

superior conj	600 Apr 09 j 08:53	21°♈43'57	-0°17'30		601 Mar 21 j 14:25	0°♈	
minimum elong	600 Apr 09 j 09:44	21°♈48'29	0°17'19				
asc. node	600 Apr 11 j 00:48	25°♈19'33		superior conj	601 Mar 24 j 12:50	6°♈06'36	-0°44'43
	600 Apr 13 j 04:37	0°♈		minimum elong	601 Mar 24 j 15:01	6°♈18'06	0°44'17
evening rise	600 Apr 16 j 10:00	6°♈54'16		asc. node	601 Mar 28 j 21:52	15°♈23'37	
	600 Apr 28 j 15:46	0°♈		evening rise	601 Mar 31 j 20:47	21°♈38'06	
evening max el	600 May 09 j 19:17	14°♈23'10	23°27'53		601 Apr 04 j 23:18	0°♈	
desc. node	600 May 20 j 06:19	20°♈48'59		evening max el	601 Apr 21 j 13:20	25°♈00'55	21°53'41
retrograde	600 May 23 j 10:03	21°♈11'39			601 Apr 28 j 15:34	0°♈	
evening set	600 May 27 j 05:51	20°♈39'28		retrograde	601 May 04 j 03:09	1°♈10'31	
min. Earth dist.	600 Jun 03 j 05:34	17°♈26'37	0.55895 AU	evening set	601 May 06 j 18:10	0°♈55'09	
inferior conj	600 Jun 05 j 06:21	16°♈14'04	-4°00'14	desc. node	601 May 07 j 03:21	0°♈50'26	
minimum elong	600 Jun 04 j 23:30	16°♈24'18	3°58'48		601 May 09 j 21:27	30°♈	
morning rise	600 Jun 13 j 19:53	12°♈18'22		inferior conj	601 May 16 j 04:06	26°♈51'02	-2°30'58
direct	600 Jun 16 j 12:53	12°♈00'16		minimum elong	601 May 15 j 21:31	27°♈00'16	2°28'51
morning max el	600 Jun 26 j 22:53	16°♈49'23	20°13'51	min. Earth dist.	601 May 15 j 18:07	27°♈05'02	0.55043 AU
	600 Jul 06 j 20:41	0°♈		morning rise	601 May 25 j 02:04	22°♈55'42	
asc. node	600 Jul 08 j 00:02	1°♈58'17		direct	601 May 28 j 02:00	22°♈35'46	
morning set	600 Jul 15 j 08:42	16°♈08'36		morning max el	601 Jun 09 j 03:18	28°♈15'39	21°39'19
	600 Jul 22 j 03:06	0°♈			601 Jun 10 j 21:21	0°♈	
				asc. node	601 Jun 24 j 21:08	21°♈12'03	
superior conj	600 Jul 23 j 01:38	1°♈53'59	1°45'40		601 Jun 29 j 06:45	0°♈	
minimum elong	600 Jul 23 j 00:51	1°♈50'01	1°45'39	morning set	601 Jun 29 j 17:36	0°♈56'08	
max. Earth dist.	600 Jul 28 j 06:42	12°♈09'43	1.36553 AU				
evening rise	600 Aug 01 j 05:12	19°♈32'29		superior conj	601 Jul 07 j 01:12	16°♈18'40	1°38'27
	600 Aug 07 j 03:18	0°♈		minimum elong	601 Jul 06 j 23:18	16°♈08'43	1°38'19
desc. node	600 Aug 16 j 05:42	14°♈39'28		max. Earth dist.	601 Jul 10 j 19:33	24°♈03'11	1.34938 AU
	600 Aug 27 j 02:48	0°♈			601 Jul 13 j 19:22	0°♈	
evening max el	600 Sep 05 j 23:59	11°♈21'05	25°55'00	evening rise	601 Jul 15 j 06:52	2°♈51'43	
retrograde	600 Sep 18 j 10:25	18°♈26'31			601 Jul 31 j 00:53	0°♈	
evening set	600 Sep 24 j 14:51	15°♈51'05		desc. node	601 Aug 03 j 02:41	4°♈36'40	
min. Earth dist.	600 Sep 28 j 21:22	11°♈12'50	0.66706 AU	evening max el	601 Aug 19 j 12:08	24°♈55'44	26°49'36
inferior conj	600 Sep 30 j 04:56	9°♈33'20	-1°17'02		601 Aug 25 j 20:47	0°♈	
minimum elong	600 Sep 30 j 06:55	9°♈27'06	1°16'12	retrograde	601 Sep 01 j 14:05	2°♈11'42	
asc. node	600 Oct 03 j 23:15	5°♈14'27			601 Sep 07 j 14:53	30°♈	
morning rise	600 Oct 05 j 23:17	3°♈40'03		evening set	601 Sep 08 j 07:23	29°♈27'49	
direct	600 Oct 09 j 04:11	2°♈40'59		min. Earth dist.	601 Sep 12 j 06:44	25°♈26'32	0.65706 AU
morning max el	600 Oct 16 j 03:17	6°♈35'18	19°03'46	inferior conj	601 Sep 14 j 02:20	23°♈18'41	-2°13'43
	600 Nov 01 j 19:30	0°♈		minimum elong	601 Sep 14 j 05:46	23°♈08'36	2°12'25
morning set	600 Nov 07 j 15:39	9°♈07'33		morning rise	601 Sep 20 j 04:44	17°♈37'22	
desc. node	600 Nov 12 j 05:02	16°♈15'49		asc. node	601 Sep 20 j 20:20	17°♈19'09	
	600 Nov 20 j 23:14	0°♈		direct	601 Sep 23 j 01:28	16°♈51'55	
max. Earth dist.	600 Nov 22 j 05:49	2°♈00'22	1.44852 AU	morning max el	601 Sep 29 j 15:46	20°♈28'16	18°22'47
					601 Oct 06 j 23:31	0°♈	
superior conj	600 Nov 24 j 06:40	5°♈13'02	-1°14'19	morning set	601 Oct 19 j 01:26	19°♈15'45	
minimum elong	600 Nov 23 j 22:24	4°♈40'21	1°13'24		601 Oct 25 j 17:14	0°♈	
evening rise	600 Dec 09 j 07:02	29°♈20'19		desc. node	601 Oct 30 j 02:02	6°♈57'39	
	600 Dec 09 j 16:45	0°♈					
evening max el	600 Dec 29 j 12:16	29°♈45'13	18°36'40	superior conj	601 Nov 03 j 07:23	13°♈38'13	-0°27'40
	600 Dec 29 j 18:08	0°♈		minimum elong	601 Nov 03 j 03:45	13°♈23'56	0°27'11
asc. node	600 Dec 30 j 22:32	1°♈05'34		max. Earth dist.	601 Nov 05 j 00:35	16°♈20'22	1.45055 AU
retrograde	601 Jan 05 j 03:21	3°♈26'03			601 Nov 13 j 17:37	0°♈	
evening set	601 Jan 08 j 05:47	2°♈31'59		evening rise	601 Nov 19 j 14:28	9°♈12'17	
	601 Jan 11 j 08:10	30°♈		greatest brilliancy	601 Nov 30 j 04:30	25°♈45'44	-0.8m
inferior conj	601 Jan 14 j 01:16	26°♈56'01	3°35'17		601 Dec 02 j 23:09	0°♈	
minimum elong	601 Jan 13 j 23:18	27°♈01'53	3°35'00	evening max el	601 Dec 12 j 21:17	13°♈12'40	19°17'29
min. Earth dist.	601 Jan 16 j 00:11	24°♈36'07	0.64803 AU	asc. node	601 Dec 17 j 19:36	16°♈51'04	
morning rise	601 Jan 19 j 16:22	20°♈48'24		retrograde	601 Dec 19 j 23:16	17°♈16'38	
direct	601 Jan 26 j 11:12	17°♈56'07		evening set	601 Dec 23 j 08:21	16°♈10'02	
desc. node	601 Feb 08 j 04:12	25°♈03'25		inferior conj	601 Dec 28 j 22:16	10°♈18'09	3°09'48
morning max el	601 Feb 08 j 20:12	25°♈42'53	27°11'56	minimum elong	601 Dec 28 j 19:37	10°♈26'38	3°09'11
	601 Feb 12 j 19:10	0°♈		min. Earth dist.	601 Dec 30 j 06:16	8°♈35'32	0.66101 AU
	601 Mar 05 j 14:39	0°♈		morning rise	602 Jan 03 j 06:39	4°♈06'53	
morning set	601 Mar 16 j 08:08	19°♈28'05		direct	602 Jan 09 j 14:51	1°♈19'08	
max. Earth dist.	601 Mar 20 j 23:49	28°♈45'09	1.33865 AU	morning max el	602 Jan 22 j 05:38	8°♈46'27	26°11'30

desc. node	602 Jan 26 j 01:16	12°♄54'44		603 Jan 11 j 14:22	0°♄	
	602 Feb 07 j 22:03	0°♄		desc. node	603 Jan 12 j 22:18	1°♄41'27
	602 Feb 26 j 01:57	0°♄		603 Feb 01 j 04:57	0°♄	
morning set	602 Feb 27 j 10:02	2°♄28'23		morning set	603 Feb 09 j 17:48	14°♄30'51
max. Earth dist.	602 Mar 03 j 09:57	10°♄05'31	1.35272 AU	max. Earth dist.	603 Feb 13 j 09:44	21°♄08'38 1.37096 AU
				603 Feb 18 j 02:25	0°♄	
superior conj	602 Mar 08 j 09:49	20°♄03'26	-1°11'10	superior conj	603 Feb 19 j 20:51	3°♄26'01 -1°34'57
minimum elong	602 Mar 08 j 13:12	20°♄20'35	1°10'36	minimum elong	603 Feb 20 j 00:51	3°♄45'33 1°34'28
	602 Mar 13 j 05:31	0°♄		evening rise	603 Feb 28 j 06:57	20°♄14'24
asc. node	602 Mar 15 j 18:54	5°♄17'38		asc. node	603 Mar 02 j 15:57	24°♄56'59
evening rise	602 Mar 16 j 04:30	6°♄06'57		603 Mar 05 j 07:00	0°♄	
	602 Mar 29 j 12:47	0°♄		evening max el	603 Mar 17 j 07:54	17°♄48'58 19°25'00
evening max el	602 Apr 03 j 16:57	6°♄05'51	20°30'32	retrograde	603 Mar 26 j 14:21	22°♄16'44
retrograde	602 Apr 14 j 16:05	11°♄23'22		evening set	603 Mar 28 j 17:37	22°♄03'33
evening set	602 Apr 16 j 18:57	11°♄12'20		inferior conj	603 Apr 06 j 04:36	17°♄56'33 1°18'41
desc. node	602 Apr 24 j 00:25	8°♄20'45		minimum elong	603 Apr 06 j 07:41	17°♄51'31 1°17'39
inferior conj	602 Apr 25 j 22:43	7°♄14'42	-0°33'24	min. Earth dist.	603 Apr 08 j 21:44	16°♄10'49 0.56141 AU
minimum elong	602 Apr 25 j 21:09	7°♄16'59	0°32'50	desc. node	603 Apr 10 j 21:28	14°♄59'03
min. Earth dist.	602 Apr 27 j 07:11	6°♄27'41	0.55132 AU	morning rise	603 Apr 14 j 19:00	13°♄10'57
morning rise	602 May 04 j 22:14	3°♄01'15		direct	603 Apr 19 j 09:54	12°♄22'25
direct	602 May 08 j 13:17	2°♄32'48		morning max el	603 May 03 j 12:58	19°♄32'00 24°58'26
morning max el	602 May 21 j 22:14	9°♄02'56	23°18'03		603 May 12 j 09:02	0°♄
	602 Jun 06 j 02:48	0°♄			603 May 29 j 07:24	0°♄
asc. node	602 Jun 11 j 18:11	10°♄48'28		morning set	603 May 29 j 16:46	0°♄49'17
morning set	602 Jun 14 j 04:52	15°♄51'33		asc. node	603 May 29 j 15:13	0°♄41'05
	602 Jun 20 j 19:26	0°♄				
superior conj	602 Jun 21 j 06:58	1°♄01'54	1°25'39	superior conj	603 Jun 05 j 16:33	15°♄56'10 1°08'23
minimum elong	602 Jun 21 j 04:33	0°♄48'57	1°25'22	minimum elong	603 Jun 05 j 14:10	15°♄43'08 1°07'59
max. Earth dist.	602 Jun 23 j 18:02	6°♄15'55	1.33698 AU	max. Earth dist.	603 Jun 07 j 00:28	18°♄49'35 1.32850 AU
evening rise	602 Jun 28 j 21:26	16°♄49'15			603 Jun 12 j 06:49	0°♄
	602 Jul 05 j 20:21	0°♄		evening rise	603 Jun 12 j 21:10	1°♄13'46
desc. node	602 Jul 20 j 23:42	24°♄03'53		603 Jun 28 j 19:10	0°♄	
	602 Jul 25 j 12:18	0°♄		desc. node	603 Jul 07 j 20:44	12°♄48'07
evening max el	602 Aug 01 j 23:52	8°♄16'21	27°20'49	evening max el	603 Jul 15 j 08:57	21°♄09'02 27°22'29
retrograde	602 Aug 15 j 11:55	15°♄35'05		retrograde	603 Jul 29 j 03:30	28°♄26'52
evening set	602 Aug 22 j 14:26	12°♄51'41		evening set	603 Aug 05 j 08:27	25°♄56'04
min. Earth dist.	602 Aug 26 j 07:37	9°♄26'11	0.64343 AU	min. Earth dist.	603 Aug 08 j 22:19	23°♄00'16 0.62631 AU
inferior conj	602 Aug 28 j 16:11	6°♄55'03	-3°08'13	inferior conj	603 Aug 11 j 19:33	20°♄15'01 -3°56'53
minimum elong	602 Aug 28 j 20:47	6°♄42'45	3°06'46	minimum elong	603 Aug 12 j 00:29	20°♄03'13 3°55'43
morning rise	602 Sep 04 j 04:00	1°♄29'13		morning rise	603 Aug 18 j 17:51	15°♄08'06
direct	602 Sep 06 j 19:02	0°♄53'53		direct	603 Aug 21 j 05:37	14°♄39'54
asc. node	602 Sep 07 j 17:24	0°♄58'24		asc. node	603 Aug 25 j 14:27	16°♄08'36
morning max el	602 Sep 13 j 07:15	4°♄20'47	17°58'55	morning max el	603 Aug 27 j 22:52	18°♄05'47 17°52'57
	602 Sep 30 j 04:24	0°♄			603 Sep 05 j 12:32	0°♄
morning set	602 Sep 30 j 15:20	0°♄46'26		morning set	603 Sep 13 j 03:44	13°♄21'14
				603 Sep 22 j 15:23	0°♄	
superior conj	602 Oct 13 j 20:30	22°♄44'15	0°20'36	superior conj	603 Sep 24 j 11:20	3°♄07'00 1°00'08
minimum elong	602 Oct 13 j 22:51	22°♄53'44	0°20'17	minimum elong	603 Sep 24 j 16:10	3°♄27'22 0°59'33
desc. node	602 Oct 16 j 23:03	27°♄43'49		max. Earth dist.	603 Oct 01 j 10:21	14°♄38'23 1.43319 AU
	602 Oct 18 j 09:13	0°♄		desc. node	603 Oct 03 j 20:03	18°♄30'40
max. Earth dist.	602 Oct 18 j 19:17	0°♄39'57	1.44520 AU	evening rise	603 Oct 09 j 10:59	27°♄22'32
evening rise	602 Oct 30 j 03:11	18°♄21'41			603 Oct 11 j 03:38	0°♄
	602 Nov 06 j 17:51	0°♄			603 Oct 31 j 15:06	0°♄
greatest brilliancy	602 Nov 13 j 02:53	9°♄33'27	-0.6m	evening max el	603 Nov 09 j 00:00	10°♄10'15 21°22'19
evening max el	602 Nov 26 j 01:33	26°♄41'30	20°13'36	retrograde	603 Nov 17 j 18:17	15°♄22'49
	602 Nov 29 j 23:38	0°♄		evening set	603 Nov 21 j 22:00	13°♄46'14
retrograde	602 Dec 03 j 20:59	1°♄16'52		asc. node	603 Nov 21 j 13:42	14°♄01'49
asc. node	602 Dec 04 j 16:39	1°♄13'04		inferior conj	603 Nov 27 j 06:39	7°♄31'33 1°52'00
evening set	602 Dec 07 j 14:25	29°♄56'06		minimum elong	603 Nov 27 j 04:23	7°♄39'23 1°51'11
	602 Dec 07 j 12:14	30°♄		min. Earth dist.	603 Nov 27 j 13:27	7°♄08'06 0.67533 AU
inferior conj	602 Dec 13 j 00:49	23°♄51'08	2°34'37	morning rise	603 Dec 02 j 10:37	1°♄18'28
minimum elong	602 Dec 12 j 22:07	24°♄00'15	2°33'47		603 Dec 04 j 06:15	30°♄
min. Earth dist.	602 Dec 13 j 19:26	22°♄48'28	0.67004 AU	direct	603 Dec 07 j 13:37	29°♄05'53
morning rise	602 Dec 18 j 05:39	17°♄38'02			603 Dec 11 j 03:45	0°♄
direct	602 Dec 23 j 23:51	15°♄04'59		morning max el	603 Dec 17 j 23:14	5°♄17'18 23°25'00
morning max el	603 Jan 04 j 14:15	21°♄59'35	24°52'30			

desc. node	603 Dec 30 j 19:19	21°♄07'15		morning max el	604 Nov 29 j 11:38	18°♄40'58	21°58'28
	604 Jan 06 j 00:07	0°♄			604 Dec 08 j 20:22	0°♄	
morning set	604 Jan 22 j 01:12	25°♄18'57		desc. node	604 Dec 16 j 16:21	11°♄01'20	
	604 Jan 24 j 19:08	0°♄			604 Dec 29 j 04:26	0°♄	
max. Earth dist.	604 Jan 26 j 04:44	2°♄25'51	1.39183 AU	morning set	605 Jan 01 j 03:31	4°♄42'40	
				max. Earth dist.	605 Jan 07 j 02:33	14°♄28'04	1.41285 AU
superior conj	604 Feb 02 j 17:56	16°♄03'52	-1°53'20				
minimum elong	604 Feb 02 j 21:21	16°♄19'46	1°53'06	superior conj	605 Jan 14 j 20:07	27°♄44'57	-2°02'34
	604 Feb 10 j 01:18	0°♄		minimum elong	605 Jan 14 j 20:57	27°♄48'36	2°02'34
evening rise	604 Feb 12 j 01:24	3°♄52'51			605 Jan 16 j 02:34	0°♄	
asc. node	604 Feb 17 j 12:59	14°♄15'54		evening rise	605 Jan 25 j 08:32	16°♄54'19	
	604 Feb 28 j 05:13	0°♄			605 Feb 01 j 13:38	0°♄	
evening max el	604 Feb 28 j 08:46	0°♄08'40	18°39'26	asc. node	605 Feb 03 j 10:01	3°♄07'10	
retrograde	604 Mar 07 j 06:10	3°♄59'31		evening max el	605 Feb 10 j 16:36	12°♄56'36	18°13'53
evening set	604 Mar 09 j 14:30	3°♄40'20		retrograde	605 Feb 17 j 16:16	16°♄26'37	
	604 Mar 16 j 06:48	30°♄		evening set	605 Feb 20 j 05:59	15°♄59'02	
inferior conj	604 Mar 17 j 06:19	29°♄15'42	2°40'55	inferior conj	605 Feb 27 j 04:54	11°♄13'36	3°28'32
minimum elong	604 Mar 17 j 10:32	29°♄07'41	2°39'53	minimum elong	605 Feb 27 j 07:37	11°♄07'34	3°28'10
min. Earth dist.	604 Mar 20 j 15:17	26°♄42'51	0.57845 AU	min. Earth dist.	605 Mar 02 j 13:49	8°♄15'44	0.59917 AU
morning rise	604 Mar 25 j 03:35	23°♄57'49		morning rise	605 Mar 06 j 07:05	5°♄32'36	
desc. node	604 Mar 27 j 18:29	23°♄00'25		direct	605 Mar 12 j 20:16	3°♄33'14	
direct	604 Mar 30 j 20:42	22°♄36'19		desc. node	605 Mar 14 j 15:32	3°♄41'59	
morning max el	604 Apr 14 j 05:26	0°♄10'57	26°25'10	morning max el	605 Mar 27 j 03:14	11°♄20'42	27°24'19
	604 Apr 14 j 00:55	0°♄			605 Apr 10 j 17:00	0°♄	
	604 May 05 j 04:24	0°♄		morning set	605 Apr 27 j 11:59	0°♄28'36	
morning set	604 May 13 j 03:44	15°♄44'04			605 Apr 27 j 06:29	0°♄	
asc. node	604 May 15 j 12:14	20°♄44'47		asc. node	605 May 02 j 09:16	10°♄54'02	
	604 May 19 j 18:00	0°♄		max. Earth dist.	605 May 04 j 00:15	14°♄27'02	1.32292 AU
superior conj	604 May 20 j 04:03	0°♄55'10	0°47'32	superior conj	605 May 04 j 15:41	15°♄51'40	0°23'49
minimum elong	604 May 20 j 02:09	0°♄44'41	0°47'09	minimum elong	605 May 04 j 14:38	15°♄45'54	0°23'34
max. Earth dist.	604 May 20 j 11:47	1°♄37'37	1.32384 AU		605 May 11 j 03:46	0°♄	
evening rise	604 May 27 j 03:07	15°♄56'30		evening rise	605 May 11 j 12:53	0°♄48'16	
	604 Jun 03 j 05:28	0°♄			605 May 27 j 11:49	0°♄	
	604 Jun 23 j 06:13	0°♄		evening max el	605 Jun 08 j 10:19	14°♄50'54	25°48'36
desc. node	604 Jun 23 j 17:45	0°♄31'36		desc. node	605 Jun 10 j 14:47	16°♄48'14	
evening max el	604 Jun 26 j 12:59	3°♄22'46	26°51'16	retrograde	605 Jun 22 j 11:23	22°♄02'05	
retrograde	604 Jul 10 j 11:58	10°♄38'19		evening set	605 Jun 28 j 11:51	20°♄35'26	
evening set	604 Jul 17 j 09:06	8°♄34'10		min. Earth dist.	605 Jul 02 j 22:49	17°♄55'37	0.58600 AU
min. Earth dist.	604 Jul 21 j 02:51	5°♄55'08	0.60657 AU	inferior conj	605 Jul 06 j 05:24	15°♄32'41	-4°49'19
inferior conj	604 Jul 24 j 09:10	3°♄10'59	-4°33'42	minimum elong	605 Jul 06 j 05:38	15°♄32'15	4°49'19
minimum elong	604 Jul 24 j 12:52	3°♄03'11	4°33'12	morning rise	605 Jul 14 j 01:49	11°♄09'34	
	604 Jul 28 j 12:51	30°♄		direct	605 Jul 16 j 14:06	10°♄49'05	
morning rise	604 Jul 31 j 18:29	28°♄25'33		morning max el	605 Jul 24 j 18:17	14°♄41'58	18°38'59
direct	604 Aug 03 j 05:24	28°♄02'06		asc. node	605 Jul 29 j 08:30	20°♄08'17	
	604 Aug 08 j 14:19	0°♄			605 Aug 04 j 09:53	0°♄	
morning max el	604 Aug 10 j 11:36	1°♄36'06	18°05'54	morning set	605 Aug 10 j 01:34	10°♄41'11	
asc. node	604 Aug 11 j 11:28	2°♄37'13					
morning set	604 Aug 26 j 08:44	26°♄43'54		superior conj	605 Aug 18 j 19:52	27°♄33'52	1°41'59
	604 Aug 28 j 02:46	0°♄		minimum elong	605 Aug 18 j 21:59	27°♄43'49	1°41'52
superior conj	604 Sep 05 j 04:47	14°♄48'22	1°27'06		605 Aug 20 j 03:09	0°♄	
minimum elong	604 Sep 05 j 08:53	15°♄06'39	1°26'43	max. Earth dist.	605 Aug 26 j 00:14	10°♄37'53	1.39634 AU
max. Earth dist.	604 Sep 12 j 19:44	27°♄59'45	1.41616 AU	evening rise	605 Aug 30 j 03:04	17°♄43'33	
	604 Sep 14 j 00:32	0°♄		desc. node	605 Sep 06 j 14:07	29°♄53'12	
evening rise	604 Sep 18 j 07:27	7°♄00'33			605 Sep 06 j 15:50	0°♄	
desc. node	604 Sep 19 j 17:05	9°♄15'08			605 Sep 27 j 19:40	0°♄	
	604 Oct 03 j 08:42	0°♄		evening max el	605 Oct 04 j 06:29	7°♄14'17	23°59'49
evening max el	604 Oct 21 j 17:05	23°♄40'29	22°39'35	retrograde	605 Oct 15 j 05:23	13°♄40'39	
retrograde	604 Oct 31 j 13:33	29°♄31'48		evening set	605 Oct 20 j 11:05	11°♄29'22	
evening set	604 Nov 05 j 05:26	27°♄38'06		asc. node	605 Oct 25 j 07:45	5°♄50'35	
asc. node	604 Nov 07 j 10:43	25°♄23'54		inferior conj	605 Oct 25 j 20:38	5°♄06'52	0°11'07
inferior conj	604 Nov 10 j 13:50	21°♄17'30	1°03'42	minimum elong	605 Oct 25 j 20:22	5°♄07'47	0°11'01
minimum elong	604 Nov 10 j 12:25	21°♄22'27	1°03'07	transit middle	605 Oct 25 j 20:22	5°♄07'47	0°11'01
min. Earth dist.	604 Nov 10 j 09:54	21°♄31'09	0.67721 AU	transit begin	605 Oct 25 j 18:22	5°♄14'35	
morning rise	604 Nov 15 j 19:16	15°♄06'36		transit end	605 Oct 25 j 22:22	5°♄00'59	
direct	604 Nov 20 j 07:26	13°♄16'32		min. Earth dist.	605 Oct 25 j 06:18	5°♄55'26	0.67582 AU
					605 Oct 30 j 01:52	30°♄	

morning rise	605 Oct 31 j 05:37	29°♄00'41		minimum elong	606 Oct 10 j 02:23	18°♄53'10	0°43'54
direct	605 Nov 04 j 04:12	27°♄32'28		asc. node	606 Oct 12 j 04:48	16°♄14'46	
	605 Nov 09 j 19:35	0°♄		morning rise	606 Oct 15 j 15:42	12°♄58'09	
morning max el	605 Nov 12 j 06:39	2°♄14'12	20°40'14	direct	606 Oct 19 j 02:30	11°♄49'21	
	605 Dec 02 j 17:17	0°♄		morning max el	606 Oct 26 j 09:29	15°♄57'44	19°34'44
desc. node	605 Dec 03 j 13:23	1°♄15'48			606 Nov 06 j 03:59	0°♄	
morning set	605 Dec 11 j 05:28	13°♄01'12		greatest brilliancy	606 Nov 08 j 23:55	4°♄12'44	-0.7m
max. Earth dist.	605 Dec 20 j 08:12	27°♄27'50	1.43109 AU	morning set	606 Nov 20 j 03:20	21°♄16'52	
	605 Dec 21 j 21:41	0°♄		desc. node	606 Nov 20 j 10:25	21°♄44'15	
					606 Nov 25 j 17:56	0°♄	
superior conj	605 Dec 26 j 22:10	8°♄17'39	-1°58'02	max. Earth dist.	606 Dec 02 j 21:26	11°♄14'11	1.44408 AU
minimum elong	605 Dec 26 j 18:18	8°♄01'24	1°57'52				
evening rise	606 Jan 08 j 00:22	29°♄10'57		superior conj	606 Dec 06 j 21:27	17°♄37'01	-1°35'34
	606 Jan 08 j 11:28	0°♄		minimum elong	606 Dec 06 j 13:20	17°♄04'29	1°34'50
asc. node	606 Jan 21 j 07:04	21°♄22'25			606 Dec 14 j 12:13	0°♄	
evening max el	606 Jan 25 j 04:17	26°♄04'18	18°07'54	evening rise	606 Dec 20 j 20:30	10°♄34'12	
retrograde	606 Jan 31 j 17:17	29°♄28'40			607 Jan 01 j 14:52	0°♄	
evening set	606 Feb 03 j 11:49	28°♄51'25		asc. node	607 Jan 08 j 04:08	8°♄50'11	
inferior conj	606 Feb 09 j 21:26	23°♄44'56	3°47'11	evening max el	607 Jan 08 j 16:50	9°♄23'22	18°20'54
minimum elong	606 Feb 09 j 21:58	23°♄43'34	3°47'10	retrograde	607 Jan 15 j 04:46	12°♄55'04	
min. Earth dist.	606 Feb 12 j 19:57	20°♄47'11	0.62014 AU	evening set	607 Jan 18 j 04:06	12°♄07'22	
morning rise	606 Feb 16 j 06:53	17°♄49'30		inferior conj	607 Jan 24 j 03:52	6°♄41'17	3°44'18
direct	606 Feb 23 j 05:38	15°♄19'01		minimum elong	607 Jan 24 j 02:37	6°♄44'50	3°44'12
desc. node	606 Mar 01 j 12:34	17°♄06'28		min. Earth dist.	607 Jan 26 j 11:32	4°♄03'53	0.63884 AU
morning max el	606 Mar 09 j 07:08	23°♄11'30	27°47'48	morning rise	607 Jan 30 j 00:29	0°♄37'00	
	606 Mar 15 j 09:06	0°♄			607 Jan 30 j 19:47	30°♄	
	606 Apr 03 j 21:45	0°♄		direct	607 Feb 05 j 22:53	27°♄48'43	
morning set	606 Apr 11 j 15:34	14°♄56'20			607 Feb 12 j 16:54	0°♄	
max. Earth dist.	606 Apr 17 j 10:12	27°♄05'23	1.32583 AU	desc. node	607 Feb 16 j 09:37	2°♄40'58	
	606 Apr 18 j 18:27	0°♄		morning max el	607 Feb 19 j 15:25	5°♄39'56	27°34'36
					607 Mar 10 j 03:56	0°♄	
superior conj	606 Apr 19 j 01:47	0°♄39'54	-0°02'01	morning set	607 Mar 26 j 11:58	28°♄58'51	
minimum elong	606 Apr 19 j 01:53	0°♄40'24	0°02'00		607 Mar 27 j 00:16	0°♄	
behind sun begin	606 Apr 18 j 20:47	0°♄12'40		max. Earth dist.	607 Mar 31 j 13:36	9°♄19'14	1.33276 AU
behind sun end	606 Apr 19 j 06:59	1°♄08'09					
asc. node	606 Apr 19 j 06:21	1°♄04'43		superior conj	607 Apr 03 j 08:33	15°♄13'31	-0°29'02
evening rise	606 Apr 26 j 00:31	15°♄42'18		minimum elong	607 Apr 03 j 09:58	15°♄21'04	0°28'44
	606 May 03 j 03:49	0°♄		asc. node	607 Apr 06 j 03:25	21°♄12'20	
evening max el	606 May 21 j 01:55	25°♄39'51	24°22'29		607 Apr 10 j 06:07	0°♄	
	606 May 26 j 12:53	0°♄		evening rise	607 Apr 10 j 12:08	0°♄31'43	
desc. node	606 May 28 j 11:48	1°♄04'46			607 Apr 27 j 06:14	0°♄	
retrograde	606 Jun 03 j 23:12	2°♄40'04		evening max el	607 May 02 j 16:47	6°♄12'11	22°46'56
evening set	606 Jun 08 j 15:38	1°♄51'02		desc. node	607 May 15 j 08:50	12°♄45'43	
	606 Jun 12 j 16:29	30°♄		retrograde	607 May 15 j 22:36	12°♄46'28	
min. Earth dist.	606 Jun 14 j 13:06	28°♄54'09	0.56747 AU	evening set	607 May 19 j 04:48	12°♄23'10	
inferior conj	606 Jun 17 j 05:41	27°♄11'55	-4°30'56	min. Earth dist.	607 May 27 j 01:18	8°♄56'20	0.55432 AU
minimum elong	606 Jun 17 j 01:00	27°♄19'24	4°30'20	inferior conj	607 May 28 j 11:04	8°♄07'56	-3°27'29
morning rise	606 Jun 25 j 13:06	23°♄08'35		minimum elong	607 May 28 j 03:36	8°♄18'40	3°25'31
direct	606 Jun 28 j 04:17	22°♄49'50		morning rise	607 Jun 06 j 04:45	4°♄14'59	
morning max el	606 Jul 07 j 16:00	27°♄14'14	19°33'12	direct	607 Jun 09 j 00:12	3°♄56'34	
	606 Jul 10 j 06:52	0°♄		morning max el	607 Jun 20 j 02:51	9°♄05'47	20°48'10
asc. node	606 Jul 16 j 05:33	8°♄28'08		asc. node	607 Jul 03 j 02:38	27°♄25'19	
morning set	606 Jul 25 j 02:39	25°♄03'50			607 Jul 04 j 11:45	0°♄	
	606 Jul 27 j 13:29	0°♄		morning set	607 Jul 09 j 09:23	9°♄44'44	
superior conj	606 Aug 02 j 03:04	11°♄08'13	1°46'43	superior conj	607 Jul 16 j 21:47	25°♄18'31	1°43'22
minimum elong	606 Aug 02 j 03:12	11°♄08'54	1°46'43	minimum elong	607 Jul 16 j 20:27	25°♄11'40	1°43'19
max. Earth dist.	606 Aug 08 j 03:57	22°♄41'49	1.37629 AU		607 Jul 19 j 05:16	0°♄	
evening rise	606 Aug 11 j 22:54	29°♄35'10		max. Earth dist.	607 Jul 21 j 12:10	4°♄32'35	1.35821 AU
	606 Aug 12 j 04:29	0°♄		evening rise	607 Jul 25 j 15:06	12°♄26'33	
desc. node	606 Aug 24 j 11:08	20°♄20'19			607 Aug 04 j 15:22	0°♄	
	606 Aug 30 j 23:01	0°♄		desc. node	607 Aug 11 j 08:09	10°♄31'04	
evening max el	606 Sep 16 j 18:19	20°♄51'24	25°16'03		607 Aug 26 j 00:03	0°♄	
retrograde	606 Sep 28 j 16:53	27°♄44'56		evening max el	607 Aug 30 j 06:04	4°♄28'46	26°20'37
evening set	606 Oct 04 j 13:13	25°♄17'15		retrograde	607 Sep 11 j 23:33	11°♄39'44	
min. Earth dist.	606 Oct 09 j 00:12	20°♄18'21	0.67123 AU	evening set	607 Sep 18 j 09:56	8°♄59'33	
inferior conj	606 Oct 10 j 01:16	18°♄56'49	-0°44'22	min. Earth dist.	607 Sep 22 j 13:16	4°♄37'19	0.66325 AU

inferior conj	607 Sep 24 j 01:54	2°♌45'09	-1°41'10	minimum elong	608 Sep 07 j 00:21	16°♏15'58	2°35'53
minimum elong	607 Sep 24 j 04:30	2°♌37'09	1°40'07	morning rise	608 Sep 13 j 02:39	10°♏52'22	
	607 Sep 26 j 10:05	30°♏		asc. node	608 Sep 14 j 22:54	10°♏16'12	
asc. node	607 Sep 29 j 01:51	27°♏32'14		direct	608 Sep 15 j 20:33	10°♏11'47	
morning rise	607 Sep 29 j 23:30	26°♏56'51		morning max el	608 Sep 22 j 09:17	13°♏43'16	18°10'30
direct	607 Oct 03 j 00:39	26°♏04'03			608 Oct 03 j 21:41	0°♌	
	607 Oct 09 j 23:20	0°♌		morning set	608 Oct 10 j 18:47	11°♌20'16	
morning max el	607 Oct 09 j 19:09	29°♏49'22	18°44'24		608 Oct 22 j 05:40	0°♏	
	607 Oct 30 j 11:38	0°♏		desc. node	608 Oct 24 j 04:29	3°♏06'50	
morning set	607 Oct 30 j 20:41	0°♏35'55					
desc. node	607 Nov 07 j 07:28	12°♏22'39		superior conj	608 Oct 25 j 04:35	4°♏42'41	-0°06'40
max. Earth dist.	607 Nov 15 j 15:01	25°♏27'09	1.45027 AU	minimum elong	608 Oct 25 j 03:44	4°♏39'18	0°06'33
				behind sun begin	608 Oct 24 j 17:40	3°♏59'18	
superior conj	607 Nov 16 j 01:05	26°♏06'46	-0°55'33	behind sun end	608 Oct 25 j 13:48	5°♏19'16	
minimum elong	607 Nov 15 j 18:10	25°♏39'34	0°54'43	max. Earth dist.	608 Oct 28 j 09:35	9°♏47'12	1.44909 AU
	607 Nov 18 j 12:23	0°♏			608 Nov 10 j 08:08	0°♏	
evening rise	607 Dec 01 j 17:32	20°♏59'19		evening rise	608 Nov 10 j 15:46	0°♏29'37	
	607 Dec 07 j 08:13	0°♏		greatest brilliancy	608 Nov 23 j 06:10	19°♏53'12	-0.7m
evening max el	607 Dec 23 j 03:41	22°♏48'32	18°51'57		608 Nov 30 j 06:22	0°♏	
asc. node	607 Dec 26 j 01:10	25°♏17'19		evening max el	608 Dec 05 j 10:46	6°♏16'29	19°39'40
retrograde	607 Dec 29 j 22:38	26°♏38'27		asc. node	608 Dec 11 j 22:11	10°♏28'53	
evening set	608 Jan 02 j 03:40	25°♏39'15		retrograde	608 Dec 12 j 19:39	10°♏33'22	
inferior conj	608 Jan 07 j 20:29	19°♏55'55	3°25'50	evening set	608 Dec 16 j 07:57	9°♏21'09	
minimum elong	608 Jan 07 j 18:08	20°♏03'08	3°25'24	inferior conj	608 Dec 21 j 20:08	3°♏23'21	2°55'55
min. Earth dist.	608 Jan 09 j 12:49	17°♏51'20	0.65401 AU	minimum elong	608 Dec 21 j 17:24	3°♏32'21	2°55'11
morning rise	608 Jan 13 j 08:16	13°♏46'16		min. Earth dist.	608 Dec 22 j 22:18	1°♏57'22	0.66524 AU
direct	608 Jan 19 j 22:57	10°♏54'36			608 Dec 24 j 11:23	30°♏	
morning max el	608 Feb 02 j 01:18	18°♏35'06	26°49'10	morning rise	608 Dec 27 j 02:37	27°♏10'50	
desc. node	608 Feb 03 j 06:41	19°♏50'44		direct	609 Jan 02 j 05:05	24°♏28'09	
	608 Feb 11 j 17:34	0°♏			609 Jan 12 j 15:18	0°♏	
	608 Mar 02 j 03:04	0°♏		morning max el	609 Jan 14 j 10:28	1°♏44'08	25°39'36
morning set	608 Mar 08 j 21:53	12°♏26'04		desc. node	609 Jan 20 j 03:43	8°♏08'09	
max. Earth dist.	608 Mar 13 j 06:44	20°♏59'31	1.34409 AU		609 Feb 04 j 19:39	0°♏	
				morning set	609 Feb 19 j 16:52	25°♏04'45	
superior conj	608 Mar 17 j 09:51	29°♏26'05	-0°56'08		609 Feb 22 j 08:35	0°♏	
minimum elong	608 Mar 17 j 12:35	29°♏40'15	0°55'37	max. Earth dist.	609 Feb 23 j 11:52	2°♏09'03	1.35993 AU
	608 Mar 17 j 16:22	0°♏					
asc. node	608 Mar 23 j 00:29	11°♏12'48		superior conj	609 Mar 01 j 03:04	13°♏10'07	-1°21'43
evening rise	608 Mar 24 j 21:53	15°♏10'09		minimum elong	609 Mar 01 j 06:48	13°♏28'51	1°21'10
	608 Apr 01 j 11:29	0°♏		evening rise	609 Mar 09 j 03:41	29°♏31'14	
evening max el	608 Apr 13 j 14:14	16°♏58'49	21°16'21		609 Mar 09 j 09:20	0°♏	
retrograde	608 Apr 25 j 13:02	22°♏47'47		asc. node	609 Mar 09 j 21:31	1°♏01'43	
evening set	608 Apr 27 j 20:37	22°♏35'24		evening max el	609 Mar 26 j 22:50	28°♏20'56	20°00'24
desc. node	608 May 01 j 05:53	21°♏36'50			609 Mar 28 j 20:03	0°♏	
inferior conj	608 May 07 j 05:42	18°♏35'48	-1°42'39	retrograde	609 Apr 06 j 04:27	3°♏16'08	
minimum elong	608 May 07 j 00:54	18°♏42'32	1°40'58	evening set	609 Apr 08 j 06:14	3°♏04'54	
min. Earth dist.	608 May 07 j 14:02	18°♏24'04	0.54958 AU		609 Apr 15 j 15:03	30°♏	
morning rise	608 May 16 j 05:30	14°♏35'05		inferior conj	609 Apr 17 j 03:43	29°♏05'13	0°16'37
direct	608 May 19 j 10:18	14°♏12'52		minimum elong	609 Apr 17 j 04:28	29°♏04'06	0°16'20
morning max el	608 Jun 01 j 02:58	20°♏14'58	22°20'21	desc. node	609 Apr 18 j 02:54	28°♏30'03	
	608 Jun 09 j 06:10	0°♏		min. Earth dist.	609 Apr 19 j 04:03	27°♏52'15	0.55453 AU
asc. node	608 Jun 18 j 23:42	16°♏49'47		morning rise	609 Apr 26 j 00:35	24°♏38'36	
morning set	608 Jun 22 j 19:30	24°♏36'40		direct	609 Apr 30 j 00:54	24°♏03'10	
	608 Jun 25 j 08:50	0°♏			609 May 12 j 20:35	0°♏	
				morning max el	609 May 13 j 19:31	0°♏52'44	24°01'16
superior conj	608 Jun 30 j 00:21	9°♏52'45	1°33'39		609 Jun 02 j 14:19	0°♏	
minimum elong	608 Jun 29 j 22:09	9°♏41'10	1°33'26	asc. node	609 Jun 05 j 20:46	6°♏34'19	
max. Earth dist.	608 Jul 03 j 04:52	16°♏32'20	1.34356 AU	morning set	609 Jun 07 j 07:14	9°♏34'06	
evening rise	608 Jul 07 j 22:46	26°♏03'50					
	608 Jul 09 j 23:54	0°♏		superior conj	609 Jun 14 j 08:01	24°♏42'14	1°18'51
desc. node	608 Jul 28 j 05:11	0°♏17'14		minimum elong	609 Jun 14 j 05:33	24°♏28'54	1°18'29
	608 Jul 28 j 00:22	0°♏		max. Earth dist.	609 Jun 16 j 06:52	28°♏54'01	1.33292 AU
evening max el	608 Aug 11 j 17:58	17°♏58'15	27°06'04		609 Jun 16 j 19:15	0°♏	
retrograde	608 Aug 25 j 00:59	25°♏16'59		evening rise	609 Jun 21 j 17:41	10°♏14'50	
evening set	608 Aug 31 j 22:48	22°♏31'42			609 Jul 02 j 07:48	0°♏	
min. Earth dist.	608 Sep 04 j 19:11	18°♏46'12	0.65169 AU	desc. node	609 Jul 15 j 02:11	19°♏28'14	
inferior conj	608 Sep 06 j 20:21	16°♏27'15	-2°37'19		609 Jul 24 j 00:42	0°♏	

evening max el	609 Jul 25 j 04:53	1° \mathbb{M} 08'54	27°25'23	retrograde	610 Jul 21 j 08:59	21° Ω 03'29	
retrograde	609 Aug 07 j 20:25	8° \mathbb{M} 27'58		evening set	610 Jul 28 j 11:58	18° Ω 42'48	
evening set	609 Aug 15 j 00:46	5° \mathbb{M} 48'26		min. Earth dist.	610 Aug 01 j 02:30	15° Ω 55'44	0.61819 AU
min. Earth dist.	609 Aug 18 j 16:03	2° \mathbb{M} 36'22	0.63654 AU	inferior conj	610 Aug 04 j 04:06	13° Ω 09'09	-4°14'26
inferior conj	609 Aug 21 j 06:07	29° Ω 57'46	-3°29'55	minimum elong	610 Aug 04 j 08:45	12° Ω 58'35	4°13'31
minimum elong	609 Aug 21 j 10:59	29° Ω 45'17	3°28'30	morning rise	610 Aug 11 j 07:00	8° Ω 10'45	
	609 Aug 21 j 05:15	30° \mathbb{R} Ω		direct	610 Aug 13 j 18:11	7° Ω 44'44	
morning rise	609 Aug 27 j 22:18	24° Ω 39'26		asc. node	610 Aug 19 j 16:59	10° Ω 20'31	
direct	609 Aug 30 j 11:31	24° Ω 07'35		morning max el	610 Aug 20 j 15:50	11° Ω 12'58	17°56'00
asc. node	609 Sep 01 j 19:57	24° Ω 35'05			610 Sep 02 j 03:40	0° \mathbb{M}	
morning max el	609 Sep 06 j 01:08	27° Ω 33'22	17°54'02	morning set	610 Sep 05 j 15:12	6° \mathbb{M} 18'05	
	609 Sep 08 j 05:32	0° \mathbb{M}					
morning set	609 Sep 22 j 19:00	23° \mathbb{M} 20'19		superior conj	610 Sep 16 j 06:20	25° \mathbb{M} 16'25	1°13'10
	609 Sep 26 j 15:35	0° $\underline{\Omega}$		minimum elong	610 Sep 16 j 11:07	25° \mathbb{M} 37'07	1°12'37
					610 Sep 19 j 00:32	0° $\underline{\Omega}$	
superior conj	609 Oct 05 j 03:46	14° $\underline{\Omega}$ 18'55	0°38'49	max. Earth dist.	610 Sep 23 j 15:45	7° $\underline{\Omega}$ 44'11	1.42650 AU
minimum elong	609 Oct 05 j 07:40	14° $\underline{\Omega}$ 34'57	0°38'18	desc. node	610 Sep 27 j 22:31	14° $\underline{\Omega}$ 40'21	
max. Earth dist.	609 Oct 11 j 02:35	23° $\underline{\Omega}$ 58'08	1.44083 AU	evening rise	610 Sep 30 j 11:30	18° $\underline{\Omega}$ 42'08	
desc. node	609 Oct 11 j 01:29	23° $\underline{\Omega}$ 53'43			610 Oct 07 j 19:22	0° \mathbb{M}	
	609 Oct 14 j 21:49	0° \mathbb{M}			610 Oct 29 j 09:30	0° \mathbb{M}	
evening rise	609 Oct 21 j 00:06	9° \mathbb{M} 29'25		evening max el	610 Nov 01 j 08:49	3° \mathbb{M} 15'27	21°54'29
	609 Nov 03 j 14:18	0° \mathbb{M}		retrograde	610 Nov 10 j 13:46	8° \mathbb{M} 43'58	
evening max el	609 Nov 18 j 12:37	19° \mathbb{M} 45'19	20°41'39	evening set	610 Nov 14 j 22:31	7° \mathbb{M} 00'10	
retrograde	609 Nov 26 j 17:17	24° \mathbb{M} 35'56		asc. node	610 Nov 15 j 16:13	6° \mathbb{M} 21'43	
asc. node	609 Nov 28 j 19:13	24° \mathbb{M} 11'27		inferior conj	610 Nov 20 j 06:55	0° \mathbb{M} 42'43	1°32'07
evening set	609 Nov 30 j 14:49	23° \mathbb{M} 08'47		minimum elong	610 Nov 20 j 04:58	0° \mathbb{M} 49'29	1°31'22
inferior conj	609 Dec 06 j 00:18	16° \mathbb{M} 59'33	2°17'19	min. Earth dist.	610 Nov 20 j 09:03	0° \mathbb{M} 35'20	0.67658 AU
minimum elong	609 Dec 05 j 21:43	17° \mathbb{M} 08'19	2°16'28		610 Nov 20 j 19:16	30° \mathbb{M}	
min. Earth dist.	609 Dec 06 j 13:48	16° \mathbb{M} 13'27	0.67270 AU	morning rise	610 Nov 25 j 11:15	24° \mathbb{M} 30'31	
morning rise	609 Dec 11 j 04:26	10° \mathbb{M} 46'12		direct	610 Nov 30 j 07:56	22° \mathbb{M} 27'23	
direct	609 Dec 16 j 16:19	8° \mathbb{M} 21'03		morning max el	610 Dec 10 j 04:33	28° \mathbb{M} 18'01	22°47'36
morning max el	609 Dec 27 j 18:40	14° \mathbb{M} 58'18	24°15'42		610 Dec 11 j 19:22	0° \mathbb{M}	
desc. node	610 Jan 07 j 00:44	27° \mathbb{M} 12'59		desc. node	610 Dec 24 j 21:45	16° \mathbb{M} 52'11	
	610 Jan 09 j 02:07	0° \mathbb{M}			611 Jan 02 j 19:35	0° \mathbb{M}	
	610 Jan 28 j 17:49	0° \approx		morning set	611 Jan 13 j 10:11	16° \mathbb{M} 49'05	
morning set	610 Feb 01 j 14:59	6° \approx 37'14		max. Earth dist.	611 Jan 18 j 03:55	24° \mathbb{M} 46'46	1.40098 AU
max. Earth dist.	610 Feb 05 j 08:11	13° \approx 11'37	1.37958 AU		611 Jan 21 j 04:12	0° \approx	
superior conj	610 Feb 12 j 08:41	26° \approx 15'11	-1°43'36	superior conj	611 Jan 25 j 22:22	8° \approx 30'29	-1°58'38
minimum elong	610 Feb 12 j 12:37	26° \approx 34'04	1°43'13	minimum elong	611 Jan 26 j 00:58	8° \approx 42'20	1°58'31
	610 Feb 14 j 07:15	0° \mathbb{H}		evening rise	611 Feb 04 j 17:05	26° \approx 50'35	
evening rise	610 Feb 21 j 03:02	13° \mathbb{H} 26'57			611 Feb 06 j 09:02	0° \mathbb{H}	
asc. node	610 Feb 24 j 18:33	20° \mathbb{H} 33'04		asc. node	611 Feb 11 j 15:34	9° \mathbb{H} 40'58	
	610 Mar 02 j 00:35	0° \mathbb{Y}		evening max el	611 Feb 20 j 22:34	22° \mathbb{H} 53'08	18°26'06
evening max el	610 Mar 09 j 18:24	10° \mathbb{Y} 20'52	19°03'16	retrograde	611 Feb 28 j 09:10	26° \mathbb{H} 33'11	
retrograde	610 Mar 18 j 09:15	14° \mathbb{Y} 30'31		evening set	611 Mar 02 j 19:58	26° \mathbb{H} 10'30	
evening set	610 Mar 20 j 14:39	14° \mathbb{Y} 15'03		inferior conj	611 Mar 10 j 04:08	21° \mathbb{H} 36'47	3°05'08
inferior conj	610 Mar 28 j 17:26	10° \mathbb{Y} 01'25	1°57'48	minimum elong	611 Mar 10 j 07:54	21° \mathbb{H} 29'06	3°04'22
minimum elong	610 Mar 28 j 21:26	9° \mathbb{Y} 54'28	1°56'36	min. Earth dist.	611 Mar 13 j 14:34	18° \mathbb{H} 50'35	0.58707 AU
min. Earth dist.	610 Mar 31 j 19:35	7° \mathbb{Y} 53'34	0.56802 AU	morning rise	611 Mar 17 j 17:14	16° \mathbb{H} 08'06	
desc. node	610 Apr 04 j 23:56	5° \mathbb{Y} 28'48		desc. node	611 Mar 22 j 20:58	14° \mathbb{H} 33'05	
morning rise	610 Apr 06 j 01:13	5° \mathbb{Y} 01'41		direct	611 Mar 23 j 19:59	14° \mathbb{H} 30'41	
direct	610 Apr 11 j 03:52	4° \mathbb{Y} 00'11		morning max el	611 Apr 07 j 04:26	22° \mathbb{H} 10'58	26°54'24
morning max el	610 Apr 25 j 10:04	11° \mathbb{Y} 21'47	25°37'46		611 Apr 14 j 01:49	0° \mathbb{Y}	
	610 May 09 j 17:24	0° \mathbb{B}			611 May 02 j 13:50	0° \mathbb{B}	
morning set	610 May 22 j 18:56	24° \mathbb{B} 31'10		morning set	611 May 07 j 04:59	9° \mathbb{B} 22'14	
asc. node	610 May 23 j 17:48	26° \mathbb{B} 32'19		asc. node	611 May 10 j 14:51	16° \mathbb{B} 38'48	
	610 May 25 j 08:30	0° \mathbb{H}					
				superior conj	611 May 14 j 06:22	24° \mathbb{B} 37'32	0°37'46
superior conj	610 May 29 j 18:38	9° \mathbb{H} 39'15	0°59'57	minimum elong	611 May 14 j 04:47	24° \mathbb{B} 28'48	0°37'26
minimum elong	610 May 29 j 16:23	9° \mathbb{H} 27'00	0°59'32	max. Earth dist.	611 May 14 j 04:20	24° \mathbb{B} 26'21	1.32305 AU
max. Earth dist.	610 May 30 j 15:52	11° \mathbb{H} 35'21	1.32615 AU		611 May 16 j 17:08	0° \mathbb{H}	
evening rise	610 Jun 05 j 20:24	24° \mathbb{H} 48'28		evening rise	611 May 21 j 04:14	9° \mathbb{H} 35'50	
	610 Jun 08 j 09:44	0° \mathbb{B}			611 May 31 j 18:03	0° \mathbb{B}	
	610 Jun 25 j 23:27	0° Ω		desc. node	611 Jun 18 j 20:15	24° \mathbb{B} 59'31	
desc. node	610 Jul 01 j 23:13	7° Ω 49'21		evening max el	611 Jun 19 j 13:44	25° \mathbb{B} 41'58	26°28'04
evening max el	610 Jul 07 j 12:23	13° Ω 47'20	27°13'17		611 Jun 24 j 22:04	0° Ω	

retrograde	611 Jul 03 j 13:31	2°♎55'21			612 May 25 j 04:58	0°♏	
evening set	611 Jul 10 j 03:45	1°♎06'09		evening max el	612 May 31 j 08:06	6°♏51'33	25°14'05
	611 Jul 11 j 23:49	30°♎		desc. node	612 Jun 04 j 17:16	10°♏30'13	
min. Earth dist.	611 Jul 14 j 02:50	28°♏29'19	0.59783 AU	retrograde	612 Jun 14 j 08:32	14°♏00'08	
inferior conj	611 Jul 17 j 10:45	25°♏51'44	-4°43'36	evening set	612 Jun 19 j 20:38	12°♏49'53	
minimum elong	611 Jul 17 j 13:15	25°♏46'46	4°43'24	min. Earth dist.	612 Jun 24 j 19:50	10°♏04'46	0.57765 AU
morning rise	611 Jul 25 j 00:47	21°♏15'52		inferior conj	612 Jun 27 j 22:44	7°♏56'38	-4°46'31
direct	611 Jul 27 j 12:14	20°♏53'43		minimum elong	612 Jun 27 j 20:56	7°♏59'46	4°46'26
morning max el	611 Aug 04 j 02:21	24°♏33'54	18°17'28	morning rise	612 Jul 05 j 23:55	3°♏43'03	
asc. node	611 Aug 06 j 14:02	27°♏17'31		direct	612 Jul 08 j 13:15	3°♏23'29	
	611 Aug 08 j 14:56	0°♎		morning max el	612 Jul 17 j 05:42	7°♏27'48	18°59'29
morning set	611 Aug 20 j 01:45	19°♎57'03		asc. node	612 Jul 23 j 11:07	15°♏11'33	
	611 Aug 25 j 09:05	0°♎			612 Jul 31 j 20:04	0°♎	
				morning set	612 Aug 02 j 22:31	4°♎06'42	
superior conj	611 Aug 29 j 09:43	7°♎27'20	1°34'47	superior conj	612 Aug 11 j 08:25	20°♎36'28	1°45'05
minimum elong	611 Aug 29 j 13:03	7°♎42'27	1°34'32	minimum elong	612 Aug 11 j 09:39	20°♎42'24	1°45'03
max. Earth dist.	611 Sep 05 j 23:21	20°♎49'30	1.40793 AU		612 Aug 16 j 08:37	0°♎	
evening rise	611 Sep 10 j 17:09	28°♎45'48		max. Earth dist.	612 Aug 18 j 02:42	3°♎10'48	1.38769 AU
	611 Sep 11 j 11:18	0°♏		evening rise	612 Aug 21 j 23:25	9°♎59'03	
desc. node	611 Sep 14 j 19:33	5°♏22'39		desc. node	612 Aug 31 j 16:35	25°♎56'55	
	611 Oct 01 j 09:11	0°♎			612 Sep 03 j 07:35	0°♏	
evening max el	611 Oct 15 j 00:02	16°♎46'51	23°13'40		612 Sep 26 j 03:39	0°♎	
retrograde	611 Oct 25 j 07:41	22°♎53'39		evening max el	612 Sep 26 j 12:19	0°♎21'37	24°33'03
evening set	611 Oct 30 j 05:25	20°♎52'10		retrograde	612 Oct 07 j 21:57	7°♎01'25	
asc. node	611 Nov 02 j 13:15	17°♎14'55		evening set	612 Oct 13 j 09:50	4°♎42'42	
min. Earth dist.	611 Nov 04 j 05:41	14°♎59'19	0.67705 AU		612 Oct 17 j 14:18	30°♎	
inferior conj	611 Nov 04 j 14:08	14°♎30'14	0°41'50	min. Earth dist.	612 Oct 18 j 01:22	29°♏23'23	0.67428 AU
minimum elong	611 Nov 04 j 13:10	14°♎33'34	0°41'25	inferior conj	612 Oct 18 j 20:15	28°♏20'16	-0°12'09
morning rise	611 Nov 09 j 20:52	8°♎21'16		minimum elong	612 Oct 18 j 20:33	28°♏19'17	0°12'02
direct	611 Nov 14 j 03:01	6°♎40'55		transit middle	612 Oct 18 j 20:33	28°♏19'17	0°12'02
morning max el	611 Nov 22 j 19:38	11°♎46'01	21°23'53	transit begin	612 Oct 18 j 18:42	28°♏25'27	
	611 Dec 07 j 00:55	0°♎		transit end	612 Oct 18 j 22:24	28°♏13'07	
desc. node	611 Dec 11 j 18:48	6°♎55'43		asc. node	612 Oct 19 j 10:19	27°♏33'26	
morning set	611 Dec 24 j 00:40	25°♎40'10		morning rise	612 Oct 24 j 07:21	22°♏16'57	
	611 Dec 26 j 18:01	0°♏		direct	612 Oct 28 j 00:33	20°♏57'36	
max. Earth dist.	611 Dec 31 j 05:15	7°♏15'13	1.42114 AU	morning max el	612 Nov 04 j 18:05	25°♏24'15	20°10'32
superior conj	612 Jan 07 j 14:49	19°♏43'14	-2°02'37		612 Nov 08 j 18:40	0°♎	
minimum elong	612 Jan 07 j 13:50	19°♏39'02	2°02'36	desc. node	612 Nov 27 j 15:50	27°♎16'38	
	612 Jan 13 j 11:09	0°♏			612 Nov 29 j 10:28	0°♎	
evening rise	612 Jan 18 j 18:14	9°♏34'04		morning set	612 Dec 01 j 21:38	3°♎48'02	
asc. node	612 Jan 29 j 12:36	28°♏17'58		max. Earth dist.	612 Dec 12 j 13:52	20°♎34'53	1.43734 AU
	612 Jan 30 j 15:44	0°♎					
evening max el	612 Feb 04 j 08:19	5°♎49'51	18°08'56	superior conj	612 Dec 18 j 05:21	29°♎43'44	-1°50'49
retrograde	612 Feb 11 j 02:19	9°♎16'09		minimum elong	612 Dec 17 j 23:19	29°♎19'01	1°50'26
evening set	612 Feb 13 j 18:02	8°♎44'39			612 Dec 18 j 09:19	0°♏	
inferior conj	612 Feb 20 j 10:49	3°♎49'59	3°39'34	evening rise	612 Dec 31 j 02:13	21°♏28'48	
minimum elong	612 Feb 20 j 12:36	3°♎45'45	3°39'24		613 Jan 05 j 00:28	0°♏	
min. Earth dist.	612 Feb 23 j 16:05	0°♎49'15	0.60817 AU	asc. node	613 Jan 15 j 09:39	16°♏14'30	
	612 Feb 24 j 14:41	30°♎		evening max el	613 Jan 17 j 20:40	19°♏02'58	18°11'11
morning rise	612 Feb 27 j 05:24	28°♏01'37		retrograde	613 Jan 24 j 08:19	22°♏29'14	
direct	612 Mar 04 j 23:44	25°♏47'55		evening set	613 Jan 27 j 04:43	21°♏47'49	
desc. node	612 Mar 08 j 18:00	26°♏26'16		inferior conj	613 Feb 02 j 09:46	16°♏32'59	3°48'12
	612 Mar 15 j 01:58	0°♎		minimum elong	613 Feb 02 j 09:27	16°♏33'47	3°48'11
morning max el	612 Mar 19 j 05:11	3°♎38'43	27°39'03	min. Earth dist.	613 Feb 05 j 02:21	13°♏41'28	0.62842 AU
	612 Apr 07 j 15:34	0°♎		morning rise	613 Feb 08 j 13:13	10°♏33'02	
morning set	612 Apr 20 j 11:34	24°♎01'05		direct	613 Feb 15 j 12:52	7°♏52'49	
	612 Apr 23 j 08:01	0°♏		desc. node	613 Feb 23 j 15:03	10°♏50'17	
asc. node	612 Apr 26 j 11:55	6°♏49'25		morning max el	613 Mar 01 j 11:19	15°♏46'45	27°46'33
max. Earth dist.	612 Apr 26 j 16:20	7°♏13'28	1.32362 AU		613 Mar 13 j 03:42	0°♎	
					613 Mar 31 j 06:29	0°♎	
superior conj	612 Apr 27 j 17:35	9°♏31'30	0°13'04	morning set	613 Apr 04 j 12:25	8°♎19'15	
minimum elong	612 Apr 27 j 16:59	9°♏28'15	0°12'57	max. Earth dist.	613 Apr 09 j 23:47	19°♎41'57	1.32815 AU
behind sun begin	612 Apr 27 j 14:03	9°♏12'11					
behind sun end	612 Apr 27 j 19:55	9°♏44'18		superior conj	613 Apr 12 j 02:29	24°♎14'16	-0°13'24
evening rise	612 May 04 j 15:03	24°♏29'36		minimum elong	613 Apr 12 j 03:08	24°♎17'43	0°13'15
	612 May 07 j 06:35	0°♎		behind sun begin	613 Apr 12 j 00:14	24°♎02'03	

