

superior conj	1799 Mar 21 14:41	0°♃59'52	-1°-17'-17	max. Earth dist.	1800 Feb 25 18:03	0°♃55'33	1.38027 AU
minimum elong	1799 Mar 21 18:26	1°♃18'39	1°16'43				
evening rise	1799 Mar 29 16:53	17°♃28'01		superior conj	1800 Mar 04 19:40	14°♃02'44	-1°-40'-55
asc. node	1799 Mar 29 19:00	17°♃38'46		minimum elong	1800 Mar 04 23:55	14°♃23'04	1°40'29
	1799 Apr 05 03:10	0°♃			1800 Mar 12 23:16	0°♃	
evening max el	1799 Apr 16 09:27	16°♃08'58	19°58'28	evening rise	1800 Mar 13 16:09	1°♃23'19	
retrograde	1799 Apr 26 14:30	21°♃04'44		asc. node	1800 Mar 16 16:01	7°♃13'53	
evening set	1799 Apr 28 15:15	20°♃53'54		evening max el	1800 Mar 30 05:20	28°♃08'16	19°01'45
desc. node	1799 May 07 05:10	17°♃06'04			1800 Apr 01 10:05	0°♃	
inferior conj	1799 May 07 13:06	16°♃54'05	0°-5'-44	retrograde	1800 Apr 07 19:41	2°♃18'23	
minimum elong	1799 May 07 12:50	16°♃54'29	0°05'40	evening set	1800 Apr 09 23:35	2°♃03'40	
transit begin	1799 May 07 09:07	17°♃00'07			1800 Apr 14 19:27	30°♃	
transit end	1799 May 07 16:34	16°♃48'50		inferior conj	1800 Apr 18 03:02	27°♃49'08	1°38'46
min. Earth dist.	1799 May 09 13:42	15°♃40'40	0.55406 AU	minimum elong	1800 Apr 18 06:32	27°♃43'01	1°37'40
morning rise	1799 May 16 07:32	12°♃29'00		min. Earth dist.	1800 Apr 21 05:13	25°♃40'45	0.56765 AU
direct	1799 May 20 10:35	11°♃51'34		desc. node	1800 Apr 24 02:12	23°♃55'13	
morning max el	1799 Jun 03 05:18	18°♃41'09	24°06'04	morning rise	1800 Apr 26 09:18	22°♃49'59	
	1799 Jun 12 14:29	0°♃		direct	1800 May 01 13:17	21°♃47'04	
asc. node	1799 Jun 25 18:15	23°♃16'01		morning max el	1800 May 15 19:54	29°♃09'12	25°42'35
morning set	1799 Jun 27 19:34	27°♃32'25			1800 May 16 16:30	0°♃	
	1799 Jun 28 23:24	0°♃			1800 Jun 06 02:17	0°♃	
				morning set	1800 Jun 12 07:11	12°♃28'06	
superior conj	1799 Jul 04 20:50	12°♃44'30	1°23'01	asc. node	1800 Jun 12 15:18	13°♃10'58	
minimum elong	1799 Jul 04 18:26	12°♃31'34	1°22'42				
max. Earth dist.	1799 Jul 06 19:24	16°♃55'13	1.33202 AU	superior conj	1800 Jun 19 07:33	27°♃40'55	1°05'20
evening rise	1799 Jul 12 06:57	28°♃21'05		minimum elong	1800 Jun 19 05:14	27°♃28'13	1°04'56
	1799 Jul 13 02:39	0°♃		max. Earth dist.	1800 Jun 20 04:17	29°♃34'26	1.32516 AU
	1799 Jul 30 07:02	0°♃			1800 Jun 20 08:58	0°♃	
desc. node	1799 Aug 03 04:31	5°♃35'43		evening rise	1800 Jun 26 09:41	12°♃53'38	
evening max el	1799 Aug 14 16:51	19°♃09'46	27°25'47		1800 Jul 05 05:46	0°♃	
retrograde	1799 Aug 28 08:18	26°♃27'31		desc. node	1800 Jul 21 01:31	24°♃07'41	
evening set	1799 Sep 04 12:23	23°♃49'20			1800 Jul 26 04:48	0°♃	
min. Earth dist.	1799 Sep 08 04:10	20°♃37'09	0.63626 AU	evening max el	1800 Jul 28 00:17	1°♃47'48	27°13'14
inferior conj	1799 Sep 10 18:24	17°♃58'49	-3°-22'-55	retrograde	1800 Aug 10 20:32	9°♃02'39	
minimum elong	1799 Sep 10 23:27	17°♃45'56	3°21'22	evening set	1800 Aug 17 23:58	6°♃41'49	
morning rise	1799 Sep 17 12:47	12°♃39'20		min. Earth dist.	1800 Aug 21 14:26	3°♃55'28	0.61781 AU
direct	1799 Sep 19 23:57	12°♃09'38		inferior conj	1800 Aug 24 15:59	1°♃09'49	-4°-11'-54
asc. node	1799 Sep 21 17:26	12°♃24'29		minimum elong	1800 Aug 24 21:09	0°♃58'07	4°10'47
morning max el	1799 Sep 26 13:39	15°♃35'17	17°52'54		1800 Aug 25 23:18	30°♃	
	1799 Oct 06 16:47	0°♃		morning rise	1800 Aug 31 21:08	26°♃10'41	
morning set	1799 Oct 13 04:30	11°♃09'21		direct	1800 Sep 03 06:20	25°♃46'29	
	1799 Oct 24 06:14	0°♃		asc. node	1800 Sep 08 14:29	27°♃51'58	
				morning max el	1800 Sep 10 04:31	29°♃15'22	17°55'31
superior conj	1799 Oct 25 13:45	2°♃10'11	0°30'44		1800 Sep 10 21:58	0°♃	
minimum elong	1799 Oct 25 16:54	2°♃23'10	0°30'17	morning set	1800 Sep 26 01:33	24°♃10'43	
desc. node	1799 Oct 30 03:48	9°♃38'01			1800 Sep 29 06:30	0°♃	
max. Earth dist.	1799 Oct 31 13:39	11°♃53'43	1.44133 AU				
evening rise	1799 Nov 10 09:55	27°♃19'42		superior conj	1800 Oct 06 17:07	13°♃11'28	1°06'33
	1799 Nov 12 03:39	0°♃		minimum elong	1800 Oct 06 21:44	13°♃31'25	1°05'59
	1799 Dec 02 15:20	0°♃		max. Earth dist.	1800 Oct 14 03:10	25°♃41'47	1.42682 AU
greatest brilliancy	1799 Dec 03 06:19	0°♃49'21	-0.5m		1800 Oct 16 18:37	0°♃	
evening max el	1799 Dec 08 23:44	7°♃37'04	20°43'09	desc. node	1800 Oct 17 00:50	0°♃25'02	
retrograde	1799 Dec 17 05:00	12°♃28'31		evening rise	1800 Oct 20 22:25	6°♃37'28	
asc. node	1799 Dec 18 16:40	12°♃16'09			1800 Nov 05 10:48	0°♃	
evening set	1799 Dec 21 02:05	11°♃02'19		greatest brilliancy	1800 Nov 17 01:37	15°♃44'26	-0.4m
inferior conj	1799 Dec 26 12:28	4°♃50'26	2°26'06	evening max el	1800 Nov 21 19:45	21°♃08'01	21°56'16
minimum elong	1799 Dec 26 09:53	4°♃59'16	2°25'18	retrograde	1800 Dec 01 01:41	26°♃38'10	
min. Earth dist.	1799 Dec 27 01:35	4°♃05'37	0.67382 AU	evening set	1800 Dec 05 09:52	24°♃55'40	
	1799 Dec 30 07:18	30°♃		asc. node	1800 Dec 05 13:43	24°♃47'52	
morning rise	1799 Dec 31 17:15	28°♃35'15		inferior conj	1800 Dec 10 19:22	18°♃35'14	1°43'09
direct	1800 Jan 06 04:05	26°♃12'03		minimum elong	1800 Dec 10 17:15	18°♃42'34	1°42'21
	1800 Jan 14 05:06	0°♃		min. Earth dist.	1800 Dec 10 20:55	18°♃29'52	0.67759 AU
morning max el	1800 Jan 17 05:24	2°♃47'36	24°12'03	morning rise	1800 Dec 16 00:25	12°♃21'20	
desc. node	1800 Jan 26 03:01	13°♃15'43		direct	1800 Dec 20 19:59	10°♃20'19	
	1800 Feb 06 23:20	0°♃		morning max el	1800 Dec 30 15:29	16°♃08'47	22°43'37
morning set	1800 Feb 21 23:38	24°♃16'37		greatest brilliancy	1801 Jan 04 06:11	21°♃17'43	-0.3m
	1800 Feb 25 05:39	0°♃			1801 Jan 10 23:27	0°♃	

desc. node	1801 Jan 13 00:03	2°☿48'06		desc. node	1801 Dec 30 21:06	22°♁47'03	
	1801 Jan 31 00:30	0°♁			1802 Jan 04 17:14	0°☿	
morning set	1801 Feb 02 17:59	4°♁26'36		morning set	1802 Jan 13 07:41	13°☿16'22	
max. Earth dist.	1801 Feb 07 13:59	12°♁32'50	1.40177 AU	max. Earth dist.	1802 Jan 20 15:13	25°☿02'14	1.42199 AU
					1802 Jan 23 15:02	0°♁	
superior conj	1801 Feb 15 08:29	26°♁15'08	-1°-58'-11	superior conj	1802 Jan 27 23:59	7°♁25'23	-2°-4'-41
minimum elong	1801 Feb 15 11:42	26°♁29'46	1°58'01	minimum elong	1802 Jan 27 23:46	7°♁24'29	2°04'42
	1801 Feb 17 09:36	0°♁		evening rise	1802 Feb 08 06:28	27°♁27'18	
evening rise	1801 Feb 25 05:54	14°♁45'45			1802 Feb 09 16:09	0°♁	
asc. node	1801 Mar 03 13:03	26°♁27'03		asc. node	1802 Feb 18 10:06	15°♁11'16	
	1801 Mar 05 14:19	0°♁		evening max el	1802 Feb 24 19:54	23°♁37'46	18°08'33
evening max el	1801 Mar 13 09:52	10°♁40'33	18°25'10	retrograde	1802 Mar 03 13:20	27°♁03'17	
retrograde	1801 Mar 20 19:58	14°♁20'27		evening set	1802 Mar 06 03:49	26°♁32'48	
evening set	1801 Mar 23 05:14	13°♁58'47		inferior conj	1802 Mar 12 21:15	21°♁36'52	3°30'30
inferior conj	1801 Mar 30 14:08	9°♁24'01	2°50'56	minimum elong	1802 Mar 12 23:26	21°♁31'42	3°30'14
minimum elong	1801 Mar 30 17:58	9°♁16'10	2°50'04	min. Earth dist.	1802 Mar 16 02:44	18°♁34'56	0.60828 AU
min. Earth dist.	1801 Apr 03 00:40	6°♁36'51	0.58688 AU	morning rise	1802 Mar 19 15:56	15°♁47'00	
morning rise	1801 Apr 07 02:40	3°♁54'37		direct	1802 Mar 26 09:48	13°♁33'19	
desc. node	1801 Apr 10 23:14	2°♁29'56		desc. node	1802 Mar 28 20:16	13°♁49'46	
direct	1801 Apr 13 05:37	2°♁16'27		morning max el	1802 Apr 09 15:36	21°♁26'17	27°41'22
morning max el	1801 Apr 27 14:38	9°♁58'37	26°58'16		1802 Apr 17 02:48	0°♁	
	1801 May 12 23:22	0°♁		morning set	1802 May 05 22:47	0°♁	
morning set	1801 May 27 17:01	27°♁16'58			1802 May 11 23:13	11°♁52'57	
	1801 May 28 23:55	0°♁		asc. node	1802 May 17 09:24	23°♁24'06	
asc. node	1801 May 30 12:21	3°♁15'06		max. Earth dist.	1802 May 18 03:55	25°♁04'54	1.32289 AU
superior conj	1801 Jun 03 19:20	12°♁38'01	0°44'00	superior conj	1802 May 19 06:29	27°♁30'11	0°19'45
minimum elong	1801 Jun 03 17:33	12°♁28'08	0°43'39	minimum elong	1802 May 19 05:35	27°♁25'19	0°19'34
max. Earth dist.	1801 Jun 03 16:24	12°♁21'52	1.32212 AU		1802 May 20 09:48	0°♁	
evening rise	1801 Jun 10 17:33	27°♁39'28		evening rise	1802 May 26 04:22	12°♁31'31	
	1801 Jun 11 20:27	0°♁			1802 Jun 04 00:58	0°♁	
	1801 Jun 28 18:30	0°♁		evening max el	1802 Jun 21 19:27	24°♁48'21	25°12'54
desc. node	1801 Jul 07 22:33	11°♁33'17		desc. node	1802 Jun 24 19:34	27°♁25'30	
evening max el	1801 Jul 10 01:24	13°♁41'01	26°27'34		1802 Jun 28 17:15	0°♁	
retrograde	1801 Jul 24 00:57	20°♁53'29		retrograde	1802 Jul 05 19:38	1°♁55'49	
evening set	1801 Jul 30 16:17	19°♁03'00		evening set	1802 Jul 11 09:20	0°♁44'05	
min. Earth dist.	1801 Aug 03 14:34	16°♁27'32	0.59732 AU		1802 Jul 12 23:01	30°♁	
inferior conj	1801 Aug 06 22:06	13°♁51'19	-4°-46'-46	min. Earth dist.	1802 Jul 16 07:15	28°♁00'33	0.57712 AU
minimum elong	1801 Aug 07 01:26	13°♁44'42	4°46'27	inferior conj	1802 Jul 19 09:26	25°♁54'01	-4°-56'-15
morning rise	1801 Aug 14 13:58	9°♁15'11		minimum elong	1802 Jul 19 08:27	25°♁55'42	4°56'14
direct	1801 Aug 16 23:51	8°♁54'17		morning rise	1802 Jul 27 11:19	21°♁40'30	
morning max el	1801 Aug 24 15:02	12°♁36'01	18°17'44	direct	1802 Jul 30 00:14	21°♁21'17	
asc. node	1801 Aug 26 11:33	14°♁34'24		morning max el	1802 Aug 07 18:00	25°♁27'36	19°00'36
	1801 Sep 05 08:01	0°♁			1802 Aug 11 17:38	0°♁	
morning set	1801 Sep 09 12:53	7°♁53'03		asc. node	1802 Aug 13 08:37	2°♁16'28	
				morning set	1802 Aug 24 10:10	22°♁04'27	
superior conj	1801 Sep 18 21:12	25°♁25'50	1°30'10		1802 Aug 28 10:21	0°♁	
minimum elong	1801 Sep 19 00:46	25°♁42'06	1°29'51	superior conj	1802 Sep 01 20:18	8°♁36'30	1°42'38
	1801 Sep 21 09:55	0°♁		minimum elong	1802 Sep 01 21:58	8°♁44'30	1°42'34
max. Earth dist.	1801 Sep 26 10:57	8°♁48'41	1.40804 AU	max. Earth dist.	1802 Sep 08 14:34	21°♁11'19	1.38756 AU
evening rise	1801 Oct 01 05:15	16°♁46'59		evening rise	1802 Sep 12 12:11	28°♁03'40	
desc. node	1801 Oct 03 21:52	21°♁08'56			1802 Sep 13 15:19	0°♁	
	1801 Oct 09 13:21	0°♁		desc. node	1802 Sep 20 18:54	11°♁45'19	
	1801 Oct 31 04:27	0°♁			1802 Oct 03 00:53	0°♁	
evening max el	1801 Nov 04 10:59	4°♁41'15	23°15'28	evening max el	1802 Oct 17 23:32	18°♁18'07	24°34'44
retrograde	1801 Nov 14 19:47	10°♁49'52		retrograde	1802 Oct 29 10:06	24°♁58'54	
evening set	1801 Nov 19 16:47	8°♁50'12		evening set	1802 Nov 03 21:08	22°♁42'32	
asc. node	1801 Nov 22 10:45	5°♁57'46		min. Earth dist.	1802 Nov 08 13:23	17°♁22'41	0.67490 AU
min. Earth dist.	1801 Nov 24 17:40	2°♁56'35	0.67790 AU	inferior conj	1802 Nov 09 09:00	16°♁17'13	0°01'02
inferior conj	1801 Nov 25 02:48	2°♁25'11	0°54'22	minimum elong	1802 Nov 09 08:58	16°♁17'18	0°01'01
minimum elong	1801 Nov 25 01:34	2°♁29'26	0°53'51	transit begin	1802 Nov 09 06:14	16°♁26'27	
morning rise	1801 Nov 30 10:25	26°♁14'34		transit end	1802 Nov 09 11:43	16°♁08'10	
direct	1801 Dec 04 15:22	24°♁36'24		asc. node	1802 Nov 09 07:48	16°♁21'13	
morning max el	1801 Dec 13 06:45	29°♁38'53	21°19'57	morning rise	1802 Nov 14 21:13	10°♁12'25	
	1801 Dec 13 15:03	0°♁		direct	1802 Nov 18 13:08	8°♁55'20	
greatest brilliancy	1801 Dec 18 11:01	5°♁34'26	-0.4m				

morning max el	1802 Nov 26 05:24	13°♍19'07	20°07'01			1803 Oct 24 14:58	30°♎		
greatest brilliancy	1802 Dec 03 04:13	21°♍43'35	-0.6m		asc. node	1803 Oct 27 04:51	26°♎54'01		
	1802 Dec 09 00:29	0°♎			morning rise	1803 Oct 30 06:53	24°♎12'40		
desc. node	1802 Dec 17 18:08	13°♎04'45			direct	1803 Nov 02 11:44	23°♎13'34		
morning set	1802 Dec 23 04:15	21°♎23'48			morning max el	1803 Nov 09 11:38	27°♎08'43	19°08'21	
	1802 Dec 28 16:50	0°♏				1803 Nov 12 01:06	0°♏		
max. Earth dist.	1803 Jan 02 23:59	8°♏23'35	1.43822 AU		morning set	1803 Dec 02 08:30	0°♏02'32		
						1803 Dec 02 07:52	0°♏		
superior conj	1803 Jan 08 13:41	17°♏24'23	-1°-55'-28		desc. node	1803 Dec 04 15:11	3°♏35'47		
minimum elong	1803 Jan 08 08:06	17°♏01'34	1°55'10		max. Earth dist.	1803 Dec 16 15:27	22°♏24'44	1.44841 AU	
	1803 Jan 16 02:59	0°♐							
evening rise	1803 Jan 21 13:31	9°♐19'07			superior conj	1803 Dec 19 02:39	26°♏18'33	-1°-27'-19	
	1803 Feb 02 23:01	0°♑			minimum elong	1803 Dec 18 17:51	25°♏43'42	1°26'26	
asc. node	1803 Feb 05 07:07	3°♑17'21				1803 Dec 21 10:28	0°♑		
evening max el	1803 Feb 08 08:22	6°♑51'30	18°11'18		evening rise	1804 Jan 02 22:59	20°♑14'58		
retrograde	1803 Feb 14 19:28	10°♑16'46				1804 Jan 08 21:19	0°♑		
evening set	1803 Feb 17 14:59	9°♑36'13			evening max el	1804 Jan 22 20:28	20°♑14'48	18°32'34	
inferior conj	1803 Feb 23 20:35	4°♑19'48	3°43'59		asc. node	1804 Jan 23 04:09	20°♑34'00		
minimum elong	1803 Feb 23 20:46	4°♑19'21	3°43'59		retrograde	1804 Jan 29 10:09	23°♑52'10		
min. Earth dist.	1803 Feb 26 13:20	1°♑27'15	0.62880 AU		evening set	1804 Feb 01 11:06	23°♑00'31		
	1803 Feb 28 00:39	30°♑			inferior conj	1804 Feb 07 08:09	17°♑25'06	3°38'12	
morning rise	1803 Mar 02 00:28	28°♑17'52			minimum elong	1804 Feb 07 06:45	17°♑29'15	3°38'05	
direct	1803 Mar 08 23:15	25°♑38'38			min. Earth dist.	1804 Feb 09 09:22	14°♑59'45	0.64645 AU	
desc. node	1803 Mar 15 17:19	27°♑45'39			morning rise	1804 Feb 13 01:06	11°♑16'04		
	1803 Mar 18 22:36	0°♒			direct	1804 Feb 19 19:59	8°♑25'53		
morning max el	1803 Mar 22 21:51	3°♒34'16	27°47'19		desc. node	1804 Mar 01 14:21	13°♑43'15		
	1803 Apr 11 14:52	0°♓			morning max el	1804 Mar 04 07:02	16°♑15'12	27°17'57	
morning set	1803 Apr 25 23:39	26°♓08'46				1804 Mar 15 16:00	0°♒		
	1803 Apr 27 21:03	0°♓				1804 Apr 03 09:19	0°♓		
max. Earth dist.	1803 May 01 10:59	7°♓30'49	1.32765 AU		morning set	1804 Apr 08 15:24	9°♓54'32		
					max. Earth dist.	1804 Apr 13 09:42	19°♓27'23	1.33680 AU	
superior conj	1803 May 03 15:15	12°♓11'35	0°-6'-41						
minimum elong	1803 May 03 15:34	12°♓13'19	0°06'37		superior conj	1804 Apr 16 19:39	26°♓34'52	0°-34'-21	
behind sun begin	1803 May 03 10:48	11°♓47'29			minimum elong	1804 Apr 16 21:22	26°♓43'58	0°34'01	
behind sun end	1803 May 03 20:21	12°♓39'10				1804 Apr 18 10:20	0°♓		
asc. node	1803 May 04 06:27	13°♓33'49			asc. node	1804 Apr 20 03:28	3°♓39'22		
evening rise	1803 May 10 16:14	27°♓23'18			evening rise	1804 Apr 24 03:15	12°♓07'29		
	1803 May 11 22:04	0°♔				1804 May 03 08:36	0°♔		
	1803 May 29 12:32	0°♕			evening max el	1804 May 15 02:07	15°♔57'12	22°05'02	
evening max el	1803 Jun 03 09:32	5°♕24'50	23°40'26		retrograde	1804 May 27 20:05	22°♔14'14		
desc. node	1803 Jun 11 16:35	11°♕10'14			desc. node	1804 May 28 13:36	22°♔13'02		
retrograde	1803 Jun 17 02:04	12°♕16'17			evening set	1804 May 30 15:12	21°♔56'52		
evening set	1803 Jun 21 04:41	11°♕39'11			min. Earth dist.	1804 Jun 08 07:37	18°♔13'49	0.55071 AU	
min. Earth dist.	1803 Jun 27 20:01	8°♕32'09	0.56049 AU		inferior conj	1804 Jun 08 23:36	17°♔51'23	-3°-8'-16	
inferior conj	1803 Jun 30 00:43	7°♕12'50	-4°-26'-12		minimum elong	1804 Jun 08 15:56	18°♔02'09	3°06'01	
minimum elong	1803 Jun 29 18:33	7°♕22'10	4°25'10		morning rise	1804 Jun 17 18:22	13°♔58'52		
morning rise	1803 Jul 08 11:46	3°♕16'14			direct	1804 Jun 20 19:41	13°♔38'03		
direct	1803 Jul 11 05:38	2°♕57'18			morning max el	1804 Jul 02 15:49	19°♔10'11	21°28'48	
morning max el	1803 Jul 21 10:41	7°♕41'12	20°04'42			1804 Jul 11 09:23	0°♕		
asc. node	1803 Jul 31 05:41	20°♕44'53			asc. node	1804 Jul 17 02:44	9°♕47'42		
	1803 Aug 05 06:41	0°♖			morning set	1804 Jul 22 22:55	21°♕23'26		
morning set	1803 Aug 08 14:20	6°♖37'05				1804 Jul 27 01:29	0°♖		
superior conj	1803 Aug 16 09:15	22°♖29'11	1°45'51		superior conj	1804 Jul 30 07:53	6°♖50'59	1°41'34	
minimum elong	1803 Aug 16 09:07	22°♖28'32	1°45'51		minimum elong	1804 Jul 30 06:27	6°♖43'28	1°41'29	
	1803 Aug 20 04:38	0°♗			max. Earth dist.	1804 Aug 03 07:30	15°♖00'21	1.35101 AU	
max. Earth dist.	1803 Aug 21 19:40	3°♗07'23	1.36794 AU		evening rise	1804 Aug 07 17:05	23°♖37'15		
evening rise	1803 Aug 25 17:39	10°♗24'36				1804 Aug 11 03:15	0°♗		
	1803 Sep 06 06:50	0°♘			desc. node	1804 Aug 24 12:58	22°♗15'20		
desc. node	1803 Sep 07 15:56	2°♘09'37				1804 Aug 29 21:52	0°♘		
	1803 Sep 28 13:00	0°♙			evening max el	1804 Sep 11 23:49	15°♘34'55	26°43'41	
evening max el	1803 Sep 30 11:34	1°♙58'09	25°46'40		retrograde	1804 Sep 24 23:59	22°♘49'30		
retrograde	1803 Oct 12 19:41	9°♙00'52			evening set	1804 Oct 01 14:51	20°♘08'36		
evening set	1803 Oct 18 21:10	6°♙29'52			min. Earth dist.	1804 Oct 05 15:57	16°♘01'35	0.65885 AU	
min. Earth dist.	1803 Oct 23 05:38	1°♙45'44	0.66862 AU		inferior conj	1804 Oct 07 10:21	13°♘56'15	-1°-53'-43	
inferior conj	1803 Oct 24 12:11	0°♚08'51	0°-55'-31		minimum elong	1804 Oct 07 13:22	13°♘47'18	1°52'31	
minimum elong	1803 Oct 24 13:37	0°♚04'16	0°54'55		asc. node	1804 Oct 13 01:54	8°♘27'54		

morning rise	1804 Oct 13 13:13	8°♁11'57			1805 Sep 18 19:27	30°♎	
direct	1804 Oct 16 09:16	7°♁27'10		inferior conj	1805 Sep 21 01:12	27°♎34'43	-2°-51'-19
morning max el	1804 Oct 22 23:48	11°♁03'47	18°25'40	minimum elong	1805 Sep 21 05:40	27°♎22'38	2°49'47
	1804 Nov 05 09:16	0°♎		morning rise	1805 Sep 27 13:40	22°♎05'30	
morning set	1804 Nov 11 14:49	10°♎02'04		direct	1805 Sep 30 03:17	21°♎31'22	
desc. node	1804 Nov 20 12:14	24°♎15'56		asc. node	1805 Sep 29 22:57	21°♎31'32	
	1804 Nov 24 03:11	0°♎		morning max el	1805 Oct 06 15:22	24°♎58'36	17°59'51
					1805 Oct 10 18:57	0°♎	
superior conj	1804 Nov 27 03:51	4°♎46'08	0°-43'-28	morning set	1805 Oct 24 01:44	21°♎25'07	
minimum elong	1804 Nov 26 22:15	4°♎24'08	0°42'44		1805 Oct 29 04:33	0°♎	
max. Earth dist.	1804 Nov 28 10:27	6°♎46'22	1.45136 AU				
	1804 Dec 13 05:24	0°♎		superior conj	1805 Nov 06 14:50	13°♎47'15	0°05'11
evening rise	1804 Dec 13 09:04	0°♎14'28		minimum elong	1805 Nov 06 15:27	13°♎49'43	0°05'06
greatest brilliancy	1804 Dec 26 04:29	20°♎15'35	-0.7m	behind sun begin	1805 Nov 06 05:29	13°♎09'36	
	1805 Jan 02 01:05	0°♎		behind sun end	1805 Nov 07 01:25	14°♎29'45	
evening max el	1805 Jan 05 05:47	3°♎42'50	19°11'16	desc. node	1805 Nov 07 09:15	15°♎01'12	
asc. node	1805 Jan 09 01:10	6°♎47'45		max. Earth dist.	1805 Nov 11 05:13	21°♎07'26	1.44690 AU
retrograde	1805 Jan 12 05:51	7°♎42'56			1805 Nov 16 20:51	0°♎	
evening set	1805 Jan 15 13:17	6°♎39'04		evening rise	1805 Nov 22 23:42	9°♎29'03	
inferior conj	1805 Jan 21 04:30	0°♎47'00	3°18'16		1805 Dec 06 11:48	0°♎	
minimum elong	1805 Jan 21 02:10	0°♎54'26	3°17'50	greatest brilliancy	1805 Dec 12 15:55	8°♎51'47	-0.6m
	1805 Jan 21 19:11	30°♎		evening max el	1805 Dec 19 10:29	17°♎11'57	20°05'44
min. Earth dist.	1805 Jan 22 14:30	28°♎58'32	0.66020 AU	retrograde	1805 Dec 27 03:38	21°♎43'18	
morning rise	1805 Jan 26 14:12	24°♎33'47		asc. node	1805 Dec 26 22:12	21°♎43'01	
direct	1805 Feb 01 23:02	21°♎46'27		evening set	1805 Dec 30 19:07	20°♎25'47	
morning max el	1805 Feb 14 16:48	29°♎18'12	26°19'46	inferior conj	1806 Jan 05 06:43	14°♎20'05	2°47'39
	1805 Feb 15 09:10	0°♎		minimum elong	1806 Jan 05 04:04	14°♎28'57	2°46'56
desc. node	1805 Feb 16 11:22	1°♎09'23		min. Earth dist.	1806 Jan 06 03:00	13°♎11'57	0.66991 AU
	1805 Mar 09 12:23	0°♎		morning rise	1806 Jan 10 12:27	8°♎04'50	
morning set	1805 Mar 22 18:51	22°♎59'45		direct	1806 Jan 16 07:43	5°♎30'49	
	1805 Mar 26 10:47	0°♎		morning max el	1806 Jan 28 01:37	12°♎31'14	25°01'48
max. Earth dist.	1805 Mar 26 21:22	0°♎51'48	1.35051 AU	desc. node	1806 Feb 03 08:25	19°♎37'48	
					1806 Feb 11 03:55	0°♎	
superior conj	1805 Mar 31 17:24	10°♎33'32	-1°-2'-1		1806 Mar 02 06:29	0°♎	
minimum elong	1805 Mar 31 20:30	10°♎49'25	1°01'29	morning set	1806 Mar 05 04:56	5°♎09'36	
asc. node	1805 Apr 07 00:30	23°♎36'52		max. Earth dist.	1806 Mar 08 21:54	11°♎54'17	1.36846 AU
evening rise	1805 Apr 08 11:32	26°♎38'08					
	1805 Apr 10 03:03	0°♎		superior conj	1806 Mar 15 05:31	23°♎58'57	-1°-27'-52
evening max el	1805 Apr 27 03:52	26°♎54'22	20°39'44	minimum elong	1806 Mar 15 09:36	24°♎19'05	1°27'20
	1805 Apr 30 23:51	0°♎			1806 Mar 18 06:13	0°♎	
retrograde	1805 May 08 09:07	2°♎21'24		evening rise	1806 Mar 23 14:50	10°♎47'55	
evening set	1805 May 10 11:58	2°♎10'31		asc. node	1806 Mar 24 21:32	13°♎21'22	
desc. node	1805 May 15 10:35	0°♎31'26			1806 Apr 03 01:13	0°♎	
	1805 May 16 12:01	30°♎		evening max el	1806 Apr 09 17:24	8°♎30'40	19°31'50
inferior conj	1805 May 19 17:29	28°♎12'52	-1°-14'-45	retrograde	1806 Apr 19 05:23	13°♎05'48	
minimum elong	1805 May 19 13:56	28°♎17'57	1°13'29	evening set	1806 Apr 21 06:34	12°♎53'56	
min. Earth dist.	1805 May 20 20:06	27°♎34'39	0.55008 AU	inferior conj	1806 Apr 29 21:01	8°♎48'58	0°41'54
morning rise	1805 May 28 14:42	24°♎04'41		minimum elong	1806 Apr 29 22:46	8°♎46'09	0°41'18
direct	1805 Jun 01 05:32	23°♎36'31		min. Earth dist.	1806 May 02 10:33	7°♎10'46	0.55891 AU
	1805 Jun 14 11:24	0°♎		desc. node	1806 May 02 07:35	7°♎15'23	
morning max el	1805 Jun 14 11:20	29°♎59'52	23°07'14	morning rise	1806 May 08 11:15	4°♎09'12	
asc. node	1805 Jul 03 23:46	29°♎16'09		direct	1806 May 13 00:21	3°♎22'35	
	1805 Jul 04 08:32	0°♎		morning max el	1806 May 27 02:06	10°♎28'27	24°48'44
morning set	1805 Jul 07 10:01	6°♎17'44			1806 Jun 10 19:11	0°♎	
				asc. node	1806 Jun 20 20:50	19°♎03'12	
superior conj	1805 Jul 14 13:06	21°♎32'33	1°31'15	morning set	1806 Jun 21 21:55	21°♎14'39	
minimum elong	1805 Jul 14 10:54	21°♎20'47	1°31'01		1806 Jun 25 23:39	0°♎	
max. Earth dist.	1805 Jul 17 04:26	27°♎08'19	1.33778 AU				
	1805 Jul 18 13:21	0°♎		superior conj	1806 Jun 28 22:26	6°♎25'57	1°16'00
evening rise	1805 Jul 22 05:59	7°♎29'27		minimum elong	1806 Jun 28 20:01	6°♎12'47	1°15'39
	1805 Aug 03 16:07	0°♎		max. Earth dist.	1806 Jun 30 09:36	9°♎36'54	1.32857 AU
desc. node	1805 Aug 11 09:58	11°♎54'18		evening rise	1806 Jul 06 04:35	21°♎50'24	
evening max el	1805 Aug 25 11:36	28°♎58'23	27°18'22		1806 Jul 10 07:16	0°♎	
	1805 Aug 26 14:09	0°♎			1806 Jul 28 14:23	0°♎	
retrograde	1805 Sep 07 22:39	6°♎16'59		desc. node	1806 Jul 29 06:57	0°♎55'28	
evening set	1805 Sep 14 23:37	3°♎34'16		evening max el	1806 Aug 07 21:17	11°♎56'55	27°24'28
min. Earth dist.	1805 Sep 18 18:06	0°♎03'35	0.64550 AU	retrograde	1806 Aug 21 15:18	19°♎14'29	

evening set	1806 Aug 28 20:13	16° Υ 41'46		retrograde	1807 Aug 04 00:39	1° Υ 31'30	
min. Earth dist.	1806 Sep 01 10:34	13° Υ 42'04	0.62869 AU		1807 Aug 09 21:24	30° Ω	
inferior conj	1806 Sep 04 06:04	10° Υ 58'34	-3°-44'-54	evening set	1807 Aug 11 00:15	29° Ω 22'23	
minimum elong	1806 Sep 04 11:20	10° Υ 45'45	3°43'29	min. Earth dist.	1807 Aug 14 16:38	26° Ω 42'31	0.60918 AU
morning rise	1806 Sep 11 05:02	5° Υ 47'38		inferior conj	1807 Aug 17 21:33	23° Ω 58'34	-4°-29'-1
direct	1806 Sep 13 14:54	5° Υ 20'44		minimum elong	1807 Aug 18 02:15	23° Ω 48'32	4°28'14
asc. node	1806 Sep 16 20:01	6° Υ 09'38		morning rise	1807 Aug 25 07:19	19° Ω 08'48	
morning max el	1806 Sep 20 07:26	8° Υ 46'54	17°51'45	direct	1807 Aug 27 16:21	18° Ω 46'19	
	1806 Oct 04 06:49	0° Ω		morning max el	1807 Sep 03 20:51	22° Ω 19'51	18°02'27
morning set	1806 Oct 06 12:13	3° Ω 56'15		asc. node	1807 Sep 03 17:05	22° Ω 10'49	
					1807 Sep 09 20:02	0° Υ	
superior conj	1806 Oct 18 02:33	24° Ω 02'39	0°47'23	morning set	1807 Sep 19 16:00	17° Υ 16'47	
minimum elong	1806 Oct 18 06:45	24° Ω 20'16	0°46'49		1807 Sep 26 13:53	0° Ω	
	1806 Oct 21 16:33	0° Υ					
max. Earth dist.	1806 Oct 24 20:46	5° Υ 10'22	1.43574 AU	superior conj	1807 Sep 29 17:02	5° Ω 36'25	1°18'01
desc. node	1806 Oct 25 06:17	5° Υ 48'45		minimum elong	1807 Sep 29 21:24	5° Ω 55'44	1°17'33
evening rise	1806 Nov 02 07:57	18° Υ 33'02		max. Earth dist.	1807 Oct 07 07:35	18° Ω 40'52	1.41924 AU
	1806 Nov 09 20:03	0° Υ		desc. node	1807 Oct 12 03:20	26° Ω 34'49	
greatest brilliancy	1806 Nov 27 05:18	24° Υ 41'16	-0.4m	evening rise	1807 Oct 13 02:58	28° Ω 09'33	
	1806 Dec 01 17:33	0° Υ			1807 Oct 14 06:43	0° Υ	
evening max el	1806 Dec 02 09:40	0° Υ 42'06	21°13'12		1807 Nov 03 12:49	0° Υ	
retrograde	1806 Dec 11 01:14	5° Υ 50'14		greatest brilliancy	1807 Nov 10 08:45	8° Υ 52'04	-0.3m
asc. node	1806 Dec 13 19:15	5° Υ 08'09		evening max el	1807 Nov 15 03:34	14° Υ 14'03	22°29'38
evening set	1806 Dec 15 02:42	4° Υ 17'28		retrograde	1807 Nov 24 20:53	20° Υ 00'40	
	1806 Dec 19 01:39	30° Υ		evening set	1807 Nov 29 10:18	18° Υ 11'09	
inferior conj	1806 Dec 20 12:31	28° Υ 01'27	2°08'43	asc. node	1807 Nov 30 16:18	17° Υ 02'05	
minimum elong	1806 Dec 20 10:05	28° Υ 09'51	2°07'52	inferior conj	1807 Dec 04 19:52	11° Υ 48'30	1°23'07
min. Earth dist.	1806 Dec 20 20:38	27° Υ 33'27	0.67582 AU	minimum elong	1807 Dec 04 18:05	11° Υ 54'41	1°22'24
morning rise	1806 Dec 25 17:05	21° Υ 46'18		min. Earth dist.	1807 Dec 04 16:54	11° Υ 58'47	0.67815 AU
direct	1806 Dec 30 21:23	19° Υ 32'05		morning rise	1807 Dec 10 01:44	5° Υ 35'37	
morning max el	1807 Jan 10 10:15	25° Υ 48'43	23°34'16	direct	1807 Dec 14 15:02	3° Υ 44'08	
	1807 Jan 14 06:02	0° Υ		morning max el	1807 Dec 23 21:56	9° Υ 12'16	22°06'57
desc. node	1807 Jan 21 05:29	8° Υ 50'41		greatest brilliancy	1807 Dec 28 13:34	14° Υ 25'46	-0.4m
	1807 Feb 04 17:20	0° Υ		desc. node	1808 Jan 08 02:33	28° Υ 35'23	
morning set	1807 Feb 14 15:29	16° Υ 07'22			1808 Jan 09 02:05	0° Υ	
max. Earth dist.	1807 Feb 18 16:34	23° Υ 06'08	1.38935 AU	morning set	1808 Jan 25 21:16	25° Υ 41'06	
	1807 Feb 22 13:13	0° Υ			1808 Jan 28 12:53	0° Υ	
				max. Earth dist.	1808 Jan 31 14:02	5° Υ 03'34	1.41069 AU
superior conj	1807 Feb 26 04:13	6° Υ 41'27	-1°-49'-17				
minimum elong	1807 Feb 26 08:16	7° Υ 00'27	1°48'56	superior conj	1808 Feb 08 08:40	18° Υ 29'15	-2°-2'-33
evening rise	1807 Mar 07 10:26	24° Υ 29'42		minimum elong	1808 Feb 08 10:45	18° Υ 38'32	2°02'30
	1807 Mar 10 07:01	0° Υ			1808 Feb 14 16:59	0° Υ	
asc. node	1807 Mar 11 18:34	2° Υ 47'42		evening rise	1808 Feb 18 19:03	7° Υ 35'35	
evening max el	1807 Mar 23 17:25	20° Υ 45'14	18°43'47	asc. node	1808 Feb 26 15:37	21° Υ 49'34	
retrograde	1807 Mar 31 18:20	24° Υ 40'12			1808 Mar 02 23:56	0° Υ	
evening set	1807 Apr 03 00:26	24° Υ 22'52		evening max el	1808 Mar 06 00:48	3° Υ 29'49	18°15'47
inferior conj	1807 Apr 10 19:47	20° Υ 00'28	2°13'37	retrograde	1808 Mar 13 02:12	7° Υ 01'22	
minimum elong	1807 Apr 10 23:48	19° Υ 52'58	2°12'29	evening set	1808 Mar 15 13:56	6° Υ 35'59	
min. Earth dist.	1807 Apr 14 03:44	17° Υ 32'41	0.57533 AU	inferior conj	1808 Mar 22 15:47	1° Υ 52'14	3°11'21
morning rise	1807 Apr 18 18:49	14° Υ 47'20		minimum elong	1808 Mar 22 19:03	1° Υ 45'07	3°10'45
desc. node	1807 Apr 19 04:38	14° Υ 36'36			1808 Mar 24 19:09	30° Υ	
direct	1807 Apr 24 09:26	13° Υ 29'46		min. Earth dist.	1808 Mar 26 01:32	28° Υ 55'49	0.59592 AU
morning max el	1807 May 08 17:52	21° Υ 02'25	26°18'05	morning rise	1808 Mar 29 20:33	26° Υ 13'20	
	1807 May 16 12:15	0° Υ		direct	1808 Apr 05 07:14	24° Υ 19'24	
	1807 Jun 03 09:32	0° Υ		desc. node	1808 Apr 05 01:41	24° Υ 19'32	
morning set	1807 Jun 06 08:58	6° Υ 08'02			1808 Apr 17 08:21	0° Υ	
asc. node	1807 Jun 07 17:52	9° Υ 02'30		morning max el	1808 Apr 19 15:00	2° Υ 06'26	27°21'01
					1808 May 09 19:31	0° Υ	
superior conj	1807 Jun 13 09:50	21° Υ 23'38	0°56'42	morning set	1808 May 20 17:30	20° Υ 52'26	
minimum elong	1807 Jun 13 07:42	21° Υ 11'50	0°56'18	asc. node	1808 May 24 14:55	29° Υ 09'25	
max. Earth dist.	1807 Jun 13 20:09	22° Υ 20'19	1.32337 AU		1808 May 25 00:14	0° Υ	
	1807 Jun 17 08:25	0° Υ		max. Earth dist.	1808 May 27 08:37	5° Υ 08'25	1.32202 AU
evening rise	1807 Jun 20 09:48	6° Υ 29'48					
	1807 Jul 02 20:41	0° Ω		superior conj	1808 May 27 21:35	6° Υ 19'42	0°34'03
desc. node	1807 Jul 16 03:59	19° Ω 02'16		minimum elong	1808 May 27 20:08	6° Υ 11'41	0°33'45
evening max el	1807 Jul 21 02:25	24° Ω 17'27	26°57'53	evening rise	1808 Jun 03 19:13	21° Υ 19'46	
	1807 Jul 28 22:25	0° Υ			1808 Jun 08 00:43	0° Υ	

	1808 Jun 26 15:36	0°♁			1809 May 16 09:28	0°♁		
evening max el	1808 Jul 02 00:44	5°♁51'36	25°58'52	evening rise	1809 May 19 06:42	6°♁12'06		
desc. node	1808 Jul 02 00:59	5°♁52'09			1809 May 31 20:20	0°♁		
retrograde	1808 Jul 16 00:51	13°♁01'33		evening max el	1809 Jun 13 16:21	16°♁42'11	24°34'47	
evening set	1808 Jul 22 06:57	11°♁27'23		desc. node	1809 Jun 18 21:58	20°♁54'26		
min. Earth dist.	1808 Jul 26 13:15	8°♁50'40	0.58861 AU	retrograde	1809 Jun 27 14:14	23°♁44'32		
inferior conj	1808 Jul 29 20:05	6°♁24'56	-4°-54'-44	evening set	1809 Jul 02 13:57	22°♁48'33		
minimum elong	1808 Jul 29 21:52	6°♁21'36	4°54'39	min. Earth dist.	1809 Jul 08 03:26	19°♁56'53	0.56949 AU	
morning rise	1808 Aug 06 16:16	1°♁58'19		inferior conj	1809 Jul 10 22:46	18°♁08'37	-4°-49'-6	
direct	1808 Aug 09 03:20	1°♁38'09		minimum elong	1809 Jul 10 19:27	18°♁13'59	4°48'49	
morning max el	1808 Aug 17 04:26	5°♁28'46	18°33'16	morning rise	1809 Jul 19 04:41	14°♁03'39		
asc. node	1808 Aug 20 14:09	9°♁20'07		direct	1809 Jul 21 19:42	13°♁44'38		
	1808 Sep 01 16:56	0°♁		morning max el	1809 Jul 31 03:15	18°♁04'44	19°25'18	
morning set	1808 Sep 02 08:00	1°♁12'42		asc. node	1809 Aug 07 11:11	27°♁23'00		
					1809 Aug 09 01:41	0°♁		
superior conj	1808 Sep 11 05:51	18°♁16'15	1°36'43	morning set	1809 Aug 17 08:32	15°♁33'57		
minimum elong	1808 Sep 11 08:39	18°♁29'15	1°36'31		1809 Aug 24 13:45	0°♁		
	1808 Sep 17 17:07	0°♁						
max. Earth dist.	1808 Sep 18 13:39	1°♁29'55	1.39948 AU	superior conj	1809 Aug 25 11:26	1°♁46'29	1°45'02	
evening rise	1808 Sep 22 19:55	8°♁46'58		minimum elong	1809 Aug 25 12:17	1°♁50'42	1°45'00	
desc. node	1808 Sep 28 00:21	17°♁15'48		max. Earth dist.	1809 Aug 31 17:23	13°♁39'24	1.37900 AU	
	1808 Oct 06 06:51	0°♁		evening rise	1809 Sep 04 12:50	20°♁31'37		
evening max el	1808 Oct 27 17:31	27°♁48'54	23°49'37		1809 Sep 10 01:39	0°♁		
	1808 Oct 30 01:40	0°♁		desc. node	1809 Sep 14 21:21	7°♁47'29		
retrograde	1808 Nov 07 13:20	4°♁11'26			1809 Sep 30 07:50	0°♁		
evening set	1808 Nov 12 16:18	2°♁04'29		evening max el	1809 Oct 10 05:31	11°♁27'01	25°06'37	
	1808 Nov 14 18:04	30°♁		retrograde	1809 Oct 22 01:42	18°♁18'29		
asc. node	1808 Nov 16 13:21	27°♁45'45		evening set	1809 Oct 27 19:03	15°♁55'10		
min. Earth dist.	1808 Nov 17 13:23	26°♁25'13	0.67709 AU	min. Earth dist.	1809 Nov 01 07:49	10°♁50'35	0.67265 AU	
inferior conj	1808 Nov 18 02:58	25°♁39'03	0°32'13	inferior conj	1809 Nov 02 08:05	9°♁31'08	0°-22'-40	
minimum elong	1808 Nov 18 02:12	25°♁41'38	0°31'53	minimum elong	1809 Nov 02 08:40	9°♁29'16	0°22'26	
morning rise	1808 Nov 23 12:19	19°♁30'47		asc. node	1809 Nov 03 10:23	8°♁06'00		
direct	1808 Nov 27 11:36	18°♁01'48		morning rise	1809 Nov 07 22:52	3°♁29'56		
morning max el	1808 Dec 05 16:09	22°♁46'04	20°47'20	direct	1809 Nov 11 09:47	2°♁21'05		
greatest brilliancy	1808 Dec 11 11:09	29°♁31'52	-0.5m	morning max el	1809 Nov 18 18:16	6°♁31'14	19°40'15	
	1808 Dec 11 19:50	0°♁		greatest brilliancy	1809 Nov 26 20:30	16°♁37'20	-0.6m	
desc. node	1808 Dec 24 23:36	18°♁42'49			1809 Dec 05 21:48	0°♁		
	1809 Jan 01 10:01	0°♁		desc. node	1809 Dec 11 20:39	9°♁06'51		
morning set	1809 Jan 04 01:10	4°♁04'37		morning set	1809 Dec 13 21:56	12°♁17'01		
max. Earth dist.	1809 Jan 12 19:03	17°♁58'05	1.42955 AU		1809 Dec 25 06:07	0°♁		
				max. Earth dist.	1809 Dec 26 07:14	1°♁39'29	1.44336 AU	
superior conj	1809 Jan 19 13:32	29°♁09'19	-2°-2'-58					
minimum elong	1809 Jan 19 11:08	28°♁59'15	2°02'56	superior conj	1809 Dec 30 15:58	8°♁38'02	-1°-45'-51	
	1809 Jan 20 01:33	0°♁		minimum elong	1809 Dec 30 08:24	8°♁07'35	1°45'17	
evening rise	1809 Jan 31 12:40	19°♁56'36			1810 Jan 12 14:46	0°♁		
	1809 Feb 06 05:17	0°♁		evening rise	1810 Jan 13 11:03	1°♁25'36		
asc. node	1809 Feb 12 12:39	10°♁18'24		asc. node	1810 Jan 30 09:40	28°♁04'46		
evening max el	1809 Feb 17 12:11	16°♁34'20	18°07'23	evening max el	1810 Feb 01 00:44	29°♁52'12	18°18'03	
retrograde	1809 Feb 24 01:40	19°♁58'11			1810 Feb 01 03:51	0°♁		
evening set	1809 Feb 26 18:21	19°♁23'26		retrograde	1810 Feb 07 12:03	3°♁21'36		
inferior conj	1809 Mar 05 06:15	14°♁18'18	3°38'58	evening set	1810 Feb 10 09:42	2°♁36'32		
minimum elong	1809 Mar 05 07:34	14°♁15'01	3°38'52		1810 Feb 13 20:01	30°♁		
min. Earth dist.	1809 Mar 08 06:45	11°♁18'03	0.61724 AU	inferior conj	1810 Feb 16 11:17	27°♁11'37	3°43'32	
morning rise	1809 Mar 11 18:12	8°♁22'33		minimum elong	1810 Feb 16 10:43	27°♁13'13	3°43'31	
direct	1809 Mar 18 15:15	5°♁56'48		min. Earth dist.	1810 Feb 18 21:28	24°♁28'54	0.63671 AU	
desc. node	1809 Mar 22 22:44	6°♁48'32		morning rise	1810 Feb 22 09:59	21°♁05'52		
morning max el	1809 Apr 01 18:28	13°♁51'11	27°48'36	direct	1810 Mar 01 07:50	18°♁20'16		
	1809 Apr 14 17:55	0°♁		desc. node	1810 Mar 09 19:47	21°♁40'12		
	1809 May 02 05:40	0°♁		morning max el	1810 Mar 15 02:32	26°♁14'59	27°38'53	
morning set	1809 May 04 21:32	5°♁20'19			1810 Mar 18 14:25	0°♁		
max. Earth dist.	1809 May 10 18:53	17°♁46'12	1.32446 AU		1810 Apr 08 07:20	0°♁		
asc. node	1809 May 11 11:57	19°♁18'47		morning set	1810 Apr 18 18:38	19°♁24'06		
					1810 Apr 23 22:49	0°♁		
superior conj	1809 May 12 07:54	21°♁07'21	0°08'47	max. Earth dist.	1810 Apr 23 22:54	0°♁00'26	1.33099 AU	
minimum elong	1809 May 12 07:29	21°♁05'07	0°08'42					
behind sun begin	1809 May 12 03:10	20°♁41'36		superior conj	1810 Apr 26 15:01	5°♁40'59	0°-18'-20	
behind sun end	1809 May 12 11:48	21°♁28'38		minimum elong	1810 Apr 26 15:55	5°♁45'49	0°18'09	

asc. node	1810 Apr 28 08:59	9°♄26'36		minimum elong	1811 Apr 10 19:14	20°♃06'49	0°45'46
evening rise	1810 May 03 18:23	21°♄00'35			1811 Apr 15 11:51	0°♄	
	1810 May 08 03:43	0°♂		asc. node	1811 Apr 15 06:01	29°♃29'08	
evening max el	1810 May 26 06:16	27°♂11'31	22°59'14	evening rise	1811 Apr 18 04:30	5°♄39'29	
	1810 May 29 12:37	0°♄			1811 May 01 13:58	0°♂	
desc. node	1810 Jun 05 18:59	3°♄33'03		evening max el	1811 May 08 02:16	7°♂52'13	21°27'03
retrograde	1810 Jun 08 15:30	3°♄51'39		retrograde	1811 May 20 06:18	13°♂49'11	
evening set	1810 Jun 12 03:18	3°♄24'54		evening set	1811 May 22 16:02	13°♂36'00	
min. Earth dist.	1810 Jun 19 15:20	0°♄04'01	0.55526 AU	desc. node	1811 May 23 16:00	13°♂23'09	
	1810 Jun 19 18:07	30°♂		inferior conj	1811 Jun 01 01:10	9°♂36'06	-2°-22'-52
inferior conj	1810 Jun 21 06:04	29°♂07'53	-3°-58'-52	minimum elong	1811 May 31 18:43	9°♂45'08	2°20'44
minimum elong	1810 Jun 20 22:33	29°♂18'49	3°57'10	min. Earth dist.	1811 Jun 01 03:35	9°♂32'44	0.54917 AU
morning rise	1810 Jun 29 20:46	25°♂15'22		morning rise	1811 Jun 09 21:50	5°♂38'59	
direct	1810 Jul 02 17:06	24°♂56'12		direct	1811 Jun 13 03:46	5°♂16'00	
	1810 Jul 13 15:16	0°♄		morning max el	1811 Jun 25 15:49	11°♂11'08	22°09'27
morning max el	1810 Jul 13 15:07	29°♂59'38	20°38'21		1811 Jul 09 08:06	0°♄	
asc. node	1810 Jul 25 08:14	16°♄06'50		asc. node	1811 Jul 12 05:17	5°♄21'35	
morning set	1810 Aug 01 14:48	0°♃12'45		morning set	1811 Jul 17 00:42	15°♄03'19	
	1810 Aug 01 12:19	0°♃			1811 Jul 24 02:06	0°♃	
superior conj	1810 Aug 09 04:56	15°♃52'52	1°44'51	superior conj	1811 Jul 24 06:45	0°♃24'32	1°37'51
minimum elong	1810 Aug 09 04:11	15°♃49'01	1°44'50	minimum elong	1811 Jul 24 04:55	0°♃14'52	1°37'43
max. Earth dist.	1810 Aug 14 00:26	25°♃29'26	1.36026 AU	max. Earth dist.	1811 Jul 27 15:56	7°♃26'53	1.34488 AU
	1810 Aug 16 08:44	0°♄		evening rise	1811 Aug 01 08:14	16°♃47'27	
evening rise	1810 Aug 18 02:28	3°♄15'46			1811 Aug 08 11:53	0°♄	
desc. node	1810 Sep 01 18:20	28°♄04'25		desc. node	1811 Aug 19 15:21	18°♄00'00	
	1810 Sep 03 00:43	0°♃			1811 Aug 28 10:34	0°♃	
evening max el	1810 Sep 22 17:23	25°♃05'43	26°13'11	evening max el	1811 Sep 05 05:41	8°♃38'48	27°01'35
	1810 Sep 28 18:16	0°♄		retrograde	1811 Sep 18 11:23	15°♃56'11	
retrograde	1810 Oct 05 09:17	2°♄15'33		evening set	1811 Sep 25 06:55	13°♃13'33	
	1810 Oct 11 06:29	30°♃		min. Earth dist.	1811 Sep 29 05:07	9°♃21'57	0.65361 AU
evening set	1810 Oct 11 16:40	29°♃39'22		inferior conj	1811 Oct 01 04:46	7°♃05'54	-2°-18'-23
min. Earth dist.	1810 Oct 15 21:49	25°♃10'59	0.66485 AU	minimum elong	1811 Oct 01 08:27	6°♃55'23	2°17'00
inferior conj	1810 Oct 17 09:22	23°♃21'13	-1°-20'-10	morning rise	1811 Oct 07 11:34	1°♃27'19	
minimum elong	1810 Oct 17 11:29	23°♃14'41	1°19'17	asc. node	1811 Oct 08 04:29	1°♃09'23	
asc. node	1810 Oct 21 07:26	18°♃59'09		direct	1811 Oct 10 04:30	0°♃47'34	
morning rise	1810 Oct 23 07:23	17°♃29'48		morning max el	1811 Oct 16 17:15	4°♃19'26	18°12'27
direct	1810 Oct 26 08:05	16°♃37'26			1811 Nov 03 00:54	0°♄	
morning max el	1810 Nov 02 03:20	20°♃23'52	18°48'10	morning set	1811 Nov 04 06:45	2°♄02'34	
	1810 Nov 09 15:52	0°♄		desc. node	1811 Nov 15 14:40	20°♄24'14	
morning set	1810 Nov 23 11:55	21°♄26'18					
desc. node	1810 Nov 28 17:39	29°♄41'51		superior conj	1811 Nov 19 00:19	25°♄48'38	0°-22'-38
	1810 Nov 28 22:16	0°♃		minimum elong	1811 Nov 18 21:24	25°♄37'06	0°22'16
max. Earth dist.	1810 Dec 09 00:04	15°♃49'30	1.45054 AU		1811 Nov 21 16:02	0°♃	
				max. Earth dist.	1811 Nov 21 18:56	0°♃11'27	1.45041 AU
superior conj	1810 Dec 09 21:33	17°♃13'59	-1°-10'-6	evening rise	1811 Dec 05 11:12	21°♃33'21	
minimum elong	1810 Dec 09 13:20	16°♃41'41	1°09'10		1811 Dec 10 21:37	0°♄	
	1810 Dec 17 23:29	0°♄		greatest brilliancy	1811 Dec 21 13:52	16°♄12'04	-0.7m
evening rise	1810 Dec 25 10:29	11°♄56'22		evening max el	1811 Dec 29 19:28	26°♄46'21	19°32'46
	1811 Jan 05 17:09	0°♄			1812 Jan 02 18:25	0°♄	
evening max el	1811 Jan 15 11:52	13°♄17'33	18°47'00	asc. node	1812 Jan 04 03:45	0°♄38'07	
asc. node	1811 Jan 17 06:42	14°♄56'10		retrograde	1812 Jan 06 02:00	0°♄58'33	
retrograde	1811 Jan 22 05:15	17°♄03'36			1812 Jan 09 05:55	30°♄	
evening set	1811 Jan 25 08:41	16°♄07'07		evening set	1812 Jan 09 12:40	29°♄49'06	
inferior conj	1811 Jan 31 02:59	10°♄24'29	3°31'14	inferior conj	1812 Jan 15 02:08	23°♄51'09	3°06'25
minimum elong	1811 Jan 31 01:07	10°♄30'13	3°30'59	minimum elong	1812 Jan 14 23:36	23°♄59'25	3°05'50
min. Earth dist.	1811 Feb 01 21:41	8°♄13'41	0.65279 AU	min. Earth dist.	1812 Jan 16 06:10	22°♄19'30	0.66487 AU
morning rise	1811 Feb 05 16:23	4°♄13'09		morning rise	1812 Jan 20 09:47	17°♄36'57	
direct	1811 Feb 12 07:36	1°♄22'20		direct	1812 Jan 26 13:17	14°♄53'56	
desc. node	1811 Feb 24 16:50	8°♄18'43		morning max el	1812 Feb 07 21:24	22°♄13'48	25°48'19
morning max el	1811 Feb 25 12:15	9°♄06'39	26°56'09	desc. node	1812 Feb 11 13:53	26°♄13'36	
	1811 Mar 13 21:21	0°♄			1812 Feb 14 17:14	0°♄	
	1811 Mar 31 17:02	0°♃			1812 Mar 06 03:51	0°♄	
morning set	1811 Apr 02 05:42	2°♃54'15		morning set	1812 Mar 15 02:26	15°♄37'29	
max. Earth dist.	1811 Apr 06 16:54	11°♃41'43	1.34200 AU	max. Earth dist.	1812 Mar 18 23:12	22°♄52'32	1.35765 AU
					1812 Mar 22 14:54	0°♃	
superior conj	1811 Apr 10 16:54	19°♃54'41	0°-46'-12				

