30'58	45°21'33
	776 Jun 02 j 05:33	0°♌	
desc. node	776 Jun 22 j 14:39	16°♌38'09	
greatest brilliancy	776 Jul 06 j 23:59	24°♌12'10	-4.7m
retrograde	776 Jul 17 j 01:15	26°♌00'17	
evening set	776 Aug 03 j 09:21	20°♌23'55	
inferior conj	776 Aug 07 j 08:21	17°♌59'29	-8°14'52
minimum elong	776 Aug 07 j 02:05	18°♌09'11	8°14'17
min. Earth dist.	776 Aug 07 j 17:09	17°♌45'50	0.28528 AU
morning rise	776 Aug 10 j 18:38	15°♌53'28	
direct	776 Aug 28 j 19:55	9°♌48'53	
greatest brilliancy	776 Sep 08 j 16:51	11°♌58'49	-4.8m
	776 Oct 05 j 08:07	0°♍	
asc. node	776 Oct 13 j 17:51	7°♍51'06	
morning max el	776 Oct 18 j 01:19	12°♍07'27	46°37'29
	776 Nov 03 j 22:18	0°♎	
	776 Nov 30 j 01:39	0°♏	
	776 Dec 25 j 01:37	0°♐	
	777 Jan 18 j 15:06	0°♑	
desc. node	777 Feb 02 j 07:22	18°♑01'35	
	777 Feb 12 j 00:56	0°♒	
	777 Mar 08 j 10:00	0°♓	
	777 Apr 01 j 19:31	0°♈	
morning set	777 Apr 23 j 05:18	26°♈17'26	
	777 Apr 26 j 05:51	0°♉	
	777 May 20 j 16:32	0°♊	
asc. node	777 May 26 j 10:52	7°♊04'29	
max. Earth dist.	777 May 29 j 03:18	10°♊22'16	1.73633 AU

superior conj	777 May 29 j 22:36	11°♊21'28	0°08'17
minimum elong	777 May 29 j 20:54	11°♊16'17	0°08'13
behind sun begin	777 May 29 j 01:31	10°♊16'47	
behind sun end	777 May 30 j 16:17	12°♊15'48	
	777 Jun 14 j 02:42	0°♋	
evening rise	777 Jul 04 j 19:11	25°♋27'07	
	777 Jul 08 j 11:48	0°♌	
	777 Aug 01 j 20:09	0°♍	
	777 Aug 26 j 04:56	0°♎	
desc. node	777 Sep 15 j 00:10	24°♎18'48	
	777 Sep 19 j 15:34	0°♏	
	777 Oct 14 j 05:36	0°♐	
	777 Nov 08 j 01:56	0°♑	
	777 Dec 03 j 12:22	0°♒	
	777 Dec 30 j 11:38	0°♓	
evening max el	778 Jan 05 j 09:22	6°♓07'05	46°57'19
asc. node	778 Jan 06 j 03:27	6°♓52'57	
	778 Feb 01 j 10:48	0°♈	
greatest brilliancy	778 Feb 14 j 10:08	7°♈09'07	-4.8m
retrograde	778 Feb 24 j 23:08	9°♈14'25	
evening set	778 Mar 14 j 11:23	3°♈17'51	
inferior conj	778 Mar 18 j 04:15	0°♈58'42	7°46'00
minimum elong	778 Mar 18 j 12:00	0°♈46'23	7°45'00
min. Earth dist.	778 Mar 17 j 23:35	1°♈06'06	0.28481 AU
	778 Mar 19 j 17:21	30°℞♓	
morning rise	778 Mar 22 j 12:52	28°♓16'26	
direct	778 Apr 08 j 09:04	22°♓49'29	
greatest brilliancy	778 Apr 17 j 21:32	24°♓29'00	-4.7m
desc. node	778 Apr 27 j 16:43	29°♓04'19	
	778 Apr 29 j 05:43	0°♈	
morning max el	778 May 27 j 04:51	22°♈47'21	45°46'49
	778 Jun 03 j 13:40	0°♉	
	778 Jul 01 j 20:36	0°♊	
	778 Jul 28 j 05:18	0°♋	
asc. node	778 Aug 18 j 20:16	25°♋33'19	
	778 Aug 22 j 13:06	0°♌	
	778 Sep 16 j 04:21	0°♍	
	778 Oct 10 j 08:49	0°♎	
	778 Nov 03 j 07:19	0°♏	
morning set	778 Nov 22 j 17:13	24°♏25'18	
	778 Nov 27 j 03:33	0°♐	
desc. node	778 Dec 08 j 09:49	14°♐10'28	
	778 Dec 20 j 23:42	0°♑	
superior conj	779 Jan 03 j 13:30	17°♑03'39	-0°57'02
minimum elong	779 Jan 03 j 01:40	16°♑26'29	0°56'36
max. Earth dist.	779 Jan 06 j 15:40	20°♑56'24	1.71289 AU
	779 Jan 13 j 21:01	0°♒	
	779 Feb 06 j 20:34	0°♓	
evening rise	779 Feb 13 j 11:57	8°♓16'35	
	779 Mar 02 j 23:46	0°♈	
	779 Mar 27 j 08:09	0°♉	
asc. node	779 Mar 31 j 13:09	5°♉09'10	
	779 Apr 20 j 23:13	0°♊	
	779 May 15 j 22:47	0°♋	
	779 Jun 10 j 10:26	0°♌	
	779 Jul 06 j 18:29	0°♍	
desc. node	779 Jul 21 j 02:22	15°♍38'33	
	779 Aug 03 j 21:32	0°♎	
evening max el	779 Aug 10 j 20:43	6°♎52'27	46°12'43
	779 Sep 07 j 18:16	0°♏	
greatest brilliancy	779 Sep 20 j 08:19	6°♏10'56	-4.8m
retrograde	779 Sep 29 j 08:30	7°♏41'30	
evening set	779 Oct 15 j 02:55	2°♏55'43	
inferior conj	779 Oct 20 j 01:10	0°♏01'43	-5°20'03
minimum elong	779 Oct 20 j 11:18	29°♎46'20	5°17'26
	779 Oct 20 j 02:18	30°℞♎	

min. Earth dist.	779 Oct 20 j 18:40	29°♎35'10	0.26800 AU
morning rise	779 Oct 25 j 19:04	26°♎39'22	
direct	779 Nov 09 j 15:06	22°♎16'56	
asc. node	779 Nov 11 j 05:45	22°♎20'05	
greatest brilliancy	779 Nov 20 j 13:28	24°♎32'13	-4.9m
	779 Nov 30 j 19:43	0°♏	
morning max el	779 Dec 30 j 08:42	25°♏42'32	46°56'04
	780 Jan 03 j 12:43	0°♐	
	780 Jan 30 j 20:03	0°♑	
	780 Feb 25 j 15:39	0°♒	
desc. node	780 Mar 01 j 19:18	6°♒05'03	
	780 Mar 21 j 21:31	0°♓	
	780 Apr 15 j 21:06	0°♈	
	780 May 10 j 17:06	0°♉	
	780 Jun 04 j 09:58	0°♊	
asc. node	780 Jun 22 j 22:42	22°♊37'52	
	780 Jun 28 j 23:00	0°♋	
morning set	780 Jun 29 j 19:04	1°♋01'34	
	780 Jul 23 j 07:35	0°♌	
max. Earth dist.	780 Aug 01 j 15:25	11°♌32'34	1.72808 AU
superior conj	780 Aug 05 j 04:34	15°♌56'33	1°19'22
minimum elong	780 Aug 04 j 22:40	15°♌38'14	1°19'16
	780 Aug 16 j 12:13	0°♍	
	780 Sep 09 j 14:18	0°♎	
evening rise	780 Sep 11 j 04:13	1°♎58'14	
	780 Oct 03 j 15:30	0°♏	
desc. node	780 Oct 12 j 12:11	11°♏03'17	
	780 Oct 27 j 16:59	0°♐	
	780 Nov 20 j 19:47	0°♑	
	780 Dec 15 j 01:55	0°♒	
	781 Jan 08 j 15:49	0°♓	
asc. node	781 Feb 02 j 15:15	29°♓39'36	
	781 Feb 02 j 22:16	0°♈	
	781 Mar 01 j 16:02	0°♉	
evening max el	781 Mar 17 j 11:34	16°♉15'39	45°46'39
	781 Apr 01 j 13:48	0°♊	
greatest brilliancy	781 Apr 24 j 11:45	14°♊35'02	-4.7m
retrograde	781 May 05 j 12:04	16°♊46'42	
evening set	781 May 20 j 13:13	12°♊22'38	
desc. node	781 May 25 j 04:47	9°♊38'09	
inferior conj	781 May 26 j 22:53	8°♊32'30	-0°24'43
minimum elong	781 May 26 j 21:59	8°♊33'56	0°24'27
min. Earth dist.	781 May 27 j 00:48	8°♊29'30	0.28974 AU
morning rise	781 Jun 02 j 06:45	4°♊44'39	
direct	781 Jun 17 j 14:17	0°♊14'06	
greatest brilliancy	781 Jun 28 j 01:50	2°♊12'26	-4.7m
	781 Aug 05 j 07:42	0°♋	
morning max el	781 Aug 05 j 14:13	0°♋15'41	45°55'11
	781 Sep 03 j 00:55	0°♌	
asc. node	781 Sep 15 j 08:12	13°♌54'36	
	781 Sep 29 j 03:07	0°♍	
	781 Oct 24 j 00:57	0°♎	
	781 Nov 17 j 08:38	0°♏	
	781 Dec 11 j 10:04	0°♐	
	782 Jan 04 j 09:39	0°♑	
desc. node	782 Jan 04 j 21:35	0°♑37'19	
	782 Jan 28 j 09:39	0°♒	
morning set	782 Feb 07 j 23:47	13°♒12'35	
	782 Feb 21 j 11:15	0°♓	
	782 Mar 17 j 15:16	0°♈	
superior conj	782 Mar 19 j 12:22	2°♈19'37	-1°16'12
minimum elong	782 Mar 19 j 20:44	2°♈45'30	1°16'01
max. Earth dist.	782 Mar 22 j 18:44	6°♈22'06	1.72785 AU
	782 Apr 10 j 22:11	0°♉	
evening rise	782 Apr 26 j 13:15	19°♉13'32	

asc. node	782 Apr 28 j 01:05	21°♉03'31	
	782 May 05 j 08:01	0°♊	
	782 May 29 j 20:37	0°♋	
	782 Jun 23 j 12:15	0°♌	
	782 Jul 18 j 08:17	0°♍	
	782 Aug 12 j 11:23	0°♎	
desc. node	782 Aug 17 j 14:16	6°♎03'12	
	782 Sep 07 j 02:16	0°♏	
	782 Oct 03 j 15:46	0°♐	
evening max el	782 Oct 23 j 05:23	20°♐41'21	47°17'11
	782 Nov 01 j 19:00	0°♑	
greatest brilliancy	782 Dec 02 j 17:37	22°♑02'05	-4.9m
asc. node	782 Dec 08 j 17:38	23°♑41'24	
retrograde	782 Dec 13 j 01:04	24°♑03'43	
evening set	782 Dec 28 j 04:36	19°♑26'50	
min. Earth dist.	783 Jan 01 j 17:31	16°♑44'28	0.26803 AU
inferior conj	783 Jan 02 j 15:45	16°♑10'08	5°52'53
minimum elong	783 Jan 02 j 05:34	16°♑25'53	5°50'28
morning rise	783 Jan 07 j 07:08	13°♑23'05	
direct	783 Jan 23 j 02:18	8°♑29'02	
greatest brilliancy	783 Feb 01 j 03:17	10°♑02'35	-4.9m
	783 Mar 03 j 00:57	0°♒	
morning max el	783 Mar 13 j 20:07	10°♒09'34	46°22'42
desc. node	783 Mar 30 j 07:09	27°♒02'25	
	783 Apr 02 j 01:37	0°♓	
	783 Apr 29 j 02:50	0°♈	
	783 May 25 j 02:23	0°♉	
	783 Jun 19 j 11:57	0°♊	
	783 Jul 14 j 10:59	0°♋	
asc. node	783 Jul 21 j 10:25	8°♋28'10	
	783 Aug 08 j 00:44	0°♌	
	783 Sep 01 j 06:40	0°♍	
morning set	783 Sep 07 j 16:09	7°♍58'00	
	783 Sep 25 j 07:08	0°♎	
max. Earth dist.	783 Oct 14 j 04:19	23°♎41'56	1.71341 AU
superior conj	783 Oct 15 j 24:00	25°♎59'05	0°54'53
minimum elong	783 Oct 16 j 10:29	26°♎32'03	0°54'28
	783 Oct 19 j 04:41	0°♏	
desc. node	783 Nov 10 j 00:05	27°♏25'06	
	783 Nov 12 j 01:22	0°♐	
evening rise	783 Nov 25 j 22:59	17°♐28'03	
	783 Dec 05 j 22:29	0°♑	
	783 Dec 29 j 21:09	0°♒	
	784 Jan 22 j 23:13	0°♓	
	784 Feb 16 j 07:39	0°♈	
asc. node	784 Mar 02 j 03:16	18°♈00'31	
	784 Mar 12 j 02:48	0°♉	
	784 Apr 06 j 15:12	0°♊	
	784 May 03 j 10:08	0°♋	
evening max el	784 May 27 j 03:07	24°♋16'53	45°20'58
	784 Jun 02 j 06:31	0°♌	
desc. node	784 Jun 21 j 16:37	15°♌23'32	
greatest brilliancy	784 Jul 04 j 14:07	21°♌58'50	-4.7m
retrograde	784 Jul 14 j 15:22	23°♌47'20	
evening set	784 Jul 31 j 21:08	18°♌15'27	
inferior conj	784 Aug 04 j 23:31	15°♌46'03	-8°07'29
minimum elong	784 Aug 04 j 16:38	15°♌56'45	8°06'46
min. Earth dist.	784 Aug 05 j 08:02	15°♌32'51	0.28567 AU
morning rise	784 Aug 08 j 11:53	13°♌36'42	
direct	784 Aug 26 j 11:02	7°♌34'44	
greatest brilliancy	784 Sep 06 j 08:29	9°♌44'24	-4.8m
	784 Oct 05 j 11:56	0°♍	
asc. node	784 Oct 12 j 20:00	6°♍58'59	
morning max el	784 Oct 15 j 14:48	9°♍45'14	46°36'15
	784 Nov 03 j 15:38	0°♎	
	784 Nov 29 j 15:56	0°♏	
	784 Dec 24 j 14:31	0°♐	
	785 Jan 18 j 03:13	0°♑	
desc. node	785 Feb 01 j 09:25	17°♑31'38	
	785 Feb 11 j 12:33	0°♒	
	785 Mar 07 j 21:15	0°♓	
	785 Apr 01 j 06:30	0°♈	
morning set	785 Apr 20 j 22:24	24°♈09'23	
	785 Apr 25 j 16:39	0°♉	
	785 May 20 j 03:14	0°♊	
asc. node	785 May 25 j 12:54	6°♊37'55	
max. Earth dist.	785 May 26 j 22:50	8°♊22'04	1.73634 AU
superior conj	785 May 27 j 16:45	9°♊17'05	0°05'10
minimum elong	785 May 27 j 15:42	9°♊13'50	0°05'06
behind sun begin	785 May 26 j 18:16	8°♊08'03	
behind sun end	785 May 28 j 13:07	10°♊19'38	
	785 Jun 13 j 13:25	0°♋	
evening rise	785 Jul 02 j 13:59	23°♋24'05	
	785 Jul 07 j 22:37	0°♌	
	785 Aug 01 j 07:12	0°♍	
	785 Aug 25 j 16:21	0°♎	
desc. node	785 Sep 14 j 02:18	23°♎49'09	
	785 Sep 19 j 03:29	0°♏	
	785 Oct 13 j 18:13	0°♐	
	785 Nov 07 j 15:33	0°♑	
	785 Dec 03 j 03:49	0°♒	
	785 Dec 30 j 07:44	0°♓	
evening max el	786 Jan 02 j 23:04	3°♓44'53	46°59'31
asc. node	786 Jan 05 j 05:28	6°♓02'13	
	786 Feb 02 j 12:09	0°♈	
greatest brilliancy	786 Feb 12 j 02:50	4°♈55'24	-4.8m
retrograde	786 Feb 22 j 14:50	7°♈00'26	
evening set	786 Mar 12 j 05:35	1°♈00'17	
	786 Mar 13 j 20:33	30°℞♓	
inferior conj	786 Mar 15 j 20:03	28°♓44'56	7°54'57
minimum elong	786 Mar 16 j 03:19	28°♓33'25	7°54'06
min. Earth dist.	786 Mar 15 j 14:51	28°♓53'11	0.28447 AU
morning rise	786 Mar 20 j 01:16	26°♓07'44	
direct	786 Apr 05 j 23:39	20°♓36'08	
greatest brilliancy	786 Apr 15 j 12:19	22°♓15'37	-4.8m
desc. node	786 Apr 26 j 18:55	27°♓43'45	
	786 Apr 30 j 06:50	0°♈	
morning max el	786 May 24 j 20:02	20°♈34'53	45°47'22
	786 Jun 03 j 09:26	0°♉	
	786 Jul 01 j 11:30	0°♊	
	786 Jul 27 j 18:16	0°♋	
asc. node	786 Aug 17 j 22:25	25°♋03'25	
	786 Aug 22 j 01:07	0°♌	
	786 Sep 15 j 15:53	0°♍	
	786 Oct 09 j 20:06	0°♎	
greatest brilliancy	786 Oct 20 j 17:41	13°♎38'07	-3.9m
	786 Nov 02 j 18:31	0°♏	
morning set	786 Nov 20 j 03:46	21°♏52'16	
	786 Nov 26 j 14:43	0°♐	
desc. node	786 Dec 07 j 11:46	13°♐41'37	
	786 Dec 20 j 10:49	0°♑	
superior conj	786 Dec 31 j 23:17	14°♑28'55	-0°54'00
minimum elong	786 Dec 31 j 11:37	13°♑52'17	0°53'33
max. Earth dist.	787 Jan 03 j 19:18	18°♑02'27	1.71252 AU
	787 Jan 13 j 08:03	0°♒	
	787 Feb 06 j 07:34	0°♓	
evening rise	787 Feb 10 j 23:52	5°♓49'59	
	787 Mar 02 j 10:47	0°♈	
	787 Mar 26 j 19:19	0°♉	
asc. node	787 Mar 30 j 15:18	4°♉41'30	
	787 Apr 20 j 10:43	0°♊	

	787 May 15 j 10:54	0°♋	
	787 Jun 09 j 23:43	0°♌	
	787 Jul 06 j 10:05	0°♍	
desc. node	787 Jul 20 j 04:26	14°♍56'34	
	787 Aug 03 j 19:00	0°♎	
evening max el	787 Aug 08 j 10:05	4°♎31'49	46°10'13
	787 Sep 09 j 08:24	0°♏	
greatest brilliancy	787 Sep 17 j 20:10	3°♏44'39	-4.8m
retrograde	787 Sep 26 j 21:07	5°♏15'34	
evening set	787 Oct 12 j 18:25	0°♏24'49	
	787 Oct 13 j 12:00	30℞♎	
inferior conj	787 Oct 17 j 13:37	27°♎35'01	-5°38'37
minimum elong	787 Oct 18 j 00:01	27°♎19'15	5°36'03
min. Earth dist.	787 Oct 18 j 07:45	27°♎07'32	0.26858 AU
morning rise	787 Oct 23 j 05:04	24°♎16'17	
direct	787 Nov 07 j 04:39	19°♎49'13	
asc. node	787 Nov 10 j 07:48	20°♎01'02	
greatest brilliancy	787 Nov 18 j 03:22	22°♎05'21	-4.9m
	787 Dec 01 j 22:25	0°♏	
morning max el	787 Dec 27 j 23:42	23°♏20'08	46°56'28
	788 Jan 03 j 09:56	0°♐	
	788 Jan 30 j 12:02	0°♑	
	788 Feb 25 j 05:26	0°♒	
desc. node	788 Feb 29 j 21:25	5°♒31'19	
	788 Mar 21 j 10:05	0°♓	
	788 Apr 15 j 08:54	0°♈	
	788 May 10 j 04:26	0°♉	
	788 Jun 03 j 21:01	0°♊	
asc. node	788 Jun 22 j 00:39	22°♊10'29	
morning set	788 Jun 27 j 13:20	28°♊56'58	
	788 Jun 28 j 09:53	0°♋	
	788 Jul 22 j 18:27	0°♌	
max. Earth dist.	788 Jul 30 j 10:24	9°♌29'00	1.72857 AU
superior conj	788 Aug 02 j 22:13	13°♌48'41	1°18'11
minimum elong	788 Aug 02 j 15:51	13°♌28'56	1°18'04
	788 Aug 15 j 23:08	0°♍	
evening rise	788 Sep 08 j 19:13	29°♍40'47	
	788 Sep 09 j 01:23	0°♎	
	788 Oct 03 j 02:48	0°♏	
desc. node	788 Oct 11 j 14:15	10°♏34'15	
	788 Oct 27 j 04:33	0°♐	
	788 Nov 20 j 07:41	0°♑	
	788 Dec 14 j 14:16	0°♒	
	789 Jan 08 j 04:53	0°♓	
asc. node	789 Feb 01 j 17:24	29°♓03'58	
	789 Feb 02 j 12:43	0°♈	
	789 Mar 01 j 09:50	0°♉	
evening max el	789 Mar 15 j 04:22	14°♉05'59	45°48'54
	789 Apr 01 j 21:56	0°♊	
greatest brilliancy	789 Apr 22 j 04:19	12°♊26'50	-4.7m
retrograde	789 May 03 j 05:08	14°♊38'33	
evening set	789 May 18 j 06:36	10°♊13'43	
desc. node	789 May 24 j 06:41	6°♊37'57	
inferior conj	789 May 24 j 15:31	6°♊24'07	-0°05'11
minimum elong	789 May 24 j 15:19	6°♊24'25	0°05'07
transit middle	789 May 24 j 15:19	6°♊24'25	0°05'07
transit begin	789 May 24 j 11:28	6°♊30'27	
transit end	789 May 24 j 19:10	6°♊18'23	
min. Earth dist.	789 May 24 j 17:13	6°♊21'27	0.28969 AU
morning rise	789 May 31 j 00:10	2°♊35'08	
	789 Jun 05 j 11:49	30℞♉	
direct	789 Jun 15 j 07:20	28°♉05'56	
greatest brilliancy	789 Jun 25 j 17:06	0°♊02'56	-4.7m
	789 Jun 25 j 13:48	0°♊	
morning max el	789 Aug 03 j 06:40	28°♊06'19	45°53'58
	789 Aug 05 j 05:37	0°♋	
	789 Sep 02 j 16:35	0°♌	
asc. node	789 Sep 14 j 10:19	13°♌19'00	
	789 Sep 28 j 16:39	0°♍	
	789 Oct 23 j 13:31	0°♎	
	789 Nov 16 j 20:40	0°♏	
	789 Dec 10 j 21:47	0°♐	
desc. node	790 Jan 03 j 23:36	0°♑07'40	
	790 Jan 03 j 21:09	0°♑	
	790 Jan 27 j 20:59	0°♒	
morning set	790 Feb 05 j 11:00	10°♒42'51	
	790 Feb 20 j 22:27	0°♓	
superior conj	790 Mar 17 j 02:53	0°♈01'39	-1°17'45
minimum elong	790 Mar 17 j 10:47	0°♈26'08	1°17'36
	790 Mar 17 j 02:21	0°♈	
max. Earth dist.	790 Mar 20 j 13:21	4°♈16'56	1.72730 AU
	790 Apr 10 j 09:11	0°♉	
evening rise	790 Apr 24 j 06:19	17°♉04'45	
asc. node	790 Apr 27 j 03:07	20°♉35'58	
	790 May 04 j 19:02	0°♊	
	790 May 29 j 07:47	0°♋	
	790 Jun 22 j 23:48	0°♌	
	790 Jul 17 j 20:28	0°♍	
	790 Aug 12 j 00:35	0°♎	
desc. node	790 Aug 16 j 16:23	5°♎29'44	
	790 Sep 06 j 17:11	0°♏	
	790 Oct 03 j 10:08	0°♐	
evening max el	790 Oct 20 j 19:57	18°♐18'08	47°15'53
	790 Nov 02 j 00:10	0°♑	
greatest brilliancy	790 Nov 30 j 07:48	19°♑34'21	-4.9m
asc. node	790 Dec 07 j 19:37	21°♑25'10	
retrograde	790 Dec 10 j 14:06	21°♑34'25	
evening set	790 Dec 25 j 14:38	17°♑02'45	
min. Earth dist.	790 Dec 30 j 07:04	14°♑15'22	0.26749 AU
inferior conj	790 Dec 31 j 04:31	13°♑42'13	5°35'01
minimum elong	790 Dec 30 j 18:29	13°♑57'44	5°32'31
morning rise	791 Jan 04 j 22:56	10°♑50'44	
direct	791 Jan 20 j 14:44	6°♑02'08	
greatest brilliancy	791 Jan 29 j 16:41	7°♑36'14	-4.9m
	791 Mar 03 j 05:35	0°♒	
morning max el	791 Mar 11 j 08:40	7°♒44'52	46°24'12
desc. node	791 Mar 29 j 09:13	26°♒18'45	
	791 Apr 01 j 19:29	0°♓	
	791 Apr 28 j 17:20	0°♈	
	791 May 24 j 15:15	0°♉	
	791 Jun 18 j 23:54	0°♊	
	791 Jul 13 j 22:25	0°♋	
asc. node	791 Jul 20 j 12:37	8°♋00'22	
	791 Aug 07 j 11:54	0°♌	
	791 Aug 31 j 17:45	0°♍	
morning set	791 Sep 05 j 07:47	5°♍42'36	
	791 Sep 24 j 18:14	0°♎	
max. Earth dist.	791 Oct 11 j 10:56	20°♎56'56	1.71384 AU
superior conj	791 Oct 13 j 12:46	23°♎33'25	0°57'39
minimum elong	791 Oct 13 j 23:20	24°♎06'34	0°57'16
	791 Oct 18 j 15:52	0°♏	
desc. node	791 Nov 09 j 02:03	26°♏55'51	
	791 Nov 11 j 12:40	0°♐	
evening rise	791 Nov 23 j 08:56	14°♐52'53	
	791 Dec 05 j 09:53	0°♑	
	791 Dec 29 j 08:40	0°♒	
	792 Jan 22 j 10:54	0°♓	
	792 Feb 15 j 19:39	0°♈	
asc. node	792 Mar 01 j 05:23	17°♈29'42	
	792 Mar 11 j 15:25	0°♉	
	792 Apr 06 j 05:06	0°♊	

	792 May 03 j 02:55	0°♋		
evening max el	792 May 24 j 17:31	22°♋02'09	45°20'41	
	792 Jun 02 j 09:03	0°♌		
desc. node	792 Jun 20 j 18:43	14°♌06'50		
greatest brilliancy	792 Jul 02 j 04:08	19°♌45'34	-4.7m	
retrograde	792 Jul 12 j 06:08	21°♌35'19		
evening set	792 Jul 29 j 09:12	16°♌07'38		
inferior conj	792 Aug 02 j 15:04	13°♌33'21	-7°59'28	
minimum elong	792 Aug 02 j 07:35	13°♌44'56	7°58'36	
min. Earth dist.	792 Aug 02 j 23:11	13°♌20'47	0.28604 AU	
morning rise	792 Aug 06 j 05:43	11°♌20'36		
direct	792 Aug 24 j 02:25	5°♌21'18		
greatest brilliancy	792 Sep 04 j 00:45	7°♌31'20	-4.8m	
	792 Oct 05 j 14:13	0°♍		
asc. node	792 Oct 11 j 22:02	6°♍07'16		
morning max el	792 Oct 13 j 04:58	7°♍24'33	46°34'45	
	792 Nov 03 j 08:49	0°♎		
	792 Nov 29 j 06:22	0°♏		
	792 Dec 24 j 03:41	0°♐		
	793 Jan 17 j 15:40	0°♑		
desc. node	793 Jan 31 j 11:36	17°♑01'07		
	793 Feb 11 j 00:29	0°♒		
	793 Mar 07 j 08:47	0°♓		
	793 Mar 31 j 17:44	0°♈		
morning set	793 Apr 18 j 15:14	21°♈59'42		
	793 Apr 25 j 03:40	0°♉		
	793 May 19 j 14:10	0°♊		
asc. node	793 May 24 j 14:54	6°♊10'35		
superior conj	793 May 25 j 10:54	7°♊12'00	0°02'00	
minimum elong	793 May 25 j 10:30	7°♊10'46	0°01'58	
behind sun begin	793 May 24 j 12:10	6°♊02'12		
behind sun end	793 May 26 j 08:51	8°♊19'22		
max. Earth dist.	793 May 24 j 18:48	6°♊22'34	1.73631 AU	
	793 Jun 13 j 00:20	0°♋		
evening rise	793 Jun 30 j 09:05	21°♋21'28		
	793 Jul 07 j 09:37	0°♌		
	793 Jul 31 j 18:24	0°♍		
	793 Aug 25 j 03:53	0°♎		
desc. node	793 Sep 13 j 04:24	23°♎19'02		
	793 Sep 18 j 15:33	0°♏		
	793 Oct 13 j 07:00	0°♐		
	793 Nov 07 j 05:28	0°♑		
	793 Dec 02 j 19:47	0°♒		
	793 Dec 30 j 04:56	0°♓		
evening max el	793 Dec 31 j 13:16	1°♓22'41	47°01'33	
asc. node	794 Jan 04 j 07:37	5°♓09'42		
	794 Feb 04 j 01:30	0°♈		
greatest brilliancy	794 Feb 09 j 18:48	2°♈38'54	-4.8m	
retrograde	794 Feb 20 j 06:41	4°♈44'21		
	794 Mar 07 j 17:28	30°℞♓		
evening set	794 Mar 09 j 23:17	28°♓40'39		
inferior conj	794 Mar 13 j 11:30	26°♓29'01	8°03'20	
minimum elong	794 Mar 13 j 18:13	26°♓18'23	8°02'36	
min. Earth dist.	794 Mar 13 j 05:33	26°♓38'27	0.28408 AU	
morning rise	794 Mar 17 j 13:21	23°♓57'05		
direct	794 Apr 03 j 14:03	18°♓20'43		
greatest brilliancy	794 Apr 13 j 02:29	20°♓00'10	-4.8m	
desc. node	794 Apr 25 j 20:52	26°♓24'15		
	794 May 01 j 01:51	0°♈		
morning max el	794 May 22 j 11:46	18°♈23'05	45°48'05	
	794 Jun 03 j 04:51	0°♉		
	794 Jul 01 j 02:20	0°♊		
	794 Jul 27 j 07:14	0°♋		
asc. node	794 Aug 17 j 00:28	24°♋33'13		
	794 Aug 21 j 13:08	0°♌		
	794 Sep 15 j 03:23	0°♍		
	794 Oct 09 j 07:21	0°♎		
greatest brilliancy	794 Oct 25 j 03:57	19°♎51'33	-3.9m	
	794 Nov 02 j 05:41	0°♏		
morning set	794 Nov 17 j 14:55	19°♏21'14		
	794 Nov 26 j 01:51	0°♐		
desc. node	794 Dec 06 j 13:51	13°♐13'14		
	794 Dec 19 j 21:56	0°♑		
superior conj	794 Dec 29 j 08:57	11°♑53'32	-0°50'49	
minimum elong	794 Dec 28 j 21:34	11°♑17'46	0°50'21	
max. Earth dist.	795 Jan 01 j 01:35	15°♑16'35	1.71228 AU	
	795 Jan 12 j 19:10	0°♒		
	795 Feb 05 j 18:41	0°♓		
evening rise	795 Feb 08 j 11:17	3°♓21'21		
	795 Mar 01 j 21:57	0°♈		
	795 Mar 26 j 06:38	0°♉		
asc. node	795 Mar 29 j 17:15	4°♉12'47		
	795 Apr 19 j 22:20	0°♊		
	795 May 14 j 23:09	0°♋		
	795 Jun 09 j 13:09	0°♌		
	795 Jul 06 j 01:57	0°♍		
desc. node	795 Jul 19 j 06:34	14°♍14'16		
	795 Aug 03 j 17:14	0°♎		
evening max el	795 Aug 06 j 00:26	2°♎13'56	46°07'49	
	795 Sep 11 j 18:57	0°♏		
greatest brilliancy	795 Sep 15 j 08:04	1°♏19'35	-4.8m	
retrograde	795 Sep 24 j 09:58	2°♏50'44		
	795 Oct 06 j 09:20	30°℞♎		
evening set	795 Oct 10 j 10:14	27°♎55'20		
inferior conj	795 Oct 15 j 02:19	25°♎09'39	-5°56'24	
minimum elong	795 Oct 15 j 12:52	24°♎53'38	5°53'54	
min. Earth dist.	795 Oct 15 j 20:47	24°♎41'39	0.26914 AU	
morning rise	795 Oct 20 j 15:03	21°♎54'42		
direct	795 Nov 04 j 18:41	17°♎23'10		
asc. node	795 Nov 09 j 09:45	17°♎48'48		
greatest brilliancy	795 Nov 15 j 16:55	19°♎39'14	-4.9m	
	795 Dec 02 j 17:33	0°♏		
morning max el	795 Dec 25 j 14:23	20°♏57'40	46°56'35	
	796 Jan 03 j 06:11	0°♐		
	796 Jan 30 j 03:37	0°♑		
	796 Feb 24 j 19:01	0°♒		
desc. node	796 Feb 28 j 23:27	4°♒57'43		
	796 Mar 20 j 22:34	0°♓		
	796 Apr 14 j 20:42	0°♈		
	796 May 09 j 15:45	0°♉		
	796 Jun 03 j 08:00	0°♊		
asc. node	796 Jun 21 j 02:50	21°♊43'58		
morning set	796 Jun 25 j 07:19	26°♊51'51		
	796 Jun 27 j 20:40	0°♋		
	796 Jul 22 j 05:11	0°♌		
max. Earth dist.	796 Jul 28 j 04:03	7°♌21'44	1.72903 AU	
superior conj	796 Jul 31 j 15:49	11°♌41'06	1°16'54	
minimum elong	796 Jul 31 j 09:01	11°♌20'02	1°16'46	
	796 Aug 15 j 09:57	0°♍		
evening rise	796 Sep 06 j 10:24	27°♍24'22		
	796 Sep 08 j 12:21	0°♎		
	796 Oct 02 j 13:57	0°♏		
desc. node	796 Oct 10 j 16:13	10°♏05'22		
	796 Oct 26 j 15:56	0°♐		
	796 Nov 19 j 19:21	0°♑		
	796 Dec 14 j 02:22	0°♒		
	797 Jan 07 j 17:44	0°♓		
asc. node	797 Jan 31 j 19:27	28°♓28'33		
	797 Feb 02 j 03:04	0°♈		
	797 Mar 01 j 03:54	0°♉		
evening max el	797 Mar 12 j 20:44	11°♉55'20	45°50'51	

	797 Apr 02 j 09:02	0°♊	
greatest brilliancy	797 Apr 19 j 21:23	10°♊18'50	-4.7m
retrograde	797 Apr 30 j 21:29	12°♊29'45	
evening set	797 May 15 j 23:54	8°♊04'07	
inferior conj	797 May 22 j 07:55	4°♊15'19	0°14'36
minimum elong	797 May 22 j 08:27	4°♊14'28	0°14'27
transit middle	797 May 22 j 08:27	4°♊14'28	0°14'27
transit begin	797 May 22 j 06:37	4°♊17'22	
transit end	797 May 22 j 10:18	4°♊11'35	
min. Earth dist.	797 May 22 j 09:45	4°♊12'27	0.28963 AU
desc. node	797 May 23 j 08:47	3°♊36'19	
morning rise	797 May 28 j 17:11	0°♊25'11	
	797 May 29 j 11:54	30°℞♉	
direct	797 Jun 12 j 23:55	25°♉57'24	
greatest brilliancy	797 Jun 23 j 08:25	27°♉53'12	-4.7m
	797 Jun 28 j 07:44	0°♊	
morning max el	797 Jul 31 j 21:59	25°♊54'40	45°52'53
	797 Aug 05 j 02:36	0°♋	
	797 Sep 02 j 07:48	0°♌	
asc. node	797 Sep 13 j 12:19	12°♌44'05	
	797 Sep 28 j 05:50	0°♍	
	797 Oct 23 j 01:45	0°♎	
	797 Nov 16 j 08:23	0°♏	
	797 Dec 10 j 09:10	0°♐	
desc. node	798 Jan 03 j 01:47	29°♐39'38	
	798 Jan 03 j 08:18	0°♑	
	798 Jan 27 j 07:57	0°♒	
morning set	798 Feb 02 j 22:30	8°♒14'57	
	798 Feb 20 j 09:17	0°♓	
superior conj	798 Mar 14 j 17:26	27°♓44'47	-1°19'10
minimum elong	798 Mar 15 j 00:48	28°♓07'35	1°19'02
	798 Mar 16 j 13:05	0°♈	
max. Earth dist.	798 Mar 18 j 08:16	2°♈13'43	1.72680 AU
	798 Apr 09 j 19:53	0°♉	
evening rise	798 Apr 21 j 23:06	14°♉55'49	
asc. node	798 Apr 26 j 05:08	20°♉09'10	
	798 May 04 j 05:48	0°♊	
	798 May 28 j 18:46	0°♋	
	798 Jun 22 j 11:09	0°♌	
	798 Jul 17 j 08:27	0°♍	
	798 Aug 11 j 13:36	0°♎	
desc. node	798 Aug 15 j 18:25	4°♎56'43	
	798 Sep 06 j 07:59	0°♏	
	798 Oct 03 j 04:36	0°♐	
evening max el	798 Oct 18 j 09:33	15°♐53'25	47°14'30
	798 Nov 02 j 06:57	0°♑	
greatest brilliancy	798 Nov 27 j 22:24	17°♑07'59	-4.9m
asc. node	798 Dec 06 j 21:50	19°♑04'29	
retrograde	798 Dec 08 j 02:37	19°♑06'14	
evening set	798 Dec 23 j 00:48	14°♑39'19	
min. Earth dist.	798 Dec 27 j 21:00	11°♑46'50	0.26695 AU
inferior conj	798 Dec 28 j 17:17	11°♑15'30	5°16'19
minimum elong	798 Dec 28 j 07:29	11°♑30'38	5°13'47
morning rise	799 Jan 02 j 14:41	8°♑19'41	
direct	799 Jan 18 j 02:40	3°♑36'12	
greatest brilliancy	799 Jan 27 j 06:40	5°♑11'41	-4.9m
	799 Mar 03 j 07:55	0°♒	
morning max el	799 Mar 08 j 20:49	5°♒20'19	46°25'50
desc. node	799 Mar 28 j 11:14	25°♒36'55	
	799 Apr 01 j 12:26	0°♓	
	799 Apr 28 j 07:12	0°♈	
	799 May 24 j 03:39	0°♉	
	799 Jun 18 j 11:30	0°♊	
	799 Jul 13 j 09:33	0°♋	
asc. node	799 Jul 19 j 14:40	7°♋33'00	
	799 Aug 06 j 22:47	0°♌	
	799 Aug 31 j 04:32	0°♍	
morning set	799 Sep 02 j 23:14	3°♍27'37	
	799 Sep 24 j 05:00	0°♎	
max. Earth dist.	799 Oct 08 j 20:26	18°♎22'09	1.71427 AU
superior conj	799 Oct 11 j 01:31	21°♎08'48	1°00'19
minimum elong	799 Oct 11 j 12:04	21°♎41'54	0°59'57
	799 Oct 18 j 02:42	0°♏	
desc. node	799 Nov 08 j 04:09	26°♏28'06	
	799 Nov 10 j 23:36	0°♐	
evening rise	799 Nov 20 j 19:00	12°♐19'17	
	799 Dec 04 j 20:56	0°♑	
	799 Dec 28 j 19:51	0°♒	
	800 Jan 21 j 22:13	0°♓	
	800 Feb 15 j 07:15	0°♈	
asc. node	800 Feb 29 j 07:23	16°♈59'43	
	800 Mar 11 j 03:39	0°♉	
	800 Apr 05 j 18:39	0°♊	
	800 May 02 j 19:36	0°♋	
evening max el	800 May 22 j 07:57	19°♋48'39	45°20'18
	800 Jun 02 j 12:49	0°♌	
desc. node	800 Jun 19 j 20:51	12°♌48'29	
greatest brilliancy	800 Jun 29 j 17:21	17°♌32'00	-4.7m
retrograde	800 Jul 09 j 21:15	19°♌23'41	
evening set	800 Jul 26 j 20:59	14°♌00'04	
inferior conj	800 Jul 31 j 06:23	11°♌20'50	-7°50'37
minimum elong	800 Jul 30 j 22:24	11°♌33'11	7°49'36
min. Earth dist.	800 Jul 31 j 13:54	11°♌09'12	0.28644 AU
morning rise	800 Aug 03 j 23:32	9°♌04'30	
direct	800 Aug 21 j 17:52	3°♌07'59	
greatest brilliancy	800 Sep 01 j 16:45	5°♌18'30	-4.8m
	800 Oct 05 j 14:54	0°♍	
morning max el	800 Oct 10 j 19:53	5°♍06'42	46°33'24
asc. node	800 Oct 11 j 00:04	5°♍17'11	
	800 Nov 03 j 01:21	0°♎	
	800 Nov 28 j 20:20	0°♏	
	800 Dec 23 j 16:26	0°♐	
	801 Jan 17 j 03:42	0°♑	
desc. node	801 Jan 30 j 13:33	16°♑31'01	
	801 Feb 10 j 12:01	0°♒	
	801 Mar 06 j 19:56	0°♓	
	801 Mar 31 j 04:35	0°♈	
morning set	801 Apr 16 j 08:12	19°♈51'26	
	801 Apr 24 j 14:19	0°♉	
	801 May 19 j 00:43	0°♊	
max. Earth dist.	801 May 22 j 16:53	4°♊30'40	1.73630 AU
superior conj	801 May 23 j 05:11	5°♊08'26	-0°01'12
minimum elong	801 May 23 j 05:24	5°♊09'07	0°01'10
behind sun begin	801 May 22 j 06:58	4°♊00'13	
behind sun end	801 May 24 j 03:51	6°♊18'00	
asc. node	801 May 23 j 17:05	5°♊44'57	
	801 Jun 12 j 10:54	0°♋	
evening rise	801 Jun 28 j 04:18	19°♋20'12	
	801 Jul 06 j 20:20	0°♌	
	801 Jul 31 j 05:22	0°♍	
	801 Aug 24 j 15:14	0°♎	
desc. node	801 Sep 12 j 06:21	22°♎49'03	
	801 Sep 18 j 03:26	0°♏	
	801 Oct 12 j 19:38	0°♐	
	801 Nov 06 j 19:14	0°♑	
	801 Dec 02 j 11:41	0°♒	
evening max el	801 Dec 29 j 04:24	29°♒03'49	47°03'39
	801 Dec 30 j 02:31	0°♓	
asc. node	802 Jan 03 j 09:39	4°♓16'57	
	802 Feb 06 j 11:19	0°♈	
greatest brilliancy	802 Feb 07 j 10:11	0°♈22'39	-4.9m

retrograde	802 Feb 17 j 22:58	2°♈29'06	
	802 Feb 28 j 22:33	30°℞♓	
evening set	802 Mar 07 j 16:53	26°♓22'01	
inferior conj	802 Mar 11 j 02:57	24°♓13'50	8°10'56
minimum elong	802 Mar 11 j 09:07	24°♓04'07	8°10'20
min. Earth dist.	802 Mar 10 j 19:53	24°♓25'00	0.28368 AU
morning rise	802 Mar 15 j 01:32	21°♓47'06	
direct	802 Apr 01 j 04:59	16°♓06'11	
greatest brilliancy	802 Apr 10 j 16:09	17°♓45'04	-4.8m
desc. node	802 Apr 24 j 22:57	25°♓08'25	
	802 May 01 j 15:33	0°♈	
morning max el	802 May 20 j 04:07	16°♈13'45	45°48'51
	802 Jun 02 j 23:21	0°♉	
	802 Jun 30 j 16:39	0°♊	
	802 Jul 26 j 19:49	0°♋	
asc. node	802 Aug 16 j 02:28	24°♋03'39	
	802 Aug 21 j 00:53	0°♌	
	802 Sep 14 j 14:44	0°♍	
	802 Oct 08 j 18:30	0°♎	
greatest brilliancy	802 Oct 27 j 06:53	23°♎11'57	-3.9m
	802 Nov 01 j 16:45	0°♏	
morning set	802 Nov 15 j 01:55	16°♏50'05	
	802 Nov 25 j 12:52	0°♐	
desc. node	802 Dec 05 j 16:01	12°♐45'25	
	802 Dec 19 j 08:55	0°♑	
superior conj	802 Dec 26 j 18:19	9°♑17'41	-0°47'30
minimum elong	802 Dec 26 j 07:20	8°♑43'07	0°47'03
max. Earth dist.	802 Dec 29 j 10:43	12°♑40'00	1.71199 AU
	803 Jan 12 j 06:07	0°♒	
	803 Feb 05 j 05:37	0°♓	
evening rise	803 Feb 05 j 22:37	0°♓52'59	
	803 Mar 01 j 08:58	0°♈	
	803 Mar 25 j 17:47	0°♉	
asc. node	803 Mar 28 j 19:21	3°♉45'00	
	803 Apr 19 j 09:49	0°♊	
	803 May 14 j 11:15	0°♋	
	803 Jun 09 j 02:29	0°♌	
	803 Jul 05 j 17:52	0°♍	
desc. node	803 Jul 18 j 08:34	13°♍31'40	
evening max el	803 Aug 03 j 14:46	29°♍56'33	46°05'09
	803 Aug 03 j 16:12	0°♎	
greatest brilliancy	803 Sep 12 j 20:02	28°♎54'51	-4.8m
	803 Sep 17 j 04:07	0°♏	
retrograde	803 Sep 21 j 22:12	0°♏25'43	
	803 Sep 26 j 13:31	30°℞♎	
evening set	803 Oct 08 j 02:02	25°♎25'46	
inferior conj	803 Oct 12 j 14:55	22°♎44'11	-6°13'31
minimum elong	803 Oct 13 j 01:34	22°♎28'00	6°11'05
min. Earth dist.	803 Oct 13 j 09:49	22°♎15'28	0.26975 AU
morning rise	803 Oct 18 j 00:41	19°♎33'02	
direct	803 Nov 02 j 08:38	14°♎56'55	
asc. node	803 Nov 08 j 11:57	15°♎41'30	
greatest brilliancy	803 Nov 13 j 06:31	17°♎12'41	-4.9m
	803 Dec 03 j 08:03	0°♏	
morning max el	803 Dec 23 j 04:06	18°♏32'18	46°56'44
	804 Jan 03 j 01:57	0°♐	
	804 Jan 29 j 19:02	0°♑	
	804 Feb 24 j 08:29	0°♒	
desc. node	804 Feb 28 j 01:30	4°♒24'26	
	804 Mar 20 j 10:56	0°♓	
	804 Apr 14 j 08:23	0°♈	
	804 May 09 j 02:59	0°♉	
	804 Jun 02 j 18:55	0°♊	
asc. node	804 Jun 20 j 04:53	21°♊17'14	
morning set	804 Jun 23 j 01:41	24°♊48'02	
	804 Jun 27 j 07:25	0°♋	
	804 Jul 21 j 15:53	0°♌	
max. Earth dist.	804 Jul 25 j 21:21	5°♌13'38	1.72948 AU
superior conj	804 Jul 29 j 09:55	9°♌35'18	1°15'31
minimum elong	804 Jul 29 j 02:42	9°♌13'00	1°15'21
	804 Aug 14 j 20:44	0°♍	
evening rise	804 Sep 04 j 02:04	25°♍09'35	
	804 Sep 07 j 23:19	0°♎	
	804 Oct 02 j 01:09	0°♏	
desc. node	804 Oct 09 j 18:23	9°♏36'56	
	804 Oct 26 j 03:25	0°♐	
	804 Nov 19 j 07:11	0°♑	
	804 Dec 13 j 14:42	0°♒	
	805 Jan 07 j 06:51	0°♓	
asc. node	805 Jan 30 j 21:27	27°♓52'21	
	805 Feb 01 j 17:44	0°♈	
	805 Feb 28 j 22:31	0°♉	
evening max el	805 Mar 10 j 12:11	9°♉42'01	45°53'03
	805 Apr 02 j 23:58	0°♊	
greatest brilliancy	805 Apr 17 j 14:58	8°♊11'26	-4.7m
retrograde	805 Apr 28 j 13:37	10°♊21'20	
evening set	805 May 13 j 17:31	5°♊54'32	
inferior conj	805 May 20 j 00:32	2°♊06'53	0°34'18
minimum elong	805 May 20 j 01:47	2°♊04'55	0°33'56
min. Earth dist.	805 May 20 j 02:43	2°♊03'26	0.28955 AU
desc. node	805 May 22 j 10:58	0°♊35'34	
	805 May 23 j 10:13	30°℞♉	
morning rise	805 May 26 j 10:11	28°♉15'45	
direct	805 Jun 10 j 16:17	23°♉49'07	
greatest brilliancy	805 Jun 21 j 00:27	25°♉44'17	-4.7m
	805 Jun 30 j 00:04	0°♊	
morning max el	805 Jul 29 j 12:47	23°♊41'39	45°51'59
	805 Aug 04 j 22:55	0°♋	
	805 Sep 01 j 22:51	0°♌	
asc. node	805 Sep 12 j 14:23	12°♌09'29	
	805 Sep 27 j 18:58	0°♍	
	805 Oct 22 j 14:01	0°♎	
	805 Nov 15 j 20:12	0°♏	
	805 Dec 09 j 20:43	0°♐	
desc. node	806 Jan 02 j 03:46	29°♐10'13	
	806 Jan 02 j 19:40	0°♑	
	806 Jan 26 j 19:11	0°♒	
morning set	806 Jan 31 j 09:19	5°♒43'58	
	806 Feb 19 j 20:23	0°♓	
superior conj	806 Mar 12 j 07:30	25°♓25'37	-1°20'28
minimum elong	806 Mar 12 j 14:16	25°♓46'34	1°20'22
max. Earth dist.	806 Mar 16 j 01:23	0°♈04'05	1.72621 AU
	806 Mar 16 j 00:04	0°♈	
	806 Apr 09 j 06:49	0°♉	
evening rise	806 Apr 19 j 15:34	12°♉45'16	
asc. node	806 Apr 25 j 07:17	19°♉42'08	
	806 May 03 j 16:47	0°♊	
	806 May 28 j 05:58	0°♋	
	806 Jun 21 j 22:45	0°♌	
	806 Jul 16 j 20:41	0°♍	
	806 Aug 11 j 02:53	0°♎	
desc. node	806 Aug 14 j 20:27	4°♎23'03	
	806 Sep 05 j 23:06	0°♏	
	806 Oct 02 j 23:42	0°♐	
evening max el	806 Oct 15 j 22:15	13°♐26'10	47°13'01
	806 Nov 02 j 16:28	0°♑	
greatest brilliancy	806 Nov 25 j 12:46	14°♑40'43	-4.9m
retrograde	806 Dec 05 j 15:01	16°♑37'32	
asc. node	806 Dec 05 j 23:48	16°♑37'22	
evening set	806 Dec 20 j 11:06	12°♑14'32	
min. Earth dist.	806 Dec 25 j 11:01	9°♑17'18	0.26653 AU

inferior conj	806 Dec 26 j 06:02	8°♑47'57	4°56'49
minimum elong	806 Dec 25 j 20:33	9°♑02'34	4°54'18
morning rise	806 Dec 31 j 06:25	5°♑47'59	
direct	807 Jan 15 j 14:29	1°♑08'59	
greatest brilliancy	807 Jan 24 j 21:08	2°♑46'29	-4.9m
	807 Mar 03 j 09:24	0°♒	
morning max el	807 Mar 06 j 09:28	2°♒55'31	46°27'26
desc. node	807 Mar 27 j 13:21	24°♒54'37	
	807 Apr 01 j 05:31	0°♓	
	807 Apr 27 j 21:20	0°♈	
	807 May 23 j 16:19	0°♉	
	807 Jun 17 j 23:20	0°♊	
	807 Jul 12 j 20:56	0°♋	
asc. node	807 Jul 18 j 16:37	7°♋04'35	
	807 Aug 06 j 09:56	0°♌	
	807 Aug 30 j 15:35	0°♍	
morning set	807 Aug 31 j 15:06	1°♍13'10	
	807 Sep 23 j 16:03	0°♎	
max. Earth dist.	807 Oct 06 j 08:50	15°♎55'36	1.71467 AU
superior conj	807 Oct 08 j 14:51	18°♎45'11	1°02'50
minimum elong	807 Oct 09 j 01:19	19°♎18'00	1°02'28
	807 Oct 17 j 13:47	0°♏	
desc. node	807 Nov 07 j 06:17	25°♏59'41	
	807 Nov 10 j 10:47	0°♐	
evening rise	807 Nov 18 j 05:39	9°♐46'51	
	807 Dec 04 j 08:14	0°♑	
	807 Dec 28 j 07:17	0°♒	
	808 Jan 21 j 09:52	0°♓	
	808 Feb 14 j 19:16	0°♈	
asc. node	808 Feb 28 j 09:28	16°♈28'43	
	808 Mar 10 j 16:23	0°♉	
	808 Apr 05 j 08:48	0°♊	
	808 May 02 j 13:06	0°♋	
evening max el	808 May 19 j 23:09	17°♋36'00	45°20'14
	808 Jun 02 j 19:00	0°♌	
desc. node	808 Jun 18 j 22:48	11°♌26'34	
greatest brilliancy	808 Jun 27 j 06:24	15°♌17'41	-4.7m
retrograde	808 Jul 07 j 12:58	17°♌11'34	
evening set	808 Jul 24 j 08:58	11°♌52'02	
inferior conj	808 Jul 28 j 21:51	9°♌07'48	-7°41'07
minimum elong	808 Jul 28 j 13:25	9°♌20'50	7°39'58
min. Earth dist.	808 Jul 29 j 04:24	8°♌57'40	0.28679 AU
morning rise	808 Aug 01 j 17:37	6°♌47'45	
direct	808 Aug 19 j 09:57	0°♌54'20	
greatest brilliancy	808 Aug 30 j 08:17	3°♌04'40	-4.8m
	808 Oct 05 j 14:47	0°♍	
morning max el	808 Oct 08 j 11:42	2°♍50'30	46°32'01
asc. node	808 Oct 10 j 02:13	4°♍27'27	
	808 Nov 02 j 17:55	0°♎	
	808 Nov 28 j 10:26	0°♏	
	808 Dec 23 j 05:22	0°♐	
	809 Jan 16 j 15:57	0°♑	
desc. node	809 Jan 29 j 15:38	16°♑00'35	
	809 Feb 09 j 23:48	0°♒	
	809 Mar 06 j 07:22	0°♓	
	809 Mar 30 j 15:47	0°♈	
morning set	809 Apr 14 j 00:56	17°♈41'15	
	809 Apr 24 j 01:22	0°♉	
	809 May 18 j 11:40	0°♊	
superior conj	809 May 20 j 23:09	3°♊02'37	-0°04'23
minimum elong	809 May 21 j 00:03	3°♊05'24	0°04'20
behind sun begin	809 May 20 j 02:11	1°♊58'14	
behind sun end	809 May 21 j 21:55	4°♊12'32	
max. Earth dist.	809 May 20 j 15:29	2°♊39'04	1.73625 AU
asc. node	809 May 22 j 19:06	5°♊17'33	
	809 Jun 11 j 21:51	0°♋	
evening rise	809 Jun 25 j 23:21	17°♋17'24	
	809 Jul 06 j 07:23	0°♌	
	809 Jul 30 j 16:40	0°♍	
	809 Aug 24 j 02:56	0°♎	
desc. node	809 Sep 11 j 08:30	22°♎18'37	
	809 Sep 17 j 15:42	0°♏	
	809 Oct 12 j 08:40	0°♐	
	809 Nov 06 j 09:26	0°♑	
	809 Dec 02 j 04:08	0°♒	
evening max el	809 Dec 26 j 20:20	26°♒46'13	47°05'40
	809 Dec 30 j 01:13	0°♓	
asc. node	810 Jan 02 j 11:40	3°♓22'28	
greatest brilliancy	810 Feb 05 j 01:24	28°♓05'37	-4.9m
	810 Feb 12 j 08:31	0°♈	
retrograde	810 Feb 15 j 15:25	0°♈13'02	
	810 Feb 18 j 21:04	30°℞♓	
evening set	810 Mar 05 j 10:20	24°♓03'06	
inferior conj	810 Mar 08 j 18:27	21°♓57'53	8°17'43
minimum elong	810 Mar 08 j 23:59	21°♓49'09	8°17'15
min. Earth dist.	810 Mar 08 j 09:59	22°♓11'16	0.28327 AU
morning rise	810 Mar 12 j 13:53	19°♓36'06	
direct	810 Mar 29 j 20:25	13°♓51'04	
greatest brilliancy	810 Apr 08 j 05:24	15°♓28'41	-4.8m
desc. node	810 Apr 24 j 01:07	23°♓54'12	
	810 May 02 j 02:10	0°♈	
morning max el	810 May 17 j 20:27	14°♈03'21	45°49'27
	810 Jun 02 j 17:48	0°♉	
	810 Jun 30 j 07:12	0°♊	
	810 Jul 26 j 08:42	0°♋	
asc. node	810 Aug 15 j 04:38	23°♋33'41	
	810 Aug 20 j 12:54	0°♌	
	810 Sep 14 j 02:18	0°♍	
	810 Oct 08 j 05:53	0°♎	
greatest brilliancy	810 Oct 27 j 18:56	24°♎29'40	-3.9m
	810 Nov 01 j 04:03	0°♏	
morning set	810 Nov 12 j 13:04	14°♏18'43	
	810 Nov 25 j 00:09	0°♐	
desc. node	810 Dec 04 j 17:58	12°♐16'07	
	810 Dec 18 j 20:09	0°♑	
superior conj	810 Dec 24 j 03:49	6°♑41'20	-0°44'06
minimum elong	810 Dec 23 j 17:20	6°♑08'22	0°43'39
max. Earth dist.	810 Dec 26 j 19:57	10°♑02'54	1.71169 AU
	811 Jan 11 j 17:18	0°♒	
evening rise	811 Feb 03 j 10:01	28°♒23'57	
	811 Feb 04 j 16:48	0°♓	
	811 Feb 28 j 20:11	0°♈	
	811 Mar 25 j 05:10	0°♉	
asc. node	811 Mar 27 j 21:29	3°♉16'40	
	811 Apr 18 j 21:33	0°♊	
	811 May 13 j 23:41	0°♋	
	811 Jun 08 j 16:15	0°♌	
	811 Jul 05 j 10:24	0°♍	
desc. node	811 Jul 17 j 10:39	12°♍47'55	
evening max el	811 Aug 01 j 04:35	27°♍37'12	46°02'37
	811 Aug 03 j 16:34	0°♎	
greatest brilliancy	811 Sep 10 j 08:43	26°♎30'51	-4.8m
retrograde	811 Sep 19 j 10:12	28°♎00'53	
evening set	811 Oct 05 j 18:03	22°♎56'29	
inferior conj	811 Oct 10 j 03:47	20°♎19'03	-6°29'39
minimum elong	811 Oct 10 j 14:25	20°♎02'51	6°27'20
min. Earth dist.	811 Oct 10 j 23:14	19°♎49'24	0.27034 AU
morning rise	811 Oct 15 j 10:22	17°♎11'50	
direct	811 Oct 30 j 22:12	12°♎31'00	
asc. node	811 Nov 07 j 13:59	13°♎39'15	
greatest brilliancy	811 Nov 10 j 20:37	14°♎46'44	-4.9m

	811 Dec 03 j 19:01	0°♏	
morning max el	811 Dec 20 j 17:01	16°♏04'25	46°56'44
	812 Jan 02 j 21:18	0°♐	
	812 Jan 29 j 10:22	0°♑	
	812 Feb 23 j 21:59	0°♒	
desc. node	812 Feb 27 j 03:37	3°♒51'05	
	812 Mar 19 j 23:23	0°♓	
	812 Apr 13 j 20:09	0°♈	
	812 May 08 j 14:18	0°♉	
	812 Jun 02 j 05:57	0°♊	
asc. node	812 Jun 19 j 06:52	20°♊49'52	
morning set	812 Jun 20 j 20:01	22°♊43'39	
	812 Jun 26 j 18:19	0°♋	
	812 Jul 21 j 02:46	0°♌	
max. Earth dist.	812 Jul 23 j 14:13	3°♌03'44	1.72997 AU
superior conj	812 Jul 27 j 03:57	7°♌28'53	1°14'01
minimum elong	812 Jul 26 j 20:24	7°♌05'31	1°13'51
	812 Aug 14 j 07:42	0°♍	
evening rise	812 Sep 01 j 17:41	22°♍54'19	
	812 Sep 07 j 10:25	0°♎	
	812 Oct 01 j 12:28	0°♏	
desc. node	812 Oct 08 j 20:26	9°♏07'48	
	812 Oct 25 j 15:00	0°♐	
	812 Nov 18 j 19:09	0°♑	
	812 Dec 13 j 03:10	0°♒	
	813 Jan 06 j 20:10	0°♓	
asc. node	813 Jan 29 j 23:36	27°♓16'00	
	813 Feb 01 j 08:41	0°♈	
	813 Feb 28 j 17:44	0°♉	
evening max el	813 Mar 08 j 02:45	7°♉26'10	45°55'19
	813 Apr 03 j 20:15	0°♊	
greatest brilliancy	813 Apr 15 j 08:27	6°♊03'41	-4.7m
retrograde	813 Apr 26 j 05:48	8°♊12'56	
evening set	813 May 11 j 11:12	3°♊44'30	
inferior conj	813 May 17 j 17:08	29°♉58'25	0°53'50
minimum elong	813 May 17 j 19:06	29°♉55'20	0°53'15
	813 May 17 j 16:08	30°℞♉	
min. Earth dist.	813 May 17 j 19:49	29°♉54'12	0.28949 AU
desc. node	813 May 21 j 12:51	27°♉36'15	
morning rise	813 May 24 j 03:02	26°♉06'34	
direct	813 Jun 08 j 08:11	21°♉40'41	
greatest brilliancy	813 Jun 18 j 16:51	23°♉35'50	-4.7m
	813 Jul 01 j 04:04	0°♊	
morning max el	813 Jul 27 j 03:35	21°♊28'32	45°51'05
	813 Aug 04 j 18:40	0°♋	
	813 Sep 01 j 13:49	0°♌	
asc. node	813 Sep 11 j 16:32	11°♌35'01	
	813 Sep 27 j 08:08	0°♍	
	813 Oct 22 j 02:18	0°♎	
	813 Nov 15 j 08:01	0°♏	
	813 Dec 09 j 08:14	0°♐	
desc. node	814 Jan 01 j 05:49	28°♐41'10	
	814 Jan 02 j 07:00	0°♑	
	814 Jan 26 j 06:22	0°♒	
morning set	814 Jan 28 j 19:55	3°♒12'19	
	814 Feb 19 j 07:26	0°♓	
superior conj	814 Mar 09 j 21:31	23°♓06'17	-1°21'38
minimum elong	814 Mar 10 j 03:39	23°♓25'16	1°21'33
max. Earth dist.	814 Mar 13 j 15:57	27°♓46'35	1.72563 AU
	814 Mar 15 j 11:01	0°♈	
	814 Apr 08 j 17:42	0°♉	
evening rise	814 Apr 17 j 08:00	10°♉34'42	
asc. node	814 Apr 24 j 09:18	19°♉14'47	
	814 May 03 j 03:44	0°♊	
	814 May 27 j 17:06	0°♋	
	814 Jun 21 j 10:17	0°♌	
	814 Jul 16 j 08:54	0°♍	
	814 Aug 10 j 16:13	0°♎	
desc. node	814 Aug 13 j 22:34	3°♎49'35	
	814 Sep 05 j 14:26	0°♏	
	814 Oct 02 j 19:22	0°♐	
evening max el	814 Oct 13 j 10:58	10°♐59'05	47°11'32
	814 Nov 03 j 05:16	0°♑	
greatest brilliancy	814 Nov 23 j 02:36	12°♑12'33	-4.9m
retrograde	814 Dec 03 j 03:43	14°♑08'44	
asc. node	814 Dec 05 j 01:51	14°♑04'09	
evening set	814 Dec 17 j 21:27	9°♑49'01	
min. Earth dist.	814 Dec 23 j 00:38	6°♑47'44	0.26611 AU
inferior conj	814 Dec 23 j 18:38	6°♑20'03	4°36'39
minimum elong	814 Dec 23 j 09:32	6°♑34'03	4°34'08
morning rise	814 Dec 28 j 21:58	3°♑16'20	
	815 Jan 05 j 03:07	30°℞♐	
direct	815 Jan 13 j 02:21	28°♐41'25	
	815 Jan 21 j 09:14	0°♑	
greatest brilliancy	815 Jan 22 j 11:03	0°♑20'50	-4.9m
	815 Mar 03 j 09:28	0°♒	
morning max el	815 Mar 03 j 22:50	0°♒32'52	46°29'00
desc. node	815 Mar 26 j 15:27	24°♒13'17	
	815 Mar 31 j 22:04	0°♓	
	815 Apr 27 j 11:09	0°♈	
	815 May 23 j 04:45	0°♉	
	815 Jun 17 j 10:58	0°♊	
	815 Jul 12 j 08:07	0°♋	
asc. node	815 Jul 17 j 18:50	6°♋37'33	
	815 Aug 05 j 20:53	0°♌	
morning set	815 Aug 29 j 07:07	28°♌59'55	
	815 Aug 30 j 02:26	0°♍	
	815 Sep 23 j 02:54	0°♎	
max. Earth dist.	815 Oct 03 j 22:01	13°♎32'06	1.71512 AU
superior conj	815 Oct 06 j 04:08	16°♎21'54	1°05'13
minimum elong	815 Oct 06 j 14:24	16°♎54'08	1°04'54
	815 Oct 17 j 00:45	0°♏	
desc. node	815 Nov 06 j 08:15	25°♏31'06	
	815 Nov 09 j 21:52	0°♐	
evening rise	815 Nov 15 j 15:58	7°♐13'39	
	815 Dec 03 j 19:26	0°♑	
	815 Dec 27 j 18:36	0°♒	
	816 Jan 20 j 21:21	0°♓	
	816 Feb 14 j 07:07	0°♈	
asc. node	816 Feb 27 j 11:35	15°♈58'25	
	816 Mar 10 j 04:57	0°♉	
	816 Apr 04 j 22:52	0°♊	
	816 May 02 j 06:43	0°♋	
evening max el	816 May 17 j 15:16	15°♋26'20	45°20'14
	816 Jun 03 j 03:12	0°♌	
desc. node	816 Jun 18 j 00:56	10°♌03'12	
greatest brilliancy	816 Jun 24 j 19:40	13°♌04'39	-4.7m
retrograde	816 Jul 05 j 04:47	15°♌00'23	
evening set	816 Jul 21 j 21:04	9°♌45'17	
inferior conj	816 Jul 26 j 13:21	6°♌55'53	-7°30'59
minimum elong	816 Jul 26 j 04:31	7°♌09'32	7°29'42
min. Earth dist.	816 Jul 26 j 18:45	6°♌47'32	0.28709 AU
morning rise	816 Jul 30 j 11:47	4°♌32'00	
	816 Aug 09 j 01:05	30°℞♋	
direct	816 Aug 17 j 02:24	28°♋42'08	
	816 Aug 25 j 10:40	0°♌	
greatest brilliancy	816 Aug 27 j 23:02	0°♌51'15	-4.8m
	816 Oct 05 j 13:15	0°♍	
morning max el	816 Oct 06 j 03:26	0°♍35'22	46°30'26
asc. node	816 Oct 09 j 04:15	3°♍39'17	
	816 Nov 02 j 09:53	0°♎	

