

superior conj	1800 Aug 05 08:52	12°♁36'09	1°11'23	direct	1803 Jan 20 22:46	1°♁41'36	
minimum elong	1800 Aug 05 00:49	12°♁11'17	1°11'11	greatest brilliancy	1803 Feb 01 07:55	4°♁06'24	-4.7m
	1800 Aug 19 10:32	0°♎			1803 Mar 08 00:15	0°♎	
evening rise	1800 Sep 10 16:01	27°♎33'38		morning max el	1803 Mar 12 01:02	3°♎56'47	46°38'01
	1800 Sep 12 15:10	0°♎			1803 Apr 05 18:14	0°♎	
	1800 Oct 06 18:52	0°♎		desc. node	1803 Apr 07 02:04	1°♎27'42	
desc. node	1800 Oct 20 07:05	16°♎46'36			1803 May 02 07:25	0°♎	
	1800 Oct 30 22:46	0°♎			1803 May 28 00:35	0°♎	
	1800 Nov 24 03:45	0°♎			1803 Jun 22 07:14	0°♎	
	1800 Dec 18 11:35	0°♎			1803 Jul 17 06:03	0°♎	
	1801 Jan 12 02:31	0°♎		asc. node	1803 Jul 29 05:35	14°♎32'28	
	1801 Feb 06 09:47	0°♎			1803 Aug 10 21:25	0°♎	
asc. node	1801 Feb 10 10:24	4°♎38'50			1803 Sep 04 05:50	0°♎	
	1801 Mar 05 06:40	0°♎		morning set	1803 Sep 07 03:58	3°♎37'14	
evening max el	1801 Mar 16 18:29	11°♎48'30	46°09'23		1803 Sep 28 08:49	0°♎	
	1801 Apr 06 02:52	0°♎		max. Earth dist.	1803 Oct 11 20:02	16°♎49'37	1.71808 AU
greatest brilliancy	1801 Apr 20 13:37	9°♎16'33	-4.5m				
retrograde	1801 May 05 05:15	13°♎04'29		superior conj	1803 Oct 14 14:22	20°♎17'10	1°09'44
evening set	1801 May 20 12:31	8°♎32'07		minimum elong	1803 Oct 14 23:56	20°♎47'05	1°09'28
inferior conj	1801 May 26 15:39	4°♎49'34	1°29'33		1803 Oct 22 08:32	0°♎	
minimum elong	1801 May 26 18:54	4°♎44'27	1°28'36		1803 Nov 15 06:49	0°♎	
min. Earth dist.	1801 May 26 16:04	4°♎48'56	0.28835 AU	desc. node	1803 Nov 17 18:58	3°♎08'40	
morning rise	1801 Jun 02 01:29	0°♎57'53		evening rise	1803 Nov 23 10:39	10°♎14'14	
desc. node	1801 Jun 01 23:37	1°♎00'27			1803 Dec 09 04:51	0°♎	
	1801 Jun 03 21:40	30°♎			1804 Jan 02 03:38	0°♎	
direct	1801 Jun 17 04:27	26°♎34'16			1804 Jan 26 04:55	0°♎	
greatest brilliancy	1801 Jun 30 06:46	29°♎34'10	-4.5m		1804 Feb 19 11:58	0°♎	
	1801 Jul 01 06:00	0°♎		asc. node	1804 Mar 09 22:17	23°♎37'26	
morning max el	1801 Aug 04 21:36	26°♎14'40	45°46'21		1804 Mar 15 05:38	0°♎	
	1801 Aug 08 18:38	0°♎			1804 Apr 09 17:25	0°♎	
	1801 Sep 06 05:22	0°♎			1804 May 06 14:50	0°♎	
asc. node	1801 Sep 23 03:16	19°♎13'44		evening max el	1804 May 26 07:18	20°♎05'40	45°24'02
	1801 Oct 02 08:17	0°♎			1804 Jun 06 03:15	0°♎	
	1801 Oct 27 08:00	0°♎		desc. node	1804 Jun 29 11:38	16°♎11'45	
	1801 Nov 20 16:52	0°♎		greatest brilliancy	1804 Jun 30 08:45	16°♎35'45	-4.5m
	1801 Dec 14 18:21	0°♎		retrograde	1804 Jul 13 21:55	19°♎47'54	
	1802 Jan 07 16:55	0°♎		evening set	1804 Jul 30 09:38	14°♎38'25	
desc. node	1802 Jan 12 16:36	6°♎15'19		inferior conj	1804 Aug 04 08:13	11°♎39'06	-7°-9'-53
	1802 Jan 31 15:03	0°♎		minimum elong	1804 Aug 03 22:53	11°♎53'36	7°08'23
morning set	1802 Feb 05 09:59	6°♎00'09		min. Earth dist.	1804 Aug 04 10:38	11°♎35'21	0.28905 AU
	1802 Feb 24 14:11	0°♎		morning rise	1804 Aug 08 11:58	9°♎06'42	
				direct	1804 Aug 25 22:43	3°♎22'37	
superior conj	1802 Mar 17 23:11	26°♎40'04	-1°-24'-3	greatest brilliancy	1804 Sep 09 09:01	7°♎02'10	-4.5m
minimum elong	1802 Mar 18 03:46	26°♎54'20	1°24'01		1804 Oct 09 18:42	0°♎	
	1802 Mar 20 15:28	0°♎		morning max el	1804 Oct 14 17:55	4°♎49'42	46°21'36
max. Earth dist.	1802 Mar 22 01:25	1°♎45'34	1.72233 AU	asc. node	1804 Oct 20 14:57	10°♎46'41	
	1802 Apr 13 19:55	0°♎			1804 Nov 07 10:01	0°♎	
evening rise	1802 Apr 25 22:32	14°♎56'45			1804 Dec 03 07:13	0°♎	
asc. node	1802 May 05 20:02	27°♎07'35			1804 Dec 28 03:27	0°♎	
	1802 May 08 04:09	0°♎			1805 Jan 21 13:16	0°♎	
	1802 Jun 01 16:21	0°♎		desc. node	1805 Feb 09 04:28	23°♎02'59	
	1802 Jun 26 08:53	0°♎			1805 Feb 14 19:08	0°♎	
	1802 Jul 21 07:12	0°♎			1805 Mar 11 00:09	0°♎	
	1802 Aug 15 14:30	0°♎			1805 Apr 04 05:57	0°♎	
desc. node	1802 Aug 25 09:18	11°♎25'34		morning set	1805 Apr 20 08:18	19°♎52'33	
	1802 Sep 10 12:44	0°♎			1805 Apr 28 13:21	0°♎	
	1802 Oct 07 16:12	0°♎			1805 May 22 22:21	0°♎	
evening max el	1802 Oct 21 14:15	14°♎21'25	46°59'18				
	1802 Nov 07 10:54	0°♎		superior conj	1805 May 27 17:13	5°♎53'05	0°-13'-18
greatest brilliancy	1802 Nov 29 11:02	14°♎31'40	-4.7m	minimum elong	1805 May 27 20:01	6°♎01'41	0°13'11
retrograde	1802 Dec 11 01:25	17°♎03'26		behind sun begin	1805 May 27 07:09	5°♎22'09	
asc. node	1802 Dec 16 12:39	16°♎26'25		behind sun end	1805 May 28 08:53	6°♎41'14	
evening set	1802 Dec 25 13:42	12°♎52'29		max. Earth dist.	1805 May 28 11:13	6°♎48'25	1.73499 AU
min. Earth dist.	1802 Dec 31 02:23	9°♎38'43	0.26499 AU	asc. node	1805 Jun 02 07:58	12°♎47'11	
inferior conj	1802 Dec 31 15:12	9°♎19'07	3°48'39		1805 Jun 16 08:15	0°♎	
minimum elong	1802 Dec 31 07:12	9°♎31'22	3°46'17	evening rise	1805 Jul 03 01:31	20°♎32'15	
morning rise	1803 Jan 06 00:54	6°♎07'27			1805 Jul 10 18:27	0°♎	

	1805 Aug 04 05:01	0°♍							1808 Feb 28 16:44	0°♁			
	1805 Aug 28 16:59	0°♁							1808 Mar 08 16:15	10°♁45'52			
desc. node	1805 Sep 21 21:11	29°♁27'57							1808 Mar 24 15:07	0°♃			
	1805 Sep 22 07:44	0°♌							1808 Apr 18 08:58	0°♃			
	1805 Oct 17 02:54	0°♃							1808 May 13 00:54	0°♃			
	1805 Nov 11 05:39	0°♃							1808 Jun 06 15:35	0°♁			
	1805 Dec 07 00:59	0°♁							1808 Jun 27 18:10	25°♁48'17			
evening max el	1806 Jan 01 23:47	28°♁11'45	47°13'23						1808 Jun 29 19:49	28°♁20'20			
	1806 Jan 03 18:27	0°♃							1808 Jul 01 04:21	0°♁			
asc. node	1806 Jan 13 00:36	8°♃59'03							1808 Jul 25 14:18	0°♁			
greatest brilliancy	1806 Feb 08 07:28	28°♃23'53	-4.6m						1808 Jul 31 03:14	6°♁49'45	1.73247 AU		
	1806 Feb 12 04:26	0°♃											
retrograde	1806 Feb 21 21:02	1°♃47'36							1808 Aug 03 03:05	10°♁31'24	1°09'38		
	1806 Mar 03 03:44	30°♃							1808 Aug 02 18:48	10°♁05'49	1°09'24		
evening set	1806 Mar 11 19:37	25°♃31'25							1808 Aug 18 21:14	0°♍			
min. Earth dist.	1806 Mar 14 08:53	23°♃55'56	0.27975 AU						1808 Sep 08 08:28	25°♍22'18			
inferior conj	1806 Mar 14 20:47	23°♃37'14	8°39'22						1808 Sep 12 02:00	0°♁			
minimum elong	1806 Mar 15 00:12	23°♃31'51	8°39'12						1808 Oct 06 05:55	0°♌			
morning rise	1806 Mar 18 05:01	21°♃32'56							1808 Oct 19 09:07	16°♌18'06			
direct	1806 Apr 04 19:17	15°♃37'04							1808 Oct 30 10:07	0°♃			
greatest brilliancy	1806 Apr 15 20:49	17°♃52'02	-4.5m						1808 Nov 23 15:30	0°♃			
desc. node	1806 May 04 13:48	29°♃07'27							1808 Dec 17 23:52	0°♁			
	1806 May 05 16:47	0°♃							1809 Jan 11 15:36	0°♃			
morning max el	1806 May 23 23:09	16°♃09'42	45°55'14						1809 Feb 06 00:26	0°♃			
	1806 Jun 06 18:32	0°♃							1809 Feb 09 12:22	4°♃01'27			
	1806 Jul 04 10:44	0°♁							1809 Mar 05 01:11	0°♃			
	1806 Jul 30 15:15	0°♁							1809 Mar 14 08:34	9°♃31'00	46°11'52		
	1806 Aug 24 23:13	0°♁							1809 Apr 06 16:42	0°♁			
asc. node	1806 Aug 25 17:25	0°♁54'35							1809 Apr 18 05:43	7°♁06'22	-4.5m		
	1806 Sep 18 16:32	0°♍							1809 May 02 21:32	10°♁55'34			
	1806 Oct 12 23:24	0°♁							1809 May 18 06:25	6°♁20'45			
	1806 Nov 05 23:45	0°♌							1809 May 24 08:05	2°♁40'33	1°49'05		
morning set	1806 Nov 17 22:33	15°♌00'08							1809 May 24 12:01	2°♁34'22	1°47'57		
	1806 Nov 29 20:52	0°♃							1809 May 24 08:55	2°♁39'14	0.28821 AU		
desc. node	1806 Dec 15 06:50	19°♃24'08							1809 May 28 16:06	30°♃			
	1806 Dec 23 16:55	0°♃							1809 May 30 17:45	28°♃49'00			
									1809 Jun 01 01:41	28°♃06'30			
superior conj	1806 Dec 28 23:52	6°♃39'24	0°-32'-3						1809 Jun 14 20:00	24°♃25'14			
minimum elong	1806 Dec 28 15:44	6°♃13'48	0°31'41						1809 Jun 27 22:37	27°♃25'06	-4.5m		
max. Earth dist.	1806 Dec 30 07:10	8°♃17'53	1.71070 AU						1809 Jul 03 03:28	0°♁			
	1807 Jan 16 13:16	0°♁							1809 Aug 02 13:08	24°♁04'00	45°45'48		
evening rise	1807 Feb 08 09:34	28°♁39'46							1809 Aug 08 15:07	0°♁			
	1807 Feb 09 11:12	0°♃							1809 Sep 05 20:26	0°♁			
	1807 Mar 05 12:22	0°♃							1809 Sep 22 05:15	18°♁40'01			
	1807 Mar 29 18:45	0°♃							1809 Oct 01 21:23	0°♍			
asc. node	1807 Apr 07 10:13	10°♃36'08							1809 Oct 26 20:10	0°♁			
	1807 Apr 23 08:32	0°♁							1809 Nov 20 04:33	0°♌			
	1807 May 18 08:20	0°♁							1809 Dec 14 05:45	0°♃			
	1807 Jun 12 22:49	0°♁							1810 Jan 07 04:09	0°♃			
	1807 Jul 09 14:50	0°♍							1810 Jan 11 18:36	5°♃46'27			
desc. node	1807 Jul 27 23:28	19°♍24'24							1810 Jan 31 02:10	0°♁			
evening max el	1807 Aug 06 23:14	29°♍17'01	45°48'50						1810 Feb 02 19:49	3°♁25'49			
	1807 Aug 07 17:14	0°♁							1810 Feb 24 01:11	0°♃			
greatest brilliancy	1807 Sep 14 06:42	27°♁15'53	-4.6m										
retrograde	1807 Sep 24 22:00	29°♁17'57							1810 Mar 15 12:06	24°♃16'51	-1°24'46		
evening set	1807 Oct 11 18:49	23°♁57'17							1810 Mar 15 15:50	24°♃28'27	1°24'45		
inferior conj	1807 Oct 15 19:43	21°♁31'50	-7°-12'-45						1810 Mar 19 11:55	29°♃15'00	1.72176 AU		
minimum elong	1807 Oct 16 05:42	21°♁16'31	7°10'59						1810 Mar 20 02:23	0°♃			
min. Earth dist.	1807 Oct 16 18:04	20°♁57'32	0.27433 AU						1810 Apr 13 06:48	0°♃			
morning rise	1807 Oct 20 16:06	18°♁37'28							1810 Apr 23 13:54	12°♃42'39			
direct	1807 Nov 05 18:22	13°♁36'24							1810 May 04 22:12	26°♃40'42			
asc. node	1807 Nov 18 02:51	16°♁25'57							1810 May 07 15:04	0°♁			
greatest brilliancy	1807 Nov 19 15:41	17°♁08'00	-4.6m						1810 Jun 01 03:25	0°♁			
	1807 Dec 08 10:50	0°♌							1810 Jun 25 20:18	0°♁			
morning max el	1807 Dec 26 11:46	17°♌00'08	46°56'09						1810 Jul 20 19:16	0°♍			
	1808 Jan 07 19:11	0°♃							1810 Aug 15 03:40	0°♁			
	1808 Feb 03 07:36	0°♃							1810 Aug 24 11:12	10°♁51'04			

	1810 Sep 10 03:55	0°♌			1813 Apr 03 17:10	0°♍
	1810 Oct 07 11:45	0°♌		morning set	1813 Apr 17 23:54	17°♍38'26
evening max el	1810 Oct 19 03:38	11°♌56'59	46°57'24		1813 Apr 28 00:23	0°♎
	1810 Nov 07 23:16	0°♍			1813 May 22 09:17	0°♎
greatest brilliancy	1810 Nov 26 23:58	12°♍02'17	-4.7m			
retrograde	1810 Dec 08 14:08	14°♍33'44		superior conj	1813 May 25 10:27	3°♎44'57 0°-16'-31
asc. node	1810 Dec 15 14:44	13°♍32'26		minimum elong	1813 May 25 13:55	3°♎55'36 0°16'22
evening set	1810 Dec 23 00:26	10°♍24'43		max. Earth dist.	1813 May 26 10:00	4°♎57'20 1.73477 AU
min. Earth dist.	1810 Dec 28 15:34	7°♍07'52	0.26476 AU	asc. node	1813 Jun 01 10:00	12°♎19'52
inferior conj	1810 Dec 29 03:22	6°♍49'52	3°26'10		1813 Jun 15 19:10	0°♏
minimum elong	1810 Dec 28 20:01	7°♍01'05	3°23'57	evening rise	1813 Jun 30 20:23	18°♏29'06
morning rise	1811 Jan 03 15:47	3°♍35'00			1813 Jul 10 05:28	0°♐
	1811 Jan 12 06:57	30°♌			1813 Aug 03 16:15	0°♑
direct	1811 Jan 18 11:12	29°♌12'27			1813 Aug 28 04:35	0°♑
	1811 Jan 24 19:54	0°♍		desc. node	1813 Sep 20 23:18	28°♑57'30
greatest brilliancy	1811 Jan 29 22:05	1°♍39'48	-4.7m		1813 Sep 21 19:54	0°♒
	1811 Mar 08 00:49	0°♎			1813 Oct 16 15:54	0°♒
morning max el	1811 Mar 09 15:08	1°♎34'40	46°39'26		1813 Nov 10 19:58	0°♓
	1811 Apr 05 11:04	0°♏			1813 Dec 06 17:49	0°♓
desc. node	1811 Apr 06 04:11	0°♏47'23		evening max el	1813 Dec 30 14:53	25°♓50'21 47°14'20
	1811 May 01 21:28	0°♐			1814 Jan 03 18:07	0°♔
	1811 May 27 13:13	0°♑		asc. node	1814 Jan 12 02:34	7°♔58'11
	1811 Jun 21 19:03	0°♒		greatest brilliancy	1814 Feb 06 01:06	26°♔06'15 -4.6m
	1811 Jul 16 17:22	0°♓		retrograde	1814 Feb 19 11:54	29°♔26'36
asc. node	1811 Jul 28 07:35	14°♓04'41		evening set	1814 Mar 09 11:09	23°♔09'56
	1811 Aug 10 08:26	0°♐		min. Earth dist.	1814 Mar 11 22:36	21°♔37'10 0.27921 AU
	1811 Sep 03 16:45	0°♑		inferior conj	1814 Mar 12 11:21	21°♔17'05 8°43'09
morning set	1811 Sep 04 20:37	1°♑26'19		minimum elong	1814 Mar 12 13:59	21°♔12'57 8°43'03
	1811 Sep 27 19:46	0°♒		morning rise	1814 Mar 15 17:01	19°♔16'33
max. Earth dist.	1811 Oct 09 09:29	14°♒27'12	1.71858 AU	direct	1814 Apr 02 09:28	13°♔18'07
				greatest brilliancy	1814 Apr 13 08:35	15°♔30'42 -4.5m
superior conj	1811 Oct 12 04:47	17°♒57'38	1°11'42	desc. node	1814 May 03 15:56	27°♔59'56
minimum elong	1811 Oct 12 13:58	18°♒26'22	1°11'28		1814 May 06 03:22	0°♕
	1811 Oct 21 19:35	0°♓		morning max el	1814 May 21 13:00	13°♕51'53 45°56'18
	1811 Nov 14 18:01	0°♔			1814 Jun 06 13:06	0°♖
desc. node	1811 Nov 16 21:07	2°♔40'16			1814 Jul 04 01:20	0°♗
evening rise	1811 Nov 20 21:50	7°♔43'33			1814 Jul 30 04:07	0°♘
	1811 Dec 08 16:10	0°♕			1814 Aug 24 11:13	0°♐
	1812 Jan 01 15:05	0°♎		asc. node	1814 Aug 24 19:24	0°♐24'36
	1812 Jan 25 16:36	0°♏			1814 Sep 18 04:04	0°♑
	1812 Feb 19 00:00	0°♐			1814 Oct 12 10:42	0°♒
asc. node	1812 Mar 09 00:18	23°♐05'49			1814 Nov 05 10:57	0°♓
	1812 Mar 14 18:20	0°♑		morning set	1814 Nov 15 11:04	12°♓33'31
	1812 Apr 09 07:29	0°♒			1814 Nov 29 08:03	0°♔
	1812 May 06 08:05	0°♓		desc. node	1814 Dec 14 08:50	18°♔55'09
evening max el	1812 May 23 23:58	17°♓56'42	45°24'35		1814 Dec 23 04:07	0°♕
	1812 Jun 06 08:36	0°♐				
greatest brilliancy	1812 Jun 27 22:57	14°♐24'00	-4.5m	superior conj	1814 Dec 26 09:45	4°♕04'13 0°-28'-18
desc. node	1812 Jun 28 13:42	14°♐40'06		minimum elong	1814 Dec 26 02:27	3°♕41'17 0°27'58
retrograde	1812 Jul 11 14:01	17°♐37'40		max. Earth dist.	1814 Dec 27 09:32	5°♕19'02 1.71066 AU
evening set	1812 Jul 27 22:32	12°♐32'36			1815 Jan 16 00:31	0°♎
inferior conj	1812 Aug 02 00:13	9°♐28'26	-6°-58'-18	evening rise	1815 Feb 05 19:55	26°♎06'34
minimum elong	1812 Aug 01 14:39	9°♐43'18	6°56'39		1815 Feb 08 22:29	0°♏
min. Earth dist.	1812 Aug 02 01:38	9°♐26'13	0.28921 AU		1815 Mar 04 23:42	0°♐
morning rise	1812 Aug 06 06:40	6°♐51'57			1815 Mar 29 06:13	0°♑
direct	1812 Aug 23 15:32	1°♐12'00		asc. node	1815 Apr 06 12:21	10°♑07'16
greatest brilliancy	1812 Sep 06 23:29	4°♐49'03	-4.5m		1815 Apr 22 20:19	0°♒
	1812 Oct 09 18:17	0°♑			1815 May 17 20:46	0°♓
morning max el	1812 Oct 12 09:11	2°♑34'07	46°19'52		1815 Jun 12 12:32	0°♔
asc. node	1812 Oct 19 17:09	10°♑00'56			1815 Jul 09 07:18	0°♕
	1812 Nov 07 02:22	0°♒		desc. node	1815 Jul 27 01:25	18°♕38'11
	1812 Dec 02 21:14	0°♓		evening max el	1815 Aug 04 11:52	26°♕56'05 45°46'52
	1812 Dec 27 16:22	0°♔			1815 Aug 07 17:41	0°♖
	1813 Jan 21 01:32	0°♕		greatest brilliancy	1815 Sep 11 19:26	24°♖54'56 -4.5m
desc. node	1813 Feb 08 06:27	22°♕32'15		retrograde	1815 Sep 22 10:41	26°♖57'23
	1813 Feb 14 06:57	0°♎		evening set	1815 Oct 09 11:19	21°♖31'45
	1813 Mar 10 11:37	0°♏		inferior conj	1815 Oct 13 09:23	19°♖10'30 -7°-25'-1