superior conj	1812 Mar 24 10:59	3°♃40'22	-1°-13'-21	superior conj	1813 Mar 07 17:58	16°♃49'13	-1°-37'-41
minimum elong	1812 Mar 24 14:35	3°♃58'30	1°12'47	minimum elong	1813 Mar 07 22:13	17°♃09'44	1°37'12
evening rise	1812 Apr 01 10:57	20°♃01'54			1813 Mar 14 10:48	0°♃	
asc. node	1812 Apr 01 03:03	19°♃21'36		evening rise	1813 Mar 16 11:22	4°♃01'07	
	1812 Apr 06 11:45	0°♃		asc. node	1813 Mar 19 00:06	8°♃59'23	
evening max el	1812 Apr 19 09:09	19°♃05'46	20°08'35		1813 Apr 01 04:18	0°♃	
retrograde	1812 Apr 29 20:21	24°♃09'21		evening max el	1813 Apr 02 03:26	0°♃58'50	19°08'52
evening set	1812 May 01 21:21	23°♃58'39		retrograde	1813 Apr 10 23:05	5°♃15'05	
desc. node	1812 May 09 13:03	20°♃47'42		evening set	1813 Apr 13 02:10	5°♃01'12	
inferior conj	1812 May 10 21:30	19°♃59'52	0°-23'-36	inferior conj	1813 Apr 21 08:30	0°♃49'12	1°24'51
minimum elong	1812 May 10 20:24	20°♃01'30	0°23'13	minimum elong	1813 Apr 21 11:40	0°♃43'47	1°23'48
min. Earth dist.	1812 May 12 16:47	18°♃55'32	0.55276 AU		1813 Apr 22 13:14	30°♃	
morning rise	1812 May 19 16:58	15°♃39'40		min. Earth dist.	1813 Apr 24 07:53	28°♃48'18	0.56519 AU
direct	1812 May 23 16:42	15°♃05'00		desc. node	1813 Apr 26 10:05	27°♃30'35	
morning max el	1812 Jun 06 08:23	21°♃47'55	23°50'52	morning rise	1813 Apr 29 17:04	25°♃55'00	
	1812 Jun 13 11:48	0°♃		direct	1813 May 04 17:08	24°♃56'46	
asc. node	1812 Jun 28 02:19	24°♃58'24			1813 May 16 10:17	0°♃	
morning set	1812 Jun 30 12:21	29°♃59'05		morning max el	1813 May 18 22:52	2°♃14'57	25°29'13
	1812 Jun 30 12:32	0°♃			1813 Jun 07 11:49	0°♃	
				morning set	1813 Jun 15 00:06	14°♃54'59	
superior conj	1812 Jul 07 13:59	15°♃11'35	1°25'20	asc. node	1813 Jun 14 23:23	14°♃51'07	
minimum elong	1812 Jul 07 11:38	14°♃58'53	1°25'02		1813 Jun 21 23:08	0°♃	
max. Earth dist.	1812 Jul 09 16:47	19°♃44'08	1.33342 AU				
	1812 Jul 14 15:11	0°♃		superior conj	1813 Jun 22 00:25	0°♃07'03	1°08'16
evening rise	1812 Jul 15 01:43	0°♃53'05		minimum elong	1813 Jun 21 22:04	29°♃54'08	1°07'52
	1812 Jul 31 11:15	0°♃		max. Earth dist.	1813 Jun 23 00:51	2°♃20'39	1.32593 AU
desc. node	1812 Aug 05 12:22	7°♃24'17		evening rise	1813 Jun 29 03:27	15°♃22'26	
evening max el	1812 Aug 17 17:08	21°♃53'57	27°24'48		1813 Jul 06 15:17	0°♃	
retrograde	1812 Aug 31 07:27	29°♃11'40		desc. node	1813 Jul 23 09:24	26°♃04'13	
evening set	1812 Sep 07 10:57	26°♃32'00			1813 Jul 26 15:29	0°♃	
min. Earth dist.	1812 Sep 11 03:23	23°♃15'13	0.63878 AU	evening max el	1813 Jul 31 01:11	4°♃37'09	27°17'10
inferior conj	1812 Sep 13 15:46	20°♃39'08	-3°-14'-46	retrograde	1813 Aug 13 20:48	11°♃52'43	
minimum elong	1812 Sep 13 20:42	20°♃26'23	3°13'14	evening set	1813 Aug 21 01:01	9°♃28'15	
morning rise	1812 Sep 20 08:35	15°♃17'00		min. Earth dist.	1813 Aug 24 15:11	6°♃38'59	0.62069 AU
direct	1812 Sep 22 20:22	14°♃46'11		inferior conj	1813 Aug 27 15:20	3°♃53'23	-4°-5'-13
asc. node	1812 Sep 24 01:32	14°♃53'39		minimum elong	1813 Aug 27 20:35	3°♃41'16	4°04'01
morning max el	1812 Sep 29 09:21	18°♃11'54	17°54'08		1813 Sep 01 10:32	30°♃	
	1812 Oct 07 23:09	0°♃		morning rise	1813 Sep 03 18:54	28°♃51'12	
morning set	1812 Oct 16 04:35	13°♃57'31		direct	1813 Sep 06 04:11	28°♃26'23	
	1812 Oct 25 15:32	0°♃			1813 Sep 10 17:45	0°♃	
				asc. node	1813 Sep 10 22:36	0°♃08'22	
superior conj	1812 Oct 28 20:50	5°♃18'36	0°24'19	morning max el	1813 Sep 13 00:39	1°♃54'11	17°54'00
minimum elong	1812 Oct 28 23:27	5°♃29'16	0°23'57	morning set	1813 Sep 28 23:07	26°♃51'23	
desc. node	1812 Nov 01 11:42	11°♃10'49			1813 Sep 30 16:53	0°♃	
max. Earth dist.	1812 Nov 03 13:09	14°♃28'43	1.44299 AU				
	1812 Nov 13 11:03	0°♃		superior conj	1813 Oct 09 20:14	16°♃08'10	1°01'54
evening rise	1812 Nov 13 21:12	0°♃39'04		minimum elong	1813 Oct 10 00:50	16°♃27'53	1°01'20
	1812 Dec 03 15:21	0°♃		max. Earth dist.	1813 Oct 17 03:20	28°♃21'16	1.42925 AU
greatest brilliancy	1812 Dec 05 22:49	3°♃07'58	-0.5m		1813 Oct 18 03:34	0°♃	
evening max el	1812 Dec 11 21:59	10°♃16'34	20°33'05	desc. node	1813 Oct 19 08:44	1°♃57'55	
retrograde	1812 Dec 19 23:54	15°♃02'33		evening rise	1813 Oct 24 08:04	9°♃51'45	
asc. node	1812 Dec 21 00:48	14°♃56'31			1813 Nov 06 15:33	0°♃	
evening set	1812 Dec 23 19:30	13°♃38'34		greatest brilliancy	1813 Nov 19 22:51	18°♃16'37	-0.4m
inferior conj	1812 Dec 29 06:08	7°♃28'08	2°32'02	evening max el	1813 Nov 24 18:45	23°♃47'00	21°44'50
minimum elong	1812 Dec 29 03:32	7°♃37'02	2°31'14	retrograde	1813 Dec 03 20:55	29°♃11'37	
min. Earth dist.	1812 Dec 29 21:02	6°♃37'25	0.67293 AU	evening set	1813 Dec 08 03:18	27°♃31'37	
morning rise	1813 Jan 03 11:06	1°♃12'58		asc. node	1813 Dec 07 21:51	27°♃42'07	
	1813 Jan 05 01:16	30°♃		inferior conj	1813 Dec 13 12:49	21°♃12'07	1°50'04
direct	1813 Jan 09 00:08	28°♃46'53		minimum elong	1813 Dec 13 10:36	21°♃19'46	1°49'16
	1813 Jan 13 08:32	0°♃		min. Earth dist.	1813 Dec 13 16:01	21°♃01'03	0.67724 AU
morning max el	1813 Jan 20 05:51	5°♃29'00	24°25'09	morning rise	1813 Dec 18 17:41	14°♃57'47	
desc. node	1813 Jan 28 10:56	15°♃02'49		direct	1813 Dec 23 15:26	12°♃53'23	
	1813 Feb 08 04:37	0°♃		morning max el	1814 Jan 02 15:31	18°♃49'20	22°56'39
morning set	1813 Feb 25 03:17	27°♃18'38		greatest brilliancy	1814 Jan 07 09:12	24°♃06'41	-0.3m
	1813 Feb 26 15:58	0°♃			1814 Jan 12 00:21	0°♃	
max. Earth dist.	1813 Feb 28 20:45	3°♃56'28	1.37716 AU	desc. node	1814 Jan 15 07:58	4°♃30'18	
					1814 Feb 01 08:38	0°♃	

morning set	1814 Feb 06 01:59	7° \approx 41'10		1815 Jan 05 23:27	0° \approx	
max. Earth dist.	1814 Feb 10 16:04	15° \approx 25'54	1.39857 AU	morning set	1815 Jan 16 19:36	16° \approx 41'23
superior conj	1814 Feb 18 09:29	29° \approx 09'25	-1°-56'-10	max. Earth dist.	1815 Jan 23 15:58	27° \approx 45'51 1.41919 AU
minimum elong	1814 Feb 18 12:59	29° \approx 25'32	1°55'57		1815 Jan 25 00:20	0° \approx
evening rise	1814 Feb 18 20:30	0° \approx		superior conj	1815 Jan 31 04:28	10° \approx 29'38 -2°-4'-36
asc. node	1814 Mar 05 21:09	17° \approx 28'35		minimum elong	1815 Jan 31 04:57	10° \approx 31'42 2°04'37
	1814 Mar 06 20:29	0° \approx		evening rise	1815 Feb 11 05:30	0° \approx 16'29
evening max el	1814 Mar 16 06:51	13° \approx 26'27	18°29'22		1815 Feb 11 01:53	0° \approx
retrograde	1814 Mar 23 20:31	17° \approx 09'50		asc. node	1815 Feb 20 18:11	17° \approx 05'09
evening set	1814 Mar 26 04:54	16° \approx 49'26		evening max el	1815 Feb 27 16:18	26° \approx 20'34 18°09'49
inferior conj	1814 Apr 02 16:25	12° \approx 17'57	2°42'12	retrograde	1815 Mar 06 11:27	29° \approx 47'07
minimum elong	1814 Apr 02 20:23	12° \approx 10'02	2°41'14	evening set	1815 Mar 09 01:14	29° \approx 18'00
min. Earth dist.	1814 Apr 06 02:46	9° \approx 34'58	0.58376 AU	inferior conj	1815 Mar 15 20:44	24° \approx 25'20 3°26'17
morning rise	1814 Apr 10 07:41	6° \approx 52'18		minimum elong	1815 Mar 15 23:13	24° \approx 19'35 3°25'58
desc. node	1814 Apr 13 07:08	5° \approx 43'15		min. Earth dist.	1815 Mar 19 03:41	21° \approx 23'54 0.60507 AU
direct	1814 Apr 16 07:37	5° \approx 19'33		morning rise	1815 Mar 22 17:57	18° \approx 38'03
morning max el	1814 Apr 30 16:49	12° \approx 59'53	26°48'53	direct	1815 Mar 29 10:20	16° \approx 29'05
	1814 May 14 02:41	0° \approx		desc. node	1815 Mar 31 04:10	16° \approx 37'29
morning set	1814 May 30 10:19	29° \approx 45'25		morning max el	1815 Apr 12 16:44	24° \approx 20'57 27°37'18
	1814 May 30 13:06	0° \approx			1815 Apr 17 19:59	0° \approx
asc. node	1814 Jun 01 20:26	4° \approx 54'20			1815 May 07 08:51	0° \approx
superior conj	1814 Jun 06 12:10	15° \approx 04'43	0°47'27	morning set	1815 May 14 17:10	14° \approx 23'42
minimum elong	1814 Jun 06 10:16	14° \approx 54'16	0°47'05	asc. node	1815 May 19 17:28	25° \approx 02'54
max. Earth dist.	1814 Jun 06 12:39	15° \approx 07'23	1.32227 AU	max. Earth dist.	1815 May 21 00:27	27° \approx 51'51 1.32248 AU
evening rise	1814 Jun 13 10:42	0° \approx 06'56		superior conj	1815 May 21 23:30	29° \approx 58'06 0°23'37
	1814 Jun 13 09:23	0° \approx		minimum elong	1815 May 21 22:27	29° \approx 52'20 0°23'23
	1814 Jun 29 20:01	0° \approx			1815 May 21 23:51	0° \approx
desc. node	1814 Jul 10 06:24	13° \approx 41'43		evening rise	1815 May 28 21:12	14° \approx 58'38
evening max el	1814 Jul 13 03:21	16° \approx 37'45	26°36'27		1815 Jun 05 09:41	0° \approx
retrograde	1814 Jul 27 02:43	23° \approx 50'59		evening max el	1815 Jun 24 22:31	27° \approx 52'05 25°25'37
evening set	1814 Aug 02 20:37	21° \approx 55'16		desc. node	1815 Jun 27 03:26	29° \approx 50'23
min. Earth dist.	1814 Aug 06 16:51	19° \approx 19'16	0.60038 AU		1815 Jun 27 08:05	0° \approx
inferior conj	1814 Aug 10 00:03	16° \approx 40'16	-4°-42'-55	retrograde	1815 Jul 08 23:01	5° \approx 00'27
minimum elong	1814 Aug 10 03:50	16° \approx 32'38	4°42'27	evening set	1815 Jul 14 17:16	3° \approx 42'58
morning rise	1814 Aug 17 14:22	12° \approx 00'41		min. Earth dist.	1815 Jul 19 10:33	1° \approx 01'42 0.58001 AU
direct	1814 Aug 19 23:54	11° \approx 39'28			1815 Jul 20 22:24	30° \approx
morning max el	1814 Aug 27 12:04	15° \approx 18'47	18°13'07	inferior conj	1815 Jul 22 14:23	28° \approx 49'35 -4°-57'-6
asc. node	1814 Aug 28 19:39	16° \approx 40'44		minimum elong	1815 Jul 22 14:11	28° \approx 49'56 4°57'07
	1814 Sep 06 16:44	0° \approx		morning rise	1815 Jul 30 14:48	24° \approx 32'40
morning set	1814 Sep 12 08:37	10° \approx 28'34		direct	1815 Aug 02 03:07	24° \approx 13'15
superior conj	1814 Sep 21 20:59	28° \approx 12'43	1°27'20	morning max el	1815 Aug 10 16:20	28° \approx 15'16 18°52'46
minimum elong	1814 Sep 22 00:48	28° \approx 29'57	1°26'58		1815 Aug 12 08:57	0° \approx
	1814 Sep 22 20:46	0° \approx		asc. node	1815 Aug 15 16:42	4° \approx 14'38
max. Earth dist.	1814 Sep 29 11:40	11° \approx 33'50	1.41101 AU	morning set	1815 Aug 27 04:38	24° \approx 36'13
evening rise	1814 Oct 04 11:37	19° \approx 52'11			1815 Aug 29 22:28	0° \approx
desc. node	1814 Oct 06 05:46	22° \approx 42'32		superior conj	1815 Sep 04 17:34	11° \approx 15'46 1°41'23
	1814 Oct 10 20:43	0° \approx		minimum elong	1815 Sep 04 19:32	11° \approx 25'07 1°41'17
	1814 Nov 01 00:11	0° \approx		max. Earth dist.	1815 Sep 11 15:44	24° \approx 02'49 1.39067 AU
greatest brilliancy	1814 Nov 01 19:32	0° \approx 59'42	-0.2m		1815 Sep 15 01:15	0° \approx
evening max el	1814 Nov 07 10:36	7° \approx 19'48	23°03'31	evening rise	1815 Sep 15 14:57	0° \approx 58'50
retrograde	1814 Nov 17 15:31	13° \approx 23'03		desc. node	1815 Sep 23 02:46	13° \approx 20'10
evening set	1814 Nov 22 10:26	11° \approx 26'06			1815 Oct 04 04:28	0° \approx
asc. node	1814 Nov 24 18:53	9° \approx 02'44		evening max el	1815 Oct 20 23:31	20° \approx 56'18 24°23'13
min. Earth dist.	1814 Nov 27 12:46	5° \approx 27'27	0.67808 AU	retrograde	1815 Nov 01 06:23	27° \approx 32'31
inferior conj	1814 Nov 27 20:18	5° \approx 01'28	1°02'06	evening set	1815 Nov 06 15:16	25° \approx 18'39
minimum elong	1814 Nov 27 18:54	5° \approx 06'16	1°01'32	min. Earth dist.	1815 Nov 11 08:46	19° \approx 53'38 0.67558 AU
	1814 Dec 01 20:40	30° \approx		asc. node	1815 Nov 11 15:54	19° \approx 29'45
morning rise	1814 Dec 03 03:23	28° \approx 50'06		inferior conj	1815 Nov 12 02:47	18° \approx 53'13 0°09'22
direct	1814 Dec 07 10:27	27° \approx 08'30		minimum elong	1815 Nov 12 02:33	18° \approx 53'59 0°09'16
	1814 Dec 13 17:45	0° \approx		transit begin	1815 Nov 12 00:18	19° \approx 01'32
morning max el	1814 Dec 16 05:44	2° \approx 17'34	21°31'45	transit end	1815 Nov 12 04:48	18° \approx 46'26
greatest brilliancy	1814 Dec 21 05:57	7° \approx 59'33	-0.4m	morning rise	1815 Nov 17 14:11	12° \approx 47'20
desc. node	1815 Jan 02 05:01	24° \approx 25'44		direct	1815 Nov 21 07:58	11° \approx 27'11
				morning max el	1815 Nov 29 03:10	15° \approx 55'56 20°17'00

greatest brilliancy	1815 Dec 05 17:52	23°♄51'09	-0.6m	asc. node	1816 Oct 28 12:57	29°♁57'00	
	1815 Dec 10 04:07	0°♁		morning rise	1816 Nov 01 00:08	26°♁47'11	
desc. node	1815 Dec 20 02:04	14°♁41'01		direct	1816 Nov 04 06:32	25°♁45'37	
morning set	1815 Dec 26 17:20	24°♁50'52		morning max el	1816 Nov 11 08:20	29°♁44'09	19°16'08
	1815 Dec 30 00:51	0°♁			1816 Nov 11 14:34	0°♄	
max. Earth dist.	1816 Jan 05 23:51	11°♁01'02	1.43616 AU	greatest brilliancy	1816 Nov 21 09:07	12°♄48'23	-0.7m
					1816 Dec 02 15:15	0°♁	
superior conj	1816 Jan 11 22:13	20°♁39'51	-1°-58'-4	morning set	1816 Dec 04 18:54	3°♁20'34	
minimum elong	1816 Jan 11 17:27	20°♁20'14	1°57'51	desc. node	1816 Dec 05 23:05	5°♁10'09	
	1816 Jan 17 12:13	0°♁		max. Earth dist.	1816 Dec 18 14:43	24°♁58'10	1.44731 AU
evening rise	1816 Jan 24 15:26	12°♁16'27					
	1816 Feb 04 01:31	0°♁		superior conj	1816 Dec 21 14:20	29°♁41'44	-1°-32'-46
asc. node	1816 Feb 07 15:12	5°♁17'50		minimum elong	1816 Dec 21 05:38	29°♁07'12	1°31'57
evening max el	1816 Feb 11 04:38	9°♁32'43	18°09'40		1816 Dec 21 18:56	0°♁	
retrograde	1816 Feb 17 15:58	12°♁57'03		evening rise	1817 Jan 05 04:19	23°♁20'53	
evening set	1816 Feb 20 10:47	12°♁17'58			1817 Jan 09 04:42	0°♁	
inferior conj	1816 Feb 26 17:55	7°♁04'28	3°43'16	evening max el	1817 Jan 24 16:55	22°♁54'44	18°28'13
minimum elong	1816 Feb 26 18:22	7°♁03'15	3°43'16	asc. node	1817 Jan 24 12:14	22°♁42'44	
min. Earth dist.	1816 Feb 29 12:47	4°♁09'20	0.62591 AU	retrograde	1817 Jan 31 05:42	26°♁29'41	
morning rise	1816 Mar 03 23:46	1°♁04'02		evening set	1817 Feb 03 05:47	25°♁39'44	
	1816 Mar 05 14:17	30°♁		inferior conj	1817 Feb 09 03:54	20°♁06'52	3°40'05
direct	1816 Mar 10 22:28	28°♁27'53		minimum elong	1817 Feb 09 02:42	20°♁10'22	3°39'59
	1816 Mar 16 15:59	0°♁		min. Earth dist.	1817 Feb 11 07:24	17°♁36'46	0.64403 AU
desc. node	1816 Mar 17 01:13	0°♁12'05		morning rise	1817 Feb 14 22:14	13°♁58'37	
morning max el	1816 Mar 24 22:16	6°♁23'11	27°48'48	direct	1817 Feb 21 18:04	11°♁09'18	
	1816 Apr 11 20:30	0°♁		desc. node	1817 Mar 03 22:16	15°♁53'37	
morning set	1816 Apr 27 18:35	28°♁42'49		morning max el	1817 Mar 07 07:16	19°♁00'08	27°24'24
	1816 Apr 28 09:47	0°♁			1817 Mar 16 15:25	0°♁	
max. Earth dist.	1816 May 03 08:27	10°♁21'14	1.32671 AU		1817 Apr 04 19:17	0°♁	
				morning set	1817 Apr 11 11:50	12°♁33'37	
superior conj	1816 May 05 08:43	14°♁41'22	0°-2'-32	max. Earth dist.	1817 Apr 16 08:47	22°♁23'09	1.33519 AU
minimum elong	1816 May 05 08:50	14°♁42'01	0°02'32				
behind sun begin	1816 May 05 03:42	14°♁14'11		superior conj	1817 Apr 19 13:53	29°♁07'29	0°-30'-7
behind sun end	1816 May 05 13:59	15°♁09'52		minimum elong	1817 Apr 19 15:23	29°♁15'28	0°29'49
asc. node	1816 May 05 14:30	15°♁12'41			1817 Apr 19 23:47	0°♁	
evening rise	1816 May 12 09:01	29°♁50'51		asc. node	1817 Apr 22 11:31	5°♁18'58	
	1816 May 12 10:44	0°♁		evening rise	1817 Apr 26 20:17	14°♁36'27	
	1816 May 29 06:33	0°♁			1817 May 04 15:27	0°♁	
evening max el	1816 Jun 05 12:48	8°♁31'17	23°54'44	evening max el	1817 May 18 04:23	19°♁01'28	22°18'45
desc. node	1816 Jun 13 00:25	13°♁56'31		retrograde	1817 May 31 02:43	25°♁25'10	
retrograde	1816 Jun 19 07:01	15°♁25'49		desc. node	1817 May 30 21:26	25°♁25'03	
evening set	1816 Jun 23 15:13	14°♁44'15		evening set	1817 Jun 03 01:48	25°♁05'47	
min. Earth dist.	1816 Jun 29 23:30	11°♁41'38	0.56267 AU	min. Earth dist.	1817 Jun 11 10:58	21°♁28'58	0.55163 AU
inferior conj	1816 Jul 02 08:30	10°♁14'32	-4°-33'-48	inferior conj	1817 Jun 12 09:12	20°♁57'36	-3°-22'-58
minimum elong	1816 Jul 02 03:00	10°♁23'00	4°33'01	minimum elong	1817 Jun 12 01:22	21°♁08'40	3°20'47
morning rise	1816 Jul 10 18:14	6°♁16'03		morning rise	1817 Jun 21 03:03	17°♁05'51	
direct	1816 Jul 13 11:24	5°♁57'04		direct	1817 Jun 24 02:59	16°♁45'36	
morning max el	1816 Jul 23 10:34	10°♁34'19	19°53'47	morning max el	1817 Jul 05 17:24	22°♁09'53	21°15'15
asc. node	1816 Aug 01 13:44	22°♁36'26			1817 Jul 12 09:31	0°♁	
	1816 Aug 05 16:57	0°♁		asc. node	1817 Jul 19 10:47	11°♁34'31	
morning set	1816 Aug 10 07:55	9°♁05'53		morning set	1817 Jul 25 15:59	23°♁50'40	
					1817 Jul 28 14:49	0°♁	
superior conj	1816 Aug 18 04:42	25°♁02'35	1°45'52				
minimum elong	1816 Aug 18 04:49	25°♁03'11	1°45'52	superior conj	1817 Aug 02 02:09	9°♁20'58	1°42'37
	1816 Aug 20 17:00	0°♁		minimum elong	1817 Aug 02 00:52	9°♁14'20	1°42'34
max. Earth dist.	1816 Aug 23 20:22	6°♁01'40	1.37077 AU	max. Earth dist.	1817 Aug 06 06:56	17°♁53'36	1.35328 AU
evening rise	1816 Aug 27 17:16	13°♁10'18		evening rise	1817 Aug 10 14:19	26°♁16'03	
	1816 Sep 06 14:31	0°♁			1817 Aug 12 14:14	0°♁	
desc. node	1816 Sep 08 23:46	3°♁46'18		desc. node	1817 Aug 26 20:46	23°♁55'23	
	1816 Sep 28 03:39	0°♁			1817 Aug 31 00:12	0°♁	
evening max el	1816 Oct 02 11:30	4°♁35'48	25°36'43	evening max el	1817 Sep 14 23:39	18°♁13'31	26°36'25
retrograde	1816 Oct 14 16:36	11°♁35'40		retrograde	1817 Sep 27 21:46	25°♁27'09	
evening set	1816 Oct 20 16:02	9°♁06'33		evening set	1817 Oct 04 10:50	22°♁47'07	
min. Earth dist.	1816 Oct 25 01:37	4°♁17'06	0.66978 AU	min. Earth dist.	1817 Oct 08 12:55	18°♁34'42	0.66052 AU
inferior conj	1816 Oct 26 06:30	2°♁44'43	0°-46'-49	inferior conj	1817 Oct 10 05:34	16°♁33'10	-1°-44'-52
minimum elong	1816 Oct 26 07:43	2°♁40'50	0°46'18	minimum elong	1817 Oct 10 08:21	16°♁24'49	1°43'46
	1816 Oct 28 11:55	30°♁		asc. node	1817 Oct 15 10:01	11°♁19'22	

morning rise	1817 Oct 16 07:09	10°♁47'02		minimum elong	1818 Sep 24 01:59	0°♁01'52	2°41'15
direct	1817 Oct 19 04:19	10°♁00'26			1818 Sep 24 02:40	30°♁	
morning max el	1817 Oct 25 19:51	13°♁39'13	18°31'00	morning rise	1818 Sep 30 08:41	24°♁41'55	
	1817 Nov 06 15:41	0°♁		asc. node	1818 Oct 02 07:04	24°♁08'51	
morning set	1817 Nov 14 20:50	13°♁06'56		direct	1818 Oct 02 23:01	24°♁06'30	
desc. node	1817 Nov 22 20:05	25°♁49'03		morning max el	1818 Oct 09 11:08	27°♁34'47	18°02'34
	1817 Nov 25 11:34	0°♁			1818 Oct 11 15:05	0°♁	
superior conj	1817 Nov 30 15:58	8°♁09'31	0°-50'-42	morning set	1818 Oct 27 03:44	24°♁18'24	
minimum elong	1817 Nov 30 09:32	7°♁44'12	0°49'54		1818 Oct 30 13:35	0°♁	
max. Earth dist.	1817 Dec 01 09:22	9°♁17'50	1.45137 AU	desc. node	1818 Nov 09 17:06	16°♁33'41	
	1817 Dec 14 13:10	0°♁		superior conj	1818 Nov 10 00:17	17°♁02'28	0°-2'-1
evening rise	1817 Dec 16 17:49	3°♁28'18		minimum elong	1818 Nov 10 00:02	17°♁01'28	0°01'59
	1818 Jan 02 22:34	0°♁		behind sun begin	1818 Nov 09 13:31	16°♁19'19	
evening max el	1818 Jan 08 02:45	6°♁21'59	19°04'27	behind sun end	1818 Nov 10 10:34	17°♁43'34	
asc. node	1818 Jan 11 09:17	9°♁06'49		max. Earth dist.	1818 Nov 14 04:04	23°♁39'03	1.44804 AU
retrograde	1818 Jan 15 00:54	10°♁18'17			1818 Nov 18 05:01	0°♁	
evening set	1818 Jan 18 07:14	9°♁16'23		evening rise	1818 Nov 26 10:43	12°♁47'41	
inferior conj	1818 Jan 23 23:10	3°♁26'37	3°22'04		1818 Dec 07 16:42	0°♁	
minimum elong	1818 Jan 23 20:57	3°♁33'40	3°21'40	greatest brilliancy	1818 Dec 15 05:50	11°♁01'22	-0.6m
min. Earth dist.	1818 Jan 25 11:22	1°♁32'12	0.65839 AU	evening max el	1818 Dec 22 08:14	19°♁50'55	19°56'47
	1818 Jan 26 17:44	30°♁		asc. node	1818 Dec 29 06:21	24°♁14'42	
morning rise	1818 Jan 29 09:43	27°♁13'42		retrograde	1818 Dec 29 22:32	24°♁17'14	
direct	1818 Feb 04 20:15	24°♁25'11		evening set	1819 Jan 02 12:40	23°♁01'56	
	1818 Feb 15 14:43	0°♁		inferior conj	1819 Jan 08 00:42	16°♁58'08	2°52'53
morning max el	1818 Feb 17 17:12	2°♁00'50	26°29'54	minimum elong	1819 Jan 07 22:04	17°♁06'55	2°52'11
desc. node	1818 Feb 18 19:19	3°♁08'06		min. Earth dist.	1819 Jan 08 22:58	15°♁43'47	0.66872 AU
	1818 Mar 10 18:59	0°♁		morning rise	1819 Jan 13 06:49	10°♁43'02	
morning set	1818 Mar 25 17:25	25°♁45'40		direct	1819 Jan 19 04:17	8°♁06'19	
	1818 Mar 27 22:43	0°♁		morning max el	1819 Jan 31 02:06	15°♁12'31	25°14'13
max. Earth dist.	1818 Mar 29 22:10	3°♁51'49	1.34818 AU	desc. node	1819 Feb 05 16:21	21°♁28'14	
					1819 Feb 12 06:04	0°♁	
superior conj	1818 Apr 03 12:48	13°♁10'08	0°-57'-54		1819 Mar 03 15:59	0°♁	
minimum elong	1818 Apr 03 15:42	13°♁25'05	0°57'23	morning set	1819 Mar 08 06:30	8°♁05'02	
asc. node	1818 Apr 09 08:34	25°♁17'51		max. Earth dist.	1819 Mar 11 23:56	14°♁55'03	1.36549 AU
evening rise	1818 Apr 11 05:07	29°♁09'20					
	1818 Apr 11 14:57	0°♁		superior conj	1819 Mar 18 02:37	26°♁41'21	-1°-24'-11
evening max el	1818 Apr 30 04:30	29°♁53'38	20°51'26	minimum elong	1819 Mar 18 06:36	27°♁01'06	1°23'37
	1818 Apr 30 07:08	0°♁			1819 Mar 19 18:32	0°♁	
retrograde	1818 May 11 16:03	5°♁28'47		evening rise	1819 Mar 26 09:20	13°♁22'52	
evening set	1818 May 13 20:02	5°♁17'36		asc. node	1819 Mar 27 05:38	15°♁04'58	
desc. node	1818 May 17 18:30	4°♁06'03			1819 Apr 04 04:36	0°♁	
inferior conj	1818 May 23 02:56	1°♁19'49	-1°-33'-2	evening max el	1819 Apr 12 16:27	11°♁24'48	19°40'50
minimum elong	1818 May 22 22:33	1°♁26'04	1°31'28	retrograde	1819 Apr 22 10:21	16°♁06'58	
min. Earth dist.	1818 May 23 23:24	0°♁50'41	0.54952 AU	evening set	1819 Apr 24 11:11	15°♁55'35	
	1818 May 25 11:38	30°♁		inferior conj	1819 May 03 04:21	11°♁52'44	0°25'21
morning rise	1818 Jun 01 00:17	27°♁15'04		minimum elong	1819 May 03 05:27	11°♁51'01	0°24'56
direct	1818 Jun 04 12:25	26°♁48'35		desc. node	1819 May 04 15:32	10°♁57'24	
	1818 Jun 13 18:46	0°♁		min. Earth dist.	1819 May 05 13:43	10°♁23'02	0.55702 AU
morning max el	1818 Jun 17 14:12	3°♁04'58	22°52'06	morning rise	1819 May 11 20:13	7°♁18'08	
	1818 Jul 05 19:43	0°♁		direct	1819 May 16 05:42	6°♁34'59	
asc. node	1818 Jul 06 07:50	0°♁59'33		morning max el	1819 May 30 05:18	13°♁35'36	24°33'56
morning set	1818 Jul 10 02:50	8°♁44'12			1819 Jun 11 23:45	0°♁	
				asc. node	1819 Jun 23 04:53	20°♁44'24	
superior conj	1818 Jul 17 06:35	24°♁00'22	1°33'09	morning set	1819 Jun 24 14:45	23°♁41'23	
minimum elong	1818 Jul 17 04:27	23°♁49'04	1°32'57		1819 Jun 27 13:30	0°♁	
max. Earth dist.	1818 Jul 20 02:24	29°♁58'18	1.33946 AU				
	1818 Jul 20 02:44	0°♁		superior conj	1819 Jul 01 15:28	8°♁52'51	1°18'37
evening rise	1818 Jul 25 01:30	10°♁03'21		minimum elong	1819 Jul 01 13:03	8°♁39'43	1°18'16
	1818 Aug 04 23:55	0°♁		max. Earth dist.	1819 Jul 03 06:30	12°♁24'13	1.32972 AU
desc. node	1818 Aug 13 17:47	13°♁39'15		evening rise	1819 Jul 08 22:55	24°♁21'11	
	1818 Aug 26 19:19	0°♁			1819 Jul 11 18:50	0°♁	
evening max el	1818 Aug 28 11:33	1°♁39'45	27°14'53		1819 Jul 29 14:20	0°♁	
retrograde	1818 Sep 10 21:28	8°♁58'34		desc. node	1819 Jul 31 14:50	2°♁47'17	
evening set	1818 Sep 17 21:09	6°♁15'28		evening max el	1819 Aug 10 21:48	14°♁43'19	27°25'33
min. Earth dist.	1818 Sep 21 16:30	2°♁39'29	0.64769 AU	retrograde	1819 Aug 24 15:04	22°♁01'03	
inferior conj	1818 Sep 23 21:42	0°♁13'36	-2°-42'-45	evening set	1819 Aug 31 19:48	19°♁26'13	

min. Earth dist.	1819 Sep 04 10:35	16° Υ 22'15	0.63142 AU	evening set	1820 Aug 13 02:34	2° Υ 11'04	
inferior conj	1819 Sep 07 04:15	13° Υ 40'18	-3°-37'-15		1820 Aug 16 03:10	30° Ω	
minimum elong	1819 Sep 07 09:29	13° Υ 27'23	3°35'47	min. Earth dist.	1820 Aug 16 18:09	29° Ω 29'11	0.61226 AU
morning rise	1819 Sep 14 01:37	8° Υ 26'16		inferior conj	1820 Aug 19 21:57	26° Ω 44'24	-4°-23'-19
direct	1819 Sep 16 11:51	7° Υ 58'30		minimum elong	1820 Aug 20 02:51	26° Ω 33'41	4°22'24
asc. node	1819 Sep 19 04:06	8° Υ 33'02		morning rise	1820 Aug 27 06:06	21° Ω 51'12	
morning max el	1819 Sep 23 03:17	11° Υ 24'23	17°51'43	direct	1820 Aug 29 15:08	21° Ω 28'09	
	1819 Oct 05 15:42	0° Ω		asc. node	1820 Sep 05 01:08	24° Ω 22'22	
morning set	1819 Oct 09 11:09	6° Ω 40'47		morning max el	1820 Sep 05 17:14	24° Ω 59'53	17°59'36
					1820 Sep 09 20:57	0° Υ	
superior conj	1819 Oct 21 07:54	27° Ω 05'40	0°41'40	morning set	1820 Sep 21 12:41	19° Υ 55'06	
minimum elong	1819 Oct 21 11:49	27° Ω 21'55	0°41'09		1820 Sep 27 00:42	0° Ω	
	1819 Oct 23 01:56	0° Υ					
max. Earth dist.	1819 Oct 27 20:15	7° Υ 45'41	1.43785 AU	superior conj	1820 Oct 01 18:35	8° Ω 28'25	1°14'11
desc. node	1819 Oct 27 14:08	7° Υ 21'06		minimum elong	1820 Oct 01 23:05	8° Ω 48'08	1°13'40
evening rise	1819 Nov 05 18:51	21° Υ 50'43		max. Earth dist.	1820 Oct 09 08:09	21° Ω 23'13	1.42199 AU
	1819 Nov 11 02:47	0° Υ		desc. node	1820 Oct 13 11:11	28° Ω 07'47	
greatest brilliancy	1819 Nov 29 23:54	27° Υ 05'54	-0.5m		1820 Oct 14 15:10	0° Υ	
	1819 Dec 02 08:06	0° Υ		evening rise	1820 Oct 15 11:21	1° Υ 20'24	
evening max el	1819 Dec 05 08:18	3° Υ 21'08	21°02'30		1820 Nov 03 15:17	0° Υ	
retrograde	1819 Dec 13 20:12	8° Υ 23'17		greatest brilliancy	1820 Nov 12 09:37	11° Υ 34'27	-0.3m
asc. node	1819 Dec 16 03:24	7° Υ 53'47		evening max el	1820 Nov 17 02:57	16° Υ 53'12	22°17'50
evening set	1819 Dec 17 20:05	6° Υ 52'54		retrograde	1820 Nov 26 16:12	22° Υ 33'56	
inferior conj	1819 Dec 23 06:04	0° Υ 38'19	2°15'02	evening set	1820 Dec 01 03:46	20° Υ 46'52	
minimum elong	1819 Dec 23 03:34	0° Υ 46'55	2°14'13	asc. node	1820 Dec 02 00:24	20° Υ 01'17	
	1819 Dec 23 17:13	30° Υ		inferior conj	1820 Dec 06 13:17	14° Υ 24'58	1°30'22
min. Earth dist.	1819 Dec 23 15:56	0° Υ 04'24	0.67521 AU	minimum elong	1820 Dec 06 11:23	14° Υ 31'35	1°29'38
morning rise	1819 Dec 28 10:40	24° Υ 23'05		min. Earth dist.	1820 Dec 06 11:53	14° Υ 29'50	0.67806 AU
direct	1820 Jan 02 17:16	22° Υ 05'36		morning rise	1820 Dec 11 18:50	8° Υ 11'45	
morning max el	1820 Jan 13 10:29	28° Υ 28'56	23°47'28	direct	1820 Dec 16 10:20	6° Υ 16'53	
	1820 Jan 14 21:21	0° Υ		morning max el	1820 Dec 25 21:31	11° Υ 51'53	22°19'38
desc. node	1820 Jan 23 13:23	10° Υ 35'11		greatest brilliancy	1820 Dec 30 11:39	17° Υ 00'10	-0.3m
	1820 Feb 06 00:14	0° Υ			1821 Jan 09 05:56	0° Υ	
morning set	1820 Feb 17 20:54	19° Υ 14'14		desc. node	1821 Jan 09 10:25	0° Υ 15'55	
max. Earth dist.	1820 Feb 21 18:57	26° Υ 03'03	1.38612 AU	morning set	1821 Jan 28 07:05	29° Υ 00'37	
	1820 Feb 23 23:58	0° Υ			1821 Jan 28 21:41	0° Υ	
				max. Earth dist.	1821 Feb 02 15:51	7° Υ 53'35	1.40764 AU
superior conj	1820 Feb 29 03:35	9° Υ 30'58	-1°-46'-28				
minimum elong	1820 Feb 29 07:45	9° Υ 50'37	1°46'06	superior conj	1821 Feb 10 11:04	21° Υ 27'41	-2°-1'-16
evening rise	1820 Mar 09 06:15	27° Υ 09'09		minimum elong	1821 Feb 10 13:36	21° Υ 39'05	2°01'11
	1820 Mar 10 17:23	0° Υ			1821 Feb 15 03:39	0° Υ	
asc. node	1820 Mar 13 02:42	4° Υ 34'31		evening rise	1821 Feb 20 16:44	10° Υ 20'59	
evening max el	1820 Mar 25 15:04	23° Υ 34'00	18°49'43	asc. node	1821 Feb 27 23:45	23° Υ 40'31	
retrograde	1820 Apr 02 20:24	27° Υ 33'51			1821 Mar 03 21:34	0° Υ	
evening set	1820 Apr 05 01:44	27° Υ 17'28		evening max el	1821 Mar 08 21:28	6° Υ 14'06	18°18'38
inferior conj	1820 Apr 12 23:55	22° Υ 57'58	2°01'52	retrograde	1821 Mar 16 01:39	9° Υ 48'14	
minimum elong	1820 Apr 13 03:49	22° Υ 50'52	2°00'42	evening set	1821 Mar 18 12:32	9° Υ 24'10	
min. Earth dist.	1820 Apr 16 06:13	20° Υ 36'37	0.57251 AU	inferior conj	1821 Mar 25 16:46	4° Υ 43'28	3°04'39
desc. node	1820 Apr 20 12:35	18° Υ 04'20		minimum elong	1821 Mar 25 20:16	4° Υ 36'01	3°03'59
morning rise	1820 Apr 21 01:34	17° Υ 49'41		min. Earth dist.	1821 Mar 29 03:00	1° Υ 49'51	0.59272 AU
direct	1820 Apr 26 12:37	16° Υ 37'23			1821 Mar 31 14:15	30° Υ	
morning max el	1820 May 10 20:28	24° Υ 06'33	26°06'10	morning rise	1821 Apr 02 00:14	29° Υ 07'44	
	1820 May 16 05:05	0° Υ		desc. node	1821 Apr 07 09:36	27° Υ 21'45	
	1820 Jun 03 21:02	0° Υ		direct	1821 Apr 08 08:24	27° Υ 19'20	
morning set	1820 Jun 08 02:01	8° Υ 35'39			1821 Apr 16 10:45	0° Υ	
asc. node	1820 Jun 09 01:56	10° Υ 42'17		morning max el	1821 Apr 22 16:40	5° Υ 04'40	27°13'52
					1821 May 11 02:28	0° Υ	
superior conj	1820 Jun 15 02:40	23° Υ 50'13	0°59'53	morning set	1821 May 23 11:01	23° Υ 21'29	
minimum elong	1820 Jun 15 00:27	23° Υ 38'02	0°59'28		1821 May 26 14:03	0° Υ	
max. Earth dist.	1820 Jun 15 16:35	25° Υ 06'35	1.32394 AU	asc. node	1821 May 26 22:59	0° Υ 48'16	
	1820 Jun 17 22:17	0° Υ		max. Earth dist.	1821 May 30 04:59	7° Υ 54'33	1.32195 AU
evening rise	1820 Jun 22 03:19	8° Υ 58'24					
	1820 Jul 03 03:48	0° Ω		superior conj	1821 May 30 14:25	8° Υ 46'26	0°37'41
desc. node	1820 Jul 17 11:52	21° Ω 03'31		minimum elong	1821 May 30 12:50	8° Υ 37'42	0°37'21
evening max el	1820 Jul 23 03:52	27° Ω 10'25	27°03'54	evening rise	1821 Jun 06 12:10	23° Υ 46'49	
	1820 Jul 26 10:30	0° Υ			1821 Jun 09 12:23	0° Υ	
retrograde	1820 Aug 06 01:24	4° Υ 24'28			1821 Jun 27 09:02	0° Ω	

desc. node	1821 Jul 04 08:52	8°♊06'48		evening rise	1822 May 21 23:26	8°♋39'08	
evening max el	1821 Jul 05 03:09	8°♊51'13	26°09'29		1822 Jun 02 01:17	0°♌	
retrograde	1821 Jul 19 03:00	16°♊01'58		evening max el	1822 Jun 16 19:30	19°♌47'28	24°48'32
evening set	1821 Jul 25 12:43	14°♊21'55		desc. node	1822 Jun 21 05:52	23°♌27'57	
min. Earth dist.	1821 Jul 29 15:50	11°♊46'06	0.59166 AU	retrograde	1822 Jun 30 18:26	26°♌52'08	
inferior conj	1821 Aug 01 23:11	9°♊16'18	-4°-52'-34	evening set	1822 Jul 05 23:15	25°♌50'42	
minimum elong	1821 Aug 02 01:35	9°♊11'44	4°52'25	min. Earth dist.	1822 Jul 11 06:47	23°♌02'17	0.57203 AU
morning rise	1821 Aug 09 17:54	4°♊46'23		inferior conj	1822 Jul 14 04:57	21°♌07'09	-4°-52'-38
direct	1821 Aug 12 04:32	4°♊25'58		minimum elong	1822 Jul 14 02:29	21°♌11'14	4°52'30
morning max el	1821 Aug 20 01:53	8°♊13'06	18°27'22	morning rise	1822 Jul 22 09:29	16°♌59'27	
asc. node	1821 Aug 22 22:10	11°♊22'23		direct	1822 Jul 24 23:43	16°♌40'24	
	1821 Sep 03 03:43	0°♋		morning max el	1822 Aug 03 02:16	20°♌55'22	19°16'11
morning set	1821 Sep 05 03:06	3°♋46'28		asc. node	1822 Aug 09 19:14	29°♌18'30	
					1822 Aug 10 05:54	0°♌	
superior conj	1821 Sep 14 04:25	20°♋59'35	1°34'36	morning set	1822 Aug 20 02:35	18°♌04'58	
minimum elong	1821 Sep 14 07:29	21°♋13'49	1°34'21		1822 Aug 26 02:02	0°♋	
	1821 Sep 19 03:42	0°♌		superior conj	1822 Aug 28 07:52	4°♋23'57	1°44'20
max. Earth dist.	1821 Sep 21 14:48	4°♌18'47	1.40251 AU	minimum elong	1822 Aug 28 09:01	4°♋29'30	1°44'18
evening rise	1821 Sep 26 00:38	11°♌47'39		max. Earth dist.	1822 Sep 03 18:26	16°♋33'06	1.38198 AU
desc. node	1821 Sep 30 08:11	18°♌49'50		evening rise	1822 Sep 07 14:10	23°♋23'13	
	1821 Oct 07 12:56	0°♍			1822 Sep 11 10:43	0°♌	
	1821 Oct 30 06:25	0°♌		desc. node	1822 Sep 17 05:12	9°♌23'37	
evening max el	1821 Oct 30 17:15	0°♌27'20	23°37'41		1822 Oct 01 07:57	0°♍	
retrograde	1821 Nov 10 09:13	6°♌45'09		evening max el	1822 Oct 13 05:23	14°♍05'10	24°55'34
evening set	1821 Nov 15 10:06	4°♌40'42		retrograde	1822 Oct 24 22:20	20°♍53'16	
asc. node	1821 Nov 18 21:25	0°♌53'27		evening set	1822 Oct 30 13:27	18°♍32'16	
	1821 Nov 19 13:40	30°♍		min. Earth dist.	1822 Nov 04 03:24	13°♍22'19	0.67354 AU
min. Earth dist.	1821 Nov 20 08:28	28°♍56'27	0.67746 AU	inferior conj	1822 Nov 05 02:03	12°♍07'37	0°-14'-7
inferior conj	1821 Nov 20 20:31	28°♍15'18	0°40'13	minimum elong	1822 Nov 05 02:25	12°♍06'27	0°13'59
minimum elong	1821 Nov 20 19:35	28°♍18'30	0°39'49	transit begin	1822 Nov 05 01:00	12°♍11'04	
morning rise	1821 Nov 26 05:13	22°♍06'15		transit end	1822 Nov 05 03:49	12°♍01'49	
direct	1821 Nov 30 06:26	20°♍34'09		asc. node	1822 Nov 05 18:26	11°♍13'52	
morning max el	1821 Dec 08 14:40	25°♍24'30	20°58'30	morning rise	1822 Nov 10 15:54	6°♍05'06	
	1821 Dec 12 16:35	0°♌		direct	1822 Nov 14 04:30	4°♍53'29	
greatest brilliancy	1821 Dec 14 03:56	1°♌50'35	-0.5m	morning max el	1822 Nov 21 15:36	9°♍08'15	19°49'15
desc. node	1821 Dec 27 07:26	20°♌20'29		greatest brilliancy	1822 Nov 29 07:11	18°♍34'25	-0.6m
	1822 Jan 02 17:04	0°♍			1822 Dec 07 03:28	0°♌	
morning set	1822 Jan 07 14:05	7°♍32'27		desc. node	1822 Dec 14 04:28	10°♌42'21	
max. Earth dist.	1822 Jan 15 19:37	20°♍40'01	1.42703 AU	morning set	1822 Dec 17 10:10	15°♌41'27	
	1822 Jan 21 10:55	0°♎			1822 Dec 26 14:18	0°♍	
superior conj	1822 Jan 22 19:41	2°♎18'29	-2°-3'-57	max. Earth dist.	1822 Dec 29 06:33	4°♍14'28	1.44171 AU
minimum elong	1822 Jan 22 18:06	2°♎11'46	2°03'56	superior conj	1823 Jan 03 01:59	11°♍57'32	-1°-49'-41
evening rise	1822 Feb 03 12:51	22°♎49'30		minimum elong	1823 Jan 02 19:03	11°♍29'29	1°49'13
	1822 Feb 07 13:19	0°♎			1823 Jan 13 23:28	0°♎	
asc. node	1822 Feb 14 20:46	12°♎15'02		evening rise	1823 Jan 16 14:20	4°♎26'40	
evening max el	1822 Feb 20 08:24	19°♎16'04	18°07'21		1823 Feb 01 14:57	0°♎	
retrograde	1822 Feb 26 23:05	22°♎40'18		asc. node	1823 Feb 01 17:47	0°♎08'47	
evening set	1822 Mar 01 14:58	22°♎07'05		evening max el	1823 Feb 03 20:58	2°♎32'47	18°15'17
inferior conj	1822 Mar 08 04:44	17°♎05'06	3°36'23	retrograde	1823 Feb 10 08:04	6°♎00'31	
minimum elong	1822 Mar 08 06:21	17°♎01'07	3°36'15	evening set	1823 Feb 13 04:56	5°♎17'06	
min. Earth dist.	1822 Mar 11 07:05	14°♎03'43	0.61414 AU	inferior conj	1823 Feb 19 07:52	29°♎55'10	3°44'01
morning rise	1822 Mar 14 18:57	11°♎11'09		minimum elong	1823 Feb 19 07:33	29°♎56'02	3°44'01
direct	1822 Mar 21 15:02	8°♎49'25			1823 Feb 19 06:06	30°♎	
desc. node	1822 Mar 25 06:38	9°♎26'28		min. Earth dist.	1823 Feb 21 20:24	27°♎08'34	0.63402 AU
morning max el	1822 Apr 04 19:20	16°♎43'34	27°46'55	morning rise	1823 Feb 25 08:17	23°♎50'34	
	1822 Apr 15 18:29	0°♏		direct	1823 Mar 04 06:37	21°♎06'49	
	1822 May 03 17:06	0°♏		desc. node	1823 Mar 12 03:40	23°♎59'10	
morning set	1822 May 07 15:50	7°♏52'21		morning max el	1823 Mar 18 02:51	29°♎02'19	27°42'31
max. Earth dist.	1822 May 13 15:46	20°♏34'28	1.32375 AU		1823 Mar 19 01:28	0°♎	
asc. node	1822 May 13 20:03	20°♏57'44			1823 Apr 09 15:12	0°♏	
superior conj	1822 May 15 01:02	23°♏35'43	0°12'45	morning set	1823 Apr 21 14:09	22°♏00'33	
minimum elong	1822 May 15 00:27	23°♏32'31	0°12'37		1823 Apr 25 11:59	0°♏	
behind sun begin	1822 May 14 21:20	23°♏15'32		max. Earth dist.	1823 Apr 26 20:51	2°♏52'40	1.32970 AU
behind sun end	1822 May 15 03:33	23°♏49'30		superior conj	1823 Apr 29 08:46	8°♏12'13	0°-14'-9
	1822 May 17 23:16	0°♐					

minimum elong	1823 Apr 29 09:28	8°♄15'56	0°14'00	max. Earth dist.	1824 Apr 08 16:34	14°♃39'41	1.34011 AU
behind sun begin	1823 Apr 29 06:56	8°♄02'20					
behind sun end	1823 Apr 29 11:59	8°♄29'33		superior conj	1824 Apr 12 11:38	22°♃29'55	0°-41'-58
asc. node	1823 Apr 30 17:05	11°♄06'22		minimum elong	1824 Apr 12 13:45	22°♃40'59	0°41'33
evening rise	1823 May 06 11:14	23°♄28'50			1824 Apr 16 00:52	0°♄	
	1823 May 09 14:47	0°♄		asc. node	1824 Apr 16 14:08	1°♄10'24	
	1823 May 29 01:45	0°♄		evening rise	1824 Apr 19 21:45	8°♄10'08	
evening max el	1823 May 29 09:17	0°♄18'25	23°13'41		1824 May 01 14:01	0°♄	
desc. node	1823 Jun 08 02:54	6°♄30'36		evening max el	1824 May 10 04:00	10°♄55'49	21°40'02
retrograde	1823 Jun 11 21:32	7°♄03'05		retrograde	1824 May 22 13:07	16°♄59'55	
evening set	1823 Jun 15 14:18	6°♄33'05		evening set	1824 May 25 01:48	16°♄45'31	
min. Earth dist.	1823 Jun 22 19:00	3°♄17'17	0.55688 AU	desc. node	1824 May 24 23:56	16°♄46'23	
inferior conj	1823 Jun 24 14:54	2°♄12'53	-4°-9'-43	inferior conj	1824 Jun 03 11:02	12°♄44'05	-2°-39'-43
minimum elong	1823 Jun 24 07:45	2°♄23'25	4°08'15	minimum elong	1824 Jun 03 04:02	12°♄53'53	2°37'28
	1823 Jun 28 14:57	30°♄		min. Earth dist.	1824 Jun 03 07:01	12°♄49'42	0.54953 AU
morning rise	1823 Jul 03 04:20	28°♄19'14		morning rise	1824 Jun 12 07:08	8°♄48'56	
direct	1823 Jul 05 23:40	28°♄00'14		direct	1824 Jun 15 11:23	8°♄26'47	
	1823 Jul 12 18:49	0°♄		morning max el	1824 Jun 27 17:59	14°♄13'56	21°55'00
morning max el	1823 Jul 16 15:49	2°♄56'46	20°26'14		1824 Jul 09 14:50	0°♄	
asc. node	1823 Jul 27 16:18	17°♄56'59		asc. node	1824 Jul 13 13:23	7°♄07'36	
	1823 Aug 03 00:19	0°♄		morning set	1824 Jul 18 17:40	17°♄30'41	
morning set	1823 Aug 04 08:11	2°♄41'45			1824 Jul 24 15:37	0°♄	
superior conj	1823 Aug 11 23:53	18°♄25'51	1°45'20	superior conj	1824 Jul 26 00:39	2°♄53'57	1°39'17
minimum elong	1823 Aug 11 23:21	18°♄23'06	1°45'20	minimum elong	1824 Jul 25 22:57	2°♄45'00	1°39'11
max. Earth dist.	1823 Aug 17 00:36	28°♄24'23	1.36287 AU	max. Earth dist.	1824 Jul 29 14:45	10°♄19'27	1.34694 AU
	1823 Aug 17 20:29	0°♄		evening rise	1824 Aug 03 04:42	19°♄24'42	
evening rise	1823 Aug 21 01:04	5°♄59'41			1824 Aug 08 21:41	0°♄	
desc. node	1823 Sep 04 02:13	29°♄43'27		desc. node	1824 Aug 20 23:15	19°♄42'41	
	1823 Sep 04 06:31	0°♄			1824 Aug 28 08:03	0°♄	
evening max el	1823 Sep 25 17:19	27°♄44'41	26°04'13	evening max el	1824 Sep 07 05:42	11°♄19'28	26°55'52
	1823 Sep 28 04:38	0°♄		retrograde	1824 Sep 20 09:34	18°♄35'52	
retrograde	1823 Oct 08 06:41	4°♄52'21		evening set	1824 Sep 27 03:31	15°♄53'45	
evening set	1823 Oct 14 11:59	2°♄17'56		min. Earth dist.	1824 Oct 01 02:43	11°♄56'46	0.65550 AU
	1823 Oct 16 20:11	30°♄		inferior conj	1824 Oct 03 00:31	9°♄44'24	-2°-9'-36
min. Earth dist.	1823 Oct 18 18:19	27°♄43'55	0.66627 AU	minimum elong	1824 Oct 03 03:58	9°♄34'25	2°08'17
inferior conj	1823 Oct 20 04:05	25°♄58'35	-1°-11'-17	morning rise	1824 Oct 09 05:54	4°♄03'41	
minimum elong	1823 Oct 20 05:57	25°♄52'45	1°10'32	asc. node	1824 Oct 09 12:34	3°♄55'48	
asc. node	1823 Oct 23 15:29	21°♄59'00		direct	1824 Oct 11 23:53	3°♄22'12	
morning rise	1823 Oct 26 00:53	20°♄05'22		morning max el	1824 Oct 18 13:06	6°♄55'32	18°16'43
direct	1823 Oct 29 02:59	19°♄10'45			1824 Nov 03 08:40	0°♄	
morning max el	1823 Nov 04 23:44	23°♄00'04	18°54'49	morning set	1824 Nov 06 11:01	5°♄03'16	
	1823 Nov 10 16:57	0°♄		desc. node	1824 Nov 16 22:32	21°♄57'47	
morning set	1823 Nov 26 20:28	24°♄39'27					
	1823 Nov 30 06:06	0°♄		superior conj	1824 Nov 21 11:39	29°♄10'16	0°-30'-5
desc. node	1823 Dec 01 01:31	1°♄16'08		minimum elong	1824 Nov 21 07:45	28°♄54'53	0°29'34
max. Earth dist.	1823 Dec 11 22:49	18°♄21'19	1.44995 AU		1824 Nov 22 00:15	0°♄	
				max. Earth dist.	1824 Nov 23 17:58	2°♄44'11	1.45091 AU
superior conj	1823 Dec 13 09:52	20°♄39'17	-1°-16'-31	evening rise	1824 Dec 07 21:12	24°♄50'58	
minimum elong	1823 Dec 13 01:17	20°♄05'30	1°15'36		1824 Dec 11 04:21	0°♄	
	1823 Dec 19 07:38	0°♄		greatest brilliancy	1824 Dec 22 22:52	18°♄03'55	-0.7m
evening rise	1823 Dec 28 17:19	15°♄06'23		evening max el	1824 Dec 31 16:49	29°♄26'42	19°24'56
	1824 Jan 06 22:12	0°♄			1825 Jan 01 06:05	0°♄	
evening max el	1824 Jan 18 08:32	15°♄58'02	18°41'37	asc. node	1825 Jan 05 11:51	3°♄03'29	
asc. node	1824 Jan 19 14:48	17°♄09'51		retrograde	1825 Jan 07 20:54	3°♄34'23	
retrograde	1824 Jan 25 00:28	19°♄40'47		evening set	1825 Jan 11 06:26	2°♄26'52	
evening set	1824 Jan 28 03:01	18°♄46'01			1825 Jan 14 00:10	30°♄	
inferior conj	1824 Feb 02 22:13	13°♄05'57	3°33'59	inferior conj	1825 Jan 16 20:28	26°♄30'57	3°10'50
minimum elong	1824 Feb 02 20:31	13°♄11'09	3°33'45	minimum elong	1825 Jan 16 18:00	26°♄38'57	3°10'18
min. Earth dist.	1824 Feb 04 19:13	10°♄49'51	0.65065 AU	min. Earth dist.	1825 Jan 18 02:33	24°♄53'24	0.66334 AU
morning rise	1824 Feb 08 12:48	6°♄55'25		morning rise	1825 Jan 22 04:47	20°♄17'07	
direct	1824 Feb 15 05:27	4°♄04'28		direct	1825 Jan 28 10:13	17°♄32'26	
desc. node	1824 Feb 27 00:43	10°♄24'12		morning max el	1825 Feb 09 21:47	24°♄56'33	25°59'40
morning max el	1824 Feb 28 12:24	11°♄50'49	27°04'19	desc. node	1825 Feb 12 21:46	28°♄09'10	
	1824 Mar 14 00:29	0°♄			1825 Feb 14 12:08	0°♄	
	1824 Apr 01 03:52	0°♄			1825 Mar 07 11:42	0°♄	
morning set	1824 Apr 04 02:59	5°♄36'50		morning set	1825 Mar 18 02:09	18°♄27'57	