	816 Nov 28 j 00:11	0°♏	
	816 Dec 22 j 18:03	0°♐	
	817 Jan 16 j 03:58	0°♑	
desc. node	817 Jan 28 j 17:48	15°♑31'03	
	817 Feb 09 j 11:20	0°♒	
	817 Mar 05 j 18:32	0°♓	
	817 Mar 30 j 02:41	0°♈	
morning set	817 Apr 11 j 17:25	15°♈31'09	
	817 Apr 23 j 12:06	0°♉	
	817 May 17 j 22:20	0°♊	
superior conj	817 May 18 j 17:00	0°♊57'20	-0°07'33
minimum elong	817 May 18 j 18:33	1°♊02'07	0°07'29
behind sun begin	817 May 17 j 22:24	0°♊00'14	
behind sun end	817 May 19 j 14:43	2°♊04'00	
max. Earth dist.	817 May 18 j 14:37	0°♊50'01	1.73617 AU
asc. node	817 May 21 j 21:07	4°♊51'03	
	817 Jun 11 j 08:31	0°♋	
evening rise	817 Jun 23 j 18:25	15°♋15'31	
	817 Jul 05 j 18:09	0°♌	
	817 Jul 30 j 03:40	0°♍	
	817 Aug 23 j 14:19	0°♎	
desc. node	817 Sep 10 j 10:35	21°♎49'04	
	817 Sep 17 j 03:38	0°♏	
	817 Oct 11 j 21:24	0°♐	
	817 Nov 05 j 23:26	0°♑	
	817 Dec 01 j 20:37	0°♒	
evening max el	817 Dec 24 j 12:19	24°♒29'06	47°07'24
	817 Dec 30 j 00:44	0°♓	
asc. node	818 Jan 01 j 13:51	2°♓27'43	
greatest brilliancy	818 Feb 02 j 16:58	25°♓48'51	-4.9m
retrograde	818 Feb 13 j 07:25	27°♓56'17	
evening set	818 Mar 03 j 03:20	21°♓44'14	
inferior conj	818 Mar 06 j 09:40	19°♓41'36	8°23'52
minimum elong	818 Mar 06 j 14:32	19°♓33'55	8°23'31
min. Earth dist.	818 Mar 05 j 23:53	19°♓57'03	0.28279 AU
morning rise	818 Mar 10 j 02:00	17°♓24'30	
direct	818 Mar 27 j 11:39	11°♓35'55	
greatest brilliancy	818 Apr 05 j 18:15	13°♓11'53	-4.8m
desc. node	818 Apr 23 j 03:04	22°♓42'18	
	818 May 02 j 09:41	0°♈	
morning max el	818 May 15 j 11:41	11°♈50'58	45°50'07
	818 Jun 02 j 11:28	0°♉	
	818 Jun 29 j 21:15	0°♊	
	818 Jul 25 j 21:09	0°♋	
asc. node	818 Aug 14 j 06:39	23°♋04'24	
	818 Aug 20 j 00:32	0°♌	
	818 Sep 13 j 13:31	0°♍	
	818 Oct 07 j 16:54	0°♎	
greatest brilliancy	818 Oct 27 j 21:45	25°♎19'33	-3.9m
	818 Oct 31 j 14:59	0°♏	
morning set	818 Nov 10 j 00:38	11°♏49'48	
	818 Nov 24 j 11:02	0°♐	
desc. node	818 Dec 03 j 20:05	11°♐48'29	
	818 Dec 18 j 07:02	0°♑	
superior conj	818 Dec 21 j 13:24	4°♑06'23	-0°40'37
minimum elong	818 Dec 21 j 03:31	3°♑35'18	0°40'10
max. Earth dist.	818 Dec 24 j 03:15	7°♑20'46	1.71144 AU
	819 Jan 11 j 04:12	0°♒	
evening rise	819 Jan 31 j 21:02	25°♒54'28	
	819 Feb 04 j 03:43	0°♓	
	819 Feb 28 j 07:09	0°♈	
	819 Mar 24 j 16:18	0°♉	
asc. node	819 Mar 26 j 23:28	2°♉48'37	
	819 Apr 18 j 09:01	0°♊	
	819 May 13 j 11:52	0°♋	
	819 Jun 08 j 05:49	0°♌	
	819 Jul 05 j 02:54	0°♍	
desc. node	819 Jul 16 j 12:47	12°♍04'40	
evening max el	819 Jul 29 j 17:33	25°♍16'49	46°00'07
	819 Aug 03 j 17:45	0°♎	
greatest brilliancy	819 Sep 07 j 22:00	24°♎08'46	-4.8m
retrograde	819 Sep 16 j 22:04	25°♎37'42	
evening set	819 Oct 03 j 10:08	20°♎28'41	
inferior conj	819 Oct 07 j 16:46	17°♎55'36	-6°44'55
minimum elong	819 Oct 08 j 03:18	17°♎39'31	6°42'46
min. Earth dist.	819 Oct 08 j 13:02	17°♎24'39	0.27093 AU
morning rise	819 Oct 12 j 20:00	14°♎52'35	
direct	819 Oct 28 j 11:20	10°♎06'31	
asc. node	819 Nov 06 j 15:58	11°♎43'11	
greatest brilliancy	819 Nov 08 j 11:16	12°♎22'58	-4.9m
	819 Dec 04 j 02:32	0°♏	
morning max el	819 Dec 18 j 05:28	13°♏36'32	46°56'50
	820 Jan 02 j 15:40	0°♐	
	820 Jan 29 j 01:07	0°♑	
	820 Feb 23 j 11:04	0°♒	
desc. node	820 Feb 26 j 05:37	3°♒18'30	
	820 Mar 19 j 11:31	0°♓	
	820 Apr 13 j 07:39	0°♈	
	820 May 08 j 01:22	0°♉	
	820 Jun 01 j 16:43	0°♊	
asc. node	820 Jun 18 j 09:03	20°♊23'54	
morning set	820 Jun 18 j 14:10	20°♊39'34	
	820 Jun 26 j 04:56	0°♋	
	820 Jul 20 j 13:22	0°♌	
max. Earth dist.	820 Jul 21 j 09:04	1°♌00'51	1.73045 AU
superior conj	820 Jul 24 j 21:57	5°♌23'17	1°12'25
minimum elong	820 Jul 24 j 14:05	4°♌58'58	1°12'14
	820 Aug 13 j 18:24	0°♍	
evening rise	820 Aug 30 j 09:33	20°♍40'42	
	820 Sep 06 j 21:18	0°♎	
	820 Sep 30 j 23:34	0°♏	
desc. node	820 Oct 07 j 22:25	8°♏39'11	
	820 Oct 25 j 02:22	0°♐	
	820 Nov 18 j 06:51	0°♑	
	820 Dec 12 j 15:22	0°♒	
	821 Jan 06 j 09:12	0°♓	
asc. node	821 Jan 29 j 01:39	26°♓40'09	
	821 Jan 31 j 23:28	0°♈	
	821 Feb 28 j 13:12	0°♉	
evening max el	821 Mar 05 j 16:57	5°♉10'08	45°57'31
	821 Apr 04 j 23:48	0°♊	
greatest brilliancy	821 Apr 13 j 01:35	3°♊55'52	-4.7m
retrograde	821 Apr 23 j 22:17	6°♊05'06	
evening set	821 May 09 j 04:59	1°♊34'32	
	821 May 11 j 22:11	30°℞♉	
inferior conj	821 May 15 j 09:44	27°♉50'21	1°13'21
minimum elong	821 May 15 j 12:24	27°♉46'10	1°12'35
min. Earth dist.	821 May 15 j 12:51	27°♉45'27	0.28944 AU
desc. node	821 May 20 j 14:59	24°♉38'46	
morning rise	821 May 21 j 19:47	23°♉58'12	
direct	821 Jun 05 j 23:55	19°♉32'30	
greatest brilliancy	821 Jun 16 j 09:29	21°♉28'10	-4.7m
	821 Jul 02 j 00:12	0°♊	
morning max el	821 Jul 24 j 19:08	19°♊17'52	45°50'17
	821 Aug 04 j 13:37	0°♋	
	821 Sep 01 j 04:21	0°♌	
asc. node	821 Sep 10 j 18:32	11°♌01'03	
	821 Sep 26 j 20:59	0°♍	
	821 Oct 21 j 14:21	0°♎	
	821 Nov 14 j 19:37	0°♏	
	821 Dec 08 j 19:34	0°♐	

desc. node	821 Dec 31 j 07:59	28°♐13'01	
	822 Jan 01 j 18:08	0°♑	
	822 Jan 25 j 17:20	0°♒	
morning set	822 Jan 26 j 06:44	0°♒41'54	
	822 Feb 18 j 18:16	0°♓	
superior conj	822 Mar 07 j 11:42	20°♓48'03	-1°22'39
minimum elong	822 Mar 07 j 17:07	21°♓04'51	1°22'35
max. Earth dist.	822 Mar 11 j 05:47	25°♓27'26	1.72508 AU
	822 Mar 14 j 21:44	0°♈	
	822 Apr 08 j 04:25	0°♉	
evening rise	822 Apr 15 j 00:29	8°♉24'50	
asc. node	822 Apr 23 j 11:22	18°♉48'02	
	822 May 02 j 14:32	0°♊	
	822 May 27 j 04:08	0°♋	
	822 Jun 20 j 21:44	0°♌	
	822 Jul 15 j 21:02	0°♍	
	822 Aug 10 j 05:31	0°♎	
desc. node	822 Aug 13 j 00:36	3°♎16'01	
	822 Sep 05 j 05:52	0°♏	
	822 Oct 02 j 15:32	0°♐	
evening max el	822 Oct 11 j 00:20	8°♐34'07	47°09'57
	822 Nov 03 j 22:12	0°♑	
greatest brilliancy	822 Nov 20 j 15:52	9°♑43'44	-4.9m
retrograde	822 Nov 30 j 16:49	11°♑39'48	
asc. node	822 Dec 04 j 04:03	11°♑24'47	
evening set	822 Dec 15 j 07:55	7°♑22'56	
min. Earth dist.	822 Dec 20 j 13:55	4°♑18'06	0.26571 AU
inferior conj	822 Dec 21 j 07:04	3°♑51'49	4°15'45
minimum elong	822 Dec 20 j 22:26	4°♑05'03	4°13'17
morning rise	822 Dec 26 j 13:20	0°♑44'36	
	822 Dec 27 j 22:29	30°℞♐	
direct	823 Jan 10 j 14:37	26°♐13'32	
greatest brilliancy	823 Jan 20 j 00:23	27°♐54'22	-4.9m
	823 Jan 25 j 00:54	0°♑	
morning max el	823 Mar 01 j 13:03	28°♑12'28	46°30'43
	823 Mar 03 j 08:23	0°♒	
desc. node	823 Mar 25 j 17:26	23°♒32'27	
	823 Mar 31 j 14:12	0°♓	
	823 Apr 27 j 00:43	0°♈	
	823 May 22 j 17:02	0°♉	
	823 Jun 16 j 22:33	0°♊	
	823 Jul 11 j 19:17	0°♋	
asc. node	823 Jul 16 j 20:51	6°♋09'55	
	823 Aug 05 j 07:49	0°♌	
morning set	823 Aug 26 j 23:12	26°♌46'57	
	823 Aug 29 j 13:17	0°♍	
	823 Sep 22 j 13:47	0°♎	
max. Earth dist.	823 Oct 01 j 10:17	11°♎05'48	1.71556 AU
superior conj	823 Oct 03 j 17:34	13°♎59'10	1°07'29
minimum elong	823 Oct 04 j 03:35	14°♎30'36	1°07'12
	823 Oct 16 j 11:43	0°♏	
desc. node	823 Nov 05 j 10:22	25°♏02'54	
	823 Nov 09 j 08:58	0°♐	
evening rise	823 Nov 13 j 02:22	4°♐40'42	
	823 Dec 03 j 06:41	0°♑	
	823 Dec 27 j 05:59	0°♒	
	824 Jan 20 j 08:56	0°♓	
	824 Feb 13 j 19:05	0°♈	
asc. node	824 Feb 26 j 13:34	15°♈27'30	
	824 Mar 09 j 17:38	0°♉	
	824 Apr 04 j 13:04	0°♊	
	824 May 02 j 00:45	0°♋	
evening max el	824 May 15 j 07:48	13°♋17'41	45°20'11
	824 Jun 03 j 14:22	0°♌	
desc. node	824 Jun 17 j 03:02	8°♌36'58	
greatest brilliancy	824 Jun 22 j 09:38	10°♌52'30	-4.7m
retrograde	824 Jul 02 j 20:28	12°♌49'13	
evening set	824 Jul 19 j 09:24	7°♌38'44	
inferior conj	824 Jul 24 j 05:01	4°♌44'09	-7°20'19
minimum elong	824 Jul 23 j 19:51	4°♌58'21	7°18'52
min. Earth dist.	824 Jul 24 j 09:28	4°♌37'15	0.28738 AU
morning rise	824 Jul 28 j 06:08	2°♌16'07	
	824 Aug 01 j 09:31	30°℞♋	
direct	824 Aug 14 j 18:59	26°♋30'12	
greatest brilliancy	824 Aug 25 j 13:42	28°♋37'32	-4.8m
	824 Aug 28 j 19:51	0°♌	
morning max el	824 Oct 03 j 18:46	28°♌18'58	46°28'48
	824 Oct 05 j 11:01	0°♍	
asc. node	824 Oct 08 j 06:18	2°♍51'32	
	824 Nov 02 j 01:45	0°♎	
	824 Nov 27 j 13:58	0°♏	
	824 Dec 22 j 06:48	0°♐	
	825 Jan 15 j 16:06	0°♑	
desc. node	825 Jan 27 j 19:45	15°♑00'21	
	825 Feb 08 j 23:02	0°♒	
	825 Mar 05 j 05:54	0°♓	
	825 Mar 29 j 13:47	0°♈	
morning set	825 Apr 09 j 10:00	13°♈20'46	
	825 Apr 22 j 23:01	0°♉	
superior conj	825 May 16 j 11:01	28°♉52'06	-0°10'42
minimum elong	825 May 16 j 13:14	28°♉58'53	0°10'35
behind sun begin	825 May 15 j 20:11	28°♉06'31	
behind sun end	825 May 17 j 06:17	29°♉51'16	
max. Earth dist.	825 May 16 j 14:04	29°♉01'28	1.73603 AU
	825 May 17 j 09:08	0°♊	
asc. node	825 May 20 j 23:18	4°♊24'35	
	825 Jun 10 j 19:20	0°♋	
evening rise	825 Jun 21 j 13:40	13°♋13'44	
	825 Jul 05 j 05:06	0°♌	
	825 Jul 29 j 14:55	0°♍	
	825 Aug 23 j 02:00	0°♎	
desc. node	825 Sep 09 j 12:32	21°♎18'12	
	825 Sep 16 j 15:54	0°♏	
	825 Oct 11 j 10:31	0°♐	
	825 Nov 05 j 13:53	0°♑	
	825 Dec 01 j 13:43	0°♒	
evening max el	825 Dec 22 j 03:38	22°♒09'12	47°09'00
	825 Dec 30 j 01:45	0°♓	
asc. node	825 Dec 31 j 15:51	1°♓30'31	
greatest brilliancy	826 Jan 31 j 09:05	23°♓31'30	-4.9m
retrograde	826 Feb 10 j 22:54	25°♓38'08	
evening set	826 Feb 28 j 20:03	19°♓24'31	
min. Earth dist.	826 Mar 03 j 14:03	17°♓41'06	0.28230 AU
inferior conj	826 Mar 04 j 00:49	17°♓24'04	8°29'19
minimum elong	826 Mar 04 j 04:58	17°♓17'29	8°29'03
morning rise	826 Mar 07 j 14:10	15°♓11'18	
direct	826 Mar 25 j 02:26	9°♓19'31	
greatest brilliancy	826 Apr 03 j 07:26	10°♓54'03	-4.8m
desc. node	826 Apr 22 j 05:11	21°♓31'42	
	826 May 02 j 15:25	0°♈	
morning max el	826 May 13 j 02:06	9°♈35'33	45°51'02
	826 Jun 02 j 05:03	0°♉	
	826 Jun 29 j 11:24	0°♊	
	826 Jul 25 j 09:46	0°♋	
asc. node	826 Aug 13 j 08:41	22°♋34'25	
	826 Aug 19 j 12:24	0°♌	
	826 Sep 13 j 01:01	0°♍	
	826 Oct 07 j 04:14	0°♎	
greatest brilliancy	826 Oct 27 j 23:35	26°♎05'14	-3.9m
	826 Oct 31 j 02:16	0°♏	
morning set	826 Nov 07 j 12:06	9°♏19'24	

	826 Nov 23 j 22:17	0°♐	
desc. node	826 Dec 02 j 22:13	11°♐19'46	
	826 Dec 17 j 18:16	0°♑	
superior conj	826 Dec 18 j 22:50	1°♑29'48	-0°37'01
minimum elong	826 Dec 18 j 13:37	1°♑00'51	0°36'35
max. Earth dist.	826 Dec 21 j 07:23	4°♑27'36	1.71120 AU
	827 Jan 10 j 15:25	0°♒	
evening rise	827 Jan 29 j 07:49	23°♒23'06	
	827 Feb 03 j 14:59	0°♓	
	827 Feb 27 j 18:30	0°♈	
	827 Mar 24 j 03:49	0°♉	
asc. node	827 Mar 26 j 01:34	2°♉19'45	
	827 Apr 17 j 20:55	0°♊	
	827 May 13 j 00:29	0°♋	
	827 Jun 07 j 19:51	0°♌	
	827 Jul 04 j 20:03	0°♍	
desc. node	827 Jul 15 j 14:46	11°♍19'39	
evening max el	827 Jul 27 j 05:52	22°♍54'16	45°57'42
	827 Aug 03 j 20:41	0°♎	
greatest brilliancy	827 Sep 05 j 11:02	21°♎45'46	-4.8m
retrograde	827 Sep 14 j 09:59	23°♎14'08	
evening set	827 Oct 01 j 02:13	18°♎00'01	
inferior conj	827 Oct 05 j 05:49	15°♎31'24	-6°59'20
minimum elong	827 Oct 05 j 16:11	15°♎15'35	6°57'19
min. Earth dist.	827 Oct 06 j 02:54	14°♎59'13	0.27161 AU
morning rise	827 Oct 10 j 05:38	12°♎32'57	
direct	827 Oct 26 j 00:29	7°♎40'54	
asc. node	827 Nov 05 j 18:11	9°♎50'46	
greatest brilliancy	827 Nov 06 j 02:24	9°♎58'48	-4.9m
	827 Dec 04 j 08:26	0°♏	
morning max el	827 Dec 15 j 18:38	11°♏08'57	46°56'49
	828 Jan 02 j 10:08	0°♐	
	828 Jan 28 j 16:11	0°♑	
	828 Feb 23 j 00:30	0°♒	
desc. node	828 Feb 25 j 07:42	2°♒44'57	
	828 Mar 18 j 24:00	0°♓	
	828 Apr 12 j 19:31	0°♈	
	828 May 07 j 12:48	0°♉	
	828 Jun 01 j 03:52	0°♊	
morning set	828 Jun 16 j 08:20	18°♊34'21	
asc. node	828 Jun 17 j 11:04	19°♊56'15	
	828 Jun 25 j 15:55	0°♋	
max. Earth dist.	828 Jul 19 j 05:40	29°♋02'21	1.73087 AU
	828 Jul 20 j 00:19	0°♌	
superior conj	828 Jul 22 j 16:08	3°♌17'13	1°10'44
minimum elong	828 Jul 22 j 08:00	2°♌52'04	1°10'31
	828 Aug 13 j 05:25	0°♍	
evening rise	828 Aug 28 j 01:50	18°♍27'35	
	828 Sep 06 j 08:28	0°♎	
	828 Sep 30 j 10:58	0°♏	
desc. node	828 Oct 07 j 00:34	8°♏10'06	
	828 Oct 24 j 14:06	0°♐	
	828 Nov 17 j 18:59	0°♑	
	828 Dec 12 j 04:03	0°♒	
	829 Jan 05 j 22:48	0°♓	
asc. node	829 Jan 28 j 03:39	26°♓02'25	
	829 Jan 31 j 14:56	0°♈	
	829 Feb 28 j 09:49	0°♉	
evening max el	829 Mar 03 j 07:30	2°♉53'30	45°59'58
	829 Apr 06 j 17:02	0°♊	
greatest brilliancy	829 Apr 10 j 17:59	1°♊45'41	-4.7m
retrograde	829 Apr 21 j 15:00	3°♊55'37	
	829 May 05 j 19:00	30°℞♉	
evening set	829 May 06 j 22:45	29°♉22'33	
inferior conj	829 May 13 j 02:08	25°♉40'27	1°32'58
minimum elong	829 May 13 j 05:30	25°♉35'11	1°31'59
min. Earth dist.	829 May 13 j 05:26	25°♉35'16	0.28939 AU
morning rise	829 May 19 j 12:13	21°♉48'25	
desc. node	829 May 19 j 17:08	21°♉41'41	
direct	829 Jun 03 j 15:47	17°♉22'25	
greatest brilliancy	829 Jun 14 j 01:41	19°♉18'34	-4.7m
	829 Jul 02 j 15:50	0°♊	
morning max el	829 Jul 22 j 11:35	17°♊08'18	45°49'39
	829 Aug 04 j 08:30	0°♋	
	829 Aug 31 j 19:03	0°♌	
asc. node	829 Sep 09 j 20:36	10°♌26'38	
	829 Sep 26 j 10:01	0°♍	
	829 Oct 21 j 02:34	0°♎	
	829 Nov 14 j 07:25	0°♏	
	829 Dec 08 j 07:09	0°♐	
desc. node	829 Dec 30 j 09:57	27°♐43'16	
	830 Jan 01 j 05:34	0°♑	
morning set	830 Jan 23 j 17:01	28°♑08'34	
	830 Jan 25 j 04:39	0°♒	
	830 Feb 18 j 05:27	0°♓	
superior conj	830 Mar 05 j 01:09	18°♓26'19	-1°23'32
minimum elong	830 Mar 05 j 05:48	18°♓40'43	1°23'30
max. Earth dist.	830 Mar 08 j 18:41	23°♓04'10	1.72453 AU
	830 Mar 14 j 08:49	0°♈	
	830 Apr 07 j 15:28	0°♉	
evening rise	830 Apr 12 j 16:24	6°♉12'08	
asc. node	830 Apr 22 j 13:29	18°♉20'30	
	830 May 02 j 01:41	0°♊	
	830 May 26 j 15:32	0°♋	
	830 Jun 20 j 09:33	0°♌	
	830 Jul 15 j 09:33	0°♍	
	830 Aug 09 j 19:13	0°♎	
desc. node	830 Aug 12 j 02:39	2°♎41'35	
	830 Sep 04 j 21:45	0°♏	
	830 Oct 02 j 12:30	0°♐	
evening max el	830 Oct 08 j 14:40	6°♐11'27	47°08'24
	830 Nov 04 j 21:02	0°♑	
greatest brilliancy	830 Nov 18 j 04:45	7°♑14'27	-4.9m
retrograde	830 Nov 28 j 06:12	9°♑10'30	
asc. node	830 Dec 03 j 05:59	8°♑39'17	
evening set	830 Dec 12 j 18:41	4°♑56'22	
min. Earth dist.	830 Dec 18 j 03:04	1°♑48'18	0.26536 AU
inferior conj	830 Dec 18 j 19:30	1°♑23'08	3°54'13
minimum elong	830 Dec 18 j 11:25	1°♑35'31	3°51'52
	830 Dec 21 j 02:12	30°℞♐	
morning rise	830 Dec 24 j 04:36	28°♐12'33	
direct	831 Jan 08 j 03:26	23°♐45'25	
greatest brilliancy	831 Jan 17 j 13:27	25°♐26'59	-4.9m
	831 Jan 27 j 01:47	0°♑	
morning max el	831 Feb 27 j 03:29	25°♑51'46	46°32'07
	831 Mar 03 j 06:41	0°♒	
desc. node	831 Mar 24 j 19:35	22°♒51'36	
	831 Mar 31 j 06:23	0°♓	
	831 Apr 26 j 14:28	0°♈	
	831 May 22 j 05:31	0°♉	
	831 Jun 16 j 10:18	0°♊	
	831 Jul 11 j 06:37	0°♋	
asc. node	831 Jul 15 j 22:50	5°♋41'36	
	831 Aug 04 j 18:56	0°♌	
morning set	831 Aug 24 j 15:17	24°♌33'35	
	831 Aug 29 j 00:18	0°♍	
	831 Sep 22 j 00:48	0°♎	
max. Earth dist.	831 Sep 28 j 19:54	8°♎30'53	1.71595 AU
superior conj	831 Oct 01 j 07:22	11°♎37'16	1°09'37
minimum elong	831 Oct 01 j 17:03	12°♎07'39	1°09'20

	831 Oct 15 j 22:48	0°♏	
desc. node	831 Nov 04 j 12:28	24°♏34'30	
	831 Nov 08 j 20:08	0°♐	
evening rise	831 Nov 10 j 13:09	2°♐08'45	
	831 Dec 02 j 17:57	0°♑	
	831 Dec 26 j 17:23	0°♒	
	832 Jan 19 j 20:34	0°♓	
	832 Feb 13 j 07:08	0°♈	
asc. node	832 Feb 25 j 15:40	14°♈56'33	
	832 Mar 09 j 06:30	0°♉	
	832 Apr 04 j 03:36	0°♊	
	832 May 01 j 19:27	0°♋	
evening max el	832 May 12 j 23:56	11°♋07'25	45°20'13
	832 Jun 04 j 05:42	0°♌	
desc. node	832 Jun 16 j 04:59	7°♌07'00	
greatest brilliancy	832 Jun 20 j 00:09	8°♌40'26	-4.7m
retrograde	832 Jun 30 j 11:31	10°♌37'26	
evening set	832 Jul 16 j 21:43	5°♌31'40	
inferior conj	832 Jul 21 j 20:36	2°♌32'03	-7°08'56
minimum elong	832 Jul 21 j 11:10	2°♌46'42	7°07'22
min. Earth dist.	832 Jul 22 j 00:30	2°♌25'59	0.28764 AU
morning rise	832 Jul 26 j 00:26	29°♋59'41	
	832 Jul 26 j 00:13	30°℞♋	
direct	832 Aug 12 j 11:06	24°♋17'54	
greatest brilliancy	832 Aug 23 j 04:40	26°♋23'44	-4.8m
	832 Aug 30 j 18:08	0°♌	
morning max el	832 Oct 01 j 09:09	26°♌00'06	46°27'15
	832 Oct 05 j 08:05	0°♍	
asc. node	832 Oct 07 j 08:26	2°♍04'37	
	832 Nov 01 j 17:23	0°♎	
	832 Nov 27 j 03:35	0°♏	
	832 Dec 21 j 19:23	0°♐	
	833 Jan 15 j 04:03	0°♑	
desc. node	833 Jan 26 j 21:50	14°♑30'37	
	833 Feb 08 j 10:32	0°♒	
	833 Mar 04 j 17:05	0°♓	
	833 Mar 29 j 00:46	0°♈	
morning set	833 Apr 07 j 02:24	11°♈10'01	
	833 Apr 22 j 09:51	0°♉	
superior conj	833 May 14 j 04:45	26°♉46'08	-0°13'52
minimum elong	833 May 14 j 07:36	26°♉54'54	0°13'43
behind sun begin	833 May 13 j 20:08	26°♉19'39	
behind sun end	833 May 14 j 19:05	27°♉30'09	
max. Earth dist.	833 May 14 j 11:34	27°♉07'05	1.73590 AU
	833 May 16 j 19:53	0°♊	
asc. node	833 May 20 j 01:17	3°♊57'39	
	833 Jun 10 j 06:06	0°♋	
evening rise	833 Jun 19 j 08:32	11°♋10'56	
	833 Jul 04 j 16:01	0°♌	
	833 Jul 29 j 02:06	0°♍	
	833 Aug 22 j 13:38	0°♎	
desc. node	833 Sep 08 j 14:42	20°♎48'13	
	833 Sep 16 j 04:08	0°♏	
	833 Oct 10 j 23:35	0°♐	
	833 Nov 05 j 04:19	0°♑	
	833 Dec 01 j 06:55	0°♒	
evening max el	833 Dec 19 j 18:13	19°♒48'04	47°10'41
	833 Dec 30 j 03:41	0°♓	
asc. node	833 Dec 30 j 17:53	0°♓33'07	
greatest brilliancy	834 Jan 29 j 01:44	21°♓15'54	-4.9m
retrograde	834 Feb 08 j 14:13	23°♓21'25	
evening set	834 Feb 26 j 12:37	17°♓06'48	
min. Earth dist.	834 Mar 01 j 04:42	15°♓26'18	0.28179 AU
inferior conj	834 Mar 01 j 16:10	15°♓08'07	8°33'49
minimum elong	834 Mar 01 j 19:35	15°♓02'43	8°33'39
morning rise	834 Mar 05 j 02:48	12°♓59'17	
direct	834 Mar 22 j 16:49	7°♓04'34	
greatest brilliancy	834 Mar 31 j 21:20	8°♓38'17	-4.8m
desc. node	834 Apr 21 j 07:19	20°♓24'14	
	834 May 02 j 18:48	0°♈	
morning max el	834 May 10 j 16:12	7°♈20'09	45°51'47
	834 Jun 01 j 21:58	0°♉	
	834 Jun 29 j 01:11	0°♊	
	834 Jul 24 j 22:08	0°♋	
asc. node	834 Aug 12 j 10:49	22°♋05'24	
	834 Aug 19 j 00:02	0°♌	
	834 Sep 12 j 12:16	0°♍	
	834 Oct 06 j 15:20	0°♎	
greatest brilliancy	834 Oct 27 j 15:00	26°♎19'02	-3.9m
	834 Oct 30 j 13:18	0°♏	
morning set	834 Nov 04 j 23:33	6°♏49'43	
	834 Nov 23 j 09:17	0°♐	
desc. node	834 Dec 02 j 00:10	10°♐51'15	
superior conj	834 Dec 16 j 08:18	28°♐54'09	-0°33'19
minimum elong	834 Dec 15 j 23:50	28°♐27'33	0°32'56
	834 Dec 17 j 05:14	0°♑	
max. Earth dist.	834 Dec 18 j 09:02	1°♑27'24	1.71097 AU
	835 Jan 10 j 02:22	0°♒	
evening rise	835 Jan 26 j 18:43	20°♒53'02	
	835 Feb 03 j 01:54	0°♓	
	835 Feb 27 j 05:28	0°♈	
	835 Mar 23 j 14:57	0°♉	
asc. node	835 Mar 25 j 03:41	1°♉52'13	
	835 Apr 17 j 08:26	0°♊	
	835 May 12 j 12:48	0°♋	
	835 Jun 07 j 09:43	0°♌	
	835 Jul 04 j 13:16	0°♍	
desc. node	835 Jul 14 j 16:52	10°♍35'02	
evening max el	835 Jul 24 j 18:23	20°♍33'11	45°55'21
	835 Aug 04 j 00:58	0°♎	
greatest brilliancy	835 Sep 02 j 23:31	19°♎23'11	-4.8m
retrograde	835 Sep 11 j 22:24	20°♎51'46	
evening set	835 Sep 28 j 18:14	15°♎32'17	
inferior conj	835 Oct 02 j 18:52	13°♎08'11	-7°12'49
minimum elong	835 Oct 03 j 05:00	12°♎52'44	7°10'57
min. Earth dist.	835 Oct 03 j 16:30	12°♎35'12	0.27229 AU
morning rise	835 Oct 07 j 15:14	10°♎14'41	
direct	835 Oct 23 j 13:58	5°♎16'16	
greatest brilliancy	835 Nov 03 j 17:20	7°♎35'39	-4.9m
asc. node	835 Nov 04 j 20:08	8°♎03'26	
	835 Dec 04 j 12:01	0°♏	
morning max el	835 Dec 13 j 08:47	8°♏44'58	46°56'47
	836 Jan 02 j 03:48	0°♐	
	836 Jan 28 j 06:42	0°♑	
	836 Feb 22 j 13:27	0°♒	
desc. node	836 Feb 24 j 09:47	2°♒12'45	
	836 Mar 18 j 12:00	0°♓	
	836 Apr 12 j 06:53	0°♈	
	836 May 06 j 23:44	0°♉	
	836 May 31 j 14:33	0°♊	
morning set	836 Jun 14 j 02:46	16°♊31'16	
asc. node	836 Jun 16 j 13:05	19°♊29'55	
	836 Jun 25 j 02:29	0°♋	
max. Earth dist.	836 Jul 17 j 03:09	27°♋07'45	1.73134 AU
	836 Jul 19 j 10:55	0°♌	
superior conj	836 Jul 20 j 10:23	1°♌12'33	1°08'57
minimum elong	836 Jul 20 j 02:02	0°♌46'44	1°08'42
	836 Aug 12 j 16:06	0°♍	
evening rise	836 Aug 25 j 18:10	16°♍15'39	
	836 Sep 05 j 19:20	0°♎	
	836 Sep 29 j 22:04	0°♏	

desc. node	836 Oct 06 j 02:37	7°♏41'43	
	836 Oct 24 j 01:30	0°♐	
	836 Nov 17 j 06:48	0°♑	
	836 Dec 11 j 16:27	0°♒	
	837 Jan 05 j 12:08	0°♓	
asc. node	837 Jan 27 j 05:48	25°♓26'02	
	837 Jan 31 j 06:12	0°♈	
	837 Feb 28 j 06:36	0°♉	
evening max el	837 Feb 28 j 23:17	0°♉41'16	46°02'34
greatest brilliancy	837 Apr 08 j 10:19	29°♉37'21	-4.7m
	837 Apr 09 j 11:09	0°♊	
retrograde	837 Apr 19 j 08:22	1°♊48'14	
	837 Apr 28 j 19:32	30°℞♉	
evening set	837 May 04 j 16:56	27°♉12'43	
inferior conj	837 May 10 j 18:47	23°♉32'39	1°52'11
minimum elong	837 May 10 j 22:49	23°♉26'20	1°51'02
min. Earth dist.	837 May 10 j 21:54	23°♉27'46	0.28931 AU
morning rise	837 May 17 j 04:46	19°♉41'06	
desc. node	837 May 18 j 19:01	18°♉50'28	
direct	837 Jun 01 j 08:20	15°♉14'43	
greatest brilliancy	837 Jun 11 j 17:24	17°♉10'36	-4.7m
	837 Jul 03 j 02:37	0°♊	
morning max el	837 Jul 20 j 04:47	15°♊02'20	45°48'50
	837 Aug 04 j 02:20	0°♋	
	837 Aug 31 j 09:10	0°♌	
asc. node	837 Sep 08 j 22:43	9°♌53'37	
	837 Sep 25 j 22:38	0°♍	
	837 Oct 20 j 14:28	0°♎	
	837 Nov 13 j 18:55	0°♏	
	837 Dec 07 j 18:24	0°♐	
desc. node	837 Dec 29 j 12:03	27°♐15'03	
	837 Dec 31 j 16:40	0°♑	
morning set	838 Jan 21 j 03:13	25°♑36'03	
	838 Jan 24 j 15:36	0°♒	
	838 Feb 17 j 16:16	0°♓	
superior conj	838 Mar 02 j 14:32	16°♓05'16	-1°24'17
minimum elong	838 Mar 02 j 18:22	16°♓17'12	1°24'16
max. Earth dist.	838 Mar 06 j 08:36	20°♓45'01	1.72399 AU
	838 Mar 13 j 19:34	0°♈	
	838 Apr 07 j 02:11	0°♉	
evening rise	838 Apr 10 j 08:25	4°♉00'49	
asc. node	838 Apr 21 j 15:30	17°♉53'44	
	838 May 01 j 12:28	0°♊	
	838 May 26 j 02:31	0°♋	
	838 Jun 19 j 20:57	0°♌	
	838 Jul 14 j 21:42	0°♍	
	838 Aug 09 j 08:39	0°♎	
desc. node	838 Aug 11 j 04:46	2°♎08'17	
	838 Sep 04 j 13:36	0°♏	
	838 Oct 02 j 10:00	0°♐	
evening max el	838 Oct 06 j 05:42	3°♐51'12	47°06'30
	838 Nov 06 j 04:19	0°♑	
greatest brilliancy	838 Nov 15 j 17:48	4°♑45'37	-4.9m
retrograde	838 Nov 25 j 19:18	6°♑41'01	
asc. node	838 Dec 02 j 08:02	5°♑47'40	
evening set	838 Dec 10 j 05:35	2°♑29'43	
	838 Dec 14 j 12:54	30°℞♐	
min. Earth dist.	838 Dec 15 j 16:13	29°♐18'21	0.26500 AU
inferior conj	838 Dec 16 j 07:46	28°♐54'33	3°32'05
minimum elong	838 Dec 16 j 00:18	29°♐05'59	3°29'52
morning rise	838 Dec 21 j 19:31	25°♐40'35	
direct	839 Jan 05 j 16:09	21°♐17'35	
greatest brilliancy	839 Jan 15 j 02:22	22°♐59'34	-4.9m
	839 Jan 28 j 10:20	0°♑	
morning max el	839 Feb 24 j 17:10	23°♑29'50	46°33'32
	839 Mar 03 j 03:52	0°♒	
desc. node	839 Mar 23 j 21:40	22°♒11'53	
	839 Mar 30 j 21:58	0°♓	
	839 Apr 26 j 03:47	0°♈	
	839 May 21 j 17:38	0°♉	
	839 Jun 15 j 21:42	0°♊	
	839 Jul 10 j 17:36	0°♋	
asc. node	839 Jul 15 j 01:03	5°♋15'02	
	839 Aug 04 j 05:41	0°♌	
morning set	839 Aug 22 j 07:49	22°♌22'43	
	839 Aug 28 j 10:59	0°♍	
	839 Sep 21 j 11:33	0°♎	
max. Earth dist.	839 Sep 26 j 04:25	5°♎53'24	1.71645 AU
superior conj	839 Sep 28 j 21:32	9°♎17'27	1°11'36
minimum elong	839 Sep 29 j 06:49	9°♎46'32	1°11'21
	839 Oct 15 j 09:41	0°♏	
desc. node	839 Nov 03 j 14:28	24°♏06'13	
evening rise	839 Nov 07 j 23:48	29°♏36'54	
	839 Nov 08 j 07:10	0°♐	
	839 Dec 02 j 05:07	0°♑	
	839 Dec 26 j 04:41	0°♒	
	840 Jan 19 j 08:06	0°♓	
	840 Feb 12 j 19:06	0°♈	
asc. node	840 Feb 24 j 17:46	14°♈26'00	
	840 Mar 08 j 19:17	0°♉	
	840 Apr 03 j 18:07	0°♊	
	840 May 01 j 14:24	0°♋	
evening max el	840 May 10 j 15:36	8°♋56'41	45°20'23
	840 Jun 05 j 01:44	0°♌	
desc. node	840 Jun 15 j 07:09	5°♌35'20	
greatest brilliancy	840 Jun 17 j 15:20	6°♌30'17	-4.7m
retrograde	840 Jun 28 j 02:31	8°♌27'29	
evening set	840 Jul 14 j 10:26	3°♌26'10	
inferior conj	840 Jul 19 j 12:31	0°♌21'50	-6°57'01
minimum elong	840 Jul 19 j 02:52	0°♌36'51	6°55'20
min. Earth dist.	840 Jul 19 j 16:09	0°♌16'11	0.28785 AU
	840 Jul 20 j 02:33	30°℞♋	
morning rise	840 Jul 23 j 19:05	27°♋45'09	
direct	840 Aug 10 j 03:03	22°♋07'24	
greatest brilliancy	840 Aug 20 j 20:26	24°♋12'27	-4.8m
	840 Sep 01 j 00:36	0°♌	
morning max el	840 Sep 28 j 22:57	23°♌40'50	46°25'38
	840 Oct 05 j 04:07	0°♍	
asc. node	840 Oct 06 j 10:27	1°♍18'56	
	840 Nov 01 j 08:36	0°♎	
	840 Nov 26 j 17:00	0°♏	
	840 Dec 21 j 07:54	0°♐	
	841 Jan 14 j 15:59	0°♑	
desc. node	841 Jan 25 j 24:00	14°♑01'00	
	841 Feb 07 j 22:03	0°♒	
	841 Mar 04 j 04:18	0°♓	
	841 Mar 28 j 11:44	0°♈	
morning set	841 Apr 04 j 18:27	8°♈58'09	
	841 Apr 21 j 20:39	0°♉	
superior conj	841 May 11 j 22:27	24°♉40'11	-0°17'00
minimum elong	841 May 12 j 01:57	24°♉50'55	0°16'51
max. Earth dist.	841 May 12 j 07:47	25°♉08'53	1.73572 AU
	841 May 16 j 06:37	0°♊	
asc. node	841 May 19 j 03:19	3°♊30'59	
	841 Jun 09 j 16:50	0°♋	
evening rise	841 Jun 17 j 03:36	9°♋08'54	
	841 Jul 04 j 02:53	0°♌	
	841 Jul 28 j 13:15	0°♍	
	841 Aug 22 j 01:11	0°♎	
desc. node	841 Sep 07 j 16:46	20°♎18'12	
	841 Sep 15 j 16:18	0°♏	

	841 Oct 10 j 12:39	0°♐	
	841 Nov 04 j 18:53	0°♑	
	841 Dec 01 j 00:34	0°♒	
evening max el	841 Dec 17 j 08:02	17°♒24'21	47°12'01
asc. node	841 Dec 29 j 20:03	29°♒33'57	
	841 Dec 30 j 07:28	0°♓	
greatest brilliancy	842 Jan 26 j 18:08	18°♓58'23	-4.9m
retrograde	842 Feb 06 j 05:05	21°♓03'01	
evening set	842 Feb 24 j 04:30	14°♓47'44	
inferior conj	842 Feb 27 j 07:14	12°♓50'27	8°37'29
minimum elong	842 Feb 27 j 09:51	12°♓46'19	8°37'24
min. Earth dist.	842 Feb 26 j 19:17	13°♓09'24	0.28130 AU
morning rise	842 Mar 02 j 15:25	10°♓45'16	
direct	842 Mar 20 j 06:36	4°♓47'37	
greatest brilliancy	842 Mar 29 j 11:31	6°♓21'23	-4.8m
desc. node	842 Apr 20 j 09:17	19°♓17'15	
	842 May 02 j 20:59	0°♈	
morning max el	842 May 08 j 06:15	5°♈03'44	45°52'48
	842 Jun 01 j 14:45	0°♉	
	842 Jun 28 j 14:58	0°♊	
	842 Jul 24 j 10:32	0°♋	
asc. node	842 Aug 11 j 12:51	21°♋35'48	
	842 Aug 18 j 11:43	0°♌	
	842 Sep 11 j 23:36	0°♍	
	842 Oct 06 j 02:29	0°♎	
greatest brilliancy	842 Oct 27 j 04:54	26°♎27'57	-3.9m
	842 Oct 30 j 00:22	0°♏	
morning set	842 Nov 02 j 11:43	4°♏22'07	
	842 Nov 22 j 20:20	0°♐	
desc. node	842 Dec 01 j 02:18	10°♐23'10	
superior conj	842 Dec 13 j 18:02	26°♐19'00	-0°29'36
minimum elong	842 Dec 13 j 10:24	25°♐54'59	0°29'14
max. Earth dist.	842 Dec 15 j 12:48	28°♐33'32	1.71086 AU
	842 Dec 16 j 16:18	0°♑	
	843 Jan 09 j 13:29	0°♒	
evening rise	843 Jan 24 j 05:29	18°♒21'55	
	843 Feb 02 j 13:04	0°♓	
	843 Feb 26 j 16:43	0°♈	
	843 Mar 23 j 02:23	0°♉	
asc. node	843 Mar 24 j 05:39	1°♉23'12	
	843 Apr 16 j 20:18	0°♊	
	843 May 12 j 01:29	0°♋	
	843 Jun 07 j 00:00	0°♌	
	843 Jul 04 j 07:09	0°♍	
desc. node	843 Jul 13 j 19:00	9°♍49'09	
evening max el	843 Jul 22 j 07:46	18°♍13'46	45°53'11
	843 Aug 04 j 07:30	0°♎	
greatest brilliancy	843 Aug 31 j 11:31	17°♎00'08	-4.8m
retrograde	843 Sep 09 j 11:33	18°♎29'36	
evening set	843 Sep 26 j 10:24	13°♎04'50	
inferior conj	843 Sep 30 j 08:05	10°♎45'02	-7°25'23
minimum elong	843 Sep 30 j 17:54	10°♎30'05	7°23'43
min. Earth dist.	843 Oct 01 j 05:49	10°♎11'57	0.27294 AU
morning rise	843 Oct 05 j 00:56	7°♎56'46	
direct	843 Oct 21 j 04:09	2°♎52'00	
greatest brilliancy	843 Nov 01 j 07:50	5°♎12'10	-4.9m
asc. node	843 Nov 03 j 22:12	6°♎20'15	
	843 Dec 04 j 14:07	0°♏	
morning max el	843 Dec 10 j 23:43	6°♏22'57	46°56'42
	844 Jan 01 j 21:10	0°♐	
	844 Jan 27 j 21:11	0°♑	
	844 Feb 22 j 02:32	0°♒	
desc. node	844 Feb 23 j 11:49	1°♒39'49	
	844 Mar 18 j 00:15	0°♓	
	844 Apr 11 j 18:35	0°♈	
	844 May 06 j 11:02	0°♉	
	844 May 31 j 01:35	0°♊	
morning set	844 Jun 11 j 20:55	14°♊26'14	
asc. node	844 Jun 15 j 15:16	19°♊03'00	
	844 Jun 24 j 13:24	0°♋	
max. Earth dist.	844 Jul 15 j 00:47	25°♋12'42	1.73174 AU
superior conj	844 Jul 18 j 04:25	29°♋06'16	1°07'03
minimum elong	844 Jul 17 j 19:54	28°♋39'58	1°06'48
	844 Jul 18 j 21:49	0°♌	
	844 Aug 12 j 03:06	0°♍	
evening rise	844 Aug 23 j 10:34	14°♍02'59	
	844 Sep 05 j 06:30	0°♎	
	844 Sep 29 j 09:29	0°♏	
desc. node	844 Oct 05 j 04:36	7°♏12'10	
	844 Oct 23 j 13:14	0°♐	
	844 Nov 16 j 18:55	0°♑	
	844 Dec 11 j 05:06	0°♒	
	845 Jan 05 j 01:46	0°♓	
asc. node	845 Jan 26 j 07:51	24°♓48'21	
	845 Jan 30 j 21:57	0°♈	
evening max el	845 Feb 26 j 15:34	28°♈29'10	46°04'53
	845 Feb 28 j 04:34	0°♉	
greatest brilliancy	845 Apr 06 j 02:36	27°♉27'15	-4.8m
retrograde	845 Apr 17 j 01:27	29°♉38'32	
evening set	845 May 02 j 11:02	25°♉00'41	
inferior conj	845 May 08 j 11:10	21°♉22'39	2°11'27
minimum elong	845 May 08 j 15:51	21°♉15'19	2°10'07
min. Earth dist.	845 May 08 j 14:01	21°♉18'10	0.28924 AU
morning rise	845 May 14 j 20:51	17°♉31'42	
desc. node	845 May 17 j 21:13	15°♉59'39	
direct	845 May 30 j 01:00	13°♉04'56	
greatest brilliancy	845 Jun 09 j 08:32	14°♉59'56	-4.7m
	845 Jul 03 j 11:19	0°♊	
morning max el	845 Jul 17 j 21:34	12°♊53'52	45°48'05
	845 Aug 03 j 20:19	0°♋	
	845 Aug 30 j 23:34	0°♌	
asc. node	845 Sep 08 j 00:44	9°♌19'21	
	845 Sep 25 j 11:33	0°♍	
	845 Oct 20 j 02:39	0°♎	
	845 Nov 13 j 06:42	0°♏	
	845 Dec 07 j 05:57	0°♐	
desc. node	845 Dec 28 j 14:10	26°♐45'58	
	845 Dec 31 j 04:03	0°♑	
morning set	846 Jan 18 j 13:42	23°♑03'30	
	846 Jan 24 j 02:50	0°♒	
	846 Feb 17 j 03:21	0°♓	
superior conj	846 Feb 28 j 04:01	13°♓43'39	-1°24'53
minimum elong	846 Feb 28 j 07:01	13°♓52'59	1°24'51
max. Earth dist.	846 Mar 04 j 01:20	18°♓33'39	1.72345 AU
	846 Mar 13 j 06:34	0°♈	
	846 Apr 06 j 13:13	0°♉	
evening rise	846 Apr 08 j 00:25	1°♉48'23	
asc. node	846 Apr 20 j 17:35	17°♉26'07	
	846 Apr 30 j 23:37	0°♊	
	846 May 25 j 13:55	0°♋	
	846 Jun 19 j 08:49	0°♌	
	846 Jul 14 j 10:20	0°♍	
	846 Aug 08 j 22:39	0°♎	
desc. node	846 Aug 10 j 06:47	1°♎33'15	
	846 Sep 04 j 06:07	0°♏	
	846 Oct 02 j 08:46	0°♐	
evening max el	846 Oct 03 j 20:16	1°♐28'45	47°04'34
	846 Nov 08 j 02:56	0°♑	
greatest brilliancy	846 Nov 13 j 07:21	2°♑16'30	-4.9m
retrograde	846 Nov 23 j 07:53	4°♑10'24	
asc. node	846 Dec 01 j 10:16	2°♑48'56	

evening set	846 Dec 07 j 16:45	0°♑01'50	
	846 Dec 07 j 18:06	30°℞♐	
min. Earth dist.	846 Dec 13 j 05:46	26°♐46'56	0.26466 AU
inferior conj	846 Dec 13 j 20:03	26°♐25'04	3°09'31
minimum elong	846 Dec 13 j 13:16	26°♐35'28	3°07'26
morning rise	846 Dec 19 j 10:16	23°♐07'39	
direct	847 Jan 03 j 04:34	18°♐48'46	
greatest brilliancy	847 Jan 12 j 15:49	20°♐31'33	-4.9m
	847 Jan 29 j 10:13	0°♑	
morning max el	847 Feb 22 j 05:55	21°♑04'33	46°35'02
	847 Mar 03 j 00:37	0°♒	
desc. node	847 Mar 22 j 23:40	21°♒31'36	
	847 Mar 30 j 13:35	0°♓	
	847 Apr 25 j 17:15	0°♈	
	847 May 21 j 05:59	0°♉	
	847 Jun 15 j 09:26	0°♊	
	847 Jul 10 j 04:56	0°♋	
asc. node	847 Jul 14 j 03:03	4°♋46'41	
	847 Aug 03 j 16:49	0°♌	
morning set	847 Aug 20 j 00:07	20°♌09'56	
	847 Aug 27 j 22:03	0°♍	
	847 Sep 20 j 22:38	0°♎	
max. Earth dist.	847 Sep 23 j 13:31	3°♎16'51	1.71694 AU
superior conj	847 Sep 26 j 11:39	6°♎56'30	1°13'26
minimum elong	847 Sep 26 j 20:29	7°♎24'11	1°13'13
	847 Oct 14 j 20:52	0°♏	
desc. node	847 Nov 02 j 16:35	23°♏37'30	
evening rise	847 Nov 05 j 10:28	27°♏04'13	
	847 Nov 07 j 18:29	0°♐	
	847 Dec 01 j 16:34	0°♑	
	847 Dec 25 j 16:18	0°♒	
	848 Jan 18 j 19:58	0°♓	
	848 Feb 12 j 07:23	0°♈	
asc. node	848 Feb 23 j 19:47	13°♈54'18	
	848 Mar 08 j 08:23	0°♉	
	848 Apr 03 j 09:01	0°♊	
	848 May 01 j 10:10	0°♋	
evening max el	848 May 08 j 06:16	6°♋42'50	45°20'31
	848 Jun 06 j 05:52	0°♌	
desc. node	848 Jun 14 j 09:14	3°♌59'17	
greatest brilliancy	848 Jun 15 j 06:14	4°♌18'48	-4.7m
retrograde	848 Jun 25 j 17:31	6°♌16'40	
evening set	848 Jul 11 j 23:05	1°♌19'17	
	848 Jul 14 j 05:14	30°℞♋	
inferior conj	848 Jul 17 j 04:22	28°♋10'32	-6°44'28
minimum elong	848 Jul 16 j 18:32	28°♋25'50	6°42'39
min. Earth dist.	848 Jul 17 j 07:54	28°♋05'02	0.28812 AU
morning rise	848 Jul 21 j 13:42	25°♋29'36	
direct	848 Aug 07 j 18:40	19°♋55'34	
greatest brilliancy	848 Aug 18 j 12:52	22°♋00'47	-4.8m
	848 Sep 01 j 23:13	0°♌	
morning max el	848 Sep 26 j 12:52	21°♌20'47	46°24'09
	848 Oct 04 j 24:00	0°♍	
asc. node	848 Oct 05 j 12:32	0°♍32'56	
	848 Oct 31 j 23:57	0°♎	
	848 Nov 26 j 06:35	0°♏	
	848 Dec 20 j 20:33	0°♐	
	849 Jan 14 j 04:04	0°♑	
desc. node	849 Jan 25 j 01:57	13°♑30'12	
	849 Feb 07 j 09:44	0°♒	
	849 Mar 03 j 15:40	0°♓	
	849 Mar 27 j 22:52	0°♈	
morning set	849 Apr 02 j 10:30	6°♈45'41	
	849 Apr 21 j 07:36	0°♉	
superior conj	849 May 09 j 16:19	22°♉34'19	-0°20'07
minimum elong	849 May 09 j 20:26	22°♉46'58	0°19'55
max. Earth dist.	849 May 10 j 03:41	23°♉09'12	1.73553 AU
	849 May 15 j 17:28	0°♊	
asc. node	849 May 18 j 05:31	3°♊04'24	
	849 Jun 09 j 03:43	0°♋	
evening rise	849 Jun 14 j 22:50	7°♋07'05	
	849 Jul 03 j 13:56	0°♌	
	849 Jul 28 j 00:37	0°♍	
	849 Aug 21 j 13:01	0°♎	
desc. node	849 Sep 06 j 18:45	19°♎47'05	
	849 Sep 15 j 04:46	0°♏	
	849 Oct 10 j 02:03	0°♐	
	849 Nov 04 j 09:50	0°♑	
	849 Nov 30 j 18:48	0°♒	
evening max el	849 Dec 14 j 21:41	14°♒59'50	47°13'31
asc. node	849 Dec 28 j 22:04	28°♒32'39	
	849 Dec 30 j 13:18	0°♓	
greatest brilliancy	850 Jan 24 j 09:53	16°♓39'35	-4.9m
retrograde	850 Feb 03 j 20:09	18°♓44'20	
evening set	850 Feb 21 j 20:00	12°♓28'31	
inferior conj	850 Feb 24 j 22:15	10°♓32'15	8°40'24
minimum elong	850 Feb 25 j 00:04	10°♓29'24	8°40'21
min. Earth dist.	850 Feb 24 j 09:35	10°♓52'16	0.28079 AU
morning rise	850 Feb 28 j 04:19	8°♓30'27	
direct	850 Mar 17 j 20:25	2°♓30'02	
greatest brilliancy	850 Mar 27 j 01:36	4°♓04'05	-4.8m
desc. node	850 Apr 19 j 11:25	18°♓12'09	
	850 May 02 j 21:54	0°♈	
morning max el	850 May 05 j 21:09	2°♈49'08	45°53'57
	850 Jun 01 j 07:13	0°♉	
	850 Jun 28 j 04:38	0°♊	
	850 Jul 23 j 22:53	0°♋	
asc. node	850 Aug 10 j 14:54	21°♋06'17	
	850 Aug 17 j 23:24	0°♌	
	850 Sep 11 j 10:58	0°♍	
	850 Oct 05 j 13:43	0°♎	
greatest brilliancy	850 Oct 26 j 20:29	26°♎41'44	-3.9m
	850 Oct 29 j 11:33	0°♏	
morning set	850 Oct 30 j 23:37	1°♏53'24	
	850 Nov 22 j 07:30	0°♐	
desc. node	850 Nov 30 j 04:26	9°♐54'42	
superior conj	850 Dec 11 j 03:17	23°♐41'59	-0°25'46
minimum elong	850 Dec 10 j 20:32	23°♐20'46	0°25'26
max. Earth dist.	850 Dec 12 j 18:22	25°♐44'56	1.71072 AU
	850 Dec 16 j 03:28	0°♑	
	851 Jan 09 j 00:38	0°♒	
evening rise	851 Jan 21 j 15:59	15°♒49'52	
	851 Feb 02 j 00:14	0°♓	
	851 Feb 26 j 03:57	0°♈	
	851 Mar 22 j 13:49	0°♉	
asc. node	851 Mar 23 j 07:47	0°♉54'49	
	851 Apr 16 j 08:09	0°♊	
	851 May 11 j 14:10	0°♋	
	851 Jun 06 j 14:20	0°♌	
	851 Jul 04 j 01:17	0°♍	
desc. node	851 Jul 12 j 20:59	9°♍02'39	
evening max el	851 Jul 19 j 21:58	15°♍57'02	45°51'01
	851 Aug 04 j 16:15	0°♎	
greatest brilliancy	851 Aug 28 j 22:54	14°♎37'16	-4.8m
retrograde	851 Sep 07 j 00:51	16°♎07'52	
evening set	851 Sep 24 j 02:30	10°♎38'08	
inferior conj	851 Sep 27 j 21:19	8°♎22'18	-7°37'05
minimum elong	851 Sep 28 j 06:44	8°♎07'56	7°35'35
min. Earth dist.	851 Sep 28 j 18:41	7°♎49'45	0.27366 AU
morning rise	851 Oct 02 j 10:36	5°♎39'13	
direct	851 Oct 18 j 18:48	0°♎28'17	

greatest brilliancy	851 Oct 29 j 21:48	2°♎48'13	-4.9m
asc. node	851 Nov 03 j 00:23	4°♎41'06	
	851 Dec 04 j 14:59	0°♏	
morning max el	851 Dec 08 j 14:52	4°♏01'21	46°56'22
	852 Jan 01 j 14:16	0°♐	
	852 Jan 27 j 11:33	0°♑	
	852 Feb 21 j 15:30	0°♒	
desc. node	852 Feb 22 j 13:54	1°♒07'16	
	852 Mar 17 j 12:21	0°♓	
	852 Apr 11 j 06:05	0°♈	
	852 May 05 j 22:09	0°♉	
	852 May 30 j 12:27	0°♊	
morning set	852 Jun 09 j 15:19	12°♊22'38	
asc. node	852 Jun 14 j 17:17	18°♊36'11	
	852 Jun 24 j 00:08	0°♋	
max. Earth dist.	852 Jul 12 j 21:41	23°♋16'03	1.73208 AU
superior conj	852 Jul 15 j 22:51	27°♋01'51	1°05'06
minimum elong	852 Jul 15 j 14:13	26°♋35'12	1°04'49
	852 Jul 18 j 08:31	0°♌	
	852 Aug 11 j 13:53	0°♍	
evening rise	852 Aug 21 j 03:25	11°♍52'32	
	852 Sep 04 j 17:27	0°♎	
	852 Sep 28 j 20:42	0°♏	
desc. node	852 Oct 04 j 06:48	6°♏43'55	
	852 Oct 23 j 00:48	0°♐	
	852 Nov 16 j 06:56	0°♑	
	852 Dec 10 j 17:44	0°♒	
	853 Jan 04 j 15:26	0°♓	
asc. node	853 Jan 25 j 09:52	24°♓10'24	
	853 Jan 30 j 13:51	0°♈	
evening max el	853 Feb 24 j 07:55	26°♈17'26	46°07'24
	853 Feb 28 j 03:17	0°♉	
greatest brilliancy	853 Apr 03 j 19:30	25°♉18'33	-4.8m
retrograde	853 Apr 14 j 18:16	27°♉29'27	
evening set	853 Apr 30 j 05:20	22°♉49'23	
inferior conj	853 May 06 j 03:37	19°♉13'29	2°30'34
minimum elong	853 May 06 j 08:55	19°♉05'10	2°29'04
min. Earth dist.	853 May 06 j 06:14	19°♉09'22	0.28911 AU
morning rise	853 May 12 j 12:46	15°♉23'10	
desc. node	853 May 16 j 23:18	13°♉13'28	
direct	853 May 27 j 17:46	10°♉56'10	
greatest brilliancy	853 Jun 06 j 23:30	12°♉49'51	-4.7m
	853 Jul 03 j 17:10	0°♊	
morning max el	853 Jul 15 j 13:38	10°♊44'40	45°47'26
	853 Aug 03 j 13:31	0°♋	
	853 Aug 30 j 13:27	0°♌	
asc. node	853 Sep 07 j 02:50	8°♌46'29	
	853 Sep 25 j 00:01	0°♍	
	853 Oct 19 j 14:26	0°♎	
	853 Nov 12 j 18:08	0°♏	
	853 Dec 06 j 17:13	0°♐	
desc. node	853 Dec 27 j 16:09	26°♐17'14	
	853 Dec 30 j 15:11	0°♑	
morning set	854 Jan 15 j 23:45	20°♑30'13	
	854 Jan 23 j 13:50	0°♒	
	854 Feb 16 j 14:15	0°♓	
superior conj	854 Feb 25 j 16:55	11°♓20'42	-1°25'19
minimum elong	854 Feb 25 j 19:00	11°♓27'11	1°25'18
max. Earth dist.	854 Mar 01 j 17:43	16°♓21'42	1.72288 AU
	854 Mar 12 j 17:23	0°♈	
evening rise	854 Apr 05 j 15:49	29°♈34'47	
	854 Apr 06 j 00:00	0°♉	
asc. node	854 Apr 19 j 19:43	16°♉59'31	
	854 Apr 30 j 10:29	0°♊	
	854 May 25 j 01:02	0°♋	
	854 Jun 18 j 20:23	0°♌	
	854 Jul 13 j 22:42	0°♍	
	854 Aug 08 j 12:23	0°♎	
desc. node	854 Aug 09 j 08:50	0°♎59'12	
	854 Sep 03 j 22:29	0°♏	
evening max el	854 Oct 01 j 09:56	29°♏05'35	47°02'34
	854 Oct 02 j 07:53	0°♐	
greatest brilliancy	854 Nov 10 j 21:23	29°♐49'38	-4.9m
	854 Nov 11 j 09:09	0°♑	
retrograde	854 Nov 20 j 19:56	1°♑41'36	
	854 Nov 29 j 22:03	30°℞♐	
asc. node	854 Nov 30 j 12:10	29°♐46'35	
evening set	854 Dec 05 j 04:15	27°♐35'16	
inferior conj	854 Dec 11 j 08:29	23°♐57'24	2°46'33
minimum elong	854 Dec 11 j 02:26	24°♐06'41	2°44'40
min. Earth dist.	854 Dec 10 j 19:47	24°♐16'52	0.26440 AU
morning rise	854 Dec 17 j 00:59	20°♐36'38	
direct	854 Dec 31 j 16:45	16°♐21'29	
greatest brilliancy	855 Jan 10 j 06:01	18°♐05'42	-4.9m
	855 Jan 30 j 03:20	0°♑	
morning max el	855 Feb 19 j 17:57	18°♑38'04	46°36'21
	855 Mar 02 j 20:24	0°♒	
desc. node	855 Mar 22 j 01:48	20°♒52'47	
	855 Mar 30 j 04:43	0°♓	
	855 Apr 25 j 06:23	0°♈	
	855 May 20 j 18:00	0°♉	
	855 Jun 14 j 20:47	0°♊	
	855 Jul 09 j 15:53	0°♋	
asc. node	855 Jul 13 j 05:04	4°♋19'32	
	855 Aug 03 j 03:34	0°♌	
morning set	855 Aug 17 j 16:31	17°♌58'42	
	855 Aug 27 j 08:44	0°♍	
	855 Sep 20 j 09:22	0°♎	
max. Earth dist.	855 Sep 21 j 01:03	0°♎49'04	1.71744 AU
superior conj	855 Sep 24 j 02:09	4°♎37'58	1°15'09
minimum elong	855 Sep 24 j 10:30	5°♎04'07	1°14'57
	855 Oct 14 j 07:42	0°♏	
desc. node	855 Nov 01 j 18:40	23°♏09'53	
evening rise	855 Nov 02 j 21:40	24°♏34'33	
	855 Nov 07 j 05:24	0°♐	
	855 Dec 01 j 03:36	0°♑	
	855 Dec 25 j 03:31	0°♒	
	856 Jan 18 j 07:27	0°♓	
	856 Feb 11 j 19:21	0°♈	
asc. node	856 Feb 22 j 21:53	13°♈23'46	
	856 Mar 07 j 21:16	0°♉	
	856 Apr 02 j 23:49	0°♊	
	856 May 01 j 06:14	0°♋	
evening max el	856 May 05 j 20:44	4°♋29'24	45°20'57
	856 Jun 07 j 21:39	0°♌	
greatest brilliancy	856 Jun 12 j 20:50	2°♌08'04	-4.7m
desc. node	856 Jun 13 j 11:11	2°♌20'42	
retrograde	856 Jun 23 j 09:07	4°♌07'17	
	856 Jul 08 j 01:48	30°℞♋	
evening set	856 Jul 09 j 11:55	29°♋13'23	
inferior conj	856 Jul 14 j 20:17	26°♋00'32	-6°31'24
minimum elong	856 Jul 14 j 10:21	26°♋15'58	6°29'29
min. Earth dist.	856 Jul 14 j 23:35	25°♋55'24	0.28835 AU
morning rise	856 Jul 19 j 08:27	23°♋15'31	
direct	856 Aug 05 j 10:18	17°♋45'01	
greatest brilliancy	856 Aug 16 j 05:25	19°♋50'46	-4.8m
	856 Sep 02 j 15:20	0°♌	
morning max el	856 Sep 24 j 03:33	19°♌04'07	46°22'40
asc. node	856 Oct 04 j 14:41	29°♌48'57	
	856 Oct 04 j 18:51	0°♍	
	856 Oct 31 j 14:42	0°♎	