behind sun end	613 Apr 12 j 06:02	24° Υ 33'24		minimum elong	614 Mar 27 j 09:12	8° Υ 50'31	0°40'11
asc. node	613 Apr 13 j 08:58	26° Υ 59'12		asc. node	614 Mar 31 j 06:01	17° Υ 04'25	
	613 Apr 14 j 18:17	0° B		evening rise	614 Apr 03 j 13:54	24° Υ 07'36	
evening rise	613 Apr 19 j 02:52	9° B 22'08			614 Apr 06 j 10:19	0° B	
	613 Apr 29 j 20:09	0° Π		evening max el	614 Apr 24 j 15:29	28° B 04'59	22°07'09
evening max el	613 May 12 j 22:27	17° Π 29'38	23°42'12		614 Apr 26 j 19:09	0° Π	
desc. node	613 May 22 j 14:19	23° Π 44'28		retrograde	614 May 07 j 09:50	4° Π 21'16	
retrograde	613 May 26 j 15:31	24° Π 21'47		desc. node	614 May 09 j 11:20	4° Π 11'46	
evening set	613 May 30 j 16:29	23° Π 45'49		evening set	614 May 10 j 04:18	4° Π 04'17	
min. Earth dist.	613 Jun 06 j 09:10	20° Π 37'25	0.56094 AU	min. Earth dist.	614 May 18 j 21:29	0° Π 20'45	0.55118 AU
inferior conj	613 Jun 08 j 14:30	19° Π 16'52	-4°09'55	inferior conj	614 May 19 j 13:49	29° B 57'48	-2°46'58
minimum elong	613 Jun 08 j 08:06	19° Π 26'36	4°08'42	minimum elong	614 May 19 j 06:48	0° Π 07'40	2°44'49
morning rise	613 Jun 17 j 02:28	15° Π 19'30			614 May 19 j 12:15	30° R B	
direct	613 Jun 19 j 18:55	15° Π 01'17		morning rise	614 May 28 j 10:50	26° B 03'41	
morning max el	613 Jun 29 j 23:02	19° Π 43'50	20°02'39	direct	614 May 31 j 09:29	25° B 44'14	
	613 Jul 08 j 01:13	0° B			614 Jun 10 j 18:11	0° Π	
asc. node	613 Jul 10 j 08:12	3° B 48'31		morning max el	614 Jun 12 j 04:58	1° Π 15'59	21°25'35
morning set	613 Jul 18 j 02:18	18° B 37'42		asc. node	614 Jun 27 j 05:15	22° Π 58'01	
	613 Jul 23 j 16:01	0° B			614 Jun 30 j 18:58	0° B	
				morning set	614 Jul 02 j 10:40	3° B 23'33	
superior conj	613 Jul 25 j 21:01	4° B 27'36	1°46'10				
minimum elong	613 Jul 25 j 20:27	4° B 24'47	1°46'10	superior conj	614 Jul 09 j 19:23	18° B 48'34	1°39'57
max. Earth dist.	613 Jul 31 j 07:13	15° B 04'07	1.36825 AU	minimum elong	614 Jul 09 j 17:37	18° B 39'21	1°39'49
evening rise	613 Aug 04 j 04:31	22° B 17'55		max. Earth dist.	614 Jul 13 j 18:51	26° B 56'31	1.35155 AU
	613 Aug 08 j 12:53	0° B			614 Jul 15 j 07:44	0° B	
desc. node	613 Aug 18 j 13:38	16° B 17'54		evening rise	614 Jul 18 j 03:51	5° B 30'13	
	613 Aug 28 j 02:49	0° B			614 Aug 01 j 06:57	0° B	
evening max el	613 Sep 09 j 00:02	13° B 59'46	25°45'23	desc. node	614 Aug 05 j 10:40	6° B 19'06	
retrograde	613 Sep 21 j 07:38	21° B 02'24		evening max el	614 Aug 22 j 12:09	27° B 35'42	26°42'50
evening set	613 Sep 27 j 09:56	18° B 28'57			614 Aug 25 j 04:15	0° B	
min. Earth dist.	613 Oct 01 j 17:38	13° B 45'12	0.66825 AU	retrograde	614 Sep 04 j 12:00	4° B 50'23	
inferior conj	613 Oct 02 j 23:27	12° B 10'21	-1°08'24	evening set	614 Sep 11 j 03:36	2° B 07'16	
minimum elong	613 Oct 03 j 01:12	12° B 04'47	1°07'40		614 Sep 13 j 09:19	30° R B	
asc. node	613 Oct 06 j 07:23	8° B 14'39		min. Earth dist.	614 Sep 15 j 04:00	28° B 00'35	0.65878 AU
morning rise	613 Oct 08 j 16:44	6° B 15'27		inferior conj	614 Sep 16 j 21:45	25° B 56'45	-2°05'13
direct	613 Oct 11 j 23:06	5° B 13'57		minimum elong	614 Sep 17 j 00:59	25° B 47'10	2°03'58
morning max el	613 Oct 18 j 24:00	9° B 11'38	19°11'14	morning rise	614 Sep 22 j 22:51	20° B 13'30	
	613 Nov 03 j 01:48	0° B		asc. node	614 Sep 23 j 04:27	20° B 06'16	
morning set	613 Nov 11 j 01:33	12° B 24'35		direct	614 Sep 25 j 20:42	19° B 26'12	
desc. node	613 Nov 14 j 12:53	17° B 49'52		morning max el	614 Oct 02 j 11:47	23° B 04'28	18°27'51
	613 Nov 22 j 07:24	0° B			614 Oct 08 j 01:22	0° B	
max. Earth dist.	613 Nov 25 j 04:54	4° B 33'29	1.44759 AU	morning set	614 Oct 22 j 07:00	22° B 20'14	
					614 Oct 27 j 01:29	0° B	
superior conj	613 Nov 27 j 18:42	8° B 37'45	-1°20'24	desc. node	614 Nov 01 j 09:54	8° B 31'04	
minimum elong	613 Nov 27 j 10:14	8° B 04'13	1°19'31				
	613 Dec 11 j 00:52	0° B		superior conj	614 Nov 06 j 19:26	17° B 02'10	-0°35'09
evening rise	613 Dec 12 j 12:46	2° B 27'29		minimum elong	614 Nov 06 j 14:51	16° B 44'06	0°34'32
	613 Dec 30 j 05:14	0° B		max. Earth dist.	614 Nov 07 j 23:39	18° B 53'05	1.45073 AU
evening max el	614 Jan 01 j 08:51	2° B 25'53	18°32'03		614 Nov 15 j 01:32	0° B	
asc. node	614 Jan 02 j 06:42	3° B 18'39		evening rise	614 Nov 22 j 23:39	12° B 27'58	
retrograde	614 Jan 07 j 22:49	6° B 03'52		greatest brilliancy	614 Dec 02 j 18:39	27° B 52'42	-0.8m
evening set	614 Jan 11 j 00:27	5° B 11'27			614 Dec 04 j 03:32	0° B	
inferior conj	614 Jan 16 j 20:57	29° B 38'02	3°38'03	evening max el	614 Dec 15 j 18:23	15° B 52'50	19°10'21
minimum elong	614 Jan 16 j 19:09	29° B 43'21	3°37'50	asc. node	614 Dec 20 j 03:44	19° B 15'37	
	614 Jan 16 j 13:30	30° R B		retrograde	614 Dec 22 j 18:17	19° B 52'49	
min. Earth dist.	614 Jan 18 j 22:09	27° B 13'19	0.64579 AU	evening set	614 Dec 26 j 02:18	18° B 48'06	
morning rise	614 Jan 22 j 13:22	23° B 31'17		inferior conj	614 Dec 31 j 16:53	12° B 58'16	3°14'17
direct	614 Jan 29 j 09:23	20° B 39'34		minimum elong	614 Dec 31 j 14:18	13° B 06'29	3°13'44
desc. node	614 Feb 10 j 12:05	27° B 09'14		min. Earth dist.	615 Jan 02 j 02:57	11° B 09'58	0.65934 AU
morning max el	614 Feb 11 j 20:24	28° B 27'39	27°18'44	morning rise	615 Jan 06 j 02:03	6° B 47'26	
	614 Feb 13 j 08:09	0° B		direct	615 Jan 12 j 12:03	3° B 58'25	
	614 Mar 06 j 22:23	0° B		morning max el	615 Jan 25 j 05:59	11° B 29'20	26°21'56
morning set	614 Mar 19 j 04:47	22° B 08'04		desc. node	615 Jan 28 j 09:06	14° B 50'16	
	614 Mar 23 j 03:14	0° B			615 Feb 09 j 01:26	0° B	
max. Earth dist.	614 Mar 23 j 22:58	1° B 41'07	1.33700 AU		615 Feb 27 j 12:27	0° B	
				morning set	615 Mar 02 j 08:53	5° B 15'42	
superior conj	614 Mar 27 j 07:13	8° B 40'02	-0°40'36	max. Earth dist.	615 Mar 06 j 10:59	13° B 06'43	1.35036 AU

superior conj	615 Mar 11 j 05:23	22° H 41'08	-1°07'17	max. Earth dist.	616 Feb 16 j 12:03	24° \approx 10'36	1.36798 AU
minimum elong	615 Mar 11 j 08:36	22° H 57'37	1°06'44		616 Feb 19 j 14:06	0° H	
	615 Mar 14 j 18:15	0° Y					
asc. node	615 Mar 18 j 03:03	7° Y 00'24		superior conj	616 Feb 22 j 18:06	6° H 09'19	-1°31'38
evening rise	615 Mar 18 j 22:12	8° Y 39'15		minimum elong	616 Feb 22 j 22:04	6° H 28'49	1°31'07
	615 Mar 30 j 11:32	0° B		evening rise	616 Mar 02 j 01:35	22° H 50'18	
evening max el	615 Apr 06 j 17:21	9° B 04'40	20°41'50	asc. node	616 Mar 04 j 00:05	26° H 42'18	
retrograde	615 Apr 17 j 22:44	14° B 30'30			616 Mar 05 j 16:30	0° Y	
evening set	615 Apr 20 j 02:24	14° B 19'19		evening max el	616 Mar 19 j 06:39	20° Y 42'11	19°33'35
desc. node	615 Apr 26 j 08:19	12° B 01'01		retrograde	616 Mar 28 j 19:02	25° Y 16'54	
inferior conj	615 Apr 29 j 07:56	10° B 21'38	-0°51'38	evening set	616 Mar 30 j 21:38	25° Y 04'24	
minimum elong	615 Apr 29 j 05:30	10° B 25'08	0°50'45	inferior conj	616 Apr 08 j 11:27	20° Y 59'37	1°03'13
min. Earth dist.	615 Apr 30 j 10:19	9° B 43'50	0.55056 AU	minimum elong	616 Apr 08 j 14:03	20° Y 55'28	1°02'21
morning rise	615 May 08 j 07:52	6° B 12'09		min. Earth dist.	616 Apr 11 j 00:44	19° Y 22'05	0.55932 AU
direct	615 May 11 j 19:56	5° B 45'42		desc. node	616 Apr 12 j 05:20	18° Y 38'44	
morning max el	615 May 25 j 01:05	12° B 08'39	23°02'59	morning rise	616 Apr 17 j 03:49	16° Y 18'58	
	615 Jun 07 j 09:41	0° II		direct	616 Apr 21 j 14:41	15° Y 34'21	
asc. node	615 Jun 14 j 02:18	12° II 31'51		morning max el	616 May 05 j 16:10	22° Y 39'26	24°44'00
morning set	615 Jun 16 j 21:41	18° II 18'37			616 May 12 j 04:26	0° B	
	615 Jun 22 j 09:09	0° E			616 May 29 j 19:54	0° II	
				asc. node	616 May 30 j 23:20	2° II 22'42	
superior conj	615 Jun 24 j 00:23	3° E 30'04	1°27'56	morning set	616 May 31 j 09:35	3° II 16'34	
minimum elong	615 Jun 23 j 22:01	3° E 17'23	1°27'39				
max. Earth dist.	615 Jun 26 j 15:55	9° E 06'21	1.33854 AU	superior conj	616 Jun 07 j 09:32	18° II 23'27	1°11'17
evening rise	615 Jul 01 j 16:45	19° E 23'05		minimum elong	616 Jun 07 j 07:06	18° II 10'15	1°10'53
	615 Jul 07 j 06:27	0° O		max. Earth dist.	616 Jun 08 j 21:15	21° II 37'05	1.32949 AU
desc. node	615 Jul 23 j 07:41	25° O 51'58			616 Jun 12 j 19:49	0° E	
	615 Jul 26 j 09:09	0° P		evening rise	616 Jun 14 j 15:18	3° E 44'25	
evening max el	615 Aug 04 j 23:56	10° P 59'11	27°17'52		616 Jun 29 j 00:17	0° O	
retrograde	615 Aug 18 j 10:43	18° P 18'01		desc. node	616 Jul 09 j 04:42	14° O 43'51	
evening set	615 Aug 25 j 12:15	15° P 33'40		evening max el	616 Jul 17 j 09:28	23° O 56'42	27°24'15
min. Earth dist.	615 Aug 29 j 06:10	12° P 03'15	0.64569 AU		616 Jul 25 j 19:23	0° P	
inferior conj	615 Aug 31 j 12:51	9° P 34'59	-3°00'16	retrograde	616 Jul 31 j 03:24	1° P 15'12	
minimum elong	615 Aug 31 j 17:19	9° P 22'53	2°58'48		616 Aug 05 j 04:31	30° R 0	
morning rise	615 Sep 06 j 23:13	4° P 06'48		evening set	616 Aug 07 j 08:29	28° O 41'34	
direct	615 Sep 09 j 14:56	3° P 30'12		min. Earth dist.	616 Aug 10 j 22:29	25° O 41'57	0.62906 AU
asc. node	615 Sep 10 j 01:28	3° P 31'13		inferior conj	616 Aug 13 j 17:58	22° O 57'53	-3°50'08
morning max el	615 Sep 16 j 03:02	6° P 57'54	18°01'24	minimum elong	616 Aug 13 j 22:56	22° O 45'48	3°48'54
	615 Oct 01 j 12:53	0° A		morning rise	616 Aug 20 j 14:41	17° O 48'00	
morning set	615 Oct 03 j 16:59	3° A 39'47		direct	616 Aug 23 j 02:42	17° O 19'00	
				asc. node	616 Aug 26 j 22:31	18° O 28'17	
superior conj	615 Oct 17 j 05:34	25° A 59'16	0°13'41	morning max el	616 Aug 29 j 18:50	20° O 44'38	17°52'40
minimum elong	615 Oct 17 j 07:10	26° A 05'46	0°13'27		616 Sep 05 j 17:40	0° P	
behind sun begin	615 Oct 17 j 01:16	25° A 42'01		morning set	616 Sep 15 j 02:24	16° P 06'02	
behind sun end	615 Oct 17 j 13:05	26° A 29'29			616 Sep 23 j 01:08	0° A	
desc. node	615 Oct 19 j 06:57	29° A 17'10					
	615 Oct 19 j 17:42	0° M		superior conj	616 Sep 26 j 16:16	6° A 09'55	0°54'56
max. Earth dist.	615 Oct 21 j 18:33	3° M 14'03	1.44645 AU	minimum elong	616 Sep 26 j 20:58	6° A 29'37	0°54'20
evening rise	615 Nov 02 j 14:31	21° M 42'10		max. Earth dist.	616 Oct 03 j 10:01	17° A 15'37	1.43534 AU
	615 Nov 08 j 00:09	0° J		desc. node	616 Oct 05 j 04:00	20° A 04'18	
greatest brilliancy	615 Nov 16 j 15:25	13° J 01'52	-0.6m		616 Oct 11 j 11:13	0° M	
evening max el	615 Nov 28 j 23:22	29° J 21'19	20°04'19	evening rise	616 Oct 11 j 21:50	0° M 41'13	
	615 Nov 29 j 14:47	0° Z			616 Oct 31 j 16:03	0° J	
retrograde	615 Dec 06 j 15:53	3° Z 51'46		evening max el	616 Nov 10 j 22:42	12° J 50'14	21°11'27
asc. node	615 Dec 07 j 00:44	3° Z 51'00		retrograde	616 Nov 19 j 13:26	17° J 57'13	
evening set	615 Dec 10 j 07:56	2° Z 33'14		asc. node	616 Nov 22 j 21:45	16° J 54'21	
	615 Dec 13 j 00:39	30° R 0		evening set	616 Nov 23 j 15:25	16° J 23'11	
inferior conj	615 Dec 15 j 18:45	26° J 29'54	2°40'26	inferior conj	616 Nov 29 j 00:14	10° J 09'46	1°58'54
minimum elong	615 Dec 15 j 16:01	26° J 39'03	2°39'38	minimum elong	616 Nov 28 j 21:53	10° J 17'53	1°58'03
min. Earth dist.	615 Dec 16 j 15:15	25° J 21'15	0.66893 AU	min. Earth dist.	616 Nov 29 j 08:45	9° J 40'25	0.67474 AU
morning rise	615 Dec 20 j 23:55	20° J 16'50		morning rise	616 Dec 04 j 04:10	3° J 56'27	
direct	615 Dec 26 j 20:15	17° J 41'09		direct	616 Dec 09 j 09:27	1° J 40'27	
morning max el	616 Jan 07 j 14:48	24° J 41'46	25°05'01	morning max el	616 Dec 19 j 23:32	7° J 59'03	23°38'11
	616 Jan 12 j 09:59	0° Z		desc. node	617 Jan 01 j 03:12	22° J 50'52	
desc. node	616 Jan 15 j 06:08	3° Z 29'44			617 Jan 06 j 04:41	0° Z	
	616 Feb 02 j 12:39	0° \approx		morning set	617 Jan 24 j 07:14	28° Z 28'44	
morning set	616 Feb 12 j 19:44	17° \approx 27'57			617 Jan 25 j 04:39	0° \approx	

max. Earth dist.	617 Jan 28 j 07:03	5° \approx 22'51	1.38860 AU	morning set	618 Jan 04 j 13:56	8° \approx 04'42	
				max. Earth dist.	618 Jan 10 j 04:06	17° \approx 17'18	1.40984 AU
superior conj	617 Feb 04 j 17:37	18° \approx 55'04	-1°51'03	superior conj	618 Jan 17 j 23:00	0° \approx 45'38	-2°01'58
minimum elong	617 Feb 04 j 21:13	19° \approx 12'01	1°50'46	minimum elong	618 Jan 18 j 00:22	0° \approx 51'44	2°01'56
	617 Feb 10 j 12:32	0° \approx			618 Jan 17 j 12:43	0° \approx	
evening rise	617 Feb 13 j 21:27	6° \approx 33'55		evening rise	618 Jan 28 j 06:32	19° \approx 41'22	
asc. node	617 Feb 18 j 21:06	16° \approx 04'51		asc. node	618 Feb 02 j 20:52	0° \approx	
	617 Feb 27 j 14:23	0° \approx		evening max el	618 Feb 05 j 18:09	5° \approx 00'42	
evening max el	617 Mar 02 j 06:19	2° \approx 57'30	18°45'01	retrograde	618 Feb 13 j 13:21	15° \approx 41'49	18°16'25
retrograde	617 Mar 10 j 07:55	6° \approx 52'40		retrograde	618 Feb 20 j 15:23	19° \approx 13'46	
evening set	617 Mar 12 j 15:26	6° \approx 34'34		evening set	618 Feb 23 j 04:26	18° \approx 47'27	
inferior conj	617 Mar 20 j 10:04	2° \approx 13'02	2°30'40	inferior conj	618 Mar 02 j 05:38	14° \approx 05'06	3°23'20
minimum elong	617 Mar 20 j 14:19	2° \approx 05'08	2°29'34	minimum elong	618 Mar 02 j 08:40	13° \approx 58'32	3°22'51
	617 Mar 23 j 09:57	30° \approx 8'8		min. Earth dist.	618 Mar 05 j 15:22	11° \approx 09'28	0.59603 AU
min. Earth dist.	617 Mar 23 j 17:51	29° \approx 45'57	0.57558 AU	morning rise	618 Mar 09 j 10:37	8° \approx 27'05	
morning rise	617 Mar 28 j 10:09	26° \approx 59'33		direct	618 Mar 15 j 21:30	6° \approx 33'16	
desc. node	617 Mar 30 j 02:22	26° \approx 20'54		desc. node	618 Mar 16 j 23:25	6° \approx 36'23	
direct	617 Apr 02 j 23:42	25° \approx 43'24		morning max el	618 Mar 30 j 04:50	14° \approx 18'53	27°17'38
	617 Apr 13 j 14:06	0° \approx			618 Apr 11 j 19:03	0° \approx	
morning max el	617 Apr 17 j 08:02	3° \approx 15'17	26°13'38		618 Apr 28 j 19:01	0° \approx	
	617 May 06 j 12:49	0° \approx		morning set	618 Apr 30 j 05:37	2° \approx 58'19	
morning set	617 May 15 j 20:49	18° \approx 12'06		asc. node	618 May 04 j 17:28	12° \approx 33'38	
asc. node	617 May 17 j 20:24	22° \approx 25'09					
	617 May 21 j 08:02	0° \approx		superior conj	618 May 07 j 08:37	18° \approx 19'14	0°27'33
superior conj	617 May 22 j 20:53	3° \approx 22'12	0°50'54	minimum elong	618 May 07 j 07:25	18° \approx 12'37	0°27'19
minimum elong	617 May 22 j 18:52	3° \approx 11'10	0°50'31	max. Earth dist.	618 May 06 j 20:37	17° \approx 13'20	1.32286 AU
max. Earth dist.	617 May 23 j 08:01	4° \approx 23'17	1.32432 AU		618 May 12 j 17:05	0° \approx	
evening rise	617 May 29 j 20:30	18° \approx 25'03		evening rise	618 May 14 j 05:53	3° \approx 15'53	
	617 Jun 04 j 15:42	0° \approx			618 May 28 j 14:34	0° \approx	
	617 Jun 23 j 19:28	0° \approx		evening max el	618 Jun 11 j 13:00	17° \approx 52'11	25°59'42
desc. node	617 Jun 26 j 01:42	2° \approx 37'43		desc. node	618 Jun 12 j 22:43	19° \approx 09'21	
evening max el	617 Jun 29 j 14:29	6° \approx 16'55	26°58'01	retrograde	618 Jun 25 j 13:50	25° \approx 03'45	
retrograde	617 Jul 13 j 13:03	13° \approx 32'45		evening set	618 Jul 01 j 18:17	23° \approx 31'14	
evening set	617 Jul 20 j 12:01	11° \approx 23'58		min. Earth dist.	618 Jul 06 j 01:40	20° \approx 52'44	0.58903 AU
min. Earth dist.	617 Jul 24 j 04:36	8° \approx 43'16	0.60964 AU	inferior conj	618 Jul 09 j 08:57	18° \approx 25'27	-4°48'53
inferior conj	617 Jul 27 j 09:52	5° \approx 57'53	-4°29'16	minimum elong	618 Jul 09 j 09:52	18° \approx 23'46	4°48'52
minimum elong	617 Jul 27 j 13:53	5° \approx 49'14	4°28'40	morning rise	618 Jul 17 j 03:42	13° \approx 58'58	
morning rise	617 Aug 03 j 17:31	1° \approx 08'58		direct	618 Jul 19 j 15:45	13° \approx 38'02	
direct	617 Aug 06 j 04:23	0° \approx 44'57		morning max el	618 Jul 27 j 15:56	17° \approx 27'17	18°32'43
morning max el	617 Aug 13 j 08:09	4° \approx 17'16	18°02'39	asc. node	618 Jul 31 j 16:40	22° \approx 08'28	
asc. node	617 Aug 13 j 19:35	4° \approx 45'46			618 Aug 05 j 17:26	0° \approx	
morning set	617 Aug 29 j 05:16	29° \approx 22'14		morning set	618 Aug 12 j 20:38	13° \approx 15'23	
	617 Aug 29 j 13:24	0° \approx					
superior conj	617 Sep 08 j 05:56	17° \approx 39'44	1°23'50	superior conj	618 Aug 21 j 18:12	0° \approx 16'52	1°40'25
minimum elong	617 Sep 08 j 10:16	17° \approx 58'54	1°23'24	minimum elong	618 Aug 21 j 20:38	0° \approx 28'14	1°40'17
	617 Sep 15 j 09:57	0° \approx			618 Aug 21 j 14:35	0° \approx	
max. Earth dist.	617 Sep 15 j 20:10	0° \approx 42'37	1.41895 AU	max. Earth dist.	618 Aug 29 j 01:38	13° \approx 28'43	1.39939 AU
evening rise	617 Sep 21 j 15:29	10° \approx 11'10		evening rise	618 Sep 02 j 07:28	20° \approx 44'00	
desc. node	617 Sep 22 j 01:02	10° \approx 49'17			618 Sep 07 j 23:41	0° \approx	
	617 Oct 04 j 13:49	0° \approx		desc. node	618 Sep 08 j 22:04	1° \approx 28'38	
evening max el	617 Oct 24 j 16:35	26° \approx 20'22	22°27'49		618 Sep 28 j 17:18	0° \approx	
	617 Oct 28 j 21:36	0° \approx		evening max el	618 Oct 07 j 06:28	9° \approx 53'46	23°47'56
retrograde	617 Nov 03 j 09:01	2° \approx 05'50		retrograde	618 Oct 18 j 01:24	16° \approx 15'01	
evening set	617 Nov 07 j 22:59	0° \approx 14'49		evening set	618 Oct 23 j 05:01	14° \approx 06'16	
	617 Nov 08 j 06:00	30° \approx 8'8		asc. node	618 Oct 27 j 15:52	9° \approx 00'08	
asc. node	617 Nov 09 j 18:48	28° \approx 28'13		min. Earth dist.	618 Oct 28 j 01:31	8° \approx 27'26	0.67626 AU
inferior conj	617 Nov 13 j 07:22	23° \approx 55'00	1°11'23	inferior conj	618 Oct 28 j 14:20	7° \approx 43'52	0°19'21
minimum elong	617 Nov 13 j 05:47	24° \approx 00'28	1°10'44	minimum elong	618 Oct 28 j 13:52	7° \approx 45'27	0°19'09
min. Earth dist.	617 Nov 13 j 05:00	24° \approx 03'09	0.67713 AU	morning rise	618 Nov 02 j 22:39	1° \approx 36'57	
morning rise	617 Nov 18 j 12:25	17° \approx 43'38		direct	618 Nov 06 j 23:12	0° \approx 05'36	
direct	617 Nov 23 j 02:47	15° \approx 50'05		morning max el	618 Nov 15 j 05:03	4° \approx 52'56	20°51'10
morning max el	617 Dec 02 j 11:07	21° \approx 21'13	22°11'00		618 Dec 03 j 23:03	0° \approx	
	617 Dec 09 j 19:51	0° \approx		desc. node	618 Dec 05 j 21:18	2° \approx 53'07	
desc. node	617 Dec 19 j 00:15	12° \approx 41'20		morning set	618 Dec 14 j 18:34	16° \approx 29'41	
	617 Dec 30 j 11:57	0° \approx			618 Dec 23 j 06:24	0° \approx	
				max. Earth dist.	618 Dec 23 j 08:49	0° \approx 09'50	1.42869 AU

superior conj	618 Dec 30 j 04:55	11°♄28'52	-1°59'48	desc. node	619 Nov 22 j 18:20	23°♄19'32	
minimum elong	618 Dec 30 j 01:50	11°♄15'50	1°59'42	morning set	619 Nov 23 j 15:19	24°♄40'36	
	619 Jan 09 j 20:48	0°♄			619 Nov 27 j 01:41	0°♄	
evening rise	619 Jan 11 j 00:56	2°♄05'07		max. Earth dist.	619 Dec 05 j 20:56	13°♄49'38	1.44255 AU
asc. node	619 Jan 23 j 15:11	23°♄21'44					
evening max el	619 Jan 28 j 00:38	28°♄46'40	18°07'30	superior conj	619 Dec 10 j 07:58	20°♄57'55	-1°40'10
	619 Jan 29 j 09:03	0°♄		minimum elong	619 Dec 10 j 00:15	20°♄26'47	1°39'32
retrograde	619 Feb 03 j 14:34	2°♄11'03			619 Dec 15 j 20:58	0°♄	
evening set	619 Feb 06 j 08:23	1°♄35'16		evening rise	619 Dec 24 j 00:13	13°♄36'25	
	619 Feb 08 j 23:43	30°♄			620 Jan 02 j 18:58	0°♄	
inferior conj	619 Feb 12 j 19:44	26°♄31'41	3°45'53	asc. node	620 Jan 10 j 12:13	10°♄57'15	
minimum elong	619 Feb 12 j 20:35	26°♄29'33	3°45'50	evening max el	620 Jan 11 j 13:09	12°♄04'00	18°17'47
min. Earth dist.	619 Feb 15 j 20:07	23°♄32'34	0.61713 AU	retrograde	620 Jan 18 j 00:48	15°♄34'05	
morning rise	619 Feb 19 j 07:27	20°♄37'54		evening set	620 Jan 20 j 23:19	14°♄48'04	
direct	619 Feb 26 j 05:22	18°♄11'29		inferior conj	620 Jan 27 j 00:20	9°♄24'46	3°45'50
desc. node	619 Mar 03 j 20:28	19°♄37'34		minimum elong	620 Jan 26 j 23:19	9°♄27'37	3°45'46
morning max el	619 Mar 12 j 07:58	26°♄03'25	27°46'44	min. Earth dist.	620 Jan 29 j 10:20	6°♄43'15	0.63621 AU
	619 Mar 16 j 00:20	0°♄		morning rise	620 Feb 01 j 22:36	3°♄21'23	
	619 Apr 05 j 06:56	0°♄		direct	620 Feb 08 j 21:30	0°♄34'47	
morning set	619 Apr 14 j 10:03	17°♄28'51		desc. node	620 Feb 18 j 17:31	4°♄54'37	
	619 Apr 20 j 08:20	0°♄		morning max el	620 Feb 22 j 15:52	8°♄27'11	27°38'52
max. Earth dist.	619 Apr 20 j 07:17	29°♄54'19	1.32515 AU		620 Mar 10 j 08:39	0°♄	
					620 Mar 27 j 12:19	0°♄	
superior conj	619 Apr 21 j 19:04	3°♄08'47	0°02'01	morning set	620 Mar 28 j 07:44	1°♄36'05	
minimum elong	619 Apr 21 j 18:59	3°♄08'16	0°02'00	max. Earth dist.	620 Apr 02 j 11:57	12°♄13'00	1.33140 AU
behind sun begin	619 Apr 21 j 13:54	2°♄40'36					
behind sun end	619 Apr 22 j 00:03	3°♄35'57		superior conj	620 Apr 05 j 02:28	17°♄45'11	-0°24'53
asc. node	619 Apr 21 j 14:31	2°♄43'58		minimum elong	620 Apr 05 j 03:40	17°♄51'40	0°24'38
evening rise	619 Apr 28 j 17:22	18°♄09'50		asc. node	620 Apr 07 j 11:33	22°♄52'19	
	619 May 04 j 13:28	0°♄			620 Apr 10 j 19:06	0°♄	
evening max el	619 May 24 j 05:10	28°♄45'32	24°36'15	evening rise	620 Apr 12 j 05:07	3°♄00'29	
	619 May 25 j 13:29	0°♄			620 Apr 27 j 02:12	0°♄	
desc. node	619 May 30 j 19:44	3°♄46'25		evening max el	620 May 04 j 19:36	9°♄18'20	23°01'11
retrograde	619 Jun 07 j 03:26	5°♄48'14		desc. node	620 May 16 j 16:45	15°♄53'04	
evening set	619 Jun 12 j 01:16	4°♄53'57		retrograde	620 May 18 j 04:54	15°♄58'13	
min. Earth dist.	619 Jun 17 j 16:25	2°♄00'38	0.56995 AU	evening set	620 May 21 j 15:41	15°♄32'06	
inferior conj	619 Jun 20 j 12:16	0°♄11'14	-4°36'33	min. Earth dist.	620 May 29 j 04:49	12°♄10'26	0.55577 AU
minimum elong	619 Jun 20 j 08:18	0°♄17'40	4°36'06	inferior conj	620 May 30 j 20:10	11°♄13'20	-3°40'10
	619 Jun 20 j 19:11	30°♄		minimum elong	620 May 30 j 12:48	11°♄24'04	3°38'22
morning rise	619 Jun 28 j 18:05	26°♄05'33		morning rise	620 Jun 08 j 12:28	7°♄19'52	
direct	619 Jul 01 j 08:49	25°♄46'35		direct	620 Jun 11 j 06:58	7°♄01'40	
morning max el	619 Jul 10 j 15:10	0°♄05'11	19°23'50	morning max el	620 Jun 22 j 03:47	12°♄03'33	20°35'47
	619 Jul 10 j 12:56	0°♄		asc. node	620 Jul 04 j 10:48	29°♄13'54	
asc. node	619 Jul 18 j 13:45	10°♄21'47			620 Jul 04 j 20:56	0°♄	
morning set	619 Jul 27 j 20:43	27°♄34'54		morning set	620 Jul 11 j 02:44	12°♄13'26	
	619 Jul 29 j 01:43	0°♄					
				superior conj	620 Jul 18 j 16:37	27°♄50'56	1°44'20
superior conj	619 Aug 04 j 23:22	13°♄45'08	1°46'33	minimum elong	620 Jul 18 j 15:28	27°♄45'04	1°44'17
minimum elong	619 Aug 04 j 23:46	13°♄47'08	1°46'33		620 Jul 19 j 18:04	0°♄	
max. Earth dist.	619 Aug 11 j 05:13	25°♄37'02	1.37918 AU	max. Earth dist.	620 Jul 23 j 12:11	7°♄27'04	1.36070 AU
	619 Aug 13 j 15:06	0°♄		evening rise	620 Jul 27 j 13:21	15°♄09'03	
evening rise	619 Aug 14 j 23:52	2°♄25'44			620 Aug 04 j 23:46	0°♄	
desc. node	619 Aug 26 j 19:05	21°♄57'41		desc. node	620 Aug 12 j 16:06	12°♄11'12	
	619 Sep 01 j 03:17	0°♄			620 Aug 25 j 17:44	0°♄	
evening max el	619 Sep 19 j 18:19	23°♄30'02	25°05'10	evening max el	620 Sep 01 j 05:56	7°♄07'18	26°11'58
	619 Sep 29 j 06:01	0°♄		retrograde	620 Sep 13 j 21:06	14°♄16'40	
retrograde	619 Oct 01 j 13:35	0°♄20'16		evening set	620 Sep 20 j 05:26	11°♄37'56	
	619 Oct 03 j 18:23	30°♄		min. Earth dist.	620 Sep 24 j 09:50	7°♄10'07	0.66469 AU
evening set	619 Oct 07 j 07:48	27°♄54'43		inferior conj	620 Sep 25 j 20:43	5°♄22'11	-1°32'35
min. Earth dist.	619 Oct 11 j 19:55	22°♄50'34	0.67215 AU	minimum elong	620 Sep 25 j 23:06	5°♄14'48	1°31'36
inferior conj	619 Oct 12 j 19:23	21°♄33'39	-0°35'50	asc. node	620 Sep 30 j 09:59	0°♄26'47	
minimum elong	619 Oct 12 j 20:17	21°♄30'42	0°35'27		620 Oct 01 j 00:02	30°♄	
asc. node	619 Oct 14 j 12:56	19°♄20'36		morning rise	620 Oct 01 j 17:10	29°♄32'09	
morning rise	619 Oct 18 j 08:54	15°♄33'47		direct	620 Oct 04 j 19:33	28°♄37'17	
direct	619 Oct 21 j 21:18	14°♄22'25			620 Oct 08 j 18:45	0°♄	
morning max el	619 Oct 29 j 06:47	18°♄35'04	19°43'32	morning max el	620 Oct 11 j 15:32	2°♄25'33	18°50'46
	619 Nov 07 j 07:00	0°♄			620 Oct 30 j 19:10	0°♄	

morning set	620 Nov 02 j 04:39	3° \mathbb{M} 46'52		superior conj	621 Oct 28 j 15:36	8° \mathbb{M} 03'03	-0°14'06
desc. node	620 Nov 08 j 15:21	13° \mathbb{M} 56'18		minimum elong	621 Oct 28 j 13:47	7° \mathbb{M} 55'50	0°13'51
max. Earth dist.	620 Nov 17 j 13:44	27° \mathbb{M} 58'22	1.44981 AU	behind sun begin	621 Oct 28 j 07:57	7° \mathbb{M} 32'45	
				behind sun end	621 Oct 28 j 19:37	8° \mathbb{M} 18'54	
superior conj	620 Nov 18 j 13:28	29° \mathbb{M} 31'42	-1°02'28	max. Earth dist.	621 Oct 31 j 08:22	12° \mathbb{M} 18'37	1.44975 AU
minimum elong	620 Nov 18 j 05:56	29° \mathbb{M} 02'03	1°01'33		621 Nov 11 j 15:44	0° \mathbb{M}	
	620 Nov 18 j 20:39	0° \mathbb{M}		evening rise	621 Nov 14 j 02:03	3° \mathbb{M} 47'14	
evening rise	620 Dec 04 j 00:41	24° \mathbb{M} 09'32		greatest brilliancy	621 Nov 26 j 00:37	22° \mathbb{M} 15'52	-0.7m
	620 Dec 07 j 15:25	0° \mathbb{M}			621 Dec 01 j 06:17	0° \mathbb{M}	
evening max el	620 Dec 25 j 00:21	25° \mathbb{M} 28'09	18°46'18	evening max el	621 Dec 08 j 08:08	8° \mathbb{M} 56'00	19°31'37
asc. node	620 Dec 27 j 09:15	27° \mathbb{M} 34'11		asc. node	621 Dec 14 j 06:17	12° \mathbb{M} 58'08	
retrograde	620 Dec 31 j 17:52	29° \mathbb{M} 14'48		retrograde	621 Dec 15 j 14:30	13° \mathbb{M} 08'10	
evening set	621 Jan 03 j 21:56	28° \mathbb{M} 17'27		evening set	621 Dec 19 j 01:37	11° \mathbb{M} 57'59	
inferior conj	621 Jan 09 j 15:37	22° \mathbb{M} 36'40	3°29'24	inferior conj	621 Dec 24 j 14:23	6° \mathbb{M} 02'16	3°01'00
minimum elong	621 Jan 09 j 13:24	22° \mathbb{M} 43'27	3°29'03	minimum elong	621 Dec 24 j 11:40	6° \mathbb{M} 11'07	3°00'20
min. Earth dist.	621 Jan 11 j 10:16	20° \mathbb{M} 26'30	0.65196 AU	min. Earth dist.	621 Dec 25 j 18:35	4° \mathbb{M} 30'20	0.66386 AU
morning rise	621 Jan 15 j 04:29	16° \mathbb{M} 27'37		morning rise	621 Dec 29 j 21:28	29° \mathbb{M} 50'08	
direct	621 Jan 21 j 20:42	13° \mathbb{M} 35'26			621 Dec 29 j 17:08	30° \mathbb{M}	
morning max el	621 Feb 04 j 01:35	21° \mathbb{M} 18'43	26°57'42	direct	622 Jan 05 j 02:01	27° \mathbb{M} 05'23	
desc. node	621 Feb 04 j 14:32	21° \mathbb{M} 51'34			622 Jan 12 j 09:23	0° \mathbb{M}	
	621 Feb 11 j 15:26	0° \mathbb{M}		morning max el	622 Jan 17 j 10:47	4° \mathbb{M} 25'41	25°51'04
	621 Mar 03 j 12:14	0° \mathbb{M}		desc. node	622 Jan 22 j 11:33	9° \mathbb{M} 59'52	
morning set	621 Mar 11 j 19:24	15° \mathbb{M} 09'04			622 Feb 06 j 01:27	0° \mathbb{M}	
max. Earth dist.	621 Mar 16 j 06:39	23° \mathbb{M} 57'43	1.34206 AU	morning set	622 Feb 22 j 16:52	27° \mathbb{M} 55'11	
	621 Mar 19 j 05:24	0° \mathbb{M}			622 Feb 23 j 19:49	0° \mathbb{M}	
				max. Earth dist.	622 Feb 26 j 13:18	5° \mathbb{M} 09'35	1.35731 AU
superior conj	621 Mar 20 j 04:41	2° \mathbb{M} 01'07	-0°52'04				
minimum elong	621 Mar 20 j 07:13	2° \mathbb{M} 14'22	0°51'35	superior conj	622 Mar 03 j 23:14	15° \mathbb{M} 49'26	-1°18'02
asc. node	621 Mar 25 j 08:34	12° \mathbb{M} 53'54		minimum elong	622 Mar 04 j 02:52	16° \mathbb{M} 07'41	1°17'28
evening rise	621 Mar 27 j 15:12	17° \mathbb{M} 40'36			622 Mar 10 j 21:25	0° \mathbb{M}	
	621 Apr 02 j 19:36	0° \mathbb{M}		evening rise	622 Mar 11 j 21:41	2° \mathbb{M} 04'06	
evening max el	621 Apr 16 j 15:43	20° \mathbb{M} 01'13	21°29'10	asc. node	622 Mar 12 j 05:36	2° \mathbb{M} 44'28	
retrograde	621 Apr 28 j 20:08	25° \mathbb{M} 57'43			622 Mar 28 j 16:22	0° \mathbb{M}	
evening set	621 May 01 j 05:53	25° \mathbb{M} 44'33		evening max el	622 Mar 29 j 22:33	1° \mathbb{M} 16'56	20°10'36
desc. node	621 May 03 j 13:47	25° \mathbb{M} 08'28		retrograde	622 Apr 09 j 10:16	6° \mathbb{M} 19'42	
inferior conj	621 May 10 j 15:36	21° \mathbb{M} 43'41	-2°00'19	evening set	622 Apr 11 j 12:12	6° \mathbb{M} 08'39	
minimum elong	621 May 10 j 10:05	21° \mathbb{M} 51'25	1°58'28	desc. node	622 Apr 20 j 10:46	2° \mathbb{M} 12'02	
min. Earth dist.	621 May 10 j 17:30	21° \mathbb{M} 41'00	0.54968 AU	inferior conj	622 Apr 20 j 12:05	2° \mathbb{M} 10'04	-0°00'57
morning rise	621 May 19 j 14:54	17° \mathbb{M} 45'12		minimum elong	622 Apr 20 j 12:03	2° \mathbb{M} 10'08	0°00'56
direct	621 May 22 j 17:47	17° \mathbb{M} 23'56		transit middle	622 Apr 20 j 12:03	2° \mathbb{M} 10'08	0°00'56
morning max el	621 Jun 04 j 05:21	23° \mathbb{M} 18'25	22°05'43	transit begin	622 Apr 20 j 08:02	2° \mathbb{M} 16'06	
	621 Jun 10 j 03:19	0° \mathbb{M}		transit end	622 Apr 20 j 16:03	2° \mathbb{M} 04'10	
asc. node	621 Jun 21 j 07:50	18° \mathbb{M} 34'22		min. Earth dist.	622 Apr 22 j 07:10	1° \mathbb{M} 06'05	0.55323 AU
morning set	621 Jun 25 j 12:26	27° \mathbb{M} 03'35			622 Apr 24 j 05:45	30° \mathbb{M}	
	621 Jun 26 j 22:05	0° \mathbb{M}		morning rise	622 Apr 29 j 10:05	27° \mathbb{M} 48'17	
				direct	622 May 03 j 07:03	27° \mathbb{M} 15'29	
superior conj	621 Jul 02 j 18:10	12° \mathbb{M} 21'47	1°35'30		622 May 11 j 21:33	0° \mathbb{M}	
minimum elong	621 Jul 02 j 16:04	12° \mathbb{M} 10'44	1°35'17	morning max el	622 May 16 j 22:31	3° \mathbb{M} 58'31	23°46'09
max. Earth dist.	621 Jul 06 j 03:24	19° \mathbb{M} 23'43	1.34553 AU		622 Jun 04 j 00:35	0° \mathbb{M}	
evening rise	621 Jul 10 j 19:00	28° \mathbb{M} 40'06		asc. node	622 Jun 08 j 04:53	8° \mathbb{M} 15'52	
	621 Jul 11 j 11:34	0° \mathbb{M}		morning set	622 Jun 10 j 00:00	12° \mathbb{M} 00'07	
	621 Jul 29 j 03:53	0° \mathbb{M}					
desc. node	621 Jul 30 j 13:08	2° \mathbb{M} 01'25		superior conj	622 Jun 17 j 01:12	27° \mathbb{M} 08'57	1°21'23
evening max el	621 Aug 14 j 17:56	20° \mathbb{M} 38'43	27°00'49	minimum elong	622 Jun 16 j 22:45	26° \mathbb{M} 55'42	1°21'02
retrograde	621 Aug 27 j 23:21	27° \mathbb{M} 56'48			622 Jun 18 j 09:04	0° \mathbb{M}	
evening set	621 Sep 03 j 19:38	25° \mathbb{M} 11'50		max. Earth dist.	622 Jun 19 j 04:12	1° \mathbb{M} 42'00	1.33428 AU
min. Earth dist.	621 Sep 07 j 17:03	21° \mathbb{M} 20'47	0.65363 AU	evening rise	622 Jun 24 j 12:27	12° \mathbb{M} 46'25	
inferior conj	621 Sep 09 j 16:14	19° \mathbb{M} 05'35	-2°28'59		622 Jul 03 j 16:31	0° \mathbb{M}	
minimum elong	621 Sep 09 j 20:03	18° \mathbb{M} 54'41	2°27'35	desc. node	622 Jul 17 j 10:09	21° \mathbb{M} 18'17	
morning rise	621 Sep 15 j 21:09	13° \mathbb{M} 28'20			622 Jul 24 j 11:02	0° \mathbb{M}	
asc. node	621 Sep 17 j 07:02	12° \mathbb{M} 56'28		evening max el	622 Jul 28 j 05:13	3° \mathbb{M} 53'09	27°24'26
direct	621 Sep 18 j 15:57	12° \mathbb{M} 46'10		retrograde	622 Aug 10 j 19:38	11° \mathbb{M} 12'01	
morning max el	621 Sep 25 j 05:08	16° \mathbb{M} 19'17	18°14'25	evening set	622 Aug 17 j 23:27	8° \mathbb{M} 30'59	
	621 Oct 05 j 03:48	0° \mathbb{M}		min. Earth dist.	622 Aug 21 j 15:21	5° \mathbb{M} 14'17	0.63900 AU
morning set	621 Oct 13 j 22:32	14° \mathbb{M} 19'01		inferior conj	622 Aug 24 j 03:29	2° \mathbb{M} 38'10	-3°22'21
	621 Oct 23 j 14:17	0° \mathbb{M}		minimum elong	622 Aug 24 j 08:17	2° \mathbb{M} 25'41	3°20'56
desc. node	621 Oct 26 j 12:24	4° \mathbb{M} 39'55			622 Aug 26 j 19:22	30° \mathbb{M}	

morning rise	622 Aug 30 j 18:07	27°♎17'03		asc. node	623 Aug 22 j 01:09	12°♎34'38	
direct	622 Sep 02 j 07:55	26°♎44'01		morning max el	623 Aug 23 j 12:02	13°♎52'01	17°54'32
asc. node	622 Sep 04 j 04:04	27°♎01'08			623 Sep 03 j 12:24	0°♎	
	622 Sep 08 j 16:49	0°♎		morning set	623 Sep 08 j 12:56	8°♎59'33	
morning max el	622 Sep 08 j 20:54	0°♎10'05	17°55'23				
morning set	622 Sep 25 j 19:18	26°♎09'16		superior conj	623 Sep 19 j 09:37	28°♎13'43	1°08'46
	622 Sep 28 j 01:02	0°♎		minimum elong	623 Sep 19 j 14:28	28°♎34'32	1°08'12
					623 Sep 20 j 10:28	0°♎	
superior conj	622 Oct 08 j 11:05	17°♎28'07	0°32'33	max. Earth dist.	623 Sep 26 j 16:09	10°♎24'32	1.42896 AU
minimum elong	622 Oct 08 j 14:31	17°♎42'08	0°32'05	desc. node	623 Sep 30 j 06:30	16°♎13'31	
desc. node	622 Oct 13 j 09:27	25°♎26'39		evening rise	623 Oct 03 j 21:27	21°♎57'32	
max. Earth dist.	622 Oct 14 j 02:05	26°♎33'04	1.44250 AU		623 Oct 09 j 02:21	0°♎	
	622 Oct 16 j 06:12	0°♎			623 Oct 30 j 04:18	0°♎	
evening rise	622 Oct 24 j 11:38	12°♎49'41		evening max el	623 Nov 04 j 07:55	5°♎54'43	21°43'03
	622 Nov 04 j 19:20	0°♎		retrograde	623 Nov 13 j 09:01	11°♎17'33	
evening max el	622 Nov 21 j 10:53	22°♎24'58	20°31'34	evening set	623 Nov 17 j 16:00	9°♎36'14	
retrograde	622 Nov 29 j 12:10	27°♎09'59		asc. node	623 Nov 18 j 00:21	9°♎18'56	
asc. node	622 Dec 01 j 03:19	26°♎54'55		inferior conj	623 Nov 23 j 00:27	3°♎19'39	1°39'22
evening set	622 Dec 03 j 08:15	25°♎45'04		minimum elong	623 Nov 22 j 22:23	3°♎26'49	1°38'34
inferior conj	622 Dec 08 j 18:02	19°♎37'17	2°23'38	min. Earth dist.	623 Nov 23 j 04:10	3°♎06'47	0.67625 AU
minimum elong	622 Dec 08 j 15:24	19°♎46'13	2°22'47		623 Nov 25 j 12:05	30°♎	
min. Earth dist.	622 Dec 09 j 09:18	18°♎45'26	0.67189 AU	morning rise	623 Nov 28 j 04:37	27°♎07'09	
morning rise	622 Dec 13 j 22:22	13°♎24'04		direct	623 Dec 03 j 03:30	25°♎00'44	
direct	622 Dec 19 j 12:31	10°♎56'01			623 Dec 12 j 04:46	0°♎	
morning max el	622 Dec 30 j 19:04	17°♎39'17	24°28'39	morning max el	623 Dec 13 j 04:38	0°♎58'32	23°00'36
desc. node	623 Jan 09 j 08:37	28°♎58'28		desc. node	623 Dec 27 j 05:42	18°♎33'15	
	623 Jan 10 j 03:11	0°♎			624 Jan 04 j 01:57	0°♎	
	623 Jan 30 j 02:41	0°♎		morning set	624 Jan 16 j 18:04	20°♎02'58	
morning set	623 Feb 04 j 18:28	9°♎38'11		max. Earth dist.	624 Jan 21 j 06:12	27°♎40'25	1.39782 AU
max. Earth dist.	623 Feb 08 j 10:42	16°♎11'25	1.37654 AU		624 Jan 22 j 14:25	0°♎	
superior conj	623 Feb 15 j 06:50	29°♎00'36	-1°40'41	superior conj	624 Jan 28 j 23:15	11°♎24'06	-1°56'59
minimum elong	623 Feb 15 j 10:50	29°♎19'52	1°40'14	minimum elong	624 Jan 29 j 02:12	11°♎37'35	1°56'49
	623 Feb 15 j 19:07	0°♎		evening rise	624 Feb 07 j 13:53	29°♎32'54	
evening rise	623 Feb 23 j 22:10	16°♎03'46			624 Feb 07 j 19:33	0°♎	
asc. node	623 Feb 27 j 02:38	22°♎18'32		asc. node	624 Feb 13 j 23:41	11°♎30'27	
	623 Mar 03 j 06:19	0°♎		evening max el	624 Feb 23 j 19:38	25°♎38'36	18°30'19
evening max el	623 Mar 12 j 16:33	13°♎10'42	19°10'28	retrograde	624 Mar 02 j 09:47	29°♎22'10	
retrograde	623 Mar 21 j 12:35	17°♎26'24		evening set	624 Mar 04 j 19:42	29°♎00'46	
evening set	623 Mar 23 j 17:14	17°♎11'46		inferior conj	624 Mar 12 j 06:28	24°♎30'12	2°57'12
inferior conj	623 Mar 31 j 22:53	13°♎00'35	1°44'32	minimum elong	624 Mar 12 j 10:26	24°♎22'18	2°56'20
minimum elong	623 Apr 01 j 02:38	12°♎54'12	1°43'22	min. Earth dist.	624 Mar 15 j 16:40	21°♎48'11	0.58397 AU
min. Earth dist.	623 Apr 03 j 22:14	11°♎00'13	0.56554 AU	morning rise	624 Mar 19 j 22:26	19°♎05'03	
desc. node	623 Apr 07 j 07:47	9°♎00'24		desc. node	624 Mar 24 j 04:50	17°♎40'53	
morning rise	623 Apr 09 j 09:08	8°♎05'50		direct	624 Mar 25 j 21:56	17°♎33'19	
direct	623 Apr 14 j 07:41	7°♎09'10		morning max el	624 Apr 09 j 06:41	25°♎11'53	26°44'56
morning max el	623 Apr 28 j 12:59	14°♎26'45	25°24'28		624 Apr 13 j 17:22	0°♎	
	623 May 10 j 20:46	0°♎			624 May 03 j 00:38	0°♎	
morning set	623 May 25 j 11:51	26°♎57'47		morning set	624 May 08 j 22:16	11°♎50'08	
asc. node	623 May 26 j 01:57	28°♎12'16		asc. node	624 May 11 j 22:59	18°♎17'41	
	623 May 26 j 22:09	0°♎					
				superior conj	624 May 15 j 23:13	27°♎03'45	0°41'19
superior conj	623 Jun 01 j 11:31	12°♎05'18	1°03'02	minimum elong	624 May 15 j 21:30	26°♎54'22	0°40'58
minimum elong	623 Jun 01 j 09:13	11°♎52'43	1°02'39	max. Earth dist.	624 May 16 j 00:38	27°♎11'34	1.32320 AU
max. Earth dist.	623 Jun 02 j 12:29	14°♎21'33	1.32687 AU		624 May 17 j 07:18	0°♎	
evening rise	623 Jun 08 j 14:12	27°♎17'18		evening rise	624 May 22 j 21:25	12°♎02'56	
	623 Jun 09 j 22:03	0°♎			624 Jun 01 j 02:12	0°♎	
	623 Jun 27 j 00:48	0°♎		desc. node	624 Jun 20 j 04:10	27°♎10'39	
desc. node	623 Jul 04 j 07:08	9°♎48'09		evening max el	624 Jun 21 j 15:42	28°♎38'31	26°36'53
evening max el	623 Jul 10 j 13:25	16°♎37'21	27°17'12		624 Jun 23 j 03:24	0°♎	
retrograde	623 Jul 24 j 09:14	23°♎53'52		retrograde	624 Jul 05 j 15:13	5°♎52'49	
evening set	623 Jul 31 j 13:11	21°♎29'20		evening set	624 Jul 12 j 08:13	3°♎58'04	
min. Earth dist.	623 Aug 04 j 03:20	18°♎39'32	0.62111 AU	min. Earth dist.	624 Jul 16 j 05:04	1°♎20'56	0.60090 AU
inferior conj	623 Aug 07 j 03:29	15°♎53'08	-4°08'28		624 Jul 17 j 21:44	30°♎	
minimum elong	623 Aug 07 j 08:16	15°♎42'03	4°07'29	inferior conj	624 Jul 19 j 12:40	28°♎40'34	-4°40'38
morning rise	623 Aug 14 j 04:46	10°♎51'39		minimum elong	624 Jul 19 j 15:40	28°♎34'31	4°40'21
direct	623 Aug 16 j 16:08	10°♎24'54		morning rise	624 Jul 27 j 01:05	24°♎01'26	