max. Earth dist.	1825 Mar 22 00:48	25° Υ 55'10	1.35510 AU	morning set	1826 Feb 28 06:20	0° Υ 19'15	
	1825 Mar 24 02:59	0° Υ		max. Earth dist.	1826 Mar 03 23:15	6° Υ 57'49	1.37409 AU
superior conj	1825 Mar 27 07:03	6° Υ 20'17	-1°-9'-22	superior conj	1826 Mar 10 15:53	19° Υ 34'52	-1°-34'-18
minimum elong	1825 Mar 27 10:29	6° Υ 37'41	1°08'48	minimum elong	1826 Mar 10 20:06	19° Υ 55'22	1°33'48
asc. node	1825 Apr 03 11:11	21° Υ 04'48			1826 Mar 15 22:33	0° Υ	
evening rise	1825 Apr 04 04:53	22° Υ 35'33		evening rise	1826 Mar 19 06:20	6° Υ 38'30	
	1825 Apr 07 21:28	0° Υ		asc. node	1826 Mar 21 08:13	10° Υ 44'58	
evening max el	1825 Apr 22 09:04	22° Υ 03'26	20°19'03		1826 Apr 01 16:30	0° Υ	
retrograde	1825 May 03 02:31	27° Υ 15'06		evening max el	1826 Apr 05 01:42	3° Υ 50'26	19°16'28
evening set	1825 May 05 03:58	27° Υ 04'26		retrograde	1826 Apr 14 02:56	8° Υ 13'07	
desc. node	1825 May 11 20:59	24° Υ 28'19		evening set	1826 Apr 16 05:13	8° Υ 00'03	
inferior conj	1825 May 14 06:12	23° Υ 06'19	0°-41'-40	inferior conj	1826 Apr 24 14:25	3° Υ 50'34	1°10'10
minimum elong	1825 May 14 04:15	23° Υ 09'12	0°40'59	minimum elong	1826 Apr 24 17:10	3° Υ 46'00	1°09'15
min. Earth dist.	1825 May 15 19:51	22° Υ 11'08	0.55166 AU	min. Earth dist.	1826 Apr 27 10:40	1° Υ 57'24	0.56285 AU
morning rise	1825 May 23 02:30	18° Υ 50'42		desc. node	1826 Apr 28 18:01	1° Υ 08'33	
direct	1825 May 26 23:02	18° Υ 18'32			1826 Apr 30 19:21	30° Υ	
morning max el	1825 Jun 09 11:27	24° Υ 54'39	23°35'38	morning rise	1826 May 03 01:07	29° Υ 01'24	
	1825 Jun 14 04:26	0° Υ		direct	1826 May 07 21:16	28° Υ 07'31	
asc. node	1825 Jun 30 10:27	26° Υ 41'39			1826 May 14 21:53	0° Υ	
	1825 Jul 02 01:11	0° Υ		morning max el	1826 May 22 01:55	5° Υ 21'40	25°15'25
morning set	1825 Jul 03 05:10	2° Υ 26'04			1826 Jun 08 20:10	0° Υ	
superior conj	1825 Jul 10 07:13	17° Υ 39'08	1°27'33	morning set	1826 Jun 17 16:58	17° Υ 22'22	
minimum elong	1825 Jul 10 04:55	17° Υ 26'42	1°27'16	asc. node	1826 Jun 17 07:29	16° Υ 32'28	
max. Earth dist.	1825 Jul 12 14:21	22° Υ 33'45	1.33484 AU		1826 Jun 23 13:08	0° Υ	
	1825 Jul 16 03:58	0° Υ		superior conj	1826 Jun 24 17:17	2° Υ 33'55	1°11'07
evening rise	1825 Jul 17 20:39	3° Υ 25'47		minimum elong	1826 Jun 24 14:53	2° Υ 20'52	1°10'44
	1825 Aug 01 16:32	0° Υ		max. Earth dist.	1826 Jun 25 21:27	5° Υ 07'33	1.32676 AU
desc. node	1825 Aug 07 20:17	9° Υ 12'34		evening rise	1826 Jul 01 21:19	17° Υ 52'11	
evening max el	1825 Aug 20 17:21	24° Υ 38'00	27°23'14		1826 Jul 08 01:20	0° Υ	
	1825 Aug 27 17:08	0° Υ		desc. node	1826 Jul 25 17:19	28° Υ 00'25	
retrograde	1825 Sep 03 06:30	1° Υ 55'59			1826 Jul 27 07:12	0° Υ	
	1825 Sep 09 07:33	30° Υ		evening max el	1826 Aug 03 01:55	7° Υ 26'20	27°20'26
evening set	1825 Sep 10 09:18	29° Υ 15'00		retrograde	1826 Aug 16 21:01	14° Υ 42'46	
min. Earth dist.	1825 Sep 14 02:24	25° Υ 53'31	0.64117 AU	evening set	1826 Aug 24 01:43	12° Υ 15'02	
inferior conj	1825 Sep 16 12:56	23° Υ 19'49	-3°-6'-33	min. Earth dist.	1826 Aug 27 15:45	9° Υ 22'28	0.62352 AU
minimum elong	1825 Sep 16 17:43	23° Υ 07'14	3°04'59	inferior conj	1826 Aug 30 14:23	6° Υ 37'14	-3°-58'-18
morning rise	1825 Sep 23 04:13	17° Υ 55'09		minimum elong	1826 Aug 30 19:41	6° Υ 24'46	3°56'59
direct	1825 Sep 25 16:36	17° Υ 23'13		morning rise	1826 Sep 06 16:22	1° Υ 32'02	
asc. node	1825 Sep 26 09:37	17° Υ 25'48		direct	1826 Sep 09 01:46	1° Υ 06'34	
morning max el	1825 Oct 02 05:05	20° Υ 49'13	17°55'48	asc. node	1826 Sep 13 06:40	2° Υ 27'25	
	1825 Oct 09 03:48	0° Υ		morning max el	1826 Sep 15 20:42	4° Υ 33'35	17°52'51
morning set	1825 Oct 19 05:12	16° Υ 47'53		morning set	1826 Oct 01 20:59	29° Υ 33'47	
	1825 Oct 27 00:38	0° Υ			1826 Oct 02 02:49	0° Υ	
superior conj	1825 Nov 01 04:38	8° Υ 29'54	0°17'39	superior conj	1826 Oct 12 23:55	19° Υ 07'22	0°56'58
minimum elong	1825 Nov 01 06:37	8° Υ 37'55	0°17'23	minimum elong	1826 Oct 13 04:26	19° Υ 26'36	0°56'23
desc. node	1825 Nov 03 19:34	12° Υ 44'09			1826 Oct 19 12:28	0° Υ	
max. Earth dist.	1825 Nov 06 12:39	17° Υ 04'13	1.44451 AU	max. Earth dist.	1826 Oct 20 03:14	1° Υ 00'09	1.43160 AU
	1825 Nov 14 18:32	0° Υ		desc. node	1826 Oct 21 16:36	3° Υ 31'25	
evening rise	1825 Nov 17 08:35	3° Υ 59'33		evening rise	1826 Oct 27 18:09	13° Υ 08'01	
	1825 Dec 04 16:59	0° Υ			1826 Nov 07 20:44	0° Υ	
greatest brilliancy	1825 Dec 08 14:37	5° Υ 25'00	-0.5m	greatest brilliancy	1826 Nov 22 19:19	20° Υ 47'31	-0.4m
evening max el	1825 Dec 14 20:07	12° Υ 56'43	20°23'13	evening max el	1826 Nov 27 17:40	26° Υ 26'50	21°33'34
retrograde	1825 Dec 22 18:49	17° Υ 37'27			1826 Dec 01 20:21	0° Υ	
asc. node	1825 Dec 23 08:53	17° Υ 35'31		retrograde	1826 Dec 06 16:06	1° Υ 45'49	
evening set	1825 Dec 26 12:58	16° Υ 15'42		asc. node	1826 Dec 10 05:55	0° Υ 35'15	
inferior conj	1825 Dec 31 23:54	10° Υ 06'46	2°37'45	evening set	1826 Dec 10 20:43	0° Υ 08'22	
minimum elong	1825 Dec 31 21:16	10° Υ 15'41	2°36'59		1826 Dec 11 00:54	30° Υ	
min. Earth dist.	1826 Jan 01 16:37	9° Υ 10'05	0.67199 AU	inferior conj	1826 Dec 16 06:18	23° Υ 49'56	1°56'51
morning rise	1826 Jan 06 05:05	3° Υ 51'32		minimum elong	1826 Dec 16 04:00	23° Υ 57'54	1°56'03
direct	1826 Jan 11 20:18	1° Υ 22'39		min. Earth dist.	1826 Dec 16 11:11	23° Υ 33'00	0.67683 AU
morning max el	1826 Jan 23 06:23	8° Υ 11'17	24°38'04	morning rise	1826 Dec 21 11:00	17° Υ 35'12	
desc. node	1826 Jan 30 18:47	16° Υ 51'13		direct	1826 Dec 26 11:00	15° Υ 27'21	
	1826 Feb 09 09:05	0° Υ		morning max el	1827 Jan 05 15:37	21° Υ 30'42	23°09'44
	1826 Feb 28 01:58	0° Υ		greatest brilliancy	1827 Jan 10 15:20	27° Υ 05'50	-0.3m

	1827 Jan 12 23:15	0°☿		morning max el	1827 Dec 19 04:50	4°☿56'53	21°43'52
desc. node	1827 Jan 17 15:49	6°☿13'42		greatest brilliancy	1827 Dec 24 01:26	10°☿26'55	-0.4m
	1827 Feb 02 16:16	0°☿		desc. node	1828 Jan 04 12:51	26°☿05'18	
morning set	1827 Feb 09 09:19	10°☿54'41			1828 Jan 07 04:57	0°☿	
max. Earth dist.	1827 Feb 13 18:09	18°☿20'25	1.39534 AU	morning set	1828 Jan 20 07:05	20°☿06'06	
	1827 Feb 20 07:13	0°☿			1828 Jan 26 09:19	0°☿	
				max. Earth dist.	1828 Jan 26 17:02	0°☿31'59	1.41627 AU
superior conj	1827 Feb 21 10:01	2°☿03'16	-1°-53'-54				
minimum elong	1827 Feb 21 13:47	2°☿20'37	1°53'40	superior conj	1828 Feb 03 08:26	13°☿33'21	-2°-4'-12
evening rise	1827 Mar 02 23:16	20°☿11'19		minimum elong	1828 Feb 03 09:32	13°☿38'11	2°04'11
	1827 Mar 08 04:04	0°☿			1828 Feb 12 11:48	0°☿	
asc. node	1827 Mar 08 05:15	0°☿05'24		evening rise	1828 Feb 14 04:09	3°☿05'33	
evening max el	1827 Mar 19 03:59	16°☿13'52	18°34'00	asc. node	1828 Feb 23 02:16	18°☿59'03	
retrograde	1827 Mar 26 21:23	20°☿01'02		evening max el	1828 Mar 01 12:47	29°☿04'49	18°11'30
evening set	1827 Mar 29 04:55	19°☿41'47			1828 Mar 02 12:52	0°☿	
inferior conj	1827 Apr 05 19:09	15°☿13'37	2°32'39	retrograde	1828 Mar 08 09:51	2°☿32'40	
minimum elong	1827 Apr 05 23:11	15°☿05'45	2°31'38	evening set	1828 Mar 10 22:56	2°☿04'53	
min. Earth dist.	1827 Apr 09 05:01	12°☿35'24	0.58071 AU		1828 Mar 14 14:43	30°☿	
morning rise	1827 Apr 13 13:09	9°☿52'05		inferior conj	1828 Mar 17 20:35	27°☿15'25	3°21'30
desc. node	1827 Apr 15 15:01	9°☿01'27		minimum elong	1828 Mar 17 23:21	27°☿09'07	3°21'05
direct	1827 Apr 19 09:56	8°☿24'43		min. Earth dist.	1828 Mar 21 04:45	24°☿15'10	0.60187 AU
morning max el	1827 May 03 19:05	16°☿02'50	26°38'44	morning rise	1828 Mar 24 20:24	21°☿30'54	
	1827 May 15 03:43	0°☿		direct	1828 Mar 31 11:04	19°☿26'59	
	1827 Jun 01 01:44	0°☿		desc. node	1828 Apr 01 12:02	19°☿29'58	
morning set	1827 Jun 02 03:30	2°☿14'19		morning max el	1828 Apr 14 17:57	27°☿17'22	27°32'23
asc. node	1827 Jun 04 04:31	6°☿34'41			1828 Apr 17 08:11	0°☿	
					1828 May 07 18:01	0°☿	
superior conj	1827 Jun 09 04:57	17°☿32'07	0°50'51	morning set	1828 May 16 10:58	16°☿54'35	
minimum elong	1827 Jun 09 02:57	17°☿21'08	0°50'28	asc. node	1828 May 21 01:33	26°☿42'36	
max. Earth dist.	1827 Jun 09 08:52	17°☿53'39	1.32257 AU		1828 May 22 13:45	0°☿	
	1827 Jun 14 22:28	0°☿		max. Earth dist.	1828 May 22 20:54	0°☿39'10	1.32223 AU
evening rise	1827 Jun 16 03:54	2°☿35'23					
	1827 Jun 30 23:19	0°☿		superior conj	1828 May 23 16:26	2°☿26'23	0°27'25
desc. node	1827 Jul 12 14:20	15°☿49'00		minimum elong	1828 May 23 15:14	2°☿19'47	0°27'09
evening max el	1827 Jul 16 05:07	19°☿34'03	26°44'34	evening rise	1828 May 30 14:02	17°☿26'25	
retrograde	1827 Jul 30 04:12	26°☿47'41			1828 Jun 05 19:16	0°☿	
evening set	1827 Aug 06 00:20	24°☿47'02			1828 Jun 26 02:51	0°☿	
min. Earth dist.	1827 Aug 09 18:56	22°☿10'00	0.60349 AU	evening max el	1828 Jun 27 01:23	0°☿55'11	25°37'44
inferior conj	1827 Aug 13 01:31	19°☿28'50	-4°-38'-28	desc. node	1828 Jun 28 11:20	2°☿12'56	
minimum elong	1827 Aug 13 05:40	19°☿20'15	4°37'53	retrograde	1828 Jul 11 01:53	8°☿04'05	
morning rise	1827 Aug 20 14:16	14°☿45'39		evening set	1828 Jul 17 00:31	6°☿40'48	
direct	1827 Aug 22 23:31	14°☿24'05		min. Earth dist.	1828 Jul 21 13:38	4°☿01'26	0.58300 AU
morning max el	1827 Aug 30 08:52	18°☿01'14	18°08'56	inferior conj	1828 Jul 24 18:45	1°☿44'14	-4°-57'-2
asc. node	1827 Aug 31 03:42	18°☿48'50		minimum elong	1828 Jul 24 19:18	1°☿43'15	4°57'03
	1827 Sep 08 00:00	0°☿			1828 Jul 27 07:08	30°☿	
morning set	1827 Sep 15 04:32	13°☿05'02		morning rise	1828 Aug 01 17:43	27°☿23'52	
	1827 Sep 24 07:34	0°☿		direct	1828 Aug 04 05:33	27°☿04'14	
					1828 Aug 11 10:10	0°☿	
superior conj	1827 Sep 24 21:08	1°☿01'04	1°24'15	morning max el	1828 Aug 12 14:19	1°☿02'04	18°45'27
minimum elong	1827 Sep 25 01:10	1°☿19'11	1°23'50	asc. node	1828 Aug 17 00:45	6°☿14'09	
max. Earth dist.	1827 Oct 02 12:13	14°☿18'09	1.41395 AU	morning set	1828 Aug 28 23:12	27°☿08'40	
evening rise	1827 Oct 07 18:27	22°☿59'10			1828 Aug 30 10:15	0°☿	
desc. node	1827 Oct 08 13:37	24°☿16'26					
	1827 Oct 12 04:18	0°☿		superior conj	1828 Sep 06 15:05	13°☿56'05	1°39'54
	1827 Nov 01 22:18	0°☿		minimum elong	1828 Sep 06 17:21	14°☿06'46	1°39'47
greatest brilliancy	1827 Nov 05 06:41	4°☿12'56	-0.3m	max. Earth dist.	1828 Sep 13 16:53	26°☿53'49	1.39378 AU
evening max el	1827 Nov 10 10:10	9°☿58'59	22°51'38		1828 Sep 15 11:20	0°☿	
retrograde	1827 Nov 20 11:05	15°☿56'35		evening rise	1828 Sep 17 18:08	3°☿55'29	
evening set	1827 Nov 25 04:01	14°☿02'18		desc. node	1828 Sep 24 10:39	14°☿55'22	
asc. node	1827 Nov 27 02:56	12°☿06'52			1828 Oct 04 08:47	0°☿	
min. Earth dist.	1827 Nov 30 07:48	7°☿58'46	0.67816 AU	evening max el	1828 Oct 22 23:25	23°☿34'57	24°11'38
inferior conj	1827 Nov 30 13:44	7°☿38'16	1°09'43		1828 Nov 01 20:33	0°☿	
minimum elong	1827 Nov 30 12:12	7°☿43'35	1°09'06	retrograde	1828 Nov 03 02:28	0°☿06'29	
morning rise	1827 Dec 05 20:20	1°☿26'15			1828 Nov 04 07:32	30°☿	
	1827 Dec 08 08:21	30°☿		evening set	1828 Nov 08 09:16	27°☿55'03	
direct	1827 Dec 10 05:34	29°☿41'10		asc. node	1828 Nov 12 23:58	22°☿38'43	
	1827 Dec 12 04:51	0°☿		min. Earth dist.	1828 Nov 13 04:03	22°☿25'02	0.67616 AU

inferior conj	1828 Nov 13 20:29	21°♄29'37	0°17'38	inferior conj	1829 Oct 29 00:45	5°♄21'12	0°-38'-8
minimum elong	1828 Nov 13 20:03	21°♄31'03	0°17'26	minimum elong	1829 Oct 29 01:43	5°♄18'03	0°37'43
morning rise	1828 Nov 19 07:06	15°♄22'50		asc. node	1829 Oct 30 21:02	3°♄02'06	
direct	1828 Nov 23 02:48	13°♄59'35			1829 Nov 02 20:28	30°♄	
morning max el	1828 Dec 01 01:06	18°♄33'29	20°27'21	morning rise	1829 Nov 03 17:21	29°♄22'25	
greatest brilliancy	1828 Dec 07 08:18	26°♄02'05	-0.5m	direct	1829 Nov 07 01:18	28°♄18'22	
	1828 Dec 10 06:22	0°♄			1829 Nov 11 12:29	0°♄	
desc. node	1828 Dec 21 09:53	16°♄17'53		morning max el	1829 Nov 14 05:15	2°♄20'36	19°24'14
morning set	1828 Dec 29 06:30	28°♄19'03		greatest brilliancy	1829 Nov 23 08:59	14°♄03'56	-0.7m
	1828 Dec 30 08:30	0°♄			1829 Dec 03 22:09	0°♄	
max. Earth dist.	1829 Jan 07 23:58	13°♄40'26	1.43395 AU	morning set	1829 Dec 08 05:51	6°♄40'57	
				desc. node	1829 Dec 08 06:54	6°♄45'05	
superior conj	1829 Jan 14 06:08	23°♄54'15	-2°00'-14	max. Earth dist.	1829 Dec 21 14:06	27°♄32'44	1.44607 AU
minimum elong	1829 Jan 14 02:13	23°♄37'59	2°00'05		1829 Dec 23 03:16	0°♄	
	1829 Jan 17 21:23	0°♄					
evening rise	1829 Jan 26 16:53	15°♄13'08		superior conj	1829 Dec 25 01:38	3°♄04'29	-1°-37'-48
	1829 Feb 04 06:08	0°♄		minimum elong	1829 Dec 24 17:13	2°♄30'53	1°37'05
asc. node	1829 Feb 08 23:18	7°♄17'48		evening rise	1830 Jan 08 09:08	26°♄25'59	
evening max el	1829 Feb 13 00:53	12°♄14'40	18°08'29		1830 Jan 10 12:27	0°♄	
retrograde	1829 Feb 19 12:43	15°♄38'29		asc. node	1830 Jan 26 20:21	24°♄50'30	
evening set	1829 Feb 22 06:49	15°♄00'54		evening max el	1830 Jan 27 13:19	25°♄35'11	18°24'19
inferior conj	1829 Feb 28 15:32	9°♄50'13	3°42'08	retrograde	1830 Feb 03 01:26	29°♄08'01	
minimum elong	1829 Feb 28 16:18	9°♄48'15	3°42'06	evening set	1830 Feb 06 00:39	28°♄19'46	
min. Earth dist.	1829 Mar 03 12:27	6°♄52'58	0.62294 AU	inferior conj	1830 Feb 11 23:54	22°♄49'34	3°41'35
morning rise	1829 Mar 06 23:28	3°♄51'22		minimum elong	1830 Feb 11 22:55	22°♄52'24	3°41'32
direct	1829 Mar 13 21:48	1°♄18'37		min. Earth dist.	1830 Feb 14 05:43	22°♄14'50	0.64153 AU
desc. node	1829 Mar 19 09:04	2°♄42'00		morning rise	1830 Feb 17 19:41	16°♄42'03	
morning max el	1829 Mar 27 22:47	9°♄13'28	27°49'29	direct	1830 Feb 24 16:19	13°♄53'51	
	1829 Apr 13 00:55	0°♄		desc. node	1830 Mar 06 06:06	18°♄06'22	
	1829 Apr 29 22:09	0°♄		morning max el	1830 Mar 10 07:36	21°♄46'14	27°30'09
morning set	1829 Apr 30 13:21	1°♄16'44			1830 Mar 17 12:33	0°♄	
max. Earth dist.	1829 May 06 05:48	13°♄11'38	1.32585 AU		1830 Apr 06 04:40	0°♄	
				morning set	1830 Apr 14 08:04	15°♄12'26	
superior conj	1829 May 08 02:06	17°♄11'09	0°01'33	max. Earth dist.	1830 Apr 19 07:37	25°♄18'34	1.33362 AU
minimum elong	1829 May 08 02:01	17°♄10'44	0°01'32		1830 Apr 21 13:11	0°♄	
behind sun begin	1829 May 07 20:53	16°♄42'48					
behind sun end	1829 May 08 07:10	17°♄38'41		superior conj	1830 Apr 22 08:02	1°♄40'08	0°-25'-53
asc. node	1829 May 07 22:36	16°♄52'09		minimum elong	1830 Apr 22 09:19	1°♄46'59	0°25'38
	1829 May 13 23:45	0°♄		asc. node	1830 Apr 24 19:40	6°♄59'13	
evening rise	1829 May 15 01:47	2°♄18'43		evening rise	1830 Apr 29 13:18	17°♄05'41	
	1829 May 30 04:45	0°♄			1830 May 05 23:45	0°♄	
evening max el	1829 Jun 08 16:03	11°♄37'45	24°08'54	evening max el	1830 May 21 06:55	22°♄07'08	22°32'47
desc. node	1829 Jun 15 08:21	16°♄39'44		desc. node	1830 Jun 02 05:22	28°♄34'02	
retrograde	1829 Jun 22 11:42	18°♄35'12		retrograde	1830 Jun 03 09:24	28°♄37'08	
evening set	1829 Jun 27 01:28	17°♄48'51		evening set	1830 Jun 06 12:42	28°♄15'28	
min. Earth dist.	1829 Jul 03 02:53	14°♄50'23	0.56494 AU	min. Earth dist.	1830 Jun 14 14:26	24°♄44'33	0.55270 AU
inferior conj	1829 Jul 05 15:51	13°♄15'40	-4°-40'-19	inferior conj	1830 Jun 15 18:45	24°♄04'19	-3°-36'-45
minimum elong	1829 Jul 05 11:05	13°♄23'07	4°39'44	minimum elong	1830 Jun 15 10:53	24°♄15'31	3°34'42
morning rise	1829 Jul 14 00:16	9°♄15'08		morning rise	1830 Jun 24 11:33	20°♄12'48	
direct	1829 Jul 16 16:43	8°♄56'08		direct	1830 Jun 27 10:08	19°♄53'01	
morning max el	1829 Jul 26 10:12	13°♄27'02	19°43'23	morning max el	1830 Jul 08 18:51	25°♄09'47	21°02'02
asc. node	1829 Aug 03 21:49	24°♄29'25			1830 Jul 13 04:46	0°♄	
	1829 Aug 07 02:01	0°♄		asc. node	1830 Jul 21 18:54	13°♄22'53	
morning set	1829 Aug 13 01:37	11°♄35'42		morning set	1830 Jul 28 09:10	26°♄19'01	
					1830 Jul 30 03:47	0°♄	
superior conj	1829 Aug 21 00:24	27°♄37'27	1°45'43				
minimum elong	1829 Aug 21 00:46	27°♄39'18	1°45'43	superior conj	1830 Aug 04 20:37	11°♄52'26	1°43'34
	1829 Aug 22 05:19	0°♄		minimum elong	1830 Aug 04 19:31	11°♄46'45	1°43'31
max. Earth dist.	1829 Aug 26 21:15	8°♄56'36	1.37362 AU	max. Earth dist.	1830 Aug 09 06:37	20°♄48'07	1.35564 AU
evening rise	1829 Aug 30 17:16	15°♄57'50		evening rise	1830 Aug 13 11:55	28°♄56'48	
	1829 Sep 07 22:32	0°♄			1830 Aug 14 01:25	0°♄	
desc. node	1829 Sep 11 07:41	5°♄23'43		desc. node	1830 Aug 29 04:43	25°♄36'06	
	1829 Sep 28 21:56	0°♄			1830 Sep 01 03:35	0°♄	
evening max el	1829 Oct 05 11:25	7°♄14'03	25°26'27	evening max el	1830 Sep 17 23:28	20°♄52'28	26°28'36
retrograde	1829 Oct 17 13:27	14°♄11'03		retrograde	1830 Sep 30 19:29	28°♄05'02	
evening set	1829 Oct 23 10:47	11°♄43'52		evening set	1830 Oct 07 06:39	25°♄26'08	
min. Earth dist.	1829 Oct 27 21:28	6°♄49'10	0.67087 AU	min. Earth dist.	1830 Oct 11 09:47	21°♄08'10	0.66216 AU

inferior conj	1830 Oct 13 00:39	19°♁10'36	-1°-36'-1	inferior conj	1831 Sep 26 17:59	2°♁52'38	-2°-34'-7
minimum elong	1830 Oct 13 03:12	19°♁02'53	1°34'59	minimum elong	1831 Sep 26 22:04	2°♁41'18	2°32'38
asc. node	1830 Oct 17 18:05	14°♁13'34			1831 Sep 29 11:21	30°♁	
morning rise	1830 Oct 19 00:58	13°♁22'35		morning rise	1831 Oct 03 03:30	27°♁18'29	
direct	1830 Oct 21 23:19	12°♁34'06		asc. node	1831 Oct 04 15:08	26°♁48'43	
morning max el	1830 Oct 28 16:01	16°♁15'19	18°36'37	direct	1831 Oct 05 18:40	26°♁41'40	
	1830 Nov 07 21:04	0°♁			1831 Oct 12 02:25	0°♁	
morning set	1830 Nov 18 03:27	16°♁13'59		morning max el	1831 Oct 12 06:54	0°♁11'05	18°05'38
desc. node	1830 Nov 25 03:59	27°♁22'49		morning set	1831 Oct 30 06:17	27°♁13'37	
	1830 Nov 26 19:48	0°♁			1831 Oct 31 22:21	0°♁	
				desc. node	1831 Nov 12 01:02	18°♁06'53	
superior conj	1830 Dec 04 04:14	11°♁33'45	0°-57'-48	superior conj	1831 Nov 13 10:17	20°♁19'37	0°-9'-17
minimum elong	1830 Dec 03 21:02	11°♁05'31	0°56'55	minimum elong	1831 Nov 13 09:07	20°♁14'59	0°09'09
max. Earth dist.	1830 Dec 04 08:08	11°♁49'04	1.45126 AU	behind sun begin	1831 Nov 13 00:09	19°♁39'16	
	1830 Dec 15 21:06	0°♁		behind sun end	1831 Nov 13 18:04	20°♁50'39	
evening rise	1830 Dec 20 02:05	6°♁41'10		max. Earth dist.	1831 Nov 17 02:49	26°♁10'25	1.44903 AU
	1831 Jan 03 23:12	0°♁			1831 Nov 19 13:12	0°♁	
evening max el	1831 Jan 10 23:37	9°♁01'20	18°58'02	evening rise	1831 Nov 29 21:32	16°♁06'20	
asc. node	1831 Jan 13 17:23	11°♁24'14			1831 Dec 08 22:14	0°♁	
retrograde	1831 Jan 17 20:01	12°♁54'00		greatest brilliancy	1831 Dec 17 18:55	13°♁08'17	-0.6m
evening set	1831 Jan 21 01:17	11°♁54'02		evening max el	1831 Dec 25 05:52	22°♁30'22	19°48'06
inferior conj	1831 Jan 26 17:59	6°♁06'41	3°25'31	asc. node	1831 Dec 31 14:24	26°♁44'37	
minimum elong	1831 Jan 26 15:52	6°♁13'18	3°25'11	retrograde	1832 Jan 01 17:21	26°♁51'37	
min. Earth dist.	1831 Jan 28 08:26	4°♁06'23	0.65649 AU	evening set	1832 Jan 05 06:14	25°♁38'27	
morning rise	1831 Feb 01 05:27	29°♁54'12		inferior conj	1832 Jan 10 18:43	19°♁36'42	2°57'52
	1831 Feb 01 02:50	30°♁		minimum elong	1832 Jan 10 16:07	19°♁45'20	2°57'14
direct	1831 Feb 07 17:41	27°♁04'36		min. Earth dist.	1832 Jan 11 19:01	18°♁16'09	0.66745 AU
	1831 Feb 15 06:37	0°♁		morning rise	1832 Jan 16 01:19	13°♁21'50	
morning max el	1831 Feb 20 17:33	4°♁43'51	26°39'35	direct	1832 Jan 22 00:57	10°♁42'41	
desc. node	1831 Feb 21 03:09	5°♁08'14		morning max el	1832 Feb 03 02:31	17°♁54'06	25°26'25
	1831 Mar 12 00:49	0°♁		desc. node	1832 Feb 08 00:12	23°♁19'50	
morning set	1831 Mar 28 15:40	28°♁31'02			1832 Feb 13 06:43	0°♁	
	1831 Mar 29 10:21	0°♁			1832 Mar 04 01:04	0°♁	
max. Earth dist.	1831 Apr 01 22:38	6°♁51'18	1.34588 AU	morning set	1832 Mar 10 07:33	10°♁59'10	
				max. Earth dist.	1832 Mar 14 01:49	17°♁56'20	1.36263 AU
superior conj	1831 Apr 06 08:03	15°♁46'38	0°-53'-44	superior conj	1832 Mar 19 23:25	29°♁23'09	-1°-20'-23
minimum elong	1831 Apr 06 10:45	16°♁00'38	0°53'15	minimum elong	1832 Mar 20 03:17	29°♁42'26	1°19'49
asc. node	1831 Apr 11 16:43	26°♁59'22			1832 Mar 20 06:49	0°♁	
	1831 Apr 13 03:16	0°♁		evening rise	1832 Mar 28 03:40	15°♁57'22	
evening rise	1831 Apr 13 22:38	1°♁40'40		asc. node	1832 Mar 28 13:45	16°♁48'24	
	1831 Apr 30 12:30	0°♁			1832 Apr 04 10:31	0°♁	
evening max el	1831 May 03 05:29	2°♁54'46	21°03'36	evening max el	1832 Apr 14 15:42	14°♁19'50	19°50'11
retrograde	1831 May 14 23:07	8°♁37'51		retrograde	1832 Apr 24 15:34	19°♁09'15	
evening set	1831 May 17 04:40	8°♁26'11		evening set	1832 Apr 26 16:16	18°♁58'12	
desc. node	1831 May 20 02:23	7°♁38'53		inferior conj	1832 May 05 12:03	14°♁57'09	0°08'12
inferior conj	1831 May 26 12:40	4°♁27'58	-1°-51'-8	minimum elong	1832 May 05 12:25	14°♁56'35	0°08'05
minimum elong	1831 May 26 07:28	4°♁35'18	1°49'20	transit begin	1832 May 05 09:00	15°♁01'51	
min. Earth dist.	1831 May 27 02:53	4°♁07'52	0.54917 AU	transit end	1832 May 05 15:50	14°♁51'19	
morning rise	1831 Jun 04 09:54	0°♁26'13		desc. node	1832 May 05 23:24	14°♁39'40	
direct	1831 Jun 07 19:38	0°♁01'10		min. Earth dist.	1832 May 07 16:50	13°♁36'11	0.55535 AU
morning max el	1831 Jun 20 16:59	6°♁10'21	22°37'03	morning rise	1832 May 14 05:22	10°♁27'43	
	1831 Jul 07 05:55	0°♁		direct	1832 May 18 11:22	9°♁47'44	
asc. node	1831 Jul 08 15:57	2°♁44'16		morning max el	1832 Jun 01 08:26	16°♁42'32	24°18'57
morning set	1831 Jul 12 19:43	11°♁11'28			1832 Jun 12 02:07	0°♁	
				asc. node	1832 Jun 24 13:01	22°♁26'20	
superior conj	1831 Jul 20 00:12	26°♁29'12	1°34'58	morning set	1832 Jun 26 07:32	26°♁07'54	
minimum elong	1831 Jul 19 22:10	26°♁18'26	1°34'46		1832 Jun 28 03:08	0°♁	
	1831 Jul 21 16:07	0°♁		superior conj	1832 Jul 03 08:31	11°♁19'38	1°21'07
max. Earth dist.	1831 Jul 23 00:35	2°♁49'22	1.34125 AU	minimum elong	1832 Jul 03 06:07	11°♁06'36	1°20'47
evening rise	1831 Jul 27 21:17	12°♁38'44		max. Earth dist.	1832 Jul 05 03:33	15°♁11'56	1.33095 AU
	1831 Aug 06 08:17	0°♁		evening rise	1832 Jul 10 17:21	26°♁52'12	
desc. node	1831 Aug 16 01:45	15°♁24'15			1832 Jul 12 06:49	0°♁	
	1831 Aug 27 07:18	0°♁		desc. node	1832 Jul 29 16:12	0°♁	
evening max el	1831 Aug 31 11:31	4°♁21'13	27°10'45		1832 Aug 01 22:45	4°♁37'56	
retrograde	1831 Sep 13 20:08	11°♁39'52					
evening set	1831 Sep 20 18:26	8°♁56'43					
min. Earth dist.	1831 Sep 24 14:43	5°♁15'19	0.64985 AU				

evening max el	1832 Aug 12 22:16	17° Υ 28'56	27°25'58			1833 Jul 04 11:57	0° Ω	
retrograde	1832 Aug 26 14:36	24° Υ 46'37		desc. node		1833 Jul 19 19:45	23° Ω 02'56	
evening set	1832 Sep 02 19:01	22° Υ 09'54				1833 Jul 26 04:14	0° Υ	
min. Earth dist.	1832 Sep 06 10:20	19° Υ 01'33	0.63405 AU	evening max el		1833 Jul 26 05:06	0° Υ 02'04	27°09'18
inferior conj	1832 Sep 09 02:08	16° Υ 21'29	-3°-29'-26	retrograde		1833 Aug 09 01:55	7° Υ 16'27	
minimum elong	1832 Sep 09 07:17	16° Υ 08'32	3°27'55	evening set		1833 Aug 16 04:27	4° Υ 58'56	
morning rise	1832 Sep 15 21:54	11° Υ 04'26		min. Earth dist.		1833 Aug 19 19:22	2° Υ 14'46	0.61525 AU
direct	1832 Sep 18 08:35	10° Υ 35'40				1833 Aug 22 08:19	30° Ω	
asc. node	1832 Sep 20 12:11	10° Υ 58'20		inferior conj		1833 Aug 22 21:58	29° Ω 29'25	-4°-17'-14
morning max el	1832 Sep 24 23:02	14° Υ 01'25	17°52'10	minimum elong		1833 Aug 23 03:03	29° Ω 18'07	4°16'12
	1832 Oct 05 23:47	0° Ω		morning rise		1833 Aug 30 04:31	24° Ω 32'59	
morning set	1832 Oct 11 10:26	9° Ω 26'35		direct		1833 Sep 01 13:37	24° Ω 09'20	
	1832 Oct 23 11:17	0° Υ		asc. node		1833 Sep 07 09:14	26° Ω 35'40	
				morning max el		1833 Sep 08 13:30	27° Ω 39'26	17°57'13
superior conj	1832 Oct 23 13:50	0° Υ 10'35	0°35'43			1833 Sep 10 16:35	0° Υ	
minimum elong	1832 Oct 23 17:22	0° Υ 25'10	0°35'13	morning set		1833 Sep 24 09:38	22° Υ 34'12	
desc. node	1832 Oct 28 22:03	8° Υ 53'57				1833 Sep 28 11:22	0° Ω	
max. Earth dist.	1832 Oct 29 19:47	10° Υ 21'13	1.43978 AU	superior conj		1833 Oct 04 20:38	11° Ω 21'58	1°10'02
evening rise	1832 Nov 08 05:57	25° Υ 09'20		minimum elong		1833 Oct 05 01:13	11° Ω 41'54	1°09'30
	1832 Nov 11 09:45	0° Υ		max. Earth dist.		1833 Oct 12 08:38	24° Ω 04'50	1.42463 AU
greatest brilliancy	1832 Dec 01 17:48	29° Υ 28'51	-0.5m			1833 Oct 15 23:50	0° Υ	
	1832 Dec 02 03:28	0° Υ		desc. node		1833 Oct 15 19:04	29° Ω 40'50	
evening max el	1832 Dec 07 06:48	6° Υ 00'37	20°51'59	evening rise		1833 Oct 18 20:12	4° Υ 32'30	
retrograde	1832 Dec 15 15:04	10° Υ 56'54				1833 Nov 04 18:46	0° Υ	
asc. node	1832 Dec 17 11:25	10° Υ 37'50		greatest brilliancy		1833 Nov 05 08:56	14° Υ 12'28	-0.3m
evening set	1832 Dec 19 13:26	9° Υ 28'47		evening max el		1833 Nov 20 02:11	19° Υ 32'15	22°06'08
inferior conj	1832 Dec 24 23:38	3° Υ 15'39	2°21'16	retrograde		1833 Nov 29 11:27	25° Υ 07'15	
minimum elong	1832 Dec 24 21:05	3° Υ 24'23	2°20'26	evening set		1833 Dec 03 21:12	23° Υ 22'37	
min. Earth dist.	1832 Dec 25 11:14	2° Υ 35'52	0.67453 AU	asc. node		1833 Dec 04 08:26	22° Υ 58'54	
	1832 Dec 27 10:15	30° Υ		inferior conj		1833 Dec 09 06:42	17° Υ 01'29	1°37'34
morning rise	1832 Dec 30 04:18	27° Υ 00'27		minimum elong		1833 Dec 09 04:40	17° Υ 08'30	1°36'47
direct	1833 Jan 04 13:13	24° Υ 39'48		min. Earth dist.		1833 Dec 09 06:52	17° Υ 00'54	0.67789 AU
	1833 Jan 14 06:16	0° Υ		morning rise		1833 Dec 14 11:57	10° Υ 47'54	
morning max el	1833 Jan 15 10:46	1° Υ 09'44	24°00'40	direct		1833 Dec 19 05:39	8° Υ 49'43	
desc. node	1833 Jan 24 21:14	12° Υ 20'37		morning max el		1833 Dec 28 21:15	14° Υ 31'49	22°32'27
	1833 Feb 06 06:32	0° Υ		greatest brilliancy		1834 Jan 02 11:00	19° Υ 38'16	-0.3m
morning set	1833 Feb 20 01:40	22° Υ 19'17				1834 Jan 10 08:52	0° Υ	
max. Earth dist.	1833 Feb 23 21:28	29° Υ 01'33	1.38297 AU	desc. node		1834 Jan 11 18:17	1° Υ 56'54	
	1833 Feb 24 10:32	0° Υ				1834 Jan 30 06:14	0° Υ	
				morning set		1834 Jan 31 16:15	2° Υ 18'17	
superior conj	1833 Mar 03 02:31	12° Υ 19'17	-1°-43'-30	max. Earth dist.		1834 Feb 05 17:48	10° Υ 44'48	1.40456 AU
minimum elong	1833 Mar 03 06:45	12° Υ 39'25	1°43'04					
evening rise	1833 Mar 12 01:48	29° Υ 47'50		superior conj		1834 Feb 13 12:54	24° Υ 24'23	-1°-59'-42
	1833 Mar 12 04:17	0° Υ		minimum elong		1834 Feb 13 15:51	24° Υ 37'41	1°59'34
asc. node	1833 Mar 15 10:46	6° Υ 20'32				1834 Feb 16 14:27	0° Υ	
evening max el	1833 Mar 28 12:49	26° Υ 22'59	18°56'01	evening rise		1834 Feb 23 14:04	13° Υ 05'17	
	1833 Apr 03 01:52	0° Υ		asc. node		1834 Mar 02 07:46	25° Υ 30'14	
retrograde	1833 Apr 05 22:52	0° Υ 28'10				1834 Mar 04 23:40	0° Υ	
evening set	1833 Apr 08 03:25	0° Υ 12'43		evening max el		1834 Mar 11 18:11	8° Υ 58'30	18°21'55
	1833 Apr 08 22:18	30° Υ		retrograde		1834 Mar 19 01:27	12° Υ 35'36	
inferior conj	1833 Apr 16 04:27	25° Υ 55'56	1°49'19	evening set		1834 Mar 21 11:27	12° Υ 12'51	
minimum elong	1833 Apr 16 08:09	25° Υ 49'19	1°48'11	inferior conj		1834 Mar 28 18:09	7° Υ 35'17	2°57'19
min. Earth dist.	1833 Apr 19 08:40	23° Υ 41'27	0.56984 AU	minimum elong		1834 Mar 28 21:51	7° Υ 27'34	2°56'31
desc. node	1833 Apr 22 20:25	21° Υ 34'39		min. Earth dist.		1834 Apr 01 04:41	4° Υ 44'53	0.58956 AU
morning rise	1833 Apr 24 08:38	20° Υ 52'34		morning rise		1834 Apr 05 04:21	2° Υ 02'51	
direct	1833 Apr 29 15:57	19° Υ 45'24		desc. node		1834 Apr 09 17:26	0° Υ 27'28	
morning max el	1833 May 13 23:09	27° Υ 10'49	25°53'44	direct		1834 Apr 11 09:46	0° Υ 19'58	
	1833 May 16 16:33	0° Υ		morning max el		1834 Apr 25 18:31	8° Υ 03'39	27°05'54
	1833 Jun 05 07:55	0° Υ				1834 May 12 08:18	0° Υ	
morning set	1833 Jun 10 18:59	11° Υ 02'34		morning set		1834 May 26 04:26	25° Υ 49'54	
asc. node	1833 Jun 11 10:03	12° Υ 22'19				1834 May 28 03:44	0° Υ	
				asc. node		1834 May 29 07:06	2° Υ 27'06	
superior conj	1833 Jun 17 19:27	26° Υ 16'08	1°02'57	max. Earth dist.		1834 Jun 02 01:17	10° Υ 40'04	1.32196 AU
minimum elong	1833 Jun 17 17:10	26° Υ 03'38	1°02'34					
max. Earth dist.	1833 Jun 18 13:00	27° Υ 52'24	1.32455 AU	superior conj		1834 Jun 02 07:13	11° Υ 12'42	0°41'14
	1833 Jun 19 12:20	0° Υ		minimum elong		1834 Jun 02 05:31	11° Υ 03'18	0°40'54
evening rise	1833 Jun 24 20:50	11° Υ 26'39						

evening rise	1834 Jun 09 05:10	26°♃13'34		1835 May 19 13:15	0°♃	
	1834 Jun 11 00:39	0°♃		1835 May 24 16:15	11°♃06'04	
	1834 Jun 28 06:19	0°♃		1835 Jun 03 08:00	0°♃	
desc. node	1834 Jul 06 16:45	10°♃18'48		evening max el	1835 Jun 19 22:37	22°♃51'48 25°01'52
evening max el	1834 Jul 08 05:23	11°♃49'33	26°19'33	desc. node	1835 Jun 23 13:45	25°♃57'43
retrograde	1834 Jul 22 05:03	19°♃01'14		retrograde	1835 Jul 03 22:20	29°♃58'10
evening set	1834 Jul 28 17:59	17°♃15'26		evening set	1835 Jul 09 08:03	28°♃51'10
min. Earth dist.	1834 Aug 01 18:17	14°♃40'04	0.59469 AU	min. Earth dist.	1835 Jul 14 10:10	26°♃05'34 0.57474 AU
inferior conj	1834 Aug 05 01:53	12°♃06'35	-4°-49'-45	inferior conj	1835 Jul 17 10:41	24°♃04'05 -4°-55'-12
minimum elong	1834 Aug 05 04:50	12°♃00'51	4°49'30	minimum elong	1835 Jul 17 09:02	24°♃06'52 4°55'08
morning rise	1834 Aug 12 19:05	7°♃33'22		morning rise	1835 Jul 25 13:48	19°♃53'20
direct	1834 Aug 15 05:18	7°♃12'42		direct	1835 Jul 28 03:17	19°♃34'13
morning max el	1834 Aug 22 23:12	10°♃56'47	18°21'58	morning max el	1835 Aug 06 01:03	23°♃44'24 19°07'34
asc. node	1834 Aug 25 06:18	13°♃26'07			1835 Aug 11 07:00	0°♃
	1834 Sep 04 13:55	0°♃		asc. node	1835 Aug 12 03:23	1°♃14'40
morning set	1834 Sep 07 22:25	6°♃20'45		morning set	1835 Aug 22 20:47	20°♃35'39
					1835 Aug 27 14:27	0°♃
superior conj	1834 Sep 17 03:25	23°♃44'10	1°32'12	superior conj	1835 Aug 31 04:37	7°♃01'28 1°43'27
minimum elong	1834 Sep 17 06:46	23°♃59'32	1°31'56	minimum elong	1835 Aug 31 06:03	7°♃08'22 1°43'24
	1834 Sep 20 14:27	0°♃		max. Earth dist.	1835 Sep 06 19:27	19°♃25'06 1.38501 AU
max. Earth dist.	1834 Sep 24 15:53	7°♃06'26	1.40552 AU	evening rise	1835 Sep 10 16:00	26°♃15'29
evening rise	1834 Sep 29 05:58	14°♃49'52			1835 Sep 12 20:18	0°♃
desc. node	1834 Oct 02 16:05	20°♃23'43		desc. node	1835 Sep 19 13:07	10°♃58'54
	1834 Oct 08 19:37	0°♃			1835 Oct 02 09:45	0°♃
	1834 Oct 30 19:25	0°♃		evening max el	1835 Oct 16 05:17	16°♃42'44 24°44'24
evening max el	1834 Nov 02 16:57	3°♃05'34	23°25'43	retrograde	1835 Oct 27 18:53	23°♃27'03
retrograde	1834 Nov 13 05:05	9°♃18'30		evening set	1835 Nov 02 07:47	21°♃08'31
evening set	1834 Nov 18 03:52	7°♃16'36		min. Earth dist.	1835 Nov 06 22:58	15°♃53'11 0.67433 AU
asc. node	1834 Nov 21 05:29	4°♃00'13		inferior conj	1835 Nov 07 19:59	14°♃43'24 0°-5'-39
min. Earth dist.	1834 Nov 23 03:33	1°♃27'20	0.67775 AU	minimum elong	1835 Nov 07 20:08	14°♃42'56 0°05'36
inferior conj	1834 Nov 23 14:03	0°♃51'19	0°48'09	transit begin	1835 Nov 07 17:33	14°♃51'31
minimum elong	1834 Nov 23 12:57	0°♃55'07	0°47'41	transit end	1835 Nov 07 22:43	14°♃34'21
	1834 Nov 24 05:05	30°♃		asc. node	1835 Nov 08 02:34	14°♃21'36
morning rise	1834 Nov 28 22:09	24°♃41'26		morning rise	1835 Nov 13 08:56	8°♃39'36
direct	1834 Dec 03 01:21	23°♃06'07		direct	1835 Nov 16 23:17	7°♃25'05
morning max el	1834 Dec 11 13:23	28°♃02'52	21°09'53	morning max el	1835 Nov 24 13:07	11°♃44'37 19°58'36
	1834 Dec 13 09:25	0°♃		greatest brilliancy	1835 Dec 01 19:20	20°♃36'06 -0.6m
greatest brilliancy	1834 Dec 16 21:33	4°♃11'34	-0.5m		1835 Dec 08 08:41	0°♃
desc. node	1834 Dec 29 15:20	21°♃58'14		desc. node	1835 Dec 16 12:22	12°♃17'38
	1835 Jan 03 23:54	0°♃		morning set	1835 Dec 20 22:47	19°♃06'28
morning set	1835 Jan 11 02:44	10°♃59'20			1835 Dec 27 22:34	0°♃
max. Earth dist.	1835 Jan 18 20:14	23°♃22'12	1.42437 AU	max. Earth dist.	1836 Jan 01 05:57	6°♃49'19 1.43988 AU
	1835 Jan 22 20:20	0°♃				
superior conj	1835 Jan 26 01:17	5°♃25'44	-2°-4'-33	superior conj	1836 Jan 06 11:31	15°♃15'16 -1°-53'-5
minimum elong	1835 Jan 26 00:28	5°♃22'17	2°04'33	minimum elong	1836 Jan 06 05:18	14°♃49'57 1°52'43
evening rise	1835 Feb 06 12:38	25°♃40'58			1836 Jan 15 08:33	0°♃
	1835 Feb 08 22:09	0°♃		evening rise	1836 Jan 19 17:08	7°♃25'57
asc. node	1835 Feb 17 04:48	14°♃10'18			1836 Feb 02 10:56	0°♃
evening max el	1835 Feb 23 04:41	21°♃58'08	18°07'48	asc. node	1836 Feb 04 01:51	2°♃11'07
retrograde	1835 Mar 01 20:45	25°♃22'58		evening max el	1836 Feb 06 17:15	5°♃13'23 18°13'00
evening set	1835 Mar 04 11:53	24°♃51'14		retrograde	1836 Feb 13 04:17	8°♃39'40
inferior conj	1835 Mar 11 03:34	19°♃52'32	3°33'17	evening set	1836 Feb 16 00:25	7°♃57'49
minimum elong	1835 Mar 11 05:30	19°♃47'53	3°33'04	inferior conj	1836 Feb 22 04:44	2°♃38'53 3°44'05
min. Earth dist.	1835 Mar 14 07:42	16°♃50'34	0.61097 AU	minimum elong	1836 Feb 22 04:41	2°♃39'01 3°44'05
morning rise	1835 Mar 17 20:10	14°♃00'38			1836 Feb 24 15:20	30°♃
direct	1835 Mar 24 15:07	11°♃43'10		min. Earth dist.	1836 Feb 24 19:34	29°♃48'52 0.63123 AU
desc. node	1835 Mar 27 14:29	12°♃07'44		morning rise	1836 Feb 28 06:59	26°♃35'39
morning max el	1835 Apr 07 20:21	19°♃36'56	27°44'23	direct	1836 Mar 06 05:39	23°♃54'09
	1835 Apr 16 16:49	0°♃		desc. node	1836 Mar 13 11:32	26°♃20'23
	1835 May 05 04:06	0°♃			1836 Mar 18 05:03	0°♃
morning set	1835 May 10 10:03	10°♃23'55		morning max el	1836 Mar 20 03:12	1°♃49'56 27°45'27
asc. node	1835 May 16 04:08	22°♃36'26			1836 Apr 09 22:23	0°♃
max. Earth dist.	1835 May 16 12:33	23°♃22'11	1.32321 AU	morning set	1836 Apr 23 09:30	24°♃36'02
					1836 Apr 26 01:04	0°♃
superior conj	1835 May 17 18:10	26°♃03'53	0°16'41	max. Earth dist.	1836 Apr 28 18:40	5°♃44'07 1.32855 AU
minimum elong	1835 May 17 17:24	25°♃59'44	0°16'32			

superior conj	1836 May 01 02:28	10°♄42'51	0°-9'-57	superior conj	1837 Apr 15 06:10	25°♃03'33	0°-37'-43
minimum elong	1836 May 01 02:57	10°♄45'27	0°09'52	minimum elong	1837 Apr 15 08:04	25°♃13'32	0°37'22
behind sun begin	1836 Apr 30 22:48	10°♄23'05			1837 Apr 17 14:11	0°♄	
behind sun end	1836 May 01 07:06	11°♄07'51		asc. node	1837 Apr 18 22:13	2°♄50'19	
asc. node	1836 May 02 01:10	12°♄45'26		evening rise	1837 Apr 22 14:54	10°♄39'30	
evening rise	1836 May 08 04:05	25°♄56'41			1837 May 02 17:28	0°♄	
	1836 May 10 02:38	0°♄		evening max el	1837 May 13 05:57	13°♄59'09	21°53'19
	1836 May 28 07:26	0°♄		retrograde	1837 May 25 19:54	20°♄10'15	
evening max el	1836 May 31 12:27	3°♄24'55	23°28'05	desc. node	1837 May 27 07:48	20°♄05'12	
desc. node	1836 Jun 09 10:48	9°♄23'36		evening set	1837 May 28 11:55	19°♄54'23	
retrograde	1836 Jun 14 03:10	10°♄13'26		min. Earth dist.	1837 Jun 06 10:22	16°♄05'36	0.55008 AU
evening set	1836 Jun 18 01:12	9°♄39'46		inferior conj	1837 Jun 06 20:51	15°♄50'56	-2°-55'-49
min. Earth dist.	1836 Jun 24 22:40	6°♄28'47	0.55876 AU	minimum elong	1837 Jun 06 13:25	16°♄01'20	2°53'33
inferior conj	1836 Jun 26 23:24	5°♄16'20	-4°-19'-24	morning rise	1837 Jun 15 16:15	11°♄57'25	
minimum elong	1836 Jun 26 16:45	5°♄26'17	4°18'10	direct	1837 Jun 18 18:57	11°♄35'59	
morning rise	1836 Jul 05 11:33	1°♄21'12		morning max el	1837 Jun 30 19:57	17°♄15'02	21°40'50
direct	1836 Jul 08 06:05	1°♄02'15			1837 Jul 10 19:43	0°♄	
morning max el	1836 Jul 18 16:16	5°♄51'57	20°14'28	asc. node	1837 Jul 15 21:28	8°♄53'27	
asc. node	1836 Jul 29 00:26	19°♄47'18		morning set	1837 Jul 21 10:39	19°♄57'26	
	1836 Aug 03 11:57	0°♄			1837 Jul 26 05:13	0°♄	
morning set	1836 Aug 06 01:38	5°♄09'58					
				superior conj	1837 Jul 28 18:39	5°♄22'53	1°40'37
superior conj	1836 Aug 13 19:01	20°♄58'13	1°45'41	minimum elong	1837 Jul 28 17:05	5°♄14'43	1°40'30
minimum elong	1836 Aug 13 18:42	20°♄56'38	1°45'40	max. Earth dist.	1837 Aug 01 13:50	13°♄12'02	1.34907 AU
	1836 Aug 18 08:40	0°♄		evening rise	1837 Aug 06 01:25	22°♄01'53	
max. Earth dist.	1836 Aug 19 00:55	1°♄18'08	1.36558 AU		1837 Aug 10 08:06	0°♄	
evening rise	1836 Aug 23 00:00	8°♄43'30		desc. node	1837 Aug 23 07:11	21°♄24'08	
	1836 Sep 04 13:18	0°♄			1837 Aug 29 07:55	0°♄	
desc. node	1836 Sep 05 10:09	1°♄21'12		evening max el	1837 Sep 10 05:39	13°♄58'56	26°49'34
	1836 Sep 27 08:01	0°♄		retrograde	1837 Sep 23 07:34	21°♄14'20	
evening max el	1836 Sep 27 17:18	0°♄22'46	25°54'58	evening set	1837 Sep 29 23:53	18°♄32'50	
retrograde	1836 Oct 10 03:56	7°♄27'54		min. Earth dist.	1837 Oct 04 00:06	14°♄30'28	0.65733 AU
evening set	1836 Oct 16 07:11	4°♄55'21		inferior conj	1837 Oct 05 20:04	12°♄21'52	-2°00'-48
min. Earth dist.	1836 Oct 20 14:39	0°♄15'52	0.66756 AU	minimum elong	1837 Oct 05 23:17	12°♄12'26	1°59'32
	1836 Oct 20 19:44	30°♄		morning rise	1837 Oct 12 00:06	6°♄39'11	
inferior conj	1836 Oct 21 22:41	28°♄35'02	-1°-2'-31	asc. node	1837 Oct 11 20:41	6°♄43'39	
minimum elong	1836 Oct 22 00:19	28°♄29'53	1°01'50	direct	1837 Oct 14 19:10	5°♄55'56	
asc. node	1836 Oct 24 23:38	24°♄59'42		morning max el	1837 Oct 21 09:00	9°♄30'56	18°21'22
morning rise	1836 Oct 27 18:20	22°♄40'10			1837 Nov 04 16:08	0°♄	
direct	1836 Oct 30 21:54	21°♄43'10		morning set	1837 Nov 09 15:52	8°♄04'58	
morning max el	1836 Nov 06 20:15	25°♄35'30	19°01'55	desc. node	1837 Nov 19 06:27	23°♄31'00	
	1836 Nov 10 15:24	0°♄			1837 Nov 23 08:41	0°♄	
morning set	1836 Nov 29 05:44	27°♄54'02					
	1836 Nov 30 13:56	0°♄		superior conj	1837 Nov 24 23:19	2°♄32'14	0°-37'-30
desc. node	1836 Dec 02 09:25	2°♄50'06		minimum elong	1837 Nov 24 18:27	2°♄13'07	0°36'52
max. Earth dist.	1836 Dec 13 21:50	20°♄53'31	1.44919 AU	max. Earth dist.	1837 Nov 26 17:03	5°♄16'24	1.45125 AU
				evening rise	1837 Dec 11 06:49	28°♄06'59	
superior conj	1836 Dec 15 22:03	24°♄03'38	-1°-22'-38		1837 Dec 12 11:38	0°♄	
minimum elong	1836 Dec 15 13:17	23°♄28'59	1°21'43	greatest brilliancy	1837 Dec 25 05:09	19°♄44'16	-0.7m
	1836 Dec 19 16:01	0°♄			1838 Jan 01 16:37	0°♄	
evening rise	1836 Dec 30 23:39	18°♄14'31		evening max el	1838 Jan 03 14:01	2°♄06'03	19°17'25
	1837 Jan 07 04:27	0°♄		asc. node	1838 Jan 07 19:57	5°♄26'01	
evening max el	1837 Jan 20 05:10	18°♄37'51	18°36'36	retrograde	1838 Jan 10 15:50	6°♄09'30	
asc. node	1837 Jan 20 22:54	19°♄21'11		evening set	1838 Jan 14 00:15	5°♄03'55	
retrograde	1837 Jan 26 19:47	22°♄17'33			1838 Jan 18 23:16	30°♄	
evening set	1837 Jan 29 21:30	21°♄24'26		inferior conj	1838 Jan 19 14:53	29°♄10'01	3°15'00
inferior conj	1837 Feb 04 17:39	15°♄46'54	3°36'21	minimum elong	1838 Jan 19 12:29	29°♄17'43	3°14'32
minimum elong	1837 Feb 04 16:07	15°♄51'31	3°36'12	min. Earth dist.	1838 Jan 20 23:03	27°♄26'36	0.66173 AU
min. Earth dist.	1837 Feb 06 16:56	13°♄25'42	0.64844 AU	morning rise	1838 Jan 24 23:56	22°♄56'31	
morning rise	1837 Feb 10 09:29	9°♄37'08		direct	1838 Jan 31 07:13	20°♄10'21	
direct	1837 Feb 17 03:23	6°♄46'29		morning max el	1838 Feb 12 22:10	27°♄38'38	26°10'36
desc. node	1837 Feb 28 08:34	12°♄30'30			1838 Feb 15 03:47	0°♄	
morning max el	1837 Mar 02 12:34	14°♄34'28	27°11'54	desc. node	1838 Feb 15 05:37	0°♄05'01	
	1837 Mar 15 02:35	0°♄			1838 Mar 08 19:16	0°♄	
	1837 Apr 02 14:33	0°♄		morning set	1838 Mar 21 01:25	21°♄16'01	
morning set	1837 Apr 06 23:56	8°♄17'25		max. Earth dist.	1838 Mar 25 02:04	28°♄56'07	1.35259 AU
max. Earth dist.	1837 Apr 11 16:02	17°♄36'16	1.33830 AU		1838 Mar 25 15:10	0°♄	