	856 Nov 25 j 19:40	0°♏	
	856 Dec 20 j 08:45	0°♐	
	857 Jan 13 j 15:42	0°♑	
desc. node	857 Jan 24 j 04:03	13°♑01'12	
	857 Feb 06 j 20:59	0°♒	
	857 Mar 03 j 02:39	0°♓	
	857 Mar 27 j 09:39	0°♈	
morning set	857 Mar 31 j 02:21	4°♈33'26	
	857 Apr 20 j 18:15	0°♉	
superior conj	857 May 07 j 09:53	20°♉28'19	-0°23'14
minimum elong	857 May 07 j 14:37	20°♉42'51	0°23'00
max. Earth dist.	857 May 07 j 22:55	21°♉08'21	1.73537 AU
	857 May 15 j 04:03	0°♊	
asc. node	857 May 17 j 07:29	2°♊37'56	
	857 Jun 08 j 14:20	0°♋	
evening rise	857 Jun 12 j 17:47	5°♋05'15	
	857 Jul 03 j 00:43	0°♌	
	857 Jul 27 j 11:41	0°♍	
	857 Aug 21 j 00:33	0°♎	
desc. node	857 Sep 05 j 20:54	19°♎17'24	
	857 Sep 14 j 16:58	0°♏	
	857 Oct 09 j 15:14	0°♐	
	857 Nov 04 j 00:39	0°♑	
	857 Nov 30 j 13:09	0°♒	
evening max el	857 Dec 12 j 12:08	12°♒38'19	47°15'01
asc. node	857 Dec 28 j 00:07	27°♒30'59	
	857 Dec 30 j 20:56	0°♓	
greatest brilliancy	858 Jan 22 j 00:59	14°♓21'01	-4.9m
retrograde	858 Feb 01 j 11:47	16°♓26'38	
evening set	858 Feb 19 j 11:04	10°♓10'44	
min. Earth dist.	858 Feb 21 j 23:30	8°♓36'31	0.28028 AU
inferior conj	858 Feb 22 j 13:14	8°♓14'52	8°42'22
minimum elong	858 Feb 22 j 14:15	8°♓13'17	8°42'21
morning rise	858 Feb 25 j 17:36	6°♓15'57	
direct	858 Mar 15 j 10:35	0°♓13'22	
greatest brilliancy	858 Mar 24 j 15:08	1°♓47'16	-4.8m
desc. node	858 Apr 18 j 13:31	17°♓09'34	
	858 May 02 j 21:15	0°♈	
morning max el	858 May 03 j 12:46	0°♈37'09	45°54'58
	858 May 31 j 23:08	0°♉	
	858 Jun 27 j 17:58	0°♊	
	858 Jul 23 j 10:59	0°♋	
asc. node	858 Aug 09 j 17:02	20°♋37'41	
	858 Aug 17 j 10:52	0°♌	
	858 Sep 10 j 22:06	0°♍	
	858 Oct 05 j 00:42	0°♎	
greatest brilliancy	858 Oct 26 j 03:53	26°♎30'42	-3.9m
morning set	858 Oct 28 j 11:46	29°♎26'18	
	858 Oct 28 j 22:29	0°♏	
	858 Nov 21 j 18:26	0°♐	
desc. node	858 Nov 29 j 06:21	9°♐26'18	
superior conj	858 Dec 08 j 12:40	21°♐06'00	-0°21'52
minimum elong	858 Dec 08 j 06:53	20°♐47'46	0°21'36
max. Earth dist.	858 Dec 10 j 01:55	23°♐03'12	1.71062 AU
	858 Dec 15 j 14:25	0°♑	
	859 Jan 08 j 11:36	0°♒	
evening rise	859 Jan 19 j 02:36	13°♒18'43	
	859 Feb 01 j 11:13	0°♓	
	859 Feb 25 j 14:59	0°♈	
asc. node	859 Mar 22 j 09:54	0°♉26'57	
	859 Mar 22 j 01:04	0°♉	
	859 Apr 15 j 19:51	0°♊	
	859 May 11 j 02:47	0°♋	
	859 Jun 06 j 04:43	0°♌	
	859 Jul 03 j 19:50	0°♍	
desc. node	859 Jul 11 j 23:06	8°♍15'49	
evening max el	859 Jul 17 j 12:44	13°♍41'50	45°48'52
	859 Aug 05 j 03:59	0°♎	
greatest brilliancy	859 Aug 26 j 10:41	12°♎15'24	-4.8m
retrograde	859 Sep 04 j 14:03	13°♎46'35	
evening set	859 Sep 21 j 18:39	8°♎12'22	
inferior conj	859 Sep 25 j 10:39	6°♎00'16	-7°47'55
minimum elong	859 Sep 25 j 19:38	5°♎46'34	7°46'35
min. Earth dist.	859 Sep 26 j 07:34	5°♎28'22	0.27432 AU
morning rise	859 Sep 29 j 20:18	3°♎22'14	
	859 Oct 06 j 17:05	30°℞♍	
direct	859 Oct 16 j 09:32	28°♍05'31	
	859 Oct 26 j 09:48	0°♎	
greatest brilliancy	859 Oct 27 j 11:22	0°♎24'25	-4.9m
asc. node	859 Nov 02 j 02:21	3°♎05'40	
	859 Dec 04 j 14:32	0°♏	
morning max el	859 Dec 06 j 05:20	1°♏38'31	46°55'51
	860 Jan 01 j 06:56	0°♐	
	860 Jan 27 j 01:42	0°♑	
	860 Feb 21 j 04:20	0°♒	
desc. node	860 Feb 21 j 15:59	0°♒35'03	
	860 Mar 17 j 00:21	0°♓	
	860 Apr 10 j 17:31	0°♈	
	860 May 05 j 09:11	0°♉	
	860 May 29 j 23:16	0°♊	
morning set	860 Jun 07 j 09:46	10°♊19'15	
asc. node	860 Jun 13 j 19:18	18°♊09'28	
	860 Jun 23 j 10:52	0°♋	
max. Earth dist.	860 Jul 10 j 17:04	21°♋14'43	1.73247 AU
superior conj	860 Jul 13 j 17:12	24°♋57'16	1°03'02
minimum elong	860 Jul 13 j 08:30	24°♋30'24	1°02'45
	860 Jul 17 j 19:16	0°♌	
	860 Aug 11 j 00:44	0°♍	
evening rise	860 Aug 18 j 20:07	9°♍41'29	
	860 Sep 04 j 04:29	0°♎	
	860 Sep 28 j 08:00	0°♏	
desc. node	860 Oct 03 j 08:48	6°♏14'55	
	860 Oct 22 j 12:27	0°♐	
	860 Nov 15 j 19:02	0°♑	
	860 Dec 10 j 06:28	0°♒	
	861 Jan 04 j 05:17	0°♓	
asc. node	861 Jan 24 j 12:01	23°♓32'16	
	861 Jan 30 j 06:07	0°♈	
evening max el	861 Feb 21 j 23:39	24°♈03'42	46°09'51
	861 Feb 28 j 03:07	0°♉	
greatest brilliancy	861 Apr 01 j 13:03	23°♉10'12	-4.8m
retrograde	861 Apr 12 j 10:40	25°♉20'02	
evening set	861 Apr 27 j 23:46	20°♉37'41	
inferior conj	861 May 03 j 20:05	17°♉04'08	2°49'27
minimum elong	861 May 04 j 01:58	16°♉54'52	2°47'48
min. Earth dist.	861 May 03 j 22:42	17°♉00'02	0.28896 AU
morning rise	861 May 10 j 04:28	13°♉14'32	
desc. node	861 May 16 j 01:13	10°♉31'09	
direct	861 May 25 j 10:12	8°♉47'15	
greatest brilliancy	861 Jun 04 j 14:38	10°♉39'41	-4.7m
	861 Jul 03 j 21:11	0°♊	
morning max el	861 Jul 13 j 04:45	8°♊32'55	45°46'45
	861 Aug 03 j 06:29	0°♋	
	861 Aug 30 j 03:22	0°♌	
asc. node	861 Sep 06 j 04:56	8°♌13'15	
	861 Sep 24 j 12:38	0°♍	
	861 Oct 19 j 02:24	0°♎	
	861 Nov 12 j 05:46	0°♏	
	861 Dec 06 j 04:39	0°♐	
desc. node	861 Dec 26 j 18:15	25°♐48'26	
	861 Dec 30 j 02:27	0°♑	

morning set	862 Jan 13 j 09:37	17°♉55'46	
	862 Jan 23 j 00:59	0°♒	
	862 Feb 16 j 01:18	0°♓	
superior conj	862 Feb 23 j 05:41	8°♓56'46	-1°25'36
minimum elong	862 Feb 23 j 06:50	9°♓00'20	1°25'37
max. Earth dist.	862 Feb 27 j 09:17	14°♓06'33	1.72231 AU
	862 Mar 12 j 04:23	0°♈	
evening rise	862 Apr 03 j 07:03	27°♈19'55	
	862 Apr 05 j 11:01	0°♉	
asc. node	862 Apr 18 j 21:41	16°♉31'44	
	862 Apr 29 j 21:36	0°♊	
	862 May 24 j 12:23	0°♋	
	862 Jun 18 j 08:12	0°♌	
	862 Jul 13 j 11:22	0°♍	
desc. node	862 Aug 08 j 10:58	0°♎24'21	
	862 Aug 08 j 02:32	0°♎	
	862 Sep 03 j 15:32	0°♏	
evening max el	862 Sep 28 j 22:28	26°♏38'26	47°00'22
	862 Oct 02 j 08:37	0°♐	
greatest brilliancy	862 Nov 08 j 11:26	27°♐20'56	-4.9m
retrograde	862 Nov 18 j 07:35	29°♐10'58	
asc. node	862 Nov 29 j 14:16	26°♐36'23	
evening set	862 Dec 02 j 15:41	25°♐06'12	
inferior conj	862 Dec 08 j 20:39	21°♐27'49	2°22'58
minimum elong	862 Dec 08 j 15:23	21°♐35'54	2°21'19
min. Earth dist.	862 Dec 08 j 09:46	21°♐44'29	0.26417 AU
morning rise	862 Dec 14 j 15:19	18°♐04'01	
direct	862 Dec 29 j 04:13	13°♐52'01	
greatest brilliancy	863 Jan 07 j 20:20	15°♐38'21	-4.9m
	863 Jan 30 j 16:43	0°♑	
morning max el	863 Feb 17 j 05:50	16°♑10'00	46°37'50
	863 Mar 02 j 15:58	0°♒	
desc. node	863 Mar 21 j 03:52	20°♒13'15	
	863 Mar 29 j 19:58	0°♓	
	863 Apr 24 j 19:42	0°♈	
	863 May 20 j 06:17	0°♉	
	863 Jun 14 j 08:25	0°♊	
	863 Jul 09 j 03:08	0°♋	
asc. node	863 Jul 12 j 07:15	3°♋52'01	
	863 Aug 02 j 14:36	0°♌	
morning set	863 Aug 15 j 09:10	15°♌47'22	
	863 Aug 26 j 19:44	0°♍	
max. Earth dist.	863 Sep 18 j 15:27	28°♍29'19	1.71798 AU
	863 Sep 19 j 20:26	0°♎	
superior conj	863 Sep 21 j 16:49	2°♎18'54	1°16'43
minimum elong	863 Sep 22 j 00:36	2°♎43'19	1°16'32
	863 Oct 13 j 18:53	0°♏	
evening rise	863 Oct 31 j 08:50	22°♏03'37	
desc. node	863 Oct 31 j 20:40	22°♏40'44	
	863 Nov 06 j 16:44	0°♐	
	863 Nov 30 j 15:04	0°♑	
	863 Dec 24 j 15:10	0°♒	
	864 Jan 17 j 19:22	0°♓	
	864 Feb 11 j 07:45	0°♈	
asc. node	864 Feb 21 j 23:57	12°♈51'53	
	864 Mar 07 j 10:36	0°♉	
	864 Apr 02 j 15:14	0°♊	
	864 May 01 j 03:28	0°♋	
evening max el	864 May 03 j 11:47	2°♋16'17	45°21'29
greatest brilliancy	864 Jun 10 j 11:01	29°♋55'47	-4.7m
	864 Jun 10 j 15:41	0°♌	
desc. node	864 Jun 12 j 13:22	0°♌37'35	
retrograde	864 Jun 21 j 01:13	1°♌56'51	
	864 Jul 01 j 00:06	30°℞♋	
evening set	864 Jul 07 j 00:53	27°♋06'14	
inferior conj	864 Jul 12 j 12:11	23°♋49'24	-6°17'39
minimum elong	864 Jul 12 j 02:12	24°♋04'53	6°15'39
min. Earth dist.	864 Jul 12 j 14:58	23°♋45'03	0.28856 AU
morning rise	864 Jul 17 j 03:12	21°♋00'26	
direct	864 Aug 03 j 02:14	15°♋33'25	
greatest brilliancy	864 Aug 13 j 21:26	17°♋39'21	-4.8m
	864 Sep 03 j 03:48	0°♌	
morning max el	864 Sep 21 j 19:07	16°♌48'55	46°21'14
asc. node	864 Oct 03 j 16:39	29°♌04'09	
	864 Oct 04 j 13:35	0°♍	
	864 Oct 31 j 05:38	0°♎	
	864 Nov 25 j 09:03	0°♏	
	864 Dec 19 j 21:19	0°♐	
	865 Jan 13 j 03:46	0°♑	
desc. node	865 Jan 23 j 06:12	12°♑30'57	
	865 Feb 06 j 08:42	0°♒	
	865 Mar 02 j 14:04	0°♓	
	865 Mar 26 j 20:51	0°♈	
morning set	865 Mar 28 j 17:47	2°♈18'36	
	865 Apr 20 j 05:16	0°♉	
superior conj	865 May 05 j 03:13	18°♉20'25	-0°26'20
minimum elong	865 May 05 j 08:33	18°♉36'47	0°26'05
max. Earth dist.	865 May 05 j 19:36	19°♉10'44	1.73519 AU
	865 May 14 j 15:01	0°♊	
asc. node	865 May 16 j 09:33	2°♊10'36	
	865 Jun 08 j 01:21	0°♋	
evening rise	865 Jun 10 j 12:45	3°♋02'19	
	865 Jul 02 j 11:54	0°♌	
	865 Jul 26 j 23:11	0°♍	
	865 Aug 20 j 12:29	0°♎	
desc. node	865 Sep 04 j 22:57	18°♎46'14	
	865 Sep 14 j 05:34	0°♏	
	865 Oct 09 j 04:50	0°♐	
	865 Nov 03 j 16:02	0°♑	
	865 Nov 30 j 08:24	0°♒	
evening max el	865 Dec 10 j 03:26	10°♒17'42	47°16'13
asc. node	865 Dec 27 j 02:16	26°♒26'24	
	865 Dec 31 j 08:10	0°♓	
greatest brilliancy	866 Jan 19 j 15:35	11°♓59'51	-4.9m
retrograde	866 Jan 30 j 03:34	14°♓06'29	
evening set	866 Feb 17 j 01:30	7°♓51'15	
min. Earth dist.	866 Feb 19 j 12:54	6°♓18'47	0.27974 AU
inferior conj	866 Feb 20 j 03:58	5°♓55'05	8°43'27
minimum elong	866 Feb 20 j 04:08	5°♓54'48	8°43'28
morning rise	866 Feb 23 j 07:00	3°♓58'29	
	866 Mar 02 j 21:54	30°℞♒	
direct	866 Mar 13 j 01:00	27°♒54'31	
greatest brilliancy	866 Mar 22 j 03:56	29°♒27'38	-4.8m
	866 Mar 23 j 16:58	0°♓	
desc. node	866 Apr 17 j 15:29	16°♓06'44	
morning max el	866 May 01 j 04:26	28°♓23'55	45°56'02
	866 May 02 j 20:11	0°♈	
	866 May 31 j 15:12	0°♉	
	866 Jun 27 j 07:32	0°♊	
	866 Jul 22 j 23:22	0°♋	
asc. node	866 Aug 08 j 19:02	20°♋07'44	
	866 Aug 16 j 22:38	0°♌	
	866 Sep 10 j 09:32	0°♍	
	866 Oct 04 j 11:58	0°♎	
greatest brilliancy	866 Oct 25 j 11:37	26°♎19'47	-3.9m
morning set	866 Oct 26 j 00:27	27°♎00'07	
	866 Oct 28 j 09:41	0°♏	
	866 Nov 21 j 05:37	0°♐	
desc. node	866 Nov 28 j 08:32	8°♐57'58	
superior conj	866 Dec 05 j 22:28	18°♐30'30	-0°17'58

minimum elong	866 Dec 05 j 17:40	18°♐15'25	0°17'45
max. Earth dist.	866 Dec 07 j 11:05	20°♐25'45	1.71052 AU
	866 Dec 15 j 01:37	0°♑	
	867 Jan 07 j 22:50	0°♒	
evening rise	867 Jan 16 j 13:15	10°♒46'40	
	867 Jan 31 j 22:29	0°♓	
	867 Feb 25 j 02:21	0°♈	
asc. node	867 Mar 21 j 11:50	29°♈57'31	
	867 Mar 21 j 12:39	0°♉	
	867 Apr 15 j 07:55	0°♊	
	867 May 10 j 15:47	0°♋	
	867 Jun 05 j 19:35	0°♌	
	867 Jul 03 j 15:12	0°♍	
desc. node	867 Jul 11 j 01:11	7°♍27'23	
evening max el	867 Jul 15 j 03:14	11°♍25'18	45°46'40
	867 Aug 05 j 20:05	0°♎	
greatest brilliancy	867 Aug 23 j 23:10	9°♎53'48	-4.8m
retrograde	867 Sep 02 j 02:48	11°♎24'48	
evening set	867 Sep 19 j 10:44	5°♎46'34	
inferior conj	867 Sep 23 j 00:05	3°♎37'59	-7°57'49
minimum elong	867 Sep 23 j 08:31	3°♎25'04	7°56'41
min. Earth dist.	867 Sep 23 j 20:49	3°♎06'16	0.27495 AU
morning rise	867 Sep 27 j 06:02	1°♎04'54	
	867 Sep 29 j 04:27	30°℞♍	
direct	867 Oct 13 j 23:55	25°♍42'29	
greatest brilliancy	867 Oct 25 j 01:13	28°♍00'27	-4.9m
	867 Oct 29 j 09:12	0°♎	
asc. node	867 Nov 01 j 04:24	1°♎33'07	
morning max el	867 Dec 03 j 18:55	29°♎12'55	46°55'31
	867 Dec 04 j 13:18	0°♏	
	867 Dec 31 j 23:25	0°♐	
	868 Jan 26 j 15:49	0°♑	
desc. node	868 Feb 20 j 18:00	0°♒02'27	
	868 Feb 20 j 17:12	0°♒	
	868 Mar 16 j 12:27	0°♓	
	868 Apr 10 j 05:05	0°♈	
	868 May 04 j 20:24	0°♉	
	868 May 29 j 10:14	0°♊	
morning set	868 Jun 05 j 04:03	8°♊14'55	
asc. node	868 Jun 12 j 21:29	17°♊42'48	
	868 Jun 22 j 21:43	0°♋	
max. Earth dist.	868 Jul 08 j 11:51	19°♋11'18	1.73283 AU
superior conj	868 Jul 11 j 11:32	22°♋52'18	1°00'53
minimum elong	868 Jul 11 j 02:48	22°♋25'24	1°00'36
	868 Jul 17 j 06:07	0°♌	
	868 Aug 10 j 11:41	0°♍	
evening rise	868 Aug 16 j 13:00	7°♍30'40	
	868 Sep 03 j 15:39	0°♎	
	868 Sep 27 j 19:27	0°♏	
desc. node	868 Oct 02 j 10:48	5°♏45'25	
	868 Oct 22 j 00:15	0°♐	
	868 Nov 15 j 07:14	0°♑	
	868 Dec 09 j 19:17	0°♒	
	869 Jan 03 j 19:13	0°♓	
asc. node	869 Jan 23 j 14:03	22°♓53'37	
	869 Jan 29 j 22:36	0°♈	
evening max el	869 Feb 19 j 14:30	21°♈47'45	46°12'14
	869 Feb 28 j 04:04	0°♉	
greatest brilliancy	869 Mar 30 j 07:00	21°♉02'19	-4.8m
retrograde	869 Apr 10 j 02:55	23°♉10'53	
evening set	869 Apr 25 j 18:23	18°♉25'55	
inferior conj	869 May 01 j 12:42	14°♉55'04	3°07'58
minimum elong	869 May 01 j 19:08	14°♉44'54	3°06'13
min. Earth dist.	869 May 01 j 15:35	14°♉50'31	0.28884 AU
morning rise	869 May 07 j 20:08	11°♉06'19	
desc. node	869 May 15 j 03:25	7°♉53'06	
direct	869 May 23 j 02:13	6°♉38'26	
greatest brilliancy	869 Jun 02 j 06:31	8°♉30'18	-4.7m
	869 Jul 03 j 23:36	0°♊	
morning max el	869 Jul 10 j 19:39	6°♊20'27	45°46'11
	869 Aug 02 j 23:08	0°♋	
	869 Aug 29 j 17:07	0°♌	
asc. node	869 Sep 05 j 06:57	7°♌40'03	
	869 Sep 24 j 01:08	0°♍	
	869 Oct 18 j 14:17	0°♎	
	869 Nov 11 j 17:21	0°♏	
	869 Dec 05 j 16:02	0°♐	
desc. node	869 Dec 25 j 20:22	25°♐19'52	
	869 Dec 29 j 13:40	0°♑	
morning set	870 Jan 10 j 19:39	15°♑21'56	
	870 Jan 22 j 12:02	0°♒	
	870 Feb 15 j 12:14	0°♓	
superior conj	870 Feb 20 j 18:44	6°♓34'02	-1°25'44
minimum elong	870 Feb 20 j 18:56	6°♓34'42	1°25'45
max. Earth dist.	870 Feb 24 j 23:36	11°♓47'56	1.72170 AU
	870 Mar 11 j 15:14	0°♈	
evening rise	870 Mar 31 j 22:29	25°♈06'04	
	870 Apr 04 j 21:53	0°♉	
asc. node	870 Apr 17 j 23:48	16°♉04'48	
	870 Apr 29 j 08:34	0°♊	
	870 May 23 j 23:37	0°♋	
	870 Jun 17 j 19:57	0°♌	
	870 Jul 12 j 23:59	0°♍	
desc. node	870 Aug 07 j 12:58	29°♍49'16	
	870 Aug 07 j 16:42	0°♎	
	870 Sep 03 j 08:45	0°♏	
evening max el	870 Sep 26 j 10:32	24°♏10'55	46°58'12
	870 Oct 02 j 10:24	0°♐	
greatest brilliancy	870 Nov 06 j 01:16	24°♐52'35	-4.9m
retrograde	870 Nov 15 j 19:33	26°♐41'15	
asc. node	870 Nov 28 j 16:27	23°♐21'56	
evening set	870 Nov 30 j 03:20	22°♐37'13	
inferior conj	870 Dec 06 j 08:50	18°♐58'49	1°59'07
minimum elong	870 Dec 06 j 04:23	19°♐05'37	1°57'42
min. Earth dist.	870 Dec 05 j 23:45	19°♐12'43	0.26400 AU
morning rise	870 Dec 12 j 05:34	15°♐32'23	
direct	870 Dec 26 j 15:44	11°♐22'49	
greatest brilliancy	871 Jan 05 j 10:45	13°♐11'38	-4.9m
	871 Jan 31 j 02:28	0°♑	
morning max el	871 Feb 14 j 18:52	13°♑45'14	46°39'28
	871 Mar 02 j 10:44	0°♒	
desc. node	871 Mar 20 j 05:52	19°♒34'41	
	871 Mar 29 j 10:44	0°♓	
	871 Apr 24 j 08:38	0°♈	
	871 May 19 j 18:12	0°♉	
	871 Jun 13 j 19:44	0°♊	
	871 Jul 08 j 14:07	0°♋	
asc. node	871 Jul 11 j 09:15	3°♋24'41	
	871 Aug 02 j 01:25	0°♌	
morning set	871 Aug 13 j 01:58	13°♌37'17	
	871 Aug 26 j 06:30	0°♍	
max. Earth dist.	871 Sep 16 j 06:54	26°♍13'38	1.71849 AU
superior conj	871 Sep 19 j 07:35	0°♎01'04	1°18'08
minimum elong	871 Sep 19 j 14:47	0°♎23'36	1°17'59
	871 Sep 19 j 07:15	0°♎	
	871 Oct 13 j 05:48	0°♏	
evening rise	871 Oct 28 j 20:10	19°♏34'07	
desc. node	871 Oct 30 j 22:49	22°♏12'56	
	871 Nov 06 j 03:47	0°♐	
	871 Nov 30 j 02:17	0°♑	
	871 Dec 24 j 02:35	0°♒	

	872 Jan 17 j 07:05	0°♓	
	872 Feb 10 j 19:56	0°♈	
asc. node	872 Feb 21 j 01:58	12°♈20'30	
	872 Mar 06 j 23:43	0°♉	
	872 Apr 02 j 06:28	0°♊	
evening max el	872 May 01 j 03:47	0°♋06'50	45°22'08
	872 May 01 j 00:57	0°♋	
greatest brilliancy	872 Jun 08 j 01:08	27°♋45'07	-4.7m
desc. node	872 Jun 11 j 15:25	28°♋52'14	
retrograde	872 Jun 18 j 17:42	29°♋48'05	
evening set	872 Jul 04 j 14:13	25°♋00'41	
inferior conj	872 Jul 10 j 04:15	21°♋39'54	-6°03'30
minimum elong	872 Jul 09 j 18:16	21°♋55'22	6°01'25
min. Earth dist.	872 Jul 10 j 06:18	21°♋36'42	0.28877 AU
morning rise	872 Jul 14 j 22:05	18°♋47'01	
direct	872 Jul 31 j 18:51	13°♋23'34	
greatest brilliancy	872 Aug 11 j 13:05	15°♋28'58	-4.8m
	872 Sep 03 j 12:33	0°♌	
morning max el	872 Sep 19 j 11:32	14°♌37'02	46°19'39
asc. node	872 Oct 02 j 18:45	28°♌21'08	
	872 Oct 04 j 07:31	0°♍	
	872 Oct 30 j 20:04	0°♎	
	872 Nov 24 j 22:00	0°♏	
	872 Dec 19 j 09:29	0°♐	
	873 Jan 12 j 15:27	0°♑	
desc. node	873 Jan 22 j 08:09	12°♑01'15	
	873 Feb 05 j 20:02	0°♒	
	873 Mar 02 j 01:09	0°♓	
morning set	873 Mar 26 j 09:12	0°♈04'39	
	873 Mar 26 j 07:41	0°♈	
	873 Apr 19 j 15:57	0°♉	
superior conj	873 May 02 j 20:40	16°♉13'53	-0°29'23
minimum elong	873 May 03 j 02:34	16°♉32'02	0°29'07
max. Earth dist.	873 May 03 j 17:48	17°♉18'52	1.73494 AU
	873 May 14 j 01:35	0°♊	
asc. node	873 May 15 j 11:44	1°♊44'49	
	873 Jun 07 j 11:58	0°♋	
evening rise	873 Jun 08 j 07:58	1°♋01'23	
	873 Jul 01 j 22:42	0°♌	
	873 Jul 26 j 10:18	0°♍	
	873 Aug 20 j 00:06	0°♎	
desc. node	873 Sep 04 j 00:57	18°♎15'50	
	873 Sep 13 j 17:53	0°♏	
	873 Oct 08 j 18:13	0°♐	
	873 Nov 03 j 07:17	0°♑	
	873 Nov 30 j 03:51	0°♒	
evening max el	873 Dec 07 j 19:20	7°♒59'29	47°17'21
asc. node	873 Dec 26 j 04:15	25°♒20'51	
	873 Dec 31 j 22:36	0°♓	
greatest brilliancy	874 Jan 17 j 06:15	9°♓39'38	-4.9m
retrograde	874 Jan 27 j 19:13	11°♓46'48	
evening set	874 Feb 14 j 15:30	5°♓33'05	
min. Earth dist.	874 Feb 17 j 02:10	4°♓01'45	0.27918 AU
inferior conj	874 Feb 17 j 18:35	3°♓35'54	8°43'46
minimum elong	874 Feb 17 j 17:56	3°♓36'56	8°43'46
morning rise	874 Feb 20 j 20:37	1°♓40'58	
	874 Feb 23 j 18:05	30°♑♒	
direct	874 Mar 10 j 15:36	25°♒36'30	
greatest brilliancy	874 Mar 19 j 16:23	27°♒08'16	-4.8m
	874 Mar 26 j 11:04	0°♓	
desc. node	874 Apr 16 j 17:40	15°♓06'45	
morning max el	874 Apr 28 j 19:49	26°♓10'56	45°57'10
	874 May 02 j 17:47	0°♈	
	874 May 31 j 06:36	0°♉	
	874 Jun 26 j 20:36	0°♊	
	874 Jul 22 j 11:17	0°♋	

asc. node	874 Aug 07 j 21:06	19°♋39'16	
	874 Aug 16 j 09:57	0°♌	
	874 Sep 09 j 20:35	0°♍	
	874 Oct 03 j 22:54	0°♎	
morning set	874 Oct 23 j 13:04	24°♎34'38	
	874 Oct 27 j 20:35	0°♏	
	874 Nov 20 j 16:32	0°♐	
desc. node	874 Nov 27 j 10:38	8°♐30'10	
superior conj	874 Dec 03 j 07:58	15°♐54'58	-0°14'01
minimum elong	874 Dec 03 j 04:13	15°♐43'10	0°13'50
behind sun begin	874 Dec 02 j 13:49	14°♐57'51	
behind sun end	874 Dec 03 j 18:37	16°♐28'28	
max. Earth dist.	874 Dec 04 j 17:29	17°♐40'27	1.71043 AU
	874 Dec 14 j 12:34	0°♑	
	875 Jan 07 j 09:47	0°♒	
evening rise	875 Jan 13 j 23:23	8°♒13'50	
	875 Jan 31 j 09:28	0°♓	
	875 Feb 24 j 13:26	0°♈	
asc. node	875 Mar 20 j 14:00	29°♈29'33	
	875 Mar 20 j 24:00	0°♉	
	875 Apr 14 j 19:46	0°♊	
	875 May 10 j 04:34	0°♋	
	875 Jun 05 j 10:17	0°♌	
	875 Jul 03 j 10:39	0°♍	
desc. node	875 Jul 10 j 03:12	6°♍39'09	
evening max el	875 Jul 12 j 17:08	9°♍08'40	45°44'37
	875 Aug 06 j 16:42	0°♎	
greatest brilliancy	875 Aug 21 j 12:10	7°♎34'37	-4.8m
retrograde	875 Aug 30 j 15:20	9°♎05'11	
evening set	875 Sep 17 j 02:50	3°♎23'08	
inferior conj	875 Sep 20 j 13:47	1°♎17'52	-8°06'42
minimum elong	875 Sep 20 j 21:37	1°♎05'52	8°05'45
min. Earth dist.	875 Sep 21 j 10:32	0°♎46'04	0.27562 AU
	875 Sep 22 j 16:45	30°♑♍	
morning rise	875 Sep 24 j 16:06	28°♍49'37	
direct	875 Oct 11 j 14:02	23°♍21'22	
greatest brilliancy	875 Oct 22 j 15:53	25°♍39'03	-4.9m
asc. node	875 Oct 31 j 06:36	0°♎05'14	
	875 Oct 31 j 03:13	0°♎	
morning max el	875 Dec 01 j 08:02	26°♎46'52	46°54'55
	875 Dec 04 j 10:54	0°♏	
	875 Dec 31 j 15:26	0°♐	
	876 Jan 26 j 05:37	0°♑	
desc. node	876 Feb 19 j 20:06	29°♑30'42	
	876 Feb 20 j 05:48	0°♒	
	876 Mar 16 j 00:16	0°♓	
	876 Apr 09 j 16:24	0°♈	
	876 May 04 j 07:22	0°♉	
	876 May 28 j 21:00	0°♊	
morning set	876 Jun 02 j 22:17	6°♊11'03	
asc. node	876 Jun 11 j 23:28	17°♊16'10	
	876 Jun 22 j 08:22	0°♋	
max. Earth dist.	876 Jul 06 j 06:25	17°♋07'52	1.73315 AU
superior conj	876 Jul 09 j 06:04	20°♋48'42	0°58'41
minimum elong	876 Jul 08 j 21:22	20°♋21'53	0°58'22
	876 Jul 16 j 16:45	0°♌	
	876 Aug 09 j 22:23	0°♍	
evening rise	876 Aug 14 j 06:17	5°♍22'05	
	876 Sep 03 j 02:33	0°♎	
	876 Sep 27 j 06:39	0°♏	
desc. node	876 Oct 01 j 13:00	5°♏17'23	
	876 Oct 21 j 11:49	0°♐	
	876 Nov 14 j 19:17	0°♑	
	876 Dec 09 j 08:02	0°♒	
	877 Jan 03 j 09:13	0°♓	

asc. node	877 Jan 22 j 16:05	22°♓14'43	
	877 Jan 29 j 15:22	0°♈	
evening max el	877 Feb 17 j 04:34	19°♈29'45	46°14'45
	877 Feb 28 j 06:25	0°♉	
greatest brilliancy	877 Mar 28 j 00:30	18°♉53'32	-4.8m
retrograde	877 Apr 07 j 19:00	21°♉01'25	
evening set	877 Apr 23 j 12:51	16°♉13'20	
inferior conj	877 Apr 29 j 05:07	12°♉45'33	3°26'22
minimum elong	877 Apr 29 j 12:04	12°♉34'34	3°24'30
min. Earth dist.	877 Apr 29 j 08:22	12°♉40'24	0.28872 AU
morning rise	877 May 05 j 11:25	8°♉58'02	
desc. node	877 May 14 j 05:30	5°♉19'00	
direct	877 May 20 j 17:39	4°♉28'57	
greatest brilliancy	877 May 30 j 22:33	6°♉20'55	-4.7m
	877 Jul 04 j 00:35	0°♊	
morning max el	877 Jul 08 j 10:52	4°♊08'56	45°45'50
	877 Aug 02 j 15:23	0°♋	
	877 Aug 29 j 06:38	0°♌	
asc. node	877 Sep 04 j 09:02	7°♌07'37	
	877 Sep 23 j 13:25	0°♍	
	877 Oct 18 j 01:59	0°♎	
	877 Nov 11 j 04:44	0°♏	
	877 Dec 05 j 03:14	0°♐	
desc. node	877 Dec 24 j 22:20	24°♐51'10	
	877 Dec 29 j 00:46	0°♑	
morning set	878 Jan 08 j 05:23	12°♑47'17	
	878 Jan 21 j 23:02	0°♒	
	878 Feb 14 j 23:09	0°♓	
superior conj	878 Feb 18 j 07:11	4°♓09'22	-1°25'43
minimum elong	878 Feb 18 j 06:24	4°♓06'57	1°25'42
max. Earth dist.	878 Feb 22 j 09:54	9°♓16'44	1.72113 AU
	878 Mar 11 j 02:07	0°♈	
evening rise	878 Mar 29 j 13:15	22°♈50'04	
	878 Apr 04 j 08:46	0°♉	
asc. node	878 Apr 17 j 01:55	15°♉37'50	
	878 Apr 28 j 19:34	0°♊	
	878 May 23 j 10:54	0°♋	
	878 Jun 17 j 07:46	0°♌	
	878 Jul 12 j 12:44	0°♍	
desc. node	878 Aug 06 j 15:03	29°♍14'10	
	878 Aug 07 j 07:02	0°♎	
	878 Sep 03 j 02:18	0°♏	
evening max el	878 Sep 23 j 23:24	21°♏45'58	46°56'14
	878 Oct 02 j 13:28	0°♐	
greatest brilliancy	878 Nov 03 j 14:37	22°♐24'30	-4.9m
retrograde	878 Nov 13 j 08:04	24°♐12'34	
evening set	878 Nov 27 j 15:24	20°♐08'42	
asc. node	878 Nov 27 j 18:22	20°♐04'45	
inferior conj	878 Dec 03 j 21:09	16°♐30'34	1°35'07
minimum elong	878 Dec 03 j 17:34	16°♐36'02	1°33'57
min. Earth dist.	878 Dec 03 j 13:30	16°♐42'13	0.26389 AU
morning rise	878 Dec 09 j 19:48	13°♐01'58	
direct	878 Dec 24 j 04:00	8°♐54'22	
greatest brilliancy	879 Jan 03 j 00:51	10°♐45'15	-4.9m
	879 Jan 31 j 09:28	0°♑	
morning max el	879 Feb 12 j 08:58	11°♑23'11	46°40'44
	879 Mar 02 j 05:05	0°♒	
desc. node	879 Mar 19 j 08:02	18°♒56'38	
	879 Mar 29 j 01:26	0°♓	
	879 Apr 23 j 21:39	0°♈	
	879 May 19 j 06:15	0°♉	
	879 Jun 13 j 07:11	0°♊	
	879 Jul 08 j 01:11	0°♋	
asc. node	879 Jul 10 j 11:17	2°♋57'09	
	879 Aug 01 j 12:19	0°♌	
morning set	879 Aug 10 j 18:37	11°♌26'32	
	879 Aug 25 j 17:23	0°♍	
max. Earth dist.	879 Sep 13 j 21:05	23°♍53'44	1.71897 AU
superior conj	879 Sep 16 j 22:27	27°♍43'09	1°19'25
minimum elong	879 Sep 17 j 05:01	28°♍03'42	1°19'19
	879 Sep 18 j 18:12	0°♎	
	879 Oct 12 j 16:50	0°♏	
evening rise	879 Oct 26 j 07:43	17°♏05'04	
desc. node	879 Oct 30 j 00:52	21°♏44'34	
	879 Nov 05 j 14:55	0°♐	
	879 Nov 29 j 13:34	0°♑	
	879 Dec 23 j 14:03	0°♒	
	880 Jan 16 j 18:51	0°♓	
	880 Feb 10 j 08:15	0°♈	
asc. node	880 Feb 20 j 04:06	11°♈49'00	
	880 Mar 06 j 13:05	0°♉	
	880 Apr 01 j 22:11	0°♊	
evening max el	880 Apr 28 j 20:28	27°♊58'06	45°22'47
	880 Apr 30 j 23:42	0°♋	
greatest brilliancy	880 Jun 05 j 15:31	25°♋33'41	-4.7m
desc. node	880 Jun 10 j 17:23	27°♋01'42	
retrograde	880 Jun 16 j 09:54	27°♋37'51	
evening set	880 Jul 02 j 03:36	22°♋53'51	
inferior conj	880 Jul 07 j 20:08	19°♋29'08	-5°48'51
minimum elong	880 Jul 07 j 10:15	19°♋44'29	5°46'41
min. Earth dist.	880 Jul 07 j 21:29	19°♋27'03	0.28894 AU
morning rise	880 Jul 12 j 16:46	16°♋32'16	
direct	880 Jul 29 j 11:35	11°♋12'41	
greatest brilliancy	880 Aug 09 j 04:05	13°♋16'49	-4.8m
	880 Sep 03 j 19:14	0°♌	
morning max el	880 Sep 17 j 03:28	12°♌23'21	46°18'03
asc. node	880 Oct 01 j 20:55	27°♌38'05	
	880 Oct 04 j 01:20	0°♍	
	880 Oct 30 j 10:35	0°♎	
	880 Nov 24 j 11:06	0°♏	
	880 Dec 18 j 21:47	0°♐	
	881 Jan 12 j 03:15	0°♑	
desc. node	881 Jan 21 j 10:16	11°♑31'42	
	881 Feb 05 j 07:29	0°♒	
	881 Mar 01 j 12:20	0°♓	
morning set	881 Mar 24 j 00:40	27°♓50'20	
	881 Mar 25 j 18:41	0°♈	
	881 Apr 19 j 02:49	0°♉	
superior conj	881 Apr 30 j 13:57	14°♉06'04	-0°32'25
minimum elong	881 Apr 30 j 20:24	14°♉25'53	0°32'07
max. Earth dist.	881 May 01 j 16:26	15°♉27'27	1.73473 AU
	881 May 13 j 12:26	0°♊	
asc. node	881 May 14 j 13:42	1°♊17'35	
evening rise	881 Jun 06 j 02:52	28°♊58'34	
	881 Jun 06 j 22:53	0°♋	
	881 Jul 01 j 09:49	0°♌	
	881 Jul 25 j 21:45	0°♍	
	881 Aug 19 j 12:03	0°♎	
desc. node	881 Sep 03 j 03:07	17°♎44'56	
	881 Sep 13 j 06:34	0°♏	
	881 Oct 08 j 08:03	0°♐	
	881 Nov 02 j 23:05	0°♑	
	881 Nov 30 j 00:11	0°♒	
evening max el	881 Dec 05 j 11:16	5°♒40'29	47°18'27
asc. node	881 Dec 25 j 06:22	24°♒13'08	
	882 Jan 01 j 18:21	0°♓	
greatest brilliancy	882 Jan 14 j 21:39	7°♓19'46	-4.9m
retrograde	882 Jan 25 j 10:42	9°♓26'33	
evening set	882 Feb 12 j 05:17	3°♓15'18	
min. Earth dist.	882 Feb 14 j 15:51	1°♓44'03	0.27855 AU
inferior conj	882 Feb 15 j 09:20	1°♓16'29	8°43'16

minimum elong	882 Feb 15 j 07:52	1°♓18'49	8°43'13
	882 Feb 17 j 10:14	30°℞♒	
morning rise	882 Feb 18 j 10:43	29°♒22'29	
direct	882 Mar 08 j 06:07	23°♒18'26	
greatest brilliancy	882 Mar 17 j 05:10	24°♒48'50	-4.8m
	882 Mar 28 j 03:49	0°♓	
desc. node	882 Apr 15 j 19:44	14°♓07'36	
morning max el	882 Apr 26 j 10:25	23°♓55'26	45°58'10
	882 May 02 j 14:49	0°♈	
	882 May 30 j 22:02	0°♉	
	882 Jun 26 j 09:53	0°♊	
	882 Jul 21 j 23:31	0°♋	
asc. node	882 Aug 06 j 23:16	19°♋10'08	
	882 Aug 15 j 21:38	0°♌	
	882 Sep 09 j 07:57	0°♍	
	882 Oct 03 j 10:08	0°♎	
morning set	882 Oct 21 j 01:36	22°♎07'58	
	882 Oct 27 j 07:47	0°♏	
	882 Nov 20 j 03:47	0°♐	
desc. node	882 Nov 26 j 12:35	8°♐00'58	
superior conj	882 Nov 30 j 17:32	13°♐18'39	-0°10'02
minimum elong	882 Nov 30 j 14:51	13°♐10'11	0°09'54
behind sun begin	882 Nov 29 j 17:26	12°♐02'48	
behind sun end	882 Dec 01 j 12:15	14°♐17'34	
max. Earth dist.	882 Dec 01 j 20:50	14°♐44'35	1.71037 AU
	882 Dec 13 j 23:50	0°♑	
	883 Jan 06 j 21:04	0°♒	
evening rise	883 Jan 11 j 09:32	5°♒39'54	
	883 Jan 30 j 20:45	0°♓	
	883 Feb 24 j 00:48	0°♈	
asc. node	883 Mar 19 j 16:06	29°♈00'37	
	883 Mar 20 j 11:36	0°♉	
	883 Apr 14 j 07:53	0°♊	
	883 May 09 j 17:41	0°♋	
	883 Jun 05 j 01:29	0°♌	
	883 Jul 03 j 07:09	0°♍	
desc. node	883 Jul 09 j 05:19	5°♍49'10	
evening max el	883 Jul 10 j 06:19	6°♍49'11	45°42'29
	883 Aug 07 j 21:52	0°♎	
greatest brilliancy	883 Aug 19 j 01:19	5°♎14'24	-4.8m
retrograde	883 Aug 28 j 03:48	6°♎44'45	
evening set	883 Sep 14 j 18:43	0°♎58'53	
	883 Sep 16 j 10:09	30°℞♍	
inferior conj	883 Sep 18 j 03:31	28°♍56'49	-8°14'40
minimum elong	883 Sep 18 j 10:41	28°♍45'49	8°13'53
min. Earth dist.	883 Sep 19 j 00:29	28°♍24'40	0.27630 AU
morning rise	883 Sep 22 j 02:21	26°♍33'24	
direct	883 Oct 09 j 03:55	20°♍59'05	
greatest brilliancy	883 Oct 20 j 07:09	23°♍17'27	-4.9m
asc. node	883 Oct 30 j 08:33	28°♍38'49	
	883 Nov 01 j 08:49	0°♎	
morning max el	883 Nov 28 j 21:05	24°♎19'36	46°54'22
	883 Dec 04 j 08:09	0°♏	
	883 Dec 31 j 07:33	0°♐	
	884 Jan 25 j 19:38	0°♑	
desc. node	884 Feb 18 j 22:11	28°♑58'12	
	884 Feb 19 j 18:38	0°♒	
	884 Mar 15 j 12:21	0°♓	
	884 Apr 09 j 03:57	0°♈	
	884 May 03 j 18:34	0°♉	
	884 May 28 j 07:59	0°♊	
morning set	884 May 31 j 16:48	4°♊07'18	
asc. node	884 Jun 11 j 01:33	16°♊49'09	
	884 Jun 21 j 19:15	0°♋	
max. Earth dist.	884 Jul 04 j 02:43	15°♋09'02	1.73354 AU
superior conj	884 Jul 07 j 00:46	18°♋44'53	0°56'24
minimum elong	884 Jul 06 j 16:08	18°♋18'15	0°56'04
	884 Jul 16 j 03:39	0°♌	
	884 Aug 09 j 09:25	0°♍	
evening rise	884 Aug 11 j 23:44	3°♍13'05	
	884 Sep 02 j 13:48	0°♎	
	884 Sep 26 j 18:13	0°♏	
desc. node	884 Sep 30 j 15:00	4°♏47'34	
	884 Oct 20 j 23:45	0°♐	
	884 Nov 14 j 07:42	0°♑	
	884 Dec 08 j 21:11	0°♒	
	885 Jan 02 j 23:41	0°♓	
asc. node	885 Jan 21 j 18:14	21°♓34'47	
	885 Jan 29 j 08:49	0°♈	
evening max el	885 Feb 14 j 18:50	17°♈11'17	46°17'24
	885 Feb 28 j 10:46	0°♉	
greatest brilliancy	885 Mar 25 j 17:36	16°♉43'35	-4.8m
retrograde	885 Apr 05 j 11:34	18°♉51'37	
evening set	885 Apr 21 j 07:31	14°♉00'01	
inferior conj	885 Apr 26 j 21:37	10°♉35'36	3°44'28
minimum elong	885 Apr 27 j 05:03	10°♉23'52	3°42'29
min. Earth dist.	885 Apr 27 j 01:04	10°♉30'10	0.28857 AU
morning rise	885 May 03 j 02:42	6°♉49'47	
desc. node	885 May 13 j 07:25	2°♉49'33	
direct	885 May 18 j 09:10	2°♉19'01	
greatest brilliancy	885 May 28 j 14:36	4°♉11'22	-4.7m
	885 Jul 04 j 00:31	0°♊	
morning max el	885 Jul 06 j 02:57	1°♊59'14	45°45'31
	885 Aug 02 j 07:29	0°♋	
	885 Aug 28 j 20:13	0°♌	
asc. node	885 Sep 03 j 11:09	6°♌34'47	
	885 Sep 23 j 01:55	0°♍	
	885 Oct 17 j 13:56	0°♎	
	885 Nov 10 j 16:25	0°♏	
	885 Dec 04 j 14:44	0°♐	
desc. node	885 Dec 24 j 00:29	24°♐22'15	
	885 Dec 28 j 12:07	0°♑	
morning set	886 Jan 05 j 14:55	10°♑11'12	
	886 Jan 21 j 10:16	0°♒	
	886 Feb 14 j 10:18	0°♓	
superior conj	886 Feb 15 j 19:25	1°♓43'15	-1°25'30
minimum elong	886 Feb 15 j 17:39	1°♓37'43	1°25'30
max. Earth dist.	886 Feb 19 j 19:09	6°♓41'31	1.72058 AU
	886 Mar 10 j 13:13	0°♈	
evening rise	886 Mar 27 j 04:01	20°♈33'23	
	886 Apr 03 j 19:52	0°♉	
asc. node	886 Apr 16 j 03:54	15°♉09'46	
	886 Apr 28 j 06:46	0°♊	
	886 May 22 j 22:21	0°♋	
	886 Jun 16 j 19:44	0°♌	
	886 Jul 12 j 01:38	0°♍	
desc. node	886 Aug 05 j 17:10	28°♍38'35	
	886 Aug 06 j 21:38	0°♎	
	886 Sep 02 j 20:26	0°♏	
evening max el	886 Sep 21 j 13:08	19°♏22'39	46°53'54
	886 Oct 02 j 18:38	0°♐	
greatest brilliancy	886 Nov 01 j 03:15	19°♐54'18	-4.9m
retrograde	886 Nov 10 j 20:42	21°♐42'07	
evening set	886 Nov 25 j 03:27	17°♐38'17	
asc. node	886 Nov 26 j 20:30	16°♐41'54	
inferior conj	886 Dec 01 j 09:09	14°♐00'27	1°10'33
minimum elong	886 Dec 01 j 06:28	14°♐04'32	1°09'41
min. Earth dist.	886 Dec 01 j 02:47	14°♐10'08	0.26382 AU
morning rise	886 Dec 07 j 09:35	10°♐30'01	
direct	886 Dec 21 j 16:33	6°♐24'15	
greatest brilliancy	886 Dec 31 j 14:18	8°♐16'34	-4.9m

	887 Jan 31 j 14:45	0°♉	
morning max el	887 Feb 09 j 23:22	9°♉01'02	46°42'05
	887 Mar 01 j 23:14	0°♒	
desc. node	887 Mar 18 j 10:05	18°♒18'08	
	887 Mar 28 j 16:08	0°♓	
	887 Apr 23 j 10:41	0°♈	
	887 May 18 j 18:20	0°♉	
	887 Jun 12 j 18:39	0°♊	
	887 Jul 07 j 12:18	0°♋	
asc. node	887 Jul 09 j 13:29	2°♋30'01	
	887 Jul 31 j 23:15	0°♌	
morning set	887 Aug 08 j 11:50	9°♌17'37	
	887 Aug 25 j 04:16	0°♍	
max. Earth dist.	887 Sep 11 j 10:52	21°♍32'39	1.71949 AU
superior conj	887 Sep 14 j 13:50	25°♍26'58	1°20'33
minimum elong	887 Sep 14 j 19:44	25°♍45'24	1°20'28
	887 Sep 18 j 05:09	0°♎	
	887 Oct 12 j 03:55	0°♏	
evening rise	887 Oct 23 j 19:29	14°♏36'24	
desc. node	887 Oct 29 j 02:52	21°♏15'45	
	887 Nov 05 j 02:10	0°♐	
	887 Nov 29 j 01:00	0°♉	
	887 Dec 23 j 01:42	0°♒	
	888 Jan 16 j 06:49	0°♓	
	888 Feb 09 j 20:44	0°♈	
asc. node	888 Feb 19 j 06:10	11°♈16'52	
	888 Mar 06 j 02:39	0°♉	
	888 Apr 01 j 14:12	0°♊	
evening max el	888 Apr 26 j 13:19	25°♊49'41	45°23'33
	888 Apr 30 j 23:27	0°♋	
greatest brilliancy	888 Jun 03 j 06:48	23°♋23'43	-4.7m
desc. node	888 Jun 09 j 19:34	25°♋07'48	
retrograde	888 Jun 14 j 01:58	25°♋28'16	
evening set	888 Jun 29 j 17:23	20°♋47'45	
inferior conj	888 Jul 05 j 12:16	17°♋19'19	-5°33'43
minimum elong	888 Jul 05 j 02:32	17°♋34'28	5°31'32
min. Earth dist.	888 Jul 05 j 13:07	17°♋17'59	0.28904 AU
morning rise	888 Jul 10 j 11:33	14°♋18'23	
direct	888 Jul 27 j 04:21	9°♋02'57	
greatest brilliancy	888 Aug 06 j 19:11	11°♋05'32	-4.8m
	888 Sep 03 j 23:34	0°♌	
morning max el	888 Sep 14 j 18:40	10°♌08'42	46°16'29
asc. node	888 Sep 30 j 22:53	26°♌55'42	
	888 Oct 03 j 18:31	0°♍	
	888 Oct 30 j 00:46	0°♎	
	888 Nov 23 j 23:58	0°♏	
	888 Dec 18 j 09:59	0°♐	
	889 Jan 11 j 15:02	0°♉	
desc. node	889 Jan 20 j 12:24	11°♉02'08	
	889 Feb 04 j 18:58	0°♒	
	889 Feb 28 j 23:33	0°♓	
morning set	889 Mar 21 j 15:37	25°♓34'17	
	889 Mar 25 j 05:40	0°♈	
	889 Apr 18 j 13:39	0°♉	
superior conj	889 Apr 28 j 06:53	11°♉57'20	-0°35'26
minimum elong	889 Apr 28 j 13:51	12°♉18'45	0°35'06
max. Earth dist.	889 Apr 29 j 14:50	13°♉35'34	1.73445 AU
	889 May 12 j 23:13	0°♊	
asc. node	889 May 13 j 15:47	0°♊50'52	
evening rise	889 Jun 03 j 21:36	26°♊55'31	
	889 Jun 06 j 09:43	0°♋	
	889 Jun 30 j 20:50	0°♌	
	889 Jul 25 j 09:04	0°♍	
	889 Aug 18 j 23:50	0°♎	
desc. node	889 Sep 02 j 05:08	17°♎14'10	
	889 Sep 12 j 19:04	0°♏	
	889 Oct 07 j 21:43	0°♐	
	889 Nov 02 j 14:51	0°♉	
	889 Nov 29 j 21:00	0°♒	
evening max el	889 Dec 03 j 02:12	3°♒19'15	47°19'03
asc. node	889 Dec 24 j 08:28	23°♒03'39	
	890 Jan 02 j 21:24	0°♓	
greatest brilliancy	890 Jan 12 j 13:13	4°♓59'25	-4.9m
retrograde	890 Jan 23 j 01:17	7°♓05'09	
evening set	890 Feb 09 j 18:14	0°♓57'18	
	890 Feb 11 j 07:12	30°♑℞♒	
min. Earth dist.	890 Feb 12 j 05:40	29°♒24'41	0.27797 AU
inferior conj	890 Feb 12 j 23:46	28°♒56'08	8°41'40
minimum elong	890 Feb 12 j 21:27	28°♒59'47	8°41'36
morning rise	890 Feb 16 j 00:56	27°♒02'19	
direct	890 Mar 05 j 19:53	20°♒59'16	
greatest brilliancy	890 Mar 14 j 18:28	22°♒29'02	-4.8m
	890 Mar 29 j 08:21	0°♓	
desc. node	890 Apr 14 j 21:42	13°♓09'23	
morning max el	890 Apr 23 j 23:55	21°♓36'59	45°59'20
	890 May 02 j 11:09	0°♈	
	890 May 30 j 13:09	0°♉	
	890 Jun 25 j 22:54	0°♊	
	890 Jul 21 j 11:29	0°♋	
asc. node	890 Aug 06 j 01:14	18°♋41'11	
	890 Aug 15 j 09:02	0°♌	
	890 Sep 08 j 19:03	0°♍	
	890 Oct 02 j 21:05	0°♎	
morning set	890 Oct 18 j 14:43	19°♎44'05	
	890 Oct 26 j 18:41	0°♏	
	890 Nov 19 j 14:40	0°♐	
desc. node	890 Nov 25 j 14:46	7°♐33'33	
superior conj	890 Nov 28 j 03:44	10°♐45'26	-0°06'05
minimum elong	890 Nov 28 j 02:05	10°♐40'16	0°06'01
behind sun begin	890 Nov 27 j 01:11	9°♐21'54	
behind sun end	890 Nov 29 j 02:59	11°♐58'38	
max. Earth dist.	890 Nov 28 j 24:00	11°♐49'13	1.71035 AU
	890 Dec 13 j 10:45	0°♉	
	891 Jan 06 j 08:01	0°♒	
evening rise	891 Jan 08 j 19:55	3°♒07'42	
	891 Jan 30 j 07:46	0°♓	
	891 Feb 23 j 11:57	0°♈	
asc. node	891 Mar 18 j 18:03	28°♈31'44	
	891 Mar 19 j 23:02	0°♉	
	891 Apr 13 j 19:52	0°♊	
	891 May 09 j 06:43	0°♋	
	891 Jun 04 j 16:41	0°♌	
	891 Jul 03 j 04:04	0°♍	
evening max el	891 Jul 07 j 19:05	4°♍29'38	45°40'37
desc. node	891 Jul 08 j 07:24	4°♍59'01	
	891 Aug 09 j 15:04	0°♎	
greatest brilliancy	891 Aug 16 j 13:59	2°♎54'48	-4.8m
retrograde	891 Aug 25 j 16:39	4°♎25'44	
	891 Sep 09 j 23:03	30°♏℞♍	
evening set	891 Sep 12 j 10:23	28°♍36'00	
inferior conj	891 Sep 15 j 17:17	26°♍36'55	-8°21'46
minimum elong	891 Sep 15 j 23:46	26°♍26'59	8°21'08
min. Earth dist.	891 Sep 16 j 14:17	26°♍04'43	0.27696 AU
morning rise	891 Sep 19 j 12:48	24°♍18'24	
direct	891 Oct 06 j 17:55	18°♍37'54	
greatest brilliancy	891 Oct 17 j 22:31	20°♍57'25	-4.9m
asc. node	891 Oct 29 j 10:39	27°♍16'35	
	891 Nov 02 j 05:45	0°♎	
morning max el	891 Nov 26 j 10:52	21°♎55'36	46°53'59
	891 Dec 04 j 04:13	0°♏	
	891 Dec 30 j 22:56	0°♐	

	892 Jan 25 j 09:03	0°♉	
desc. node	892 Feb 18 j 00:12	28°♉26'50	
	892 Feb 19 j 06:59	0°♒	
	892 Mar 15 j 00:02	0°♓	
	892 Apr 08 j 15:11	0°♈	
	892 May 03 j 05:30	0°♉	
	892 May 27 j 18:43	0°♊	
morning set	892 May 29 j 10:50	2°♊02'47	
asc. node	892 Jun 10 j 03:42	16°♊23'10	
	892 Jun 21 j 05:52	0°♋	
max. Earth dist.	892 Jul 02 j 00:05	13°♋14'24	1.73387 AU
superior conj	892 Jul 04 j 19:02	16°♋40'37	0°54'00
minimum elong	892 Jul 04 j 10:30	16°♋14'19	0°53'41
	892 Jul 15 j 14:15	0°♌	
	892 Aug 08 j 20:09	0°♍	
evening rise	892 Aug 09 j 17:03	1°♍04'43	
	892 Sep 02 j 00:46	0°♎	
	892 Sep 26 j 05:29	0°♏	
desc. node	892 Sep 29 j 17:01	4°♏18'45	
	892 Oct 20 j 11:23	0°♐	
	892 Nov 13 j 19:47	0°♑	
	892 Dec 08 j 09:58	0°♒	
	893 Jan 02 j 13:48	0°♓	
asc. node	893 Jan 20 j 20:16	20°♓55'39	
	893 Jan 29 j 02:06	0°♈	
evening max el	893 Feb 12 j 09:38	14°♈55'32	46°19'58
	893 Feb 28 j 16:28	0°♉	
greatest brilliancy	893 Mar 23 j 09:54	14°♉33'43	-4.8m
retrograde	893 Apr 03 j 04:25	16°♉42'35	
evening set	893 Apr 19 j 02:10	11°♉47'13	
inferior conj	893 Apr 24 j 14:00	8°♉26'10	4°02'14
minimum elong	893 Apr 24 j 21:54	8°♉13'44	4°00'11
min. Earth dist.	893 Apr 24 j 17:19	8°♉20'57	0.28848 AU
morning rise	893 Apr 30 j 17:45	4°♉42'29	
desc. node	893 May 12 j 09:37	0°♉25'23	
direct	893 May 16 j 01:08	0°♉09'35	
greatest brilliancy	893 May 26 j 06:20	2°♉02'07	-4.7m
	893 Jul 03 j 23:08	0°♊	
morning max el	893 Jul 03 j 19:44	29°♉51'55	45°45'10
	893 Aug 01 j 23:04	0°♋	
	893 Aug 28 j 09:25	0°♌	
asc. node	893 Sep 02 j 13:09	6°♌02'42	
	893 Sep 22 j 14:02	0°♍	
	893 Oct 17 j 01:32	0°♎	
	893 Nov 10 j 03:43	0°♏	
	893 Dec 04 j 01:52	0°♐	
desc. node	893 Dec 23 j 02:34	23°♐54'14	
	893 Dec 27 j 23:06	0°♑	
morning set	894 Jan 03 j 00:42	7°♑36'54	
	894 Jan 20 j 21:07	0°♒	
superior conj	894 Feb 13 j 07:47	29°♒18'35	-1°25'09
minimum elong	894 Feb 13 j 05:02	29°♒10'00	1°25'08
	894 Feb 13 j 21:04	0°♓	
max. Earth dist.	894 Feb 17 j 06:36	4°♓14'12	1.72002 AU
	894 Mar 09 j 23:55	0°♈	
evening rise	894 Mar 24 j 18:56	18°♈18'20	
	894 Apr 03 j 06:35	0°♉	
asc. node	894 Apr 15 j 06:02	14°♉43'17	
	894 Apr 27 j 17:37	0°♊	
	894 May 22 j 09:31	0°♋	
	894 Jun 16 j 07:29	0°♌	
	894 Jul 11 j 14:23	0°♍	
desc. node	894 Aug 04 j 19:10	28°♍03'07	
	894 Aug 06 j 12:11	0°♎	
	894 Sep 02 j 14:44	0°♏	
evening max el	894 Sep 19 j 03:24	17°♏01'40	46°51'39
	894 Oct 03 j 01:30	0°♐	
greatest brilliancy	894 Oct 29 j 15:43	17°♐25'06	-4.9m
retrograde	894 Nov 08 j 09:19	19°♐12'26	
evening set	894 Nov 22 j 15:47	15°♐08'39	
asc. node	894 Nov 25 j 22:39	13°♐17'18	
inferior conj	894 Nov 28 j 21:07	11°♐31'10	0°45'52
minimum elong	894 Nov 28 j 19:22	11°♐33'50	0°45'18
min. Earth dist.	894 Nov 28 j 15:57	11°♐39'02	0.26376 AU
morning rise	894 Dec 04 j 23:05	7°♐59'01	
direct	894 Dec 19 j 05:21	3°♐55'09	
greatest brilliancy	894 Dec 29 j 03:28	5°♐48'15	-4.9m
	895 Jan 31 j 17:53	0°♑	
morning max el	895 Feb 07 j 13:23	6°♑38'42	46°43'24
	895 Mar 01 j 16:37	0°♒	
desc. node	895 Mar 17 j 12:05	17°♒40'53	
	895 Mar 28 j 06:18	0°♓	
	895 Apr 22 j 23:17	0°♈	
	895 May 18 j 06:01	0°♉	
	895 Jun 12 j 05:49	0°♊	
	895 Jul 06 j 23:10	0°♋	
asc. node	895 Jul 08 j 15:27	2°♋02'54	
	895 Jul 31 j 10:00	0°♌	
morning set	895 Aug 06 j 04:48	7°♌08'31	
	895 Aug 24 j 15:00	0°♍	
max. Earth dist.	895 Sep 08 j 22:10	19°♍04'29	1.72000 AU
superior conj	895 Sep 12 j 05:05	23°♍10'56	1°21'34
minimum elong	895 Sep 12 j 10:15	23°♍27'07	1°21'29
	895 Sep 17 j 15:56	0°♎	
	895 Oct 11 j 14:48	0°♏	
evening rise	895 Oct 21 j 07:03	12°♏07'49	
desc. node	895 Oct 28 j 05:02	20°♏48'01	
	895 Nov 04 j 13:13	0°♐	
	895 Nov 28 j 12:14	0°♑	
	895 Dec 22 j 13:10	0°♒	
	896 Jan 15 j 18:36	0°♓	
	896 Feb 09 j 09:03	0°♈	
asc. node	896 Feb 18 j 08:09	10°♈45'03	
	896 Mar 05 j 16:05	0°♉	
	896 Apr 01 j 06:13	0°♊	
evening max el	896 Apr 24 j 05:22	23°♊40'05	45°24'19
	896 May 01 j 00:00	0°♋	
greatest brilliancy	896 May 31 j 22:34	21°♋15'01	-4.7m
desc. node	896 Jun 08 j 21:35	23°♋10'23	
retrograde	896 Jun 11 j 17:32	23°♋19'28	
evening set	896 Jun 27 j 07:19	18°♋42'07	
inferior conj	896 Jul 03 j 04:26	15°♋10'16	-5°18'09
minimum elong	896 Jul 02 j 18:53	15°♋25'09	5°15'57
min. Earth dist.	896 Jul 03 j 05:07	15°♋09'11	0.28917 AU
morning rise	896 Jul 08 j 06:19	12°♋05'13	
direct	896 Jul 24 j 20:47	6°♋53'47	
greatest brilliancy	896 Aug 04 j 10:54	8°♋55'15	-4.8m
	896 Sep 04 j 02:11	0°♌	
morning max el	896 Sep 12 j 09:00	7°♌51'58	46°14'51
asc. node	896 Sep 30 j 00:59	26°♌14'12	
	896 Oct 03 j 11:24	0°♍	
	896 Oct 29 j 14:48	0°♎	
	896 Nov 23 j 12:45	0°♏	
	896 Dec 17 j 22:04	0°♐	
	897 Jan 11 j 02:41	0°♑	
desc. node	897 Jan 19 j 14:22	10°♑32'29	
	897 Feb 04 j 06:18	0°♒	
	897 Feb 28 j 10:38	0°♓	
morning set	897 Mar 19 j 06:30	23°♓18'18	
	897 Mar 24 j 16:33	0°♈	
	897 Apr 18 j 00:23	0°♉	

superior conj	897 Apr 25 j 23:58	9°♉49'20	-0°38'22
minimum elong	897 Apr 26 j 07:25	10°♉12'13	0°38'03
max. Earth dist.	897 Apr 27 j 12:11	11°♉40'41	1.73411 AU
	897 May 12 j 09:54	0°♊	
asc. node	897 May 12 j 17:56	0°♊24'41	
evening rise	897 Jun 01 j 16:29	24°♊53'14	
	897 Jun 05 j 20:29	0°♋	
	897 Jun 30 j 07:47	0°♌	
	897 Jul 24 j 20:22	0°♍	
	897 Aug 18 j 11:42	0°♎	
desc. node	897 Sep 01 j 07:09	16°♎43'04	
	897 Sep 12 j 07:45	0°♏	
	897 Oct 07 j 11:40	0°♐	
	897 Nov 02 j 07:02	0°♑	
	897 Nov 29 j 18:40	0°♒	
evening max el	897 Nov 30 j 16:08	0°♒54'59	47°19'49
asc. node	897 Dec 23 j 10:28	21°♒51'46	
	898 Jan 04 j 12:13	0°♓	
greatest brilliancy	898 Jan 10 j 04:59	2°♓38'59	-4.9m
retrograde	898 Jan 20 j 15:31	4°♓43'41	
	898 Feb 05 j 00:29	30°℞♒	
evening set	898 Feb 07 j 06:50	28°♒39'38	
min. Earth dist.	898 Feb 09 j 19:42	27°♒04'57	0.27735 AU
inferior conj	898 Feb 10 j 14:14	26°♒35'43	8°39'17
minimum elong	898 Feb 10 j 11:04	26°♒40'42	8°39'09
morning rise	898 Feb 13 j 15:33	24°♒41'36	
direct	898 Mar 03 j 09:14	18°♒39'50	
greatest brilliancy	898 Mar 12 j 08:18	20°♒09'41	-4.8m
	898 Mar 30 j 05:10	0°♓	
desc. node	898 Apr 13 j 23:55	12°♓12'58	
morning max el	898 Apr 21 j 13:18	19°♓18'01	46°00'38
	898 May 02 j 06:52	0°♈	
	898 May 30 j 04:04	0°♉	
	898 Jun 25 j 11:51	0°♊	
	898 Jul 20 j 23:26	0°♋	
asc. node	898 Aug 05 j 03:19	18°♋12'31	
	898 Aug 14 j 20:27	0°♌	
	898 Sep 08 j 06:13	0°♍	
	898 Oct 02 j 08:10	0°♎	
morning set	898 Oct 16 j 03:42	17°♎19'14	
	898 Oct 26 j 05:47	0°♏	
	898 Nov 19 j 01:49	0°♐	
desc. node	898 Nov 24 j 16:50	7°♐05'00	
superior conj	898 Nov 25 j 13:31	8°♐10'08	-0°02'05
minimum elong	898 Nov 25 j 12:57	8°♐08'20	0°02'03
behind sun begin	898 Nov 24 j 10:39	6°♐45'33	
behind sun end	898 Nov 26 j 15:15	9°♐31'08	
max. Earth dist.	898 Nov 26 j 02:26	8°♐50'47	1.71038 AU
	898 Dec 12 j 21:55	0°♑	
	899 Jan 05 j 19:11	0°♒	
evening rise	899 Jan 06 j 05:51	0°♒33'26	
	899 Jan 29 j 18:59	0°♓	
	899 Feb 22 j 23:18	0°♈	
asc. node	899 Mar 17 j 20:13	28°♈02'56	
	899 Mar 19 j 10:40	0°♉	
	899 Apr 13 j 08:03	0°♊	
	899 May 08 j 19:59	0°♋	
	899 Jun 04 j 08:14	0°♌	
	899 Jul 03 j 01:50	0°♍	
evening max el	899 Jul 05 j 08:30	2°♍11'40	45°38'54
desc. node	899 Jul 07 j 09:25	4°♍07'38	
	899 Aug 12 j 09:48	0°♎	
greatest brilliancy	899 Aug 14 j 02:02	0°♎34'56	-4.8m
retrograde	899 Aug 23 j 06:22	2°♎07'18	
	899 Sep 02 j 15:45	30°℞♍	
evening set	899 Sep 10 j 01:56	26°♍13'58	
inferior conj	899 Sep 13 j 07:15	24°♍17'18	-8°27'44
minimum elong	899 Sep 13 j 13:00	24°♍08'29	8°27'15
min. Earth dist.	899 Sep 14 j 03:48	23°♍45'50	0.27766 AU
morning rise	899 Sep 16 j 23:45	22°♍03'23	
direct	899 Oct 04 j 08:34	16°♍17'02	
greatest brilliancy	899 Oct 15 j 13:37	18°♍37'09	-4.9m
asc. node	899 Oct 28 j 12:49	25°♍56'45	
	899 Nov 02 j 21:31	0°♎	
morning max el	899 Nov 24 j 01:44	19°♎33'36	46°53'17
	899 Dec 04 j 00:04	0°♏	
	899 Dec 30 j 14:31	0°♐	
	900 Jan 24 j 22:47	0°♑	
desc. node	900 Feb 17 j 02:18	27°♑54'45	
	900 Feb 18 j 19:39	0°♒	
	900 Mar 14 j 12:00	0°♓	
	900 Apr 08 j 02:41	0°♈	
	900 May 02 j 16:40	0°♉	
morning set	900 May 27 j 05:02	29°♉58'00	
	900 May 27 j 05:41	0°♊	
asc. node	900 Jun 09 j 05:40	15°♊55'48	
	900 Jun 20 j 16:44	0°♋	
max. Earth dist.	900 Jun 29 j 22:41	11°♋22'41	1.73416 AU
superior conj	900 Jul 02 j 13:37	14°♋36'31	0°51'34
minimum elong	900 Jul 02 j 05:14	14°♋10'42	0°51'14
	900 Jul 15 j 01:07	0°♌	
evening rise	900 Aug 07 j 10:52	28°♌57'14	
	900 Aug 08 j 07:08	0°♍	
	900 Sep 01 j 11:58	0°♎	
	900 Sep 25 j 17:00	0°♏	
desc. node	900 Sep 28 j 19:12	3°♏49'44	
	900 Oct 19 j 23:18	0°♐	
	900 Nov 13 j 08:16	0°♑	
	900 Dec 07 j 23:16	0°♒	
	901 Jan 02 j 04:35	0°♓	
asc. node	901 Jan 19 j 22:17	20°♓14'37	
	901 Jan 28 j 20:21	0°♈	
evening max el	901 Feb 10 j 01:22	12°♈40'33	46°22'42
	901 Mar 01 j 01:18	0°♉	
greatest brilliancy	901 Mar 21 j 02:04	12°♉22'20	-4.8m
retrograde	901 Mar 31 j 21:35	14°♉32'03	
evening set	901 Apr 16 j 20:56	9°♉33'00	
inferior conj	901 Apr 22 j 06:21	6°♉15'17	4°19'42
minimum elong	901 Apr 22 j 14:39	6°♉02'13	4°17'35
min. Earth dist.	901 Apr 22 j 09:09	6°♉10'53	0.28832 AU
morning rise	901 Apr 28 j 08:35	2°♉34'03	
	901 May 03 j 16:16	30°℞♈	
desc. node	901 May 11 j 11:41	28°♈04'58	
direct	901 May 13 j 17:29	27°♈59'00	
greatest brilliancy	901 May 23 j 21:19	29°♈50'57	-4.7m
	901 May 24 j 07:29	0°♉	
morning max el	901 Jul 01 j 12:46	27°♉44'20	45°44'51
	901 Jul 03 j 21:14	0°♊	
	901 Aug 01 j 14:43	0°♋	
	901 Aug 27 j 22:48	0°♌	
asc. node	901 Sep 01 j 15:15	5°♌30'12	
	901 Sep 22 j 02:23	0°♍	
	901 Oct 16 j 13:22	0°♎	
	901 Nov 09 j 15:17	0°♏	
	901 Dec 03 j 13:16	0°♐	
desc. node	901 Dec 22 j 04:32	23°♐24'52	
	901 Dec 27 j 10:24	0°♑	
morning set	901 Dec 31 j 10:28	5°♑01'29	
	902 Jan 20 j 08:22	0°♒	
superior conj	902 Feb 10 j 19:36	26°♒50'47	-1°24'37
minimum elong	902 Feb 10 j 15:52	26°♒39'08	1°24'35