direct	624 Jul 29 j 12:18	23°☿38'52		direct	625 Jul 11 j 15:57	6°☿14'25	
morning max el	624 Aug 05 j 23:26	27°☿16'34	18°12'58	morning max el	625 Jul 20 j 03:59	10°☿14'33	18°51'53
asc. node	624 Aug 07 j 22:14	29°☿21'55		asc. node	625 Jul 25 j 19:17	17°☿07'48	
	624 Aug 08 j 10:51	0°♌			625 Aug 02 j 06:44	0°♌	
morning set	624 Aug 21 j 21:39	22°♌33'02		morning set	625 Aug 05 j 17:05	6°♌38'13	
	624 Aug 25 j 20:27	0°♍					
superior conj	624 Aug 31 j 09:39	10°♍14'42	1°32'16	superior conj	625 Aug 14 j 05:46	23°♌15'37	1°44'10
minimum elong	624 Aug 31 j 13:16	10°♍31'01	1°31'58	minimum elong	625 Aug 14 j 07:19	23°♌22'59	1°44'06
max. Earth dist.	624 Sep 08 j 00:19	23°♍35'25	1.41088 AU		625 Aug 17 j 20:03	0°♍	
	624 Sep 11 j 20:25	0°♎		max. Earth dist.	625 Aug 21 j 03:50	6°♍01'38	1.39071 AU
evening rise	624 Sep 12 j 23:43	1°♎51'39		evening rise	625 Aug 25 j 02:15	12°♍54'10	
desc. node	624 Sep 16 j 03:32	6°♎56'33		desc. node	625 Sep 03 j 00:32	27°♍32'02	
	624 Oct 01 j 12:24	0°♏			625 Sep 04 j 14:34	0°♎	
evening max el	624 Oct 16 j 23:43	19°♏25'30	23°01'42	evening max el	625 Sep 26 j 15:59	0°♏	
retrograde	624 Oct 27 j 03:30	25°♏27'10		retrograde	625 Sep 29 j 12:20	2°♏59'46	24°21'33
evening set	624 Oct 31 j 23:09	23°♏28'22		evening set	625 Oct 10 j 18:21	9°♏35'10	
asc. node	624 Nov 03 j 21:25	20°♏21'47		min. Earth dist.	625 Oct 16 j 04:01	7°♏19'05	
inferior conj	624 Nov 06 j 07:44	17°♏06'44	0°49'47	inferior conj	625 Oct 20 j 20:50	1°♏54'33	0.67489 AU
minimum elong	624 Nov 06 j 06:36	17°♏10'40	0°49'17	minimum elong	625 Oct 21 j 14:07	0°♏56'28	-0°03'47
min. Earth dist.	624 Nov 06 j 00:50	17°♏30'31	0.67716 AU	transit middle	625 Oct 21 j 14:12	0°♏56'10	0°03'44
morning rise	624 Nov 11 j 13:57	10°♏57'02		transit begin	625 Oct 21 j 14:12	0°♏56'10	0°03'44
direct	624 Nov 15 j 22:09	9°♏13'22		transit end	625 Oct 21 j 11:32	1°♏05'07	
morning max el	624 Nov 24 j 18:47	14°♏25'12	21°35'46	transit end	625 Oct 21 j 16:52	0°♏47'13	
	624 Dec 07 j 04:20	0°♐		asc. node	625 Oct 21 j 18:30	0°♏41'45	
desc. node	624 Dec 13 j 02:47	8°♐33'45			625 Oct 22 j 07:00	30°♐♎	
morning set	624 Dec 26 j 12:38	29°♐05'29		morning rise	625 Oct 27 j 00:25	24°♎52'02	
	624 Dec 27 j 02:21	0°♑		direct	625 Oct 30 j 19:27	23°♎29'39	
max. Earth dist.	625 Jan 02 j 06:16	9°♑59'54	1.41829 AU	morning max el	625 Nov 07 j 15:59	28°♎01'26	20°20'35
					625 Nov 09 j 12:06	0°♏	
superior conj	625 Jan 09 j 19:17	22°♑47'26	-2°02'55	desc. node	625 Nov 29 j 23:48	28°♏52'19	
minimum elong	625 Jan 09 j 19:00	22°♑46'12	2°02'56		625 Nov 30 j 17:34	0°♐	
	625 Jan 13 j 21:24	0°♒		morning set	625 Dec 05 j 10:45	7°♐15'03	
evening rise	625 Jan 20 j 17:17	12°♒23'25		max. Earth dist.	625 Dec 15 j 13:42	23°♐12'05	1.43526 AU
asc. node	625 Jan 30 j 20:43	0°♓			625 Dec 19 j 18:19	0°♑	
	625 Jan 30 j 17:24	0°♓					
evening max el	625 Feb 06 j 04:49	8°♓32'54	18°10'14	superior conj	625 Dec 21 j 13:50	2°♑58'56	-1°53'47
retrograde	625 Feb 13 j 00:38	12°♓00'15		minimum elong	625 Dec 21 j 08:32	2°♑37'03	1°53'30
evening set	625 Feb 15 j 15:36	11°♓30'11		evening rise	626 Jan 03 j 04:03	24°♑25'36	
inferior conj	625 Feb 22 j 10:28	6°♓38'46	3°36'08		626 Jan 06 j 08:44	0°♒	
minimum elong	625 Feb 22 j 12:35	6°♓33'51	3°35'54	asc. node	626 Jan 17 j 17:46	18°♒16'31	
min. Earth dist.	625 Feb 25 j 17:13	3°♓38'26	0.60503 AU	evening max el	626 Jan 20 j 16:59	21°♒44'10	18°09'39
morning rise	625 Mar 01 j 07:39	0°♓52'42		retrograde	626 Jan 27 j 04:54	25°♒09'26	
	625 Mar 02 j 20:56	30°♒♓		evening set	626 Jan 30 j 00:39	24°♒29'30	
direct	625 Mar 08 j 00:21	28°♒43'47		inferior conj	626 Feb 05 j 07:13	19°♒17'39	3°48'10
desc. node	625 Mar 11 j 01:54	29°♒09'13		minimum elong	626 Feb 05 j 07:12	19°♒17'41	3°48'10
	625 Mar 13 j 09:36	0°♓		min. Earth dist.	626 Feb 08 j 01:59	16°♒23'29	0.62559 AU
morning max el	625 Mar 22 j 06:29	6°♓33'45	27°34'39	morning rise	626 Feb 11 j 12:42	13°♒19'10	
	625 Apr 08 j 21:43	0°♔		direct	626 Feb 18 j 12:16	10°♒42'00	
morning set	625 Apr 23 j 05:29	26°♔31'08		desc. node	626 Feb 25 j 22:57	13°♒12'32	
	625 Apr 24 j 21:29	0°♕		morning max el	626 Mar 04 j 11:49	18°♒35'38	27°47'42
asc. node	625 Apr 28 j 20:02	8°♕27'48			626 Mar 14 j 03:05	0°♓	
max. Earth dist.	625 Apr 29 j 12:50	9°♕59'26	1.32328 AU		626 Apr 01 j 17:18	0°♔	
				morning set	626 Apr 07 j 07:19	10°♔52'39	
superior conj	625 Apr 30 j 10:37	11°♕58'42	0°16'57	max. Earth dist.	626 Apr 12 j 21:10	22°♔31'15	1.32726 AU
minimum elong	625 Apr 30 j 09:51	11°♕54'31	0°16'48				
evening rise	625 May 07 j 07:55	26°♕56'00		superior conj	626 Apr 14 j 19:58	26°♔43'26	-0°09'18
	625 May 08 j 19:02	0°♖		minimum elong	626 Apr 14 j 20:25	26°♔45'50	0°09'12
	625 May 26 j 00:15	0°☿		behind sun begin	626 Apr 14 j 16:09	26°♔22'47	
evening max el	625 Jun 03 j 11:00	9°☿53'52	25°26'35	behind sun end	626 Apr 15 j 00:40	27°♔08'54	
desc. node	625 Jun 07 j 01:09	12°☿58'03		asc. node	626 Apr 15 j 17:04	28°♔37'49	
retrograde	625 Jun 17 j 11:53	17°☿03'42			626 Apr 16 j 08:12	0°♕	
evening set	625 Jun 23 j 04:30	15°☿47'45		evening rise	626 Apr 21 j 19:42	11°♕49'03	
min. Earth dist.	625 Jun 27 j 23:01	13°☿04'49	0.58050 AU		626 May 01 j 02:38	0°♖	
inferior conj	625 Jul 01 j 03:32	10°☿51'03	-4°48'25	evening max el	626 May 16 j 01:39	20°♖35'04	23°56'23
minimum elong	625 Jul 01 j 02:29	10°☿52'55	4°48'22	desc. node	626 May 24 j 22:09	26°♖35'01	
morning rise	625 Jul 09 j 03:03	6°☿34'15		retrograde	626 May 29 j 20:31	27°♖30'18	
				evening set	626 Jun 03 j 02:49	26°♖50'08	

min. Earth dist.	626 Jun 09 j 12:38	23°II45'58	0.56308 AU	min. Earth dist.	627 May 22 j 00:48	3°II35'17	0.55210 AU
inferior conj	626 Jun 11 j 22:10	22°II17'42	-4°18'28	inferior conj	627 May 22 j 23:23	3°II03'24	-3°02'11
minimum elong	626 Jun 11 j 16:18	22°II26'46	4°17'29	minimum elong	627 May 22 j 16:05	3°II13'44	3°00'04
morning rise	626 Jun 20 j 08:32	18°II18'24			627 May 29 j 01:31	30°R8	
direct	626 Jun 23 j 00:32	18°II00'01		morning rise	627 May 31 j 19:19	29°810'06	
morning max el	626 Jul 02 j 22:49	22°II36'06	19°51'59	direct	627 Jun 03 j 16:48	28°851'05	
	626 Jul 09 j 02:52	0°☾			627 Jun 09 j 01:06	0°II	
asc. node	626 Jul 12 j 16:20	5°☾38'46		morning max el	627 Jun 15 j 06:23	4°II14'44	21°12'13
morning set	626 Jul 20 j 19:58	21°☾06'26		asc. node	627 Jun 29 j 13:21	24°II43'54	
	626 Jul 25 j 04:57	0°♌			627 Jul 02 j 06:42	0°☾	
				morning set	627 Jul 05 j 03:46	5°☾50'33	
superior conj	626 Jul 28 j 16:33	7°♌01'07	1°46'31	superior conj	627 Jul 12 j 13:40	21°☾18'17	1°41'18
minimum elong	626 Jul 28 j 16:14	6°♌59'30	1°46'31	minimum elong	627 Jul 12 j 12:02	21°☾09'51	1°41'12
max. Earth dist.	626 Aug 03 j 07:57	17°♌58'20	1.37098 AU		627 Jul 16 j 20:24	0°♌	
evening rise	626 Aug 07 j 04:12	25°♌03'53			627 Jul 16 j 18:20	29°☾49'44	1.35378 AU
	626 Aug 09 j 22:55	0°♍		max. Earth dist.	627 Jul 21 j 01:05	8°♌08'51	
desc. node	626 Aug 20 j 21:32	17°♍55'21		evening rise	627 Aug 02 j 13:55	0°♍	
	626 Aug 29 j 04:29	0°♎		desc. node	627 Aug 07 j 18:32	7°♍59'59	
evening max el	626 Sep 12 j 00:05	16°♎38'03	25°35'25		627 Aug 25 j 06:04	0°♎	
retrograde	626 Sep 24 j 04:38	23°♎37'38			627 Aug 25 j 12:04	0°♎14'34	26°35'31
evening set	626 Sep 30 j 04:51	21°♎06'11		evening max el	627 Sep 07 j 09:44	7°♎27'59	
min. Earth dist.	626 Oct 04 j 13:43	16°♎17'04	0.66937 AU	retrograde	627 Sep 13 j 23:36	4°♎45'47	
inferior conj	626 Oct 05 j 17:50	14°♎46'54	-0°59'48	evening set	627 Sep 18 j 01:01	0°♎33'42	0.66042 AU
minimum elong	626 Oct 05 j 19:22	14°♎42'01	0°59'09	min. Earth dist.	627 Sep 18 j 12:20	30°R♍	
asc. node	626 Oct 08 j 15:32	11°♎16'07			627 Sep 19 j 16:57	28°♍33'53	-1°56'40
morning rise	626 Oct 11 j 10:04	8°♎50'33		inferior conj	627 Sep 19 j 19:58	28°♍24'50	1°55'29
direct	626 Oct 14 j 17:58	7°♎46'32		minimum elong	627 Sep 25 j 16:48	22°♍48'51	
morning max el	626 Oct 21 j 20:49	11°♎47'43	19°19'07	morning rise	627 Sep 25 j 12:34	22°♍54'51	
	626 Nov 04 j 07:33	0°♏		asc. node	627 Sep 28 j 15:47	21°♍59'40	
morning set	626 Nov 14 j 12:06	15°♏43'16		direct	627 Oct 05 j 07:53	25°♍40'06	18°33'19
desc. node	626 Nov 16 j 20:50	19°♏24'03		morning max el	627 Oct 09 j 00:21	0°♎	
	626 Nov 23 j 15:39	0°♐			627 Oct 25 j 13:13	25°♎26'01	
max. Earth dist.	626 Nov 28 j 04:10	7°♐06'58	1.44655 AU	morning set	627 Oct 28 j 09:43	0°♏	
				desc. node	627 Nov 03 j 17:51	10°♏04'19	
superior conj	626 Dec 01 j 06:27	12°♐01'21	-1°26'10	superior conj	627 Nov 10 j 07:43	20°♏26'17	-0°42'32
minimum elong	626 Nov 30 j 21:58	11°♐27'36	1°25'19	minimum elong	627 Nov 10 j 02:13	20°♏04'39	0°41'49
	626 Dec 12 j 09:20	0°♑		max. Earth dist.	627 Nov 10 j 22:43	21°♏25'13	1.45076 AU
evening rise	626 Dec 15 j 17:59	5°♑32'52			627 Nov 16 j 09:45	0°♐	
	626 Dec 31 j 00:58	0°♒		evening rise	627 Nov 26 j 08:22	15°♐41'54	
evening max el	627 Jan 04 j 05:20	5°♒05'46	18°27'46		627 Dec 05 j 09:03	0°♑	
asc. node	627 Jan 04 j 14:48	5°♒29'19			627 Dec 05 j 06:57	29°♐51'45	-0.8m
retrograde	627 Jan 10 j 18:23	8°♒41'14		greatest brilliancy	627 Dec 18 j 15:21	18°♑32'09	19°03'34
evening set	627 Jan 13 j 19:13	7°♒50'27		evening max el	627 Dec 22 j 11:50	21°♑37'25	
inferior conj	627 Jan 19 j 16:48	2°♒19'32	3°40'31	asc. node	627 Dec 25 j 13:21	22°♑28'25	
minimum elong	627 Jan 19 j 15:11	2°♒24'15	3°40'21	retrograde	627 Dec 28 j 20:19	21°♑25'36	
	627 Jan 21 j 16:48	30°R♑		evening set	628 Jan 03 j 11:37	15°♑37'56	3°18'36
min. Earth dist.	627 Jan 21 j 20:15	29°♑50'13	0.64347 AU	inferior conj	628 Jan 03 j 09:07	15°♑45'50	3°18'06
morning rise	627 Jan 25 j 10:37	26°♑13'40		minimum elong	628 Jan 04 j 23:50	13°♑43'54	0.65757 AU
direct	627 Feb 01 j 07:38	23°♑22'52		min. Earth dist.	628 Jan 08 j 21:39	9°♑27'28	
desc. node	627 Feb 12 j 20:00	29°♑16'15		morning rise	628 Jan 15 j 09:20	6°♑37'24	
	627 Feb 13 j 14:57	0°♒		direct	628 Jan 28 j 06:22	14°♑11'51	26°31'56
morning max el	627 Feb 14 j 20:36	1°♒12'02	27°24'54	morning max el	628 Jan 30 j 17:02	16°♑46'45	
	627 Mar 08 j 05:35	0°♓		desc. node	628 Feb 10 j 03:53	0°♒	
morning set	627 Mar 22 j 01:07	24°♓46'16			628 Feb 28 j 22:46	0°♓	
	627 Mar 24 j 16:03	0°♑		morning set	628 Mar 04 j 07:22	8°♓01'16	
max. Earth dist.	627 Mar 26 j 21:52	4°♑35'34	1.33544 AU	max. Earth dist.	628 Mar 08 j 11:50	16°♓07'00	1.34806 AU
				superior conj	628 Mar 13 j 00:45	25°♓17'29	-1°03'21
superior conj	627 Mar 30 j 01:25	11°♑11'59	-0°36'27	minimum elong	628 Mar 13 j 03:48	25°♓33'11	1°02'48
minimum elong	627 Mar 30 j 03:12	11°♑21'26	0°36'06		628 Mar 15 j 07:15	0°♑	
asc. node	627 Apr 02 j 14:05	18°♑43'52			628 Mar 19 j 11:08	8°♑41'47	
evening rise	627 Apr 06 j 06:57	26°♑36'00		asc. node	628 Mar 20 j 15:48	11°♑10'31	
	627 Apr 07 j 22:10	0°♒		evening rise	628 Mar 30 j 14:09	0°♒	
	627 Apr 26 j 14:26	1°II08'44	22°20'52		628 Apr 08 j 18:03	12°♒03'57	20°53'37
evening max el	627 Apr 27 j 17:46	7°II31'33		evening max el	628 Apr 20 j 05:41	17°♒38'08	
retrograde	627 May 10 j 16:21	7°II28'44		retrograde			
desc. node	627 May 11 j 19:11	7°II12'37					

evening set	628 Apr 22 j 10:25	17°♄26'40		evening max el	629 Mar 22 j 05:43	23°♃35'58	19°42'35
desc. node	628 Apr 27 j 16:13	15°♄39'25		retrograde	629 Apr 01 j 00:07	28°♃17'45	
inferior conj	628 May 01 j 17:28	13°♄28'34	-1°09'59	evening set	629 Apr 03 j 02:13	28°♃05'50	
minimum elong	628 May 01 j 14:09	13°♄33'17	1°08'47	inferior conj	629 Apr 11 j 18:50	24°♃03'06	0°47'07
min. Earth dist.	628 May 02 j 13:33	13°♄00'01	0.55001 AU	minimum elong	629 Apr 11 j 20:50	23°♃59'57	0°46'25
morning rise	628 May 10 j 17:33	9°♄22'37		min. Earth dist.	629 Apr 14 j 03:53	22°♃34'00	0.55745 AU
direct	628 May 14 j 02:51	8°♄57'53		desc. node	629 Apr 14 j 13:15	22°♃19'46	
morning max el	628 May 27 j 03:55	15°♄13'33	22°47'55	morning rise	629 Apr 20 j 12:57	19°♃27'24	
	628 Jun 07 j 14:56	0°♄		direct	629 Apr 24 j 19:58	18°♃46'17	
asc. node	628 Jun 15 j 10:23	14°♄14'46		morning max el	629 May 08 j 19:25	25°♃46'25	24°29'12
morning set	628 Jun 18 j 14:31	20°♄44'57			629 May 12 j 18:58	0°♄	
	628 Jun 22 j 22:57	0°♄			629 May 31 j 08:05	0°♄	
				asc. node	629 Jun 02 j 07:27	4°♄03'30	
superior conj	628 Jun 25 j 17:54	5°♄57'44	1°30'04	morning set	629 Jun 03 j 02:25	5°♄42'59	
minimum elong	628 Jun 25 j 15:34	5°♄45'23	1°29'49				
max. Earth dist.	628 Jun 28 j 13:57	11°♄56'17	1.34023 AU	superior conj	629 Jun 10 j 02:36	20°♄50'05	1°14'04
evening rise	628 Jul 03 j 12:16	21°♄56'41		minimum elong	629 Jun 10 j 00:09	20°♄36'47	1°13'42
	628 Jul 07 j 17:15	0°♄		max. Earth dist.	629 Jun 11 j 18:08	24°♄23'46	1.33061 AU
desc. node	628 Jul 24 j 15:33	27°♄37'52			629 Jun 14 j 09:15	0°♄	
	628 Jul 26 j 08:37	0°♄		evening rise	629 Jun 17 j 09:38	6°♄14'44	
evening max el	628 Aug 06 j 23:54	13°♄40'11	27°14'16		629 Jun 30 j 06:50	0°♄	
retrograde	628 Aug 20 j 09:23	20°♄59'08		desc. node	629 Jul 11 j 12:35	16°♄36'58	
evening set	628 Aug 27 j 09:47	18°♄14'07		evening max el	629 Jul 20 j 09:56	26°♄42'29	27°25'17
min. Earth dist.	628 Aug 31 j 04:29	14°♄38'35	0.64788 AU		629 Jul 24 j 06:25	0°♄	
inferior conj	628 Sep 02 j 09:16	12°♄13'22	-2°52'11	retrograde	629 Aug 03 j 03:09	4°♄01'26	
minimum elong	628 Sep 02 j 13:35	12°♄01'31	2°50'44	evening set	629 Aug 10 j 08:08	1°♄25'25	
morning rise	628 Sep 08 j 18:12	6°♄42'50			629 Aug 12 j 03:23	30°♄	
direct	628 Sep 11 j 10:37	6°♄04'56		min. Earth dist.	629 Aug 13 j 22:28	28°♄21'37	0.63173 AU
asc. node	628 Sep 11 j 09:36	6°♄04'57		inferior conj	629 Aug 16 j 16:06	25°♄39'09	-3°43'09
morning max el	628 Sep 17 j 22:48	9°♄33'46	18°04'14	minimum elong	629 Aug 16 j 21:04	25°♄26'50	3°41'52
	628 Oct 01 j 21:10	0°♄		morning rise	629 Aug 23 j 11:13	20°♄26'18	
morning set	628 Oct 05 j 19:06	6°♄33'17		direct	629 Aug 25 j 23:35	19°♄56'24	
				asc. node	629 Aug 29 j 06:40	20°♄48'43	
superior conj	628 Oct 19 j 15:07	29°♄14'48	0°06'36	morning max el	629 Sep 01 j 14:43	23°♄21'59	17°52'46
minimum elong	628 Oct 19 j 15:55	29°♄17'59	0°06'29		629 Sep 06 j 20:43	0°♄	
behind sun begin	628 Oct 19 j 06:05	28°♄38'37		morning set	629 Sep 18 j 01:27	18°♄50'52	
behind sun end	628 Oct 20 j 01:45	29°♄57'18			629 Sep 24 j 11:03	0°♄	
	628 Oct 20 j 02:25	0°♄					
desc. node	628 Oct 20 j 14:53	0°♄49'43		superior conj	629 Sep 29 j 21:46	9°♄13'29	0°49'26
max. Earth dist.	628 Oct 23 j 17:34	5°♄46'10	1.44751 AU	minimum elong	629 Sep 30 j 02:15	9°♄32'11	0°48'51
evening rise	628 Nov 05 j 01:34	25°♄01'03		max. Earth dist.	629 Oct 06 j 09:28	19°♄50'54	1.43734 AU
	628 Nov 08 j 07:05	0°♄		desc. node	629 Oct 07 j 11:56	21°♄37'03	
greatest brilliancy	628 Nov 18 j 16:49	15°♄49'03	-0.7m		629 Oct 12 j 19:13	0°♄	
	628 Nov 29 j 01:20	0°♄		evening rise	629 Oct 15 j 08:54	3°♄59'40	
evening max el	628 Nov 30 j 21:04	2°♄00'24	19°55'25		629 Nov 01 j 18:38	0°♄	
retrograde	628 Dec 08 j 10:51	6°♄26'07		evening max el	629 Nov 13 j 21:19	15°♄29'42	21°00'50
asc. node	628 Dec 08 j 08:53	6°♄26'05		retrograde	629 Nov 22 j 08:30	20°♄31'00	
evening set	628 Dec 12 j 01:32	5°♄09'50		asc. node	629 Nov 25 j 05:55	19°♄43'53	
	628 Dec 16 j 21:11	30°♄		evening set	629 Nov 26 j 08:52	18°♄59'29	
inferior conj	628 Dec 17 j 12:46	29°♄08'19	2°46'08	inferior conj	629 Dec 01 j 17:53	12°♄47'27	2°05'39
minimum elong	628 Dec 17 j 10:02	29°♄17'27	2°45'21	minimum elong	629 Dec 01 j 15:26	12°♄55'52	2°04'47
min. Earth dist.	628 Dec 18 j 11:13	27°♄53'36	0.66771 AU	min. Earth dist.	629 Dec 02 j 04:08	12°♄12'13	0.67409 AU
morning rise	628 Dec 22 j 18:20	22°♄55'20		morning rise	629 Dec 06 j 21:49	6°♄34'02	
direct	628 Dec 28 j 16:49	20°♄17'05		direct	629 Dec 12 j 05:26	4°♄14'42	
morning max el	629 Jan 09 j 15:21	27°♄23'32	25°17'22	morning max el	629 Dec 22 j 23:52	10°♄40'06	23°51'21
	629 Jan 12 j 02:22	0°♄		desc. node	630 Jan 03 j 11:09	24°♄34'50	
desc. node	629 Jan 16 j 14:05	5°♄18'50			630 Jan 07 j 08:35	0°♄	
	629 Feb 02 j 20:01	0°♄			630 Jan 26 j 14:07	0°♄	
morning set	629 Feb 14 j 21:13	20°♄23'11		morning set	630 Jan 27 j 12:37	1°♄35'52	
max. Earth dist.	629 Feb 18 j 14:13	27°♄12'10	1.36508 AU	max. Earth dist.	630 Jan 31 j 09:26	8°♄20'11	1.38543 AU
	629 Feb 20 j 01:46	0°♄					
				superior conj	630 Feb 07 j 16:55	21°♄44'27	-1°48'35
superior conj	629 Feb 24 j 15:07	8°♄51'20	-1°28'12	minimum elong	630 Feb 07 j 20:41	22°♄02'16	1°48'15
minimum elong	629 Feb 24 j 19:01	9°♄10'40	1°27'40		630 Feb 12 j 00:08	0°♄	
evening rise	629 Mar 04 j 20:06	25°♄25'13		evening rise	630 Feb 16 j 17:18	9°♄13'29	
asc. node	629 Mar 06 j 08:11	28°♄26'21		asc. node	630 Feb 21 j 05:15	17°♄52'24	
	629 Mar 07 j 03:03	0°♄			630 Feb 28 j 09:46	0°♄	

evening max el	630 Mar 05 j 04:02	5° Υ 46'10	18°50'57	asc. node	631 Feb 08 j 02:18	6° X 52'51	
retrograde	630 Mar 13 j 10:01	9° Υ 45'58		evening max el	631 Feb 16 j 10:09	18° X 26'41	18°19'22
evening set	630 Mar 15 j 16:45	9° Υ 28'51		retrograde	631 Feb 23 j 14:51	22° X 01'02	
inferior conj	630 Mar 23 j 14:14	5° Υ 10'15	2°19'40	evening set	631 Feb 26 j 03:11	21° X 35'58	
minimum elong	630 Mar 23 j 18:28	5° Υ 02'34	2°18'29	inferior conj	631 Mar 05 j 06:45	16° X 56'39	3°17'26
min. Earth dist.	630 Mar 26 j 20:29	2° Υ 49'26	0.57285 AU	minimum elong	631 Mar 05 j 10:04	16° X 49'37	3°16'51
morning rise	630 Mar 31 j 17:06	0° Υ 01'26		min. Earth dist.	631 Mar 08 j 16:59	14° X 03'50	0.59289 AU
	630 Mar 31 j 18:26	30° X		morning rise	631 Mar 12 j 14:34	11° X 21'45	
desc. node	630 Apr 01 j 10:18	29° X 44'08		direct	631 Mar 18 j 22:51	9° X 33'39	
direct	630 Apr 06 j 02:57	28° X 50'29		desc. node	631 Mar 19 j 07:21	9° X 33'59	
	630 Apr 11 j 12:43	0° Υ		morning max el	631 Apr 02 j 06:35	17° X 17'25	27°10'15
morning max el	630 Apr 20 j 10:42	6° Υ 19'08	26°01'34		631 Apr 12 j 19:11	0° Υ	
	630 May 07 j 20:18	0° X			631 Apr 30 j 07:13	0° X	
morning set	630 May 18 j 13:52	20° X 39'04		morning set	631 May 02 j 23:09	5° X 27'22	
asc. node	630 May 20 j 04:31	24° X 04'24		asc. node	631 May 07 j 01:35	14° X 12'29	
	630 May 22 j 22:10	0° Π		max. Earth dist.	631 May 09 j 17:00	19° X 59'21	1.32282 AU
superior conj	630 May 25 j 13:45	5° Π 48'24	0°54'12	superior conj	631 May 10 j 01:32	20° X 46'15	0°31'17
minimum elong	630 May 25 j 11:39	5° Π 36'53	0°53'49	minimum elong	631 May 10 j 00:11	20° X 38'51	0°30'59
max. Earth dist.	630 May 26 j 04:19	7° Π 08'15	1.32487 AU		631 May 14 j 06:44	0° Π	
evening rise	630 Jun 01 j 14:02	20° Π 53'07		evening rise	631 May 16 j 22:55	5° Π 43'16	
	630 Jun 06 j 02:44	0° X			631 May 29 j 19:11	0° X	
	630 Jun 24 j 13:37	0° Ω		evening max el	631 Jun 14 j 15:33	20° X 52'25	26°10'16
desc. node	630 Jun 28 j 09:36	4° Ω 41'08		desc. node	631 Jun 15 j 06:36	21° X 27'39	
evening max el	630 Jul 02 j 15:56	9° Ω 09'37	27°04'04	retrograde	631 Jun 28 j 16:00	28° X 04'30	
retrograde	630 Jul 16 j 13:56	16° Ω 25'30		evening set	631 Jul 05 j 00:13	26° X 26'03	
evening set	630 Jul 23 j 14:29	14° Ω 12'21		min. Earth dist.	631 Jul 09 j 04:21	23° X 48'33	0.59210 AU
min. Earth dist.	630 Jul 27 j 06:10	11° Ω 29'42	0.61265 AU	inferior conj	631 Jul 12 j 12:06	21° X 17'18	-4°47'44
inferior conj	630 Jul 30 j 10:14	8° Ω 43'34	-4°24'26	minimum elong	631 Jul 12 j 13:37	21° X 14'23	4°47'39
minimum elong	630 Jul 30 j 14:32	8° Ω 34'09	4°23'43	morning rise	631 Jul 20 j 05:12	16° X 47'29	
morning rise	630 Aug 06 j 16:14	3° Ω 51'11		direct	631 Jul 22 j 17:02	16° X 26'08	
direct	630 Aug 09 j 03:07	3° Ω 26'32		morning max el	631 Jul 30 j 13:26	20° X 11'54	18°26'54
morning max el	630 Aug 16 j 04:37	6° Ω 57'21	17°59'53	asc. node	631 Aug 03 j 00:48	24° X 09'31	
asc. node	630 Aug 16 j 03:44	6° Ω 55'14			631 Aug 06 j 23:12	0° Ω	
	630 Aug 30 j 23:48	0° X		morning set	631 Aug 15 j 15:54	15° Ω 50'03	
morning set	630 Sep 01 j 02:06	2° X 00'59			631 Aug 23 j 02:04	0° X	
superior conj	630 Sep 11 j 07:36	20° X 32'06	1°20'17	superior conj	631 Aug 24 j 16:55	3° X 00'55	1°38'37
minimum elong	630 Sep 11 j 12:08	20° X 51'58	1°19'49	minimum elong	631 Aug 24 j 19:41	3° X 13'40	1°38'26
	630 Sep 16 j 19:41	0° X		max. Earth dist.	631 Sep 01 j 03:02	16° X 18'41	1.40244 AU
max. Earth dist.	630 Sep 18 j 20:40	3° X 24'45	1.42166 AU	evening rise	631 Sep 05 j 12:25	23° X 45'45	
desc. node	630 Sep 24 j 08:57	12° X 22'38			631 Sep 09 j 07:58	0° X	
evening rise	630 Sep 25 j 00:03	13° X 22'45		desc. node	631 Sep 11 j 05:57	3° X 03'20	
	630 Oct 05 j 19:39	0° X			631 Sep 29 j 17:01	0° X	
evening max el	630 Oct 27 j 16:01	28° X 59'50	22°16'06	evening max el	631 Oct 10 j 06:21	12° X 32'42	23°35'58
	630 Oct 28 j 16:31	0° X		retrograde	631 Oct 20 j 21:17	18° X 48'52	
retrograde	630 Nov 06 j 04:24	4° X 39'20		evening set	631 Oct 25 j 22:52	16° X 42'36	
evening set	630 Nov 10 j 16:31	2° X 50'54		asc. node	631 Oct 30 j 00:01	12° X 08'37	
asc. node	630 Nov 12 j 02:59	1° X 30'06		inferior conj	631 Oct 31 j 07:57	10° X 20'19	0°27'27
	630 Nov 13 j 10:24	30° X		minimum elong	631 Oct 31 j 07:18	10° X 22'33	0°27'10
inferior conj	630 Nov 16 j 00:51	26° X 31'55	1°18'54	min. Earth dist.	631 Oct 30 j 20:39	10° X 58'53	0.67664 AU
minimum elong	630 Nov 15 j 23:08	26° X 37'52	1°18'13	morning rise	631 Nov 05 j 15:40	4° X 12'43	
min. Earth dist.	630 Nov 16 j 00:05	26° X 34'38	0.67700 AU	direct	631 Nov 09 j 18:10	2° X 38'14	
morning rise	630 Nov 21 j 05:37	20° X 20'13		morning max el	631 Nov 18 j 03:36	7° X 31'26	21°02'20
direct	630 Nov 25 j 22:12	18° X 23'14			631 Dec 05 j 04:23	0° X	
morning max el	630 Dec 05 j 10:43	24° X 01'05	22°23'40	desc. node	631 Dec 08 j 05:14	4° X 30'23	
	630 Dec 10 j 17:20	0° X		morning set	631 Dec 18 j 07:23	19° X 57'05	
desc. node	630 Dec 21 j 08:12	14° X 21'28			631 Dec 24 j 15:05	0° X	
	630 Dec 31 j 19:17	0° X		max. Earth dist.	631 Dec 26 j 09:28	2° X 52'03	1.42614 AU
morning set	631 Jan 07 j 23:42	11° X 24'17		superior conj	632 Jan 02 j 10:57	14° X 37'39	-2°01'10
max. Earth dist.	631 Jan 13 j 05:55	20° X 07'39	1.40679 AU	minimum elong	632 Jan 02 j 08:38	14° X 27'48	2°01'07
	631 Jan 18 j 22:59	0° X			632 Jan 11 j 06:28	0° X	
superior conj	631 Jan 21 j 01:19	3° X 44'06	-2°01'03	evening rise	632 Jan 14 j 00:59	4° X 57'32	
minimum elong	631 Jan 21 j 03:11	3° X 52'28	2°01'00	asc. node	632 Jan 25 j 23:19	25° X 19'52	
evening rise	631 Jan 31 j 04:11	22° X 26'48			632 Jan 29 j 11:49	0° X	
	631 Feb 04 j 05:25	0° X		evening max el	632 Jan 30 j 20:56	1° X 28'52	18°07'37

retrograde	632 Feb 06 j 12:05	4°♄53'42			632 Dec 16 j 05:47	0°♄	
evening set	632 Feb 09 j 05:10	4°♄19'25		evening rise	632 Dec 26 j 03:23	16°♄37'21	
	632 Feb 15 j 01:21	30°♄			633 Jan 03 j 00:33	0°♄	
inferior conj	632 Feb 15 j 18:19	29°♄18'50	3°44'03	asc. node	633 Jan 11 j 20:21	13°♄03'17	
minimum elong	632 Feb 15 j 19:31	29°♄15'56	3°43'59	evening max el	633 Jan 13 j 09:25	14°♄44'56	18°15'07
min. Earth dist.	632 Feb 18 j 20:30	26°♄18'45	0.61401 AU	retrograde	633 Jan 19 j 20:56	18°♄13'35	
morning rise	632 Feb 22 j 08:22	23°♄26'48		evening set	633 Jan 22 j 18:41	17°♄29'13	
direct	632 Feb 29 j 05:13	21°♄04'41		inferior conj	633 Jan 28 j 21:02	12°♄08'50	3°47'00
desc. node	632 Mar 05 j 04:24	22°♄11'41		minimum elong	633 Jan 28 j 20:15	12°♄10'59	3°46'58
morning max el	632 Mar 14 j 08:53	28°♄56'14	27°44'53	min. Earth dist.	633 Jan 31 j 09:22	9°♄23'27	0.63350 AU
	632 Mar 15 j 10:04	0°♄		morning rise	633 Feb 03 j 21:01	6°♄06'29	
	632 Apr 05 j 15:19	0°♄		direct	633 Feb 10 j 20:16	3°♄21'50	
morning set	632 Apr 16 j 04:21	20°♄01'04		desc. node	633 Feb 20 j 01:26	7°♄10'48	
	632 Apr 20 j 22:05	0°♄		morning max el	633 Feb 24 j 16:17	11°♄15'11	27°42'19
max. Earth dist.	632 Apr 22 j 04:14	2°♄43'07	1.32453 AU		633 Mar 11 j 12:08	0°♄	
asc. node	632 Apr 22 j 22:36	4°♄23'03			633 Mar 28 j 23:57	0°♄	
				morning set	633 Mar 31 j 03:12	4°♄12'36	
superior conj	632 Apr 23 j 12:15	5°♄37'30	0°06'02	max. Earth dist.	633 Apr 05 j 10:00	15°♄05'54	1.33018 AU
minimum elong	632 Apr 23 j 11:59	5°♄35'59	0°05'58				
behind sun begin	632 Apr 23 j 07:14	5°♄10'05		superior conj	633 Apr 07 j 20:12	20°♄16'27	-0°20'45
behind sun end	632 Apr 23 j 16:43	6°♄01'54		minimum elong	633 Apr 07 j 21:12	20°♄21'50	0°20'32
evening rise	632 Apr 30 j 10:12	20°♄37'23		asc. node	633 Apr 09 j 19:38	24°♄32'14	
	632 May 04 j 23:58	0°♄			633 Apr 12 j 08:21	0°♄	
	632 May 24 j 12:28	0°♄		evening rise	633 Apr 14 j 22:00	5°♄28'59	
evening max el	632 May 26 j 08:20	1°♄50'52	24°49'49		633 Apr 28 j 02:08	0°♄	
desc. node	632 Jun 01 j 03:38	6°♄24'43		evening max el	633 May 07 j 22:31	12°♄24'43	23°15'29
retrograde	632 Jun 09 j 07:30	8°♄55'57		desc. node	633 May 19 j 00:38	18°♄56'01	
evening set	632 Jun 14 j 10:33	7°♄56'11		retrograde	633 May 21 j 10:55	19°♄09'26	
min. Earth dist.	632 Jun 19 j 19:42	5°♄06'06	0.57256 AU	evening set	633 May 25 j 02:30	18°♄40'11	
inferior conj	632 Jun 22 j 18:25	3°♄09'46	-4°41'04	min. Earth dist.	633 Jun 01 j 08:19	15°♄23'22	0.55745 AU
minimum elong	632 Jun 22 j 15:13	3°♄15'05	4°40'47	inferior conj	633 Jun 03 j 04:55	14°♄17'50	-3°51'47
	632 Jun 28 j 04:16	30°♄		minimum elong	633 Jun 02 j 21:46	14°♄28'22	3°50'11
morning rise	632 Jun 30 j 22:38	29°♄01'34		morning rise	633 Jun 11 j 19:44	10°♄23'19	
direct	632 Jul 03 j 12:53	28°♄42'24		direct	633 Jun 14 j 13:25	10°♄05'11	
	632 Jul 08 j 13:43	0°♄		morning max el	633 Jun 25 j 04:24	15°♄00'06	20°23'48
morning max el	632 Jul 12 j 14:08	2°♄55'36	19°14'52		633 Jul 06 j 04:41	0°♄	
asc. node	632 Jul 19 j 21:50	12°♄16'05		asc. node	633 Jul 06 j 18:53	1°♄02'46	
morning set	632 Jul 29 j 14:53	0°♄06'24		morning set	633 Jul 13 j 20:08	14°♄42'08	
	632 Jul 29 j 13:36	0°♄					
				superior conj	633 Jul 21 j 11:37	0°♄23'43	1°45'07
superior conj	632 Aug 06 j 19:55	16°♄23'01	1°46'12	minimum elong	633 Jul 21 j 10:40	0°♄18'54	1°45'06
minimum elong	632 Aug 06 j 20:37	16°♄26'24	1°46'11		633 Jul 21 j 06:56	0°♄	
max. Earth dist.	632 Aug 13 j 06:26	28°♄31'26	1.38215 AU	max. Earth dist.	633 Jul 26 j 12:17	10°♄21'18	1.36328 AU
	632 Aug 14 j 01:56	0°♄		evening rise	633 Jul 30 j 11:57	17°♄52'34	
evening rise	632 Aug 17 j 01:19	5°♄17'47			633 Aug 06 j 08:40	0°♄	
desc. node	632 Aug 28 j 02:58	23°♄34'25		desc. node	633 Aug 14 j 23:58	13°♄50'32	
	632 Sep 01 j 08:22	0°♄			633 Aug 26 j 14:17	0°♄	
evening max el	632 Sep 21 j 18:16	26°♄08'29	24°54'03	evening max el	633 Sep 04 j 05:50	9°♄45'59	26°03'00
	632 Sep 26 j 05:05	0°♄		retrograde	633 Sep 16 j 18:33	16°♄53'25	
retrograde	632 Oct 03 j 10:13	2°♄55'17		evening set	633 Sep 23 j 00:46	14°♄16'24	
evening set	632 Oct 09 j 02:14	0°♄31'59		min. Earth dist.	633 Sep 27 j 06:18	9°♄42'58	0.66600 AU
	632 Oct 09 j 16:25	30°♄		inferior conj	633 Sep 28 j 15:24	7°♄59'29	-1°23'56
min. Earth dist.	632 Oct 13 j 15:30	25°♄22'34	0.67300 AU	minimum elong	633 Sep 28 j 17:34	7°♄52'44	1°23'03
inferior conj	632 Oct 14 j 13:23	24°♄10'19	-0°27'20	asc. node	633 Oct 02 j 18:06	3°♄23'39	
minimum elong	632 Oct 14 j 14:04	24°♄08'04	0°27'02	morning rise	633 Oct 04 j 10:42	2°♄07'41	
asc. node	632 Oct 15 j 21:03	22°♄27'17		direct	633 Oct 07 j 14:25	1°♄10'37	
morning rise	632 Oct 20 j 02:02	18°♄09'15		morning max el	633 Oct 14 j 12:01	5°♄02'05	18°57'35
direct	632 Oct 23 j 16:03	16°♄55'13			633 Nov 01 j 02:15	0°♄	
morning max el	632 Oct 31 j 04:13	21°♄12'30	19°52'39	morning set	633 Nov 05 j 13:22	7°♄00'31	
	632 Nov 07 j 08:24	0°♄		desc. node	633 Nov 10 j 23:17	15°♄30'36	
desc. node	632 Nov 24 j 02:16	24°♄55'04			633 Nov 20 j 04:48	0°♄	
morning set	632 Nov 26 j 03:39	28°♄05'29		max. Earth dist.	633 Nov 20 j 12:32	0°♄30'25	1.44918 AU
	632 Nov 27 j 09:15	0°♄					
max. Earth dist.	632 Dec 07 j 20:25	16°♄25'16	1.44083 AU	superior conj	633 Nov 22 j 01:52	2°♄57'26	-1°09'07
				minimum elong	633 Nov 21 j 17:51	2°♄25'51	1°08'12
superior conj	632 Dec 12 j 17:57	24°♄17'29	-1°44'23	evening rise	633 Dec 07 j 07:24	27°♄19'14	
minimum elong	632 Dec 12 j 10:44	23°♄48'16	1°43'49		633 Dec 08 j 22:57	0°♄	

evening max el	633 Dec 27 j 20:59	28° Z 08'30	18°40'59	evening rise	634 Nov 17 j 12:03	7° Z 05'00	
asc. node	633 Dec 29 j 17:23	29° Z 50'04		greatest brilliancy	634 Nov 28 j 17:29	24° Z 33'14	-0.7m
	633 Dec 29 j 22:28	0° \approx			634 Dec 02 j 08:13	0° Z	
retrograde	634 Jan 03 j 13:09	1° \approx 51'56		evening max el	634 Dec 11 j 05:28	11° Z 36'23	19°23'50
evening set	634 Jan 06 j 16:19	0° \approx 56'24		asc. node	634 Dec 16 j 14:26	15° Z 26'14	
	634 Jan 08 j 00:34	30° R Z		retrograde	634 Dec 18 j 09:24	15° Z 43'59	
inferior conj	634 Jan 12 j 10:56	25° Z 18'12	3°32'44	evening set	634 Dec 21 j 19:26	14° Z 35'43	
minimum elong	634 Jan 12 j 08:51	25° Z 24'29	3°32'26	inferior conj	634 Dec 27 j 08:47	8° Z 42'05	3°05'57
min. Earth dist.	634 Jan 14 j 07:53	23° Z 02'40	0.64986 AU	minimum elong	634 Dec 27 j 06:06	8° Z 50'45	3°05'18
morning rise	634 Jan 18 j 00:57	19° Z 09'53		min. Earth dist.	634 Dec 28 j 15:02	7° Z 04'20	0.66241 AU
direct	634 Jan 24 j 18:39	16° Z 17'29		morning rise	635 Jan 01 j 16:33	2° Z 30'24	
desc. node	634 Feb 06 j 22:29	23° Z 54'35			635 Jan 05 j 23:02	30° R Z	
morning max el	634 Feb 07 j 01:50	24° Z 02'57	27°05'39	direct	635 Jan 07 j 23:06	29° Z 43'54	
	634 Feb 12 j 10:37	0° \approx			635 Jan 10 j 01:20	0° Z	
	634 Mar 04 j 20:51	0° H		morning max el	635 Jan 20 j 11:07	7° Z 08'00	26°02'10
morning set	634 Mar 14 j 16:35	17° H 51'11		desc. node	635 Jan 24 j 19:32	11° Z 53'38	
max. Earth dist.	634 Mar 19 j 06:12	26° H 55'00	1.34016 AU		635 Feb 07 j 06:22	0° \approx	
	634 Mar 20 j 18:19	0° Y			635 Feb 25 j 06:46	0° H	
				morning set	635 Feb 25 j 16:28	0° H 44'47	
superior conj	634 Mar 22 j 23:20	4° Y 35'46	-0°48'00	max. Earth dist.	635 Mar 01 j 14:38	8° H 10'42	1.35479 AU
minimum elong	634 Mar 23 j 01:40	4° Y 48'03	0°47'32				
asc. node	634 Mar 27 j 16:41	14° Y 35'08		superior conj	635 Mar 06 j 19:13	18° H 28'30	-1°14'16
evening rise	634 Mar 30 j 08:26	20° Y 10'50		minimum elong	635 Mar 06 j 22:43	18° H 46'11	1°13'42
	634 Apr 04 j 05:00	0° Z			635 Mar 12 j 09:47	0° Y	
evening max el	634 Apr 19 j 17:27	23° Z 04'31	21°42'15	evening rise	635 Mar 14 j 15:35	4° Y 37'01	
retrograde	634 May 02 j 03:05	29° Z 08'11		asc. node	635 Mar 14 j 13:44	4° Y 27'32	
evening set	634 May 04 j 15:28	28° Z 53'56			635 Mar 29 j 04:08	0° Z	
desc. node	634 May 05 j 21:40	28° Z 36'41		evening max el	635 Apr 01 j 22:32	4° Z 14'14	20°21'11
inferior conj	634 May 14 j 01:28	24° Z 51'28	-2°17'35	retrograde	635 Apr 12 j 16:24	9° Z 24'55	
minimum elong	634 May 13 j 19:18	25° Z 00'06	2°15'32	evening set	635 Apr 14 j 18:44	9° Z 13'56	
min. Earth dist.	634 May 13 j 20:57	24° Z 57'47	0.55001 AU	desc. node	635 Apr 22 j 18:43	5° Z 54'02	
morning rise	634 May 23 j 00:04	20° Z 54'50		inferior conj	635 Apr 23 j 20:48	5° Z 16'04	-0°18'49
direct	634 May 26 j 01:19	20° Z 34'20		minimum elong	635 Apr 23 j 19:56	5° Z 17'21	0°18'30
morning max el	634 Jun 07 j 07:27	26° Z 20'59	21°51'24	min. Earth dist.	635 Apr 25 j 10:18	4° Z 21'12	0.55208 AU
	634 Jun 10 j 18:44	0° II		morning rise	635 May 02 j 19:41	0° Z 58'56	
asc. node	634 Jun 23 j 15:56	20° II 19'34		direct	635 May 06 j 13:26	0° Z 28'34	
morning set	634 Jun 28 j 05:24	29° II 30'57		morning max el	635 May 20 j 01:30	7° Z 04'46	23°31'04
	634 Jun 28 j 10:59	0° E			635 Jun 05 j 09:40	0° II	
				asc. node	635 Jun 10 j 12:59	9° II 58'28	
superior conj	634 Jul 05 j 12:07	14° E 51'24	1°37'11	morning set	635 Jun 12 j 16:50	14° II 27'05	
minimum elong	634 Jul 05 j 10:07	14° E 40'56	1°37'02				
max. Earth dist.	634 Jul 09 j 02:11	22° E 16'02	1.34756 AU	superior conj	635 Jun 19 j 18:29	29° II 36'41	1°23'48
	634 Jul 12 j 23:28	0° O		minimum elong	635 Jun 19 j 16:03	29° II 23'34	1°23'30
evening rise	634 Jul 13 j 15:29	1° O 17'30			635 Jun 19 j 22:50	0° E	
	634 Jul 30 j 08:26	0° P		max. Earth dist.	635 Jun 22 j 01:47	4° E 31'44	1.33569 AU
desc. node	634 Aug 01 j 20:59	3° P 44'55		evening rise	635 Jun 27 j 07:25	15° E 19'21	
evening max el	634 Aug 17 j 17:57	23° P 19'34	26°55'03		635 Jul 05 j 01:43	0° O	
	634 Aug 27 j 10:57	0° A		desc. node	635 Jul 19 j 18:01	23° O 07'47	
retrograde	634 Aug 30 j 21:36	0° A 36'41			635 Jul 25 j 02:23	0° P	
	634 Sep 03 j 03:32	30° R P		evening max el	635 Jul 31 j 05:33	6° P 37'39	27°22'46
evening set	634 Sep 06 j 16:16	27° P 52'17		retrograde	635 Aug 13 j 18:43	13° P 56'20	
min. Earth dist.	634 Sep 10 j 14:44	23° P 55'42	0.65549 AU	evening set	635 Aug 20 j 21:52	11° P 13'57	
inferior conj	634 Sep 12 j 11:59	21° P 44'26	-2°20'33	min. Earth dist.	635 Aug 24 j 14:27	7° P 52'33	0.64143 AU
minimum elong	634 Sep 12 j 15:35	21° P 33'57	2°19'12	inferior conj	635 Aug 27 j 00:39	5° P 19'05	-3°14'38
morning rise	634 Sep 18 j 15:31	16° P 04'56		minimum elong	635 Aug 27 j 05:21	5° P 06'40	3°13'10
asc. node	634 Sep 19 j 15:09	15° P 39'45			635 Sep 02 j 09:37	30° R O	
direct	634 Sep 21 j 11:19	15° P 21'03		morning rise	635 Sep 02 j 13:47	29° O 55'22	
morning max el	634 Sep 28 j 01:04	18° P 55'51	18°18'46	direct	635 Sep 05 j 04:13	29° O 21'07	
	634 Oct 06 j 08:33	0° A		asc. node	635 Sep 06 j 12:13	29° O 30'14	
morning set	634 Oct 17 j 02:59	17° A 20'30			635 Sep 07 j 22:34	0° P	
	634 Oct 24 j 22:42	0° M		morning max el	635 Sep 11 j 16:42	2° P 47'33	17°57'05
desc. node	634 Oct 28 j 20:19	6° M 13'33		morning set	635 Sep 28 j 20:06	29° P 00'14	
					635 Sep 29 j 10:05	0° A	
superior conj	634 Nov 01 j 03:08	11° M 25'35	-0°21'37				
minimum elong	634 Nov 01 j 00:18	11° M 14'27	0°21'14	superior conj	635 Oct 11 j 19:02	20° A 39'52	0°26'01
max. Earth dist.	634 Nov 03 j 07:17	14° M 51'05	1.45028 AU	minimum elong	635 Oct 11 j 21:54	20° A 51'31	0°25'38
	634 Nov 12 j 23:21	0° Z		desc. node	635 Oct 15 j 17:20	26° A 59'54	

max. Earth dist.	635 Oct 17 j 01:38	29°♊08'37	1.44405 AU		636 Oct 09 j 09:33	0°♍	
	635 Oct 17 j 14:34	0°♍			636 Oct 30 j 02:05	0°♊	
evening rise	635 Oct 27 j 23:10	16°♍10'44		evening max el	636 Nov 06 j 06:50	8°♊34'19	21°31'49
	635 Nov 06 j 00:49	0°♊		retrograde	636 Nov 15 j 04:15	13°♊51'42	
evening max el	635 Nov 24 j 09:04	25°♊05'20	20°21'45	evening set	636 Nov 19 j 09:28	12°♊12'53	
retrograde	635 Dec 02 j 07:07	29°♊45'01		asc. node	636 Nov 19 j 08:32	12°♊14'43	
asc. node	635 Dec 03 j 11:29	29°♊37'06		inferior conj	636 Nov 24 j 18:00	5°♊57'16	1°46'26
evening set	635 Dec 06 j 01:47	28°♊22'19		minimum elong	636 Nov 24 j 15:49	6°♊04'49	1°45'37
inferior conj	635 Dec 11 j 11:53	22°♊16'01	2°29'47	min. Earth dist.	636 Nov 24 j 23:22	5°♊38'46	0.67580 AU
minimum elong	635 Dec 11 j 09:12	22°♊25'03	2°28'56	morning rise	636 Nov 29 j 22:02	29°♍44'27	
min. Earth dist.	635 Dec 12 j 04:56	21°♊18'22	0.67097 AU		636 Nov 29 j 15:05	30°♍	
morning rise	635 Dec 16 j 16:28	16°♊02'52		direct	636 Dec 04 j 23:07	27°♍34'43	
direct	635 Dec 22 j 08:48	13°♊32'05			636 Dec 11 j 00:42	0°♊	
morning max el	636 Jan 02 j 19:35	20°♊21'27	24°41'30	morning max el	636 Dec 15 j 04:50	3°♊39'53	23°13'41
	636 Jan 11 j 02:27	0°♋		desc. node	636 Dec 28 j 13:38	20°♊15'36	
desc. node	636 Jan 11 j 16:36	0°♋45'45			637 Jan 04 j 07:35	0°♋	
	636 Jan 31 j 11:01	0°♌		morning set	637 Jan 19 j 01:21	23°♋16'06	
morning set	636 Feb 07 j 21:29	12°♌38'33			637 Jan 23 j 00:16	0°♌	
max. Earth dist.	636 Feb 11 j 13:19	19°♌13'11	1.37350 AU	max. Earth dist.	637 Jan 23 j 08:32	0°♌35'50	1.39459 AU
	636 Feb 17 j 06:51	0°♍					
superior conj	636 Feb 18 j 04:45	1°♍46'07	-1°37'34	superior conj	637 Jan 30 j 23:44	14°♌17'29	-1°55'04
minimum elong	636 Feb 18 j 08:45	2°♍05'36	1°37'07	minimum elong	637 Jan 31 j 02:58	14°♌32'24	1°54'53
evening rise	636 Feb 26 j 17:12	18°♍41'11		evening rise	637 Feb 08 j 06:18	0°♍	
asc. node	636 Feb 29 j 10:48	24°♍04'46		asc. node	637 Feb 09 j 10:27	2°♍15'31	
	636 Mar 03 j 13:45	0°♎		evening max el	637 Feb 15 j 07:51	13°♍20'37	
evening max el	636 Mar 14 j 14:57	16°♎02'33	19°18'08		637 Feb 25 j 16:51	28°♍25'53	18°35'00
retrograde	636 Mar 23 j 16:31	20°♎24'40		retrograde	637 Feb 27 j 12:37	0°♎	
evening set	636 Mar 25 j 20:22	20°♎10'52		evening set	637 Mar 05 j 10:50	2°♎13'16	
inferior conj	636 Apr 03 j 04:55	16°♎02'00	1°30'29		637 Mar 07 j 19:51	1°♎53'07	
minimum elong	636 Apr 03 j 08:20	15°♎56'19	1°29'22	inferior conj	637 Mar 11 j 19:54	30°♎	
min. Earth dist.	636 Apr 06 j 01:03	14°♎09'27	0.56319 AU	minimum elong	637 Mar 15 j 09:19	27°♎25'44	2°48'26
desc. node	636 Apr 08 j 15:46	12°♎35'56		min. Earth dist.	637 Mar 15 j 13:26	27°♎17'43	2°47'28
morning rise	636 Apr 11 j 17:28	11°♎12'15		morning rise	637 Mar 18 j 18:59	24°♎48'25	0.58095 AU
direct	636 Apr 16 j 11:53	10°♎20'07		desc. node	637 Mar 23 j 04:08	22°♎04'22	
morning max el	636 Apr 30 j 16:05	17°♎33'31	25°10'41	direct	637 Mar 26 j 12:49	20°♎53'49	
	636 May 10 j 21:35	0°♏		morning max el	637 Mar 29 j 00:14	20°♎38'11	
morning set	636 May 27 j 04:47	29°♏25'19			637 Apr 12 j 09:06	28°♎14'47	26°34'39
asc. node	636 May 27 j 10:03	29°♏53'10			637 Apr 14 j 02:32	0°♏	
	636 May 27 j 11:21	0°♐		morning set	637 May 04 j 10:32	0°♏	
				asc. node	637 May 11 j 15:30	14°♏18'37	
superior conj	636 Jun 03 j 04:28	14°♐32'22	1°06'05		637 May 14 j 07:06	19°♏57'23	
minimum elong	636 Jun 03 j 02:07	14°♐19'30	1°05'40	superior conj	637 May 18 j 16:04	29°♏30'46	0°44'50
max. Earth dist.	636 Jun 04 j 09:13	17°♐08'55	1.32770 AU	minimum elong	637 May 18 j 14:14	29°♏20'44	0°44'27
evening rise	636 Jun 10 j 08:08	29°♐47'18			637 May 18 j 21:23	0°♐	
	636 Jun 10 j 10:37	0°♑		max. Earth dist.	637 May 18 j 20:52	29°♏57'13	1.32348 AU
	636 Jun 27 j 03:42	0°♑		evening rise	637 May 25 j 14:41	14°♐30'55	
desc. node	636 Jul 05 j 15:03	11°♑46'04			637 Jun 02 j 11:11	0°♑	
evening max el	636 Jul 12 j 14:15	19°♑26'49	27°20'20	desc. node	637 Jun 22 j 12:04	29°♑20'08	
retrograde	636 Jul 26 j 09:19	26°♑43'55			637 Jun 23 j 03:21	0°♑	
evening set	636 Aug 02 j 13:59	24°♑15'51		evening max el	637 Jun 24 j 17:26	1°♑34'17	26°44'55
min. Earth dist.	636 Aug 06 j 03:55	21°♑22'56	0.62400 AU	retrograde	637 Jul 08 j 16:41	8°♑49'20	
inferior conj	636 Aug 09 j 02:32	18°♑37'02	-4°02'15	evening set	637 Jul 15 j 12:04	6°♑49'22	
minimum elong	636 Aug 09 j 07:25	18°♑25'30	4°01'08	min. Earth dist.	637 Jul 19 j 07:05	4°♑11'25	0.60397 AU
morning rise	636 Aug 16 j 02:13	13°♑32'34		inferior conj	637 Jul 22 j 14:06	1°♑28'47	-4°37'08
direct	636 Aug 18 j 13:47	13°♑05'04		minimum elong	637 Jul 22 j 17:30	1°♑21'44	4°36'44
asc. node	636 Aug 23 j 09:16	14°♑51'03			637 Jul 24 j 10:05	30°♑	
morning max el	636 Aug 25 j 08:08	16°♑31'20	17°53'26	morning rise	637 Jul 30 j 00:51	26°♑46'18	
	636 Sep 03 j 20:01	0°♒		direct	637 Aug 01 j 11:53	26°♑23'17	
morning set	636 Sep 10 j 10:57	11°♒42'16			637 Aug 08 j 20:45	0°♒	
	636 Sep 20 j 20:18	0°♓		morning max el	637 Aug 08 j 20:17	29°♑58'53	18°08'57
				asc. node	637 Aug 10 j 06:19	1°♒27'51	
superior conj	636 Sep 21 j 13:25	1°♓13'04	1°04'06	morning set	637 Aug 24 j 17:43	25°♒09'59	
minimum elong	636 Sep 21 j 18:17	1°♓33'44	1°03'31		637 Aug 27 j 07:33	0°♒	
max. Earth dist.	636 Sep 28 j 16:14	13°♓03'47	1.43133 AU				
desc. node	636 Oct 01 j 14:22	17°♓46'39		superior conj	637 Sep 03 j 09:57	13°♒03'38	1°29'30
evening rise	636 Oct 06 j 07:43	25°♓14'11		minimum elong	637 Sep 03 j 13:51	13°♒21'05	1°29'09