minimum elong	1815 Oct 13 19:02	18°♁55'42	7°23'24		1818 Mar 19 13:19	0°♃	
min. Earth dist.	1815 Oct 14 08:11	18°♁35'32	0.27502 AU		1818 Apr 12 17:43	0°♄	
morning rise	1815 Oct 18 02:16	16°♁21'00		evening rise	1818 Apr 21 05:17	10°♄28'26	
direct	1815 Nov 03 08:06	11°♁13'46		asc. node	1818 May 04 00:12	26°♄13'09	
greatest brilliancy	1815 Nov 17 08:23	14°♁48'08	-4.6m		1818 May 07 02:03	0°♁	
asc. node	1815 Nov 17 04:50	14°♁43'53			1818 May 31 14:35	0°♂	
	1815 Dec 08 19:31	0°♂			1818 Jun 25 07:49	0°♁	
morning max el	1815 Dec 24 01:11	14°♂34'14	46°55'46		1818 Jul 20 07:26	0°♂	
	1816 Jan 07 13:58	0°♂			1818 Aug 14 16:58	0°♁	
	1816 Feb 02 22:44	0°♂		desc. node	1818 Aug 23 13:21	10°♁17'08	
	1816 Feb 28 06:13	0°♂			1818 Sep 09 19:19	0°♂	
desc. node	1816 Mar 07 18:22	10°♂12'54			1818 Oct 07 07:51	0°♂	
	1816 Mar 24 03:38	0°♂		evening max el	1818 Oct 16 17:53	9°♂34'59	46°55'21
	1816 Apr 17 20:51	0°♃			1818 Nov 08 15:39	0°♂	
	1816 May 12 12:21	0°♄		greatest brilliancy	1818 Nov 24 12:52	9°♄33'13	-4.7m
	1816 Jun 06 02:42	0°♁		retrograde	1818 Dec 06 03:05	12°♄04'01	
morning set	1816 Jun 25 12:10	23°♁42'50		asc. node	1818 Dec 14 16:44	10°♄32'54	
asc. node	1816 Jun 28 21:45	27°♁52'47		evening set	1818 Dec 20 11:28	7°♄56'57	
	1816 Jun 30 15:17	0°♂		min. Earth dist.	1818 Dec 26 04:36	4°♄37'13	0.26455 AU
	1816 Jul 25 01:10	0°♁		inferior conj	1818 Dec 26 15:30	4°♄20'38	3°03'07
max. Earth dist.	1816 Jul 29 00:00	4°♁52'15	1.73285 AU	minimum elong	1818 Dec 26 08:51	4°♄30'45	3°01'06
				morning rise	1819 Jan 01 06:30	1°♄02'44	
superior conj	1816 Jul 31 21:20	8°♁26'04	1°07'47		1819 Jan 03 06:57	30°♂	
minimum elong	1816 Jul 31 12:50	7°♁59'52	1°07'32	direct	1819 Jan 15 23:57	26°♂43'35	
	1816 Aug 18 08:10	0°♂		greatest brilliancy	1819 Jan 27 11:24	29°♂12'16	-4.7m
evening rise	1816 Sep 06 01:18	23°♂11'24			1819 Jan 29 07:18	0°♂	
	1816 Sep 11 13:05	0°♁		morning max el	1819 Mar 07 05:15	29°♄12'50	46°40'55
	1816 Oct 05 17:13	0°♂			1819 Mar 08 00:10	0°♂	
desc. node	1816 Oct 18 11:15	15°♂49'09			1819 Apr 05 03:27	0°♂	
	1816 Oct 29 21:43	0°♂		desc. node	1819 Apr 05 06:19	0°♂07'59	
	1816 Nov 23 03:29	0°♂			1819 May 01 11:13	0°♃	
	1816 Dec 17 12:21	0°♂			1819 May 27 01:40	0°♄	
	1817 Jan 11 04:55	0°♂			1819 Jun 21 06:44	0°♁	
	1817 Feb 05 15:24	0°♃			1819 Jul 16 04:34	0°♂	
asc. node	1817 Feb 08 14:24	3°♃23'29		asc. node	1819 Jul 27 09:38	13°♂37'15	
	1817 Mar 04 20:26	0°♄			1819 Aug 09 19:22	0°♁	
evening max el	1817 Mar 11 23:10	7°♄14'01	46°14'15	morning set	1819 Sep 02 13:22	29°♁16'06	
	1817 Apr 07 11:53	0°♁			1819 Sep 03 03:33	0°♂	
greatest brilliancy	1817 Apr 15 21:28	4°♁54'47	-4.5m		1819 Sep 27 06:34	0°♁	
retrograde	1817 Apr 30 14:16	8°♁45'39		max. Earth dist.	1819 Oct 06 21:40	12°♁01'23	1.71906 AU
evening set	1817 May 16 00:24	4°♁08'07					
inferior conj	1817 May 22 00:27	0°♁30'23	2°08'39	superior conj	1819 Oct 09 19:27	15°♁39'30	1°13'32
minimum elong	1817 May 22 05:03	0°♁23'10	2°07'19	minimum elong	1819 Oct 10 04:12	16°♁06'49	1°13'18
min. Earth dist.	1817 May 22 01:26	0°♁28'50	0.28807 AU		1819 Oct 21 06:29	0°♂	
	1817 May 22 19:48	30°♄			1819 Nov 14 05:02	0°♂	
morning rise	1817 May 28 09:50	26°♄39'28		desc. node	1819 Nov 15 23:04	2°♂11'46	
desc. node	1817 May 31 03:42	25°♄15'00		evening rise	1819 Nov 18 09:13	5°♂14'04	
direct	1817 Jun 12 11:46	22°♄15'07			1819 Dec 08 03:21	0°♂	
greatest brilliancy	1817 Jun 25 14:39	25°♄15'29	-4.5m		1820 Jan 01 02:25	0°♂	
	1817 Jul 04 10:41	0°♁			1820 Jan 25 04:09	0°♂	
morning max el	1817 Jul 31 05:29	21°♁54'53	45°45'21		1820 Feb 18 11:54	0°♃	
	1817 Aug 08 11:09	0°♂		asc. node	1820 Mar 08 02:29	22°♃35'14	
	1817 Sep 05 11:26	0°♁			1820 Mar 14 06:54	0°♄	
asc. node	1817 Sep 21 07:26	18°♁06'44			1820 Apr 08 21:25	0°♁	
	1817 Oct 01 10:29	0°♂			1820 May 06 01:25	0°♂	
	1817 Oct 26 08:22	0°♁		evening max el	1820 May 21 16:17	15°♂47'34	45°25'03
	1817 Nov 19 16:17	0°♂			1820 Jun 06 15:48	0°♁	
	1817 Dec 13 17:14	0°♂		greatest brilliancy	1820 Jun 25 13:55	12°♁13'51	-4.5m
	1818 Jan 06 15:28	0°♂		desc. node	1820 Jun 27 15:40	13°♁05'53	
desc. node	1818 Jan 10 20:37	5°♂17'25		retrograde	1820 Jul 09 05:42	15°♁28'13	
	1818 Jan 30 13:19	0°♂		evening set	1820 Jul 25 11:37	10°♁27'37	
morning set	1818 Jan 31 06:03	0°♂52'26		inferior conj	1820 Jul 30 16:18	7°♁18'45	-6°-46'-2
	1818 Feb 23 12:12	0°♂		minimum elong	1820 Jul 30 06:36	7°♁33'54	6°44'17
				min. Earth dist.	1820 Jul 30 17:08	7°♁17'27	0.28937 AU
superior conj	1818 Mar 13 01:08	21°♂53'47	-1°-25'-20	morning rise	1820 Aug 04 01:28	4°♁38'00	
minimum elong	1818 Mar 13 03:57	22°♂02'36	1°25'20		1820 Aug 14 08:38	30°♂	
max. Earth dist.	1818 Mar 16 23:42	26°♂48'18	1.72123 AU	direct	1820 Aug 21 08:03	29°♂02'21	

	1820 Aug 28 12:23	0°♁		asc. node	1823 Apr 05 14:22	9°♄38'56	
greatest brilliancy	1820 Sep 04 13:51	2°♁36'28	-4.5m		1823 Apr 22 07:50	0°♁	
	1820 Oct 09 16:39	0°♁			1823 May 17 08:57	0°♁	
morning max el	1820 Oct 09 23:40	0°♁17'20	46°18'12		1823 Jun 12 02:01	0°♁	
asc. node	1820 Oct 18 19:08	9°♁15'57			1823 Jul 08 23:38	0°♁	
	1820 Nov 06 18:12	0°♁		desc. node	1823 Jul 26 03:35	17°♁53'01	
	1820 Dec 02 10:51	0°♁		evening max el	1823 Aug 02 00:40	24°♁36'58	45°44'59
	1820 Dec 27 04:56	0°♁			1823 Aug 07 18:52	0°♁	
	1821 Jan 20 13:29	0°♁		greatest brilliancy	1823 Sep 09 06:52	22°♁33'56	-4.5m
desc. node	1821 Feb 07 08:32	22°♁02'40		retrograde	1823 Sep 19 23:48	24°♁38'11	
	1821 Feb 13 18:28	0°♁		evening set	1823 Oct 07 03:42	19°♁07'23	
	1821 Mar 09 22:50	0°♁		inferior conj	1823 Oct 10 23:03	16°♁50'13	-7°-36'-20
	1821 Apr 03 04:08	0°♁		minimum elong	1823 Oct 11 08:19	16°♁36'01	7°34'53
morning set	1821 Apr 15 15:31	15°♁25'05		min. Earth dist.	1823 Oct 11 22:00	16°♁15'04	0.27575 AU
	1821 Apr 27 11:09	0°♁		morning rise	1823 Oct 15 12:28	14°♁05'48	
	1821 May 21 19:54	0°♁		direct	1823 Oct 31 22:15	8°♁52'05	
				greatest brilliancy	1823 Nov 15 01:32	12°♁29'55	-4.6m
superior conj	1821 May 23 03:52	1°♁38'15	0°-19'-41	asc. node	1823 Nov 16 06:52	13°♁06'27	
minimum elong	1821 May 23 07:58	1°♁50'53	0°19'30		1823 Dec 09 01:29	0°♁	
max. Earth dist.	1821 May 24 08:01	3°♁04'49	1.73449 AU	morning max el	1823 Dec 21 15:38	12°♁11'46	46°55'19
asc. node	1821 May 31 12:00	11°♁53'23			1824 Jan 07 08:03	0°♁	
	1821 Jun 15 05:47	0°♁			1824 Feb 02 13:25	0°♁	
evening rise	1821 Jun 28 15:24	16°♁27'20			1824 Feb 27 19:18	0°♁	
	1821 Jul 09 16:11	0°♁		desc. node	1824 Mar 06 20:31	9°♁41'07	
	1821 Aug 03 03:14	0°♁			1824 Mar 23 15:47	0°♁	
	1821 Aug 27 15:58	0°♁			1824 Apr 17 08:22	0°♁	
desc. node	1821 Sep 20 01:22	28°♁27'40			1824 May 11 23:26	0°♁	
	1821 Sep 21 07:50	0°♁			1824 Jun 05 13:30	0°♁	
	1821 Oct 16 04:41	0°♁		morning set	1824 Jun 23 06:14	21°♁38'30	
	1821 Nov 10 10:06	0°♁		asc. node	1824 Jun 27 23:54	27°♁26'42	
	1821 Dec 06 10:36	0°♁			1824 Jun 30 01:55	0°♁	
evening max el	1821 Dec 28 04:53	23°♁27'08	47°15'12		1824 Jul 24 11:45	0°♁	
	1822 Jan 03 18:25	0°♁		max. Earth dist.	1824 Jul 26 22:18	3°♁00'27	1.73316 AU
asc. node	1822 Jan 11 04:39	6°♁57'17					
greatest brilliancy	1822 Feb 03 18:47	23°♁49'26	-4.6m	superior conj	1824 Jul 29 15:44	6°♁22'12	1°05'51
retrograde	1822 Feb 17 02:22	27°♁06'29		minimum elong	1824 Jul 29 07:06	5°♁55'33	1°05'35
evening set	1822 Mar 07 02:16	20°♁49'58			1824 Aug 17 18:47	0°♁	
min. Earth dist.	1822 Mar 09 12:39	19°♁18'49	0.27870 AU	evening rise	1824 Sep 03 18:27	21°♁02'38	
inferior conj	1822 Mar 10 01:56	18°♁57'53	8°45'57		1824 Sep 10 23:50	0°♁	
minimum elong	1822 Mar 10 03:43	18°♁55'03	8°45'55		1824 Oct 05 04:13	0°♁	
morning rise	1822 Mar 13 05:23	17°♁00'34		desc. node	1824 Oct 17 13:15	15°♁20'41	
direct	1822 Mar 30 23:07	10°♁59'51			1824 Oct 29 09:03	0°♁	
greatest brilliancy	1822 Apr 10 21:30	13°♁11'19	-4.6m		1824 Nov 22 15:15	0°♁	
desc. node	1822 May 02 17:52	26°♁54'42			1824 Dec 17 00:40	0°♁	
	1822 May 06 10:45	0°♁			1825 Jan 10 18:07	0°♁	
morning max el	1822 May 19 02:21	11°♁33'37	45°57'35		1825 Feb 05 06:22	0°♁	
	1822 Jun 06 06:49	0°♁		asc. node	1825 Feb 07 16:33	2°♁46'10	
	1822 Jul 03 15:22	0°♁			1825 Mar 04 16:01	0°♁	
	1822 Jul 29 16:32	0°♁		evening max el	1825 Mar 09 14:22	4°♁59'08	46°16'48
	1822 Aug 23 22:48	0°♁			1825 Apr 08 13:47	0°♁	
asc. node	1822 Aug 23 21:35	29°♁56'19		greatest brilliancy	1825 Apr 13 13:21	2°♁43'54	-4.5m
	1822 Sep 17 15:15	0°♁		retrograde	1825 Apr 28 07:17	6°♁35'54	
	1822 Oct 11 21:42	0°♁		evening set	1825 May 13 18:24	1°♁55'34	
	1822 Nov 04 21:53	0°♁			1825 May 17 00:41	30°♁	
morning set	1822 Nov 12 23:34	10°♁07'45		inferior conj	1825 May 19 16:39	28°♁20'18	2°28'04
	1822 Nov 28 18:56	0°♁		minimum elong	1825 May 19 21:54	28°♁12'04	2°26'34
desc. node	1822 Dec 13 10:53	18°♁27'17		min. Earth dist.	1825 May 19 17:29	28°♁19'00	0.28792 AU
	1822 Dec 22 15:01	0°♁		morning rise	1825 May 26 01:36	24°♁30'21	
				desc. node	1825 May 30 05:47	22°♁27'14	
superior conj	1822 Dec 23 19:30	1°♁29'39	0°-24'-28	direct	1825 Jun 10 03:50	20°♁05'11	
minimum elong	1822 Dec 23 13:07	1°♁09'35	0°24'11	greatest brilliancy	1825 Jun 23 05:46	23°♁05'11	-4.5m
max. Earth dist.	1822 Dec 24 11:39	2°♁20'27	1.71063 AU		1825 Jul 05 08:55	0°♁	
	1823 Jan 15 11:26	0°♁		morning max el	1825 Jul 28 22:22	19°♁47'42	45°45'02
evening rise	1823 Feb 03 06:11	23°♁34'07			1825 Aug 08 06:20	0°♁	
	1823 Feb 08 09:26	0°♁			1825 Sep 05 01:58	0°♁	
	1823 Mar 04 10:43	0°♁		asc. node	1825 Sep 20 09:24	17°♁33'48	
	1823 Mar 28 17:24	0°♁			1825 Sep 30 23:13	0°♁	