	902 Feb 13 j 08:15	0°♓	
max. Earth dist.	902 Feb 14 j 18:50	1°♓47'52	1.71950 AU
	902 Mar 09 j 11:03	0°♈	
evening rise	902 Mar 22 j 09:14	15°♈59'58	
	902 Apr 02 j 17:43	0°♉	
asc. node	902 Apr 14 j 08:06	14°♉15'19	
	902 Apr 27 j 04:52	0°♊	
	902 May 21 j 21:06	0°♋	
	902 Jun 15 j 19:40	0°♌	
	902 Jul 11 j 03:36	0°♍	
desc. node	902 Aug 03 j 21:15	27°♍26'39	
	902 Aug 06 j 03:15	0°♎	
	902 Sep 02 j 09:50	0°♏	
evening max el	902 Sep 16 j 17:59	14°♏40'47	46°49'19
	902 Oct 03 j 11:12	0°♐	
greatest brilliancy	902 Oct 27 j 04:44	14°♐56'26	-4.9m
retrograde	902 Nov 05 j 21:47	16°♐42'39	
evening set	902 Nov 20 j 04:36	12°♐38'54	
asc. node	902 Nov 25 j 00:33	9°♐51'46	
inferior conj	902 Nov 26 j 09:19	9°♐02'01	0°21'21
minimum elong	902 Nov 26 j 08:29	9°♐03'16	0°21'04
min. Earth dist.	902 Nov 26 j 05:28	9°♐07'51	0.26373 AU
morning rise	902 Dec 02 j 12:33	5°♐28'09	
direct	902 Dec 16 j 18:13	1°♐26'14	
greatest brilliancy	902 Dec 26 j 16:57	3°♐19'56	-4.9m
	903 Jan 31 j 19:49	0°♑	
morning max el	903 Feb 05 j 02:30	4°♑13'09	46°44'27
	903 Mar 01 j 10:00	0°♒	
desc. node	903 Mar 16 j 14:15	17°♒03'18	
	903 Mar 27 j 20:45	0°♓	
	903 Apr 22 j 12:14	0°♈	
	903 May 17 j 18:05	0°♉	
	903 Jun 11 j 17:19	0°♊	
	903 Jul 06 j 10:21	0°♋	
asc. node	903 Jul 07 j 17:30	1°♋35'07	
	903 Jul 30 j 21:01	0°♌	
morning set	903 Aug 03 j 21:52	4°♌58'58	
	903 Aug 24 j 02:01	0°♍	
max. Earth dist.	903 Sep 06 j 09:37	16°♍35'59	1.72054 AU
superior conj	903 Sep 09 j 20:43	20°♍55'21	1°22'25
minimum elong	903 Sep 10 j 01:11	21°♍09'18	1°22'23
	903 Sep 17 j 03:01	0°♎	
	903 Oct 11 j 02:00	0°♏	
evening rise	903 Oct 18 j 19:07	9°♏39'56	
desc. node	903 Oct 27 j 07:03	20°♏18'59	
	903 Nov 04 j 00:32	0°♐	
	903 Nov 27 j 23:43	0°♑	
	903 Dec 22 j 00:52	0°♒	
	904 Jan 15 j 06:38	0°♓	
	904 Feb 08 j 21:41	0°♈	
asc. node	904 Feb 17 j 10:18	10°♈12'44	
	904 Mar 05 j 05:56	0°♉	
	904 Mar 31 j 22:54	0°♊	
evening max el	904 Apr 21 j 20:41	21°♊27'30	45°25'09
	904 May 01 j 02:26	0°♋	
greatest brilliancy	904 May 29 j 14:43	19°♋05'38	-4.7m
desc. node	904 Jun 07 j 23:35	21°♋07'45	
retrograde	904 Jun 09 j 09:04	21°♋09'59	
evening set	904 Jun 24 j 21:28	16°♋35'22	
inferior conj	904 Jun 30 j 20:41	13°♋00'35	-5°02'14
minimum elong	904 Jun 30 j 11:23	13°♋15'07	5°00'00
min. Earth dist.	904 Jun 30 j 21:30	12°♋59'19	0.28928 AU
morning rise	904 Jul 06 j 01:05	9°♋51'36	
direct	904 Jul 22 j 12:49	4°♋43'56	
greatest brilliancy	904 Aug 02 j 03:11	6°♋45'04	-4.8m
	904 Sep 04 j 03:38	0°♌	
morning max el	904 Sep 09 j 22:53	5°♌33'37	46°13'18
asc. node	904 Sep 29 j 03:08	25°♌32'47	
	904 Oct 03 j 04:08	0°♍	
	904 Oct 29 j 04:53	0°♎	
	904 Nov 23 j 01:38	0°♏	
	904 Dec 17 j 10:17	0°♐	
	905 Jan 10 j 14:28	0°♑	
desc. node	905 Jan 18 j 16:29	10°♑02'53	
	905 Feb 03 j 17:46	0°♒	
	905 Feb 27 j 21:51	0°♓	
morning set	905 Mar 16 j 21:23	21°♓01'44	
	905 Mar 24 j 03:34	0°♈	
	905 Apr 17 j 11:18	0°♉	
superior conj	905 Apr 23 j 17:02	7°♉40'40	-0°41'16
minimum elong	905 Apr 24 j 00:55	8°♉04'56	0°40'56
max. Earth dist.	905 Apr 25 j 07:40	9°♉39'30	1.73381 AU
asc. node	905 May 11 j 19:54	29°♉57'15	
	905 May 11 j 20:48	0°♊	
evening rise	905 May 30 j 11:12	22°♊49'53	
	905 Jun 05 j 07:27	0°♋	
	905 Jun 29 j 18:56	0°♌	
	905 Jul 24 j 07:51	0°♍	
	905 Aug 17 j 23:43	0°♎	
desc. node	905 Aug 31 j 09:19	16°♎12'01	
	905 Sep 11 j 20:37	0°♏	
	905 Oct 07 j 01:51	0°♐	
	905 Nov 01 j 23:36	0°♑	
evening max el	905 Nov 28 j 05:34	28°♑29'11	47°20'29
	905 Nov 29 j 17:17	0°♒	
asc. node	905 Dec 22 j 12:35	20°♒37'55	
	906 Jan 07 j 02:19	0°♓	
greatest brilliancy	906 Jan 07 j 20:37	0°♓17'59	-4.9m
retrograde	906 Jan 18 j 05:56	2°♓22'12	
	906 Jan 28 j 23:18	30°♑℞♒	
evening set	906 Feb 04 j 19:04	26°♒22'14	
min. Earth dist.	906 Feb 07 j 09:46	24°♒45'00	0.27674 AU
inferior conj	906 Feb 08 j 04:43	24°♒15'10	8°35'58
minimum elong	906 Feb 08 j 00:44	24°♒21'26	8°35'44
morning rise	906 Feb 11 j 06:38	22°♒20'16	
direct	906 Feb 28 j 22:25	16°♒20'08	
greatest brilliancy	906 Mar 09 j 22:16	17°♒50'31	-4.8m
	906 Mar 30 j 20:36	0°♓	
desc. node	906 Apr 13 j 01:56	11°♓17'29	
morning max el	906 Apr 19 j 03:06	16°♓59'59	46°01'58
	906 May 02 j 02:01	0°♈	
	906 May 29 j 18:51	0°♉	
	906 Jun 25 j 00:48	0°♊	
	906 Jul 20 j 11:27	0°♋	
asc. node	906 Aug 04 j 05:28	17°♋43'50	
	906 Aug 14 j 07:56	0°♌	
	906 Sep 07 j 17:25	0°♍	
	906 Oct 01 j 19:14	0°♎	
morning set	906 Oct 13 j 16:53	14°♎55'11	
	906 Oct 25 j 16:51	0°♏	
	906 Nov 18 j 12:55	0°♐	
superior conj	906 Nov 22 j 23:23	5°♐35'10	0°01'57
minimum elong	906 Nov 22 j 23:55	5°♐36'50	0°01'56
behind sun begin	906 Nov 21 j 21:38	4°♐14'06	
behind sun end	906 Nov 24 j 02:11	6°♐59'32	
max. Earth dist.	906 Nov 23 j 08:23	6°♐03'31	1.71046 AU
desc. node	906 Nov 23 j 18:47	6°♐36'13	
	906 Dec 12 j 09:04	0°♑	
evening rise	907 Jan 03 j 15:54	27°♑59'28	
	907 Jan 05 j 06:21	0°♒	
	907 Jan 29 j 06:11	0°♓	

	907 Feb 22 j 10:38	0°♈	
asc. node	907 Mar 16 j 22:18	27°♈34'03	
	907 Mar 18 j 22:16	0°♉	
	907 Apr 12 j 20:13	0°♊	
	907 May 08 j 09:17	0°♋	
	907 Jun 03 j 23:59	0°♌	
evening max el	907 Jul 02 j 22:47	29°♌55'56	45°37'10
	907 Jul 03 j 00:30	0°♍	
desc. node	907 Jul 06 j 11:32	3°♍15'29	
greatest brilliancy	907 Aug 11 j 13:43	28°♍14'47	-4.8m
retrograde	907 Aug 20 j 20:26	29°♍48'45	
evening set	907 Sep 07 j 17:11	23°♍52'26	
inferior conj	907 Sep 10 j 21:09	21°♍57'42	-8°32'56
minimum elong	907 Sep 11 j 02:08	21°♍50'05	8°32'35
min. Earth dist.	907 Sep 11 j 16:54	21°♍27'30	0.27832 AU
morning rise	907 Sep 14 j 10:49	19°♍48'05	
direct	907 Oct 01 j 23:35	13°♍56'30	
greatest brilliancy	907 Oct 13 j 03:57	16°♍16'19	-4.9m
asc. node	907 Oct 27 j 14:45	24°♍39'18	
	907 Nov 03 j 09:12	0°♎	
morning max el	907 Nov 21 j 16:59	17°♎13'12	46°52'31
	907 Dec 03 j 19:11	0°♏	
	907 Dec 30 j 05:42	0°♐	
	908 Jan 24 j 12:13	0°♑	
desc. node	908 Feb 16 j 04:23	27°♑23'13	
	908 Feb 18 j 08:05	0°♒	
	908 Mar 13 j 23:46	0°♓	
	908 Apr 07 j 14:00	0°♈	
	908 May 02 j 03:39	0°♉	
morning set	908 May 24 j 23:22	27°♉54'18	
	908 May 26 j 16:26	0°♊	
asc. node	908 Jun 08 j 07:46	15°♊29'26	
	908 Jun 20 j 03:24	0°♋	
max. Earth dist.	908 Jun 27 j 21:45	9°♋33'04	1.73445 AU
superior conj	908 Jun 30 j 08:14	12°♋33'05	0°49'03
minimum elong	908 Jun 30 j 00:03	12°♋07'52	0°48'43
	908 Jul 14 j 11:50	0°♌	
evening rise	908 Aug 05 j 04:41	26°♌50'12	
	908 Aug 07 j 18:00	0°♍	
	908 Aug 31 j 23:04	0°♎	
	908 Sep 25 j 04:24	0°♏	
desc. node	908 Sep 27 j 21:11	3°♏20'27	
	908 Oct 19 j 11:05	0°♐	
	908 Nov 12 j 20:34	0°♑	
	908 Dec 07 j 12:24	0°♒	
	909 Jan 01 j 19:17	0°♓	
asc. node	909 Jan 19 j 00:27	19°♓34'14	
	909 Jan 28 j 14:47	0°♈	
evening max el	909 Feb 07 j 17:33	10°♈27'13	46°25'18
	909 Mar 01 j 12:55	0°♉	
greatest brilliancy	909 Mar 18 j 18:38	10°♉11'55	-4.8m
retrograde	909 Mar 29 j 14:38	12°♉21'41	
evening set	909 Apr 14 j 15:45	7°♉19'13	
inferior conj	909 Apr 19 j 22:37	4°♉04'48	4°36'55
minimum elong	909 Apr 20 j 07:16	3°♉51'10	4°34'46
min. Earth dist.	909 Apr 20 j 00:47	4°♉01'22	0.28813 AU
morning rise	909 Apr 25 j 23:06	0°♉26'08	
	909 Apr 26 j 18:11	30°℞♈	
desc. node	909 May 10 j 13:38	25°♈49'53	
direct	909 May 11 j 09:55	25°♈49'03	
greatest brilliancy	909 May 21 j 11:41	27°♈39'37	-4.7m
	909 May 26 j 23:47	0°♉	
morning max el	909 Jun 29 j 05:14	25°♉36'17	45°44'34
	909 Jul 03 j 18:10	0°♊	
	909 Aug 01 j 05:50	0°♋	
	909 Aug 27 j 11:50	0°♌	
asc. node	909 Aug 31 j 17:21	4°♌58'38	
	909 Sep 21 j 14:28	0°♍	
	909 Oct 16 j 00:59	0°♎	
	909 Nov 09 j 02:38	0°♏	
	909 Dec 03 j 00:27	0°♐	
desc. node	909 Dec 21 j 06:43	22°♐56'55	
	909 Dec 26 j 21:27	0°♑	
morning set	909 Dec 28 j 20:04	2°♑26'20	
	910 Jan 19 j 19:19	0°♒	
superior conj	910 Feb 08 j 07:12	24°♒23'10	-1°23'56
minimum elong	910 Feb 08 j 02:29	24°♒08'27	1°23'53
max. Earth dist.	910 Feb 12 j 09:10	29°♒28'57	1.71898 AU
	910 Feb 12 j 19:07	0°♓	
	910 Mar 08 j 21:54	0°♈	
evening rise	910 Mar 19 j 23:24	13°♈41'58	
	910 Apr 02 j 04:35	0°♉	
asc. node	910 Apr 13 j 10:07	13°♉47'58	
	910 Apr 26 j 15:52	0°♊	
	910 May 21 j 08:24	0°♋	
	910 Jun 15 j 07:34	0°♌	
	910 Jul 10 j 16:33	0°♍	
desc. node	910 Aug 02 j 23:23	26°♍51'06	
	910 Aug 05 j 18:10	0°♎	
	910 Sep 02 j 05:07	0°♏	
evening max el	910 Sep 14 j 07:37	12°♏18'24	46°46'42
	910 Oct 03 j 23:52	0°♐	
greatest brilliancy	910 Oct 24 j 18:09	12°♐28'33	-4.9m
retrograde	910 Nov 03 j 09:29	14°♐12'52	
evening set	910 Nov 17 j 17:26	10°♐08'55	
inferior conj	910 Nov 23 j 21:20	6°♐33'01	-0°03'31
minimum elong	910 Nov 23 j 21:28	6°♐32'49	0°03'28
transit middle	910 Nov 23 j 21:28	6°♐32'49	0°03'28
transit begin	910 Nov 23 j 17:29	6°♐38'53	
transit end	910 Nov 24 j 01:27	6°♐26'45	
min. Earth dist.	910 Nov 23 j 19:13	6°♐36'14	0.26373 AU
asc. node	910 Nov 24 j 02:43	6°♐24'49	
morning rise	910 Nov 30 j 01:35	2°♐57'32	
	910 Dec 07 j 03:09	30°℞♏	
direct	910 Dec 14 j 06:23	28°♏57'18	
	910 Dec 21 j 14:14	0°♐	
greatest brilliancy	910 Dec 24 j 06:50	0°♐52'09	-4.9m
	911 Jan 31 j 20:15	0°♑	
morning max el	911 Feb 02 j 14:36	1°♑45'29	46°45'37
	911 Mar 01 j 02:45	0°♒	
desc. node	911 Mar 15 j 16:18	16°♒26'38	
	911 Mar 27 j 10:42	0°♓	
	911 Apr 22 j 00:45	0°♈	
	911 May 17 j 05:46	0°♉	
	911 Jun 11 j 04:29	0°♊	
	911 Jul 05 j 21:12	0°♋	
asc. node	911 Jul 06 j 19:42	1°♋08'44	
	911 Jul 30 j 07:43	0°♌	
morning set	911 Aug 01 j 15:11	2°♌51'12	
	911 Aug 23 j 12:41	0°♍	
max. Earth dist.	911 Sep 03 j 23:21	14°♍15'44	1.72110 AU
superior conj	911 Sep 07 j 12:40	18°♍41'56	1°23'08
minimum elong	911 Sep 07 j 16:24	18°♍53'36	1°23'06
	911 Sep 16 j 13:45	0°♎	
	911 Oct 10 j 12:52	0°♏	
evening rise	911 Oct 16 j 07:23	7°♏13'48	
desc. node	911 Oct 26 j 09:06	19°♏50'55	
	911 Nov 03 j 11:35	0°♐	
	911 Nov 27 j 10:58	0°♑	
	911 Dec 21 j 12:22	0°♒	
	912 Jan 14 j 18:27	0°♓	

	912 Feb 08 j 10:07	0°♈	
asc. node	912 Feb 16 j 12:21	9°♈40'51	
	912 Mar 04 j 19:38	0°♉	
	912 Mar 31 j 15:37	0°♊	
evening max el	912 Apr 19 j 11:19	19°♊14'07	45°26'07
	912 May 01 j 06:04	0°♋	
greatest brilliancy	912 May 27 j 06:33	16°♋56'44	-4.7m
retrograde	912 Jun 07 j 00:50	19°♋01'33	
desc. node	912 Jun 07 j 01:47	19°♋01'33	
evening set	912 Jun 22 j 11:42	14°♋29'08	
inferior conj	912 Jun 28 j 12:55	10°♋51'48	-4°45'47
minimum elong	912 Jun 28 j 03:54	11°♋05'52	4°43'34
min. Earth dist.	912 Jun 28 j 13:56	10°♋50'12	0.28938 AU
morning rise	912 Jul 03 j 19:50	7°♋39'05	
direct	912 Jul 20 j 04:29	2°♋34'48	
greatest brilliancy	912 Jul 30 j 19:47	4°♋36'16	-4.7m
	912 Sep 04 j 03:26	0°♌	
morning max el	912 Sep 07 j 13:24	3°♌18'01	46°11'59
asc. node	912 Sep 28 j 05:06	24°♌52'27	
	912 Oct 02 j 20:11	0°♍	
	912 Oct 28 j 18:29	0°♎	
	912 Nov 22 j 14:07	0°♏	
	912 Dec 16 j 22:12	0°♐	
	913 Jan 10 j 02:00	0°♑	
desc. node	913 Jan 17 j 18:36	9°♑33'58	
	913 Feb 03 j 05:01	0°♒	
	913 Feb 27 j 08:50	0°♓	
morning set	913 Mar 14 j 11:40	18°♓43'51	
	913 Mar 23 j 14:22	0°♈	
	913 Apr 16 j 21:58	0°♉	
superior conj	913 Apr 21 j 09:44	5°♉31'40	-0°44'08
minimum elong	913 Apr 21 j 18:01	5°♉57'10	0°43'47
max. Earth dist.	913 Apr 23 j 01:54	7°♉35'15	1.73347 AU
asc. node	913 May 10 j 22:01	29°♉31'03	
	913 May 11 j 07:26	0°♊	
evening rise	913 May 28 j 05:48	20°♊46'55	
	913 Jun 04 j 18:10	0°♋	
	913 Jun 29 j 05:52	0°♌	
	913 Jul 23 j 19:08	0°♍	
	913 Aug 17 j 11:33	0°♎	
desc. node	913 Aug 30 j 11:19	15°♎41'12	
	913 Sep 11 j 09:17	0°♏	
	913 Oct 06 j 15:50	0°♐	
	913 Nov 01 j 16:06	0°♑	
evening max el	913 Nov 25 j 19:14	26°♑04'54	47°20'59
	913 Nov 29 j 16:31	0°♒	
asc. node	913 Dec 21 j 14:41	19°♒22'22	
greatest brilliancy	914 Jan 05 j 11:26	27°♒56'07	-4.9m
	914 Jan 15 j 03:13	0°♓	
retrograde	914 Jan 15 j 20:34	0°♓00'39	
	914 Jan 16 j 13:53	30°♑℞♒	
evening set	914 Feb 02 j 06:42	24°♒04'56	
min. Earth dist.	914 Feb 04 j 23:24	22°♒24'59	0.27617 AU
inferior conj	914 Feb 05 j 18:59	21°♒54'15	8°31'35
minimum elong	914 Feb 05 j 14:13	22°♒01'44	8°31'14
morning rise	914 Feb 08 j 21:57	19°♒58'01	
direct	914 Feb 26 j 11:39	13°♒59'56	
greatest brilliancy	914 Mar 07 j 11:50	15°♒30'46	-4.8m
	914 Mar 31 j 08:05	0°♓	
desc. node	914 Apr 12 j 03:57	10°♓23'20	
morning max el	914 Apr 16 j 17:41	14°♓43'58	46°03'22
	914 May 01 j 20:33	0°♈	
	914 May 29 j 09:18	0°♉	
	914 Jun 24 j 13:29	0°♊	
	914 Jul 19 j 23:13	0°♋	
asc. node	914 Aug 03 j 07:27	17°♋15'18	
	914 Aug 13 j 19:12	0°♌	
	914 Sep 07 j 04:26	0°♍	
	914 Oct 01 j 06:09	0°♎	
morning set	914 Oct 11 j 06:29	12°♎33'00	
	914 Oct 25 j 03:45	0°♏	
	914 Nov 17 j 23:50	0°♐	
superior conj	914 Nov 20 j 09:42	3°♐02'09	0°05'55
minimum elong	914 Nov 20 j 11:16	3°♐07'06	0°05'50
behind sun begin	914 Nov 19 j 10:24	1°♐48'48	
behind sun end	914 Nov 21 j 12:09	4°♐25'24	
max. Earth dist.	914 Nov 20 j 17:59	3°♐28'14	1.71052 AU
desc. node	914 Nov 22 j 21:00	6°♐08'49	
	914 Dec 11 j 19:59	0°♑	
evening rise	915 Jan 01 j 02:14	25°♑27'03	
	915 Jan 04 j 17:19	0°♒	
	915 Jan 28 j 17:15	0°♓	
	915 Feb 21 j 21:52	0°♈	
asc. node	915 Mar 16 j 00:16	27°♈05'01	
	915 Mar 18 j 09:49	0°♉	
	915 Apr 12 j 08:22	0°♊	
	915 May 07 j 22:37	0°♋	
	915 Jun 03 j 15:55	0°♌	
evening max el	915 Jun 30 j 13:54	27°♌42'34	45°35'33
	915 Jul 03 j 00:02	0°♍	
desc. node	915 Jul 05 j 13:37	2°♍22'34	
greatest brilliancy	915 Aug 09 j 01:29	25°♍55'28	-4.8m
retrograde	915 Aug 18 j 10:24	27°♍30'43	
evening set	915 Sep 05 j 08:16	21°♍32'04	
inferior conj	915 Sep 08 j 11:09	19°♍38'43	-8°37'20
minimum elong	915 Sep 08 j 15:21	19°♍32'18	8°37'04
min. Earth dist.	915 Sep 09 j 05:56	19°♍09'57	0.27896 AU
morning rise	915 Sep 11 j 22:13	17°♍32'53	
direct	915 Sep 29 j 14:57	11°♍36'43	
greatest brilliancy	915 Oct 10 j 17:49	13°♍55'20	-4.9m
asc. node	915 Oct 26 j 16:54	23°♍24'51	
	915 Nov 03 j 17:45	0°♎	
morning max el	915 Nov 19 j 08:14	14°♎53'10	46°51'48
	915 Dec 03 j 13:43	0°♏	
	915 Dec 29 j 20:35	0°♐	
	916 Jan 24 j 01:25	0°♑	
desc. node	916 Feb 15 j 06:24	26°♑51'56	
	916 Feb 17 j 20:20	0°♒	
	916 Mar 13 j 11:26	0°♓	
	916 Apr 07 j 01:15	0°♈	
	916 May 01 j 14:38	0°♉	
morning set	916 May 22 j 17:37	25°♉50'11	
	916 May 26 j 03:14	0°♊	
asc. node	916 Jun 07 j 09:56	15°♊03'08	
	916 Jun 19 j 14:06	0°♋	
max. Earth dist.	916 Jun 25 j 19:49	7°♋40'18	1.73469 AU
superior conj	916 Jun 28 j 02:42	10°♋29'13	0°46'28
minimum elong	916 Jun 27 j 18:45	10°♋04'46	0°46'08
	916 Jul 13 j 22:33	0°♌	
evening rise	916 Aug 02 j 22:29	24°♌43'07	
	916 Aug 07 j 04:52	0°♍	
	916 Aug 31 j 10:12	0°♎	
	916 Sep 24 j 15:52	0°♏	
desc. node	916 Sep 26 j 23:13	2°♏51'09	
	916 Oct 18 j 22:58	0°♐	
	916 Nov 12 j 09:00	0°♑	
	916 Dec 07 j 01:41	0°♒	
	917 Jan 01 j 10:09	0°♓	
asc. node	917 Jan 18 j 02:29	18°♓53'15	
	917 Jan 28 j 09:39	0°♈	
evening max el	917 Feb 05 j 09:35	8°♈13'27	46°27'50

	917 Mar 02 j 04:26	0°♉	
greatest brilliancy	917 Mar 16 j 11:48	8°♉02'19	-4.8m
retrograde	917 Mar 27 j 07:20	10°♉11'21	
evening set	917 Apr 12 j 10:45	5°♉05'35	
inferior conj	917 Apr 17 j 15:00	1°♉54'31	4°53'42
minimum elong	917 Apr 17 j 23:58	1°♉40'22	4°51'31
min. Earth dist.	917 Apr 17 j 16:44	1°♉51'46	0.28795 AU
	917 Apr 20 j 16:21	30°℞♈	
morning rise	917 Apr 23 j 13:32	28°♈18'24	
direct	917 May 09 j 02:26	23°♈39'19	
desc. node	917 May 09 j 15:51	23°♈39'41	
greatest brilliancy	917 May 19 j 02:18	25°♈28'20	-4.7m
	917 May 28 j 15:33	0°♉	
morning max el	917 Jun 26 j 21:04	23°♉26'18	45°44'15
	917 Jul 03 j 14:33	0°♊	
	917 Jul 31 j 20:53	0°♋	
	917 Aug 27 j 00:54	0°♌	
asc. node	917 Aug 30 j 19:22	4°♌26'36	
	917 Sep 21 j 02:37	0°♍	
	917 Oct 15 j 12:40	0°♎	
	917 Nov 08 j 14:05	0°♏	
	917 Dec 02 j 11:45	0°♐	
desc. node	917 Dec 20 j 08:45	22°♐28'00	
morning set	917 Dec 26 j 05:43	29°♐50'47	
	917 Dec 26 j 08:39	0°♑	
	918 Jan 19 j 06:25	0°♒	
superior conj	918 Feb 05 j 18:57	21°♒55'29	-1°23'04
minimum elong	918 Feb 05 j 13:17	21°♒37'50	1°23'00
max. Earth dist.	918 Feb 09 j 23:13	27°♒08'35	1.71839 AU
	918 Feb 12 j 06:09	0°♓	
	918 Mar 08 j 08:51	0°♈	
evening rise	918 Mar 17 j 13:41	11°♈23'49	
	918 Apr 01 j 15:33	0°♉	
asc. node	918 Apr 12 j 12:16	13°♉20'41	
	918 Apr 26 j 03:00	0°♊	
	918 May 20 j 19:54	0°♋	
	918 Jun 14 j 19:43	0°♌	
	918 Jul 10 j 05:49	0°♍	
desc. node	918 Aug 02 j 01:22	26°♍14'13	
	918 Aug 05 j 09:31	0°♎	
	918 Sep 02 j 01:13	0°♏	
evening max el	918 Sep 11 j 20:16	9°♏53'07	46°44'08
	918 Oct 04 j 17:00	0°♐	
greatest brilliancy	918 Oct 22 j 08:01	10°♐00'45	-4.9m
retrograde	918 Oct 31 j 20:51	11°♐42'53	
evening set	918 Nov 15 j 06:30	7°♐38'03	
inferior conj	918 Nov 21 j 09:26	4°♐03'42	-0°28'16
minimum elong	918 Nov 21 j 10:31	4°♐02'02	0°27'54
min. Earth dist.	918 Nov 21 j 09:21	4°♐03'49	0.26382 AU
asc. node	918 Nov 23 j 04:51	2°♐57'45	
morning rise	918 Nov 27 j 14:27	0°♐26'48	
	918 Nov 28 j 11:09	30°℞♏	
direct	918 Dec 11 j 18:10	26°♏27'33	
greatest brilliancy	918 Dec 21 j 21:23	28°♏24'25	-4.9m
	918 Dec 25 j 15:16	0°♐	
morning max el	919 Jan 31 j 02:40	29°♐16'40	46°46'52
	919 Jan 31 j 19:54	0°♑	
	919 Feb 28 j 19:28	0°♒	
desc. node	919 Mar 14 j 18:18	15°♒49'23	
	919 Mar 27 j 00:45	0°♓	
	919 Apr 21 j 13:25	0°♈	
	919 May 16 j 17:36	0°♉	
	919 Jun 10 j 15:50	0°♊	
	919 Jul 05 j 08:16	0°♋	
asc. node	919 Jul 05 j 21:39	0°♋40'52	
	919 Jul 29 j 18:41	0°♌	
morning set	919 Jul 30 j 08:29	0°♌42'35	
	919 Aug 22 j 23:39	0°♍	
max. Earth dist.	919 Sep 01 j 14:36	11°♍59'21	1.72166 AU
superior conj	919 Sep 05 j 04:36	16°♍27'33	1°23'44
minimum elong	919 Sep 05 j 07:34	16°♍36'51	1°23'42
	919 Sep 16 j 00:46	0°♎	
	919 Oct 10 j 00:01	0°♏	
evening rise	919 Oct 13 j 19:43	4°♏47'04	
desc. node	919 Oct 25 j 11:14	19°♏22'17	
	919 Nov 02 j 22:55	0°♐	
	919 Nov 26 j 22:32	0°♑	
	919 Dec 21 j 00:11	0°♒	
	920 Jan 14 j 06:39	0°♓	
	920 Feb 07 j 22:58	0°♈	
asc. node	920 Feb 15 j 14:22	9°♈07'40	
	920 Mar 04 j 09:48	0°♉	
	920 Mar 31 j 08:58	0°♊	
evening max el	920 Apr 17 j 02:11	17°♊00'39	45°27'22
	920 May 01 j 11:53	0°♋	
greatest brilliancy	920 May 24 j 21:56	14°♋46'57	-4.7m
retrograde	920 Jun 04 j 17:10	16°♋53'03	
desc. node	920 Jun 06 j 03:46	16°♋50'37	
evening set	920 Jun 20 j 02:16	12°♋22'19	
inferior conj	920 Jun 26 j 05:18	8°♋42'45	-4°29'00
minimum elong	920 Jun 25 j 20:38	8°♋56'16	4°26'49
min. Earth dist.	920 Jun 26 j 06:19	8°♋41'10	0.28949 AU
morning rise	920 Jul 01 j 14:41	5°♋26'36	
direct	920 Jul 17 j 20:26	0°♋25'19	
greatest brilliancy	920 Jul 28 j 12:31	2°♋27'18	-4.7m
	920 Sep 04 j 02:33	0°♌	
morning max el	920 Sep 05 j 05:03	1°♌04'30	46°10'31
asc. node	920 Sep 27 j 07:14	24°♌12'00	
	920 Oct 02 j 12:20	0°♍	
	920 Oct 28 j 08:19	0°♎	
	920 Nov 22 j 02:54	0°♏	
	920 Dec 16 j 10:23	0°♐	
	921 Jan 09 j 13:50	0°♑	
desc. node	921 Jan 16 j 20:34	9°♑03'38	
	921 Feb 02 j 16:33	0°♒	
	921 Feb 26 j 20:09	0°♓	
morning set	921 Mar 12 j 01:43	16°♓24'03	
	921 Mar 23 j 01:30	0°♈	
	921 Apr 16 j 08:59	0°♉	
superior conj	921 Apr 19 j 02:24	3°♉21'23	-0°46'56
minimum elong	921 Apr 19 j 11:03	3°♉48'03	0°46'35
max. Earth dist.	921 Apr 20 j 19:52	5°♉29'00	1.73311 AU
asc. node	921 May 10 j 00:09	29°♉03'55	
	921 May 10 j 18:25	0°♊	
evening rise	921 May 26 j 00:29	18°♊43'21	
	921 Jun 04 j 05:12	0°♋	
	921 Jun 28 j 17:05	0°♌	
	921 Jul 23 j 06:44	0°♍	
	921 Aug 16 j 23:45	0°♎	
desc. node	921 Aug 29 j 13:21	15°♎09'21	
	921 Sep 10 j 22:24	0°♏	
	921 Oct 06 j 06:24	0°♐	
	921 Nov 01 j 09:23	0°♑	
evening max el	921 Nov 23 j 09:48	23°♑41'40	47°21'29
	921 Nov 29 j 17:23	0°♒	
asc. node	921 Dec 20 j 16:40	18°♒02'47	
greatest brilliancy	922 Jan 03 j 01:34	25°♒31'49	-4.9m
retrograde	922 Jan 13 j 11:33	27°♒37'10	
evening set	922 Jan 30 j 17:49	21°♒46'07	
min. Earth dist.	922 Feb 02 j 12:30	20°♒03'25	0.27558 AU
inferior conj	922 Feb 03 j 09:00	19°♒31'21	8°26'14

minimum elong	922 Feb 03 j 03:28	19°♒40'00	8°25'46
morning rise	922 Feb 06 j 13:23	17°♒33'20	
direct	922 Feb 24 j 01:06	11°♒37'53	
greatest brilliancy	922 Mar 05 j 00:39	13°♒08'37	-4.8m
	922 Mar 31 j 17:08	0°♓	
desc. node	922 Apr 11 j 06:09	9°♓29'33	
morning max el	922 Apr 14 j 08:57	12°♓28'25	46°04'46
	922 May 01 j 15:02	0°♈	
	922 May 28 j 23:57	0°♉	
	922 Jun 24 j 02:25	0°♊	
	922 Jul 19 j 11:13	0°♋	
asc. node	922 Aug 02 j 09:32	16°♋46'19	
	922 Aug 13 j 06:42	0°♌	
	922 Sep 06 j 15:41	0°♍	
	922 Sep 30 j 17:20	0°♎	
morning set	922 Oct 08 j 20:11	10°♎10'23	
	922 Oct 24 j 14:57	0°♏	
	922 Nov 17 j 11:05	0°♐	
superior conj	922 Nov 17 j 19:50	0°♐27'34	0°09'52
minimum elong	922 Nov 17 j 22:26	0°♐35'45	0°09'44
behind sun begin	922 Nov 17 j 01:03	29°♏28'26	
behind sun end	922 Nov 18 j 19:49	1°♐43'03	
max. Earth dist.	922 Nov 18 j 02:54	0°♐49'48	1.71062 AU
desc. node	922 Nov 21 j 23:02	5°♐39'49	
	922 Dec 11 j 07:16	0°♑	
evening rise	922 Dec 29 j 12:07	22°♑52'00	
	923 Jan 04 j 04:38	0°♒	
	923 Jan 28 j 04:38	0°♓	
	923 Feb 21 j 09:25	0°♈	
asc. node	923 Mar 15 j 02:26	26°♈35'39	
	923 Mar 17 j 21:41	0°♉	
	923 Apr 11 j 20:52	0°♊	
	923 May 07 j 12:22	0°♋	
	923 Jun 03 j 08:25	0°♌	
evening max el	923 Jun 28 j 05:20	25°♌29'25	45°34'03
	923 Jul 03 j 00:59	0°♍	
desc. node	923 Jul 04 j 15:38	1°♍27'53	
greatest brilliancy	923 Aug 06 j 13:53	23°♍36'53	-4.8m
retrograde	923 Aug 16 j 00:11	25°♍12'51	
evening set	923 Sep 02 j 23:12	19°♍12'48	
inferior conj	923 Sep 06 j 01:23	17°♍20'11	-8°40'42
minimum elong	923 Sep 06 j 04:46	17°♍14'59	8°40'33
min. Earth dist.	923 Sep 06 j 19:17	16°♍52'42	0.27956 AU
morning rise	923 Sep 09 j 10:08	15°♍17'31	
direct	923 Sep 27 j 06:20	9°♍17'34	
greatest brilliancy	923 Oct 08 j 07:44	11°♍34'34	-4.9m
asc. node	923 Oct 25 j 19:01	22°♍12'23	
	923 Nov 04 j 00:00	0°♎	
morning max el	923 Nov 16 j 22:46	12°♎30'54	46°50'43
	923 Dec 03 j 08:00	0°♏	
	923 Dec 29 j 11:32	0°♐	
	924 Jan 23 j 14:49	0°♑	
desc. node	924 Feb 14 j 08:30	26°♑20'04	
	924 Feb 17 j 08:50	0°♒	
	924 Mar 12 j 23:20	0°♓	
	924 Apr 06 j 12:43	0°♈	
	924 May 01 j 01:47	0°♉	
morning set	924 May 20 j 11:36	23°♉44'42	
	924 May 25 j 14:12	0°♊	
asc. node	924 Jun 06 j 11:53	14°♊35'36	
	924 Jun 19 j 00:58	0°♋	
max. Earth dist.	924 Jun 23 j 16:04	5°♋41'32	1.73490 AU
superior conj	924 Jun 25 j 21:07	8°♋24'40	0°43'49
minimum elong	924 Jun 25 j 13:28	8°♋01'08	0°43'30
	924 Jul 13 j 09:27	0°♌	
evening rise	924 Jul 31 j 16:24	22°♌36'01	
	924 Aug 06 j 15:53	0°♍	
	924 Aug 30 j 21:26	0°♎	
	924 Sep 24 j 03:24	0°♏	
desc. node	924 Sep 26 j 01:25	2°♏22'09	
	924 Oct 18 j 10:55	0°♐	
	924 Nov 11 j 21:33	0°♑	
	924 Dec 06 j 15:11	0°♒	
	925 Jan 01 j 01:25	0°♓	
asc. node	925 Jan 17 j 04:31	18°♓11'01	
	925 Jan 28 j 05:21	0°♈	
evening max el	925 Feb 03 j 00:49	5°♈56'37	46°30'17
	925 Mar 03 j 02:06	0°♉	
greatest brilliancy	925 Mar 14 j 05:18	5°♉51'47	-4.8m
retrograde	925 Mar 24 j 23:21	7°♉59'33	
evening set	925 Apr 10 j 05:34	2°♉50'25	
	925 Apr 14 j 20:23	30°℞♈	
inferior conj	925 Apr 15 j 07:10	29°♈42'57	5°10'04
minimum elong	925 Apr 15 j 16:22	29°♈28'23	5°07'54
min. Earth dist.	925 Apr 15 j 08:44	29°♈40'27	0.28773 AU
morning rise	925 Apr 21 j 03:31	26°♈09'31	
direct	925 May 06 j 18:10	21°♈28'18	
desc. node	925 May 08 j 17:51	21°♈32'51	
greatest brilliancy	925 May 16 j 17:01	23°♈16'10	-4.7m
	925 May 29 j 19:39	0°♉	
morning max el	925 Jun 24 j 12:00	21°♉13'38	45°44'04
	925 Jul 03 j 10:27	0°♊	
	925 Jul 31 j 11:50	0°♋	
	925 Aug 26 j 13:56	0°♌	
asc. node	925 Aug 29 j 21:28	3°♌54'47	
	925 Sep 20 j 14:43	0°♍	
	925 Oct 15 j 00:17	0°♎	
	925 Nov 08 j 01:26	0°♏	
	925 Dec 01 j 22:57	0°♐	
desc. node	925 Dec 19 j 10:45	21°♐59'16	
morning set	925 Dec 23 j 15:31	27°♐15'51	
	925 Dec 25 j 19:46	0°♑	
	926 Jan 18 j 17:29	0°♒	
superior conj	926 Feb 03 j 06:24	19°♒26'56	-1°22'02
minimum elong	926 Feb 02 j 23:52	19°♒06'29	1°21'56
max. Earth dist.	926 Feb 07 j 10:04	24°♒38'13	1.71787 AU
	926 Feb 11 j 17:09	0°♓	
	926 Mar 07 j 19:50	0°♈	
evening rise	926 Mar 15 j 03:18	9°♈03'29	
	926 Apr 01 j 02:33	0°♉	
asc. node	926 Apr 11 j 14:19	12°♉53'05	
	926 Apr 25 j 14:10	0°♊	
	926 May 20 j 07:26	0°♋	
	926 Jun 14 j 07:54	0°♌	
	926 Jul 09 j 19:10	0°♍	
desc. node	926 Aug 01 j 03:28	25°♍37'28	
	926 Aug 05 j 01:03	0°♎	
	926 Sep 01 j 21:53	0°♏	
evening max el	926 Sep 09 j 08:30	7°♏27'17	46°41'43
	926 Oct 05 j 15:37	0°♐	
greatest brilliancy	926 Oct 19 j 21:54	7°♐33'47	-4.9m
retrograde	926 Oct 29 j 08:27	9°♐14'14	
evening set	926 Nov 12 j 19:50	5°♐07'49	
inferior conj	926 Nov 18 j 21:39	1°♐35'32	-0°52'45
minimum elong	926 Nov 18 j 23:40	1°♐32'28	0°52'06
min. Earth dist.	926 Nov 18 j 23:34	1°♐32'37	0.26391 AU
	926 Nov 21 j 12:52	30°℞♏	
asc. node	926 Nov 22 j 06:45	29°♏33'36	
morning rise	926 Nov 25 j 03:14	27°♏57'45	
direct	926 Dec 09 j 05:56	23°♏58'49	
greatest brilliancy	926 Dec 19 j 12:07	25°♏58'10	-4.9m

	926 Dec 27 j 17:59	0°♐		
morning max el	927 Jan 28 j 15:24	26°♐50'19	46°47'59	
	927 Jan 31 j 18:13	0°♑		
	927 Feb 28 j 11:38	0°♒		
desc. node	927 Mar 13 j 20:28	15°♒13'31		
	927 Mar 26 j 14:30	0°♓		
	927 Apr 21 j 01:53	0°♈		
	927 May 16 j 05:17	0°♉		
	927 Jun 10 j 03:02	0°♊		
asc. node	927 Jul 04 j 23:45	0°♋13'55		
	927 Jul 04 j 19:11	0°♋		
morning set	927 Jul 28 j 01:34	28°♋33'52		
	927 Jul 29 j 05:29	0°♌		
	927 Aug 22 j 10:26	0°♍		
max. Earth dist.	927 Aug 30 j 07:16	9°♍47'58	1.72223 AU	
superior conj	927 Sep 02 j 20:26	14°♍13'30	1°24'10	
minimum elong	927 Sep 02 j 22:39	14°♍20'25	1°24'10	
	927 Sep 15 j 11:37	0°♎		
	927 Oct 09 j 11:00	0°♏		
evening rise	927 Oct 11 j 08:13	2°♏21'32		
desc. node	927 Oct 24 j 13:15	18°♏53'52		
	927 Nov 02 j 10:04	0°♐		
	927 Nov 26 j 09:50	0°♑		
	927 Dec 20 j 11:42	0°♒		
	928 Jan 13 j 18:30	0°♓		
	928 Feb 07 j 11:30	0°♈		
asc. node	928 Feb 14 j 16:30	8°♈35'53		
	928 Mar 03 j 23:45	0°♉		
	928 Mar 31 j 02:25	0°♊		
evening max el	928 Apr 14 j 17:50	14°♊49'48	45°28'32	
	928 May 01 j 19:48	0°♋		
greatest brilliancy	928 May 22 j 12:48	12°♋36'56	-4.7m	
retrograde	928 Jun 02 j 09:45	14°♋44'43		
desc. node	928 Jun 05 j 05:47	14°♋35'13		
evening set	928 Jun 17 j 16:53	10°♋15'32		
inferior conj	928 Jun 23 j 21:32	6°♋33'50	-4°11'46	
minimum elong	928 Jun 23 j 13:14	6°♋46'44	4°09'38	
min. Earth dist.	928 Jun 23 j 22:17	6°♋32'39	0.28961 AU	
morning rise	928 Jun 29 j 09:21	3°♋14'29		
	928 Jul 06 j 04:25	30°℞♊		
direct	928 Jul 15 j 12:46	28°♊16'05		
	928 Jul 25 j 07:55	0°♋		
greatest brilliancy	928 Jul 26 j 04:42	0°♋18'16	-4.7m	
morning max el	928 Sep 02 j 21:17	28°♋53'24	46°09'03	
	928 Sep 04 j 00:27	0°♌		
asc. node	928 Sep 26 j 09:22	23°♌32'46		
	928 Oct 02 j 03:56	0°♍		
	928 Oct 27 j 21:45	0°♎		
	928 Nov 21 j 15:19	0°♏		
	928 Dec 15 j 22:14	0°♐		
	929 Jan 09 j 01:16	0°♑		
desc. node	929 Jan 15 j 22:42	8°♑35'01		
	929 Feb 02 j 03:41	0°♒		
	929 Feb 26 j 07:01	0°♓		
morning set	929 Mar 09 j 16:00	14°♓06'15		
	929 Mar 22 j 12:11	0°♈		
	929 Apr 15 j 19:36	0°♉		
superior conj	929 Apr 16 j 19:07	1°♉12'26	-0°49'40	
minimum elong	929 Apr 17 j 04:07	1°♉40'08	0°49'19	
max. Earth dist.	929 Apr 18 j 15:32	3°♉29'13	1.73281 AU	
asc. node	929 May 09 j 02:07	28°♉37'21		
	929 May 10 j 05:01	0°♊		
evening rise	929 May 23 j 19:06	16°♊40'41		
	929 Jun 03 j 15:53	0°♋		
	929 Jun 28 j 03:59	0°♌		
	929 Jul 22 j 18:02	0°♍		
	929 Aug 16 j 11:40	0°♎		
desc. node	929 Aug 28 j 15:30	14°♎38'45		
	929 Sep 10 j 11:16	0°♏		
	929 Oct 05 j 20:47	0°♐		
	929 Nov 01 j 02:40	0°♑		
evening max el	929 Nov 21 j 01:25	21°♑22'06	47°21'52	
	929 Nov 29 j 19:05	0°♒		
asc. node	929 Dec 19 j 18:48	16°♒42'01		
greatest brilliancy	929 Dec 31 j 15:41	23°♒08'36	-4.9m	
retrograde	930 Jan 11 j 02:43	25°♒14'37		
evening set	930 Jan 28 j 04:45	19°♒28'48		
min. Earth dist.	930 Jan 31 j 01:31	17°♒43'08	0.27491 AU	
inferior conj	930 Jan 31 j 22:59	17°♒09'35	8°20'07	
minimum elong	930 Jan 31 j 16:44	17°♒19'21	8°19'30	
morning rise	930 Feb 04 j 05:02	15°♒09'20		
direct	930 Feb 21 j 14:55	9°♒17'19		
greatest brilliancy	930 Mar 02 j 13:03	10°♒47'23	-4.8m	
	930 Mar 31 j 22:58	0°♓		
desc. node	930 Apr 10 j 08:08	8°♓38'01		
morning max el	930 Apr 12 j 00:08	10°♓14'16	46°06'09	
	930 May 01 j 08:29	0°♈		
	930 May 28 j 13:55	0°♉		
	930 Jun 23 j 14:49	0°♊		
	930 Jul 18 j 22:47	0°♋		
asc. node	930 Aug 01 j 11:40	16°♋18'34		
	930 Aug 12 j 17:49	0°♌		
	930 Sep 06 j 02:35	0°♍		
	930 Sep 30 j 04:10	0°♎		
morning set	930 Oct 06 j 09:50	7°♎48'49		
	930 Oct 24 j 01:48	0°♏		
superior conj	930 Nov 15 j 06:01	27°♏54'19	0°13'47	
minimum elong	930 Nov 15 j 09:37	28°♏05'37	0°13'37	
behind sun begin	930 Nov 14 j 18:57	27°♏19'28		
behind sun end	930 Nov 16 j 00:17	28°♏51'47		
max. Earth dist.	930 Nov 15 j 09:48	28°♏06'13	1.71072 AU	
	930 Nov 16 j 21:58	0°♐		
desc. node	930 Nov 21 j 01:00	5°♐11'42		
	930 Dec 10 j 18:12	0°♑		
evening rise	930 Dec 26 j 21:54	20°♑17'42		
	931 Jan 03 j 15:37	0°♒		
	931 Jan 27 j 15:41	0°♓		
	931 Feb 20 j 20:35	0°♈		
asc. node	931 Mar 14 j 04:29	26°♈07'12		
	931 Mar 17 j 09:09	0°♉		
	931 Apr 11 j 08:56	0°♊		
	931 May 07 j 01:44	0°♋		
	931 Jun 03 j 00:44	0°♌		
evening max el	931 Jun 25 j 20:13	23°♌16'08	45°32'21	
	931 Jul 03 j 02:45	0°♍		
desc. node	931 Jul 03 j 17:45	0°♍33'26		
greatest brilliancy	931 Aug 04 j 02:52	21°♍20'03	-4.8m	
retrograde	931 Aug 13 j 13:28	22°♍56'07		
evening set	931 Aug 31 j 13:45	16°♍55'24		
inferior conj	931 Sep 03 j 15:41	15°♍02'54	-8°43'09	
minimum elong	931 Sep 03 j 18:12	14°♍59'02	8°43'04	
min. Earth dist.	931 Sep 04 j 09:02	14°♍36'11	0.28017 AU	
morning rise	931 Sep 06 j 22:27	13°♍02'51		
direct	931 Sep 24 j 21:20	6°♍59'32		
greatest brilliancy	931 Oct 05 j 22:21	9°♍15'33	-4.9m	
asc. node	931 Oct 24 j 20:57	21°♍02'25		
	931 Nov 04 j 03:57	0°♎		
morning max el	931 Nov 14 j 12:15	10°♎06'50	46°49'42	
	931 Dec 03 j 01:34	0°♏		
	931 Dec 29 j 02:00	0°♐		
	932 Jan 23 j 03:49	0°♑		

desc. node	932 Feb 13 j 10:35	25°♉49'11	
	932 Feb 16 j 20:58	0°♒	
	932 Mar 12 j 10:53	0°♓	
	932 Apr 05 j 23:50	0°♈	
	932 Apr 30 j 12:35	0°♉	
morning set	932 May 18 j 05:57	21°♉41'27	
	932 May 25 j 00:47	0°♊	
asc. node	932 Jun 05 j 13:59	14°♊09'43	
	932 Jun 18 j 11:29	0°♋	
max. Earth dist.	932 Jun 21 j 12:09	3°♋43'22	1.73512 AU
superior conj	932 Jun 23 j 15:56	6°♋22'36	0°41'09
minimum elong	932 Jun 23 j 08:37	6°♋00'04	0°40'49
	932 Jul 12 j 20:01	0°♌	
evening rise	932 Jul 29 j 10:41	20°♌31'06	
	932 Aug 06 j 02:39	0°♍	
	932 Aug 30 j 08:27	0°♎	
	932 Sep 23 j 14:46	0°♏	
desc. node	932 Sep 25 j 03:23	1°♏53'00	
	932 Oct 17 j 22:44	0°♐	
	932 Nov 11 j 09:59	0°♑	
	932 Dec 06 j 04:36	0°♒	
	932 Dec 31 j 16:41	0°♓	
asc. node	933 Jan 16 j 06:39	17°♓29'19	
	933 Jan 28 j 01:23	0°♈	
evening max el	933 Jan 31 j 15:12	3°♈38'10	46°32'48
	933 Mar 04 j 07:34	0°♉	
greatest brilliancy	933 Mar 11 j 23:05	3°♉42'14	-4.8m
retrograde	933 Mar 22 j 15:22	5°♉48'50	
evening set	933 Apr 08 j 00:33	0°♉36'04	
	933 Apr 09 j 00:51	30°℞♈	
inferior conj	933 Apr 12 j 23:29	27°♈32'29	5°26'02
minimum elong	933 Apr 13 j 08:52	27°♈17'37	5°23'54
min. Earth dist.	933 Apr 13 j 01:09	27°♈29'51	0.28749 AU
morning rise	933 Apr 18 j 17:28	24°♈02'00	
direct	933 May 04 j 09:32	19°♈18'14	
desc. node	933 May 07 j 19:51	19°♈31'37	
greatest brilliancy	933 May 14 j 08:24	21°♈05'40	-4.7m
	933 May 30 j 15:36	0°♉	
morning max el	933 Jun 22 j 02:56	19°♉01'52	45°44'06
	933 Jul 03 j 05:23	0°♊	
	933 Jul 31 j 02:15	0°♋	
	933 Aug 26 j 02:37	0°♌	
asc. node	933 Aug 28 j 23:32	3°♌23'46	
	933 Sep 20 j 02:37	0°♍	
	933 Oct 14 j 11:47	0°♎	
	933 Nov 07 j 12:44	0°♏	
	933 Dec 01 j 10:07	0°♐	
desc. node	933 Dec 18 j 12:55	21°♐31'09	
morning set	933 Dec 21 j 01:00	24°♐39'59	
	933 Dec 25 j 06:51	0°♑	
	934 Jan 18 j 04:29	0°♒	
superior conj	934 Jan 31 j 17:34	16°♒57'38	-1°20'50
minimum elong	934 Jan 31 j 10:09	16°♒34'26	1°20'42
max. Earth dist.	934 Feb 04 j 18:31	22°♒00'36	1.71732 AU
	934 Feb 11 j 04:05	0°♓	
	934 Mar 07 j 06:43	0°♈	
evening rise	934 Mar 12 j 16:48	6°♈42'59	
	934 Mar 31 j 13:29	0°♉	
asc. node	934 Apr 10 j 16:19	12°♉25'28	
	934 Apr 25 j 01:16	0°♊	
	934 May 19 j 18:53	0°♋	
	934 Jun 13 j 20:00	0°♌	
	934 Jul 09 j 08:27	0°♍	
desc. node	934 Jul 31 j 05:35	25°♍01'01	
	934 Aug 04 j 16:38	0°♎	
	934 Sep 01 j 19:07	0°♏	
evening max el	934 Sep 06 j 20:42	5°♏01'56	46°39'06
	934 Oct 06 j 22:49	0°♐	
greatest brilliancy	934 Oct 17 j 11:00	5°♐05'44	-4.9m
retrograde	934 Oct 26 j 20:12	6°♐45'18	
evening set	934 Nov 10 j 09:14	2°♐36'36	
	934 Nov 14 j 22:28	30°℞♏	
inferior conj	934 Nov 16 j 09:42	29°♏06'38	-1°17'17
minimum elong	934 Nov 16 j 12:39	29°♏02'09	1°16'20
min. Earth dist.	934 Nov 16 j 13:25	29°♏00'59	0.26413 AU
asc. node	934 Nov 21 j 08:56	26°♏10'22	
morning rise	934 Nov 22 j 15:43	25°♏28'29	
direct	934 Dec 06 j 18:06	21°♏29'05	
greatest brilliancy	934 Dec 17 j 02:40	23°♏30'56	-4.9m
	934 Dec 29 j 04:08	0°♐	
morning max el	935 Jan 26 j 05:05	24°♐25'39	46°49'09
	935 Jan 31 j 15:57	0°♑	
	935 Feb 28 j 03:41	0°♒	
desc. node	935 Mar 12 j 22:29	14°♒37'03	
	935 Mar 26 j 04:12	0°♓	
	935 Apr 20 j 14:20	0°♈	
	935 May 15 j 16:59	0°♉	
	935 Jun 09 j 14:15	0°♊	
asc. node	935 Jul 04 j 01:53	29°♊46'59	
	935 Jul 04 j 06:09	0°♋	
morning set	935 Jul 25 j 19:13	26°♋26'59	
	935 Jul 28 j 16:17	0°♌	
	935 Aug 21 j 21:13	0°♍	
max. Earth dist.	935 Aug 28 j 01:27	7°♍41'22	1.72275 AU
superior conj	935 Aug 31 j 12:55	12°♍01'31	1°24'29
minimum elong	935 Aug 31 j 14:24	12°♍06'06	1°24'29
	935 Sep 14 j 22:29	0°♎	
evening rise	935 Oct 08 j 21:19	29°♎57'46	
	935 Oct 08 j 22:01	0°♏	
desc. node	935 Oct 23 j 15:18	18°♏25'20	
	935 Nov 01 j 21:19	0°♐	
	935 Nov 25 j 21:20	0°♑	
	935 Dec 19 j 23:27	0°♒	
	936 Jan 13 j 06:39	0°♓	
	936 Feb 07 j 00:23	0°♈	
asc. node	936 Feb 13 j 18:32	8°♈02'48	
	936 Mar 03 j 14:09	0°♉	
	936 Mar 30 j 20:33	0°♊	
evening max el	936 Apr 12 j 10:10	12°♊39'56	45°29'55
	936 May 02 j 06:58	0°♋	
greatest brilliancy	936 May 20 j 03:51	10°♋26'46	-4.7m
retrograde	936 May 31 j 02:34	12°♋35'54	
desc. node	936 Jun 04 j 07:58	12°♋14'41	
evening set	936 Jun 15 j 07:48	8°♋08'19	
inferior conj	936 Jun 21 j 13:48	4°♋24'28	-3°54'15
minimum elong	936 Jun 21 j 05:57	4°♋36'41	3°52'11
min. Earth dist.	936 Jun 21 j 14:07	4°♋23'59	0.28966 AU
morning rise	936 Jun 27 j 03:57	1°♋02'03	
	936 Jun 29 j 01:36	30°℞♊	
direct	936 Jul 13 j 05:35	26°♊06'40	
greatest brilliancy	936 Jul 23 j 20:17	28°♊08'14	-4.7m
	936 Jul 28 j 05:35	0°♋	
morning max el	936 Aug 31 j 13:51	26°♋42'58	46°07'43
	936 Sep 03 j 21:40	0°♌	
asc. node	936 Sep 25 j 11:17	22°♌53'05	
	936 Oct 01 j 19:23	0°♍	
	936 Oct 27 j 11:11	0°♎	
	936 Nov 21 j 03:49	0°♏	
	936 Dec 15 j 10:15	0°♐	
	937 Jan 08 j 12:58	0°♑	
desc. node	937 Jan 15 j 00:47	8°♑05'17	