max. Earth dist.	637 Sep 11 j 01:00	26° \mathbb{M} 20'14	1.41376 AU	desc. node	638 Sep 05 j 08:23	29° \mathbb{M} 07'24	
	637 Sep 13 j 05:35	0° $\underline{\mathbf{a}}$			638 Sep 05 j 21:48	0° $\underline{\mathbf{a}}$	
evening rise	637 Sep 16 j 06:45	4° $\underline{\mathbf{a}}$ 59'25			638 Sep 27 j 08:48	0° \mathbb{M}	
desc. node	637 Sep 18 j 11:23	8° $\underline{\mathbf{a}}$ 30'28		evening max el	638 Oct 02 j 12:18	5° \mathbb{M} 38'48	24°09'55
	637 Oct 02 j 16:20	0° \mathbb{M}		retrograde	638 Oct 13 j 14:33	12° \mathbb{M} 09'26	
evening max el	637 Oct 19 j 23:17	22° \mathbb{M} 04'50	22°49'48	evening set	638 Oct 18 j 22:03	9° \mathbb{M} 55'58	
retrograde	637 Oct 29 j 23:10	28° \mathbb{M} 01'05		min. Earth dist.	638 Oct 23 j 16:10	4° \mathbb{M} 26'20	0.67544 AU
evening set	637 Nov 03 j 16:47	26° \mathbb{M} 05'02		inferior conj	638 Oct 24 j 07:51	3° \mathbb{M} 33'20	0°04'33
asc. node	637 Nov 06 j 05:34	23° \mathbb{M} 28'05		minimum elong	638 Oct 24 j 07:45	3° \mathbb{M} 33'43	0°04'30
inferior conj	637 Nov 09 j 01:15	19° \mathbb{M} 43'53	0°57'34	transit middle	638 Oct 24 j 07:45	3° \mathbb{M} 33'43	0°04'30
minimum elong	637 Nov 08 j 23:57	19° \mathbb{M} 48'23	0°57'02	transit begin	638 Oct 24 j 05:07	3° \mathbb{M} 42'35	
min. Earth dist.	637 Nov 08 j 19:56	20° \mathbb{M} 02'16	0.67721 AU	transit end	638 Oct 24 j 10:22	3° \mathbb{M} 24'52	
morning rise	637 Nov 14 j 07:01	13° \mathbb{M} 33'30		asc. node	638 Oct 24 j 02:35	3° \mathbb{M} 51'09	
direct	637 Nov 18 j 17:20	11° \mathbb{M} 46'24			638 Oct 27 j 02:21	30° \mathbb{R} $\underline{\mathbf{a}}$	
morning max el	637 Nov 27 j 18:01	17° \mathbb{M} 05'00	21°47'52	morning rise	638 Oct 29 j 17:25	27° $\underline{\mathbf{a}}$ 27'54	
	637 Dec 08 j 06:25	0° \mathbb{X}		direct	638 Nov 02 j 14:21	26° $\underline{\mathbf{a}}$ 02'23	
desc. node	637 Dec 15 j 10:39	10° \mathbb{X} 12'32			638 Nov 09 j 21:58	0° \mathbb{M}	
	637 Dec 28 j 10:18	0° \mathbb{Z}		morning max el	638 Nov 10 j 14:00	0° \mathbb{M} 39'26	20°30'58
morning set	637 Dec 30 j 00:02	2° \mathbb{Z} 29'53		desc. node	638 Dec 02 j 07:38	0° \mathbb{X} 28'31	
max. Earth dist.	638 Jan 05 j 07:21	12° \mathbb{Z} 46'02	1.41539 AU		638 Dec 02 j 00:07	0° \mathbb{X}	
				morning set	638 Dec 08 j 23:53	10° \mathbb{X} 43'00	
superior conj	638 Jan 12 j 23:06	25° \mathbb{Z} 50'28	-2°02'54	max. Earth dist.	638 Dec 18 j 13:43	25° \mathbb{X} 51'00	1.43310 AU
minimum elong	638 Jan 12 j 23:28	25° \mathbb{Z} 52'00	2°02'54		638 Dec 21 j 03:08	0° \mathbb{Z}	
	638 Jan 15 j 07:34	0° \approx					
evening rise	638 Jan 23 j 15:53	15° \approx 12'00		superior conj	638 Dec 24 j 21:38	6° \mathbb{Z} 12'51	-1°56'21
	638 Jan 31 j 21:47	0° \mathbb{X}		minimum elong	638 Dec 24 j 17:06	5° \mathbb{Z} 54'01	1°56'06
asc. node	638 Feb 02 j 04:54	2° \mathbb{X} 08'10		evening rise	639 Jan 06 j 05:20	27° \mathbb{Z} 21'26	
evening max el	638 Feb 09 j 01:21	11° \mathbb{X} 16'49	18°11'59		639 Jan 07 j 17:26	0° \approx	
retrograde	638 Feb 15 j 23:07	14° \mathbb{X} 45'26		asc. node	639 Jan 20 j 01:55	20° \approx 17'53	
evening set	638 Feb 18 j 13:25	14° \mathbb{X} 16'44		evening max el	639 Jan 23 j 13:16	24° \approx 25'53	18°08'33
inferior conj	638 Feb 25 j 10:26	9° \mathbb{X} 28'33	3°32'04	retrograde	639 Jan 30 j 01:39	27° \approx 50'28	
minimum elong	638 Feb 25 j 12:53	9° \mathbb{X} 23'00	3°31'46	evening set	639 Feb 01 j 20:45	27° \approx 11'58	
min. Earth dist.	638 Feb 28 j 18:28	6° \mathbb{X} 29'15	0.60190 AU	inferior conj	639 Feb 08 j 04:55	22° \approx 03'01	3°47'43
morning rise	638 Mar 04 j 10:17	3° \mathbb{X} 45'05		minimum elong	639 Feb 08 j 05:13	22° \approx 02'16	3°47'43
direct	638 Mar 11 j 01:11	1° \mathbb{X} 41'12		min. Earth dist.	639 Feb 11 j 01:45	19° \approx 06'44	0.62270 AU
desc. node	638 Mar 13 j 09:51	1° \mathbb{X} 56'15		morning rise	639 Feb 14 j 12:31	16° \approx 06'07	
morning max el	638 Mar 25 j 07:50	9° \mathbb{X} 29'58	27°29'26	direct	639 Feb 21 j 11:46	13° \approx 32'25	
	638 Apr 10 j 02:27	0° \mathbb{Y}		desc. node	639 Feb 28 j 06:52	15° \approx 38'00	
morning set	638 Apr 25 j 23:16	29° \mathbb{Y} 01'11		morning max el	639 Mar 07 j 12:21	21° \approx 25'30	27°48'07
	638 Apr 26 j 10:35	0° \mathbb{X}			639 Mar 14 j 23:58	0° \mathbb{X}	
asc. node	638 May 01 j 04:09	10° \mathbb{X} 06'48			639 Apr 03 j 03:30	0° \mathbb{Y}	
max. Earth dist.	638 May 02 j 09:12	12° \mathbb{X} 45'27	1.32304 AU	morning set	639 Apr 10 j 02:02	13° \mathbb{Y} 25'55	
				max. Earth dist.	639 Apr 15 j 18:24	25° \mathbb{Y} 20'38	1.32642 AU
superior conj	638 May 03 j 03:35	14° \mathbb{X} 26'13	0°20'48				
minimum elong	638 May 03 j 02:39	14° \mathbb{X} 21'08	0°20'36	superior conj	639 Apr 17 j 13:21	29° \mathbb{Y} 12'50	-0°05'14
evening rise	638 May 10 j 00:47	29° \mathbb{X} 22'58		minimum elong	639 Apr 17 j 13:36	29° \mathbb{Y} 14'09	0°05'11
	638 May 10 j 07:48	0° \mathbb{I}		behind sun begin	639 Apr 17 j 08:42	28° \mathbb{Y} 47'32	
	638 May 26 j 22:56	0° \mathbb{E}		behind sun end	639 Apr 17 j 18:30	29° \mathbb{Y} 40'47	
evening max el	638 Jun 06 j 13:48	12° \mathbb{E} 56'08	25°38'40		639 Apr 17 j 22:02	0° \mathbb{X}	
desc. node	638 Jun 09 j 09:06	15° \mathbb{E} 23'46		asc. node	639 Apr 18 j 01:12	0° \mathbb{X} 17'11	
retrograde	638 Jun 20 j 14:54	20° \mathbb{E} 06'48		evening rise	639 Apr 24 j 12:30	14° \mathbb{X} 16'32	
evening set	638 Jun 26 j 11:50	18° \mathbb{E} 45'04			639 May 02 j 10:25	0° \mathbb{I}	
min. Earth dist.	638 Jul 01 j 02:05	16° \mathbb{E} 03'59	0.58340 AU	evening max el	639 May 19 j 04:57	23° \mathbb{I} 41'29	24°10'34
inferior conj	638 Jul 04 j 07:51	13° \mathbb{E} 45'07	-4°49'23	desc. node	639 May 27 j 06:07	29° \mathbb{I} 23'09	
minimum elong	638 Jul 04 j 07:31	13° \mathbb{E} 45'42	4°49'24		639 May 28 j 21:22	0° \mathbb{E}	
morning rise	638 Jul 12 j 05:42	9° \mathbb{E} 24'56		retrograde	639 Jun 02 j 01:14	0° \mathbb{E} 39'32	
direct	638 Jul 14 j 18:12	9° \mathbb{E} 04'47			639 Jun 06 j 06:20	30° \mathbb{R} \mathbb{I}	
morning max el	638 Jul 23 j 01:59	13° \mathbb{E} 00'59	18°44'45	evening set	639 Jun 06 j 13:02	29° \mathbb{I} 54'43	
asc. node	638 Jul 28 j 03:21	19° \mathbb{E} 05'26		min. Earth dist.	639 Jun 12 j 16:05	26° \mathbb{I} 54'37	0.56535 AU
	638 Aug 03 j 16:21	0° \mathbb{Q}		inferior conj	639 Jun 15 j 05:33	25° \mathbb{I} 18'46	-4°25'58
morning set	638 Aug 08 j 11:47	9° \mathbb{Q} 10'56		minimum elong	639 Jun 15 j 00:18	25° \mathbb{I} 27'00	4°25'12
				morning rise	639 Jun 23 j 14:18	21° \mathbb{I} 17'23	
superior conj	638 Aug 17 j 03:25	25° \mathbb{Q} 56'22	1°43'01	direct	639 Jun 26 j 05:52	20° \mathbb{I} 58'48	
minimum elong	638 Aug 17 j 05:16	26° \mathbb{Q} 05'10	1°42'56	morning max el	639 Jul 05 j 22:24	25° \mathbb{I} 28'31	19°41'42
	638 Aug 19 j 07:26	0° \mathbb{M}			639 Jul 09 j 23:46	0° \mathbb{E}	
max. Earth dist.	638 Aug 24 j 05:02	8° \mathbb{M} 52'56	1.39373 AU	asc. node	639 Jul 15 j 00:24	7° \mathbb{E} 30'27	
evening rise	638 Aug 28 j 05:35	15° \mathbb{M} 51'29		morning set	639 Jul 23 j 13:46	23° \mathbb{E} 36'33	

	639 Jul 26 j 17:35	0°♎		superior conj	640 Jul 14 j 08:12	23°♊49'30	1°42'30
				minimum elong	640 Jul 14 j 06:44	23°♊41'56	1°42'26
superior conj	639 Jul 31 j 12:21	9°♎36'15	1°46'41		640 Jul 17 j 09:08	0°♎	
minimum elong	639 Jul 31 j 12:17	9°♎35'54	1°46'41	max. Earth dist.	640 Jul 18 j 18:08	2°♎44'13	1.35613 AU
max. Earth dist.	639 Aug 06 j 08:56	20°♎53'42	1.37381 AU	evening rise	640 Jul 22 j 22:45	10°♎49'20	
evening rise	639 Aug 10 j 04:20	27°♎51'58			640 Aug 02 j 21:27	0°♎	
	639 Aug 11 j 09:08	0°♎		desc. node	640 Aug 09 j 02:28	9°♎41'01	
desc. node	639 Aug 23 j 05:26	19°♎33'08			640 Aug 24 j 16:18	0°♎	
	639 Aug 30 j 07:15	0°♎		evening max el	640 Aug 27 j 12:01	2°♎53'37	26°27'39
evening max el	639 Sep 15 j 00:08	19°♎16'49	25°25'03	retrograde	640 Sep 09 j 07:26	10°♎05'42	
retrograde	639 Sep 27 j 01:29	26°♎13'07		evening set	640 Sep 15 j 19:26	7°♎24'31	
evening set	639 Oct 02 j 23:37	23°♎43'43		min. Earth dist.	640 Sep 19 j 21:53	3°♎07'00	0.66200 AU
min. Earth dist.	639 Oct 07 j 09:38	18°♎49'18	0.67045 AU	inferior conj	640 Sep 21 j 12:03	1°♎11'14	-1°48'03
inferior conj	639 Oct 08 j 12:06	17°♎23'46	-0°51'10	minimum elong	640 Sep 21 j 14:50	1°♎02'45	1°46'57
minimum elong	639 Oct 08 j 13:24	17°♎19'34	0°50'37		640 Sep 22 j 11:45	30°♎	
asc. node	639 Oct 10 j 23:36	14°♎19'42		asc. node	640 Sep 26 j 20:39	25°♎46'00	
morning rise	639 Oct 14 j 03:21	11°♎26'07		morning rise	640 Sep 27 j 10:41	25°♎24'27	
direct	639 Oct 17 j 12:48	10°♎19'32		direct	640 Sep 30 j 10:49	24°♎33'20	
morning max el	639 Oct 24 j 17:46	14°♎24'23	19°27'19	morning max el	640 Oct 07 j 04:07	28°♎16'15	18°39'07
	639 Nov 05 j 12:24	0°♎			640 Oct 08 j 18:20	0°♎	
morning set	639 Nov 17 j 23:10	19°♎03'57		morning set	640 Oct 27 j 20:05	28°♎33'55	
desc. node	639 Nov 19 j 04:41	20°♎58'31			640 Oct 28 j 17:42	0°♎	
	639 Nov 24 j 23:41	0°♎		desc. node	640 Nov 05 j 01:45	11°♎37'46	
max. Earth dist.	639 Dec 01 j 03:33	9°♎41'24	1.44534 AU				
				superior conj	640 Nov 12 j 20:10	23°♎51'18	-0°49'48
superior conj	639 Dec 04 j 17:46	15°♎24'09	-1°31'32	minimum elong	640 Nov 12 j 13:50	23°♎26'25	0°49'01
minimum elong	639 Dec 04 j 09:25	14°♎50'49	1°30'44	max. Earth dist.	640 Nov 12 j 21:44	23°♎57'27	1.45057 AU
	639 Dec 13 j 17:53	0°♎			640 Nov 16 j 17:58	0°♎	
evening rise	639 Dec 18 j 22:38	8°♎37'12		evening rise	640 Nov 28 j 16:38	18°♎55'05	
	640 Jan 01 j 01:05	0°♎			640 Dec 05 j 15:15	0°♎	
asc. node	640 Jan 06 j 22:57	7°♎38'52		greatest brilliancy	640 Dec 06 j 16:34	1°♎40'30	-0.8m
evening max el	640 Jan 07 j 01:44	7°♎45'59	18°23'55	evening max el	640 Dec 20 j 12:14	21°♎12'00	18°57'09
retrograde	640 Jan 13 j 14:05	11°♎19'18		asc. node	640 Dec 23 j 19:58	23°♎57'51	
evening set	640 Jan 16 j 14:07	10°♎30'08		retrograde	640 Dec 27 j 08:31	25°♎04'45	
inferior conj	640 Jan 22 j 12:50	5°♎01'47	3°42'41	evening set	640 Dec 30 j 14:27	24°♎03'53	
minimum elong	640 Jan 22 j 11:25	5°♎05'51	3°42'33	inferior conj	641 Jan 05 j 06:31	18°♎18'30	3°22'41
min. Earth dist.	640 Jan 24 j 18:34	2°♎28'00	0.64102 AU	minimum elong	641 Jan 05 j 04:07	18°♎26'02	3°22'14
	640 Jan 27 j 03:31	30°♎		min. Earth dist.	641 Jan 06 j 20:57	16°♎18'44	0.65568 AU
morning rise	640 Jan 28 j 08:09	28°♎56'45		morning rise	641 Jan 10 j 17:28	12°♎08'25	
direct	640 Feb 04 j 05:57	26°♎07'12		direct	641 Jan 17 j 06:48	9°♎17'26	
	640 Feb 13 j 10:02	0°♎		morning max el	641 Jan 30 j 06:48	16°♎55'20	26°41'28
desc. node	640 Feb 15 j 03:54	1°♎25'39		desc. node	641 Feb 01 j 00:57	18°♎45'06	
morning max el	640 Feb 17 j 20:52	3°♎57'29	27°30'26		641 Feb 10 j 04:49	0°♎	
	640 Mar 08 j 11:53	0°♎			641 Mar 01 j 08:38	0°♎	
morning set	640 Mar 23 j 21:16	27°♎24'21		morning set	641 Mar 07 j 05:33	10°♎46'12	
	640 Mar 25 j 04:34	0°♎		max. Earth dist.	641 Mar 11 j 12:24	19°♎06'54	1.34588 AU
max. Earth dist.	640 Mar 28 j 20:38	7°♎30'24	1.33393 AU				
				superior conj	641 Mar 15 j 19:58	27°♎53'34	-0°59'21
superior conj	640 Mar 31 j 19:31	13°♎44'05	-0°32'20	minimum elong	641 Mar 15 j 22:50	28°♎08'27	0°58'49
minimum elong	640 Mar 31 j 21:06	13°♎52'29	0°32'00		641 Mar 16 j 20:19	0°♎	
asc. node	640 Apr 03 j 22:15	20°♎24'08		asc. node	641 Mar 21 j 19:19	10°♎23'34	
evening rise	640 Apr 07 j 23:58	29°♎04'54		evening rise	641 Mar 23 j 09:21	13°♎41'42	
	640 Apr 08 j 10:29	0°♎			641 Mar 31 j 19:22	0°♎	
	640 Apr 25 j 23:27	0°♎		evening max el	641 Apr 11 j 19:02	15°♎04'19	21°05'42
evening max el	640 Apr 29 j 20:19	4°♎13'57	22°34'51	retrograde	641 Apr 23 j 12:48	20°♎46'35	
retrograde	640 May 12 j 22:55	10°♎43'10		evening set	641 Apr 25 j 18:53	20°♎34'43	
desc. node	640 May 13 j 03:09	10°♎43'05		desc. node	641 Apr 30 j 00:10	19°♎15'42	
evening set	640 May 16 j 01:24	10°♎22'00		inferior conj	641 May 05 j 03:10	16°♎35'53	-1°28'11
min. Earth dist.	640 May 24 j 04:11	6°♎50'31	0.55320 AU	minimum elong	641 May 04 j 23:01	16°♎41'45	1°26'43
inferior conj	640 May 25 j 08:55	6°♎09'38	-3°16'40	min. Earth dist.	641 May 05 j 16:54	16°♎16'29	0.54970 AU
minimum elong	640 May 25 j 01:27	6°♎20'17	3°14'36	morning rise	641 May 14 j 03:10	12°♎32'58	
morning rise	640 Jun 03 j 03:39	2°♎16'46		direct	641 May 17 j 09:57	12°♎09'40	
direct	640 Jun 06 j 00:04	1°♎58'05		morning max el	641 May 30 j 06:38	18°♎18'00	22°32'59
morning max el	640 Jun 17 j 07:43	7°♎13'51	20°59'08		641 Jun 08 j 17:52	0°♎	
asc. node	640 Jun 30 j 21:27	26°♎31'01		asc. node	641 Jun 17 j 18:33	15°♎58'19	
	640 Jul 02 j 17:32	0°♎		morning set	641 Jun 21 j 07:25	23°♎11'29	
morning set	640 Jul 06 j 21:00	8°♎18'42			641 Jun 24 j 12:38	0°♎	

superior conj	641 Jun 28 j 11:33	8°♊25'52	1°32'07		642 Jun 01 j 19:43	0°♊	
minimum elong	641 Jun 28 j 09:18	8°♊13'56	1°31'53	asc. node	642 Jun 04 j 15:38	5°♊44'34	
max. Earth dist.	641 Jul 01 j 12:09	14°♊46'31	1.34200 AU	morning set	642 Jun 05 j 19:15	8°♊08'58	
evening rise	641 Jul 06 j 08:03	24°♊31'09					
	641 Jul 09 j 04:29	0°♊		superior conj	642 Jun 12 j 19:43	23°♊16'34	1°16'46
desc. node	641 Jul 26 j 23:30	29°♊23'12		minimum elong	642 Jun 12 j 17:15	23°♊03'13	1°16'24
	641 Jul 27 j 09:53	0°♊		max. Earth dist.	642 Jun 14 j 15:07	27°♊10'25	1.33179 AU
evening max el	641 Aug 09 j 23:51	16°♊20'53	27°10'07		642 Jun 15 j 22:54	0°♊	
retrograde	641 Aug 23 j 08:03	23°♊39'52		evening rise	642 Jun 20 j 04:06	8°♊45'17	
evening set	641 Aug 30 j 07:07	20°♊54'34			642 Jul 01 j 14:21	0°♊	
min. Earth dist.	641 Sep 03 j 02:42	17°♊13'43	0.64994 AU	desc. node	642 Jul 13 j 20:31	18°♊29'01	
inferior conj	641 Sep 05 j 05:33	14°♊51'47	-2°44'02	evening max el	642 Jul 23 j 10:23	29°♊27'52	27°25'42
minimum elong	641 Sep 05 j 09:41	14°♊40'13	2°42'35		642 Jul 24 j 00:06	0°♊	
morning rise	641 Sep 11 j 13:03	9°♊18'55		retrograde	642 Aug 06 j 02:48	6°♊46'59	
asc. node	641 Sep 13 j 17:43	8°♊41'06		evening set	642 Aug 13 j 07:30	4°♊08'58	
direct	641 Sep 14 j 06:13	8°♊39'39		min. Earth dist.	642 Aug 16 j 22:16	1°♊00'49	0.63431 AU
morning max el	641 Sep 20 j 18:39	12°♊09'50	18°07'27		642 Aug 17 j 22:44	30°♊	
	641 Oct 03 j 04:49	0°♊		inferior conj	642 Aug 19 j 14:01	28°♊20'17	-3°36'00
morning set	641 Oct 08 j 21:49	9°♊28'45		minimum elong	642 Aug 19 j 18:57	28°♊07'50	3°34'37
	641 Oct 21 j 11:07	0°♊		morning rise	642 Aug 26 j 07:33	23°♊04'27	
desc. node	641 Oct 22 j 22:47	2°♊22'22		direct	642 Aug 28 j 20:19	22°♊33'33	
				asc. node	642 Aug 31 j 14:48	23°♊11'11	
superior conj	641 Oct 23 j 01:19	2°♊32'29	-0°00'42	morning max el	642 Sep 04 j 10:36	25°♊59'14	17°53'16
minimum elong	641 Oct 23 j 01:13	2°♊32'05	0°00'41		642 Sep 07 j 20:12	0°♊	
behind sun begin	641 Oct 22 j 14:27	1°♊49'10		morning set	642 Sep 21 j 00:56	21°♊37'08	
behind sun end	641 Oct 23 j 11:58	3°♊14'57			642 Sep 25 j 20:52	0°♊	
max. Earth dist.	641 Oct 26 j 16:27	8°♊17'53	1.44840 AU				
evening rise	641 Nov 08 j 12:28	28°♊19'56		superior conj	642 Oct 03 j 03:53	12°♊18'58	0°43'40
	641 Nov 09 j 14:19	0°♊		minimum elong	642 Oct 03 j 08:05	12°♊36'19	0°43'06
greatest brilliancy	641 Nov 21 j 15:13	18°♊25'51	-0.7m	max. Earth dist.	642 Oct 09 j 08:56	22°♊25'59	1.43926 AU
	641 Nov 29 j 19:15	0°♊		desc. node	642 Oct 09 j 19:48	23°♊09'32	
evening max el	641 Dec 03 j 18:42	4°♊39'59	19°46'47		642 Oct 14 j 03:25	0°♊	
asc. node	641 Dec 10 j 17:00	8°♊59'21		evening rise	642 Oct 18 j 20:12	7°♊18'50	
retrograde	641 Dec 11 j 05:49	9°♊00'57			642 Nov 02 j 22:22	0°♊	
evening set	641 Dec 14 j 19:11	7°♊46'52		evening max el	642 Nov 16 j 19:51	18°♊09'10	20°50'23
inferior conj	641 Dec 20 j 06:55	1°♊47'18	2°51'37	retrograde	642 Nov 25 j 03:29	23°♊04'39	
minimum elong	641 Dec 20 j 04:10	1°♊56'23	2°50'53	asc. node	642 Nov 27 j 14:02	22°♊31'04	
min. Earth dist.	641 Dec 21 j 07:21	0°♊26'30	0.66643 AU	evening set	642 Nov 29 j 02:18	21°♊35'32	
	641 Dec 21 j 15:27	30°♊		inferior conj	642 Dec 04 j 11:33	15°♊25'00	2°12'12
morning rise	641 Dec 25 j 12:56	25°♊34'32		minimum elong	642 Dec 04 j 09:02	15°♊33'37	2°11'21
direct	641 Dec 31 j 13:35	22°♊53'46		min. Earth dist.	642 Dec 04 j 23:33	14°♊43'53	0.67340 AU
morning max el	642 Jan 12 j 15:53	0°♊05'34	25°29'27	morning rise	642 Dec 09 j 15:34	9°♊11'33	
	642 Jan 12 j 13:40	0°♊		direct	642 Dec 15 j 01:30	6°♊49'01	
desc. node	642 Jan 18 j 22:00	7°♊09'03		morning max el	642 Dec 26 j 00:12	13°♊20'50	24°04'26
	642 Feb 04 j 02:50	0°♊		desc. node	643 Jan 05 j 19:02	26°♊18'58	
morning set	642 Feb 17 j 22:12	23°♊16'58			643 Jan 08 j 11:37	0°♊	
max. Earth dist.	642 Feb 21 j 16:09	0°♊13'34	1.36229 AU		643 Jan 27 j 23:26	0°♊	
	642 Feb 21 j 13:17	0°♊		morning set	643 Jan 30 j 17:17	4°♊40'27	
				max. Earth dist.	643 Feb 03 j 11:52	11°♊18'10	1.38231 AU
superior conj	642 Feb 27 j 11:52	11°♊32'32	-1°24'39				
minimum elong	642 Feb 27 j 15:41	11°♊51'35	1°24'07	superior conj	643 Feb 10 j 15:46	24°♊32'09	-1°45'54
evening rise	642 Mar 07 j 14:27	27°♊59'28		minimum elong	643 Feb 10 j 19:39	24°♊50'39	1°45'33
asc. node	642 Mar 08 j 16:21	0°♊10'11			643 Feb 13 j 11:53	0°♊	
	642 Mar 08 j 14:20	0°♊		evening rise	643 Feb 19 j 12:51	11°♊51'41	
evening max el	642 Mar 25 j 05:00	26°♊30'23	19°51'58	asc. node	643 Feb 23 j 13:23	19°♊38'59	
	642 Mar 29 j 22:48	0°♊			643 Mar 01 j 10:36	0°♊	
retrograde	642 Apr 04 j 05:26	1°♊19'20		evening max el	643 Mar 08 j 01:52	8°♊34'59	18°57'20
evening set	642 Apr 06 j 07:15	1°♊07'51		retrograde	643 Mar 16 j 12:28	12°♊39'51	
	642 Apr 09 j 20:47	30°♊		evening set	643 Mar 18 j 18:29	12°♊23'39	
inferior conj	642 Apr 15 j 02:34	27°♊06'54	0°30'26	inferior conj	643 Mar 26 j 18:50	8°♊07'48	2°07'50
minimum elong	642 Apr 15 j 03:54	27°♊04'51	0°29'57	minimum elong	643 Mar 26 j 22:58	8°♊00'28	2°06'39
desc. node	642 Apr 16 j 21:13	26°♊01'21		min. Earth dist.	643 Mar 29 j 23:04	5°♊53'44	0.57021 AU
min. Earth dist.	642 Apr 17 j 07:06	25°♊46'23	0.55581 AU	desc. node	643 Apr 03 j 18:15	3°♊10'13	
morning rise	642 Apr 23 j 22:14	22°♊36'06		morning rise	643 Apr 04 j 00:23	3°♊03'48	
direct	642 Apr 28 j 01:35	21°♊58'10		direct	643 Apr 09 j 06:26	1°♊58'00	
morning max el	642 May 11 j 22:37	28°♊52'49	24°14'16	morning max el	643 Apr 23 j 13:24	9°♊23'00	25°49'02
	642 May 13 j 01:58	0°♊			643 May 09 j 02:30	0°♊	

morning set	643 May 21 j 06:50	23°♄05'31		morning set	644 May 04 j 16:34	7°♄55'47	
asc. node	643 May 22 j 12:40	25°♄43'46		asc. node	644 May 08 j 09:42	15°♄51'14	
	643 May 24 j 12:13	0°♄					
superior conj	643 May 28 j 06:35	8°♄14'09	0°57'27	superior conj	644 May 11 j 18:23	23°♄12'43	0°34'56
minimum elong	643 May 28 j 04:24	8°♄02'12	0°57'02	minimum elong	644 May 11 j 16:54	23°♄04'33	0°34'38
max. Earth dist.	643 May 29 j 00:42	9°♄53'21	1.32549 AU	max. Earth dist.	644 May 11 j 13:21	22°♄45'02	1.32291 AU
evening rise	643 Jun 04 j 07:37	23°♄21'09			644 May 14 j 20:39	0°♄	
	643 Jun 07 j 14:21	0°♄		evening rise	644 May 18 j 15:59	8°♄10'19	
	643 Jun 25 j 11:11	0°♄			644 May 30 j 01:24	0°♄	
desc. node	643 Jun 30 j 17:33	6°♄42'47		evening max el	644 Jun 16 j 17:49	23°♄50'42	26°20'07
evening max el	643 Jul 05 j 17:15	12°♄01'15	27°09'24	desc. node	644 Jun 16 j 14:33	23°♄42'54	
retrograde	643 Jul 19 j 14:31	19°♄17'13			644 Jun 25 j 14:51	0°♄	
evening set	643 Jul 26 j 16:30	16°♄59'53		retrograde	644 Jun 30 j 17:51	1°♄03'23	
min. Earth dist.	643 Jul 30 j 07:28	14°♄15'00	0.61565 AU		644 Jul 05 j 18:41	30°♄	
inferior conj	643 Aug 02 j 10:15	11°♄28'30	-4°19'10	evening set	644 Jul 07 j 05:31	29°♄19'04	
minimum elong	643 Aug 02 j 14:46	11°♄18'24	4°18'20	min. Earth dist.	644 Jul 11 j 06:46	26°♄42'07	0.59521 AU
morning rise	643 Aug 09 j 14:35	6°♄32'48		inferior conj	644 Jul 14 j 14:43	24°♄07'18	-4°45'49
direct	643 Aug 12 j 01:35	6°♄07'27		minimum elong	644 Jul 14 j 16:49	24°♄03'13	4°45'41
asc. node	643 Aug 18 j 11:52	9°♄06'02		morning rise	644 Jul 22 j 06:11	19°♄34'12	
morning max el	643 Aug 19 j 00:56	9°♄36'49	17°57'34	direct	644 Jul 24 j 17:48	19°♄12'26	
	643 Sep 01 j 09:42	0°♄		morning max el	644 Aug 01 j 10:42	22°♄55'01	18°21'35
morning set	643 Sep 03 j 23:14	4°♄40'31		asc. node	644 Aug 04 j 08:55	26°♄10'58	
					644 Aug 07 j 02:32	0°♄	
superior conj	643 Sep 14 j 09:48	23°♄25'55	1°16'26	morning set	644 Aug 17 j 11:20	18°♄24'27	
minimum elong	643 Sep 14 j 14:29	23°♄46'19	1°15'55		644 Aug 23 j 13:39	0°♄	
	643 Sep 18 j 05:34	0°♄		superior conj	644 Aug 26 j 16:01	5°♄45'24	1°36'34
max. Earth dist.	643 Sep 21 j 21:12	6°♄06'17	1.42432 AU	minimum elong	644 Aug 26 j 19:05	5°♄59'29	1°36'21
desc. node	643 Sep 26 j 16:50	13°♄55'28		max. Earth dist.	644 Sep 03 j 04:14	19°♄06'28	1.40547 AU
evening rise	643 Sep 28 j 09:08	16°♄35'35		evening rise	644 Sep 07 j 17:52	26°♄48'10	
	643 Oct 07 j 02:01	0°♄			644 Sep 09 j 16:45	0°♄	
	643 Oct 29 j 01:57	0°♄		desc. node	644 Sep 12 j 13:51	4°♄37'04	
evening max el	643 Oct 30 j 15:20	1°♄38'54	22°04'26		644 Sep 29 j 18:29	0°♄	
retrograde	643 Nov 08 j 23:41	7°♄12'27		evening max el	644 Oct 12 j 06:05	15°♄10'43	23°23'58
evening set	643 Nov 13 j 09:59	5°♄26'29		retrograde	644 Oct 22 j 17:06	21°♄21'52	
asc. node	643 Nov 14 j 11:05	4°♄30'01		evening set	644 Oct 27 j 16:37	19°♄18'09	
	643 Nov 18 j 03:23	30°♄		asc. node	644 Oct 31 j 08:07	15°♄15'57	
inferior conj	643 Nov 18 j 18:21	29°♄08'19	1°26'19	min. Earth dist.	644 Nov 01 j 15:43	13°♄29'31	0.67692 AU
minimum elong	643 Nov 18 j 16:29	29°♄14'44	1°25'35	inferior conj	644 Nov 02 j 01:30	12°♄56'00	0°35'29
min. Earth dist.	643 Nov 18 j 19:07	29°♄05'38	0.67683 AU	minimum elong	644 Nov 02 j 00:40	12°♄58'51	0°35'08
morning rise	643 Nov 23 j 22:50	22°♄56'23		morning rise	644 Nov 07 j 08:40	6°♄47'40	
direct	643 Nov 28 j 17:39	20°♄56'01		direct	644 Nov 11 j 13:06	5°♄10'04	
morning max el	643 Dec 08 j 10:28	26°♄40'41	22°36'28	morning max el	644 Nov 20 j 02:20	10°♄09'29	21°13'47
	643 Dec 11 j 11:53	0°♄			644 Dec 05 j 09:17	0°♄	
desc. node	643 Dec 23 j 16:03	16°♄01'15		desc. node	644 Dec 09 j 13:04	6°♄06'59	
	644 Jan 02 j 02:21	0°♄		morning set	644 Dec 20 j 19:56	23°♄23'20	
morning set	644 Jan 11 j 08:46	14°♄41'26			644 Dec 24 j 23:46	0°♄	
max. Earth dist.	644 Jan 16 j 07:52	22°♄58'42	1.40366 AU	max. Earth dist.	644 Dec 28 j 10:14	5°♄34'30	1.42346 AU
	644 Jan 20 j 09:17	0°♄					
superior conj	644 Jan 24 j 03:05	6°♄40'28	-1°59'51	superior conj	645 Jan 04 j 16:23	17°♄44'07	-2°02'10
minimum elong	644 Jan 24 j 05:23	6°♄50'51	1°59'46	minimum elong	645 Jan 04 j 14:49	17°♄37'25	2°02'08
evening rise	644 Feb 03 j 01:29	25°♄10'48			645 Jan 11 j 16:29	0°♄	
	644 Feb 05 j 14:54	0°♄		evening rise	645 Jan 16 j 00:38	7°♄48'16	
asc. node	644 Feb 10 j 10:24	8°♄43'47		asc. node	645 Jan 27 j 07:26	27°♄16'23	
evening max el	644 Feb 19 j 07:01	21°♄11'36	18°22'48		645 Jan 29 j 04:48	0°♄	
retrograde	644 Feb 26 j 14:45	24°♄48'51		evening max el	645 Feb 01 j 17:15	4°♄10'47	18°08'10
evening set	644 Feb 29 j 02:16	24°♄25'05		retrograde	645 Feb 08 j 09:52	7°♄36'20	
inferior conj	644 Mar 07 j 08:16	19°♄48'46	3°10'50	evening set	645 Feb 11 j 02:12	7°♄03'34	
minimum elong	644 Mar 07 j 11:51	19°♄41'20	3°10'09	inferior conj	645 Feb 17 j 17:16	2°♄06'08	3°41'43
min. Earth dist.	644 Mar 10 j 18:44	16°♄59'19	0.58971 AU	minimum elong	645 Feb 17 j 18:47	2°♄02'29	3°41'36
morning rise	644 Mar 14 j 18:57	14°♄17'09			645 Feb 19 j 21:43	30°♄	
desc. node	644 Mar 20 j 15:16	12°♄35'12		min. Earth dist.	645 Feb 20 j 21:10	29°♄05'28	0.61083 AU
direct	644 Mar 21 j 00:20	12°♄34'50		morning rise	645 Feb 24 j 09:44	26°♄15'58	
morning max el	644 Apr 04 j 08:28	20°♄16'43	27°02'06	direct	645 Mar 03 j 05:15	23°♄58'21	
	644 Apr 12 j 16:47	0°♄		desc. node	645 Mar 07 j 12:17	24°♄48'23	
	644 Apr 30 j 18:55	0°♄			645 Mar 15 j 11:21	0°♄	
				morning max el	645 Mar 17 j 09:58	1°♄49'35	27°42'09

	645 Apr 06 j 23:01	0°♿		morning max el	646 Feb 27 j 16:45	14°♿02'40	27°44'57
morning set	645 Apr 18 j 22:30	22°♿32'10			646 Mar 12 j 14:32	0°♿	
	645 Apr 22 j 11:48	0°♿			646 Mar 30 j 11:28	0°♿	
max. Earth dist.	645 Apr 25 j 01:02	5°♿30'44	1.32401 AU	morning set	646 Apr 02 j 22:27	6°♿47'13	
asc. node	645 Apr 25 j 06:44	6°♿01'41		max. Earth dist.	646 Apr 08 j 07:43	17°♿56'23	1.32904 AU
superior conj	645 Apr 26 j 05:22	8°♿05'16	0°09'59	superior conj	646 Apr 10 j 13:51	22°♿46'11	-0°16'39
minimum elong	645 Apr 26 j 04:54	8°♿02'45	0°09'53	minimum elong	646 Apr 10 j 14:39	22°♿50'29	0°16'28
behind sun begin	645 Apr 26 j 00:55	7°♿40'56		asc. node	646 Apr 12 j 03:47	26°♿11'12	
behind sun end	645 Apr 26 j 08:54	8°♿24'35			646 Apr 13 j 22:02	0°♿	
evening rise	645 May 03 j 03:01	23°♿04'05		evening rise	646 Apr 17 j 14:50	7°♿56'04	
	645 May 06 j 11:23	0°♿			646 Apr 29 j 05:14	0°♿	
	645 May 24 j 22:23	0°♿		evening max el	646 May 11 j 01:34	15°♿30'21	23°29'52
evening max el	645 May 29 j 11:21	4°♿54'30	25°02'58	desc. node	646 May 21 j 08:36	21°♿53'57	
desc. node	645 Jun 03 j 11:35	8°♿58'36		retrograde	646 May 24 j 16:40	22°♿19'18	
retrograde	645 Jun 12 j 11:15	12°♿01'33		evening set	646 May 28 j 13:14	21°♿46'33	
evening set	645 Jun 17 j 19:18	10°♿56'09		min. Earth dist.	646 Jun 04 j 11:54	18°♿34'21	0.55927 AU
min. Earth dist.	645 Jun 22 j 22:53	8°♿08'54	0.57529 AU	inferior conj	646 Jun 06 j 13:20	17°♿20'38	-4°02'22
inferior conj	645 Jun 26 j 00:02	6°♿06'02	-4°44'35	minimum elong	646 Jun 06 j 06:33	17°♿30'49	4°00'58
minimum elong	645 Jun 25 j 21:36	6°♿10'09	4°44'26	morning rise	646 Jun 15 j 02:37	13°♿24'41	
morning rise	645 Jul 04 j 02:37	1°♿55'01		direct	646 Jun 17 j 19:35	13°♿06'33	
direct	645 Jul 06 j 16:23	1°♿35'39		morning max el	646 Jun 28 j 04:44	17°♿54'42	20°12'14
morning max el	645 Jul 15 j 12:49	5°♿43'55	19°06'24		646 Jul 07 j 10:46	0°♿	
asc. node	645 Jul 22 j 05:57	14°♿10'18		asc. node	646 Jul 09 j 03:00	2°♿51'42	
	645 Jul 31 j 01:15	0°♿		morning set	646 Jul 16 j 13:36	17°♿10'15	
morning set	645 Aug 01 j 09:09	2°♿37'02			646 Jul 22 j 19:58	0°♿	
superior conj	645 Aug 09 j 16:44	19°♿00'31	1°45'39	superior conj	646 Jul 24 j 06:47	2°♿56'12	1°45'46
minimum elong	645 Aug 09 j 17:43	19°♿05'18	1°45'37	minimum elong	646 Jul 24 j 06:03	2°♿52'29	1°45'45
	645 Aug 15 j 13:09	0°♿		max. Earth dist.	646 Jul 29 j 12:35	13°♿14'54	1.36592 AU
max. Earth dist.	645 Aug 16 j 07:33	1°♿23'33	1.38512 AU	evening rise	646 Aug 02 j 10:54	20°♿36'25	
evening rise	645 Aug 20 j 03:13	8°♿10'00			646 Aug 07 j 18:10	0°♿	
desc. node	645 Aug 30 j 10:54	25°♿10'02		desc. node	646 Aug 17 j 07:57	15°♿29'02	
	645 Sep 02 j 14:26	0°♿			646 Aug 27 j 13:18	0°♿	
evening max el	645 Sep 24 j 18:11	28°♿46'07	24°42'50	evening max el	646 Sep 07 j 05:49	12°♿24'05	25°53'42
	645 Sep 26 j 01:05	0°♿		retrograde	646 Sep 19 j 15:52	19°♿29'10	
retrograde	645 Oct 06 j 06:47	5°♿29'19		evening set	646 Sep 25 j 19:59	16°♿54'04	
evening set	645 Oct 11 j 20:34	3°♿08'26		min. Earth dist.	646 Sep 30 j 02:41	12°♿15'03	0.66723 AU
	645 Oct 14 j 19:43	30°♿		inferior conj	646 Oct 01 j 10:01	10°♿36'10	-1°15'18
min. Earth dist.	645 Oct 16 j 11:02	27°♿53'43	0.67372 AU	minimum elong	646 Oct 01 j 11:57	10°♿30'04	1°14'30
inferior conj	645 Oct 17 j 07:20	26°♿46'17	-0°18'51	asc. node	646 Oct 05 j 02:13	6°♿21'59	
minimum elong	645 Oct 17 j 07:48	26°♿44'44	0°18'39	morning rise	646 Oct 07 j 04:12	4°♿42'40	
asc. node	645 Oct 18 j 05:09	25°♿34'19		direct	646 Oct 10 j 09:18	3°♿43'16	
morning rise	645 Oct 22 j 19:07	20°♿44'01		morning max el	646 Oct 17 j 08:38	7°♿38'01	19°04'46
direct	645 Oct 26 j 10:50	19°♿27'10			646 Nov 02 j 09:02	0°♿	
morning max el	645 Nov 03 j 01:50	23°♿49'24	20°02'07	morning set	646 Nov 08 j 22:47	10°♿15'38	
	645 Nov 08 j 07:48	0°♿		desc. node	646 Nov 13 j 07:11	17°♿04'13	
desc. node	645 Nov 26 j 10:07	26°♿29'45			646 Nov 21 j 13:07	0°♿	
	645 Nov 28 j 16:48	0°♿		max. Earth dist.	646 Nov 23 j 11:29	3°♿02'25	1.44843 AU
morning set	645 Nov 29 j 16:20	1°♿30'48		superior conj	646 Nov 25 j 14:09	6°♿22'18	-1°15'30
max. Earth dist.	645 Dec 10 j 19:59	19°♿00'50	1.43901 AU	minimum elong	646 Nov 25 j 05:49	5°♿49'23	1°14'35
superior conj	645 Dec 16 j 03:25	27°♿34'59	-1°48'08		646 Dec 10 j 07:01	0°♿	
minimum elong	645 Dec 15 j 20:49	27°♿08'05	1°47'40	evening rise	646 Dec 10 j 13:38	0°♿27'05	
	645 Dec 17 j 14:50	0°♿			646 Dec 29 j 23:25	0°♿	
evening rise	645 Dec 29 j 06:04	19°♿36'07		evening max el	646 Dec 30 j 17:36	0°♿48'17	18°36'00
	646 Jan 04 j 07:31	0°♿		asc. node	647 Jan 01 j 01:31	2°♿03'34	
asc. node	646 Jan 14 j 04:29	15°♿07'08		retrograde	647 Jan 06 j 08:31	4°♿28'39	
evening max el	646 Jan 16 j 05:41	17°♿25'09	18°12'51	evening set	647 Jan 09 j 10:51	3°♿34'48	
retrograde	646 Jan 22 j 17:13	20°♿52'26			647 Jan 13 j 12:51	30°♿	
evening set	646 Jan 25 j 14:13	20°♿09'41		inferior conj	647 Jan 15 j 06:27	27°♿59'11	3°35'43
inferior conj	646 Jan 31 j 17:59	14°♿52'18	3°47'45	minimum elong	647 Jan 15 j 04:31	28°♿04'56	3°35'28
minimum elong	646 Jan 31 j 17:28	14°♿53'44	3°47'44	min. Earth dist.	647 Jan 17 j 05:42	25°♿38'34	0.64774 AU
min. Earth dist.	646 Feb 03 j 08:38	12°♿03'24	0.63077 AU	morning rise	647 Jan 20 j 21:44	21°♿51'40	
morning rise	646 Feb 06 j 19:48	8°♿51'08		direct	647 Jan 27 j 16:45	18°♿59'27	
direct	646 Feb 13 j 19:20	6°♿08'45		desc. node	647 Feb 09 j 06:21	25°♿58'07	
desc. node	646 Feb 22 j 09:18	9°♿28'05		morning max el	647 Feb 10 j 02:01	26°♿46'29	27°12'56

	647 Feb 13 j 02:42	0°♊		direct	648 Jan 10 j 20:15	2°♊22'07	
	647 Mar 06 j 05:10	0°♋		morning max el	648 Jan 23 j 11:29	9°♋49'56	26°12'56
morning set	647 Mar 17 j 13:29	20°♋31'14		desc. node	648 Jan 27 j 03:25	13°♋47'33	
max. Earth dist.	647 Mar 22 j 05:28	29°♋50'22	1.33838 AU		648 Feb 08 j 10:33	0°♌	
	647 Mar 22 j 07:21	0°♍			648 Feb 26 j 17:37	0°♋	
				morning set	648 Feb 28 j 15:41	3°♋32'34	
superior conj	647 Mar 25 j 17:51	7°♍08'55	-0°43'53	max. Earth dist.	648 Mar 03 j 15:52	11°♋11'24	1.35235 AU
minimum elong	647 Mar 25 j 20:00	7°♍20'13	0°43'27				
asc. node	647 Mar 30 j 00:51	16°♍15'24		superior conj	648 Mar 08 j 15:01	21°♋06'19	-1°10'25
evening rise	647 Apr 02 j 01:37	22°♍39'49		minimum elong	648 Mar 08 j 18:22	21°♋23'23	1°09'52
	647 Apr 05 j 15:39	0°♎			648 Mar 12 j 22:31	0°♍	
evening max el	647 Apr 22 j 19:27	26°♎07'46	21°55'38	asc. node	648 Mar 15 j 21:54	6°♍09'50	
	647 Apr 27 j 17:38	0°♏		evening rise	648 Mar 16 j 09:25	7°♍09'06	
retrograde	647 May 05 j 09:57	2°♏18'27			648 Mar 28 j 23:55	0°♎	
evening set	647 May 08 j 01:27	2°♏02'51		evening max el	648 Apr 03 j 22:47	7°♎11'52	20°32'09
desc. node	647 May 08 j 05:35	2°♏00'47		retrograde	648 Apr 14 j 22:52	12°♎30'44	
	647 May 13 j 17:19	30°♎♎		evening set	648 Apr 17 j 01:47	12°♎19'43	
inferior conj	647 May 17 j 11:20	27°♎58'27	-2°34'12	desc. node	648 Apr 24 j 02:37	9°♎34'51	
minimum elong	647 May 17 j 04:39	28°♎07'50	2°32'05	inferior conj	648 Apr 26 j 05:50	8°♎22'08	-0°36'58
min. Earth dist.	647 May 17 j 00:25	28°♎13'46	0.55050 AU	minimum elong	648 Apr 26 j 04:06	8°♎24'39	0°36'20
morning rise	647 May 26 j 09:06	24°♎03'23		min. Earth dist.	648 Apr 27 j 13:25	7°♎36'29	0.55112 AU
direct	647 May 29 j 08:54	23°♎43'29		morning rise	648 May 05 j 05:21	4°♎09'23	
morning max el	647 Jun 10 j 09:22	29°♎22'10	21°37'22	direct	648 May 08 j 20:01	3°♎41'13	
	647 Jun 11 j 01:14	0°♏		morning max el	648 May 22 j 04:27	10°♎10'23	23°15'59
asc. node	647 Jun 26 j 00:06	22°♏05'05			648 Jun 05 j 17:35	0°♏	
	647 Jun 29 j 23:34	0°♐		asc. node	648 Jun 11 j 21:10	11°♏41'18	
morning set	647 Jun 30 j 22:28	1°♐58'09		morning set	648 Jun 14 j 09:42	16°♏53'49	
					648 Jun 20 j 12:42	0°♑	
superior conj	647 Jul 08 j 06:13	17°♑20'58	1°38'47				
minimum elong	647 Jul 08 j 04:20	17°♑11'11	1°38'38	superior conj	648 Jun 21 j 11:52	2°♑04'16	1°26'09
max. Earth dist.	647 Jul 12 j 01:19	25°♑09'00	1.34967 AU	minimum elong	648 Jun 21 j 09:28	1°♑51'22	1°25'51
	647 Jul 14 j 11:45	0°♒		max. Earth dist.	648 Jun 23 j 23:37	7°♑21'46	1.33717 AU
evening rise	647 Jul 16 j 12:17	3°♒55'18		evening rise	648 Jun 29 j 02:36	17°♑52'25	
	647 Jul 31 j 14:05	0°♓			648 Jul 05 j 11:37	0°♒	
desc. node	647 Aug 04 j 04:58	5°♓27'37		desc. node	648 Jul 21 j 01:59	24°♒56'07	
evening max el	647 Aug 20 j 18:01	25°♓59'36	26°48'39		648 Jul 24 j 21:37	0°♓	
	647 Aug 25 j 11:55	0°♔		evening max el	648 Aug 02 j 05:44	9°♓20'46	27°20'23
retrograde	647 Sep 02 j 19:40	3°♔15'23		retrograde	648 Aug 15 j 17:35	16°♓39'25	
evening set	647 Sep 09 j 12:42	0°♔31'40		evening set	648 Aug 22 j 19:58	13°♓55'52	
	647 Sep 10 j 03:29	30°♔♓		min. Earth dist.	648 Aug 26 j 13:16	10°♓29'39	0.64381 AU
min. Earth dist.	647 Sep 13 j 12:13	26°♓29'37	0.65732 AU	inferior conj	648 Aug 28 j 21:34	7°♓58'56	-3°06'45
inferior conj	647 Sep 15 j 07:33	24°♓22'19	-2°12'04	minimum elong	648 Aug 29 j 02:08	7°♓46'40	3°05'17
minimum elong	647 Sep 15 j 10:57	24°♓12'19	2°10'46	morning rise	648 Sep 04 j 09:12	2°♓32'45	
morning rise	647 Sep 21 j 09:46	18°♓40'43		direct	648 Sep 07 j 00:18	1°♓57'16	
asc. node	647 Sep 21 j 23:16	18°♓24'39		asc. node	648 Sep 07 j 20:20	2°♓00'53	
direct	647 Sep 24 j 06:39	17°♓55'01		morning max el	648 Sep 13 j 12:29	5°♓24'13	17°59'11
morning max el	647 Sep 30 j 21:02	21°♓31'36	18°23'28		648 Sep 29 j 18:59	0°♔	
	647 Oct 07 j 11:52	0°♕		morning set	648 Sep 30 j 21:18	1°♔51'41	
morning set	647 Oct 20 j 08:01	20°♕22'49					
	647 Oct 26 j 07:13	0°♖		superior conj	648 Oct 14 j 03:33	23°♕52'35	0°19'18
desc. node	647 Oct 31 j 04:15	7°♖46'33		minimum elong	648 Oct 14 j 05:45	24°♕01'31	0°18'58
				desc. node	648 Oct 17 j 01:18	28°♕32'46	
superior conj	647 Nov 04 j 14:57	14°♖48'09	-0°29'07		648 Oct 17 j 23:10	0°♖	
minimum elong	647 Nov 04 j 11:08	14°♖33'08	0°28'36	max. Earth dist.	648 Oct 19 j 00:58	1°♖42'34	1.44543 AU
max. Earth dist.	647 Nov 06 j 06:18	17°♖22'59	1.45064 AU	evening rise	648 Oct 30 j 10:34	19°♖30'44	
	647 Nov 14 j 07:21	0°♗			648 Nov 06 j 06:59	0°♗	
evening rise	647 Nov 20 j 21:38	10°♗20'55		greatest brilliancy	648 Nov 13 j 13:14	10°♗53'54	-0.6m
greatest brilliancy	647 Dec 01 j 09:03	26°♗44'53	-0.8m	evening max el	648 Nov 26 j 07:03	27°♗44'55	20°12'16
	647 Dec 03 j 11:59	0°♘			648 Nov 28 j 17:40	0°♘	
evening max el	647 Dec 14 j 02:42	14°♘15'57	19°16'23	retrograde	648 Dec 04 j 02:04	2°♘19'35	
asc. node	647 Dec 18 j 22:33	17°♘51'36		asc. node	648 Dec 04 j 19:34	2°♘16'35	
retrograde	647 Dec 21 j 04:21	18°♘19'16		evening set	648 Dec 07 j 19:19	0°♘59'07	
evening set	647 Dec 24 j 13:19	17°♘12'54			648 Dec 08 j 23:45	30°♘♗	
inferior conj	647 Dec 30 j 03:18	11°♘21'19	3°10'37	inferior conj	648 Dec 13 j 05:46	24°♘54'22	2°35'47
minimum elong	647 Dec 30 j 00:40	11°♘29'44	3°10'02	minimum elong	648 Dec 13 j 03:04	25°♘03'29	2°34'57
min. Earth dist.	647 Dec 31 j 11:36	9°♘37'50	0.66084 AU	min. Earth dist.	648 Dec 14 j 00:39	23°♘50'51	0.66990 AU
morning rise	648 Jan 04 j 11:48	5°♘10'04		morning rise	648 Dec 18 j 10:38	18°♘41'17	