superior conj	1838 Mar 30 02:51	8°♃58'17	-1°-5'-19			1839 Mar 01 11:51	0°♃		
minimum elong	1838 Mar 30 06:07	9°♃14'53	1°04'46	morning set		1839 Mar 03 08:51	3°♃17'36		
asc. node	1838 Apr 05 19:15	22°♃46'29		max. Earth dist.		1839 Mar 07 01:36	9°♃58'31	1.37102 AU	
evening rise	1838 Apr 06 22:39	25°♃07'42							
	1838 Apr 09 08:15	0°♃		superior conj		1839 Mar 13 13:29	22°♃18'50	-1°-30'-49	
evening max el	1838 Apr 25 09:12	25°♃01'05	20°30'00	minimum elong		1839 Mar 13 17:39	22°♃39'12	1°30'16	
	1838 May 03 12:36	0°♃				1839 Mar 17 10:38	0°♃		
retrograde	1838 May 06 09:02	0°♃21'04		evening rise		1839 Mar 22 01:07	9°♃14'31		
evening set	1838 May 08 11:05	0°♃10'21		asc. node		1839 Mar 23 16:16	12°♃29'13		
	1838 May 09 07:39	30°♃				1839 Apr 02 13:01	0°♃		
desc. node	1838 May 14 04:47	28°♃06'55		evening max el		1839 Apr 08 00:10	6°♃42'25	19°24'34	
inferior conj	1838 May 17 15:12	26°♃12'37	0°-59'-59	retrograde		1839 Apr 17 07:11	11°♃11'49		
minimum elong	1838 May 17 12:21	26°♃16'43	0°58'57	evening set		1839 Apr 19 08:45	10°♃59'28		
min. Earth dist.	1838 May 18 22:58	25°♃26'36	0.55069 AU	inferior conj		1839 Apr 27 20:50	6°♃52'29	0°54'45	
morning rise	1838 May 26 12:03	22°♃01'14		minimum elong		1839 Apr 27 23:03	6°♃48'51	0°54'00	
direct	1838 May 30 05:27	21°♃31'19		min. Earth dist.		1839 Apr 30 13:37	5°♃07'16	0.56061 AU	
morning max el	1838 Jun 12 14:27	28°♃00'37	23°20'25	desc. node		1839 May 01 01:49	4°♃48'12		
	1838 Jun 14 14:11	0°♃		morning rise		1839 May 06 09:28	2°♃08'23		
asc. node	1838 Jul 02 18:31	28°♃24'45		direct		1839 May 11 01:46	1°♃18'33		
	1838 Jul 03 13:22	0°♃		morning max el		1839 May 25 05:03	8°♃28'28	25°01'15	
morning set	1838 Jul 05 21:56	4°♃52'40				1839 Jun 10 03:21	0°♃		
				asc. node		1839 Jun 19 15:33	18°♃13'36		
superior conj	1838 Jul 13 00:31	20°♃06'32	1°29'39	morning set		1839 Jun 20 09:47	19°♃49'23		
minimum elong	1838 Jul 12 22:15	19°♃54'28	1°29'24			1839 Jun 25 03:07	0°♃		
max. Earth dist.	1838 Jul 15 12:04	25°♃23'30	1.33636 AU						
	1838 Jul 17 17:02	0°♃		superior conj		1839 Jun 27 10:10	5°♃00'41	1°13'53	
evening rise	1838 Jul 20 15:45	5°♃58'38		minimum elong		1839 Jun 27 07:46	4°♃47'33	1°13'31	
	1838 Aug 02 22:55	0°♃		max. Earth dist.		1839 Jun 28 18:06	7°♃54'26	1.32767 AU	
desc. node	1838 Aug 10 04:10	10°♃59'26		evening rise		1839 Jul 04 15:18	20°♃22'06		
evening max el	1838 Aug 23 17:23	27°♃20'32	27°20'53			1839 Jul 09 12:03	0°♃		
	1838 Aug 26 17:52	0°♃				1839 Jul 28 02:46	0°♃		
retrograde	1838 Sep 06 05:24	4°♃38'53		desc. node		1839 Jul 28 01:10	29°♃54'44		
evening set	1838 Sep 13 07:18	1°♃56'52		evening max el		1839 Aug 06 02:31	10°♃14'14	27°22'55	
	1838 Sep 15 13:22	30°♃		retrograde		1839 Aug 19 21:05	17°♃31'22		
min. Earth dist.	1838 Sep 17 01:07	28°♃30'30	0.64354 AU	evening set		1839 Aug 27 01:59	15°♃00'46		
inferior conj	1838 Sep 19 09:49	25°♃59'19	-2°-58'-8	min. Earth dist.		1839 Aug 30 16:06	12°♃04'30	0.62634 AU	
minimum elong	1838 Sep 19 14:26	25°♃46'59	2°56'36	inferior conj		1839 Sep 02 13:06	9°♃20'02	-3°-51'-1	
morning rise	1838 Sep 25 23:35	20°♃32'12		minimum elong		1839 Sep 02 18:24	9°♃07'20	3°49'40	
direct	1838 Sep 28 12:36	19°♃59'07		morning rise		1839 Sep 09 13:28	4°♃11'44		
asc. node	1838 Sep 28 17:42	19°♃59'21		direct		1839 Sep 11 23:05	3°♃45'33		
morning max el	1838 Oct 05 00:48	23°♃25'38	17°57'49	asc. node		1839 Sep 15 14:45	4°♃47'46		
	1838 Oct 10 06:21	0°♃		morning max el		1839 Sep 18 16:40	7°♃12'04	17°52'03	
morning set	1838 Oct 22 06:14	19°♃38'34				1839 Oct 03 12:31	0°♃		
	1838 Oct 28 09:50	0°♃		morning set		1839 Oct 04 19:10	2°♃16'27		
superior conj	1838 Nov 04 13:00	11°♃42'03	0°10'49	superior conj		1839 Oct 16 04:09	22°♃07'29	0°51'45	
minimum elong	1838 Nov 04 14:15	11°♃47'06	0°10'38	minimum elong		1839 Oct 16 08:31	22°♃25'56	0°51'11	
behind sun begin	1838 Nov 04 06:25	11°♃15'27				1839 Oct 20 21:37	0°♃		
behind sun end	1838 Nov 04 22:05	12°♃18'42		max. Earth dist.		1839 Oct 23 02:51	3°♃36'58	1.43389 AU	
desc. node	1838 Nov 06 03:30	14°♃17'06		desc. node		1839 Oct 24 00:31	5°♃04'31		
max. Earth dist.	1838 Nov 09 11:49	19°♃37'26	1.44591 AU	evening rise		1839 Oct 31 04:31	16°♃24'27		
	1838 Nov 16 02:27	0°♃				1839 Nov 09 02:40	0°♃		
evening rise	1838 Nov 20 19:53	7°♃18'55		greatest brilliancy		1839 Nov 25 15:06	23°♃15'58	-0.4m	
	1838 Dec 05 20:12	0°♃		evening max el		1839 Nov 30 16:28	29°♃06'05	21°22'31	
greatest brilliancy	1838 Dec 11 05:43	7°♃38'49	-0.6m			1839 Dec 01 14:13	0°♃		
evening max el	1838 Dec 17 18:03	15°♃35'42	20°13'37	retrograde		1839 Dec 09 11:12	4°♃19'17		
retrograde	1838 Dec 25 13:42	20°♃11'20		asc. node		1839 Dec 12 13:59	3°♃25'28		
asc. node	1838 Dec 25 16:57	20°♃11'14		evening set		1839 Dec 13 14:05	2°♃44'23		
evening set	1838 Dec 29 06:25	18°♃51'51				1839 Dec 16 07:23	30°♃		
inferior conj	1839 Jan 03 17:41	12°♃44'35	2°43'19	inferior conj		1839 Dec 18 23:47	26°♃27'12	2°03'33	
minimum elong	1839 Jan 03 15:03	12°♃53'30	2°42'34	minimum elong		1839 Dec 18 21:24	26°♃35'26	2°02'42	
min. Earth dist.	1839 Jan 04 12:18	11°♃41'45	0.67096 AU	min. Earth dist.		1839 Dec 19 06:24	26°♃04'20	0.67632 AU	
morning rise	1839 Jan 08 23:08	6°♃29'18		morning rise		1839 Dec 24 04:23	20°♃12'13		
direct	1839 Jan 14 16:32	3°♃57'36		direct		1839 Dec 29 06:42	18°♃00'54		
morning max el	1839 Jan 26 06:53	10°♃52'41	24°50'52	morning max el		1840 Jan 08 15:48	24°♃11'33	23°22'56	
	1839 Feb 02 02:40	18°♃39'51				1840 Jan 13 20:03	0°♃		
desc. node	1839 Feb 10 12:55	0°♃		greatest brilliancy		1840 Jan 14 04:03	0°♃24'26	-0.2m	

desc. node	1840 Jan 19 23:44	7°♁57'35			1841 Jan 07 09:54	0°♁		
	1840 Feb 03 23:40	0°♁		morning set	1841 Jan 22 18:03	23°♁29'13		
morning set	1840 Feb 12 16:01	14°♁05'54			1841 Jan 26 18:14	0°♁		
max. Earth dist.	1840 Feb 16 20:22	21°♁15'51	1.39211 AU	max. Earth dist.	1841 Jan 28 18:24	3°♁19'37	1.41331 AU	
	1840 Feb 21 17:58	0°♁						
superior conj	1840 Feb 24 10:09	4°♁55'31	-1°-51'-27	superior conj	1841 Feb 05 11:52	16°♁35'22	-2°-3'-26	
minimum elong	1840 Feb 24 14:06	5°♁13'54	1°51'09	minimum elong	1841 Feb 05 13:33	16°♁42'46	2°03'25	
evening rise	1840 Mar 04 19:34	22°♁52'48		evening rise	1841 Feb 12 22:03	0°♁		
	1840 Mar 08 12:58	0°♁		asc. node	1841 Feb 16 02:30	5°♁53'27		
asc. node	1840 Mar 09 13:18	1°♁53'20			1841 Feb 24 10:21	20°♁51'42		
evening max el	1840 Mar 21 01:18	19°♁01'36	18°39'04	evening max el	1841 Mar 02 16:52	0°♁		
retrograde	1840 Mar 28 22:38	22°♁52'48		retrograde	1841 Mar 04 09:22	1°♁49'15	18°13'34	
evening set	1840 Mar 31 05:22	22°♁34'38		retrograde	1841 Mar 11 08:38	5°♁18'51		
inferior conj	1840 Apr 07 22:22	18°♁09'40	2°22'21	evening set	1841 Mar 13 20:59	4°♁52'22		
minimum elong	1840 Apr 08 02:25	18°♁01'58	2°21'15	inferior conj	1841 Mar 20 20:53	0°♁05'58	3°16'02	
min. Earth dist.	1840 Apr 11 07:22	15°♁36'50	0.57776 AU	minimum elong	1841 Mar 20 23:56	29°♁59'12	3°15'31	
morning rise	1840 Apr 15 19:06	12°♁52'32			1841 Mar 20 23:34	30°♁		
desc. node	1840 Apr 16 22:51	12°♁23'05		min. Earth dist.	1841 Mar 24 06:00	27°♁07'33	0.59870 AU	
direct	1840 Apr 21 12:38	11°♁30'29		morning rise	1841 Mar 27 23:21	24°♁24'24		
morning max el	1840 May 05 21:28	19°♁05'53	26°27'53	direct	1841 Mar 27 23:21	24°♁24'24		
	1840 May 15 02:23	0°♁		desc. node	1841 Apr 03 12:01	22°♁25'47		
	1840 Jun 01 14:05	0°♁		morning max el	1841 Apr 03 19:55	22°♁26'05		
morning set	1840 Jun 03 20:37	4°♁42'13			1841 Apr 17 13:29	0°♁		
asc. node	1840 Jun 05 12:36	8°♁14'25		morning max el	1841 Apr 17 19:20	0°♁14'20	27°26'36	
					1841 May 09 02:29	0°♁		
superior conj	1840 Jun 10 21:44	19°♁58'45	0°54'08	morning set	1841 May 19 04:41	19°♁24'34		
minimum elong	1840 Jun 10 19:38	19°♁47'16	0°53'46	asc. node	1841 May 23 09:39	28°♁21'39		
max. Earth dist.	1840 Jun 11 05:04	20°♁39'08	1.32296 AU		1841 May 24 03:44	0°♁		
	1840 Jun 15 11:58	0°♁		max. Earth dist.	1841 May 25 17:19	3°♁25'42	1.32208 AU	
evening rise	1840 Jun 17 21:10	5°♁03'23						
	1840 Jul 01 04:24	0°♁		superior conj	1841 May 26 09:23	4°♁53'55	0°31'09	
desc. node	1840 Jul 13 22:09	17°♁53'30		minimum elong	1841 May 26 08:02	4°♁46'31	0°30'52	
evening max el	1840 Jul 18 06:46	22°♁28'51	26°52'02	evening rise	1841 Jun 02 06:57	19°♁53'47		
retrograde	1840 Aug 01 05:25	29°♁42'40			1841 Jun 07 05:48	0°♁		
evening set	1840 Aug 08 03:33	27°♁37'20		evening max el	1841 Jun 26 09:57	0°♁		
min. Earth dist.	1840 Aug 11 20:52	24°♁58'54	0.60658 AU	desc. node	1841 Jun 30 04:10	3°♁57'06	25°49'22	
inferior conj	1840 Aug 15 02:35	22°♁16'05	-4°-33'-33	retrograde	1841 Jun 30 19:10	4°♁32'13		
minimum elong	1840 Aug 15 07:04	22°♁06'39	4°32'51	evening set	1841 Jul 14 04:30	11°♁06'34		
morning rise	1840 Aug 22 13:45	17°♁29'19		min. Earth dist.	1841 Jul 20 07:18	9°♁37'26		
direct	1840 Aug 24 22:49	17°♁07'18		inferior conj	1841 Jul 24 16:35	6°♁59'41	0.58597 AU	
morning max el	1840 Sep 01 05:30	20°♁42'27	18°05'13	minimum elong	1841 Jul 27 22:44	4°♁37'45	-4°-56'-16	
asc. node	1840 Sep 01 11:49	20°♁57'58		morning rise	1841 Jul 27 23:59	4°♁35'27	4°56'13	
	1840 Sep 08 05:33	0°♁			1841 Jul 27 23:59	4°♁35'27	4°56'13	
morning set	1840 Sep 17 00:41	15°♁41'49		direct	1841 Aug 04 20:12	0°♁14'02		
	1840 Sep 24 18:28	0°♁			1841 Aug 05 23:37	30°♁		
				morning max el	1841 Aug 07 07:37	29°♁54'07		
superior conj	1840 Sep 26 21:43	3°♁50'18	1°20'53		1841 Aug 08 15:09	0°♁		
minimum elong	1840 Sep 27 01:57	4°♁09'08	1°20'27	morning max el	1841 Aug 15 12:10	3°♁48'01	18°38'42	
max. Earth dist.	1840 Oct 04 12:44	17°♁01'27	1.41682 AU	asc. node	1841 Aug 19 08:53	8°♁14'51		
evening rise	1840 Oct 10 01:49	26°♁07'16		morning set	1841 Aug 31 18:01	29°♁41'56		
desc. node	1840 Oct 09 21:31	25°♁50'02			1841 Aug 31 21:44	0°♁		
	1840 Oct 12 12:17	0°♁		superior conj	1841 Sep 09 13:01	16°♁37'44	1°38'12	
	1840 Nov 01 22:27	0°♁		minimum elong	1841 Sep 09 15:34	16°♁49'43	1°38'02	
greatest brilliancy	1840 Nov 07 12:13	7°♁09'05	-0.3m	max. Earth dist.	1841 Sep 16 18:12	29°♁44'54	1.39684 AU	
evening max el	1840 Nov 12 09:41	12°♁38'08	22°39'49		1841 Sep 16 21:39	0°♁		
retrograde	1840 Nov 22 06:33	18°♁29'57		evening rise	1841 Sep 20 21:56	6°♁53'55		
evening set	1840 Nov 26 21:34	16°♁38'15		desc. node	1841 Sep 26 18:32	16°♁30'19		
asc. node	1840 Nov 28 11:02	15°♁09'17			1841 Oct 05 13:49	0°♁		
min. Earth dist.	1840 Dec 02 02:51	10°♁29'58	0.67818 AU	evening max el	1841 Oct 25 23:21	26°♁13'54	23°59'50	
inferior conj	1840 Dec 02 07:12	10°♁14'57	1°17'15		1841 Oct 30 07:05	0°♁		
minimum elong	1840 Dec 02 05:31	10°♁20'46	1°16'34	retrograde	1841 Nov 05 22:31	2°♁40'37		
morning rise	1840 Dec 07 13:22	4°♁02'27		evening set	1841 Nov 11 03:15	0°♁31'36		
direct	1840 Dec 12 00:47	2°♁13'52			1841 Nov 11 17:27	30°♁		
morning max el	1840 Dec 21 04:07	7°♁36'15	21°56'12	asc. node	1841 Nov 15 08:06	25°♁47'30		
greatest brilliancy	1840 Dec 25 21:39	12°♁56'11	-0.4m	min. Earth dist.	1841 Nov 15 23:16	24°♁56'38	0.67670 AU	
desc. node	1841 Jan 05 20:47	27°♁45'32		inferior conj	1841 Nov 16 14:10	24°♁06'09	0°25'47	
				minimum elong	1841 Nov 16 13:33	24°♁08'14	0°25'32	
				morning rise	1841 Nov 22 00:04	17°♁58'35		

direct	1841 Nov 25 21:42	16°♌32'14		morning rise	1842 Nov 06 10:31	1°♌57'54	
morning max el	1841 Dec 03 23:16	21°♌11'32	20°37'59	direct	1842 Nov 09 20:03	0°♌51'18	
greatest brilliancy	1841 Dec 09 23:37	28°♌16'00	-0.5m	morning max el	1842 Nov 17 02:21	4°♌57'37	19°32'39
	1841 Dec 11 07:04	0°♌		greatest brilliancy	1842 Nov 25 15:08	15°♌43'45	-0.6m
desc. node	1841 Dec 23 17:50	17°♌55'29			1842 Dec 05 04:39	0°♌	
	1841 Dec 31 15:58	0°♌		desc. node	1842 Dec 10 14:51	8°♌20'46	
morning set	1842 Jan 01 19:41	1°♌47'25		morning set	1842 Dec 11 17:19	10°♌03'07	
max. Earth dist.	1842 Jan 11 00:22	16°♌21'06	1.43165 AU		1842 Dec 24 11:33	0°♌	
				max. Earth dist.	1842 Dec 24 13:26	0°♌07'28	1.44468 AU
superior conj	1842 Jan 17 13:28	27°♌06'51	-2°-1'-56	superior conj	1842 Dec 28 12:33	6°♌26'22	-1°-42'-27
minimum elong	1842 Jan 17 10:23	26°♌53'59	2°01'52	minimum elong	1842 Dec 28 04:32	5°♌54'15	1°41'47
	1842 Jan 19 06:40	0°♌		evening rise	1843 Jan 11 13:25	29°♌29'46	
evening rise	1842 Jan 29 17:55	18°♌08'33			1843 Jan 11 20:37	0°♌	
	1842 Feb 05 12:24	0°♌		asc. node	1843 Jan 29 04:27	26°♌56'51	
asc. node	1842 Feb 11 07:24	9°♌16'23		evening max el	1843 Jan 30 09:38	28°♌15'40	18°20'49
evening max el	1842 Feb 15 21:09	14°♌56'33	18°07'40		1843 Feb 01 08:39	0°♌	
retrograde	1842 Feb 22 09:45	18°♌20'14		retrograde	1843 Feb 05 21:16	1°♌46'35	
evening set	1842 Feb 25 03:06	17°♌44'10		evening set	1843 Feb 08 19:38	1°♌00'04	
inferior conj	1842 Mar 03 13:29	12°♌36'25	3°40'28		1843 Feb 10 08:52	30°♌	
minimum elong	1842 Mar 03 14:33	12°♌33'43	3°40'24	inferior conj	1843 Feb 14 20:06	25°♌32'42	3°42'45
min. Earth dist.	1842 Mar 06 12:22	9°♌37'22	0.61992 AU	minimum elong	1843 Feb 14 19:20	25°♌34'51	3°42'43
morning rise	1842 Mar 09 23:34	6°♌39'09		min. Earth dist.	1843 Feb 17 04:16	22°♌53'32	0.63893 AU
direct	1842 Mar 16 21:16	4°♌10'06		morning rise	1843 Feb 20 17:25	19°♌26'03	
desc. node	1842 Mar 21 16:59	5°♌14'52		direct	1843 Feb 27 14:45	16°♌39'11	
morning max el	1842 Mar 30 23:28	12°♌04'39	27°49'21	desc. node	1843 Mar 08 14:02	20°♌21'36	
	1842 Apr 14 04:04	0°♌		morning max el	1843 Mar 13 07:58	24°♌33'06	27°35'14
	1842 May 01 10:13	0°♌			1843 Mar 18 06:43	0°♌	
morning set	1842 May 03 07:59	3°♌50'06			1843 Apr 07 13:27	0°♌	
max. Earth dist.	1842 May 09 03:04	16°♌01'35	1.32507 AU	morning set	1843 Apr 17 04:04	17°♌50'55	
asc. node	1842 May 10 06:42	18°♌31'14		max. Earth dist.	1843 Apr 22 06:11	28°♌13'27	1.33214 AU
					1843 Apr 23 02:27	0°♌	
superior conj	1842 May 10 19:26	19°♌40'30	0°05'37	superior conj	1843 Apr 25 02:03	4°♌12'43	0°-21'-39
minimum elong	1842 May 10 19:10	19°♌39'03	0°05'33	minimum elong	1843 Apr 25 03:08	4°♌18'26	0°21'27
behind sun begin	1842 May 10 14:20	19°♌12'42		asc. node	1843 Apr 27 03:44	8°♌39'13	
behind sun end	1842 May 11 00:01	20°♌05'26		evening rise	1843 May 02 06:16	19°♌34'59	
	1842 May 15 13:09	0°♌			1843 May 07 09:13	0°♌	
evening rise	1842 May 17 18:36	4°♌46'28		evening max el	1843 May 24 09:38	25°♌13'37	22°46'58
	1842 May 31 06:06	0°♌			1843 May 30 18:06	0°♌	
evening max el	1842 Jun 11 19:19	14°♌43'56	24°22'54	desc. node	1843 Jun 04 13:14	1°♌39'10	
desc. node	1842 Jun 17 16:12	19°♌19'17		retrograde	1843 Jun 06 15:54	1°♌49'21	
retrograde	1842 Jun 25 16:15	21°♌44'08		evening set	1843 Jun 09 23:42	1°♌25'03	
evening set	1842 Jun 30 11:26	20°♌52'41			1843 Jun 13 22:40	30°♌	
min. Earth dist.	1842 Jul 06 06:15	17°♌58'04	0.56731 AU	min. Earth dist.	1843 Jun 17 18:01	27°♌59'40	0.55402 AU
inferior conj	1842 Jul 08 22:49	16°♌15'56	-4°-45'-45	inferior conj	1843 Jun 19 04:05	27°♌10'47	-3°-49'-30
minimum elong	1842 Jul 08 18:50	16°♌22'17	4°45'21	minimum elong	1843 Jun 18 20:21	27°♌21'55	3°47'39
morning rise	1842 Jul 17 05:54	12°♌13'10		morning rise	1843 Jun 27 19:46	23°♌18'55	
direct	1842 Jul 19 21:35	11°♌54'09		direct	1843 Jun 30 17:05	22°♌59'31	
morning max el	1842 Jul 29 09:39	16°♌19'07	19°33'30	morning max el	1843 Jul 11 20:04	28°♌08'57	20°49'06
asc. node	1842 Aug 06 05:57	26°♌23'29			1843 Jul 13 16:30	0°♌	
	1842 Aug 08 09:39	0°♌		asc. node	1843 Jul 24 02:59	15°♌11'50	
morning set	1842 Aug 15 19:29	14°♌06'14		morning set	1843 Jul 31 02:23	28°♌47'26	
	1842 Aug 23 17:39	0°♌			1843 Jul 31 16:28	0°♌	
superior conj	1842 Aug 23 20:24	0°♌13'32	1°45'24	superior conj	1843 Aug 07 15:13	14°♌24'17	1°44'20
minimum elong	1842 Aug 23 21:03	0°♌16'42	1°45'22	minimum elong	1843 Aug 07 14:19	14°♌19'37	1°44'18
max. Earth dist.	1842 Aug 29 22:18	11°♌51'44	1.37648 AU	max. Earth dist.	1843 Aug 12 06:21	23°♌42'11	1.35811 AU
evening rise	1842 Sep 02 17:47	18°♌47'03			1843 Aug 15 12:51	0°♌	
	1842 Sep 09 06:59	0°♌		evening rise	1843 Aug 16 09:49	1°♌38'24	
desc. node	1842 Sep 13 15:33	7°♌00'41		desc. node	1843 Aug 31 12:34	27°♌15'48	
	1842 Sep 29 18:54	0°♌			1843 Sep 02 08:02	0°♌	
evening max el	1842 Oct 08 11:20	9°♌52'31	25°15'52	evening max el	1843 Sep 20 23:15	23°♌31'06	26°20'26
retrograde	1842 Oct 20 10:14	16°♌46'35			1843 Sep 30 02:50	0°♌	
evening set	1842 Oct 26 05:26	14°♌21'25		retrograde	1843 Oct 03 17:07	0°♌42'22	
min. Earth dist.	1842 Oct 30 17:13	9°♌21'26	0.67190 AU		1843 Oct 07 01:42	30°♌	
inferior conj	1842 Oct 31 18:54	7°♌57'58	0°-29'-31	evening set	1843 Oct 10 02:16	28°♌04'51	
minimum elong	1842 Oct 31 19:39	7°♌55'31	0°29'11				
asc. node	1842 Nov 02 05:10	6°♌08'29					

min. Earth dist.	1843 Oct 14 06:28	23°♄41'17	0.66367 AU	min. Earth dist.	1844 Sep 26 12:42	7°♄50'34	0.65188 AU
inferior conj	1843 Oct 15 19:34	21°♄47'49	-1°-27'-12	inferior conj	1844 Sep 28 14:02	5°♄31'23	-2°-25'-25
minimum elong	1843 Oct 15 21:52	21°♄40'45	1°26'15	minimum elong	1844 Sep 28 17:53	5°♄20'29	2°24'00
asc. node	1843 Oct 20 02:12	17°♄09'28			1844 Oct 04 17:50	30°♄	
morning rise	1843 Oct 21 18:38	15°♄57'57		morning rise	1844 Oct 04 22:04	29°♄54'49	
direct	1843 Oct 24 18:12	15°♄07'28		asc. node	1844 Oct 05 23:13	29°♄30'42	
morning max el	1843 Oct 31 12:13	18°♄51'21	18°42'36	direct	1844 Oct 07 14:08	29°♄16'28	
	1843 Nov 09 01:09	0°♄			1844 Oct 10 11:02	0°♄	
morning set	1843 Nov 21 10:43	19°♄23'05		morning max el	1844 Oct 14 02:36	2°♄47'12	18°09'08
desc. node	1843 Nov 27 11:52	28°♄56'58		morning set	1844 Nov 01 09:20	0°♄10'46	
	1843 Nov 28 03:51	0°♄			1844 Nov 01 06:44	0°♄	
max. Earth dist.	1843 Dec 07 06:44	14°♄20'06	1.45095 AU	desc. node	1844 Nov 13 08:54	19°♄40'25	
superior conj	1843 Dec 07 16:32	14°♄58'35	-1°-4'-41	superior conj	1844 Nov 15 20:43	23°♄38'35	0°-16'-39
minimum elong	1843 Dec 07 08:43	14°♄27'54	1°03'45	minimum elong	1844 Nov 15 18:36	23°♄30'10	0°16'23
	1843 Dec 17 05:05	0°♄		max. Earth dist.	1844 Nov 19 01:38	28°♄42'36	1.44983 AU
evening rise	1843 Dec 23 09:48	9°♄53'06			1844 Nov 19 21:18	0°♄	
	1844 Jan 05 01:53	0°♄		evening rise	1844 Dec 02 08:04	19°♄24'59	
evening max el	1844 Jan 13 20:22	11°♄41'12	18°51'59		1844 Dec 09 04:14	0°♄	
asc. node	1844 Jan 16 01:28	13°♄40'26		greatest brilliancy	1844 Dec 19 06:56	15°♄11'52	-0.6m
retrograde	1844 Jan 20 15:06	15°♄30'18		evening max el	1844 Dec 27 03:22	25°♄10'30	19°39'41
evening set	1844 Jan 23 19:23	14°♄32'13		asc. node	1845 Jan 01 22:30	29°♄13'10	
inferior conj	1844 Jan 29 12:53	8°♄47'24	3°28'46	retrograde	1845 Jan 03 12:08	29°♄26'44	
minimum elong	1844 Jan 29 10:55	8°♄53'32	3°28'29	evening set	1845 Jan 06 23:48	28°♄15'36	
min. Earth dist.	1844 Jan 31 05:39	6°♄41'19	0.65450 AU	inferior conj	1845 Jan 12 12:48	22°♄51'55	3°02'41
morning rise	1844 Feb 04 01:22	2°♄35'30		minimum elong	1845 Jan 12 10:13	22°♄24'22	3°02'05
	1844 Feb 08 15:21	30°♄		min. Earth dist.	1845 Jan 13 15:06	20°♄49'19	0.66612 AU
direct	1844 Feb 10 15:13	29°♄45'05		morning rise	1845 Jan 17 19:56	16°♄01'22	
	1844 Feb 12 17:03	0°♄		direct	1845 Jan 23 21:41	13°♄20'01	
desc. node	1844 Feb 23 11:04	7°♄10'38		morning max el	1845 Feb 05 02:49	20°♄36'08	25°38'19
morning max el	1844 Feb 23 17:46	7°♄27'23	26°48'47	desc. node	1845 Feb 09 08:06	25°♄13'14	
	1844 Mar 12 05:39	0°♄			1845 Feb 13 05:28	0°♄	
	1844 Mar 29 21:36	0°♄			1845 Mar 05 09:40	0°♄	
morning set	1844 Mar 30 13:32	1°♄15'43		morning set	1845 Mar 13 08:01	13°♄51'50	
max. Earth dist.	1844 Apr 03 22:46	9°♄50'36	1.34371 AU	max. Earth dist.	1845 Mar 17 03:30	20°♄57'57	1.35992 AU
					1845 Mar 21 18:58	0°♄	
superior conj	1844 Apr 08 03:03	18°♄22'58	0°-49'-33	superior conj	1845 Mar 22 19:52	2°♄04'15	-1°-16'-32
minimum elong	1844 Apr 08 05:33	18°♄35'57	0°49'05	minimum elong	1845 Mar 22 23:36	2°♄22'56	1°15'57
asc. node	1844 Apr 13 00:45	28°♄40'44		evening rise	1845 Mar 30 21:46	18°♄31'29	
	1844 Apr 13 15:49	0°♄		asc. node	1845 Mar 30 21:47	18°♄31'37	
evening rise	1844 Apr 15 15:59	4°♄11'58			1845 Apr 05 18:11	0°♄	
	1844 Apr 30 03:50	0°♄		evening max el	1845 Apr 17 15:07	17°♄15'44	19°59'55
evening max el	1844 May 05 06:44	5°♄57'13	21°16'06	retrograde	1845 Apr 27 21:03	22°♄12'40	
retrograde	1844 May 17 06:05	11°♄47'56		evening set	1845 Apr 29 21:49	22°♄01'52	
evening set	1844 May 19 13:44	11°♄35'33		desc. node	1845 May 08 07:16	18°♄21'26	
desc. node	1844 May 21 10:16	11°♄08'52		inferior conj	1845 May 08 20:02	18°♄02'11	0°-9'-16
inferior conj	1844 May 28 22:30	7°♄36'35	-2°-8'-57	minimum elong	1845 May 08 19:37	18°♄02'50	0°09'07
minimum elong	1844 May 28 16:34	7°♄44'55	2°06'56	transit begin	1845 May 08 16:20	18°♄07'46	
min. Earth dist.	1844 May 29 06:21	7°♄25'31	0.54909 AU	transit end	1845 May 08 22:53	17°♄57'53	
morning rise	1844 Jun 06 19:28	3°♄37'29		min. Earth dist.	1845 May 10 19:49	16°♄50'10	0.55387 AU
direct	1844 Jun 10 03:06	3°♄13'37		morning rise	1845 May 17 14:35	13°♄37'51	
morning max el	1844 Jun 22 19:33	9°♄15'17	22°22'02	direct	1845 May 21 17:13	13°♄00'48	
	1844 Jul 07 14:57	0°♄		morning max el	1845 Jun 04 11:28	19°♄49'19	24°03'53
asc. node	1844 Jul 10 00:00	4°♄29'26			1845 Jun 13 01:34	0°♄	
morning set	1844 Jul 14 12:33	13°♄38'40		asc. node	1845 Jun 26 21:03	24°♄08'36	
				morning set	1845 Jun 29 00:16	28°♄34'44	
superior conj	1844 Jul 21 17:51	28°♄58'11	1°36'37		1845 Jun 29 16:24	0°♄	
minimum elong	1844 Jul 21 15:55	28°♄48'01	1°36'27	superior conj	1845 Jul 06 01:35	13°♄46'49	1°23'30
	1844 Jul 22 05:33	0°♄		minimum elong	1845 Jul 05 23:12	13°♄33'56	1°23'12
max. Earth dist.	1844 Jul 24 22:52	5°♄40'44	1.34320 AU	max. Earth dist.	1845 Jul 08 00:45	18°♄00'40	1.33225 AU
evening rise	1844 Jul 29 17:14	15°♄14'43		evening rise	1845 Jul 13 11:56	29°♄24'04	
	1844 Aug 06 17:14	0°♄			1845 Jul 13 19:04	0°♄	
desc. node	1844 Aug 17 09:35	17°♄08'04			1845 Jul 30 19:30	0°♄	
	1844 Aug 26 23:53	0°♄		desc. node	1845 Aug 04 06:36	6°♄27'47	
evening max el	1844 Sep 02 11:27	7°♄02'18	27°06'04	evening max el	1845 Aug 15 22:37	20°♄14'17	27°25'39
retrograde	1844 Sep 15 18:36	14°♄20'23					
evening set	1844 Sep 22 15:24	11°♄37'28					

retrograde	1845 Aug 29 13:52	27°♄31'55		desc. node	1846 Jul 22 03:35	25°♁01'39	
evening set	1845 Sep 05 17:52	24°♄53'33			1846 Jul 26 09:47	0°♄	
min. Earth dist.	1845 Sep 09 09:47	21°♄40'40	0.63663 AU	evening max el	1846 Jul 29 06:11	2°♄53'35	27°13'54
inferior conj	1845 Sep 11 23:44	19°♄02'43	-3°-21'-25	retrograde	1846 Aug 12 02:20	10°♄08'32	
minimum elong	1845 Sep 12 04:46	18°♄49'50	3°19'54	evening set	1846 Aug 19 05:55	7°♄47'08	
morning rise	1845 Sep 18 17:55	13°♄42'50		min. Earth dist.	1846 Aug 22 20:20	5°♄00'24	0.61822 AU
direct	1845 Sep 21 05:08	13°♄13'01		inferior conj	1846 Aug 25 21:40	2°♄14'45	-4°-10'-47
asc. node	1845 Sep 22 20:16	13°♄26'15		minimum elong	1846 Aug 26 02:52	2°♄02'57	4°09'39
morning max el	1845 Sep 27 18:44	16°♄38'40	17°53'02		1846 Aug 28 11:48	30°♁	
	1845 Oct 07 06:46	0°♁		morning rise	1846 Sep 02 02:38	27°♁15'11	
morning set	1845 Oct 14 10:08	12°♁14'08		direct	1846 Sep 04 11:49	26°♁50'55	
	1845 Oct 24 20:31	0°♄		asc. node	1846 Sep 09 17:20	28°♁51'39	
					1846 Sep 11 01:32	0°♄	
superior conj	1845 Oct 26 20:23	3°♄17'52	0°29'30	morning max el	1846 Sep 11 09:44	0°♄19'39	17°55'15
minimum elong	1845 Oct 26 23:26	3°♄30'25	0°29'04	morning set	1846 Sep 27 06:55	25°♄14'59	
desc. node	1845 Oct 31 05:55	10°♄27'05			1846 Sep 29 21:44	0°♁	
max. Earth dist.	1845 Nov 01 19:17	12°♄56'57	1.44158 AU				
evening rise	1845 Nov 11 17:10	28°♄28'56		superior conj	1846 Oct 07 23:17	14°♁18'00	1°05'37
	1845 Nov 12 16:51	0°♄		minimum elong	1846 Oct 08 03:53	14°♁37'53	1°05'03
	1845 Dec 03 01:51	0°♁		max. Earth dist.	1846 Oct 15 08:57	26°♁45'56	1.42721 AU
greatest brilliancy	1845 Dec 04 11:00	1°♁50'16	-0.5m		1846 Oct 17 08:34	0°♄	
evening max el	1845 Dec 10 05:10	8°♁40'40	20°41'41	desc. node	1846 Oct 18 02:56	1°♄14'14	
retrograde	1845 Dec 18 09:56	13°♁31'19		evening rise	1846 Oct 22 05:31	7°♄46'27	
asc. node	1845 Dec 19 19:32	13°♁20'21			1846 Nov 05 22:55	0°♄	
evening set	1845 Dec 22 06:49	12°♁05'24		greatest brilliancy	1846 Nov 18 06:59	16°♄47'19	-0.4m
inferior conj	1845 Dec 27 17:14	5°♁53'41	2°27'18	evening max el	1846 Nov 23 01:18	22°♄11'43	21°54'35
minimum elong	1845 Dec 27 14:39	6°♁02'32	2°26'29	retrograde	1846 Dec 02 06:42	27°♄41'06	
min. Earth dist.	1845 Dec 28 06:35	5°♁08'04	0.67375 AU	evening set	1846 Dec 06 14:39	25°♄58'56	
	1846 Jan 01 12:43	30°♄		asc. node	1846 Dec 06 16:35	25°♄55'03	
morning rise	1846 Jan 01 22:02	29°♄38'32		inferior conj	1846 Dec 12 00:08	19°♄38'36	1°44'34
direct	1846 Jan 07 09:11	27°♄14'53		minimum elong	1846 Dec 11 22:00	19°♄45'59	1°43'47
	1846 Jan 14 02:32	0°♁		min. Earth dist.	1846 Dec 12 01:55	19°♄32'26	0.67761 AU
morning max el	1846 Jan 18 11:07	3°♁51'20	24°13'50	morning rise	1846 Dec 17 05:10	13°♄24'37	
desc. node	1846 Jan 27 05:08	14°♁07'35		direct	1846 Dec 22 01:02	11°♄23'06	
	1846 Feb 07 12:05	0°♁		morning max el	1846 Dec 31 21:10	17°♄12'33	22°45'22
morning set	1846 Feb 23 05:47	25°♁23'05		greatest brilliancy	1847 Jan 05 12:09	22°♄22'11	-0.3m
	1846 Feb 25 20:50	0°♄			1847 Jan 11 10:29	0°♁	
max. Earth dist.	1846 Feb 27 00:01	2°♄01'35	1.37985 AU	desc. node	1847 Jan 14 02:12	3°♁39'05	
					1847 Jan 31 14:23	0°♁	
superior conj	1846 Mar 06 01:05	15°♄07'00	-1°-40'-22	morning set	1847 Feb 04 00:48	5°♁34'59	
minimum elong	1846 Mar 06 05:20	15°♄27'25	1°39'54	max. Earth dist.	1847 Feb 08 19:53	13°♁37'48	1.40135 AU
	1846 Mar 13 15:30	0°♄					
evening rise	1846 Mar 14 21:08	2°♄26'25		superior conj	1847 Feb 16 14:18	27°♁20'31	-1°-57'-52
asc. node	1846 Mar 17 18:50	8°♄06'44		minimum elong	1847 Feb 16 17:36	27°♁35'29	1°57'42
evening max el	1846 Mar 31 10:42	29°♄13'06	19°02'44		1847 Feb 18 01:10	0°♄	
	1846 Apr 01 07:03	0°♄		evening rise	1847 Feb 26 11:09	15°♄49'34	
retrograde	1846 Apr 09 01:49	3°♄24'07		asc. node	1847 Mar 04 15:53	27°♄20'34	
evening set	1846 Apr 11 05:32	3°♄09'33			1847 Mar 06 04:23	0°♄	
	1846 Apr 17 19:32	30°♄		evening max el	1847 Mar 14 15:05	11°♄44'34	18°25'43
inferior conj	1846 Apr 19 09:25	28°♄55'22	1°36'05	retrograde	1847 Mar 22 01:41	15°♄24'58	
minimum elong	1846 Apr 19 12:51	28°♄49'23	1°34'59	evening set	1847 Mar 24 10:48	15°♄03'31	
min. Earth dist.	1846 Apr 22 11:12	26°♄48'04	0.56724 AU	inferior conj	1847 Mar 31 20:04	10°♄29'13	2°49'10
desc. node	1846 Apr 25 04:17	25°♄08'07		minimum elong	1847 Mar 31 23:55	10°♄21'21	2°48'17
morning rise	1846 Apr 27 16:00	23°♄56'59		min. Earth dist.	1847 Apr 04 06:37	7°♄42'32	0.58637 AU
direct	1846 May 02 19:26	22°♄54'44		morning rise	1847 Apr 08 08:59	5°♄00'18	
	1846 May 16 19:06	0°♄		desc. node	1847 Apr 12 01:22	3°♄38'18	
morning max el	1846 May 17 01:57	0°♄16'22	25°40'53	direct	1847 Apr 14 11:29	3°♄22'55	
	1846 Jun 06 17:50	0°♄		morning max el	1847 Apr 28 20:36	11°♄04'57	26°57'10
morning set	1846 Jun 13 11:56	13°♄30'23			1847 May 13 12:28	0°♄	
asc. node	1846 Jun 13 18:07	14°♄03'02		morning set	1847 May 28 21:49	28°♄19'22	
					1847 May 29 16:57	0°♄	
superior conj	1846 Jun 20 12:17	28°♄43'06	1°05'58	asc. node	1847 May 31 15:09	4°♄06'51	
minimum elong	1846 Jun 20 09:57	28°♄30'21	1°05'34				
	1846 Jun 21 02:19	0°♄		superior conj	1847 Jun 05 00:03	13°♄40'11	0°44'46
max. Earth dist.	1846 Jun 21 09:32	0°♄39'31	1.32521 AU	minimum elong	1847 Jun 04 22:14	13°♄30'10	0°44'23
evening rise	1846 Jun 27 14:30	13°♄56'10		max. Earth dist.	1847 Jun 04 21:37	13°♄26'44	1.32204 AU
	1846 Jul 05 20:46	0°♄		evening rise	1847 Jun 11 22:16	28°♄41'41	

	1847 Jun 12 13:13	0°☿		evening rise	1848 May 26 09:04	13°♁33'36	
	1847 Jun 29 06:11	0°♁			1848 Jun 03 15:57	0°☿	
desc. node	1847 Jul 09 00:38	12°♁29'41		evening max el	1848 Jun 22 01:40	25°☿56'02	25°14'49
evening max el	1847 Jul 11 07:29	14°♁47'58	26°28'58	desc. node	1848 Jun 24 21:39	28°☿25'00	
retrograde	1847 Jul 25 07:00	22°♁00'32			1848 Jun 27 01:58	0°♁	
evening set	1847 Jul 31 22:47	20°♁09'13		retrograde	1848 Jul 06 01:53	3°♁03'36	
min. Earth dist.	1847 Aug 04 20:41	17°♁33'46	0.59777 AU	evening set	1848 Jul 11 16:19	1°♁50'58	
inferior conj	1847 Aug 08 04:12	14°♁57'05	-4°-46'-20		1848 Jul 15 04:51	30°☿	
minimum elong	1847 Aug 08 07:38	14°♁50'16	4°45'58	min. Earth dist.	1848 Jul 16 13:30	29°☿07'49	0.57755 AU
morning rise	1847 Aug 15 19:53	10°♁20'27		inferior conj	1848 Jul 19 15:56	27°☿00'28	-4°-56'-45
direct	1847 Aug 18 05:41	9°♁59'32		minimum elong	1848 Jul 19 15:06	27°☿01'54	4°56'45
morning max el	1847 Aug 25 20:25	13°♁40'55	18°16'58	morning rise	1848 Jul 27 17:37	22°☿46'26	
asc. node	1847 Aug 27 14:24	15°♁32'00		direct	1848 Jul 30 06:26	22°☿27'12	
	1847 Sep 05 23:08	0°♁		morning max el	1848 Aug 07 23:33	26°☿32'54	18°59'24
morning set	1847 Sep 10 18:00	8°♁56'31			1848 Aug 11 02:54	0°♁	
				asc. node	1848 Aug 13 11:26	3°♁12'07	
superior conj	1847 Sep 20 02:53	26°♁30'49	1°29'35	morning set	1848 Aug 24 15:07	23°♁07'15	
minimum elong	1847 Sep 20 06:29	26°♁47'15	1°29'15		1848 Aug 28 02:38	0°♁	
	1847 Sep 22 01:09	0°♁					
max. Earth dist.	1847 Sep 27 16:49	9°♁53'33	1.40854 AU	superior conj	1848 Sep 02 01:38	9°♁40'16	1°42'22
evening rise	1847 Oct 02 11:53	17°♁54'30		minimum elong	1848 Sep 02 03:21	9°♁48'32	1°42'17
desc. node	1847 Oct 04 23:58	21°♁57'58		max. Earth dist.	1848 Sep 08 20:29	22°♁16'58	1.38806 AU
	1847 Oct 10 02:36	0°♁		evening rise	1848 Sep 12 18:19	29°♁09'43	
	1847 Oct 31 12:54	0°♁			1848 Sep 13 06:01	0°♁	
evening max el	1847 Nov 05 16:38	5°♁44'36	23°13'45	desc. node	1848 Sep 20 20:59	12°♁34'23	
retrograde	1847 Nov 16 00:55	11°♁52'27			1848 Oct 02 12:34	0°♁	
evening set	1847 Nov 20 21:36	9°♁53'11		evening max el	1848 Oct 18 05:15	19°♁21'19	24°33'05
asc. node	1847 Nov 23 13:38	7°♁06'45		retrograde	1848 Oct 29 15:18	26°♁01'28	
min. Earth dist.	1847 Nov 25 22:41	3°♁58'52	0.67798 AU	evening set	1848 Nov 04 02:01	23°♁45'28	
inferior conj	1847 Nov 26 07:36	3°♁28'10	0°55'58	min. Earth dist.	1848 Nov 08 18:28	18°♁24'53	0.67505 AU
minimum elong	1847 Nov 26 06:20	3°♁32'32	0°55'26	inferior conj	1848 Nov 09 13:52	17°♁20'05	0°02'44
	1847 Nov 28 22:52	30°♁		minimum elong	1848 Nov 09 13:48	17°♁20'19	0°02'43
morning rise	1847 Dec 01 15:08	27°♁17'28		transit begin	1848 Nov 09 11:05	17°♁29'21	
direct	1847 Dec 05 20:24	25°♁38'48		transit end	1848 Nov 09 16:30	17°♁11'17	
	1847 Dec 13 19:08	0°♁		asc. node	1848 Nov 09 10:41	17°♁30'44	
morning max el	1847 Dec 14 12:18	0°♁42'10	21°21'30	morning rise	1848 Nov 15 01:57	11°♁15'07	
greatest brilliancy	1847 Dec 19 15:57	6°♁35'38	-0.4m	direct	1848 Nov 18 18:08	9°♁57'36	
desc. node	1847 Dec 31 23:14	23°♁37'08		morning max el	1848 Nov 26 10:46	14°♁21'58	20°08'18
	1848 Jan 05 06:13	0°♁		greatest brilliancy	1848 Dec 03 08:24	22°♁42'08	-0.6m
morning set	1848 Jan 14 15:05	14°♁26'13			1848 Dec 08 12:48	0°♁	
max. Earth dist.	1848 Jan 21 20:58	26°♁06'01	1.42159 AU	desc. node	1848 Dec 17 20:16	13°♁54'03	
	1848 Jan 24 05:29	0°♁		morning set	1848 Dec 23 11:44	22°♁33'28	
					1848 Dec 28 06:31	0°♁	
superior conj	1848 Jan 29 06:19	8°♁32'17	-2°-4'-45	max. Earth dist.	1849 Jan 03 05:35	9°♁26'09	1.43795 AU
minimum elong	1848 Jan 29 06:15	8°♁31'57	2°04'47				
evening rise	1848 Feb 09 12:04	28°♁32'12		superior conj	1849 Jan 08 20:34	18°♁32'32	-1°-56'-3
	1848 Feb 10 07:24	0°♁		minimum elong	1849 Jan 08 15:07	18°♁10'15	1°55'46
asc. node	1848 Feb 19 12:56	16°♁05'56			1849 Jan 15 17:36	0°♁	
evening max el	1848 Feb 26 01:06	24°♁41'40	18°08'43	evening rise	1849 Jan 21 19:30	10°♁24'50	
retrograde	1848 Mar 03 18:44	28°♁07'17			1849 Feb 02 11:23	0°♁	
evening set	1848 Mar 06 09:07	27°♁37'01		asc. node	1849 Feb 05 09:59	4°♁13'09	
inferior conj	1848 Mar 13 02:50	22°♁41'34	3°29'31	evening max el	1849 Feb 08 13:33	7°♁54'55	18°11'02
minimum elong	1848 Mar 13 05:04	22°♁36'17	3°29'16	retrograde	1849 Feb 15 00:39	11°♁20'00	
min. Earth dist.	1848 Mar 16 08:33	19°♁39'38	0.60778 AU	evening set	1849 Feb 17 20:04	10°♁39'38	
morning rise	1848 Mar 19 21:53	16°♁52'01		inferior conj	1849 Feb 24 01:52	5°♁23'38	3°43'43
direct	1848 Mar 26 15:32	14°♁39'02		minimum elong	1849 Feb 24 02:06	5°♁23'01	3°43'43
desc. node	1848 Mar 28 22:25	14°♁53'31		min. Earth dist.	1849 Feb 26 18:55	2°♁30'40	0.62840 AU
morning max el	1848 Apr 09 21:28	22°♁31'58	27°40'57		1849 Mar 01 10:56	30°♁	
	1848 Apr 16 12:02	0°♁		morning rise	1849 Mar 02 06:02	29°♁21'52	
	1848 May 05 14:23	0°♁		direct	1849 Mar 09 04:48	26°♁43'05	
morning set	1848 May 12 04:07	12°♁55'37		desc. node	1849 Mar 15 19:27	28°♁44'58	
asc. node	1848 May 17 12:13	24°♁15'46			1849 Mar 17 18:01	0°♁	
max. Earth dist.	1848 May 18 09:09	26°♁09'50	1.32278 AU	morning max el	1849 Mar 23 03:34	4°♁38'41	27°47'35
					1849 Apr 11 04:33	0°♁	
superior conj	1848 May 19 11:14	28°♁32'29	0°20'36	morning set	1849 Apr 26 04:37	27°♁11'09	
minimum elong	1848 May 19 10:19	28°♁27'25	0°20'23		1849 Apr 27 13:52	0°♁	
	1848 May 20 03:12	0°♁		max. Earth dist.	1849 May 01 16:17	8°♁35'21	1.32752 AU