	937 Feb 01 j 15:07	0°♒	
	937 Feb 25 j 18:15	0°♓	
morning set	937 Mar 07 j 05:36	11°♓45'03	
	937 Mar 21 j 23:15	0°♈	
superior conj	937 Apr 14 j 11:14	29°♈00'29	-0°52'22
minimum elong	937 Apr 14 j 20:31	29°♈29'04	0°52'00
	937 Apr 15 j 06:33	0°♉	
max. Earth dist.	937 Apr 16 j 12:20	1°♉31'43	1.73244 AU
asc. node	937 May 08 j 04:13	28°♉10'17	
	937 May 09 j 15:57	0°♊	
evening rise	937 May 21 j 13:25	14°♊36'04	
	937 Jun 03 j 02:55	0°♋	
	937 Jun 27 j 15:14	0°♌	
	937 Jul 22 j 05:40	0°♍	
	937 Aug 15 j 23:55	0°♎	
desc. node	937 Aug 27 j 17:29	14°♎06'50	
	937 Sep 10 j 00:27	0°♏	
	937 Oct 05 j 11:30	0°♐	
	937 Oct 31 j 20:28	0°♑	
evening max el	937 Nov 18 j 17:16	19°♑02'38	47°21'55
	937 Nov 29 j 22:30	0°♒	
asc. node	937 Dec 18 j 20:53	15°♒17'38	
greatest brilliancy	937 Dec 29 j 05:52	20°♒44'28	-4.9m
retrograde	938 Jan 08 j 17:29	22°♒50'32	
evening set	938 Jan 25 j 15:26	17°♒10'28	
min. Earth dist.	938 Jan 28 j 14:39	15°♒21'07	0.27430 AU
inferior conj	938 Jan 29 j 12:54	14°♒46'20	8°12'57
minimum elong	938 Jan 29 j 06:00	14°♒57'08	8°12'11
morning rise	938 Feb 01 j 20:55	12°♒43'15	
direct	938 Feb 19 j 04:55	6°♒55'19	
greatest brilliancy	938 Feb 28 j 01:42	8°♒24'34	-4.8m
	938 Apr 01 j 03:33	0°♓	
desc. node	938 Apr 09 j 10:10	7°♓45'54	
morning max el	938 Apr 09 j 14:36	7°♓56'37	46°07'26
	938 May 01 j 02:08	0°♈	
	938 May 28 j 04:14	0°♉	
	938 Jun 23 j 03:35	0°♊	
	938 Jul 18 j 10:42	0°♋	
asc. node	938 Jul 31 j 13:38	15°♋49'15	
	938 Aug 12 j 05:17	0°♌	
	938 Sep 05 j 13:50	0°♍	
	938 Sep 29 j 15:20	0°♎	
morning set	938 Oct 03 j 23:54	5°♎27'31	
	938 Oct 23 j 12:57	0°♏	
superior conj	938 Nov 12 j 16:54	25°♏22'25	0°17'37
minimum elong	938 Nov 12 j 21:26	25°♏36'41	0°17'24
max. Earth dist.	938 Nov 12 j 14:47	25°♏15'45	1.71081 AU
	938 Nov 16 j 09:07	0°♐	
desc. node	938 Nov 20 j 03:13	4°♐43'29	
	938 Dec 10 j 05:23	0°♑	
evening rise	938 Dec 24 j 08:06	17°♑43'47	
	939 Jan 03 j 02:52	0°♒	
	939 Jan 27 j 03:03	0°♓	
	939 Feb 20 j 08:09	0°♈	
asc. node	939 Mar 13 j 06:27	25°♈37'09	
	939 Mar 16 j 21:05	0°♉	
	939 Apr 10 j 21:35	0°♊	
	939 May 06 j 15:47	0°♋	
	939 Jun 02 j 17:57	0°♌	
evening max el	939 Jun 23 j 10:07	20°♌59'04	45°30'53
desc. node	939 Jul 02 j 19:49	29°♌36'14	
	939 Jul 03 j 06:44	0°♍	
greatest brilliancy	939 Aug 01 j 16:07	19°♍02'20	-4.8m
retrograde	939 Aug 11 j 02:34	20°♍38'35	
evening set	939 Aug 29 j 03:59	14°♍37'31	
inferior conj	939 Sep 01 j 06:03	12°♍44'46	-8°44'52
minimum elong	939 Sep 01 j 07:41	12°♍42'14	8°44'49
min. Earth dist.	939 Sep 01 j 23:04	12°♍18'30	0.28074 AU
morning rise	939 Sep 04 j 11:10	10°♍46'56	
direct	939 Sep 22 j 11:54	4°♍40'26	
greatest brilliancy	939 Oct 03 j 13:33	6°♍56'20	-4.9m
asc. node	939 Oct 23 j 23:08	19°♍53'45	
	939 Nov 04 j 06:43	0°♎	
morning max el	939 Nov 12 j 01:21	7°♎40'47	46°48'51
	939 Dec 02 j 19:05	0°♏	
	939 Dec 28 j 16:35	0°♐	
	940 Jan 22 j 16:58	0°♑	
desc. node	940 Feb 12 j 12:36	25°♑17'27	
	940 Feb 16 j 09:18	0°♒	
	940 Mar 11 j 22:41	0°♓	
	940 Apr 05 j 11:16	0°♈	
	940 Apr 29 j 23:46	0°♉	
morning set	940 May 15 j 23:54	19°♉35'41	
	940 May 24 j 11:47	0°♊	
asc. node	940 Jun 04 j 16:08	13°♊42'37	
	940 Jun 17 j 22:25	0°♋	
max. Earth dist.	940 Jun 19 j 07:18	1°♋41'02	1.73533 AU
superior conj	940 Jun 21 j 10:24	4°♋18'09	0°38'23
minimum elong	940 Jun 21 j 03:26	3°♋56'43	0°38'04
	940 Jul 12 j 07:00	0°♌	
evening rise	940 Jul 27 j 04:45	18°♌24'25	
	940 Aug 05 j 13:47	0°♍	
	940 Aug 29 j 19:51	0°♎	
	940 Sep 23 j 02:30	0°♏	
desc. node	940 Sep 24 j 05:26	1°♏23'04	
	940 Oct 17 j 10:56	0°♐	
	940 Nov 10 j 22:48	0°♑	
	940 Dec 05 j 18:23	0°♒	
	940 Dec 31 j 08:23	0°♓	
asc. node	941 Jan 15 j 08:41	16°♓46'11	
	941 Jan 27 j 22:18	0°♈	
evening max el	941 Jan 29 j 05:02	1°♈17'39	46°35'22
	941 Mar 06 j 03:25	0°♉	
greatest brilliancy	941 Mar 09 j 16:15	1°♉31'15	-4.8m
retrograde	941 Mar 20 j 07:26	3°♉37'32	
	941 Apr 02 j 19:32	30°℞♈	
evening set	941 Apr 05 j 19:33	28°♈20'38	
inferior conj	941 Apr 10 j 15:49	25°♈21'11	5°41'30
minimum elong	941 Apr 11 j 01:21	25°♈06'05	5°39'23
min. Earth dist.	941 Apr 10 j 17:29	25°♈18'32	0.28731 AU
morning rise	941 Apr 16 j 07:21	21°♈54'00	
direct	941 May 02 j 00:49	17°♈07'03	
desc. node	941 May 06 j 22:04	17°♈33'57	
greatest brilliancy	941 May 12 j 00:13	18°♈54'43	-4.7m
	941 May 31 j 06:57	0°♉	
morning max el	941 Jun 19 j 18:24	16°♉50'10	45°44'05
	941 Jul 03 j 00:17	0°♊	
	941 Jul 30 j 16:57	0°♋	
	941 Aug 25 j 15:36	0°♌	
asc. node	941 Aug 28 j 01:35	2°♌51'41	
	941 Sep 19 j 14:46	0°♍	
	941 Oct 13 j 23:30	0°♎	
	941 Nov 07 j 00:13	0°♏	
	941 Nov 30 j 21:29	0°♐	
desc. node	941 Dec 17 j 14:57	21°♐01'59	
morning set	941 Dec 18 j 10:33	22°♐03'36	
	941 Dec 24 j 18:08	0°♑	
	942 Jan 17 j 15:41	0°♒	
superior conj	942 Jan 29 j 04:46	14°♒27'44	-1°19'27
minimum elong	942 Jan 28 j 20:31	14°♒01'56	1°19'18

max. Earth dist.	942 Feb 02 j 01:29	19°♒17'39	1.71678 AU
	942 Feb 10 j 15:11	0°♓	
	942 Mar 06 j 17:46	0°♈	
evening rise	942 Mar 10 j 06:26	4°♈22'22	
	942 Mar 31 j 00:35	0°♉	
asc. node	942 Apr 09 j 18:29	11°♉57'58	
	942 Apr 24 j 12:34	0°♊	
	942 May 19 j 06:35	0°♋	
	942 Jun 13 j 08:25	0°♌	
	942 Jul 08 j 22:07	0°♍	
desc. node	942 Jul 30 j 07:34	24°♍22'58	
	942 Aug 04 j 08:47	0°♎	
	942 Sep 01 j 17:29	0°♏	
evening max el	942 Sep 04 j 09:38	2°♏37'55	46°36'39
	942 Oct 08 j 20:46	0°♐	
greatest brilliancy	942 Oct 14 j 23:29	2°♐36'42	-4.9m
retrograde	942 Oct 24 j 08:27	4°♐16'03	
evening set	942 Nov 07 j 22:51	0°♐04'50	
	942 Nov 08 j 02:28	30°℞♏	
inferior conj	942 Nov 13 j 21:44	26°♏37'14	-1°41'41
minimum elong	942 Nov 14 j 01:35	26°♏31'23	1°40'26
min. Earth dist.	942 Nov 14 j 02:51	26°♏29'29	0.26435 AU
morning rise	942 Nov 20 j 03:58	22°♏59'13	
asc. node	942 Nov 20 j 11:02	22°♏49'56	
direct	942 Dec 04 j 06:51	18°♏59'06	
greatest brilliancy	942 Dec 14 j 16:37	21°♏02'45	-4.9m
	942 Dec 30 j 04:44	0°♐	
morning max el	943 Jan 23 j 19:27	22°♐02'25	46°50'12
	943 Jan 31 j 13:00	0°♑	
	943 Feb 27 j 19:32	0°♒	
desc. node	943 Mar 12 j 00:31	14°♒00'45	
	943 Mar 25 j 17:50	0°♓	
	943 Apr 20 j 02:45	0°♈	
	943 May 15 j 04:41	0°♉	
	943 Jun 09 j 01:31	0°♊	
asc. node	943 Jul 03 j 03:52	29°♊19'22	
	943 Jul 03 j 17:10	0°♋	
morning set	943 Jul 23 j 12:48	24°♋19'37	
	943 Jul 28 j 03:13	0°♌	
	943 Aug 21 j 08:08	0°♍	
max. Earth dist.	943 Aug 25 j 17:37	5°♍28'12	1.72328 AU
superior conj	943 Aug 29 j 05:14	9°♍48'36	1°24'40
minimum elong	943 Aug 29 j 05:56	9°♍50'48	1°24'39
	943 Sep 14 j 09:29	0°♎	
evening rise	943 Oct 06 j 10:08	27°♎32'52	
	943 Oct 08 j 09:10	0°♏	
desc. node	943 Oct 22 j 17:27	17°♏56'56	
	943 Nov 01 j 08:38	0°♐	
	943 Nov 25 j 08:51	0°♑	
	943 Dec 19 j 11:15	0°♒	
	944 Jan 12 j 18:52	0°♓	
	944 Feb 06 j 13:22	0°♈	
asc. node	944 Feb 12 j 20:33	7°♈29'33	
	944 Mar 03 j 04:41	0°♉	
	944 Mar 30 j 15:05	0°♊	
evening max el	944 Apr 10 j 02:58	10°♊31'24	45°31'21
	944 May 02 j 21:43	0°♋	
greatest brilliancy	944 May 17 j 19:30	8°♋17'54	-4.7m
retrograde	944 May 28 j 19:18	10°♋27'35	
desc. node	944 Jun 03 j 09:58	9°♋50'07	
evening set	944 Jun 12 j 23:04	6°♋01'42	
inferior conj	944 Jun 19 j 06:11	2°♋15'48	-3°36'25
minimum elong	944 Jun 18 j 22:49	2°♋27'16	3°34'27
min. Earth dist.	944 Jun 19 j 06:04	2°♋15'57	0.28971 AU
	944 Jun 22 j 22:31	30°℞♊	
morning rise	944 Jun 24 j 22:32	28°♊50'16	
direct	944 Jul 10 j 22:39	23°♊58'07	
greatest brilliancy	944 Jul 21 j 11:36	25°♊58'22	-4.7m
	944 Jul 29 j 23:09	0°♋	
morning max el	944 Aug 29 j 05:47	24°♋31'12	46°06'07
	944 Sep 03 j 18:09	0°♌	
asc. node	944 Sep 24 j 13:29	22°♌14'25	
	944 Oct 01 j 10:40	0°♍	
	944 Oct 27 j 00:34	0°♎	
	944 Nov 20 j 16:18	0°♏	
	944 Dec 14 j 22:12	0°♐	
	945 Jan 08 j 00:32	0°♑	
desc. node	945 Jan 14 j 02:47	7°♑35'43	
	945 Feb 01 j 02:24	0°♒	
	945 Feb 25 j 05:19	0°♓	
morning set	945 Mar 04 j 19:10	9°♓24'09	
	945 Mar 21 j 10:10	0°♈	
superior conj	945 Apr 12 j 03:27	26°♈49'13	-0°54'59
minimum elong	945 Apr 12 j 12:57	27°♈18'28	0°54'37
max. Earth dist.	945 Apr 14 j 09:59	29°♈37'15	1.73203 AU
	945 Apr 14 j 17:22	0°♉	
asc. node	945 May 07 j 06:22	27°♉43'47	
	945 May 09 j 02:43	0°♊	
evening rise	945 May 19 j 07:51	12°♊32'19	
	945 Jun 02 j 13:45	0°♋	
	945 Jun 27 j 02:17	0°♌	
	945 Jul 21 j 17:09	0°♍	
	945 Aug 15 j 12:05	0°♎	
desc. node	945 Aug 26 j 19:34	13°♎35'28	
	945 Sep 09 j 13:37	0°♏	
	945 Oct 05 j 02:20	0°♐	
	945 Oct 31 j 14:40	0°♑	
evening max el	945 Nov 16 j 08:29	16°♑41'27	47°21'55
	945 Nov 30 j 03:39	0°♒	
asc. node	945 Dec 17 j 22:53	13°♒50'16	
greatest brilliancy	945 Dec 26 j 20:36	18°♒20'57	-4.9m
retrograde	946 Jan 06 j 07:46	20°♒26'14	
evening set	946 Jan 23 j 01:53	14°♒52'31	
min. Earth dist.	946 Jan 26 j 04:03	12°♒58'42	0.27363 AU
inferior conj	946 Jan 27 j 02:43	12°♒23'15	8°04'52
minimum elong	946 Jan 26 j 19:11	12°♒35'02	8°03'57
morning rise	946 Jan 30 j 12:52	10°♒16'55	
direct	946 Feb 16 j 18:22	4°♒33'35	
greatest brilliancy	946 Feb 25 j 14:40	6°♒02'20	-4.8m
	946 Apr 01 j 06:09	0°♓	
morning max el	946 Apr 07 j 04:00	5°♓36'58	46°08'48
desc. node	946 Apr 08 j 12:23	6°♓55'58	
	946 Apr 30 j 19:06	0°♈	
	946 May 27 j 18:06	0°♉	
	946 Jun 22 j 15:57	0°♊	
	946 Jul 17 j 22:16	0°♋	
asc. node	946 Jul 30 j 15:45	15°♋21'21	
	946 Aug 11 j 16:25	0°♌	
	946 Sep 05 j 00:46	0°♍	
	946 Sep 29 j 02:14	0°♎	
morning set	946 Oct 01 j 14:02	3°♎07'15	
	946 Oct 22 j 23:53	0°♏	
max. Earth dist.	946 Nov 09 j 16:58	22°♏17'07	1.71101 AU
superior conj	946 Nov 10 j 03:37	22°♏50'37	0°21'26
minimum elong	946 Nov 10 j 09:03	23°♏07'42	0°21'10
	946 Nov 15 j 20:06	0°♐	
desc. node	946 Nov 19 j 05:14	4°♐15'15	
	946 Dec 09 j 16:25	0°♑	
evening rise	946 Dec 21 j 17:44	15°♑08'36	
	947 Jan 02 j 13:57	0°♒	
	947 Jan 26 j 14:13	0°♓	

	947 Feb 19 j 19:29	0°♈	
asc. node	947 Mar 12 j 08:39	25°♈08'34	
	947 Mar 16 j 08:46	0°♉	
	947 Apr 10 j 09:58	0°♊	
	947 May 06 j 05:36	0°♋	
	947 Jun 02 j 11:06	0°♌	
evening max el	947 Jun 20 j 23:36	18°♌42'21	45°29'37
desc. node	947 Jul 01 j 21:51	28°♌39'03	
	947 Jul 03 j 11:55	0°♍	
greatest brilliancy	947 Jul 30 j 05:24	16°♍46'34	-4.8m
retrograde	947 Aug 08 j 16:16	18°♍23'35	
evening set	947 Aug 26 j 18:02	12°♍22'32	
inferior conj	947 Aug 29 j 20:42	10°♍28'57	-8°45'31
minimum elong	947 Aug 29 j 21:29	10°♍27'45	8°45'30
min. Earth dist.	947 Aug 30 j 13:21	10°♍03'17	0.28133 AU
morning rise	947 Sep 02 j 00:42	8°♍32'45	
direct	947 Sep 20 j 02:34	2°♍23'35	
greatest brilliancy	947 Oct 01 j 05:15	4°♍39'55	-4.8m
asc. node	947 Oct 23 j 01:13	18°♍48'17	
	947 Nov 04 j 07:31	0°♎	
morning max el	947 Nov 09 j 14:57	5°♎17'25	46°47'45
	947 Dec 02 j 11:53	0°♏	
	947 Dec 28 j 06:45	0°♐	
	948 Jan 22 j 05:51	0°♑	
desc. node	948 Feb 11 j 14:42	24°♑46'40	
	948 Feb 15 j 21:23	0°♒	
	948 Mar 11 j 10:12	0°♓	
	948 Apr 04 j 22:23	0°♈	
	948 Apr 29 j 10:34	0°♉	
morning set	948 May 13 j 17:47	17°♉30'41	
	948 May 23 j 22:25	0°♊	
asc. node	948 Jun 03 j 18:05	13°♊16'04	
max. Earth dist.	948 Jun 17 j 03:42	29°♊43'43	1.73553 AU
	948 Jun 17 j 09:00	0°♋	
superior conj	948 Jun 19 j 05:00	2°♋15'15	0°35'34
minimum elong	948 Jun 18 j 22:25	1°♋55'01	0°35'17
	948 Jul 11 j 17:38	0°♌	
evening rise	948 Jul 24 j 23:13	16°♌20'14	
	948 Aug 05 j 00:32	0°♍	
	948 Aug 29 j 06:50	0°♎	
	948 Sep 22 j 13:50	0°♏	
desc. node	948 Sep 23 j 07:37	0°♏54'50	
	948 Oct 16 j 22:44	0°♐	
	948 Nov 10 j 11:18	0°♑	
	948 Dec 05 j 07:58	0°♒	
	948 Dec 31 j 00:04	0°♓	
asc. node	949 Jan 14 j 10:44	16°♓03'05	
evening max el	949 Jan 26 j 19:13	28°♓58'22	46°37'54
	949 Jan 27 j 19:47	0°♈	
greatest brilliancy	949 Mar 07 j 08:48	29°♈19'33	-4.8m
	949 Mar 09 j 07:05	0°♉	
retrograde	949 Mar 17 j 23:46	1°♉26'17	
	949 Mar 26 j 09:25	30°℞♈	
evening set	949 Apr 03 j 14:23	26°♈05'00	
inferior conj	949 Apr 08 j 07:55	23°♈09'48	5°56'29
minimum elong	949 Apr 08 j 17:33	22°♈54'34	5°54'26
min. Earth dist.	949 Apr 08 j 09:18	23°♈07'37	0.28709 AU
morning rise	949 Apr 13 j 20:54	19°♈46'28	
direct	949 Apr 29 j 16:04	14°♈55'52	
desc. node	949 May 06 j 00:02	15°♈40'43	
greatest brilliancy	949 May 09 j 15:28	16°♈43'44	-4.7m
	949 May 31 j 18:02	0°♉	
morning max el	949 Jun 17 j 10:29	14°♉40'58	45°44'13
	949 Jul 02 j 18:17	0°♊	
	949 Jul 30 j 07:04	0°♋	
	949 Aug 25 j 04:07	0°♌	
asc. node	949 Aug 27 j 03:40	2°♌21'02	
	949 Sep 19 j 02:29	0°♍	
	949 Oct 13 j 10:48	0°♎	
	949 Nov 06 j 11:17	0°♏	
	949 Nov 30 j 08:27	0°♐	
morning set	949 Dec 15 j 20:31	19°♐29'39	
desc. node	949 Dec 16 j 16:57	20°♐33'55	
	949 Dec 24 j 05:02	0°♑	
	950 Jan 17 j 02:33	0°♒	
superior conj	950 Jan 26 j 15:45	11°♒58'00	-1°17'54
minimum elong	950 Jan 26 j 06:45	11°♒29'50	1°17'44
max. Earth dist.	950 Jan 30 j 08:45	16°♒36'26	1.71634 AU
	950 Feb 10 j 02:00	0°♓	
	950 Mar 06 j 04:34	0°♈	
evening rise	950 Mar 07 j 19:41	2°♈01'12	
	950 Mar 30 j 11:27	0°♉	
asc. node	950 Apr 08 j 20:31	11°♉30'46	
	950 Apr 23 j 23:37	0°♊	
	950 May 18 j 18:02	0°♋	
	950 Jun 12 j 20:34	0°♌	
	950 Jul 08 j 11:35	0°♍	
desc. node	950 Jul 29 j 09:41	23°♍45'58	
	950 Aug 04 j 00:50	0°♎	
	950 Sep 01 j 16:19	0°♏	
evening max el	950 Sep 01 j 23:40	0°♏17'56	46°34'13
	950 Oct 12 j 00:58	0°♐	
greatest brilliancy	950 Oct 12 j 11:49	0°♐09'19	-4.9m
retrograde	950 Oct 21 j 21:10	1°♐48'32	
	950 Oct 31 j 07:32	30°℞♏	
evening set	950 Nov 05 j 12:55	27°♏34'53	
inferior conj	950 Nov 11 j 09:56	24°♏09'36	-2°05'38
minimum elong	950 Nov 11 j 14:40	24°♏02'26	2°04'08
min. Earth dist.	950 Nov 11 j 16:06	24°♏00'15	0.26458 AU
morning rise	950 Nov 17 j 16:08	20°♏32'01	
asc. node	950 Nov 19 j 12:57	19°♏35'35	
direct	950 Dec 01 j 20:05	16°♏31'11	
greatest brilliancy	950 Dec 12 j 06:03	18°♏35'32	-4.9m
	950 Dec 30 j 22:14	0°♐	
morning max el	951 Jan 21 j 09:52	19°♐40'31	46°51'02
	951 Jan 31 j 08:55	0°♑	
	951 Feb 27 j 10:50	0°♒	
desc. node	951 Mar 11 j 02:40	13°♒25'48	
	951 Mar 25 j 07:07	0°♓	
	951 Apr 19 j 14:56	0°♈	
	951 May 14 j 16:11	0°♉	
	951 Jun 08 j 12:35	0°♊	
asc. node	951 Jul 02 j 05:58	28°♊52'47	
	951 Jul 03 j 03:57	0°♋	
morning set	951 Jul 21 j 06:21	22°♋12'56	
	951 Jul 27 j 13:53	0°♌	
	951 Aug 20 j 18:48	0°♍	
max. Earth dist.	951 Aug 23 j 08:44	3°♍12'36	1.72380 AU
superior conj	951 Aug 26 j 21:40	7°♍36'57	1°24'42
minimum elong	951 Aug 26 j 21:37	7°♍36'47	1°24'43
	951 Sep 13 j 20:15	0°♎	
evening rise	951 Oct 03 j 23:13	25°♎09'28	
	951 Oct 07 j 20:06	0°♏	
desc. node	951 Oct 21 j 19:26	17°♏28'38	
	951 Oct 31 j 19:45	0°♐	
	951 Nov 24 j 20:10	0°♑	
	951 Dec 18 j 22:49	0°♒	
	952 Jan 12 j 06:52	0°♓	
	952 Feb 06 j 02:10	0°♈	
asc. node	952 Feb 11 j 22:43	6°♈57'15	
	952 Mar 02 j 19:11	0°♉	

	952 Mar 30 j 09:56	0°♊	
evening max el	952 Apr 07 j 19:32	8°♊22'31	45°32'37
	952 May 03 j 17:34	0°♋	
greatest brilliancy	952 May 15 j 11:53	6°♋09'50	-4.7m
retrograde	952 May 26 j 11:32	8°♋19'09	
desc. node	952 Jun 02 j 11:59	7°♋20'41	
evening set	952 Jun 10 j 14:27	3°♋54'57	
inferior conj	952 Jun 16 j 22:32	0°♋07'16	-3°18'16
minimum elong	952 Jun 16 j 15:41	0°♋17'57	3°16'25
min. Earth dist.	952 Jun 16 j 22:19	0°♋07'35	0.28972 AU
	952 Jun 17 j 03:11	30℞♊	
morning rise	952 Jun 22 j 16:56	26°♊38'34	
direct	952 Jul 08 j 15:24	21°♊49'46	
greatest brilliancy	952 Jul 19 j 03:02	23°♊48'41	-4.7m
	952 Jul 31 j 03:40	0°♋	
morning max el	952 Aug 26 j 20:43	22°♋17'28	46°04'39
	952 Sep 03 j 13:50	0°♌	
asc. node	952 Sep 23 j 15:34	21°♌36'15	
	952 Oct 01 j 01:34	0°♍	
	952 Oct 26 j 13:42	0°♎	
	952 Nov 20 j 04:34	0°♏	
	952 Dec 14 j 09:58	0°♐	
	953 Jan 07 j 11:58	0°♑	
desc. node	953 Jan 13 j 04:54	7°♑06'52	
	953 Jan 31 j 13:34	0°♒	
	953 Feb 24 j 16:16	0°♓	
morning set	953 Mar 02 j 08:49	7°♓03'50	
	953 Mar 20 j 20:59	0°♈	
superior conj	953 Apr 09 j 19:41	24°♈38'13	-0°57'30
minimum elong	953 Apr 10 j 05:21	25°♈08'00	0°57'10
max. Earth dist.	953 Apr 12 j 07:33	27°♈42'45	1.73164 AU
	953 Apr 14 j 04:06	0°♉	
asc. node	953 May 06 j 08:19	27°♉16'53	
	953 May 08 j 13:27	0°♊	
evening rise	953 May 17 j 02:05	10°♊27'58	
	953 Jun 02 j 00:35	0°♋	
	953 Jun 26 j 13:23	0°♌	
	953 Jul 21 j 04:41	0°♍	
	953 Aug 15 j 00:16	0°♎	
desc. node	953 Aug 25 j 21:41	13°♎04'10	
	953 Sep 09 j 02:52	0°♏	
	953 Oct 04 j 17:20	0°♐	
	953 Oct 31 j 09:18	0°♑	
evening max el	953 Nov 13 j 22:34	14°♑17'16	47°21'42
	953 Nov 30 j 11:00	0°♒	
asc. node	953 Dec 17 j 01:01	12°♒19'41	
greatest brilliancy	953 Dec 24 j 11:45	15°♒57'26	-4.9m
retrograde	954 Jan 03 j 21:26	18°♒01'22	
evening set	954 Jan 20 j 12:03	12°♒34'11	
min. Earth dist.	954 Jan 23 j 17:44	10°♒35'13	0.27297 AU
inferior conj	954 Jan 24 j 16:25	9°♒59'43	7°55'50
minimum elong	954 Jan 24 j 08:18	10°♒12'26	7°54'44
morning rise	954 Jan 28 j 04:55	7°♒49'47	
direct	954 Feb 14 j 07:12	2°♒11'11	
greatest brilliancy	954 Feb 23 j 04:09	3°♒40'10	-4.8m
	954 Apr 01 j 07:22	0°♓	
morning max el	954 Apr 04 j 16:30	3°♓14'49	46°10'19
desc. node	954 Apr 07 j 14:20	6°♓06'06	
	954 Apr 30 j 11:45	0°♈	
	954 May 27 j 07:53	0°♉	
	954 Jun 22 j 04:22	0°♊	
	954 Jul 17 j 09:57	0°♋	
asc. node	954 Jul 29 j 17:52	14°♋53'02	
	954 Aug 11 j 03:41	0°♌	
	954 Sep 04 j 11:51	0°♍	
	954 Sep 28 j 13:15	0°♎	
morning set	954 Sep 29 j 04:07	0°♎46'31	
	954 Oct 22 j 10:54	0°♏	
max. Earth dist.	954 Nov 06 j 22:04	19°♏27'22	1.71122 AU
superior conj	954 Nov 07 j 14:24	20°♏18'47	0°25'11
minimum elong	954 Nov 07 j 20:41	20°♏38'31	0°24'53
	954 Nov 15 j 07:11	0°♐	
desc. node	954 Nov 18 j 07:14	3°♐46'39	
	954 Dec 09 j 03:34	0°♑	
evening rise	954 Dec 19 j 03:29	12°♑33'26	
	955 Jan 02 j 01:11	0°♒	
	955 Jan 26 j 01:34	0°♓	
	955 Feb 19 j 07:00	0°♈	
asc. node	955 Mar 11 j 10:40	24°♈38'59	
	955 Mar 15 j 20:37	0°♉	
	955 Apr 09 j 22:33	0°♊	
	955 May 05 j 19:43	0°♋	
	955 Jun 02 j 04:52	0°♌	
evening max el	955 Jun 18 j 13:07	16°♌25'10	45°28'19
desc. node	955 Jun 30 j 23:57	27°♌39'50	
	955 Jul 03 j 19:48	0°♍	
greatest brilliancy	955 Jul 27 j 18:01	14°♍29'04	-4.7m
retrograde	955 Aug 06 j 06:21	16°♍07'31	
evening set	955 Aug 24 j 07:29	10°♍06'54	
inferior conj	955 Aug 27 j 11:13	8°♍11'53	-8°45'15
minimum elong	955 Aug 27 j 11:07	8°♍12'01	8°45'16
min. Earth dist.	955 Aug 28 j 03:18	7°♍47'06	0.28193 AU
morning rise	955 Aug 30 j 14:33	6°♍16'48	
direct	955 Sep 17 j 17:21	0°♍05'25	
greatest brilliancy	955 Sep 28 j 20:47	2°♍22'20	-4.8m
asc. node	955 Oct 22 j 03:10	17°♍43'04	
	955 Nov 04 j 07:33	0°♎	
morning max el	955 Nov 07 j 05:22	2°♎55'18	46°46'46
	955 Dec 02 j 04:38	0°♏	
	955 Dec 27 j 21:00	0°♐	
	956 Jan 21 j 18:51	0°♑	
desc. node	956 Feb 10 j 16:47	24°♑15'13	
	956 Feb 15 j 09:39	0°♒	
	956 Mar 10 j 21:58	0°♓	
	956 Apr 04 j 09:45	0°♈	
	956 Apr 28 j 21:39	0°♉	
morning set	956 May 11 j 11:42	15°♉24'55	
	956 May 23 j 09:19	0°♊	
asc. node	956 Jun 02 j 20:13	12°♊49'18	
max. Earth dist.	956 Jun 15 j 02:12	27°♊52'03	1.73571 AU
superior conj	956 Jun 16 j 23:37	0°♋11'36	0°32'43
minimum elong	956 Jun 16 j 17:27	29°♊52'41	0°32'27
	956 Jun 16 j 19:50	0°♋	
	956 Jul 11 j 04:32	0°♌	
evening rise	956 Jul 22 j 17:46	14°♌15'25	
	956 Aug 04 j 11:38	0°♍	
	956 Aug 28 j 18:12	0°♎	
desc. node	956 Sep 22 j 09:34	0°♏24'35	
	956 Sep 22 j 01:35	0°♏	
	956 Oct 16 j 10:59	0°♐	
	956 Nov 10 j 00:15	0°♑	
	956 Dec 04 j 22:02	0°♒	
	956 Dec 30 j 16:21	0°♓	
asc. node	957 Jan 13 j 12:52	15°♓18'38	
evening max el	957 Jan 24 j 10:03	26°♓39'45	46°40'28
	957 Jan 27 j 18:29	0°♈	
greatest brilliancy	957 Mar 05 j 00:50	27°♈06'04	-4.8m
retrograde	957 Mar 15 j 16:34	29°♈13'37	
evening set	957 Apr 01 j 09:10	23°♈47'52	
inferior conj	957 Apr 05 j 23:54	20°♈56'52	6°11'03
minimum elong	957 Apr 06 j 09:34	20°♈41'36	6°09'04

min. Earth dist.	957 Apr 06 j 00:38	20°♈55'42	0.28686 AU
morning rise	957 Apr 11 j 10:12	17°♈37'43	
direct	957 Apr 27 j 07:38	12°♈43'16	
desc. node	957 May 05 j 02:04	13°♈50'17	
greatest brilliancy	957 May 07 j 06:02	14°♈30'45	-4.7m
	957 Jun 01 j 02:42	0°♉	
morning max el	957 Jun 15 j 03:09	12°♉32'11	45°44'26
	957 Jul 02 j 12:15	0°♊	
	957 Jul 29 j 21:23	0°♋	
	957 Aug 24 j 16:55	0°♌	
asc. node	957 Aug 26 j 05:45	1°♌49'25	
	957 Sep 18 j 14:33	0°♍	
	957 Oct 12 j 22:29	0°♎	
	957 Nov 05 j 22:47	0°♏	
	957 Nov 29 j 19:51	0°♐	
morning set	957 Dec 13 j 06:14	16°♐53'36	
desc. node	957 Dec 15 j 19:09	20°♐05'08	
	957 Dec 23 j 16:22	0°♑	
	958 Jan 16 j 13:47	0°♒	
superior conj	958 Jan 24 j 02:19	9°♒25'42	-1°16'12
minimum elong	958 Jan 23 j 16:38	8°♒55'22	1°15'58
max. Earth dist.	958 Jan 27 j 18:37	14°♒02'04	1.71588 AU
	958 Feb 09 j 13:10	0°♓	
evening rise	958 Mar 05 j 08:43	29°♓38'15	
	958 Mar 05 j 15:44	0°♈	
	958 Mar 29 j 22:42	0°♉	
asc. node	958 Apr 07 j 22:31	11°♉02'17	
	958 Apr 23 j 11:04	0°♊	
	958 May 18 j 05:53	0°♋	
	958 Jun 12 j 09:09	0°♌	
	958 Jul 08 j 01:31	0°♍	
desc. node	958 Jul 28 j 11:47	23°♍07'32	
	958 Aug 03 j 17:33	0°♎	
evening max el	958 Aug 30 j 13:47	27°♎57'11	46°31'32
	958 Sep 01 j 16:39	0°♏	
greatest brilliancy	958 Oct 10 j 00:05	27°♏40'30	-4.9m
retrograde	958 Oct 19 j 09:25	29°♏18'56	
evening set	958 Nov 03 j 02:58	25°♏02'53	
inferior conj	958 Nov 08 j 21:55	21°♏40'02	-2°29'26
minimum elong	958 Nov 09 j 03:29	21°♏31'35	2°27'42
min. Earth dist.	958 Nov 09 j 05:15	21°♏28'55	0.26487 AU
morning rise	958 Nov 15 j 03:46	18°♏02'53	
asc. node	958 Nov 18 j 15:09	16°♏22'54	
direct	958 Nov 29 j 09:06	14°♏01'19	
greatest brilliancy	958 Dec 09 j 19:20	16°♏06'01	-4.9m
	958 Dec 31 j 12:08	0°♐	
morning max el	959 Jan 18 j 23:29	17°♐14'51	46°51'51
	959 Jan 31 j 04:50	0°♑	
	959 Feb 27 j 02:22	0°♒	
desc. node	959 Mar 10 j 04:41	12°♒49'26	
	959 Mar 24 j 20:40	0°♓	
	959 Apr 19 j 03:24	0°♈	
	959 May 14 j 03:59	0°♉	
	959 Jun 07 j 23:58	0°♊	
asc. node	959 Jul 01 j 08:06	28°♊25'14	
	959 Jul 02 j 15:05	0°♋	
morning set	959 Jul 19 j 00:03	20°♋05'50	
	959 Jul 27 j 00:52	0°♌	
	959 Aug 20 j 05:46	0°♍	
max. Earth dist.	959 Aug 20 j 23:00	0°♍53'34	1.72431 AU
superior conj	959 Aug 24 j 14:28	5°♍25'37	1°24'37
minimum elong	959 Aug 24 j 13:41	5°♍23'10	1°24'38
	959 Sep 13 j 07:19	0°♎	
evening rise	959 Oct 01 j 12:38	22°♎46'16	
	959 Oct 07 j 07:21	0°♏	
desc. node	959 Oct 20 j 21:29	16°♏59'36	
	959 Oct 31 j 07:13	0°♐	
	959 Nov 24 j 07:51	0°♑	
	959 Dec 18 j 10:48	0°♒	
	960 Jan 11 j 19:19	0°♓	
	960 Feb 05 j 15:27	0°♈	
asc. node	960 Feb 11 j 00:43	6°♈23'07	
	960 Mar 02 j 10:14	0°♉	
	960 Mar 30 j 05:45	0°♊	
evening max el	960 Apr 05 j 11:11	6°♊10'17	45°34'05
	960 May 04 j 21:31	0°♋	
greatest brilliancy	960 May 13 j 04:44	4°♋01'21	-4.7m
retrograde	960 May 24 j 03:24	6°♋09'58	
desc. node	960 Jun 01 j 14:10	4°♋45'34	
evening set	960 Jun 08 j 06:00	1°♋47'03	
	960 Jun 11 j 08:05	30°℞♊	
inferior conj	960 Jun 14 j 14:55	27°♊58'00	-2°59'55
minimum elong	960 Jun 14 j 08:38	28°♊07'51	2°58'10
min. Earth dist.	960 Jun 14 j 14:57	27°♊57'56	0.28973 AU
morning rise	960 Jun 20 j 11:13	24°♊26'12	
direct	960 Jul 06 j 07:39	19°♊40'32	
greatest brilliancy	960 Jul 16 j 18:56	21°♊38'39	-4.7m
	960 Aug 01 j 00:50	0°♋	
morning max el	960 Aug 24 j 11:10	20°♋01'49	46°03'22
	960 Sep 03 j 09:14	0°♌	
asc. node	960 Sep 22 j 17:31	20°♌57'23	
	960 Sep 30 j 16:31	0°♍	
	960 Oct 26 j 02:56	0°♎	
	960 Nov 19 j 16:59	0°♏	
	960 Dec 13 j 21:55	0°♐	
	961 Jan 06 j 23:36	0°♑	
desc. node	961 Jan 12 j 06:58	6°♑37'11	
	961 Jan 31 j 00:58	0°♒	
	961 Feb 24 j 03:29	0°♓	
morning set	961 Feb 27 j 21:54	4°♓40'48	
	961 Mar 20 j 08:02	0°♈	
superior conj	961 Apr 07 j 11:31	22°♈25'13	-0°59'59
minimum elong	961 Apr 07 j 21:17	22°♈55'20	0°59'38
max. Earth dist.	961 Apr 10 j 03:09	25°♈41'26	1.73117 AU
	961 Apr 13 j 15:03	0°♉	
asc. node	961 May 05 j 10:26	26°♉49'51	
	961 May 08 j 00:23	0°♊	
evening rise	961 May 14 j 20:01	8°♊22'07	
	961 Jun 01 j 11:37	0°♋	
	961 Jun 26 j 00:41	0°♌	
	961 Jul 20 j 16:26	0°♍	
	961 Aug 14 j 12:43	0°♎	
desc. node	961 Aug 24 j 23:40	12°♎31'46	
	961 Sep 08 j 16:20	0°♏	
	961 Oct 04 j 08:37	0°♐	
	961 Oct 31 j 04:28	0°♑	
evening max el	961 Nov 11 j 11:48	11°♑50'52	47°21'26
	961 Nov 30 j 21:03	0°♒	
asc. node	961 Dec 16 j 03:04	10°♒45'29	
greatest brilliancy	961 Dec 22 j 02:50	13°♒33'27	-4.9m
retrograde	962 Jan 01 j 10:55	15°♒36'20	
evening set	962 Jan 17 j 22:07	10°♒15'22	
min. Earth dist.	962 Jan 21 j 07:35	8°♒11'03	0.27236 AU
inferior conj	962 Jan 22 j 06:06	7°♒35'51	7°45'54
minimum elong	962 Jan 21 j 21:28	7°♒49'22	7°44'36
morning rise	962 Jan 25 j 21:10	5°♒22'09	
	962 Feb 08 j 16:37	30°℞♑	
direct	962 Feb 11 j 19:43	29°♑48'08	
	962 Feb 14 j 23:59	0°♒	
greatest brilliancy	962 Feb 20 j 18:05	1°♒18'00	-4.8m
	962 Apr 01 j 07:35	0°♓	

morning max el	962 Apr 02 j 05:27	0°♓53'02	46°11'51
desc. node	962 Apr 06 j 16:24	5°♓16'54	
	962 Apr 30 j 04:16	0°♈	
	962 May 26 j 21:39	0°♉	
	962 Jun 21 j 16:46	0°♊	
	962 Jul 16 j 21:36	0°♋	
asc. node	962 Jul 28 j 19:50	14°♋24'16	
	962 Aug 10 j 14:57	0°♌	
	962 Sep 03 j 22:56	0°♍	
morning set	962 Sep 26 j 18:26	28°♍26'33	
	962 Sep 28 j 00:17	0°♎	
	962 Oct 21 j 21:56	0°♏	
max. Earth dist.	962 Nov 04 j 06:04	16°♏46'46	1.71143 AU
superior conj	962 Nov 05 j 01:34	17°♏48'09	0°28'51
minimum elong	962 Nov 05 j 08:38	18°♏10'21	0°28'31
	962 Nov 14 j 18:14	0°♐	
desc. node	962 Nov 17 j 09:25	3°♐18'45	
	962 Dec 08 j 14:39	0°♑	
evening rise	962 Dec 16 j 13:38	9°♑59'47	
	963 Jan 01 j 12:20	0°♒	
	963 Jan 25 j 12:49	0°♓	
	963 Feb 18 j 18:26	0°♈	
asc. node	963 Mar 10 j 12:39	24°♈09'21	
	963 Mar 15 j 08:27	0°♉	
	963 Apr 09 j 11:10	0°♊	
	963 May 05 j 09:58	0°♋	
	963 Jun 01 j 23:00	0°♌	
evening max el	963 Jun 16 j 03:36	14°♌10'46	45°27'16
desc. node	963 Jun 30 j 02:01	26°♌39'26	
	963 Jul 04 j 06:17	0°♍	
greatest brilliancy	963 Jul 25 j 06:09	12°♍11'53	-4.7m
retrograde	963 Aug 03 j 21:01	13°♍52'21	
evening set	963 Aug 21 j 20:42	7°♍52'40	
inferior conj	963 Aug 25 j 01:51	5°♍55'36	-8°44'14
minimum elong	963 Aug 25 j 00:54	5°♍57'04	8°44'14
min. Earth dist.	963 Aug 25 j 16:58	5°♍32'21	0.28251 AU
morning rise	963 Aug 28 j 04:53	4°♍01'05	
	963 Sep 04 j 22:06	30°℞♌	
direct	963 Sep 15 j 08:42	27°♌48'12	
	963 Sep 26 j 06:38	0°♍	
greatest brilliancy	963 Sep 26 j 11:49	0°♍05'01	-4.8m
asc. node	963 Oct 21 j 05:21	16°♍40'24	
	963 Nov 04 j 06:23	0°♎	
morning max el	963 Nov 04 j 20:55	0°♎36'48	46°45'44
	963 Dec 01 j 20:56	0°♏	
	963 Dec 27 j 10:56	0°♐	
	964 Jan 21 j 07:34	0°♑	
desc. node	964 Feb 09 j 18:47	23°♑44'17	
	964 Feb 14 j 21:37	0°♒	
	964 Mar 10 j 09:26	0°♓	
	964 Apr 03 j 20:51	0°♈	
	964 Apr 28 j 08:30	0°♉	
morning set	964 May 09 j 05:34	13°♉19'35	
	964 May 22 j 20:01	0°♊	
asc. node	964 Jun 01 j 22:19	12°♊23'01	
max. Earth dist.	964 Jun 13 j 01:30	26°♊03'24	1.73587 AU
superior conj	964 Jun 14 j 18:04	28°♊08'03	0°29'49
minimum elong	964 Jun 14 j 12:22	27°♊50'32	0°29'33
	964 Jun 16 j 06:29	0°♋	
	964 Jul 10 j 15:14	0°♌	
evening rise	964 Jul 20 j 12:16	12°♌11'11	
	964 Aug 03 j 22:30	0°♍	
	964 Aug 28 j 05:20	0°♎	
desc. node	964 Sep 21 j 11:38	29°♎55'27	
	964 Sep 21 j 13:06	0°♏	
	964 Oct 15 j 23:03	0°♐	
	964 Nov 09 j 13:02	0°♑	
	964 Dec 04 j 11:57	0°♒	
	964 Dec 30 j 08:34	0°♓	
asc. node	965 Jan 12 j 14:53	14°♓34'17	
evening max el	965 Jan 22 j 02:00	24°♓24'58	46°43'06
	965 Jan 27 j 17:41	0°♈	
greatest brilliancy	965 Mar 02 j 16:53	24°♈54'05	-4.8m
retrograde	965 Mar 13 j 09:39	27°♈02'18	
evening set	965 Mar 30 j 04:08	21°♈32'20	
inferior conj	965 Apr 03 j 16:02	18°♈45'25	6°25'05
minimum elong	965 Apr 04 j 01:41	18°♈30'11	6°23'10
min. Earth dist.	965 Apr 03 j 15:49	18°♈45'45	0.28661 AU
morning rise	965 Apr 08 j 23:31	15°♈30'34	
direct	965 Apr 24 j 23:44	10°♈32'22	
desc. node	965 May 04 j 04:15	12°♈05'23	
greatest brilliancy	965 May 04 j 20:09	12°♈18'39	-4.7m
	965 Jun 01 j 08:23	0°♉	
morning max el	965 Jun 12 j 20:00	10°♉25'00	45°44'29
	965 Jul 02 j 05:26	0°♊	
	965 Jul 29 j 11:13	0°♋	
	965 Aug 24 j 05:18	0°♌	
asc. node	965 Aug 25 j 07:45	1°♌18'40	
	965 Sep 18 j 02:13	0°♍	
	965 Oct 12 j 09:47	0°♎	
	965 Nov 05 j 09:55	0°♏	
	965 Nov 29 j 06:54	0°♐	
morning set	965 Dec 10 j 16:02	14°♐18'55	
desc. node	965 Dec 14 j 21:07	19°♐36'46	
	965 Dec 23 j 03:22	0°♑	
	966 Jan 16 j 00:42	0°♒	
superior conj	966 Jan 21 j 12:50	6°♒54'06	-1°14'19
minimum elong	966 Jan 21 j 02:32	6°♒21'49	1°14'03
max. Earth dist.	966 Jan 25 j 05:22	11°♒31'23	1.71539 AU
	966 Feb 09 j 00:00	0°♓	
evening rise	966 Mar 02 j 21:44	27°♓16'17	
	966 Mar 05 j 02:31	0°♈	
	966 Mar 29 j 09:32	0°♉	
asc. node	966 Apr 07 j 00:41	10°♉35'38	
	966 Apr 22 j 22:07	0°♊	
	966 May 17 j 17:20	0°♋	
	966 Jun 11 j 21:23	0°♌	
	966 Jul 07 j 15:12	0°♍	
desc. node	966 Jul 27 j 13:45	22°♍29'27	
	966 Aug 03 j 10:12	0°♎	
evening max el	966 Aug 28 j 03:48	25°♎37'23	46°28'52
	966 Sep 01 j 17:43	0°♏	
greatest brilliancy	966 Oct 07 j 13:06	25°♏14'11	-4.9m
retrograde	966 Oct 16 j 21:14	26°♏51'05	
evening set	966 Oct 31 j 17:22	22°♏32'37	
inferior conj	966 Nov 06 j 10:07	19°♏12'27	-2°52'45
minimum elong	966 Nov 06 j 16:28	19°♏02'49	2°50'48
min. Earth dist.	966 Nov 06 j 18:52	18°♏59'09	0.26518 AU
morning rise	966 Nov 12 j 15:18	15°♏35'48	
asc. node	966 Nov 17 j 17:12	13°♏17'13	
direct	966 Nov 26 j 21:57	11°♏33'20	
greatest brilliancy	966 Dec 07 j 09:12	13°♏38'42	-4.9m
	966 Dec 31 j 21:58	0°♐	
morning max el	967 Jan 16 j 12:20	14°♐48'15	46°52'32
	967 Jan 30 j 23:45	0°♑	
	967 Feb 26 j 17:17	0°♒	
desc. node	967 Mar 09 j 06:42	12°♒14'28	
	967 Mar 24 j 09:44	0°♓	
	967 Apr 18 j 15:24	0°♈	
	967 May 13 j 15:19	0°♉	
	967 Jun 07 j 10:53	0°♊	

asc. node	967 Jun 30 j 10:03	27°♊58'33	
	967 Jul 02 j 01:46	0°♋	
morning set	967 Jul 16 j 17:57	18°♋00'34	
	967 Jul 26 j 11:27	0°♌	
max. Earth dist.	967 Aug 18 j 13:20	28°♌35'54	1.72488 AU
	967 Aug 19 j 16:23	0°♍	
superior conj	967 Aug 22 j 07:27	3°♍16'05	1°24'25
minimum elong	967 Aug 22 j 05:57	3°♍11'25	1°24'24
	967 Sep 12 j 18:03	0°♎	
evening rise	967 Sep 29 j 02:12	20°♎24'43	
	967 Oct 06 j 18:15	0°♏	
desc. node	967 Oct 19 j 23:39	16°♏31'59	
	967 Oct 30 j 18:18	0°♐	
	967 Nov 23 j 19:11	0°♑	
	967 Dec 17 j 22:28	0°♒	
	968 Jan 11 j 07:29	0°♓	
	968 Feb 05 j 04:30	0°♈	
asc. node	968 Feb 10 j 02:45	5°♈49'52	
	968 Mar 02 j 01:08	0°♉	
	968 Mar 30 j 01:44	0°♊	
evening max el	968 Apr 03 j 02:15	3°♊57'39	45°35'43
	968 May 06 j 12:41	0°♋	
greatest brilliancy	968 May 10 j 21:40	1°♋54'22	-4.7m
retrograde	968 May 21 j 19:24	4°♋02'42	
desc. node	968 May 31 j 16:07	2°♋08'00	
	968 Jun 05 j 07:21	30°℞♊	
evening set	968 Jun 05 j 21:51	29°♊40'31	
inferior conj	968 Jun 12 j 07:29	25°♊50'38	-2°41'23
minimum elong	968 Jun 12 j 01:47	25°♊59'34	2°39'47
min. Earth dist.	968 Jun 12 j 08:00	25°♊49'50	0.28973 AU
morning rise	968 Jun 18 j 05:35	22°♊15'57	
direct	968 Jul 03 j 23:38	17°♊33'02	
greatest brilliancy	968 Jul 14 j 11:31	19°♊31'07	-4.7m
	968 Aug 01 j 15:47	0°♋	
morning max el	968 Aug 22 j 01:44	17°♋47'48	46°02'01
	968 Sep 03 j 03:39	0°♌	
asc. node	968 Sep 21 j 19:41	20°♌20'28	
	968 Sep 30 j 06:57	0°♍	
	968 Oct 25 j 15:49	0°♎	
	968 Nov 19 j 05:06	0°♏	
	968 Dec 13 j 09:34	0°♐	
	969 Jan 06 j 10:56	0°♑	
desc. node	969 Jan 11 j 08:59	6°♑08'14	
	969 Jan 30 j 12:04	0°♒	
	969 Feb 23 j 14:25	0°♓	
morning set	969 Feb 25 j 10:37	2°♓17'21	
	969 Mar 19 j 18:50	0°♈	
superior conj	969 Apr 05 j 03:14	20°♈12'36	-1°02'23
minimum elong	969 Apr 05 j 13:02	20°♈42'50	1°02'02
max. Earth dist.	969 Apr 07 j 20:16	23°♈33'12	1.73070 AU
	969 Apr 13 j 01:45	0°♉	
asc. node	969 May 04 j 12:33	26°♉23'33	
	969 May 07 j 11:03	0°♊	
evening rise	969 May 12 j 13:56	6°♊17'01	
	969 May 31 j 22:23	0°♋	
	969 Jun 25 j 11:41	0°♌	
	969 Jul 20 j 03:54	0°♍	
	969 Aug 14 j 00:54	0°♎	
desc. node	969 Aug 24 j 01:45	12°♎00'29	
	969 Sep 08 j 05:39	0°♏	
	969 Oct 03 j 23:54	0°♐	
	969 Oct 31 j 00:01	0°♑	
evening max el	969 Nov 09 j 00:59	9°♑24'48	47°21'05
	969 Dec 01 j 10:22	0°♒	
asc. node	969 Dec 15 j 05:04	9°♒07'49	
greatest brilliancy	969 Dec 19 j 17:29	11°♒08'52	-4.9m
retrograde	969 Dec 30 j 00:36	13°♒11'17	
evening set	970 Jan 15 j 07:55	7°♒56'16	
min. Earth dist.	970 Jan 18 j 21:11	5°♒46'46	0.27176 AU
inferior conj	970 Jan 19 j 19:37	5°♒11'48	7°34'52
minimum elong	970 Jan 19 j 10:31	5°♒26'00	7°33'24
morning rise	970 Jan 23 j 13:27	2°♒54'14	
	970 Jan 29 j 01:26	30°℞♑	
direct	970 Feb 09 j 08:01	27°♑24'46	
greatest brilliancy	970 Feb 18 j 07:48	28°♑55'44	-4.8m
	970 Feb 21 j 05:28	0°♒	
morning max el	970 Mar 30 j 19:12	28°♒33'33	46°13'23
	970 Apr 01 j 06:32	0°♓	
desc. node	970 Apr 05 j 18:36	4°♓29'19	
	970 Apr 29 j 20:18	0°♈	
	970 May 26 j 11:07	0°♉	
	970 Jun 21 j 04:57	0°♊	
	970 Jul 16 j 09:04	0°♋	
asc. node	970 Jul 27 j 21:57	13°♋56'32	
	970 Aug 10 j 02:01	0°♌	
	970 Sep 03 j 09:50	0°♍	
morning set	970 Sep 24 j 09:08	26°♍08'25	
	970 Sep 27 j 11:09	0°♎	
	970 Oct 21 j 08:50	0°♏	
max. Earth dist.	970 Nov 01 j 16:08	14°♏13'02	1.71170 AU
superior conj	970 Nov 02 j 12:49	15°♏18'06	0°32'27
minimum elong	970 Nov 02 j 20:35	15°♏42'32	0°32'06
	970 Nov 14 j 05:12	0°♐	
desc. node	970 Nov 16 j 11:26	2°♐50'33	
	970 Dec 08 j 01:42	0°♑	
evening rise	970 Dec 13 j 23:29	7°♑25'16	
	970 Dec 31 j 23:29	0°♒	
	971 Jan 25 j 00:03	0°♓	
	971 Feb 18 j 05:53	0°♈	
asc. node	971 Mar 09 j 14:50	23°♈40'18	
	971 Mar 14 j 20:19	0°♉	
	971 Apr 08 j 23:53	0°♊	
	971 May 05 j 00:24	0°♋	
	971 Jun 01 j 17:36	0°♌	
evening max el	971 Jun 13 j 19:04	11°♌58'52	45°26'21
desc. node	971 Jun 29 j 04:03	25°♌37'39	
	971 Jul 04 j 20:18	0°♍	
greatest brilliancy	971 Jul 22 j 18:16	9°♍55'15	-4.7m
retrograde	971 Aug 01 j 11:53	11°♍37'39	
evening set	971 Aug 19 j 09:43	5°♍39'42	
inferior conj	971 Aug 22 j 16:34	3°♍40'00	-8°42'26
minimum elong	971 Aug 22 j 14:48	3°♍42'43	8°42'23
min. Earth dist.	971 Aug 23 j 06:28	3°♍18'36	0.28303 AU
morning rise	971 Aug 25 j 19:42	1°♍45'23	
	971 Aug 28 j 21:00	30°℞♌	
direct	971 Sep 13 j 00:32	25°♌31'57	
greatest brilliancy	971 Sep 24 j 02:11	27°♌47'43	-4.8m
	971 Sep 28 j 21:56	0°♍	
asc. node	971 Oct 20 j 07:25	15°♍39'26	
morning max el	971 Nov 02 j 12:39	28°♍19'19	46°44'29
	971 Nov 04 j 04:09	0°♎	
	971 Dec 01 j 12:55	0°♏	
	971 Dec 27 j 00:46	0°♐	
	972 Jan 20 j 20:20	0°♑	
desc. node	972 Feb 08 j 20:54	23°♑13'30	
	972 Feb 14 j 09:42	0°♒	
	972 Mar 09 j 21:00	0°♓	
	972 Apr 03 j 08:03	0°♈	
	972 Apr 27 j 19:26	0°♉	
morning set	972 May 06 j 23:09	11°♉13'02	
	972 May 22 j 06:49	0°♊	

asc. node	972 Jun 01 j 00:16	11°♊55'58		
max. Earth dist.	972 Jun 11 j 00:50	24°♊14'26	1.73600 AU	
superior conj	972 Jun 12 j 12:22	26°♊03'37	0°26'51	
minimum elong	972 Jun 12 j 07:09	25°♊47'38	0°26'37	
	972 Jun 15 j 17:16	0°♋		
	972 Jul 10 j 02:05	0°♌		
evening rise	972 Jul 18 j 06:50	10°♌06'46		
	972 Aug 03 j 09:29	0°♍		
	972 Aug 27 j 16:35	0°♎		
desc. node	972 Sep 20 j 13:48	29°♎26'24		
	972 Sep 21 j 00:44	0°♏		
	972 Oct 15 j 11:12	0°♐		
	972 Nov 09 j 01:56	0°♑		
	972 Dec 04 j 02:05	0°♒		
	972 Dec 30 j 01:17	0°♓		
asc. node	973 Jan 11 j 16:57	13°♓48'41		
evening max el	973 Jan 19 j 18:17	22°♓09'58	46°45'27	
	973 Jan 27 j 18:23	0°♈		
greatest brilliancy	973 Feb 28 j 09:14	22°♈40'51	-4.8m	
retrograde	973 Mar 11 j 02:11	24°♈48'53		
evening set	973 Mar 27 j 22:55	19°♈14'59		
inferior conj	973 Apr 01 j 07:54	16°♈32'06	6°38'38	
minimum elong	973 Apr 01 j 17:29	16°♈16'58	6°36'49	
min. Earth dist.	973 Apr 01 j 06:48	16°♈33'51	0.28633 AU	
morning rise	973 Apr 06 j 12:23	13°♈21'35		
direct	973 Apr 22 j 15:41	8°♈19'47		
greatest brilliancy	973 May 02 j 09:46	10°♈04'23	-4.7m	
desc. node	973 May 03 j 06:14	10°♈22'31		
	973 Jun 01 j 12:39	0°♉		
morning max el	973 Jun 10 j 12:02	8°♉14'49	45°44'36	
	973 Jul 01 j 22:35	0°♊		
	973 Jul 29 j 01:12	0°♋		
	973 Aug 23 j 17:53	0°♌		
asc. node	973 Aug 24 j 09:53	0°♌47'38		
	973 Sep 17 j 14:05	0°♍		
	973 Oct 11 j 21:17	0°♎		
	973 Nov 04 j 21:13	0°♏		
	973 Nov 28 j 18:07	0°♐		
morning set	973 Dec 08 j 02:21	11°♐45'20		
desc. node	973 Dec 13 j 23:10	19°♐08'10		
	973 Dec 22 j 14:30	0°♑		
	974 Jan 15 j 11:47	0°♒		
superior conj	974 Jan 18 j 23:26	4°♒22'10	-1°12'17	
minimum elong	974 Jan 18 j 12:37	3°♒48'18	1°12'00	
max. Earth dist.	974 Jan 22 j 16:49	9°♒02'12	1.71497 AU	
	974 Feb 08 j 11:04	0°♓		
evening rise	974 Feb 28 j 10:26	24°♓52'19		
	974 Mar 04 j 13:37	0°♈		
	974 Mar 28 j 20:44	0°♉		
asc. node	974 Apr 06 j 02:42	10°♉07'23		
	974 Apr 22 j 09:31	0°♊		
	974 May 17 j 05:11	0°♋		
	974 Jun 11 j 10:04	0°♌		
	974 Jul 07 j 05:25	0°♍		
desc. node	974 Jul 26 j 15:54	21°♍50'20		
	974 Aug 03 j 03:36	0°♎		
evening max el	974 Aug 25 j 17:00	23°♎14'37	46°26'11	
	974 Sep 01 j 20:38	0°♏		
greatest brilliancy	974 Oct 05 j 02:40	22°♏47'44	-4.9m	
retrograde	974 Oct 14 j 08:38	24°♏22'46		
evening set	974 Oct 29 j 07:59	20°♏01'30		
inferior conj	974 Nov 03 j 22:24	16°♏44'30	-3°15'41	
minimum elong	974 Nov 04 j 05:29	16°♏33'43	3°13'32	
min. Earth dist.	974 Nov 04 j 08:52	16°♏28'34	0.26549 AU	
morning rise	974 Nov 10 j 02:37	13°♏08'38		
asc. node	974 Nov 16 j 19:10	10°♏16'24		
direct	974 Nov 24 j 10:19	9°♏04'48		
greatest brilliancy	974 Dec 04 j 23:36	11°♏11'31	-4.9m	
	975 Jan 01 j 05:20	0°♐		
morning max el	975 Jan 14 j 00:35	12°♐19'28	46°53'20	
	975 Jan 30 j 18:21	0°♑		
	975 Feb 26 j 08:13	0°♒		
desc. node	975 Mar 08 j 08:53	11°♒39'29		
	975 Mar 23 j 22:59	0°♓		
	975 Apr 18 j 03:41	0°♈		
	975 May 13 j 03:01	0°♉		
	975 Jun 06 j 22:11	0°♊		
asc. node	975 Jun 29 j 12:11	27°♊31'14		
	975 Jul 01 j 12:49	0°♋		
morning set	975 Jul 14 j 11:32	15°♋53'14		
	975 Jul 25 j 22:24	0°♌		
max. Earth dist.	975 Aug 16 j 05:25	26°♌22'38	1.72544 AU	
	975 Aug 19 j 03:22	0°♍		
superior conj	975 Aug 20 j 00:17	1°♍05'01	1°24'04	
minimum elong	975 Aug 19 j 22:04	0°♍58'06	1°24'03	
	975 Sep 12 j 05:10	0°♎		
evening rise	975 Sep 26 j 15:51	18°♎02'25		
	975 Oct 06 j 05:32	0°♏		
desc. node	975 Oct 19 j 01:37	16°♏02'36		
	975 Oct 30 j 05:46	0°♐		
	975 Nov 23 j 06:52	0°♑		
	975 Dec 17 j 10:26	0°♒		
	976 Jan 10 j 19:55	0°♓		
	976 Feb 04 j 17:52	0°♈		
asc. node	976 Feb 09 j 04:54	5°♈16'09		
	976 Mar 01 j 16:30	0°♉		
	976 Mar 29 j 22:45	0°♊		
evening max el	976 Mar 31 j 16:58	1°♊43'11	45°37'14	
greatest brilliancy	976 May 08 j 13:57	29°♊45'13	-4.7m	
	976 May 09 j 06:06	0°♋		
retrograde	976 May 19 j 11:34	1°♋54'03		
	976 May 29 j 07:19	30°℞♊		
desc. node	976 May 30 j 18:11	29°♊24'26		
evening set	976 Jun 03 j 13:44	27°♊32'03		
inferior conj	976 Jun 09 j 23:57	23°♊41'40	-2°22'26	
minimum elong	976 Jun 09 j 18:52	23°♊49'37	2°21'00	
min. Earth dist.	976 Jun 10 j 00:54	23°♊40'11	0.28978 AU	
morning rise	976 Jun 15 j 23:48	20°♊04'26		
direct	976 Jul 01 j 15:26	15°♊23'45		
greatest brilliancy	976 Jul 12 j 04:25	17°♊22'28	-4.7m	
	976 Aug 02 j 03:36	0°♋		
morning max el	976 Aug 19 j 16:56	15°♋34'04	46°00'47	
	976 Sep 02 j 22:06	0°♌		
asc. node	976 Sep 20 j 21:47	19°♌42'28		
	976 Sep 29 j 21:37	0°♍		
	976 Oct 25 j 04:59	0°♎		
	976 Nov 18 j 17:30	0°♏		
	976 Dec 12 j 21:31	0°♐		
	977 Jan 05 j 22:34	0°♑		
desc. node	977 Jan 10 j 11:07	5°♑38'45		
	977 Jan 29 j 23:27	0°♒		
morning set	977 Feb 22 j 23:33	29°♒53'39		
	977 Feb 23 j 01:35	0°♓		
	977 Mar 19 j 05:51	0°♈		
superior conj	977 Apr 02 j 19:12	18°♈00'00	-1°04'38	
minimum elong	977 Apr 03 j 05:00	18°♈30'14	1°04'20	
max. Earth dist.	977 Apr 05 j 13:08	21°♈23'26	1.73026 AU	
	977 Apr 12 j 12:41	0°♉		
asc. node	977 May 03 j 14:31	25°♉56'02		
	977 May 06 j 22:00	0°♊		

evening rise	977 May 10 j 08:00	4°♊11'34	
	977 May 31 j 09:28	0°♋	
	977 Jun 24 j 23:05	0°♌	
	977 Jul 19 j 15:46	0°♍	
	977 Aug 13 j 13:30	0°♎	
desc. node	977 Aug 23 j 03:52	11°♎28'01	
	977 Sep 07 j 19:27	0°♏	
	977 Oct 03 j 15:46	0°♐	
	977 Oct 30 j 20:34	0°♑	
evening max el	977 Nov 06 j 14:55	6°♑59'43	47°20'42
	977 Dec 02 j 04:44	0°♒	
asc. node	977 Dec 14 j 07:14	7°♒25'33	
greatest brilliancy	977 Dec 17 j 07:35	8°♒42'25	-4.9m
retrograde	977 Dec 27 j 14:42	10°♒45'04	
evening set	978 Jan 12 j 17:37	5°♒35'47	
min. Earth dist.	978 Jan 16 j 10:30	3°♒21'28	0.27114 AU
inferior conj	978 Jan 17 j 09:03	2°♒46'26	7°22'54
minimum elong	978 Jan 16 j 23:32	3°♒01'14	7°21'16
morning rise	978 Jan 21 j 05:47	0°♒24'59	
	978 Jan 21 j 22:58	30°℞♑	
direct	978 Feb 06 j 20:41	25°♑00'08	
greatest brilliancy	978 Feb 15 j 21:05	26°♑31'59	-4.8m
	978 Feb 23 j 18:17	0°♒	
morning max el	978 Mar 28 j 09:47	26°♒15'31	46°15'05
	978 Apr 01 j 04:47	0°♓	
desc. node	978 Apr 04 j 20:32	3°♓41'18	
	978 Apr 29 j 12:14	0°♈	
	978 May 26 j 00:38	0°♉	
	978 Jun 20 j 17:16	0°♊	
	978 Jul 15 j 20:44	0°♋	
asc. node	978 Jul 27 j 00:04	13°♋28'03	
	978 Aug 09 j 13:22	0°♌	
	978 Sep 02 j 21:01	0°♍	
morning set	978 Sep 21 j 23:50	23°♍49'33	
	978 Sep 26 j 22:16	0°♎	
	978 Oct 20 j 19:58	0°♏	
max. Earth dist.	978 Oct 30 j 02:34	11°♏39'45	1.71196 AU
superior conj	978 Oct 31 j 00:04	12°♏47'20	0°36'00
minimum elong	978 Oct 31 j 08:28	13°♏13'45	0°35'36
	978 Nov 13 j 16:24	0°♐	
desc. node	978 Nov 15 j 13:27	2°♐21'40	
	978 Dec 07 j 13:00	0°♑	
evening rise	978 Dec 11 j 09:19	4°♑49'56	
	978 Dec 31 j 10:52	0°♒	
	979 Jan 24 j 11:33	0°♓	
	979 Feb 17 j 17:34	0°♈	
asc. node	979 Mar 08 j 16:51	23°♈10'05	
	979 Mar 14 j 08:23	0°♉	
	979 Apr 08 j 12:47	0°♊	
	979 May 04 j 15:05	0°♋	
	979 Jun 01 j 12:49	0°♌	
evening max el	979 Jun 11 j 11:02	9°♌47'58	45°25'18
desc. node	979 Jun 28 j 06:10	24°♌34'10	
	979 Jul 05 j 15:15	0°♍	
greatest brilliancy	979 Jul 20 j 06:46	7°♍38'54	-4.7m
retrograde	979 Jul 30 j 02:31	9°♍22'41	
evening set	979 Aug 16 j 22:30	3°♍27'17	
inferior conj	979 Aug 20 j 07:25	1°♍24'15	-8°39'42
minimum elong	979 Aug 20 j 04:50	1°♍28'13	8°39'37
min. Earth dist.	979 Aug 20 j 20:09	1°♍04'37	0.28355 AU
	979 Aug 22 j 14:20	30°℞♌	
morning rise	979 Aug 23 j 11:01	29°♌28'49	
direct	979 Sep 10 j 16:41	23°♌15'41	
greatest brilliancy	979 Sep 21 j 16:32	25°♌29'53	-4.8m
	979 Sep 30 j 13:36	0°♍	
asc. node	979 Oct 19 j 09:23	14°♍38'56	
morning max el	979 Oct 31 j 03:46	25°♍59'45	46°43'09
	979 Nov 04 j 01:26	0°♎	
	979 Dec 01 j 04:51	0°♏	
	979 Dec 26 j 14:39	0°♐	
	980 Jan 20 j 09:09	0°♑	
desc. node	980 Feb 07 j 22:59	22°♑42'18	
	980 Feb 13 j 21:50	0°♒	
	980 Mar 09 j 08:39	0°♓	
	980 Apr 02 j 19:20	0°♈	
	980 Apr 27 j 06:27	0°♉	
morning set	980 May 04 j 17:03	9°♉07'17	
	980 May 21 j 17:40	0°♊	
asc. node	980 May 31 j 02:27	11°♊29'31	
max. Earth dist.	980 Jun 08 j 23:58	22°♊24'58	1.73606 AU
superior conj	980 Jun 10 j 07:01	24°♊00'20	0°23'53
minimum elong	980 Jun 10 j 02:20	23°♊45'57	0°23'40
	980 Jun 15 j 04:03	0°♋	
	980 Jul 09 j 12:56	0°♌	
evening rise	980 Jul 16 j 01:44	8°♌03'24	
	980 Aug 02 j 20:31	0°♍	
	980 Aug 27 j 03:55	0°♎	
desc. node	980 Sep 19 j 15:45	28°♎56'13	
	980 Sep 20 j 12:30	0°♏	
	980 Oct 14 j 23:31	0°♐	
	980 Nov 08 j 15:02	0°♑	
	980 Dec 03 j 16:28	0°♒	
	980 Dec 29 j 18:23	0°♓	
asc. node	981 Jan 10 j 19:04	13°♓02'24	
evening max el	981 Jan 17 j 09:55	19°♓52'56	46°47'46
	981 Jan 27 j 20:27	0°♈	
greatest brilliancy	981 Feb 26 j 02:10	20°♈28'07	-4.8m
retrograde	981 Mar 08 j 18:17	22°♈35'14	
evening set	981 Mar 25 j 17:43	16°♈57'38	
inferior conj	981 Mar 29 j 23:48	14°♈18'47	6°51'36
minimum elong	981 Mar 30 j 09:13	14°♈03'52	6°49'55
min. Earth dist.	981 Mar 29 j 22:04	14°♈21'31	0.28601 AU
morning rise	981 Apr 04 j 01:04	11°♈12'38	
direct	981 Apr 20 j 07:21	6°♈07'16	
greatest brilliancy	981 Apr 29 j 23:45	7°♈50'25	-4.7m
desc. node	981 May 02 j 08:17	8°♈43'23	
	981 Jun 01 j 15:09	0°♉	
morning max el	981 Jun 08 j 03:18	6°♉02'56	45°44'56
	981 Jul 01 j 15:16	0°♊	
	981 Jul 28 j 14:54	0°♋	
asc. node	981 Aug 23 j 11:56	0°♌16'55	
	981 Aug 23 j 06:15	0°♌	
	981 Sep 17 j 01:48	0°♍	
	981 Oct 11 j 08:42	0°♎	
	981 Nov 04 j 08:30	0°♏	
	981 Nov 28 j 05:19	0°♐	
morning set	981 Dec 05 j 12:17	9°♐10'26	
desc. node	981 Dec 13 j 01:21	18°♐39'56	
	981 Dec 22 j 01:38	0°♑	
	982 Jan 14 j 22:51	0°♒	
superior conj	982 Jan 16 j 09:35	1°♒48'54	-1°10'04
minimum elong	982 Jan 15 j 22:22	1°♒13'44	1°09'45
max. Earth dist.	982 Jan 20 j 02:04	6°♒26'12	1.71450 AU
	982 Feb 07 j 22:05	0°♓	
evening rise	982 Feb 25 j 22:47	22°♓27'21	
	982 Mar 04 j 00:38	0°♈	
	982 Mar 28 j 07:50	0°♉	
asc. node	982 Apr 05 j 04:44	9°♉39'27	
	982 Apr 21 j 20:50	0°♊	
	982 May 16 j 16:56	0°♋	
	982 Jun 10 j 22:37	0°♌	