direct	648 Dec 24 j 05:08	16°♄07'50		desc. node	649 Dec 30 j 21:30	21°♄58'14	
morning max el	649 Jan 04 j 20:09	23°♄03'23	24°54'17		650 Jan 05 j 12:39	0°♄	
	649 Jan 10 j 23:45	0°♄		morning set	650 Jan 22 j 07:55	26°♄27'02	
desc. node	649 Jan 13 j 00:29	2°♄33'13			650 Jan 24 j 09:58	0°♄	
	649 Jan 31 j 19:00	0°♄		max. Earth dist.	650 Jan 26 j 10:52	3°♄31'57	1.39137 AU
morning set	649 Feb 09 j 23:57	15°♄37'04					
max. Earth dist.	649 Feb 13 j 15:53	22°♄15'17	1.37050 AU	superior conj	650 Feb 02 j 23:44	17°♄09'13	-1°52'58
	649 Feb 17 j 18:35	0°♄		minimum elong	650 Feb 03 j 03:11	17°♄25'22	1°52'43
					650 Feb 09 j 17:25	0°♄	
superior conj	649 Feb 20 j 02:20	4°♄30'16	-1°34'20	evening rise	650 Feb 12 j 06:42	4°♄56'52	
minimum elong	649 Feb 20 j 06:20	4°♄49'51	1°33'51	asc. node	650 Feb 17 j 15:57	15°♄09'35	
evening rise	649 Feb 28 j 12:03	21°♄17'39			650 Feb 27 j 09:46	0°♄	
asc. node	649 Mar 02 j 18:55	25°♄50'01		evening max el	650 Feb 28 j 14:13	1°♄13'31	18°40'10
	649 Mar 04 j 22:38	0°♄		retrograde	650 Mar 08 j 12:12	5°♄04'59	
evening max el	649 Mar 17 j 13:32	18°♄54'40	19°26'13	evening set	650 Mar 10 j 20:23	4°♄45'58	
retrograde	649 Mar 26 j 20:53	23°♄23'30		inferior conj	650 Mar 18 j 12:37	0°♄21'46	2°38'52
evening set	649 Mar 28 j 23:58	23°♄10'27		minimum elong	650 Mar 18 j 16:50	0°♄13'46	2°37'48
inferior conj	649 Apr 06 j 11:24	19°♄03'49	1°15'36		650 Mar 19 j 00:03	30°♄	
minimum elong	649 Apr 06 j 14:23	18°♄58'56	1°14'37	min. Earth dist.	650 Mar 21 j 21:27	27°♄49'42	0.57804 AU
min. Earth dist.	649 Apr 09 j 03:58	17°♄19'17	0.56104 AU	morning rise	650 Mar 26 j 10:18	25°♄04'29	
desc. node	649 Apr 10 j 23:38	16°♄13'27		desc. node	650 Mar 28 j 20:40	24°♄10'28	
morning rise	649 Apr 15 j 02:04	14°♄19'00		direct	650 Apr 01 j 02:54	23°♄43'45	
direct	649 Apr 19 j 16:23	13°♄31'03			650 Apr 14 j 02:13	0°♄	
morning max el	649 May 03 j 19:15	20°♄40'03	24°56'29	morning max el	650 Apr 15 j 11:36	1°♄18'00	26°23'37
	649 May 11 j 19:35	0°♄			650 May 05 j 19:39	0°♄	
	649 May 29 j 00:17	0°♄		morning set	650 May 14 j 08:36	16°♄46'11	
morning set	649 May 29 j 21:38	1°♄51'52		asc. node	650 May 16 j 15:15	21°♄36'59	
asc. node	649 May 29 j 18:13	1°♄33'56			650 May 20 j 11:32	0°♄	
superior conj	649 Jun 05 j 21:25	16°♄58'42	1°09'01	superior conj	650 May 21 j 08:52	1°♄57'09	0°48'14
minimum elong	649 Jun 05 j 19:01	16°♄45'38	1°08'37	minimum elong	650 May 21 j 06:56	1°♄46'32	0°47'52
max. Earth dist.	649 Jun 07 j 05:54	19°♄55'12	1.32862 AU	max. Earth dist.	650 May 21 j 17:03	2°♄42'02	1.32387 AU
	649 Jun 11 j 23:38	0°♄		evening rise	650 May 28 j 07:59	16°♄58'35	
evening rise	649 Jun 13 j 02:10	2°♄16'43			650 Jun 03 j 21:07	0°♄	
	649 Jun 28 j 08:16	0°♄			650 Jun 23 j 12:49	0°♄	
desc. node	649 Jul 07 j 22:58	13°♄41'56		desc. node	650 Jun 24 j 19:59	1°♄27'16	
evening max el	649 Jul 15 j 14:52	22°♄14'22	27°22'45	evening max el	650 Jun 27 j 19:03	4°♄28'49	26°52'20
retrograde	649 Jul 29 j 09:19	29°♄32'14		retrograde	650 Jul 11 j 18:00	11°♄44'25	
evening set	649 Aug 05 j 14:19	27°♄01'00		evening set	650 Jul 18 j 15:25	9°♄39'34	
min. Earth dist.	649 Aug 09 j 04:12	24°♄04'38	0.62676 AU	min. Earth dist.	650 Jul 22 j 08:57	7°♄00'21	0.60698 AU
inferior conj	649 Aug 12 j 01:12	21°♄19'34	-3°55'43	inferior conj	650 Jul 25 j 15:07	4°♄16'02	-4°33'06
minimum elong	649 Aug 12 j 06:09	21°♄07'40	3°54'32	minimum elong	650 Jul 25 j 18:54	4°♄08'03	4°32'36
morning rise	649 Aug 18 j 23:18	16°♄12'11			650 Jul 31 j 17:21	30°♄	
direct	649 Aug 21 j 11:04	15°♄43'55		morning rise	650 Aug 02 j 00:13	29°♄30'06	
asc. node	649 Aug 25 j 17:24	17°♄08'41		direct	650 Aug 04 j 11:06	29°♄06'37	
morning max el	649 Aug 28 j 04:08	19°♄09'43	17°52'48		650 Aug 08 j 01:43	0°♄	
	649 Sep 05 j 02:23	0°♄		morning max el	650 Aug 11 j 16:58	2°♄40'26	18°05'23
morning set	649 Sep 13 j 09:16	14°♄25'28		asc. node	650 Aug 12 j 14:27	3°♄35'11	
	649 Sep 22 j 06:11	0°♄		morning set	650 Aug 27 j 14:02	27°♄47'40	
					650 Aug 28 j 18:25	0°♄	
superior conj	649 Sep 24 j 17:46	4°♄13'45	0°59'08				
minimum elong	649 Sep 24 j 22:34	4°♄33'59	0°58'32	superior conj	650 Sep 06 j 10:44	15°♄53'56	1°26'26
max. Earth dist.	649 Oct 01 j 16:02	15°♄41'24	1.43355 AU	minimum elong	650 Sep 06 j 14:53	16°♄12'23	1°26'03
desc. node	649 Oct 03 j 22:18	19°♄19'48		max. Earth dist.	650 Sep 14 j 01:37	29°♄04'19	1.41657 AU
evening rise	649 Oct 09 j 18:15	28°♄31'25			650 Sep 14 j 14:56	0°♄	
	649 Oct 10 j 17:06	0°♄		evening rise	650 Sep 19 j 14:23	8°♄08'53	
	649 Oct 31 j 02:05	0°♄		desc. node	650 Sep 20 j 19:19	10°♄04'38	
evening max el	649 Nov 09 j 05:36	11°♄13'43	21°20'48		650 Oct 03 j 21:02	0°♄	
retrograde	649 Nov 17 j 23:24	16°♄25'35		evening max el	650 Oct 22 j 22:50	24°♄44'26	22°37'54
asc. node	649 Nov 21 j 16:37	15°♄08'24			650 Oct 29 j 23:50	0°♄	
evening set	649 Nov 22 j 02:53	14°♄49'20		retrograde	650 Nov 01 j 18:44	0°♄34'56	
inferior conj	649 Nov 27 j 11:33	8°♄34'51	1°53'26		650 Nov 04 j 09:28	30°♄	
minimum elong	649 Nov 27 j 09:16	8°♄42'44	1°52'36	evening set	650 Nov 06 j 10:21	28°♄41'38	
min. Earth dist.	649 Nov 27 j 18:35	8°♄10'33	0.67526 AU	asc. node	650 Nov 08 j 13:39	26°♄33'17	
morning rise	649 Dec 02 j 15:29	2°♄21'43		inferior conj	650 Nov 11 j 18:45	22°♄21'06	1°05'19
direct	649 Dec 07 j 18:48	0°♄08'37		minimum elong	650 Nov 11 j 17:17	22°♄26'09	1°04'43
morning max el	649 Dec 18 j 05:04	6°♄21'06	23°26'51	min. Earth dist.	650 Nov 11 j 15:01	22°♄34'02	0.67723 AU

morning rise	650 Nov 17 j 00:07	16°♍10'09		transit end	651 Oct 27 j 02:58	6°♍05'43	
direct	650 Nov 21 j 12:36	14°♍19'34		morning rise	651 Nov 01 j 10:28	0°♍04'09	
morning max el	650 Nov 30 j 17:21	19°♍44'53	22°00'10		651 Nov 01 j 12:41	30°♍29	
	650 Dec 09 j 07:03	0°♍		direct	651 Nov 05 j 09:20	28°♍35'29	
desc. node	650 Dec 17 j 18:32	11°♍51'50			651 Nov 09 j 13:38	0°♍	
	650 Dec 29 j 18:03	0°♍		morning max el	651 Nov 13 j 12:13	3°♍17'52	20°41'39
morning set	651 Jan 02 j 10:50	5°♍52'31			651 Dec 03 j 06:12	0°♍	
max. Earth dist.	651 Jan 08 j 08:35	15°♍33'12	1.41246 AU	desc. node	651 Dec 04 j 15:35	2°♍05'37	
				morning set	651 Dec 12 j 13:03	14°♍11'25	
superior conj	651 Jan 16 j 02:20	28°♍51'40	-2°02'33	max. Earth dist.	651 Dec 21 j 13:59	28°♍31'17	1.43080 AU
minimum elong	651 Jan 16 j 03:17	28°♍55'49	2°02'32		651 Dec 22 j 11:52	0°♍	
	651 Jan 16 j 17:46	0°♍					
evening rise	651 Jan 26 j 14:05	17°♍59'12		superior conj	651 Dec 28 j 04:53	9°♍25'24	-1°58'27
	651 Feb 02 j 04:10	0°♍		minimum elong	651 Dec 28 j 01:08	9°♍09'44	1°58'18
asc. node	651 Feb 04 j 12:58	4°♍01'47		evening rise	652 Jan 09 j 06:13	0°♍16'22	
evening max el	651 Feb 11 j 21:58	14°♍01'02	18°14'11		652 Jan 09 j 02:31	0°♍	
retrograde	651 Feb 18 j 21:55	17°♍31'14		asc. node	652 Jan 22 j 10:00	22°♍18'02	
evening set	651 Feb 21 j 11:32	17°♍03'50		evening max el	652 Jan 26 j 09:34	27°♍08'05	18°07'51
inferior conj	651 Feb 28 j 10:46	12°♍18'50	3°27'26		652 Jan 30 j 09:12	0°♍	
minimum elong	651 Feb 28 j 13:33	12°♍12'41	3°27'01	retrograde	652 Feb 01 j 22:41	0°♍32'26	
min. Earth dist.	651 Mar 03 j 19:50	9°♍21'14	0.59874 AU	evening set	652 Feb 04 j 17:07	29°♍55'23	
morning rise	651 Mar 07 j 13:22	6°♍38'11			652 Feb 04 j 12:46	30°♍	
direct	651 Mar 14 j 02:14	4°♍39'38		inferior conj	652 Feb 11 j 02:57	24°♍49'19	3°46'49
desc. node	651 Mar 15 j 17:42	4°♍46'54		minimum elong	652 Feb 11 j 03:33	24°♍47'47	3°46'48
morning max el	651 Mar 28 j 09:15	12°♍26'51	27°23'27	min. Earth dist.	652 Feb 14 j 01:45	21°♍51'19	0.61968 AU
	651 Apr 11 j 05:40	0°♍		morning rise	652 Feb 17 j 12:44	18°♍54'05	
	651 Apr 27 j 23:21	0°♍		direct	652 Feb 24 j 11:21	16°♍24'12	
morning set	651 Apr 28 j 16:56	1°♍30'52		desc. node	652 Mar 01 j 14:45	18°♍06'47	
asc. node	651 May 03 j 12:17	11°♍45'58		morning max el	652 Mar 09 j 13:02	24°♍16'43	27°47'49
max. Earth dist.	651 May 05 j 05:32	15°♍31'26	1.32288 AU		652 Mar 14 j 17:37	0°♍	
					652 Apr 03 j 13:00	0°♍	
superior conj	651 May 05 j 20:31	16°♍53'41	0°24'36	morning set	652 Apr 11 j 20:39	15°♍59'21	
minimum elong	651 May 05 j 19:26	16°♍47'44	0°24'22	max. Earth dist.	652 Apr 17 j 15:38	28°♍10'39	1.32567 AU
	651 May 11 j 20:57	0°♍			652 Apr 18 j 11:50	0°♍	
evening rise	651 May 12 j 17:43	1°♍50'13					
	651 May 28 j 00:20	0°♍		superior conj	652 Apr 19 j 06:42	1°♍42'30	-0°01'10
evening max el	651 Jun 09 j 16:34	15°♍57'59	25°50'15	minimum elong	652 Apr 19 j 06:46	1°♍42'48	0°01'09
desc. node	651 Jun 11 j 17:00	17°♍46'53		behind sun begin	652 Apr 19 j 01:39	1°♍14'58	
retrograde	651 Jun 23 j 17:35	23°♍09'12		behind sun end	652 Apr 19 j 11:53	2°♍10'39	
evening set	651 Jun 29 j 18:41	21°♍41'40		asc. node	652 Apr 19 j 09:20	1°♍56'48	
min. Earth dist.	651 Jul 04 j 05:05	19°♍02'07	0.58639 AU	evening rise	652 Apr 26 j 05:21	16°♍44'40	
inferior conj	651 Jul 07 j 11:46	16°♍38'36	-4°49'36		652 May 02 j 19:21	0°♍	
minimum elong	651 Jul 07 j 12:08	16°♍37'55	4°49'36	evening max el	652 May 21 j 08:16	26°♍48'03	24°24'31
morning rise	651 Jul 15 j 07:56	12°♍15'01			652 May 25 j 02:48	0°♍	
direct	651 Jul 17 j 20:10	11°♍54'29		desc. node	652 May 28 j 14:01	2°♍08'04	
morning max el	651 Jul 25 j 23:48	15°♍46'54	18°38'06	retrograde	652 Jun 04 j 05:41	3°♍48'41	
asc. node	651 Jul 30 j 11:30	21°♍04'41		evening set	652 Jun 08 j 22:59	2°♍58'51	
	651 Aug 05 j 00:47	0°♍			652 Jun 14 j 21:07	30°♍	
morning set	651 Aug 11 j 06:43	11°♍44'39		min. Earth dist.	652 Jun 14 j 19:28	0°♍02'34	0.56780 AU
				inferior conj	652 Jun 17 j 12:32	28°♍19'17	-4°32'24
superior conj	651 Aug 20 j 01:28	28°♍38'30	1°41'38	minimum elong	652 Jun 17 j 07:58	28°♍26'34	4°31'49
minimum elong	651 Aug 20 j 03:38	28°♍48'44	1°41'32	morning rise	652 Jun 25 j 19:42	24°♍15'39	
	651 Aug 20 j 18:53	0°♍		direct	652 Jun 28 j 10:51	23°♍56'51	
max. Earth dist.	651 Aug 27 j 06:22	11°♍44'07	1.39678 AU	morning max el	652 Jul 07 j 21:47	28°♍20'25	19°31'51
evening rise	651 Aug 31 j 09:33	18°♍50'46			652 Jul 09 j 13:14	0°♍	
	651 Sep 07 j 05:27	0°♍		asc. node	652 Jul 16 j 08:35	9°♍23'32	
desc. node	651 Sep 07 j 16:21	0°♍43'04		morning set	652 Jul 25 j 07:43	26°♍07'16	
	651 Sep 28 j 04:52	0°♍			652 Jul 27 j 06:00	0°♍	
evening max el	651 Oct 05 j 12:18	8°♍18'14	23°58'05				
retrograde	651 Oct 16 j 10:38	14°♍43'52		superior conj	652 Aug 02 j 08:25	12°♍12'24	1°46'41
evening set	651 Oct 21 j 16:02	12°♍32'57		minimum elong	652 Aug 02 j 08:37	12°♍13'21	1°46'40
asc. node	651 Oct 26 j 10:42	7°♍00'53		max. Earth dist.	652 Aug 08 j 10:04	23°♍48'55	1.37671 AU
min. Earth dist.	651 Oct 26 j 11:27	6°♍58'21	0.67596 AU		652 Aug 11 j 19:39	0°♍	
inferior conj	651 Oct 27 j 01:35	6°♍10'26	0°12'50	evening rise	652 Aug 12 j 04:56	0°♍41'22	
minimum elong	651 Oct 27 j 01:16	6°♍11'29	0°12'42	desc. node	652 Aug 24 j 13:23	21°♍10'45	
transit middle	651 Oct 27 j 01:16	6°♍11'29	0°12'42		652 Aug 30 j 11:01	0°♍	
transit begin	651 Oct 26 j 23:34	6°♍17'16		evening max el	652 Sep 17 j 00:11	21°♍55'31	25°14'25

retrograde	652 Sep 28 j 22:16	28° <u>Ω</u> 48'31		evening max el	653 Aug 30 j 11:54	5° <u>Ω</u> 32'33	26°19'25
evening set	652 Oct 04 j 18:17	26° <u>Ω</u> 21'11		retrograde	653 Sep 12 j 05:04	12° <u>Ω</u> 43'20	
min. Earth dist.	652 Oct 09 j 05:26	21° <u>Ω</u> 21'32	0.67143 AU	evening set	653 Sep 18 j 15:08	10° <u>Ω</u> 03'23	
inferior conj	652 Oct 10 j 06:17	20° <u>Ω</u> 00'35	-0°42'37	min. Earth dist.	653 Sep 22 j 18:37	5° <u>Ω</u> 40'22	0.66346 AU
minimum elong	652 Oct 10 j 07:22	19° <u>Ω</u> 57'05	0°42'09	inferior conj	653 Sep 24 j 07:01	3° <u>Ω</u> 48'45	-1°39'29
asc. node	652 Oct 12 j 07:46	17° <u>Ω</u> 24'28		minimum elong	653 Sep 24 j 09:35	3° <u>Ω</u> 40'52	1°38'26
morning rise	652 Oct 15 j 20:36	14° <u>Ω</u> 01'46			653 Sep 27 j 15:37	30° <u>℞</u> <u>℥</u>	
direct	652 Oct 19 j 07:38	12° <u>Ω</u> 52'38		asc. node	653 Sep 29 j 04:50	28° <u>℥</u> 39'22	
morning max el	652 Oct 26 j 14:55	17° <u>Ω</u> 01'28	19°35'52	morning rise	653 Sep 30 j 04:28	28° <u>℥</u> 00'14	
	652 Nov 05 j 16:12	0° <u>℥</u>		direct	653 Oct 03 j 05:46	27° <u>℥</u> 07'10	
greatest brilliancy	652 Nov 09 j 05:09	5° <u>℥</u> 14'39	-0.7m		653 Oct 09 j 02:26	0° <u>Ω</u>	
morning set	652 Nov 20 j 10:46	22° <u>℥</u> 26'37		morning max el	653 Oct 10 j 00:28	0° <u>Ω</u> 52'52	18°45'15
desc. node	652 Nov 20 j 12:39	22° <u>℥</u> 33'51			653 Oct 30 j 01:20	0° <u>℥</u>	
	652 Nov 25 j 07:31	0° <u>♊</u>		morning set	653 Oct 31 j 03:35	1° <u>℥</u> 44'04	
max. Earth dist.	652 Dec 03 j 03:06	12° <u>♊</u> 16'58	1.44392 AU	desc. node	653 Nov 07 j 09:42	13° <u>℥</u> 12'04	
superior conj	652 Dec 07 j 04:43	18° <u>♊</u> 46'21	-1°36'30	superior conj	653 Nov 16 j 08:40	27° <u>℥</u> 17'06	-0°56'54
minimum elong	652 Dec 06 j 20:39	18° <u>♊</u> 13'58	1°35'47	minimum elong	653 Nov 16 j 01:37	26° <u>℥</u> 49'23	0°56'02
	652 Dec 14 j 02:30	0° <u>♋</u>		max. Earth dist.	653 Nov 15 j 20:40	26° <u>℥</u> 29'54	1.45022 AU
evening rise	652 Dec 21 j 02:49	11° <u>♋</u> 40'51			653 Nov 18 j 02:06	0° <u>♊</u>	
	653 Jan 01 j 03:52	0° <u>♌</u>		evening rise	653 Dec 02 j 00:22	22° <u>♊</u> 07'30	
asc. node	653 Jan 08 j 07:03	9° <u>♌</u> 47'24			653 Dec 06 j 21:57	0° <u>♋</u>	
evening max el	653 Jan 08 j 22:06	10° <u>♌</u> 26'55	18°20'26	evening max el	653 Dec 23 j 09:02	23° <u>♋</u> 52'19	18°51'06
retrograde	653 Jan 15 j 09:59	13° <u>♌</u> 58'22		asc. node	653 Dec 26 j 04:06	26° <u>♋</u> 16'53	
evening set	653 Jan 18 j 09:13	13° <u>♌</u> 10'53		retrograde	653 Dec 30 j 03:46	27° <u>♋</u> 41'43	
inferior conj	653 Jan 24 j 09:08	7° <u>♌</u> 45'12	3°44'29	evening set	654 Jan 02 j 08:40	26° <u>♋</u> 42'46	
minimum elong	653 Jan 24 j 07:55	7° <u>♌</u> 48'36	3°44'25	inferior conj	654 Jan 08 j 01:34	20° <u>♋</u> 59'49	3°26'28
min. Earth dist.	653 Jan 26 j 17:10	5° <u>♌</u> 07'07	0.63845 AU	minimum elong	654 Jan 07 j 23:16	21° <u>♋</u> 06'56	3°26'04
morning rise	653 Jan 30 j 06:00	1° <u>♌</u> 40'59		min. Earth dist.	654 Jan 09 j 18:15	18° <u>♋</u> 54'22	0.65374 AU
	653 Feb 01 j 18:38	30° <u>℞</u> <u>♋</u>		morning rise	654 Jan 13 j 13:32	14° <u>♋</u> 50'12	
direct	653 Feb 06 j 04:26	28° <u>♋</u> 52'57		direct	654 Jan 20 j 04:26	11° <u>♋</u> 58'27	
	653 Feb 10 j 22:02	0° <u>♌</u>		morning max el	654 Feb 02 j 07:10	19° <u>♋</u> 39'26	26°50'25
desc. node	653 Feb 16 j 11:48	3° <u>♌</u> 37'52		desc. node	654 Feb 03 j 08:51	20° <u>♋</u> 45'21	
morning max el	653 Feb 19 j 21:17	6° <u>♌</u> 44'29	27°35'19		654 Feb 11 j 03:52	0° <u>♌</u>	
	653 Mar 09 j 17:08	0° <u>♍</u>			654 Mar 02 j 17:59	0° <u>♍</u>	
morning set	653 Mar 26 j 17:12	0° <u>♎</u> 02'24		morning set	654 Mar 10 j 03:21	13° <u>♍</u> 30'18	
	653 Mar 26 j 16:43	0° <u>♎</u>		max. Earth dist.	654 Mar 14 j 12:32	22° <u>♍</u> 05'52	1.34379 AU
max. Earth dist.	653 Mar 31 j 19:14	10° <u>♎</u> 25'17	1.33252 AU		654 Mar 18 j 09:19	0° <u>♎</u>	
superior conj	653 Apr 03 j 13:32	16° <u>♎</u> 16'21	-0°28'10	superior conj	654 Mar 18 j 14:56	0° <u>♎</u> 29'13	-0°55'19
minimum elong	653 Apr 03 j 14:54	16° <u>♎</u> 23'41	0°27'54	minimum elong	654 Mar 18 j 17:38	0° <u>♎</u> 43'13	0°54'49
asc. node	653 Apr 06 j 06:22	22° <u>♎</u> 04'25		asc. node	654 Mar 24 j 03:24	12° <u>♎</u> 04'59	
	653 Apr 09 j 23:10	0° <u>♏</u>		evening rise	654 Mar 26 j 02:45	16° <u>♎</u> 12'37	
evening rise	653 Apr 10 j 16:58	1° <u>♏</u> 34'08			654 Apr 02 j 02:29	0° <u>♏</u>	
	653 Apr 26 j 16:03	0° <u>♐</u>		evening max el	654 Apr 14 j 20:14	18° <u>♏</u> 05'47	21°18'09
evening max el	653 May 02 j 23:01	7° <u>♐</u> 20'05	22°49'00	retrograde	654 Apr 26 j 19:53	23° <u>♏</u> 55'53	
desc. node	653 May 15 j 11:03	13° <u>♐</u> 53'56		evening set	654 Apr 29 j 03:44	22° <u>♏</u> 43'25	
retrograde	653 May 16 j 05:22	13° <u>♐</u> 55'15		desc. node	654 May 02 j 08:03	22° <u>♏</u> 49'32	
evening set	653 May 19 j 12:15	13° <u>♐</u> 31'32		inferior conj	654 May 08 j 12:56	19° <u>♏</u> 43'37	-1°46'07
min. Earth dist.	653 May 27 j 07:37	10° <u>♐</u> 05'30	0.55453 AU	minimum elong	654 May 08 j 07:59	19° <u>♏</u> 50'34	1°44'25
inferior conj	653 May 28 j 18:15	9° <u>♐</u> 15'46	-3°30'08	min. Earth dist.	654 May 08 j 20:19	19° <u>♏</u> 33'14	0.54959 AU
minimum elong	653 May 28 j 10:46	9° <u>♐</u> 26'33	3°28'12	morning rise	654 May 17 j 12:36	15° <u>♏</u> 43'16	
morning rise	653 Jun 06 j 11:40	5° <u>♐</u> 22'48		direct	654 May 20 j 17:10	15° <u>♏</u> 21'09	
direct	653 Jun 09 j 07:03	5° <u>♐</u> 04'23		morning max el	654 Jun 02 j 09:07	21° <u>♏</u> 22'06	22°18'16
morning max el	653 Jun 20 j 08:51	10° <u>♐</u> 12'30	20°46'23		654 Jun 09 j 17:30	0° <u>♐</u>	
asc. node	653 Jul 03 j 05:38	28° <u>♐</u> 19'19		asc. node	654 Jun 20 j 02:41	17° <u>♐</u> 42'45	
	653 Jul 04 j 03:23	0° <u>♑</u>		morning set	654 Jun 24 j 00:19	25° <u>♐</u> 38'36	
morning set	653 Jul 09 j 14:17	10° <u>♑</u> 47'15			654 Jun 26 j 01:59	0° <u>♑</u>	
superior conj	653 Jul 17 j 02:53	26° <u>♑</u> 21'28	1°43'35	superior conj	654 Jul 01 j 05:16	10° <u>♑</u> 54'54	1°34'02
minimum elong	653 Jul 17 j 01:35	26° <u>♑</u> 14'50	1°43'30	minimum elong	654 Jul 01 j 03:06	10° <u>♑</u> 43'26	1°33'50
	653 Jul 18 j 21:54	0° <u>♒</u>		max. Earth dist.	654 Jul 04 j 10:28	17° <u>♑</u> 37'39	1.34384 AU
max. Earth dist.	653 Jul 21 j 18:01	5° <u>♒</u> 38'45	1.35856 AU	evening rise	654 Jul 09 j 04:02	27° <u>♑</u> 06'59	
evening rise	653 Jul 25 j 20:41	13° <u>♒</u> 30'55			654 Jul 10 j 15:55	0° <u>♒</u>	
	653 Aug 04 j 05:32	0° <u>♓</u>			654 Jul 28 j 12:29	0° <u>♓</u>	
desc. node	653 Aug 11 j 10:25	11° <u>♓</u> 21'44		desc. node	654 Jul 29 j 07:26	1° <u>♓</u> 08'26	
	653 Aug 25 j 07:38	0° <u>♑</u>		evening max el	654 Aug 12 j 23:47	19° <u>♓</u> 02'02	27°05'24

retrograde	654 Aug 26 j 06:36	26° \mathbb{M} 20'44		minimum elong	655 Jun 15 j 10:24	25° \mathbb{I} 30'49	1°19'02
evening set	654 Sep 02 j 04:11	23° \mathbb{M} 35'31		max. Earth dist.	655 Jun 17 j 12:19	29° \mathbb{I} 58'59	1.33304 AU
min. Earth dist.	654 Sep 06 j 00:44	19° \mathbb{M} 49'13	0.65194 AU		655 Jun 17 j 12:30	0° \mathbb{S}	
inferior conj	654 Sep 08 j 01:37	17° \mathbb{M} 30'47	-2°35'45	evening rise	655 Jun 22 j 22:44	11° \mathbb{S} 17'23	
minimum elong	654 Sep 08 j 05:35	17° \mathbb{M} 19'34	2°34'20		655 Jul 02 j 22:26	0° \mathbb{Q}	
morning rise	654 Sep 14 j 07:43	11° \mathbb{M} 55'34		desc. node	655 Jul 16 j 04:25	20° \mathbb{Q} 20'46	
asc. node	654 Sep 16 j 01:54	11° \mathbb{M} 20'09			655 Jul 24 j 05:25	0° \mathbb{M}	
direct	654 Sep 17 j 01:43	11° \mathbb{M} 14'48		evening max el	655 Jul 26 j 10:48	2° \mathbb{M} 13'40	27°25'21
morning max el	654 Sep 23 j 14:31	14° \mathbb{M} 46'30	18°11'01	retrograde	655 Aug 09 j 02:12	9° \mathbb{M} 32'40	
	654 Oct 04 j 11:28	0° \mathbb{L}		evening set	655 Aug 16 j 06:28	6° \mathbb{M} 52'54	
morning set	654 Oct 12 j 01:04	12° \mathbb{L} 26'31		min. Earth dist.	655 Aug 19 j 21:50	3° \mathbb{M} 40'12	0.63688 AU
	654 Oct 22 j 19:38	0° \mathbb{M}		inferior conj	655 Aug 22 j 11:37	1° \mathbb{M} 01'57	-3°28'33
desc. node	654 Oct 25 j 06:43	3° \mathbb{M} 56'02		minimum elong	655 Aug 22 j 16:29	0° \mathbb{M} 49'26	3°27'09
					655 Aug 23 j 12:01	30° \mathbb{R} \mathbb{Q}	
superior conj	654 Oct 26 j 11:57	5° \mathbb{M} 52'11	-0°08'05	morning rise	655 Aug 29 j 03:36	25° \mathbb{Q} 43'11	
minimum elong	654 Oct 26 j 10:55	5° \mathbb{M} 48'05	0°07'57	direct	655 Aug 31 j 16:52	25° \mathbb{Q} 11'11	
behind sun begin	654 Oct 26 j 01:18	5° \mathbb{M} 09'52		asc. node	655 Sep 02 j 22:56	25° \mathbb{Q} 36'29	
behind sun end	654 Oct 26 j 20:32	6° \mathbb{M} 26'16		morning max el	655 Sep 07 j 06:24	28° \mathbb{Q} 37'02	17°54'11
max. Earth dist.	654 Oct 29 j 15:14	10° \mathbb{M} 49'48	1.44919 AU		655 Sep 08 j 13:24	0° \mathbb{M}	
	654 Nov 10 j 21:38	0° \mathbb{J}		morning set	655 Sep 24 j 00:50	24° \mathbb{M} 25'27	
evening rise	654 Nov 11 j 23:03	1° \mathbb{J} 38'46			655 Sep 27 j 06:21	0° \mathbb{L}	
greatest brilliancy	654 Nov 24 j 11:28	20° \mathbb{J} 55'31	-0.7m				
	654 Nov 30 j 17:12	0° \mathbb{Z}		superior conj	655 Oct 06 j 10:38	15° \mathbb{L} 26'59	0°37'36
evening max el	654 Dec 06 j 16:12	7° \mathbb{Z} 20'08	19°38'27	minimum elong	655 Oct 06 j 14:26	15° \mathbb{L} 42'38	0°37'05
asc. node	654 Dec 13 j 01:09	11° \mathbb{Z} 30'54		desc. node	655 Oct 12 j 03:45	24° \mathbb{L} 42'57	
retrograde	654 Dec 14 j 00:43	11° \mathbb{Z} 36'18		max. Earth dist.	655 Oct 12 j 08:23	25° \mathbb{L} 01'27	1.44110 AU
evening set	654 Dec 17 j 12:51	10° \mathbb{Z} 24'20			655 Oct 15 j 11:35	0° \mathbb{M}	
inferior conj	654 Dec 23 j 01:07	4° \mathbb{Z} 26'51	2°56'54	evening rise	655 Oct 22 j 07:36	10° \mathbb{M} 39'04	
minimum elong	654 Dec 22 j 22:23	4° \mathbb{Z} 35'49	2°56'12		655 Nov 04 j 02:50	0° \mathbb{J}	
min. Earth dist.	654 Dec 24 j 03:35	2° \mathbb{Z} 59'59	0.66512 AU	evening max el	655 Nov 19 j 18:13	20° \mathbb{J} 49'06	20°40'09
	654 Dec 26 j 14:08	30° \mathbb{R} \mathbb{J}		retrograde	655 Nov 27 j 22:23	25° \mathbb{J} 38'51	
morning rise	654 Dec 28 j 07:40	28° \mathbb{J} 14'21		asc. node	655 Nov 29 j 22:11	25° \mathbb{J} 16'26	
direct	655 Jan 03 j 10:27	25° \mathbb{J} 31'20		evening set	655 Dec 01 j 19:43	24° \mathbb{J} 12'00	
	655 Jan 12 j 16:23	0° \mathbb{Z}		inferior conj	655 Dec 07 j 05:14	18° \mathbb{J} 02'57	2°18'38
morning max el	655 Jan 15 j 16:18	2° \mathbb{Z} 47'53	25°41'10	minimum elong	655 Dec 07 j 02:39	18° \mathbb{J} 11'46	2°17'46
desc. node	655 Jan 21 j 05:54	9° \mathbb{Z} 00'46		min. Earth dist.	655 Dec 07 j 18:59	17° \mathbb{J} 16'04	0.67265 AU
	655 Feb 05 j 08:55	0° \mathbb{A}		morning rise	655 Dec 12 j 09:23	11° \mathbb{J} 49'37	
morning set	655 Feb 20 j 22:39	26° \mathbb{A} 09'29		direct	655 Dec 17 j 21:37	9° \mathbb{J} 24'02	
	655 Feb 23 j 00:30	0° \mathbb{H}		morning max el	655 Dec 29 j 00:33	16° \mathbb{J} 02'05	24°17'28
max. Earth dist.	655 Feb 24 j 17:47	3° \mathbb{H} 14'53	1.35959 AU	desc. node	656 Jan 08 j 02:57	28° \mathbb{J} 04'27	
					656 Jan 09 j 13:21	0° \mathbb{Z}	
superior conj	655 Mar 02 j 08:18	14° \mathbb{H} 13'16	-1°21'02		656 Jan 29 j 08:19	0° \mathbb{A}	
minimum elong	655 Mar 02 j 12:01	14° \mathbb{H} 31'55	1°20'28	morning set	656 Feb 02 j 21:19	7° \mathbb{A} 43'43	
evening rise	655 Mar 10 j 08:37	0° \mathbb{Y} 33'27		max. Earth dist.	656 Feb 06 j 14:20	14° \mathbb{A} 17'45	1.37918 AU
	655 Mar 10 j 02:02	0° \mathbb{Y}					
asc. node	655 Mar 11 j 00:27	1° \mathbb{Y} 53'46		superior conj	656 Feb 13 j 14:15	27° \mathbb{A} 19'24	-1°43'06
evening max el	655 Mar 28 j 04:30	29° \mathbb{Y} 26'12	20°01'46	minimum elong	656 Feb 13 j 18:13	27° \mathbb{A} 38'25	1°42'41
	655 Mar 28 j 18:57	0° \mathbb{B}			656 Feb 14 j 23:33	0° \mathbb{H}	
retrograde	655 Apr 07 j 10:59	4° \mathbb{B} 22'30		evening rise	656 Feb 22 j 08:11	14° \mathbb{H} 29'58	
evening set	655 Apr 09 j 12:44	4° \mathbb{B} 11'20		asc. node	656 Feb 25 j 21:28	21° \mathbb{H} 25'41	
inferior conj	655 Apr 18 j 10:36	0° \mathbb{B} 11'52	0°13'14		656 Mar 01 j 14:37	0° \mathbb{Y}	
minimum elong	655 Apr 18 j 11:12	0° \mathbb{B} 10'58	0°13'02	evening max el	656 Mar 09 j 23:54	11° \mathbb{Y} 25'23	19°04'11
transit middle	655 Apr 18 j 11:12	0° \mathbb{B} 10'58	0°13'02	retrograde	656 Mar 18 j 15:27	15° \mathbb{Y} 35'52	
transit begin	655 Apr 18 j 08:54	0° \mathbb{B} 14'26		evening set	656 Mar 20 j 20:42	15° \mathbb{Y} 20'33	
transit end	655 Apr 18 j 13:30	0° \mathbb{B} 07'30		inferior conj	656 Mar 28 j 23:55	11° \mathbb{Y} 07'16	1°55'14
	655 Apr 18 j 18:27	30° \mathbb{R} \mathbb{Y}		minimum elong	656 Mar 29 j 03:52	11° \mathbb{Y} 00'25	1°54'01
desc. node	655 Apr 19 j 05:03	29° \mathbb{Y} 43'58		min. Earth dist.	656 Apr 01 j 01:42	9° \mathbb{Y} 00'27	0.56763 AU
min. Earth dist.	655 Apr 20 j 10:14	29° \mathbb{Y} 00'08	0.55430 AU	desc. node	656 Apr 05 j 02:06	6° \mathbb{Y} 40'39	
morning rise	655 Apr 27 j 07:35	25° \mathbb{Y} 46'00		morning rise	656 Apr 06 j 08:03	6° \mathbb{Y} 08'15	
direct	655 May 01 j 07:28	25° \mathbb{Y} 10'56		direct	656 Apr 11 j 10:08	5° \mathbb{Y} 07'27	
	655 May 12 j 19:17	0° \mathbb{B}		morning max el	656 Apr 25 j 16:14	12° \mathbb{Y} 28'31	25°36'03
morning max el	655 May 15 j 01:41	1° \mathbb{B} 59'38	23°59'17		656 May 09 j 06:48	0° \mathbb{B}	
	655 Jun 03 j 06:22	0° \mathbb{I}		morning set	656 May 22 j 23:46	25° \mathbb{B} 32'58	
asc. node	655 Jun 06 j 23:43	7° \mathbb{I} 26'33		asc. node	656 May 23 j 20:45	27° \mathbb{B} 24'04	
morning set	655 Jun 08 j 12:02	10° \mathbb{I} 35'54			656 May 25 j 01:52	0° \mathbb{I}	
superior conj	655 Jun 15 j 12:52	25° \mathbb{I} 44'07	1°19'23	superior conj	656 May 29 j 23:27	10° \mathbb{I} 40'57	1°00'36

minimum elong	656 May 29 j 21:11	10° Π 28'38	1°00'12	max. Earth dist.	657 May 14 j 09:40	25° \mathcal{B} 30'56	1.32307 AU
max. Earth dist.	656 May 30 j 21:13	12° Π 39'59	1.32618 AU		657 May 16 j 10:40	0° Π	
evening rise	656 Jun 06 j 01:19	25° Π 50'32		evening rise	657 May 21 j 09:07	10° Π 37'48	
	656 Jun 08 j 02:16	0° \mathfrak{E}			657 May 31 j 08:48	0° \mathfrak{E}	
	656 Jun 25 j 11:02	0° Ω		desc. node	657 Jun 18 j 22:26	25° \mathfrak{E} 55'51	
desc. node	656 Jul 02 j 01:25	8° Ω 43'29		evening max el	657 Jun 19 j 19:53	26° \mathfrak{E} 48'09	26°29'21
evening max el	656 Jul 07 j 18:23	14° Ω 52'47	27°13'57		657 Jun 23 j 14:07	0° Ω	
retrograde	656 Jul 21 j 14:51	22° Ω 08'56		retrograde	657 Jul 03 j 19:36	4° Ω 01'36	
evening set	656 Jul 28 j 18:02	19° Ω 47'39		evening set	657 Jul 10 j 10:18	2° Ω 11'33	
min. Earth dist.	656 Aug 01 j 08:30	17° Ω 00'13	0.61862 AU		657 Jul 13 j 19:29	30° \mathcal{R} \mathfrak{E}	
inferior conj	656 Aug 04 j 09:53	14° Ω 13'40	-4°13'28	min. Earth dist.	657 Jul 14 j 09:01	29° \mathfrak{E} 34'42	0.59829 AU
minimum elong	656 Aug 04 j 14:35	14° Ω 02'59	4°12'33	inferior conj	657 Jul 17 j 16:53	26° \mathfrak{E} 56'44	-4°43'20
morning rise	656 Aug 11 j 12:36	9° Ω 14'48		minimum elong	657 Jul 17 j 19:30	26° \mathfrak{E} 51'31	4°43'07
direct	656 Aug 13 j 23:47	8° Ω 48'42		morning rise	657 Jul 25 j 06:43	22° \mathfrak{E} 20'23	
asc. node	656 Aug 19 j 19:59	11° Ω 19'21		direct	657 Jul 27 j 18:08	21° \mathfrak{E} 58'11	
morning max el	656 Aug 20 j 21:10	12° Ω 16'45	17°55'44	morning max el	657 Aug 04 j 07:49	25° \mathfrak{E} 38'01	18°16'46
	656 Sep 01 j 18:47	0° \mathfrak{M}		asc. node	657 Aug 06 j 17:02	28° \mathfrak{E} 14'12	
morning set	656 Sep 05 j 20:40	7° \mathfrak{M} 21'51			657 Aug 08 j 01:52	0° Ω	
				morning set	657 Aug 20 j 07:00	21° Ω 00'00	
superior conj	656 Sep 16 j 12:35	26° \mathfrak{M} 22'19	1°12'17		657 Aug 25 j 01:02	0° \mathfrak{M}	
minimum elong	656 Sep 16 j 17:23	26° \mathfrak{M} 43'01	1°11'45				
	656 Sep 18 j 15:21	0° \mathfrak{L}		superior conj	657 Aug 29 j 15:31	8° \mathfrak{M} 31'48	1°34'16
max. Earth dist.	656 Sep 23 j 21:37	8° \mathfrak{L} 47'43	1.42690 AU	minimum elong	657 Aug 29 j 18:53	8° \mathfrak{M} 47'09	1°34'00
desc. node	656 Sep 28 j 00:46	15° \mathfrak{L} 29'13		max. Earth dist.	657 Sep 06 j 05:19	21° \mathfrak{M} 53'48	1.40839 AU
evening rise	656 Sep 30 j 18:42	19° \mathfrak{L} 50'29		evening rise	657 Sep 10 j 23:54	29° \mathfrak{M} 52'51	
	656 Oct 07 j 08:36	0° \mathfrak{M}			657 Sep 11 j 01:39	0° \mathfrak{L}	
	656 Oct 28 j 17:52	0° \mathfrak{J}		desc. node	657 Sep 14 j 21:48	6° \mathfrak{L} 11'29	
evening max el	656 Nov 01 j 14:30	4° \mathfrak{J} 18'41	21°52'54		657 Sep 30 j 20:54	0° \mathfrak{M}	
retrograde	656 Nov 10 j 18:56	9° \mathfrak{J} 46'27		evening max el	657 Oct 15 j 05:48	17° \mathfrak{M} 49'51	23°12'00
evening set	656 Nov 15 j 03:27	8° \mathfrak{J} 02'58		retrograde	657 Oct 25 j 12:56	23° \mathfrak{M} 55'57	
asc. node	656 Nov 15 j 19:13	7° \mathfrak{J} 29'02		evening set	657 Oct 30 j 10:22	21° \mathfrak{M} 54'51	
inferior conj	656 Nov 20 j 11:51	1° \mathfrak{J} 45'38	1°33'38	asc. node	657 Nov 02 j 16:16	18° \mathfrak{M} 23'51	
minimum elong	656 Nov 20 j 09:52	1° \mathfrak{J} 52'29	1°32'52	inferior conj	657 Nov 04 j 19:05	15° \mathfrak{M} 32'53	0°43'28
min. Earth dist.	656 Nov 20 j 14:12	1° \mathfrak{J} 37'30	0.67654 AU	minimum elong	657 Nov 04 j 18:05	15° \mathfrak{M} 36'21	0°43'03
	656 Nov 21 j 18:38	30° \mathcal{R} \mathfrak{M}		min. Earth dist.	657 Nov 04 j 10:50	16° \mathfrak{M} 01'17	0.67708 AU
morning rise	656 Nov 25 j 16:08	25° \mathfrak{M} 33'26		morning rise	657 Nov 10 j 01:43	9° \mathfrak{M} 23'51	
direct	656 Nov 30 j 13:08	23° \mathfrak{M} 29'47		direct	657 Nov 14 j 08:10	7° \mathfrak{M} 43'01	
morning max el	656 Dec 10 j 10:24	29° \mathfrak{M} 21'27	22°49'26	morning max el	657 Nov 23 j 01:20	12° \mathfrak{M} 49'00	21°25'29
	656 Dec 11 j 01:26	0° \mathfrak{J}			657 Dec 06 j 13:10	0° \mathfrak{J}	
desc. node	656 Dec 25 j 00:00	17° \mathfrak{J} 42'37		desc. node	657 Dec 11 j 21:03	7° \mathfrak{J} 45'14	
	657 Jan 02 j 08:48	0° \mathfrak{Z}		morning set	657 Dec 24 j 08:13	26° \mathfrak{J} 49'50	
morning set	657 Jan 13 j 17:13	17° \mathfrak{Z} 57'44			657 Dec 26 j 08:06	0° \mathfrak{Z}	
max. Earth dist.	657 Jan 18 j 10:05	25° \mathfrak{Z} 52'16	1.40049 AU	max. Earth dist.	657 Dec 31 j 11:12	8° \mathfrak{Z} 19'00	1.42071 AU
	657 Jan 20 j 19:20	0° \approx					
				superior conj	658 Jan 07 j 21:17	20° \mathfrak{Z} 49'54	-2°02'46
superior conj	657 Jan 26 j 04:23	9° \approx 36'11	-1°58'24	minimum elong	658 Jan 07 j 20:27	20° \mathfrak{Z} 46'16	2°02'46
minimum elong	657 Jan 26 j 07:03	9° \approx 48'24	1°58'16		658 Jan 13 j 02:32	0° \approx	
evening rise	657 Feb 04 j 22:31	27° \approx 54'47		evening rise	658 Jan 18 j 23:57	10° \approx 38'46	
	657 Feb 06 j 00:53	0° \mathfrak{H}		asc. node	658 Jan 29 j 15:35	29° \approx 12'37	
asc. node	657 Feb 11 j 18:31	10° \mathfrak{H} 34'44			658 Jan 30 j 03:56	0° \mathfrak{H}	
evening max el	657 Feb 21 j 04:00	23° \mathfrak{H} 57'42	18°26'41	evening max el	658 Feb 04 j 13:40	6° \mathfrak{H} 53'40	18°09'07
retrograde	657 Feb 28 j 15:06	27° \mathfrak{H} 38'15		retrograde	658 Feb 11 j 07:55	10° \mathfrak{H} 20'06	
evening set	657 Mar 03 j 01:45	27° \mathfrak{H} 15'47		evening set	658 Feb 13 j 23:32	9° \mathfrak{H} 48'48	
inferior conj	657 Mar 10 j 10:18	22° \mathfrak{H} 42'31	3°03'29	inferior conj	658 Feb 20 j 16:35	4° \mathfrak{H} 54'37	3°38'44
minimum elong	657 Mar 10 j 14:06	22° \mathfrak{H} 34'47	3°02'41	minimum elong	658 Feb 20 j 18:27	4° \mathfrak{H} 50'15	3°38'34
min. Earth dist.	657 Mar 13 j 20:43	19° \mathfrak{H} 56'55	0.58659 AU	min. Earth dist.	658 Feb 23 j 22:05	1° \mathfrak{H} 53'53	0.60770 AU
morning rise	657 Mar 17 j 23:50	17° \mathfrak{H} 14'18			658 Feb 26 j 05:06	30° \mathcal{R} \approx	
desc. node	657 Mar 22 j 23:08	15° \mathfrak{H} 41'02		morning rise	658 Feb 27 j 11:34	29° \approx 06'31	
direct	657 Mar 24 j 02:05	15° \mathfrak{H} 37'45		direct	658 Mar 06 j 05:38	26° \approx 53'33	
morning max el	657 Apr 07 j 10:35	23° \mathfrak{H} 17'48	26°53'07	desc. node	658 Mar 09 j 20:12	27° \approx 28'50	
	657 Apr 13 j 10:50	0° \mathfrak{Y}			658 Mar 14 j 19:44	0° \mathfrak{H}	
	657 May 02 j 05:57	0° \mathfrak{B}		morning max el	658 Mar 20 j 11:12	4° \mathfrak{H} 44'16	27°38'28
morning set	657 May 07 j 09:53	10° \mathfrak{B} 24'24			658 Apr 08 j 05:45	0° \mathfrak{Y}	
asc. node	657 May 10 j 17:48	17° \mathfrak{B} 30'26		morning set	658 Apr 21 j 16:33	25° \mathfrak{Y} 03'00	
					658 Apr 24 j 01:19	0° \mathfrak{B}	
superior conj	657 May 14 j 11:13	25° \mathfrak{B} 39'28	0°38'32	asc. node	658 Apr 27 j 14:52	7° \mathfrak{B} 40'29	
minimum elong	657 May 14 j 09:36	25° \mathfrak{B} 30'35	0°38'12	max. Earth dist.	658 Apr 27 j 21:40	8° \mathfrak{B} 17'38	1.32359 AU

superior conj	658 Apr 28 j 22:27	10°♄33'01	0°13'54	morning set	659 Apr 05 j 17:32	9°♃21'23	
minimum elong	658 Apr 28 j 21:49	10°♄29'34	0°13'46	max. Earth dist.	659 Apr 11 j 05:14	20°♃46'11	1.32800 AU
behind sun begin	658 Apr 28 j 19:18	10°♄15'47					
behind sun end	658 Apr 29 j 00:20	10°♄43'21		superior conj	659 Apr 13 j 07:25	25°♃15'51	-0°12'32
evening rise	658 May 05 j 19:52	25°♄30'55		minimum elong	659 Apr 13 j 08:01	25°♃19'06	0°12'24
	658 May 07 j 23:26	0°♄		behind sun begin	659 Apr 13 j 04:44	25°♃01'22	
	658 May 25 j 14:35	0°♄		behind sun end	659 Apr 13 j 11:18	25°♃36'50	
evening max el	658 Jun 01 j 14:20	7°♄57'53	25°15'50	asc. node	659 Apr 14 j 11:55	27°♃50'08	
desc. node	658 Jun 05 j 19:26	11°♄29'21			659 Apr 15 j 11:51	0°♄	
retrograde	658 Jun 15 j 14:50	15°♄06'34		evening rise	659 Apr 20 j 07:41	10°♄23'18	
evening set	658 Jun 21 j 03:37	13°♄55'28			659 Apr 30 j 10:31	0°♄	
min. Earth dist.	658 Jun 26 j 02:07	11°♄10'41	0.57806 AU	evening max el	659 May 14 j 04:44	18°♄36'21	23°44'13
inferior conj	658 Jun 29 j 05:14	9°♄01'47	-4°47'14	desc. node	659 May 23 j 16:28	24°♄48'12	
minimum elong	658 Jun 29 j 03:34	9°♄04'41	4°47'09	retrograde	659 May 27 j 22:03	25°♄28'57	
morning rise	658 Jul 07 j 06:10	4°♄47'43		evening set	659 May 31 j 23:50	24°♄52'22	
direct	658 Jul 09 j 19:26	4°♄28'08		min. Earth dist.	659 Jun 07 j 15:29	21°♄44'37	0.56124 AU
morning max el	658 Jul 18 j 11:18	8°♄31'54	18°58'24	inferior conj	659 Jun 09 j 21:26	20°♄22'58	-4°11'51
asc. node	658 Jul 24 j 14:06	16°♄06'08		minimum elong	659 Jun 09 j 15:06	20°♄32'36	4°10'41
	658 Aug 01 j 12:15	0°♄		morning rise	659 Jun 18 j 09:08	16°♄25'20	
morning set	658 Aug 04 j 03:34	5°♄08'41		direct	659 Jun 21 j 01:33	16°♄07'05	
				morning max el	659 Jul 01 j 04:50	20°♄48'41	20°01'07
superior conj	658 Aug 12 j 13:50	21°♄39'30	1°44'54		659 Jul 08 j 14:16	0°♄	
minimum elong	658 Aug 12 j 15:08	21°♄45'43	1°44'51	asc. node	659 Jul 11 j 11:09	4°♄41'53	
	658 Aug 17 j 00:25	0°♄		morning set	659 Jul 19 j 07:13	19°♄39'15	
max. Earth dist.	658 Aug 19 j 08:42	4°♄15'41	1.38809 AU		659 Jul 24 j 08:54	0°♄	
evening rise	658 Aug 23 j 05:37	11°♄04'26					
desc. node	658 Sep 01 j 18:49	26°♄45'50		superior conj	659 Jul 27 j 02:10	5°♄29'43	1°46'14
	658 Sep 03 j 20:57	0°♄		minimum elong	659 Jul 27 j 01:40	5°♄27'10	1°46'14
	658 Sep 26 j 08:56	0°♄		max. Earth dist.	659 Aug 01 j 13:08	16°♄09'21	1.36863 AU
evening max el	658 Sep 27 j 18:10	1°♄24'43	24°31'27	evening rise	659 Aug 05 j 10:16	23°♄21'53	
retrograde	658 Oct 09 j 03:18	8°♄03'58			659 Aug 09 j 03:57	0°♄	
evening set	658 Oct 14 j 14:51	5°♄45'39		desc. node	659 Aug 19 j 15:49	17°♄07'02	
min. Earth dist.	658 Oct 19 j 06:33	0°♄25'37	0.67437 AU		659 Aug 28 j 13:59	0°♄	
	658 Oct 19 j 14:14	30°♄		evening max el	659 Sep 10 j 05:51	15°♄02'37	25°43'59
inferior conj	658 Oct 20 j 01:14	29°♄23'09	-0°10'26	retrograde	659 Sep 22 j 13:02	22°♄04'52	
minimum elong	658 Oct 20 j 01:29	29°♄22'18	0°10'19	evening set	659 Sep 28 j 15:02	19°♄31'45	
transit middle	658 Oct 20 j 01:29	29°♄22'18	0°10'19	min. Earth dist.	659 Oct 02 j 22:54	14°♄47'15	0.66842 AU
transit begin	658 Oct 19 j 23:22	29°♄29'24		inferior conj	659 Oct 04 j 04:29	13°♄13'01	-1°06'41
transit end	658 Oct 20 j 03:37	29°♄15'13		minimum elong	659 Oct 04 j 06:12	13°♄07'35	1°05'57
asc. node	658 Oct 20 j 13:19	28°♄42'53		asc. node	659 Oct 07 j 10:22	9°♄22'17	
morning rise	658 Oct 25 j 12:12	23°♄19'40		morning rise	659 Oct 09 j 21:37	7°♄17'56	
direct	658 Oct 29 j 05:41	21°♄59'53		direct	659 Oct 13 j 04:11	6°♄16'04	
morning max el	658 Nov 05 j 23:37	26°♄27'13	20°11'56	morning max el	659 Oct 20 j 05:21	10°♄14'10	19°12'18
	658 Nov 09 j 03:47	0°♄			659 Nov 03 j 15:10	0°♄	
desc. node	658 Nov 28 j 18:07	28°♄05'49		morning set	659 Nov 12 j 08:48	13°♄32'52	
	658 Nov 29 j 23:57	0°♄		desc. node	659 Nov 15 j 15:09	18°♄38'30	
morning set	658 Dec 03 j 05:20	4°♄57'56			659 Nov 22 j 21:20	0°♄	
max. Earth dist.	658 Dec 13 j 19:41	21°♄37'40	1.43708 AU	max. Earth dist.	659 Nov 26 j 10:34	5°♄35'18	1.44750 AU
	658 Dec 18 j 23:45	0°♄					
superior conj	658 Dec 19 j 12:25	0°♄51'56	-1°51'28	superior conj	659 Nov 29 j 02:10	9°♄46'48	-1°21'33
minimum elong	658 Dec 19 j 06:30	0°♄27'41	1°51'06	minimum elong	659 Nov 28 j 17:41	9°♄13'10	1°20'39
evening rise	659 Jan 01 j 08:20	22°♄34'23			659 Dec 11 j 15:16	0°♄	
	659 Jan 05 j 15:15	0°♄		evening rise	659 Dec 13 j 19:19	3°♄33'50	
asc. node	659 Jan 16 j 12:37	17°♄10'16			659 Dec 30 j 14:43	0°♄	
evening max el	659 Jan 19 j 01:59	20°♄06'10	18°10'56	evening max el	660 Jan 02 j 14:10	3°♄28'30	18°31'24
retrograde	659 Jan 25 j 13:39	23°♄32'12		asc. node	660 Jan 03 j 09:39	4°♄15'51	
evening set	659 Jan 28 j 09:57	22°♄51'00		retrograde	660 Jan 09 j 03:58	7°♄06'04	
inferior conj	659 Feb 03 j 15:12	17°♄36'35	3°48'03	evening set	660 Jan 12 j 05:30	6°♄13'50	
minimum elong	659 Feb 03 j 14:57	17°♄37'14	3°48'04	inferior conj	660 Jan 18 j 02:08	0°♄40'47	3°38'28
min. Earth dist.	659 Feb 06 j 08:07	14°♄44'37	0.62803 AU	minimum elong	660 Jan 18 j 00:23	0°♄45'58	3°38'15
morning rise	659 Feb 09 j 18:57	11°♄36'46			660 Jan 18 j 15:56	30°♄	
direct	659 Feb 16 j 18:36	8°♄57'01		min. Earth dist.	660 Jan 20 j 03:41	28°♄15'19	0.64548 AU
desc. node	659 Feb 24 j 17:16	11°♄48'21		morning rise	660 Jan 23 j 18:46	24°♄34'07	
morning max el	659 Mar 02 j 17:13	16°♄50'58	27°46'47	direct	660 Jan 30 j 14:55	21°♄42'30	
	659 Mar 13 j 15:11	0°♄		desc. node	660 Feb 11 j 14:20	28°♄04'04	
	659 Mar 31 j 22:32	0°♄		morning max el	660 Feb 13 j 02:13	29°♄30'49	27°19'42
					660 Feb 13 j 13:46	0°♄	