superior conj	1849 May 03 20:02	13°♄13'26	0°-5'-49	superior conj	1850 Apr 18 00:32	27°♃36'50	0°-33'-30
minimum elong	1849 May 03 20:19	13°♄14'56	0°05'46	minimum elong	1850 Apr 18 02:12	27°♃45'43	0°33'10
behind sun begin	1849 May 03 15:25	12°♄48'29			1850 Apr 19 03:32	0°♄	
behind sun end	1849 May 04 01:12	13°♄41'24		asc. node	1850 Apr 21 06:17	4°♄30'30	
asc. node	1849 May 04 09:15	14°♄24'58		evening rise	1850 Apr 25 07:57	13°♄08'52	
evening rise	1849 May 10 20:54	28°♄24'44			1850 May 03 23:07	0°♂	
	1849 May 11 14:59	0°♂		evening max el	1850 May 16 08:05	17°♂03'27	22°06'55
	1849 May 28 21:37	0°♂		retrograde	1850 May 29 02:40	23°♂21'28	
evening max el	1849 Jun 03 15:40	6°♂31'47	23°42'26	desc. node	1850 May 29 15:41	23°♂20'48	
desc. node	1849 Jun 11 18:40	12°♂13'11		evening set	1850 May 31 22:20	23°♂03'50	
retrograde	1849 Jun 17 08:25	13°♂23'39		min. Earth dist.	1850 Jun 09 13:42	19°♂21'41	0.55080 AU
evening set	1849 Jun 21 11:54	12°♂45'55		inferior conj	1850 Jun 10 06:35	18°♂57'58	-3°-11'-15
min. Earth dist.	1849 Jun 28 02:12	9°♂39'33	0.56077 AU	minimum elong	1850 Jun 09 22:52	19°♂08'49	3°09'00
inferior conj	1849 Jun 30 07:30	8°♂19'10	-4°-27'-56	morning rise	1850 Jun 19 01:10	15°♂05'38	
minimum elong	1849 Jun 30 01:26	8°♂28'22	4°26'58	direct	1850 Jun 22 02:22	14°♂44'52	
morning rise	1849 Jul 08 18:20	4°♂22'21		morning max el	1850 Jul 03 21:42	20°♂15'53	21°26'59
direct	1849 Jul 11 12:09	4°♂03'22			1850 Jul 11 21:48	0°♂	
morning max el	1849 Jul 21 16:22	8°♂46'23	20°03'12	asc. node	1850 Jul 18 05:30	10°♂40'14	
asc. node	1849 Jul 31 08:28	21°♂38'37		morning set	1850 Jul 24 03:39	22°♂24'56	
	1849 Aug 04 22:40	0°♁			1850 Jul 27 18:34	0°♁	
morning set	1849 Aug 08 19:09	7°♁39'05		superior conj	1850 Jul 31 12:45	7°♁52'49	1°41'47
superior conj	1849 Aug 16 14:18	23°♁31'44	1°45'50	minimum elong	1850 Jul 31 11:21	7°♁45'29	1°41'43
minimum elong	1849 Aug 16 14:14	23°♁31'22	1°45'50	max. Earth dist.	1850 Aug 04 13:09	16°♁05'46	1.35127 AU
	1849 Aug 19 20:52	0°♃		evening rise	1850 Aug 08 22:22	24°♁04'22	
max. Earth dist.	1849 Aug 22 01:29	4°♃13'05	1.36831 AU		1850 Aug 11 18:46	0°♃	
evening rise	1849 Aug 25 23:18	11°♃28'59		desc. node	1850 Aug 25 15:00	23°♃05'12	
	1849 Sep 05 20:30	0°♅			1850 Aug 30 09:17	0°♅	
desc. node	1849 Sep 07 17:59	2°♅58'56		evening max el	1850 Sep 13 05:30	16°♅38'16	26°42'42
	1849 Sep 27 19:07	0°♆		retrograde	1850 Sep 26 05:23	23°♅52'45	
evening max el	1849 Sep 30 17:18	3°♆01'31	25°45'17	evening set	1850 Oct 02 20:00	21°♅12'00	
retrograde	1849 Oct 13 01:00	10°♆03'51		min. Earth dist.	1850 Oct 06 21:14	17°♅04'14	0.65909 AU
evening set	1849 Oct 19 02:11	7°♆33'10		inferior conj	1850 Oct 08 15:24	14°♅59'24	-1°-51'-56
min. Earth dist.	1849 Oct 23 10:47	2°♆48'18	0.66880 AU	minimum elong	1850 Oct 08 18:23	14°♅50'33	1°50'46
inferior conj	1849 Oct 24 17:07	1°♆11'58	0°-53'-43	asc. node	1850 Oct 14 04:43	9°♅33'59	
minimum elong	1849 Oct 24 18:31	1°♆07'32	0°53'09	morning rise	1850 Oct 14 18:06	9°♅14'50	
	1849 Oct 25 15:59	30°♅		direct	1850 Oct 17 14:17	8°♅29'49	
asc. node	1849 Oct 27 07:42	28°♅02'42		morning max el	1850 Oct 24 04:57	12°♅06'41	18°26'23
morning rise	1849 Oct 30 11:40	25°♅15'37			1850 Nov 05 22:55	0°♆	
direct	1849 Nov 02 16:45	24°♅16'10		morning set	1850 Nov 12 21:19	11°♆08'45	
morning max el	1849 Nov 09 16:53	28°♅11'43	19°09'24	desc. node	1850 Nov 21 14:18	25°♆04'22	
	1849 Nov 11 09:00	0°♇			1850 Nov 24 17:00	0°♇	
	1849 Dec 01 21:22	0°♇		superior conj	1850 Nov 28 11:15	5°♇55'26	0°-44'-51
morning set	1849 Dec 02 15:39	1°♇11'17		minimum elong	1850 Nov 28 05:29	5°♇32'46	0°44'07
desc. node	1849 Dec 04 17:17	4°♇24'46		max. Earth dist.	1850 Nov 29 16:01	7°♇48'28	1.45143 AU
max. Earth dist.	1849 Dec 16 21:04	23°♇27'16	1.44830 AU		1850 Dec 13 19:07	0°♈	
superior conj	1849 Dec 19 10:02	27°♇28'04	-1°-28'-24	evening rise	1850 Dec 14 15:59	1°♈22'13	
minimum elong	1849 Dec 19 01:13	26°♇53'13	1°27'32	greatest brilliancy	1850 Dec 27 06:23	21°♈05'03	-0.7m
	1849 Dec 21 00:20	0°♉			1851 Jan 02 11:04	0°♉	
evening rise	1850 Jan 03 05:28	21°♈21'59		evening max el	1851 Jan 06 11:03	4°♉45'30	19°10'15
	1850 Jan 08 11:21	0°♊		asc. node	1851 Jan 10 04:01	7°♉46'51	
evening max el	1850 Jan 23 01:40	21°♉17'59	18°31'53	retrograde	1851 Jan 13 10:49	8°♉45'00	
asc. node	1850 Jan 23 07:00	21°♉31'22		evening set	1851 Jan 16 18:07	7°♉41'23	
retrograde	1850 Jan 29 15:12	24°♉54'55		inferior conj	1851 Jan 22 09:25	1°♉49'38	3°18'59
evening set	1850 Feb 01 16:03	24°♉03'28		minimum elong	1851 Jan 22 07:07	1°♉56'59	3°18'33
inferior conj	1850 Feb 07 13:14	18°♉28'26	3°38'30	min. Earth dist.	1851 Jan 23 19:44	0°♉00'17	0.65999 AU
minimum elong	1850 Feb 07 11:52	18°♉32'26	3°38'22		1851 Jan 23 19:49	30°♈	
min. Earth dist.	1850 Feb 09 14:47	16°♉02'20	0.64615 AU	morning rise	1851 Jan 27 19:15	25°♈36'25	
morning rise	1850 Feb 13 06:23	12°♉19'26		direct	1851 Feb 03 04:18	22°♈48'55	
direct	1850 Feb 20 01:23	9°♉29'24			1851 Feb 15 14:02	0°♉	
desc. node	1850 Mar 02 16:30	14°♉39'17		morning max el	1851 Feb 15 22:33	0°♉21'18	26°21'11
morning max el	1850 Mar 05 12:45	17°♉18'57	27°18'51	desc. node	1851 Feb 17 13:31	2°♉02'47	
	1850 Mar 16 03:05	0°♋			1851 Mar 10 02:09	0°♋	
	1850 Apr 04 00:45	0°♌		morning set	1851 Mar 24 00:20	24°♋03'27	
morning set	1850 Apr 09 20:35	10°♌57'20			1851 Mar 27 03:06	0°♌	
max. Earth dist.	1850 Apr 14 15:15	20°♌32'28	1.33658 AU	max. Earth dist.	1851 Mar 28 03:08	1°♌57'16	1.35014 AU

superior conj	1851 Apr 01 22:27	11° Υ 36'00	-1°-1'-14			1852 Mar 01 21:26	0° X		
minimum elong	1851 Apr 02 01:31	11° Υ 51'43	1°00'41	morning set		1852 Mar 05 10:52	6° X 14'40		
asc. node	1851 Apr 08 03:20	24° Υ 28'21		max. Earth dist.		1852 Mar 09 03:51	12° X 59'54	1.36802 AU	
evening rise	1851 Apr 09 16:20	27° Υ 39'52							
	1851 Apr 10 19:40	0° Y		superior conj		1852 Mar 15 10:49	25° X 02'12	-1°-27'-11	
evening max el	1851 Apr 28 09:38	28° Y 00'16	20°41'26	minimum elong		1852 Mar 15 14:54	25° X 22'18	1°26'38	
	1851 Apr 30 16:26	0° Z				1852 Mar 17 22:49	0° Υ		
retrograde	1851 May 09 15:52	3° Z 28'36		evening rise		1852 Mar 23 19:46	11° Υ 50'10		
evening set	1851 May 11 18:49	3° Z 17'42		asc. node		1852 Mar 25 00:23	14° Υ 13'21		
desc. node	1851 May 16 12:43	1° Z 44'15				1852 Apr 02 14:17	0° A		
	1851 May 19 20:32	30° A		evening max el		1852 Apr 09 22:57	9° A 35'40	19°33'07	
inferior conj	1851 May 21 00:32	29° A 20'04	-1°-18'-21	retrograde		1852 Apr 19 11:48	14° A 11'54		
minimum elong	1851 May 20 20:50	29° A 25'23	1°17'01	evening set		1852 Apr 21 12:53	14° A 00'07		
min. Earth dist.	1851 May 22 02:15	28° A 43'12	0.54994 AU	inferior conj		1852 Apr 30 03:45	9° A 55'30	0°38'42	
morning rise	1851 May 29 21:43	25° A 12'28		minimum elong		1852 Apr 30 05:23	9° A 52'54	0°38'07	
direct	1851 Jun 02 12:11	24° A 44'31		desc. node		1852 May 02 09:46	8° A 29'22		
	1851 Jun 14 11:39	0° B		min. Earth dist.		1852 May 02 16:42	8° A 18'32	0.55859 AU	
morning max el	1851 Jun 15 17:27	1° B 06'52	23°05'08	morning rise		1852 May 08 18:11	5° A 16'31		
	1851 Jul 05 00:53	0° C		direct		1852 May 13 06:47	4° A 30'25		
asc. node	1851 Jul 05 02:33	0° C 08'18		morning max el		1852 May 27 08:15	11° A 35'33	24°46'41	
morning set	1851 Jul 08 14:44	7° C 19'29				1852 Jun 10 09:04	0° B		
				asc. node		1852 Jun 20 23:38	19° B 54'42		
superior conj	1851 Jul 15 17:53	22° C 34'25	1°31'39	morning set		1852 Jun 22 02:37	22° B 16'06		
minimum elong	1851 Jul 15 15:42	22° C 22'45	1°31'26			1852 Jun 25 17:04	0° D		
max. Earth dist.	1851 Jul 18 09:54	28° C 13'33	1.33799 AU						
	1851 Jul 19 06:16	0° E		superior conj		1852 Jun 29 03:10	7° C 27'22	1°16'34	
evening rise	1851 Jul 23 11:04	8° E 32'11		minimum elong		1852 Jun 29 00:45	7° C 14'13	1°16'12	
	1851 Aug 04 06:11	0° F		max. Earth dist.		1852 Jun 30 14:53	10° C 41'17	1.32873 AU	
desc. node	1851 Aug 12 12:01	12° F 45'16		evening rise		1852 Jul 06 09:29	22° C 52'18		
	1851 Aug 26 16:24	0° G				1852 Jul 09 23:23	0° F		
evening max el	1851 Aug 26 17:20	0° G 02'13	27°17'53			1852 Jul 28 01:19	0° F		
retrograde	1851 Sep 09 04:14	7° G 20'51		desc. node		1852 Jul 29 09:03	1° F 47'28		
evening set	1851 Sep 16 05:00	4° G 38'06		evening max el		1852 Aug 08 03:04	13° F 00'59	27°24'38	
min. Earth dist.	1851 Sep 19 23:36	1° G 06'38	0.64583 AU	retrograde		1852 Aug 21 21:00	20° F 18'29		
	1851 Sep 21 00:25	30° F		evening set		1852 Aug 29 01:52	17° F 45'28		
inferior conj	1851 Sep 22 06:27	28° F 38'11	-2°-49'-40	min. Earth dist.		1852 Sep 01 16:18	14° F 45'08	0.62909 AU	
minimum elong	1851 Sep 22 10:53	28° F 26'09	2°48'08	inferior conj		1852 Sep 04 11:31	12° F 01'53	-3°-43'-35	
morning rise	1851 Sep 28 18:43	23° F 08'37		minimum elong		1852 Sep 04 16:48	11° F 49'01	3°42'09	
direct	1851 Oct 01 08:25	22° F 34'19		morning rise		1852 Sep 11 10:17	6° F 50'29		
asc. node	1851 Oct 01 01:46	22° F 34'43		direct		1852 Sep 13 20:10	6° F 23'30		
morning max el	1851 Oct 07 20:29	26° F 01'40	18°00'11	asc. node		1852 Sep 16 22:49	7° F 09'26		
	1851 Oct 11 05:32	0° H		morning max el		1852 Sep 20 12:33	9° F 49'39	17°51'41	
morning set	1851 Oct 25 07:41	22° H 30'14				1852 Oct 03 21:50	0° G		
	1851 Oct 29 18:58	0° I		morning set		1852 Oct 06 17:43	4° H 59'45		
superior conj	1851 Nov 07 21:52	14° I 55'31	0°03'48	superior conj		1852 Oct 18 08:58	25° H 08'51	0°46'16	
minimum elong	1851 Nov 07 22:20	14° I 57'21	0°03'44	minimum elong		1852 Oct 18 13:06	25° H 26'12	0°45'43	
behind sun begin	1851 Nov 07 12:07	14° I 16'15				1852 Oct 21 06:58	0° J		
behind sun end	1851 Nov 08 08:33	15° I 38'22		max. Earth dist.		1852 Oct 25 02:22	6° I 12'43	1.43604 AU	
desc. node	1851 Nov 08 11:19	15° I 49'29		desc. node		1852 Oct 25 08:21	6° I 36'50		
max. Earth dist.	1851 Nov 12 10:43	22° I 09'22	1.44712 AU	evening rise		1852 Nov 02 15:10	19° I 41'21		
	1851 Nov 17 10:31	0° K				1852 Nov 09 09:09	0° K		
evening rise	1851 Nov 24 06:58	10° K 37'39		greatest brilliancy		1852 Nov 27 10:21	25° K 42'36	-0.4m	
	1851 Dec 07 00:29	0° L				1852 Dec 01 00:00	0° L		
greatest brilliancy	1851 Dec 13 20:12	9° L 50'34	-0.6m	evening max el		1852 Dec 02 15:11	1° L 45'11	21°11'41	
evening max el	1851 Dec 20 15:51	18° L 14'44	20°04'26	retrograde		1852 Dec 11 06:15	6° L 52'29		
retrograde	1851 Dec 28 08:35	22° L 45'21		asc. node		1852 Dec 13 22:06	6° L 13'06		
asc. node	1851 Dec 28 01:04	22° L 44'48		evening set		1852 Dec 15 07:29	5° L 20'03		
evening set	1851 Dec 31 23:54	21° L 28'07				1852 Dec 20 01:04	30° K		
inferior conj	1852 Jan 06 11:33	15° L 22'41	2°48'41	inferior conj		1852 Dec 20 17:19	29° K 04'14	2°10'00	
minimum elong	1852 Jan 06 08:55	15° L 31'32	2°47'59	minimum elong		1852 Dec 20 14:52	29° K 12'40	2°09'11	
min. Earth dist.	1852 Jan 07 08:08	14° L 13'38	0.66979 AU	min. Earth dist.		1852 Dec 21 01:40	28° K 35'25	0.67575 AU	
morning rise	1852 Jan 11 17:21	9° L 07'26		morning rise		1852 Dec 25 21:52	22° K 49'05		
direct	1852 Jan 17 12:55	6° L 32'59		direct		1852 Dec 31 02:31	20° K 34'21		
morning max el	1852 Jan 29 07:23	13° L 34'15	25°03'31	morning max el		1853 Jan 10 16:00	26° K 51'59	23°36'09	
desc. node	1852 Feb 04 10:33	20° L 29'37				1853 Jan 13 13:51	0° M		
	1852 Feb 11 15:43	0° N		desc. node		1853 Jan 21 07:36	9° L 41'34		

	1853 Feb 04 06:48	0°♁		desc. node	1854 Jan 08 04:37	29°♁25'14	
morning set	1853 Feb 14 22:02	17°♁14'36			1854 Jan 08 14:20	0°♁	
max. Earth dist.	1853 Feb 18 22:40	24°♁11'50	1.38891 AU	morning set	1854 Jan 26 04:23	26°♁49'53	
	1853 Feb 22 04:43	0°♁			1854 Jan 28 03:11	0°♁	
superior conj	1853 Feb 26 09:53	7°♁46'07	-1°-48'-47	max. Earth dist.	1854 Jan 31 19:59	6°♁08'01	1.41030 AU
minimum elong	1853 Feb 26 13:58	8°♁05'18	1°48'26	superior conj	1854 Feb 08 14:43	19°♁34'56	-2°-2'-23
evening rise	1853 Mar 07 15:37	25°♁32'58		minimum elong	1854 Feb 08 16:55	19°♁44'39	2°02'20
	1853 Mar 09 22:54	0°♁			1854 Feb 14 08:39	0°♁	
asc. node	1853 Mar 11 21:27	3°♁40'32		evening rise	1854 Feb 19 00:28	8°♁39'27	
evening max el	1853 Mar 23 22:48	21°♁49'31	18°44'33	asc. node	1854 Feb 26 18:29	22°♁43'05	
retrograde	1853 Apr 01 00:18	25°♁45'07			1854 Mar 03 10:21	0°♁	
evening set	1853 Apr 03 06:15	25°♁27'58		evening max el	1854 Mar 07 06:00	4°♁33'10	18°16'05
inferior conj	1853 Apr 11 02:03	21°♁05'58	2°11'14	retrograde	1854 Mar 14 07:46	8°♁05'02	
minimum elong	1853 Apr 11 06:02	20°♁58'33	2°10'07	evening set	1854 Mar 16 19:21	7°♁39'50	
min. Earth dist.	1853 Apr 14 09:46	18°♁39'06	0.57493 AU	inferior conj	1854 Mar 23 21:33	2°♁56'29	3°09'55
morning rise	1853 Apr 19 01:27	15°♁53'31		minimum elong	1854 Mar 24 00:51	2°♁49'18	3°09'18
desc. node	1853 Apr 19 06:48	15°♁47'38		min. Earth dist.	1854 Mar 27 07:23	0°♁00'24	0.59548 AU
direct	1853 Apr 24 15:36	14°♁36'43			1854 Mar 27 07:35	30°♁	
morning max el	1853 May 08 23:56	22°♁08'51	26°16'29	morning rise	1854 Mar 31 02:43	27°♁17'58	
	1853 May 15 21:59	0°♁		desc. node	1854 Apr 06 03:50	25°♁25'14	
	1853 Jun 03 02:03	0°♁		direct	1854 Apr 06 13:02	25°♁24'50	
morning set	1853 Jun 06 13:44	7°♁09'27			1854 Apr 17 06:48	0°♁	
asc. node	1853 Jun 07 20:42	9°♁53'43		morning max el	1854 Apr 20 20:53	3°♁11'38	27°20'08
					1854 May 10 10:08	0°♁	
superior conj	1853 Jun 13 14:33	22°♁24'54	0°57'23	morning set	1854 May 21 22:20	21°♁53'55	
minimum elong	1853 Jun 13 12:24	22°♁13'00	0°56'59		1854 May 25 17:41	0°♁	
max. Earth dist.	1853 Jun 14 01:22	23°♁24'18	1.32344 AU	asc. node	1854 May 25 17:46	0°♁00'27	
	1853 Jun 17 01:49	0°♁		max. Earth dist.	1854 May 28 13:47	6°♁12'07	1.32194 AU
evening rise	1853 Jun 20 14:35	7°♁31'15					
	1853 Jul 02 10:56	0°♁		superior conj	1854 May 29 02:18	7°♁20'54	0°34'50
desc. node	1853 Jul 16 06:05	19°♁56'05		minimum elong	1854 May 29 00:49	7°♁12'44	0°34'31
evening max el	1853 Jul 21 08:20	25°♁22'25	26°58'46	evening rise	1854 Jun 04 23:55	22°♁20'56	
	1853 Jul 27 05:07	0°♁			1854 Jun 08 17:08	0°♁	
retrograde	1853 Aug 04 06:27	2°♁36'21			1854 Jun 27 00:14	0°♁	
evening set	1853 Aug 11 06:19	0°♁		evening max el	1854 Jul 03 06:51	6°♁57'57	26°00'31
	1853 Aug 11 23:09	30°♁		desc. node	1854 Jul 03 03:07	6°♁49'01	
min. Earth dist.	1853 Aug 14 22:36	27°♁46'27	0.60963 AU	retrograde	1854 Jul 17 06:56	14°♁08'04	
inferior conj	1853 Aug 18 03:20	25°♁02'26	-4°-28'-12	evening set	1854 Jul 23 13:37	12°♁33'00	
minimum elong	1853 Aug 18 08:05	24°♁52'15	4°27'22	min. Earth dist.	1854 Jul 27 19:22	9°♁56'33	0.58900 AU
morning rise	1853 Aug 25 12:54	20°♁12'09		inferior conj	1854 Jul 31 02:18	7°♁30'12	-4°-54'-38
direct	1853 Aug 27 21:54	19°♁49'37		minimum elong	1854 Jul 31 04:13	7°♁26'38	4°54'33
morning max el	1853 Sep 04 02:03	23°♁22'53	18°01'59	morning rise	1854 Aug 07 22:18	3°♁03'09	
asc. node	1853 Sep 03 19:54	23°♁08'12		direct	1854 Aug 10 09:17	2°♁42'59	
	1853 Sep 09 08:38	0°♁		morning max el	1854 Aug 18 09:51	6°♁33'09	18°32'23
morning set	1853 Sep 19 21:10	18°♁19'21		asc. node	1854 Aug 21 16:57	10°♁16'12	
	1853 Sep 26 05:25	0°♁			1854 Sep 02 08:53	0°♁	
superior conj	1853 Sep 29 22:52	6°♁40'51	1°17'16	morning set	1854 Sep 03 13:02	2°♁15'28	
minimum elong	1853 Sep 30 03:15	7°♁00'14	1°16'47	superior conj	1854 Sep 12 11:21	19°♁20'16	1°36'16
max. Earth dist.	1853 Oct 07 13:19	19°♁44'04	1.41963 AU	minimum elong	1854 Sep 12 14:12	19°♁33'31	1°36'03
desc. node	1853 Oct 12 05:22	27°♁22'52			1854 Sep 18 08:14	0°♁	
evening rise	1853 Oct 13 09:46	29°♁16'42		max. Earth dist.	1854 Sep 19 19:35	2°♁35'05	1.39994 AU
	1853 Oct 13 20:38	0°♁		evening rise	1854 Sep 24 02:18	9°♁53'29	
greatest brilliancy	1853 Nov 03 00:14	0°♁		desc. node	1854 Sep 29 02:24	18°♁04'30	
evening max el	1853 Nov 10 14:46	9°♁56'04	-0.3m		1854 Oct 06 19:39	0°♁	
retrograde	1853 Nov 15 09:10	15°♁16'59	22°28'00	evening max el	1854 Oct 28 23:12	28°♁52'04	23°47'54
evening set	1853 Nov 25 01:56	21°♁02'51			1854 Oct 30 03:18	0°♁	
asc. node	1853 Nov 29 15:05	19°♁13'39		retrograde	1854 Nov 08 18:28	5°♁13'55	
inferior conj	1853 Nov 30 19:09	18°♁09'32		evening set	1854 Nov 13 21:08	3°♁07'19	
minimum elong	1853 Dec 05 00:38	12°♁51'06	1°24'36		1854 Nov 16 19:54	30°♁	
min. Earth dist.	1853 Dec 04 22:50	12°♁57'23	1°23'54	asc. node	1854 Nov 17 16:10	28°♁55'09	
morning rise	1853 Dec 04 21:53	13°♁00'40	0.67815 AU	min. Earth dist.	1854 Nov 18 18:23	27°♁27'22	0.67719 AU
direct	1853 Dec 10 06:27	6°♁38'12		inferior conj	1854 Nov 19 07:47	26°♁41'50	0°33'53
morning max el	1853 Dec 14 20:04	4°♁46'12		minimum elong	1854 Nov 19 06:59	26°♁44'33	0°33'32
greatest brilliancy	1853 Dec 24 03:33	10°♁15'15	22°08'43	morning rise	1854 Nov 24 17:01	20°♁33'30	
	1853 Dec 28 18:48	15°♁27'29	-0.4m	direct	1854 Nov 28 16:35	19°♁04'03	

morning max el	1854 Dec 06 21:37	23°♄49'05	20°48'49	direct	1855 Nov 12 14:45	3°♄23'19	
	1854 Dec 12 05:49	0°♁		morning max el	1855 Nov 19 23:34	7°♄34'02	19°41'23
greatest brilliancy	1854 Dec 12 15:46	0°♁31'55	-0.5m	greatest brilliancy	1855 Nov 28 00:15	17°♄34'15	-0.6m
desc. node	1854 Dec 26 01:39	19°♁32'06			1855 Dec 06 10:51	0°♁	
	1855 Jan 01 23:23	0°♁		desc. node	1855 Dec 12 22:41	9°♁55'38	
morning set	1855 Jan 05 08:40	5°♁14'30		morning set	1855 Dec 15 05:15	13°♁26'03	
max. Earth dist.	1855 Jan 14 00:48	19°♁01'26	1.42922 AU		1855 Dec 25 19:55	0°♁	
	1855 Jan 20 16:09	0°♁		max. Earth dist.	1855 Dec 27 12:42	2°♁41'29	1.44314 AU
superior conj	1855 Jan 20 20:05	0°♁16'32	-2°-3'-16	superior conj	1855 Dec 31 23:01	9°♁46'30	-1°-46'-38
minimum elong	1855 Jan 20 17:50	0°♁07'04	2°03'13	minimum elong	1855 Dec 31 15:33	9°♁16'25	1°46'06
evening rise	1855 Feb 01 18:25	21°♁01'36			1856 Jan 13 05:15	0°♁	
	1855 Feb 06 20:00	0°♁		evening rise	1856 Jan 14 17:10	2°♁31'35	
asc. node	1855 Feb 13 15:30	11°♁13'12		asc. node	1856 Jan 31 12:31	29°♁01'12	
evening max el	1855 Feb 18 17:21	17°♁37'38	18°07'21		1856 Feb 01 08:55	0°♁	
retrograde	1855 Feb 25 06:58	21°♁01'30		evening max el	1856 Feb 02 05:53	0°♁55'31	18°17'42
evening set	1855 Feb 27 23:33	20°♁26'58		retrograde	1856 Feb 08 17:11	4°♁24'42	
inferior conj	1855 Mar 06 11:42	15°♁22'17	3°38'20	evening set	1856 Feb 11 14:43	3°♁39'52	
minimum elong	1855 Mar 06 13:04	15°♁18'51	3°38'14		1856 Feb 16 02:12	30°♁	
min. Earth dist.	1855 Mar 09 12:29	12°♁21'47	0.61678 AU	inferior conj	1856 Feb 17 16:28	28°♁15'24	3°43'34
morning rise	1855 Mar 12 23:58	9°♁26'42		minimum elong	1856 Feb 17 15:57	28°♁16'51	3°43'32
direct	1855 Mar 19 20:52	7°♁01'34		min. Earth dist.	1856 Feb 20 03:00	25°♁32'03	0.63628 AU
desc. node	1855 Mar 24 00:51	7°♁49'54		morning rise	1856 Feb 23 15:25	22°♁09'47	
morning max el	1855 Apr 03 00:16	14°♁56'00	27°48'28	direct	1856 Mar 01 13:19	19°♁24'28	
	1855 Apr 15 05:49	0°♁		desc. node	1856 Mar 09 21:52	22°♁38'09	
	1855 May 02 21:57	0°♁		morning max el	1856 Mar 15 08:16	27°♁19'29	27°39'33
morning set	1855 May 06 02:27	6°♁22'30			1856 Mar 17 21:11	0°♁	
max. Earth dist.	1855 May 12 00:10	18°♁50'39	1.32431 AU		1856 Apr 07 21:47	0°♁	
asc. node	1855 May 12 14:48	20°♁10'03		morning set	1856 Apr 18 23:45	20°♁27'30	
					1856 Apr 23 15:46	0°♁	
superior conj	1855 May 13 12:39	22°♁09'05	0°09'37	max. Earth dist.	1856 Apr 24 04:22	1°♁06'09	1.33077 AU
minimum elong	1855 May 13 12:12	22°♁06'38	0°09'32				
behind sun begin	1855 May 13 08:05	21°♁44'10		superior conj	1856 Apr 26 19:52	6°♁43'43	0°-17'-28
behind sun end	1855 May 13 16:20	22°♁29'07		minimum elong	1856 Apr 26 20:44	6°♁48'19	0°17'16
	1855 May 17 02:52	0°♁		asc. node	1856 Apr 28 11:50	10°♁18'36	
evening rise	1855 May 20 11:23	7°♁13'36		evening rise	1856 May 03 23:07	22°♁02'51	
	1855 Jun 01 09:53	0°♁			1856 May 07 19:51	0°♁	
evening max el	1855 Jun 14 22:33	17°♁49'29	24°36'49	evening max el	1856 May 26 12:27	28°♁19'25	23°01'19
desc. node	1855 Jun 20 00:09	21°♁55'18			1856 May 28 08:46	0°♁	
retrograde	1855 Jun 28 20:37	24°♁52'12		desc. node	1856 Jun 05 21:08	4°♁39'08	
evening set	1855 Jul 03 21:07	23°♁55'24		retrograde	1856 Jun 08 22:06	5°♁00'14	
min. Earth dist.	1855 Jul 09 09:39	21°♁04'17	0.56982 AU	evening set	1856 Jun 12 10:41	4°♁32'59	
inferior conj	1855 Jul 12 05:25	19°♁15'01	-4°-50'-6	min. Earth dist.	1856 Jun 19 21:37	1°♁12'51	0.55552 AU
minimum elong	1855 Jul 12 02:16	19°♁20'09	4°49'52	inferior conj	1856 Jun 21 13:06	0°♁15'31	-4°-1'-15
morning rise	1855 Jul 20 11:08	15°♁09'42		minimum elong	1856 Jun 21 05:38	0°♁26'24	3°59'35
direct	1855 Jul 23 02:02	14°♁50'41			1856 Jun 21 23:47	30°♁	
morning max el	1855 Aug 01 08:53	19°♁10'05	19°23'58	morning rise	1856 Jun 30 03:35	26°♁22'50	
asc. node	1855 Aug 08 14:00	28°♁17'44		direct	1856 Jul 02 23:49	26°♁03'40	
	1855 Aug 09 15:28	0°♁			1856 Jul 12 14:44	0°♁	
morning set	1855 Aug 18 13:26	16°♁36'29		morning max el	1856 Jul 13 20:58	1°♁06'03	20°36'35
	1855 Aug 25 06:06	0°♁		asc. node	1856 Jul 25 11:03	17°♁00'36	
					1856 Aug 01 04:55	0°♁	
superior conj	1855 Aug 26 16:39	2°♁49'52	1°44'51	morning set	1856 Aug 01 19:37	1°♁15'04	
minimum elong	1855 Aug 26 17:34	2°♁54'22	1°44'50				
max. Earth dist.	1855 Sep 01 23:21	14°♁45'30	1.37945 AU	superior conj	1856 Aug 09 09:57	16°♁55'40	1°44'56
evening rise	1855 Sep 05 18:45	21°♁37'03		minimum elong	1856 Aug 09 09:15	16°♁52'04	1°44'55
	1855 Sep 10 16:00	0°♁		max. Earth dist.	1856 Aug 14 06:11	26°♁35'20	1.36066 AU
desc. node	1855 Sep 15 23:27	8°♁36'46			1856 Aug 16 00:41	0°♁	
	1855 Sep 30 18:09	0°♁		evening rise	1856 Aug 18 08:01	4°♁20'10	
evening max el	1855 Oct 11 11:12	12°♁30'06	25°04'59	desc. node	1856 Sep 01 20:28	28°♁54'24	
retrograde	1855 Oct 23 06:55	19°♁21'05			1856 Sep 02 13:37	0°♁	
evening set	1855 Oct 28 23:57	16°♁58'07		evening max el	1856 Sep 22 23:05	26°♁09'08	26°11'53
min. Earth dist.	1855 Nov 02 12:53	11°♁52'46	0.67285 AU		1856 Sep 27 10:44	0°♁	
inferior conj	1855 Nov 03 12:57	10°♁33'57	0°-20'-53	retrograde	1856 Oct 05 14:39	3°♁18'40	
minimum elong	1855 Nov 03 13:29	10°♁32'13	0°20'41	evening set	1856 Oct 11 21:42	0°♁42'48	
asc. node	1855 Nov 04 13:11	9°♁15'18			1856 Oct 12 16:58	30°♁	
morning rise	1855 Nov 09 03:36	4°♁32'33		min. Earth dist.	1856 Oct 16 03:02	26°♁13'36	0.66508 AU

inferior conj	1856 Oct 17 14:21	24°♁24'25	-1°-18'-21	morning rise	1857 Oct 07 16:31	2°♁30'45	
minimum elong	1856 Oct 17 16:25	24°♁18'01	1°17'30	asc. node	1857 Oct 08 07:17	2°♁14'45	
asc. node	1856 Oct 21 10:13	20°♁06'59		direct	1857 Oct 10 09:35	1°♁50'46	
morning rise	1856 Oct 23 12:11	18°♁32'45		morning max el	1857 Oct 16 22:24	5°♁22'51	18°13'03
direct	1856 Oct 26 13:05	17°♁40'05			1857 Nov 02 14:54	0°♁	
morning max el	1856 Nov 02 08:31	21°♁26'50	18°49'01	morning set	1857 Nov 04 13:04	3°♁09'23	
	1856 Nov 09 03:43	0°♁		desc. node	1857 Nov 15 16:46	21°♁13'22	
morning set	1856 Nov 23 18:44	22°♁34'05					
	1856 Nov 28 11:56	0°♁		superior conj	1857 Nov 19 07:41	26°♁58'36	0°-24'-5
desc. node	1856 Nov 28 19:43	0°♁30'39		minimum elong	1857 Nov 19 04:35	26°♁46'19	0°23'40
max. Earth dist.	1856 Dec 09 05:29	16°♁51'20	1.45049 AU		1857 Nov 21 05:38	0°♁	
				max. Earth dist.	1857 Nov 22 00:36	1°♁14'38	1.45050 AU
superior conj	1856 Dec 10 04:57	18°♁23'35	-1°-11'-20	evening rise	1857 Dec 05 18:22	22°♁42'41	
minimum elong	1856 Dec 09 20:39	17°♁50'56	1°10'25		1857 Dec 10 10:51	0°♁	
	1856 Dec 17 13:17	0°♁		greatest brilliancy	1857 Dec 21 17:33	17°♁09'27	-0.7m
evening rise	1856 Dec 25 17:07	13°♁03'46		evening max el	1857 Dec 30 00:49	27°♁50'12	19°31'34
	1857 Jan 05 06:17	0°♁			1858 Jan 01 09:55	0°♁	
evening max el	1857 Jan 15 17:04	14°♁20'50	18°46'13	asc. node	1858 Jan 04 06:34	1°♁39'20	
asc. node	1857 Jan 17 09:32	15°♁54'32		retrograde	1858 Jan 06 06:58	2°♁01'40	
retrograde	1857 Jan 22 10:14	18°♁06'23		evening set	1858 Jan 09 17:29	0°♁52'28	
evening set	1857 Jan 25 13:34	17°♁10'07			1858 Jan 10 20:40	30°♁	
inferior conj	1857 Jan 31 07:57	11°♁27'53	3°31'43	inferior conj	1858 Jan 15 07:01	24°♁54'48	3°07'15
minimum elong	1857 Jan 31 06:07	11°♁33'30	3°31'28	minimum elong	1858 Jan 15 04:30	25°♁03'01	3°06'41
min. Earth dist.	1857 Feb 02 03:01	9°♁16'15	0.65249 AU	min. Earth dist.	1858 Jan 16 11:21	23°♁22'18	0.66472 AU
morning rise	1857 Feb 05 21:32	5°♁16'38		morning rise	1858 Jan 20 14:47	18°♁40'38	
direct	1857 Feb 12 12:57	2°♁25'47		direct	1858 Jan 26 18:33	15°♁57'22	
desc. node	1857 Feb 24 18:55	9°♁13'51		morning max el	1858 Feb 08 03:10	23°♁17'49	25°49'52
morning max el	1857 Feb 25 17:56	10°♁10'30	26°57'22	desc. node	1858 Feb 11 15:58	27°♁07'02	
	1857 Mar 13 09:43	0°♁			1858 Feb 14 02:17	0°♁	
	1857 Mar 31 08:46	0°♁			1858 Mar 06 18:01	0°♁	
morning set	1857 Apr 02 11:01	3°♁58'08		morning set	1858 Mar 16 08:04	16°♁42'21	
max. Earth dist.	1857 Apr 06 22:33	12°♁47'49	1.34171 AU	max. Earth dist.	1858 Mar 20 05:04	23°♁58'54	1.35730 AU
					1858 Mar 23 07:15	0°♁	
superior conj	1857 Apr 10 21:52	20°♁57'34	0°-45'-21	superior conj	1858 Mar 25 16:07	4°♁43'48	-1°-12'-35
minimum elong	1857 Apr 11 00:09	21°♁09'31	0°44'55	minimum elong	1858 Mar 25 19:42	5°♁01'49	1°12'01
	1857 Apr 15 04:51	0°♁		asc. node	1858 Apr 02 05:54	20°♁14'01	
asc. node	1857 Apr 15 08:52	0°♁21'15		evening rise	1858 Apr 02 15:46	21°♁04'25	
evening rise	1857 Apr 18 09:13	6°♁41'42			1858 Apr 07 03:25	0°♁	
	1857 May 01 01:30	0°♁		evening max el	1858 Apr 20 14:46	20°♁11'36	20°10'01
evening max el	1857 May 08 08:10	8°♁59'07	21°28'52	retrograde	1858 May 01 02:54	25°♁16'24	
retrograde	1857 May 20 12:56	14°♁57'08		evening set	1858 May 03 03:53	25°♁05'43	
evening set	1857 May 22 23:05	14°♁43'48		desc. node	1858 May 10 15:10	22°♁01'38	
desc. node	1857 May 23 18:08	14°♁33'53		inferior conj	1858 May 12 04:22	21°♁07'03	0°-27'-4
inferior conj	1857 Jun 01 08:16	10°♁43'42	-2°-26'-13	minimum elong	1858 May 12 03:07	21°♁08'55	0°26'38
minimum elong	1857 Jun 01 01:42	10°♁52'54	2°24'03	min. Earth dist.	1858 May 13 22:51	20°♁04'03	0.55256 AU
min. Earth dist.	1857 Jun 01 09:44	10°♁41'39	0.54922 AU	morning rise	1858 May 20 23:55	16°♁47'36	
morning rise	1857 Jun 10 04:47	6°♁46'55		direct	1858 May 24 23:15	16°♁13'15	
direct	1857 Jun 13 10:35	6°♁24'00		morning max el	1858 Jun 07 14:28	22°♁55'11	23°48'49
morning max el	1857 Jun 25 21:50	12°♁17'58	22°07'26		1858 Jun 13 21:30	0°♁	
	1857 Jul 08 22:47	0°♁		asc. node	1858 Jun 29 05:10	25°♁51'05	
asc. node	1857 Jul 12 08:07	6°♁14'31			1858 Jul 01 05:25	0°♁	
morning set	1857 Jul 17 05:26	16°♁05'14		morning set	1858 Jul 01 17:03	1°♁01'08	
	1857 Jul 23 19:10	0°♁					
superior conj	1857 Jul 24 11:36	1°♁26'42	1°38'09	superior conj	1858 Jul 08 18:44	16°♁13'38	1°25'48
minimum elong	1857 Jul 24 09:48	1°♁17'11	1°38'01	minimum elong	1858 Jul 08 16:23	16°♁01'00	1°25'31
max. Earth dist.	1857 Jul 27 21:28	8°♁32'20	1.34516 AU	max. Earth dist.	1858 Jul 10 22:10	20°♁49'29	1.33357 AU
evening rise	1857 Aug 01 13:26	17°♁50'44			1858 Jul 15 07:45	0°♁	
	1857 Aug 08 02:51	0°♁		evening rise	1858 Jul 16 06:41	1°♁55'53	
desc. node	1857 Aug 19 17:28	18°♁50'49			1858 Aug 01 00:12	0°♁	
	1857 Aug 27 19:55	0°♁		desc. node	1858 Aug 06 14:30	8°♁16'27	
evening max el	1857 Sep 05 11:26	9°♁42'47	27°00'51	evening max el	1858 Aug 18 22:54	22°♁58'37	27°24'40
retrograde	1857 Sep 18 16:54	17°♁00'02			1858 Aug 30 03:39	0°♁	
evening set	1857 Sep 25 12:10	14°♁17'31		retrograde	1858 Sep 01 13:03	0°♁16'23	
min. Earth dist.	1857 Sep 29 10:31	10°♁25'10	0.65385 AU		1858 Sep 03 20:40	30°♁	
inferior conj	1857 Oct 01 09:55	8°♁09'38	-2°-16'-41	evening set	1858 Sep 08 16:28	27°♁36'33	
minimum elong	1857 Oct 01 13:33	7°♁59'13	2°15'18	min. Earth dist.	1858 Sep 12 09:00	24°♁19'06	0.63912 AU

inferior conj	1858 Sep 14 21:08	21° \mathbb{M} 43'21	-3°-13'-18	retrograde	1859 Aug 15 02:36	12° \mathbb{M} 58'52	
minimum elong	1858 Sep 15 02:02	21° \mathbb{M} 30'36	3°11'43	evening set	1859 Aug 22 06:55	10° \mathbb{M} 33'52	
morning rise	1858 Sep 21 13:45	16° \mathbb{M} 20'51		min. Earth dist.	1859 Aug 25 21:03	7° \mathbb{M} 44'10	0.62113 AU
direct	1858 Sep 24 01:35	15° \mathbb{M} 49'55		inferior conj	1859 Aug 28 20:59	4° \mathbb{M} 58'35	-4°-4'-3
asc. node	1858 Sep 25 04:22	15° \mathbb{M} 56'13		minimum elong	1859 Aug 29 02:16	4° \mathbb{M} 46'22	4°02'49
morning max el	1858 Sep 30 14:29	19° \mathbb{M} 15'37	17°54'18		1859 Sep 04 19:48	30° \mathcal{O}	
	1858 Oct 08 12:34	0° \mathcal{O}		morning rise	1859 Sep 05 00:22	29° \mathcal{O} 55'57	
morning set	1858 Oct 17 10:20	15° \mathcal{O} 02'46		direct	1859 Sep 07 09:38	29° \mathcal{O} 31'04	
	1858 Oct 26 05:49	0° \mathbb{L}			1859 Sep 09 22:21	0° \mathbb{M}	
				asc. node	1859 Sep 12 01:26	1° \mathbb{M} 08'44	
superior conj	1858 Oct 30 03:37	6° \mathbb{L} 26'50	0°23'02	morning max el	1859 Sep 14 05:51	2° \mathbb{M} 58'45	17°53'44
minimum elong	1858 Oct 30 06:06	6° \mathbb{L} 37'00	0°22'41	morning set	1859 Sep 30 04:30	27° \mathbb{M} 55'54	
desc. node	1858 Nov 02 13:47	11° \mathbb{L} 59'51			1859 Oct 01 08:00	0° \mathcal{O}	
max. Earth dist.	1858 Nov 04 18:48	15° \mathbb{L} 32'03	1.44325 AU				
	1858 Nov 14 00:20	0° \mathcal{Z}		superior conj	1859 Oct 11 02:27	17° \mathcal{O} 15'01	1°00'55
evening rise	1858 Nov 15 04:30	1° \mathcal{Z} 48'33		minimum elong	1859 Oct 11 07:02	17° \mathcal{O} 34'38	1°00'21
	1858 Dec 04 02:37	0° \mathcal{Z}		max. Earth dist.	1859 Oct 18 09:02	29° \mathcal{O} 25'14	1.42966 AU
greatest brilliancy	1858 Dec 07 03:26	4° \mathcal{Z} 08'43	-0.5m		1859 Oct 18 17:34	0° \mathbb{L}	
evening max el	1858 Dec 13 03:26	11° \mathcal{Z} 20'17	20°31'38	desc. node	1859 Oct 20 10:50	2° \mathbb{L} 47'12	
retrograde	1858 Dec 21 04:53	16° \mathcal{Z} 05'31		evening rise	1859 Oct 25 15:12	11° \mathbb{L} 00'55	
asc. node	1858 Dec 22 03:37	16° \mathcal{Z} 00'29			1859 Nov 07 03:53	0° \mathcal{Z}	
evening set	1858 Dec 25 00:17	14° \mathcal{Z} 41'49		greatest brilliancy	1859 Nov 21 04:08	19° \mathcal{Z} 19'24	-0.4m
inferior conj	1858 Dec 30 10:58	8° \mathcal{Z} 31'34	2°33'09	evening max el	1859 Nov 26 00:19	24° \mathcal{Z} 50'48	21°43'13
minimum elong	1858 Dec 30 08:21	8° \mathcal{Z} 40'28	2°32'22		1859 Dec 03 08:35	0° \mathcal{Z}	
min. Earth dist.	1858 Dec 31 02:07	7° \mathcal{Z} 40'01	0.67287 AU	retrograde	1859 Dec 05 01:57	0° \mathcal{Z} 14'38	
morning rise	1859 Jan 04 15:56	2° \mathcal{Z} 16'23			1859 Dec 06 17:43	30° \mathcal{Z}	
	1859 Jan 08 17:13	30° \mathcal{Z}		evening set	1859 Dec 09 08:06	28° \mathcal{Z} 34'59	
direct	1859 Jan 10 05:17	29° \mathcal{Z} 49'54		asc. node	1859 Dec 09 00:41	28° \mathcal{Z} 49'06	
	1859 Jan 11 18:41	0° \mathcal{Z}		inferior conj	1859 Dec 14 17:37	22° \mathcal{Z} 15'36	1°51'28
morning max el	1859 Jan 21 11:36	6° \mathcal{Z} 32'54	24°26'54	minimum elong	1859 Dec 14 15:23	22° \mathcal{Z} 23'19	1°50'39
desc. node	1859 Jan 29 13:00	15° \mathcal{Z} 54'47		min. Earth dist.	1859 Dec 14 21:02	22° \mathcal{Z} 03'44	0.67723 AU
	1859 Feb 08 17:06	0° \mathcal{Z}		morning rise	1859 Dec 19 22:26	16° \mathcal{Z} 01'13	
morning set	1859 Feb 26 09:25	28° \mathcal{Z} 25'06		direct	1859 Dec 24 20:31	13° \mathcal{Z} 56'18	
	1859 Feb 27 07:02	0° \mathcal{H}		morning max el	1860 Jan 03 21:13	19° \mathcal{Z} 53'17	22°58'25
max. Earth dist.	1859 Mar 02 02:43	5° \mathcal{H} 02'39	1.37672 AU	greatest brilliancy	1860 Jan 08 15:28	25° \mathcal{Z} 12'18	-0.3m
					1860 Jan 12 10:42	0° \mathcal{Z}	
superior conj	1859 Mar 08 23:22	17° \mathcal{H} 53'34	-1°-37'-4	desc. node	1860 Jan 16 10:02	5° \mathcal{Z} 21'24	
minimum elong	1859 Mar 09 03:38	18° \mathcal{H} 14'08	1°36'35		1860 Feb 01 22:18	0° \mathcal{Z}	
	1859 Mar 15 03:08	0° \mathcal{Y}		morning set	1860 Feb 07 08:45	8° \mathcal{Z} 49'49	
evening rise	1859 Mar 17 16:22	5° \mathcal{Y} 04'23		max. Earth dist.	1860 Feb 11 22:03	16° \mathcal{Z} 31'40	1.39811 AU
asc. node	1859 Mar 20 02:58	9° \mathcal{Y} 52'24			1860 Feb 19 11:57	0° \mathcal{H}	
	1859 Apr 01 10:21	0° \mathcal{B}					
evening max el	1859 Apr 03 08:51	2° \mathcal{B} 04'01	19°09'56	superior conj	1860 Feb 19 15:17	0° \mathcal{H} 15'15	-1°-55'-48
retrograde	1859 Apr 12 05:20	6° \mathcal{B} 21'17		minimum elong	1860 Feb 19 18:51	0° \mathcal{H} 31'39	1°55'35
evening set	1859 Apr 14 08:13	6° \mathcal{B} 07'34		evening rise	1860 Feb 29 07:59	18° \mathcal{H} 32'57	
inferior conj	1859 Apr 22 14:59	1° \mathcal{B} 55'57	1°21'58	asc. node	1860 Mar 06 00:00	29° \mathcal{H} 10'05	
minimum elong	1859 Apr 22 18:04	1° \mathcal{B} 50'42	1°20'57		1860 Mar 06 11:07	0° \mathcal{Y}	
	1859 Apr 25 11:35	30° \mathcal{Y}		evening max el	1860 Mar 16 12:08	14° \mathcal{Y} 31'17	18°29'58
min. Earth dist.	1859 Apr 25 13:57	29° \mathcal{Y} 56'08	0.56478 AU	retrograde	1860 Mar 24 02:18	18° \mathcal{Y} 15'12	
desc. node	1859 Apr 27 12:12	28° \mathcal{Y} 44'20		evening set	1860 Mar 26 10:32	17° \mathcal{Y} 54'59	
morning rise	1859 Apr 30 23:49	27° \mathcal{Y} 02'31		inferior conj	1860 Apr 02 22:27	13° \mathcal{Y} 24'00	2°40'15
direct	1859 May 05 23:19	26° \mathcal{Y} 04'56		minimum elong	1860 Apr 03 02:25	13° \mathcal{Y} 16'06	2°39'17
	1859 May 16 05:28	0° \mathcal{B}		min. Earth dist.	1860 Apr 06 08:45	10° \mathcal{Y} 41'39	0.58329 AU
morning max el	1859 May 20 04:59	3° \mathcal{B} 22'39	25°27'26	morning rise	1860 Apr 10 14:06	7° \mathcal{Y} 58'55	
	1859 Jun 08 02:54	0° \mathbb{I}		desc. node	1860 Apr 13 09:14	6° \mathcal{Y} 53'11	
morning set	1859 Jun 16 04:51	15° \mathbb{I} 57'41		direct	1860 Apr 16 13:35	6° \mathcal{Y} 26'57	
asc. node	1859 Jun 16 02:14	15° \mathbb{I} 43'53		morning max el	1860 Apr 30 22:49	14° \mathcal{Y} 07'05	26°47'35
	1859 Jun 22 16:25	0° \mathcal{E}			1860 May 13 14:55	0° \mathcal{B}	
					1860 May 30 05:53	0° \mathbb{I}	
superior conj	1859 Jun 23 05:08	1° \mathcal{E} 09'39	1°08'54	morning set	1860 May 30 15:05	0° \mathbb{I} 48'05	
minimum elong	1859 Jun 23 02:47	0° \mathcal{E} 56'43	1°08'30	asc. node	1860 Jun 01 23:16	5° \mathbb{I} 46'42	
max. Earth dist.	1859 Jun 24 06:08	3° \mathcal{E} 26'16	1.32598 AU				
evening rise	1859 Jun 30 08:18	16° \mathcal{E} 25'25		superior conj	1860 Jun 06 16:52	16° \mathbb{I} 07'10	0°48'12
	1859 Jul 07 06:31	0° \mathcal{O}		minimum elong	1860 Jun 06 14:57	15° \mathbb{I} 56'35	0°47'49
desc. node	1859 Jul 24 11:32	26° \mathcal{O} 58'30		max. Earth dist.	1860 Jun 06 17:50	16° \mathbb{I} 12'31	1.32228 AU
	1859 Jul 26 22:38	0° \mathbb{M}			1860 Jun 13 02:15	0° \mathcal{E}	
evening max el	1859 Aug 01 07:04	5° \mathbb{M} 43'12	27°17'43	evening rise	1860 Jun 13 15:26	1° \mathcal{E} 09'27	

	1860 Jun 29 08:28	0°♁		superior conj	1861 May 22 04:13	1°♃00'33	0°24'25
desc. node	1860 Jul 10 08:33	14°♁37'55		minimum elong	1861 May 22 03:08	0°♃54'36	0°24'11
evening max el	1860 Jul 13 09:19	17°♁44'20	26°37'38	evening rise	1861 May 29 01:52	16°♃00'54	
retrograde	1860 Jul 27 08:38	24°♁57'34			1861 Jun 05 01:03	0°♃	
evening set	1860 Aug 03 02:54	23°♁01'06		evening max el	1861 Jun 25 04:36	28°♃59'22	25°27'20
min. Earth dist.	1860 Aug 06 22:53	20°♁24'58	0.60084 AU		1861 Jun 26 06:48	0°♁	
inferior conj	1860 Aug 10 05:58	17°♁45'41	-4°-42'-18	desc. node	1861 Jun 27 05:34	0°♁49'23	
minimum elong	1860 Aug 10 09:50	17°♁37'51	4°41'50	retrograde	1861 Jul 09 05:05	6°♁07'45	
morning rise	1860 Aug 17 20:07	13°♁05'35		evening set	1861 Jul 15 00:01	4°♁49'25	
direct	1860 Aug 20 05:34	12°♁44'21		min. Earth dist.	1861 Jul 19 16:41	2°♁08'27	0.58042 AU
morning max el	1860 Aug 27 17:21	16°♁23'23	18°12'28	inferior conj	1861 Jul 22 20:41	29°♃55'40	-4°-57'-25
asc. node	1860 Aug 28 22:28	17°♁38'33		minimum elong	1861 Jul 22 20:38	29°♃55'45	4°57'26
	1860 Sep 06 07:21	0°♃			1861 Jul 22 18:13	30°♃	
morning set	1860 Sep 12 13:43	11°♃32'03		morning rise	1861 Jul 30 20:54	25°♃38'15	
				direct	1861 Aug 02 09:09	25°♃18'49	
superior conj	1860 Sep 22 02:40	29°♃17'50	1°26'42	morning max el	1861 Aug 10 21:44	29°♃20'17	18°51'43
minimum elong	1860 Sep 22 06:31	29°♃35'14	1°26'20		1861 Aug 11 13:58	0°♁	
	1860 Sep 22 12:00	0°♂		asc. node	1861 Aug 15 19:30	5°♁10'41	
max. Earth dist.	1860 Sep 29 17:26	12°♂38'25	1.41146 AU	morning set	1861 Aug 27 09:33	25°♁39'13	
evening rise	1860 Oct 04 18:14	20°♂59'54			1861 Aug 29 14:37	0°♃	
desc. node	1860 Oct 06 07:52	23°♂31'57					
	1860 Oct 10 10:02	0°♃		superior conj	1861 Sep 04 22:52	12°♃19'47	1°41'04
	1860 Oct 31 09:34	0°♂		minimum elong	1861 Sep 05 00:53	12°♃29'24	1°40'57
greatest brilliancy	1860 Nov 02 03:24	2°♂10'09	-0.2m	max. Earth dist.	1861 Sep 11 21:34	25°♃08'28	1.39111 AU
evening max el	1860 Nov 07 16:13	8°♂23'32	23°01'52		1861 Sep 14 15:57	0°♂	
retrograde	1860 Nov 17 20:35	14°♂26'03		evening rise	1861 Sep 15 21:03	2°♂05'13	
evening set	1860 Nov 22 15:14	12°♂29'28		desc. node	1861 Sep 23 04:53	14°♂09'59	
asc. node	1860 Nov 24 21:41	10°♂12'00			1861 Oct 03 16:19	0°♃	
min. Earth dist.	1860 Nov 27 17:45	6°♂30'10	0.67811 AU	evening max el	1861 Oct 21 05:10	22°♃00'07	24°21'36
inferior conj	1860 Nov 28 01:05	6°♂04'54	1°03'41	retrograde	1861 Nov 01 11:31	28°♃35'42	
minimum elong	1860 Nov 27 23:39	6°♂09'49	1°03'06	evening set	1861 Nov 06 20:06	26°♃22'13	
	1860 Dec 03 04:51	30°♃		min. Earth dist.	1861 Nov 11 13:47	20°♃56'31	0.67569 AU
morning rise	1860 Dec 03 08:05	29°♃53'28		asc. node	1861 Nov 11 18:42	20°♃40'02	
direct	1860 Dec 07 15:28	28°♃11'20		inferior conj	1861 Nov 12 07:36	19°♃56'44	0°11'05
	1860 Dec 12 13:25	0°♂		minimum elong	1861 Nov 12 07:19	19°♃57'38	0°10'58
morning max el	1860 Dec 16 11:18	3°♂21'20	21°33'24	transit begin	1861 Nov 12 05:18	20°♃04'25	
greatest brilliancy	1860 Dec 21 10:56	9°♂01'26	-0.4m	transit end	1861 Nov 12 09:21	19°♃50'51	
desc. node	1861 Jan 02 07:04	25°♂16'08		morning rise	1861 Nov 17 18:52	13°♃50'44	
	1861 Jan 05 12:05	0°♃		direct	1861 Nov 21 12:57	12°♃30'09	
morning set	1861 Jan 17 02:58	17°♃51'47		morning max el	1861 Nov 29 08:32	16°♃59'29	20°18'23
max. Earth dist.	1861 Jan 23 21:48	28°♃50'35	1.41877 AU	greatest brilliancy	1861 Dec 05 22:13	24°♃51'04	-0.5m
	1861 Jan 24 14:34	0°♂			1861 Dec 09 15:47	0°♂	
				desc. node	1861 Dec 20 04:06	15°♂30'49	
superior conj	1861 Jan 31 10:45	11°♂37'01	-2°-4'-38	morning set	1861 Dec 27 00:49	26°♂01'18	
minimum elong	1861 Jan 31 11:21	11°♂39'38	2°04'38		1861 Dec 29 14:16	0°♃	
	1861 Feb 10 17:08	0°♂		max. Earth dist.	1862 Jan 06 05:30	12°♃04'36	1.43589 AU
evening rise	1861 Feb 11 11:03	1°♂21'56					
asc. node	1861 Feb 20 21:02	18°♂00'14		superior conj	1862 Jan 12 04:58	21°♃48'19	-1°-58'-34
evening max el	1861 Feb 27 21:31	27°♂25'12	18°10'01	minimum elong	1862 Jan 12 00:21	21°♃29'17	1°58'21
	1861 Mar 03 07:47	0°♂			1862 Jan 17 02:40	0°♂	
retrograde	1861 Mar 06 16:55	0°♂51'53		evening rise	1862 Jan 24 21:19	13°♂22'28	
evening set	1861 Mar 09 06:34	0°♂22'59			1862 Feb 03 14:42	0°♂	
	1861 Mar 10 04:08	30°♂		asc. node	1862 Feb 07 18:02	6°♂13'51	
inferior conj	1861 Mar 16 02:22	25°♂30'46	3°25'14	evening max el	1862 Feb 11 09:47	10°♂36'36	18°09'29
minimum elong	1861 Mar 16 04:55	25°♂24'54	3°24'53	retrograde	1862 Feb 17 21:09	14°♂00'49	
min. Earth dist.	1861 Mar 19 09:31	22°♂29'28	0.60462 AU	evening set	1862 Feb 20 15:54	13°♂21'56	
morning rise	1861 Mar 22 23:59	19°♂43'50		inferior conj	1862 Feb 26 23:13	8°♂08'49	3°42'56
direct	1861 Mar 29 16:06	17°♂35'36		minimum elong	1862 Feb 26 23:45	8°♂07'27	3°42'55
desc. node	1861 Mar 31 06:15	17°♂42'35		min. Earth dist.	1862 Mar 01 18:24	5°♂13'20	0.62550 AU
morning max el	1861 Apr 12 22:35	25°♂27'17	27°36'40	morning rise	1862 Mar 05 05:23	2°♂08'33	
	1861 Apr 17 03:30	0°♂			1862 Mar 09 05:51	30°♂	
	1861 May 07 00:04	0°♂		direct	1862 Mar 12 04:00	29°♂32'55	
morning set	1861 May 14 22:00	15°♂26'28			1862 Mar 15 04:59	0°♂	
asc. node	1861 May 19 20:19	25°♂55'08		desc. node	1862 Mar 18 03:16	1°♂12'19	
max. Earth dist.	1861 May 21 05:37	28°♂56'44	1.32244 AU	morning max el	1862 Mar 26 03:59	7°♂28'12	27°48'58
	1861 May 21 17:10	0°♃			1862 Apr 12 09:39	0°♂	
				morning set	1862 Apr 28 23:32	29°♂45'46	