	1825 Oct 25 20:15	0°♁		evening max el	1828 May 19 07:45	13°♁35'52	45°25'39
	1825 Nov 19 03:45	0°♁			1828 Jun 07 01:58	0°♁	
	1825 Dec 13 04:29	0°♁		greatest brilliancy	1828 Jun 23 04:44	10°♁02'59	-4.5m
	1826 Jan 06 02:35	0°♁		desc. node	1828 Jun 26 17:49	11°♁27'59	
desc. node	1826 Jan 09 22:47	4°♁49'21		retrograde	1828 Jul 06 21:01	13°♁18'27	
morning set	1826 Jan 28 15:50	28°♁18'07		evening set	1828 Jul 23 00:42	8°♁21'59	
	1826 Jan 30 00:20	0°♁		inferior conj	1828 Jul 28 08:23	5°♁08'46	-6°-33'-14
	1826 Feb 22 23:06	0°♁		minimum elong	1828 Jul 27 22:32	5°♁24'08	6°31'23
				min. Earth dist.	1828 Jul 28 08:58	5°♁07'50	0.28950 AU
superior conj	1826 Mar 10 13:29	19°♁28'53	-1°-25'-44	morning rise	1828 Aug 01 20:12	2°♁23'44	
minimum elong	1826 Mar 10 15:23	19°♁34'48	1°25'45		1828 Aug 06 07:22	30°♁	
max. Earth dist.	1826 Mar 14 12:26	24°♁24'45	1.72069 AU	direct	1828 Aug 19 00:00	26°♁52'11	
	1826 Mar 19 00:08	0°♁			1828 Sep 01 07:34	0°♁	
	1826 Apr 12 04:30	0°♁		greatest brilliancy	1828 Sep 02 04:36	0°♁23'57	-4.5m
evening rise	1826 Apr 18 20:08	8°♁12'59		morning max el	1828 Oct 07 13:41	27°♁59'03	46°16'41
asc. node	1826 May 03 02:12	25°♁45'59			1828 Oct 09 14:20	0°♁	
	1826 May 06 12:55	0°♁		asc. node	1828 Oct 17 21:09	8°♁31'18	
	1826 May 31 01:38	0°♁			1828 Nov 06 09:55	0°♁	
	1826 Jun 24 19:15	0°♁			1828 Dec 02 00:26	0°♁	
	1826 Jul 19 19:32	0°♁			1828 Dec 26 17:28	0°♁	
	1826 Aug 14 06:14	0°♁			1829 Jan 20 01:24	0°♁	
desc. node	1826 Aug 22 15:26	9°♁43'15		desc. node	1829 Feb 06 10:37	21°♁33'07	
	1826 Sep 09 10:45	0°♁			1829 Feb 13 06:00	0°♁	
	1826 Oct 07 04:19	0°♁			1829 Mar 09 10:05	0°♁	
evening max el	1826 Oct 14 08:31	7°♁14'49	46°53'18		1829 Apr 02 15:10	0°♁	
	1826 Nov 09 13:04	0°♁		morning set	1829 Apr 13 06:57	13°♁10'44	
greatest brilliancy	1826 Nov 22 02:25	7°♁05'57	-4.7m		1829 Apr 26 22:02	0°♁	
retrograde	1826 Dec 03 15:56	9°♁35'04					
asc. node	1826 Dec 13 18:49	7°♁28'45		superior conj	1829 May 20 21:02	29°♁30'18	0°-22'-50
evening set	1826 Dec 17 22:54	5°♁29'53		minimum elong	1829 May 21 01:46	29°♁44'52	0°22'38
min. Earth dist.	1826 Dec 23 17:53	2°♁07'16	0.26439 AU		1829 May 21 06:41	0°♁	
inferior conj	1826 Dec 24 03:44	1°♁52'16	2°39'50	max. Earth dist.	1829 May 22 03:39	1°♁04'27	1.73423 AU
minimum elong	1826 Dec 23 21:51	2°♁01'14	2°38'00	asc. node	1829 May 30 14:08	11°♁26'47	
	1826 Dec 27 06:21	30°♁			1829 Jun 14 16:34	0°♁	
morning rise	1826 Dec 29 21:06	28°♁31'18		evening rise	1829 Jun 26 10:05	14°♁24'05	
direct	1827 Jan 13 12:47	24°♁15'38			1829 Jul 09 03:05	0°♁	
greatest brilliancy	1827 Jan 25 00:32	26°♁44'50	-4.7m		1829 Aug 02 14:24	0°♁	
	1827 Jan 31 12:55	0°♁			1829 Aug 27 03:33	0°♁	
morning max el	1827 Mar 04 18:47	26°♁49'32	46°42'05	desc. node	1829 Sep 19 03:20	27°♁56'47	
	1827 Mar 07 22:30	0°♁			1829 Sep 20 20:02	0°♁	
desc. node	1827 Apr 04 08:15	29°♁28'23			1829 Oct 15 17:46	0°♁	
	1827 Apr 04 19:33	0°♁			1829 Nov 10 00:37	0°♁	
	1827 May 01 00:53	0°♁			1829 Dec 06 03:54	0°♁	
	1827 May 26 14:03	0°♁		evening max el	1829 Dec 25 18:27	21°♁02'24	47°16'12
	1827 Jun 20 18:21	0°♁			1830 Jan 03 20:05	0°♁	
	1827 Jul 15 15:44	0°♁		asc. node	1830 Jan 10 06:47	5°♁54'49	
asc. node	1827 Jul 26 11:45	13°♁10'06		greatest brilliancy	1830 Feb 01 11:49	21°♁31'38	-4.7m
	1827 Aug 09 06:16	0°♁		retrograde	1830 Feb 14 16:58	24°♁46'45	
morning set	1827 Aug 31 06:06	27°♁05'55		evening set	1830 Mar 04 17:06	18°♁30'44	
	1827 Sep 02 14:21	0°♁		min. Earth dist.	1830 Mar 07 02:53	17°♁00'40	0.27818 AU
	1827 Sep 26 17:22	0°♁		inferior conj	1830 Mar 07 16:41	16°♁38'55	8°47'55
max. Earth dist.	1827 Oct 04 08:00	9°♁29'58	1.71952 AU	minimum elong	1830 Mar 07 17:37	16°♁37'28	8°47'54
				morning rise	1830 Mar 10 18:18	14°♁44'23	
superior conj	1827 Oct 07 10:28	13°♁22'34	1°15'13	direct	1830 Mar 28 12:38	8°♁41'37	
minimum elong	1827 Oct 07 18:43	13°♁48'20	1°15'01	greatest brilliancy	1830 Apr 08 11:13	10°♁52'53	-4.6m
	1827 Oct 20 17:21	0°♁		desc. node	1830 May 01 20:01	25°♁51'28	
	1827 Nov 13 16:01	0°♁			1830 May 06 15:59	0°♁	
desc. node	1827 Nov 15 01:09	1°♁43'50		morning max el	1830 May 16 16:18	9°♁16'15	45°58'45
evening rise	1827 Nov 15 20:59	2°♁46'01			1830 Jun 06 00:20	0°♁	
	1827 Dec 07 14:27	0°♁			1830 Jul 03 05:31	0°♁	
	1827 Dec 31 13:42	0°♁			1830 Jul 29 05:09	0°♁	
	1828 Jan 24 15:41	0°♁		asc. node	1830 Aug 22 23:34	29°♁26'42	
	1828 Feb 17 23:51	0°♁			1830 Aug 23 10:38	0°♁	
asc. node	1828 Mar 07 04:25	22°♁03'40			1830 Sep 17 02:40	0°♁	
	1828 Mar 13 19:35	0°♁			1830 Oct 11 08:55	0°♁	
	1828 Apr 08 11:37	0°♁			1830 Nov 04 09:01	0°♁	
	1828 May 05 19:19	0°♁		morning set	1830 Nov 10 12:06	7°♁41'23	

	1830 Nov 28 06:05	0°♁		minimum elong	1833 May 17 14:51	26°♁00'42	2°45'31
desc. node	1830 Dec 12 13:01	17°♁58'50		min. Earth dist.	1833 May 17 09:29	26°♁09'08	0.28772 AU
				morning rise	1833 May 23 17:19	22°♁21'04	
superior conj	1830 Dec 21 05:17	28°♁54'16	0°-20'-35	desc. node	1833 May 29 07:51	19°♁43'34	
minimum elong	1830 Dec 20 23:52	28°♁37'13	0°20'20	direct	1833 Jun 07 20:19	17°♁55'14	
max. Earth dist.	1830 Dec 21 15:58	29°♁27'54	1.71063 AU	greatest brilliancy	1833 Jun 20 19:40	20°♁53'11	-4.5m
	1830 Dec 22 02:10	0°♁			1833 Jul 06 01:33	0°♁	
	1831 Jan 14 22:36	0°♁		morning max el	1833 Jul 26 15:10	17°♁39'49	45°44'33
evening rise	1831 Jan 31 16:37	21°♁01'28			1833 Aug 08 01:13	0°♁	
	1831 Feb 07 20:37	0°♁			1833 Sep 04 16:38	0°♁	
	1831 Mar 03 21:56	0°♁		asc. node	1833 Sep 19 11:26	17°♁00'18	
asc. node	1831 Mar 28 04:45	0°♁			1833 Sep 30 12:12	0°♁	
	1831 Apr 04 16:23	9°♁10'06			1833 Oct 25 08:26	0°♁	
	1831 Apr 21 19:34	0°♁			1833 Nov 18 15:32	0°♁	
	1831 May 16 21:25	0°♁			1833 Dec 12 16:02	0°♁	
	1831 Jun 11 15:54	0°♁			1834 Jan 05 14:00	0°♁	
desc. node	1831 Jul 08 16:37	0°♁		desc. node	1834 Jan 09 00:47	4°♁19'53	
evening max el	1831 Jul 25 05:39	17°♁05'56		morning set	1834 Jan 26 01:33	25°♁42'39	
	1831 Jul 30 14:36	22°♁19'50	45°43'12		1834 Jan 29 11:37	0°♁	
	1831 Aug 07 21:53	0°♁			1834 Feb 22 10:18	0°♁	
greatest brilliancy	1831 Sep 06 17:28	20°♁11'34	-4.5m				
retrograde	1831 Sep 17 13:31	22°♁18'26		superior conj	1834 Mar 08 01:44	17°♁02'33	-1°-26'00
evening set	1831 Oct 04 20:02	16°♁42'42		minimum elong	1834 Mar 08 02:39	17°♁05'27	1°26'00
inferior conj	1831 Oct 08 12:48	14°♁29'19	-7°-46'-41	max. Earth dist.	1834 Mar 12 02:13	22°♁03'25	1.72015 AU
minimum elong	1831 Oct 08 21:37	14°♁15'50	7°45'27		1834 Mar 18 11:15	0°♁	
min. Earth dist.	1831 Oct 09 11:26	13°♁54'41	0.27648 AU		1834 Apr 11 15:36	0°♁	
morning rise	1831 Oct 12 22:45	11°♁50'04		evening rise	1834 Apr 16 10:57	5°♁56'22	
direct	1831 Oct 29 12:59	6°♁30'02		asc. node	1834 May 02 04:23	25°♁18'33	
greatest brilliancy	1831 Nov 12 18:02	10°♁10'24	-4.6m		1834 May 06 00:03	0°♁	
asc. node	1831 Nov 15 09:01	11°♁32'00			1834 May 30 12:56	0°♁	
	1831 Dec 09 05:53	0°♁			1834 Jun 24 06:55	0°♁	
morning max el	1831 Dec 19 07:03	9°♁51'02	46°54'41		1834 Jul 19 07:53	0°♁	
	1832 Jan 07 02:03	0°♁			1834 Aug 13 19:51	0°♁	
	1832 Feb 02 04:15	0°♁		desc. node	1834 Aug 21 17:22	9°♁07'58	
	1832 Feb 27 08:36	0°♁			1834 Sep 09 02:44	0°♁	
desc. node	1832 Mar 05 22:25	9°♁07'47			1834 Oct 07 01:56	0°♁	
	1832 Mar 23 04:09	0°♁		evening max el	1834 Oct 11 22:50	4°♁52'52	46°50'58
	1832 Apr 16 20:06	0°♁			1834 Nov 10 19:15	0°♁	
	1832 May 11 10:44	0°♁		greatest brilliancy	1834 Nov 19 16:54	4°♁38'33	-4.7m
	1832 Jun 05 00:32	0°♁		retrograde	1834 Dec 01 04:10	7°♁04'39	
morning set	1832 Jun 21 00:35	19°♁34'16		asc. node	1834 Dec 12 20:53	4°♁17'59	
asc. node	1832 Jun 27 01:58	26°♁59'37		evening set	1834 Dec 15 10:30	3°♁01'16	
	1832 Jun 29 12:49	0°♁			1834 Dec 20 15:29	30°♁	
	1832 Jul 23 22:37	0°♁		min. Earth dist.	1834 Dec 21 07:33	29°♁35'31	0.26426 AU
max. Earth dist.	1832 Jul 24 20:58	1°♁08'50	1.73349 AU	inferior conj	1834 Dec 21 15:53	29°♁22'47	2°16'09
				minimum elong	1834 Dec 21 10:49	29°♁30'31	2°14'32
superior conj	1832 Jul 27 10:13	4°♁17'40	1°03'50	morning rise	1834 Dec 27 11:24	25°♁58'42	
minimum elong	1832 Jul 27 01:30	3°♁50'46	1°03'32	direct	1835 Jan 11 01:10	21°♁46'27	
	1832 Aug 17 05:42	0°♁		greatest brilliancy	1835 Jan 22 14:12	24°♁16'44	-4.7m
evening rise	1832 Sep 01 11:39	18°♁52'58			1835 Feb 02 00:44	0°♁	
	1832 Sep 10 10:55	0°♁		morning max el	1835 Mar 02 07:16	24°♁22'29	46°43'16
	1832 Oct 04 15:33	0°♁			1835 Mar 07 20:20	0°♁	
desc. node	1832 Oct 16 15:18	14°♁51'27		desc. node	1835 Apr 03 10:23	28°♁48'55	
	1832 Oct 28 20:44	0°♁			1835 Apr 04 11:40	0°♁	
	1832 Nov 22 03:22	0°♁			1835 Apr 30 14:41	0°♁	
	1832 Dec 16 13:23	0°♁			1835 May 26 02:36	0°♁	
	1833 Jan 10 07:47	0°♁			1835 Jun 20 06:09	0°♁	
asc. node	1833 Feb 04 21:55	0°♁			1835 Jul 15 03:02	0°♁	
	1833 Feb 06 18:31	2°♁06'56		asc. node	1835 Jul 25 13:46	12°♁42'11	
	1833 Mar 04 12:37	0°♁			1835 Aug 08 17:18	0°♁	
evening max el	1833 Mar 07 06:41	2°♁46'01	46°19'24	morning set	1835 Aug 28 23:10	24°♁56'23	
	1833 Apr 10 03:20	0°♁			1835 Sep 02 01:16	0°♁	
greatest brilliancy	1833 Apr 11 06:23	0°♁33'57	-4.5m		1835 Sep 26 04:20	0°♁	
retrograde	1833 Apr 26 00:31	4°♁25'37		max. Earth dist.	1835 Oct 01 19:51	7°♁02'49	1.72007 AU
	1833 May 11 00:19	30°♁					
evening set	1833 May 11 12:43	29°♁42'42		superior conj	1835 Oct 05 01:46	11°♁06'06	1°16'45
inferior conj	1833 May 17 09:00	26°♁09'54	2°47'09	minimum elong	1835 Oct 05 09:29	11°♁30'12	1°16'36

	1835 Oct 20 04:26	0°♁		desc. node	1838 Apr 30 22:07	24°♁49'03	
	1835 Nov 13 03:14	0°♁			1838 May 06 19:39	0°♁	
evening rise	1835 Nov 13 08:45	0°♁17'18		morning max el	1838 May 14 06:44	6°♁59'38	46°00'06
desc. node	1835 Nov 14 03:18	1°♁15'26			1838 Jun 05 17:32	0°♁	
	1835 Dec 07 01:49	0°♁			1838 Jul 02 19:30	0°♁	
	1835 Dec 31 01:15	0°♁			1838 Jul 28 17:38	0°♁	
	1836 Jan 24 03:29	0°♁		asc. node	1838 Aug 22 01:36	28°♁57'32	
	1836 Feb 17 12:05	0°♁			1838 Aug 22 22:20	0°♁	
asc. node	1836 Mar 06 06:29	21°♁31'45			1838 Sep 16 13:56	0°♁	
	1836 Mar 13 08:34	0°♁		greatest brilliancy	1838 Oct 07 09:57	25°♁44'57	-3.9m
	1836 Apr 08 02:10	0°♁			1838 Oct 10 19:58	0°♁	
	1836 May 05 13:50	0°♁			1838 Nov 03 19:58	0°♁	
evening max el	1836 May 16 22:42	11°♁22'26	45°26'26	morning set	1838 Nov 08 01:16	5°♁17'42	
	1836 Jun 07 15:49	0°♁			1838 Nov 27 17:01	0°♁	
greatest brilliancy	1836 Jun 20 18:54	7°♁51'12	-4.5m	desc. node	1838 Dec 11 15:01	17°♁30'39	
desc. node	1836 Jun 25 19:51	9°♁46'27					
retrograde	1836 Jul 04 12:34	11°♁09'09		superior conj	1838 Dec 18 15:22	26°♁20'28	0°-16'-42
evening set	1836 Jul 20 14:04	6°♁16'20		minimum elong	1838 Dec 18 10:57	26°♁06'32	0°16'29
inferior conj	1836 Jul 26 00:38	2°♁59'13	-6°-20'00	max. Earth dist.	1838 Dec 19 00:33	26°♁49'21	1.71070 AU
minimum elong	1836 Jul 25 14:43	3°♁14'42	6°18'02		1838 Dec 21 13:08	0°♁	
min. Earth dist.	1836 Jul 26 01:10	2°♁58'23	0.28960 AU		1839 Jan 14 09:37	0°♁	
morning rise	1836 Jul 30 15:08	0°♁10'05		evening rise	1839 Jan 29 03:02	18°♁29'07	
	1836 Jul 30 22:04	30°♁			1839 Feb 07 07:41	0°♁	
direct	1836 Aug 16 15:46	24°♁42'23			1839 Mar 03 09:04	0°♁	
greatest brilliancy	1836 Aug 30 20:15	28°♁13'02	-4.5m		1839 Mar 27 16:05	0°♁	
	1836 Sep 03 08:16	0°♁		asc. node	1839 Apr 03 08:32	8°♁41'46	
morning max el	1836 Oct 05 03:52	25°♁41'31	46°15'10		1839 Apr 21 07:16	0°♁	
	1836 Oct 09 11:10	0°♁			1839 May 16 09:52	0°♁	
asc. node	1836 Oct 16 23:21	7°♁47'52			1839 Jun 11 05:49	0°♁	
	1836 Nov 06 01:23	0°♁			1839 Jul 08 09:50	0°♁	
	1836 Dec 01 13:58	0°♁		desc. node	1839 Jul 24 07:36	16°♁18'10	
	1836 Dec 26 06:04	0°♁		evening max el	1839 Jul 28 05:22	20°♁05'14	45°41'32
	1837 Jan 19 13:26	0°♁			1839 Aug 08 02:25	0°♁	
desc. node	1837 Feb 05 12:37	21°♁02'47		greatest brilliancy	1839 Sep 04 04:12	17°♁50'14	-4.5m
	1837 Feb 12 17:39	0°♁		retrograde	1839 Sep 15 03:24	19°♁59'28	
	1837 Mar 08 21:27	0°♁		evening set	1839 Oct 02 12:23	14°♁19'15	
	1837 Apr 02 02:18	0°♁		inferior conj	1839 Oct 06 02:35	12°♁09'25	-7°-56'-23
morning set	1837 Apr 10 21:53	10°♁54'27		minimum elong	1839 Oct 06 10:53	11°♁56'42	7°55'18
	1837 Apr 26 08:59	0°♁		min. Earth dist.	1839 Oct 07 00:38	11°♁35'40	0.27714 AU
				morning rise	1839 Oct 10 09:02	9°♁35'16	
superior conj	1837 May 18 13:58	27°♁21'25	0°-26'00	direct	1839 Oct 27 04:03	4°♁09'17	
minimum elong	1837 May 18 19:20	27°♁37'54	0°25'46	greatest brilliancy	1839 Nov 10 09:17	7°♁50'27	-4.6m
max. Earth dist.	1837 May 19 21:59	28°♁59'53	1.73395 AU	asc. node	1839 Nov 14 11:00	10°♁01'38	
	1837 May 20 17:33	0°♁			1839 Dec 09 08:10	0°♁	
asc. node	1837 May 29 16:11	10°♁59'43		morning max el	1839 Dec 16 22:28	7°♁31'39	46°54'03
	1837 Jun 14 03:25	0°♁			1840 Jan 06 19:15	0°♁	
evening rise	1837 Jun 24 04:46	12°♁20'42			1840 Feb 01 18:33	0°♁	
	1837 Jul 08 14:02	0°♁			1840 Feb 26 21:30	0°♁	
	1837 Aug 02 01:35	0°♁		desc. node	1840 Mar 05 00:33	8°♁36'11	
	1837 Aug 26 15:06	0°♁			1840 Mar 22 16:13	0°♁	
desc. node	1837 Sep 18 05:29	27°♁26'44			1840 Apr 16 07:37	0°♁	
	1837 Sep 20 08:11	0°♁			1840 May 10 21:51	0°♁	
	1837 Oct 15 06:49	0°♁			1840 Jun 04 11:23	0°♁	
	1837 Nov 09 15:12	0°♁		morning set	1840 Jun 18 18:30	17°♁29'22	
	1837 Dec 05 21:35	0°♁		asc. node	1840 Jun 26 03:57	26°♁32'53	
evening max el	1837 Dec 23 07:54	18°♁37'03	47°16'51		1840 Jun 28 23:30	0°♁	
	1838 Jan 03 23:26	0°♁		max. Earth dist.	1840 Jul 22 18:35	29°♁14'49	1.73377 AU
asc. node	1838 Jan 09 08:44	4°♁49'42			1840 Jul 23 09:15	0°♁	
greatest brilliancy	1838 Jan 30 03:37	19°♁10'53	-4.7m				
retrograde	1838 Feb 12 07:28	22°♁25'16		superior conj	1840 Jul 25 04:21	2°♁12'47	1°01'42
evening set	1838 Mar 02 07:01	16°♁10'12		minimum elong	1840 Jul 24 19:34	1°♁45'45	1°01'24
min. Earth dist.	1838 Mar 04 16:37	14°♁40'40	0.27769 AU		1840 Aug 16 16:24	0°♁	
inferior conj	1838 Mar 05 07:00	14°♁18'03	8°48'55	evening rise	1840 Aug 30 04:42	16°♁43'40	
minimum elong	1838 Mar 05 07:03	14°♁17'58	8°48'54		1840 Sep 09 21:46	0°♁	
morning rise	1838 Mar 08 07:15	12°♁25'46			1840 Oct 04 02:40	0°♁	
direct	1838 Mar 26 01:44	6°♁21'22		desc. node	1840 Oct 15 17:25	14°♁23'10	
greatest brilliancy	1838 Apr 06 00:48	8°♁33'04	-4.6m		1840 Oct 28 08:10	0°♁	