	660 Mar 06 j 12:44	0° H		morning max el	661 Jan 25 j 11:50	12° Z 32'15	26°23'24
morning set	660 Mar 19 j 10:07	23° H 10'50		desc. node	661 Jan 28 j 11:22	15° Z 43'06	
	660 Mar 22 j 20:11	0° Y			661 Feb 08 j 13:39	0° \approx	
max. Earth dist.	660 Mar 24 j 04:38	2° Y 46'02	1.33671 AU		661 Feb 27 j 04:04	0° H	
				morning set	661 Mar 02 j 14:30	6° H 19'21	
superior conj	660 Mar 27 j 12:15	9° Y 41'59	-0°39'45	max. Earth dist.	661 Mar 06 j 16:56	14° H 12'21	1.34999 AU
minimum elong	660 Mar 27 j 14:11	9° Y 52'16	0°39'22				
asc. node	660 Mar 31 j 08:57	17° Y 55'29		superior conj	661 Mar 11 j 10:34	23° H 43'33	-1°06'31
evening rise	660 Apr 03 j 18:45	25° Y 09'01		minimum elong	661 Mar 11 j 13:46	23° H 59'54	1°05'58
	660 Apr 06 j 03:01	0° B			661 Mar 14 j 11:23	0° Y	
evening max el	660 Apr 24 j 21:39	29° B 11'49	22°09'11	asc. node	661 Mar 18 j 05:59	7° Y 51'40	
	660 Apr 25 j 18:14	0° II		evening rise	661 Mar 19 j 03:08	9° Y 40'58	
retrograde	660 May 07 j 16:40	5° II 29'11			661 Mar 30 j 00:23	0° B	
desc. node	660 May 09 j 13:30	5° II 21'23		evening max el	661 Apr 06 j 23:16	10° B 10'27	20°43'31
evening set	660 May 10 j 11:42	5° II 11'56		retrograde	661 Apr 18 j 05:36	15° B 37'35	
min. Earth dist.	660 May 19 j 03:48	1° II 29'27	0.55126 AU	evening set	661 Apr 20 j 09:21	15° B 26'23	
inferior conj	660 May 19 j 21:06	1° II 05'07	-2°50'08	desc. node	661 Apr 26 j 10:32	13° B 14'23	
minimum elong	660 May 19 j 14:01	1° II 15'06	2°47'59	inferior conj	661 Apr 29 j 15:08	11° B 28'39	-0°55'15
	660 May 21 j 20:00	30° R B		minimum elong	661 Apr 29 j 12:31	11° B 32'24	0°54'18
morning rise	660 May 28 j 17:54	27° B 11'14		min. Earth dist.	661 Apr 30 j 16:34	10° B 52'16	0.55043 AU
direct	660 May 31 j 16:27	26° B 51'49		morning rise	661 May 08 j 15:03	7° B 19'48	
	660 Jun 09 j 13:26	0° II		direct	661 May 12 j 02:45	6° B 53'35	
morning max el	660 Jun 12 j 11:03	2° II 22'22	21°23'38	morning max el	661 May 25 j 07:20	13° B 15'27	23°00'52
asc. node	660 Jun 27 j 08:13	23° II 50'52			661 Jun 06 j 24:00	0° II	
	660 Jun 30 j 11:37	0° G		asc. node	661 Jun 14 j 05:15	13° II 23'43	
morning set	660 Jul 02 j 15:33	4° G 25'20		morning set	661 Jun 17 j 02:31	19° II 19'59	
					661 Jun 22 j 02:36	0° G	
superior conj	660 Jul 10 j 00:24	19° G 50'38	1°40'13				
minimum elong	660 Jul 09 j 22:40	19° G 41'35	1°40'06	superior conj	661 Jun 24 j 05:18	4° G 31'32	1°28'22
max. Earth dist.	660 Jul 14 j 00:40	28° G 02'18	1.35189 AU	minimum elong	661 Jun 24 j 02:56	4° G 18'55	1°28'07
	660 Jul 15 j 00:18	0° Ω		max. Earth dist.	661 Jun 26 j 21:31	10° G 11'13	1.33879 AU
evening rise	660 Jul 18 j 09:18	6° Ω 33'34		evening rise	661 Jul 01 j 21:56	20° G 25'21	
	660 Jul 31 j 20:36	0° np			661 Jul 06 j 22:10	0° Ω	
desc. node	660 Aug 05 j 12:49	7° np 08'56		desc. node	661 Jul 23 j 09:50	26° Ω 42'34	
evening max el	660 Aug 22 j 17:59	28° np 38'46	26°41'44		661 Jul 25 j 19:46	0° np	
	660 Aug 24 j 04:55	0° $\underline{\text{a}}$		evening max el	661 Aug 05 j 05:45	12° np 02'16	27°17'21
retrograde	660 Sep 04 j 17:30	5° $\underline{\text{a}}$ 53'09		retrograde	661 Aug 18 j 16:20	19° np 21'05	
evening set	660 Sep 11 j 08:51	3° $\underline{\text{a}}$ 10'12		evening set	661 Aug 25 j 17:44	16° np 36'38	
	660 Sep 14 j 13:30	30° R np		min. Earth dist.	661 Aug 29 j 11:46	13° np 05'29	0.64605 AU
min. Earth dist.	660 Sep 15 j 09:25	29° np 02'43	0.65908 AU	inferior conj	661 Aug 31 j 18:11	10° np 37'38	-2°58'45
inferior conj	660 Sep 17 j 02:54	26° np 59'26	-2°03'32	minimum elong	661 Aug 31 j 22:37	10° np 25'34	2°57'17
minimum elong	660 Sep 17 j 06:06	26° np 49'56	2°02'18	morning rise	661 Sep 07 j 04:22	5° np 09'07	
morning rise	660 Sep 23 j 03:50	21° np 15'55		direct	661 Sep 09 j 20:09	4° np 32'23	
asc. node	660 Sep 23 j 07:25	21° np 11'13		asc. node	661 Sep 10 j 04:28	4° np 33'01	
direct	660 Sep 26 j 01:50	20° np 28'22		morning max el	661 Sep 16 j 08:14	8° np 00'11	18°01'41
morning max el	660 Oct 02 j 17:02	24° np 06'51	18°28'30		661 Oct 01 j 03:34	0° $\underline{\text{a}}$	
	660 Oct 07 j 12:54	0° $\underline{\text{a}}$		morning set	661 Oct 03 j 22:58	4° $\underline{\text{a}}$ 44'02	
morning set	660 Oct 22 j 13:34	23° $\underline{\text{a}}$ 26'20					
	660 Oct 26 j 15:38	0° ml		superior conj	661 Oct 17 j 12:37	27° $\underline{\text{a}}$ 06'41	0°12'20
desc. node	660 Nov 01 j 12:09	9° ml 19'18		minimum elong	661 Oct 17 j 14:05	27° $\underline{\text{a}}$ 12'34	0°12'08
				behind sun begin	661 Oct 17 j 07:03	26° $\underline{\text{a}}$ 44'19	
superior conj	660 Nov 07 j 02:55	18° ml 10'56	-0°36'32	behind sun end	661 Oct 17 j 21:06	27° $\underline{\text{a}}$ 40'47	
minimum elong	660 Nov 06 j 22:09	17° ml 52'10	0°35'55	desc. node	661 Oct 19 j 09:10	0° ml 05'05	
max. Earth dist.	660 Nov 08 j 05:16	19° ml 54'32	1.45078 AU		661 Oct 19 j 07:53	0° ml	
	660 Nov 14 j 15:29	0° X		max. Earth dist.	661 Oct 22 j 00:08	4° ml 15'22	1.44662 AU
evening rise	660 Nov 23 j 06:38	13° X 35'16		evening rise	661 Nov 02 j 21:48	22° ml 50'04	
greatest brilliancy	660 Dec 02 j 23:04	28° X 50'40	-0.8m		661 Nov 07 j 13:38	0° X	
	660 Dec 03 j 16:55	0° Z		greatest brilliancy	661 Nov 16 j 22:03	14° X 07'57	-0.6m
evening max el	660 Dec 15 j 23:45	16° Z 55'20	19°09'22		661 Nov 28 j 19:42	0° Z	
asc. node	660 Dec 20 j 06:41	20° Z 15'02		evening max el	661 Nov 29 j 04:50	0° Z 23'55	20°03'04
retrograde	660 Dec 22 j 23:22	20° Z 54'45		retrograde	661 Dec 06 j 20:59	4° Z 53'46	
evening set	660 Dec 26 j 07:15	19° Z 50'16		asc. node	661 Dec 07 j 03:44	4° Z 53'20	
inferior conj	660 Dec 31 j 21:54	14° Z 00'45	3°15'08	evening set	661 Dec 10 j 12:51	3° Z 35'32	
minimum elong	660 Dec 31 j 19:21	14° Z 08'53	3°14'35		661 Dec 14 j 02:26	30° R X	
min. Earth dist.	661 Jan 02 j 08:17	12° Z 11'35	0.65910 AU	inferior conj	661 Dec 15 j 23:42	27° X 32'28	2°41'36
morning rise	661 Jan 06 j 07:11	7° Z 49'56		minimum elong	661 Dec 15 j 20:58	27° X 41'36	2°40'48
direct	661 Jan 12 j 17:26	5° Z 00'45		min. Earth dist.	661 Dec 16 j 20:28	26° X 22'57	0.66876 AU

morning rise	661 Dec 21 j 04:54	21° ♄ 19'25		morning rise	662 Dec 05 j 09:03	4° ♄ 58'43	
direct	661 Dec 27 j 01:32	18° ♄ 43'20		direct	662 Dec 10 j 14:41	2° ♄ 42'14	
morning max el	662 Jan 07 j 20:41	25° ♄ 44'53	25°06'49	morning max el	662 Dec 21 j 05:21	9° ♄ 01'46	23°39'57
	662 Jan 11 j 18:24	0° ♄		desc. node	663 Jan 02 j 05:26	23° ♄ 41'06	
desc. node	662 Jan 15 j 08:24	4° ♄ 21'20			663 Jan 06 j 17:12	0° ♄	
	662 Feb 02 j 02:39	0° ♄		morning set	663 Jan 25 j 13:47	29° ♄ 35'07	
morning set	662 Feb 13 j 01:49	18° ♄ 33'17			663 Jan 25 j 19:38	0° ♄	
max. Earth dist.	662 Feb 16 j 18:13	25° ♄ 16'48	1.36756 AU	max. Earth dist.	663 Jan 29 j 13:09	6° ♄ 27'44	1.38817 AU
	662 Feb 19 j 06:20	0° ♄					
				superior conj	663 Feb 05 j 23:18	19° ♄ 58'53	-1°50'39
superior conj	662 Feb 22 j 23:32	7° ♄ 12'44	-1°31'00	minimum elong	663 Feb 06 j 02:57	20° ♄ 16'04	1°50'21
minimum elong	662 Feb 23 j 03:30	7° ♄ 32'14	1°30'29		663 Feb 11 j 04:57	0° ♄	
evening rise	662 Mar 03 j 06:40	23° ♄ 52'46		evening rise	663 Feb 15 j 02:41	7° ♄ 36'27	
asc. node	662 Mar 05 j 03:01	27° ♄ 34'17		asc. node	663 Feb 20 j 00:05	16° ♄ 57'17	
	662 Mar 06 j 08:40	0° ♄			663 Feb 28 j 00:04	0° ♄	
evening max el	662 Mar 20 j 12:19	21° ♄ 47'04	19°34'48	evening max el	663 Mar 03 j 11:45	4° ♄ 01'07	18°45'48
retrograde	662 Mar 30 j 01:34	26° ♄ 22'50		retrograde	663 Mar 11 j 13:57	7° ♄ 56'55	
evening set	662 Apr 01 j 04:02	26° ♄ 10'27		evening set	663 Mar 13 j 21:19	7° ♄ 38'58	
inferior conj	662 Apr 09 j 18:18	22° ♄ 05'56	1°00'06	inferior conj	663 Mar 21 j 16:22	3° ♄ 17'52	2°28'30
minimum elong	662 Apr 09 j 20:47	22° ♄ 01'59	0°59'15	minimum elong	663 Mar 21 j 20:37	3° ♄ 10'00	2°27'23
min. Earth dist.	662 Apr 12 j 06:59	20° ♄ 29'36	0.55904 AU	min. Earth dist.	663 Mar 24 j 23:59	0° ♄ 51'37	0.57517 AU
desc. node	662 Apr 13 j 07:34	19° ♄ 52'17			663 Mar 26 j 06:18	30° ♄	
morning rise	662 Apr 18 j 10:53	17° ♄ 26'00		morning rise	663 Mar 29 j 16:51	28° ♄ 05'01	
direct	662 Apr 22 j 21:14	16° ♄ 41'52		desc. node	663 Mar 31 j 04:36	27° ♄ 30'15	
morning max el	662 May 06 j 22:26	23° ♄ 46'14	24°41'58	direct	663 Apr 04 j 05:53	26° ♄ 49'36	
	662 May 12 j 13:43	0° ♄			663 Apr 13 j 07:27	0° ♄	
	662 May 30 j 12:51	0° ♄		morning max el	663 Apr 18 j 14:11	4° ♄ 21'08	26°12'07
asc. node	662 Jun 01 j 02:17	3° ♄ 13'55			663 May 07 j 03:53	0° ♄	
morning set	662 Jun 01 j 14:26	4° ♄ 17'47		morning set	663 May 17 j 01:42	19° ♄ 13'18	
				asc. node	663 May 18 j 23:21	23° ♄ 16'00	
					663 May 22 j 01:44	0° ♄	
superior conj	662 Jun 08 j 14:24	19° ♄ 24'40	1°11'52				
minimum elong	662 Jun 08 j 11:58	19° ♄ 11'27	1°11'29	superior conj	663 May 24 j 01:44	4° ♄ 23'19	0°51'37
max. Earth dist.	662 Jun 10 j 02:39	22° ♄ 41'01	1.32963 AU	minimum elong	663 May 23 j 23:42	4° ♄ 12'11	0°51'13
	662 Jun 13 j 13:02	0° ♄		max. Earth dist.	663 May 24 j 13:19	5° ♄ 26'55	1.32432 AU
evening rise	662 Jun 15 j 20:20	4° ♄ 46'05		evening rise	663 May 31 j 01:25	19° ♄ 26'23	
	662 Jun 29 j 14:13	0° ♄			663 Jun 05 j 07:48	0° ♄	
desc. node	662 Jul 10 j 06:52	15° ♄ 35'54			663 Jun 24 j 04:15	0° ♄	
evening max el	662 Jul 18 j 15:23	25° ♄ 00'35	27°24'27	desc. node	663 Jun 27 j 03:53	3° ♄ 32'13	
	662 Jul 25 j 00:28	0° ♄		evening max el	663 Jun 30 j 20:36	7° ♄ 22'22	26°59'02
retrograde	662 Aug 01 j 09:13	2° ♄ 19'08		retrograde	663 Jul 14 j 19:05	14° ♄ 38'13	
	662 Aug 08 j 05:40	30° ♄		evening set	663 Jul 21 j 18:20	12° ♄ 28'45	
evening set	662 Aug 08 j 14:17	29° ♄ 45'09		min. Earth dist.	663 Jul 25 j 10:45	9° ♄ 47'51	0.61003 AU
min. Earth dist.	662 Aug 12 j 04:20	26° ♄ 44'57	0.62945 AU	inferior conj	663 Jul 28 j 15:50	7° ♄ 02'22	-4°28'37
inferior conj	662 Aug 14 j 23:34	24° ♄ 01'07	-3°48'57	minimum elong	663 Jul 28 j 19:55	6° ♄ 53'33	4°27'59
minimum elong	662 Aug 15 j 04:32	23° ♄ 48'56	3°47'41	morning rise	663 Aug 04 j 23:16	2° ♄ 12'56	
morning rise	662 Aug 21 j 20:05	18° ♄ 50'48		direct	663 Aug 07 j 10:06	1° ♄ 48'52	
direct	662 Aug 24 j 08:07	18° ♄ 21'42		morning max el	663 Aug 14 j 13:34	5° ♄ 21'02	18°02'15
asc. node	662 Aug 28 j 01:30	19° ♄ 27'34		asc. node	663 Aug 14 j 22:34	5° ♄ 43'21	
morning max el	662 Aug 31 j 00:06	21° ♄ 47'20	17°52'36	morning set	663 Aug 30 j 10:41	0° ♄ 25'43	
	662 Sep 06 j 06:58	0° ♄			663 Aug 30 j 05:08	0° ♄	
morning set	662 Sep 16 j 08:02	17° ♄ 09'26					
	662 Sep 23 j 16:11	0° ♄		superior conj	663 Sep 09 j 12:02	18° ♄ 45'07	1°23'07
				minimum elong	663 Sep 09 j 16:25	19° ♄ 04'25	1°22'40
superior conj	662 Sep 27 j 22:48	7° ♄ 15'55	0°53'51		663 Sep 16 j 00:39	0° ♄	
minimum elong	662 Sep 28 j 03:27	7° ♄ 35'25	0°53'16	max. Earth dist.	663 Sep 17 j 02:11	1° ♄ 46'51	1.41938 AU
max. Earth dist.	662 Oct 04 j 15:44	18° ♄ 17'45	1.43566 AU	evening rise	663 Sep 22 j 22:35	11° ♄ 19'19	
desc. node	662 Oct 06 j 06:11	20° ♄ 52'14		desc. node	663 Sep 23 j 03:13	11° ♄ 37'48	
	662 Oct 12 j 01:01	0° ♄			663 Oct 05 j 02:37	0° ♄	
evening rise	662 Oct 13 j 05:09	1° ♄ 49'16		evening max el	663 Oct 25 j 22:20	27° ♄ 23'28	22°26'04
	662 Nov 01 j 03:53	0° ♄			663 Oct 28 j 18:17	0° ♄	
evening max el	662 Nov 12 j 04:18	13° ♄ 52'47	21°09'56	retrograde	663 Nov 04 j 14:12	3° ♄ 08'03	
retrograde	662 Nov 20 j 18:32	18° ♄ 58'58		evening set	663 Nov 09 j 03:54	1° ♄ 17'24	
asc. node	662 Nov 24 j 00:46	17° ♄ 59'18		asc. node	663 Nov 10 j 21:49	29° ♄ 36'08	
evening set	662 Nov 24 j 20:18	17° ♄ 25'17			663 Nov 10 j 12:57	30° ♄	
inferior conj	662 Nov 30 j 05:08	11° ♄ 12'02	2°00'15	inferior conj	663 Nov 14 j 12:17	24° ♄ 57'40	1°12'55
minimum elong	662 Nov 30 j 02:46	11° ♄ 20'14	1°59'25	minimum elong	663 Nov 14 j 10:40	25° ♄ 03'14	1°12'17
min. Earth dist.	662 Nov 30 j 13:54	10° ♄ 41'54	0.67470 AU				

min. Earth dist.	663 Nov 14 j 10:08	25° \mathbb{M} 05'05	0.67720 AU	direct	664 Nov 07 j 04:20	1° \mathbb{M} 07'53	
morning rise	663 Nov 19 j 17:17	18° \mathbb{M} 46'16		morning max el	664 Nov 15 j 10:39	5° \mathbb{M} 55'54	20°52'39
direct	663 Nov 24 j 07:59	16° \mathbb{M} 52'11			664 Dec 03 j 11:58	0° \mathbb{M}	
morning max el	663 Dec 03 j 16:52	22° \mathbb{M} 24'09	22°12'39	desc. node	664 Dec 05 j 23:32	3° \mathbb{M} 42'23	
	663 Dec 10 j 06:06	0° \mathbb{M}		morning set	664 Dec 15 j 02:11	17° \mathbb{M} 39'22	
desc. node	663 Dec 20 j 02:29	13° \mathbb{M} 30'59			664 Dec 22 j 20:40	0° \mathbb{M}	
	663 Dec 31 j 01:43	0° \mathbb{M}		max. Earth dist.	664 Dec 23 j 14:39	1° \mathbb{M} 12'53	1.42835 AU
morning set	664 Jan 05 j 21:05	9° \mathbb{M} 12'54					
max. Earth dist.	664 Jan 11 j 10:03	18° \mathbb{M} 21'04	1.40945 AU	superior conj	664 Dec 30 j 11:34	12° \mathbb{M} 35'54	-2°00'10
	664 Jan 18 j 04:08	0° \mathbb{M}		minimum elong	664 Dec 30 j 08:37	12° \mathbb{M} 23'27	2°00'04
					665 Jan 09 j 12:04	0° \mathbb{M}	
superior conj	664 Jan 19 j 05:05	1° \mathbb{M} 50'48	-2°01'52	evening rise	665 Jan 11 j 06:45	3° \mathbb{M} 09'55	
minimum elong	664 Jan 19 j 06:34	1° \mathbb{M} 57'21	2°01'51	asc. node	665 Jan 23 j 18:10	24° \mathbb{M} 16'50	
evening rise	664 Jan 29 j 12:00	20° \mathbb{M} 44'47		evening max el	665 Jan 28 j 05:55	29° \mathbb{M} 50'01	18°07'31
	664 Feb 03 j 12:09	0° \mathbb{M}			665 Jan 28 j 09:59	0° \mathbb{M}	
asc. node	664 Feb 06 j 21:08	5° \mathbb{M} 54'12		retrograde	665 Feb 03 j 20:01	3° \mathbb{M} 14'29	
evening max el	664 Feb 14 j 18:41	16° \mathbb{M} 45'06	18°16'50	evening set	665 Feb 06 j 13:44	2° \mathbb{M} 38'55	
retrograde	664 Feb 21 j 21:05	20° \mathbb{M} 17'22			665 Feb 10 j 12:21	30° \mathbb{M}	
evening set	664 Feb 24 j 10:00	19° \mathbb{M} 51'14		inferior conj	665 Feb 13 j 01:18	27° \mathbb{M} 35'46	3°45'24
inferior conj	664 Mar 02 j 11:32	15° \mathbb{M} 09'20	3°22'04	minimum elong	665 Feb 13 j 02:14	27° \mathbb{M} 33'28	3°45'21
minimum elong	664 Mar 02 j 14:37	15° \mathbb{M} 02'40	3°21'35	min. Earth dist.	665 Feb 16 j 01:59	24° \mathbb{M} 36'26	0.61664 AU
min. Earth dist.	664 Mar 05 j 21:22	12° \mathbb{M} 14'03	0.59555 AU	morning rise	665 Feb 19 j 13:22	21° \mathbb{M} 42'12	
morning rise	664 Mar 09 j 16:56	9° \mathbb{M} 31'44		direct	665 Feb 26 j 11:06	19° \mathbb{M} 16'27	
direct	664 Mar 16 j 03:27	7° \mathbb{M} 38'45		desc. node	665 Mar 03 j 22:42	20° \mathbb{M} 38'12	
desc. node	664 Mar 17 j 01:39	7° \mathbb{M} 41'02		morning max el	665 Mar 12 j 13:53	27° \mathbb{M} 08'26	27°46'36
morning max el	664 Mar 30 j 10:50	15° \mathbb{M} 24'11	27°16'45		665 Mar 15 j 07:12	0° \mathbb{M}	
	664 Apr 11 j 07:12	0° \mathbb{M}			665 Apr 04 j 21:58	0° \mathbb{M}	
	664 Apr 28 j 11:51	0° \mathbb{M}		morning set	665 Apr 14 j 15:05	18° \mathbb{M} 31'21	
morning set	664 Apr 30 j 10:33	3° \mathbb{M} 59'57			665 Apr 20 j 01:45	0° \mathbb{M}	
asc. node	664 May 04 j 20:24	13° \mathbb{M} 24'36		max. Earth dist.	665 Apr 20 j 12:43	0° \mathbb{M} 59'19	1.32503 AU
max. Earth dist.	664 May 07 j 01:56	18° \mathbb{M} 17'20	1.32279 AU				
				superior conj	665 Apr 21 j 23:57	4° \mathbb{M} 10'50	0°02'53
superior conj	664 May 07 j 13:28	19° \mathbb{M} 20'40	0°28'22	minimum elong	665 Apr 21 j 23:49	4° \mathbb{M} 10'06	0°02'51
minimum elong	664 May 07 j 12:14	19° \mathbb{M} 13'53	0°28'06	behind sun begin	665 Apr 21 j 18:47	3° \mathbb{M} 42'38	
	664 May 12 j 10:29	0° \mathbb{M}		behind sun end	665 Apr 22 j 04:51	4° \mathbb{M} 37'35	
evening rise	664 May 14 j 10:43	4° \mathbb{M} 17'19		asc. node	665 Apr 21 j 17:27	3° \mathbb{M} 35'23	
	664 May 28 j 03:58	0° \mathbb{M}		evening rise	665 Apr 28 j 22:11	19° \mathbb{M} 11'40	
evening max el	664 Jun 11 j 19:16	18° \mathbb{M} 58'48	26°01'20		665 May 04 j 05:28	0° \mathbb{M}	
desc. node	664 Jun 13 j 00:56	20° \mathbb{M} 07'04		evening max el	665 May 24 j 11:29	29° \mathbb{M} 52'59	24°38'14
retrograde	664 Jun 25 j 20:01	26° \mathbb{M} 10'27			665 May 24 j 14:25	0° \mathbb{M}	
evening set	664 Jul 02 j 01:06	24° \mathbb{M} 37'01		desc. node	665 May 30 j 21:56	4° \mathbb{M} 48'17	
min. Earth dist.	664 Jul 06 j 07:57	21° \mathbb{M} 58'45	0.58945 AU	retrograde	665 Jun 07 j 09:53	6° \mathbb{M} 56'01	
inferior conj	664 Jul 09 j 15:19	19° \mathbb{M} 30'53	-4°49'00	evening set	665 Jun 12 j 08:33	6° \mathbb{M} 00'53	
minimum elong	664 Jul 09 j 16:21	19° \mathbb{M} 28'57	4°48'58	min. Earth dist.	665 Jun 17 j 22:44	3° \mathbb{M} 08'05	0.57035 AU
morning rise	664 Jul 17 j 09:50	15° \mathbb{M} 03'55		inferior conj	665 Jun 20 j 19:02	1° \mathbb{M} 17'39	-4°37'44
direct	664 Jul 19 j 21:51	14° \mathbb{M} 42'56		minimum elong	665 Jun 20 j 15:12	1° \mathbb{M} 23'53	4°37'20
morning max el	664 Jul 27 j 21:29	18° \mathbb{M} 31'43	18°31'51		665 Jun 22 j 19:54	30° \mathbb{M}	
asc. node	664 Jul 31 j 19:37	23° \mathbb{M} 04'18		morning rise	665 Jun 29 j 00:36	27° \mathbb{M} 11'37	
	664 Aug 05 j 07:50	0° \mathbb{M}		direct	665 Jul 01 j 15:17	26° \mathbb{M} 52'36	
morning set	664 Aug 13 j 01:50	14° \mathbb{M} 18'20			665 Jul 09 j 12:22	0° \mathbb{M}	
	664 Aug 21 j 06:31	0° \mathbb{M}		morning max el	665 Jul 10 j 20:54	1° \mathbb{M} 10'23	19°22'30
				asc. node	665 Jul 18 j 16:41	11° \mathbb{M} 16'13	
superior conj	664 Aug 21 j 23:53	1° \mathbb{M} 21'04	1°40'02	morning set	665 Jul 28 j 01:44	28° \mathbb{M} 37'19	
minimum elong	664 Aug 22 j 02:23	1° \mathbb{M} 32'43	1°39'53		665 Jul 28 j 18:17	0° \mathbb{M}	
max. Earth dist.	664 Aug 29 j 07:44	14° \mathbb{M} 33'59	1.39986 AU				
evening rise	664 Sep 02 j 14:03	21° \mathbb{M} 50'47		superior conj	665 Aug 05 j 04:42	14° \mathbb{M} 48'22	1°46'28
	664 Sep 07 j 13:40	0° \mathbb{M}		minimum elong	665 Aug 05 j 05:10	14° \mathbb{M} 50'40	1°46'28
desc. node	664 Sep 09 j 00:15	2° \mathbb{M} 17'29		max. Earth dist.	665 Aug 11 j 11:15	26° \mathbb{M} 42'47	1.37962 AU
	664 Sep 28 j 03:36	0° \mathbb{M}			665 Aug 13 j 06:35	0° \mathbb{M}	
evening max el	664 Oct 07 j 12:18	10° \mathbb{M} 56'57	23°46'11	evening rise	665 Aug 15 j 05:56	3° \mathbb{M} 31'03	
retrograde	664 Oct 18 j 06:39	17° \mathbb{M} 17'28		desc. node	665 Aug 26 j 21:16	22° \mathbb{M} 46'57	
evening set	664 Oct 23 j 09:59	15° \mathbb{M} 09'05			665 Aug 31 j 15:52	0° \mathbb{M}	
asc. node	664 Oct 27 j 18:51	10° \mathbb{M} 09'34		evening max el	665 Sep 20 j 00:10	24° \mathbb{M} 33'20	25°03'35
inferior conj	664 Oct 28 j 19:17	8° \mathbb{M} 46'40	0°21'02		665 Sep 26 j 22:49	0° \mathbb{M}	
minimum elong	664 Oct 28 j 18:47	8° \mathbb{M} 48'23	0°20'49	retrograde	665 Oct 01 j 18:58	1° \mathbb{M} 23'06	
min. Earth dist.	664 Oct 28 j 06:41	9° \mathbb{M} 29'34	0.67638 AU		665 Oct 06 j 03:56	30° \mathbb{M}	
morning rise	664 Nov 03 j 03:31	2° \mathbb{M} 39'41		evening set	665 Oct 07 j 12:51	28° \mathbb{M} 57'53	

min. Earth dist.	665 Oct 12 j 01:07	23°♄53'01	0.67229 AU	inferior conj	666 Sep 27 j 01:49	6°♄25'39	-1°30'50
inferior conj	665 Oct 13 j 00:23	22°♄36'41	-0°34'05	minimum elong	666 Sep 27 j 04:10	6°♄18'22	1°29'52
minimum elong	665 Oct 13 j 01:14	22°♄33'53	0°33'43	asc. node	666 Oct 01 j 12:56	1°♄34'13	
asc. node	665 Oct 14 j 15:54	20°♄29'48		morning rise	666 Oct 02 j 22:06	0°♄35'22	
morning rise	665 Oct 18 j 13:46	16°♄36'41			666 Oct 04 j 03:59	30°♄	
direct	665 Oct 22 j 02:24	15°♄24'56		direct	666 Oct 06 j 00:39	29°♄40'12	
morning max el	665 Oct 29 j 12:14	19°♄38'11	19°44'46		666 Oct 07 j 22:16	0°♄	
	665 Nov 06 j 18:49	0°♄		morning max el	666 Oct 12 j 20:52	3°♄28'55	18°51'45
greatest brilliancy	665 Nov 12 j 11:11	8°♄17'59	-0.7m		666 Oct 31 j 08:47	0°♄	
desc. node	665 Nov 22 j 20:34	24°♄08'42		morning set	666 Nov 03 j 11:44	4°♄55'32	
morning set	665 Nov 23 j 22:52	25°♄50'16		desc. node	666 Nov 09 j 17:35	14°♄45'36	
	665 Nov 26 j 15:19	0°♄		max. Earth dist.	666 Nov 18 j 19:27	29°♄01'15	1.44973 AU
max. Earth dist.	665 Dec 06 j 02:43	14°♄52'28	1.44233 AU		666 Nov 19 j 10:23	0°♄	
superior conj	665 Dec 10 j 15:14	22°♄06'57	-1°41'03	superior conj	666 Nov 19 j 21:09	0°♄42'23	-1°03'46
minimum elong	665 Dec 10 j 07:35	21°♄36'06	1°40'25	minimum elong	666 Nov 19 j 13:30	0°♄12'17	1°02'52
	665 Dec 15 j 11:21	0°♄		evening rise	666 Dec 05 j 07:33	25°♄17'52	
evening rise	665 Dec 24 j 06:31	14°♄42'49			666 Dec 08 j 05:19	0°♄	
	666 Jan 02 j 08:40	0°♄		evening max el	666 Dec 26 j 05:43	26°♄32'00	18°45'27
asc. node	666 Jan 10 j 15:12	11°♄54'08		asc. node	666 Dec 28 j 12:14	28°♄33'30	
evening max el	666 Jan 11 j 18:26	13°♄07'22	18°17'20		666 Dec 31 j 03:38	0°♄	
retrograde	666 Jan 18 j 06:02	16°♄37'11		retrograde	667 Jan 01 j 23:01	0°♄18'08	
evening set	666 Jan 21 j 04:27	15°♄51'23			667 Jan 03 j 17:44	30°♄	
inferior conj	666 Jan 27 j 05:38	10°♄28'31	3°45'58	evening set	667 Jan 05 j 02:57	29°♄21'01	
minimum elong	666 Jan 27 j 04:40	10°♄31'13	3°45'54	inferior conj	667 Jan 10 j 20:46	23°♄40'36	3°30'01
min. Earth dist.	666 Jan 29 j 15:59	7°♄46'22	0.63585 AU	minimum elong	667 Jan 10 j 18:34	23°♄47'17	3°29'40
morning rise	666 Feb 02 j 04:09	4°♄25'12		min. Earth dist.	667 Jan 12 j 15:45	21°♄29'37	0.65172 AU
direct	666 Feb 09 j 03:05	1°♄38'55		morning rise	667 Jan 16 j 09:48	17°♄31'37	
desc. node	666 Feb 18 j 19:45	5°♄51'48		direct	667 Jan 23 j 02:14	14°♄39'22	
morning max el	666 Feb 22 j 21:44	9°♄31'33	27°39'23	morning max el	667 Feb 05 j 07:27	22°♄22'57	26°58'48
	666 Mar 10 j 21:32	0°♄		desc. node	667 Feb 05 j 16:48	22°♄46'36	
	666 Mar 28 j 04:42	0°♄			667 Feb 12 j 00:53	0°♄	
morning set	666 Mar 29 j 12:53	2°♄38'48			667 Mar 04 j 03:02	0°♄	
max. Earth dist.	666 Apr 03 j 17:28	13°♄18'00	1.33123 AU	morning set	667 Mar 13 j 00:49	16°♄12'45	
				max. Earth dist.	667 Mar 17 j 12:21	25°♄03'18	1.34181 AU
superior conj	666 Apr 06 j 07:23	18°♄47'13	-0°24'03		667 Mar 19 j 22:23	0°♄	
minimum elong	666 Apr 06 j 08:33	18°♄53'28	0°23'47	superior conj	667 Mar 21 j 09:44	3°♄03'44	-0°51'16
asc. node	666 Apr 08 j 14:30	23°♄43'50		minimum elong	667 Mar 21 j 12:15	3°♄16'49	0°50'47
	666 Apr 11 j 12:23	0°♄		asc. node	667 Mar 26 j 11:32	13°♄45'48	
evening rise	666 Apr 13 j 09:54	4°♄02'04		evening rise	667 Mar 28 j 20:03	18°♄42'33	
	666 Apr 27 j 13:53	0°♄			667 Apr 03 j 11:16	0°♄	
evening max el	666 May 06 j 01:46	10°♄25'18	23°03'11	evening max el	667 Apr 17 j 21:42	21°♄07'39	21°30'57
desc. node	666 May 17 j 18:57	16°♄59'25		retrograde	667 Apr 30 j 02:53	27°♄05'15	
retrograde	666 May 19 j 11:33	17°♄05'55		evening set	667 May 02 j 12:58	26°♄51'57	
evening set	666 May 22 j 23:02	16°♄39'21		desc. node	667 May 04 j 15:59	26°♄19'46	
min. Earth dist.	666 May 30 j 11:05	13°♄18'25	0.55601 AU	inferior conj	667 May 11 j 22:45	22°♄50'56	-2°03'45
inferior conj	666 Jun 01 j 03:12	12°♄20'07	-3°42'39	minimum elong	667 May 11 j 17:06	22°♄58'51	2°01'49
minimum elong	666 May 31 j 19:51	12°♄30'51	3°40'52	min. Earth dist.	667 May 11 j 23:45	22°♄49'31	0.54969 AU
morning rise	666 Jun 09 j 19:14	8°♄26'32		morning rise	667 May 20 j 21:54	18°♄52'47	
direct	666 Jun 12 j 13:39	8°♄08'19		direct	667 May 24 j 00:36	18°♄31'37	
morning max el	666 Jun 23 j 09:40	13°♄09'13	20°34'05	morning max el	667 Jun 05 j 11:25	24°♄25'01	22°03'45
asc. node	666 Jul 05 j 13:44	0°♄07'08			667 Jun 10 j 12:50	0°♄	
	666 Jul 05 j 12:09	0°♄		asc. node	667 Jun 22 j 10:46	19°♄27'08	
morning set	666 Jul 12 j 07:36	13°♄15'16		morning set	667 Jun 26 j 17:15	28°♄05'28	
					667 Jun 27 j 15:09	0°♄	
superior conj	666 Jul 19 j 21:42	28°♄53'16	1°44'29	superior conj	667 Jul 03 j 23:06	13°♄23'54	1°35'50
minimum elong	666 Jul 19 j 20:35	28°♄47'38	1°44'27	minimum elong	667 Jul 03 j 21:01	13°♄12'58	1°35'39
	666 Jul 20 j 10:50	0°♄		max. Earth dist.	667 Jul 07 j 09:01	20°♄29'08	1.34577 AU
max. Earth dist.	666 Jul 24 j 18:00	8°♄32'34	1.36104 AU	evening rise	667 Jul 12 j 00:16	29°♄43'19	
evening rise	666 Jul 28 j 18:56	16°♄12'57			667 Jul 12 j 03:43	0°♄	
	666 Aug 05 j 14:16	0°♄		desc. node	667 Jul 29 j 16:26	0°♄	
desc. node	666 Aug 13 j 18:16	13°♄01'02			667 Jul 31 j 15:17	2°♄52'15	
	666 Aug 26 j 02:40	0°♄		evening max el	667 Aug 15 j 23:45	21°♄42'38	27°00'05
evening max el	666 Sep 02 j 11:45	8°♄10'48	26°10'47	retrograde	667 Aug 29 j 04:58	29°♄00'36	
retrograde	666 Sep 15 j 02:36	15°♄20'02		evening set	667 Sep 05 j 00:59	26°♄15'46	
evening set	666 Sep 21 j 10:37	12°♄41'35					
min. Earth dist.	666 Sep 25 j 15:11	8°♄12'58	0.66483 AU				

min. Earth dist.	667 Sep 08 j 22:33	22° \mathbb{M} 23'56	0.65389 AU	max. Earth dist.	668 Jun 19 j 09:45	2° \mathbb{G} 47'59	1.33445 AU
inferior conj	667 Sep 10 j 21:29	20° \mathbb{M} 09'15	-2°27'22	evening rise	668 Jun 24 j 17:35	13° \mathbb{G} 49'45	
minimum elong	667 Sep 11 j 01:15	19° \mathbb{M} 58'25	2°25'59		668 Jul 03 j 07:20	0° \mathbb{Q}	
morning rise	667 Sep 17 j 02:12	14° \mathbb{M} 31'41		desc. node	668 Jul 17 j 12:19	22° \mathbb{Q} 10'50	
asc. node	667 Sep 18 j 09:59	14° \mathbb{M} 01'03			668 Jul 23 j 17:54	0° \mathbb{M}	
direct	667 Sep 19 j 21:08	13° \mathbb{M} 49'17		evening max el	668 Jul 28 j 11:09	4° \mathbb{M} 58'12	27°24'12
morning max el	667 Sep 26 j 10:23	17° \mathbb{M} 22'38	18°14'59	retrograde	668 Aug 11 j 01:21	12° \mathbb{M} 16'57	
	667 Oct 05 j 17:09	0° \mathbb{L}		evening set	668 Aug 18 j 05:06	9° \mathbb{M} 35'42	
morning set	667 Oct 15 j 04:55	15° \mathbb{L} 25'36		min. Earth dist.	668 Aug 21 j 21:07	6° \mathbb{M} 18'19	0.63940 AU
	667 Oct 24 j 04:15	0° \mathbb{M}		inferior conj	668 Aug 24 j 08:57	3° \mathbb{M} 42'36	-3°20'57
desc. node	667 Oct 27 j 14:34	5° \mathbb{M} 28'50		minimum elong	668 Aug 24 j 13:45	3° \mathbb{M} 30'07	3°19'30
					668 Aug 28 j 06:58	30° \mathbb{R} \mathbb{Q}	
superior conj	667 Oct 29 j 23:02	9° \mathbb{M} 12'44	-0°15'32	morning rise	668 Aug 30 j 23:24	28° \mathbb{Q} 21'04	
minimum elong	667 Oct 29 j 21:01	9° \mathbb{M} 04'46	0°15'15	direct	668 Sep 02 j 13:16	27° \mathbb{Q} 47'54	
behind sun begin	667 Oct 29 j 17:10	8° \mathbb{M} 49'34		asc. node	668 Sep 04 j 07:02	28° \mathbb{Q} 03'14	
behind sun end	667 Oct 30 j 00:52	9° \mathbb{M} 19'58			668 Sep 07 j 17:40	0° \mathbb{M}	
max. Earth dist.	667 Nov 01 j 14:01	13° \mathbb{M} 21'15	1.44985 AU	morning max el	668 Sep 09 j 02:09	1° \mathbb{M} 13'58	17°55'31
	667 Nov 12 j 05:17	0° \mathbb{J}		morning set	668 Sep 26 j 01:10	27° \mathbb{M} 14'30	
evening rise	667 Nov 15 j 09:16	4° \mathbb{J} 56'12			668 Sep 27 j 15:43	0° \mathbb{L}	
greatest brilliancy	667 Nov 27 j 05:40	23° \mathbb{J} 17'16	-0.7m				
	667 Dec 01 j 18:02	0° \mathbb{Z}		superior conj	668 Oct 08 j 17:58	18° \mathbb{L} 36'14	0°31'18
evening max el	667 Dec 09 j 13:36	9° \mathbb{Z} 59'48	19°30'29	minimum elong	668 Oct 08 j 21:17	18° \mathbb{L} 49'49	0°30'51
asc. node	667 Dec 15 j 09:16	13° \mathbb{Z} 59'54		desc. node	668 Oct 13 j 11:36	26° \mathbb{L} 15'28	
retrograde	667 Dec 16 j 19:36	14° \mathbb{Z} 11'16		max. Earth dist.	668 Oct 14 j 07:47	27° \mathbb{L} 36'04	1.44278 AU
evening set	667 Dec 20 j 06:35	13° \mathbb{Z} 01'20			668 Oct 15 j 20:01	0° \mathbb{M}	
inferior conj	667 Dec 25 j 19:25	7° \mathbb{Z} 05'56	3°01'59	evening rise	668 Oct 24 j 19:01	13° \mathbb{M} 59'00	
minimum elong	667 Dec 25 j 16:42	7° \mathbb{Z} 14'45	3°01'19		668 Nov 04 j 08:06	0° \mathbb{J}	
min. Earth dist.	667 Dec 26 j 23:55	5° \mathbb{Z} 33'08	0.66368 AU	evening max el	668 Nov 21 j 16:27	23° \mathbb{J} 28'42	20°30'13
morning rise	667 Dec 31 j 02:35	0° \mathbb{Z} 53'51		retrograde	668 Nov 29 j 17:17	28° \mathbb{J} 12'59	
	668 Jan 01 j 04:47	30° \mathbb{R} \mathbb{J}		asc. node	668 Dec 01 j 06:19	27° \mathbb{J} 59'31	
direct	668 Jan 06 j 07:26	28° \mathbb{J} 08'50		evening set	668 Dec 03 j 13:11	26° \mathbb{J} 48'21	
	668 Jan 12 j 00:40	0° \mathbb{Z}		inferior conj	668 Dec 08 j 23:00	20° \mathbb{J} 40'46	2°24'52
morning max el	668 Jan 18 j 16:40	5° \mathbb{Z} 29'43	25°52'39	minimum elong	668 Dec 08 j 20:21	20° \mathbb{J} 49'43	2°24'02
desc. node	668 Jan 23 j 13:50	10° \mathbb{Z} 53'08		min. Earth dist.	668 Dec 09 j 14:30	19° \mathbb{J} 48'07	0.67177 AU
	668 Feb 06 j 14:22	0° \mathbb{X}		morning rise	668 Dec 14 j 03:21	14° \mathbb{J} 27'35	
morning set	668 Feb 23 j 22:40	29° \mathbb{X} 00'26		direct	668 Dec 19 j 17:49	11° \mathbb{J} 59'06	
	668 Feb 24 j 11:34	0° \mathbb{X}		morning max el	668 Dec 31 j 00:58	18° \mathbb{J} 43'19	24°30'29
max. Earth dist.	668 Feb 27 j 19:20	6° \mathbb{X} 16'18	1.35693 AU	desc. node	669 Jan 09 j 10:51	29° \mathbb{J} 50'24	
					669 Jan 09 j 13:46	0° \mathbb{Z}	
superior conj	668 Mar 04 j 04:32	16° \mathbb{X} 53'13	-1°17'18		669 Jan 29 j 16:56	0° \mathbb{X}	
minimum elong	668 Mar 04 j 08:08	17° \mathbb{X} 11'23	1°16'45	morning set	669 Feb 05 j 00:48	10° \mathbb{X} 45'14	
	668 Mar 10 j 14:11	0° \mathbb{Y}		max. Earth dist.	669 Feb 08 j 16:56	17° \mathbb{X} 18'30	1.37607 AU
evening rise	668 Mar 12 j 02:40	3° \mathbb{Y} 06'59			669 Feb 15 j 11:16	0° \mathbb{X}	
asc. node	668 Mar 12 j 08:35	3° \mathbb{Y} 37'09					
	668 Mar 27 j 22:27	0° \mathbb{B}		superior conj	669 Feb 15 j 12:26	0° \mathbb{X} 05'35	-1°40'06
evening max el	668 Mar 30 j 04:22	2° \mathbb{B} 23'14	20°12'04	minimum elong	669 Feb 15 j 16:26	0° \mathbb{X} 24'56	1°39'40
retrograde	668 Apr 09 j 16:59	7° \mathbb{B} 27'12		evening rise	669 Feb 24 j 03:21	17° \mathbb{X} 07'41	
evening set	668 Apr 11 j 18:54	7° \mathbb{B} 16'12		asc. node	669 Feb 27 j 05:39	23° \mathbb{X} 12'10	
inferior conj	668 Apr 20 j 19:09	3° \mathbb{B} 17'46	-0°04'24		669 Mar 02 j 21:00	0° \mathbb{Y}	
minimum elong	668 Apr 20 j 18:57	3° \mathbb{B} 18'04	0°04'21	evening max el	669 Mar 12 j 22:10	14° \mathbb{Y} 16'38	19°11'33
transit middle	668 Apr 20 j 18:57	3° \mathbb{B} 18'04	0°04'21	retrograde	669 Mar 21 j 19:01	18° \mathbb{Y} 33'17	
transit begin	668 Apr 20 j 15:05	3° \mathbb{B} 23'48		evening set	669 Mar 23 j 23:30	18° \mathbb{Y} 18'48	
transit end	668 Apr 20 j 22:49	3° \mathbb{B} 12'19		inferior conj	669 Apr 01 j 05:36	14° \mathbb{Y} 07'55	1°41'45
desc. node	668 Apr 20 j 13:02	3° \mathbb{B} 26'50		minimum elong	669 Apr 01 j 09:17	14° \mathbb{Y} 01'40	1°40'35
min. Earth dist.	668 Apr 22 j 13:25	2° \mathbb{B} 15'08	0.55301 AU	min. Earth dist.	669 Apr 04 j 04:28	12° \mathbb{Y} 08'44	0.56518 AU
	668 Apr 26 j 19:41	30° \mathbb{R} \mathbb{Y}		desc. node	669 Apr 07 j 10:05	10° \mathbb{Y} 14'11	
morning rise	668 Apr 29 j 17:14	28° \mathbb{Y} 56'45		morning rise	669 Apr 09 j 16:10	9° \mathbb{Y} 13'55	
direct	668 May 03 j 13:47	28° \mathbb{Y} 24'18		direct	669 Apr 14 j 14:07	8° \mathbb{Y} 17'55	
	668 May 10 j 02:41	0° \mathbb{B}		morning max el	669 Apr 28 j 19:16	15° \mathbb{Y} 34'50	25°22'32
morning max el	668 May 17 j 04:46	5° \mathbb{B} 06'23	23°44'05		669 May 10 j 09:08	0° \mathbb{B}	
	668 Jun 03 j 16:08	0° \mathbb{I}		morning set	669 May 25 j 16:43	28° \mathbb{B} 00'18	
asc. node	668 Jun 08 j 07:49	9° \mathbb{I} 08'38		asc. node	669 May 26 j 04:53	29° \mathbb{B} 04'36	
morning set	668 Jun 10 j 04:52	13° \mathbb{I} 02'40			669 May 26 j 15:19	0° \mathbb{I}	
superior conj	668 Jun 17 j 06:06	28° \mathbb{I} 11'33	1°21'54	superior conj	669 Jun 01 j 16:23	13° \mathbb{I} 07'43	1°03'43
minimum elong	668 Jun 17 j 03:39	27° \mathbb{I} 58'20	1°21'34	minimum elong	669 Jun 01 j 14:04	12° \mathbb{I} 55'04	1°03'17
	668 Jun 18 j 02:17	0° \mathbb{G}		max. Earth dist.	669 Jun 02 j 17:53	15° \mathbb{I} 26'51	1.32700 AU

evening rise	669 Jun 08 j 19:11	28° Π 20'05		max. Earth dist.	670 May 17 j 05:58	28° \mathcal{B} 16'39	1.32325 AU
	669 Jun 09 j 14:41	0° \mathfrak{E}			670 May 18 j 00:47	0° Π	
	669 Jun 26 j 13:01	0° \mathcal{Q}		evening rise	670 May 24 j 02:19	13° Π 05'25	
desc. node	669 Jul 04 j 09:22	10° \mathcal{Q} 42'17			670 Jun 01 j 17:16	0° \mathfrak{E}	
evening max el	669 Jul 10 j 19:23	17° \mathcal{Q} 42'45	27°17'38	desc. node	670 Jun 21 j 06:24	28° \mathfrak{E} 07'04	
retrograde	669 Jul 24 j 15:04	24° \mathcal{Q} 59'17		evening max el	670 Jun 22 j 21:47	29° \mathfrak{E} 44'48	26°38'00
evening set	669 Jul 31 j 19:09	22° \mathcal{Q} 34'15			670 Jun 23 j 04:14	0° \mathcal{Q}	
min. Earth dist.	669 Aug 04 j 09:16	19° \mathcal{Q} 44'00	0.62155 AU	retrograde	670 Jul 06 j 21:15	6° \mathcal{Q} 59'06	
inferior conj	669 Aug 07 j 09:11	16° \mathcal{Q} 57'42	-4°07'29	evening set	670 Jul 13 j 14:38	5° \mathcal{Q} 03'33	
minimum elong	669 Aug 07 j 14:01	16° \mathcal{Q} 46'31	4°06'27	min. Earth dist.	670 Jul 17 j 11:11	2° \mathcal{Q} 26'19	0.60135 AU
morning rise	669 Aug 14 j 10:17	11° \mathcal{Q} 55'48			670 Jul 20 j 11:40	30° $\mathcal{R}\mathfrak{E}$	
direct	669 Aug 16 j 21:39	11° \mathcal{Q} 28'58		inferior conj	670 Jul 20 j 18:42	29° \mathfrak{E} 45'40	-4°40'15
asc. node	669 Aug 22 j 04:05	13° \mathcal{Q} 33'56		minimum elong	670 Jul 20 j 21:47	29° \mathfrak{E} 39'25	4°39'56
morning max el	669 Aug 23 j 17:19	14° \mathcal{Q} 55'58	17°54'19	morning rise	670 Jul 28 j 06:54	25° \mathfrak{E} 06'02	
	669 Sep 03 j 03:06	0° \mathfrak{M}		direct	670 Jul 30 j 18:04	24° \mathfrak{E} 43'26	
morning set	669 Sep 08 j 18:26	10° \mathfrak{M} 03'43		morning max el	670 Aug 07 j 04:49	28° \mathfrak{E} 20'52	18°12'22
					670 Aug 08 j 18:33	0° \mathcal{Q}	
superior conj	669 Sep 19 j 15:56	29° \mathfrak{M} 20'12	1°07'52	asc. node	670 Aug 09 j 01:08	0° \mathcal{Q} 19'02	
minimum elong	669 Sep 19 j 20:47	29° \mathfrak{M} 40'58	1°07'17	morning set	670 Aug 23 j 02:53	23° \mathcal{Q} 36'27	
	669 Sep 20 j 01:14	0° \mathfrak{L}			670 Aug 26 j 12:15	0° \mathfrak{M}	
max. Earth dist.	669 Sep 26 j 21:57	11° \mathfrak{L} 28'09	1.42933 AU	superior conj	670 Sep 01 j 15:28	11° \mathfrak{M} 19'46	1°31'43
desc. node	669 Sep 30 j 08:40	17° \mathfrak{L} 02'24		minimum elong	670 Sep 01 j 19:08	11° \mathfrak{M} 36'19	1°31'24
evening rise	669 Oct 04 j 04:41	23° \mathfrak{L} 06'24		max. Earth dist.	670 Sep 09 j 06:15	24° \mathfrak{M} 40'08	1.41129 AU
	669 Oct 08 j 15:36	0° \mathfrak{M}			670 Sep 12 j 10:43	0° \mathfrak{L}	
	669 Oct 29 j 13:52	0° \mathfrak{X}		evening rise	670 Sep 14 j 06:30	2° \mathfrak{L} 59'26	
evening max el	669 Nov 04 j 13:34	6° \mathfrak{X} 58'25	21°41'28	desc. node	670 Sep 17 j 05:42	7° \mathfrak{L} 45'43	
retrograde	669 Nov 13 j 14:10	12° \mathfrak{X} 20'32			670 Oct 02 j 00:16	0° \mathfrak{M}	
evening set	669 Nov 17 j 20:54	10° \mathfrak{X} 39'33		evening max el	670 Oct 18 j 05:27	20° \mathfrak{M} 29'13	23°00'00
asc. node	669 Nov 18 j 03:21	10° \mathfrak{X} 26'20		retrograde	670 Oct 28 j 08:42	26° \mathfrak{M} 30'09	
inferior conj	669 Nov 23 j 05:22	4° \mathfrak{X} 23'04	1°40'48	evening set	670 Nov 02 j 04:03	24° \mathfrak{M} 31'45	
minimum elong	669 Nov 23 j 03:16	4° \mathfrak{X} 30'20	1°40'01	asc. node	670 Nov 05 j 00:23	21° \mathfrak{M} 31'17	
min. Earth dist.	669 Nov 23 j 09:19	4° \mathfrak{X} 09'26	0.67619 AU	min. Earth dist.	670 Nov 07 j 05:56	18° \mathfrak{M} 33'14	0.67721 AU
	669 Nov 26 j 14:09	30° $\mathcal{R}\mathfrak{M}$		inferior conj	670 Nov 07 j 12:38	18° \mathfrak{M} 10'09	0°51'22
morning rise	669 Nov 28 j 09:29	28° \mathfrak{M} 10'33		minimum elong	670 Nov 07 j 11:27	18° \mathfrak{M} 14'11	0°50'53
direct	669 Dec 03 j 08:41	26° \mathfrak{M} 03'39		morning rise	670 Nov 12 j 18:46	12° \mathfrak{M} 00'22	
	669 Dec 11 j 06:39	0° \mathfrak{X}		direct	670 Nov 17 j 03:17	10° \mathfrak{M} 16'11	
morning max el	669 Dec 13 j 10:29	2° \mathfrak{X} 02'31	23°02'27	morning max el	670 Nov 26 j 00:28	15° \mathfrak{M} 28'55	21°37'24
desc. node	669 Dec 27 j 07:53	19° \mathfrak{X} 24'09			670 Dec 07 j 15:58	0° \mathfrak{X}	
	670 Jan 03 j 14:49	0° \mathfrak{Z}		desc. node	670 Dec 14 j 04:55	9° \mathfrak{X} 23'42	
morning set	670 Jan 17 j 01:01	21° \mathfrak{Z} 11'57		morning set	670 Dec 27 j 20:02	0° \mathfrak{Z} 15'20	
max. Earth dist.	670 Jan 21 j 12:24	28° \mathfrak{Z} 46'42	1.39732 AU		670 Dec 27 j 16:10	0° \mathfrak{Z}	
	670 Jan 22 j 05:20	0° \approx		max. Earth dist.	671 Jan 03 j 12:10	11° \mathfrak{Z} 04'12	1.41791 AU
superior conj	670 Jan 29 j 05:12	12° \approx 30'13	-1°56'41	superior conj	671 Jan 11 j 01:35	23° \mathfrak{Z} 54'08	-2°03'02
minimum elong	670 Jan 29 j 08:12	12° \approx 44'02	1°56'31	minimum elong	671 Jan 11 j 01:26	23° \mathfrak{Z} 53'26	2°03'01
	670 Feb 07 j 11:26	0° \mathfrak{X}			671 Jan 14 j 12:39	0° \approx	
evening rise	670 Feb 07 j 19:17	0° \mathfrak{X} 37'37		evening rise	671 Jan 21 j 22:53	13° \approx 28'10	
asc. node	670 Feb 14 j 02:42	12° \mathfrak{X} 25'03			671 Jan 31 j 06:45	0° \mathfrak{X}	
evening max el	670 Feb 24 j 01:06	26° \mathfrak{X} 43'55	18°30'59	asc. node	671 Jan 31 j 23:44	1° \mathfrak{X} 08'09	
	670 Feb 28 j 23:02	0° \mathfrak{Y}		evening max el	671 Feb 07 j 10:07	9° \mathfrak{X} 36'54	18°10'28
retrograde	670 Mar 03 j 15:48	0° \mathfrak{Y} 28'05		retrograde	671 Feb 14 j 06:11	13° \mathfrak{X} 04'24	
evening set	670 Mar 06 j 01:33	0° \mathfrak{Y} 06'53		evening set	671 Feb 16 j 21:04	12° \mathfrak{X} 34'32	
	670 Mar 06 j 10:28	30° $\mathcal{R}\mathfrak{X}$		inferior conj	671 Feb 23 j 16:13	7° \mathfrak{X} 43'36	3°35'13
inferior conj	670 Mar 13 j 12:44	25° \mathfrak{X} 36'46	2°55'21	minimum elong	671 Feb 23 j 18:24	7° \mathfrak{X} 38'33	3°34'59
minimum elong	670 Mar 13 j 16:43	25° \mathfrak{X} 28'50	2°54'28	min. Earth dist.	671 Feb 26 j 23:10	4° \mathfrak{X} 43'19	0.60455 AU
min. Earth dist.	670 Mar 16 j 22:51	22° \mathfrak{X} 55'24	0.58351 AU	morning rise	671 Mar 02 j 13:47	1° \mathfrak{X} 57'51	
morning rise	670 Mar 21 j 05:07	20° \mathfrak{X} 12'06			671 Mar 07 j 08:27	30° $\mathcal{R}\approx$	
desc. node	670 Mar 25 j 07:06	18° \mathfrak{X} 50'17		direct	671 Mar 09 j 06:14	29° \approx 49'40	
direct	670 Mar 27 j 04:05	18° \mathfrak{X} 41'14			671 Mar 11 j 04:51	0° \mathfrak{X}	
morning max el	670 Apr 10 j 12:53	26° \mathfrak{X} 19'31	26°43'31	desc. node	671 Mar 12 j 04:07	0° \mathfrak{X} 12'39	
	670 Apr 14 j 00:15	0° \mathfrak{Y}		morning max el	671 Mar 23 j 12:28	7° \mathfrak{X} 39'37	27°34'05
	670 May 03 j 16:21	0° \mathfrak{Z}			671 Apr 09 j 11:18	0° \mathfrak{Y}	
morning set	670 May 10 j 03:11	12° \mathfrak{Z} 52'49		morning set	671 Apr 24 j 10:28	27° \mathfrak{Y} 33'46	
asc. node	670 May 13 j 01:57	19° \mathfrak{Z} 09'56			671 Apr 25 j 14:32	0° \mathfrak{Z}	
superior conj	670 May 17 j 04:04	28° \mathfrak{Z} 06'13	0°42'05	asc. node	671 Apr 29 j 23:02	9° \mathfrak{Z} 19'56	
minimum elong	670 May 17 j 02:20	27° \mathfrak{Z} 56'40	0°41'43	max. Earth dist.	671 Apr 30 j 18:09	11° \mathfrak{Z} 04'16	1.32318 AU