	982 Jul 06 j 19:30	0°♍	
desc. node	982 Jul 25 j 17:58	21°♍11'33	
	982 Aug 02 j 21:03	0°♎	
evening max el	982 Aug 23 j 05:13	20°♎50'33	46°23'28
	982 Sep 02 j 00:47	0°♏	
greatest brilliancy	982 Oct 02 j 16:09	20°♏22'13	-4.9m
retrograde	982 Oct 11 j 19:57	21°♏55'43	
evening set	982 Oct 26 j 22:44	17°♏30'54	
inferior conj	982 Nov 01 j 10:47	14°♏17'26	-3°37'57
minimum elong	982 Nov 01 j 18:32	14°♏05'37	3°35'39
min. Earth dist.	982 Nov 01 j 23:02	13°♏58'47	0.26592 AU
morning rise	982 Nov 07 j 13:49	10°♏42'45	
asc. node	982 Nov 15 j 21:21	7°♏21'51	
direct	982 Nov 21 j 22:37	6°♏36'40	
greatest brilliancy	982 Dec 02 j 14:40	8°♏45'36	-4.9m
	983 Jan 01 j 10:30	0°♐	
morning max el	983 Jan 11 j 13:10	9°♐51'27	46°54'01
	983 Jan 30 j 12:29	0°♑	
	983 Feb 25 j 22:55	0°♒	
desc. node	983 Mar 07 j 10:51	11°♒04'22	
	983 Mar 23 j 12:01	0°♓	
	983 Apr 17 j 15:46	0°♈	
	983 May 12 j 14:28	0°♉	
	983 Jun 06 j 09:14	0°♊	
asc. node	983 Jun 28 j 14:18	27°♊04'36	
	983 Jun 30 j 23:37	0°♋	
morning set	983 Jul 12 j 05:25	13°♋47'35	
	983 Jul 25 j 09:06	0°♌	
max. Earth dist.	983 Aug 14 j 00:01	24°♌18'08	1.72596 AU
superior conj	983 Aug 17 j 17:35	28°♌56'22	1°23'36
minimum elong	983 Aug 17 j 14:41	28°♌47'21	1°23'35
	983 Aug 18 j 14:04	0°♍	
	983 Sep 11 j 15:57	0°♎	
evening rise	983 Sep 24 j 06:08	15°♎43'15	
	983 Oct 05 j 16:30	0°♏	
desc. node	983 Oct 18 j 03:42	15°♏34'35	
	983 Oct 29 j 16:57	0°♐	
	983 Nov 22 j 18:19	0°♑	
	983 Dec 16 j 22:15	0°♒	
	984 Jan 10 j 08:18	0°♓	
	984 Feb 04 j 07:12	0°♈	
asc. node	984 Feb 08 j 06:54	4°♈42'03	
	984 Mar 01 j 07:56	0°♉	
evening max el	984 Mar 29 j 07:49	29°♉29'34	45°39'05
	984 Mar 29 j 20:21	0°♊	
greatest brilliancy	984 May 06 j 05:45	27°♊36'10	-4.7m
retrograde	984 May 17 j 04:11	29°♊46'09	
desc. node	984 May 29 j 20:20	26°♊37'32	
evening set	984 Jun 01 j 05:46	25°♊23'59	
inferior conj	984 Jun 07 j 16:22	21°♊33'17	-2°03'23
minimum elong	984 Jun 07 j 11:55	21°♊40'14	2°02'06
min. Earth dist.	984 Jun 07 j 17:27	21°♊31'35	0.28978 AU
morning rise	984 Jun 13 j 17:52	17°♊53'55	
direct	984 Jun 29 j 07:28	13°♊15'05	
greatest brilliancy	984 Jul 09 j 20:59	15°♊14'26	-4.7m
	984 Aug 02 j 11:55	0°♋	
morning max el	984 Aug 17 j 09:05	13°♋23'56	45°59'44
	984 Sep 02 j 15:42	0°♌	
asc. node	984 Sep 19 j 23:43	19°♌05'36	
	984 Sep 29 j 11:43	0°♍	
	984 Oct 24 j 17:38	0°♎	
	984 Nov 18 j 05:26	0°♏	
	984 Dec 12 j 09:02	0°♐	
	985 Jan 05 j 09:50	0°♑	
desc. node	985 Jan 09 j 13:10	5°♑10'06	
	985 Jan 29 j 10:32	0°♒	
morning set	985 Feb 20 j 11:50	27°♒28'34	
	985 Feb 22 j 12:32	0°♓	
	985 Mar 18 j 16:39	0°♈	
superior conj	985 Mar 31 j 10:29	15°♈45'50	-1°06'51
minimum elong	985 Mar 31 j 20:13	16°♈15'56	1°06'34
max. Earth dist.	985 Apr 03 j 05:16	19°♈12'03	1.72980 AU
	985 Apr 11 j 23:23	0°♉	
asc. node	985 May 02 j 16:40	25°♉29'48	
	985 May 06 j 08:42	0°♊	
evening rise	985 May 08 j 01:33	2°♊05'20	
	985 May 30 j 20:17	0°♋	
	985 Jun 24 j 10:11	0°♌	
	985 Jul 19 j 03:21	0°♍	
	985 Aug 13 j 01:50	0°♎	
desc. node	985 Aug 22 j 05:49	10°♎56'00	
	985 Sep 07 j 08:57	0°♏	
	985 Oct 03 j 07:24	0°♐	
	985 Oct 30 j 17:13	0°♑	
evening max el	985 Nov 04 j 05:43	4°♑38'33	47°20'15
	985 Dec 03 j 04:34	0°♒	
asc. node	985 Dec 13 j 09:15	5°♒40'41	
greatest brilliancy	985 Dec 14 j 20:57	6°♒16'35	-4.9m
retrograde	985 Dec 25 j 05:00	8°♒19'58	
evening set	986 Jan 10 j 03:21	3°♒16'17	
min. Earth dist.	986 Jan 13 j 23:28	0°♒57'32	0.27059 AU
inferior conj	986 Jan 14 j 22:23	0°♒22'01	7°10'04
minimum elong	986 Jan 14 j 12:33	0°♒37'16	7°08'15
	986 Jan 15 j 12:36	30°℞♑	
morning rise	986 Jan 18 j 22:10	27°♑56'32	
direct	986 Feb 04 j 10:00	22°♑36'34	
greatest brilliancy	986 Feb 13 j 09:56	24°♑08'37	-4.9m
	986 Feb 25 j 08:14	0°♒	
morning max el	986 Mar 26 j 00:43	23°♒58'58	46°16'30
	986 Apr 01 j 01:57	0°♓	
desc. node	986 Apr 03 j 22:37	2°♓55'05	
	986 Apr 29 j 03:42	0°♈	
	986 May 25 j 13:50	0°♉	
	986 Jun 20 j 05:17	0°♊	
	986 Jul 15 j 08:06	0°♋	
asc. node	986 Jul 26 j 02:02	13°♋00'10	
	986 Aug 09 j 00:22	0°♌	
	986 Sep 02 j 07:51	0°♍	
morning set	986 Sep 19 j 14:36	21°♍32'00	
	986 Sep 26 j 09:04	0°♎	
	986 Oct 20 j 06:46	0°♏	
max. Earth dist.	986 Oct 27 j 10:44	9°♏00'26	1.71217 AU
superior conj	986 Oct 28 j 11:43	10°♏18'59	0°39'25
minimum elong	986 Oct 28 j 20:39	10°♏47'07	0°39'01
	986 Nov 13 j 03:14	0°♐	
desc. node	986 Nov 14 j 15:38	1°♐54'24	
	986 Dec 06 j 23:54	0°♑	
evening rise	986 Dec 08 j 19:28	2°♑16'52	
	986 Dec 30 j 21:51	0°♒	
	987 Jan 23 j 22:38	0°♓	
	987 Feb 17 j 04:53	0°♈	
asc. node	987 Mar 07 j 18:51	22°♈40'46	
	987 Mar 13 j 20:12	0°♉	
	987 Apr 08 j 01:31	0°♊	
	987 May 04 j 05:44	0°♋	
	987 Jun 01 j 08:23	0°♌	
evening max el	987 Jun 09 j 02:35	7°♌36'33	45°24'23
desc. node	987 Jun 27 j 08:12	23°♌29'28	
	987 Jul 06 j 16:41	0°♍	
greatest brilliancy	987 Jul 17 j 19:51	5°♍23'54	-4.7m
retrograde	987 Jul 27 j 16:43	7°♍08'20	

evening set	987 Aug 14 j 10:57	1°♍16'09	
	987 Aug 16 j 13:20	30°♑℞	
inferior conj	987 Aug 17 j 22:13	29°♌09'19	-8°36'16
minimum elong	987 Aug 17 j 18:50	29°♌14'33	8°36'07
min. Earth dist.	987 Aug 18 j 09:59	28°♌51'09	0.28401 AU
morning rise	987 Aug 21 j 02:33	27°♌12'32	
direct	987 Sep 08 j 08:21	21°♌00'19	
greatest brilliancy	987 Sep 19 j 06:55	23°♌12'55	-4.8m
	987 Oct 01 j 16:48	0°♍	
asc. node	987 Oct 18 j 11:36	13°♍41'11	
morning max el	987 Oct 28 j 17:52	23°♍38'32	46°41'51
	987 Nov 03 j 21:40	0°♎	
	987 Nov 30 j 20:13	0°♏	
	987 Dec 26 j 04:05	0°♐	
	988 Jan 19 j 21:32	0°♑	
desc. node	988 Feb 07 j 00:58	22°♑12'06	
	988 Feb 13 j 09:34	0°♒	
	988 Mar 08 j 19:55	0°♓	
	988 Apr 02 j 06:16	0°♈	
	988 Apr 26 j 17:11	0°♉	
morning set	988 May 02 j 10:41	7°♉01'27	
	988 May 21 j 04:18	0°♊	
asc. node	988 May 30 j 04:31	11°♊03'22	
max. Earth dist.	988 Jun 06 j 20:42	20°♊28'41	1.73614 AU
superior conj	988 Jun 08 j 01:19	21°♊56'34	0°20'52
minimum elong	988 Jun 07 j 21:11	21°♊43'54	0°20'39
	988 Jun 14 j 14:39	0°♋	
	988 Jul 08 j 23:36	0°♌	
evening rise	988 Jul 13 j 20:13	5°♌59'25	
	988 Aug 02 j 07:21	0°♍	
	988 Aug 26 j 15:04	0°♎	
desc. node	988 Sep 18 j 17:50	28°♎27'02	
	988 Sep 20 j 00:05	0°♏	
	988 Oct 14 j 11:42	0°♐	
	988 Nov 08 j 04:01	0°♑	
	988 Dec 03 j 06:46	0°♒	
	988 Dec 29 j 11:32	0°♓	
asc. node	989 Jan 09 j 21:06	12°♓16'02	
evening max el	989 Jan 15 j 00:41	17°♓34'24	46°50'09
	989 Jan 27 j 23:37	0°♈	
greatest brilliancy	989 Feb 23 j 19:24	18°♈16'39	-4.8m
retrograde	989 Mar 06 j 10:03	20°♈22'41	
evening set	989 Mar 23 j 12:32	14°♈41'22	
inferior conj	989 Mar 27 j 15:48	12°♈06'36	7°03'56
minimum elong	989 Mar 28 j 01:00	11°♈52'01	7°02'22
min. Earth dist.	989 Mar 27 j 13:37	12°♈10'04	0.28569 AU
morning rise	989 Apr 01 j 13:46	9°♈04'56	
direct	989 Apr 17 j 22:42	3°♈55'46	
greatest brilliancy	989 Apr 27 j 14:21	5°♈37'58	-4.7m
desc. node	989 May 01 j 10:27	7°♈08'47	
	989 Jun 01 j 16:01	0°♉	
morning max el	989 Jun 05 j 17:54	3°♉49'54	45°45'08
	989 Jul 01 j 07:31	0°♊	
	989 Jul 28 j 04:24	0°♋	
asc. node	989 Aug 22 j 13:58	29°♋46'28	
	989 Aug 22 j 18:30	0°♌	
	989 Sep 16 j 13:25	0°♍	
	989 Oct 10 j 19:59	0°♎	
	989 Nov 03 j 19:39	0°♏	
	989 Nov 27 j 16:24	0°♐	
morning set	989 Dec 02 j 22:11	6°♐35'47	
desc. node	989 Dec 12 j 03:18	18°♐11'24	
	989 Dec 21 j 12:40	0°♑	
superior conj	990 Jan 13 j 19:47	29°♑15'59	-1°07'43
minimum elong	990 Jan 13 j 08:13	28°♑39'46	1°07'21
	990 Jan 14 j 09:49	0°♒	
max. Earth dist.	990 Jan 17 j 08:00	3°♒40'01	1.71403 AU
	990 Feb 07 j 09:00	0°♓	
evening rise	990 Feb 23 j 11:09	20°♓02'46	
	990 Mar 03 j 11:32	0°♈	
	990 Mar 27 j 18:49	0°♉	
asc. node	990 Apr 04 j 06:54	9°♉12'21	
	990 Apr 21 j 08:02	0°♊	
	990 May 16 j 04:37	0°♋	
	990 Jun 10 j 11:12	0°♌	
	990 Jul 06 j 09:48	0°♍	
desc. node	990 Jul 24 j 19:57	20°♍31'50	
	990 Aug 02 j 15:02	0°♎	
evening max el	990 Aug 20 j 17:06	18°♎25'36	46°20'50
	990 Sep 02 j 07:04	0°♏	
greatest brilliancy	990 Sep 30 j 05:09	17°♏55'55	-4.9m
retrograde	990 Oct 09 j 07:32	19°♏28'35	
evening set	990 Oct 24 j 13:30	14°♏59'41	
inferior conj	990 Oct 29 j 23:03	11°♏50'01	-3°59'46
minimum elong	990 Oct 30 j 07:25	11°♏37'17	3°57'21
min. Earth dist.	990 Oct 30 j 12:51	11°♏29'03	0.26637 AU
morning rise	990 Nov 05 j 00:44	8°♏17'10	
asc. node	990 Nov 14 j 23:23	4°♏33'00	
direct	990 Nov 19 j 11:02	4°♏08'06	
greatest brilliancy	990 Nov 30 j 05:27	6°♏19'21	-4.9m
	991 Jan 01 j 13:54	0°♐	
morning max el	991 Jan 09 j 02:27	7°♐25'04	46°54'43
	991 Jan 30 j 06:11	0°♑	
	991 Feb 25 j 13:28	0°♒	
desc. node	991 Mar 06 j 12:55	10°♒29'44	
	991 Mar 23 j 00:59	0°♓	
	991 Apr 17 j 03:47	0°♈	
	991 May 12 j 01:54	0°♉	
	991 Jun 05 j 20:17	0°♊	
asc. node	991 Jun 27 j 16:15	26°♊37'25	
	991 Jun 30 j 10:27	0°♋	
morning set	991 Jul 09 j 23:21	11°♋41'59	
	991 Jul 24 j 19:52	0°♌	
max. Earth dist.	991 Aug 11 j 19:36	22°♌16'18	1.72652 AU
superior conj	991 Aug 15 j 10:45	26°♌46'54	1°23'01
minimum elong	991 Aug 15 j 07:12	26°♌35'53	1°22'59
	991 Aug 18 j 00:54	0°♍	
	991 Sep 11 j 02:56	0°♎	
evening rise	991 Sep 21 j 20:14	13°♎22'57	
	991 Oct 05 j 03:39	0°♏	
desc. node	991 Oct 17 j 05:49	15°♏06'01	
	991 Oct 29 j 04:19	0°♐	
	991 Nov 22 j 05:57	0°♑	
	991 Dec 16 j 10:14	0°♒	
	992 Jan 09 j 20:51	0°♓	
	992 Feb 03 j 20:46	0°♈	
asc. node	992 Feb 07 j 08:56	4°♈07'33	
	992 Feb 29 j 23:43	0°♉	
evening max el	992 Mar 26 j 23:35	27°♉17'55	45°41'04
	992 Mar 29 j 18:56	0°♊	
greatest brilliancy	992 May 03 j 21:27	25°♊27'02	-4.7m
retrograde	992 May 14 j 21:18	27°♊38'18	
desc. node	992 May 28 j 22:18	23°♊47'39	
evening set	992 May 29 j 22:09	23°♊15'55	
inferior conj	992 Jun 05 j 08:53	19°♊24'53	-1°44'13
minimum elong	992 Jun 05 j 05:06	19°♊30'48	1°43'07
min. Earth dist.	992 Jun 05 j 09:46	19°♊23'31	0.28978 AU
morning rise	992 Jun 11 j 11:58	15°♊43'41	
direct	992 Jun 27 j 00:10	11°♊06'37	
greatest brilliancy	992 Jul 07 j 13:03	13°♊05'54	-4.7m
	992 Aug 02 j 17:56	0°♋	

morning max el	992 Aug 15 j 01:43	11°♋14'44	45°58'26
	992 Sep 02 j 09:08	0°♌	
asc. node	992 Sep 19 j 01:55	18°♌29'02	
	992 Sep 29 j 01:57	0°♍	
	992 Oct 24 j 06:33	0°♎	
	992 Nov 17 j 17:39	0°♏	
	992 Dec 11 j 20:51	0°♐	
	993 Jan 04 j 21:21	0°♑	
desc. node	993 Jan 08 j 15:10	4°♑40'29	
	993 Jan 28 j 21:51	0°♒	
morning set	993 Feb 17 j 23:57	25°♒02'09	
	993 Feb 21 j 23:40	0°♓	
	993 Mar 18 j 03:40	0°♈	
superior conj	993 Mar 29 j 01:42	13°♈30'41	-1°08'58
minimum elong	993 Mar 29 j 11:19	14°♈00'23	1°08'41
max. Earth dist.	993 Mar 31 j 23:05	17°♈05'00	1.72934 AU
	993 Apr 11 j 10:19	0°♉	
asc. node	993 May 01 j 18:43	25°♉02'31	
evening rise	993 May 05 j 19:12	29°♉58'42	
	993 May 05 j 19:38	0°♊	
	993 May 30 j 07:21	0°♋	
	993 Jun 23 j 21:32	0°♌	
	993 Jul 18 j 15:11	0°♍	
	993 Aug 12 j 14:28	0°♎	
desc. node	993 Aug 21 j 07:57	10°♎23'32	
	993 Sep 06 j 22:54	0°♏	
	993 Oct 02 j 23:45	0°♐	
	993 Oct 30 j 15:13	0°♑	
evening max el	993 Nov 01 j 20:59	2°♑16'57	47°19'28
	993 Dec 04 j 15:19	0°♒	
asc. node	993 Dec 12 j 11:15	3°♒49'30	
greatest brilliancy	993 Dec 12 j 10:16	3°♒48'34	-4.9m
retrograde	993 Dec 22 j 19:03	5°♒52'08	
evening set	994 Jan 07 j 12:53	0°♒54'25	
	994 Jan 09 j 01:57	30°℞♑	
min. Earth dist.	994 Jan 11 j 12:15	28°♑31'00	0.26997 AU
inferior conj	994 Jan 12 j 11:24	27°♑55'09	6°56'16
minimum elong	994 Jan 12 j 01:20	28°♑10'44	6°54'17
morning rise	994 Jan 16 j 14:17	25°♑25'29	
direct	994 Feb 01 j 23:13	20°♑10'55	
greatest brilliancy	994 Feb 10 j 22:20	21°♑42'43	-4.9m
	994 Feb 26 j 11:43	0°♒	
morning max el	994 Mar 23 j 14:50	21°♒39'09	46°18'00
	994 Mar 31 j 22:47	0°♓	
desc. node	994 Apr 03 j 00:48	2°♓08'48	
	994 Apr 28 j 19:15	0°♈	
	994 May 25 j 03:13	0°♉	
	994 Jun 19 j 17:32	0°♊	
	994 Jul 14 j 19:42	0°♋	
asc. node	994 Jul 25 j 04:08	12°♋31'51	
	994 Aug 08 j 11:38	0°♌	
	994 Sep 01 j 18:58	0°♍	
morning set	994 Sep 17 j 05:48	19°♍14'57	
	994 Sep 25 j 20:08	0°♎	
	994 Oct 19 j 17:54	0°♏	
max. Earth dist.	994 Oct 24 j 17:00	6°♏14'12	1.71249 AU
superior conj	994 Oct 25 j 23:37	7°♏50'26	0°42'44
minimum elong	994 Oct 26 j 09:02	8°♏20'01	0°42'20
	994 Nov 12 j 14:29	0°♐	
desc. node	994 Nov 13 j 17:36	1°♐25'16	
evening rise	994 Dec 06 j 05:16	29°♐41'12	
	994 Dec 06 j 11:15	0°♑	
	994 Dec 30 j 09:17	0°♒	
	995 Jan 23 j 10:11	0°♓	
	995 Feb 16 j 16:40	0°♈	
asc. node	995 Mar 06 j 21:01	22°♈10'38	
	995 Mar 13 j 08:27	0°♉	
	995 Apr 07 j 14:44	0°♊	
	995 May 03 j 20:57	0°♋	
	995 Jun 01 j 04:56	0°♌	
evening max el	995 Jun 06 j 17:35	5°♌23'01	45°23'34
desc. node	995 Jun 26 j 10:14	22°♌22'30	
	995 Jul 08 j 04:58	0°♍	
greatest brilliancy	995 Jul 15 j 09:53	3°♍09'42	-4.7m
retrograde	995 Jul 25 j 06:56	4°♍54'22	
	995 Aug 10 j 10:02	30°℞♌	
evening set	995 Aug 11 j 23:31	29°♌05'49	
inferior conj	995 Aug 15 j 13:24	26°♌54'55	-8°32'05
minimum elong	995 Aug 15 j 09:14	27°♌01'21	8°31'50
min. Earth dist.	995 Aug 16 j 00:32	26°♌37'40	0.28445 AU
morning rise	995 Aug 18 j 18:47	24°♌56'15	
direct	995 Sep 05 j 23:46	18°♌45'22	
greatest brilliancy	995 Sep 16 j 22:04	20°♌56'56	-4.8m
	995 Oct 02 j 12:46	0°♍	
asc. node	995 Oct 17 j 13:36	12°♍43'48	
morning max el	995 Oct 26 j 07:14	21°♍14'59	46°40'27
	995 Nov 03 j 17:31	0°♎	
	995 Nov 30 j 11:41	0°♏	
	995 Dec 25 j 17:48	0°♐	
	996 Jan 19 j 10:19	0°♑	
desc. node	996 Feb 06 j 03:05	21°♑40'53	
	996 Feb 12 j 21:44	0°♒	
	996 Mar 08 j 07:37	0°♓	
	996 Apr 01 j 17:37	0°♈	
	996 Apr 26 j 04:17	0°♉	
morning set	996 Apr 30 j 04:04	4°♉53'44	
	996 May 20 j 15:15	0°♊	
asc. node	996 May 29 j 06:28	10°♊35'48	
max. Earth dist.	996 Jun 04 j 16:28	18°♊28'32	1.73619 AU
superior conj	996 Jun 05 j 19:40	19°♊52'00	0°17'48
minimum elong	996 Jun 05 j 16:06	19°♊41'04	0°17'38
	996 Jun 14 j 01:35	0°♋	
	996 Jul 08 j 10:35	0°♌	
evening rise	996 Jul 11 j 15:01	3°♌55'26	
	996 Aug 01 j 18:31	0°♍	
	996 Aug 26 j 02:31	0°♎	
desc. node	996 Sep 17 j 19:58	27°♎57'15	
	996 Sep 19 j 11:58	0°♏	
	996 Oct 14 j 00:08	0°♐	
	996 Nov 07 j 17:18	0°♑	
	996 Dec 02 j 21:31	0°♒	
	996 Dec 29 j 05:30	0°♓	
asc. node	997 Jan 08 j 23:08	11°♓27'43	
evening max el	997 Jan 12 j 14:30	15°♓11'57	46°52'15
	997 Jan 28 j 05:18	0°♈	
greatest brilliancy	997 Feb 21 j 12:31	16°♈02'52	-4.8m
retrograde	997 Mar 04 j 01:35	18°♈08'01	
evening set	997 Mar 21 j 07:07	12°♈22'48	
inferior conj	997 Mar 25 j 07:35	9°♈52'19	7°15'43
minimum elong	997 Mar 25 j 16:31	9°♈38'09	7°14'17
min. Earth dist.	997 Mar 25 j 05:08	9°♈56'13	0.28537 AU
morning rise	997 Mar 30 j 02:11	6°♈55'23	
direct	997 Apr 15 j 13:22	1°♈42'01	
greatest brilliancy	997 Apr 25 j 05:10	3°♈24'00	-4.7m
desc. node	997 Apr 30 j 12:23	5°♈35'33	
	997 Jun 01 j 16:11	0°♉	
morning max el	997 Jun 03 j 08:26	1°♉35'25	45°45'35
	997 Jun 30 j 23:47	0°♊	
	997 Jul 27 j 18:02	0°♋	
asc. node	997 Aug 21 j 16:03	29°♋15'38	
	997 Aug 22 j 06:55	0°♌	

	997 Sep 16 j 01:12	0°♍	
	997 Oct 10 j 07:28	0°♎	
	997 Nov 03 j 06:59	0°♏	
	997 Nov 27 j 03:38	0°♐	
morning set	997 Nov 30 j 08:44	4°♐02'37	
desc. node	997 Dec 11 j 05:22	17°♐42'42	
	997 Dec 20 j 23:50	0°♑	
superior conj	998 Jan 11 j 06:07	26°♑42'58	-1°05'13
minimum elong	998 Jan 10 j 18:20	26°♑05'58	1°04'50
	998 Jan 13 j 20:57	0°♒	
max. Earth dist.	998 Jan 14 j 12:41	0°♒49'20	1.71366 AU
	998 Feb 06 j 20:07	0°♓	
evening rise	998 Feb 20 j 23:21	17°♓36'48	
	998 Mar 02 j 22:42	0°♈	
	998 Mar 27 j 06:04	0°♉	
asc. node	998 Apr 03 j 08:52	8°♉43'45	
	998 Apr 20 j 19:32	0°♊	
	998 May 15 j 16:35	0°♋	
	998 Jun 10 j 00:06	0°♌	
	998 Jul 06 j 00:28	0°♍	
desc. node	998 Jul 23 j 22:04	19°♍51'41	
	998 Aug 02 j 09:37	0°♎	
evening max el	998 Aug 18 j 05:39	16°♎02'10	46°18'18
	998 Sep 02 j 15:53	0°♏	
greatest brilliancy	998 Sep 27 j 17:40	15°♏29'17	-4.9m
retrograde	998 Oct 06 j 19:52	17°♏01'52	
evening set	998 Oct 22 j 04:33	12°♏28'34	
inferior conj	998 Oct 27 j 11:26	9°♏22'45	-4°21'04
minimum elong	998 Oct 27 j 20:22	9°♏09'12	4°18'32
min. Earth dist.	998 Oct 28 j 02:22	9°♏00'06	0.26684 AU
morning rise	998 Nov 02 j 11:35	5°♏52'18	
asc. node	998 Nov 14 j 01:20	1°♏50'36	
direct	998 Nov 17 j 00:03	1°♏39'51	
greatest brilliancy	998 Nov 27 j 19:44	3°♏52'46	-4.9m
	999 Jan 01 j 15:46	0°♐	
morning max el	999 Jan 06 j 16:45	5°♐01'25	46°55'24
	999 Jan 29 j 23:31	0°♑	
	999 Feb 25 j 03:51	0°♒	
desc. node	999 Mar 05 j 15:03	9°♒55'28	
	999 Mar 22 j 13:56	0°♓	
	999 Apr 16 j 15:53	0°♈	
	999 May 11 j 13:25	0°♉	
	999 Jun 05 j 07:25	0°♊	
asc. node	999 Jun 26 j 18:23	26°♊10'31	
	999 Jun 29 j 21:22	0°♋	
morning set	999 Jul 07 j 17:13	9°♋36'01	
	999 Jul 24 j 06:41	0°♌	
max. Earth dist.	999 Aug 09 j 15:19	20°♌14'54	1.72702 AU
superior conj	999 Aug 13 j 03:57	24°♌37'33	1°22'18
minimum elong	999 Aug 12 j 23:46	24°♌24'34	1°22'15
	999 Aug 17 j 11:45	0°♍	
	999 Sep 10 j 13:55	0°♎	
evening rise	999 Sep 19 j 10:38	11°♎03'35	
	999 Oct 04 j 14:49	0°♏	
desc. node	999 Oct 16 j 07:47	14°♏36'55	
	999 Oct 28 j 15:42	0°♐	
	999 Nov 21 j 17:35	0°♑	
	999 Dec 15 j 22:13	0°♒	
	1000 Jan 09 j 09:22	0°♓	
	1000 Feb 03 j 10:21	0°♈	
asc. node	1000 Feb 06 j 11:05	3°♈33'29	
	1000 Feb 29 j 15:40	0°♉	
evening max el	1000 Mar 24 j 16:03	25°♉08'02	45°42'54
	1000 Mar 29 j 18:27	0°♊	
greatest brilliancy	1000 May 01 j 13:23	23°♊18'00	-4.7m
retrograde	1000 May 12 j 14:23	25°♊29'55	
evening set	1000 May 27 j 14:39	21°♊07'27	
desc. node	1000 May 28 j 00:21	20°♊54'06	
inferior conj	1000 Jun 03 j 01:18	17°♊16'06	-1°24'44
minimum elong	1000 Jun 02 j 22:13	17°♊20'56	1°23'51
min. Earth dist.	1000 Jun 03 j 01:54	17°♊15'10	0.28977 AU
morning rise	1000 Jun 09 j 05:49	13°♊33'09	
direct	1000 Jun 24 j 17:04	8°♊57'59	
greatest brilliancy	1000 Jul 05 j 04:29	10°♊56'25	-4.7m
	1000 Aug 02 j 22:02	0°♋	
morning max el	1000 Aug 12 j 18:13	9°♋05'26	45°57'13
	1000 Sep 02 j 02:08	0°♌	
asc. node	1000 Sep 18 j 03:57	17°♌52'37	
	1000 Sep 28 j 15:56	0°♍	
	1000 Oct 23 j 19:14	0°♎	
	1000 Nov 17 j 05:41	0°♏	
	1000 Dec 11 j 08:29	0°♐	
	1001 Jan 04 j 08:44	0°♑	
desc. node	1001 Jan 07 j 17:18	4°♑11'44	
	1001 Jan 28 j 09:01	0°♒	
morning set	1001 Feb 15 j 12:09	22°♒36'28	
	1001 Feb 21 j 10:39	0°♓	
	1001 Mar 17 j 14:30	0°♈	
superior conj	1001 Mar 26 j 16:58	11°♈16'05	-1°10'58
minimum elong	1001 Mar 27 j 02:22	11°♈45'10	1°10'42
max. Earth dist.	1001 Mar 29 j 18:55	15°♈04'41	1.72887 AU
	1001 Apr 10 j 21:03	0°♉	
asc. node	1001 Apr 30 j 20:43	24°♉35'35	
evening rise	1001 May 03 j 12:49	27°♉52'25	
	1001 May 05 j 06:24	0°♊	
	1001 May 29 j 18:17	0°♋	
	1001 Jun 23 j 08:47	0°♌	
	1001 Jul 18 j 02:56	0°♍	
	1001 Aug 12 j 03:01	0°♎	
desc. node	1001 Aug 20 j 10:01	9°♎51'19	
	1001 Sep 06 j 12:47	0°♏	
	1001 Oct 02 j 16:07	0°♐	
evening max el	1001 Oct 30 j 12:05	29°♐55'45	47°18'35
	1001 Oct 30 j 13:46	0°♑	
	1001 Dec 06 j 18:59	0°♒	
greatest brilliancy	1001 Dec 10 j 00:10	1°♒22'06	-4.9m
asc. node	1001 Dec 11 j 13:24	1°♒54'57	
retrograde	1001 Dec 20 j 08:49	3°♒24'56	
	1002 Jan 02 j 06:25	30°℞♑	
evening set	1002 Jan 04 j 22:35	28°♑33'20	
min. Earth dist.	1002 Jan 09 j 01:25	26°♑04'50	0.26937 AU
inferior conj	1002 Jan 10 j 00:27	25°♑29'09	6°41'31
minimum elong	1002 Jan 09 j 14:14	25°♑44'58	6°39'25
morning rise	1002 Jan 14 j 06:27	22°♑55'02	
direct	1002 Jan 30 j 12:14	17°♑46'09	
greatest brilliancy	1002 Feb 08 j 11:09	19°♑17'48	-4.9m
	1002 Feb 27 j 07:25	0°♒	
morning max el	1002 Mar 21 j 04:03	19°♒17'49	46°19'33
	1002 Mar 31 j 18:36	0°♓	
desc. node	1002 Apr 02 j 02:43	1°♓23'28	
	1002 Apr 28 j 10:15	0°♈	
	1002 May 24 j 16:11	0°♉	
	1002 Jun 19 j 05:27	0°♊	
	1002 Jul 14 j 07:03	0°♋	
asc. node	1002 Jul 24 j 06:15	12°♋04'20	
	1002 Aug 07 j 22:40	0°♌	
	1002 Sep 01 j 05:51	0°♍	
morning set	1002 Sep 14 j 20:52	16°♍58'17	
	1002 Sep 25 j 06:58	0°♎	
	1002 Oct 19 j 04:46	0°♏	
max. Earth dist.	1002 Oct 21 j 22:38	3°♏26'54	1.71280 AU

superior conj	1002 Oct 23 j 11:37	5°♏23'08	0°45'58
minimum elong	1002 Oct 23 j 21:25	5°♏53'55	0°45'33
	1002 Nov 12 j 01:25	0°♐	
desc. node	1002 Nov 12 j 19:40	0°♐57'20	
evening rise	1002 Dec 03 j 15:07	27°♐06'42	
	1002 Dec 05 j 22:17	0°♑	
	1002 Dec 29 j 20:25	0°♒	
	1003 Jan 22 j 21:27	0°♓	
	1003 Feb 16 j 04:11	0°♈	
asc. node	1003 Mar 05 j 23:00	21°♈40'47	
	1003 Mar 12 j 20:27	0°♉	
	1003 Apr 07 j 03:41	0°♊	
	1003 May 03 j 12:00	0°♋	
	1003 Jun 01 j 01:46	0°♌	
evening max el	1003 Jun 04 j 07:43	3°♌08'23	45°22'47
desc. node	1003 Jun 25 j 12:21	21°♌14'45	
	1003 Jul 10 j 12:18	0°♍	
greatest brilliancy	1003 Jul 12 j 23:45	0°♍56'02	-4.7m
retrograde	1003 Jul 22 j 20:58	2°♍41'17	
	1003 Aug 03 j 15:52	30°℞♌	
evening set	1003 Aug 09 j 11:41	26°♌56'24	
inferior conj	1003 Aug 13 j 04:29	24°♌41'12	-8°27'00
minimum elong	1003 Aug 12 j 23:35	24°♌48'47	8°26'39
min. Earth dist.	1003 Aug 13 j 15:15	24°♌24'32	0.28491 AU
morning rise	1003 Aug 16 j 11:17	22°♌40'17	
direct	1003 Sep 03 j 14:48	16°♌30'50	
greatest brilliancy	1003 Sep 14 j 13:49	18°♌42'22	-4.8m
	1003 Oct 03 j 03:23	0°♍	
asc. node	1003 Oct 16 j 15:35	11°♍48'12	
morning max el	1003 Oct 23 j 20:39	18°♍52'15	46°39'10
	1003 Nov 03 j 12:34	0°♎	
	1003 Nov 30 j 02:40	0°♏	
	1003 Dec 25 j 07:05	0°♐	
	1004 Jan 18 j 22:40	0°♑	
desc. node	1004 Feb 05 j 05:10	21°♑10'51	
	1004 Feb 12 j 09:27	0°♒	
	1004 Mar 07 j 18:55	0°♓	
	1004 Apr 01 j 04:36	0°♈	
	1004 Apr 25 j 15:03	0°♉	
morning set	1004 Apr 27 j 21:26	2°♉46'49	
	1004 May 20 j 01:53	0°♊	
asc. node	1004 May 28 j 08:38	10°♊10'01	
max. Earth dist.	1004 Jun 02 j 12:16	16°♊29'32	1.73623 AU
superior conj	1004 Jun 03 j 14:06	17°♊48'49	0°14'44
minimum elong	1004 Jun 03 j 11:08	17°♊39'42	0°14'36
behind sun begin	1004 Jun 03 j 02:24	17°♊12'55	
behind sun end	1004 Jun 03 j 19:51	18°♊06'30	
	1004 Jun 13 j 12:09	0°♋	
	1004 Jul 07 j 21:13	0°♌	
evening rise	1004 Jul 09 j 09:59	1°♌53'12	
	1004 Aug 01 j 05:22	0°♍	
	1004 Aug 25 j 13:43	0°♎	
desc. node	1004 Sep 16 j 21:55	27°♎27'34	
	1004 Sep 18 j 23:37	0°♏	
	1004 Oct 13 j 12:24	0°♐	
	1004 Nov 07 j 06:25	0°♑	
	1004 Dec 02 j 12:08	0°♒	
	1004 Dec 28 j 23:30	0°♓	
asc. node	1005 Jan 08 j 01:16	10°♓39'57	
evening max el	1005 Jan 10 j 03:59	12°♓49'35	46°54'34
	1005 Jan 28 j 12:45	0°♈	
greatest brilliancy	1005 Feb 19 j 05:06	13°♈49'20	-4.8m
retrograde	1005 Mar 01 j 17:21	15°♈54'24	
evening set	1005 Mar 19 j 01:33	10°♈05'00	
inferior conj	1005 Mar 22 j 23:20	7°♈38'48	7°26'48
minimum elong	1005 Mar 23 j 07:57	7°♈25'09	7°25'30
min. Earth dist.	1005 Mar 22 j 20:26	7°♈43'24	0.28505 AU
morning rise	1005 Mar 27 j 14:33	4°♈46'54	
	1005 Apr 08 j 01:36	30°℞♓	
direct	1005 Apr 13 j 03:57	29°♓28'50	
	1005 Apr 18 j 09:51	0°♈	
greatest brilliancy	1005 Apr 22 j 19:59	1°♈10'57	-4.7m
desc. node	1005 Apr 29 j 14:30	4°♈06'37	
morning max el	1005 May 31 j 23:45	29°♈23'46	45°46'11
	1005 Jun 01 j 14:54	0°♉	
	1005 Jun 30 j 15:26	0°♊	
	1005 Jul 27 j 07:11	0°♋	
asc. node	1005 Aug 20 j 18:06	28°♋45'49	
	1005 Aug 21 j 18:55	0°♌	
	1005 Sep 15 j 12:39	0°♍	
	1005 Oct 09 j 18:40	0°♎	
	1005 Nov 02 j 18:04	0°♏	
	1005 Nov 26 j 14:39	0°♐	
morning set	1005 Nov 27 j 19:01	1°♐29'15	
desc. node	1005 Dec 10 j 07:33	17°♐15'00	
	1005 Dec 20 j 10:47	0°♑	
superior conj	1006 Jan 08 j 15:56	24°♑08'52	-1°02'33
minimum elong	1006 Jan 08 j 04:00	23°♑31'26	1°02'09
max. Earth dist.	1006 Jan 11 j 17:13	27°♑58'49	1.71328 AU
	1006 Jan 13 j 07:51	0°♒	
	1006 Feb 06 j 07:00	0°♓	
evening rise	1006 Feb 18 j 11:14	15°♓10'45	
	1006 Mar 02 j 09:35	0°♈	
	1006 Mar 26 j 17:04	0°♉	
asc. node	1006 Apr 02 j 10:55	8°♉16'08	
	1006 Apr 20 j 06:47	0°♊	
	1006 May 15 j 04:21	0°♋	
	1006 Jun 09 j 12:48	0°♌	
	1006 Jul 05 j 15:01	0°♍	
desc. node	1006 Jul 23 j 00:10	19°♍11'57	
	1006 Aug 02 j 04:21	0°♎	
evening max el	1006 Aug 15 j 19:05	13°♎42'04	46°15'47
	1006 Sep 03 j 03:14	0°♏	
greatest brilliancy	1006 Sep 25 j 05:36	13°♏03'14	-4.8m
retrograde	1006 Oct 04 j 08:32	14°♏36'01	
evening set	1006 Oct 19 j 19:45	9°♏58'17	
inferior conj	1006 Oct 24 j 23:48	6°♏56'15	-4°41'42
minimum elong	1006 Oct 25 j 09:13	6°♏41'58	4°39'07
min. Earth dist.	1006 Oct 25 j 15:31	6°♏32'25	0.26737 AU
morning rise	1006 Oct 30 j 22:10	3°♏28'26	
	1006 Nov 08 j 09:20	30°℞♎	
asc. node	1006 Nov 13 j 03:33	29°♎14'56	
direct	1006 Nov 14 j 13:34	29°♎12'27	
	1006 Nov 20 j 21:47	0°♏	
greatest brilliancy	1006 Nov 25 j 09:31	1°♏26'08	-4.9m
	1007 Jan 01 j 16:15	0°♐	
morning max el	1007 Jan 04 j 07:35	2°♐39'19	46°55'51
	1007 Jan 29 j 16:25	0°♑	
	1007 Feb 24 j 18:00	0°♒	
desc. node	1007 Mar 04 j 17:02	9°♒21'18	
	1007 Mar 22 j 02:39	0°♓	
	1007 Apr 16 j 03:44	0°♈	
	1007 May 11 j 00:43	0°♉	
	1007 Jun 04 j 18:22	0°♊	
asc. node	1007 Jun 25 j 20:28	25°♊43'55	
	1007 Jun 29 j 08:07	0°♋	
morning set	1007 Jul 05 j 11:14	7°♋31'05	
	1007 Jul 23 j 17:22	0°♌	
max. Earth dist.	1007 Aug 07 j 09:30	18°♌09'19	1.72748 AU
superior conj	1007 Aug 10 j 21:26	22°♌29'39	1°21'28
minimum elong	1007 Aug 10 j 16:39	22°♌14'49	1°21'25

	1007 Aug 16 j 22:28	0°♍	
	1007 Sep 10 j 00:44	0°♎	
evening rise	1007 Sep 17 j 01:23	8°♎45'56	
	1007 Oct 04 j 01:48	0°♏	
desc. node	1007 Oct 15 j 09:54	14°♏08'51	
	1007 Oct 28 j 02:55	0°♐	
	1007 Nov 21 j 05:07	0°♑	
	1007 Dec 15 j 10:10	0°♒	
	1008 Jan 08 j 21:55	0°♓	
	1008 Feb 03 j 00:00	0°♈	
asc. node	1008 Feb 05 j 13:04	2°♈58'46	
	1008 Feb 29 j 07:53	0°♉	
evening max el	1008 Mar 22 j 08:37	22°♉58'22	45°44'53
	1008 Mar 29 j 19:05	0°♊	
greatest brilliancy	1008 Apr 29 j 05:58	21°♊09'54	-4.7m
retrograde	1008 May 10 j 07:10	23°♊21'33	
evening set	1008 May 25 j 07:21	18°♊59'03	
desc. node	1008 May 27 j 02:30	17°♊57'54	
inferior conj	1008 May 31 j 17:44	15°♊07'33	-1°05'12
minimum elong	1008 May 31 j 15:21	15°♊11'17	1°04'30
min. Earth dist.	1008 May 31 j 18:12	15°♊06'49	0.28972 AU
morning rise	1008 Jun 06 j 23:28	11°♊22'46	
direct	1008 Jun 22 j 09:54	6°♊49'39	
greatest brilliancy	1008 Jul 02 j 19:39	8°♊46'41	-4.7m
	1008 Aug 03 j 00:26	0°♋	
morning max el	1008 Aug 10 j 10:10	6°♋55'01	45°56'03
	1008 Sep 01 j 18:46	0°♌	
asc. node	1008 Sep 17 j 05:55	17°♌16'30	
	1008 Sep 28 j 05:43	0°♍	
	1008 Oct 23 j 07:46	0°♎	
	1008 Nov 16 j 17:35	0°♏	
	1008 Dec 10 j 20:02	0°♐	
	1009 Jan 03 j 20:03	0°♑	
desc. node	1009 Jan 06 j 19:20	3°♑42'48	
	1009 Jan 27 j 20:10	0°♒	
morning set	1009 Feb 13 j 00:00	20°♒09'32	
	1009 Feb 20 j 21:40	0°♓	
	1009 Mar 17 j 01:22	0°♈	
superior conj	1009 Mar 24 j 07:47	8°♈59'52	-1°12'52
minimum elong	1009 Mar 24 j 16:55	9°♈28'09	1°12'38
max. Earth dist.	1009 Mar 27 j 14:33	13°♈03'29	1.72836 AU
	1009 Apr 10 j 07:51	0°♉	
asc. node	1009 Apr 29 j 22:52	24°♉08'57	
evening rise	1009 May 01 j 06:00	25°♉44'33	
	1009 May 04 j 17:13	0°♊	
	1009 May 29 j 05:16	0°♋	
	1009 Jun 22 j 20:05	0°♌	
	1009 Jul 17 j 14:46	0°♍	
	1009 Aug 11 j 15:42	0°♎	
desc. node	1009 Aug 19 j 12:00	9°♎18'26	
	1009 Sep 06 j 02:52	0°♏	
	1009 Oct 02 j 08:49	0°♐	
evening max el	1009 Oct 28 j 02:30	27°♐32'54	47°17'38
	1009 Oct 30 j 13:14	0°♑	
greatest brilliancy	1009 Dec 07 j 14:39	28°♑56'34	-4.9m
asc. node	1009 Dec 10 j 15:25	29°♑55'59	
	1009 Dec 10 j 21:20	0°♒	
retrograde	1009 Dec 17 j 22:07	0°♒57'59	
	1009 Dec 24 j 17:36	30°℞♑	
evening set	1010 Jan 02 j 08:31	26°♑12'20	
min. Earth dist.	1010 Jan 06 j 15:06	23°♑38'28	0.26879 AU
inferior conj	1010 Jan 07 j 13:37	23°♑03'32	6°26'06
minimum elong	1010 Jan 07 j 03:20	23°♑19'30	6°23'52
morning rise	1010 Jan 11 j 22:41	20°♑24'54	
direct	1010 Jan 28 j 00:53	15°♑21'35	
greatest brilliancy	1010 Feb 06 j 00:42	16°♑53'38	-4.9m
	1010 Feb 27 j 22:09	0°♒	
morning max el	1010 Mar 18 j 16:39	16°♒54'28	46°21'00
	1010 Mar 31 j 13:58	0°♓	
desc. node	1010 Apr 01 j 04:50	0°♓38'59	
	1010 Apr 28 j 01:13	0°♈	
	1010 May 24 j 05:14	0°♉	
	1010 Jun 18 j 17:28	0°♊	
	1010 Jul 13 j 18:30	0°♋	
asc. node	1010 Jul 23 j 08:13	11°♋36'02	
	1010 Aug 07 j 09:48	0°♌	
	1010 Aug 31 j 16:50	0°♍	
morning set	1010 Sep 12 j 11:58	14°♍41'22	
	1010 Sep 24 j 17:57	0°♎	
	1010 Oct 18 j 15:48	0°♏	
max. Earth dist.	1010 Oct 19 j 04:53	0°♏41'07	1.71314 AU
superior conj	1010 Oct 20 j 23:54	2°♏56'16	0°49'05
minimum elong	1010 Oct 21 j 10:00	3°♏28'00	0°48'40
desc. node	1010 Nov 11 j 21:49	0°♐29'12	
	1010 Nov 11 j 12:32	0°♐	
evening rise	1010 Dec 01 j 01:16	24°♐32'48	
	1010 Dec 05 j 09:28	0°♑	
	1010 Dec 29 j 07:39	0°♒	
	1011 Jan 22 j 08:50	0°♓	
	1011 Feb 15 j 15:50	0°♈	
asc. node	1011 Mar 05 j 01:02	21°♈10'37	
	1011 Mar 12 j 08:39	0°♉	
	1011 Apr 06 j 16:57	0°♊	
	1011 May 03 j 03:31	0°♋	
	1011 May 31 j 23:41	0°♌	
evening max el	1011 Jun 01 j 21:49	0°♌53'04	45°22'12
desc. node	1011 Jun 24 j 14:23	20°♌04'24	
greatest brilliancy	1011 Jul 10 j 13:18	28°♌41'38	-4.7m
	1011 Jul 15 j 11:13	0°♍	
retrograde	1011 Jul 20 j 11:34	0°♍28'13	
	1011 Jul 25 j 09:17	30°℞♌	
evening set	1011 Aug 06 j 23:45	24°♌47'00	
inferior conj	1011 Aug 10 j 19:44	22°♌27'19	-8°21'06
minimum elong	1011 Aug 10 j 14:07	22°♌36'00	8°20'39
min. Earth dist.	1011 Aug 11 j 05:58	22°♌11'27	0.28536 AU
morning rise	1011 Aug 14 j 04:13	20°♌23'52	
direct	1011 Sep 01 j 05:56	14°♌16'03	
greatest brilliancy	1011 Sep 12 j 05:50	16°♌28'00	-4.8m
	1011 Oct 03 j 14:30	0°♍	
asc. node	1011 Oct 15 j 17:48	10°♍53'45	
morning max el	1011 Oct 21 j 11:04	16°♍31'37	46°37'51
	1011 Nov 03 j 07:21	0°♎	
	1011 Nov 29 j 17:43	0°♏	
	1011 Dec 24 j 20:31	0°♐	
	1012 Jan 18 j 11:10	0°♑	
desc. node	1012 Feb 04 j 07:09	20°♑39'56	
	1012 Feb 11 j 21:21	0°♒	
	1012 Mar 07 j 06:23	0°♓	
	1012 Mar 31 j 15:47	0°♈	
	1012 Apr 25 j 02:02	0°♉	
morning set	1012 Apr 25 j 14:51	0°♉39'19	
	1012 May 19 j 12:45	0°♊	
asc. node	1012 May 27 j 10:42	9°♊43'03	
max. Earth dist.	1012 May 31 j 08:59	14°♊32'29	1.73628 AU
superior conj	1012 Jun 01 j 08:31	15°♊44'45	0°11'39
minimum elong	1012 Jun 01 j 06:10	15°♊37'29	0°11'31
behind sun begin	1012 May 31 j 14:36	14°♊49'43	
behind sun end	1012 Jun 01 j 21:43	16°♊25'16	
	1012 Jun 12 j 23:00	0°♋	
evening rise	1012 Jul 07 j 04:57	29°♋50'09	
	1012 Jul 07 j 08:09	0°♌	

	1012 Jul 31 j 16:30	0°♍	
	1012 Aug 25 j 01:11	0°♎	
desc. node	1012 Sep 16 j 00:02	26°♎57'33	
	1012 Sep 18 j 11:34	0°♏	
	1012 Oct 13 j 00:59	0°♐	
	1012 Nov 06 j 19:56	0°♑	
	1012 Dec 02 j 03:16	0°♒	
	1012 Dec 28 j 18:19	0°♓	
asc. node	1013 Jan 07 j 03:17	9°♓50'15	
evening max el	1013 Jan 07 j 18:33	10°♓29'07	46°56'55
	1013 Jan 28 j 23:21	0°♈	
greatest brilliancy	1013 Feb 16 j 21:10	11°♈34'30	-4.8m
retrograde	1013 Feb 27 j 09:43	13°♈40'15	
evening set	1013 Mar 16 j 19:59	7°♈46'40	
inferior conj	1013 Mar 20 j 15:08	5°♈24'39	7°37'10
minimum elong	1013 Mar 20 j 23:22	5°♈11'38	7°36'01
min. Earth dist.	1013 Mar 20 j 11:26	5°♈30'31	0.28471 AU
morning rise	1013 Mar 25 j 02:59	2°♈38'01	
	1013 Mar 30 j 02:04	30°℞♓	
direct	1013 Apr 10 j 18:56	27°♓15'08	
greatest brilliancy	1013 Apr 20 j 10:20	28°♓57'01	-4.7m
	1013 Apr 23 j 05:02	0°♈	
desc. node	1013 Apr 28 j 16:38	2°♈40'19	
morning max el	1013 May 29 j 16:00	27°♈13'44	45°46'42
	1013 Jun 01 j 12:58	0°♉	
	1013 Jun 30 j 07:07	0°♊	
	1013 Jul 26 j 20:34	0°♋	
asc. node	1013 Aug 19 j 20:09	28°♋15'05	
	1013 Aug 21 j 07:13	0°♌	
	1013 Sep 15 j 00:23	0°♍	
	1013 Oct 09 j 06:08	0°♎	
	1013 Nov 02 j 05:24	0°♏	
morning set	1013 Nov 25 j 05:26	28°♏55'29	
	1013 Nov 26 j 01:56	0°♐	
desc. node	1013 Dec 09 j 09:30	16°♐45'40	
	1013 Dec 19 j 22:02	0°♑	
superior conj	1014 Jan 06 j 01:38	21°♑33'22	-0°59'45
minimum elong	1014 Jan 05 j 13:41	20°♑55'50	0°59'19
max. Earth dist.	1014 Jan 08 j 23:26	25°♑12'30	1.71295 AU
	1014 Jan 12 j 19:04	0°♒	
	1014 Feb 05 j 18:12	0°♓	
evening rise	1014 Feb 15 j 23:09	12°♓43'39	
	1014 Mar 01 j 20:48	0°♈	
	1014 Mar 26 j 04:21	0°♉	
asc. node	1014 Apr 01 j 13:06	7°♉48'07	
	1014 Apr 19 j 18:18	0°♊	
	1014 May 14 j 16:24	0°♋	
	1014 Jun 09 j 01:53	0°♌	
	1014 Jul 05 j 06:04	0°♍	
desc. node	1014 Jul 22 j 02:07	18°♍30'28	
	1014 Aug 01 j 23:59	0°♎	
evening max el	1014 Aug 13 j 09:33	11°♎23'40	46°13'14
	1014 Sep 03 j 18:55	0°♏	
greatest brilliancy	1014 Sep 22 j 17:39	10°♏36'50	-4.8m
retrograde	1014 Oct 01 j 21:10	12°♏09'28	
evening set	1014 Oct 17 j 11:11	7°♏27'34	
inferior conj	1014 Oct 22 j 12:17	4°♏29'16	-5°01'34
minimum elong	1014 Oct 22 j 22:07	4°♏14'22	4°58'58
min. Earth dist.	1014 Oct 23 j 04:37	4°♏04'30	0.26789 AU
morning rise	1014 Oct 28 j 08:36	1°♏04'15	
	1014 Oct 30 j 10:32	30°℞♎	
direct	1014 Nov 12 j 03:22	26°♎44'50	
asc. node	1014 Nov 12 j 05:32	26°♎44'50	
greatest brilliancy	1014 Nov 22 j 23:00	28°♎58'29	-4.9m
	1014 Nov 25 j 08:26	0°♏	
	1015 Jan 01 j 15:55	0°♐	
morning max el	1015 Jan 01 j 22:00	0°♐15'26	46°56'05
	1015 Jan 29 j 09:17	0°♑	
	1015 Feb 24 j 08:18	0°♒	
desc. node	1015 Mar 03 j 19:06	8°♒46'44	
	1015 Mar 21 j 15:36	0°♓	
	1015 Apr 15 j 15:51	0°♈	
	1015 May 10 j 12:15	0°♉	
	1015 Jun 04 j 05:32	0°♊	
asc. node	1015 Jun 24 j 22:27	25°♊16'23	
	1015 Jun 28 j 19:04	0°♋	
morning set	1015 Jul 03 j 05:30	5°♋26'17	
	1015 Jul 23 j 04:17	0°♌	
max. Earth dist.	1015 Aug 05 j 02:24	15°♌59'08	1.72799 AU
superior conj	1015 Aug 08 j 15:06	20°♌21'36	1°20'32
minimum elong	1015 Aug 08 j 09:46	20°♌05'06	1°20'28
	1015 Aug 16 j 09:26	0°♍	
	1015 Sep 09 j 11:51	0°♎	
evening rise	1015 Sep 14 j 16:09	6°♎27'30	
	1015 Oct 03 j 13:06	0°♏	
desc. node	1015 Oct 14 j 12:00	13°♏39'49	
	1015 Oct 27 j 14:27	0°♐	
	1015 Nov 20 j 16:57	0°♑	
	1015 Dec 14 j 22:24	0°♒	
	1016 Jan 08 j 10:48	0°♓	
	1016 Feb 02 j 14:05	0°♈	
asc. node	1016 Feb 04 j 15:07	2°♈23'12	
	1016 Feb 29 j 00:41	0°♉	
evening max el	1016 Mar 20 j 00:52	20°♉46'56	45°46'52
	1016 Mar 29 j 21:24	0°♊	
greatest brilliancy	1016 Apr 26 j 23:13	19°♊01'52	-4.7m
retrograde	1016 May 07 j 23:29	21°♊12'39	
evening set	1016 May 23 j 00:16	16°♊50'03	
desc. node	1016 May 26 j 04:27	14°♊59'32	
inferior conj	1016 May 29 j 10:15	12°♊58'45	-0°45'42
minimum elong	1016 May 29 j 08:35	13°♊01'23	0°45'12
min. Earth dist.	1016 May 29 j 10:55	12°♊57'43	0.28963 AU
morning rise	1016 Jun 04 j 17:01	9°♊12'10	
direct	1016 Jun 20 j 02:27	4°♊41'08	
greatest brilliancy	1016 Jun 30 j 11:08	6°♊37'00	-4.7m
	1016 Aug 03 j 01:36	0°♋	
morning max el	1016 Aug 08 j 01:13	4°♋42'08	45°54'53
	1016 Sep 01 j 11:14	0°♌	
asc. node	1016 Sep 16 j 08:08	16°♌40'54	
	1016 Sep 27 j 19:34	0°♍	
	1016 Oct 22 j 20:28	0°♎	
	1016 Nov 16 j 05:41	0°♏	
	1016 Dec 10 j 07:47	0°♐	
	1017 Jan 03 j 07:34	0°♑	
desc. node	1017 Jan 05 j 21:22	3°♑13'17	
	1017 Jan 27 j 07:30	0°♒	
morning set	1017 Feb 10 j 11:32	17°♒41'00	
	1017 Feb 20 j 08:49	0°♓	
	1017 Mar 16 j 12:24	0°♈	
superior conj	1017 Mar 21 j 22:26	6°♈42'36	-1°14'40
minimum elong	1017 Mar 22 j 07:14	7°♈09'49	1°14'27
max. Earth dist.	1017 Mar 25 j 09:12	10°♈58'38	1.72784 AU
	1017 Apr 09 j 18:50	0°♉	
evening rise	1017 Apr 28 j 23:01	23°♉35'38	
asc. node	1017 Apr 29 j 00:54	23°♉41'25	
	1017 May 04 j 04:14	0°♊	
	1017 May 28 j 16:25	0°♋	
	1017 Jun 22 j 07:31	0°♌	
	1017 Jul 17 j 02:43	0°♍	
	1017 Aug 11 j 04:31	0°♎	
desc. node	1017 Aug 18 j 14:07	8°♎45'43	

	1017 Sep 05 j 17:11	0°♏	
	1017 Oct 02 j 02:00	0°♐	
evening max el	1017 Oct 25 j 15:51	25°♐06'41	47°16'24
	1017 Oct 30 j 14:07	0°♑	
greatest brilliancy	1017 Dec 05 j 05:21	26°♑29'48	-4.9m
asc. node	1017 Dec 09 j 17:27	27°♑50'42	
retrograde	1017 Dec 15 j 10:47	28°♑29'28	
evening set	1017 Dec 30 j 18:14	23°♑49'22	
min. Earth dist.	1018 Jan 04 j 04:56	21°♑09'53	0.26825 AU
inferior conj	1018 Jan 05 j 02:31	20°♑36'26	6°09'42
minimum elong	1018 Jan 04 j 16:13	20°♑52'24	6°07'20
morning rise	1018 Jan 09 j 14:40	17°♑53'14	
direct	1018 Jan 25 j 12:46	12°♑55'14	
greatest brilliancy	1018 Feb 03 j 14:39	14°♑28'37	-4.9m
	1018 Feb 28 j 09:29	0°♒	
morning max el	1018 Mar 16 j 04:50	14°♒29'18	46°22'34
desc. node	1018 Mar 31 j 07:00	29°♒54'50	
	1018 Mar 31 j 08:58	0°♓	
	1018 Apr 27 j 16:06	0°♈	
	1018 May 23 j 18:16	0°♉	
	1018 Jun 18 j 05:32	0°♊	
	1018 Jul 13 j 05:58	0°♋	
asc. node	1018 Jul 22 j 10:21	11°♋08'10	
	1018 Aug 06 j 20:56	0°♌	
	1018 Aug 31 j 03:48	0°♍	
morning set	1018 Sep 10 j 03:27	12°♍25'47	
	1018 Sep 24 j 04:52	0°♎	
max. Earth dist.	1018 Oct 16 j 14:47	28°♎06'52	1.71356 AU
	1018 Oct 18 j 02:48	0°♏	
superior conj	1018 Oct 18 j 12:27	0°♏30'20	0°52'04
minimum elong	1018 Oct 18 j 22:47	1°♏02'49	0°51'41
desc. node	1018 Nov 10 j 23:47	0°♐00'28	
	1018 Nov 10 j 23:38	0°♐	
evening rise	1018 Nov 28 j 11:22	21°♐58'42	
	1018 Dec 04 j 20:40	0°♑	
	1018 Dec 28 j 18:58	0°♒	
	1019 Jan 21 j 20:18	0°♓	
	1019 Feb 15 j 03:35	0°♈	
asc. node	1019 Mar 04 j 03:12	20°♈40'39	
	1019 Mar 11 j 20:56	0°♉	
	1019 Apr 06 j 06:19	0°♊	
	1019 May 02 j 19:17	0°♋	
evening max el	1019 May 30 j 12:23	28°♋39'02	45°21'47
	1019 May 31 j 22:28	0°♌	
desc. node	1019 Jun 23 j 16:26	18°♌52'12	
greatest brilliancy	1019 Jul 08 j 02:19	26°♌26'58	-4.7m
retrograde	1019 Jul 18 j 02:44	28°♌15'34	
evening set	1019 Aug 04 j 11:42	22°♌38'07	
inferior conj	1019 Aug 08 j 10:57	20°♌13'48	-8°14'34
minimum elong	1019 Aug 08 j 04:40	20°♌23'31	8°13'58
min. Earth dist.	1019 Aug 08 j 20:25	19°♌59'10	0.28576 AU
morning rise	1019 Aug 11 j 21:23	18°♌07'37	
direct	1019 Aug 29 j 21:23	12°♌01'48	
greatest brilliancy	1019 Sep 09 j 21:28	14°♌13'59	-4.8m
	1019 Oct 03 j 22:24	0°♍	
asc. node	1019 Oct 14 j 19:47	10°♍00'32	
morning max el	1019 Oct 19 j 02:16	14°♍13'53	46°36'32
	1019 Nov 03 j 01:26	0°♎	
	1019 Nov 29 j 08:22	0°♏	
	1019 Dec 24 j 09:41	0°♐	
	1020 Jan 17 j 23:31	0°♑	
desc. node	1020 Feb 03 j 09:17	20°♑09'44	
	1020 Feb 11 j 09:08	0°♒	
	1020 Mar 06 j 17:46	0°♓	
	1020 Mar 31 j 02:52	0°♈	
morning set	1020 Apr 23 j 07:45	28°♈30'31	
	1020 Apr 24 j 12:54	0°♉	
	1020 May 18 j 23:29	0°♊	
asc. node	1020 May 26 j 12:39	9°♊16'08	
max. Earth dist.	1020 May 29 j 07:11	12°♊40'22	1.73631 AU
superior conj	1020 May 30 j 02:33	13°♊39'49	0°08'30
minimum elong	1020 May 30 j 00:48	13°♊34'29	0°08'25
behind sun begin	1020 May 29 j 05:33	12°♊35'21	
behind sun end	1020 May 30 j 20:03	14°♊33'36	
	1020 Jun 12 j 09:42	0°♋	
evening rise	1020 Jul 04 j 23:48	27°♋47'12	
	1020 Jul 06 j 18:57	0°♌	
	1020 Jul 31 j 03:30	0°♍	
	1020 Aug 24 j 12:30	0°♎	
desc. node	1020 Sep 15 j 02:08	26°♎28'13	
	1020 Sep 17 j 23:19	0°♏	
	1020 Oct 12 j 13:20	0°♐	
	1020 Nov 06 j 09:14	0°♑	
	1020 Dec 01 j 18:16	0°♒	
	1020 Dec 28 j 13:22	0°♓	
evening max el	1021 Jan 05 j 09:56	8°♓11'16	46°58'58
asc. node	1021 Jan 06 j 05:21	9°♓00'27	
	1021 Jan 29 j 13:28	0°♈	
greatest brilliancy	1021 Feb 14 j 12:34	9°♈18'39	-4.8m
retrograde	1021 Feb 25 j 02:09	11°♈25'18	
evening set	1021 Mar 14 j 14:02	5°♈27'44	
inferior conj	1021 Mar 18 j 06:37	3°♈09'43	7°47'00
minimum elong	1021 Mar 18 j 14:25	2°♈57'23	7°45'59
min. Earth dist.	1021 Mar 18 j 01:50	3°♈17'16	0.28438 AU
morning rise	1021 Mar 22 j 15:03	0°♈28'26	
	1021 Mar 23 j 10:32	30°℞♓	
direct	1021 Apr 08 j 10:02	25°♓00'50	
greatest brilliancy	1021 Apr 17 j 23:55	26°♓41'53	-4.8m
	1021 Apr 25 j 11:56	0°♈	
desc. node	1021 Apr 27 j 18:34	1°♈16'32	
morning max el	1021 May 27 j 08:30	25°♈04'36	45°47'15
	1021 Jun 01 j 10:04	0°♉	
	1021 Jun 29 j 22:21	0°♊	
	1021 Jul 26 j 09:36	0°♋	
asc. node	1021 Aug 18 j 22:15	27°♋45'21	
	1021 Aug 20 j 19:12	0°♌	
	1021 Sep 14 j 11:50	0°♍	
	1021 Oct 08 j 17:19	0°♎	
greatest brilliancy	1021 Oct 24 j 05:48	19°♎24'20	-3.9m
	1021 Nov 01 j 16:26	0°♏	
morning set	1021 Nov 22 j 16:24	26°♏24'34	
	1021 Nov 25 j 12:52	0°♐	
desc. node	1021 Dec 08 j 11:34	16°♐17'50	
	1021 Dec 19 j 08:55	0°♑	
superior conj	1022 Jan 03 j 11:35	18°♑59'46	-0°56'49
minimum elong	1022 Jan 02 j 23:43	18°♑22'30	0°56'22
max. Earth dist.	1022 Jan 06 j 09:38	22°♑39'45	1.71264 AU
	1022 Jan 12 j 05:55	0°♒	
	1022 Feb 05 j 05:03	0°♓	
evening rise	1022 Feb 13 j 11:04	10°♓17'31	
	1022 Mar 01 j 07:41	0°♈	
	1022 Mar 25 j 15:21	0°♉	
asc. node	1022 Mar 31 j 15:03	7°♉20'13	
	1022 Apr 19 j 05:35	0°♊	
	1022 May 14 j 04:15	0°♋	
	1022 Jun 08 j 14:47	0°♌	
	1022 Jul 04 j 21:02	0°♍	
desc. node	1022 Jul 21 j 04:17	17°♍49'53	
	1022 Aug 01 j 19:55	0°♎	
evening max el	1022 Aug 10 j 23:50	9°♎05'42	46°10'37
	1022 Sep 04 j 15:23	0°♏	

greatest brilliancy	1022 Sep 20 j 06:04	8°♏11'53	-4.8m
retrograde	1022 Sep 29 j 09:14	9°♏43'43	
evening set	1022 Oct 15 j 02:41	4°♏57'48	
inferior conj	1022 Oct 20 j 00:45	2°♏03'21	-5°20'57
minimum elong	1022 Oct 20 j 10:53	1°♏47'57	5°18'21
min. Earth dist.	1022 Oct 20 j 17:51	1°♏37'21	0.26839 AU
	1022 Oct 23 j 10:55	30°℞♎	
morning rise	1022 Oct 25 j 18:39	28°♎41'13	
direct	1022 Nov 09 j 16:52	24°♎18'17	
asc. node	1022 Nov 11 j 07:33	24°♎21'26	
greatest brilliancy	1022 Nov 20 j 12:35	26°♎31'54	-4.9m
	1022 Nov 27 j 13:34	0°♏	
morning max el	1022 Dec 30 j 11:29	27°♏50'21	46°56'30
	1023 Jan 01 j 14:08	0°♐	
	1023 Jan 29 j 01:22	0°♑	
	1023 Feb 23 j 21:59	0°♒	
desc. node	1023 Mar 02 j 21:13	8°♒13'50	
	1023 Mar 21 j 04:01	0°♓	
	1023 Apr 15 j 03:30	0°♈	
	1023 May 09 j 23:25	0°♉	
	1023 Jun 03 j 16:22	0°♊	
asc. node	1023 Jun 24 j 00:35	24°♊50'13	
	1023 Jun 28 j 05:44	0°♋	
morning set	1023 Jun 30 j 23:29	3°♋21'37	
	1023 Jul 22 j 14:52	0°♌	
max. Earth dist.	1023 Aug 02 j 18:15	13°♌46'45	1.72848 AU
superior conj	1023 Aug 06 j 08:35	18°♌14'11	1°19'29
minimum elong	1023 Aug 06 j 02:45	17°♌56'05	1°19'23
	1023 Aug 15 j 20:05	0°♍	
	1023 Sep 08 j 22:38	0°♎	
evening rise	1023 Sep 12 j 06:55	4°♎10'11	
	1023 Oct 03 j 00:05	0°♏	
desc. node	1023 Oct 13 j 13:57	13°♏11'14	
	1023 Oct 27 j 01:42	0°♐	
	1023 Nov 20 j 04:30	0°♑	
	1023 Dec 14 j 10:19	0°♒	
	1024 Jan 07 j 23:19	0°♓	
	1024 Feb 02 j 03:47	0°♈	
asc. node	1024 Feb 03 j 17:17	1°♈49'15	
	1024 Feb 28 j 17:16	0°♉	
evening max el	1024 Mar 17 j 16:15	18°♉34'42	45°48'47
	1024 Mar 30 j 00:38	0°♊	
greatest brilliancy	1024 Apr 24 j 16:37	16°♊55'13	-4.7m
retrograde	1024 May 05 j 15:30	19°♊05'10	
evening set	1024 May 20 j 17:23	14°♊41'56	
desc. node	1024 May 25 j 06:32	12°♊00'39	
inferior conj	1024 May 27 j 02:52	10°♊51'13	-0°26'02
minimum elong	1024 May 27 j 01:54	10°♊52'44	0°25'46
min. Earth dist.	1024 May 27 j 04:00	10°♊49'26	0.28960 AU
morning rise	1024 Jun 02 j 10:30	7°♊02'58	
direct	1024 Jun 17 j 18:41	2°♊33'40	
greatest brilliancy	1024 Jun 28 j 03:27	4°♊29'08	-4.7m
	1024 Aug 03 j 01:13	0°♋	
morning max el	1024 Aug 05 j 15:57	2°♋29'17	45°53'46
	1024 Sep 01 j 03:06	0°♌	
asc. node	1024 Sep 15 j 10:07	16°♌05'48	
	1024 Sep 27 j 08:58	0°♍	
	1024 Oct 22 j 08:47	0°♎	
	1024 Nov 15 j 17:25	0°♏	
	1024 Dec 09 j 19:12	0°♐	
	1025 Jan 02 j 18:46	0°♑	
desc. node	1025 Jan 04 j 23:28	2°♑44'54	
	1025 Jan 26 j 18:29	0°♒	
morning set	1025 Feb 07 j 23:08	15°♒13'35	
	1025 Feb 19 j 19:37	0°♓	
	1025 Mar 15 j 23:03	0°♈	
superior conj	1025 Mar 19 j 13:21	4°♈27'18	-1°16'20
minimum elong	1025 Mar 19 j 21:44	4°♈53'15	1°16'08
max. Earth dist.	1025 Mar 23 j 02:52	8°♈51'56	1.72727 AU
	1025 Apr 09 j 05:25	0°♉	
evening rise	1025 Apr 26 j 16:14	21°♉28'30	
asc. node	1025 Apr 28 j 02:54	23°♉14'57	
	1025 May 03 j 14:52	0°♊	
	1025 May 28 j 03:14	0°♋	
	1025 Jun 21 j 18:40	0°♌	
	1025 Jul 16 j 14:27	0°♍	
	1025 Aug 10 j 17:11	0°♎	
desc. node	1025 Aug 17 j 16:11	8°♎13'23	
	1025 Sep 05 j 07:25	0°♏	
	1025 Oct 01 j 19:18	0°♐	
evening max el	1025 Oct 23 j 04:34	22°♐39'43	47°15'09
	1025 Oct 30 j 16:00	0°♑	
greatest brilliancy	1025 Dec 02 j 19:43	24°♑03'03	-4.9m
asc. node	1025 Dec 08 j 19:35	25°♑40'46	
retrograde	1025 Dec 12 j 23:23	26°♑01'31	
evening set	1025 Dec 28 j 03:56	21°♑26'15	
min. Earth dist.	1026 Jan 01 j 18:42	18°♑41'28	0.26773 AU
inferior conj	1026 Jan 02 j 15:17	18°♑09'38	5°52'22
minimum elong	1026 Jan 02 j 05:04	18°♑25'27	5°49'55
morning rise	1026 Jan 07 j 06:36	15°♑22'05	
direct	1026 Jan 23 j 00:30	10°♑28'52	
greatest brilliancy	1026 Feb 01 j 04:44	12°♑04'07	-4.9m
	1026 Feb 28 j 17:35	0°♒	
morning max el	1026 Mar 13 j 17:45	12°♒06'28	46°24'24
desc. node	1026 Mar 30 j 08:53	29°♒11'19	
	1026 Mar 31 j 03:09	0°♓	
	1026 Apr 27 j 06:27	0°♈	
	1026 May 23 j 06:54	0°♉	
	1026 Jun 17 j 17:14	0°♊	
	1026 Jul 12 j 17:09	0°♋	
asc. node	1026 Jul 21 j 12:25	10°♋40'49	
	1026 Aug 06 j 07:51	0°♌	
	1026 Aug 30 j 14:36	0°♍	
morning set	1026 Sep 07 j 18:56	10°♍10'44	
	1026 Sep 23 j 15:41	0°♎	
max. Earth dist.	1026 Oct 14 j 02:26	25°♎38'35	1.71395 AU
superior conj	1026 Oct 16 j 00:58	28°♎04'44	0°54'59
minimum elong	1026 Oct 16 j 11:27	28°♎37'41	0°54'34
	1026 Oct 17 j 13:40	0°♏	
desc. node	1026 Nov 10 j 01:51	29°♏32'29	
	1026 Nov 10 j 10:36	0°♐	
evening rise	1026 Nov 25 j 21:28	19°♐25'04	
	1026 Dec 04 j 07:45	0°♑	
	1026 Dec 28 j 06:09	0°♒	
	1027 Jan 21 j 07:40	0°♓	
	1027 Feb 14 j 15:15	0°♈	
asc. node	1027 Mar 03 j 05:09	20°♈10'23	
	1027 Mar 11 j 09:08	0°♉	
	1027 Apr 05 j 19:36	0°♊	
	1027 May 02 j 11:02	0°♋	
evening max el	1027 May 28 j 03:51	26°♋28'05	45°21'30
	1027 May 31 j 21:55	0°♌	
desc. node	1027 Jun 22 j 18:31	17°♌38'50	
greatest brilliancy	1027 Jul 05 j 14:57	24°♌13'00	-4.7m
retrograde	1027 Jul 15 j 18:16	26°♌03'58	
evening set	1027 Aug 01 j 23:45	20°♌30'23	
inferior conj	1027 Aug 06 j 02:20	18°♌01'11	-8°07'14
minimum elong	1027 Aug 05 j 19:28	18°♌11'48	8°06'31
min. Earth dist.	1027 Aug 06 j 10:41	17°♌48'17	0.28619 AU
morning rise	1027 Aug 09 j 14:56	15°♌51'54	
direct	1027 Aug 27 j 13:39	9°♌48'32	
greatest brilliancy	1027 Sep 07 j 12:48	12°♌00'15	-4.8m