	1840 Nov 21 15:11	0°☾			1843 Apr 30 03:53	0°♃		
	1840 Dec 16 01:45	0°♁			1843 May 25 14:39	0°♄		
	1841 Jan 09 21:06	0°♂			1843 Jun 19 17:31	0°♅		
	1841 Feb 04 13:13	0°♆			1843 Jul 14 14:00	0°♁		
asc. node	1841 Feb 05 20:35	1°♃28'54		asc. node	1843 Jul 24 15:49	12°♁15'21		
	1841 Mar 04 09:28	0°♄			1843 Aug 08 04:02	0°♂		
evening max el	1841 Mar 04 23:01	0°♄33'51	46°21'41	morning set	1843 Aug 26 15:57	22°♂46'53		
greatest brilliancy	1841 Apr 09 00:12	28°♄25'26	-4.5m		1843 Sep 01 11:56	0°♃		
	1841 Apr 12 14:38	0°♅			1843 Sep 25 15:01	0°♄		
retrograde	1841 Apr 23 17:07	2°♅15'14		max. Earth dist.	1843 Sep 29 09:24	4°♄41'59	1.72062 AU	
	1841 May 04 06:33	30°♄						
evening set	1841 May 09 06:59	27°♄29'50		superior conj	1843 Oct 02 16:53	8°♄50'04	1°18'11	
inferior conj	1841 May 15 01:09	23°♄59'35	3°06'15	minimum elong	1843 Oct 03 00:02	9°♄12'22	1°18'02	
minimum elong	1841 May 15 07:35	23°♄49'28	3°04'28		1843 Oct 19 15:12	0°♃		
min. Earth dist.	1841 May 15 01:27	23°♄59'06	0.28754 AU	evening rise	1843 Nov 10 20:30	27°♃49'35		
morning rise	1841 May 21 08:36	20°♄11'52			1843 Nov 12 14:08	0°♄		
desc. node	1841 May 28 09:51	17°♄04'05		desc. node	1843 Nov 13 05:14	0°♄47'16		
direct	1841 Jun 05 12:39	15°♄45'25			1843 Dec 06 12:53	0°♁		
greatest brilliancy	1841 Jun 18 08:45	18°♄40'18	-4.5m		1843 Dec 30 12:31	0°♁		
	1841 Jul 06 13:45	0°♅			1844 Jan 23 15:00	0°♂		
morning max el	1841 Jul 24 07:07	15°♅30'32	45°44'07		1844 Feb 16 23:59	0°♆		
	1841 Aug 07 19:23	0°♁		asc. node	1844 Mar 05 08:38	21°♃01'08		
	1841 Sep 04 06:49	0°♂			1844 Mar 12 21:13	0°♄		
asc. node	1841 Sep 18 13:37	16°♂28'17			1844 Apr 07 16:26	0°♅		
	1841 Sep 30 00:47	0°♃			1844 May 05 08:20	0°♁		
	1841 Oct 24 20:14	0°♄		evening max el	1844 May 14 13:26	9°♁09'46	45°27'15	
	1841 Nov 18 02:56	0°♃			1844 Jun 08 09:43	0°♂		
	1841 Dec 12 03:13	0°♄		greatest brilliancy	1844 Jun 18 07:52	5°♂39'00	-4.5m	
	1842 Jan 05 01:00	0°♁		desc. node	1844 Jun 24 21:50	8°♂02'07		
desc. node	1842 Jan 08 02:48	3°♁51'41		retrograde	1844 Jul 02 04:27	9°♂00'57		
morning set	1842 Jan 23 11:37	23°♁09'29		evening set	1844 Jul 18 03:30	4°♂11'15		
	1842 Jan 28 22:29	0°♁		inferior conj	1844 Jul 23 16:52	0°♂50'27	-6°-6'-4	
	1842 Feb 21 21:02	0°♂		minimum elong	1844 Jul 23 06:57	1°♂05'55	6°04'02	
				min. Earth dist.	1844 Jul 23 17:13	0°♂49'54	0.28976 AU	
superior conj	1842 Mar 05 14:13	14°♂38'20	-1°-26'-5		1844 Jul 25 01:13	30°♁		
minimum elong	1842 Mar 05 14:08	14°♂38'06	1°26'06	morning rise	1844 Jul 28 10:08	27°♁57'21		
max. Earth dist.	1842 Mar 09 17:34	19°♂48'15	1.71960 AU	direct	1844 Aug 14 07:38	22°♁33'10		
	1842 Mar 17 21:56	0°♆		greatest brilliancy	1844 Aug 28 13:11	26°♁04'28	-4.5m	
	1842 Apr 11 02:17	0°♄			1844 Sep 04 16:22	0°♂		
evening rise	1842 Apr 14 01:45	3°♄40'51		morning max el	1844 Oct 02 18:55	23°♂26'47	46°13'42	
asc. node	1842 May 01 06:22	24°♄51'40			1844 Oct 09 07:10	0°♃		
	1842 May 05 10:48	0°♅		asc. node	1844 Oct 16 01:18	7°♃04'50		
	1842 May 29 23:54	0°♁			1844 Nov 05 16:28	0°♄		
	1842 Jun 23 18:18	0°♂			1844 Dec 01 03:12	0°♃		
	1842 Jul 18 20:01	0°♄			1844 Dec 25 18:22	0°♄		
	1842 Aug 13 09:17	0°♁			1845 Jan 19 01:12	0°♁		
desc. node	1842 Aug 20 19:32	8°♁34'02		desc. node	1845 Feb 04 14:42	20°♁33'29		
	1842 Sep 08 18:40	0°♃			1845 Feb 12 05:03	0°♁		
	1842 Oct 07 00:00	0°♄			1845 Mar 08 08:34	0°♂		
evening max el	1842 Oct 09 12:07	2°♄29'20	46°48'37		1845 Apr 01 13:11	0°♆		
	1842 Nov 12 14:07	0°♁		morning set	1845 Apr 08 12:54	8°♃39'00		
greatest brilliancy	1842 Nov 17 07:47	2°♁12'28	-4.7m		1845 Apr 25 19:40	0°♄		
retrograde	1842 Nov 28 15:42	4°♁35'10						
asc. node	1842 Dec 11 22:54	1°♁03'16		superior conj	1845 May 16 07:08	25°♄14'02	0°-29'-6	
evening set	1842 Dec 12 22:13	0°♁33'02		minimum elong	1845 May 16 13:05	25°♄32'20	0°28'49	
	1842 Dec 13 22:32	30°♄		max. Earth dist.	1845 May 17 17:01	26°♄58'15	1.73364 AU	
inferior conj	1842 Dec 19 03:59	26°♄54'16	1°52'01		1845 May 20 04:07	0°♅		
minimum elong	1842 Dec 18 23:46	27°♄00'42	1°50'40	asc. node	1845 May 28 18:10	10°♅33'20		
min. Earth dist.	1842 Dec 18 21:31	27°♄04'08	0.26414 AU		1845 Jun 13 14:00	0°♁		
morning rise	1842 Dec 25 01:26	23°♄27'13		evening rise	1845 Jun 21 23:45	10°♁19'06		
direct	1843 Jan 08 12:58	19°♄17'57			1845 Jul 08 00:46	0°♂		
greatest brilliancy	1843 Jan 20 04:48	21°♄50'34	-4.7m		1845 Aug 01 12:36	0°♃		
	1843 Feb 03 01:40	0°♁			1845 Aug 26 02:34	0°♄		
morning max el	1843 Feb 27 19:12	21°♁55'07	46°44'42	desc. node	1845 Sep 17 07:31	26°♁56'29		
	1843 Mar 07 16:54	0°♁			1845 Sep 19 20:18	0°♃		
desc. node	1843 Apr 02 12:29	28°♁11'07			1845 Oct 14 19:55	0°♄		
	1843 Apr 04 03:02	0°♂			1845 Nov 09 05:55	0°♁		

	1845 Dec 05 15:35	0°≈			1848 Jun 03 22:21	0°II		
evening max el	1845 Dec 20 22:08	16°≈14'06	47°17'36	morning set	1848 Jun 16 12:40	15°II24'49		
	1846 Jan 04 04:24	0°K		asc. node	1848 Jun 25 06:04	26°II06'11		
asc. node	1846 Jan 08 10:50	3°K43'30			1848 Jun 28 10:19	0°E		
greatest brilliancy	1846 Jan 27 18:27	16°K49'12	-4.7m	max. Earth dist.	1848 Jul 20 14:58	27°E16'44	1.73399 AU	
retrograde	1846 Feb 09 22:25	20°K03'58						
evening set	1846 Feb 27 20:26	13°K50'20		superior conj	1848 Jul 22 22:54	0°O08'56	0°59'30	
min. Earth dist.	1846 Mar 02 05:59	12°K21'08	0.27716 AU	minimum elong	1848 Jul 22 14:08	29°E41'55	0°59'12	
inferior conj	1846 Mar 02 21:15	11°K57'13	8°48'59		1848 Jul 22 20:00	0°O		
minimum elong	1846 Mar 02 20:27	11°K58'29	8°48'58		1848 Aug 16 03:12	0°M		
morning rise	1846 Mar 05 20:36	10°K06'35		evening rise	1848 Aug 27 22:16	14°M35'44		
direct	1846 Mar 23 15:15	4°K01'12			1848 Sep 09 08:44	0°A		
greatest brilliancy	1846 Apr 03 13:51	6°K12'56	-4.6m		1848 Oct 03 13:56	0°M		
desc. node	1846 Apr 30 00:03	23°K48'10		desc. node	1848 Oct 14 19:24	13°M53'57		
	1846 May 06 21:33	0°Y			1848 Oct 27 19:48	0°J		
morning max el	1846 May 11 22:02	4°Y45'32	46°01'34		1848 Nov 21 03:18	0°C		
	1846 Jun 05 10:11	0°B			1848 Dec 15 14:30	0°≈		
	1846 Jul 02 09:08	0°II			1849 Jan 09 10:55	0°K		
	1846 Jul 28 05:53	0°E			1849 Feb 04 05:11	0°Y		
asc. node	1846 Aug 21 03:45	28°E29'12		asc. node	1849 Feb 04 22:43	0°Y49'29		
	1846 Aug 22 09:53	0°O		evening max el	1849 Mar 02 14:37	28°Y18'29	46°24'10	
	1846 Sep 16 01:08	0°M			1849 Mar 04 07:34	0°B		
	1846 Oct 10 07:00	0°A		greatest brilliancy	1849 Apr 06 18:40	26°B16'44	-4.5m	
greatest brilliancy	1846 Oct 16 13:32	7°A49'08	-3.9m		1849 Apr 19 13:08	0°II		
	1846 Nov 03 06:58	0°M		retrograde	1849 Apr 21 09:17	0°II03'58		
morning set	1846 Nov 05 14:19	2°M53'35			1849 Apr 23 05:01	30°B		
	1846 Nov 27 04:01	0°J		evening set	1849 May 07 01:25	25°B16'00		
desc. node	1846 Dec 10 17:04	17°J02'23		inferior conj	1849 May 12 17:22	21°B48'33	3°25'03	
				minimum elong	1849 May 13 00:21	21°B37'33	3°23'07	
superior conj	1846 Dec 16 01:09	23°J45'27	0°-12'-44	min. Earth dist.	1849 May 12 17:45	21°B47'58	0.28730 AU	
minimum elong	1846 Dec 15 21:46	23°J34'46	0°12'35	morning rise	1849 May 18 23:41	18°B02'02		
behind sun begin	1846 Dec 15 04:42	22°J41'04		desc. node	1849 May 27 11:57	14°B28'16		
behind sun end	1846 Dec 16 14:50	24°J28'29		direct	1849 Jun 03 04:43	13°B34'54		
max. Earth dist.	1846 Dec 16 09:25	24°J11'27	1.71074 AU	greatest brilliancy	1849 Jun 15 21:57	16°B26'40	-4.5m	
	1846 Dec 21 00:10	0°C			1849 Jul 06 23:07	0°II		
	1847 Jan 13 20:41	0°≈		morning max el	1849 Jul 21 22:20	13°II18'42	45°43'51	
evening rise	1847 Jan 26 13:10	15°≈55'44			1849 Aug 07 13:19	0°E		
	1847 Feb 06 18:46	0°K			1849 Sep 03 21:04	0°O		
	1847 Mar 02 20:14	0°Y		asc. node	1849 Sep 17 15:32	15°O55'03		
	1847 Mar 27 03:27	0°B			1849 Sep 29 13:29	0°M		
asc. node	1847 Apr 02 20:30	8°B12'52			1849 Oct 24 08:12	0°A		
	1847 Apr 20 19:02	0°II			1849 Nov 17 14:34	0°M		
	1847 May 15 22:22	0°E			1849 Dec 11 14:40	0°J		
	1847 Jun 10 19:49	0°O			1850 Jan 04 12:21	0°C		
	1847 Jul 08 03:19	0°M		desc. node	1850 Jan 07 04:56	3°C22'49		
desc. node	1847 Jul 23 09:46	15°M30'27		morning set	1850 Jan 20 21:14	20°C33'38		
evening max el	1847 Jul 25 20:34	17°M52'05	45°39'50		1850 Jan 28 09:44	0°≈		
	1847 Aug 08 08:48	0°A			1850 Feb 21 08:13	0°K		
greatest brilliancy	1847 Sep 01 15:26	15°A30'11	-4.5m					
retrograde	1847 Sep 12 17:00	17°A41'02		superior conj	1850 Mar 03 02:04	12°K10'43	-1°-25'-59	
evening set	1847 Sep 30 04:43	11°A56'48		minimum elong	1850 Mar 03 00:59	12°K07'20	1°26'01	
inferior conj	1847 Oct 03 16:34	9°A50'05	-8°-5'-3	max. Earth dist.	1850 Mar 07 06:14	17°K23'21	1.71903 AU	
minimum elong	1847 Oct 04 00:18	9°A38'14	8°04'08		1850 Mar 17 09:03	0°Y		
min. Earth dist.	1847 Oct 04 13:56	9°A17'19	0.27785 AU		1850 Apr 10 13:22	0°B		
morning rise	1847 Oct 07 19:34	7°A20'44		evening rise	1850 Apr 11 15:53	1°B21'57		
direct	1847 Oct 24 19:29	1°A49'08		asc. node	1850 Apr 30 08:22	24°B23'40		
greatest brilliancy	1847 Nov 08 00:09	5°A29'52	-4.6m		1850 May 04 21:57	0°II		
asc. node	1847 Nov 13 13:02	8°A34'06			1850 May 29 11:15	0°E		
	1847 Dec 09 09:21	0°M			1850 Jun 23 06:05	0°O		
morning max el	1847 Dec 14 13:16	5°M10'00	46°53'10		1850 Jul 18 08:34	0°M		
	1848 Jan 06 12:24	0°J			1850 Aug 12 23:10	0°A		
	1848 Feb 01 08:59	0°C		desc. node	1850 Aug 19 21:36	7°A58'41		
	1848 Feb 26 10:33	0°≈			1850 Sep 08 11:09	0°M		
desc. node	1848 Mar 04 02:39	8°≈03'55			1850 Oct 06 23:11	0°J		
	1848 Mar 22 04:24	0°K		evening max el	1850 Oct 07 00:36	0°J03'29	46°46'19	
	1848 Apr 15 19:14	0°Y		greatest brilliancy	1850 Nov 14 22:21	29°J45'54	-4.7m	
	1848 May 10 09:04	0°B			1850 Nov 15 12:53	0°C		