	1862 Apr 29 02:21	0°♄			1863 Mar 17 01:33	0°♁		
max. Earth dist.	1862 May 04 13:45	11°♄26'23	1.32655 AU		1863 Apr 05 10:20	0°♁		
				morning set	1863 Apr 12 17:00	13°♁37'11		
superior conj	1862 May 06 13:29	15°♄43'49	0°-1'-42		max. Earth dist.	1863 Apr 17 14:16	23°♁28'56	1.33492 AU
minimum elong	1862 May 06 13:34	15°♄44'14	0°01'41			1863 Apr 20 16:49	0°♄	
behind sun begin	1862 May 06 08:24	15°♄16'15						
behind sun end	1862 May 06 18:44	16°♄12'15		superior conj	1863 Apr 20 18:46	0°♄10'19	0°-29'-16	
asc. node	1862 May 06 17:21	16°♄04'48		minimum elong	1863 Apr 20 20:14	0°♄18'04	0°28'58	
	1862 May 13 03:42	0°♂		asc. node	1863 Apr 23 14:23	6°♄11'12		
evening rise	1862 May 13 13:40	0°♂52'58		evening rise	1863 Apr 28 00:59	15°♄38'46		
	1862 May 29 17:10	0°♁			1863 May 05 06:24	0°♂		
evening max el	1862 Jun 06 18:59	9°♁39'13	23°56'48	evening max el	1863 May 19 10:27	20°♂09'15	22°20'48	
desc. node	1862 Jun 14 02:33	14°♁59'49		desc. node	1863 May 31 23:33	26°♂33'36		
retrograde	1862 Jun 20 13:25	16°♁34'12		retrograde	1863 Jun 01 09:25	26°♂33'59		
evening set	1862 Jun 24 22:28	15°♁51'56		evening set	1863 Jun 04 09:07	26°♂14'17		
min. Earth dist.	1862 Jul 01 05:41	12°♁50'00	0.56294 AU	min. Earth dist.	1863 Jun 12 17:09	22°♂38'23	0.55173 AU	
inferior conj	1862 Jul 03 15:16	11°♁21'48	-4°-35'-25	inferior conj	1863 Jun 13 16:18	22°♂05'42	-3°-25'-49	
minimum elong	1862 Jul 03 09:53	11°♁30'06	4°34'39	minimum elong	1863 Jun 13 08:26	22°♂16'49	3°23'40	
morning rise	1862 Jul 12 00:47	7°♁23'06		morning rise	1863 Jun 22 09:56	18°♂14'03		
direct	1862 Jul 14 17:52	7°♁04'06		direct	1863 Jun 25 09:42	17°♂53'51		
morning max el	1862 Jul 24 16:14	11°♁40'30	19°52'20	morning max el	1863 Jul 06 23:20	23°♂17'02	21°13'23	
asc. node	1862 Aug 02 16:34	23°♁31'29			1863 Jul 12 20:00	0°♁		
	1862 Aug 06 08:19	0°♁		asc. node	1863 Jul 20 13:38	12°♁28'38		
morning set	1862 Aug 11 12:45	10°♁09'02		morning set	1863 Jul 26 20:46	24°♁53'30		
					1863 Jul 29 07:37	0°♁		
superior conj	1862 Aug 19 09:48	26°♁06'24	1°45'50	superior conj	1863 Aug 03 07:05	10°♁24'08	1°42'50	
minimum elong	1862 Aug 19 09:59	26°♁07'15	1°45'50	minimum elong	1863 Aug 03 05:50	10°♁17'43	1°42'45	
	1862 Aug 21 09:05	0°♁		max. Earth dist.	1863 Aug 07 12:40	19°♁00'22	1.35360 AU	
max. Earth dist.	1862 Aug 25 02:18	7°♁08'48	1.37115 AU	evening rise	1863 Aug 11 19:42	27°♁20'36		
evening rise	1862 Aug 28 22:59	14°♁16'01			1863 Aug 13 05:43	0°♁		
	1862 Sep 07 04:08	0°♁		desc. node	1863 Aug 27 22:57	24°♁46'36		
desc. node	1862 Sep 10 01:55	4°♁37'03			1863 Aug 31 11:53	0°♁		
	1862 Sep 28 11:06	0°♁		evening max el	1863 Sep 16 05:20	19°♁17'41	26°35'17	
evening max el	1862 Oct 03 17:14	5°♁40'11	25°35'14	retrograde	1863 Sep 29 03:10	26°♁31'11		
retrograde	1862 Oct 15 21:53	12°♁39'38		evening set	1863 Oct 05 15:57	23°♁51'21		
evening set	1862 Oct 21 21:00	10°♁10'49		min. Earth dist.	1863 Oct 09 18:12	19°♁38'08	0.66079 AU	
min. Earth dist.	1862 Oct 26 06:45	5°♁20'39	0.66999 AU	inferior conj	1863 Oct 11 10:36	17°♁37'07	-1°-43'-6	
inferior conj	1862 Oct 27 11:25	3°♁48'49	0°-45'00	minimum elong	1863 Oct 11 13:20	17°♁28'54	1°42'00	
minimum elong	1862 Oct 27 12:35	3°♁45'06	0°44'31	asc. node	1863 Oct 16 12:47	12°♁26'46		
asc. node	1862 Oct 29 15:44	1°♁07'07		morning rise	1863 Oct 17 12:00	11°♁50'44		
	1862 Oct 30 16:03	30°♁		direct	1863 Oct 20 09:20	11°♁03'53		
morning rise	1862 Nov 02 04:54	27°♁51'07		morning max el	1863 Oct 27 01:01	14°♁42'56	18°31'44	
direct	1862 Nov 05 11:32	26°♁49'11			1863 Nov 07 04:49	0°♁		
	1862 Nov 11 17:41	0°♁		morning set	1863 Nov 16 03:24	14°♁14'40		
morning max el	1862 Nov 12 13:36	0°♁48'09	19°17'12	desc. node	1863 Nov 23 22:14	26°♁38'41		
greatest brilliancy	1862 Nov 22 10:44	13°♁38'14	-0.7m		1863 Nov 26 01:09	0°♁		
	1862 Dec 03 04:25	0°♁		superior conj	1863 Dec 01 23:24	9°♁19'48	0°-52'-4	
morning set	1862 Dec 06 02:05	4°♁30'18		minimum elong	1863 Dec 01 16:49	8°♁53'54	0°51'15	
desc. node	1862 Dec 07 01:10	5°♁59'57		max. Earth dist.	1863 Dec 02 14:51	10°♁20'27	1.45140 AU	
max. Earth dist.	1862 Dec 19 20:20	26°♁01'28	1.44722 AU		1863 Dec 15 02:44	0°♁		
	1862 Dec 22 08:35	0°♁		evening rise	1863 Dec 18 00:41	4°♁36'53		
superior conj	1862 Dec 22 21:36	0°♁51'43	-1°-33'-46		1864 Jan 03 09:40	0°♁		
minimum elong	1862 Dec 22 12:56	0°♁17'16	1°32'58	evening max el	1864 Jan 09 08:00	7°♁25'44	19°03'30	
evening rise	1863 Jan 06 10:41	24°♁28'16		asc. node	1864 Jan 12 12:04	10°♁06'33		
	1863 Jan 09 18:43	0°♁		retrograde	1864 Jan 16 05:53	11°♁21'30		
asc. node	1863 Jan 25 15:03	23°♁40'18		evening set	1864 Jan 19 12:05	10°♁19'51		
evening max el	1863 Jan 25 22:05	23°♁58'26	18°27'38	inferior conj	1864 Jan 25 04:06	4°♁30'26	3°22'41	
retrograde	1863 Feb 01 10:45	27°♁33'01		minimum elong	1864 Jan 25 01:54	4°♁37'23	3°22'19	
evening set	1863 Feb 04 10:44	26°♁43'16		min. Earth dist.	1864 Jan 26 16:39	2°♁35'07	0.65813 AU	
inferior conj	1863 Feb 10 08:59	21°♁10'46	3°40'16		1864 Jan 28 21:20	30°♁		
minimum elong	1863 Feb 10 07:50	21°♁14'08	3°40'11	morning rise	1864 Jan 30 14:47	28°♁17'33		
min. Earth dist.	1863 Feb 12 12:50	18°♁39'57	0.64371 AU	direct	1864 Feb 06 01:33	25°♁28'50		
morning rise	1863 Feb 16 03:32	15°♁02'32			1864 Feb 15 15:00	0°♁		
direct	1863 Feb 22 23:28	12°♁13'24		morning max el	1864 Feb 18 22:57	3°♁05'06	26°31'20	
desc. node	1863 Mar 05 00:18	16°♁50'25		desc. node	1864 Feb 19 21:23	4°♁02'41		
morning max el	1863 Mar 08 12:59	20°♁04'33	27°25'15					

	1864 Mar 10 08:12	0°♁		morning rise	1865 Jan 13 11:44	11°♁46'48	
morning set	1864 Mar 25 22:55	26°♁50'33		direct	1865 Jan 19 09:31	9°♁09'42	
	1864 Mar 27 14:42	0°♂		morning max el	1865 Jan 31 07:53	16°♁16'42	25°15'57
max. Earth dist.	1864 Mar 30 03:58	4°♂58'37	1.34781 AU	desc. node	1865 Feb 05 18:26	22°♁21'13	
					1865 Feb 11 17:02	0°≈	
superior conj	1864 Apr 03 17:52	14°♂13'48	0°-57'-4		1865 Mar 03 06:32	0°♁	
minimum elong	1864 Apr 03 20:45	14°♂28'35	0°56'34	morning set	1865 Mar 08 12:22	9°♁10'54	
asc. node	1864 Apr 09 11:27	26°♂10'32		max. Earth dist.	1865 Mar 12 05:54	16°♁01'51	1.36511 AU
evening rise	1864 Apr 11 09:56	0°♁12'17					
	1864 Apr 11 07:34	0°♁		superior conj	1865 Mar 18 07:53	27°♁45'26	-1°-23'-27
	1864 Apr 29 10:14	0°♁		minimum elong	1865 Mar 18 11:51	28°♁05'08	1°22'54
evening max el	1864 Apr 30 10:21	1°♁00'55	20°53'11		1865 Mar 19 10:57	0°♂	
retrograde	1864 May 11 22:49	6°♁37'20		evening rise	1865 Mar 26 14:15	14°♂25'53	
evening set	1864 May 14 03:00	6°♁26'06		asc. node	1865 Mar 27 08:28	15°♂57'34	
desc. node	1864 May 17 20:34	5°♁19'40			1865 Apr 03 18:35	0°♁	
inferior conj	1864 May 23 10:05	2°♁28'17	-1°-36'-37	evening max el	1865 Apr 12 21:59	12°♁30'25	19°42'04
minimum elong	1864 May 23 05:32	2°♁34'45	1°35'01	retrograde	1865 Apr 22 16:44	17°♁13'36	
min. Earth dist.	1864 May 24 05:37	2°♁00'30	0.54943 AU	evening set	1865 Apr 24 17:29	17°♁02'17	
	1864 May 27 23:57	30°♁		inferior conj	1865 May 03 11:05	12°♁59'43	0°22'01
morning rise	1864 Jun 01 07:21	28°♁24'02		minimum elong	1865 May 03 12:03	12°♁58'13	0°21'41
direct	1864 Jun 04 19:12	27°♁57'44		desc. node	1865 May 04 17:37	12°♁11'49	
	1864 Jun 12 04:27	0°♁		min. Earth dist.	1865 May 05 19:48	11°♁31'15	0.55678 AU
morning max el	1864 Jun 17 20:21	4°♁13'03	22°49'57	morning rise	1865 May 12 03:07	8°♁25'53	
	1864 Jul 05 11:35	0°♁		direct	1865 May 16 12:11	7°♁43'08	
asc. node	1864 Jul 06 10:43	1°♁53'05		morning max el	1865 May 30 11:25	14°♁42'56	24°31'55
morning set	1864 Jul 10 07:35	9°♁46'50			1865 Jun 11 12:46	0°♁	
				asc. node	1865 Jun 23 07:47	21°♁36'55	
superior conj	1864 Jul 17 11:24	25°♁03'08	1°33'32	morning set	1865 Jun 24 19:27	24°♁43'16	
minimum elong	1864 Jul 17 09:18	24°♁51'58	1°33'20		1865 Jun 27 06:46	0°♁	
	1864 Jul 19 19:35	0°♁					
max. Earth dist.	1864 Jul 20 07:54	1°♁04'19	1.33972 AU	superior conj	1865 Jul 01 20:12	9°♁54'43	1°19'08
evening rise	1864 Jul 25 06:38	11°♁07'01		minimum elong	1865 Jul 01 17:47	9°♁41'36	1°18'48
	1864 Aug 04 14:08	0°♁		max. Earth dist.	1865 Jul 03 11:47	13°♁29'02	1.32985 AU
desc. node	1864 Aug 13 19:56	14°♁30'58		evening rise	1865 Jul 09 03:49	25°♁23'35	
	1864 Aug 26 00:29	0°♁			1865 Jul 11 11:02	0°♁	
evening max el	1864 Aug 28 17:17	2°♁44'07	27°14'18		1865 Jul 29 01:51	0°♁	
retrograde	1864 Sep 11 03:02	10°♁02'52		desc. node	1865 Jul 31 16:57	3°♁39'46	
evening set	1864 Sep 18 02:29	7°♁19'46		evening max el	1865 Aug 11 03:36	15°♁48'04	27°25'44
min. Earth dist.	1864 Sep 21 21:59	3°♁43'00	0.64802 AU	retrograde	1865 Aug 24 20:45	23°♁05'49	
inferior conj	1864 Sep 24 02:55	1°♁17'33	-2°-41'-8	evening set	1865 Sep 01 01:27	20°♁30'42	
minimum elong	1864 Sep 24 07:09	1°♁05'53	2°39'37	min. Earth dist.	1865 Sep 04 16:19	17°♁26'07	0.63176 AU
	1864 Sep 25 07:30	30°♁		inferior conj	1865 Sep 07 09:43	14°♁44'27	-3°-35'-53
morning rise	1864 Sep 30 13:42	25°♁45'31		minimum elong	1865 Sep 07 14:56	14°♁31'30	3°34'24
asc. node	1864 Oct 02 09:53	25°♁12'59		morning rise	1865 Sep 14 06:52	9°♁29'59	
direct	1864 Oct 03 04:08	25°♁09'55		direct	1865 Sep 16 17:08	9°♁02'06	
morning max el	1864 Oct 09 16:15	28°♁38'21	18°02'56	asc. node	1865 Sep 19 06:58	9°♁34'11	
	1864 Oct 10 22:42	0°♁		morning max el	1865 Sep 23 08:25	12°♁27'59	17°51'44
morning set	1864 Oct 27 09:44	25°♁24'20			1865 Oct 05 06:16	0°♁	
	1864 Oct 30 03:48	0°♁		morning set	1865 Oct 09 16:42	7°♁45'23	
desc. node	1864 Nov 09 19:16	17°♁23'09					
				superior conj	1865 Oct 21 14:25	28°♁13'02	0°40'31
superior conj	1864 Nov 10 07:23	18°♁11'39	0°-3'-24	minimum elong	1865 Oct 21 18:14	28°♁28'58	0°39'59
minimum elong	1864 Nov 10 06:58	18°♁09'57	0°03'22		1865 Oct 22 16:10	0°♁	
behind sun begin	1864 Nov 09 20:32	17°♁28'14		desc. node	1865 Oct 27 16:17	8°♁10'23	
behind sun end	1864 Nov 10 17:23	18°♁51'38		max. Earth dist.	1865 Oct 28 01:54	8°♁49'06	1.43811 AU
max. Earth dist.	1864 Nov 14 09:35	24°♁41'44	1.44819 AU	evening rise	1865 Nov 06 02:07	23°♁00'06	
	1864 Nov 17 18:32	0°♁			1865 Nov 10 15:46	0°♁	
evening rise	1864 Nov 26 17:57	13°♁57'04		greatest brilliancy	1865 Nov 30 04:54	28°♁08'02	-0.5m
	1864 Dec 07 05:24	0°♁			1865 Dec 01 16:30	0°♁	
greatest brilliancy	1864 Dec 15 10:05	12°♁01'03	-0.6m	evening max el	1865 Dec 05 13:49	4°♁25'10	21°00'59
evening max el	1864 Dec 22 13:36	20°♁54'50	19°55'30	retrograde	1865 Dec 14 01:11	9°♁26'31	
asc. node	1864 Dec 29 09:08	25°♁17'08		asc. node	1865 Dec 16 06:11	8°♁59'20	
retrograde	1864 Dec 30 03:29	25°♁20'23		evening set	1865 Dec 18 00:52	7°♁56'25	
evening set	1865 Jan 02 17:28	24°♁05'22		inferior conj	1865 Dec 23 10:53	1°♁42'03	2°16'21
inferior conj	1865 Jan 08 05:32	18°♁01'53	2°53'52	minimum elong	1865 Dec 23 08:22	1°♁50'40	2°15'31
minimum elong	1865 Jan 08 02:55	18°♁10'38	2°53'12	min. Earth dist.	1865 Dec 23 20:59	1°♁07'18	0.67515 AU
min. Earth dist.	1865 Jan 09 04:06	16°♁46'38	0.66857 AU		1865 Dec 24 16:44	30°♁	

morning rise	1865 Dec 28 15:28	25°♁26'50		min. Earth dist.	1866 Dec 07 16:52	15°♁32'06	0.67808 AU
direct	1866 Jan 02 22:25	23°♁08'51		morning rise	1866 Dec 12 23:33	9°♁14'42	
morning max el	1866 Jan 13 16:14	29°♁33'07	23°49'19	direct	1866 Dec 17 15:22	7°♁19'21	
	1866 Jan 14 02:47	0°♁		morning max el	1866 Dec 27 03:09	12°♁55'17	22°21'21
desc. node	1866 Jan 23 15:29	11°♁27'00		greatest brilliancy	1866 Dec 31 17:06	18°♁02'55	-0.3m
	1866 Feb 05 13:18	0°♁			1867 Jan 09 17:44	0°♁	
morning set	1866 Feb 18 03:19	20°♁21'47		desc. node	1867 Jan 10 12:31	1°♁06'20	
max. Earth dist.	1866 Feb 22 01:01	27°♁09'30	1.38572 AU		1867 Jan 29 11:45	0°♁	
	1866 Feb 23 15:14	0°♁		morning set	1867 Jan 29 14:05	0°♁09'29	
				max. Earth dist.	1867 Feb 03 21:47	8°♁58'30	1.40720 AU
superior conj	1866 Mar 01 09:09	10°♁36'00	-1°-45'-57	superior conj	1867 Feb 11 17:01	22°♁33'32	-2°-1'-3
minimum elong	1866 Mar 01 13:21	10°♁55'48	1°45'33	minimum elong	1867 Feb 11 19:39	22°♁45'21	2°00'57
evening rise	1866 Mar 10 11:22	28°♁12'49			1867 Feb 15 19:13	0°♁	
	1866 Mar 11 09:21	0°♁		evening rise	1867 Feb 21 22:04	11°♁25'12	
asc. node	1866 Mar 14 05:30	5°♁27'27		asc. node	1867 Mar 01 02:31	24°♁34'07	
evening max el	1866 Mar 26 20:25	24°♁38'40	18°50'30		1867 Mar 04 09:48	0°♁	
retrograde	1866 Apr 04 02:23	28°♁39'13		evening max el	1867 Mar 10 02:42	7°♁18'14	18°19'05
evening set	1866 Apr 06 07:34	28°♁23'00		retrograde	1867 Mar 17 07:18	10°♁52'48	
inferior conj	1866 Apr 14 06:10	24°♁03'50	1°59'23	evening set	1867 Mar 19 18:02	10°♁28'56	
minimum elong	1866 Apr 14 10:02	23°♁56'49	1°58'14	inferior conj	1867 Mar 26 22:37	5°♁48'42	3°03'09
min. Earth dist.	1866 Apr 17 12:13	21°♁43'25	0.57215 AU	minimum elong	1867 Mar 27 02:09	5°♁41'11	3°02'25
desc. node	1866 Apr 21 14:39	19°♁16'12		min. Earth dist.	1867 Mar 30 08:55	2°♁55'29	0.59223 AU
morning rise	1866 Apr 22 08:11	18°♁56'13		morning rise	1867 Apr 03 06:29	0°♁13'23	
direct	1866 Apr 27 18:44	17°♁44'38			1867 Apr 03 16:22	30°♁	
morning max el	1866 May 12 02:29	25°♁13'12	26°04'32	desc. node	1867 Apr 08 11:40	28°♁29'06	
	1866 May 16 12:58	0°♁		direct	1867 Apr 09 14:14	28°♁25'49	
	1866 Jun 04 13:12	0°♁			1867 Apr 15 17:23	0°♁	
morning set	1866 Jun 09 06:45	9°♁37'19		morning max el	1867 Apr 23 22:37	6°♁10'59	27°12'52
asc. node	1866 Jun 10 04:48	11°♁34'06			1867 May 11 16:26	0°♁	
superior conj	1866 Jun 16 07:21	24°♁51'45	1°00'32	morning set	1867 May 24 15:50	24°♁23'46	
minimum elong	1866 Jun 16 05:07	24°♁39'30	1°00'08		1867 May 27 07:17	0°♁	
max. Earth dist.	1866 Jun 16 21:44	26°♁10'44	1.32397 AU	asc. node	1867 May 28 01:49	1°♁39'56	
	1866 Jun 18 15:39	0°♁		max. Earth dist.	1867 May 31 10:12	8°♁59'18	1.32192 AU
evening rise	1866 Jun 23 08:04	10°♁00'13		superior conj	1867 May 31 19:08	9°♁48'26	0°38'27
	1866 Jul 03 18:21	0°♁		minimum elong	1867 May 31 17:31	9°♁39'33	0°38'08
desc. node	1866 Jul 18 13:58	21°♁57'40		evening rise	1867 Jun 07 16:54	24°♁48'50	
evening max el	1866 Jul 24 09:47	28°♁16'01	27°04'49		1867 Jun 10 04:53	0°♁	
	1866 Jul 26 08:04	0°♁			1867 Jun 27 19:03	0°♁	
retrograde	1866 Aug 07 07:14	5°♁30'06		desc. node	1867 Jul 05 10:58	9°♁03'39	
evening set	1866 Aug 14 08:38	3°♁16'05		evening max el	1867 Jul 06 09:15	9°♁58'03	26°11'00
min. Earth dist.	1866 Aug 18 00:04	0°♁33'56	0.61266 AU	retrograde	1867 Jul 20 09:03	17°♁08'52	
	1866 Aug 18 16:03	30°♁		evening set	1867 Jul 26 19:18	15°♁27'53	
inferior conj	1866 Aug 21 03:43	27°♁49'04	-4°-22'-22	min. Earth dist.	1867 Jul 30 21:57	12°♁52'13	0.59209 AU
minimum elong	1866 Aug 21 08:40	27°♁38'12	4°21'26	inferior conj	1867 Aug 03 05:21	10°♁21'53	-4°-52'-20
morning rise	1866 Aug 28 11:40	22°♁55'24		minimum elong	1867 Aug 03 07:52	10°♁17'05	4°52'09
direct	1866 Aug 30 20:41	22°♁32'17		morning rise	1867 Aug 10 23:52	5°♁51'29	
asc. node	1866 Sep 06 04:01	25°♁21'07		direct	1867 Aug 13 10:25	5°♁31'03	
morning max el	1866 Sep 06 22:27	26°♁03'49	17°59'12	morning max el	1867 Aug 21 07:17	9°♁17'46	18°26'33
	1866 Sep 10 07:32	0°♁		asc. node	1867 Aug 24 01:03	12°♁19'16	
morning set	1866 Sep 22 17:56	20°♁58'43			1867 Sep 03 19:24	0°♁	
	1866 Sep 27 16:03	0°♁		morning set	1867 Sep 06 08:10	4°♁49'39	
superior conj	1866 Oct 03 00:32	9°♁33'59	1°13'20	superior conj	1867 Sep 15 10:00	22°♁04'10	1°34'05
minimum elong	1866 Oct 03 05:03	9°♁53'44	1°12'50	minimum elong	1867 Sep 15 13:08	22°♁18'37	1°33'50
max. Earth dist.	1866 Oct 10 13:57	22°♁27'21	1.42239 AU		1867 Sep 19 18:53	0°♁	
desc. node	1866 Oct 14 13:18	28°♁56'46		max. Earth dist.	1867 Sep 22 20:46	5°♁24'05	1.40299 AU
	1866 Oct 15 05:02	0°♁		evening rise	1867 Sep 27 07:08	12°♁54'44	
evening rise	1866 Oct 16 18:17	2°♁28'34		desc. node	1867 Oct 01 10:19	19°♁38'58	
	1866 Nov 04 02:58	0°♁			1867 Oct 08 01:55	0°♁	
greatest brilliancy	1866 Nov 13 15:19	12°♁38'02	-0.3m		1867 Oct 30 11:54	0°♁	
evening max el	1866 Nov 18 08:32	17°♁56'36	22°16'10	evening max el	1867 Oct 31 22:55	1°♁30'30	23°35'56
retrograde	1866 Nov 27 21:14	23°♁36'31		retrograde	1867 Nov 11 14:20	7°♁47'35	
evening set	1866 Dec 02 08:33	21°♁49'47		evening set	1867 Nov 16 14:55	5°♁43'29	
asc. node	1866 Dec 03 03:14	21°♁08'52		asc. node	1867 Nov 20 00:15	2°♁02'36	
inferior conj	1866 Dec 07 18:04	15°♁27'57	1°31'52	min. Earth dist.	1867 Nov 21 13:28	29°♁58'32	0.67756 AU
minimum elong	1866 Dec 07 16:08	15°♁34'39	1°31'07				

	1867 Nov 21 13:02	30°♁		min. Earth dist.	1868 Nov 04 08:29	14°♁24'22	0.67366 AU
inferior conj	1867 Nov 22 01:19	29°♁18'02	0°41'52	inferior conj	1868 Nov 05 06:56	13°♁10'18	0°-12'-22
minimum elong	1867 Nov 22 00:20	29°♁21'22	0°41'27	minimum elong	1868 Nov 05 07:14	13°♁09'17	0°12'15
morning rise	1867 Nov 27 09:55	23°♁08'53		transit begin	1868 Nov 05 05:25	13°♁15'16	
direct	1867 Dec 01 11:26	21°♁36'18		transit end	1868 Nov 05 09:03	13°♁03'18	
morning max el	1867 Dec 09 20:09	26°♁27'29	20°59'59	asc. node	1868 Nov 05 21:17	12°♁23'05	
	1867 Dec 13 01:14	0°♁		morning rise	1868 Nov 10 20:38	7°♁07'37	
greatest brilliancy	1867 Dec 15 08:42	2°♁51'02	-0.5m	direct	1868 Nov 14 09:29	5°♁55'36	
desc. node	1867 Dec 28 09:33	21°♁10'00		morning max el	1868 Nov 21 20:57	10°♁10'59	19°50'31
	1868 Jan 03 06:20	0°♁		greatest brilliancy	1868 Nov 29 11:13	19°♁32'12	-0.6m
morning set	1868 Jan 08 21:32	8°♁42'07			1868 Dec 06 16:20	0°♁	
max. Earth dist.	1868 Jan 17 01:19	21°♁43'09	1.42665 AU	desc. node	1868 Dec 14 06:36	11°♁31'26	
	1868 Jan 22 01:29	0°♁		morning set	1868 Dec 17 17:38	16°♁50'57	
					1868 Dec 26 04:05	0°♁	
superior conj	1868 Jan 24 02:09	3°♁25'23	-2°-4'-9	max. Earth dist.	1868 Dec 29 12:06	5°♁16'41	1.44146 AU
minimum elong	1868 Jan 24 00:42	3°♁19'17	2°04'09				
evening rise	1868 Feb 04 18:31	23°♁54'19		superior conj	1869 Jan 03 09:02	13°♁06'03	-1°-50'-24
	1868 Feb 08 04:17	0°♁		minimum elong	1869 Jan 03 02:13	12°♁38'26	1°49'58
asc. node	1868 Feb 15 23:33	13°♁09'33			1869 Jan 13 14:03	0°♁	
evening max el	1868 Feb 21 13:34	20°♁19'40	18°07'26	evening rise	1869 Jan 16 20:26	5°♁32'37	
retrograde	1868 Feb 28 04:27	23°♁43'58			1869 Feb 01 00:22	0°♁	
evening set	1868 Mar 01 20:13	23°♁10'59		asc. node	1869 Feb 01 20:35	1°♁04'44	
inferior conj	1868 Mar 08 10:14	18°♁09'29	3°35'40	evening max el	1869 Feb 04 02:09	3°♁36'04	18°14'57
minimum elong	1868 Mar 08 11:54	18°♁05'22	3°35'31	retrograde	1869 Feb 10 13:13	7°♁03'35	
min. Earth dist.	1868 Mar 11 12:51	15°♁07'59	0.61362 AU	evening set	1869 Feb 13 10:00	6°♁20'22	
morning rise	1868 Mar 15 00:48	12°♁15'47		inferior conj	1869 Feb 19 13:06	0°♁58'53	3°43'54
direct	1868 Mar 21 20:42	9°♁54'43		minimum elong	1869 Feb 19 12:50	0°♁59'36	3°43'55
desc. node	1868 Mar 25 08:42	10°♁28'49			1869 Feb 20 10:21	30°♁	
morning max el	1868 Apr 05 01:10	17°♁48'58	27°46'42	min. Earth dist.	1869 Feb 22 02:00	28°♁11'43	0.63360 AU
	1868 Apr 15 05:29	0°♁		morning rise	1869 Feb 25 13:48	24°♁54'27	
	1868 May 03 09:05	0°♁		direct	1869 Mar 04 12:09	22°♁11'02	
morning set	1868 May 07 20:45	8°♁54'54		desc. node	1869 Mar 12 05:45	24°♁57'24	
max. Earth dist.	1868 May 13 21:03	21°♁39'24	1.32367 AU		1869 Mar 18 05:55	0°♁	
asc. node	1868 May 13 22:50	21°♁49'05		morning max el	1869 Mar 18 08:36	0°♁06'40	27°43'02
					1869 Apr 09 05:27	0°♁	
superior conj	1868 May 15 05:47	24°♁37'50	0°13'36	morning set	1869 Apr 21 19:13	23°♁03'23	
minimum elong	1868 May 15 05:10	24°♁34'25	0°13'28		1869 Apr 25 04:56	0°♁	
behind sun begin	1868 May 15 02:27	24°♁19'36		max. Earth dist.	1869 Apr 27 02:17	3°♁57'50	1.32951 AU
behind sun end	1868 May 15 07:52	24°♁49'14					
	1868 May 17 16:39	0°♁		superior conj	1869 Apr 29 13:36	9°♁14'24	0°-13'-16
evening rise	1868 May 22 04:08	9°♁40'58		minimum elong	1869 Apr 29 14:15	9°♁17'53	0°13'09
	1868 Jun 01 15:28	0°♁		behind sun begin	1869 Apr 29 11:15	9°♁01'44	
evening max el	1868 Jun 17 01:39	20°♁54'35	24°50'25	behind sun end	1869 Apr 29 17:15	9°♁34'03	
desc. node	1868 Jun 21 07:58	24°♁27'57		asc. node	1869 Apr 30 19:53	11°♁57'37	
retrograde	1868 Jul 01 00:40	27°♁59'24		evening rise	1869 May 06 15:56	24°♁30'33	
evening set	1868 Jul 06 06:16	26°♁57'07			1869 May 09 07:19	0°♁	
min. Earth dist.	1868 Jul 11 13:00	24°♁09'06	0.57246 AU		1869 May 28 05:34	0°♁	
inferior conj	1868 Jul 14 11:29	22°♁13'04	-4°-53'-27	evening max el	1869 May 29 15:27	1°♁25'39	23°15'44
minimum elong	1868 Jul 14 09:09	22°♁16'56	4°53'20	desc. node	1869 Jun 08 04:59	7°♁35'07	
morning rise	1868 Jul 22 15:49	18°♁04'55		retrograde	1869 Jun 12 04:03	8°♁10'51	
direct	1868 Jul 25 05:58	17°♁45'52		evening set	1869 Jun 15 21:38	7°♁40'19	
morning max el	1868 Aug 03 07:49	22°♁00'08	19°14'56	min. Earth dist.	1869 Jun 23 01:13	4°♁25'13	0.55718 AU
	1868 Aug 09 18:36	0°♁		inferior conj	1869 Jun 24 21:51	3°♁19'39	-4°-11'-50
asc. node	1868 Aug 09 22:05	0°♁13'16		minimum elong	1869 Jun 24 14:46	3°♁30'06	4°10'25
morning set	1868 Aug 20 07:28	19°♁07'01			1869 Jul 01 11:57	30°♁	
	1868 Aug 25 18:29	0°♁		morning rise	1869 Jul 03 11:03	29°♁25'47	
				direct	1869 Jul 06 06:21	29°♁06'45	
superior conj	1868 Aug 28 13:06	5°♁26'53	1°44'09		1869 Jul 10 19:20	0°♁	
minimum elong	1868 Aug 28 14:18	5°♁32'43	1°44'06	morning max el	1869 Jul 16 21:37	4°♁02'17	20°24'29
max. Earth dist.	1868 Sep 04 00:15	17°♁37'59	1.38242 AU	asc. node	1869 Jul 27 19:08	18°♁50'28	
evening rise	1868 Sep 07 20:08	24°♁28'16			1869 Aug 02 16:50	0°♁	
	1868 Sep 11 01:20	0°♁		morning set	1869 Aug 04 12:57	3°♁43'15	
desc. node	1868 Sep 17 07:21	10°♁12'41					
	1868 Sep 30 18:57	0°♁		superior conj	1869 Aug 12 04:53	19°♁27'51	1°45'24
evening max el	1868 Oct 13 11:04	15°♁08'02	24°54'01	minimum elong	1869 Aug 12 04:23	19°♁25'21	1°45'23
retrograde	1868 Oct 25 03:34	21°♁55'41		max. Earth dist.	1869 Aug 17 06:19	29°♁29'22	1.36327 AU
evening set	1868 Oct 30 18:22	19°♁35'05			1869 Aug 17 12:40	0°♁	

evening rise	1869 Aug 21 06:36	7°♎03'20			1870 Aug 09 12:55	0°♎	
	1869 Sep 03 19:53	0°♎		desc. node	1870 Aug 22 01:22	20°♎33'00	
desc. node	1869 Sep 04 04:21	0°♎32'45			1870 Aug 28 18:25	0°♎	
evening max el	1869 Sep 25 23:02	28°♎47'32	26°02'58	evening max el	1870 Sep 08 11:27	12°♎23'01	26°54'58
	1869 Sep 27 05:49	0°♎		retrograde	1870 Sep 21 15:02	19°♎39'14	
retrograde	1869 Oct 08 12:02	5°♎54'52		evening set	1870 Sep 28 08:44	16°♎57'15	
evening set	1869 Oct 14 17:01	3°♎20'46		min. Earth dist.	1870 Oct 02 08:07	12°♎59'28	0.65580 AU
	1869 Oct 17 23:05	30°♎		inferior conj	1870 Oct 04 05:39	10°♎47'38	-2°-7'-52
min. Earth dist.	1869 Oct 18 23:30	28°♎45'59	0.66644 AU	minimum elong	1870 Oct 04 09:03	10°♎37'45	2°06'33
inferior conj	1869 Oct 20 09:03	27°♎01'15	-1°-9'-33	morning rise	1870 Oct 10 10:51	5°♎06'37	
minimum elong	1869 Oct 20 10:52	26°♎55'33	1°08'47	asc. node	1870 Oct 10 15:25	5°♎01'05	
asc. node	1869 Oct 23 18:22	23°♎06'29		direct	1870 Oct 13 04:59	4°♎24'54	
morning rise	1869 Oct 26 05:41	21°♎07'48		morning max el	1870 Oct 19 18:15	7°♎58'24	18°17'18
direct	1869 Oct 29 07:59	20°♎12'51			1870 Nov 03 22:42	0°♎	
morning max el	1869 Nov 05 04:56	24°♎02'34	18°55'47	morning set	1870 Nov 07 17:21	6°♎09'26	
	1869 Nov 10 03:58	0°♎		desc. node	1870 Nov 18 00:42	22°♎46'27	
morning set	1869 Nov 27 03:26	25°♎47'15			1870 Nov 22 14:06	0°♎	
	1869 Nov 29 19:50	0°♎		superior conj	1870 Nov 22 19:00	0°♎19'23	0°-31'-30
desc. node	1869 Dec 01 03:39	2°♎04'49		minimum elong	1870 Nov 22 14:55	0°♎03'17	0°30'59
max. Earth dist.	1869 Dec 12 04:24	19°♎23'26	1.44988 AU	max. Earth dist.	1870 Nov 24 23:33	3°♎46'15	1.45102 AU
				evening rise	1870 Dec 09 04:17	25°♎59'10	
superior conj	1869 Dec 13 17:17	21°♎48'35	-1°-17'-44		1870 Dec 11 17:56	0°♎	
minimum elong	1869 Dec 13 08:39	21°♎14'34	1°16'47	greatest brilliancy	1870 Dec 24 02:23	18°♎59'41	-0.7m
	1869 Dec 18 21:33	0°♎			1871 Jan 01 10:53	0°♎	
evening rise	1869 Dec 28 23:55	16°♎13'20		evening max el	1871 Jan 01 22:08	0°♎29'32	19°23'48
	1870 Jan 06 11:52	0°♎		asc. node	1871 Jan 06 14:42	4°♎03'22	
evening max el	1870 Jan 18 13:46	17°♎00'51	18°40'51	retrograde	1871 Jan 09 01:53	4°♎36'34	
asc. node	1870 Jan 19 17:39	18°♎07'22		evening set	1871 Jan 12 11:16	3°♎29'17	
retrograde	1870 Jan 25 05:28	20°♎43'04			1871 Jan 16 02:49	30°♎	
evening set	1870 Jan 28 07:56	19°♎48'30		inferior conj	1871 Jan 18 01:22	27°♎33'37	3°11'37
inferior conj	1870 Feb 03 03:15	14°♎08'48	3°34'20	minimum elong	1871 Jan 17 22:55	27°♎41'33	3°11'06
minimum elong	1870 Feb 03 01:34	14°♎13'52	3°34'09	min. Earth dist.	1871 Jan 19 07:45	25°♎55'13	0.66317 AU
min. Earth dist.	1870 Feb 05 00:35	11°♎51'54	0.65039 AU	morning rise	1871 Jan 23 09:47	21°♎19'48	
morning rise	1870 Feb 08 18:01	7°♎58'18		direct	1871 Jan 29 15:29	18°♎34'53	
direct	1870 Feb 15 10:50	5°♎07'24		morning max el	1871 Feb 11 03:32	25°♎59'35	26°01'10
desc. node	1870 Feb 27 02:49	11°♎18'58		desc. node	1871 Feb 13 23:53	29°♎01'58	
morning max el	1870 Feb 28 18:07	12°♎54'00	27°05'23		1871 Feb 14 20:17	0°♎	
	1870 Mar 14 12:36	0°♎			1871 Mar 08 01:52	0°♎	
	1870 Apr 01 19:38	0°♎		morning set	1871 Mar 19 07:45	19°♎31'49	
morning set	1870 Apr 05 08:14	6°♎39'38		max. Earth dist.	1871 Mar 23 06:36	27°♎00'28	1.35472 AU
max. Earth dist.	1870 Apr 09 22:08	15°♎44'28	1.33981 AU		1871 Mar 24 19:28	0°♎	
				superior conj	1871 Mar 28 12:11	7°♎22'49	-1°-8'-35
superior conj	1870 Apr 13 16:34	23°♎31'50	0°-41'-7	minimum elong	1871 Mar 28 15:35	7°♎40'05	1°08'01
minimum elong	1870 Apr 13 18:38	23°♎42'42	0°40'43	asc. node	1871 Apr 04 14:00	21°♎56'06	
	1870 Apr 16 18:04	0°♎		evening rise	1871 Apr 05 09:43	23°♎37'16	
asc. node	1870 Apr 17 16:57	2°♎01'24			1871 Apr 08 13:41	0°♎	
evening rise	1870 Apr 21 02:27	9°♎11'24		evening max el	1871 Apr 23 14:44	23°♎08'43	20°20'35
	1870 May 02 03:06	0°♎		retrograde	1871 May 04 09:09	28°♎21'43	
evening max el	1870 May 11 09:58	12°♎02'11	21°41'58	evening set	1871 May 06 10:36	28°♎11'04	
retrograde	1870 May 23 19:50	18°♎07'24		desc. node	1871 May 12 23:02	25°♎41'33	
evening set	1870 May 26 08:57	17°♎52'49		inferior conj	1871 May 15 13:08	24°♎13'03	0°-45'-15
desc. node	1870 May 26 01:59	17°♎55'55		minimum elong	1871 May 15 11:01	24°♎16'10	0°44'29
min. Earth dist.	1870 Jun 04 13:10	13°♎58'08	0.54954 AU	min. Earth dist.	1871 May 17 01:58	23°♎19'11	0.55144 AU
inferior conj	1870 Jun 04 18:09	13°♎51'10	-2°-42'-57	morning rise	1871 May 24 09:27	19°♎58'09	
minimum elong	1870 Jun 04 11:03	14°♎01'06	2°40'42	direct	1871 May 28 05:33	19°♎26'18	
morning rise	1870 Jun 13 14:05	9°♎56'22		morning max el	1871 Jun 10 17:34	26°♎01'30	23°33'36
direct	1870 Jun 16 18:09	9°♎34'18			1871 Jun 14 12:04	0°♎	
morning max el	1870 Jun 28 23:59	15°♎20'17	21°53'02	asc. node	1871 Jul 01 13:16	27°♎33'47	
	1870 Jul 10 04:51	0°♎			1871 Jul 02 17:57	0°♎	
asc. node	1870 Jul 14 16:13	8°♎00'22		morning set	1871 Jul 04 09:53	3°♎27'49	
morning set	1870 Jul 19 22:25	18°♎32'26					
	1870 Jul 25 08:45	0°♎		superior conj	1871 Jul 11 12:00	18°♎40'55	1°27'59
superior conj	1870 Jul 27 05:31	3°♎55'56	1°39'34	minimum elong	1871 Jul 11 09:42	18°♎28'34	1°27'44
minimum elong	1870 Jul 27 03:51	3°♎47'09	1°39'27	max. Earth dist.	1871 Jul 13 19:48	23°♎39'00	1.33502 AU
max. Earth dist.	1870 Jul 30 20:25	11°♎25'13	1.34722 AU		1871 Jul 16 20:45	0°♎	
evening rise	1870 Aug 04 09:58	20°♎27'56					

evening rise	1871 Jul 19 01:40	4°♊28'21		superior conj	1872 Jun 24 22:01	3°♋35'39	1°11'43
	1871 Aug 02 06:02	0°♌		minimum elong	1872 Jun 24 19:37	3°♋22'35	1°11'20
desc. node	1871 Aug 08 22:22	10°♌03'53		max. Earth dist.	1872 Jun 26 02:44	6°♋12'15	1.32685 AU
evening max el	1871 Aug 21 23:05	25°♌41'55	27°22'54	evening rise	1872 Jul 02 02:11	18°♋54'18	
	1871 Aug 27 05:12	0°♍			1872 Jul 07 17:03	0°♌	
retrograde	1871 Sep 04 12:04	2°♍59'54		desc. node	1872 Jul 25 19:22	28°♌53'05	
evening set	1871 Sep 11 14:45	0°♍18'46			1872 Jul 26 16:16	0°♌	
	1871 Sep 12 00:27	30°♌		evening max el	1872 Aug 03 07:44	8°♌31'03	27°20'49
min. Earth dist.	1871 Sep 15 07:57	26°♌56'36	0.64157 AU	retrograde	1872 Aug 17 02:45	15°♌47'32	
inferior conj	1871 Sep 17 18:15	24°♌23'13	-3°-4'-57	evening set	1872 Aug 24 07:30	13°♌19'21	
minimum elong	1871 Sep 17 23:00	24°♌10'40	3°03'23	min. Earth dist.	1872 Aug 27 21:33	10°♌26'16	0.62395 AU
morning rise	1871 Sep 24 09:20	18°♌58'11		inferior conj	1872 Aug 30 19:57	7°♌41'08	-3°-57'-1
direct	1871 Sep 26 21:47	18°♌26'07		minimum elong	1872 Aug 31 01:16	7°♌28'37	3°55'43
asc. node	1871 Sep 27 12:29	18°♌28'03		morning rise	1872 Sep 06 21:44	2°♌35'28	
morning max el	1871 Oct 03 10:12	21°♌52'07	17°55'58	direct	1872 Sep 09 07:07	2°♌09'57	
	1871 Oct 09 16:38	0°♍		asc. node	1872 Sep 13 09:31	3°♌27'02	
morning set	1871 Oct 20 10:58	17°♍52'14		morning max el	1872 Sep 16 01:52	5°♌36'54	17°52'38
	1871 Oct 27 15:09	0°♎			1872 Oct 01 18:03	0°♍	
				morning set	1872 Oct 02 02:22	0°♍37'13	
superior conj	1871 Nov 02 11:27	9°♎37'16	0°16'21	superior conj	1872 Oct 13 06:10	20°♍13'14	0°55'56
minimum elong	1871 Nov 02 13:17	9°♎44'43	0°16'05	minimum elong	1872 Oct 13 10:39	20°♍32'18	0°55'22
behind sun begin	1871 Nov 02 12:17	9°♎40'36			1872 Oct 19 02:45	0°♎	
behind sun end	1871 Nov 02 14:18	9°♎48'50		max. Earth dist.	1872 Oct 20 08:51	2°♎02'46	1.43198 AU
desc. node	1871 Nov 04 21:43	13°♎32'34		desc. node	1872 Oct 21 18:43	4°♎19'51	
max. Earth dist.	1871 Nov 07 18:10	18°♎05'59	1.44476 AU	evening rise	1872 Oct 28 01:15	14°♎16'03	
	1871 Nov 15 08:09	0°♏			1872 Nov 07 09:32	0°♏	
evening rise	1871 Nov 18 15:49	5°♏07'49		greatest brilliancy	1872 Nov 23 00:27	21°♏48'57	-0.4m
	1871 Dec 05 05:04	0°♐		evening max el	1872 Nov 27 23:10	27°♏29'36	21°32'01
greatest brilliancy	1871 Dec 09 19:08	6°♐24'27	-0.5m		1872 Nov 30 16:18	0°♐	
evening max el	1871 Dec 16 01:31	13°♐59'25	20°21'52	retrograde	1872 Dec 06 21:06	2°♐47'48	
retrograde	1871 Dec 23 23:48	18°♐39'26		asc. node	1872 Dec 10 08:45	1°♐40'42	
asc. node	1871 Dec 24 11:43	18°♐38'03		evening set	1872 Dec 11 01:28	1°♐10'42	
evening set	1871 Dec 27 17:45	17°♐17'59			1872 Dec 12 08:54	30°♏	
inferior conj	1872 Jan 02 04:43	11°♐09'17	2°38'54	inferior conj	1872 Dec 16 11:04	24°♏52'25	1°58'15
minimum elong	1872 Jan 02 02:05	11°♐18'12	2°38'07	minimum elong	1872 Dec 16 08:45	25°♏00'26	1°57'25
min. Earth dist.	1872 Jan 02 21:43	10°♐11'42	0.67186 AU	min. Earth dist.	1872 Dec 16 16:11	24°♏34'41	0.67678 AU
morning rise	1872 Jan 07 09:55	4°♐54'03		morning rise	1872 Dec 21 15:44	18°♏37'40	
direct	1872 Jan 13 01:27	2°♐24'45		direct	1872 Dec 26 16:05	16°♏29'17	
morning max el	1872 Jan 24 12:09	9°♐14'23	24°39'54	morning max el	1873 Jan 05 21:19	22°♏33'42	23°11'33
desc. node	1872 Jan 31 20:56	17°♐42'48		greatest brilliancy	1873 Jan 10 22:13	28°♏12'21	-0.3m
	1872 Feb 09 21:27	0°♑			1873 Jan 12 09:05	0°♐	
	1872 Feb 28 17:03	0°♑		desc. node	1873 Jan 17 17:57	7°♐04'19	
morning set	1872 Feb 29 12:28	1°♑25'08			1873 Feb 02 06:00	0°♑	
max. Earth dist.	1872 Mar 04 05:20	8°♑03'58	1.37362 AU	morning set	1873 Feb 09 15:58	12°♑02'07	
				max. Earth dist.	1873 Feb 14 00:08	19°♑25'32	1.39489 AU
superior conj	1872 Mar 10 21:18	20°♑38'43	-1°-33'-40		1873 Feb 19 22:48	0°♑	
minimum elong	1872 Mar 11 01:31	20°♑59'14	1°33'08	superior conj	1873 Feb 21 15:44	3°♑07'58	-1°-53'-30
	1872 Mar 15 15:04	0°♒		minimum elong	1873 Feb 21 19:32	3°♑25'34	1°53'14
evening rise	1872 Mar 19 11:22	7°♒41'16		evening rise	1873 Mar 03 04:28	21°♑14'38	
asc. node	1872 Mar 21 11:02	11°♒37'07			1873 Mar 07 19:24	0°♒	
	1872 Apr 01 02:30	0°♓		asc. node	1873 Mar 08 08:03	0°♒58'10	
evening max el	1872 Apr 05 07:11	4°♓55'19	19°17'35	evening max el	1873 Mar 19 09:17	17°♒17'53	18°34'40
retrograde	1872 Apr 14 09:15	9°♓19'02		retrograde	1873 Mar 27 03:14	21°♒05'35	
evening set	1872 Apr 16 11:22	9°♓06'06		evening set	1873 Mar 29 10:37	20°♒46'31	
inferior conj	1872 Apr 24 21:02	4°♓57'00	1°07'08	inferior conj	1873 Apr 06 01:15	16°♒18'48	2°30'35
minimum elong	1872 Apr 24 23:40	4°♓52'36	1°06'14	minimum elong	1873 Apr 06 05:17	16°♒10'57	2°29'32
min. Earth dist.	1872 Apr 27 16:47	3°♓04'58	0.56248 AU	min. Earth dist.	1873 Apr 09 11:00	13°♒41'20	0.58029 AU
desc. node	1872 Apr 28 20:04	2°♓22'21		morning rise	1873 Apr 13 19:39	10°♒57'51	
morning rise	1872 May 03 07:58	0°♓08'34		desc. node	1873 Apr 15 17:06	10°♒11'08	
	1872 May 03 17:51	30°♒		direct	1873 Apr 19 15:59	9°♒31'13	
direct	1872 May 08 03:35	29°♒15'17		morning max el	1873 May 04 01:05	17°♒08'58	26°37'17
	1872 May 12 13:09	0°♓			1873 May 14 15:24	0°♓	
morning max el	1872 May 22 08:05	6°♓28'53	25°13'31		1873 May 31 18:35	0°♓	
	1872 Jun 08 10:58	0°♔		morning set	1873 Jun 02 08:15	3°♓15'38	
asc. node	1872 Jun 17 10:18	17°♔24'13		asc. node	1873 Jun 04 07:20	7°♓25'43	
morning set	1872 Jun 17 21:42	18°♔24'11					
	1872 Jun 23 06:35	0°♕					

superior conj	1873 Jun 09 09:38	18°♃33'16	0°51'33			1874 May 23 07:15	0°♃		
minimum elong	1873 Jun 09 07:37	18°♃22'10	0°51'10		max. Earth dist.	1874 May 24 02:04	1°♃42'59	1.32218 AU	
max. Earth dist.	1873 Jun 09 13:59	18°♃57'12	1.32259 AU						
	1873 Jun 14 15:43	0°♄							
evening rise	1873 Jun 16 08:38	3°♄36'38			superior conj	1874 May 24 21:10	3°♃27'44	0°28'13	
	1873 Jun 30 12:44	0°♃			minimum elong	1874 May 24 19:55	3°♃20'58	0°27'56	
desc. node	1873 Jul 12 16:22	16°♃43'27			evening rise	1874 May 31 18:43	18°♃27'41		
evening max el	1873 Jul 16 11:04	20°♃39'26	26°45'44			1874 Jun 06 11:12	0°♄		
retrograde	1873 Jul 30 10:06	27°♃53'08			evening max el	1874 Jun 28 07:31	2°♃01'42	25°39'28	
evening set	1873 Aug 06 06:34	25°♃51'47			desc. node	1874 Jun 29 13:24	3°♃10'28		
min. Earth dist.	1873 Aug 10 00:57	23°♃14'36	0.60389 AU		retrograde	1874 Jul 12 08:00	9°♃10'39		
inferior conj	1873 Aug 13 07:23	20°♃33'13	-4°-37'-49		evening set	1874 Jul 18 07:16	7°♃46'30		
minimum elong	1873 Aug 13 11:38	20°♃24'27	4°37'12		min. Earth dist.	1874 Jul 22 19:47	5°♃07'26	0.58337 AU	
morning rise	1873 Aug 20 19:57	15°♃49'33			inferior conj	1874 Jul 26 01:03	2°♃49'36	-4°-57'-16	
direct	1873 Aug 23 05:08	15°♃27'57			minimum elong	1874 Jul 26 01:44	2°♃48'21	4°57'16	
morning max el	1873 Aug 30 14:08	19°♃04'53	18°08'24			1874 Jul 30 08:18	30°♄		
asc. node	1873 Aug 31 06:33	19°♃46'11			morning rise	1874 Aug 02 23:47	28°♄28'46		
	1873 Sep 07 14:08	0°♅			direct	1874 Aug 05 11:33	28°♄09'06		
morning set	1873 Sep 15 09:41	14°♅08'03				1874 Aug 11 04:34	0°♃		
	1873 Sep 23 22:59	0°♄			morning max el	1874 Aug 13 19:45	2°♃06'28	18°44'31	
					asc. node	1874 Aug 18 03:36	7°♃09'53		
superior conj	1873 Sep 25 02:54	2°♄05'50	1°23'33		morning set	1874 Aug 30 04:12	28°♃11'26		
minimum elong	1873 Sep 25 06:58	2°♄24'04	1°23'09			1874 Aug 31 02:27	0°♅		
max. Earth dist.	1873 Oct 02 18:01	15°♄22'15	1.41436 AU						
evening rise	1873 Oct 08 01:12	24°♄06'41			superior conj	1874 Sep 07 20:30	15°♅00'00	1°39'33	
desc. node	1873 Oct 08 15:44	25°♄05'13			minimum elong	1874 Sep 07 22:49	15°♅10'56	1°39'24	
	1873 Oct 11 17:55	0°♆			max. Earth dist.	1874 Sep 14 22:52	27°♅59'30	1.39420 AU	
	1873 Nov 01 08:39	0°♅				1874 Sep 16 02:18	0°♄		
greatest brilliancy	1873 Nov 05 13:17	5°♅19'02	-0.3m		evening rise	1874 Sep 19 00:25	5°♄01'53		
evening max el	1873 Nov 10 15:48	11°♅02'18	22°49'56		desc. node	1874 Sep 25 12:45	15°♄44'29		
retrograde	1873 Nov 20 16:09	16°♅59'06				1874 Oct 04 21:06	0°♆		
evening set	1873 Nov 25 08:48	15°♅05'13			evening max el	1874 Oct 24 05:08	24°♆38'29	24°09'54	
asc. node	1873 Nov 27 05:46	13°♅15'20				1874 Oct 31 01:49	0°♅		
min. Earth dist.	1873 Nov 30 12:48	9°♅01'01	0.67821 AU		retrograde	1874 Nov 04 07:38	1°♅09'18		
inferior conj	1873 Nov 30 18:32	8°♅41'15	1°11'17			1874 Nov 08 04:18	30°♆		
minimum elong	1873 Nov 30 16:57	8°♅46'41	1°10'40		evening set	1874 Nov 09 14:07	28°♆58'14		
morning rise	1873 Dec 06 01:03	2°♅29'11			asc. node	1874 Nov 14 02:49	23°♆48'30		
direct	1873 Dec 10 10:37	0°♅43'34			min. Earth dist.	1874 Nov 14 09:04	23°♆27'33	0.67630 AU	
morning max el	1873 Dec 19 10:25	6°♅00'08	21°45'31		inferior conj	1874 Nov 15 01:19	22°♆32'45	0°19'19	
greatest brilliancy	1873 Dec 24 06:35	11°♅28'41	-0.4m		minimum elong	1874 Nov 15 00:51	22°♆34'19	0°19'08	
desc. node	1874 Jan 04 14:59	26°♅55'29			morning rise	1874 Nov 20 11:50	16°♆25'53		
	1874 Jan 06 17:33	0°♇			direct	1874 Nov 24 07:49	15°♆02'10		
morning set	1874 Jan 20 14:19	21°♇15'21			morning max el	1874 Dec 02 06:32	19°♆36'43	20°28'45	
	1874 Jan 25 23:40	0°♈			greatest brilliancy	1874 Dec 08 12:47	27°♆01'50	-0.5m	
max. Earth dist.	1874 Jan 26 22:52	1°♈36'01	1.41590 AU			1874 Dec 10 17:40	0°♅		
					desc. node	1874 Dec 22 12:02	17°♅07'35		
superior conj	1874 Feb 03 14:35	14°♈39'30	-2°-4'-8		morning set	1874 Dec 30 14:01	29°♅29'00		
minimum elong	1874 Feb 03 15:49	14°♈44'51	2°04'08			1874 Dec 30 22:01	0°♇		
	1874 Feb 12 03:20	0°♉			max. Earth dist.	1875 Jan 09 05:40	14°♇43'33	1.43369 AU	
evening rise	1874 Feb 14 09:38	4°♉09'47							
asc. node	1874 Feb 23 05:05	19°♉52'50			superior conj	1875 Jan 15 12:50	25°♇01'53	-2°00'-38	
	1874 Mar 02 14:35	0°♊			minimum elong	1875 Jan 15 09:03	24°♇46'12	2°00'30	
evening max el	1874 Mar 02 17:59	0°♊08'23	18°11'45			1875 Jan 18 12:00	0°♈		
retrograde	1874 Mar 09 15:20	3°♊36'27			evening rise	1875 Jan 27 22:43	16°♈18'21		
evening set	1874 Mar 12 04:18	3°♊08'51				1875 Feb 04 20:09	0°♉		
	1874 Mar 17 04:33	30°♉			asc. node	1875 Feb 10 02:07	8°♉12'51		
inferior conj	1874 Mar 19 02:17	28°♉19'48	3°20'18		evening max el	1875 Feb 14 06:02	13°♉17'54	18°08'20	
minimum elong	1874 Mar 19 05:06	28°♉13'25	3°19'52		retrograde	1875 Feb 20 17:57	16°♉41'39		
min. Earth dist.	1874 Mar 22 10:36	25°♉19'46	0.60143 AU		evening set	1875 Feb 23 11:57	16°♉04'16		
morning rise	1874 Mar 26 02:29	22°♉35'40			inferior conj	1875 Mar 01 20:53	10°♉54'02	3°41'40	
direct	1874 Apr 01 16:52	20°♉32'31			minimum elong	1875 Mar 01 21:42	10°♉51'55	3°41'38	
desc. node	1874 Apr 02 14:09	20°♉34'41			min. Earth dist.	1875 Mar 04 18:06	7°♉56'26	0.62249 AU	
morning max el	1874 Apr 15 23:48	28°♉22'37	27°31'38		morning rise	1875 Mar 08 05:08	4°♉55'21		
	1874 Apr 17 13:53	0°♊			direct	1875 Mar 15 03:21	2°♉23'10		
	1874 May 08 09:10	0°♋			desc. node	1875 Mar 20 11:12	3°♉42'20		
morning set	1874 May 17 15:47	17°♋56'14			morning max el	1875 Mar 29 04:33	10°♉18'07	27°49'37	
asc. node	1874 May 22 04:22	27°♋33'34				1875 Apr 13 13:42	0°♊		