superior conj	671 May 01 j 15:28	13°♄01'02	0°17'46	superior conj	672 Apr 15 j 00:52	27°♄45'54	-0°08'27
minimum elong	671 May 01 j 14:40	12°♄56'39	0°17'36	minimum elong	672 Apr 15 j 01:16	27°♄48'04	0°08'21
evening rise	671 May 08 j 12:44	27°♄58'10		behind sun begin	672 Apr 14 j 20:50	27°♄24'02	
	671 May 09 j 11:54	0°♄		behind sun end	672 Apr 15 j 05:43	28°♄12'08	
	671 May 26 j 10:59	0°♄		asc. node	672 Apr 15 j 20:03	29°♄29'58	
evening max el	671 Jun 04 j 17:17	11°♄01'35	25°28'26		672 Apr 16 j 01:35	0°♄	
desc. node	671 Jun 08 j 03:24	13°♄58'09		evening rise	672 Apr 22 j 00:29	12°♄51'12	
retrograde	671 Jun 18 j 18:12	18°♄11'33			672 Apr 30 j 17:21	0°♄	
evening set	671 Jun 24 j 11:32	16°♄54'42		evening max el	672 May 16 j 08:01	21°♄43'24	23°58'33
min. Earth dist.	671 Jun 29 j 05:21	14°♄12'07	0.58090 AU	desc. node	672 May 25 j 00:26	27°♄39'44	
inferior conj	671 Jul 02 j 10:04	11°♄57'36	-4°48'56	retrograde	672 May 30 j 03:07	28°♄39'07	
minimum elong	671 Jul 02 j 09:09	11°♄59'13	4°48'55	evening set	672 Jun 03 j 10:17	27°♄58'15	
morning rise	671 Jul 10 j 09:20	7°♄40'18		min. Earth dist.	672 Jun 09 j 19:00	24°♄54'48	0.56337 AU
direct	671 Jul 12 j 22:10	7°♄20'27		inferior conj	672 Jun 12 j 05:10	23°♄25'22	-4°20'17
morning max el	671 Jul 21 j 09:35	11°♄20'01	18°50'48	minimum elong	672 Jun 11 j 23:24	23°♄34'17	4°19'19
asc. node	671 Jul 26 j 22:12	18°♄03'43		morning rise	672 Jun 20 j 15:16	19°♄25'49	
	671 Aug 02 j 22:20	0°♄		direct	672 Jun 23 j 07:14	19°♄07'23	
morning set	671 Aug 06 j 22:10	7°♄41'36		morning max el	672 Jul 03 j 04:40	23°♄42'32	19°50'26
					672 Jul 08 j 13:58	0°♄	
superior conj	671 Aug 15 j 11:15	24°♄20'04	1°43'54	asc. node	672 Jul 12 j 19:16	6°♄33'34	
minimum elong	671 Aug 15 j 12:52	24°♄27'44	1°43'51	morning set	672 Jul 21 j 00:56	22°♄09'30	
	671 Aug 18 j 11:40	0°♄			672 Jul 24 j 21:35	0°♄	
max. Earth dist.	671 Aug 22 j 09:53	7°♄07'53	1.39116 AU	superior conj	672 Jul 28 j 21:47	8°♄04'46	1°46'32
evening rise	671 Aug 26 j 08:34	14°♄01'04		minimum elong	672 Jul 28 j 21:31	8°♄03'26	1°46'32
desc. node	671 Sep 04 j 02:43	28°♄21'53		max. Earth dist.	672 Aug 03 j 13:59	19°♄05'11	1.37143 AU
	671 Sep 05 j 03:51	0°♄		evening rise	672 Aug 07 j 10:04	26°♄09'26	
	671 Sep 26 j 23:04	0°♄			672 Aug 09 j 13:53	0°♄	
evening max el	671 Sep 30 j 18:08	4°♄03'48	24°19'51	desc. node	672 Aug 20 j 23:45	18°♄45'35	
retrograde	671 Oct 11 j 23:38	10°♄38'33			672 Aug 28 j 15:54	0°♄	
evening set	671 Oct 17 j 08:59	8°♄22'52		evening max el	672 Sep 12 j 05:56	17°♄41'51	25°33'53
min. Earth dist.	671 Oct 22 j 01:59	2°♄57'37	0.67502 AU	retrograde	672 Sep 24 j 10:01	24°♄40'52	
inferior conj	671 Oct 22 j 19:03	2°♄00'13	-0°02'01	evening set	672 Sep 30 j 09:55	22°♄09'46	
minimum elong	671 Oct 22 j 19:06	2°♄00'03	0°02'01	min. Earth dist.	672 Oct 04 j 18:58	17°♄19'53	0.66958 AU
transit middle	671 Oct 22 j 19:06	2°♄00'03	0°02'01	inferior conj	672 Oct 05 j 22:51	15°♄50'20	-0°58'01
transit begin	671 Oct 22 j 16:23	2°♄09'11		minimum elong	672 Oct 06 j 00:20	15°♄45'35	0°57'24
transit end	671 Oct 22 j 21:49	1°♄50'56		asc. node	672 Oct 08 j 18:26	12°♄25'03	
asc. node	671 Oct 22 j 21:24	1°♄52'19		morning rise	672 Oct 11 j 14:57	9°♄53'49	
	671 Oct 24 j 07:26	30°♄		direct	672 Oct 14 j 23:04	8°♄49'25	
morning rise	671 Oct 28 j 05:14	25°♄55'38		morning max el	672 Oct 22 j 02:10	12°♄51'01	19°20'10
direct	671 Nov 01 j 00:33	24°♄32'48			672 Nov 03 j 20:26	0°♄	
morning max el	671 Nov 08 j 21:30	29°♄05'13	20°21'57	morning set	672 Nov 14 j 19:22	16°♄52'24	
	671 Nov 09 j 18:31	0°♄		desc. node	672 Nov 16 j 23:00	20°♄13'15	
desc. node	671 Dec 01 j 01:58	29°♄41'59			672 Nov 23 j 05:19	0°♄	
	671 Dec 01 j 06:42	0°♄		max. Earth dist.	672 Nov 28 j 09:50	8°♄09'38	1.44640 AU
morning set	671 Dec 06 j 18:22	8°♄25'33		superior conj	672 Dec 01 j 13:50	13°♄10'59	-1°27'13
max. Earth dist.	671 Dec 16 j 19:25	24°♄15'21	1.43503 AU	minimum elong	672 Dec 01 j 05:21	12°♄37'13	1°26'24
	671 Dec 20 j 08:31	0°♄			672 Dec 11 j 23:33	0°♄	
superior conj	671 Dec 22 j 20:43	4°♄07'22	-1°54'22	evening rise	672 Dec 16 j 00:26	6°♄39'55	
minimum elong	671 Dec 22 j 15:33	3°♄46'01	1°54'04		672 Dec 30 j 12:11	0°♄	
evening rise	672 Jan 04 j 10:02	25°♄31'25		evening max el	673 Jan 04 j 10:38	6°♄09'27	18°27'12
	672 Jan 06 j 23:33	0°♄		asc. node	673 Jan 04 j 17:45	6°♄27'15	
asc. node	672 Jan 18 j 20:44	19°♄12'41		retrograde	673 Jan 10 j 23:32	9°♄44'33	
evening max el	672 Jan 21 j 22:14	22°♄47'47	18°09'27	evening set	673 Jan 14 j 00:16	8°♄53'58	
retrograde	672 Jan 28 j 10:11	26°♄12'53		inferior conj	673 Jan 19 j 21:59	3°♄23'27	3°40'53
evening set	672 Jan 31 j 05:51	25°♄33'08		minimum elong	673 Jan 19 j 20:25	3°♄28'01	3°40'43
inferior conj	672 Feb 06 j 12:38	20°♄21'42	3°47'59	min. Earth dist.	673 Jan 22 j 01:48	0°♄53'24	0.64311 AU
minimum elong	672 Feb 06 j 12:41	20°♄21'34	3°47'59		673 Jan 22 j 21:02	30°♄	
min. Earth dist.	672 Feb 09 j 07:43	17°♄27'08	0.62518 AU	morning rise	673 Jan 25 j 16:02	27°♄17'38	
morning rise	672 Feb 12 j 18:25	14°♄23'23		direct	673 Feb 01 j 13:08	24°♄27'01	
direct	672 Feb 19 j 17:57	11°♄46'42		desc. node	673 Feb 12 j 22:12	0°♄12'30	
desc. node	672 Feb 27 j 01:09	14°♄11'39			673 Feb 12 j 16:34	0°♄	
morning max el	672 Mar 04 j 17:39	19°♄40'21	27°47'54	morning max el	673 Feb 15 j 02:26	2°♄16'28	27°25'47
	672 Mar 13 j 13:32	0°♄			673 Mar 07 j 19:21	0°♄	
	672 Apr 01 j 08:59	0°♄		morning set	673 Mar 22 j 06:26	25°♄50'01	
morning set	672 Apr 07 j 12:25	11°♄55'34			673 Mar 24 j 08:41	0°♄	
max. Earth dist.	672 Apr 13 j 02:35	23°♄36'20	1.32706 AU				

max. Earth dist.	673 Mar 27 j 03:32	5° Υ 41'42	1.33519 AU		674 Feb 28 j 14:02	0° H	
				morning set	674 Mar 05 j 12:56	9° H 05'31	
superior conj	673 Mar 30 j 06:26	12° Υ 14'59	-0°35'37	max. Earth dist.	674 Mar 09 j 17:43	17° H 13'19	1.34776 AU
minimum elong	673 Mar 30 j 08:11	12° Υ 24'13	0°35'15				
asc. node	673 Apr 02 j 17:06	19° Υ 36'18		superior conj	674 Mar 14 j 05:54	26° H 20'30	-1°02'33
evening rise	673 Apr 06 j 11:48	27° Υ 38'29		minimum elong	674 Mar 14 j 08:55	26° H 36'04	1°02'01
	673 Apr 07 j 14:55	0° B			674 Mar 16 j 00:16	0° Υ	
	673 Apr 25 j 19:29	0° II		asc. node	674 Mar 20 j 14:08	9° Υ 34'03	
evening max el	673 Apr 27 j 23:59	2° II 16'39	22°22'54	evening rise	674 Mar 21 j 20:43	12° Υ 12'51	
retrograde	673 May 10 j 23:12	8° II 40'29			674 Mar 31 j 03:59	0° B	
desc. node	673 May 11 j 21:26	8° II 38'33		evening max el	674 Apr 09 j 23:57	13° B 10'07	20°55'14
evening set	673 May 13 j 22:07	8° II 21'15		retrograde	674 Apr 21 j 12:28	18° B 45'30	
min. Earth dist.	673 May 22 j 07:07	4° II 44'51	0.55223 AU	evening set	674 Apr 23 j 17:20	18° B 34'01	
inferior conj	673 May 23 j 06:39	4° II 11'35	-3°05'14	desc. node	674 Apr 28 j 18:27	16° B 52'24	
minimum elong	673 May 22 j 23:17	4° II 22'00	3°03'06	inferior conj	674 May 03 j 00:36	14° B 35'48	-1°13'29
morning rise	673 Jun 01 j 02:21	0° II 18'26		minimum elong	674 May 02 j 21:07	14° B 40'45	1°12'14
	673 Jun 03 j 11:56	30° R B		min. Earth dist.	674 May 03 j 19:48	14° B 08'33	0.54995 AU
direct	673 Jun 03 j 23:45	29° B 59'26		morning rise	674 May 12 j 00:37	10° B 30'20	
	673 Jun 04 j 11:30	0° II		direct	674 May 15 j 09:36	10° B 05'47	
morning max el	673 Jun 15 j 12:28	5° II 21'53	21°10'19	morning max el	674 May 28 j 10:05	16° B 20'24	22°45'55
asc. node	673 Jun 29 j 16:20	25° II 37'45			674 Jun 08 j 04:20	0° II	
	673 Jul 01 j 22:54	0° B		asc. node	674 Jun 16 j 13:24	15° II 07'25	
morning set	673 Jul 05 j 08:41	6° B 53'16		morning set	674 Jun 19 j 19:23	21° II 46'50	
					674 Jun 23 j 16:17	0° B	
superior conj	673 Jul 12 j 18:45	22° B 21'20	1°41'32				
minimum elong	673 Jul 12 j 17:09	22° B 13'05	1°41'27	superior conj	674 Jun 26 j 22:50	6° B 59'47	1°30'31
	673 Jul 16 j 12:55	0° B		minimum elong	674 Jun 26 j 20:32	6° B 47'31	1°30'15
max. Earth dist.	673 Jul 17 j 00:14	0° B 56'24	1.35414 AU	max. Earth dist.	674 Jun 29 j 19:31	13° B 01'28	1.34042 AU
evening rise	673 Jul 21 j 06:37	9° B 13'13		evening rise	674 Jul 04 j 17:30	22° B 59'36	
	673 Aug 02 j 03:40	0° B			674 Jul 08 j 09:03	0° B	
desc. node	673 Aug 07 j 20:46	8° B 50'46		desc. node	674 Jul 25 j 17:47	28° B 29'22	
	673 Aug 24 j 10:21	0° B			674 Jul 26 j 19:45	0° B	
evening max el	673 Aug 25 j 17:55	1° B 18'23	26°34'22	evening max el	674 Aug 08 j 05:45	14° B 44'16	27°13'46
retrograde	673 Sep 07 j 15:14	8° B 31'32		retrograde	674 Aug 21 j 15:05	22° B 03'17	
evening set	673 Sep 14 j 04:50	5° B 49'29		evening set	674 Aug 28 j 15:17	19° B 18'14	
min. Earth dist.	673 Sep 18 j 06:25	1° B 36'36	0.66069 AU	min. Earth dist.	674 Sep 01 j 10:07	15° B 41'58	0.64815 AU
inferior conj	673 Sep 19 j 22:07	29° B 37'21	-1°54'58	inferior conj	674 Sep 03 j 14:38	13° B 17'11	-2°50'40
minimum elong	673 Sep 20 j 01:05	29° B 28'24	1°53'47	minimum elong	674 Sep 03 j 18:55	13° B 05'21	2°49'12
	673 Sep 19 j 14:36	30° R B		morning rise	674 Sep 09 j 23:23	7° B 46'20	
morning rise	673 Sep 25 j 21:48	23° B 52'03		direct	674 Sep 12 j 15:53	7° B 08'16	
asc. node	673 Sep 25 j 15:30	24° B 01'06		asc. node	674 Sep 12 j 12:34	7° B 08'22	
direct	673 Sep 28 j 20:56	23° B 02'37		morning max el	674 Sep 19 j 04:06	10° B 37'16	18°04'39
morning max el	673 Oct 05 j 13:10	26° B 43'18	18°34'02		674 Oct 02 j 11:26	0° B	
	673 Oct 08 j 10:02	0° B		morning set	674 Oct 07 j 01:17	7° B 39'13	
morning set	673 Oct 25 j 19:53	26° B 33'10					
	673 Oct 27 j 23:37	0° B		superior conj	674 Oct 20 j 22:23	0° B 23'55	0°05'12
desc. node	673 Nov 03 j 20:02	10° B 53'08		minimum elong	674 Oct 20 j 23:01	0° B 26'28	0°05'07
				behind sun begin	674 Oct 20 j 12:50	29° B 45'42	
superior conj	673 Nov 10 j 15:14	21° B 35'58	-0°43'55	behind sun end	674 Oct 21 j 09:13	1° B 07'10	
minimum elong	673 Nov 10 j 09:34	21° B 13'42	0°43'11		674 Oct 20 j 16:25	0° B	
max. Earth dist.	673 Nov 11 j 04:20	22° B 27'29	1.45075 AU	desc. node	674 Oct 21 j 17:04	1° B 38'30	
	673 Nov 15 j 23:31	0° B		max. Earth dist.	674 Oct 24 j 23:15	6° B 48'49	1.44767 AU
evening rise	673 Nov 26 j 15:18	16° B 49'58		evening rise	674 Nov 06 j 08:57	26° B 10'17	
	673 Dec 04 j 22:30	0° B			674 Nov 08 j 20:28	0° B	
greatest brilliancy	673 Dec 05 j 11:13	0° B 50'01	-0.8m	greatest brilliancy	674 Nov 19 j 22:42	16° B 53'17	-0.7m
evening max el	673 Dec 18 j 20:43	19° B 35'39	19°02'38		674 Nov 29 j 09:32	0° B	
asc. node	673 Dec 22 j 14:47	22° B 37'27		evening max el	674 Dec 02 j 02:34	3° B 03'58	19°54'08
retrograde	673 Dec 25 j 18:28	23° B 31'24		asc. node	674 Dec 09 j 11:50	7° B 28'49	
evening set	673 Dec 29 j 01:17	22° B 28'51		retrograde	674 Dec 09 j 15:57	7° B 28'59	
inferior conj	674 Jan 03 j 16:41	16° B 41'30	3°19'22	evening set	674 Dec 13 j 06:28	6° B 12'59	
minimum elong	674 Jan 03 j 14:12	16° B 49'19	3°18'53	inferior conj	674 Dec 18 j 17:46	0° B 11'44	2°47'13
min. Earth dist.	674 Jan 05 j 05:13	14° B 46'37	0.65731 AU	minimum elong	674 Dec 18 j 15:02	0° B 20'52	2°46'27
morning rise	674 Jan 09 j 02:50	10° B 31'04			674 Dec 18 j 21:18	30° R B	
direct	674 Jan 15 j 14:45	7° B 40'51		min. Earth dist.	674 Dec 19 j 16:30	28° B 56'08	0.66758 AU
morning max el	674 Jan 28 j 12:13	15° B 15'52	26°33'19	morning rise	674 Dec 23 j 23:23	23° B 58'46	
desc. node	674 Jan 30 j 19:14	17° B 40'39		direct	674 Dec 29 j 22:11	21° B 20'07	
	674 Feb 09 j 15:19	0° B		morning max el	675 Jan 10 j 21:15	28° B 27'20	25°19'01

	675 Jan 12 j 08:53	0°♄		desc. node	676 Jan 04 j 13:19	25°♄25'18	
desc. node	675 Jan 17 j 16:17	6°♄11'00			676 Jan 07 j 20:41	0°♄	
	675 Feb 03 j 09:42	0°♄			676 Jan 27 j 04:55	0°♄	
morning set	675 Feb 16 j 03:10	21°♄28'29		morning set	676 Jan 28 j 19:04	2°♄42'16	
max. Earth dist.	675 Feb 19 j 20:18	28°♄18'31	1.36471 AU	max. Earth dist.	676 Feb 01 j 15:29	9°♄25'18	1.38498 AU
	675 Feb 20 j 17:50	0°♄					
				superior conj	676 Feb 08 j 22:32	22°♄48'28	-1°48'07
superior conj	675 Feb 25 j 20:28	9°♄54'49	-1°27'32	minimum elong	676 Feb 09 j 02:20	23°♄06'28	1°47'48
minimum elong	675 Feb 26 j 00:22	10°♄14'09	1°27'00		676 Feb 12 j 16:29	0°♄	
evening rise	675 Mar 06 j 01:07	26°♄27'44		evening rise	676 Feb 17 j 22:29	10°♄16'16	
asc. node	675 Mar 07 j 11:10	29°♄18'45		asc. node	676 Feb 22 j 08:13	18°♄45'09	
	675 Mar 07 j 19:27	0°♄			676 Feb 28 j 21:42	0°♄	
evening max el	675 Mar 23 j 11:22	24°♄41'00	19°43'50	evening max el	676 Mar 05 j 09:31	6°♄50'30	18°51'52
retrograde	675 Apr 02 j 06:36	29°♄23'49		retrograde	676 Mar 13 j 16:09	10°♄51'02	
evening set	675 Apr 04 j 08:37	29°♄11'58		evening set	676 Mar 15 j 22:45	10°♄34'05	
inferior conj	675 Apr 13 j 01:40	25°♄09'30	0°43'54	inferior conj	676 Mar 23 j 20:39	6°♄15'54	2°17'18
minimum elong	675 Apr 13 j 03:32	25°♄06'34	0°43'15	minimum elong	676 Mar 24 j 00:52	6°♄08'17	2°16'08
min. Earth dist.	675 Apr 15 j 10:06	23°♄41'35	0.55721 AU	min. Earth dist.	676 Mar 27 j 02:37	3°♄56'03	0.57241 AU
desc. node	675 Apr 15 j 15:30	23°♄33'23		morning rise	676 Mar 31 j 23:54	1°♄07'48	
morning rise	675 Apr 21 j 19:58	20°♄34'29		desc. node	676 Apr 01 j 12:31	0°♄54'59	
direct	675 Apr 26 j 02:31	19°♄53'48			676 Apr 05 j 09:28	30°♄	
morning max el	675 May 10 j 01:38	26°♄53'12	24°27'13	direct	676 Apr 06 j 09:14	29°♄57'36	
	675 May 13 j 01:49	0°♄			676 Apr 07 j 09:02	0°♄	
	675 Jun 01 j 00:43	0°♄		morning max el	676 Apr 20 j 16:52	7°♄25'48	25°59'56
asc. node	675 Jun 03 j 10:27	4°♄55'23			676 May 07 j 10:43	0°♄	
morning set	675 Jun 04 j 07:15	6°♄44'24		morning set	676 May 18 j 18:43	21°♄40'50	
				asc. node	676 May 20 j 07:30	24°♄56'09	
					676 May 22 j 15:42	0°♄	
superior conj	675 Jun 11 j 07:27	21°♄51'34	1°14'39	superior conj	676 May 25 j 18:35	6°♄50'05	0°54'55
minimum elong	675 Jun 11 j 05:00	21°♄38'16	1°14'16	minimum elong	676 May 25 j 16:28	6°♄38'28	0°54'31
max. Earth dist.	675 Jun 12 j 23:31	25°♄28'02	1.33072 AU	max. Earth dist.	676 May 26 j 09:39	8°♄12'42	1.32492 AU
	675 Jun 15 j 02:29	0°♄		evening rise	676 Jun 01 j 18:57	21°♄55'05	
evening rise	675 Jun 18 j 14:39	7°♄16'46			676 Jun 05 j 18:59	0°♄	
	675 Jun 30 j 21:02	0°♄			676 Jun 23 j 23:40	0°♄	
desc. node	675 Jul 12 j 14:50	17°♄29'41		desc. node	676 Jun 28 j 11:51	5°♄35'52	
evening max el	675 Jul 21 j 15:53	27°♄47'06	27°25'28	evening max el	676 Jul 02 j 22:00	10°♄15'15	27°04'55
	675 Jul 24 j 03:36	0°♄		retrograde	676 Jul 16 j 19:53	17°♄31'06	
retrograde	675 Aug 04 j 09:00	5°♄06'05		evening set	676 Jul 23 j 20:42	15°♄17'18	
evening set	675 Aug 11 j 13:57	2°♄29'47		min. Earth dist.	676 Jul 27 j 12:16	12°♄34'20	0.61309 AU
	675 Aug 14 j 13:43	30°♄		inferior conj	676 Jul 30 j 16:08	9°♄48'11	-4°23'38
min. Earth dist.	675 Aug 15 j 04:19	29°♄25'23	0.63207 AU	minimum elong	676 Jul 30 j 20:29	9°♄38'36	4°22'54
inferior conj	675 Aug 17 j 21:42	26°♄43'11	-3°41'56	morning rise	676 Aug 06 j 21:54	4°♄55'18	
minimum elong	675 Aug 18 j 02:40	26°♄30'49	3°40'37	direct	676 Aug 09 j 08:48	4°♄30'34	
morning rise	675 Aug 24 j 16:37	21°♄29'53		asc. node	676 Aug 16 j 06:42	7°♄53'17	
direct	675 Aug 27 j 04:59	20°♄59'53		morning max el	676 Aug 16 j 09:58	8°♄01'10	17°59'31
asc. node	675 Aug 30 j 09:39	21°♄49'10			676 Aug 30 j 15:20	0°♄	
morning max el	675 Sep 02 j 20:01	24°♄25'31	17°52'48	morning set	676 Sep 01 j 07:32	3°♄04'39	
	675 Sep 07 j 08:37	0°♄					
morning set	675 Sep 19 j 07:12	19°♄55'24		superior conj	676 Sep 11 j 13:46	21°♄37'44	1°19'30
	675 Sep 25 j 01:58	0°♄		minimum elong	676 Sep 11 j 18:20	21°♄57'42	1°19'01
					676 Sep 16 j 10:26	0°♄	
superior conj	675 Oct 01 j 04:27	10°♄20'42	0°48'19	max. Earth dist.	676 Sep 19 j 02:37	4°♄28'39	1.42210 AU
minimum elong	675 Oct 01 j 08:53	10°♄39'08	0°47'43	desc. node	676 Sep 24 j 11:10	13°♄11'17	
max. Earth dist.	675 Oct 07 j 15:17	20°♄54'02	1.43767 AU	evening rise	676 Sep 25 j 07:13	14°♄31'06	
desc. node	675 Oct 08 j 14:07	22°♄25'37			676 Oct 05 j 08:38	0°♄	
	675 Oct 13 j 08:57	0°♄			676 Oct 27 j 20:35	0°♄	
evening rise	675 Oct 16 j 16:20	5°♄08'42		evening max el	676 Oct 27 j 21:45	0°♄02'59	22°14'23
	675 Nov 02 j 06:46	0°♄		retrograde	676 Nov 06 j 09:33	5°♄41'36	
evening max el	675 Nov 15 j 02:56	16°♄32'51	20°59'18	evening set	676 Nov 10 j 21:25	3°♄53'30	
retrograde	675 Nov 23 j 13:37	21°♄33'16		asc. node	676 Nov 12 j 05:56	2°♄37'54	
asc. node	675 Nov 26 j 08:53	20°♄49'01			676 Nov 14 j 11:01	30°♄	
evening set	675 Nov 27 j 13:46	20°♄02'04		inferior conj	676 Nov 16 j 05:46	27°♄34'36	1°20'27
inferior conj	675 Dec 02 j 22:48	13°♄50'14	2°06'58	minimum elong	676 Nov 16 j 04:01	27°♄40'39	1°19'45
minimum elong	675 Dec 02 j 20:21	13°♄58'40	2°06'06	min. Earth dist.	676 Nov 16 j 05:12	27°♄36'34	0.67704 AU
min. Earth dist.	675 Dec 03 j 09:18	13°♄14'11	0.67407 AU	morning rise	676 Nov 21 j 10:29	21°♄22'53	
morning rise	675 Dec 08 j 02:45	7°♄36'48		direct	676 Nov 26 j 03:24	19°♄25'22	
direct	675 Dec 13 j 10:42	5°♄16'58					
morning max el	675 Dec 24 j 05:43	11°♄43'14	23°53'05				

morning max el	676 Dec 05 j 16:29	25° \mathbb{M} 04'04	22°25'23	desc. node	677 Dec 08 j 07:24	5° \mathbb{A} 19'25	
	676 Dec 10 j 02:30	0° \mathbb{A}		morning set	677 Dec 18 j 15:03	21° \mathbb{A} 06'59	
desc. node	676 Dec 21 j 10:22	15° \mathbb{A} 11'02			677 Dec 24 j 05:19	0° \mathbb{B}	
	676 Dec 31 j 08:53	0° \mathbb{B}		max. Earth dist.	677 Dec 26 j 15:27	3° \mathbb{B} 55'39	1.42577 AU
morning set	677 Jan 08 j 06:48	12° \mathbb{B} 32'30					
max. Earth dist.	677 Jan 13 j 11:54	21° \mathbb{B} 11'44	1.40635 AU	superior conj	678 Jan 02 j 17:35	15° \mathbb{B} 44'38	-2°01'28
	677 Jan 18 j 14:19	0° \mathbb{C}		minimum elong	678 Jan 02 j 15:25	15° \mathbb{B} 35'23	2°01'24
					678 Jan 10 j 21:49	0° \mathbb{C}	
superior conj	677 Jan 21 j 07:22	4° \mathbb{C} 49'20	-2°00'55	evening rise	678 Jan 14 j 06:48	6° \mathbb{C} 02'19	
minimum elong	677 Jan 21 j 09:19	4° \mathbb{C} 58'06	2°00'51	asc. node	678 Jan 26 j 02:16	26° \mathbb{C} 14'28	
evening rise	677 Jan 31 j 09:37	23° \mathbb{C} 30'22			678 Jan 28 j 20:02	0° \mathbb{D}	
	677 Feb 03 j 20:59	0° \mathbb{D}		evening max el	678 Jan 31 j 02:14	2° \mathbb{D} 32'07	18°07'38
asc. node	677 Feb 08 j 05:15	7° \mathbb{D} 46'19		retrograde	678 Feb 06 j 17:33	5° \mathbb{D} 56'59	
evening max el	677 Feb 16 j 15:30	19° \mathbb{D} 30'19	18°19'51	evening set	678 Feb 09 j 10:32	5° \mathbb{D} 22'56	
retrograde	677 Feb 23 j 20:38	23° \mathbb{D} 05'05		inferior conj	678 Feb 15 j 23:57	0° \mathbb{D} 22'48	3°43'29
evening set	677 Feb 26 j 08:49	22° \mathbb{D} 40'14		minimum elong	678 Feb 16 j 01:12	0° \mathbb{D} 19'44	3°43'24
inferior conj	677 Mar 05 j 12:43	18° \mathbb{D} 01'20	3°16'04		678 Feb 16 j 09:16	30° \mathbb{R} \mathbb{C}	
minimum elong	677 Mar 05 j 16:05	17° \mathbb{D} 54'13	3°15'28	min. Earth dist.	678 Feb 19 j 02:24	27° \mathbb{C} 22'33	0.61355 AU
min. Earth dist.	677 Mar 08 j 23:01	15° \mathbb{D} 08'57	0.59238 AU	morning rise	678 Feb 22 j 14:22	24° \mathbb{C} 30'56	
morning rise	677 Mar 12 j 20:58	12° \mathbb{D} 26'54		direct	678 Mar 01 j 11:00	22° \mathbb{C} 09'31	
direct	677 Mar 19 j 04:48	10° \mathbb{D} 39'40		desc. node	678 Mar 06 j 06:34	23° \mathbb{C} 12'33	
desc. node	677 Mar 19 j 09:33	10° \mathbb{D} 39'46		morning max el	678 Mar 15 j 14:51	0° \mathbb{D} 01'06	27°44'34
morning max el	677 Apr 02 j 12:37	18° \mathbb{D} 23'12	27°09'13		678 Mar 15 j 14:25	0° \mathbb{D}	
	677 Apr 12 j 06:22	0° \mathbb{Y}			678 Apr 06 j 06:10	0° \mathbb{Y}	
	677 Apr 29 j 23:47	0° \mathbb{B}		morning set	678 Apr 17 j 09:21	21° \mathbb{Y} 02'48	
morning set	677 May 03 j 04:02	6° \mathbb{B} 29'03			678 Apr 21 j 15:33	0° \mathbb{B}	
asc. node	677 May 07 j 04:32	15° \mathbb{B} 03'48		max. Earth dist.	678 Apr 23 j 09:36	3° \mathbb{B} 47'11	1.32444 AU
				asc. node	678 Apr 24 j 01:35	5° \mathbb{B} 14'07	
superior conj	677 May 10 j 06:20	21° \mathbb{B} 47'41	0°32'03				
minimum elong	677 May 10 j 04:58	21° \mathbb{B} 40'06	0°31'46	superior conj	678 Apr 24 j 17:06	6° \mathbb{B} 38'47	0°06'51
max. Earth dist.	677 May 09 j 22:19	21° \mathbb{B} 03'33	1.32282 AU	minimum elong	678 Apr 24 j 16:47	6° \mathbb{B} 37'03	0°06'47
	677 May 14 j 00:13	0° \mathbb{I}		behind sun begin	678 Apr 24 j 12:09	6° \mathbb{B} 11'48	
evening rise	677 May 17 j 03:45	6° \mathbb{I} 44'43		behind sun end	678 Apr 24 j 21:24	7° \mathbb{B} 02'19	
	677 May 29 j 09:13	0° \mathbb{E}		evening rise	678 May 01 j 14:58	21° \mathbb{B} 38'25	
evening max el	677 Jun 14 j 21:42	21° \mathbb{E} 58'18	26°11'40		678 May 05 j 16:25	0° \mathbb{I}	
desc. node	677 Jun 15 j 08:51	22° \mathbb{E} 24'32			678 May 24 j 18:18	0° \mathbb{E}	
retrograde	677 Jun 28 j 22:03	29° \mathbb{E} 10'21		evening max el	678 May 27 j 14:33	2° \mathbb{E} 57'12	24°51'41
evening set	677 Jul 05 j 06:50	27° \mathbb{E} 30'59		desc. node	678 Jun 02 j 05:51	7° \mathbb{E} 25'00	
min. Earth dist.	677 Jul 09 j 10:31	24° \mathbb{E} 53'37	0.59257 AU	retrograde	678 Jun 10 j 13:48	10° \mathbb{E} 02'31	
inferior conj	677 Jul 12 j 18:17	22° \mathbb{E} 21'52	-4°47'39	evening set	678 Jun 15 j 17:39	9° \mathbb{E} 01'53	
minimum elong	677 Jul 12 j 19:56	22° \mathbb{E} 18'43	4°47'34	min. Earth dist.	678 Jun 21 j 01:56	6° \mathbb{E} 12'15	0.57297 AU
morning rise	677 Jul 20 j 11:10	17° \mathbb{E} 51'34		inferior conj	678 Jun 24 j 01:01	4° \mathbb{E} 14'59	-4°42'06
direct	677 Jul 22 j 22:58	17° \mathbb{E} 30'09		minimum elong	678 Jun 23 j 21:57	4° \mathbb{E} 20'05	4°41'50
morning max el	677 Jul 30 j 18:52	21° \mathbb{E} 15'29	18°26'06	morning rise	678 Jul 02 j 05:00	0° \mathbb{E} 06'22	
asc. node	677 Aug 03 j 03:45	25° \mathbb{E} 05'04			678 Jul 02 j 16:33	30° \mathbb{R} \mathbb{I}	
	677 Aug 06 j 12:47	0° \mathbb{O}		direct	678 Jul 04 j 19:12	29° \mathbb{I} 47'11	
morning set	677 Aug 15 j 21:03	16° \mathbb{O} 52'19			678 Jul 06 j 20:40	0° \mathbb{E}	
	677 Aug 22 j 18:06	0° \mathbb{P}		morning max el	678 Jul 13 j 19:45	3° \mathbb{E} 59'39	19°13'37
				asc. node	678 Jul 21 j 00:48	13° \mathbb{E} 10'04	
superior conj	677 Aug 24 j 22:34	4° \mathbb{P} 04'32	1°38'11		678 Jul 30 j 06:09	0° \mathbb{O}	
minimum elong	677 Aug 25 j 01:23	4° \mathbb{P} 17'33	1°38'00	morning set	678 Jul 30 j 19:50	1° \mathbb{O} 07'51	
max. Earth dist.	677 Sep 01 j 09:00	17° \mathbb{P} 22'52	1.40288 AU				
evening rise	677 Sep 05 j 18:59	24° \mathbb{P} 51'58		superior conj	678 Aug 08 j 01:13	17° \mathbb{O} 25'19	1°46'04
	677 Sep 08 j 22:11	0° \mathbb{U}		minimum elong	678 Aug 08 j 01:58	17° \mathbb{O} 28'59	1°46'04
desc. node	677 Sep 11 j 08:12	3° \mathbb{U} 51'55		max. Earth dist.	678 Aug 14 j 12:22	29° \mathbb{O} 35'59	1.38256 AU
	677 Sep 29 j 04:03	0° \mathbb{M}			678 Aug 14 j 17:39	0° \mathbb{P}	
evening max el	677 Oct 10 j 12:08	13° \mathbb{M} 35'34	23°34'17	evening rise	678 Aug 18 j 07:20	6° \mathbb{P} 22'12	
retrograde	677 Oct 21 j 02:32	19° \mathbb{M} 51'04		desc. node	678 Aug 29 j 05:12	24° \mathbb{P} 23'10	
evening set	677 Oct 26 j 03:48	17° \mathbb{M} 45'10			678 Sep 01 j 21:25	0° \mathbb{U}	
asc. node	677 Oct 30 j 02:57	13° \mathbb{M} 17'51		evening max el	678 Sep 23 j 00:02	27° \mathbb{U} 11'00	24°52'32
min. Earth dist.	677 Oct 31 j 01:46	12° \mathbb{M} 00'48	0.67668 AU		678 Sep 26 j 02:36	0° \mathbb{M}	
inferior conj	677 Oct 31 j 12:52	11° \mathbb{M} 22'53	0°29'09	retrograde	678 Oct 04 j 15:33	3° \mathbb{M} 57'26	
minimum elong	677 Oct 31 j 12:11	11° \mathbb{M} 25'13	0°28'50	evening set	678 Oct 10 j 07:14	1° \mathbb{M} 34'29	
morning rise	677 Nov 05 j 20:30	5° \mathbb{M} 15'12			678 Oct 11 j 22:04	30° \mathbb{R} \mathbb{U}	
direct	677 Nov 09 j 23:17	3° \mathbb{M} 40'16		min. Earth dist.	678 Oct 14 j 20:41	26° \mathbb{U} 24'21	0.67309 AU
morning max el	677 Nov 18 j 09:14	8° \mathbb{M} 34'17	21°03'56	inferior conj	678 Oct 15 j 18:21	25° \mathbb{U} 12'43	-0°25'36
	677 Dec 04 j 17:07	0° \mathbb{A}		minimum elong	678 Oct 15 j 19:00	25° \mathbb{U} 10'37	0°25'19

asc. node	678 Oct 16 j 24:00	23°♄36'03		direct	679 Oct 08 j 19:32	2°♄12'51	
morning rise	678 Oct 21 j 06:52	19°♄11'30		morning max el	679 Oct 15 j 17:22	6°♄04'43	18°58'31
direct	678 Oct 24 j 21:07	17°♄57'04			679 Nov 01 j 15:55	0°♄	
morning max el	678 Nov 01 j 09:40	22°♄15'02	19°53'58	morning set	679 Nov 06 j 20:27	8°♄08'21	
	678 Nov 07 j 19:37	0°♄		desc. node	679 Nov 12 j 01:29	16°♄18'59	
desc. node	678 Nov 25 j 04:26	25°♄43'33			679 Nov 20 j 18:44	0°♄	
morning set	678 Nov 27 j 11:15	29°♄14'51		max. Earth dist.	679 Nov 21 j 18:10	1°♄32'09	1.44911 AU
	678 Nov 27 j 22:55	0°♄					
max. Earth dist.	678 Dec 09 j 02:12	17°♄27'42	1.44060 AU	superior conj	679 Nov 23 j 09:26	4°♄06'48	-1°10'23
				minimum elong	679 Nov 23 j 01:20	3°♄34'54	1°09'27
superior conj	678 Dec 14 j 01:07	25°♄25'48	-1°45'10	evening rise	679 Dec 08 j 14:07	28°♄26'08	
minimum elong	678 Dec 13 j 18:00	24°♄56'56	1°44'38		679 Dec 09 j 13:12	0°♄	
	678 Dec 16 j 20:17	0°♄		evening max el	679 Dec 29 j 02:21	29°♄11'23	18°40'14
evening rise	678 Dec 27 j 09:37	17°♄43'01			679 Dec 29 j 22:16	0°♄	
	679 Jan 03 j 14:52	0°♄		asc. node	679 Dec 30 j 20:21	0°♄48'02	
asc. node	679 Jan 12 j 23:18	13°♄59'11		retrograde	680 Jan 04 j 18:18	2°♄54'19	
evening max el	679 Jan 14 j 14:42	15°♄47'42	18°14'44	evening set	680 Jan 07 j 21:22	1°♄58'59	
retrograde	679 Jan 21 j 02:12	19°♄16'05			680 Jan 10 j 09:48	30°♄	
evening set	679 Jan 23 j 23:50	18°♄31'56		inferior conj	680 Jan 13 j 16:07	26°♄21'11	3°33'14
inferior conj	679 Jan 30 j 02:23	13°♄11'58	3°47'01	minimum elong	680 Jan 13 j 14:04	26°♄27'21	3°32'57
minimum elong	679 Jan 30 j 01:39	13°♄13'57	3°47'00	min. Earth dist.	680 Jan 15 j 13:24	24°♄04'51	0.64960 AU
min. Earth dist.	679 Feb 01 j 15:04	10°♄25'59	0.63316 AU	morning rise	680 Jan 19 j 06:19	20°♄12'55	
morning rise	679 Feb 05 j 02:38	7°♄09'42		direct	680 Jan 26 j 00:11	17°♄20'32	
direct	679 Feb 12 j 01:56	4°♄25'21		desc. node	680 Feb 08 j 00:39	24°♄48'45	
desc. node	679 Feb 21 j 03:36	8°♄07'32		morning max el	680 Feb 08 j 07:41	25°♄06'15	27°06'41
morning max el	679 Feb 25 j 22:09	12°♄18'50	27°42'43		680 Feb 12 j 19:11	0°♄	
	679 Mar 12 j 00:45	0°♄			680 Mar 04 j 11:37	0°♄	
	679 Mar 29 j 16:22	0°♄		morning set	680 Mar 14 j 21:59	18°♄54'03	
morning set	679 Apr 01 j 08:20	5°♄14'28		max. Earth dist.	680 Mar 19 j 11:54	27°♄59'52	1.33989 AU
max. Earth dist.	679 Apr 06 j 15:26	16°♄09'43	1.32998 AU		680 Mar 20 j 11:24	0°♄	
superior conj	679 Apr 09 j 01:08	21°♄17'40	-0°19'55	superior conj	680 Mar 23 j 04:25	5°♄37'44	-0°47'09
minimum elong	679 Apr 09 j 02:05	21°♄22'51	0°19'42	minimum elong	680 Mar 23 j 06:43	5°♄49'50	0°46'43
asc. node	679 Apr 10 j 22:38	25°♄23'06		asc. node	680 Mar 27 j 19:40	15°♄26'17	
	679 Apr 13 j 01:52	0°♄		evening rise	680 Mar 30 j 13:19	21°♄12'10	
evening rise	679 Apr 16 j 02:47	6°♄29'46			680 Apr 03 j 21:15	0°♄	
	679 Apr 28 j 15:10	0°♄		evening max el	680 Apr 19 j 23:32	24°♄10'45	21°44'07
evening max el	679 May 09 j 04:45	13°♄31'16	23°17'35		680 Apr 29 j 20:11	0°♄	
desc. node	679 May 20 j 02:52	20°♄01'12		retrograde	680 May 02 j 09:55	0°♄15'29	
retrograde	679 May 22 j 17:36	20°♄16'45		evening set	680 May 04 j 22:42	0°♄01'05	
evening set	679 May 26 j 09:54	19°♄47'01			680 May 05 j 01:00	30°♄	
min. Earth dist.	679 Jun 02 j 14:39	16°♄30'56	0.55764 AU	desc. node	680 May 05 j 23:53	29°♄47'05	
inferior conj	679 Jun 04 j 11:58	15°♄24'13	-3°54'08	inferior conj	680 May 14 j 08:42	25°♄58'25	-2°20'52
minimum elong	679 Jun 04 j 04:52	15°♄34'43	3°52'33	minimum elong	680 May 14 j 02:26	26°♄07'12	2°18'50
morning rise	679 Jun 13 j 02:31	11°♄29'35		min. Earth dist.	680 May 14 j 03:16	26°♄06'02	0.55003 AU
direct	679 Jun 15 j 20:07	11°♄11'27		morning rise	680 May 23 j 07:08	22°♄02'06	
morning max el	679 Jun 26 j 10:18	16°♄05'25	20°22'09	direct	680 May 26 j 08:14	21°♄41'39	
	679 Jul 06 j 19:18	0°♄		morning max el	680 Jun 07 j 13:34	27°♄27'12	21°49'27
asc. node	679 Jul 07 j 21:52	1°♄56'04			680 Jun 10 j 01:35	0°♄	
morning set	679 Jul 15 j 01:02	15°♄43'48		asc. node	680 Jun 23 j 18:56	21°♄12'09	
	679 Jul 21 j 23:48	0°♄		morning set	680 Jun 28 j 10:17	0°♄32'34	
					680 Jun 28 j 04:01	0°♄	
superior conj	679 Jul 22 j 16:44	1°♄25'55	1°45'15	superior conj	680 Jul 05 j 17:08	15°♄53'17	1°37'32
minimum elong	679 Jul 22 j 15:50	1°♄21'20	1°45'13	minimum elong	680 Jul 05 j 15:09	15°♄42'58	1°37'21
max. Earth dist.	679 Jul 27 j 18:11	11°♄26'48	1.36364 AU	max. Earth dist.	680 Jul 09 j 07:57	23°♄21'33	1.34784 AU
evening rise	679 Jul 31 j 17:37	18°♄56'26			680 Jul 12 j 15:53	0°♄	
	679 Aug 06 j 23:27	0°♄		evening rise	680 Jul 13 j 20:52	2°♄20'34	
desc. node	679 Aug 16 j 02:13	14°♄40'13			680 Jul 29 j 21:34	0°♄	
	679 Aug 27 j 00:19	0°♄		desc. node	680 Aug 01 j 23:16	4°♄35'24	
evening max el	679 Sep 05 j 11:40	10°♄48'59	26°01'40	evening max el	680 Aug 17 j 23:48	24°♄22'48	26°54'07
retrograde	679 Sep 18 j 00:02	17°♄56'06			680 Aug 25 j 07:40	0°♄	
evening set	679 Sep 24 j 05:55	15°♄19'24		retrograde	680 Aug 31 j 03:10	1°♄39'38	
min. Earth dist.	679 Sep 28 j 11:38	10°♄45'10	0.66620 AU		680 Sep 05 j 10:09	30°♄	
inferior conj	679 Sep 29 j 20:30	9°♄02'17	-1°22'13	evening set	680 Sep 06 j 21:36	28°♄55'22	
minimum elong	679 Sep 29 j 22:36	8°♄55'39	1°21'19	min. Earth dist.	680 Sep 10 j 20:14	24°♄57'58	0.65580 AU
asc. node	679 Oct 03 j 21:03	4°♄30'51		inferior conj	680 Sep 12 j 17:12	22°♄47'15	-2°18'55
morning rise	679 Oct 05 j 15:38	3°♄10'15					

minimum elong	680 Sep 12 j 20:47	22° \mathbb{M} 36'52	2°17'34	morning rise	681 Sep 02 j 19:00	0° \mathbb{M} 58'12	
morning rise	680 Sep 18 j 20:34	17° \mathbb{M} 07'25		direct	681 Sep 05 j 09:31	0° \mathbb{M} 23'48	
asc. node	680 Sep 19 j 18:07	16° \mathbb{M} 43'58		asc. node	681 Sep 06 j 15:11	0° \mathbb{M} 31'39	
direct	680 Sep 21 j 16:31	16° \mathbb{M} 23'18		morning max el	681 Sep 11 j 21:56	3° \mathbb{M} 50'16	17°57'19
morning max el	680 Sep 28 j 06:19	19° \mathbb{M} 58'18	18°19'20	morning set	681 Sep 29 j 02:01	0° \mathbb{A} 04'38	
	680 Oct 05 j 21:35	0° \mathbb{A}			681 Sep 29 j 00:56	0° \mathbb{A}	
morning set	680 Oct 17 j 09:24	18° \mathbb{A} 26'07					
	680 Oct 24 j 12:55	0° \mathbb{M}		superior conj	681 Oct 12 j 02:00	21° \mathbb{A} 47'15	0°24'45
desc. node	680 Oct 28 j 22:33	7° \mathbb{M} 01'41		minimum elong	681 Oct 12 j 04:44	21° \mathbb{A} 58'23	0°24'21
				desc. node	681 Oct 15 j 19:35	27° \mathbb{A} 48'09	
superior conj	680 Nov 01 j 10:32	12° \mathbb{M} 34'07	-0°23'02		681 Oct 17 j 04:39	0° \mathbb{M}	
minimum elong	680 Nov 01 j 07:32	12° \mathbb{M} 22'15	0°22'37	max. Earth dist.	681 Oct 17 j 07:18	0° \mathbb{M} 10'29	1.44428 AU
max. Earth dist.	680 Nov 03 j 12:53	15° \mathbb{M} 52'25	1.45036 AU	evening rise	681 Oct 28 j 06:32	17° \mathbb{M} 19'02	
	680 Nov 12 j 13:14	0° \mathbb{A}			681 Nov 05 j 14:01	0° \mathbb{A}	
evening rise	680 Nov 17 j 19:09	8° \mathbb{A} 12'33		evening max el	681 Nov 24 j 14:35	26° \mathbb{A} 08'02	20°20'26
greatest brilliancy	680 Nov 28 j 22:21	25° \mathbb{A} 32'56	-0.7m		681 Nov 29 j 11:50	0° \mathbb{B}	
	680 Dec 01 j 20:53	0° \mathbb{B}		retrograde	681 Dec 02 j 12:12	0° \mathbb{B} 47'02	
evening max el	680 Dec 11 j 10:55	12° \mathbb{B} 39'11	19°22'49	asc. node	681 Dec 03 j 14:25	0° \mathbb{B} 40'17	
asc. node	680 Dec 16 j 17:23	16° \mathbb{B} 26'37			681 Dec 05 j 08:42	30° \mathbb{R} \mathbb{A}	
retrograde	680 Dec 18 j 14:31	16° \mathbb{B} 46'11		evening set	681 Dec 06 j 06:41	29° \mathbb{A} 24'37	
evening set	680 Dec 22 j 00:24	15° \mathbb{B} 38'09		inferior conj	681 Dec 11 j 16:49	23° \mathbb{A} 18'32	2°31'00
inferior conj	680 Dec 27 j 13:50	9° \mathbb{B} 44'50	3°06'51	minimum elong	681 Dec 11 j 14:08	23° \mathbb{A} 27'35	2°30'10
minimum elong	680 Dec 27 j 11:10	9° \mathbb{B} 53'26	3°06'14	min. Earth dist.	681 Dec 12 j 10:07	22° \mathbb{A} 20'03	0.67082 AU
min. Earth dist.	680 Dec 28 j 20:22	8° \mathbb{B} 06'14	0.66216 AU	morning rise	681 Dec 16 j 21:25	17° \mathbb{A} 05'24	
morning rise	681 Jan 01 j 21:40	3° \mathbb{B} 33'13		direct	681 Dec 22 j 14:04	14° \mathbb{A} 34'13	
direct	681 Jan 08 j 04:31	0° \mathbb{B} 46'29		morning max el	682 Jan 03 j 01:28	21° \mathbb{A} 24'30	24°43'20
morning max el	681 Jan 20 j 17:01	8° \mathbb{B} 11'17	26°03'48		682 Jan 10 j 12:35	0° \mathbb{B}	
desc. node	681 Jan 24 j 21:43	12° \mathbb{B} 46'02		desc. node	682 Jan 11 j 18:46	1° \mathbb{B} 36'43	
	681 Feb 06 j 19:08	0° \mathbb{A}			682 Jan 31 j 01:18	0° \mathbb{A}	
	681 Feb 24 j 22:32	0° \mathbb{H}		morning set	682 Feb 08 j 03:41	13° \mathbb{A} 44'18	
morning set	681 Feb 25 j 22:16	1° \mathbb{H} 49'25		max. Earth dist.	682 Feb 11 j 19:32	20° \mathbb{A} 19'29	1.37305 AU
max. Earth dist.	681 Mar 01 j 20:43	9° \mathbb{H} 17'10	1.35441 AU		682 Feb 16 j 23:08	0° \mathbb{H}	
superior conj	681 Mar 07 j 00:32	19° \mathbb{H} 31'46	-1°13'30	superior conj	682 Feb 18 j 10:14	2° \mathbb{H} 49'49	-1°36'59
minimum elong	681 Mar 07 j 04:00	19° \mathbb{H} 49'22	1°12'57	minimum elong	682 Feb 18 j 14:15	3° \mathbb{H} 09'22	1°36'31
	681 Mar 12 j 02:46	0° \mathbb{Y}		evening rise	682 Feb 26 j 22:19	19° \mathbb{H} 43'53	
evening rise	681 Mar 14 j 20:37	5° \mathbb{Y} 39'29		asc. node	682 Mar 01 j 13:45	24° \mathbb{H} 57'06	
asc. node	681 Mar 14 j 16:44	5° \mathbb{Y} 19'32			682 Mar 04 j 05:13	0° \mathbb{Y}	
	681 Mar 28 j 13:55	0° \mathbb{B}		evening max el	682 Mar 15 j 20:34	17° \mathbb{Y} 07'21	19°19'16
evening max el	681 Apr 02 j 04:26	5° \mathbb{B} 20'17	20°22'43	retrograde	682 Mar 24 j 22:58	21° \mathbb{Y} 30'31	
retrograde	681 Apr 12 j 23:13	10° \mathbb{B} 32'12		evening set	682 Mar 27 j 02:40	21° \mathbb{Y} 16'50	
evening set	681 Apr 15 j 01:34	10° \mathbb{B} 21'13		inferior conj	682 Apr 04 j 11:39	17° \mathbb{Y} 08'16	1°27'31
desc. node	681 Apr 22 j 20:54	7° \mathbb{B} 08'26		minimum elong	682 Apr 04 j 15:00	17° \mathbb{Y} 02'44	1°26'27
inferior conj	681 Apr 24 j 03:59	6° \mathbb{B} 23'23	-0°22'25	min. Earth dist.	682 Apr 07 j 07:17	15° \mathbb{Y} 16'54	0.56288 AU
minimum elong	681 Apr 24 j 02:56	6° \mathbb{B} 24'55	0°22'02	desc. node	682 Apr 09 j 17:56	13° \mathbb{Y} 49'06	
min. Earth dist.	681 Apr 25 j 16:35	5° \mathbb{B} 29'54	0.55194 AU	morning rise	682 Apr 13 j 00:30	12° \mathbb{Y} 19'13	
morning rise	681 May 03 j 02:55	2° \mathbb{B} 06'57		direct	682 Apr 17 j 18:19	11° \mathbb{Y} 27'43	
direct	681 May 06 j 20:16	1° \mathbb{B} 36'53		morning max el	682 May 01 j 22:22	18° \mathbb{Y} 40'26	25°08'42
morning max el	681 May 20 j 07:47	8° \mathbb{B} 11'57	23°28'55		682 May 11 j 09:15	0° \mathbb{B}	
	681 Jun 05 j 00:56	0° \mathbb{H}		morning set	682 May 28 j 09:37	0° \mathbb{H} 26'33	
asc. node	681 Jun 10 j 16:00	10° \mathbb{H} 50'40			682 May 28 j 04:34	0° \mathbb{H}	
morning set	681 Jun 12 j 21:43	15° \mathbb{H} 28'45		asc. node	682 May 28 j 13:03	0° \mathbb{H} 44'42	
superior conj	681 Jun 19 j 23:25	0° \mathbb{B} 38'22	1°24'19	superior conj	682 Jun 04 j 09:18	15° \mathbb{H} 33'33	1°06'42
minimum elong	681 Jun 19 j 20:59	0° \mathbb{B} 25'19	1°24'00	minimum elong	682 Jun 04 j 06:57	15° \mathbb{H} 20'38	1°06'18
	681 Jun 19 j 16:17	0° \mathbb{B}		max. Earth dist.	682 Jun 05 j 14:34	18° \mathbb{H} 12'50	1.32782 AU
max. Earth dist.	681 Jun 22 j 07:22	5° \mathbb{B} 36'40	1.33591 AU		682 Jun 11 j 03:37	0° \mathbb{B}	
evening rise	681 Jun 27 j 12:36	16° \mathbb{B} 21'48		evening rise	682 Jun 11 j 13:07	0° \mathbb{B} 48'51	
	681 Jul 04 j 17:03	0° \mathbb{Q}			682 Jun 27 j 16:49	0° \mathbb{Q}	
desc. node	681 Jul 19 j 20:16	23° \mathbb{Q} 59'16		desc. node	682 Jul 06 j 17:16	12° \mathbb{Q} 38'52	
	681 Jul 24 j 11:13	0° \mathbb{M}		evening max el	682 Jul 13 j 20:12	20° \mathbb{Q} 31'08	27°20'45
evening max el	681 Jul 31 j 11:26	7° \mathbb{M} 41'22	27°22'26	retrograde	682 Jul 27 j 15:11	27° \mathbb{Q} 48'19	
retrograde	681 Aug 14 j 00:23	14° \mathbb{M} 59'59		evening set	682 Aug 03 j 19:54	25° \mathbb{Q} 19'46	
evening set	681 Aug 21 j 03:27	12° \mathbb{M} 17'28		min. Earth dist.	682 Aug 07 j 09:48	22° \mathbb{Q} 26'24	0.62436 AU
min. Earth dist.	681 Aug 24 j 20:09	8° \mathbb{M} 55'21	0.64180 AU	inferior conj	682 Aug 10 j 08:12	19° \mathbb{Q} 40'38	-4°01'10
inferior conj	681 Aug 27 j 06:04	6° \mathbb{M} 22'17	-3°13'11	minimum elong	682 Aug 10 j 13:07	19° \mathbb{Q} 29'01	4°00'03
minimum elong	681 Aug 27 j 10:45	6° \mathbb{M} 09'53	3°11'43	morning rise	682 Aug 17 j 07:41	14° \mathbb{Q} 35'46	


































































































