	1027 Oct 04 j 03:58	0°♍	
asc. node	1027 Oct 13 j 21:47	9°♍08'21	
morning max el	1027 Oct 16 j 18:12	11°♍58'14	46°35'03
	1027 Nov 02 j 19:10	0°♎	
	1027 Nov 28 j 22:54	0°♏	
	1027 Dec 23 j 22:48	0°♐	
	1028 Jan 17 j 11:48	0°♑	
desc. node	1028 Feb 02 j 11:20	19°♑39'24	
	1028 Feb 10 j 20:53	0°♒	
	1028 Mar 06 j 05:09	0°♓	
	1028 Mar 30 j 13:57	0°♈	
morning set	1028 Apr 21 j 00:47	26°♈21'58	
	1028 Apr 23 j 23:47	0°♉	
	1028 May 18 j 10:13	0°♊	
asc. node	1028 May 25 j 14:50	8°♊49'55	
superior conj	1028 May 27 j 20:48	11°♊35'36	0°05'22
minimum elong	1028 May 27 j 19:41	11°♊32'13	0°05'19
behind sun begin	1028 May 26 j 22:18	10°♊26'32	
behind sun end	1028 May 28 j 17:05	12°♊37'55	
max. Earth dist.	1028 May 27 j 06:48	10°♊52'36	1.73626 AU
	1028 Jun 11 j 20:23	0°♋	
evening rise	1028 Jul 02 j 19:01	25°♋45'33	
	1028 Jul 06 j 05:43	0°♌	
	1028 Jul 30 j 14:31	0°♍	
	1028 Aug 23 j 23:53	0°♎	
desc. node	1028 Sep 14 j 04:05	25°♎58'00	
	1028 Sep 17 j 11:12	0°♏	
	1028 Oct 12 j 01:55	0°♐	
	1028 Nov 05 j 22:51	0°♑	
	1028 Dec 01 j 09:43	0°♒	
	1028 Dec 28 j 09:12	0°♓	
evening max el	1029 Jan 03 j 01:56	5°♓54'14	47°01'04
asc. node	1029 Jan 05 j 07:26	8°♓09'16	
	1029 Jan 30 j 08:48	0°♈	
greatest brilliancy	1029 Feb 12 j 04:02	7°♈02'18	-4.8m
retrograde	1029 Feb 22 j 18:29	9°♈09'28	
evening set	1029 Mar 12 j 08:01	3°♈08'18	
inferior conj	1029 Mar 15 j 22:03	0°♈54'02	7°56'10
minimum elong	1029 Mar 16 j 05:23	0°♈42'27	7°55'17
min. Earth dist.	1029 Mar 15 j 16:03	1°♈03'30	0.28399 AU
	1029 Mar 17 j 08:22	30°℞♓	
morning rise	1029 Mar 20 j 03:02	28°♓18'00	
direct	1029 Apr 06 j 01:27	22°♓45'58	
greatest brilliancy	1029 Apr 15 j 13:06	24°♓25'39	-4.8m
desc. node	1029 Apr 26 j 20:42	29°♓55'11	
	1029 Apr 26 j 23:49	0°♈	
morning max el	1029 May 25 j 00:42	22°♈54'21	45°47'55
	1029 Jun 01 j 06:37	0°♉	
	1029 Jun 29 j 13:29	0°♊	
	1029 Jul 25 j 22:38	0°♋	
asc. node	1029 Aug 18 j 00:16	27°♋15'10	
	1029 Aug 20 j 07:13	0°♌	
	1029 Sep 13 j 23:23	0°♍	
	1029 Oct 08 j 04:38	0°♎	
greatest brilliancy	1029 Oct 27 j 19:35	24°♎33'19	-3.9m
	1029 Nov 01 j 03:40	0°♏	
morning set	1029 Nov 20 j 03:15	23°♏52'27	
	1029 Nov 25 j 00:04	0°♐	
desc. node	1029 Dec 07 j 13:44	15°♐49'21	
	1029 Dec 18 j 20:06	0°♑	
superior conj	1029 Dec 31 j 21:05	16°♑23'41	-0°53'44
minimum elong	1029 Dec 31 j 09:25	15°♑47'04	0°53'17
max. Earth dist.	1030 Jan 03 j 18:59	20°♑03'16	1.71231 AU
	1030 Jan 11 j 17:05	0°♒	
	1030 Feb 04 j 16:12	0°♓	
evening rise	1030 Feb 10 j 22:25	7°♓48'35	
	1030 Feb 28 j 18:52	0°♈	
	1030 Mar 25 j 02:39	0°♉	
asc. node	1030 Mar 30 j 17:06	6°♉51'44	
	1030 Apr 18 j 17:11	0°♊	
	1030 May 13 j 16:26	0°♋	
	1030 Jun 08 j 04:03	0°♌	
	1030 Jul 04 j 12:26	0°♍	
desc. node	1030 Jul 20 j 06:20	17°♍08'05	
	1030 Aug 01 j 16:39	0°♎	
evening max el	1030 Aug 08 j 13:26	6°♎45'52	46°08'05
	1030 Sep 05 j 19:19	0°♏	
greatest brilliancy	1030 Sep 17 j 19:03	5°♏47'52	-4.8m
retrograde	1030 Sep 26 j 20:59	7°♏18'34	
evening set	1030 Oct 12 j 18:30	2°♏28'24	
	1030 Oct 16 j 23:03	30°℞♎	
inferior conj	1030 Oct 17 j 13:31	29°♎37'58	-5°39'23
minimum elong	1030 Oct 17 j 23:54	29°♎22'10	5°36'49
min. Earth dist.	1030 Oct 18 j 07:35	29°♎10'27	0.26897 AU
morning rise	1030 Oct 23 j 04:49	26°♎18'51	
direct	1030 Nov 07 j 06:15	21°♎52'00	
asc. node	1030 Nov 10 j 09:43	22°♎03'51	
greatest brilliancy	1030 Nov 18 j 03:02	24°♎06'06	-4.9m
	1030 Nov 29 j 00:43	0°♏	
morning max el	1030 Dec 28 j 00:11	25°♏21'57	46°56'35
	1031 Jan 01 j 11:58	0°♐	
	1031 Jan 28 j 17:40	0°♑	
	1031 Feb 23 j 12:02	0°♒	
desc. node	1031 Mar 01 j 23:11	7°♒39'14	
	1031 Mar 20 j 16:50	0°♓	
	1031 Apr 14 j 15:32	0°♈	
	1031 May 09 j 10:55	0°♉	
	1031 Jun 03 j 03:32	0°♊	
asc. node	1031 Jun 23 j 02:38	24°♊22'44	
	1031 Jun 27 j 16:43	0°♋	
morning set	1031 Jun 28 j 17:33	1°♋16'08	
	1031 Jul 22 j 01:48	0°♌	
max. Earth dist.	1031 Jul 31 j 11:02	11°♌36'20	1.72894 AU
superior conj	1031 Aug 04 j 02:29	16°♌07'06	1°18'19
minimum elong	1031 Aug 03 j 20:09	15°♌47'28	1°18'12
	1031 Aug 15 j 07:03	0°♍	
	1031 Sep 08 j 09:41	0°♎	
evening rise	1031 Sep 09 j 22:21	1°♎54'11	
	1031 Oct 02 j 11:20	0°♏	
desc. node	1031 Oct 12 j 16:04	12°♏42'26	
	1031 Oct 26 j 13:13	0°♐	
	1031 Nov 19 j 16:22	0°♑	
	1031 Dec 13 j 22:39	0°♒	
	1032 Jan 07 j 12:20	0°♓	
	1032 Feb 01 j 18:09	0°♈	
asc. node	1032 Feb 02 j 19:13	1°♈12'48	
	1032 Feb 28 j 10:50	0°♉	
evening max el	1032 Mar 15 j 06:40	16°♉18'12	45°50'54
	1032 Mar 30 j 06:35	0°♊	
greatest brilliancy	1032 Apr 22 j 09:45	14°♊46'20	-4.7m
retrograde	1032 May 03 j 07:34	16°♊55'55	
evening set	1032 May 18 j 10:28	12°♊31'32	
desc. node	1032 May 24 j 08:39	8°♊58'39	
inferior conj	1032 May 24 j 19:20	8°♊41'51	-0°06'17
minimum elong	1032 May 24 j 19:06	8°♊42'13	0°06'13
transit middle	1032 May 24 j 19:06	8°♊42'13	0°06'13
transit begin	1032 May 24 j 15:21	8°♊48'06	
transit end	1032 May 24 j 22:51	8°♊36'20	
min. Earth dist.	1032 May 24 j 21:03	8°♊39'10	0.28954 AU
morning rise	1032 May 31 j 03:43	4°♊52'16	
direct	1032 Jun 15 j 10:23	0°♊24'13	

greatest brilliancy	1032 Jun 25 j 20:03	2°♊20'03	-4.7m
	1032 Aug 03 j 00:20	0°♋	
morning max el	1032 Aug 03 j 06:52	0°♋15'41	45°52'54
	1032 Aug 31 j 19:08	0°♌	
asc. node	1032 Sep 14 j 12:06	15°♌29'52	
	1032 Sep 26 j 22:37	0°♍	
	1032 Oct 21 j 21:19	0°♎	
	1032 Nov 15 j 05:24	0°♏	
	1032 Dec 09 j 06:52	0°♐	
	1033 Jan 02 j 06:15	0°♑	
desc. node	1033 Jan 04 j 01:30	2°♑15'22	
	1033 Jan 26 j 05:49	0°♒	
morning set	1033 Feb 05 j 10:16	12°♒43'23	
	1033 Feb 19 j 06:49	0°♓	
	1033 Mar 15 j 10:10	0°♈	
superior conj	1033 Mar 17 j 03:39	2°♈08'32	-1°17'52
minimum elong	1033 Mar 17 j 11:33	2°♈33'02	1°17'43
max. Earth dist.	1033 Mar 20 j 17:18	6°♈33'43	1.72674 AU
	1033 Apr 08 j 16:30	0°♉	
evening rise	1033 Apr 24 j 08:46	19°♉17'46	
asc. node	1033 Apr 27 j 05:02	22°♉47'27	
	1033 May 03 j 01:59	0°♊	
	1033 May 27 j 14:30	0°♋	
	1033 Jun 21 j 06:17	0°♌	
	1033 Jul 16 j 02:39	0°♍	
	1033 Aug 10 j 06:20	0°♎	
desc. node	1033 Aug 16 j 18:09	7°♎39'27	
	1033 Sep 04 j 22:12	0°♏	
	1033 Oct 01 j 13:18	0°♐	
evening max el	1033 Oct 20 j 17:44	20°♐13'24	47°14'04
	1033 Oct 30 j 19:38	0°♑	
greatest brilliancy	1033 Nov 30 j 09:33	21°♑35'28	-4.9m
asc. node	1033 Dec 07 j 21:35	23°♑25'20	
retrograde	1033 Dec 10 j 12:34	23°♑33'43	
evening set	1033 Dec 25 j 14:00	19°♑02'37	
min. Earth dist.	1033 Dec 30 j 08:17	16°♑13'24	0.26726 AU
inferior conj	1033 Dec 31 j 04:13	15°♑42'41	5°34'20
minimum elong	1033 Dec 30 j 18:09	15°♑58'13	5°31'50
morning rise	1034 Jan 04 j 22:40	12°♑51'05	
direct	1034 Jan 20 j 12:45	8°♑02'18	
greatest brilliancy	1034 Jan 29 j 18:36	9°♑39'10	-4.9m
	1034 Feb 28 j 23:37	0°♒	
morning max el	1034 Mar 11 j 07:41	9°♒45'18	46°25'53
desc. node	1034 Mar 29 j 11:04	28°♒28'12	
	1034 Mar 30 j 21:17	0°♓	
	1034 Apr 26 j 21:05	0°♈	
	1034 May 22 j 19:54	0°♉	
	1034 Jun 17 j 05:19	0°♊	
	1034 Jul 12 j 04:42	0°♋	
asc. node	1034 Jul 20 j 14:24	10°♋12'11	
	1034 Aug 05 j 19:04	0°♌	
	1034 Aug 30 j 01:42	0°♍	
morning set	1034 Sep 05 j 10:26	7°♍54'56	
	1034 Sep 23 j 02:47	0°♎	
max. Earth dist.	1034 Oct 11 j 14:10	23°♎09'45	1.71431 AU
superior conj	1034 Oct 13 j 13:43	25°♎39'01	0°57'45
minimum elong	1034 Oct 14 j 00:15	26°♎12'07	0°57'22
	1034 Oct 17 j 00:50	0°♏	
desc. node	1034 Nov 09 j 04:00	29°♏03'57	
	1034 Nov 09 j 21:50	0°♐	
evening rise	1034 Nov 23 j 07:52	16°♐51'41	
	1034 Dec 03 j 19:02	0°♑	
	1034 Dec 27 j 17:32	0°♒	
	1035 Jan 20 j 19:12	0°♓	
	1035 Feb 14 j 03:06	0°♈	
asc. node	1035 Mar 02 j 07:13	19°♈39'46	
	1035 Mar 10 j 21:36	0°♉	
	1035 Apr 05 j 09:17	0°♊	
	1035 May 02 j 03:27	0°♋	
evening max el	1035 May 25 j 19:56	24°♋17'27	45°21'12
	1035 May 31 j 23:04	0°♌	
desc. node	1035 Jun 21 j 20:34	16°♌21'48	
greatest brilliancy	1035 Jul 03 j 03:53	21°♌58'12	-4.7m
retrograde	1035 Jul 13 j 09:43	23°♌50'54	
evening set	1035 Jul 30 j 11:39	18°♌21'46	
inferior conj	1035 Aug 03 j 17:35	15°♌47'22	-7°59'09
minimum elong	1035 Aug 03 j 10:10	15°♌58'51	7°58'18
min. Earth dist.	1035 Aug 04 j 00:41	15°♌36'24	0.28655 AU
morning rise	1035 Aug 07 j 08:31	13°♌34'40	
direct	1035 Aug 25 j 06:00	7°♌34'25	
greatest brilliancy	1035 Sep 05 j 03:19	9°♌44'45	-4.8m
	1035 Oct 04 j 07:58	0°♍	
asc. node	1035 Oct 13 j 00:01	8°♍17'05	
morning max el	1035 Oct 14 j 09:45	9°♍41'14	46°33'31
	1035 Nov 02 j 12:42	0°♎	
	1035 Nov 28 j 13:27	0°♏	
	1035 Dec 23 j 11:57	0°♐	
	1036 Jan 17 j 00:08	0°♑	
desc. node	1036 Feb 01 j 13:20	19°♑08'40	
	1036 Feb 10 j 08:41	0°♒	
	1036 Mar 05 j 16:33	0°♓	
	1036 Mar 30 j 01:05	0°♈	
morning set	1036 Apr 18 j 17:50	24°♈13'18	
	1036 Apr 23 j 10:43	0°♉	
	1036 May 17 j 21:03	0°♊	
asc. node	1036 May 24 j 16:52	8°♊22'52	
superior conj	1036 May 25 j 14:53	9°♊30'29	0°02'12
minimum elong	1036 May 25 j 14:25	9°♊29'02	0°02'11
behind sun begin	1036 May 24 j 16:03	8°♊20'22	
behind sun end	1036 May 26 j 12:47	10°♊37'44	
max. Earth dist.	1036 May 25 j 06:10	9°♊03'40	1.73625 AU
	1036 Jun 11 j 07:13	0°♋	
evening rise	1036 Jun 30 j 13:57	23°♋42'29	
	1036 Jul 05 j 16:40	0°♌	
	1036 Jul 30 j 01:41	0°♍	
	1036 Aug 23 j 11:24	0°♎	
desc. node	1036 Sep 13 j 06:13	25°♎28'02	
	1036 Sep 16 j 23:13	0°♏	
	1036 Oct 11 j 14:38	0°♐	
	1036 Nov 05 j 12:37	0°♑	
	1036 Dec 01 j 01:25	0°♒	
	1036 Dec 28 j 05:39	0°♓	
evening max el	1036 Dec 31 j 18:01	3°♓37'17	47°03'06
asc. node	1037 Jan 04 j 09:28	7°♓17'02	
	1037 Jan 31 j 11:03	0°♈	
greatest brilliancy	1037 Feb 09 j 20:04	4°♈46'53	-4.9m
retrograde	1037 Feb 20 j 10:35	6°♈53'52	
evening set	1037 Mar 10 j 01:56	0°♈49'42	
	1037 Mar 11 j 10:05	30°℞♓	
inferior conj	1037 Mar 13 j 13:36	28°♓38'52	8°04'30
minimum elong	1037 Mar 13 j 20:23	28°♓28'08	8°03'47
min. Earth dist.	1037 Mar 13 j 06:25	28°♓50'12	0.28355 AU
morning rise	1037 Mar 17 j 15:08	26°♓07'54	
direct	1037 Apr 03 j 16:59	20°♓31'51	
greatest brilliancy	1037 Apr 13 j 02:19	22°♓09'51	-4.8m
desc. node	1037 Apr 25 j 22:49	28°♓36'54	
	1037 Apr 28 j 00:55	0°♈	
morning max el	1037 May 22 j 16:00	20°♈42'10	45°48'24
	1037 Jun 01 j 02:23	0°♉	
	1037 Jun 29 j 04:22	0°♊	
	1037 Jul 25 j 11:36	0°♋	

asc. node	1037 Aug 17 j 02:20	26°♋45'06	
	1037 Aug 19 j 19:15	0°♌	
	1037 Sep 13 j 10:55	0°♍	
	1037 Oct 07 j 15:55	0°♎	
greatest brilliancy	1037 Oct 29 j 13:05	27°♎23'50	-3.9m
	1037 Oct 31 j 14:50	0°♏	
morning set	1037 Nov 17 j 14:05	21°♏20'34	
	1037 Nov 24 j 11:10	0°♐	
desc. node	1037 Dec 06 j 15:40	15°♐20'32	
	1037 Dec 18 j 07:11	0°♑	
superior conj	1037 Dec 29 j 06:35	13°♑47'59	-0°50'32
minimum elong	1037 Dec 28 j 19:15	13°♑12'23	0°50'05
max. Earth dist.	1038 Jan 01 j 02:06	17°♑20'05	1.71200 AU
	1038 Jan 11 j 04:09	0°♒	
	1038 Feb 04 j 03:15	0°♓	
evening rise	1038 Feb 08 j 09:43	5°♓19'46	
	1038 Feb 28 j 05:54	0°♈	
	1038 Mar 24 j 13:47	0°♉	
asc. node	1038 Mar 29 j 19:16	6°♉24'09	
	1038 Apr 18 j 04:37	0°♊	
	1038 May 13 j 04:28	0°♋	
	1038 Jun 07 j 17:15	0°♌	
	1038 Jul 04 j 03:58	0°♍	
desc. node	1038 Jul 19 j 08:19	16°♍25'44	
	1038 Aug 01 j 14:05	0°♎	
evening max el	1038 Aug 06 j 02:03	4°♎23'46	46°05'24
	1038 Sep 07 j 11:14	0°♏	
greatest brilliancy	1038 Sep 15 j 08:15	3°♏24'03	-4.8m
retrograde	1038 Sep 24 j 08:31	4°♏53'33	
evening set	1038 Oct 10 j 10:14	29°♎58'50	
	1038 Oct 10 j 09:25	30°℞♎	
inferior conj	1038 Oct 15 j 02:13	27°♎12'44	-5°57'02
minimum elong	1038 Oct 15 j 12:44	26°♎56'40	5°54'33
min. Earth dist.	1038 Oct 15 j 21:24	26°♎43'27	0.26954 AU
morning rise	1038 Oct 20 j 14:42	23°♎57'03	
direct	1038 Nov 04 j 19:03	19°♎25'41	
asc. node	1038 Nov 09 j 11:42	19°♎51'42	
greatest brilliancy	1038 Nov 15 j 17:46	21°♎41'03	-4.9m
	1038 Nov 30 j 01:38	0°♏	
morning max el	1038 Dec 25 j 12:29	22°♏52'59	46°56'47
	1039 Jan 01 j 08:50	0°♐	
	1039 Jan 28 j 09:28	0°♑	
	1039 Feb 23 j 01:42	0°♒	
desc. node	1039 Mar 01 j 01:18	7°♒06'01	
	1039 Mar 20 j 05:19	0°♓	
	1039 Apr 14 j 03:14	0°♈	
	1039 May 08 j 22:07	0°♉	
	1039 Jun 02 j 14:24	0°♊	
asc. node	1039 Jun 22 j 04:38	23°♊56'02	
morning set	1039 Jun 26 j 11:49	29°♊12'11	
	1039 Jun 27 j 03:25	0°♋	
	1039 Jul 21 j 12:28	0°♌	
max. Earth dist.	1039 Jul 29 j 06:07	9°♌33'49	1.72947 AU
superior conj	1039 Aug 01 j 20:28	14°♌01'04	1°17'02
minimum elong	1039 Aug 01 j 13:41	13°♌40'05	1°16'55
	1039 Aug 14 j 17:47	0°♍	
evening rise	1039 Sep 07 j 13:48	29°♍38'55	
	1039 Sep 07 j 20:34	0°♎	
	1039 Oct 01 j 22:26	0°♏	
desc. node	1039 Oct 11 j 18:10	12°♏14'07	
	1039 Oct 26 j 00:35	0°♐	
	1039 Nov 19 j 04:03	0°♑	
	1039 Dec 13 j 10:45	0°♒	
	1040 Jan 07 j 01:08	0°♓	
	1040 Feb 01 j 08:20	0°♈	
asc. node	1040 Feb 01 j 21:18	0°♈37'34	
	1040 Feb 28 j 04:23	0°♉	
evening max el	1040 Mar 12 j 21:05	14°♉02'48	45°53'08
	1040 Mar 30 j 14:16	0°♊	
greatest brilliancy	1040 Apr 20 j 02:34	12°♊38'23	-4.7m
retrograde	1040 May 01 j 00:11	14°♊48'23	
evening set	1040 May 16 j 03:51	10°♊22'25	
inferior conj	1040 May 22 j 11:57	6°♊34'04	0°13'20
minimum elong	1040 May 22 j 12:27	6°♊33'17	0°13'12
transit middle	1040 May 22 j 12:27	6°♊33'17	0°13'12
transit begin	1040 May 22 j 10:05	6°♊36'59	
transit end	1040 May 22 j 14:48	6°♊29'35	
min. Earth dist.	1040 May 22 j 14:01	6°♊30'48	0.28948 AU
desc. node	1040 May 23 j 10:37	5°♊58'29	
morning rise	1040 May 28 j 20:59	2°♊43'36	
	1040 Jun 03 j 17:32	30°℞♉	
direct	1040 Jun 13 j 02:16	28°♉16'17	
	1040 Jun 22 j 22:02	0°♊	
greatest brilliancy	1040 Jun 23 j 12:46	0°♊12'46	-4.7m
morning max el	1040 Jul 31 j 22:34	28°♊05'25	45°52'00
	1040 Aug 02 j 21:59	0°♋	
	1040 Aug 31 j 10:29	0°♌	
asc. node	1040 Sep 13 j 14:19	14°♌55'50	
	1040 Sep 26 j 11:49	0°♍	
	1040 Oct 21 j 09:33	0°♎	
	1040 Nov 14 j 17:09	0°♏	
	1040 Dec 08 j 18:19	0°♐	
	1041 Jan 01 j 17:28	0°♑	
desc. node	1041 Jan 03 j 03:33	1°♑46'43	
	1041 Jan 25 j 16:51	0°♒	
morning set	1041 Feb 02 j 21:07	10°♒13'11	
	1041 Feb 18 j 17:41	0°♓	
superior conj	1041 Mar 14 j 17:53	29°♓50'37	-1°19'18
minimum elong	1041 Mar 15 j 01:17	0°♈13'31	1°19'10
	1041 Mar 14 j 20:55	0°♈	
max. Earth dist.	1041 Mar 18 j 07:18	4°♈15'15	1.72620 AU
	1041 Apr 08 j 03:13	0°♉	
evening rise	1041 Apr 22 j 01:28	17°♉08'41	
asc. node	1041 Apr 26 j 07:05	22°♉20'47	
	1041 May 02 j 12:45	0°♊	
	1041 May 27 j 01:25	0°♋	
	1041 Jun 20 j 17:31	0°♌	
	1041 Jul 15 j 14:27	0°♍	
	1041 Aug 09 j 19:09	0°♎	
desc. node	1041 Aug 15 j 20:19	7°♎07'15	
	1041 Sep 04 j 12:45	0°♏	
	1041 Oct 01 j 07:22	0°♐	
evening max el	1041 Oct 18 j 07:32	17°♐49'35	47°12'38
	1041 Oct 31 j 00:49	0°♑	
greatest brilliancy	1041 Nov 27 j 22:40	19°♑06'57	-4.9m
asc. node	1041 Dec 06 j 23:37	21°♑03'54	
retrograde	1041 Dec 08 j 01:55	21°♑05'23	
evening set	1041 Dec 22 j 23:55	16°♑38'13	
min. Earth dist.	1041 Dec 27 j 21:21	13°♑44'56	0.26680 AU
inferior conj	1041 Dec 28 j 16:47	13°♑15'05	5°15'25
minimum elong	1041 Dec 28 j 06:57	13°♑30'13	5°12'52
morning rise	1042 Jan 02 j 14:23	10°♑19'35	
direct	1042 Jan 18 j 01:16	5°♑35'16	
greatest brilliancy	1042 Jan 27 j 07:44	7°♑13'14	-4.9m
	1042 Mar 01 j 03:29	0°♒	
morning max el	1042 Mar 08 j 21:55	7°♒25'31	46°27'31
desc. node	1042 Mar 28 j 13:11	27°♒46'19	
	1042 Mar 30 j 14:40	0°♓	
	1042 Apr 26 j 11:10	0°♈	
	1042 May 22 j 08:25	0°♉	
	1042 Jun 16 j 16:57	0°♊	

	1042 Jul 11 j 15:49	0°♋	
asc. node	1042 Jul 19 j 16:32	9°♋45'11	
	1042 Aug 05 j 05:54	0°♌	
	1042 Aug 29 j 12:24	0°♍	
morning set	1042 Sep 03 j 02:31	5°♍42'19	
	1042 Sep 22 j 13:29	0°♎	
max. Earth dist.	1042 Oct 09 j 01:56	20°♎42'18	1.71473 AU
superior conj	1042 Oct 11 j 02:57	23°♎16'04	1°00'23
minimum elong	1042 Oct 11 j 13:27	23°♎49'03	1°00'01
	1042 Oct 16 j 11:37	0°♏	
desc. node	1042 Nov 08 j 05:58	28°♏35'55	
	1042 Nov 09 j 08:44	0°♐	
evening rise	1042 Nov 20 j 18:17	14°♐19'13	
	1042 Dec 03 j 06:03	0°♑	
	1042 Dec 27 j 04:42	0°♒	
	1043 Jan 20 j 06:33	0°♓	
	1043 Feb 13 j 14:46	0°♈	
asc. node	1043 Mar 01 j 09:22	19°♈10'06	
	1043 Mar 10 j 09:52	0°♉	
	1043 Apr 04 j 22:46	0°♊	
	1043 May 01 j 19:48	0°♋	
evening max el	1043 May 23 j 12:15	22°♋08'28	45°21'00
	1043 Jun 01 j 01:03	0°♌	
desc. node	1043 Jun 20 j 22:36	15°♌03'44	
greatest brilliancy	1043 Jun 30 j 17:48	19°♌46'06	-4.7m
retrograde	1043 Jul 11 j 01:07	21°♌39'37	
evening set	1043 Jul 27 j 23:49	16°♌15'17	
inferior conj	1043 Aug 01 j 09:07	13°♌35'36	-7°50'31
minimum elong	1043 Aug 01 j 01:11	13°♌47'53	7°49'31
min. Earth dist.	1043 Aug 01 j 15:12	13°♌26'11	0.28685 AU
morning rise	1043 Aug 05 j 02:24	11°♌19'11	
direct	1043 Aug 22 j 22:25	5°♌22'29	
greatest brilliancy	1043 Sep 02 j 17:53	7°♌30'59	-4.8m
	1043 Oct 04 j 09:48	0°♍	
morning max el	1043 Oct 12 j 00:37	7°♍23'57	46°31'59
asc. node	1043 Oct 12 j 01:57	7°♍27'19	
	1043 Nov 02 j 05:27	0°♎	
	1043 Nov 28 j 03:28	0°♏	
	1043 Dec 23 j 00:43	0°♐	
	1044 Jan 16 j 12:11	0°♑	
desc. node	1044 Jan 31 j 15:28	18°♑39'00	
	1044 Feb 09 j 20:16	0°♒	
	1044 Mar 05 j 03:47	0°♓	
	1044 Mar 29 j 12:02	0°♈	
morning set	1044 Apr 16 j 10:34	22°♈04'06	
	1044 Apr 22 j 21:27	0°♉	
	1044 May 17 j 07:39	0°♊	
superior conj	1044 May 23 j 08:48	7°♊25'32	-0°01'01
minimum elong	1044 May 23 j 09:01	7°♊26'12	0°01'01
behind sun begin	1044 May 22 j 10:32	6°♊17'11	
behind sun end	1044 May 24 j 07:29	8°♊35'13	
max. Earth dist.	1044 May 23 j 04:51	7°♊13'24	1.73616 AU
asc. node	1044 May 23 j 18:54	7°♊56'34	
	1044 Jun 10 j 17:49	0°♋	
evening rise	1044 Jun 28 j 08:56	21°♋40'22	
	1044 Jul 05 j 03:23	0°♌	
	1044 Jul 29 j 12:39	0°♍	
	1044 Aug 22 j 22:43	0°♎	
desc. node	1044 Sep 12 j 08:18	24°♎58'42	
	1044 Sep 16 j 11:01	0°♏	
	1044 Oct 11 j 03:07	0°♐	
	1044 Nov 05 j 02:12	0°♑	
	1044 Nov 30 j 17:04	0°♒	
	1044 Dec 28 j 02:34	0°♓	
evening max el	1044 Dec 29 j 09:04	1°♓18'03	47°04'45
asc. node	1045 Jan 03 j 11:32	6°♓24'21	
	1045 Feb 02 j 00:38	0°♈	
greatest brilliancy	1045 Feb 07 j 12:29	2°♈31'33	-4.9m
retrograde	1045 Feb 18 j 02:04	4°♈37'35	
	1045 Mar 05 j 07:09	30°℞♓	
evening set	1045 Mar 07 j 19:30	28°♓30'46	
inferior conj	1045 Mar 11 j 04:56	26°♓23'09	8°12'14
minimum elong	1045 Mar 11 j 11:08	26°♓13'20	8°11'38
min. Earth dist.	1045 Mar 10 j 20:57	26°♓35'48	0.28313 AU
morning rise	1045 Mar 15 j 03:03	23°♓57'06	
direct	1045 Apr 01 j 07:54	18°♓17'07	
greatest brilliancy	1045 Apr 10 j 15:55	19°♓53'51	-4.8m
desc. node	1045 Apr 25 j 00:45	27°♓20'22	
	1045 Apr 28 j 19:31	0°♈	
morning max el	1045 May 20 j 06:19	18°♈27'24	45°49'07
	1045 May 31 j 21:33	0°♉	
	1045 Jun 28 j 18:58	0°♊	
	1045 Jul 25 j 00:20	0°♋	
asc. node	1045 Aug 16 j 04:26	26°♋15'41	
	1045 Aug 19 j 07:05	0°♌	
	1045 Sep 12 j 22:18	0°♍	
	1045 Oct 07 j 03:04	0°♎	
greatest brilliancy	1045 Oct 30 j 15:09	29°♎26'23	-3.9m
	1045 Oct 31 j 01:51	0°♏	
morning set	1045 Nov 15 j 01:26	18°♏50'40	
	1045 Nov 23 j 22:08	0°♐	
desc. node	1045 Dec 05 j 17:46	14°♐52'39	
	1045 Dec 17 j 18:07	0°♑	
superior conj	1045 Dec 26 j 16:32	11°♑14'05	-0°47'16
minimum elong	1045 Dec 26 j 05:36	10°♑39'45	0°46'48
max. Earth dist.	1045 Dec 29 j 07:20	14°♑31'24	1.71171 AU
	1046 Jan 10 j 15:05	0°♒	
	1046 Feb 03 j 14:11	0°♓	
evening rise	1046 Feb 05 j 21:09	2°♓51'32	
	1046 Feb 27 j 16:54	0°♈	
	1046 Mar 24 j 00:56	0°♉	
asc. node	1046 Mar 28 j 21:13	5°♉55'52	
	1046 Apr 17 j 16:06	0°♊	
	1046 May 12 j 16:35	0°♋	
	1046 Jun 07 j 06:33	0°♌	
	1046 Jul 03 j 19:42	0°♍	
desc. node	1046 Jul 18 j 10:28	15°♍43'27	
	1046 Aug 01 j 12:15	0°♎	
evening max el	1046 Aug 03 j 14:06	2°♎00'44	46°02'57
	1046 Sep 10 j 02:00	0°♏	
greatest brilliancy	1046 Sep 12 j 21:23	1°♏00'50	-4.8m
retrograde	1046 Sep 21 j 20:28	2°♏29'42	
	1046 Oct 03 j 02:54	30°℞♎	
evening set	1046 Oct 08 j 02:10	27°♎29'55	
inferior conj	1046 Oct 12 j 15:06	24°♎48'18	-6°13'54
minimum elong	1046 Oct 13 j 01:42	24°♎32'08	6°11'30
min. Earth dist.	1046 Oct 13 j 11:20	24°♎17'27	0.27015 AU
morning rise	1046 Oct 18 j 00:39	21°♎36'32	
direct	1046 Nov 02 j 07:59	16°♎59'54	
asc. node	1046 Nov 08 j 13:45	17°♎45'21	
greatest brilliancy	1046 Nov 13 j 08:52	19°♎17'00	-4.9m
	1046 Nov 30 j 19:52	0°♏	
morning max el	1046 Dec 23 j 01:47	20°♏26'42	46°57'06
	1047 Jan 01 j 04:57	0°♐	
	1047 Jan 28 j 00:58	0°♑	
	1047 Feb 22 j 15:12	0°♒	
desc. node	1047 Feb 28 j 03:24	6°♒32'59	
	1047 Mar 19 j 17:43	0°♓	
	1047 Apr 13 j 14:57	0°♈	
	1047 May 08 j 09:23	0°♉	
	1047 Jun 02 j 01:23	0°♊	

asc. node	1047 Jun 21 j 06:48	23°♊29'23	
morning set	1047 Jun 24 j 05:55	27°♊07'16	
	1047 Jun 26 j 14:15	0°♋	
	1047 Jul 20 j 23:14	0°♌	
max. Earth dist.	1047 Jul 27 j 02:46	7°♌35'54	1.72994 AU
superior conj	1047 Jul 30 j 14:17	11°♌54'19	1°15'39
minimum elong	1047 Jul 30 j 07:07	11°♌32'06	1°15'30
	1047 Aug 14 j 04:35	0°♍	
evening rise	1047 Sep 05 j 05:23	27°♍23'55	
	1047 Sep 07 j 07:32	0°♎	
	1047 Oct 01 j 09:38	0°♏	
desc. node	1047 Oct 10 j 20:07	11°♏44'55	
	1047 Oct 25 j 12:05	0°♐	
	1047 Nov 18 j 15:53	0°♑	
	1047 Dec 12 j 23:01	0°♒	
	1048 Jan 06 j 14:08	0°♓	
asc. node	1048 Jan 31 j 23:28	0°♈01'57	
	1048 Jan 31 j 22:47	0°♈	
	1048 Feb 27 j 22:29	0°♉	
evening max el	1048 Mar 10 j 12:00	11°♉48'17	45°55'22
	1048 Mar 31 j 01:05	0°♊	
greatest brilliancy	1048 Apr 17 j 18:44	10°♊29'03	-4.7m
retrograde	1048 Apr 28 j 17:08	12°♊40'00	
evening set	1048 May 13 j 21:16	8°♊12'11	
inferior conj	1048 May 20 j 04:27	4°♊25'11	0°33'04
minimum elong	1048 May 20 j 05:39	4°♊23'17	0°32'43
min. Earth dist.	1048 May 20 j 06:36	4°♊21'49	0.28945 AU
desc. node	1048 May 22 j 12:43	2°♊57'24	
morning rise	1048 May 26 j 14:02	0°♊34'14	
	1048 May 27 j 15:32	30°℞♉	
direct	1048 Jun 10 j 18:28	26°♉07'16	
greatest brilliancy	1048 Jun 21 j 05:00	28°♉04'04	-4.7m
	1048 Jun 25 j 19:34	0°♊	
morning max el	1048 Jul 29 j 15:11	25°♊56'37	45°51'10
	1048 Aug 02 j 19:12	0°♋	
	1048 Aug 31 j 01:52	0°♌	
asc. node	1048 Sep 12 j 16:18	14°♌20'42	
	1048 Sep 26 j 01:08	0°♍	
	1048 Oct 20 j 21:55	0°♎	
	1048 Nov 14 j 05:01	0°♏	
	1048 Dec 08 j 05:55	0°♐	
	1049 Jan 01 j 04:52	0°♑	
desc. node	1049 Jan 02 j 05:38	1°♑17'34	
	1049 Jan 25 j 04:04	0°♒	
morning set	1049 Jan 31 j 07:59	7°♒42'14	
	1049 Feb 18 j 04:45	0°♓	
superior conj	1049 Mar 12 j 08:08	27°♓31'55	-1°20'36
minimum elong	1049 Mar 12 j 14:55	27°♓52'59	1°20'29
	1049 Mar 14 j 07:53	0°♈	
max. Earth dist.	1049 Mar 15 j 22:11	1°♈58'42	1.72565 AU
	1049 Apr 07 j 14:08	0°♉	
evening rise	1049 Apr 19 j 18:12	14°♉59'03	
asc. node	1049 Apr 25 j 09:06	21°♉53'23	
	1049 May 01 j 23:44	0°♊	
	1049 May 26 j 12:35	0°♋	
	1049 Jun 20 j 05:04	0°♌	
	1049 Jul 15 j 02:39	0°♍	
	1049 Aug 09 j 08:23	0°♎	
desc. node	1049 Aug 14 j 22:19	6°♎33'24	
	1049 Sep 04 j 03:49	0°♏	
	1049 Oct 01 j 02:13	0°♐	
evening max el	1049 Oct 15 j 22:05	15°♐26'59	47°11'14
	1049 Oct 31 j 08:32	0°♑	
greatest brilliancy	1049 Nov 25 j 11:31	16°♑37'24	-4.9m
retrograde	1049 Dec 05 j 15:21	18°♑35'55	
asc. node	1049 Dec 06 j 01:46	18°♑35'41	
evening set	1049 Dec 20 j 10:03	14°♑12'36	
min. Earth dist.	1049 Dec 25 j 10:15	11°♑15'28	0.26637 AU
inferior conj	1049 Dec 26 j 05:15	10°♑46'18	4°55'45
minimum elong	1049 Dec 25 j 19:45	11°♑00'53	4°53'12
morning rise	1049 Dec 31 j 05:58	7°♑46'56	
direct	1050 Jan 15 j 14:06	3°♑07'14	
greatest brilliancy	1050 Jan 24 j 20:26	4°♑45'34	-4.9m
	1050 Mar 01 j 06:10	0°♒	
morning max el	1050 Mar 06 j 12:08	5°♒04'38	46°29'06
desc. node	1050 Mar 27 j 15:05	27°♒03'24	
	1050 Mar 30 j 08:01	0°♓	
	1050 Apr 26 j 01:26	0°♈	
	1050 May 21 j 21:10	0°♉	
	1050 Jun 16 j 04:52	0°♊	
	1050 Jul 11 j 03:14	0°♋	
asc. node	1050 Jul 18 j 18:37	9°♋16'58	
	1050 Aug 04 j 17:04	0°♌	
	1050 Aug 28 j 23:29	0°♍	
morning set	1050 Aug 31 j 18:23	3°♍27'55	
	1050 Sep 22 j 00:35	0°♎	
max. Earth dist.	1050 Oct 06 j 10:44	18°♎04'27	1.71512 AU
superior conj	1050 Oct 08 j 16:05	20°♎51'47	1°02'54
minimum elong	1050 Oct 09 j 02:29	21°♎24'25	1°02'33
	1050 Oct 15 j 22:47	0°♏	
desc. node	1050 Nov 07 j 08:03	28°♏07'08	
	1050 Nov 08 j 19:59	0°♐	
evening rise	1050 Nov 18 j 04:30	11°♐45'05	
	1050 Dec 02 j 17:24	0°♑	
	1050 Dec 26 j 16:11	0°♒	
	1051 Jan 19 j 18:16	0°♓	
	1051 Feb 13 j 02:49	0°♈	
asc. node	1051 Feb 28 j 11:19	18°♈38'38	
	1051 Mar 09 j 22:33	0°♉	
	1051 Apr 04 j 12:45	0°♊	
	1051 May 01 j 12:50	0°♋	
evening max el	1051 May 21 j 04:03	19°♋57'14	45°20'49
	1051 Jun 01 j 05:04	0°♌	
desc. node	1051 Jun 20 j 00:43	13°♌42'14	
greatest brilliancy	1051 Jun 28 j 08:12	17°♌33'34	-4.7m
retrograde	1051 Jul 08 j 15:58	19°♌27'23	
evening set	1051 Jul 25 j 11:59	14°♌07'54	
inferior conj	1051 Jul 30 j 00:40	11°♌23'00	-7°41'13
minimum elong	1051 Jul 29 j 16:17	11°♌36'01	7°40'04
min. Earth dist.	1051 Jul 30 j 06:06	11°♌14'33	0.28717 AU
morning rise	1051 Aug 02 j 20:25	9°♌02'34	
direct	1051 Aug 20 j 14:23	3°♌09'35	
greatest brilliancy	1051 Aug 31 j 08:56	5°♌16'37	-4.8m
	1051 Oct 04 j 10:53	0°♍	
morning max el	1051 Oct 09 j 14:40	5°♍03'20	46°30'22
asc. node	1051 Oct 11 j 04:01	6°♍37'16	
	1051 Nov 01 j 22:23	0°♎	
	1051 Nov 27 j 17:47	0°♏	
	1051 Dec 22 j 13:47	0°♐	
	1052 Jan 16 j 00:32	0°♑	
desc. node	1052 Jan 30 j 17:31	18°♑08'09	
	1052 Feb 09 j 08:08	0°♒	
	1052 Mar 04 j 15:18	0°♓	
	1052 Mar 28 j 23:18	0°♈	
morning set	1052 Apr 14 j 03:11	19°♈53'31	
	1052 Apr 22 j 08:31	0°♉	
	1052 May 16 j 18:36	0°♊	
superior conj	1052 May 21 j 02:49	5°♊19'54	-0°04'12
minimum elong	1052 May 21 j 03:40	5°♊22'32	0°04'10
behind sun begin	1052 May 20 j 05:43	4°♊15'07	

behind sun end	1052 May 22 j 01:37	6°♊29'56	
max. Earth dist.	1052 May 21 j 01:48	5°♊16'46	1.73603 AU
asc. node	1052 May 22 j 21:02	7°♊29'32	
	1052 Jun 10 j 04:45	0°♋	
evening rise	1052 Jun 26 j 04:00	19°♋37'35	
	1052 Jul 04 j 14:25	0°♌	
	1052 Jul 28 j 23:55	0°♍	
	1052 Aug 22 j 10:23	0°♎	
desc. node	1052 Sep 11 j 10:15	24°♎27'46	
	1052 Sep 15 j 23:13	0°♏	
	1052 Oct 10 j 16:05	0°♐	
	1052 Nov 04 j 16:22	0°♑	
	1052 Nov 30 j 09:26	0°♒	
evening max el	1052 Dec 26 j 23:06	28°♒54'50	47°06'32
	1052 Dec 28 j 00:45	0°♓	
asc. node	1053 Jan 02 j 13:39	5°♓29'28	
	1053 Feb 04 j 13:36	0°♈	
greatest brilliancy	1053 Feb 05 j 05:10	0°♈15'10	-4.9m
retrograde	1053 Feb 15 j 17:11	2°♈20'03	
	1053 Feb 26 j 09:19	30°℞♓	
evening set	1053 Mar 05 j 12:48	26°♓10'51	
inferior conj	1053 Mar 08 j 20:14	24°♓06'15	8°19'13
minimum elong	1053 Mar 09 j 01:47	23°♓57'26	8°18'44
min. Earth dist.	1053 Mar 08 j 11:40	24°♓19'49	0.28268 AU
morning rise	1053 Mar 12 j 15:00	21°♓45'00	
direct	1053 Mar 29 j 22:09	16°♓01'02	
greatest brilliancy	1053 Apr 08 j 05:56	17°♓37'10	-4.8m
desc. node	1053 Apr 24 j 02:55	26°♓05'30	
	1053 Apr 29 j 09:50	0°♈	
morning max el	1053 May 17 j 20:16	16°♈10'44	45°49'57
	1053 May 31 j 16:31	0°♉	
	1053 Jun 28 j 09:40	0°♊	
	1053 Jul 24 j 13:15	0°♋	
asc. node	1053 Aug 15 j 06:26	25°♋45'18	
	1053 Aug 18 j 19:07	0°♌	
	1053 Sep 12 j 09:52	0°♍	
	1053 Oct 06 j 14:26	0°♎	
	1053 Oct 30 j 13:08	0°♏	
greatest brilliancy	1053 Oct 31 j 04:35	0°♏48'34	-3.9m
morning set	1053 Nov 12 j 12:35	16°♏19'11	
	1053 Nov 23 j 09:24	0°♐	
desc. node	1053 Dec 04 j 19:54	14°♐23'56	
	1053 Dec 17 j 05:22	0°♑	
superior conj	1053 Dec 24 j 01:56	8°♑37'28	-0°43'50
minimum elong	1053 Dec 23 j 15:30	8°♑04'40	0°43'23
max. Earth dist.	1053 Dec 26 j 08:31	11°♑29'01	1.71146 AU
	1054 Jan 10 j 02:19	0°♒	
evening rise	1054 Feb 03 j 08:01	0°♓20'38	
	1054 Feb 03 j 01:24	0°♓	
	1054 Feb 27 j 04:08	0°♈	
	1054 Mar 23 j 12:19	0°♉	
asc. node	1054 Mar 27 j 23:17	5°♉27'17	
	1054 Apr 17 j 03:50	0°♊	
	1054 May 12 j 04:59	0°♋	
	1054 Jun 06 j 20:11	0°♌	
	1054 Jul 03 j 11:53	0°♍	
desc. node	1054 Jul 17 j 12:30	14°♍59'49	
evening max el	1054 Aug 01 j 02:35	29°♍38'38	46°00'40
	1054 Aug 01 j 11:30	0°♎	
greatest brilliancy	1054 Sep 10 j 09:52	28°♎37'03	-4.8m
	1054 Sep 17 j 02:05	0°♏	
retrograde	1054 Sep 19 j 08:57	0°♏06'05	
	1054 Sep 21 j 15:16	30°℞♎	
evening set	1054 Oct 05 j 18:08	25°♎00'56	
inferior conj	1054 Oct 10 j 04:02	22°♎23'50	-6°29'55
minimum elong	1054 Oct 10 j 14:38	22°♎07'42	6°27'37
min. Earth dist.	1054 Oct 11 j 00:56	21°♎52'00	0.27082 AU
morning rise	1054 Oct 15 j 10:32	19°♎16'26	
direct	1054 Oct 30 j 21:28	14°♎34'06	
asc. node	1054 Nov 07 j 15:54	15°♎43'56	
greatest brilliancy	1054 Nov 10 j 23:41	16°♎52'42	-4.9m
	1054 Dec 01 j 09:40	0°♏	
morning max el	1054 Dec 20 j 16:05	18°♏02'30	46°57'07
	1055 Jan 01 j 00:43	0°♐	
	1055 Jan 27 j 16:30	0°♑	
	1055 Feb 22 j 04:50	0°♒	
desc. node	1055 Feb 27 j 05:20	5°♒58'58	
	1055 Mar 19 j 06:15	0°♓	
	1055 Apr 13 j 02:46	0°♈	
	1055 May 07 j 20:43	0°♉	
	1055 Jun 01 j 12:26	0°♊	
asc. node	1055 Jun 20 j 08:49	23°♊02'08	
morning set	1055 Jun 21 j 23:58	25°♊02'05	
	1055 Jun 26 j 01:08	0°♋	
	1055 Jul 20 j 10:05	0°♌	
max. Earth dist.	1055 Jul 24 j 23:53	5°♌39'14	1.73037 AU
superior conj	1055 Jul 28 j 08:13	9°♌47'42	1°14'10
minimum elong	1055 Jul 28 j 00:40	9°♌24'21	1°13'59
	1055 Aug 13 j 15:28	0°♍	
evening rise	1055 Sep 02 j 21:18	25°♍09'54	
	1055 Sep 06 j 18:32	0°♎	
	1055 Sep 30 j 20:51	0°♏	
desc. node	1055 Oct 09 j 22:15	11°♏16'26	
	1055 Oct 24 j 23:35	0°♐	
	1055 Nov 18 j 03:44	0°♑	
	1055 Dec 12 j 11:21	0°♒	
	1056 Jan 06 j 03:16	0°♓	
asc. node	1056 Jan 31 j 01:23	29°♓25'06	
	1056 Jan 31 j 13:30	0°♈	
	1056 Feb 27 j 17:10	0°♉	
evening max el	1056 Mar 08 j 03:49	9°♉35'37	45°57'47
	1056 Mar 31 j 15:49	0°♊	
greatest brilliancy	1056 Apr 15 j 10:52	8°♊19'29	-4.7m
retrograde	1056 Apr 26 j 10:21	10°♊31'13	
evening set	1056 May 11 j 14:50	6°♊01'37	
inferior conj	1056 May 17 j 20:52	2°♊16'00	0°52'49
minimum elong	1056 May 17 j 22:48	2°♊12'59	0°52'15
min. Earth dist.	1056 May 17 j 22:50	2°♊12'56	0.28938 AU
desc. node	1056 May 21 j 14:48	29°♉57'06	
	1056 May 21 j 12:52	30°℞♉	
morning rise	1056 May 24 j 06:51	28°♉24'50	
direct	1056 Jun 08 j 10:59	23°♉58'12	
greatest brilliancy	1056 Jun 18 j 20:29	25°♉54'35	-4.7m
	1056 Jun 27 j 13:20	0°♊	
morning max el	1056 Jul 27 j 08:09	23°♊49'00	45°50'17
	1056 Aug 02 j 15:37	0°♋	
	1056 Aug 30 j 16:57	0°♌	
asc. node	1056 Sep 11 j 18:18	13°♌46'03	
	1056 Sep 25 j 14:14	0°♍	
	1056 Oct 20 j 10:06	0°♎	
	1056 Nov 13 j 16:43	0°♏	
	1056 Dec 07 j 17:20	0°♐	
	1056 Dec 31 j 16:05	0°♑	
desc. node	1057 Jan 01 j 07:39	0°♑48'46	
	1057 Jan 24 j 15:08	0°♒	
morning set	1057 Jan 28 j 18:47	5°♒11'29	
	1057 Feb 17 j 15:42	0°♓	
superior conj	1057 Mar 09 j 21:57	25°♓12'08	-1°21'45
minimum elong	1057 Mar 10 j 04:05	25°♓31'10	1°21'40
max. Earth dist.	1057 Mar 13 j 13:41	29°♓44'20	1.72514 AU
	1057 Mar 13 j 18:44	0°♈	