	1875 Apr 30 14:40	0°♄		direct	1876 Feb 25 21:44	14°♁57'47	
morning set	1875 May 01 18:20	2°♄19'22		desc. node	1876 Mar 06 08:16	19°♁03'35	
max. Earth dist.	1875 May 07 11:09	14°♄16'37	1.32568 AU	morning max el	1876 Mar 10 13:20	22°♁50'30	27°30'58
					1876 Mar 16 21:46	0°♁	
superior conj	1875 May 09 06:54	18°♄13'20	0°02'26		1876 Apr 05 19:33	0°♁	
minimum elong	1875 May 09 06:47	18°♄12'41	0°02'23	morning set	1876 Apr 14 13:13	16°♁15'49	
behind sun begin	1875 May 09 01:40	17°♄44'55		max. Earth dist.	1876 Apr 19 13:07	26°♁24'16	1.33338 AU
behind sun end	1875 May 09 11:54	18°♄40'29			1876 Apr 21 06:14	0°♄	
asc. node	1875 May 09 01:25	17°♄43'31					
	1875 May 14 16:56	0°♁		superior conj	1876 Apr 22 12:54	2°♄42'45	0°-25'-1
evening rise	1875 May 16 06:30	3°♁20'37		minimum elong	1876 Apr 22 14:09	2°♄49'23	0°24'46
	1875 May 30 16:45	0°♁		asc. node	1876 Apr 24 22:28	7°♄50'49	
evening max el	1875 Jun 09 22:18	12°♁45'33	24°10'58	evening rise	1876 Apr 29 18:00	18°♄07'49	
desc. node	1875 Jun 16 10:25	17°♁42'02			1876 May 05 15:16	0°♁	
retrograde	1875 Jun 23 18:07	19°♁43'25		evening max el	1876 May 21 13:00	23°♁14'41	22°34'49
evening set	1875 Jun 28 08:45	18°♁56'16		desc. node	1876 Jun 02 07:28	29°♁41'25	
min. Earth dist.	1875 Jul 04 09:07	15°♁58'26	0.56527 AU	retrograde	1876 Jun 03 16:04	29°♁45'37	
inferior conj	1875 Jul 06 22:38	14°♁22'38	-4°-41'-42	evening set	1876 Jun 06 20:02	29°♁23'34	
minimum elong	1875 Jul 06 18:00	14°♁29'54	4°41'09	min. Earth dist.	1876 Jun 14 20:40	25°♁53'29	0.55289 AU
morning rise	1875 Jul 15 06:51	10°♁21'48		inferior conj	1876 Jun 16 01:50	25°♁11'59	-3°-39'-25
direct	1875 Jul 17 23:12	10°♁02'47		minimum elong	1876 Jun 15 17:58	25°♁23'11	3°37'24
morning max el	1875 Jul 27 15:54	14°♁32'49	19°41'57	morning rise	1876 Jun 24 18:26	21°♁20'29	
asc. node	1875 Aug 05 00:40	25°♁24'12		direct	1876 Jun 27 16:53	21°♁00'44	
	1875 Aug 07 16:59	0°♁		morning max el	1876 Jul 09 00:47	26°♁16'23	21°00'08
morning set	1875 Aug 14 06:30	12°♁38'26			1876 Jul 12 12:59	0°♁	
				asc. node	1876 Jul 21 21:44	14°♁16'28	
superior conj	1875 Aug 22 05:34	28°♁40'53	1°45'38	morning set	1876 Jul 28 13:56	27°♁21'08	
minimum elong	1875 Aug 22 06:00	28°♁43'01	1°45'38		1876 Jul 29 20:38	0°♁	
	1875 Aug 22 21:36	0°♁					
max. Earth dist.	1875 Aug 28 03:12	10°♁03'05	1.37404 AU	superior conj	1876 Aug 05 01:33	12°♁54'55	1°43'42
evening rise	1875 Aug 31 23:07	17°♁03'13		minimum elong	1876 Aug 05 00:30	12°♁49'27	1°43'40
	1875 Sep 08 12:33	0°♁		max. Earth dist.	1876 Aug 09 12:16	21°♁53'43	1.35600 AU
desc. node	1875 Sep 12 09:45	6°♁13'19		evening rise	1876 Aug 13 17:19	0°♁00'38	
	1875 Sep 29 06:50	0°♁			1876 Aug 13 17:10	0°♁	
evening max el	1875 Oct 06 17:09	8°♁17'39	25°24'54	desc. node	1876 Aug 29 06:47	26°♁26'03	
retrograde	1875 Oct 18 18:43	15°♁14'15			1876 Aug 31 15:54	0°♁	
evening set	1875 Oct 24 15:45	12°♁47'23		evening max el	1876 Sep 18 05:09	21°♁55'55	26°27'31
min. Earth dist.	1875 Oct 29 02:35	7°♁51'56	0.67106 AU	retrograde	1876 Oct 01 00:54	29°♁08'23	
inferior conj	1875 Oct 30 05:39	6°♁24'33	0°-36'-21	evening set	1876 Oct 07 11:45	26°♁29'42	
minimum elong	1875 Oct 30 06:35	6°♁21'33	0°35'58	min. Earth dist.	1876 Oct 11 15:02	22°♁10'58	0.66235 AU
asc. node	1875 Oct 31 23:53	4°♁11'28		inferior conj	1876 Oct 13 05:40	20°♁13'55	-1°-34'-16
morning rise	1875 Nov 04 22:06	0°♁25'36		minimum elong	1876 Oct 13 08:11	20°♁06'19	1°33'15
	1875 Nov 05 16:00	30°♁		asc. node	1876 Oct 17 20:57	15°♁20'37	
direct	1875 Nov 08 06:17	29°♁21'11		morning rise	1876 Oct 19 05:49	14°♁25'41	
	1875 Nov 10 23:05	0°♁		direct	1876 Oct 22 04:18	13°♁36'56	
morning max el	1875 Nov 15 10:32	3°♁23'54	19°25'21	morning max el	1876 Oct 28 21:11	17°♁18'30	18°37'25
greatest brilliancy	1875 Nov 24 11:56	14°♁58'09	-0.7m		1876 Nov 07 09:53	0°♁	
	1875 Dec 04 11:22	0°♁		morning set	1876 Nov 18 10:08	17°♁21'44	
morning set	1875 Dec 09 13:08	7°♁50'20		desc. node	1876 Nov 25 06:05	28°♁12'06	
desc. node	1875 Dec 09 09:04	7°♁34'35			1876 Nov 26 09:25	0°♁	
max. Earth dist.	1875 Dec 22 19:40	28°♁35'18	1.44592 AU				
	1875 Dec 23 17:03	0°♁		superior conj	1876 Dec 04 11:42	12°♁44'01	0°-59'-8
				minimum elong	1876 Dec 04 04:22	12°♁15'16	0°58'15
superior conj	1875 Dec 26 08:53	4°♁13'52	-1°-38'-45	max. Earth dist.	1876 Dec 04 13:39	12°♁51'41	1.45120 AU
minimum elong	1875 Dec 26 00:31	3°♁40'27	1°38'01		1876 Dec 15 10:43	0°♁	
evening rise	1876 Jan 09 15:27	27°♁32'45		evening rise	1876 Dec 20 08:55	7°♁49'41	
	1876 Jan 11 02:44	0°♁			1877 Jan 03 11:13	0°♁	
asc. node	1876 Jan 27 23:11	25°♁47'25		evening max el	1877 Jan 11 04:53	10°♁05'20	18°57'07
evening max el	1876 Jan 28 18:29	26°♁38'30	18°23'46	asc. node	1877 Jan 13 20:14	12°♁23'53	
	1876 Feb 02 20:23	0°♁		retrograde	1877 Jan 18 01:01	13°♁57'26	
retrograde	1876 Feb 04 06:30	0°♁11'01		evening set	1877 Jan 21 06:10	12°♁57'43	
	1876 Feb 05 16:26	30°♁		inferior conj	1877 Jan 26 22:57	7°♁10'46	3°26'08
evening set	1876 Feb 07 05:37	29°♁23'01		minimum elong	1877 Jan 26 20:52	7°♁17'16	3°25'48
inferior conj	1876 Feb 13 05:01	23°♁53'13	3°41'44	min. Earth dist.	1877 Jan 28 13:45	5°♁09'34	0.65623 AU
minimum elong	1876 Feb 13 04:05	23°♁55'54	3°41'41	morning rise	1877 Feb 01 10:34	0°♁58'19	
min. Earth dist.	1876 Feb 15 11:11	21°♁17'46	0.64116 AU		1877 Feb 02 15:48	30°♁	
morning rise	1876 Feb 19 01:01	17°♁45'47		direct	1877 Feb 07 23:01	28°♁08'36	

	1877 Feb 13 20:34	0°♁		min. Earth dist.	1878 Jan 12 00:09	19°♁19'01	0.66731 AU
morning max el	1877 Feb 20 23:18	5°♁48'22	26°40'55	morning rise	1878 Jan 16 06:14	14°♁25'35	
desc. node	1877 Feb 21 05:18	6°♁03'33		direct	1878 Jan 22 06:11	11°♁46'05	
	1877 Mar 11 13:41	0°♁		morning max el	1878 Feb 03 08:14	18°♁58'12	25°28'04
morning set	1877 Mar 28 21:05	29°♁35'37		desc. node	1878 Feb 08 02:19	24°♁13'12	
	1877 Mar 29 02:13	0°♁			1878 Feb 12 17:02	0°♁	
max. Earth dist.	1877 Apr 02 04:23	7°♁57'59	1.34559 AU		1878 Mar 04 15:27	0°♁	
				morning set	1878 Mar 11 13:18	12°♁04'39	
superior conj	1877 Apr 06 13:04	16°♁50'03	0°-52'-54	max. Earth dist.	1878 Mar 15 07:41	19°♁02'48	1.36228 AU
minimum elong	1877 Apr 06 15:44	17°♁03'52	0°52'25		1878 Mar 20 23:11	0°♁	
asc. node	1877 Apr 11 19:31	27°♁51'31					
	1877 Apr 12 20:03	0°♁		superior conj	1878 Mar 21 04:37	0°♁27'01	-1°-19'-40
evening rise	1877 Apr 14 03:24	2°♁43'18		minimum elong	1878 Mar 21 08:28	0°♁46'13	1°19'05
	1877 Apr 29 20:17	0°♁		evening rise	1878 Mar 29 08:31	17°♁00'15	
evening max el	1877 May 03 11:19	4°♁01'39	21°05'18	asc. node	1878 Mar 29 16:34	17°♁40'57	
retrograde	1877 May 15 05:48	9°♁45'51			1878 Apr 05 01:16	0°♁	
evening set	1877 May 17 11:36	9°♁34'06		evening max el	1878 Apr 15 21:14	15°♁25'32	19°51'28
desc. node	1877 May 20 04:30	8°♁51'07		retrograde	1878 Apr 25 21:58	20°♁16'01	
inferior conj	1877 May 26 19:45	5°♁35'48	-1°-54'-39	evening set	1878 Apr 27 22:37	20°♁05'03	
minimum elong	1877 May 26 14:24	5°♁43'21	1°52'47	inferior conj	1878 May 06 18:47	16°♁04'12	0°04'52
min. Earth dist.	1877 May 27 09:02	5°♁17'01	0.54916 AU	minimum elong	1878 May 06 19:00	16°♁03'52	0°04'47
morning rise	1877 Jun 04 16:54	1°♁34'30		transit begin	1878 May 06 15:13	16°♁09'41	
direct	1877 Jun 08 02:24	1°♁09'34		transit end	1878 May 06 22:47	15°♁58'03	
morning max el	1877 Jun 20 23:02	7°♁17'40	22°34'56	desc. node	1878 May 07 01:30	15°♁53'52	
	1877 Jul 06 21:27	0°♁		min. Earth dist.	1878 May 08 22:53	14°♁44'30	0.55511 AU
asc. node	1877 Jul 08 18:46	3°♁37'07		morning rise	1878 May 15 12:13	11°♁35'34	
morning set	1877 Jul 13 00:25	12°♁13'29		direct	1878 May 19 17:48	10°♁55'59	
				morning max el	1878 Jun 02 14:29	17°♁49'54	24°16'58
superior conj	1877 Jul 20 04:59	27°♁31'24	1°35'17		1878 Jun 12 14:03	0°♁	
minimum elong	1877 Jul 20 02:59	27°♁20'46	1°35'07	asc. node	1878 Jun 25 15:48	23°♁18'46	
	1877 Jul 21 09:06	0°♁		morning set	1878 Jun 27 12:14	27°♁10'12	
max. Earth dist.	1877 Jul 23 06:02	3°♁54'47	1.34152 AU		1878 Jun 28 20:13	0°♁	
evening rise	1877 Jul 28 02:23	13°♁41'53					
	1877 Aug 05 22:51	0°♁		superior conj	1878 Jul 04 13:15	12°♁21'58	1°21'37
desc. node	1877 Aug 16 03:48	16°♁15'09		minimum elong	1878 Jul 04 10:51	12°♁08'58	1°21'18
	1877 Aug 26 14:35	0°♁		max. Earth dist.	1878 Jul 06 08:51	16°♁17'21	1.33107 AU
evening max el	1877 Aug 31 17:13	5°♁25'08	27°10'10	evening rise	1878 Jul 11 22:17	27°♁55'13	
retrograde	1877 Sep 14 01:39	12°♁43'43			1878 Jul 12 23:06	0°♁	
evening set	1877 Sep 20 23:43	10°♁00'37			1878 Jul 30 04:14	0°♁	
min. Earth dist.	1877 Sep 24 20:10	6°♁18'25	0.65012 AU	desc. node	1878 Aug 03 00:49	5°♁30'38	
inferior conj	1877 Sep 26 23:10	3°♁56'14	-2°-32'-27	evening max el	1878 Aug 14 04:04	18°♁34'14	27°26'01
minimum elong	1877 Sep 27 03:12	3°♁44'58	2°31'00	retrograde	1878 Aug 27 20:16	25°♁51'55	
	1877 Sep 30 20:37	30°♁		evening set	1878 Sep 04 00:37	23°♁14'59	
morning rise	1877 Oct 03 08:28	28°♁21'45		min. Earth dist.	1878 Sep 07 16:01	20°♁05'59	0.63442 AU
asc. node	1877 Oct 04 18:00	27°♁52'58		inferior conj	1878 Sep 10 07:34	17°♁26'12	-3°-27'-58
direct	1877 Oct 05 23:44	27°♁44'44		minimum elong	1878 Sep 10 12:42	17°♁13'15	3°26'27
	1877 Oct 11 03:39	0°♁		morning rise	1878 Sep 17 03:08	12°♁08'44	
morning max el	1877 Oct 12 11:59	1°♁14'20	18°06'04	direct	1878 Sep 19 13:52	11°♁39'51	
morning set	1877 Oct 30 12:19	28°♁19'31		asc. node	1878 Sep 21 15:01	12°♁00'28	
	1877 Oct 31 12:32	0°♁		morning max el	1878 Sep 26 04:10	15°♁05'33	17°52'13
desc. node	1877 Nov 12 03:06	18°♁55'55			1878 Oct 06 13:56	0°♁	
				morning set	1878 Oct 12 16:05	10°♁31'50	
superior conj	1877 Nov 13 17:23	21°♁28'44	0°-10'-42		1878 Oct 24 01:30	0°♁	
minimum elong	1877 Nov 13 16:03	21°♁23'23	0°10'31				
behind sun begin	1877 Nov 13 07:46	20°♁50'25		superior conj	1878 Oct 24 20:28	1°♁18'36	0°34'29
behind sun end	1877 Nov 14 00:19	21°♁56'20		minimum elong	1878 Oct 24 23:53	1°♁32'47	0°34'02
max. Earth dist.	1877 Nov 17 08:20	27°♁13'09	1.44914 AU	desc. node	1878 Oct 30 00:08	9°♁43'12	
	1877 Nov 19 02:45	0°♁		max. Earth dist.	1878 Oct 31 01:24	11°♁24'44	1.44009 AU
evening rise	1877 Nov 30 04:41	17°♁15'28		evening rise	1878 Nov 09 13:14	26°♁18'59	
	1877 Dec 08 11:10	0°♁			1878 Nov 11 22:48	0°♁	
greatest brilliancy	1877 Dec 17 23:08	14°♁07'48	-0.6m		1878 Dec 02 13:16	0°♁	
evening max el	1877 Dec 25 11:13	23°♁34'16	19°46'52	greatest brilliancy	1878 Dec 02 22:37	0°♁30'29	-0.5m
asc. node	1877 Dec 31 17:17	27°♁46'40		evening max el	1878 Dec 08 12:17	7°♁04'36	20°50'30
retrograde	1878 Jan 01 22:19	27°♁54'47		retrograde	1878 Dec 16 20:02	12°♁00'04	
evening set	1878 Jan 05 11:02	26°♁41'52		asc. node	1878 Dec 18 14:18	11°♁42'45	
inferior conj	1878 Jan 10 23:34	20°♁40'25	2°58'49	evening set	1878 Dec 20 18:13	10°♁32'13	
minimum elong	1878 Jan 10 20:58	20°♁49'01	2°58'11	inferior conj	1878 Dec 26 04:26	4°♁19'17	2°22'29

minimum elong	1878 Dec 26 01:52	4°☿28'03	2°21'40	retrograde	1879 Nov 30 16:29	26°♁10'18	
min. Earth dist.	1878 Dec 26 16:17	3°☿38'40	0.67446 AU	evening set	1879 Dec 05 01:59	24°♁26'00	
	1878 Dec 29 12:06	30°♁		asc. node	1879 Dec 05 11:18	24°♁06'31	
morning rise	1878 Dec 31 09:06	28°♁04'05		inferior conj	1879 Dec 10 11:29	18°♁04'56	1°39'00
direct	1879 Jan 05 18:20	25°♁43'00		minimum elong	1879 Dec 10 09:26	18°♁12'02	1°38'13
	1879 Jan 14 07:55	0°☿		min. Earth dist.	1879 Dec 10 11:52	18°♁03'36	0.67788 AU
morning max el	1879 Jan 16 16:30	2°☿13'49	24°02'29	morning rise	1879 Dec 15 16:42	11°♁51'20	
desc. node	1879 Jan 25 23:21	13°☿12'42		direct	1879 Dec 20 10:42	9°♁52'39	
	1879 Feb 06 19:20	0°♁		morning max el	1879 Dec 30 02:56	15°♁35'47	22°34'13
morning set	1879 Feb 21 07:58	23°♁26'42		greatest brilliancy	1880 Jan 03 16:47	20°♁42'29	-0.3m
	1879 Feb 25 01:40	0°♁			1880 Jan 10 20:07	0°☿	
max. Earth dist.	1879 Feb 25 03:30	0°♁08'11	1.38252 AU	desc. node	1880 Jan 12 20:24	2°☿48'01	
					1880 Jan 30 20:04	0°♁	
superior conj	1879 Mar 04 08:02	13°♁24'25	-1°-42'-56	morning set	1880 Feb 01 23:12	3°♁27'40	
minimum elong	1879 Mar 04 12:17	13°♁44'39	1°42'30	max. Earth dist.	1880 Feb 06 23:47	11°♁50'38	1.40405 AU
	1879 Mar 12 20:21	0°♁					
evening rise	1879 Mar 13 06:52	0°♁51'43		superior conj	1880 Feb 14 18:50	25°♁30'50	-1°-59'-25
asc. node	1879 Mar 16 13:36	7°♁14'02		minimum elong	1880 Feb 14 21:51	25°♁44'31	1°59'17
evening max el	1879 Mar 29 18:11	27°♁28'22	18°56'56		1880 Feb 17 05:52	0°♁	
	1879 Apr 01 23:07	0°♁		evening rise	1880 Feb 24 19:24	14°♁10'12	
retrograde	1879 Apr 07 04:57	1°♁34'26		asc. node	1880 Mar 02 10:38	26°♁24'55	
evening set	1879 Apr 09 09:21	1°♁19'08			1880 Mar 04 12:58	0°♁	
	1879 Apr 12 19:41	30°♁		evening max el	1880 Mar 11 23:29	10°♁03'48	18°22'30
inferior conj	1879 Apr 17 10:48	27°♁02'43	1°46'43	retrograde	1880 Mar 19 07:14	13°♁41'25	
minimum elong	1879 Apr 17 14:27	26°♁56'13	1°45'35	evening set	1880 Mar 21 17:04	13°♁18'53	
min. Earth dist.	1879 Apr 20 14:42	24°♁49'15	0.56942 AU	inferior conj	1880 Mar 29 00:09	8°♁41'48	2°55'34
desc. node	1879 Apr 23 22:32	22°♁47'49		minimum elong	1880 Mar 29 03:52	8°♁34'03	2°54'47
morning rise	1879 Apr 25 15:19	22°♁00'05		min. Earth dist.	1880 Apr 01 10:40	5°♁51'57	0.58903 AU
direct	1879 Apr 30 22:04	20°♁53'38		morning rise	1880 Apr 05 10:44	3°♁09'52	
morning max el	1879 May 15 05:13	28°♁18'32	25°52'02	desc. node	1880 Apr 09 19:34	1°♁36'48	
	1879 May 16 21:28	0°♁		direct	1880 Apr 11 15:43	1°♁27'50	
	1879 Jun 05 23:35	0°♁		morning max el	1880 Apr 26 00:33	9°♁11'21	27°04'45
morning set	1879 Jun 11 23:43	12°♁05'17			1880 May 11 21:30	0°♁	
asc. node	1879 Jun 12 12:50	13°♁14'37		morning set	1880 May 26 09:15	26°♁53'11	
					1880 May 27 20:40	0°♁	
superior conj	1879 Jun 19 00:09	27°♁18'43	1°03'37	asc. node	1880 May 29 09:54	3°♁19'37	
minimum elong	1879 Jun 18 21:52	27°♁06'10	1°03'13				
max. Earth dist.	1879 Jun 19 18:15	28°♁57'55	1.32461 AU	superior conj	1880 Jun 02 11:57	12°♁15'42	0°42'01
	1879 Jun 20 05:35	0°♁		minimum elong	1880 Jun 02 10:13	12°♁06'10	0°41'40
evening rise	1879 Jun 26 01:39	12°♁29'34		max. Earth dist.	1880 Jun 02 06:32	11°♁45'55	1.32197 AU
	1879 Jul 05 02:40	0°♁		evening rise	1880 Jun 09 09:55	27°♁16'35	
desc. node	1879 Jul 20 21:50	23°♁57'35			1880 Jun 10 17:12	0°♁	
	1879 Jul 26 07:01	0°♁			1880 Jun 27 17:18	0°♁	
evening max el	1879 Jul 27 11:01	1°♁08'21	27°10'00	desc. node	1880 Jul 06 18:51	11°♁15'55	
retrograde	1879 Aug 10 07:43	8°♁22'44		evening max el	1880 Jul 08 11:26	12°♁56'50	26°20'53
evening set	1879 Aug 17 10:25	6°♁04'38		retrograde	1880 Jul 22 11:02	20°♁08'32	
min. Earth dist.	1879 Aug 21 01:15	3°♁20'08	0.61570 AU	evening set	1880 Jul 29 00:27	18°♁21'52	
inferior conj	1879 Aug 24 03:41	0°♁34'46	-4°-16'-11	min. Earth dist.	1880 Aug 02 00:24	15°♁46'30	0.59518 AU
minimum elong	1879 Aug 24 08:48	0°♁23'20	4°15'08	inferior conj	1880 Aug 05 07:57	13°♁12'35	-4°-49'-23
	1879 Aug 24 19:20	30°♁		minimum elong	1880 Aug 05 11:01	13°♁06'38	4°49'06
morning rise	1879 Aug 31 10:02	25°♁37'51		morning rise	1880 Aug 13 00:58	8°♁38'51	
direct	1879 Sep 02 19:07	25°♁14'08		direct	1880 Aug 15 11:06	8°♁18'10	
asc. node	1879 Sep 08 12:02	27°♁35'19		morning max el	1880 Aug 23 04:33	12°♁01'51	18°21'11
morning max el	1879 Sep 09 18:43	28°♁44'03	17°56'53	asc. node	1880 Aug 25 09:05	14°♁23'33	
	1879 Sep 10 23:41	0°♁			1880 Sep 04 05:12	0°♁	
morning set	1879 Sep 25 14:57	23°♁38'38		morning set	1880 Sep 08 03:29	7°♁24'23	
	1879 Sep 29 02:35	0°♁					
superior conj	1879 Oct 06 02:43	12°♁28'29	1°09'09	superior conj	1880 Sep 17 09:02	24°♁49'18	1°31'40
minimum elong	1879 Oct 06 07:17	12°♁48'23	1°08'36	minimum elong	1880 Sep 17 12:26	25°♁04'53	1°31'22
max. Earth dist.	1879 Oct 13 14:25	25°♁09'19	1.42506 AU		1880 Sep 20 05:35	0°♁	
	1879 Oct 16 13:41	0°♁		max. Earth dist.	1880 Sep 24 21:42	8°♁11'39	1.40599 AU
desc. node	1879 Oct 16 21:09	0°♁30'10		evening rise	1880 Sep 29 12:30	15°♁57'34	
evening rise	1879 Oct 20 03:13	5°♁41'27		desc. node	1880 Oct 02 18:11	21°♁13'15	
	1879 Nov 05 06:38	0°♁			1880 Oct 08 08:38	0°♁	
greatest brilliancy	1879 Nov 16 14:23	15°♁15'44	-0.3m		1880 Oct 30 02:45	0°♁	
evening max el	1879 Nov 21 07:45	20°♁36'06	22°04'30	evening max el	1880 Nov 02 22:36	4°♁09'28	23°24'01
				retrograde	1880 Nov 13 10:12	10°♁21'45	

evening set	1880 Nov 18 08:41	8°♁20'14		evening max el	1881 Oct 16 11:01	17°♍46'55	24°42'48
asc. node	1880 Nov 21 08:20	5°♁10'05		retrograde	1881 Oct 28 00:08	24°♍30'42	
min. Earth dist.	1880 Nov 23 08:34	2°♁30'15	0.67781 AU	evening set	1881 Nov 02 12:42	22°♍12'34	
inferior conj	1880 Nov 23 18:52	1°♁54'56	0°49'46	min. Earth dist.	1881 Nov 07 04:03	16°♍56'31	0.67444 AU
minimum elong	1880 Nov 23 17:43	1°♁58'52	0°49'18	inferior conj	1881 Nov 08 00:52	15°♍47'22	0°-3'-53
	1880 Nov 25 04:52	30°♍		minimum elong	1881 Nov 08 00:57	15°♍47'03	0°03'52
morning rise	1880 Nov 29 02:52	25°♍44'56		transit begin	1881 Nov 07 22:17	15°♍55'56	
direct	1880 Dec 03 06:22	24°♍09'08		transit end	1881 Nov 08 03:38	15°♍38'10	
morning max el	1880 Dec 11 18:55	29°♍06'46	21°11'27	asc. node	1881 Nov 08 05:23	15°♍32'20	
	1880 Dec 12 15:30	0°♁		morning rise	1881 Nov 13 13:40	9°♍43'26	
greatest brilliancy	1880 Dec 17 02:27	5°♁13'17	-0.4m	direct	1881 Nov 17 04:18	8°♍28'28	
desc. node	1880 Dec 29 17:27	22°♁48'41		morning max el	1881 Nov 24 18:30	12°♍48'39	19°59'56
	1881 Jan 03 12:49	0°♁		greatest brilliancy	1881 Dec 01 23:26	21°♍35'23	-0.6m
morning set	1881 Jan 11 10:11	12°♁09'56			1881 Dec 07 20:56	0°♁	
max. Earth dist.	1881 Jan 19 01:59	24°♁26'28	1.42398 AU	desc. node	1881 Dec 16 14:29	13°♁07'50	
	1881 Jan 22 10:40	0°♁		morning set	1881 Dec 21 06:22	20°♁17'29	
					1881 Dec 27 12:02	0°♁	
superior conj	1881 Jan 26 07:41	6°♁33'21	-2°-4'-41	max. Earth dist.	1882 Jan 01 11:39	7°♁53'12	1.43965 AU
minimum elong	1881 Jan 26 07:01	6°♁30'30	2°04'41				
evening rise	1881 Feb 06 18:17	26°♁46'34		superior conj	1882 Jan 06 18:34	16°♁24'52	-1°-53'-44
	1881 Feb 08 13:10	0°♁		minimum elong	1882 Jan 06 12:29	16°♁00'05	1°53'23
asc. node	1881 Feb 17 07:41	15°♁05'48			1882 Jan 14 22:56	0°♁	
evening max el	1881 Feb 23 09:53	23°♁02'35	18°07'55	evening rise	1882 Jan 19 23:15	8°♁32'54	
retrograde	1881 Mar 02 02:11	26°♁27'30			1882 Feb 01 22:15	0°♁	
evening set	1881 Mar 04 17:11	25°♁56'00		asc. node	1882 Feb 04 04:44	3°♁07'51	
inferior conj	1881 Mar 11 09:09	20°♁57'46	3°32'24	evening max el	1882 Feb 06 22:27	6°♁17'31	18°12'37
minimum elong	1881 Mar 11 11:08	20°♁52'59	3°32'11	retrograde	1882 Feb 13 09:26	9°♁43'31	
min. Earth dist.	1881 Mar 14 13:31	17°♁55'44	0.61049 AU	evening set	1882 Feb 16 05:29	9°♁01'52	
morning rise	1881 Mar 18 02:07	15°♁06'09		inferior conj	1882 Feb 22 10:00	3°♁43'21	3°43'54
direct	1881 Mar 24 20:50	12°♁49'20		minimum elong	1882 Feb 22 10:01	3°♁43'20	3°43'53
desc. node	1881 Mar 27 16:37	13°♁11'31		min. Earth dist.	1882 Feb 25 01:11	0°♁52'49	0.63087 AU
morning max el	1881 Apr 08 02:12	20°♁43'04	27°44'00		1882 Feb 25 21:52	30°♁	
	1881 Apr 16 02:40	0°♁		morning rise	1882 Feb 28 12:32	27°♁40'14	
	1881 May 04 19:44	0°♁		direct	1882 Mar 07 11:13	24°♁59'09	
morning set	1881 May 10 14:56	11°♁26'56		desc. node	1882 Mar 14 13:41	27°♁19'50	
asc. node	1881 May 16 06:58	23°♁28'36			1882 Mar 18 05:02	0°♁	
max. Earth dist.	1881 May 16 17:47	24°♁27'25	1.32312 AU	morning max el	1882 Mar 21 08:57	2°♁54'57	27°45'49
					1882 Apr 10 12:10	0°♁	
superior conj	1881 May 17 22:54	27°♁06'30	0°17'31	morning set	1882 Apr 24 14:32	25°♁39'14	
minimum elong	1881 May 17 22:06	27°♁02'09	0°17'21		1882 Apr 26 17:50	0°♁	
	1881 May 19 06:34	0°♁		max. Earth dist.	1882 Apr 30 00:01	6°♁49'23	1.32836 AU
evening rise	1881 May 24 20:56	12°♁08'27					
	1881 Jun 02 22:37	0°♁		superior conj	1882 May 02 07:17	11°♁45'29	0°-9'-6
evening max el	1881 Jun 20 04:47	23°♁59'35	25°03'45	minimum elong	1882 May 02 07:43	11°♁47'51	0°09'01
desc. node	1881 Jun 23 15:52	26°♁57'53		behind sun begin	1882 May 02 03:22	11°♁24'22	
	1881 Jun 28 20:21	0°♁		behind sun end	1882 May 02 12:05	12°♁11'22	
retrograde	1881 Jul 04 04:35	1°♁06'06		asc. node	1882 May 03 04:02	13°♁37'32	
evening set	1881 Jul 09 15:02	29°♁58'15		evening rise	1882 May 09 08:46	26°♁58'51	
	1881 Jul 09 13:18	30°♁			1882 May 10 19:18	0°♁	
min. Earth dist.	1881 Jul 14 16:22	27°♁13'03	0.57514 AU		1882 May 28 14:41	0°♁	
inferior conj	1881 Jul 17 17:10	25°♁10'43	-4°-55'-49	evening max el	1882 Jun 01 18:37	4°♁32'55	23°30'10
minimum elong	1881 Jul 17 15:40	25°♁13'15	4°55'47	desc. node	1882 Jun 10 12:54	10°♁28'10	
morning rise	1881 Jul 25 20:05	20°♁59'30		retrograde	1882 Jun 15 09:41	11°♁21'57	
direct	1881 Jul 28 09:29	20°♁40'23		evening set	1882 Jun 19 08:31	10°♁47'42	
morning max el	1881 Aug 06 06:35	24°♁49'58	19°06'21	min. Earth dist.	1882 Jun 26 04:52	7°♁37'28	0.55900 AU
	1881 Aug 10 17:42	0°♁		inferior conj	1882 Jun 28 06:18	6°♁23'51	-4°-21'-22
asc. node	1881 Aug 12 06:10	2°♁10'22		minimum elong	1882 Jun 27 23:44	6°♁33'41	4°20'11
morning set	1881 Aug 23 01:41	21°♁38'44		morning rise	1882 Jul 06 18:13	2°♁28'32	
	1881 Aug 27 06:41	0°♁		direct	1882 Jul 09 12:40	2°♁09'33	
				morning max el	1882 Jul 19 22:01	6°♁58'20	20°12'51
superior conj	1881 Aug 31 09:53	8°♁05'30	1°43'13	asc. node	1882 Jul 30 03:15	20°♁41'54	
minimum elong	1881 Aug 31 11:22	8°♁12'42	1°43'09		1882 Aug 04 03:57	0°♁	
max. Earth dist.	1881 Sep 07 01:18	20°♁31'05	1.38544 AU	morning set	1882 Aug 07 06:26	6°♁12'49	
evening rise	1881 Sep 10 22:02	27°♁21'48					
	1881 Sep 12 10:48	0°♁		superior conj	1882 Aug 15 00:03	22°♁01'35	1°45'41
desc. node	1881 Sep 19 15:12	11°♁48'45		minimum elong	1882 Aug 14 23:47	22°♁00'16	1°45'42
	1881 Oct 01 20:56	0°♁			1882 Aug 19 00:41	0°♁	

max. Earth dist.	1882 Aug 20 06:46	2°♎24'59	1.36596 AU	evening rise	1883 Aug 07 06:43	23°♏06'20	
evening rise	1882 Aug 24 05:37	9°♎48'39			1883 Aug 10 23:17	0°♎	
	1882 Sep 05 02:37	0°♎		desc. node	1883 Aug 24 09:14	22°♎15'05	
desc. node	1882 Sep 06 12:12	2°♎11'24			1883 Aug 29 18:42	0°♎	
	1882 Sep 27 12:24	0°♎		evening max el	1883 Sep 11 11:22	15°♎03'11	26°48'32
evening max el	1882 Sep 28 23:01	1°♎26'48	25°53'34	retrograde	1883 Sep 24 12:59	22°♎18'23	
retrograde	1882 Oct 11 09:14	8°♎31'32		evening set	1883 Oct 01 05:02	19°♎37'01	
evening set	1882 Oct 17 12:10	5°♎59'17		min. Earth dist.	1883 Oct 05 05:26	15°♎33'52	0.65766 AU
min. Earth dist.	1882 Oct 21 19:50	1°♎19'01	0.66778 AU	inferior conj	1883 Oct 07 01:09	13°♎25'45	-1°-59'-1
	1882 Oct 22 20:54	30°♎		minimum elong	1883 Oct 07 04:19	13°♎16'26	1°57'47
inferior conj	1882 Oct 23 03:37	29°♎38'47	-1°00'-42	morning rise	1883 Oct 13 05:00	7°♎42'47	
minimum elong	1882 Oct 23 05:12	29°♎33'47	1°00'03	asc. node	1883 Oct 12 23:29	7°♎50'08	
asc. node	1882 Oct 26 02:27	26°♎08'45		direct	1883 Oct 16 00:14	6°♎59'19	
morning rise	1882 Oct 28 23:07	23°♎43'42		morning max el	1883 Oct 22 14:08	10°♎34'27	18°21'56
direct	1882 Nov 01 02:53	22°♎46'22			1883 Nov 05 05:47	0°♎	
morning max el	1882 Nov 08 01:28	26°♎39'04	19°02'53	morning set	1883 Nov 10 22:13	9°♎11'46	
	1882 Nov 11 00:32	0°♎		desc. node	1883 Nov 20 08:30	24°♎19'56	
morning set	1882 Nov 30 12:46	29°♎02'58			1883 Nov 23 22:21	0°♎	
	1882 Dec 01 03:21	0°♎					
desc. node	1882 Dec 03 11:30	3°♎39'33		superior conj	1883 Nov 26 06:37	3°♎41'47	0°-38'-54
max. Earth dist.	1882 Dec 15 03:23	21°♎56'22	1.44912 AU	minimum elong	1883 Nov 26 01:35	3°♎21'59	0°38'14
				max. Earth dist.	1883 Nov 27 22:30	6°♎18'39	1.45134 AU
superior conj	1882 Dec 17 05:26	25°♎13'41	-1°-23'-46	evening rise	1883 Dec 12 13:44	29°♎15'20	
minimum elong	1882 Dec 16 20:37	24°♎38'55	1°22'52		1883 Dec 13 01:07	0°♎	
	1882 Dec 20 05:44	0°♎		greatest brilliancy	1883 Dec 26 08:11	20°♎38'53	-0.7m
evening rise	1883 Jan 01 06:10	19°♎22'08			1884 Jan 02 01:02	0°♎	
	1883 Jan 07 18:11	0°♎		evening max el	1884 Jan 04 19:16	3°♎09'28	19°16'24
evening max el	1883 Jan 21 10:22	19°♎41'32	18°35'53	asc. node	1884 Jan 08 22:47	6°♎26'10	
asc. node	1883 Jan 22 01:45	20°♎19'19		retrograde	1884 Jan 11 20:48	7°♎12'21	
retrograde	1883 Jan 28 00:48	23°♎20'46		evening set	1884 Jan 15 05:04	6°♎07'00	
evening set	1883 Jan 31 02:24	22°♎27'52		inferior conj	1884 Jan 20 19:46	0°♎13'25	3°15'46
inferior conj	1883 Feb 05 22:41	16°♎50'40	3°36'44	minimum elong	1884 Jan 20 17:24	0°♎21'02	3°15'18
minimum elong	1883 Feb 05 21:11	16°♎55'10	3°36'34		1884 Jan 20 23:57	30°♎	
min. Earth dist.	1883 Feb 07 22:18	14°♎28'43	0.64814 AU	min. Earth dist.	1884 Jan 22 04:15	28°♎29'07	0.66149 AU
morning rise	1883 Feb 11 14:42	10°♎40'59		morning rise	1884 Jan 26 04:55	23°♎59'55	
direct	1883 Feb 18 08:46	7°♎50'25		direct	1884 Feb 01 12:27	21°♎13'34	
desc. node	1883 Mar 01 10:44	13°♎26'46		morning max el	1884 Feb 14 03:53	28°♎42'30	26°12'09
morning max el	1883 Mar 03 18:17	15°♎38'42	27°12'57		1884 Feb 15 09:52	0°♎	
	1883 Mar 15 13:53	0°♎		desc. node	1884 Feb 16 07:44	0°♎59'00	
	1883 Apr 03 05:56	0°♎		morning set	1884 Mar 08 08:57	0°♎	
morning set	1883 Apr 08 05:12	9°♎21'22		morning set	1884 Mar 21 06:59	22°♎20'51	
max. Earth dist.	1883 Apr 12 21:37	18°♎42'14	1.33799 AU	max. Earth dist.	1884 Mar 25 07:57	0°♎02'55	1.35222 AU
					1884 Mar 25 07:21	0°♎	
superior conj	1883 Apr 16 11:07	26°♎06'39	0°-36'-52				
minimum elong	1883 Apr 16 12:59	26°♎16'25	0°36'30	superior conj	1884 Mar 30 07:58	10°♎01'48	-1°-4'-31
	1883 Apr 18 07:14	0°♎		minimum elong	1884 Mar 30 11:11	10°♎18'15	1°03'58
asc. node	1883 Apr 20 01:04	3°♎42'36		asc. node	1884 Apr 05 22:06	23°♎38'54	
evening rise	1883 Apr 23 19:38	11°♎42'00		evening rise	1884 Apr 07 03:29	26°♎10'27	
	1883 May 03 07:15	0°♎			1884 Apr 09 00:33	0°♎	
evening max el	1883 May 14 11:59	15°♎06'56	21°55'19	evening max el	1884 Apr 25 14:56	26°♎07'36	20°31'36
retrograde	1883 May 27 02:39	21°♎19'11			1884 Apr 30 19:57	0°♎	
desc. node	1883 May 28 09:56	21°♎15'20		retrograde	1884 May 06 15:43	1°♎28'53	
evening set	1883 May 29 19:11	21°♎03'04		evening set	1884 May 08 17:51	1°♎18'09	
min. Earth dist.	1883 Jun 07 16:35	17°♎15'22	0.55012 AU		1884 May 12 21:42	30°♎	
inferior conj	1883 Jun 08 04:01	16°♎59'21	-2°-59'-2	desc. node	1884 May 14 06:58	29°♎20'44	
minimum elong	1883 Jun 07 20:31	17°♎09'52	2°56'45	inferior conj	1884 May 17 22:13	27°♎20'27	-1°-3'-32
morning rise	1883 Jun 16 23:14	13°♎06'07		minimum elong	1884 May 17 19:13	27°♎24'48	1°02'28
direct	1883 Jun 20 01:45	12°♎44'46		min. Earth dist.	1884 May 19 05:07	26°♎35'46	0.55054 AU
morning max el	1883 Jul 02 01:58	18°♎22'39	21°38'52	morning rise	1884 May 26 19:04	23°♎09'41	
	1883 Jul 11 08:30	0°♎		direct	1884 May 30 12:07	22°♎40'02	
asc. node	1883 Jul 17 00:18	9°♎47'24		morning max el	1884 Jun 12 20:36	29°♎08'18	23°18'18
morning set	1883 Jul 22 15:25	21°♎00'25			1884 Jun 13 17:59	0°♎	
	1883 Jul 26 22:07	0°♎		asc. node	1884 Jul 02 21:20	29°♎17'28	
					1884 Jul 03 05:48	0°♎	
superior conj	1883 Jul 29 23:33	6°♎26'05	1°40'50	morning set	1884 Jul 06 02:40	5°♎54'55	
minimum elong	1883 Jul 29 22:01	6°♎18'06	1°40'45				
max. Earth dist.	1883 Aug 02 19:33	14°♎19'03	1.34938 AU	superior conj	1884 Jul 13 05:18	21°♎08'50	1°30'05

minimum elong	1884 Jul 13 03:03	20° $\overline{56}$ '51	1°29'50		1885 Jun 24 20:32	0° $\overline{56}$	
max. Earth dist.	1884 Jul 15 17:30	26° $\overline{29}$ '04	1.33657 AU				
	1884 Jul 17 09:50	0° $\overline{0}$		superior conj	1885 Jun 27 14:54	6° $\overline{02}$ '24	1°14'28
evening rise	1884 Jul 20 20:48	7° $\overline{01}$ '42		minimum elong	1885 Jun 27 12:30	5° $\overline{49}$ '16	1°14'05
	1884 Aug 02 12:41	0° $\overline{0}$		max. Earth dist.	1885 Jun 28 23:21	8° $\overline{58}$ '53	1.32780 AU
desc. node	1884 Aug 10 06:16	11° $\overline{0}$ '51'02		evening rise	1885 Jul 04 20:11	21° $\overline{52}$ '16	
evening max el	1884 Aug 23 23:06	28° $\overline{0}$ '24'43	27°20'29		1885 Jul 09 04:00	0° $\overline{0}$	
	1884 Aug 25 16:53	0° $\overline{0}$			1885 Jul 27 12:59	0° $\overline{0}$	
retrograde	1884 Sep 06 10:58	5° $\overline{43}$ '05		desc. node	1885 Jul 28 03:18	0° $\overline{0}$ '47'30	
evening set	1884 Sep 13 12:41	3° $\overline{40}$ '57		evening max el	1885 Aug 06 08:19	11° $\overline{0}$ '18'52	27°23'14
	1884 Sep 16 20:30	30° $\overline{0}$		retrograde	1885 Aug 20 02:48	18° $\overline{0}$ '36'04	
min. Earth dist.	1884 Sep 17 06:38	29° $\overline{0}$ '33'52	0.64389 AU	evening set	1885 Aug 27 07:42	16° $\overline{0}$ '05'07	
inferior conj	1884 Sep 19 15:05	27° $\overline{0}$ '03'03	-2°-56'-34	min. Earth dist.	1885 Aug 30 21:53	13° $\overline{0}$ '08'16	0.62670 AU
minimum elong	1884 Sep 19 19:40	26° $\overline{0}$ '50'46	2°55'00	inferior conj	1885 Sep 02 18:36	10° $\overline{0}$ '23'59	-3°-49'-46
morning rise	1884 Sep 26 04:39	21° $\overline{0}$ '35'35		minimum elong	1885 Sep 02 23:56	10° $\overline{0}$ '11'14	3°48'23
direct	1884 Sep 28 17:44	21° $\overline{0}$ '02'22		morning rise	1885 Sep 09 18:47	5° $\overline{0}$ '15'16	
asc. node	1884 Sep 28 20:31	21° $\overline{0}$ '02'26		direct	1885 Sep 12 04:23	4° $\overline{0}$ '49'00	
morning max el	1884 Oct 05 05:54	24° $\overline{0}$ '28'58	17°58'04	asc. node	1885 Sep 15 17:33	5° $\overline{0}$ '47'51	
	1884 Oct 09 17:52	0° $\overline{0}$		morning max el	1885 Sep 18 21:49	8° $\overline{0}$ '15'28	17°51'59
morning set	1884 Oct 22 12:02	20° $\overline{0}$ '43'38			1885 Oct 03 03:33	0° $\overline{0}$	
	1884 Oct 28 00:11	0° $\overline{0}$		morning set	1885 Oct 05 00:38	3° $\overline{0}$ '20'27	
superior conj	1884 Nov 04 19:53	12° $\overline{0}$ '50'13	0°09'28	superior conj	1885 Oct 16 10:30	23° $\overline{0}$ '14'03	0°50'41
minimum elong	1884 Nov 04 20:59	12° $\overline{0}$ '54'40	0°09'19	minimum elong	1885 Oct 16 14:50	23° $\overline{0}$ '32'17	0°50'06
behind sun begin	1884 Nov 04 12:28	12° $\overline{0}$ '20'19			1885 Oct 20 11:53	0° $\overline{0}$	
behind sun end	1884 Nov 05 05:29	13° $\overline{0}$ '28'58		max. Earth dist.	1885 Oct 23 08:30	4° $\overline{0}$ '40'01	1.43422 AU
desc. node	1884 Nov 06 05:32	15° $\overline{0}$ '05'41		desc. node	1885 Oct 24 02:34	5° $\overline{0}$ '53'01	
max. Earth dist.	1884 Nov 09 17:20	20° $\overline{0}$ '39'52	1.44611 AU	evening rise	1885 Oct 31 11:42	17° $\overline{0}$ '33'08	
	1884 Nov 15 15:57	0° $\overline{0}$			1885 Nov 08 15:33	0° $\overline{0}$	
evening rise	1884 Nov 21 03:04	8° $\overline{0}$ '27'45		greatest brilliancy	1885 Nov 25 20:07	24° $\overline{0}$ '17'28	-0.4m
	1884 Dec 05 08:29	0° $\overline{0}$			1885 Nov 30 18:21	0° $\overline{0}$	
greatest brilliancy	1884 Dec 11 10:09	8° $\overline{0}$ '38'43	-0.6m	evening max el	1885 Nov 30 21:57	0° $\overline{0}$ '09'16	21°20'56
evening max el	1884 Dec 17 23:25	16° $\overline{0}$ '39'05	20°12'19	retrograde	1885 Dec 09 16:11	5° $\overline{0}$ '21'38	
retrograde	1884 Dec 25 18:40	21° $\overline{0}$ '14'01		asc. node	1885 Dec 12 16:49	4° $\overline{0}$ '30'49	
asc. node	1884 Dec 25 19:48	21° $\overline{0}$ '14'01		evening set	1885 Dec 13 18:50	3° $\overline{0}$ '47'03	
evening set	1884 Dec 29 11:11	19° $\overline{0}$ '54'50			1885 Dec 17 08:11	30° $\overline{0}$	
inferior conj	1885 Jan 03 22:30	13° $\overline{0}$ '47'49	2°44'22	inferior conj	1885 Dec 19 04:33	27° $\overline{0}$ '30'03	2°04'50
minimum elong	1885 Jan 03 19:52	13° $\overline{0}$ '56'43	2°43'39	minimum elong	1885 Dec 19 02:10	27° $\overline{0}$ '38'19	2°04'01
min. Earth dist.	1885 Jan 04 17:23	12° $\overline{0}$ '44'06	0.67081 AU	min. Earth dist.	1885 Dec 19 11:25	27° $\overline{0}$ '06'21	0.67630 AU
morning rise	1885 Jan 09 03:59	7° $\overline{0}$ '32'32		morning rise	1885 Dec 24 09:09	21° $\overline{0}$ '15'01	
direct	1885 Jan 14 21:42	5° $\overline{0}$ '00'26		direct	1885 Dec 29 11:48	19° $\overline{0}$ '03'11	
morning max el	1885 Jan 26 12:39	11° $\overline{0}$ '56'29	24°52'39	morning max el	1886 Jan 08 21:29	25° $\overline{0}$ '14'45	23°24'41
desc. node	1885 Feb 02 04:45	19° $\overline{0}$ '32'07			1886 Jan 13 04:43	0° $\overline{0}$	
	1885 Feb 10 00:44	0° $\overline{0}$		greatest brilliancy	1886 Jan 14 12:49	1° $\overline{0}$ '37'00	-0.2m
	1885 Mar 01 02:40	0° $\overline{0}$		desc. node	1886 Jan 20 01:47	8° $\overline{0}$ '48'12	
morning set	1885 Mar 03 14:51	4° $\overline{0}$ '23'42			1886 Feb 03 13:14	0° $\overline{0}$	
max. Earth dist.	1885 Mar 07 07:38	11° $\overline{0}$ '05'16	1.37060 AU	morning set	1886 Feb 12 22:30	15° $\overline{0}$ '12'50	
				max. Earth dist.	1886 Feb 17 02:15	22° $\overline{0}$ '20'40	1.39169 AU
superior conj	1885 Mar 13 18:49	23° $\overline{0}$ '23'00	-1°-30'-7		1886 Feb 21 09:28	0° $\overline{0}$	
minimum elong	1885 Mar 13 22:58	23° $\overline{0}$ '43'21	1°29'35				
	1885 Mar 17 03:03	0° $\overline{0}$		superior conj	1886 Feb 24 15:45	5° $\overline{0}$ '59'51	-1°-51'00
evening rise	1885 Mar 22 06:06	10° $\overline{0}$ '17'39		minimum elong	1886 Feb 24 19:45	6° $\overline{0}$ '18'26	1°50'42
asc. node	1885 Mar 23 19:08	13° $\overline{0}$ '22'00		evening rise	1886 Mar 06 00:41	23° $\overline{0}$ '55'45	
	1885 Apr 02 01:00	0° $\overline{0}$			1886 Mar 09 04:40	0° $\overline{0}$	
evening max el	1885 Apr 08 05:41	7° $\overline{0}$ '47'50	19°25'44	asc. node	1886 Mar 10 16:10	2° $\overline{0}$ '46'13	
retrograde	1885 Apr 17 13:31	12° $\overline{0}$ '18'11		evening max el	1886 Mar 22 06:35	20° $\overline{0}$ '05'31	18°39'49
evening set	1885 Apr 19 14:58	12° $\overline{0}$ '05'57		retrograde	1886 Mar 30 04:30	23° $\overline{0}$ '57'21	
inferior conj	1885 Apr 28 03:28	7° $\overline{0}$ '59'17	0°51'39	evening set	1886 Apr 01 11:05	23° $\overline{0}$ '39'21	
minimum elong	1885 Apr 28 05:35	7° $\overline{0}$ '55'50	0°50'54	inferior conj	1886 Apr 09 04:30	19° $\overline{0}$ '14'47	2°20'07
min. Earth dist.	1885 Apr 30 19:43	6° $\overline{0}$ '15'15	0.56033 AU	minimum elong	1886 Apr 09 08:31	19° $\overline{0}$ '07'08	2°19'02
desc. node	1885 May 01 03:59	6° $\overline{0}$ '02'19		min. Earth dist.	1886 Apr 12 13:21	16° $\overline{0}$ '42'45	0.57733 AU
morning rise	1885 May 06 16:21	3° $\overline{0}$ '15'54		morning rise	1886 Apr 17 01:36	13° $\overline{0}$ '58'19	
direct	1885 May 11 08:10	2° $\overline{0}$ '26'34		desc. node	1886 Apr 22 18:59	13° $\overline{0}$ '33'14	
morning max el	1885 May 25 11:11	9° $\overline{0}$ '35'45	24°59'17	direct	1886 Apr 28 18:39	12° $\overline{0}$ '37'00	
	1885 Jun 09 17:35	0° $\overline{0}$		morning max el	1886 May 07 03:26	20° $\overline{0}$ '11'59	26°26'27
asc. node	1885 Jun 19 18:22	19° $\overline{0}$ '05'28			1886 May 15 12:58	0° $\overline{0}$	
morning set	1885 Jun 20 14:31	20° $\overline{0}$ '51'09			1886 Jun 02 06:41	0° $\overline{0}$	

morning set	1886 Jun 05 01:23	5°♃43'52				1887 Apr 17 15:41	0°♃		
asc. node	1886 Jun 06 15:27	9°♃05'50			morning max el	1887 Apr 19 01:12	1°♃19'35	27°25'52	
						1887 May 09 17:16	0°♃		
superior conj	1886 Jun 12 02:27	21°♃00'16	0°54'51		morning set	1887 May 20 09:30	20°♃26'23		
minimum elong	1886 Jun 12 00:21	20°♃48'43	0°54'27		asc. node	1887 May 24 12:30	29°♃12'57		
max. Earth dist.	1886 Jun 12 10:15	21°♃43'11	1.32296 AU			1887 May 24 21:09	0°♃		
	1886 Jun 16 05:16	0°♃			max. Earth dist.	1887 May 26 22:33	4°♃30'00	1.32199 AU	
evening rise	1886 Jun 19 01:57	6°♃05'06							
	1886 Jul 01 18:17	0°♃			superior conj	1887 May 27 14:06	5°♃55'27	0°31'56	
desc. node	1886 Jul 15 00:19	18°♃48'22			minimum elong	1887 May 27 12:43	5°♃47'53	0°31'39	
evening max el	1886 Jul 19 12:47	23°♃34'47	26°53'08		evening rise	1887 Jun 03 11:39	20°♃55'18		
	1886 Jul 29 01:30	0°♃				1887 Jun 07 21:59	0°♃		
retrograde	1886 Aug 02 11:23	0°♃48'37				1887 Jun 26 17:13	0°♃		
	1886 Aug 06 18:21	30°♃			evening max el	1887 Jul 01 10:20	5°♃03'55	25°51'05	
evening set	1886 Aug 09 09:47	28°♃42'37			desc. node	1887 Jul 01 21:21	5°♃29'50		
min. Earth dist.	1886 Aug 13 02:54	26°♃04'00	0.60697 AU		retrograde	1887 Jul 15 10:36	12°♃13'25		
inferior conj	1886 Aug 16 08:29	23°♃21'01	-4°-32'-46		evening set	1887 Jul 21 14:03	10°♃43'21		
minimum elong	1886 Aug 16 13:02	23°♃11'25	4°32'03		min. Earth dist.	1887 Jul 25 22:46	8°♃05'51	0.58640 AU	
morning rise	1886 Aug 23 19:26	18°♃33'43			inferior conj	1887 Jul 29 05:02	5°♃43'18	-4°-56'-15	
direct	1886 Aug 26 04:28	18°♃11'39			minimum elong	1887 Jul 29 06:25	5°♃40'45	4°56'13	
morning max el	1886 Sep 02 10:48	21°♃46'37	18°04'45		morning rise	1887 Aug 06 02:18	1°♃19'05		
asc. node	1886 Sep 02 14:37	21°♃55'57			direct	1887 Aug 08 13:38	0°♃59'09		
	1886 Sep 08 18:42	0°♃			morning max el	1887 Aug 16 17:37	4°♃52'30	18°37'45	
morning set	1886 Sep 18 05:57	16°♃45'33			asc. node	1887 Aug 20 11:42	9°♃10'44		
	1886 Sep 25 09:52	0°♃				1887 Sep 01 13:50	0°♃		
					morning set	1887 Sep 01 23:03	0°♃44'41		
superior conj	1886 Sep 28 03:39	4°♃55'53	1°20'08						
minimum elong	1886 Sep 28 07:55	5°♃14'49	1°19'41		superior conj	1887 Sep 10 18:31	17°♃41'40	1°37'47	
max. Earth dist.	1886 Oct 05 18:39	18°♃06'09	1.41725 AU		minimum elong	1887 Sep 10 21:07	17°♃53'55	1°37'37	
desc. node	1886 Oct 10 23:38	26°♃38'58				1887 Sep 17 12:46	0°♃		
evening rise	1886 Oct 11 08:45	27°♃15'35			max. Earth dist.	1887 Sep 18 00:12	0°♃50'13	1.39731 AU	
	1886 Oct 13 01:59	0°♃			evening rise	1887 Sep 22 04:18	8°♃00'20		
	1886 Nov 02 09:24	0°♃			desc. node	1887 Sep 27 20:40	17°♃19'16		
greatest brilliancy	1886 Nov 08 18:19	8°♃13'48	-0.3m			1887 Oct 06 02:30	0°♃		
evening max el	1886 Nov 13 15:21	13°♃41'40	22°38'03		evening max el	1887 Oct 27 05:04	27°♃17'04	23°58'07	
retrograde	1886 Nov 23 11:37	19°♃32'32				1887 Oct 30 04:19	0°♃		
evening set	1886 Nov 28 02:22	17°♃41'13			retrograde	1887 Nov 07 03:41	3°♃43'07		
asc. node	1886 Nov 29 13:51	16°♃17'35			evening set	1887 Nov 12 08:07	1°♃34'27		
inferior conj	1886 Dec 03 12:00	11°♃17'58	1°18'47			1887 Nov 13 23:07	30°♃		
minimum elong	1886 Dec 03 10:17	11°♃23'53	1°18'06		asc. node	1887 Nov 16 10:54	26°♃57'07		
min. Earth dist.	1886 Dec 03 07:52	11°♃32'16	0.67826 AU		min. Earth dist.	1887 Nov 17 04:18	25°♃58'47	0.67681 AU	
morning rise	1886 Dec 08 18:06	5°♃05'24			inferior conj	1887 Nov 17 19:00	25°♃08'57	0°27'31	
direct	1886 Dec 13 05:52	3°♃16'18			minimum elong	1887 Nov 17 18:21	25°♃11'11	0°27'13	
morning max el	1886 Dec 22 09:44	8°♃39'30	21°57'51		morning rise	1887 Nov 23 04:48	19°♃01'18		
greatest brilliancy	1886 Dec 27 02:59	13°♃58'22	-0.4m		direct	1887 Nov 27 02:43	17°♃34'30		
desc. node	1887 Jan 06 22:50	28°♃35'19			morning max el	1887 Dec 05 04:45	22°♃14'31	20°39'26	
	1887 Jan 07 22:18	0°♃			greatest brilliancy	1887 Dec 11 04:08	29°♃15'35	-0.5m	
morning set	1887 Jan 24 01:11	24°♃37'54				1887 Dec 11 17:42	0°♃		
	1887 Jan 27 08:34	0°♃			desc. node	1887 Dec 24 19:54	18°♃44'40		
max. Earth dist.	1887 Jan 30 00:14	4°♃23'30	1.41294 AU			1888 Jan 01 05:26	0°♃		
					morning set	1888 Jan 03 03:15	2°♃57'19		
superior conj	1887 Feb 06 17:56	17°♃40'56	-2°-3'-20		max. Earth dist.	1888 Jan 12 06:07	17°♃24'13	1.43133 AU	
minimum elong	1887 Feb 06 19:43	17°♃48'48	2°03'18						
	1887 Feb 13 13:41	0°♃			superior conj	1888 Jan 18 20:07	28°♃14'14	-2°-2'-17	
evening rise	1887 Feb 17 07:54	6°♃57'09			minimum elong	1888 Jan 18 17:12	28°♃02'00	2°02'13	
asc. node	1887 Feb 25 13:12	21°♃45'16				1888 Jan 19 21:18	0°♃		
	1887 Mar 03 01:20	0°♃			evening rise	1888 Jan 30 23:43	19°♃13'37		
evening max el	1887 Mar 05 14:33	2°♃52'30	18°13'54			1888 Feb 06 02:55	0°♃		
retrograde	1887 Mar 12 14:09	6°♃22'24			asc. node	1888 Feb 12 10:14	10°♃11'12		
evening set	1887 Mar 15 02:23	5°♃56'07			evening max el	1888 Feb 17 02:18	15°♃59'45	18°07'35	
inferior conj	1887 Mar 22 02:35	1°♃10'09	3°14'44		retrograde	1888 Feb 23 15:02	19°♃23'25		
minimum elong	1887 Mar 22 05:41	1°♃03'17	3°14'13		evening set	1888 Feb 26 08:16	18°♃47'34		
	1887 Mar 23 10:07	30°♃			inferior conj	1888 Mar 03 18:53	13°♃40'15	3°39'56	
min. Earth dist.	1887 Mar 25 11:51	28°♃11'59	0.59821 AU		minimum elong	1888 Mar 03 20:01	13°♃37'24	3°39'52	
morning rise	1887 Mar 29 05:28	25°♃28'58			min. Earth dist.	1888 Mar 06 18:03	10°♃40'55	0.61946 AU	
direct	1887 Apr 04 17:46	23°♃31'11			morning rise	1888 Mar 10 05:17	7°♃43'10		
desc. node	1887 Apr 04 22:02	23°♃31'16			direct	1888 Mar 17 02:52	5°♃14'43		