retrograde	1850 Nov 26 03:17	2°☿06'00		superior conj	1853 May 13 23:50	23°♃04'00	0°-32'-11
	1850 Dec 06 07:57	30°♁		minimum elong	1853 May 14 06:22	23°♃24'06	0°31'54
evening set	1850 Dec 10 10:21	28°♁04'16		max. Earth dist.	1853 May 15 12:19	24°♃56'17	1.73337 AU
asc. node	1850 Dec 11 00:58	27°♁44'38			1853 May 19 15:04	0°♂	
inferior conj	1850 Dec 16 16:18	24°♁25'44	1°27'50	asc. node	1853 May 27 20:19	10°♂06'19	
minimum elong	1850 Dec 16 12:58	24°♁30'49	1°26'46		1853 Jun 13 00:57	0°♃	
min. Earth dist.	1850 Dec 16 11:46	24°♁32'38	0.26414 AU	evening rise	1853 Jun 19 18:17	8°♃15'04	
morning rise	1850 Dec 22 15:33	20°♁56'06			1853 Jul 07 11:51	0°♄	
direct	1851 Jan 06 00:50	16°♁49'01			1853 Jul 31 23:57	0°♅	
greatest brilliancy	1851 Jan 17 20:38	19°♁25'19	-4.7m		1853 Aug 25 14:21	0°♆	
	1851 Feb 03 20:29	0°♁		desc. node	1853 Sep 16 09:29	26°♆25'08	
morning max el	1851 Feb 25 07:34	19°♁27'24	46°45'52		1853 Sep 19 08:44	0°♇	
	1851 Mar 07 13:19	0°♁			1853 Oct 14 09:22	0°♈	
desc. node	1851 Apr 01 14:25	27°♁31'36			1853 Nov 08 21:02	0°♉	
	1851 Apr 03 18:43	0°♁			1853 Dec 05 10:13	0°♊	
	1851 Apr 29 17:30	0°♁		evening max el	1853 Dec 18 13:28	13°♊53'33	47°18'19
	1851 May 25 03:07	0°♁			1854 Jan 04 11:39	0°♋	
	1851 Jun 19 05:16	0°♂		asc. node	1854 Jan 07 12:56	2°♋35'11	
	1851 Jul 14 01:19	0°♃		greatest brilliancy	1854 Jan 25 09:16	14°♋27'17	-4.7m
asc. node	1851 Jul 23 17:55	11°♃47'32		retrograde	1854 Feb 07 13:46	17°♋42'24	
	1851 Aug 07 15:07	0°♄		evening set	1854 Feb 25 09:30	11°♋30'58	
morning set	1851 Aug 24 08:56	20°♄36'59		min. Earth dist.	1854 Feb 27 19:04	10°♋01'56	0.27663 AU
	1851 Aug 31 22:56	0°♅		inferior conj	1854 Feb 28 11:34	9°♋36'07	8°48'07
	1851 Sep 25 02:02	0°♆		minimum elong	1854 Feb 28 09:54	9°♋38'44	8°48'05
max. Earth dist.	1851 Sep 27 01:14	2°♆27'13	1.72112 AU	morning rise	1854 Mar 03 10:28	7°♋46'28	
				direct	1854 Mar 21 05:23	1°♋41'03	
superior conj	1851 Sep 30 08:29	6°♆34'29	1°19'27	greatest brilliancy	1854 Apr 01 02:00	3°♋51'36	-4.6m
minimum elong	1851 Sep 30 15:00	6°♆54'52	1°19'20	desc. node	1854 Apr 29 02:13	22°♋48'48	
	1851 Oct 19 02:18	0°♇			1854 May 06 22:18	0°♌	
evening rise	1851 Nov 08 08:55	25°♇23'11		morning max el	1854 May 09 13:37	2°♌31'35	46°02'45
	1851 Nov 12 01:20	0°♈			1854 Jun 05 02:45	0°♍	
desc. node	1851 Nov 12 07:20	0°♈18'46			1854 Jul 01 22:57	0°♎	
	1851 Dec 06 00:14	0°♉			1854 Jul 27 18:23	0°♏	
	1851 Dec 30 00:04	0°♊		asc. node	1854 Aug 20 05:43	27°♏59'34	
	1852 Jan 23 02:52	0°♋			1854 Aug 21 21:39	0°♐	
	1852 Feb 16 12:19	0°♌			1854 Sep 15 12:30	0°♑	
asc. node	1852 Mar 04 10:33	20°♌28'24			1854 Oct 09 18:11	0°♒	
	1852 Mar 12 10:24	0°♍		greatest brilliancy	1854 Oct 21 05:42	14°♒19'34	-3.9m
	1852 Apr 07 07:24	0°♎			1854 Nov 02 18:04	0°♓	
	1852 May 05 04:00	0°♏		morning set	1854 Nov 03 03:32	0°♓29'38	
evening max el	1852 May 12 04:37	6°♏56'43	45°28'18		1854 Nov 26 15:09	0°♈	
	1852 Jun 09 11:12	0°♐		desc. node	1854 Dec 09 19:12	16°♈34'04	
greatest brilliancy	1852 Jun 15 20:42	3°♐25'16	-4.5m				
desc. node	1852 Jun 23 23:58	6°♐12'36		superior conj	1854 Dec 13 11:10	21°♈10'51	0°-8'-46
retrograde	1852 Jun 29 20:53	6°♐51'26		minimum elong	1854 Dec 13 08:50	21°♈03'30	0°08'41
evening set	1852 Jul 15 17:04	2°♑04'38		behind sun begin	1854 Dec 12 10:14	19°♈52'23	
	1852 Jul 19 05:37	30°♑		behind sun end	1854 Dec 14 07:26	22°♈14'37	
inferior conj	1852 Jul 21 09:03	28°♑40'19	-5°-51'-38	max. Earth dist.	1854 Dec 13 17:07	21°♈29'34	1.71078 AU
minimum elong	1852 Jul 20 23:11	28°♑55'41	5°49'32		1854 Dec 20 11:20	0°♉	
min. Earth dist.	1852 Jul 21 08:53	28°♑40'34	0.28986 AU		1855 Jan 13 07:51	0°♊	
morning rise	1852 Jul 26 05:04	25°♑43'27		evening rise	1855 Jan 23 23:25	13°♊22'19	
direct	1852 Aug 11 23:45	20°♑22'43			1855 Feb 06 05:57	0°♋	
greatest brilliancy	1852 Aug 26 06:03	23°♑54'55	-4.5m		1855 Mar 02 07:29	0°♌	
	1852 Sep 05 15:56	0°♒			1855 Mar 26 14:54	0°♍	
morning max el	1852 Sep 30 10:49	21°♒13'24	46°12'15	asc. node	1855 Apr 01 22:33	7°♍43'57	
	1852 Oct 09 02:55	0°♓			1855 Apr 20 06:54	0°♎	
asc. node	1852 Oct 15 03:21	6°♓21'36			1855 May 15 11:04	0°♏	
	1852 Nov 05 07:38	0°♔			1855 Jun 10 10:08	0°♐	
	1852 Nov 30 16:36	0°♕			1855 Jul 07 21:27	0°♑	
	1852 Dec 25 06:52	0°♖		desc. node	1855 Jul 22 11:48	14°♑40'51	
	1853 Jan 18 13:10	0°♗		evening max el	1855 Jul 23 11:24	15°♑37'24	45°38'06
desc. node	1853 Feb 03 16:47	20°♗03'32			1855 Aug 08 18:01	0°♒	
	1853 Feb 11 16:40	0°♘		greatest brilliancy	1855 Aug 30 03:55	13°♒11'00	-4.5m
	1853 Mar 07 19:56	0°♙		retrograde	1855 Sep 10 06:14	15°♒22'14	
	1853 Apr 01 00:21	0°♚		evening set	1855 Sep 27 20:53	9°♒34'34	
morning set	1853 Apr 06 03:36	6°♚21'33		inferior conj	1855 Oct 01 06:35	7°♒30'41	-8°-12'-49
	1853 Apr 25 06:42	0°♛		minimum elong	1855 Oct 01 13:40	7°♒19'47	8°12'04

min. Earth dist.	1855 Oct 02 03:27	6°♁58'36	0.27849 AU	evening rise	1858 Apr 09 05:59	29°♃03'33	
morning rise	1855 Oct 05 06:11	5°♁05'57			1858 Apr 10 00:15	0°♃	
	1855 Oct 17 09:17	30°♃		asc. node	1858 Apr 29 10:32	23°♃56'52	
direct	1855 Oct 22 10:26	29°♃29'02			1858 May 04 08:53	0°♃	
	1855 Oct 27 13:49	0°♁			1858 May 28 22:22	0°♁	
greatest brilliancy	1855 Nov 05 14:38	3°♁08'44	-4.6m		1858 Jun 22 17:38	0°♁	
asc. node	1855 Nov 12 15:12	7°♁09'30			1858 Jul 17 20:54	0°♃	
	1855 Dec 09 09:22	0°♃			1858 Aug 12 12:56	0°♁	
morning max el	1855 Dec 12 02:58	2°♃45'34	46°52'15	desc. node	1858 Aug 18 23:32	7°♁23'24	
	1856 Jan 06 05:13	0°♃			1858 Sep 08 03:44	0°♃	
	1856 Jan 31 23:14	0°♁		evening max el	1858 Oct 04 12:42	27°♃37'11	46°43'54
	1856 Feb 25 23:29	0°♁			1858 Oct 06 23:19	0°♃	
desc. node	1856 Mar 03 04:35	7°♁31'17		greatest brilliancy	1858 Nov 12 12:07	27°♃18'20	-4.6m
	1856 Mar 21 16:30	0°♃		retrograde	1858 Nov 23 15:02	29°♃36'49	
	1856 Apr 15 06:46	0°♃		evening set	1858 Dec 07 22:28	25°♃34'50	
	1856 May 09 20:14	0°♃		asc. node	1858 Dec 10 03:03	24°♃22'14	
	1856 Jun 03 09:15	0°♃		inferior conj	1858 Dec 14 04:22	21°♃56'59	1°03'20
morning set	1856 Jun 14 06:53	13°♃20'33		minimum elong	1858 Dec 14 01:57	22°♃00'40	1°02'32
asc. node	1856 Jun 24 08:08	25°♃39'30		min. Earth dist.	1858 Dec 14 01:39	22°♃01'07	0.26415 AU
	1856 Jun 27 21:05	0°♁		morning rise	1858 Dec 20 05:17	18°♃25'18	
max. Earth dist.	1856 Jul 18 09:58	25°♁14'22	1.73428 AU	direct	1859 Jan 03 12:37	14°♃19'48	
				greatest brilliancy	1859 Jan 15 12:24	17°♃00'20	-4.7m
superior conj	1856 Jul 20 17:25	28°♁05'05	0°57'14		1859 Feb 04 10:19	0°♁	
minimum elong	1856 Jul 20 08:43	27°♁38'16	0°56'55	morning max el	1859 Feb 22 20:31	17°♁01'49	46°47'09
	1856 Jul 22 06:45	0°♁			1859 Mar 07 08:49	0°♁	
evening rise	1856 Aug 15 14:01	0°♃		desc. node	1859 Mar 31 16:36	26°♁54'11	
	1856 Aug 25 15:43	12°♃27'26			1859 Apr 03 09:50	0°♃	
	1856 Sep 08 19:45	0°♁			1859 Apr 29 06:40	0°♃	
	1856 Oct 03 01:12	0°♃			1859 May 24 15:12	0°♃	
desc. node	1856 Oct 13 21:29	13°♃25'10			1859 Jun 18 16:40	0°♃	
	1856 Oct 27 07:26	0°♃			1859 Jul 13 12:17	0°♁	
	1856 Nov 20 15:22	0°♁		asc. node	1859 Jul 22 19:55	11°♁20'29	
	1856 Dec 15 03:13	0°♁			1859 Aug 07 01:51	0°♁	
	1857 Jan 09 00:44	0°♃		morning set	1859 Aug 22 02:11	18°♁29'02	
	1857 Feb 03 21:17	0°♃			1859 Aug 31 09:35	0°♃	
asc. node	1857 Feb 04 00:40	0°♃09'31			1859 Sep 24 12:44	0°♁	
evening max el	1857 Feb 28 05:21	26°♃01'11	46°26'36	max. Earth dist.	1859 Sep 24 18:51	0°♁19'04	1.72167 AU
	1857 Mar 04 06:25	0°♃					
greatest brilliancy	1857 Apr 04 12:57	24°♃08'04	-4.6m	superior conj	1859 Sep 28 00:10	4°♁20'13	1°20'35
retrograde	1857 Apr 19 01:13	27°♃53'20		minimum elong	1859 Sep 28 06:04	4°♁38'35	1°20'30
evening set	1857 May 04 19:57	23°♃02'31			1859 Oct 18 13:07	0°♃	
inferior conj	1857 May 10 09:39	19°♃38'11	3°43'25	evening rise	1859 Nov 05 21:15	22°♃57'18	
minimum elong	1857 May 10 17:08	19°♃26'23	3°41'25	desc. node	1859 Nov 11 09:28	29°♃51'06	
min. Earth dist.	1857 May 10 10:18	19°♃37'11	0.28708 AU		1859 Nov 11 12:19	0°♃	
morning rise	1857 May 16 14:39	15°♃53'05			1859 Dec 05 11:24	0°♁	
desc. node	1857 May 26 14:01	11°♃57'45			1859 Dec 29 11:26	0°♁	
direct	1857 May 31 20:21	11°♃24'58			1860 Jan 22 14:29	0°♃	
greatest brilliancy	1857 Jun 13 12:01	14°♃14'38	-4.5m		1860 Feb 16 00:22	0°♃	
	1857 Jul 07 05:36	0°♃		asc. node	1860 Mar 03 12:38	19°♃57'00	
morning max el	1857 Jul 19 12:59	11°♃05'58	45°43'36		1860 Mar 11 23:19	0°♃	
	1857 Aug 07 06:40	0°♁			1860 Apr 06 22:10	0°♃	
	1857 Sep 03 11:01	0°♁			1860 May 04 23:50	0°♁	
asc. node	1857 Sep 16 17:37	15°♁22'45		evening max el	1860 May 09 20:40	4°♁46'54	45°29'25
	1857 Sep 29 02:01	0°♃			1860 Jun 10 22:20	0°♁	
	1857 Oct 23 20:04	0°♁		greatest brilliancy	1860 Jun 13 10:15	1°♁13'42	-4.5m
	1857 Nov 17 02:04	0°♃		desc. node	1860 Jun 23 02:01	4°♁20'17	
	1857 Dec 11 01:57	0°♃		retrograde	1860 Jun 27 13:39	4°♁43'10	
	1858 Jan 03 23:29	0°♁		evening set	1860 Jul 13 06:53	29°♁59'18	
desc. node	1858 Jan 06 06:57	2°♁54'12			1860 Jul 13 06:23	30°♁	
morning set	1858 Jan 18 06:45	17°♁58'07		inferior conj	1860 Jul 19 01:17	26°♁31'29	-5°-36'-46
	1858 Jan 27 20:45	0°♁		minimum elong	1860 Jul 18 15:31	26°♁46'40	5°34'36
	1858 Feb 20 19:09	0°♃		min. Earth dist.	1860 Jul 19 00:22	26°♁32'55	0.28993 AU
				morning rise	1860 Jul 24 00:01	23°♁30'57	
superior conj	1858 Feb 28 13:54	9°♃43'43	-1°-25'-45	direct	1860 Aug 09 16:26	18°♁13'49	
minimum elong	1858 Feb 28 11:48	9°♃37'11	1°25'46	greatest brilliancy	1860 Aug 23 22:11	21°♁45'58	-4.5m
max. Earth dist.	1858 Mar 04 16:43	14°♃52'13	1.71848 AU		1860 Sep 06 08:37	0°♁	
	1858 Mar 16 19:56	0°♃		morning max el	1860 Sep 28 03:02	19°♁02'23	46°10'45

	1860 Oct 08 21:38	0°♍			1863 Mar 01 18:35	0°♍	
asc. node	1860 Oct 14 05:31	5°♍40'29			1863 Mar 26 02:12	0°♌	
	1860 Nov 04 22:14	0°♌		asc. node	1863 Apr 01 00:42	7°♌15'46	
	1860 Nov 30 05:35	0°♌			1863 Apr 19 18:38	0°♌	
	1860 Dec 24 19:03	0°♌			1863 May 14 23:37	0°♌	
	1861 Jan 18 00:52	0°♌			1863 Jun 10 00:23	0°♌	
desc. node	1861 Feb 02 18:47	19°♌34'02			1863 Jul 07 15:45	0°♌	
	1861 Feb 11 04:03	0°♌		evening max el	1863 Jul 21 01:27	13°♌21'37	45°36'28
	1861 Mar 07 07:01	0°♌		desc. node	1863 Jul 21 13:47	13°♌51'01	
	1861 Mar 31 11:12	0°♌			1863 Aug 09 05:56	0°♌	
morning set	1861 Apr 03 18:02	4°♌04'07		greatest brilliancy	1863 Aug 27 17:14	10°♌53'54	-4.5m
	1861 Apr 24 17:23	0°♌		retrograde	1863 Sep 07 19:22	13°♌05'02	
				evening set	1863 Sep 25 13:01	7°♌14'13	
superior conj	1861 May 11 16:26	20°♌54'35	0°-35'-14	inferior conj	1863 Sep 28 20:51	5°♌12'54	-8°-19'-44
minimum elong	1861 May 11 23:31	21°♌16'23	0°34'56	minimum elong	1863 Sep 29 03:14	5°♌03'04	8°19'09
max. Earth dist.	1861 May 13 09:33	23°♌01'12	1.73306 AU	min. Earth dist.	1863 Sep 29 17:30	4°♌41'05	0.27912 AU
	1861 May 19 01:40	0°♌		morning rise	1863 Oct 02 17:09	2°♌52'37	
asc. node	1861 May 26 22:20	9°♌39'56			1863 Oct 08 02:58	30°♌	
	1861 Jun 12 11:35	0°♌		direct	1863 Oct 20 01:00	27°♌10'20	
evening rise	1861 Jun 17 12:56	6°♌12'22			1863 Nov 01 10:29	0°♌	
	1861 Jul 06 22:37	0°♌		greatest brilliancy	1863 Nov 03 05:53	0°♌49'47	-4.6m
	1861 Jul 31 10:58	0°♌		asc. node	1863 Nov 11 17:10	5°♌48'17	
	1861 Aug 25 01:47	0°♌			1863 Dec 09 08:01	0°♌	
desc. node	1861 Sep 15 11:40	25°♌55'29		morning max el	1863 Dec 09 16:06	0°♌20'35	46°51'28
	1861 Sep 18 20:50	0°♌			1864 Jan 05 21:25	0°♌	
	1861 Oct 13 22:31	0°♌			1864 Jan 31 13:05	0°♌	
	1861 Nov 08 12:00	0°♌			1864 Feb 25 12:06	0°♌	
	1861 Dec 05 05:03	0°♌		desc. node	1864 Mar 02 06:44	7°♌00'07	
evening max el	1861 Dec 16 05:07	11°♌34'22	47°18'38		1864 Mar 21 04:23	0°♌	
	1862 Jan 04 21:22	0°♌			1864 Apr 14 18:10	0°♌	
asc. node	1862 Jan 06 14:54	1°♌24'56			1864 May 09 07:17	0°♌	
greatest brilliancy	1862 Jan 23 00:56	12°♌06'24	-4.7m		1864 Jun 02 20:04	0°♌	
retrograde	1862 Feb 05 04:47	15°♌20'07		morning set	1864 Jun 12 00:52	11°♌15'51	
evening set	1862 Feb 22 21:55	9°♌11'53		asc. node	1864 Jun 23 10:07	25°♌12'55	
min. Earth dist.	1862 Feb 25 07:57	7°♌42'08	0.27607 AU		1864 Jun 27 07:44	0°♌	
inferior conj	1862 Feb 26 01:36	7°♌14'32	8°46'23	max. Earth dist.	1864 Jul 16 04:58	23°♌12'33	1.73452 AU
minimum elong	1862 Feb 25 23:04	7°♌18'29	8°46'17				
morning rise	1862 Mar 01 00:27	5°♌25'06		superior conj	1864 Jul 18 11:52	26°♌01'27	0°54'53
	1862 Mar 13 03:44	30°♌		minimum elong	1864 Jul 18 03:14	25°♌34'56	0°54'34
direct	1862 Mar 18 19:31	29°♌20'39			1864 Jul 21 17:21	0°♌	
	1862 Mar 24 15:09	0°♌			1864 Aug 15 00:43	0°♌	
greatest brilliancy	1862 Mar 29 13:26	1°♌29'15	-4.6m	evening rise	1864 Aug 23 09:20	10°♌20'09	
desc. node	1862 Apr 28 04:18	21°♌51'03			1864 Sep 08 06:39	0°♌	
	1862 May 06 21:42	0°♌			1864 Oct 02 12:24	0°♌	
morning max el	1862 May 07 04:21	0°♌16'05	46°04'04	desc. node	1864 Oct 12 23:35	12°♌56'41	
	1862 Jun 04 18:45	0°♌			1864 Oct 26 18:58	0°♌	
	1862 Jul 01 12:20	0°♌			1864 Nov 20 03:21	0°♌	
	1862 Jul 27 06:29	0°♌			1864 Dec 14 15:51	0°♌	
asc. node	1862 Aug 19 07:46	27°♌31'10			1865 Jan 08 14:30	0°♌	
	1862 Aug 21 09:04	0°♌		asc. node	1865 Feb 03 02:47	29°♌30'05	
	1862 Sep 14 23:34	0°♌			1865 Feb 03 13:29	0°♌	
	1862 Oct 09 05:03	0°♌		evening max el	1865 Feb 25 19:12	23°♌41'55	46°28'55
greatest brilliancy	1862 Oct 25 07:22	20°♌06'18	-3.9m		1865 Mar 04 06:08	0°♌	
morning set	1862 Oct 31 17:16	28°♌08'24		greatest brilliancy	1865 Apr 02 06:15	21°♌58'00	-4.6m
	1862 Nov 02 04:53	0°♌		retrograde	1865 Apr 16 17:11	25°♌42'40	
	1862 Nov 26 01:58	0°♌		evening set	1865 May 02 14:29	20°♌48'31	
desc. node	1862 Dec 08 21:12	16°♌06'17		inferior conj	1865 May 08 01:54	17°♌27'38	4°01'36
				minimum elong	1865 May 08 09:49	17°♌15'06	3°59'30
superior conj	1862 Dec 10 21:40	18°♌38'47	0°-4'-51	min. Earth dist.	1865 May 08 02:53	17°♌26'04	0.28689 AU
minimum elong	1862 Dec 10 20:23	18°♌34'44	0°04'48	morning rise	1865 May 14 05:26	13°♌44'19	
behind sun begin	1862 Dec 09 19:03	17°♌15'03		desc. node	1865 May 25 16:01	9°♌31'45	
behind sun end	1862 Dec 11 21:43	19°♌54'26		direct	1865 May 29 11:35	9°♌14'36	
max. Earth dist.	1862 Dec 10 23:22	18°♌44'07	1.71087 AU	greatest brilliancy	1865 Jun 11 03:10	12°♌03'38	-4.5m
	1862 Dec 19 22:12	0°♌			1865 Jul 07 10:06	0°♌	
	1863 Jan 12 18:46	0°♌		morning max el	1865 Jul 17 04:03	8°♌54'05	45°43'31
evening rise	1863 Jan 21 09:41	10°♌49'35			1865 Aug 06 23:40	0°♌	
	1863 Feb 05 16:56	0°♌			1865 Sep 03 00:49	0°♌	