	1057 Apr 07 j 00:57	0°♉	
evening rise	1057 Apr 17 j 10:27	12°♉48'15	
asc. node	1057 Apr 24 j 11:14	21°♉26'43	
	1057 May 01 j 10:35	0°♊	
	1057 May 25 j 23:37	0°♋	
	1057 Jun 19 j 16:28	0°♌	
	1057 Jul 14 j 14:43	0°♍	
	1057 Aug 08 j 21:33	0°♎	
desc. node	1057 Aug 14 j 00:18	5°♎59'48	
	1057 Sep 03 j 18:53	0°♏	
	1057 Sep 30 j 21:19	0°♐	
evening max el	1057 Oct 13 j 13:10	13°♐06'36	47°09'45
	1057 Oct 31 j 18:29	0°♑	
greatest brilliancy	1057 Nov 23 j 00:52	14°♑09'42	-4.9m
retrograde	1057 Dec 03 j 04:48	16°♑07'33	
asc. node	1057 Dec 05 j 03:44	16°♑02'48	
evening set	1057 Dec 17 j 20:35	11°♑48'11	
min. Earth dist.	1057 Dec 22 j 23:30	8°♑47'05	0.26592 AU
inferior conj	1057 Dec 23 j 17:51	8°♑18'56	4°35'30
minimum elong	1057 Dec 23 j 08:45	8°♑32'53	4°32'59
morning rise	1057 Dec 28 j 21:29	5°♑15'40	
direct	1058 Jan 13 j 02:57	0°♑40'49	
greatest brilliancy	1058 Jan 22 j 09:22	2°♑19'19	-4.9m
	1058 Mar 01 j 07:00	0°♒	
morning max el	1058 Mar 04 j 01:44	2°♒43'06	46°30'28
desc. node	1058 Mar 26 j 17:15	26°♒22'36	
	1058 Mar 30 j 00:43	0°♓	
	1058 Apr 25 j 15:17	0°♈	
	1058 May 21 j 09:36	0°♉	
	1058 Jun 15 j 16:28	0°♊	
	1058 Jul 10 j 14:21	0°♋	
asc. node	1058 Jul 17 j 20:36	8°♋49'26	
	1058 Aug 04 j 03:55	0°♌	
	1058 Aug 28 j 10:15	0°♍	
morning set	1058 Aug 29 j 10:16	1°♍14'39	
	1058 Sep 21 j 11:22	0°♎	
max. Earth dist.	1058 Oct 03 j 17:49	15°♎22'15	1.71556 AU
superior conj	1058 Oct 06 j 05:32	18°♎29'28	1°05'18
minimum elong	1058 Oct 06 j 15:45	19°♎01'30	1°04'58
	1058 Oct 15 j 09:39	0°♏	
desc. node	1058 Nov 06 j 10:10	27°♏39'27	
	1058 Nov 08 j 06:56	0°♐	
evening rise	1058 Nov 15 j 14:59	9°♐12'43	
	1058 Dec 02 j 04:27	0°♑	
	1058 Dec 26 j 03:21	0°♒	
	1059 Jan 19 j 05:36	0°♓	
	1059 Feb 12 j 14:30	0°♈	
asc. node	1059 Feb 27 j 13:24	18°♈08'45	
	1059 Mar 09 j 10:53	0°♉	
	1059 Apr 04 j 02:27	0°♊	
	1059 May 01 j 05:49	0°♋	
evening max el	1059 May 18 j 19:15	17°♋45'34	45°20'42
	1059 Jun 01 j 10:31	0°♌	
desc. node	1059 Jun 19 j 02:43	12°♌19'01	
greatest brilliancy	1059 Jun 25 j 23:04	15°♌22'41	-4.7m
retrograde	1059 Jul 06 j 06:44	17°♌16'48	
evening set	1059 Jul 23 j 00:17	12°♌01'56	
inferior conj	1059 Jul 27 j 16:24	9°♌12'03	-7°31'11
minimum elong	1059 Jul 27 j 07:37	9°♌25'42	7°29'54
min. Earth dist.	1059 Jul 27 j 21:32	9°♌04'03	0.28746 AU
morning rise	1059 Jul 31 j 14:43	6°♌47'31	
direct	1059 Aug 18 j 06:02	0°♌58'13	
greatest brilliancy	1059 Aug 29 j 00:43	3°♌04'38	-4.8m
	1059 Oct 04 j 10:17	0°♍	
morning max el	1059 Oct 07 j 04:22	2°♍43'15	46°28'46
asc. node	1059 Oct 10 j 06:12	5°♍49'39	
	1059 Nov 01 j 14:33	0°♎	
	1059 Nov 27 j 07:34	0°♏	
	1059 Dec 22 j 02:24	0°♐	
	1060 Jan 15 j 12:27	0°♑	
desc. node	1060 Jan 29 j 19:30	17°♑38'22	
	1060 Feb 08 j 19:34	0°♒	
	1060 Mar 04 j 02:23	0°♓	
	1060 Mar 28 j 10:07	0°♈	
morning set	1060 Apr 11 j 19:54	17°♈44'32	
	1060 Apr 21 j 19:08	0°♉	
	1060 May 16 j 05:08	0°♊	
superior conj	1060 May 18 j 20:52	3°♊15'41	-0°07'22
minimum elong	1060 May 18 j 22:23	3°♊20'21	0°07'17
behind sun begin	1060 May 18 j 02:04	2°♊17'59	
behind sun end	1060 May 19 j 18:42	4°♊22'44	
max. Earth dist.	1060 May 18 j 21:43	3°♊18'18	1.73594 AU
asc. node	1060 May 21 j 23:03	7°♊03'24	
	1060 Jun 09 j 15:17	0°♋	
evening rise	1060 Jun 23 j 23:03	17°♋36'02	
	1060 Jul 04 j 01:05	0°♌	
	1060 Jul 28 j 10:50	0°♍	
	1060 Aug 21 j 21:40	0°♎	
desc. node	1060 Sep 10 j 12:23	23°♎58'32	
	1060 Sep 15 j 11:03	0°♏	
	1060 Oct 10 j 04:44	0°♐	
	1060 Nov 04 j 06:16	0°♑	
	1060 Nov 30 j 01:41	0°♒	
evening max el	1060 Dec 24 j 12:50	26°♒31'53	47°08'16
	1060 Dec 27 j 23:22	0°♓	
asc. node	1061 Jan 01 j 15:38	4°♓34'17	
greatest brilliancy	1061 Feb 02 j 21:44	27°♓59'36	-4.9m
	1061 Feb 11 j 13:29	0°♈	
retrograde	1061 Feb 13 j 08:25	0°♈03'52	
	1061 Feb 15 j 03:00	30°℞♓	
evening set	1061 Mar 03 j 05:52	23°♓52'26	
inferior conj	1061 Mar 06 j 11:33	21°♓50'40	8°25'19
minimum elong	1061 Mar 06 j 16:25	21°♓42'57	8°24'58
min. Earth dist.	1061 Mar 06 j 02:27	22°♓05'05	0.28220 AU
morning rise	1061 Mar 10 j 03:11	19°♓34'08	
direct	1061 Mar 27 j 12:08	13°♓46'07	
greatest brilliancy	1061 Apr 05 j 20:10	15°♓22'13	-4.8m
desc. node	1061 Apr 23 j 04:58	24°♓54'04	
	1061 Apr 29 j 19:48	0°♈	
morning max el	1061 May 15 j 10:48	13°♈56'48	45°50'52
	1061 May 31 j 10:26	0°♉	
	1061 Jun 27 j 23:44	0°♊	
	1061 Jul 24 j 01:42	0°♋	
asc. node	1061 Aug 14 j 08:30	25°♋16'17	
	1061 Aug 18 j 06:45	0°♌	
	1061 Sep 11 j 21:05	0°♍	
	1061 Oct 06 j 01:26	0°♎	
	1061 Oct 30 j 00:02	0°♏	
greatest brilliancy	1061 Oct 31 j 07:46	1°♏39'42	-3.9m
morning set	1061 Nov 09 j 23:56	13°♏49'34	
	1061 Nov 22 j 20:17	0°♐	
desc. node	1061 Dec 03 j 21:50	13°♐55'45	
	1061 Dec 16 j 16:16	0°♑	
superior conj	1061 Dec 21 j 11:19	6°♑01'50	-0°40'18
minimum elong	1061 Dec 21 j 01:29	5°♑30'53	0°39'53
max. Earth dist.	1061 Dec 23 j 11:34	8°♑33'29	1.71128 AU
	1062 Jan 09 j 13:14	0°♒	
evening rise	1062 Jan 31 j 18:54	27°♒50'44	
	1062 Feb 02 j 12:18	0°♓	
	1062 Feb 26 j 15:04	0°♈	
	1062 Mar 22 j 23:24	0°♉	

asc. node	1062 Mar 27 j 01:26	4°♉59'54	
	1062 Apr 16 j 15:14	0°♊	
	1062 May 11 j 17:03	0°♋	
	1062 Jun 06 j 09:32	0°♌	
	1062 Jul 03 j 03:58	0°♍	
desc. node	1062 Jul 16 j 14:29	14°♍16'21	
evening max el	1062 Jul 29 j 16:09	27°♍20'12	45°58'18
	1062 Aug 01 j 11:27	0°♎	
greatest brilliancy	1062 Sep 07 j 21:47	26°♎13'39	-4.8m
retrograde	1062 Sep 16 j 21:55	27°♎43'23	
evening set	1062 Oct 03 j 10:10	22°♎32'54	
inferior conj	1062 Oct 07 j 16:59	20°♎00'11	-6°45'03
minimum elong	1062 Oct 08 j 03:31	19°♎44'10	6°42'53
min. Earth dist.	1062 Oct 08 j 14:10	19°♎27'58	0.27150 AU
morning rise	1062 Oct 12 j 20:20	16°♎57'25	
direct	1062 Oct 28 j 11:29	12°♎09'20	
asc. node	1062 Nov 06 j 17:52	13°♎47'54	
greatest brilliancy	1062 Nov 08 j 13:55	14°♎28'38	-4.9m
	1062 Dec 01 j 19:38	0°♏	
morning max el	1062 Dec 18 j 07:07	15°♏41'06	46°57'03
	1062 Dec 31 j 19:38	0°♐	
	1063 Jan 27 j 07:33	0°♑	
	1063 Feb 21 j 18:06	0°♒	
desc. node	1063 Feb 26 j 07:29	5°♒26'26	
	1063 Mar 18 j 18:29	0°♓	
	1063 Apr 12 j 14:19	0°♈	
	1063 May 07 j 07:49	0°♉	
	1063 May 31 j 23:14	0°♊	
asc. node	1063 Jun 19 j 10:49	22°♊35'40	
morning set	1063 Jun 19 j 18:22	22°♊58'47	
	1063 Jun 25 j 11:46	0°♋	
	1063 Jul 19 j 20:40	0°♌	
max. Earth dist.	1063 Jul 22 j 21:17	3°♌44'14	1.73080 AU
superior conj	1063 Jul 26 j 02:25	7°♌42'40	1°12'35
minimum elong	1063 Jul 25 j 18:33	7°♌18'22	1°12'23
	1063 Aug 13 j 02:08	0°♍	
evening rise	1063 Aug 31 j 13:27	22°♍57'12	
	1063 Sep 06 j 05:24	0°♎	
	1063 Sep 30 j 07:58	0°♏	
desc. node	1063 Oct 09 j 00:20	10°♏48'05	
	1063 Oct 24 j 10:59	0°♐	
	1063 Nov 17 j 15:29	0°♑	
	1063 Dec 11 j 23:36	0°♒	
	1064 Jan 05 j 16:21	0°♓	
asc. node	1064 Jan 30 j 03:29	28°♓48'49	
	1064 Jan 31 j 04:16	0°♈	
	1064 Feb 27 j 12:15	0°♉	
evening max el	1064 Mar 05 j 20:22	7°♉24'57	46°00'08
	1064 Apr 01 j 11:34	0°♊	
greatest brilliancy	1064 Apr 13 j 03:25	6°♊10'35	-4.7m
retrograde	1064 Apr 24 j 03:25	8°♊22'25	
evening set	1064 May 09 j 08:35	3°♊51'12	
inferior conj	1064 May 15 j 13:17	0°♊07'01	1°12'30
minimum elong	1064 May 15 j 15:55	0°♊02'52	1°11'44
min. Earth dist.	1064 May 15 j 15:02	0°♊04'16	0.28926 AU
	1064 May 15 j 17:45	30°℞♉	
desc. node	1064 May 20 j 16:47	26°♉58'46	
morning rise	1064 May 21 j 23:27	26°♉15'41	
direct	1064 Jun 06 j 03:42	21°♉49'31	
greatest brilliancy	1064 Jun 16 j 11:29	23°♉44'47	-4.7m
	1064 Jun 28 j 17:52	0°♊	
morning max el	1064 Jul 25 j 00:41	21°♊40'52	45°49'29
	1064 Aug 02 j 11:13	0°♋	
	1064 Aug 30 j 07:42	0°♌	
asc. node	1064 Sep 10 j 20:30	13°♌12'32	
	1064 Sep 25 j 03:10	0°♍	
	1064 Oct 19 j 22:12	0°♎	
	1064 Nov 13 j 04:25	0°♏	
	1064 Dec 07 j 04:48	0°♐	
desc. node	1064 Dec 31 j 09:44	0°♑19'58	
	1064 Dec 31 j 03:21	0°♑	
	1065 Jan 24 j 02:14	0°♒	
morning set	1065 Jan 26 j 05:13	2°♒39'25	
	1065 Feb 17 j 02:40	0°♓	
superior conj	1065 Mar 07 j 11:25	22°♓51'01	-1°22'47
minimum elong	1065 Mar 07 j 16:50	23°♓07'51	1°22'44
max. Earth dist.	1065 Mar 11 j 06:49	27°♓34'43	1.72461 AU
	1065 Mar 13 j 05:39	0°♈	
	1065 Apr 06 j 11:51	0°♉	
evening rise	1065 Apr 15 j 02:28	10°♉36'22	
asc. node	1065 Apr 23 j 13:14	20°♉59'20	
	1065 Apr 30 j 21:32	0°♊	
	1065 May 25 j 10:45	0°♋	
	1065 Jun 19 j 03:58	0°♌	
	1065 Jul 14 j 02:53	0°♍	
	1065 Aug 08 j 10:50	0°♎	
desc. node	1065 Aug 13 j 02:29	5°♎26'34	
	1065 Sep 03 j 10:11	0°♏	
	1065 Sep 30 j 17:04	0°♐	
evening max el	1065 Oct 11 j 03:37	10°♐44'12	47°07'52
	1065 Nov 01 j 08:09	0°♑	
greatest brilliancy	1065 Nov 20 j 14:37	11°♑41'20	-4.9m
retrograde	1065 Nov 30 j 17:24	13°♑37'32	
asc. node	1065 Dec 04 j 05:48	13°♑22'14	
evening set	1065 Dec 15 j 07:04	9°♑22'01	
min. Earth dist.	1065 Dec 20 j 13:02	6°♑16'33	0.26553 AU
inferior conj	1065 Dec 21 j 06:12	5°♑50'10	4°14'27
minimum elong	1065 Dec 20 j 21:36	6°♑03'24	4°12'00
morning rise	1065 Dec 26 j 12:40	2°♑42'52	
	1066 Jan 01 j 06:57	30°℞♐	
direct	1066 Jan 10 j 15:15	28°♐12'49	
greatest brilliancy	1066 Jan 19 j 22:50	29°♐52'06	-4.9m
	1066 Jan 20 j 07:55	0°♑	
	1066 Mar 01 j 07:03	0°♒	
morning max el	1066 Mar 01 j 14:08	0°♒17'31	46°31'55
desc. node	1066 Mar 25 j 19:21	25°♒41'20	
	1066 Mar 29 j 17:21	0°♓	
	1066 Apr 25 j 05:13	0°♈	
	1066 May 20 j 22:10	0°♉	
	1066 Jun 15 j 04:15	0°♊	
	1066 Jul 10 j 01:39	0°♋	
asc. node	1066 Jul 16 j 22:43	8°♋21'42	
	1066 Aug 03 j 14:57	0°♌	
morning set	1066 Aug 27 j 02:31	29°♌01'59	
	1066 Aug 27 j 21:11	0°♍	
	1066 Sep 20 j 22:19	0°♎	
max. Earth dist.	1066 Oct 01 j 03:07	12°♎46'37	1.71602 AU
superior conj	1066 Oct 03 j 19:30	16°♎08'23	1°07'32
minimum elong	1066 Oct 04 j 05:27	16°♎39'35	1°07'14
	1066 Oct 14 j 20:40	0°♏	
desc. node	1066 Nov 05 j 12:08	27°♏10'42	
	1066 Nov 07 j 18:04	0°♐	
evening rise	1066 Nov 13 j 01:44	6°♐40'42	
	1066 Dec 01 j 15:44	0°♑	
	1066 Dec 25 j 14:48	0°♒	
	1067 Jan 18 j 17:17	0°♓	
	1067 Feb 12 j 02:32	0°♈	
asc. node	1067 Feb 26 j 15:31	17°♈37'48	
	1067 Mar 08 j 23:37	0°♉	
	1067 Apr 03 j 16:40	0°♊	
	1067 Apr 30 j 23:37	0°♋	

evening max el	1067 May 16 j 09:41	15°♋30'53	45°20'43
	1067 Jun 01 j 18:53	0°♌	
desc. node	1067 Jun 18 j 04:47	10°♌51'52	
greatest brilliancy	1067 Jun 23 j 13:35	13°♌10'12	-4.7m
retrograde	1067 Jul 03 j 21:35	15°♌05'12	
evening set	1067 Jul 20 j 12:28	9°♌54'37	
inferior conj	1067 Jul 25 j 08:02	6°♌59'58	-7°20'27
minimum elong	1067 Jul 24 j 22:53	7°♌14'10	7°19'02
min. Earth dist.	1067 Jul 25 j 12:59	6°♌52'15	0.28772 AU
morning rise	1067 Jul 29 j 09:01	4°♌31'23	
	1067 Aug 07 j 23:21	30°℞♋	
direct	1067 Aug 15 j 21:23	28°♋45'31	
	1067 Aug 24 j 02:23	0°♌	
greatest brilliancy	1067 Aug 26 j 16:58	0°♌52'15	-4.8m
	1067 Oct 04 j 09:02	0°♍	
morning max el	1067 Oct 04 j 18:20	0°♍23'09	46°27'28
asc. node	1067 Oct 09 j 08:08	5°♍01'18	
	1067 Nov 01 j 06:42	0°♎	
	1067 Nov 26 j 21:27	0°♏	
	1067 Dec 21 j 15:12	0°♐	
	1068 Jan 15 j 00:38	0°♑	
desc. node	1068 Jan 28 j 21:39	17°♑08'07	
	1068 Feb 08 j 07:21	0°♒	
	1068 Mar 03 j 13:51	0°♓	
	1068 Mar 27 j 21:19	0°♈	
morning set	1068 Apr 09 j 12:03	15°♈32'22	
	1068 Apr 21 j 06:09	0°♉	
	1068 May 15 j 16:03	0°♊	
superior conj	1068 May 16 j 14:32	1°♊09'02	-0°10'32
minimum elong	1068 May 16 j 16:43	1°♊15'45	0°10'26
behind sun begin	1068 May 15 j 23:26	0°♊22'43	
behind sun end	1068 May 17 j 09:59	2°♊08'46	
max. Earth dist.	1068 May 16 j 17:16	1°♊17'27	1.73582 AU
asc. node	1068 May 21 j 01:02	6°♊36'00	
	1068 Jun 09 j 02:14	0°♋	
evening rise	1068 Jun 21 j 17:57	15°♋32'51	
	1068 Jul 03 j 12:11	0°♌	
	1068 Jul 27 j 22:11	0°♍	
	1068 Aug 21 j 09:23	0°♎	
desc. node	1068 Sep 09 j 14:28	23°♎27'53	
	1068 Sep 14 j 23:18	0°♏	
	1068 Oct 09 j 17:46	0°♐	
	1068 Nov 03 j 20:35	0°♑	
	1068 Nov 29 j 18:29	0°♒	
evening max el	1068 Dec 22 j 02:44	24°♒08'32	47°09'53
	1068 Dec 27 j 23:18	0°♓	
asc. node	1068 Dec 31 j 17:44	3°♓37'19	
greatest brilliancy	1069 Jan 31 j 13:31	25°♓41'43	-4.9m
retrograde	1069 Feb 10 j 23:51	27°♓46'15	
evening set	1069 Feb 28 j 22:30	21°♓32'39	
min. Earth dist.	1069 Mar 03 j 16:55	19°♓48'53	0.28178 AU
inferior conj	1069 Mar 04 j 02:46	19°♓33'19	8°30'35
minimum elong	1069 Mar 04 j 06:55	19°♓26'46	8°30'20
morning rise	1069 Mar 07 j 15:31	17°♓21'21	
direct	1069 Mar 25 j 02:14	11°♓29'16	
greatest brilliancy	1069 Apr 03 j 10:20	13°♓05'30	-4.8m
desc. node	1069 Apr 22 j 06:56	23°♓42'54	
	1069 Apr 30 j 03:47	0°♈	
morning max el	1069 May 13 j 02:09	11°♈43'17	45°51'47
	1069 May 31 j 04:30	0°♉	
	1069 Jun 27 j 14:09	0°♊	
	1069 Jul 23 j 14:31	0°♋	
asc. node	1069 Aug 13 j 10:37	24°♋46'11	
	1069 Aug 17 j 18:46	0°♌	
	1069 Sep 11 j 08:41	0°♍	
	1069 Oct 05 j 12:48	0°♎	
	1069 Oct 29 j 11:19	0°♏	
greatest brilliancy	1069 Oct 31 j 07:42	2°♏19'27	-3.9m
morning set	1069 Nov 07 j 11:44	11°♏20'16	
	1069 Nov 22 j 07:31	0°♐	
desc. node	1069 Dec 02 j 23:58	13°♐27'11	
	1069 Dec 16 j 03:29	0°♑	
superior conj	1069 Dec 18 j 21:05	3°♑26'24	-0°36'43
minimum elong	1069 Dec 18 j 11:55	2°♑57'35	0°36'19
max. Earth dist.	1069 Dec 20 j 18:55	5°♑50'31	1.71108 AU
	1070 Jan 09 j 00:24	0°♒	
evening rise	1070 Jan 29 j 06:09	25°♒21'04	
	1070 Feb 01 j 23:29	0°♓	
	1070 Feb 26 j 02:19	0°♈	
	1070 Mar 22 j 10:51	0°♉	
asc. node	1070 Mar 26 j 03:23	4°♉30'45	
	1070 Apr 16 j 03:05	0°♊	
	1070 May 11 j 05:36	0°♋	
	1070 Jun 05 j 23:28	0°♌	
	1070 Jul 02 j 20:51	0°♍	
desc. node	1070 Jul 15 j 16:40	13°♍31'26	
evening max el	1070 Jul 27 j 06:21	25°♍02'13	45°56'00
	1070 Aug 01 j 13:11	0°♎	
greatest brilliancy	1070 Sep 05 j 09:20	23°♎48'58	-4.8m
retrograde	1070 Sep 14 j 10:54	25°♎19'23	
evening set	1070 Oct 01 j 02:11	20°♎03'51	
inferior conj	1070 Oct 05 j 05:53	17°♎35'21	-6°59'26
minimum elong	1070 Oct 05 j 16:14	17°♎19'35	6°57'26
min. Earth dist.	1070 Oct 06 j 03:03	17°♎03'09	0.27215 AU
morning rise	1070 Oct 10 j 05:52	14°♎37'21	
direct	1070 Oct 26 j 01:48	9°♎43'35	
asc. node	1070 Nov 05 j 19:56	11°♎55'09	
greatest brilliancy	1070 Nov 06 j 03:36	12°♎02'42	-4.9m
	1070 Dec 02 j 03:24	0°♏	
morning max el	1070 Dec 15 j 22:07	13°♏18'40	46°57'05
	1070 Dec 31 j 14:24	0°♐	
	1071 Jan 26 j 22:39	0°♑	
	1071 Feb 21 j 07:29	0°♒	
desc. node	1071 Feb 25 j 09:33	4°♒53'13	
	1071 Mar 18 j 06:51	0°♓	
	1071 Apr 12 j 02:05	0°♈	
	1071 May 06 j 19:11	0°♉	
	1071 May 31 j 10:21	0°♊	
morning set	1071 Jun 17 j 12:39	20°♊54'07	
asc. node	1071 Jun 18 j 12:59	22°♊08'40	
	1071 Jun 24 j 22:44	0°♋	
	1071 Jul 19 j 07:35	0°♌	
max. Earth dist.	1071 Jul 20 j 16:44	1°♌42'20	1.73121 AU
superior conj	1071 Jul 23 j 20:25	5°♌36'10	1°10'53
minimum elong	1071 Jul 23 j 12:19	5°♌11'06	1°10'41
	1071 Aug 12 j 13:07	0°♍	
evening rise	1071 Aug 29 j 05:28	20°♍43'13	
	1071 Sep 05 j 16:33	0°♎	
	1071 Sep 29 j 19:22	0°♏	
desc. node	1071 Oct 08 j 02:17	10°♏18'24	
	1071 Oct 23 j 22:42	0°♐	
	1071 Nov 17 j 03:33	0°♑	
	1071 Dec 11 j 12:09	0°♒	
	1072 Jan 05 j 05:44	0°♓	
asc. node	1072 Jan 29 j 05:38	28°♓11'56	
	1072 Jan 30 j 19:22	0°♈	
	1072 Feb 27 j 07:58	0°♉	
evening max el	1072 Mar 03 j 12:52	5°♉13'47	46°02'29
	1072 Apr 02 j 14:44	0°♊	
greatest brilliancy	1072 Apr 10 j 20:32	4°♊02'24	-4.7m
retrograde	1072 Apr 21 j 20:10	6°♊13'40	

evening set	1072 May 07 j 02:40	1°♊40'50	
	1072 May 09 j 23:37	30℞♉	
inferior conj	1072 May 13 j 05:54	27°♉58'12	1°31'55
minimum elong	1072 May 13 j 09:14	27°♉52'58	1°30'58
min. Earth dist.	1072 May 13 j 07:34	27°♉55'34	0.28917 AU
morning rise	1072 May 19 j 16:03	24°♉06'41	
desc. node	1072 May 19 j 18:53	24°♉02'49	
direct	1072 Jun 03 j 20:34	19°♉41'01	
greatest brilliancy	1072 Jun 14 j 02:47	21°♉34'58	-4.7m
	1072 Jun 29 j 14:48	0°♊	
morning max el	1072 Jul 22 j 16:39	19°♊30'44	45°48'34
	1072 Aug 02 j 06:30	0°♋	
	1072 Aug 29 j 22:30	0°♌	
asc. node	1072 Sep 09 j 22:28	12°♌37'49	
	1072 Sep 24 j 16:15	0°♍	
	1072 Oct 19 j 10:28	0°♎	
	1072 Nov 12 j 16:15	0°♏	
	1072 Dec 06 j 16:22	0°♐	
desc. node	1072 Dec 30 j 11:50	29°♐50'53	
	1072 Dec 30 j 14:44	0°♑	
morning set	1073 Jan 23 j 15:38	0°♒06'50	
	1073 Jan 23 j 13:27	0°♒	
	1073 Feb 16 j 13:46	0°♓	
superior conj	1073 Mar 05 j 01:03	20°♓30'08	-1°23'41
minimum elong	1073 Mar 05 j 05:43	20°♓44'36	1°23'37
max. Earth dist.	1073 Mar 09 j 00:23	25°♓26'12	1.72400 AU
	1073 Mar 12 j 16:37	0°♈	
	1073 Apr 05 j 22:46	0°♉	
evening rise	1073 Apr 12 j 18:42	8°♉24'58	
asc. node	1073 Apr 22 j 15:18	20°♉32'10	
	1073 Apr 30 j 08:30	0°♊	
	1073 May 24 j 21:55	0°♋	
	1073 Jun 18 j 15:34	0°♌	
	1073 Jul 13 j 15:12	0°♍	
	1073 Aug 08 j 00:21	0°♎	
desc. node	1073 Aug 12 j 04:28	4°♎52'11	
	1073 Sep 03 j 01:50	0°♏	
	1073 Sep 30 j 13:31	0°♐	
evening max el	1073 Oct 08 j 17:07	8°♐19'16	47°06'00
	1073 Nov 02 j 02:26	0°♑	
greatest brilliancy	1073 Nov 18 j 04:46	9°♑13'20	-4.9m
retrograde	1073 Nov 28 j 05:25	11°♑07'34	
asc. node	1073 Dec 03 j 07:55	10°♑35'26	
evening set	1073 Dec 12 j 17:48	6°♑55'20	
min. Earth dist.	1073 Dec 18 j 02:57	3°♑45'33	0.26517 AU
inferior conj	1073 Dec 18 j 18:37	3°♑21'29	3°52'56
minimum elong	1073 Dec 18 j 10:34	3°♑33'51	3°50'34
morning rise	1073 Dec 24 j 03:46	0°♑10'16	
	1073 Dec 24 j 11:17	30℞♐	
direct	1074 Jan 08 j 03:08	25°♐44'35	
greatest brilliancy	1074 Jan 17 j 12:59	27°♐25'28	-4.9m
	1074 Jan 23 j 11:54	0°♑	
morning max el	1074 Feb 27 j 02:13	27°♑50'51	46°33'30
	1074 Mar 01 j 06:03	0°♒	
desc. node	1074 Mar 24 j 21:16	25°♒00'06	
	1074 Mar 29 j 09:40	0°♓	
	1074 Apr 24 j 18:56	0°♈	
	1074 May 20 j 10:33	0°♉	
	1074 Jun 14 j 15:51	0°♊	
	1074 Jul 09 j 12:49	0°♋	
asc. node	1074 Jul 16 j 00:48	7°♋54'15	
	1074 Aug 03 j 01:55	0°♌	
morning set	1074 Aug 24 j 18:48	26°♌49'37	
	1074 Aug 27 j 08:05	0°♍	
	1074 Sep 20 j 09:15	0°♎	
max. Earth dist.	1074 Sep 28 j 13:59	10°♎15'55	1.71652 AU
superior conj	1074 Oct 01 j 09:26	13°♎47'18	1°09'38
minimum elong	1074 Oct 01 j 19:05	14°♎17'32	1°09'22
	1074 Oct 14 j 07:40	0°♏	
desc. node	1074 Nov 04 j 14:16	26°♏42'33	
	1074 Nov 07 j 05:11	0°♐	
evening rise	1074 Nov 10 j 12:24	4°♐08'36	
	1074 Dec 01 j 02:58	0°♑	
	1074 Dec 25 j 02:12	0°♒	
	1075 Jan 18 j 04:55	0°♓	
	1075 Feb 11 j 14:32	0°♈	
asc. node	1075 Feb 25 j 17:28	17°♈06'29	
	1075 Mar 08 j 12:20	0°♉	
	1075 Apr 03 j 06:52	0°♊	
	1075 Apr 30 j 17:33	0°♋	
evening max el	1075 May 14 j 00:22	13°♋17'48	45°21'00
	1075 Jun 02 j 05:36	0°♌	
desc. node	1075 Jun 17 j 06:53	9°♌23'12	
greatest brilliancy	1075 Jun 21 j 03:41	10°♌58'46	-4.7m
retrograde	1075 Jul 01 j 13:14	12°♌55'35	
evening set	1075 Jul 18 j 01:03	7°♌48'49	
inferior conj	1075 Jul 22 j 23:57	4°♌49'34	-7°09'15
minimum elong	1075 Jul 22 j 14:31	5°♌04'13	7°07'41
min. Earth dist.	1075 Jul 23 j 04:25	4°♌42'39	0.28802 AU
morning rise	1075 Jul 27 j 03:42	2°♌17'04	
	1075 Jul 31 j 07:38	30℞♋	
direct	1075 Aug 13 j 13:13	26°♋34'30	
greatest brilliancy	1075 Aug 24 j 09:29	28°♋41'43	-4.8m
	1075 Aug 27 j 12:24	0°♌	
morning max el	1075 Oct 02 j 09:25	28°♌06'37	46°25'54
	1075 Oct 04 j 06:41	0°♍	
asc. node	1075 Oct 08 j 10:14	4°♍14'40	
	1075 Oct 31 j 22:29	0°♎	
	1075 Nov 26 j 11:07	0°♏	
	1075 Dec 21 j 03:49	0°♐	
	1076 Jan 14 j 12:37	0°♑	
desc. node	1076 Jan 27 j 23:42	16°♑38'14	
	1076 Feb 07 j 18:55	0°♒	
	1076 Mar 03 j 01:05	0°♓	
	1076 Mar 27 j 08:18	0°♈	
morning set	1076 Apr 07 j 04:09	13°♈20'39	
	1076 Apr 20 j 16:56	0°♉	
superior conj	1076 May 14 j 08:23	29°♉03'41	-0°13'42
minimum elong	1076 May 14 j 11:13	29°♉12'24	0°13'34
behind sun begin	1076 May 13 j 23:19	28°♉35'50	
behind sun end	1076 May 14 j 23:07	29°♉48'57	
max. Earth dist.	1076 May 14 j 13:30	29°♉19'25	1.73566 AU
	1076 May 15 j 02:43	0°♊	
asc. node	1076 May 20 j 03:14	6°♊10'01	
	1076 Jun 08 j 12:54	0°♋	
evening rise	1076 Jun 19 j 13:14	13°♋31'46	
	1076 Jul 02 j 22:58	0°♌	
	1076 Jul 27 j 09:12	0°♍	
	1076 Aug 20 j 20:49	0°♎	
desc. node	1076 Sep 08 j 16:26	22°♎57'41	
	1076 Sep 14 j 11:20	0°♏	
	1076 Oct 09 j 06:41	0°♐	
	1076 Nov 03 j 10:53	0°♑	
	1076 Nov 29 j 11:29	0°♒	
evening max el	1076 Dec 19 j 17:30	21°♒47'43	47°11'31
	1076 Dec 28 j 00:17	0°♓	
asc. node	1076 Dec 30 j 19:49	2°♓39'23	
greatest brilliancy	1077 Jan 29 j 04:34	23°♓23'06	-4.9m
retrograde	1077 Feb 08 j 15:37	25°♓28'34	
evening set	1077 Feb 26 j 14:41	19°♓13'10	
inferior conj	1077 Mar 01 j 17:47	17°♓15'52	8°35'09
minimum elong	1077 Mar 01 j 21:10	17°♓10'30	8°34'58

min. Earth dist.	1077 Mar 01 j 06:50	17°♓33'07	0.28132 AU
morning rise	1077 Mar 05 j 03:51	15°♓08'15	
direct	1077 Mar 22 j 16:35	9°♓12'29	
greatest brilliancy	1077 Mar 31 j 23:46	10°♓48'26	-4.8m
desc. node	1077 Apr 21 j 09:07	22°♓34'45	
	1077 Apr 30 j 09:08	0°♈	
morning max el	1077 May 10 j 18:05	9°♈31'58	45°52'48
	1077 May 30 j 21:48	0°♉	
	1077 Jun 27 j 04:03	0°♊	
	1077 Jul 23 j 02:53	0°♋	
asc. node	1077 Aug 12 j 12:36	24°♋17'03	
	1077 Aug 17 j 06:21	0°♌	
	1077 Sep 10 j 19:51	0°♍	
	1077 Oct 04 j 23:47	0°♎	
	1077 Oct 28 j 22:15	0°♏	
greatest brilliancy	1077 Oct 30 j 23:50	2°♏35'49	-3.9m
morning set	1077 Nov 04 j 23:39	8°♏52'24	
	1077 Nov 21 j 18:28	0°♐	
desc. node	1077 Dec 02 j 02:06	12°♐59'25	
	1077 Dec 15 j 14:27	0°♑	
superior conj	1077 Dec 16 j 06:24	0°♑50'12	-0°33'01
minimum elong	1077 Dec 15 j 22:00	0°♑23'47	0°32'37
max. Earth dist.	1077 Dec 18 j 02:47	3°♑09'47	1.71095 AU
	1078 Jan 08 j 11:22	0°♒	
evening rise	1078 Jan 26 j 16:45	22°♒49'58	
	1078 Feb 01 j 10:26	0°♓	
	1078 Feb 25 j 13:20	0°♈	
	1078 Mar 21 j 22:02	0°♉	
asc. node	1078 Mar 25 j 05:29	4°♉02'54	
	1078 Apr 15 j 14:39	0°♊	
	1078 May 10 j 17:54	0°♋	
	1078 Jun 05 j 13:09	0°♌	
	1078 Jul 02 j 13:35	0°♍	
desc. node	1078 Jul 14 j 18:41	12°♍46'51	
evening max el	1078 Jul 24 j 21:08	22°♍47'15	45°53'51
	1078 Aug 01 j 15:38	0°♎	
greatest brilliancy	1078 Sep 02 j 21:24	21°♎27'27	-4.8m
retrograde	1078 Sep 11 j 23:54	22°♎58'06	
evening set	1078 Sep 28 j 18:33	17°♎37'56	
inferior conj	1078 Oct 02 j 19:11	15°♎13'26	-7°12'50
minimum elong	1078 Oct 03 j 05:18	14°♎58'01	7°11'00
min. Earth dist.	1078 Oct 03 j 16:11	14°♎41'26	0.27280 AU
morning rise	1078 Oct 07 j 15:41	12°♎20'09	
direct	1078 Oct 23 j 16:31	7°♎20'57	
greatest brilliancy	1078 Nov 03 j 17:25	9°♎39'16	-4.9m
asc. node	1078 Nov 04 j 22:05	10°♎09'05	
	1078 Dec 02 j 08:17	0°♏	
morning max el	1078 Dec 13 j 12:22	10°♏55'39	46°56'38
	1078 Dec 31 j 08:19	0°♐	
	1079 Jan 26 j 13:18	0°♑	
	1079 Feb 20 j 20:32	0°♒	
desc. node	1079 Feb 24 j 11:31	4°♒20'28	
	1079 Mar 17 j 18:57	0°♓	
	1079 Apr 11 j 13:33	0°♈	
	1079 May 06 j 06:14	0°♉	
	1079 May 30 j 21:08	0°♊	
morning set	1079 Jun 15 j 06:50	18°♊50'14	
asc. node	1079 Jun 17 j 15:00	21°♊42'12	
	1079 Jun 24 j 09:22	0°♋	
max. Earth dist.	1079 Jul 18 j 10:46	29°♋37'10	1.73157 AU
	1079 Jul 18 j 18:10	0°♌	
superior conj	1079 Jul 21 j 14:37	3°♌31'21	1°09'07
minimum elong	1079 Jul 21 j 06:18	3°♌05'39	1°08'52
	1079 Aug 11 j 23:46	0°♍	
evening rise	1079 Aug 26 j 21:53	18°♍31'40	
	1079 Sep 05 j 03:21	0°♎	
	1079 Sep 29 j 06:24	0°♏	
desc. node	1079 Oct 07 j 04:26	9°♏50'37	
	1079 Oct 23 j 10:01	0°♐	
	1079 Nov 16 j 15:15	0°♑	
	1079 Dec 11 j 00:25	0°♒	
	1080 Jan 04 j 18:57	0°♓	
asc. node	1080 Jan 28 j 07:34	27°♓34'42	
	1080 Jan 30 j 10:30	0°♈	
	1080 Feb 27 j 04:13	0°♉	
evening max el	1080 Mar 01 j 04:23	3°♉00'12	46°04'45
	1080 Apr 04 j 06:05	0°♊	
greatest brilliancy	1080 Apr 08 j 14:04	1°♊54'25	-4.8m
retrograde	1080 Apr 19 j 12:17	4°♊04'31	
	1080 May 03 j 22:37	30°℞♉	
evening set	1080 May 04 j 20:37	29°♉29'54	
inferior conj	1080 May 10 j 22:17	25°♉49'09	1°51'26
minimum elong	1080 May 11 j 02:16	25°♉42'52	1°50'17
min. Earth dist.	1080 May 11 j 00:11	25°♉46'08	0.28904 AU
morning rise	1080 May 17 j 08:10	21°♉57'33	
desc. node	1080 May 18 j 20:58	21°♉08'58	
direct	1080 Jun 01 j 12:46	17°♉32'18	
greatest brilliancy	1080 Jun 11 j 18:14	19°♉25'22	-4.7m
	1080 Jun 30 j 06:09	0°♊	
morning max el	1080 Jul 20 j 07:30	17°♊18'30	45°47'51
	1080 Aug 02 j 00:59	0°♋	
	1080 Aug 29 j 12:49	0°♌	
asc. node	1080 Sep 09 j 00:30	12°♌04'28	
	1080 Sep 24 j 04:55	0°♍	
	1080 Oct 18 j 22:21	0°♎	
	1080 Nov 12 j 03:43	0°♏	
	1080 Dec 06 j 03:34	0°♐	
desc. node	1080 Dec 29 j 13:49	29°♐22'36	
	1080 Dec 30 j 01:45	0°♑	
morning set	1081 Jan 21 j 02:05	27°♑35'11	
	1081 Jan 23 j 00:21	0°♒	
	1081 Feb 16 j 00:35	0°♓	
superior conj	1081 Mar 02 j 14:25	18°♓08'59	-1°24'25
minimum elong	1081 Mar 02 j 18:13	18°♓20'50	1°24'22
max. Earth dist.	1081 Mar 06 j 16:02	23°♓12'17	1.72346 AU
	1081 Mar 12 j 03:23	0°♈	
	1081 Apr 05 j 09:31	0°♉	
evening rise	1081 Apr 10 j 10:17	6°♉12'05	
asc. node	1081 Apr 21 j 17:26	20°♉05'37	
	1081 Apr 29 j 19:19	0°♊	
	1081 May 24 j 08:57	0°♋	
	1081 Jun 18 j 03:01	0°♌	
	1081 Jul 13 j 03:23	0°♍	
	1081 Aug 07 j 13:46	0°♎	
desc. node	1081 Aug 11 j 06:29	4°♎18'15	
	1081 Sep 02 j 17:30	0°♏	
	1081 Sep 30 j 10:22	0°♐	
evening max el	1081 Oct 06 j 05:48	5°♐53'10	47°04'12
	1081 Nov 03 j 02:24	0°♑	
greatest brilliancy	1081 Nov 15 j 19:03	6°♑46'34	-4.9m
retrograde	1081 Nov 25 j 17:30	8°♑39'10	
asc. node	1081 Dec 02 j 09:56	7°♑44'05	
evening set	1081 Dec 10 j 04:51	4°♑29'27	
min. Earth dist.	1081 Dec 15 j 17:04	1°♑15'45	0.26485 AU
inferior conj	1081 Dec 16 j 07:09	0°♑54'10	3°30'52
minimum elong	1081 Dec 15 j 23:43	1°♑05'34	3°28'39
	1081 Dec 17 j 18:32	30°℞♐	
morning rise	1081 Dec 21 j 18:53	27°♐39'22	
direct	1082 Jan 05 j 14:50	23°♐17'28	
greatest brilliancy	1082 Jan 15 j 03:28	25°♐00'30	-4.9m
	1082 Jan 25 j 07:54	0°♑	

morning max el	1082 Feb 24 j 14:34	25°♋25'33	46°34'57
	1082 Mar 01 j 03:48	0°♒	
desc. node	1082 Mar 23 j 23:28	24°♒20'47	
	1082 Mar 29 j 01:29	0°♓	
	1082 Apr 24 j 08:25	0°♈	
	1082 May 19 j 22:48	0°♉	
	1082 Jun 14 j 03:23	0°♊	
	1082 Jul 08 j 23:55	0°♋	
asc. node	1082 Jul 15 j 02:47	7°♋26'44	
	1082 Aug 02 j 12:47	0°♌	
morning set	1082 Aug 22 j 10:54	24°♌37'06	
	1082 Aug 26 j 18:53	0°♍	
	1082 Sep 19 j 20:04	0°♎	
max. Earth dist.	1082 Sep 26 j 03:34	7°♎54'11	1.71701 AU
superior conj	1082 Sep 28 j 23:21	11°♎26'32	1°11'38
minimum elong	1082 Sep 29 j 08:38	11°♎55'36	1°11'23
	1082 Oct 13 j 18:34	0°♏	
desc. node	1082 Nov 03 j 16:20	26°♏14'34	
	1082 Nov 06 j 16:11	0°♐	
evening rise	1082 Nov 07 j 23:15	1°♐37'28	
	1082 Nov 30 j 14:06	0°♑	
	1082 Dec 24 j 13:28	0°♒	
	1083 Jan 17 j 16:23	0°♓	
	1083 Feb 11 j 02:23	0°♈	
asc. node	1083 Feb 24 j 19:36	16°♈36'04	
	1083 Mar 08 j 00:57	0°♉	
	1083 Apr 02 j 21:09	0°♊	
	1083 Apr 30 j 11:59	0°♋	
evening max el	1083 May 11 j 15:32	11°♋05'47	45°21'14
	1083 Jun 02 j 20:19	0°♌	
desc. node	1083 Jun 16 j 08:54	7°♌50'44	
greatest brilliancy	1083 Jun 18 j 17:19	8°♌46'13	-4.7m
retrograde	1083 Jun 29 j 05:11	10°♌45'05	
evening set	1083 Jul 15 j 13:29	5°♌42'06	
inferior conj	1083 Jul 20 j 15:39	2°♌38'17	-6°57'16
minimum elong	1083 Jul 20 j 06:00	2°♌53'15	6°55'35
min. Earth dist.	1083 Jul 20 j 19:22	2°♌32'31	0.28829 AU
morning rise	1083 Jul 24 j 22:14	0°♌01'48	
	1083 Jul 24 j 23:28	30°℞♋	
direct	1083 Aug 11 j 05:13	24°♋22'43	
greatest brilliancy	1083 Aug 22 j 01:15	26°♋29'57	-4.8m
	1083 Aug 29 j 10:48	0°♌	
morning max el	1083 Sep 30 j 01:02	25°♌51'34	46°24'22
	1083 Oct 04 j 03:36	0°♍	
asc. node	1083 Oct 07 j 12:25	3°♍28'52	
	1083 Oct 31 j 14:01	0°♎	
	1083 Nov 26 j 00:39	0°♏	
	1083 Dec 20 j 16:21	0°♐	
	1084 Jan 14 j 00:34	0°♑	
desc. node	1084 Jan 27 j 01:40	16°♑08'10	
	1084 Feb 07 j 06:26	0°♒	
	1084 Mar 02 j 12:16	0°♓	
	1084 Mar 26 j 19:13	0°♈	
morning set	1084 Apr 04 j 20:19	11°♈09'09	
	1084 Apr 20 j 03:42	0°♉	
superior conj	1084 May 12 j 02:08	26°♉57'51	-0°16'51
minimum elong	1084 May 12 j 05:37	27°♉08'32	0°16'40
max. Earth dist.	1084 May 12 j 11:23	27°♉26'16	1.73556 AU
	1084 May 14 j 13:26	0°♊	
asc. node	1084 May 19 j 05:13	5°♊43'15	
	1084 Jun 07 j 23:41	0°♋	
evening rise	1084 Jun 17 j 08:19	11°♋29'49	
	1084 Jul 02 j 09:53	0°♌	
	1084 Jul 26 j 20:23	0°♍	
	1084 Aug 20 j 08:25	0°♎	
desc. node	1084 Sep 07 j 18:35	22°♎27'33	
	1084 Sep 13 j 23:33	0°♏	
	1084 Oct 08 j 19:48	0°♐	
	1084 Nov 03 j 01:28	0°♑	
	1084 Nov 29 j 04:57	0°♒	
evening max el	1084 Dec 17 j 09:09	19°♒28'43	47°13'04
	1084 Dec 28 j 02:46	0°♓	
asc. node	1084 Dec 29 j 21:50	1°♓39'36	
greatest brilliancy	1085 Jan 26 j 19:19	21°♓03'39	-4.9m
retrograde	1085 Feb 06 j 07:35	23°♓10'08	
evening set	1085 Feb 24 j 06:31	16°♓53'36	
inferior conj	1085 Feb 27 j 08:42	14°♓57'46	8°38'50
minimum elong	1085 Feb 27 j 11:21	14°♓53'36	8°38'44
min. Earth dist.	1085 Feb 26 j 20:23	15°♓17'11	0.28080 AU
morning rise	1085 Mar 02 j 16:24	12°♓54'01	
direct	1085 Mar 20 j 07:20	6°♓55'22	
greatest brilliancy	1085 Mar 29 j 12:31	8°♓30'14	-4.8m
desc. node	1085 Apr 20 j 11:08	21°♓28'00	
	1085 Apr 30 j 12:43	0°♈	
morning max el	1085 May 08 j 09:56	7°♈20'18	45°53'46
	1085 May 30 j 14:51	0°♉	
	1085 Jun 26 j 17:58	0°♊	
	1085 Jul 22 j 15:25	0°♋	
asc. node	1085 Aug 11 j 14:42	23°♋47'33	
	1085 Aug 16 j 18:09	0°♌	
	1085 Sep 10 j 07:17	0°♍	
	1085 Oct 04 j 11:01	0°♎	
	1085 Oct 28 j 09:25	0°♏	
greatest brilliancy	1085 Oct 30 j 07:48	2°♏25'46	-3.9m
morning set	1085 Nov 02 j 11:33	6°♏23'50	
	1085 Nov 21 j 05:38	0°♐	
desc. node	1085 Dec 01 j 04:02	12°♐30'26	
superior conj	1085 Dec 13 j 15:42	28°♐13'18	-0°29'14
minimum elong	1085 Dec 13 j 08:09	27°♐49'33	0°28'53
	1085 Dec 15 j 01:37	0°♑	
max. Earth dist.	1085 Dec 15 j 11:16	0°♑30'23	1.71080 AU
	1086 Jan 07 j 22:32	0°♒	
evening rise	1086 Jan 24 j 03:19	20°♒17'59	
	1086 Jan 31 j 21:37	0°♓	
	1086 Feb 25 j 00:35	0°♈	
	1086 Mar 21 j 09:28	0°♉	
asc. node	1086 Mar 24 j 07:37	3°♉34'26	
	1086 Apr 15 j 02:27	0°♊	
	1086 May 10 j 06:26	0°♋	
	1086 Jun 05 j 03:11	0°♌	
	1086 Jul 02 j 06:59	0°♍	
desc. node	1086 Jul 13 j 20:41	12°♍00'35	
evening max el	1086 Jul 22 j 11:19	20°♍29'43	45°51'26
	1086 Aug 01 j 20:18	0°♎	
greatest brilliancy	1086 Aug 31 j 09:54	19°♎04'58	-4.8m
retrograde	1086 Sep 09 j 12:15	20°♎35'11	
evening set	1086 Sep 26 j 10:44	15°♎10'35	
inferior conj	1086 Sep 30 j 08:22	12°♎50'03	-7°25'27
minimum elong	1086 Sep 30 j 18:09	12°♎35'06	7°23'47
min. Earth dist.	1086 Oct 01 j 05:29	12°♎17'47	0.27346 AU
morning rise	1086 Oct 05 j 01:13	10°♎01'30	
direct	1086 Oct 21 j 06:32	4°♎56'46	
greatest brilliancy	1086 Nov 01 j 07:25	7°♎14'30	-4.9m
asc. node	1086 Nov 04 j 00:02	8°♎25'09	
	1086 Dec 02 j 11:56	0°♏	
morning max el	1086 Dec 11 j 01:29	8°♏28'27	46°56'20
	1086 Dec 31 j 02:12	0°♐	
	1087 Jan 26 j 04:04	0°♑	
	1087 Feb 20 j 09:46	0°♒	
desc. node	1087 Feb 23 j 13:40	3°♒47'39	
	1087 Mar 17 j 07:18	0°♓	

	1087 Apr 11 j 01:18	0°♈	
	1087 May 05 j 17:34	0°♉	
	1087 May 30 j 08:11	0°♊	
morning set	1087 Jun 13 j 01:17	16°♊46'19	
asc. node	1087 Jun 16 j 17:01	21°♊15'01	
	1087 Jun 23 j 20:15	0°♋	
max. Earth dist.	1087 Jul 16 j 05:14	27°♋32'31	1.73199 AU
	1087 Jul 18 j 05:02	0°♌	
superior conj	1087 Jul 19 j 09:04	1°♌26'32	1°07'15
minimum elong	1087 Jul 19 j 00:34	1°♌00'18	1°07'00
	1087 Aug 11 j 10:44	0°♍	
evening rise	1087 Aug 24 j 14:29	16°♍19'42	
	1087 Sep 04 j 14:32	0°♎	
	1087 Sep 28 j 17:51	0°♏	
desc. node	1087 Oct 06 j 06:30	9°♏21'08	
	1087 Oct 22 j 21:47	0°♐	
	1087 Nov 16 j 03:25	0°♑	
	1087 Dec 10 j 13:09	0°♒	
	1088 Jan 04 j 08:39	0°♓	
asc. node	1088 Jan 27 j 09:41	26°♓56'39	
	1088 Jan 30 j 02:12	0°♈	
	1088 Feb 27 j 01:32	0°♉	
evening max el	1088 Feb 27 j 18:59	0°♉43'18	46°07'09
greatest brilliancy	1088 Apr 06 j 07:51	29°♉45'51	-4.8m
	1088 Apr 06 j 23:11	0°♊	
retrograde	1088 Apr 17 j 04:25	1°♊54'53	
	1088 Apr 26 j 23:39	30°℞♉	
evening set	1088 May 02 j 14:48	27°♉18'04	
inferior conj	1088 May 08 j 14:48	23°♉39'36	2°10'45
minimum elong	1088 May 08 j 19:27	23°♉32'17	2°09'25
min. Earth dist.	1088 May 08 j 17:09	23°♉35'55	0.28889 AU
morning rise	1088 May 15 j 00:17	19°♉48'11	
desc. node	1088 May 17 j 22:57	18°♉18'11	
direct	1088 May 30 j 04:37	15°♉22'58	
greatest brilliancy	1088 Jun 09 j 10:17	17°♉15'48	-4.7m
	1088 Jun 30 j 17:54	0°♊	
morning max el	1088 Jul 17 j 22:11	15°♊05'11	45°47'16
	1088 Aug 01 j 19:15	0°♋	
	1088 Aug 29 j 03:16	0°♌	
asc. node	1088 Sep 08 j 02:41	11°♌30'52	
	1088 Sep 23 j 17:50	0°♍	
	1088 Oct 18 j 10:34	0°♎	
	1088 Nov 11 j 15:34	0°♏	
	1088 Dec 05 j 15:11	0°♐	
desc. node	1088 Dec 28 j 15:55	28°♐53'14	
	1088 Dec 29 j 13:13	0°♑	
morning set	1089 Jan 18 j 12:01	25°♑00'34	
	1089 Jan 22 j 11:40	0°♒	
	1089 Feb 15 j 11:46	0°♓	
superior conj	1089 Feb 28 j 03:29	15°♓45'51	-1°24'59
minimum elong	1089 Feb 28 j 06:26	15°♓55'00	1°24'59
max. Earth dist.	1089 Mar 04 j 05:56	20°♓51'52	1.72285 AU
	1089 Mar 11 j 14:29	0°♈	
	1089 Apr 04 j 20:35	0°♉	
evening rise	1089 Apr 08 j 01:47	3°♉57'50	
asc. node	1089 Apr 20 j 19:24	19°♉37'35	
	1089 Apr 29 j 06:28	0°♊	
	1089 May 23 j 20:18	0°♋	
	1089 Jun 17 j 14:48	0°♌	
	1089 Jul 12 j 15:54	0°♍	
	1089 Aug 07 j 03:33	0°♎	
desc. node	1089 Aug 10 j 08:39	3°♎43'53	
	1089 Sep 02 j 09:40	0°♏	
	1089 Sep 30 j 08:20	0°♐	
evening max el	1089 Oct 03 j 18:00	3°♐25'05	47°02'07
	1089 Nov 04 j 12:49	0°♑	
greatest brilliancy	1089 Nov 13 j 08:38	4°♑17'09	-4.9m
retrograde	1089 Nov 23 j 05:35	6°♑08'44	
asc. node	1089 Dec 01 j 11:58	4°♑44'30	
evening set	1089 Dec 07 j 15:46	2°♑00'47	
	1089 Dec 11 j 04:27	30°℞♐	
inferior conj	1089 Dec 13 j 19:21	28°♐24'28	3°08'03
minimum elong	1089 Dec 13 j 12:35	28°♐34'49	3°06'00
min. Earth dist.	1089 Dec 13 j 06:48	28°♐43'40	0.26462 AU
morning rise	1089 Dec 19 j 09:37	25°♐06'29	
direct	1090 Jan 03 j 02:28	20°♐47'43	
greatest brilliancy	1090 Jan 12 j 17:39	22°♐33'03	-4.9m
	1090 Jan 26 j 15:06	0°♑	
morning max el	1090 Feb 22 j 03:35	23°♑00'15	46°36'33
	1090 Mar 01 j 01:21	0°♒	
desc. node	1090 Mar 23 j 01:32	23°♒40'14	
	1090 Mar 28 j 17:28	0°♓	
	1090 Apr 23 j 22:06	0°♈	
	1090 May 19 j 11:16	0°♉	
	1090 Jun 13 j 15:07	0°♊	
	1090 Jul 08 j 11:13	0°♋	
asc. node	1090 Jul 14 j 04:55	6°♋58'59	
	1090 Aug 01 j 23:51	0°♌	
morning set	1090 Aug 20 j 03:33	22°♌25'45	
	1090 Aug 26 j 05:52	0°♍	
	1090 Sep 19 j 07:04	0°♎	
max. Earth dist.	1090 Sep 23 j 19:12	5°♎38'21	1.71749 AU
superior conj	1090 Sep 26 j 13:52	9°♎07'07	1°13'28
minimum elong	1090 Sep 26 j 22:42	9°♎34'46	1°13'14
	1090 Oct 13 j 05:39	0°♏	
desc. node	1090 Nov 02 j 18:19	25°♏45'36	
evening rise	1090 Nov 05 j 10:33	29°♏07'06	
	1090 Nov 06 j 03:24	0°♐	
	1090 Nov 30 j 01:29	0°♑	
	1090 Dec 24 j 01:04	0°♒	
	1091 Jan 17 j 04:13	0°♓	
	1091 Feb 10 j 14:37	0°♈	
asc. node	1091 Feb 23 j 21:41	16°♈04'25	
	1091 Mar 07 j 13:59	0°♉	
	1091 Apr 02 j 11:54	0°♊	
	1091 Apr 30 j 07:10	0°♋	
evening max el	1091 May 09 j 07:34	8°♋55'21	45°21'44
	1091 Jun 03 j 16:21	0°♌	
desc. node	1091 Jun 15 j 10:58	6°♌14'59	
greatest brilliancy	1091 Jun 16 j 07:12	6°♌33'54	-4.7m
retrograde	1091 Jun 26 j 21:28	8°♌34'36	
evening set	1091 Jul 13 j 02:15	3°♌35'29	
inferior conj	1091 Jul 18 j 07:31	0°♌27'05	-6°44'45
minimum elong	1091 Jul 17 j 21:42	0°♌42'18	6°42'58
min. Earth dist.	1091 Jul 18 j 10:17	0°♌22'47	0.28849 AU
	1091 Jul 19 j 00:59	30°℞♋	
morning rise	1091 Jul 22 j 16:56	27°♋46'36	
direct	1091 Aug 08 j 21:49	22°♋11'16	
greatest brilliancy	1091 Aug 19 j 16:28	24°♋17'39	-4.8m
	1091 Aug 30 j 18:05	0°♌	
morning max el	1091 Sep 27 j 17:08	23°♌37'51	46°22'54
	1091 Oct 03 j 23:52	0°♍	
asc. node	1091 Oct 06 j 14:19	2°♍42'53	
	1091 Oct 31 j 05:21	0°♎	
	1091 Nov 25 j 14:08	0°♏	
	1091 Dec 20 j 04:55	0°♐	
	1092 Jan 13 j 12:35	0°♑	
desc. node	1092 Jan 26 j 03:50	15°♑38'20	
	1092 Feb 06 j 18:05	0°♒	
	1092 Mar 01 j 23:38	0°♓	
	1092 Mar 26 j 06:20	0°♈	

morning set	1092 Apr 02 j 12:01	8°♈55'30	
	1092 Apr 19 j 14:38	0°♉	
superior conj	1092 May 09 j 19:29	24°♉50'18	-0°20'00
minimum elong	1092 May 09 j 23:36	25°♉02'58	0°19'48
max. Earth dist.	1092 May 10 j 10:05	25°♉35'10	1.73537 AU
	1092 May 14 j 00:17	0°♊	
asc. node	1092 May 18 j 07:14	5°♊16'09	
	1092 Jun 07 j 10:33	0°♋	
evening rise	1092 Jun 15 j 03:15	9°♋27'09	
	1092 Jul 01 j 20:53	0°♌	
	1092 Jul 26 j 07:39	0°♍	
	1092 Aug 19 j 20:05	0°♎	
desc. node	1092 Sep 06 j 20:36	21°♎56'51	
	1092 Sep 13 j 11:50	0°♏	
	1092 Oct 08 j 08:59	0°♐	
	1092 Nov 02 j 16:08	0°♑	
	1092 Nov 28 j 22:41	0°♒	
evening max el	1092 Dec 15 j 01:00	17°♒10'24	47°14'18
	1092 Dec 28 j 06:45	0°♓	
asc. node	1092 Dec 28 j 23:55	0°♓38'46	
greatest brilliancy	1093 Jan 24 j 10:14	18°♓44'14	-4.9m
retrograde	1093 Feb 03 j 23:19	20°♓51'05	
evening set	1093 Feb 21 j 21:53	14°♓34'18	
inferior conj	1093 Feb 24 j 23:33	12°♓39'11	8°41'39
minimum elong	1093 Feb 25 j 01:23	12°♓36'17	8°41'37
min. Earth dist.	1093 Feb 24 j 09:52	13°♓00'44	0.28030 AU
morning rise	1093 Feb 28 j 05:08	10°♓38'43	
direct	1093 Mar 17 j 22:14	4°♓37'55	
greatest brilliancy	1093 Mar 27 j 01:11	6°♓11'19	-4.8m
desc. node	1093 Apr 19 j 13:07	20°♓22'34	
	1093 Apr 30 j 14:54	0°♈	
morning max el	1093 May 06 j 01:13	5°♈06'46	45°54'42
	1093 May 30 j 07:39	0°♉	
	1093 Jun 26 j 07:46	0°♊	
	1093 Jul 22 j 03:49	0°♋	
asc. node	1093 Aug 10 j 16:47	23°♋18'23	
	1093 Aug 16 j 05:49	0°♌	
	1093 Sep 09 j 18:33	0°♍	
	1093 Oct 03 j 22:07	0°♎	
	1093 Oct 27 j 20:27	0°♏	
greatest brilliancy	1093 Oct 29 j 12:26	2°♏05'39	-3.9m
morning set	1093 Oct 30 j 23:51	3°♏56'58	
	1093 Nov 20 j 16:39	0°♐	
desc. node	1093 Nov 30 j 06:10	12°♐02'31	
superior conj	1093 Dec 11 j 01:31	25°♐38'36	-0°25'26
minimum elong	1093 Dec 10 j 18:52	25°♐17'41	0°25'08
max. Earth dist.	1093 Dec 12 j 17:58	27°♐45'50	1.71063 AU
	1093 Dec 14 j 12:37	0°♑	
	1094 Jan 07 j 09:31	0°♒	
evening rise	1094 Jan 21 j 14:08	17°♒47'16	
	1094 Jan 31 j 08:37	0°♓	
	1094 Feb 24 j 11:41	0°♈	
	1094 Mar 20 j 20:47	0°♉	
asc. node	1094 Mar 23 j 09:33	3°♉05'39	
	1094 Apr 14 j 14:10	0°♊	
	1094 May 09 j 18:57	0°♋	
	1094 Jun 04 j 17:16	0°♌	
	1094 Jul 02 j 00:38	0°♍	
desc. node	1094 Jul 12 j 22:51	11°♍14'35	
evening max el	1094 Jul 20 j 00:36	18°♍10'45	45°49'14
	1094 Aug 02 j 02:41	0°♎	
greatest brilliancy	1094 Aug 28 j 23:02	16°♎44'20	-4.8m
retrograde	1094 Sep 07 j 00:29	18°♎13'49	
evening set	1094 Sep 24 j 02:58	12°♎44'45	
inferior conj	1094 Sep 27 j 21:46	10°♎28'12	-7°37'03
minimum elong	1094 Sep 28 j 07:09	10°♎13'50	7°35'34
min. Earth dist.	1094 Sep 28 j 19:14	9°♎55'19	0.27412 AU
morning rise	1094 Oct 02 j 10:56	7°♎44'26	
direct	1094 Oct 18 j 20:11	2°♎33'48	
greatest brilliancy	1094 Oct 29 j 22:07	4°♎51'46	-4.9m
asc. node	1094 Nov 03 j 02:08	6°♎46'13	
	1094 Dec 02 j 13:44	0°♏	
morning max el	1094 Dec 08 j 14:18	6°♏01'15	46°56'05
	1094 Dec 30 j 19:25	0°♐	
	1095 Jan 25 j 18:22	0°♑	
	1095 Feb 19 j 22:37	0°♒	
desc. node	1095 Feb 22 j 15:42	3°♒15'32	
	1095 Mar 16 j 19:16	0°♓	
	1095 Apr 10 j 12:43	0°♈	
	1095 May 05 j 04:37	0°♉	
	1095 May 29 j 18:59	0°♊	
morning set	1095 Jun 10 j 19:29	14°♊42'18	
asc. node	1095 Jun 15 j 19:10	20°♊48'49	
	1095 Jun 23 j 06:54	0°♋	
max. Earth dist.	1095 Jul 13 j 23:48	25°♋28'56	1.73238 AU
superior conj	1095 Jul 17 j 03:20	29°♋21'57	1°05'17
minimum elong	1095 Jul 16 j 18:43	28°♋55'21	1°05'01
	1095 Jul 17 j 15:39	0°♌	
	1095 Aug 10 j 21:27	0°♍	
evening rise	1095 Aug 22 j 07:06	14°♍08'49	
	1095 Sep 04 j 01:25	0°♎	
	1095 Sep 28 j 05:00	0°♏	
desc. node	1095 Oct 05 j 08:27	8°♏52'16	
	1095 Oct 22 j 09:16	0°♐	
	1095 Nov 15 j 15:18	0°♑	
	1095 Dec 10 j 01:37	0°♒	
	1096 Jan 03 j 22:06	0°♓	
asc. node	1096 Jan 26 j 11:48	26°♓19'25	
	1096 Jan 29 j 17:43	0°♈	
evening max el	1096 Feb 25 j 08:58	28°♈26'00	46°09'38
	1096 Feb 26 j 23:08	0°♉	
greatest brilliancy	1096 Apr 04 j 01:11	27°♉37'53	-4.8m
retrograde	1096 Apr 14 j 20:44	29°♉46'37	
evening set	1096 Apr 30 j 09:04	25°♉07'01	
inferior conj	1096 May 06 j 07:21	21°♉31'11	2°29'44
minimum elong	1096 May 06 j 12:37	21°♉22'52	2°28'15
min. Earth dist.	1096 May 06 j 10:05	21°♉26'52	0.28880 AU
morning rise	1096 May 12 j 16:17	17°♉40'18	
desc. node	1096 May 17 j 01:03	15°♉32'11	
direct	1096 May 27 j 20:13	13°♉14'30	
greatest brilliancy	1096 Jun 07 j 02:41	15°♉07'39	-4.7m
	1096 Jul 01 j 02:10	0°♊	
morning max el	1096 Jul 15 j 13:40	12°♊54'34	45°46'43
	1096 Aug 01 j 12:49	0°♋	
	1096 Aug 28 j 17:16	0°♌	
asc. node	1096 Sep 07 j 04:37	10°♌57'38	
	1096 Sep 23 j 06:22	0°♍	
	1096 Oct 17 j 22:23	0°♎	
	1096 Nov 11 j 03:00	0°♏	
	1096 Dec 05 j 02:24	0°♐	
desc. node	1096 Dec 27 j 18:00	28°♐25'02	
	1096 Dec 29 j 00:16	0°♑	
morning set	1097 Jan 15 j 21:52	22°♑26'42	
	1097 Jan 21 j 22:37	0°♒	
	1097 Feb 14 j 22:36	0°♓	
superior conj	1097 Feb 25 j 16:31	13°♓23'36	-1°25'26
minimum elong	1097 Feb 25 j 18:34	13°♓29'59	1°25'25
max. Earth dist.	1097 Mar 01 j 17:25	18°♓24'57	1.72225 AU
	1097 Mar 11 j 01:13	0°♈	
	1097 Apr 04 j 07:17	0°♉	

evening rise	1097 Apr 05 j 17:17	1°♉44'47	
asc. node	1097 Apr 19 j 21:29	19°♉11'02	
	1097 Apr 28 j 17:13	0°♊	
	1097 May 23 j 07:19	0°♋	
	1097 Jun 17 j 02:17	0°♌	
	1097 Jul 12 j 04:11	0°♍	
	1097 Aug 06 j 17:09	0°♎	
desc. node	1097 Aug 09 j 10:38	3°♎09'35	
	1097 Sep 02 j 01:48	0°♏	
	1097 Sep 30 j 06:47	0°♐	
evening max el	1097 Oct 01 j 06:58	1°♐00'12	47°00'14
	1097 Nov 06 j 15:15	0°♑	
greatest brilliancy	1097 Nov 10 j 21:41	1°♑48'26	-4.9m
retrograde	1097 Nov 20 j 18:14	3°♑39'43	
asc. node	1097 Nov 30 j 14:05	1°♑40'42	
	1097 Dec 04 j 06:21	30°℞♐	
evening set	1097 Dec 05 j 02:59	29°♐33'02	
inferior conj	1097 Dec 11 j 07:33	25°♐55'56	2°44'55
minimum elong	1097 Dec 11 j 01:31	26°♐05'08	2°43'03
min. Earth dist.	1097 Dec 10 j 20:12	26°♐13'14	0.26441 AU
morning rise	1097 Dec 17 j 00:15	22°♐35'09	
direct	1097 Dec 31 j 14:39	18°♐19'11	
greatest brilliancy	1098 Jan 10 j 07:20	20°♐06'18	-4.9m
	1098 Jan 27 j 13:06	0°♑	
morning max el	1098 Feb 19 j 17:43	20°♑38'52	46°38'03
	1098 Feb 28 j 21:43	0°♒	
desc. node	1098 Mar 22 j 03:28	23°♒00'57	
	1098 Mar 28 j 08:48	0°♓	
	1098 Apr 23 j 11:17	0°♈	
	1098 May 18 j 23:17	0°♉	
	1098 Jun 13 j 02:26	0°♊	
	1098 Jul 07 j 22:09	0°♋	
asc. node	1098 Jul 13 j 06:58	6°♋32'06	
	1098 Aug 01 j 10:37	0°♌	
morning set	1098 Aug 17 j 20:09	20°♌15'15	
	1098 Aug 25 j 16:35	0°♍	
	1098 Sep 18 j 17:49	0°♎	
max. Earth dist.	1098 Sep 21 j 08:28	3°♎15'59	1.71797 AU
superior conj	1098 Sep 24 j 04:17	6°♎48'11	1°15'10
minimum elong	1098 Sep 24 j 12:37	7°♎14'15	1°14'58
	1098 Oct 12 j 16:29	0°♏	
desc. node	1098 Nov 01 j 20:27	25°♏18'00	
evening rise	1098 Nov 02 j 21:37	26°♏36'55	
	1098 Nov 05 j 14:22	0°♐	
	1098 Nov 29 j 12:35	0°♑	
	1098 Dec 23 j 12:20	0°♒	
	1099 Jan 16 j 15:44	0°♓	
	1099 Feb 10 j 02:35	0°♈	
asc. node	1099 Feb 22 j 23:38	15°♈33'12	
	1099 Mar 07 j 02:48	0°♉	
	1099 Apr 02 j 02:31	0°♊	
	1099 Apr 30 j 02:33	0°♋	
evening max el	1099 May 07 j 00:15	6°♋47'25	45°22'16
	1099 Jun 04 j 19:06	0°♌	
greatest brilliancy	1099 Jun 13 j 21:30	4°♌23'15	-4.7m
desc. node	1099 Jun 14 j 13:04	4°♌37'01	
retrograde	1099 Jun 24 j 13:34	6°♌25'04	
evening set	1099 Jul 10 j 15:13	1°♌30'00	
	1099 Jul 13 j 04:31	30°℞♋	
inferior conj	1099 Jul 15 j 23:24	28°♋17'01	-6°31'46
minimum elong	1099 Jul 15 j 13:29	28°♋32'25	6°29'51
min. Earth dist.	1099 Jul 16 j 01:17	28°♋14'06	0.28869 AU
morning rise	1099 Jul 20 j 11:36	25°♋32'25	
direct	1099 Aug 06 j 14:33	20°♋01'07	
greatest brilliancy	1099 Aug 17 j 07:14	22°♋05'50	-4.8m
	1099 Aug 31 j 16:06	0°♌	
morning max el	1099 Sep 25 j 08:49	21°♌23'56	46°21'13
	1099 Oct 03 j 19:18	0°♍	
asc. node	1099 Oct 05 j 16:26	1°♍58'44	
	1099 Oct 30 j 20:19	0°♎	
	1099 Nov 25 j 03:22	0°♏	
	1099 Dec 19 j 17:15	0°♐	
	1100 Jan 13 j 00:23	0°♑	
desc. node	1100 Jan 25 j 05:52	15°♑08'52	
	1100 Feb 06 j 05:29	0°♒	
	1100 Mar 01 j 10:44	0°♓	
	1100 Mar 25 j 17:12	0°♈	
morning set	1100 Mar 31 j 03:37	6°♈42'12	
	1100 Apr 19 j 01:22	0°♉	
superior conj	1100 May 07 j 12:50	22°♉43'22	-0°23'08
minimum elong	1100 May 07 j 17:34	22°♉57'56	0°22'55
max. Earth dist.	1100 May 08 j 08:43	23°♉44'28	1.73514 AU
	1100 May 13 j 10:57	0°♊	
asc. node	1100 May 17 j 09:24	4°♊50'10	
	1100 Jun 06 j 21:13	0°♋	
evening rise	1100 Jun 12 j 22:14	7°♋25'14	
	1100 Jul 01 j 07:41	0°♌	
	1100 Jul 25 j 18:43	0°♍	
	1100 Aug 19 j 07:37	0°♎	
desc. node	1100 Sep 05 j 22:37	21°♎26'32	
	1100 Sep 13 j 00:02	0°♏	
	1100 Oct 07 j 22:11	0°♐	
	1100 Nov 02 j 06:55	0°♑	
	1100 Nov 28 j 16:48	0°♒	
evening max el	1100 Dec 12 j 16:33	14°♒51'09	47°15'30
asc. node	1100 Dec 28 j 01:59	29°♒36'30	
	1100 Dec 28 j 12:40	0°♓	
greatest brilliancy	1101 Jan 22 j 01:47	16°♓25'25	-4.9m
retrograde	1101 Feb 01 j 14:37	18°♓31'39	
evening set	1101 Feb 19 j 12:51	12°♓15'31	
min. Earth dist.	1101 Feb 21 j 23:34	10°♓43'48	0.27974 AU
inferior conj	1101 Feb 22 j 14:19	10°♓20'31	8°43'46
minimum elong	1101 Feb 22 j 15:20	10°♓18'56	8°43'45
morning rise	1101 Feb 25 j 18:04	8°♓22'46	
direct	1101 Mar 15 j 12:44	2°♓20'32	
greatest brilliancy	1101 Mar 24 j 14:01	3°♓52'32	-4.8m
desc. node	1101 Apr 18 j 15:19	19°♓19'34	
	1101 Apr 30 j 15:37	0°♈	
morning max el	1101 May 03 j 15:30	2°♈51'02	45°55'39
	1101 May 30 j 00:01	0°♉	
	1101 Jun 25 j 21:21	0°♊	
	1101 Jul 21 j 16:04	0°♋	
asc. node	1101 Aug 09 j 18:46	22°♋49'14	
	1101 Aug 15 j 17:22	0°♌	
	1101 Sep 09 j 05:44	0°♍	
	1101 Oct 03 j 09:09	0°♎	
	1101 Oct 27 j 07:28	0°♏	
greatest brilliancy	1101 Oct 28 j 09:08	1°♏20'41	-3.9m
morning set	1101 Oct 28 j 12:14	1°♏30'26	
	1101 Nov 20 j 03:41	0°♐	
desc. node	1101 Nov 29 j 08:17	11°♐34'29	
superior conj	1101 Dec 08 j 11:06	23°♐03'02	-0°21'34
minimum elong	1101 Dec 08 j 05:25	22°♐45'09	0°21'17
max. Earth dist.	1101 Dec 09 j 20:51	24°♐49'15	1.71053 AU
	1101 Dec 13 j 23:39	0°♑	
	1102 Jan 06 j 20:34	0°♒	