desc. node	1888 Mar 21 19:04	6°♄15'39		morning rise	1889 Feb 20 22:48	20°♁29'32	
morning max el	1888 Mar 31 05:16	13°♄09'20	27°49'21	direct	1889 Feb 27 20:12	17°♁42'53	
	1888 Apr 13 16:21	0°♃		desc. node	1889 Mar 08 16:06	21°♁18'41	
	1888 May 01 02:35	0°♄		morning max el	1889 Mar 13 13:42	25°♁36'59	27°35'51
morning set	1888 May 03 12:56	4°♄52'23			1889 Mar 17 14:45	0°♄	
max. Earth dist.	1888 May 09 08:22	17°♄06'16	1.32492 AU		1889 Apr 07 04:14	0°♃	
asc. node	1888 May 10 09:33	19°♄22'41		morning set	1889 Apr 17 09:08	18°♃53'14	
				max. Earth dist.	1889 Apr 22 11:35	29°♃17'57	1.33196 AU
					1889 Apr 22 19:36	0°♄	
superior conj	1888 May 11 00:11	20°♄42'18	0°06'27				
minimum elong	1888 May 10 23:53	20°♄40'39	0°06'24	superior conj	1889 Apr 25 06:52	5°♄14'17	0°-20'-48
behind sun begin	1888 May 10 19:10	20°♄14'54		minimum elong	1889 Apr 25 07:54	5°♄19'47	0°20'35
behind sun end	1888 May 11 04:37	21°♄06'25		asc. node	1889 Apr 27 06:35	9°♄30'21	
	1888 May 15 06:29	0°♄		evening rise	1889 May 02 10:56	20°♄36'01	
evening rise	1888 May 17 23:17	5°♄48'00			1889 May 07 01:20	0°♄	
	1888 May 30 19:09	0°♄		evening max el	1889 May 24 15:39	26°♄19'56	22°48'56
evening max el	1888 Jun 12 01:31	15°♄51'10	24°24'57		1889 May 29 03:22	0°♄	
desc. node	1888 Jun 17 18:21	20°♄20'33		desc. node	1889 Jun 04 15:21	2°♄44'24	
retrograde	1888 Jun 25 22:36	22°♄51'45		retrograde	1889 Jun 06 22:28	2°♄56'26	
evening set	1888 Jun 30 18:39	21°♄59'28		evening set	1889 Jun 10 06:56	2°♄31'45	
min. Earth dist.	1888 Jul 06 12:28	19°♄05'24	0.56769 AU		1889 Jun 16 10:16	30°♄	
inferior conj	1888 Jul 09 05:32	17°♄22'13	-4°-46'-56	min. Earth dist.	1889 Jun 18 00:10	29°♄07'10	0.55420 AU
minimum elong	1888 Jul 09 01:42	17°♄28'21	4°46'33	inferior conj	1889 Jun 19 11:01	28°♄17'05	-3°-52'00
morning rise	1888 Jul 17 12:25	13°♄19'06		minimum elong	1889 Jun 19 03:18	28°♄28'12	3°50'10
direct	1888 Jul 20 04:01	13°♄00'04		morning rise	1889 Jun 28 02:29	24°♄25'10	
morning max el	1888 Jul 29 15:18	17°♄24'12	19°32'04	direct	1889 Jun 30 23:41	24°♄05'47	
asc. node	1888 Aug 06 08:46	27°♄17'47		morning max el	1889 Jul 12 01:53	29°♄14'16	20°47'22
	1888 Aug 08 00:02	0°♄			1889 Jul 12 20:59	0°♄	
morning set	1888 Aug 16 00:20	15°♄08'10		asc. node	1889 Jul 24 05:49	16°♄04'51	
	1888 Aug 23 10:06	0°♄		morning set	1889 Jul 31 07:07	29°♄48'47	
					1889 Jul 31 09:18	0°♄	
superior conj	1888 Aug 24 01:34	1°♄16'14	1°45'15	superior conj	1889 Aug 07 20:09	15°♄26'06	1°44'26
minimum elong	1888 Aug 24 02:15	1°♄19'40	1°45'15	minimum elong	1889 Aug 07 19:17	15°♄21'39	1°44'25
max. Earth dist.	1888 Aug 30 04:09	12°♄56'57	1.37693 AU	max. Earth dist.	1889 Aug 12 12:01	24°♄47'16	1.35844 AU
evening rise	1888 Sep 02 23:38	19°♄51'42			1889 Aug 15 04:51	0°♄	
	1888 Sep 08 21:22	0°♄		evening rise	1889 Aug 16 15:14	2°♄41'43	
desc. node	1888 Sep 13 17:41	7°♄49'46		desc. node	1889 Aug 31 14:41	28°♄05'21	
	1888 Sep 29 04:55	0°♄			1889 Sep 01 20:53	0°♄	
evening max el	1888 Oct 08 17:02	10°♄55'21	25°14'21	evening max el	1889 Sep 21 04:57	24°♄34'08	26°19'18
retrograde	1888 Oct 20 15:30	17°♄49'03			1889 Sep 28 03:10	0°♄	
evening set	1888 Oct 26 10:24	15°♄24'13		retrograde	1889 Oct 03 22:32	1°♄45'14	
min. Earth dist.	1888 Oct 30 22:20	10°♄23'30	0.67203 AU		1889 Oct 09 04:01	30°♄	
inferior conj	1888 Oct 31 23:48	9°♄00'36	0°-27'-42	evening set	1889 Oct 10 07:21	29°♄07'59	
minimum elong	1888 Nov 01 00:30	8°♄58'19	0°27'26	min. Earth dist.	1889 Oct 14 11:43	24°♄43'37	0.66385 AU
asc. node	1888 Nov 02 07:58	7°♄17'31		inferior conj	1889 Oct 16 00:35	22°♄50'43	-1°-25'-25
morning rise	1888 Nov 06 15:16	3°♄00'23		minimum elong	1889 Oct 16 02:50	22°♄43'47	1°24'29
direct	1888 Nov 10 01:01	1°♄53'25		asc. node	1889 Oct 20 05:00	18°♄16'39	
morning max el	1888 Nov 17 07:39	6°♄00'17	19°33'50	morning rise	1889 Oct 21 23:28	17°♄00'37	
greatest brilliancy	1888 Nov 25 18:30	16°♄39'02	-0.6m	direct	1889 Oct 24 23:13	16°♄09'49	
	1888 Dec 04 17:51	0°♄		morning max el	1889 Oct 31 17:25	19°♄54'07	18°43'29
desc. node	1888 Dec 10 16:55	9°♄09'32			1889 Nov 08 13:33	0°♄	
morning set	1888 Dec 12 00:42	11°♄12'21		morning set	1889 Nov 21 17:32	20°♄30'45	
	1888 Dec 24 01:25	0°♄			1889 Nov 27 17:36	0°♄	
max. Earth dist.	1888 Dec 24 19:04	1°♄09'51	1.44447 AU	desc. node	1889 Nov 27 13:57	29°♄45'37	
				max. Earth dist.	1889 Dec 07 12:19	15°♄22'23	1.45089 AU
superior conj	1888 Dec 28 19:47	7°♄35'22	-1°-43'-18				
minimum elong	1888 Dec 28 11:51	7°♄03'33	1°42'41	superior conj	1889 Dec 08 00:03	16°♄08'30	-1°-5'-59
	1889 Jan 11 11:05	0°♄		minimum elong	1889 Dec 07 16:08	15°♄37'22	1°05'04
evening rise	1889 Jan 11 19:42	0°♄36'14			1889 Dec 16 18:54	0°♄	
asc. node	1889 Jan 29 07:16	27°♄53'12		evening rise	1889 Dec 23 16:37	11°♄00'59	
evening max el	1889 Jan 30 14:49	29°♄18'45	18°20'17		1890 Jan 04 14:45	0°♄	
	1889 Jan 31 07:52	0°♄		evening max el	1890 Jan 14 01:39	12°♄44'33	18°51'05
retrograde	1889 Feb 06 02:22	2°♄49'22		asc. node	1890 Jan 16 04:17	14°♄38'57	
evening set	1889 Feb 09 00:37	2°♄03'04		retrograde	1890 Jan 20 20:08	16°♄33'03	
	1889 Feb 11 19:49	30°♄		evening set	1890 Jan 24 00:16	15°♄35'13	
inferior conj	1889 Feb 15 01:14	26°♄36'07	3°42'48	inferior conj	1890 Jan 29 17:54	9°♄50'46	3°29'17
minimum elong	1889 Feb 15 00:32	26°♄38'07	3°42'46				
min. Earth dist.	1889 Feb 17 09:46	23°♄56'16	0.63859 AU				

minimum elong	1890 Jan 29 15:57	9°≈56'48	3°29'00	minimum elong	1891 Jan 13 15:07	23°☿27'02	3°02'58
min. Earth dist.	1890 Jan 31 10:59	7°≈43'51	0.65426 AU	min. Earth dist.	1891 Jan 14 20:17	21°☿51'10	0.66593 AU
morning rise	1890 Feb 04 06:32	3°≈38'54		morning rise	1891 Jan 19 00:54	17°☿04'09	
direct	1890 Feb 10 20:37	0°≈48'25		direct	1891 Jan 25 02:56	14°☿22'30	
desc. node	1890 Feb 23 13:08	8°≈05'14		morning max el	1891 Feb 06 08:34	21°☿39'17	25°39'58
morning max el	1890 Feb 23 23:31	8°≈31'06	26°49'59	desc. node	1891 Feb 10 10:10	26°☿05'40	
	1890 Mar 12 18:24	0°✠			1891 Feb 13 15:20	0°≈	
	1890 Mar 30 13:33	0°♀			1891 Mar 06 00:04	0°✠	
morning set	1890 Mar 31 18:52	2°♀18'59		morning set	1891 Mar 14 13:47	14°✠56'37	
max. Earth dist.	1890 Apr 05 04:24	10°♀55'44	1.34346 AU	max. Earth dist.	1891 Mar 18 09:27	22°✠04'05	1.35950 AU
					1891 Mar 22 11:27	0°♀	
superior conj	1890 Apr 09 08:02	19°♀25'10	0°-48'-42	superior conj	1891 Mar 24 01:05	3°♀07'32	-1°-15'-45
minimum elong	1890 Apr 09 10:30	19°♀37'57	0°48'15	minimum elong	1891 Mar 24 04:48	3°♀26'07	1°15'12
asc. node	1890 Apr 14 03:37	29°♀32'03		evening rise	1891 Apr 01 02:39	19°♀33'50	
	1890 Apr 14 08:55	0°♄		asc. node	1891 Apr 01 00:38	19°♀23'35	
evening rise	1890 Apr 16 20:44	5°♄13'24			1891 Apr 06 09:40	0°♄	
	1890 Apr 30 14:33	0°♂		evening max el	1891 Apr 18 20:46	18°♄21'22	20°01'21
evening max el	1890 May 06 12:33	7°♂02'53	21°17'48	retrograde	1891 Apr 29 03:37	23°♄19'31	
retrograde	1890 May 18 12:42	12°♂54'38		evening set	1891 May 01 04:22	23°♄08'45	
evening set	1890 May 20 20:38	12°♂42'08		desc. node	1891 May 09 09:23	19°♄35'36	
desc. node	1890 May 22 12:22	12°♂18'57		inferior conj	1891 May 10 02:57	19°♄09'14	0°-12'-45
inferior conj	1890 May 30 05:29	8°♂43'03	-2°-12'-17	minimum elong	1891 May 10 02:22	19°♄10'07	0°12'34
minimum elong	1890 May 29 23:25	8°♂51'34	2°10'15	transit begin	1891 May 09 23:54	19°♄13'49	
min. Earth dist.	1890 May 30 12:28	8°♂33'14	0.54909 AU	transit end	1891 May 10 04:49	19°♄06'25	
morning rise	1890 Jun 08 02:19	4°♂44'21		min. Earth dist.	1891 May 12 01:58	17°♄58'33	0.55364 AU
direct	1890 Jun 11 09:46	4°♂20'34		morning rise	1891 May 18 21:36	14°♄45'40	
morning max el	1890 Jun 24 01:30	10°♂21'10	22°20'05	direct	1891 May 22 23:48	14°♄09'00	
	1890 Jul 08 06:09	0°♄		morning max el	1891 Jun 05 17:36	20°♄56'32	24°01'47
asc. node	1890 Jul 11 02:51	5°♄21'43			1891 Jun 13 12:22	0°♂	
morning set	1890 Jul 15 17:15	14°♄39'53		asc. node	1891 Jun 27 23:54	25°♂00'49	
superior conj	1890 Jul 22 22:38	29°♄59'37	1°36'56	morning set	1891 Jun 30 05:00	29°♂36'29	
minimum elong	1890 Jul 22 20:44	29°♄49'35	1°36'47		1891 Jun 30 09:28	0°♄	
	1890 Jul 22 22:43	0°♁		superior conj	1891 Jul 07 06:20	14°♄48'35	1°24'00
max. Earth dist.	1890 Jul 26 04:22	6°♁45'34	1.34341 AU	minimum elong	1891 Jul 07 03:58	14°♄35'46	1°23'42
evening rise	1890 Jul 30 22:22	16°♁17'14		max. Earth dist.	1891 Jul 09 06:08	19°♄05'40	1.33242 AU
	1890 Aug 07 08:11	0°♃			1891 Jul 14 11:39	0°♁	
desc. node	1890 Aug 18 11:42	17°♃58'29		evening rise	1891 Jul 14 16:54	0°♁26'32	
	1890 Aug 27 08:43	0°♂			1891 Jul 31 08:18	0°♃	
evening max el	1890 Sep 03 17:09	8°♂05'39	27°05'24	desc. node	1891 Aug 05 08:44	7°♃19'40	
retrograde	1890 Sep 17 00:05	15°♂23'39		evening max el	1891 Aug 17 04:25	21°♃18'35	27°25'31
evening set	1890 Sep 23 20:39	12°♂40'51		retrograde	1891 Aug 30 19:30	28°♃36'10	
min. Earth dist.	1890 Sep 27 18:07	8°♂53'10	0.65217 AU	evening set	1891 Sep 06 23:24	25°♃57'36	
inferior conj	1890 Sep 29 19:11	6°♂34'28	-2°-23'-45	min. Earth dist.	1891 Sep 10 15:25	22°♃44'04	0.63701 AU
minimum elong	1890 Sep 29 23:00	6°♂23'39	2°22'19	inferior conj	1891 Sep 13 05:07	20°♃06'25	-3°-19'-57
morning rise	1890 Oct 06 03:02	0°♂57'34		minimum elong	1891 Sep 13 10:08	19°♃53'33	3°18'23
asc. node	1890 Oct 07 02:02	0°♂34'58		morning rise	1891 Sep 19 23:06	14°♃46'09	
direct	1890 Oct 08 19:13	0°♂19'01		direct	1891 Sep 22 10:23	14°♃16'12	
morning max el	1890 Oct 15 07:43	3°♂49'52	18°09'37	asc. node	1891 Sep 23 23:05	14°♃27'52	
	1890 Nov 01 21:00	0°♆		morning max el	1891 Sep 28 23:52	17°♃41'50	17°53'08
morning set	1890 Nov 02 15:29	1°♆16'15			1891 Oct 07 20:42	0°♂	
desc. node	1890 Nov 14 10:58	20°♆28'38		morning set	1891 Oct 15 15:50	13°♂18'34	
					1891 Oct 25 10:59	0°♆	
superior conj	1890 Nov 17 03:54	24°♆47'06	0°-18'-4	superior conj	1891 Oct 28 03:05	4°♆25'08	0°28'15
minimum elong	1890 Nov 17 01:36	24°♆37'57	0°17'46	minimum elong	1891 Oct 28 06:01	4°♆37'13	0°27'50
max. Earth dist.	1890 Nov 20 07:07	29°♆44'16	1.44997 AU	desc. node	1891 Nov 01 08:01	11°♆15'30	
	1890 Nov 20 11:07	0°♄		max. Earth dist.	1891 Nov 03 00:55	13°♆59'26	1.44188 AU
evening rise	1890 Dec 03 15:10	20°♄33'02		evening rise	1891 Nov 13 00:26	29°♆37'32	
	1890 Dec 09 17:35	0°☿			1891 Nov 13 06:16	0°♄	
greatest brilliancy	1890 Dec 20 10:56	16°☿09'33	-0.7m		1891 Dec 03 12:54	0°☿	
evening max el	1890 Dec 28 08:43	26°☿13'23	19°38'33	greatest brilliancy	1891 Dec 05 15:39	2°☿50'18	-0.5m
	1891 Jan 02 09:42	0°≈		evening max el	1891 Dec 11 10:37	9°☿43'35	20°40'16
asc. node	1891 Jan 03 01:19	0°≈13'47		retrograde	1891 Dec 19 14:55	14°☿33'26	
retrograde	1891 Jan 04 17:06	0°≈28'56		asc. node	1891 Dec 20 22:21	14°☿23'51	
	1891 Jan 06 22:33	30°☿		evening set	1891 Dec 23 11:37	13°☿07'48	
evening set	1891 Jan 08 04:38	29°☿18'01					
inferior conj	1891 Jan 13 17:41	23°☿18'39	3°03'33				

inferior conj	1891 Dec 28 22:03	6°☿56'17	2°28'29	evening max el	1892 Nov 23 06:51	23°♁14'47	21°52'58
minimum elong	1891 Dec 28 19:28	7°☿05'08	2°27'41	retrograde	1892 Dec 02 11:44	28°♁43'27	
min. Earth dist.	1891 Dec 29 11:40	6°☿09'50	0.67365 AU	evening set	1892 Dec 06 19:26	27°♁01'37	
morning rise	1892 Jan 03 02:52	0°☿41'08		asc. node	1892 Dec 06 19:22	27°♁01'44	
	1892 Jan 03 22:49	30°♁		inferior conj	1892 Dec 12 04:55	20°♁41'25	1°46'01
direct	1892 Jan 08 14:20	28°♁17'04		minimum elong	1892 Dec 12 02:46	20°♁48'52	1°45'13
	1892 Jan 13 19:06	0°☿		min. Earth dist.	1892 Dec 12 06:55	20°♁34'29	0.67758 AU
morning max el	1892 Jan 19 16:53	4°☿54'28	24°15'39	morning rise	1892 Dec 17 09:54	14°♁27'23	
desc. node	1892 Jan 28 07:13	14°☿58'40		direct	1892 Dec 22 06:05	12°♁25'22	
	1892 Feb 08 00:54	0°♁		morning max el	1893 Jan 01 02:52	18°♁15'53	22°47'12
morning set	1892 Feb 24 12:03	26°♁29'28		greatest brilliancy	1893 Jan 05 18:10	23°♁26'22	-0.3m
	1892 Feb 26 12:04	0°♁			1893 Jan 10 21:26	0°☿	
max. Earth dist.	1892 Feb 28 06:08	3°♁07'47	1.37936 AU	desc. node	1893 Jan 14 04:17	4°☿29'27	
					1893 Jan 31 04:17	0°♁	
superior conj	1892 Mar 06 06:35	16°♁11'16	-1°-39'-46	morning set	1893 Feb 04 07:41	6°♁43'21	
minimum elong	1892 Mar 06 10:51	16°♁31'46	1°39'18	max. Earth dist.	1893 Feb 09 01:53	14°♁42'57	1.40089 AU
	1892 Mar 13 07:51	0°♁					
evening rise	1892 Mar 15 02:13	3°♁29'34		superior conj	1893 Feb 16 20:11	28°♁25'56	-1°-57'-33
asc. node	1892 Mar 17 21:41	8°♁59'24		minimum elong	1893 Feb 16 23:32	28°♁41'14	1°57'22
	1892 Mar 31 08:47	0°♁			1893 Feb 17 16:46	0°♁	
evening max el	1892 Mar 31 16:10	0°♁18'11	19°03'47	evening rise	1893 Feb 26 16:28	16°♁53'31	
retrograde	1892 Apr 09 08:04	4°♁30'10		asc. node	1893 Mar 04 18:44	28°♁14'00	
evening set	1892 Apr 11 11:38	4°♁15'45			1893 Mar 05 18:46	0°♁	
inferior conj	1892 Apr 19 15:57	0°♁01'56	1°33'14	evening max el	1893 Mar 14 20:23	12°♁48'51	18°26'18
minimum elong	1892 Apr 19 19:19	29°♁56'05	1°32'09	retrograde	1893 Mar 22 07:30	16°♁29'46	
	1892 Apr 19 17:04	30°♁		evening set	1893 Mar 24 16:26	16°♁08'31	
min. Earth dist.	1892 Apr 22 17:18	27°♁55'47	0.56684 AU	inferior conj	1893 Apr 01 02:06	11°♁34'41	2°47'20
desc. node	1892 Apr 25 06:25	26°♁21'34		minimum elong	1893 Apr 01 05:58	11°♁26'49	2°46'26
morning rise	1892 Apr 27 22:51	25°♁04'17		min. Earth dist.	1893 Apr 04 12:37	8°♁48'37	0.58591 AU
direct	1892 May 03 01:43	24°♁02'45		morning rise	1893 Apr 08 15:25	6°♁06'18	
	1892 May 15 19:45	0°♁		desc. node	1893 Apr 12 03:26	4°♁47'14	
morning max el	1892 May 17 08:07	1°♁23'46	25°38'59	direct	1893 Apr 14 17:28	4°♁29'43	
	1892 Jun 06 09:19	0°♁		morning max el	1893 Apr 29 02:37	12°♁11'32	26°55'54
morning set	1892 Jun 13 16:40	14°♁32'12			1893 May 13 01:20	0°♁	
asc. node	1892 Jun 13 20:58	14°♁54'51		morning set	1893 May 29 02:36	29°♁21'21	
					1893 May 29 09:58	0°♁	
superior conj	1892 Jun 20 17:00	29°♁44'44	1°06'36	asc. node	1893 May 31 18:02	4°♁58'36	
minimum elong	1892 Jun 20 14:40	29°♁31'57	1°06'12				
	1892 Jun 20 19:47	0°♁		superior conj	1893 Jun 05 04:46	14°♁41'55	0°45'29
max. Earth dist.	1892 Jun 21 14:49	1°♁44'09	1.32534 AU	minimum elong	1893 Jun 05 02:56	14°♁31'47	0°45'08
evening rise	1892 Jun 27 19:21	14°♁58'09		max. Earth dist.	1893 Jun 05 02:48	14°♁31'05	1.32206 AU
	1892 Jul 05 12:05	0°♁		evening rise	1893 Jun 12 03:01	29°♁43'26	
desc. node	1892 Jul 22 05:46	25°♁54'54			1893 Jun 12 06:10	0°♁	
	1892 Jul 25 16:07	0°♁			1893 Jun 28 18:24	0°♁	
evening max el	1892 Jul 29 12:02	3°♁58'14	27°14'25	desc. node	1893 Jul 09 02:46	13°♁25'14	
retrograde	1892 Aug 12 08:03	11°♁13'10		evening max el	1893 Jul 11 13:27	15°♁53'44	26°30'13
evening set	1892 Aug 19 11:46	8°♁51'15		retrograde	1893 Jul 25 12:56	23°♁06'20	
min. Earth dist.	1892 Aug 23 02:10	6°♁04'04	0.61866 AU	evening set	1893 Aug 01 05:07	21°♁14'14	
inferior conj	1892 Aug 26 03:17	3°♁18'29	-4°-9'-40	min. Earth dist.	1893 Aug 05 02:43	18°♁38'41	0.59822 AU
minimum elong	1892 Aug 26 08:31	3°♁06'35	4°08'31	inferior conj	1893 Aug 08 10:10	16°♁01'40	-4°-45'-49
	1892 Aug 30 03:01	30°♁		minimum elong	1893 Aug 08 13:42	15°♁54'37	4°45'27
morning rise	1892 Sep 02 08:03	28°♁18'29		morning rise	1893 Aug 16 01:39	11°♁24'32	
direct	1892 Sep 04 17:12	27°♁54'10		direct	1893 Aug 18 11:23	11°♁03'35	
asc. node	1892 Sep 09 20:09	29°♁50'19		morning max el	1893 Aug 26 01:42	14°♁44'40	18°16'16
	1892 Sep 10 01:14	0°♁		asc. node	1893 Aug 27 17:14	16°♁28'47	
morning max el	1892 Sep 11 14:53	1°♁22'44	17°55'00		1893 Sep 05 14:14	0°♁	
morning set	1892 Sep 27 12:14	26°♁18'11		morning set	1893 Sep 10 23:03	9°♁59'04	
	1892 Sep 29 13:08	0°♁					
superior conj	1892 Oct 08 05:23	15°♁23'29	1°04'41	superior conj	1893 Sep 20 08:29	27°♁34'56	1°28'59
minimum elong	1892 Oct 08 09:59	15°♁43'19	1°04'07	minimum elong	1893 Sep 20 12:09	27°♁51'34	1°28'40
max. Earth dist.	1892 Oct 15 14:39	27°♁49'02	1.42757 AU		1893 Sep 21 16:32	0°♁	
	1892 Oct 16 22:44	0°♁		max. Earth dist.	1893 Sep 27 22:32	10°♁57'24	1.40895 AU
desc. node	1892 Oct 18 05:05	2°♁02'50		evening rise	1893 Oct 02 18:25	19°♁01'15	
evening rise	1892 Oct 22 12:33	8°♁54'26		desc. node	1893 Oct 05 02:06	22°♁46'50	
	1892 Nov 05 11:18	0°♁			1893 Oct 09 16:00	0°♁	
greatest brilliancy	1892 Nov 18 12:18	17°♁49'31	-0.4m	greatest brilliancy	1893 Oct 29 22:54	28°♁48'41	-0.2m
					1893 Oct 30 21:51	0°♁	

evening max el	1893 Nov 05 22:15	6°♌47'43	23°12'05	desc. node	1894 Sep 21 23:07	13°♋24'06	
retrograde	1893 Nov 16 06:00	12°♌54'54			1894 Oct 03 00:17	0°♌	
evening set	1893 Nov 21 02:24	10°♌56'02		evening max el	1894 Oct 19 10:57	20°♌24'58	24°31'24
asc. node	1893 Nov 23 16:26	8°♌15'40		retrograde	1894 Oct 30 20:29	27°♌04'27	
min. Earth dist.	1893 Nov 26 03:40	5°♌01'02	0.67802 AU	evening set	1894 Nov 05 06:53	24°♌48'50	
inferior conj	1893 Nov 26 12:23	4°♌31'03	0°57'35	min. Earth dist.	1894 Nov 09 23:30	19°♌27'31	0.67520 AU
minimum elong	1893 Nov 26 11:04	4°♌35'32	0°57'02	inferior conj	1894 Nov 10 18:41	18°♌23'23	0°04'29
	1893 Nov 30 01:29	30°♌		minimum elong	1894 Nov 10 18:35	18°♌23'45	0°04'26
morning rise	1893 Dec 01 19:49	28°♌20'16		transit begin	1894 Nov 10 15:56	18°♌32'35	
direct	1893 Dec 06 01:23	26°♌41'05		transit end	1894 Nov 10 21:13	18°♌14'56	
	1893 Dec 12 21:01	0°♌		asc. node	1894 Nov 10 13:29	18°♌40'50	
morning max el	1893 Dec 14 17:49	1°♌45'19	21°23'07	morning rise	1894 Nov 16 06:39	12°♌18'17	
greatest brilliancy	1893 Dec 19 20:52	7°♌36'49	-0.4m	direct	1894 Nov 19 23:07	11°♌00'19	
desc. node	1894 Jan 01 01:19	24°♌26'54		morning max el	1894 Nov 27 16:08	15°♌25'18	20°09'37
	1894 Jan 04 19:08	0°♍		greatest brilliancy	1894 Dec 04 12:34	23°♌41'06	-0.6m
morning set	1894 Jan 14 22:27	15°♍35'54			1894 Dec 09 00:50	0°♌	
max. Earth dist.	1894 Jan 22 02:45	27°♍09'46	1.42124 AU	desc. node	1894 Dec 18 22:21	14°♌43'41	
	1894 Jan 23 19:55	0°♎		morning set	1894 Dec 24 19:13	23°♌43'34	
					1894 Dec 28 20:04	0°♍	
superior conj	1894 Jan 29 12:37	9°♎38'53	-2°-4'-50	max. Earth dist.	1895 Jan 04 11:13	10°♍29'15	1.43771 AU
minimum elong	1894 Jan 29 12:41	9°♎39'08	2°04'50				
evening rise	1894 Feb 09 17:38	29°♎36'44		superior conj	1895 Jan 10 03:25	19°♍40'57	-1°-56'-36
	1894 Feb 09 22:45	0°♏		minimum elong	1895 Jan 09 22:07	19°♍19'14	1°56'20
asc. node	1894 Feb 19 15:46	17°♏00'06			1895 Jan 16 08:07	0°♎	
evening max el	1894 Feb 26 06:15	25°♏45'04	18°08'50	evening rise	1895 Jan 23 01:27	11°♎30'43	
retrograde	1894 Mar 05 00:07	29°♏10'47			1895 Feb 03 00:07	0°♏	
evening set	1894 Mar 07 14:23	28°♏40'43		asc. node	1895 Feb 06 12:47	5°♏08'48	
inferior conj	1894 Mar 14 08:23	23°♏45'45	3°28'36	evening max el	1895 Feb 09 18:41	8°♏58'21	18°10'46
minimum elong	1894 Mar 14 10:41	23°♏40'21	3°28'18	retrograde	1895 Feb 16 05:47	12°♏23'13	
min. Earth dist.	1894 Mar 17 14:21	20°♏43'47	0.60733 AU	evening set	1895 Feb 19 01:07	11°♏43'04	
morning rise	1894 Mar 21 03:49	17°♏56'30		inferior conj	1895 Feb 25 07:07	6°♏27'29	3°43'27
direct	1894 Mar 27 21:14	15°♏44'12		minimum elong	1895 Feb 25 07:24	6°♏26'42	3°43'26
desc. node	1894 Mar 30 00:28	15°♏56'50		min. Earth dist.	1895 Feb 28 00:29	3°♏34'04	0.62800 AU
morning max el	1894 Apr 11 03:17	23°♏37'06	27°40'30	morning rise	1895 Mar 03 11:35	0°♏25'51	
	1894 Apr 16 20:55	0°♐			1895 Mar 04 01:47	30°♎	
	1894 May 06 05:57	0°♑		direct	1895 Mar 10 10:20	27°♎47'32	
morning set	1894 May 13 09:00	13°♑57'52		desc. node	1895 Mar 16 21:30	29°♎44'17	
asc. node	1894 May 18 15:05	25°♑07'27			1895 Mar 17 08:17	0°♏	
max. Earth dist.	1894 May 19 14:22	27°♑14'16	1.32264 AU	morning max el	1895 Mar 24 09:17	5°♏43'11	27°47'53
					1895 Apr 11 18:03	0°♐	
superior conj	1894 May 20 15:59	29°♑34'24	0°21'24	morning set	1895 Apr 27 09:37	28°♐13'57	
minimum elong	1894 May 20 15:01	29°♑29'08	0°21'12		1895 Apr 28 06:33	0°♑	
	1894 May 20 20:39	0°♒		max. Earth dist.	1895 May 02 21:36	9°♑40'16	1.32731 AU
evening rise	1894 May 27 13:45	14°♒35'20					
	1894 Jun 04 07:10	0°♓		superior conj	1895 May 05 00:50	14°♑15'45	0°-4'-57
evening max el	1894 Jun 23 07:53	27°♓03'34	25°16'46	minimum elong	1895 May 05 01:04	14°♑17'02	0°04'55
desc. node	1894 Jun 25 23:45	29°♓24'20		behind sun begin	1895 May 04 20:05	13°♑50'04	
	1894 Jun 26 18:01	0°♈		behind sun end	1895 May 05 06:03	14°♑44'01	
retrograde	1894 Jul 07 08:10	4°♈11'17		asc. node	1895 May 05 12:06	15°♑16'45	
evening set	1894 Jul 12 23:19	2°♈57'46		evening rise	1895 May 12 01:34	29°♑26'42	
min. Earth dist.	1894 Jul 17 19:44	0°♈15'04	0.57792 AU		1895 May 12 07:52	0°♒	
	1894 Jul 18 04:46	30°♓			1895 May 29 07:12	0°♓	
inferior conj	1894 Jul 20 22:25	28°♓06'54	-4°-57'-16	evening max el	1895 Jun 04 21:54	7°♓39'52	23°44'35
minimum elong	1894 Jul 20 21:44	28°♓08'04	4°57'16	desc. node	1895 Jun 12 20:46	13°♓17'07	
morning rise	1894 Jul 28 23:54	23°♓52'23		retrograde	1895 Jun 18 14:55	14°♓32'17	
direct	1894 Jul 31 12:36	23°♓33'08		evening set	1895 Jun 22 19:16	13°♓53'52	
morning max el	1894 Aug 09 05:05	27°♓38'16	18°58'14	min. Earth dist.	1895 Jun 29 08:27	10°♓48'15	0.56104 AU
	1894 Aug 11 10:47	0°♉		inferior conj	1895 Jul 01 14:24	9°♓26'43	-4°-29'-44
asc. node	1894 Aug 14 14:18	4°♉08'06		minimum elong	1895 Jul 01 08:26	9°♓35'47	4°28'47
morning set	1894 Aug 25 20:03	24°♉10'14		morning rise	1895 Jul 10 01:01	5°♓29'41	
	1894 Aug 28 18:53	0°♊		direct	1895 Jul 12 18:45	5°♓10'42	
				morning max el	1895 Jul 22 22:07	9°♓52'46	20°01'37
superior conj	1894 Sep 03 06:56	10°♊44'15	1°42'04	asc. node	1895 Aug 01 11:21	22°♓33'34	
minimum elong	1894 Sep 03 08:43	10°♊52'48	1°41'59		1895 Aug 05 14:20	0°♈	
max. Earth dist.	1894 Sep 10 02:26	23°♊23'03	1.38852 AU	morning set	1895 Aug 09 23:59	8°♈41'59	
	1894 Sep 13 20:43	0°♉					
evening rise	1894 Sep 14 00:26	0°♉16'03		superior conj	1895 Aug 17 19:23	24°♈35'11	1°45'49

minimum elong	1895 Aug 17 19:22	24°♄35'04	1°45'49	minimum elong	1896 Jul 31 16:19	8°♄48'47	1°41'55
	1895 Aug 20 13:00	0°♄		max. Earth dist.	1896 Aug 04 18:51	17°♄12'20	1.35161 AU
max. Earth dist.	1895 Aug 23 07:23	5°♄19'53	1.36875 AU	evening rise	1896 Aug 09 03:44	25°♄44'46	
evening rise	1895 Aug 27 04:59	12°♄34'15			1896 Aug 11 10:12	0°♄	
	1895 Sep 06 10:06	0°♄		desc. node	1896 Aug 25 17:09	23°♄56'11	
desc. node	1895 Sep 08 20:08	3°♄49'13			1896 Aug 29 20:42	0°♄	
	1895 Sep 28 01:50	0°♄		evening max el	1896 Sep 13 11:13	17°♄42'20	26°41'38
evening max el	1895 Oct 01 22:59	4°♄05'09	25°43'49	retrograde	1896 Sep 26 10:48	24°♄56'37	
retrograde	1895 Oct 14 06:15	11°♄07'02		evening set	1896 Oct 03 01:08	22°♄16'01	
evening set	1895 Oct 20 07:08	8°♄36'39		min. Earth dist.	1896 Oct 07 02:32	18°♄07'29	0.65937 AU
min. Earth dist.	1895 Oct 24 15:56	3°♄51'02	0.66903 AU	inferior conj	1896 Oct 08 20:28	16°♄03'09	-1°-50'-12
inferior conj	1895 Oct 25 22:02	2°♄15'18	0°-51'-57	minimum elong	1896 Oct 08 23:24	15°♄54'25	1°49'02
minimum elong	1895 Oct 25 23:23	2°♄11'00	0°51'23	asc. node	1896 Oct 14 07:34	10°♄40'46	
	1895 Oct 27 17:42	30°♄		morning rise	1896 Oct 14 22:59	10°♄18'20	
asc. node	1895 Oct 28 10:31	29°♄11'37		direct	1896 Oct 17 19:20	9°♄33'05	
morning rise	1895 Oct 31 16:26	26°♄18'46		morning max el	1896 Oct 24 10:06	13°♄10'11	18°27'03
direct	1895 Nov 03 21:44	25°♄18'58			1896 Nov 05 12:19	0°♄	
morning max el	1895 Nov 10 22:05	29°♄14'52	19°10'22	morning set	1896 Nov 13 03:47	12°♄15'54	
	1895 Nov 11 15:27	0°♄		desc. node	1896 Nov 21 16:26	25°♄53'50	
	1895 Dec 02 10:44	0°♄			1896 Nov 24 06:38	0°♄	
morning set	1895 Dec 03 22:41	2°♄19'57		superior conj	1896 Nov 28 18:36	7°♄05'15	0°-46'-13
desc. node	1895 Dec 05 19:24	5°♄14'11		minimum elong	1896 Nov 28 12:40	6°♄41'58	0°45'28
max. Earth dist.	1895 Dec 18 02:33	24°♄29'37	1.44817 AU	max. Earth dist.	1896 Nov 29 21:32	8°♄51'02	1.45145 AU
					1896 Dec 13 08:38	0°♄	
superior conj	1895 Dec 20 17:17	28°♄37'34	-1°-29'-27	evening rise	1896 Dec 14 22:51	2°♄30'40	
minimum elong	1895 Dec 20 08:29	28°♄02'42	1°28'36	greatest brilliancy	1896 Dec 27 08:21	21°♄55'41	-0.7m
	1895 Dec 21 14:04	0°♄			1897 Jan 01 21:22	0°♄	
evening rise	1896 Jan 04 11:51	22°♄29'08		evening max el	1897 Jan 06 16:18	5°♄49'14	19°09'17
	1896 Jan 09 01:17	0°♄		asc. node	1897 Jan 10 06:50	8°♄46'52	
evening max el	1896 Jan 24 06:51	22°♄21'39	18°31'17	retrograde	1897 Jan 13 15:48	9°♄48'11	
asc. node	1896 Jan 24 09:47	22°♄29'04		evening set	1897 Jan 16 22:57	8°♄44'49	
retrograde	1896 Jan 30 20:14	25°♄58'15		inferior conj	1897 Jan 22 14:20	2°♄53'25	3°19'39
evening set	1896 Feb 02 20:59	25°♄07'01		minimum elong	1897 Jan 22 12:03	3°♄00'40	3°19'14
inferior conj	1896 Feb 08 18:17	19°♄32'22	3°38'44	min. Earth dist.	1897 Jan 24 00:58	1°♄03'10	0.65974 AU
minimum elong	1896 Feb 08 16:58	19°♄36'14	3°38'38		1897 Jan 24 21:23	30°♄	
min. Earth dist.	1896 Feb 10 20:10	17°♄05'32	0.64578 AU	morning rise	1897 Jan 28 00:17	26°♄40'12	
morning rise	1896 Feb 14 11:38	13°♄23'27		direct	1897 Feb 03 09:34	23°♄52'33	
direct	1896 Feb 21 06:44	10°♄33'33			1897 Feb 14 17:07	0°♄	
desc. node	1896 Mar 02 18:32	15°♄35'55		morning max el	1897 Feb 16 04:17	1°♄25'34	26°22'38
morning max el	1896 Mar 05 18:27	18°♄23'26	27°19'52	desc. node	1897 Feb 17 15:36	2°♄57'14	
	1896 Mar 15 13:39	0°♄			1897 Mar 09 15:30	0°♄	
	1896 Apr 03 15:52	0°♄		morning set	1897 Mar 24 05:49	25°♄08'12	
morning set	1896 Apr 10 01:48	12°♄01'23			1897 Mar 26 19:08	0°♄	
max. Earth dist.	1896 Apr 14 20:51	21°♄38'54	1.33632 AU	max. Earth dist.	1897 Mar 28 08:57	3°♄04'05	1.34982 AU
				superior conj	1897 Apr 02 03:30	12°♄39'30	-1°00'-24
superior conj	1896 Apr 18 05:27	28°♄40'03	0°-32'-37	minimum elong	1897 Apr 02 06:32	12°♄55'03	0°59'52
minimum elong	1896 Apr 18 07:05	28°♄48'43	0°32'18	asc. node	1897 Apr 08 06:09	25°♄20'40	
	1896 Apr 18 20:33	0°♄		evening rise	1897 Apr 09 21:07	28°♄42'36	
asc. node	1896 Apr 21 09:07	5°♄22'47			1897 Apr 10 12:11	0°♄	
evening rise	1896 Apr 25 12:42	14°♄11'34		evening max el	1897 Apr 28 15:22	29°♄06'44	20°43'00
	1896 May 03 13:39	0°♄			1897 Apr 29 14:16	0°♄	
evening max el	1896 May 16 14:08	18°♄11'19	22°08'53	retrograde	1897 May 09 22:30	4°♄36'15	
retrograde	1896 May 29 09:22	24°♄30'24		evening set	1897 May 12 01:33	4°♄25'20	
desc. node	1896 May 29 17:45	24°♄30'07		desc. node	1897 May 16 14:46	2°♄57'22	
evening set	1896 Jun 01 05:38	24°♄12'28		inferior conj	1897 May 21 07:31	0°♄27'39	-1°-21'-53
min. Earth dist.	1896 Jun 09 19:54	20°♄31'16	0.55092 AU	minimum elong	1897 May 21 03:38	0°♄33'12	1°20'29
inferior conj	1896 Jun 10 13:43	20°♄06'15	-3°-14'-14		1897 May 22 02:49	30°♄	
minimum elong	1896 Jun 10 05:57	20°♄17'10	3°12'00	min. Earth dist.	1897 May 22 08:21	29°♄52'05	0.54986 AU
morning rise	1896 Jun 19 08:06	16°♄14'06		morning rise	1897 May 30 04:39	26°♄20'34	
direct	1896 Jun 22 09:10	15°♄53'22		direct	1897 Jun 02 18:48	25°♄52'50	
morning max el	1896 Jul 04 03:41	21°♄23'14	21°25'03		1897 Jun 13 08:29	0°♄	
	1896 Jul 11 09:20	0°♄		morning max el	1897 Jun 15 23:31	2°♄14'11	23°03'06
asc. node	1896 Jul 18 08:23	11°♄34'21			1897 Jul 04 17:01	0°♄	
morning set	1896 Jul 24 08:26	23°♄27'45		asc. node	1897 Jul 05 05:26	1°♄01'23	
	1896 Jul 27 11:27	0°♄		morning set	1897 Jul 08 19:28	8°♄21'46	
superior conj	1896 Jul 31 17:42	8°♄55'55	1°42'00				

superior conj	1897 Jul 15 22:42	23°☿36'51	1°32'03	morning set	1898 Jun 23 07:20	23°♁18'20	
minimum elong	1897 Jul 15 20:32	23°☿25'17	1°31'50		1898 Jun 26 10:19	0°☿	
max. Earth dist.	1897 Jul 18 15:20	29°☿19'07	1.33818 AU				
	1897 Jul 18 23:09	0°♁		superior conj	1898 Jun 30 07:53	8°☿29'37	1°17'07
evening rise	1897 Jul 23 16:08	9°♁35'29		minimum elong	1898 Jun 30 05:28	8°☿16'29	1°16'46
	1897 Aug 03 20:14	0°♁		max. Earth dist.	1898 Jul 01 20:07	11°☿46'18	1.32883 AU
desc. node	1897 Aug 12 14:09	13°♁37'07		evening rise	1898 Jul 07 14:22	23°☿55'05	
	1897 Aug 25 19:45	0°♁			1898 Jul 10 15:25	0°♁	
evening max el	1897 Aug 26 23:04	1°♁06'53	27°17'29		1898 Jul 28 12:13	0°♁	
retrograde	1897 Sep 09 09:50	8°♁25'39		desc. node	1898 Jul 30 11:10	2°♁40'40	
evening set	1897 Sep 16 10:24	5°♁42'52		evening max el	1898 Aug 09 08:54	14°♁06'29	27°24'56
min. Earth dist.	1897 Sep 20 05:09	2°♁10'40	0.64611 AU	retrograde	1898 Aug 23 02:45	21°♁24'05	
	1897 Sep 22 05:20	30°♁		evening set	1898 Aug 30 07:36	18°♁50'46	
inferior conj	1897 Sep 22 11:43	29°♁42'36	-2°-48'-3	min. Earth dist.	1898 Sep 02 22:04	15°♁49'51	0.62943 AU
minimum elong	1897 Sep 22 16:08	29°♁30'38	2°46'31	inferior conj	1898 Sep 05 17:02	13°♁06'49	-3°-42'-13
morning rise	1897 Sep 28 23:47	24°♁12'42		minimum elong	1898 Sep 05 22:19	12°♁53'55	3°40'46
asc. node	1897 Oct 01 04:38	23°♁38'59		morning rise	1898 Sep 12 15:36	7°♁54'59	
direct	1897 Oct 01 13:34	23°♁38'16		direct	1898 Sep 15 01:30	7°♁27'54	
morning max el	1897 Oct 08 01:39	27°♁05'46	18°00'33	asc. node	1898 Sep 18 01:42	8°♁10'59	
	1897 Oct 10 14:55	0°♁		morning max el	1898 Sep 21 17:44	10°♁54'03	17°51'40
morning set	1897 Oct 25 13:41	23°♁36'36			1898 Oct 04 12:28	0°♁	
	1897 Oct 29 09:09	0°♁		morning set	1898 Oct 07 23:18	6°♁05'02	
superior conj	1897 Nov 08 04:58	16°♁05'05	0°02'25	superior conj	1898 Oct 19 15:28	26°♁16'47	0°45'08
minimum elong	1897 Nov 08 05:15	16°♁06'15	0°02'21	minimum elong	1898 Oct 19 19:33	26°♁33'51	0°44'35
behind sun begin	1897 Nov 07 18:52	15°♁24'31			1898 Oct 21 21:05	0°♁	
behind sun end	1897 Nov 08 15:38	16°♁47'55		max. Earth dist.	1898 Oct 26 08:05	7°♁16'49	1.43638 AU
desc. node	1897 Nov 08 13:29	16°♁39'17		desc. node	1898 Oct 26 10:31	7°♁26'37	
max. Earth dist.	1897 Nov 12 16:20	23°♁12'48	1.44731 AU	evening rise	1898 Nov 03 22:28	20°♁51'17	
	1897 Nov 16 23:55	0°♁			1898 Nov 09 21:58	0°♁	
evening rise	1897 Nov 24 14:16	11°♁47'35		greatest brilliancy	1898 Nov 28 15:18	26°♁44'43	-0.4m
	1897 Dec 06 12:55	0°♁			1898 Dec 01 07:08	0°♁	
greatest brilliancy	1897 Dec 14 00:31	10°♁50'45	-0.6m	evening max el	1898 Dec 03 20:43	2°♁49'20	21°10'05
evening max el	1897 Dec 20 21:15	19°♁18'52	20°03'06	retrograde	1898 Dec 12 11:14	7°♁55'43	
asc. node	1897 Dec 28 03:52	23°♁47'50		asc. node	1898 Dec 15 00:56	7°♁18'58	
retrograde	1897 Dec 28 13:34	23°♁48'44		evening set	1898 Dec 16 12:16	6°♁23'36	
evening set	1898 Jan 01 04:42	22°♁31'48		inferior conj	1898 Dec 21 22:07	0°♁07'58	2°11'20
inferior conj	1898 Jan 06 16:25	16°♁26'37	2°49'44	minimum elong	1898 Dec 21 19:39	0°♁16'27	2°10'29
minimum elong	1898 Jan 06 13:47	16°♁35'27	2°49'01		1898 Dec 22 00:26	30°♁	
min. Earth dist.	1898 Jan 07 13:16	15°♁16'40	0.66969 AU	min. Earth dist.	1898 Dec 22 06:43	29°♁38'19	0.67574 AU
morning rise	1898 Jan 11 22:15	10°♁11'22		morning rise	1898 Dec 27 02:40	23°♁52'48	
direct	1898 Jan 17 18:09	7°♁36'31		direct	1899 Jan 01 07:40	21°♁37'35	
morning max el	1898 Jan 29 13:10	14°♁38'35	25°05'12	morning max el	1899 Jan 11 21:44	27°♁56'05	23°37'54
desc. node	1898 Feb 04 12:40	21°♁22'40			1899 Jan 13 20:40	0°♁	
	1898 Feb 11 02:57	0°♁		desc. node	1899 Jan 22 09:44	10°♁33'23	
	1898 Mar 02 12:01	0°♁			1899 Feb 04 19:59	0°♁	
morning set	1898 Mar 06 16:45	7°♁20'43		morning set	1899 Feb 16 04:28	18°♁22'15	
max. Earth dist.	1898 Mar 10 09:46	14°♁06'30	1.36763 AU	max. Earth dist.	1899 Feb 20 04:36	25°♁17'47	1.38846 AU
					1899 Feb 22 19:59	0°♁	
superior conj	1898 Mar 16 16:05	26°♁06'24	-1°-26'-30	superior conj	1899 Feb 27 15:28	8°♁51'17	-1°-48'-18
minimum elong	1898 Mar 16 20:09	26°♁26'27	1°25'56	minimum elong	1899 Feb 27 19:35	9°♁10'39	1°47'56
	1898 Mar 18 15:12	0°♁		evening rise	1899 Mar 08 20:42	26°♁36'47	
evening rise	1898 Mar 25 00:41	12°♁53'20			1899 Mar 10 14:40	0°♁	
asc. node	1898 Mar 26 03:11	15°♁06'04		asc. node	1899 Mar 13 00:14	4°♁33'55	
	1898 Apr 03 03:35	0°♁		evening max el	1899 Mar 25 04:08	22°♁54'41	18°45'24
evening max el	1898 Apr 11 04:27	10°♁41'21	19°34'20	retrograde	1899 Apr 02 06:16	26°♁51'02	
retrograde	1898 Apr 20 18:09	15°♁18'35		evening set	1899 Apr 04 12:05	26°♁34'02	
evening set	1898 Apr 22 19:07	15°♁06'54		inferior conj	1899 Apr 12 08:17	22°♁12'29	2°08'54
inferior conj	1898 May 01 10:25	11°♁02'35	0°35'28	minimum elong	1899 Apr 12 12:15	22°♁05'08	2°07'45
minimum elong	1898 May 01 11:56	11°♁00'10	0°34'56	min. Earth dist.	1899 Apr 15 15:48	19°♁46'32	0.57446 AU
desc. node	1898 May 03 11:49	9°♁43'55		morning rise	1899 Apr 20 08:04	17°♁00'46	
min. Earth dist.	1898 May 03 22:47	9°♁26'48	0.55831 AU	desc. node	1899 Apr 20 08:52	16°♁59'53	
morning rise	1898 May 10 01:03	6°♁24'20		direct	1899 Apr 25 21:41	15°♁44'44	
direct	1898 May 14 13:11	5°♁38'41		morning max el	1899 May 10 05:58	23°♁16'26	26°14'56
morning max el	1898 May 28 14:20	12°♁43'04	24°44'43		1899 May 16 06:45	0°♁	
	1898 Jun 10 22:29	0°♁			1899 Jun 03 18:10	0°♁	
asc. node	1898 Jun 22 02:29	20°♁47'18					

morning set	1899 Jun 07 18:28	8°♁12'17		1900 Apr 17 01:05	0°♁		
asc. node	1899 Jun 08 23:32	10°♁46'19		morning max el	1900 Apr 22 02:47	4°♁18'18	27°19'14
					1900 May 11 00:14	0°♁	
superior conj	1899 Jun 14 19:16	23°♁27'35	0°58'04	morning set	1900 May 23 03:07	22°♁56'41	
minimum elong	1899 Jun 14 17:05	23°♁15'37	0°57'40		1900 May 26 10:51	0°♁	
max. Earth dist.	1899 Jun 15 06:36	24°♁29'54	1.32347 AU	asc. node	1900 May 26 20:34	0°♁52'33	
	1899 Jun 17 18:58	0°♁		max. Earth dist.	1900 May 29 18:59	7°♁17'21	1.32192 AU
evening rise	1899 Jun 21 19:22	8°♁34'13					
	1899 Jul 03 01:01	0°♁		superior conj	1900 May 30 06:59	8°♁23'21	0°35'37
desc. node	1899 Jul 17 08:10	20°♁51'19		minimum elong	1900 May 30 05:28	8°♁15'02	0°35'18
evening max el	1899 Jul 22 14:20	26°♁29'11	26°59'43	evening rise	1900 Jun 06 04:36	23°♁23'22	
	1899 Jul 26 19:07	0°♁			1900 Jun 09 09:23	0°♁	
retrograde	1899 Aug 05 12:19	3°♁43'02			1900 Jun 27 09:13	0°♁	
evening set	1899 Aug 12 12:27	1°♁32'37		desc. node	1900 Jul 04 05:10	7°♁46'27	
	1899 Aug 14 18:24	30°♁		evening max el	1900 Jul 04 12:54	8°♁05'01	26°02'02
min. Earth dist.	1899 Aug 16 04:36	28°♁52'11	0.61008 AU	retrograde	1900 Jul 18 12:54	15°♁15'08	
inferior conj	1899 Aug 19 09:10	26°♁08'06	-4°-27'-17	evening set	1900 Jul 24 20:11	13°♁39'10	
minimum elong	1899 Aug 19 13:58	25°♁57'44	4°26'26	min. Earth dist.	1900 Jul 29 01:27	11°♁02'51	0.58947 AU
morning rise	1899 Aug 26 18:31	21°♁17'16		inferior conj	1900 Aug 01 08:27	8°♁35'58	-4°-54'-32
direct	1899 Aug 29 03:29	20°♁54'41		minimum elong	1900 Aug 01 10:29	8°♁32'08	4°54'25
asc. node	1899 Sep 04 22:46	24°♁07'26		morning rise	1900 Aug 09 04:16	4°♁08'25	
morning max el	1899 Sep 05 07:18	24°♁27'43	18°01'31	direct	1900 Aug 11 15:10	3°♁48'13	
	1899 Sep 09 20:12	0°♁		morning max el	1900 Aug 19 15:12	7°♁37'53	18°31'30
morning set	1899 Sep 21 02:25	19°♁23'44		asc. node	1900 Aug 22 19:48	11°♁13'01	
	1899 Sep 26 20:39	0°♁					
superior conj	1899 Oct 01 04:50	7°♁47'11	1°16'27				
minimum elong	1899 Oct 01 09:14	8°♁06'37	1°15'59				
max. Earth dist.	1899 Oct 08 19:11	20°♁49'10	1.42007 AU				
desc. node	1899 Oct 13 07:32	28°♁12'42					
	1899 Oct 14 10:17	0°♁					
evening rise	1899 Oct 14 16:44	0°♁25'43					
	1899 Nov 03 11:28	0°♁					
greatest brilliancy	1899 Nov 11 20:43	11°♁01'02	-0.3m				
evening max el	1899 Nov 16 14:49	16°♁21'12	22°26'16				
retrograde	1899 Nov 26 06:59	22°♁06'12					
evening set	1899 Nov 30 19:53	20°♁17'20					
asc. node	1899 Dec 01 21:59	19°♁18'11					
inferior conj	1899 Dec 06 05:26	13°♁54'52	1°26'08				
minimum elong	1899 Dec 06 03:36	14°♁01'14	1°25'25				
min. Earth dist.	1899 Dec 06 02:53	14°♁03'42	0.67820 AU				
morning rise	1899 Dec 11 11:11	7°♁41'56					
direct	1899 Dec 16 01:08	5°♁49'25					
morning max el	1899 Dec 25 09:12	11°♁19'23	22°10'26				
greatest brilliancy	1899 Dec 30 00:09	16°♁30'36	-0.3m				
	1900 Jan 09 02:10	0°♁					
desc. node	1900 Jan 09 06:46	0°♁16'24					
morning set	1900 Jan 27 11:30	27°♁59'36					
	1900 Jan 28 17:11	0°♁					
max. Earth dist.	1900 Feb 02 01:54	7°♁13'17	1.40988 AU				
superior conj	1900 Feb 09 20:46	20°♁41'35	-2°-2'-13				
minimum elong	1900 Feb 09 23:03	20°♁51'45	2°02'09				
	1900 Feb 15 00:04	0°♁					
evening rise	1900 Feb 20 05:52	9°♁44'21					
asc. node	1900 Feb 27 21:17	23°♁37'22					
	1900 Mar 03 21:21	0°♁					
evening max el	1900 Mar 08 11:13	5°♁37'45	18°16'28				
retrograde	1900 Mar 15 13:22	9°♁09'58					
evening set	1900 Mar 18 00:48	8°♁44'59					
inferior conj	1900 Mar 25 03:20	4°♁02'04	3°08'30				
minimum elong	1900 Mar 25 06:41	3°♁54'49	3°07'52				
min. Earth dist.	1900 Mar 28 13:15	1°♁06'22	0.59499 AU				
	1900 Mar 29 23:07	30°♁					
morning rise	1900 Apr 01 08:54	28°♁23'59					
desc. node	1900 Apr 07 05:55	26°♁32'28					
direct	1900 Apr 07 18:51	26°♁31'41					