asc. node	1865 Sep 15 19:47	14°♍50'55		evening max el	1868 May 07 13:22	2°♌38'05	45°30'34
	1865 Sep 28 14:28	0°♎		greatest brilliancy	1868 Jun 11 00:47	29°♌02'56	-4.5m
	1865 Oct 23 07:51	0°♎			1868 Jun 13 05:24	0°♍	
	1865 Nov 16 13:32	0°♎		desc. node	1868 Jun 22 04:00	2°♍23'15	
	1865 Dec 10 13:14	0°♎		retrograde	1868 Jun 25 06:23	2°♍34'15	
	1866 Jan 03 10:36	0°♏			1868 Jul 06 16:17	30°♌	
desc. node	1866 Jan 05 08:59	2°♏25'39		evening set	1868 Jul 10 21:00	27°♌53'24	
morning set	1866 Jan 15 16:32	15°♏23'16		inferior conj	1868 Jul 16 17:34	24°♌22'06	-5°-21'-29
	1866 Jan 27 07:46	0°♐		minimum elong	1868 Jul 16 08:00	24°♌37'01	5°19'18
	1866 Feb 20 06:05	0°♐		min. Earth dist.	1868 Jul 16 15:55	24°♌24'42	0.28999 AU
				morning rise	1868 Jul 21 18:58	21°♌17'50	
superior conj	1866 Feb 26 01:56	7°♐17'20	-1°-25'-20	direct	1868 Aug 07 09:26	16°♌04'31	
minimum elong	1866 Feb 25 22:49	7°♐07'36	1°25'20	greatest brilliancy	1868 Aug 21 13:25	19°♌35'10	-4.5m
max. Earth dist.	1866 Mar 02 01:40	12°♐16'21	1.71793 AU		1868 Sep 06 21:28	0°♍	
	1866 Mar 16 06:49	0°♑		morning max el	1868 Sep 25 19:12	16°♍50'23	46°09'12
evening rise	1866 Apr 06 20:15	26°♑45'37			1868 Oct 08 16:14	0°♎	
	1866 Apr 09 11:07	0°♒		asc. node	1868 Oct 13 07:29	4°♎58'18	
asc. node	1866 Apr 28 12:32	23°♒29'26			1868 Nov 04 12:59	0°♏	
	1866 May 03 19:51	0°♓			1868 Nov 29 18:46	0°♐	
	1866 May 28 09:35	0°♌			1868 Dec 24 07:26	0°♑	
	1866 Jun 22 05:18	0°♍			1869 Jan 17 12:48	0°♒	
	1866 Jul 17 09:25	0°♎		desc. node	1869 Feb 01 20:55	19°♒04'14	
	1866 Aug 12 02:56	0°♏			1869 Feb 10 15:40	0°♐	
desc. node	1866 Aug 18 01:43	6°♏48'16			1869 Mar 06 18:24	0°♑	
	1866 Sep 07 20:43	0°♐			1869 Mar 30 22:22	0°♒	
evening max el	1866 Oct 02 01:23	25°♐12'31	46°41'35	morning set	1869 Apr 01 08:24	1°♑45'24	
	1866 Oct 07 00:41	0°♑			1869 Apr 24 04:23	0°♒	
greatest brilliancy	1866 Nov 10 01:00	24°♑49'55	-4.6m				
retrograde	1866 Nov 21 03:21	27°♑07'51		superior conj	1869 May 09 09:01	18°♒44'09	0°-38'-15
evening set	1866 Dec 05 10:54	23°♑05'06		minimum elong	1869 May 09 16:36	19°♒07'31	0°37'55
asc. node	1866 Dec 09 05:04	20°♑57'38		max. Earth dist.	1869 May 11 07:34	21°♒07'29	1.73269 AU
inferior conj	1866 Dec 11 16:30	19°♑28'03	0°38'41		1869 May 18 12:35	0°♓	
minimum elong	1866 Dec 11 15:01	19°♑30'19	0°38'12	asc. node	1869 May 26 00:22	9°♓12'42	
min. Earth dist.	1866 Dec 11 15:16	19°♑29'55	0.26423 AU		1869 Jun 11 22:31	0°♌	
morning rise	1866 Dec 17 18:56	15°♑54'46		evening rise	1869 Jun 15 07:37	4°♌08'52	
direct	1867 Jan 01 01:01	11°♑50'21			1869 Jul 06 09:42	0°♍	
greatest brilliancy	1867 Jan 13 03:40	14°♑34'30	-4.7m		1869 Jul 30 22:20	0°♎	
	1867 Feb 04 20:49	0°♒			1869 Aug 24 13:37	0°♏	
morning max el	1867 Feb 20 10:39	14°♒38'47	46°48'27	desc. node	1869 Sep 14 13:40	25°♏24'02	
	1867 Mar 07 03:53	0°♓			1869 Sep 18 09:24	0°♐	
desc. node	1867 Mar 30 18:40	26°♓16'24			1869 Oct 13 12:12	0°♑	
	1867 Apr 03 00:51	0°♐			1869 Nov 08 03:35	0°♒	
	1867 Apr 28 19:50	0°♑			1869 Dec 05 00:48	0°♓	
	1867 May 24 03:20	0°♒		evening max el	1869 Dec 13 20:22	9°♓12'59	47°18'53
	1867 Jun 18 04:11	0°♓			1870 Jan 05 10:59	0°♐	
	1867 Jul 12 23:25	0°♌		asc. node	1870 Jan 05 17:01	0°♑11'51	
asc. node	1867 Jul 21 22:01	10°♌53'11		greatest brilliancy	1870 Jan 20 17:21	9°♑45'10	-4.7m
	1867 Aug 06 12:48	0°♍		retrograde	1870 Feb 02 19:19	12°♑56'12	
morning set	1867 Aug 19 19:27	16°♍20'34		evening set	1870 Feb 20 09:51	6°♑52'01	
	1867 Aug 30 20:28	0°♎		min. Earth dist.	1870 Feb 22 21:02	5°♑20'27	0.27550 AU
max. Earth dist.	1867 Sep 22 11:34	28°♎07'32	1.72217 AU	inferior conj	1870 Feb 23 15:32	4°♑51'29	8°43'42
	1867 Sep 23 23:39	0°♏		minimum elong	1870 Feb 23 12:10	4°♑56'45	8°43'32
				morning rise	1870 Feb 26 14:44	3°♑01'29	
superior conj	1867 Sep 25 15:54	2°♏05'31	1°21'35		1870 Mar 04 03:09	30°♓	
minimum elong	1867 Sep 25 21:07	2°♏21'48	1°21'31	direct	1870 Mar 16 09:21	26°♓58'51	
	1867 Oct 18 00:07	0°♐		greatest brilliancy	1870 Mar 27 01:03	29°♓05'29	-4.6m
evening rise	1867 Nov 03 09:40	20°♐31'08			1870 Mar 29 06:20	0°♐	
desc. node	1867 Nov 10 11:25	29°♐22'16		desc. node	1870 Apr 27 06:16	20°♐53'03	
	1867 Nov 10 23:28	0°♑		morning max el	1870 May 04 18:10	27°♐56'54	46°05'26
	1867 Dec 04 22:45	0°♒			1870 May 06 20:37	0°♑	
	1867 Dec 28 23:02	0°♓			1870 Jun 04 10:54	0°♒	
	1868 Jan 22 02:24	0°♐			1870 Jul 01 01:57	0°♓	
	1868 Feb 15 12:44	0°♑			1870 Jul 26 18:52	0°♌	
asc. node	1868 Mar 02 14:48	19°♑24'55		asc. node	1870 Aug 18 09:56	27°♌02'17	
	1868 Mar 11 12:34	0°♒			1870 Aug 20 20:47	0°♍	
	1868 Apr 06 13:22	0°♓			1870 Sep 14 10:55	0°♎	
	1868 May 04 20:33	0°♌			1870 Oct 08 16:16	0°♏	

greatest brilliancy	1870 Oct 28 17:05	25°♁02'16	-3.9m		1873 Mar 04 07:32	0°♄	
morning set	1870 Oct 29 06:48	25°♁45'14			1873 Mar 30 22:25	19°♄45'14	-4.6m
	1870 Nov 01 16:04	0°♃			1873 Apr 14 09:23	23°♄30'46	
	1870 Nov 25 13:11	0°♁			1873 Apr 30 08:56	18°♄32'49	
max. Earth dist.	1870 Dec 08 02:30	15°♁47'38	1.71096 AU		1873 May 05 17:57	15°♄15'40	4°19'32
desc. node	1870 Dec 07 23:16	15°♁37'28			1873 May 06 02:19	15°♄02'29	4°17'22
					1873 May 05 19:06	15°♄13'52	0.28670 AU
superior conj	1870 Dec 08 07:57	16°♁04'49	0°00'52		1873 May 11 19:54	11°♄34'37	
minimum elong	1870 Dec 08 07:43	16°♁04'03	0°00'52		1873 May 24 18:07	7°♄09'16	
behind sun begin	1870 Dec 07 05:35	14°♁41'52			1873 May 27 02:40	7°♄02'43	
behind sun end	1870 Dec 09 09:50	17°♁26'15			1873 Jun 08 18:32	9°♄51'55	-4.5m
	1870 Dec 19 09:27	0°♄			1873 Jul 07 13:14	0°♂	
	1871 Jan 12 06:03	0°♁			1873 Jul 14 19:52	6°♂43'18	45°43'32
evening rise	1871 Jan 18 19:35	8°♁14'35			1873 Aug 06 16:33	0°♄	
	1871 Feb 05 04:15	0°♁			1873 Sep 02 14:41	0°♂	
	1871 Mar 01 06:01	0°♁			1873 Sep 14 21:43	14°♂18'02	
	1871 Mar 25 13:54	0°♄			1873 Sep 28 03:00	0°♃	
asc. node	1871 Mar 31 02:40	6°♄45'53			1873 Oct 22 19:44	0°♁	
	1871 Apr 19 06:47	0°♂			1873 Nov 16 01:04	0°♃	
	1871 May 14 12:37	0°♄			1873 Dec 10 00:35	0°♁	
	1871 Jun 09 15:08	0°♂			1874 Jan 02 21:51	0°♄	
	1871 Jul 07 10:53	0°♃			1874 Jan 04 11:07	1°♄57'03	
evening max el	1871 Jul 18 14:48	11°♃03'25	45°35'00		1874 Jan 13 02:07	12°♄47'19	
desc. node	1871 Jul 20 15:58	12°♃59'54			1874 Jan 26 18:57	0°♁	
	1871 Aug 09 22:20	0°♁			1874 Feb 19 17:12	0°♁	
greatest brilliancy	1871 Aug 25 05:51	8°♁35'24	-4.5m				
retrograde	1871 Sep 05 08:31	10°♁47'32			1874 Feb 23 13:22	4°♁48'21	-1°24'-44
evening set	1871 Sep 23 04:56	4°♁53'36			1874 Feb 23 09:15	4°♁35'26	1°24'43
inferior conj	1871 Sep 26 11:11	2°♁54'38	-8°25'-45		1874 Feb 27 08:49	9°♁34'12	1.71742 AU
minimum elong	1871 Sep 26 16:50	2°♁45'55	8°25'17		1874 Mar 15 17:52	0°♁	
min. Earth dist.	1871 Sep 27 07:43	2°♁22'58	0.27979 AU		1874 Apr 04 09:55	24°♁25'16	
morning rise	1871 Sep 30 04:27	0°♁38'39			1874 Apr 08 22:09	0°♄	
	1871 Oct 01 06:55	30°♃			1874 Apr 27 14:33	23°♄01'35	
direct	1871 Oct 17 15:22	24°♃50'53			1874 May 03 06:57	0°♂	
greatest brilliancy	1871 Oct 31 22:13	28°♃31'35	-4.6m		1874 May 27 20:56	0°♄	
	1871 Nov 03 18:05	0°♁			1874 Jun 21 17:10	0°♂	
asc. node	1871 Nov 10 19:14	4°♁28'47			1874 Jul 16 22:08	0°♃	
morning max el	1871 Dec 07 05:29	27°♁55'06	46°50'31		1874 Aug 11 17:11	0°♁	
	1871 Dec 09 06:14	0°♃			1874 Aug 17 03:45	6°♁12'07	
	1872 Jan 05 13:47	0°♁			1874 Sep 07 14:07	0°♃	
	1872 Jan 31 03:12	0°♄			1874 Sep 29 15:06	22°♃50'39	46°39'23
	1872 Feb 25 01:01	0°♁			1874 Oct 07 03:25	0°♁	
desc. node	1872 Mar 01 08:50	6°♁27'48			1874 Nov 07 13:23	22°♁21'37	-4.6m
	1872 Mar 20 16:34	0°♁			1874 Nov 18 16:07	24°♁39'21	
	1872 Apr 14 05:50	0°♁			1874 Dec 02 23:42	20°♁35'44	
	1872 May 08 18:37	0°♄			1874 Dec 08 07:10	17°♁32'09	
	1872 Jun 02 07:09	0°♂			1874 Dec 09 04:40	16°♁59'33	0°14'00
morning set	1872 Jun 09 18:43	9°♂09'44			1874 Dec 09 04:07	17°♁00'22	0°13'50
asc. node	1872 Jun 22 12:15	24°♂45'53			1874 Dec 09 01:49	17°♁03'52	
	1872 Jun 26 18:41	0°♄			1874 Dec 09 06:26	16°♁56'53	
max. Earth dist.	1872 Jul 14 00:47	21°♄12'17	1.73474 AU		1874 Dec 09 04:39	16°♁59'35	0.26433 AU
					1874 Dec 15 08:25	13°♁24'58	
superior conj	1872 Jul 16 06:21	23°♄57'05	0°52'27		1874 Dec 29 13:58	9°♁21'36	
minimum elong	1872 Jul 15 21:51	23°♄30'57	0°52'07		1875 Jan 10 17:58	12°♁07'56	-4.7m
	1872 Jul 21 04:15	0°♂			1875 Feb 05 04:26	0°♄	
	1872 Aug 14 11:40	0°♃			1875 Feb 18 01:10	12°♄16'50	46°49'25
evening rise	1872 Aug 21 03:13	8°♃13'00			1875 Mar 06 22:29	0°♁	
	1872 Sep 07 17:47	0°♁			1875 Mar 29 20:36	25°♁38'27	
	1872 Oct 01 23:49	0°♃			1875 Apr 02 15:44	0°♁	
desc. node	1872 Oct 12 01:34	12°♃27'04			1875 Apr 28 08:58	0°♁	
	1872 Oct 26 06:46	0°♁			1875 May 23 15:27	0°♄	
	1872 Nov 19 15:40	0°♄			1875 Jun 17 15:39	0°♂	
	1872 Dec 14 04:54	0°♁			1875 Jul 12 10:30	0°♄	
	1873 Jan 08 04:46	0°♁			1875 Jul 21 00:05	10°♄25'58	
asc. node	1873 Feb 02 04:53	28°♁49'04			1875 Aug 05 23:41	0°♂	
	1873 Feb 03 06:23	0°♁			1875 Aug 17 12:36	14°♂12'00	
evening max el	1873 Feb 23 08:58	21°♁21'14	46°31'28		1875 Aug 30 07:18	0°♃	

max. Earth dist.	1875 Sep 20 01:59	25° \mathbb{M} 49'09	1.72266 AU	inferior conj	1878 Feb 21 05:35	2° \mathbb{K} 30'05	8°40'04
				minimum elong	1878 Feb 21 01:23	2° \mathbb{K} 36'40	8°39'49
superior conj	1875 Sep 23 07:45	29° \mathbb{M} 51'25	1°22'28	morning rise	1878 Feb 24 05:30	0° \mathbb{K} 38'53	
minimum elong	1875 Sep 23 12:15	0° \mathbb{A} 05'27	1°22'24		1878 Feb 25 07:37	30° \approx	
	1875 Sep 23 10:30	0° \mathbb{A}		direct	1878 Mar 13 22:37	24° \approx 38'40	
	1875 Oct 17 11:04	0° \mathbb{M}		greatest brilliancy	1878 Mar 24 13:23	26° \approx 43'59	-4.6m
evening rise	1875 Oct 31 22:17	18° \mathbb{M} 05'54			1878 Mar 31 11:51	0° \mathbb{K}	
desc. node	1875 Nov 09 13:31	28° \mathbb{M} 54'13		desc. node	1878 Apr 26 08:24	19° \mathbb{K} 58'16	
	1875 Nov 10 10:32	0° \mathbb{Z}		morning max el	1878 May 02 07:20	25° \mathbb{K} 37'26	46°06'48
	1875 Dec 04 09:59	0° \mathbb{Z}			1878 May 06 18:02	0° \mathbb{V}	
	1875 Dec 28 10:28	0° \approx			1878 Jun 04 02:18	0° \mathbb{B}	
	1876 Jan 21 14:07	0° \mathbb{K}			1878 Jun 30 15:04	0° \mathbb{I}	
	1876 Feb 15 00:58	0° \mathbb{V}			1878 Jul 26 06:50	0° \mathbb{S}	
asc. node	1876 Mar 01 16:43	18° \mathbb{V} 52'26		asc. node	1878 Aug 17 11:52	26° \mathbb{S} 33'47	
	1876 Mar 11 01:45	0° \mathbb{B}			1878 Aug 20 08:07	0° \mathbb{Q}	
	1876 Apr 06 04:41	0° \mathbb{I}			1878 Sep 13 21:54	0° \mathbb{M}	
	1876 May 04 17:55	0° \mathbb{S}			1878 Oct 08 03:06	0° \mathbb{A}	
evening max el	1876 May 05 06:07	0° \mathbb{S} 29'30	45°31'44	morning set	1878 Oct 26 20:22	23° \mathbb{A} 23'27	
greatest brilliancy	1876 Jun 08 16:23	26° \mathbb{S} 53'37	-4.5m		1878 Nov 01 02:53	0° \mathbb{M}	
	1876 Jun 18 04:47	0° \mathbb{Q}			1878 Nov 25 00:03	0° \mathbb{Z}	
desc. node	1876 Jun 21 06:09	0° \mathbb{Q} 22'04		max. Earth dist.	1878 Dec 05 05:41	12° \mathbb{Z} 52'33	1.71113 AU
retrograde	1876 Jun 22 22:44	0° \mathbb{Q} 25'21					
	1876 Jun 27 13:46	30° \mathbb{S}		superior conj	1878 Dec 05 18:19	13° \mathbb{Z} 32'18	0°03'08
evening set	1876 Jul 08 11:13	25° \mathbb{S} 47'37		minimum elong	1878 Dec 05 19:08	13° \mathbb{Z} 34'52	0°03'05
inferior conj	1876 Jul 14 09:50	22° \mathbb{S} 13'02	-5°-5'-39	behind sun begin	1878 Dec 04 17:20	12° \mathbb{Z} 13'43	
minimum elong	1876 Jul 14 00:30	22° \mathbb{S} 27'37	5°03'28	behind sun end	1878 Dec 06 20:56	14° \mathbb{Z} 56'01	
min. Earth dist.	1876 Jul 14 07:43	22° \mathbb{S} 16'20	0.29001 AU	desc. node	1878 Dec 07 01:22	15° \mathbb{Z} 09'57	
morning rise	1876 Jul 19 13:46	19° \mathbb{S} 04'54			1878 Dec 18 20:21	0° \mathbb{Z}	
direct	1876 Aug 05 02:10	13° \mathbb{S} 55'39			1879 Jan 11 16:58	0° \approx	
greatest brilliancy	1876 Aug 19 03:25	17° \mathbb{S} 23'12	-4.5m	evening rise	1879 Jan 16 05:35	5° \approx 40'57	
	1876 Sep 07 06:47	0° \mathbb{Q}			1879 Feb 04 15:12	0° \mathbb{K}	
morning max el	1876 Sep 23 10:30	14° \mathbb{Q} 36'56	46°07'36		1879 Feb 28 17:04	0° \mathbb{V}	
	1876 Oct 08 10:11	0° \mathbb{M}			1879 Mar 25 01:09	0° \mathbb{B}	
asc. node	1876 Oct 12 09:33	4° \mathbb{M} 17'24		asc. node	1879 Mar 30 04:44	6° \mathbb{B} 17'42	
	1876 Nov 04 03:21	0° \mathbb{A}			1879 Apr 18 18:28	0° \mathbb{I}	
	1876 Nov 29 07:38	0° \mathbb{M}			1879 May 14 01:11	0° \mathbb{S}	
	1876 Dec 23 19:31	0° \mathbb{Z}			1879 Jun 09 05:35	0° \mathbb{Q}	
	1877 Jan 17 00:25	0° \mathbb{Z}			1879 Jul 07 06:05	0° \mathbb{M}	
desc. node	1877 Jan 31 22:56	18° \mathbb{Z} 35'06		evening max el	1879 Jul 16 04:15	8° \mathbb{M} 46'45	45°33'34
	1877 Feb 10 02:57	0° \approx		desc. node	1879 Jul 19 17:59	12° \mathbb{M} 08'35	
	1877 Mar 06 05:25	0° \mathbb{K}			1879 Aug 10 19:38	0° \mathbb{A}	
morning set	1877 Mar 29 22:48	29° \mathbb{K} 27'49		greatest brilliancy	1879 Aug 22 17:34	6° \mathbb{A} 17'22	-4.5m
	1877 Mar 30 09:11	0° \mathbb{V}		retrograde	1879 Sep 02 22:11	8° \mathbb{A} 31'50	
	1877 Apr 23 15:04	0° \mathbb{B}		evening set	1879 Sep 20 20:36	2° \mathbb{A} 34'57	
				inferior conj	1879 Sep 24 01:39	0° \mathbb{A} 37'56	-8°-30'-42
superior conj	1877 May 07 01:30	16° \mathbb{B} 34'13	0°-41'-12	minimum elong	1879 Sep 24 06:33	0° \mathbb{A} 30'23	8°30'23
minimum elong	1877 May 07 09:33	16° \mathbb{B} 59'01	0°40'53	min. Earth dist.	1879 Sep 24 21:54	0° \mathbb{A} 06'42	0.28046 AU
max. Earth dist.	1877 May 09 05:07	19° \mathbb{B} 13'14	1.73234 AU		1879 Sep 25 02:16	30° \mathbb{M}	
	1877 May 17 23:13	0° \mathbb{I}		morning rise	1879 Sep 27 16:11	28° \mathbb{M} 26'01	
asc. node	1877 May 25 02:30	8° \mathbb{I} 46'36		direct	1879 Oct 15 05:59	22° \mathbb{M} 32'57	
	1877 Jun 11 09:11	0° \mathbb{S}		greatest brilliancy	1879 Oct 29 15:16	26° \mathbb{M} 15'59	-4.6m
evening rise	1877 Jun 13 02:00	2° \mathbb{S} 05'14			1879 Nov 05 05:16	0° \mathbb{A}	
	1877 Jul 05 20:30	0° \mathbb{Q}		asc. node	1879 Nov 09 21:21	3° \mathbb{A} 13'07	
	1877 Jul 30 09:25	0° \mathbb{M}		morning max el	1879 Dec 04 19:49	25° \mathbb{A} 33'24	46°49'32
	1877 Aug 24 01:12	0° \mathbb{A}			1879 Dec 09 03:10	0° \mathbb{M}	
desc. node	1877 Sep 13 15:39	24° \mathbb{A} 53'15			1880 Jan 05 05:29	0° \mathbb{Z}	
	1877 Sep 17 21:44	0° \mathbb{M}			1880 Jan 30 16:48	0° \mathbb{Z}	
	1877 Oct 13 01:42	0° \mathbb{Z}			1880 Feb 24 13:30	0° \approx	
	1877 Nov 07 19:06	0° \mathbb{Z}		desc. node	1880 Feb 29 10:43	5° \approx 56'08	
	1877 Dec 04 20:49	0° \approx			1880 Mar 20 04:19	0° \mathbb{K}	
evening max el	1877 Dec 11 11:00	6° \approx 50'55	47°19'04		1880 Apr 13 17:05	0° \mathbb{V}	
asc. node	1878 Jan 04 19:07	28° \approx 57'40			1880 May 08 05:30	0° \mathbb{B}	
	1878 Jan 06 04:30	0° \mathbb{K}			1880 Jun 01 17:47	0° \mathbb{I}	
greatest brilliancy	1878 Jan 18 10:36	7° \mathbb{K} 26'03	-4.7m	morning set	1880 Jun 07 12:50	7° \mathbb{I} 05'49	
retrograde	1878 Jan 31 09:34	10° \mathbb{K} 33'36		asc. node	1880 Jun 21 14:18	24° \mathbb{I} 19'56	
evening set	1878 Feb 17 21:31	4° \mathbb{K} 34'19			1880 Jun 26 05:10	0° \mathbb{S}	
min. Earth dist.	1878 Feb 20 10:37	2° \mathbb{K} 59'49	0.27488 AU	max. Earth dist.	1880 Jul 11 22:46	19° \mathbb{S} 20'03	1.73500 AU

superior conj	1880 Jul 14 01:01	21°☿54'35	0°49'58	direct	1882 Dec 27 02:58	6°♁52'46	
minimum elong	1880 Jul 13 16:42	21°☿29'00	0°49'39	greatest brilliancy	1883 Jan 08 07:37	9°♁40'18	-4.7m
	1880 Jul 20 14:44	0°♁			1883 Feb 05 09:49	0°♁	
	1880 Aug 13 22:16	0°♁		morning max el	1883 Feb 15 15:05	9°♁53'22	46°50'21
evening rise	1880 Aug 18 21:18	6°♁07'41			1883 Mar 06 16:33	0°♁	
	1880 Sep 07 04:36	0°♁		desc. node	1883 Mar 28 22:47	25°♁01'50	
	1880 Oct 01 10:55	0°♁			1883 Apr 02 06:21	0°♁	
desc. node	1880 Oct 11 03:40	11°♁58'51			1883 Apr 27 21:55	0°♁	
	1880 Oct 25 18:16	0°♁			1883 May 23 03:25	0°♁	
	1880 Nov 19 03:40	0°♁			1883 Jun 17 03:00	0°♁	
	1880 Dec 13 17:40	0°♁			1883 Jul 11 21:28	0°♁	
	1881 Jan 07 18:51	0°♁		asc. node	1883 Jul 20 02:05	9°♁58'53	
asc. node	1881 Feb 01 06:50	28°♁08'05			1883 Aug 05 10:27	0°♁	
	1881 Feb 02 23:16	0°♁		morning set	1883 Aug 15 06:13	12°♁05'24	
evening max el	1881 Feb 20 23:50	19°♁04'14	46°34'01		1883 Aug 29 17:59	0°♁	
	1881 Mar 04 09:54	0°♁		max. Earth dist.	1883 Sep 17 15:58	23°♁29'54	1.72318 AU
greatest brilliancy	1881 Mar 28 14:24	17°♁33'15	-4.6m				
retrograde	1881 Apr 12 02:07	21°♁20'00		superior conj	1883 Sep 21 00:08	27°♁39'31	1°23'11
evening set	1881 Apr 28 03:33	16°♁18'08		minimum elong	1883 Sep 21 03:55	27°♁51'18	1°23'09
inferior conj	1881 May 03 10:04	13°♁04'46	4°36'59		1883 Sep 22 21:14	0°♁	
minimum elong	1881 May 03 18:48	12°♁51'00	4°34'47		1883 Oct 16 21:55	0°♁	
min. Earth dist.	1881 May 03 11:01	13°♁03'15	0.28646 AU	evening rise	1883 Oct 29 11:14	15°♁41'53	
morning rise	1881 May 09 10:17	9°♁26'27		desc. node	1883 Nov 08 15:39	28°♁26'21	
desc. node	1881 May 23 20:10	4°♁53'05			1883 Nov 09 21:36	0°♁	
direct	1881 May 24 18:10	4°♁52'05			1883 Dec 03 21:16	0°♁	
greatest brilliancy	1881 Jun 06 09:21	7°♁40'59	-4.5m		1883 Dec 27 22:00	0°♁	
	1881 Jul 07 14:17	0°♁			1884 Jan 21 01:57	0°♁	
morning max el	1881 Jul 12 12:33	4°♁35'59	45°43'35		1884 Feb 14 13:19	0°♁	
	1881 Aug 06 08:38	0°♁		asc. node	1884 Feb 29 18:49	18°♁20'09	
	1881 Sep 02 04:02	0°♁			1884 Mar 10 15:08	0°♁	
asc. node	1881 Sep 13 23:48	13°♁46'49			1884 Apr 05 20:19	0°♁	
	1881 Sep 27 15:10	0°♁		evening max el	1884 May 02 22:19	28°♁19'15	45°32'58
	1881 Oct 22 07:20	0°♁			1884 May 04 16:16	0°♁	
	1881 Nov 15 12:22	0°♁		greatest brilliancy	1884 Jun 06 08:32	24°♁44'44	-4.5m
	1881 Dec 09 11:42	0°♁		retrograde	1884 Jun 20 14:36	28°♁16'30	
	1882 Jan 02 08:52	0°♁		desc. node	1884 Jun 20 08:10	28°♁16'25	
desc. node	1882 Jan 03 13:07	1°♁28'46		evening set	1884 Jul 06 01:41	23°♁41'41	
morning set	1882 Jan 10 11:41	10°♁12'05		inferior conj	1884 Jul 12 02:11	20°♁04'14	-4°-49'-29
	1882 Jan 26 05:52	0°♁		minimum elong	1884 Jul 11 17:08	20°♁18'24	4°47'18
	1882 Feb 19 04:04	0°♁		min. Earth dist.	1884 Jul 12 00:01	20°♁07'37	0.28998 AU
				morning rise	1884 Jul 17 08:34	16°♁52'13	
superior conj	1882 Feb 21 00:33	2°♁19'11	-1°-23'-58	direct	1884 Aug 02 18:34	11°♁47'01	
minimum elong	1882 Feb 20 19:26	2°♁03'12	1°23'57	greatest brilliancy	1884 Aug 16 17:21	15°♁11'14	-4.5m
max. Earth dist.	1882 Feb 24 17:29	6°♁57'20	1.71695 AU		1884 Sep 07 13:27	0°♁	
	1882 Mar 15 04:42	0°♁		morning max el	1884 Sep 21 00:59	12°♁21'40	46°06'11
evening rise	1882 Apr 01 23:27	22°♁05'08			1884 Oct 08 03:39	0°♁	
	1882 Apr 08 08:59	0°♁		asc. node	1884 Oct 11 11:42	3°♁37'21	
asc. node	1882 Apr 26 16:43	22°♁34'49			1884 Nov 03 17:32	0°♁	
	1882 May 02 17:52	0°♁			1884 Nov 28 20:29	0°♁	
	1882 May 27 08:04	0°♁			1884 Dec 23 07:42	0°♁	
	1882 Jun 21 04:46	0°♁			1885 Jan 16 12:12	0°♁	
	1882 Jul 16 10:37	0°♁		desc. node	1885 Jan 31 00:58	18°♁05'21	
	1882 Aug 11 07:17	0°♁			1885 Feb 09 14:27	0°♁	
desc. node	1882 Aug 16 05:43	5°♁36'23			1885 Mar 05 16:40	0°♁	
	1882 Sep 07 07:39	0°♁		morning set	1885 Mar 27 12:33	27°♁07'23	
evening max el	1882 Sep 27 05:35	20°♁31'20	46°36'51		1885 Mar 29 20:14	0°♁	
	1882 Oct 07 07:38	0°♁			1885 Apr 23 01:59	0°♁	
greatest brilliancy	1882 Nov 05 02:00	19°♁53'45	-4.6m				
retrograde	1882 Nov 16 04:37	22°♁10'29		superior conj	1885 May 04 17:35	14°♁22'21	0°-44'-8
evening set	1882 Nov 30 12:37	18°♁06'05		minimum elong	1885 May 05 02:03	14°♁48'28	0°43'48
inferior conj	1882 Dec 06 16:41	14°♁30'51	0°-10'-45	max. Earth dist.	1885 May 07 01:24	17°♁14'21	1.73193 AU
minimum elong	1882 Dec 06 17:06	14°♁30'13	0°10'37		1885 May 17 10:05	0°♁	
transit begin	1882 Dec 06 13:57	14°♁35'01		asc. node	1885 May 24 04:29	8°♁19'23	
transit end	1882 Dec 06 20:15	14°♁25'26		evening rise	1885 Jun 10 20:09	0°♁00'11	
min. Earth dist.	1882 Dec 06 17:55	14°♁28'59	0.26447 AU		1885 Jun 10 20:06	0°♁	
asc. node	1882 Dec 07 09:12	14°♁05'48			1885 Jul 05 07:33	0°♁	
morning rise	1882 Dec 12 21:29	10°♁55'02			1885 Jul 29 20:45	0°♁	

	1885 Aug 23 13:00	0°♁			1887 Dec 08 23:46	0°♁		
desc. node	1885 Sep 12 17:50	24°♁22'33			1888 Jan 04 21:12	0°♁		
	1885 Sep 17 10:16	0°♁			1888 Jan 30 06:32	0°♁		
	1885 Oct 12 15:26	0°♁			1888 Feb 24 02:11	0°♁		
	1885 Nov 07 10:57	0°♁		desc. node	1888 Feb 28 12:56	5°♁24'41		
	1885 Dec 04 17:40	0°♁			1888 Mar 19 16:21	0°♁		
evening max el	1885 Dec 09 00:33	4°♁25'24	47°18'55		1888 Apr 13 04:42	0°♁		
asc. node	1886 Jan 03 21:04	27°♁39'53			1888 May 07 16:48	0°♁		
	1886 Jan 07 04:53	0°♁			1888 Jun 01 04:51	0°♁		
greatest brilliancy	1886 Jan 16 03:18	5°♁04'38	-4.7m	morning set	1888 Jun 05 06:31	4°♁59'05		
retrograde	1886 Jan 28 23:12	8°♁09'14		asc. node	1888 Jun 20 16:17	23°♁52'26		
evening set	1886 Feb 15 08:31	2°♁15'14			1888 Jun 25 16:07	0°♁		
min. Earth dist.	1886 Feb 18 00:20	0°♁36'44	0.27433 AU	max. Earth dist.	1888 Jul 09 21:28	17°♁28'36	1.73519 AU	
inferior conj	1886 Feb 18 19:25	0°♁06'51	8°35'24					
minimum elong	1886 Feb 18 14:23	0°♁14'43	8°35'02	superior conj	1888 Jul 11 19:13	19°♁49'19	0°47'23	
	1886 Feb 18 23:47	30°♁		minimum elong	1888 Jul 11 11:08	19°♁24'26	0°47'03	
morning rise	1886 Feb 21 20:29	28°♁13'50			1888 Jul 20 01:39	0°♁		
direct	1886 Mar 11 11:19	22°♁16'14			1888 Aug 13 09:18	0°♁		
greatest brilliancy	1886 Mar 22 02:54	24°♁21'50	-4.6m	evening rise	1888 Aug 16 15:10	4°♁00'30		
	1886 Apr 01 23:48	0°♁			1888 Sep 06 15:51	0°♁		
desc. node	1886 Apr 25 10:29	19°♁03'02			1888 Sep 30 22:28	0°♁		
morning max el	1886 Apr 29 20:14	23°♁15'42	46°08'17	desc. node	1888 Oct 10 05:44	11°♁29'08		
	1886 May 06 15:15	0°♁			1888 Oct 25 06:11	0°♁		
	1886 Jun 03 17:55	0°♁			1888 Nov 18 16:05	0°♁		
	1886 Jun 30 04:27	0°♁			1888 Dec 13 06:49	0°♁		
	1886 Jul 25 19:05	0°♁			1889 Jan 07 09:20	0°♁		
asc. node	1886 Aug 16 13:57	26°♁04'50		asc. node	1889 Jan 31 08:58	27°♁26'32		
	1886 Aug 19 19:44	0°♁			1889 Feb 02 16:44	0°♁		
	1886 Sep 13 09:11	0°♁		evening max el	1889 Feb 18 15:29	16°♁48'28	46°36'28	
	1886 Oct 07 14:13	0°♁			1889 Mar 04 14:15	0°♁		
morning set	1886 Oct 24 10:28	21°♁02'35		greatest brilliancy	1889 Mar 26 06:33	15°♁20'32	-4.6m	
	1886 Oct 31 13:58	0°♁		retrograde	1889 Apr 09 19:01	19°♁07'49		
	1886 Nov 24 11:08	0°♁		evening set	1889 Apr 25 22:12	14°♁02'01		
max. Earth dist.	1886 Dec 02 12:43	10°♁08'50	1.71132 AU	inferior conj	1889 May 01 02:05	10°♁52'21	4°54'08	
				minimum elong	1889 May 01 11:09	10°♁38'05	4°51'54	
superior conj	1886 Dec 03 05:16	11°♁00'54	0°07'01	min. Earth dist.	1889 May 01 02:34	10°♁51'36	0.28628 AU	
minimum elong	1886 Dec 03 07:06	11°♁06'40	0°06'55	morning rise	1889 May 07 00:25	7°♁17'01		
behind sun begin	1886 Dec 02 07:13	9°♁51'31		direct	1889 May 22 10:08	2°♁40'01		
behind sun end	1886 Dec 04 07:00	12°♁21'48		desc. node	1889 May 22 22:12	2°♁40'18		
desc. node	1886 Dec 06 03:22	14°♁41'21		greatest brilliancy	1889 Jun 03 23:26	5°♁27'41	-4.5m	
	1886 Dec 18 07:29	0°♁			1889 Jul 07 14:46	0°♁		
	1887 Jan 11 04:09	0°♁		morning max el	1889 Jul 10 05:33	2°♁27'58	45°43'32	
evening rise	1887 Jan 13 15:55	3°♁07'35			1889 Aug 06 00:59	0°♁		
	1887 Feb 04 02:29	0°♁			1889 Sep 01 17:44	0°♁		
	1887 Feb 28 04:30	0°♁		asc. node	1889 Sep 13 01:57	13°♁14'41		
	1887 Mar 24 12:51	0°♁			1889 Sep 27 03:41	0°♁		
asc. node	1887 Mar 29 06:50	5°♁48'12			1889 Oct 21 19:15	0°♁		
	1887 Apr 18 06:39	0°♁			1889 Nov 14 23:59	0°♁		
	1887 May 13 14:21	0°♁			1889 Dec 08 23:08	0°♁		
	1887 Jun 08 20:45	0°♁			1890 Jan 01 20:10	0°♁		
	1887 Jul 07 02:28	0°♁		desc. node	1890 Jan 02 15:09	0°♁59'39		
evening max el	1887 Jul 13 18:03	6°♁29'44	45°32'21	morning set	1890 Jan 07 21:33	7°♁36'49		
desc. node	1887 Jul 18 19:59	11°♁14'53			1890 Jan 25 17:05	0°♁		
	1887 Aug 12 02:01	0°♁						
greatest brilliancy	1887 Aug 20 04:07	3°♁56'52	-4.5m	superior conj	1890 Feb 18 11:57	29°♁49'51	-1°-23'-3	
retrograde	1887 Aug 31 12:21	6°♁14'50		minimum elong	1890 Feb 18 05:54	29°♁30'53	1°22'59	
evening set	1887 Sep 18 11:53	0°♁15'20			1890 Feb 18 15:12	0°♁		
	1887 Sep 18 22:11	30°♁		max. Earth dist.	1890 Feb 22 05:19	4°♁29'31	1.71646 AU	
inferior conj	1887 Sep 21 15:59	28°♁19'48	-8°-34'-55		1890 Mar 14 15:46	0°♁		
minimum elong	1887 Sep 21 20:06	28°♁13'29	8°34'42	evening rise	1890 Mar 30 13:14	19°♁44'56		
min. Earth dist.	1887 Sep 22 11:39	27°♁49'33	0.28109 AU		1890 Apr 07 20:03	0°♁		
morning rise	1887 Sep 25 04:02	26°♁11'45		asc. node	1890 Apr 25 18:41	22°♁06'37		
direct	1887 Oct 12 20:58	20°♁13'43			1890 May 02 05:03	0°♁		
greatest brilliancy	1887 Oct 27 08:08	23°♁59'11	-4.6m		1890 May 26 19:33	0°♁		
	1887 Nov 06 06:49	0°♁			1890 Jun 20 16:48	0°♁		
asc. node	1887 Nov 08 23:20	1°♁58'19			1890 Jul 15 23:35	0°♁		
morning max el	1887 Dec 02 10:59	23°♁13'06	46°48'45		1890 Aug 10 21:58	0°♁		

desc. node	1890 Aug 15 07:55	4°♁59'50		1893 Mar 29 07:16	0°♃	
	1890 Sep 07 02:00	0°♁		1893 Apr 22 12:52	0°♃	
evening max el	1890 Sep 24 19:55	18°♁10'40	46°34'21			
	1890 Oct 07 14:16	0°♁				
greatest brilliancy	1890 Nov 02 15:23	17°♁26'05	-4.6m	superior conj	1893 May 02 09:53	12°♁11'17 0°-47'00
retrograde	1890 Nov 13 16:39	19°♁40'46		minimum elong	1893 May 02 18:44	12°♁38'35 0°46'38
evening set	1890 Nov 28 01:49	15°♁35'33		max. Earth dist.	1893 May 04 20:10	15°♁10'55 1.73148 AU
inferior conj	1890 Dec 04 04:45	12°♁01'32	0°-35'-25	asc. node	1893 May 16 20:53	0°♁
minimum elong	1890 Dec 04 06:06	11°♁59'28	0°35'00	evening rise	1893 May 23 06:32	7°♁52'33
min. Earth dist.	1890 Dec 04 07:27	11°♁57'25	0.26461 AU		1893 Jun 08 14:35	27°♁56'16
asc. node	1890 Dec 06 11:14	10°♁39'13			1893 Jun 10 06:55	0°♁
morning rise	1890 Dec 10 10:18	8°♁24'29			1893 Jul 04 18:30	0°♁
direct	1890 Dec 24 15:46	4°♁23'17			1893 Jul 29 08:01	0°♁
greatest brilliancy	1891 Jan 05 21:26	7°♁11'55	-4.7m	desc. node	1893 Aug 23 00:49	0°♁
	1891 Feb 05 13:41	0°♁			1893 Sep 11 19:50	23°♁51'09
morning max el	1891 Feb 13 04:13	7°♁27'07	46°51'22		1893 Sep 16 22:55	0°♁
	1891 Mar 06 10:25	0°♁			1893 Oct 12 05:21	0°♁
desc. node	1891 Mar 28 00:49	24°♁24'37			1893 Nov 07 03:08	0°♁
	1891 Apr 01 20:56	0°♁		evening max el	1893 Dec 04 15:17	0°♁
	1891 Apr 27 10:53	0°♁		asc. node	1893 Dec 06 13:43	1°♁58'54 47°18'54
	1891 May 22 15:27	0°♁			1894 Jan 02 23:12	26°♁20'06
	1891 Jun 16 14:29	0°♁			1894 Jan 08 14:54	0°♁
	1891 Jul 11 08:38	0°♁		greatest brilliancy	1894 Jan 13 19:01	2°♁41'56 -4.7m
asc. node	1891 Jul 19 04:12	9°♁31'29		retrograde	1894 Jan 26 12:53	5°♁45'04
	1891 Aug 04 21:27	0°♁			1894 Feb 12 16:46	30°♁
morning set	1891 Aug 12 23:39	9°♁57'26		evening set	1894 Feb 12 19:12	29°♁56'21
	1891 Aug 29 04:57	0°♁		min. Earth dist.	1894 Feb 15 13:58	28°♁13'43 0.27376 AU
max. Earth dist.	1891 Sep 15 04:47	21°♁06'22	1.72370 AU	inferior conj	1894 Feb 16 09:12	27°♁43'38 8°29'51
				minimum elong	1894 Feb 16 03:23	27°♁52'43 8°29'20
superior conj	1891 Sep 18 16:24	25°♁26'33	1°23'47	morning rise	1894 Feb 19 11:47	25°♁48'28
minimum elong	1891 Sep 18 19:28	25°♁36'04	1°23'46	direct	1894 Mar 08 23:55	19°♁53'40
	1891 Sep 22 08:13	0°♁		greatest brilliancy	1894 Mar 19 16:57	22°♁00'31 -4.6m
	1891 Oct 16 09:00	0°♁			1894 Apr 03 01:10	0°♁
evening rise	1891 Oct 27 00:01	13°♁16'54		desc. node	1894 Apr 24 12:27	18°♁09'08
desc. node	1891 Nov 07 17:35	27°♁57'14		morning max el	1894 Apr 27 09:52	20°♁56'05 46°09'55
	1891 Nov 09 08:51	0°♁			1894 May 06 11:34	0°♁
	1891 Dec 03 08:44	0°♁			1894 Jun 03 09:05	0°♁
	1891 Dec 27 09:42	0°♁			1894 Jun 29 17:31	0°♁
	1892 Jan 20 13:58	0°♁			1894 Jul 25 07:03	0°♁
	1892 Feb 14 01:51	0°♁		asc. node	1894 Aug 15 16:06	25°♁36'52
asc. node	1892 Feb 28 20:56	17°♁47'26			1894 Aug 19 07:06	0°♁
	1892 Mar 10 04:42	0°♁			1894 Sep 12 20:14	0°♁
	1892 Apr 05 12:14	0°♁		morning set	1894 Oct 07 01:10	0°♁
evening max el	1892 Apr 30 13:43	26°♁07'00	45°34'15		1894 Oct 22 00:36	18°♁42'16
	1892 May 04 15:31	0°♁			1894 Oct 31 00:55	0°♁
greatest brilliancy	1892 Jun 04 00:03	22°♁35'14	-4.5m	max. Earth dist.	1894 Nov 23 22:08	0°♁
retrograde	1892 Jun 18 06:22	26°♁08'12			1894 Nov 29 21:01	7°♁29'21 1.71154 AU
desc. node	1892 Jun 19 10:10	26°♁06'38		superior conj	1894 Nov 30 15:55	8°♁28'47 0°10'55
evening set	1892 Jul 03 16:25	21°♁35'43		minimum elong	1894 Nov 30 18:45	8°♁37'42 0°10'47
inferior conj	1892 Jul 09 18:42	17°♁55'47	-4°-32'-59	behind sun begin	1894 Nov 29 22:59	7°♁35'29
minimum elong	1892 Jul 09 09:58	18°♁09'28	4°30'49	behind sun end	1894 Dec 01 14:32	9°♁39'55
min. Earth dist.	1892 Jul 09 16:42	17°♁58'56	0.29001 AU	desc. node	1894 Dec 05 05:28	14°♁13'20
morning rise	1892 Jul 15 03:27	14°♁40'03			1894 Dec 17 18:31	0°♁
direct	1892 Jul 31 10:44	9°♁38'30			1895 Jan 10 15:13	0°♁
greatest brilliancy	1892 Aug 14 08:37	13°♁00'49	-4.5m	evening rise	1895 Jan 11 01:52	0°♁33'26
	1892 Sep 07 18:12	0°♁			1895 Feb 03 13:37	0°♁
morning max el	1892 Sep 18 15:21	10°♁05'43	46°04'42		1895 Feb 27 15:46	0°♁
	1892 Oct 07 20:57	0°♁			1895 Mar 24 00:22	0°♁
asc. node	1892 Oct 10 13:39	2°♁56'39		asc. node	1895 Mar 28 08:49	5°♁18'53
	1892 Nov 03 07:45	0°♁			1895 Apr 17 18:40	0°♁
	1892 Nov 28 09:22	0°♁			1895 May 13 03:19	0°♁
	1892 Dec 22 19:54	0°♁			1895 Jun 08 11:47	0°♁
	1893 Jan 16 00:00	0°♁			1895 Jul 06 23:03	0°♁
desc. node	1893 Jan 30 03:06	17°♁35'55		evening max el	1895 Jul 11 09:00	4°♁16'53 45°31'18
	1893 Feb 09 01:56	0°♁		desc. node	1895 Jul 17 22:10	10°♁21'53
	1893 Mar 05 03:54	0°♁			1895 Aug 13 20:53	0°♁
morning set	1893 Mar 25 02:16	24°♁46'40		greatest brilliancy	1895 Aug 17 14:23	1°♁38'06 -4.5m

retrograde	1895 Aug 29 03:05	3°♁59'59		minimum elong	1898 Feb 15 15:54	26°♁57'52	1°21'50
	1895 Sep 12 12:42	30°♎			1898 Feb 18 02:04	0°♁	
evening set	1895 Sep 16 03:08	27°♎58'29		max. Earth dist.	1898 Feb 19 17:03	2°♁02'01	1.71600 AU
inferior conj	1895 Sep 19 06:39	26°♎03'47	-8°-38'-13		1898 Mar 14 02:35	0°♎	
minimum elong	1895 Sep 19 09:58	25°♎58'42	8°38'05	evening rise	1898 Mar 28 02:18	17°♎23'08	
min. Earth dist.	1895 Sep 20 01:12	25°♎35'15	0.28174 AU		1898 Apr 07 06:52	0°♁	
morning rise	1895 Sep 22 16:33	23°♎59'03		asc. node	1898 Apr 24 20:45	21°♁39'30	
direct	1895 Oct 10 12:46	17°♎56'52			1898 May 01 15:58	0°♁	
greatest brilliancy	1895 Oct 25 00:36	21°♎43'40	-4.6m		1898 May 26 06:45	0°♁	
	1895 Nov 07 00:57	0°♁			1898 Jun 20 04:31	0°♁	
asc. node	1895 Nov 08 01:25	0°♁47'08			1898 Jul 15 12:15	0°♎	
morning max el	1895 Nov 30 02:45	20°♁55'21	46°47'31		1898 Aug 10 12:24	0°♁	
	1895 Dec 08 19:27	0°♎		desc. node	1898 Aug 14 09:54	4°♁23'39	
	1896 Jan 04 12:31	0°♁			1898 Sep 06 20:18	0°♎	
	1896 Jan 29 20:01	0°♁		evening max el	1898 Sep 22 09:38	15°♎50'06	46°31'55
	1896 Feb 23 14:38	0°♁			1898 Oct 07 22:31	0°♁	
desc. node	1896 Feb 27 14:59	4°♁53'26		greatest brilliancy	1898 Oct 31 05:40	15°♁01'42	-4.6m
	1896 Mar 19 04:09	0°♁		retrograde	1898 Nov 11 04:23	17°♁13'41	
	1896 Apr 12 16:02	0°♎		evening set	1898 Nov 25 15:30	13°♁07'19	
	1896 May 07 03:47	0°♁		inferior conj	1898 Dec 01 17:09	9°♁34'54	0°-59'-47
	1896 May 31 15:36	0°♁		minimum elong	1898 Dec 01 19:27	9°♁31'25	0°59'03
morning set	1896 Jun 03 00:21	2°♁53'49		min. Earth dist.	1898 Dec 01 21:33	9°♁28'13	0.26480 AU
asc. node	1896 Jun 19 18:27	23°♁26'27		asc. node	1898 Dec 05 13:19	7°♁17'00	
	1896 Jun 25 02:44	0°♁		morning rise	1898 Dec 07 23:11	5°♁56'47	
max. Earth dist.	1896 Jul 07 20:29	15°♁39'10	1.73533 AU	direct	1898 Dec 22 04:26	1°♁56'19	
				greatest brilliancy	1899 Jan 03 12:15	4°♁46'47	-4.7m
superior conj	1896 Jul 09 13:44	17°♁46'00	0°44'46		1899 Feb 05 15:24	0°♁	
minimum elong	1896 Jul 09 05:54	17°♁21'55	0°44'25	morning max el	1899 Feb 10 16:29	4°♁59'49	46°52'04
	1896 Jul 19 12:15	0°♁			1899 Mar 06 03:31	0°♁	
	1896 Aug 12 19:59	0°♎		desc. node	1899 Mar 27 02:47	23°♁48'19	
evening rise	1896 Aug 14 09:31	1°♎55'55			1899 Apr 01 11:05	0°♁	
	1896 Sep 06 02:42	0°♁			1899 Apr 26 23:33	0°♎	
	1896 Sep 30 09:37	0°♎			1899 May 22 03:14	0°♁	
desc. node	1896 Oct 09 07:45	11°♎00'28			1899 Jun 16 01:42	0°♁	
	1896 Oct 24 17:45	0°♁			1899 Jul 10 19:30	0°♁	
	1896 Nov 18 04:14	0°♁		asc. node	1899 Jul 18 06:16	9°♁04'57	
	1896 Dec 12 19:49	0°♁			1899 Aug 04 08:07	0°♁	
	1897 Jan 06 23:47	0°♁		morning set	1899 Aug 10 17:00	7°♁50'15	
asc. node	1897 Jan 30 11:04	26°♁44'50			1899 Aug 28 15:34	0°♎	
	1897 Feb 02 10:27	0°♎		max. Earth dist.	1899 Sep 12 19:30	18°♎49'43	1.72424 AU
evening max el	1897 Feb 16 07:39	14°♎34'14	46°38'53				
	1897 Mar 04 20:26	0°♁		superior conj	1899 Sep 16 08:52	23°♎15'16	1°24'15
greatest brilliancy	1897 Mar 23 23:54	13°♁09'41	-4.6m	minimum elong	1899 Sep 16 11:11	23°♎22'29	1°24'14
retrograde	1897 Apr 07 11:41	16°♁55'39			1899 Sep 21 18:53	0°♁	
evening set	1897 Apr 23 16:50	11°♁46'11			1899 Oct 15 19:47	0°♎	
inferior conj	1897 Apr 28 17:59	8°♁40'14	5°11'00	evening rise	1899 Oct 24 13:15	10°♎54'21	
minimum elong	1897 Apr 29 03:19	8°♁25'31	5°08'45	desc. node	1899 Nov 06 19:42	27°♎29'42	
min. Earth dist.	1897 Apr 28 17:54	8°♁40'22	0.28602 AU		1899 Nov 08 19:47	0°♁	
morning rise	1897 May 04 14:10	5°♁08'01			1899 Dec 02 19:51	0°♁	
direct	1897 May 20 02:09	0°♁28'30			1899 Dec 26 21:03	0°♁	
desc. node	1897 May 22 00:18	0°♁32'49			1900 Jan 20 01:39	0°♁	
greatest brilliancy	1897 Jun 01 12:20	3°♁13'36	-4.5m		1900 Feb 13 14:08	0°♎	
	1897 Jul 07 13:43	0°♁		asc. node	1900 Feb 27 22:52	17°♎14'52	
morning max el	1897 Jul 07 21:53	0°♁19'27	45°43'36		1900 Mar 10 18:08	0°♁	
	1897 Aug 05 16:38	0°♁			1900 Apr 06 04:15	0°♁	
	1897 Sep 01 06:54	0°♁		evening max el	1900 Apr 29 04:22	23°♁53'11	45°35'35
asc. node	1897 Sep 12 03:52	12°♁43'15			1900 May 05 15:46	0°♁	
	1897 Sep 26 15:43	0°♎		greatest brilliancy	1900 Jun 02 14:49	20°♁24'48	-4.5m
	1897 Oct 21 06:43	0°♁		retrograde	1900 Jun 16 22:20	24°♁00'03	
	1897 Nov 14 11:08	0°♎		desc. node	1900 Jun 19 12:19	23°♁52'13	
	1897 Dec 08 10:09	0°♁		evening set	1900 Jul 02 07:07	19°♁29'23	
	1898 Jan 01 07:07	0°♁		inferior conj	1900 Jul 08 11:05	15°♁47'26	-4°-15'-58
desc. node	1898 Jan 01 17:19	0°♁32'02		minimum elong	1900 Jul 08 02:43	16°♁00'31	4°13'51
morning set	1898 Jan 05 07:26	5°♁02'41		min. Earth dist.	1900 Jul 08 09:18	15°♁50'13	0.29001 AU
	1898 Jan 25 04:00	0°♁		morning rise	1900 Jul 13 22:10	12°♁28'15	
				direct	1900 Jul 30 02:30	7°♁29'59	
superior conj	1898 Feb 15 22:53	27°♁19'43	-1°-21'-56	greatest brilliancy	1900 Aug 13 00:43	10°♁51'57	-4.5m