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asc. node	682 Aug 24 j 12:15	15°♎49'59			683 Jul 27 j 02:49	30°♎	
morning max el	682 Aug 26 j 13:25	17°♎34'27	17°53'20	morning rise	683 Jul 31 j 06:40	27°♎50'20	
	682 Sep 04 j 10:25	0°♎		direct	683 Aug 02 j 17:38	27°♎27'17	
morning set	682 Sep 11 j 16:31	12°♎45'59			683 Aug 08 j 21:35	0°♎	
	682 Sep 21 j 11:14	0°♎		morning max el	683 Aug 10 j 01:40	1°♎02'39	18°08'23
				asc. node	683 Aug 11 j 09:18	2°♎24'57	
superior conj	682 Sep 22 j 19:51	2°♎19'19	1°03'07	morning set	683 Aug 25 j 23:00	26°♎13'01	
minimum elong	682 Sep 23 j 00:41	2°♎39'54	1°02'32		683 Aug 27 j 23:25	0°♎	
max. Earth dist.	682 Sep 29 j 22:06	14°♎07'04	1.43165 AU				
desc. node	682 Oct 02 j 16:37	18°♎35'21		superior conj	683 Sep 04 j 15:52	14°♎08'26	1°28'52
evening rise	682 Oct 07 j 15:02	26°♎22'51		minimum elong	683 Sep 04 j 19:48	14°♎26'04	1°28'31
	682 Oct 09 j 23:04	0°♎		max. Earth dist.	683 Sep 12 j 06:56	27°♎24'23	1.41418 AU
	682 Oct 30 j 12:44	0°♎			683 Sep 13 j 20:07	0°♎	
evening max el	682 Nov 07 j 12:29	9°♎37'32	21°30'12	evening rise	683 Sep 17 j 13:39	6°♎07'00	
retrograde	682 Nov 16 j 09:23	14°♎54'07		desc. node	683 Sep 19 j 13:38	9°♎19'23	
asc. node	682 Nov 20 j 11:27	13°♎21'18			683 Oct 03 j 04:41	0°♎	
evening set	682 Nov 20 j 14:21	13°♎15'40		evening max el	683 Oct 21 j 05:01	23°♎08'00	22°48'04
inferior conj	682 Nov 25 j 22:54	7°♎00'10	1°47'55	retrograde	683 Oct 31 j 04:21	29°♎03'28	
minimum elong	682 Nov 25 j 20:42	7°♎07'47	1°47'05	evening set	683 Nov 04 j 21:40	27°♎07'49	
min. Earth dist.	682 Nov 26 j 04:29	6°♎40'53	0.67577 AU	asc. node	683 Nov 07 j 08:30	24°♎36'50	
morning rise	682 Dec 01 j 02:54	0°♎47'19		inferior conj	683 Nov 10 j 06:09	20°♎46'42	0°59'12
	682 Dec 02 j 03:00	30°♎		minimum elong	683 Nov 10 j 04:49	20°♎51'20	0°58'38
direct	682 Dec 06 j 04:19	28°♎37'04		min. Earth dist.	683 Nov 10 j 01:02	21°♎04'22	0.67728 AU
	682 Dec 10 j 15:51	0°♎		morning rise	683 Nov 15 j 11:50	14°♎36'15	
morning max el	682 Dec 16 j 10:40	4°♎43'14	23°15'29	direct	683 Nov 19 j 22:28	12°♎48'38	
desc. node	682 Dec 29 j 15:49	21°♎05'55		morning max el	683 Nov 28 j 23:42	18°♎08'07	21°49'31
	683 Jan 04 j 20:26	0°♎			683 Dec 08 j 17:42	0°♎	
morning set	683 Jan 20 j 08:05	24°♎23'31		desc. node	683 Dec 16 j 12:52	11°♎02'16	
	683 Jan 23 j 15:18	0°♎			683 Dec 29 j 00:11	0°♎	
max. Earth dist.	683 Jan 24 j 14:39	1°♎41'01	1.39416 AU	morning set	683 Dec 31 j 07:21	3°♎38'53	
				max. Earth dist.	684 Jan 06 j 13:12	13°♎49'33	1.41501 AU
superior conj	683 Feb 01 j 05:31	15°♎22'03	-1°54'45				
minimum elong	683 Feb 01 j 08:48	15°♎37'15	1°54'32	superior conj	684 Jan 14 j 05:20	26°♎56'20	-2°02'56
	683 Feb 08 j 22:30	0°♎		minimum elong	684 Jan 14 j 05:49	26°♎58'24	2°02'56
evening rise	683 Feb 10 j 15:44	3°♎18'41			684 Jan 15 j 22:56	0°♎	
asc. node	683 Feb 16 j 10:46	14°♎13'31		evening rise	684 Jan 24 j 21:26	16°♎15'58	
evening max el	683 Feb 26 j 22:16	29°♎29'48	18°35'43		684 Feb 01 j 12:07	0°♎	
	683 Feb 27 j 11:09	0°♎		asc. node	684 Feb 03 j 07:47	3°♎02'01	
retrograde	683 Mar 06 j 16:47	3°♎17'46		evening max el	684 Feb 10 j 06:38	12°♎20'16	18°12'17
evening set	683 Mar 09 j 01:40	2°♎57'47		retrograde	684 Feb 17 j 04:42	15°♎49'06	
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inferior conj	683 Mar 16 j 15:33	28°♎30'53	2°46'30	inferior conj	684 Feb 26 j 16:12	10°♎32'54	3°31'05
minimum elong	683 Mar 16 j 19:41	28°♎22'53	2°45'31	minimum elong	684 Feb 26 j 18:43	10°♎27'13	3°30'45
min. Earth dist.	683 Mar 20 j 01:07	25°♎54'17	0.58050 AU	min. Earth dist.	684 Mar 01 j 00:26	7°♎33'44	0.60139 AU
morning rise	683 Mar 24 j 10:47	23°♎10'04		morning rise	684 Mar 04 j 16:28	4°♎49'48	
desc. node	683 Mar 27 j 14:58	22°♎02'29		direct	684 Mar 11 j 07:03	2°♎46'42	
direct	683 Mar 30 j 06:23	21°♎44'42		desc. node	684 Mar 13 j 12:00	2°♎59'51	
morning max el	683 Apr 13 j 15:14	29°♎21'04	26°33'12	morning max el	684 Mar 25 j 13:47	10°♎35'24	27°28'47
	683 Apr 14 j 06:59	0°♎			684 Apr 09 j 15:35	0°♎	
	683 May 05 j 02:08	0°♎		morning set	684 Apr 26 j 04:13	0°♎03'28	
morning set	683 May 12 j 20:21	15°♎20'06			684 Apr 26 j 03:33	0°♎	
asc. node	683 May 15 j 10:05	20°♎48'47		asc. node	684 May 01 j 07:06	10°♎58'27	
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superior conj	683 May 19 j 20:52	0°♎32'06	0°45'33				
minimum elong	683 May 19 j 19:01	0°♎21'56	0°45'11	superior conj	684 May 03 j 08:26	15°♎28'16	0°21'37
	683 May 19 j 15:02	0°♎		minimum elong	684 May 03 j 07:28	15°♎22'59	0°21'25
max. Earth dist.	683 May 20 j 02:09	1°♎01'08	1.32350 AU	evening rise	684 May 10 j 05:36	0°♎24'55	
evening rise	683 May 26 j 19:32	15°♎32'22			684 May 10 j 00:54	0°♎	
	683 Jun 03 j 02:47	0°♎			684 May 26 j 10:53	0°♎	
	683 Jun 23 j 08:31	0°♎		evening max el	684 Jun 06 j 20:06	14°♎03'34	25°40'27
desc. node	683 Jun 23 j 14:16	0°♎15'25		desc. node	684 Jun 09 j 11:16	16°♎22'54	
evening max el	683 Jun 25 j 23:32	2°♎39'54	26°46'04	retrograde	684 Jun 20 j 21:12	21°♎14'18	
retrograde	683 Jul 09 j 22:44	9°♎55'00		evening set	684 Jun 26 j 18:49	19°♎51'40	
evening set	683 Jul 16 j 18:28	7°♎54'17		min. Earth dist.	684 Jul 01 j 08:25	17°♎10'54	0.58385 AU
min. Earth dist.	683 Jul 20 j 13:14	5°♎16'11	0.60439 AU	inferior conj	684 Jul 04 j 14:21	14°♎51'19	-4°49'49
inferior conj	683 Jul 23 j 20:07	2°♎33'19	-4°36'38	minimum elong	684 Jul 04 j 14:09	14°♎51'39	4°49'48

morning rise	684 Jul 12 j 11:58	10°☿30'38		retrograde	685 Jun 02 j 07:43	1°☿47'37	
direct	684 Jul 15 j 00:26	10°☿10'25		evening set	685 Jun 06 j 20:23	1°☿02'03	
morning max el	684 Jul 23 j 07:36	14°☿06'05	18°43'42		685 Jun 09 j 09:29	30°☿II	
asc. node	684 Jul 28 j 06:22	20°☿01'31		min. Earth dist.	685 Jun 12 j 22:24	28°II02'36	0.56571 AU
	684 Aug 03 j 07:38	0°♌		inferior conj	685 Jun 15 j 12:25	26°II25'38	-4°27'32
morning set	684 Aug 08 j 16:55	10°♌14'00		minimum elong	685 Jun 15 j 07:17	26°II33'43	4°26'48
				morning rise	685 Jun 23 j 20:56	22°II23'57	
superior conj	684 Aug 17 j 08:58	27°♌00'31	1°42'43	direct	685 Jun 26 j 12:28	22°II05'19	
minimum elong	684 Aug 17 j 10:54	27°♌09'36	1°42'37	morning max el	685 Jul 06 j 04:11	26°II34'08	19°40'15
	684 Aug 18 j 23:14	0°♍			685 Jul 09 j 08:38	0°☿	
max. Earth dist.	684 Aug 24 j 11:06	9°♍58'26	1.39423 AU	asc. node	685 Jul 15 j 03:24	8°☿25'06	
evening rise	684 Aug 28 j 12:01	16°♍58'07		morning set	685 Jul 23 j 18:46	24°☿39'03	
desc. node	684 Sep 05 j 10:38	29°♍56'45			685 Jul 26 j 10:17	0°♌	
	684 Sep 05 j 11:28	0°♎					
	684 Sep 26 j 17:33	0°♎		superior conj	685 Jul 31 j 17:37	10°♌39'24	1°46'40
evening max el	684 Oct 02 j 18:08	6°♎42'08	24°08'11	minimum elong	685 Jul 31 j 17:36	10°♌39'20	1°46'40
retrograde	684 Oct 13 j 19:49	13°♎12'01		max. Earth dist.	685 Aug 06 j 14:58	21°♌59'45	1.37426 AU
evening set	684 Oct 19 j 03:01	10°♎58'57		evening rise	685 Aug 10 j 10:15	28°♌57'01	
min. Earth dist.	684 Oct 23 j 21:19	5°♎28'37	0.67557 AU		685 Aug 11 j 00:23	0°♍	
asc. node	684 Oct 24 j 05:34	5°♎00'47		desc. node	685 Aug 23 j 07:39	20°♍22'49	
inferior conj	684 Oct 24 j 12:48	4°♎36'18	0°06'15		685 Aug 29 j 19:14	0°♎	
minimum elong	684 Oct 24 j 12:39	4°♎36'49	0°06'11	evening max el	685 Sep 15 j 05:59	20°♎20'11	25°23'34
transit middle	684 Oct 24 j 12:39	4°♎36'49	0°06'11	retrograde	685 Sep 27 j 06:52	27°♎16'01	
transit begin	684 Oct 24 j 10:07	4°♎45'21		evening set	685 Oct 03 j 04:41	24°♎46'56	
transit end	684 Oct 24 j 15:10	4°♎28'18		min. Earth dist.	685 Oct 07 j 14:53	19°♎51'48	0.67060 AU
	684 Oct 28 j 06:10	30°☿♎		inferior conj	685 Oct 08 j 17:08	18°♎26'52	-0°49'27
morning rise	684 Oct 29 j 22:15	28°♎30'45		minimum elong	685 Oct 08 j 18:23	18°♎22'48	0°48'54
direct	684 Nov 02 j 19:28	27°♎04'47		asc. node	685 Oct 11 j 02:37	15°♎28'24	
	684 Nov 08 j 23:43	0°♏		morning rise	685 Oct 14 j 08:14	12°♎29'05	
morning max el	684 Nov 10 j 19:32	1°♏42'28	20°32'22	direct	685 Oct 17 j 17:55	11°♎22'08	
	684 Dec 01 j 13:16	0°♐		morning max el	685 Oct 24 j 23:11	15°♎27'29	19°28'27
desc. node	684 Dec 02 j 09:54	1°♐18'03			685 Nov 05 j 01:01	0°♏	
morning set	684 Dec 09 j 07:31	11°♐52'59		morning set	685 Nov 18 j 06:33	20°♏13'16	
max. Earth dist.	684 Dec 18 j 19:30	26°♐54'00	1.43279 AU	desc. node	685 Nov 19 j 06:56	21°♏47'51	
	684 Dec 20 j 17:25	0°♑			685 Nov 24 j 13:22	0°♐	
				max. Earth dist.	685 Dec 01 j 09:18	10°♐44'17	1.44514 AU
superior conj	684 Dec 25 j 04:28	7°♑20'40	-1°56'49				
minimum elong	684 Dec 25 j 00:05	7°♑02'23	1°56'37	superior conj	685 Dec 05 j 01:08	16°♐33'38	-1°32'32
evening rise	685 Jan 06 j 11:17	28°♑26'48		minimum elong	685 Dec 04 j 16:49	16°♐00'23	1°31'45
	685 Jan 07 j 08:29	0°♒			685 Dec 13 j 08:10	0°♑	
asc. node	685 Jan 20 j 04:50	21°♒13'20		evening rise	685 Dec 19 j 05:03	9°♑44'08	
evening max el	685 Jan 23 j 18:32	25°♒29'22	18°08'25		685 Dec 31 j 13:32	0°♒	
retrograde	685 Jan 30 j 06:59	28°♒53'52		asc. node	686 Jan 07 j 01:54	8°♒36'31	
evening set	685 Feb 02 j 02:00	28°♒15'34		evening max el	686 Jan 07 j 07:03	8°♒49'47	18°23'24
inferior conj	685 Feb 08 j 10:23	23°♒07'04	3°47'26	retrograde	686 Jan 13 j 19:19	12°♒22'48	
minimum elong	685 Feb 08 j 10:44	23°♒06'09	3°47'26	evening set	686 Jan 16 j 19:15	11°♒33'51	
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morning rise	685 Feb 14 j 18:18	17°♒10'20		minimum elong	686 Jan 22 j 16:44	6°♒09'49	3°42'50
direct	685 Feb 21 j 17:26	14°♒37'12		min. Earth dist.	686 Jan 25 j 00:10	3°♒31'27	0.64065 AU
desc. node	685 Feb 28 j 09:04	16°♒37'35		morning rise	686 Jan 28 j 13:39	0°♒00'55	
morning max el	685 Mar 07 j 18:13	22°♒30'19	27°48'13		686 Jan 28 j 14:06	30°☿♑	
	685 Mar 14 j 09:23	0°♒		direct	686 Feb 04 j 11:32	27°♑11'36	
	685 Apr 02 j 18:57	0°♓			686 Feb 12 j 04:03	0°♒	
morning set	685 Apr 10 j 07:07	14°♓28'39		desc. node	686 Feb 15 j 06:07	2°♒22'26	
max. Earth dist.	685 Apr 15 j 23:51	26°♓25'44	1.32627 AU	morning max el	686 Feb 18 j 02:45	5°♒02'09	27°31'12
					686 Mar 09 j 01:19	0°♒	
superior conj	685 Apr 17 j 18:15	0°♓15'05	-0°04'22	morning set	686 Mar 25 j 02:31	28°♒27'47	
minimum elong	685 Apr 17 j 18:27	0°♓16'12	0°04'20		686 Mar 25 j 21:07	0°♓	
behind sun begin	685 Apr 17 j 13:28	29°♓49'09		max. Earth dist.	686 Mar 30 j 02:16	8°♓36'10	1.33373 AU
behind sun end	685 Apr 17 j 23:26	0°♓43'16					
	685 Apr 17 j 15:28	0°♓		superior conj	686 Apr 02 j 00:31	14°♓46'45	-0°31'28
asc. node	685 Apr 18 j 04:08	1°♓08'45		minimum elong	686 Apr 02 j 02:03	14°♓54'57	0°31'09
evening rise	685 Apr 24 j 17:18	15°♓18'31		asc. node	686 Apr 05 j 01:11	21°♓15'52	
	685 May 02 j 01:44	0°♐		evening rise	686 Apr 09 j 04:49	0°♓07'05	
evening max el	685 May 19 j 11:17	24°♐49'12	24°12'36		686 Apr 09 j 03:28	0°♓	
	685 May 26 j 10:17	0°☿			686 Apr 26 j 07:59	0°♐	
desc. node	685 May 27 j 08:18	0°☿26'27		evening max el	686 May 01 j 02:29	5°♐21'17	22°36'49

retrograde	686 May 14 j 05:38	11° Π 51'23		retrograde	687 Apr 24 j 19:36	21° \mathcal{B} 54'14	
desc. node	686 May 14 j 05:20	11° Π 51'23		evening set	687 Apr 27 j 01:53	21° \mathcal{B} 42'19	
evening set	686 May 17 j 08:45	11° Π 29'52		desc. node	687 May 01 j 02:20	20° \mathcal{B} 28'28	
min. Earth dist.	686 May 25 j 10:28	7° Π 59'11	0.55339 AU	inferior conj	687 May 06 j 10:19	17° \mathcal{B} 43'24	-1°31'42
inferior conj	686 May 26 j 16:04	7° Π 17'03	-3°19'25	minimum elong	687 May 06 j 06:00	17° \mathcal{B} 49'29	1°30'10
minimum elong	686 May 26 j 08:34	7° Π 27'44	3°17'23	min. Earth dist.	687 May 06 j 23:09	17° \mathcal{B} 25'16	0.54962 AU
morning rise	686 Jun 04 j 10:33	3° Π 24'13		morning rise	687 May 15 j 10:12	13° \mathcal{B} 40'55	
direct	686 Jun 07 j 06:52	3° Π 05'34		direct	687 May 18 j 16:43	13° \mathcal{B} 17'47	
morning max el	686 Jun 18 j 13:42	8° Π 20'11	20°57'21	morning max el	687 May 31 j 12:46	19° \mathcal{B} 25'08	22°31'01
asc. node	686 Jul 02 j 00:27	27° Π 24'37			687 Jun 09 j 06:03	0° Π	
	686 Jul 03 j 09:28	0° \mathcal{E}		asc. node	687 Jun 18 j 21:30	16° Π 51'17	
morning set	686 Jul 08 j 01:54	9° \mathcal{E} 20'55		morning set	687 Jun 22 j 12:16	24° Π 13'52	
					687 Jun 25 j 05:48	0° \mathcal{E}	
superior conj	686 Jul 15 j 13:16	24° \mathcal{E} 52'07	1°42'43	superior conj	687 Jun 29 j 16:30	9° \mathcal{E} 28'30	1°32'31
minimum elong	686 Jul 15 j 11:50	24° \mathcal{E} 44'45	1°42'39	minimum elong	687 Jun 29 j 14:16	9° \mathcal{E} 16'40	1°32'18
	686 Jul 18 j 01:46	0° \mathcal{Q}		max. Earth dist.	687 Jul 02 j 17:46	15° \mathcal{E} 52'28	1.34219 AU
max. Earth dist.	686 Jul 19 j 23:57	3° \mathcal{Q} 50'10	1.35646 AU	evening rise	687 Jul 07 j 13:19	25° \mathcal{E} 34'46	
evening rise	686 Jul 24 j 04:16	11° \mathcal{Q} 53'20			687 Jul 09 j 20:20	0° \mathcal{Q}	
	686 Aug 03 j 11:32	0° \mathcal{M}			687 Jul 27 j 21:30	0° \mathcal{M}	
desc. node	686 Aug 10 j 04:41	10° \mathcal{M} 31'28		desc. node	687 Jul 28 j 01:42	0° \mathcal{M} 15'03	
	686 Aug 24 j 22:56	0° \mathcal{L}		evening max el	687 Aug 11 j 05:43	17° \mathcal{M} 25'35	27°09'30
evening max el	686 Aug 28 j 17:50	3° \mathcal{L} 57'15	26°26'32	retrograde	687 Aug 24 j 13:45	24° \mathcal{M} 44'33	
retrograde	686 Sep 10 j 12:57	11° \mathcal{L} 09'13		evening set	687 Aug 31 j 12:34	21° \mathcal{M} 59'17	
evening set	686 Sep 17 j 00:41	8° \mathcal{L} 28'14		min. Earth dist.	687 Sep 04 j 08:18	18° \mathcal{M} 17'40	0.65024 AU
min. Earth dist.	686 Sep 21 j 03:16	4° \mathcal{L} 09'58	0.66222 AU	inferior conj	687 Sep 06 j 10:53	15° \mathcal{M} 56'13	-2°42'25
inferior conj	686 Sep 22 j 17:13	2° \mathcal{L} 14'43	-1°46'23	minimum elong	687 Sep 06 j 14:59	15° \mathcal{M} 44'41	2°40'59
minimum elong	686 Sep 22 j 19:58	2° \mathcal{L} 06'21	1°45'16	morning rise	687 Sep 12 j 18:12	10° \mathcal{M} 22'59	
	686 Sep 24 j 14:50	30° \mathcal{R} \mathcal{M}		asc. node	687 Sep 14 j 20:43	9° \mathcal{M} 45'33	
asc. node	686 Sep 27 j 23:41	26° \mathcal{M} 52'38		direct	687 Sep 15 j 11:28	9° \mathcal{M} 43'31	
morning rise	686 Sep 28 j 15:41	26° \mathcal{M} 27'43		morning max el	687 Sep 21 j 23:57	13° \mathcal{M} 13'56	18°07'54
direct	686 Oct 01 j 15:58	25° \mathcal{M} 36'22			687 Oct 03 j 18:42	0° \mathcal{L}	
morning max el	686 Oct 08 j 09:26	29° \mathcal{M} 19'35	18°39'54	morning set	687 Oct 10 j 04:05	10° \mathcal{L} 35'24	
	686 Oct 09 j 00:58	0° \mathcal{L}			687 Oct 22 j 01:01	0° \mathcal{M}	
morning set	686 Oct 29 j 02:52	29° \mathcal{L} 41'31		superior conj	687 Oct 24 j 08:39	3° \mathcal{M} 42'13	-0°02'07
	686 Oct 29 j 07:31	0° \mathcal{M}		minimum elong	687 Oct 24 j 08:23	3° \mathcal{M} 41'10	0°02'06
desc. node	686 Nov 06 j 03:59	12° \mathcal{M} 26'55		behind sun begin	687 Oct 23 j 21:39	2° \mathcal{M} 58'24	
superior conj	686 Nov 14 j 03:42	25° \mathcal{M} 01'10	-0°51'10	behind sun end	687 Oct 24 j 19:08	4° \mathcal{M} 23'54	
minimum elong	686 Nov 13 j 21:13	24° \mathcal{M} 35'43	0°50'21	desc. node	687 Oct 24 j 01:02	3° \mathcal{M} 11'53	
max. Earth dist.	686 Nov 14 j 03:23	24° \mathcal{M} 59'54	1.45057 AU	max. Earth dist.	687 Oct 27 j 22:09	9° \mathcal{M} 20'56	1.44860 AU
	686 Nov 17 j 07:44	0° \mathcal{X}		evening rise	687 Nov 09 j 19:49	29° \mathcal{M} 29'24	
evening rise	686 Nov 29 j 23:30	20° \mathcal{X} 03'03			687 Nov 10 j 03:43	0° \mathcal{X}	
	686 Dec 06 j 04:56	0° \mathcal{Z}		greatest brilliancy	687 Nov 22 j 20:34	19° \mathcal{X} 28'23	-0.7m
greatest brilliancy	686 Dec 07 j 20:12	2° \mathcal{Z} 36'13	-0.8m		687 Nov 30 j 05:17	0° \mathcal{Z}	
evening max el	686 Dec 21 j 17:36	22° \mathcal{Z} 15'27	18°56'16	evening max el	687 Dec 05 j 00:10	5° \mathcal{Z} 43'39	19°45'31
asc. node	686 Dec 24 j 22:58	24° \mathcal{Z} 57'31		asc. node	687 Dec 11 j 20:00	10° \mathcal{Z} 01'42	
retrograde	686 Dec 28 j 13:39	26° \mathcal{Z} 07'42		retrograde	687 Dec 12 j 10:54	10° \mathcal{Z} 03'52	
evening set	686 Dec 31 j 19:27	25° \mathcal{Z} 07'04		evening set	687 Dec 16 j 00:06	8° \mathcal{Z} 50'04	
inferior conj	687 Jan 06 j 11:37	19° \mathcal{Z} 22'02	3°23'21	inferior conj	687 Dec 21 j 11:54	2° \mathcal{Z} 50'47	2°52'39
minimum elong	687 Jan 06 j 09:14	19° \mathcal{Z} 29'28	3°22'55	minimum elong	687 Dec 21 j 09:10	2° \mathcal{Z} 59'50	2°51'55
min. Earth dist.	687 Jan 08 j 02:22	17° \mathcal{Z} 21'25	0.65545 AU	min. Earth dist.	687 Dec 22 j 12:38	1° \mathcal{Z} 29'05	0.66632 AU
morning rise	687 Jan 11 j 22:42	13° \mathcal{Z} 11'58			687 Dec 23 j 16:18	30° \mathcal{R} \mathcal{X}	
direct	687 Jan 18 j 12:14	10° \mathcal{Z} 20'52		morning rise	687 Dec 26 j 18:00	26° \mathcal{X} 38'01	
morning max el	687 Jan 31 j 12:39	17° \mathcal{Z} 59'15	26°42'42	direct	688 Jan 01 j 18:57	23° \mathcal{X} 56'54	
desc. node	687 Feb 02 j 03:09	19° \mathcal{Z} 39'14			688 Jan 12 j 17:26	0° \mathcal{Z}	
	687 Feb 10 j 15:40	0° \mathcal{A}		morning max el	688 Jan 13 j 21:45	1° \mathcal{Z} 09'24	25°31'01
	687 Mar 01 j 23:44	0° \mathcal{H}		desc. node	688 Jan 20 j 00:13	8° \mathcal{Z} 01'38	
morning set	687 Mar 08 j 11:02	11° \mathcal{H} 50'07			688 Feb 04 j 16:14	0° \mathcal{A}	
max. Earth dist.	687 Mar 12 j 18:11	20° \mathcal{H} 12'47	1.34557 AU	morning set	688 Feb 19 j 04:04	24° \mathcal{A} 22'11	
superior conj	687 Mar 17 j 01:04	28° \mathcal{H} 56'21	-0°58'34		688 Feb 22 j 05:12	0° \mathcal{H}	
minimum elong	687 Mar 17 j 03:54	29° \mathcal{H} 11'05	0°58'02	max. Earth dist.	688 Feb 22 j 22:07	1° \mathcal{H} 19'42	1.36189 AU
	687 Mar 17 j 13:20	0° \mathcal{Y}		superior conj	688 Feb 28 j 17:10	12° \mathcal{H} 36'08	-1°24'00
asc. node	687 Mar 22 j 22:15	11° \mathcal{Y} 15'27		minimum elong	688 Feb 28 j 20:59	12° \mathcal{H} 55'09	1°23'26
evening rise	687 Mar 24 j 14:13	14° \mathcal{Y} 43'50		evening rise	688 Mar 07 j 19:26	29° \mathcal{H} 02'09	
	687 Apr 01 j 10:02	0° \mathcal{B}			688 Mar 08 j 06:52	0° \mathcal{Y}	
evening max el	687 Apr 13 j 00:57	16° \mathcal{B} 10'43	21°07'26				

asc. node	688 Mar 08 j 19:18	1°♈02'40		evening rise	689 Feb 19 j 18:02	12°♎55'27	
evening max el	688 Mar 25 j 10:42	27°♈36'10	19°53'20	asc. node	689 Feb 23 j 16:20	20°♎32'29	
	688 Mar 28 j 08:19	0°♎			689 Feb 28 j 23:48	0°♈	
retrograde	688 Apr 04 j 12:01	2°♎26'13		evening max el	689 Mar 08 j 07:24	9°♈40'27	18°58'18
evening set	688 Apr 06 j 13:45	2°♎14'49		retrograde	689 Mar 16 j 18:43	13°♈46'09	
	688 Apr 12 j 09:30	30°♎		evening set	689 Mar 19 j 00:34	13°♈30'07	
inferior conj	688 Apr 15 j 09:28	28°♈14'07	0°27'06	inferior conj	689 Mar 27 j 01:21	9°♈14'39	2°05'20
minimum elong	688 Apr 15 j 10:39	28°♈12'17	0°26'41	minimum elong	689 Mar 27 j 05:27	9°♈07'24	2°04'08
desc. node	688 Apr 16 j 23:22	27°♈15'57		min. Earth dist.	689 Mar 30 j 05:16	7°♈01'39	0.56978 AU
min. Earth dist.	688 Apr 17 j 13:18	26°♈54'52	0.55552 AU	desc. node	689 Apr 03 j 20:24	4°♈22'54	
morning rise	688 Apr 24 j 05:16	23°♈44'06		morning rise	689 Apr 04 j 07:17	4°♈11'25	
direct	688 Apr 28 j 08:10	23°♈06'33		direct	689 Apr 09 j 12:45	3°♈06'21	
morning max el	688 May 12 j 04:49	0°♎00'25	24°12'16	morning max el	689 Apr 23 j 19:36	10°♈30'47	25°47'16
	688 May 12 j 04:39	0°♎			689 May 08 j 16:06	0°♎	
	688 Jun 01 j 11:52	0°♊		morning set	689 May 21 j 11:40	24°♎08'03	
asc. node	688 Jun 04 j 18:33	6°♊37'04		asc. node	689 May 22 j 15:36	26°♎36'08	
morning set	688 Jun 06 j 00:04	9°♊11'20			689 May 24 j 05:31	0°♊	
superior conj	688 Jun 13 j 00:34	24°♊18'59	1°17'20	superior conj	689 May 28 j 11:24	9°♊16'35	0°58'07
minimum elong	688 Jun 12 j 22:06	24°♊05'39	1°16'58	minimum elong	689 May 28 j 09:12	9°♊04'33	0°57'44
max. Earth dist.	688 Jun 14 j 20:34	28°♊15'58	1.33192 AU	max. Earth dist.	689 May 29 j 06:02	10°♊58'36	1.32557 AU
	688 Jun 15 j 16:02	0°♎		evening rise	689 Jun 04 j 12:32	24°♊23'52	
evening rise	688 Jun 20 j 09:09	9°♎48'20			689 Jun 07 j 06:39	0°♎	
	688 Jul 01 j 04:42	0°♏			689 Jun 24 j 22:06	0°♏	
desc. node	688 Jul 13 j 22:43	19°♏22'05		desc. node	689 Jun 30 j 19:42	7°♏37'26	
	688 Jul 23 j 02:35	0°♐		evening max el	689 Jul 05 j 23:15	13°♏07'11	27°10'05
evening max el	688 Jul 23 j 16:17	0°♐33'03	27°25'42	retrograde	689 Jul 19 j 20:24	20°♏23'03	
retrograde	688 Aug 06 j 08:33	7°♐52'09		evening set	689 Jul 26 j 22:34	18°♏05'08	
evening set	688 Aug 13 j 13:12	5°♐13'53		min. Earth dist.	689 Jul 30 j 13:28	15°♏19'53	0.61609 AU
min. Earth dist.	688 Aug 17 j 04:05	2°♐05'03	0.63470 AU	inferior conj	689 Aug 02 j 16:02	12°♏33'24	-4°18'17
	688 Aug 19 j 05:43	30°♐		minimum elong	689 Aug 02 j 20:36	12°♏23'10	4°17'26
inferior conj	688 Aug 19 j 19:31	29°♏24'51	-3°34'38	morning rise	689 Aug 09 j 20:10	7°♏37'13	
minimum elong	688 Aug 20 j 00:27	29°♏12'23	3°33'16	direct	689 Aug 12 j 07:10	7°♏11'46	
morning rise	688 Aug 26 j 12:52	24°♏08'35		asc. node	689 Aug 18 j 14:48	10°♏04'53	
direct	688 Aug 29 j 01:40	23°♏37'34		morning max el	689 Aug 19 j 06:14	10°♏40'58	17°57'15
asc. node	688 Aug 31 j 17:45	24°♏12'37			689 Sep 01 j 00:52	0°♐	
morning max el	688 Sep 04 j 15:51	27°♏03'16	17°53'21	morning set	689 Sep 04 j 04:38	5°♐44'40	
	688 Sep 07 j 05:53	0°♐		superior conj	689 Sep 14 j 15:58	24°♐32'10	1°15'37
morning set	688 Sep 21 j 06:43	22°♐42'22		minimum elong	689 Sep 14 j 20:40	24°♐52'37	1°15'06
	688 Sep 25 j 11:37	0°♑			689 Sep 17 j 20:12	0°♑	
superior conj	688 Oct 03 j 10:39	13°♑27'00	0°42'29	max. Earth dist.	689 Sep 22 j 03:04	7°♑10'31	1.42471 AU
minimum elong	688 Oct 03 j 14:46	13°♑44'02	0°41'56	desc. node	689 Sep 26 j 19:04	14°♑44'55	
max. Earth dist.	688 Oct 09 j 14:39	23°♑29'18	1.43958 AU	evening rise	689 Sep 28 j 16:17	17°♑44'31	
desc. node	688 Oct 09 j 22:04	23°♑59'00			689 Oct 06 j 14:57	0°♒	
	688 Oct 13 j 17:04	0°♒			689 Oct 28 j 08:50	0°♒	
evening rise	688 Oct 19 j 03:38	8°♒28'32		evening max el	689 Oct 30 j 21:02	2°♒42'55	22°02'48
	688 Nov 02 j 10:40	0°♒		retrograde	689 Nov 09 j 04:50	8°♒15'39	
evening max el	688 Nov 17 j 01:26	19°♒13'00	20°48'54	evening set	689 Nov 13 j 14:53	6°♒30'03	
retrograde	688 Nov 25 j 08:34	24°♒07'40		asc. node	689 Nov 14 j 14:03	5°♒38'21	
asc. node	688 Nov 27 j 17:01	23°♒36'27		inferior conj	689 Nov 18 j 23:14	0°♒11'59	1°27'51
evening set	688 Nov 29 j 07:11	22°♒38'50		minimum elong	689 Nov 18 j 21:21	0°♒18'29	1°27'06
inferior conj	688 Dec 04 j 16:28	16°♒28'30	2°13'32	min. Earth dist.	689 Nov 19 j 00:13	0°♒08'34	0.67681 AU
minimum elong	688 Dec 04 j 13:56	16°♒37'10	2°12'40		689 Nov 19 j 02:42	30°♒	
min. Earth dist.	688 Dec 05 j 04:43	15°♒46'35	0.67334 AU	morning rise	689 Nov 24 j 03:41	24°♒00'01	
morning rise	688 Dec 09 j 20:30	10°♒15'07		direct	689 Nov 28 j 22:50	21°♒59'11	
direct	688 Dec 15 j 06:46	7°♒52'06		morning max el	689 Dec 08 j 16:16	27°♒44'47	22°38'16
morning max el	688 Dec 26 j 06:04	14°♒24'47	24°06'15		689 Dec 10 j 19:06	0°♒	
desc. node	689 Jan 05 j 21:17	27°♒10'41		desc. node	689 Dec 23 j 18:19	16°♒52'20	
	689 Jan 07 j 23:04	0°♓			690 Jan 01 j 15:30	0°♓	
	689 Jan 27 j 13:54	0°♓		morning set	690 Jan 11 j 15:49	15°♓50'39	
morning set	689 Jan 30 j 23:43	5°♓47'43		max. Earth dist.	690 Jan 16 j 14:01	24°♓04'39	1.40325 AU
max. Earth dist.	689 Feb 03 j 17:59	12°♓24'30	1.38184 AU		690 Jan 20 j 00:19	0°♓	
superior conj	689 Feb 10 j 21:23	25°♓37'07	-1°45'26	superior conj	690 Jan 24 j 09:06	7°♓46'37	-1°59'39
minimum elong	689 Feb 11 j 01:18	25°♓55'46	1°45'03	minimum elong	690 Jan 24 j 11:28	7°♓57'24	1°59'34
	689 Feb 13 j 04:03	0°♈		evening rise	690 Feb 03 j 06:55	26°♓15'20	

	690 Feb 05 j 06:31	0°♄		asc. node	691 Jan 28 j 10:24	28°♊11'47	
asc. node	690 Feb 10 j 13:22	9°♄38'01			691 Jan 29 j 15:43	0°♄	
evening max el	690 Feb 19 j 12:23	22°♄16'06	18°23'17	evening max el	691 Feb 02 j 22:34	5°♄15'00	18°08'12
retrograde	690 Feb 26 j 20:34	25°♄53'47		retrograde	691 Feb 09 j 15:23	8°♄40'35	
evening set	690 Mar 01 j 07:56	25°♄30'13		evening set	691 Feb 12 j 07:36	8°♄08'02	
inferior conj	690 Mar 08 j 14:19	20°♄54'19	3°09'18	inferior conj	691 Feb 18 j 22:56	3°♄11'02	3°40'59
minimum elong	690 Mar 08 j 17:56	20°♄46'49	3°08'36	minimum elong	691 Feb 19 j 00:32	3°♄07'14	3°40'51
min. Earth dist.	690 Mar 12 j 00:47	18°♄05'22	0.58927 AU	min. Earth dist.	691 Feb 22 j 03:05	0°♄10'18	0.61044 AU
morning rise	690 Mar 16 j 01:25	15°♄23'08			691 Feb 22 j 07:38	30°♄	
desc. node	690 Mar 21 j 17:27	13°♄42'26		morning rise	691 Feb 25 j 15:48	27°♊21'04	
direct	690 Mar 22 j 06:20	13°♄41'41		direct	691 Mar 04 j 11:07	25°♊04'07	
morning max el	690 Apr 05 j 14:33	21°♄23'19	27°00'54	desc. node	691 Mar 08 j 14:31	25°♊50'44	
	690 Apr 13 j 02:41	0°♄			691 Mar 15 j 10:39	0°♄	
	690 May 01 j 11:10	0°♄		morning max el	691 Mar 18 j 15:58	2°♄55'18	27°41'40
morning set	690 May 05 j 21:26	8°♄57'52			691 Apr 07 j 13:22	0°♄	
asc. node	690 May 09 j 12:39	16°♄42'58		morning set	691 Apr 20 j 03:30	23°♄34'28	
					691 Apr 23 j 05:05	0°♄	
superior conj	690 May 12 j 23:10	24°♄14'31	0°35'42	asc. node	691 Apr 26 j 09:41	6°♄53'15	
minimum elong	690 May 12 j 21:40	24°♄06'12	0°35'23	max. Earth dist.	691 Apr 26 j 06:21	6°♄35'02	1.32393 AU
max. Earth dist.	690 May 12 j 18:37	23°♄49'29	1.32290 AU				
	690 May 15 j 14:07	0°♄		superior conj	691 Apr 27 j 10:13	9°♄07'10	0°10'49
evening rise	690 May 19 j 20:48	9°♄12'10		minimum elong	691 Apr 27 j 09:44	9°♄04'28	0°10'42
	690 May 30 j 15:50	0°♄		behind sun begin	691 Apr 27 j 05:58	8°♄43'53	
desc. node	690 Jun 17 j 16:42	24°♄39'41		behind sun end	691 Apr 27 j 13:30	9°♄25'05	
evening max el	690 Jun 17 j 23:57	24°♄57'05	26°21'31	evening rise	691 May 04 j 07:49	24°♄05'47	
	690 Jun 24 j 14:07	0°♄			691 May 07 j 04:00	0°♄	
retrograde	690 Jul 01 j 23:55	2°♄09'50			691 May 25 j 06:36	0°♄	
evening set	690 Jul 08 j 12:05	0°♄24'37		evening max el	691 May 30 j 17:36	6°♄01'38	25°04'51
	690 Jul 09 j 05:55	30°♄		desc. node	691 Jun 04 j 13:44	9°♄58'59	
min. Earth dist.	690 Jul 12 j 12:55	27°♄47'46	0.59563 AU	retrograde	691 Jun 13 j 17:37	13°♄08'59	
inferior conj	690 Jul 15 j 20:51	25°♄12'31	-4°45'42	evening set	691 Jun 19 j 02:23	12°♄02'44	
minimum elong	690 Jul 15 j 23:04	25°♄08'12	4°45'32	min. Earth dist.	691 Jun 24 j 05:10	9°♄15'54	0.57564 AU
morning rise	690 Jul 23 j 12:06	20°♄38'58		inferior conj	691 Jun 27 j 06:37	7°♄12'10	-4°45'28
direct	690 Jul 25 j 23:40	20°♄17'08		minimum elong	691 Jun 27 j 04:19	7°♄16'04	4°45'20
morning max el	690 Aug 02 j 16:07	23°♄59'22	18°20'53	morning rise	691 Jul 05 j 08:58	3°♄00'46	
asc. node	690 Aug 05 j 11:52	27°♄07'39		direct	691 Jul 07 j 22:40	2°♄41'22	
	690 Aug 07 j 14:33	0°♄		morning max el	691 Jul 16 j 18:27	6°♄49'02	19°05'15
morning set	690 Aug 18 j 16:31	19°♄27'43		asc. node	691 Jul 23 j 08:56	15°♄05'35	
	690 Aug 24 j 05:29	0°♄			691 Jul 31 j 17:24	0°♄	
				morning set	691 Aug 02 j 14:11	3°♄39'51	
superior conj	690 Aug 27 j 21:42	6°♄50'10	1°36'06				
minimum elong	690 Aug 28 j 00:50	7°♄04'29	1°35'52	superior conj	691 Aug 10 j 22:06	20°♄04'16	1°45'29
max. Earth dist.	690 Sep 04 j 10:15	20°♄11'47	1.40586 AU	minimum elong	691 Aug 10 j 23:10	20°♄09'20	1°45'27
evening rise	690 Sep 09 j 00:30	27°♄55'37			691 Aug 16 j 04:44	0°♄	
	690 Sep 10 j 06:50	0°♄		max. Earth dist.	691 Aug 17 j 13:33	2°♄29'25	1.38553 AU
desc. node	690 Sep 13 j 16:04	5°♄26'35		evening rise	691 Aug 21 j 09:21	9°♄15'59	
	690 Sep 30 j 05:40	0°♄		desc. node	691 Aug 31 j 13:04	25°♄59'34	
evening max el	690 Oct 10 j 11:53	16°♄14'50	23°22'17		691 Sep 03 j 03:27	0°♄	
retrograde	690 Oct 23 j 22:21	22°♄25'22		evening max el	691 Sep 25 j 23:59	29°♄49'47	24°41'14
evening set	690 Oct 28 j 21:34	20°♄22'01			691 Sep 26 j 04:08	0°♄	
asc. node	690 Nov 01 j 11:05	16°♄26'18		retrograde	691 Oct 07 j 12:08	6°♄32'30	
inferior conj	690 Nov 03 j 06:26	13°♄59'51	0°37'10	evening set	691 Oct 13 j 01:35	4°♄12'01	
minimum elong	690 Nov 03 j 05:34	14°♄02'50	0°36'48		691 Oct 16 j 20:51	30°♄	
min. Earth dist.	690 Nov 02 j 20:51	14°♄32'43	0.67694 AU	min. Earth dist.	691 Oct 17 j 16:14	28°♄56'33	0.67383 AU
morning rise	690 Nov 08 j 13:30	7°♄51'28		inferior conj	691 Oct 18 j 12:18	27°♄49'46	-0°17'09
direct	690 Nov 12 j 18:14	6°♄13'23		minimum elong	691 Oct 18 j 12:44	27°♄48'21	0°16'57
morning max el	690 Nov 21 j 08:01	11°♄13'42	21°15'26	asc. node	691 Oct 19 j 08:10	26°♄44'09	
	690 Dec 05 j 21:25	0°♄		morning rise	691 Oct 23 j 23:58	21°♄47'19	
desc. node	690 Dec 10 j 15:21	6°♄57'40		direct	691 Oct 27 j 15:55	20°♄30'03	
morning set	690 Dec 22 j 03:35	24°♄34'23		morning max el	691 Nov 04 j 07:19	24°♄52'56	20°03'26
	690 Dec 25 j 13:38	0°♄			691 Nov 08 j 17:38	0°♄	
max. Earth dist.	690 Dec 29 j 16:16	6°♄39'31	1.42311 AU	desc. node	691 Nov 27 j 12:23	27°♄19'33	
					691 Nov 29 j 06:10	0°♄	
superior conj	691 Jan 05 j 22:57	18°♄52'02	-2°02'22	morning set	691 Nov 30 j 23:58	2°♄41'13	
minimum elong	691 Jan 05 j 21:32	18°♄45'56	2°02'21	max. Earth dist.	691 Dec 12 j 01:43	20°♄03'58	1.43875 AU
	691 Jan 12 j 07:38	0°♄					
evening rise	691 Jan 17 j 06:26	8°♄54'03		superior conj	691 Dec 17 j 10:31	28°♄44'04	-1°48'51

minimum elong	691 Dec 17 j 04:02	28°  17'35	1°48'24	minimum elong	692 Nov 25 j 13:13	6°  58'40	1°15'46
	691 Dec 18 j 05:05	0° 			692 Dec 09 j 21:12	0° 	
evening rise	691 Dec 30 j 12:14	20°  42'36		evening rise	692 Dec 10 j 20:12	1°  34'05	
	692 Jan 04 j 21:55	0° 			692 Dec 29 j 06:34	0° 	
asc. node	692 Jan 15 j 07:27	16°  03'56		evening max el	692 Dec 30 j 22:57	1°  51'52	18°35'23
evening max el	692 Jan 17 j 11:00	18°  29'08	18°12'33	asc. node	693 Jan 01 j 04:30	3°  02'00	
retrograde	692 Jan 23 j 22:31	21°  56'12		retrograde	693 Jan 06 j 13:41	5°  31'48	
evening set	692 Jan 26 j 19:26	21°  13'39		evening set	693 Jan 09 j 15:55	4°  38'09	
inferior conj	692 Feb 01 j 23:23	15°  56'43	3°47'42		693 Jan 14 j 16:19	30° 	
minimum elong	692 Feb 01 j 22:56	15°  57'57	3°47'42	inferior conj	693 Jan 15 j 11:38	29°  02'57	3°36'13
min. Earth dist.	692 Feb 04 j 14:24	13°  07'17	0.63038 AU	minimum elong	693 Jan 15 j 09:45	29°  08'34	3°35'58
morning rise	692 Feb 08 j 01:30	9°  55'42		min. Earth dist.	693 Jan 17 j 11:14	26°  41'34	0.64738 AU
direct	692 Feb 15 j 01:01	7°  13'41		morning rise	693 Jan 21 j 03:07	22°  55'31	
desc. node	692 Feb 23 j 11:35	10°  26'45		direct	693 Jan 27 j 22:17	20°  03'24	
morning max el	692 Feb 28 j 22:39	15°  07'42	27°45'18	desc. node	693 Feb 09 j 08:38	26°  53'47	
	692 Mar 12 j 02:12	0° 		morning max el	693 Feb 10 j 07:53	27°  50'45	27°14'01
	692 Mar 30 j 03:27	0° 			693 Feb 12 j 09:18	0° 	
morning set	692 Apr 03 j 03:39	7°  50'31			693 Mar 05 j 19:25	0° 	
max. Earth dist.	692 Apr 08 j 13:15	19°  01'49	1.32886 AU	morning set	693 Mar 17 j 18:52	21°  53'13	
					693 Mar 22 j 00:08	0° 	
superior conj	692 Apr 10 j 18:50	23°  58'53	-0°15'46	max. Earth dist.	693 Mar 22 j 11:14	0° 	1.33812 AU
minimum elong	692 Apr 10 j 19:35	23°  52'59	0°15'37				
behind sun begin	692 Apr 10 j 18:36	23°  47'40		superior conj	693 Mar 25 j 22:56	8°  12'03	-0°43'02
behind sun end	692 Apr 10 j 20:34	23°  58'18		minimum elong	693 Mar 26 j 01:03	8°  23'09	0°42'37
asc. node	692 Apr 12 j 06:45	27°  03'02		asc. node	693 Mar 30 j 03:47	17°  07'21	
	692 Apr 13 j 15:25	0° 		evening rise	693 Apr 02 j 06:30	23°  42'21	
evening rise	692 Apr 17 j 19:42	8°  58'22			693 Apr 05 j 08:01	0° 	
	692 Apr 28 j 18:55	0° 		evening max el	693 Apr 23 j 01:36	27°  15'13	21°57'31
evening max el	692 May 11 j 07:53	16°  38'17	23°31'55		693 Apr 26 j 07:13	0° 	
desc. node	692 May 21 j 10:47	22°  59'33		retrograde	693 May 05 j 16:45	3°  26'49	
retrograde	692 May 24 j 23:21	23°  27'49		evening set	693 May 08 j 08:46	3°  21'00	
evening set	692 May 28 j 20:41	22°  54'32		desc. node	693 May 08 j 07:50	3°  21'27	
min. Earth dist.	692 Jun 04 j 18:17	19°  43'02	0.55953 AU		693 May 16 j 04:03	30° 	
inferior conj	692 Jun 06 j 20:24	18°  28'10	-4°04'29	inferior conj	693 May 17 j 18:36	29°  06'15	-2°37'26
minimum elong	692 Jun 06 j 13:40	18°  38'15	4°03'08	minimum elong	693 May 17 j 11:49	29°  15'46	2°35'17
morning rise	692 Jun 15 j 09:25	14°  32'01		min. Earth dist.	693 May 17 j 06:44	29°  22'53	0.55064 AU
direct	692 Jun 18 j 02:21	14°  31'50		morning rise	693 May 26 j 16:11	25°  11'22	
morning max el	692 Jun 28 j 10:40	19°  01'05	20°10'37	direct	693 May 29 j 15:52	24°  51'30	
	692 Jul 07 j 00:16	0° 			693 Jun 10 j 02:45	0° 	
asc. node	692 Jul 09 j 06:00	3°  46'03		morning max el	693 Jun 10 j 15:28	0°  28'54	21°35'22
morning set	692 Jul 16 j 18:35	18°  13'03		asc. node	693 Jun 26 j 03:02	22°  57'58	
	692 Jul 22 j 12:42	0° 			693 Jun 29 j 16:19	0° 	
				morning set	693 Jul 01 j 03:20	3°  00'05	
superior conj	692 Jul 24 j 11:59	3°  59'32	1°45'50				
minimum elong	692 Jul 24 j 11:18	3°  56'03	1°45'50	superior conj	693 Jul 08 j 11:13	18°  23'08	1°39'04
max. Earth dist.	692 Jul 29 j 18:34	14°  21'28	1.36632 AU	minimum elong	693 Jul 08 j 09:23	18°  23'31	1°38'56
evening rise	692 Aug 02 j 16:41	21°  04'12		max. Earth dist.	693 Jul 12 j 07:03	26°  14'33	1.35001 AU
	692 Aug 07 j 08:57	0° 			693 Jul 14 j 04:14	0° 	
desc. node	692 Aug 17 j 10:06	16°  18'56		evening rise	693 Jul 16 j 17:41	4°  58'42	
	692 Aug 26 j 23:52	0° 			693 Jul 31 j 03:30	0° 	
evening max el	692 Sep 07 j 11:40	13°  27'44	25°52'16	desc. node	693 Aug 04 j 07:08	6°  17'51	
retrograde	692 Sep 19 j 21:19	20°  32'20		evening max el	693 Aug 20 j 23:50	27°  02'59	26°47'42
evening set	692 Sep 26 j 01:06	17°  57'33			693 Aug 24 j 08:07	0° 	
min. Earth dist.	692 Sep 30 j 07:59	13°  27'44	0.66745 AU	retrograde	693 Sep 03 j 01:11	4°  18'33	
inferior conj	692 Oct 01 j 15:05	11°  39'27	-1°13'34	evening set	693 Sep 09 j 17:58	1°  35'00	
minimum elong	692 Oct 01 j 16:58	11°  33'29	1°12'46		693 Sep 11 j 11:26	30° 	
asc. node	692 Oct 05 j 05:13	7°  29'55		min. Earth dist.	693 Sep 13 j 17:39	27°  32'09	0.65758 AU
morning rise	692 Oct 07 j 09:07	5°  45'43		inferior conj	693 Sep 15 j 12:44	25°  25'25	-2°10'23
direct	692 Oct 10 j 14:26	4°  45'58		minimum elong	693 Sep 15 j 16:06	25°  15'31	2°09'07
morning max el	692 Oct 17 j 13:59	8°  41'06	19°05'43	morning rise	693 Sep 21 j 14:47	19°  43'33	
	692 Nov 01 j 22:24	0° 		asc. node	693 Sep 22 j 02:15	19°  43'38	
morning set	692 Nov 09 j 05:53	11°  23'56		direct	693 Sep 24 j 11:48	18°  43'37	
desc. node	692 Nov 13 j 09:24	17°  53'13		morning max el	693 Oct 01 j 02:17	22°  34'24	18°24'06
	692 Nov 21 j 02:54	0° 			693 Oct 06 j 23:57	0° 	
max. Earth dist.	692 Nov 23 j 17:04	4°  04'30	1.44830 AU	morning set	693 Oct 20 j 14:31	21°  29'14	
					693 Oct 25 j 21:16	0° 	
superior conj	692 Nov 25 j 21:36	7°  31'48	-1°16'41	desc. node	693 Oct 31 j 06:26	8°  35'03	

superior conj	693 Nov 04 j 22:23	15°♍57'22	-0°30'31		694 Oct 18 j 13:13	0°♍	
minimum elong	693 Nov 04 j 18:24	15°♍41'38	0°29'59	max. Earth dist.	694 Oct 20 j 06:41	2°♍44'56	1.44562 AU
max. Earth dist.	693 Nov 06 j 11:53	18°♍24'54	1.45067 AU	evening rise	694 Oct 31 j 17:56	20°♍39'26	
	693 Nov 13 j 21:06	0°♌			694 Nov 06 j 20:15	0°♌	
evening rise	693 Nov 21 j 04:39	11°♌28'55		greatest brilliancy	694 Nov 14 j 21:35	12°♌06'41	-0.6m
greatest brilliancy	693 Dec 01 j 13:39	27°♌44'14	-0.8m	evening max el	694 Nov 27 j 12:31	28°♌47'48	20°10'55
	693 Dec 03 j 00:57	0°♋			694 Nov 28 j 18:02	0°♋	
evening max el	693 Dec 14 j 08:06	15°♋19'18	19°15'25	retrograde	694 Dec 05 j 07:07	3°♋21'45	
asc. node	693 Dec 19 j 01:33	18°♋52'14		asc. node	694 Dec 05 j 22:34	3°♋19'24	
retrograde	693 Dec 21 j 09:27	19°♋22'04		evening set	694 Dec 09 j 00:11	2°♋01'33	
evening set	693 Dec 24 j 18:16	18°♋15'55			694 Dec 11 j 05:14	30°♌♌	
inferior conj	693 Dec 30 j 08:20	12°♋24'37	3°11'30	inferior conj	694 Dec 14 j 10:41	25°♌♌57'01	2°36'55
minimum elong	693 Dec 30 j 05:43	12°♋32'59	3°10'55	minimum elong	694 Dec 14 j 07:58	26°♌♌06'08	2°36'07
min. Earth dist.	693 Dec 31 j 16:56	10°♋40'19	0.66058 AU	min. Earth dist.	694 Dec 15 j 05:49	24°♌♌52'39	0.66979 AU
morning rise	694 Jan 04 j 16:56	6°♋13'27		morning rise	694 Dec 19 j 15:35	19°♌♌43'55	
direct	694 Jan 11 j 01:38	3°♋25'18		direct	694 Dec 25 j 10:24	17°♌♌10'04	
morning max el	694 Jan 23 j 17:20	10°♋53'43	26°14'31	morning max el	695 Jan 06 j 02:00	24°♌♌06'27	24°56'00
desc. node	694 Jan 27 j 05:39	14°♋40'57			695 Jan 11 j 08:54	0°♋	
	694 Feb 07 j 22:46	0°♌		desc. node	695 Jan 14 j 02:41	3°♋24'33	
	694 Feb 26 j 09:06	0°♌			695 Feb 01 j 09:07	0°♌	
morning set	694 Feb 28 j 21:22	4°♌37'22		morning set	695 Feb 11 j 05:59	16°♌♌42'08	
max. Earth dist.	694 Mar 04 j 21:54	12°♌18'21	1.35199 AU	max. Earth dist.	695 Feb 14 j 21:57	23°♌♌20'57	1.37008 AU
					695 Feb 18 j 10:51	0°♌	
superior conj	694 Mar 09 j 20:14	22°♌09'47	-1°09'40				
minimum elong	694 Mar 09 j 23:33	22°♌26'44	1°09'05	superior conj	695 Feb 21 j 07:42	5°♌33'25	-1°33'45
	694 Mar 13 j 15:26	0°♍		minimum elong	695 Feb 21 j 11:42	5°♌53'01	1°33'14
asc. node	694 Mar 17 j 00:50	7°♍02'06		evening rise	695 Mar 01 j 17:04	22°♌19'49	
evening rise	694 Mar 17 j 14:22	8°♍11'48		asc. node	695 Mar 03 j 21:53	26°♌42'13	
	694 Mar 29 j 11:38	0°♌			695 Mar 05 j 14:34	0°♍	
evening max el	694 Apr 05 j 04:40	8°♌18'19	20°33'46	evening max el	695 Mar 18 j 19:07	19°♍59'16	19°27'26
retrograde	694 Apr 16 j 05:39	13°♌38'26		retrograde	695 Mar 28 j 03:19	24°♍29'11	
evening set	694 Apr 18 j 08:40	13°♌27'24		evening set	695 Mar 30 j 06:16	24°♍16'16	
desc. node	694 Apr 25 j 04:51	10°♌49'08		inferior conj	695 Apr 07 j 18:07	20°♍09'58	1°12'37
inferior conj	694 Apr 27 j 13:01	9°♌29'46	-0°40'34	minimum elong	695 Apr 07 j 21:01	20°♍05'16	1°11'39
minimum elong	694 Apr 27 j 11:06	9°♌32'32	0°39'52	min. Earth dist.	695 Apr 10 j 10:09	18°♍26'38	0.56068 AU
min. Earth dist.	694 Apr 28 j 19:41	8°♌45'31	0.55104 AU	desc. node	695 Apr 12 j 01:51	17°♍26'36	
morning rise	694 May 06 j 12:34	5°♌17'36		morning rise	695 Apr 16 j 09:02	15°♍25'54	
direct	694 May 10 j 02:50	4°♌49'42		direct	695 Apr 20 j 22:47	14°♍38'31	
morning max el	694 May 23 j 10:42	11°♌17'40	23°13'48	morning max el	695 May 05 j 01:29	21°♍46'57	24°54'34
	694 Jun 06 j 08:12	0°♎			695 May 12 j 05:52	0°♌	
asc. node	694 Jun 13 j 00:04	12°♎33'17			695 May 29 j 17:14	0°♎	
morning set	694 Jun 15 j 14:31	17°♎55'24		asc. node	695 May 30 j 21:08	2°♎25'27	
	694 Jun 21 j 06:07	0°♏		morning set	695 May 31 j 02:27	2°♎53'30	
superior conj	694 Jun 22 j 16:46	3°♏05'56	1°26'37	superior conj	695 Jun 07 j 02:15	18°♎00'18	1°09'38
minimum elong	694 Jun 22 j 14:22	2°♏53'06	1°26'20	minimum elong	695 Jun 06 j 23:51	17°♎47'12	1°09'15
max. Earth dist.	694 Jun 25 j 05:08	8°♏26'30	1.33743 AU	max. Earth dist.	695 Jun 08 j 11:18	20°♎59'49	1.32871 AU
evening rise	694 Jun 30 j 07:46	18°♏54'51			695 Jun 12 j 16:42	0°♏	
	694 Jul 06 j 03:10	0°♎		evening rise	695 Jun 14 j 07:09	3°♏18'48	
desc. node	694 Jul 22 j 04:10	25°♎47'13			695 Jun 28 j 21:46	0°♎	
	694 Jul 25 j 07:35	0°♏		desc. node	695 Jul 09 j 01:09	14°♎34'51	
evening max el	694 Aug 03 j 11:35	10°♏24'18	27°19'58	evening max el	695 Jul 16 j 20:49	23°♎19'04	27°23'03
retrograde	694 Aug 16 j 23:14	17°♏42'56			695 Jul 26 j 22:06	0°♏	
evening set	694 Aug 24 j 01:28	14°♏59'17		retrograde	695 Jul 30 j 15:10	0°♏37'01	
min. Earth dist.	694 Aug 27 j 18:53	11°♏32'22	0.64412 AU		695 Aug 03 j 04:53	30°♌♌	
inferior conj	694 Aug 30 j 02:55	9°♏02'03	-3°05'16	evening set	695 Aug 06 j 20:13	28°♎05'20	
minimum elong	694 Aug 30 j 07:28	8°♏49'48	3°03'48	min. Earth dist.	695 Aug 10 j 10:07	25°♎08'25	0.62716 AU
morning rise	694 Sep 05 j 14:22	3°♏35'33		inferior conj	695 Aug 13 j 06:51	22°♎23'32	-3°54'34
direct	694 Sep 08 j 05:32	2°♏59'55		minimum elong	695 Aug 13 j 11:49	22°♎11'34	3°53'22
asc. node	694 Sep 08 j 23:17	3°♏02'46		morning rise	695 Aug 20 j 04:45	17°♎15'43	
morning max el	694 Sep 14 j 17:42	6°♏26'59	17°59'30	direct	695 Aug 22 j 16:31	16°♎47'22	
	694 Sep 30 j 09:39	0°♎		asc. node	695 Aug 26 j 20:20	18°♎08'13	
morning set	694 Oct 02 j 03:17	2°♎56'32		morning max el	695 Aug 29 j 09:26	20°♎13'08	17°52'43
					695 Sep 05 j 16:05	0°♏	
superior conj	694 Oct 15 j 10:36	25°♎00'34	0°17'57	morning set	695 Sep 14 j 14:55	15°♏29'29	
minimum elong	694 Oct 15 j 12:40	25°♎08'56	0°17'40		695 Sep 22 j 21:09	0°♎	
desc. node	694 Oct 18 j 03:27	29°♎21'00					

superior conj	695 Sep 26 j 00:19	5° Ω 20'23	0°58'06	minimum elong	696 Sep 06 j 20:54	17° Π 17'17	1°25'21
minimum elong	695 Sep 26 j 05:05	5° Ω 40'28	0°57'30		696 Sep 14 j 05:39	0° Ω	
max. Earth dist.	695 Oct 02 j 21:52	16° Ω 44'27	1.43390 AU	max. Earth dist.	696 Sep 14 j 07:29	0° Ω 07'39	1.41705 AU
desc. node	695 Oct 05 j 00:29	20° Ω 08'09		evening rise	696 Sep 19 j 21:22	9° Ω 16'19	
evening rise	695 Oct 11 j 01:39	29° Ω 40'14		desc. node	696 Sep 20 j 21:30	10° Ω 52'51	
	695 Oct 11 j 06:45	0° Π			696 Oct 03 j 09:47	0° Π	
	695 Oct 31 j 13:28	0° \mathcal{A}		evening max el	696 Oct 23 j 04:34	25° Π 47'10	22°36'13
evening max el	695 Nov 10 j 11:14	12° \mathcal{A} 16'42	21°19'11		696 Oct 28 j 05:17	0° \mathcal{A}	
retrograde	695 Nov 19 j 04:32	17° \mathcal{A} 27'45		retrograde	696 Nov 01 j 23:55	1° \mathcal{A} 36'51	
asc. node	695 Nov 22 j 19:36	16° \mathcal{A} 14'10			696 Nov 06 j 07:11	30° \mathcal{A} Π	
evening set	695 Nov 23 j 07:46	15° \mathcal{A} 51'52		evening set	696 Nov 06 j 15:16	29° Π 43'57	
inferior conj	695 Nov 28 j 16:27	9° \mathcal{A} 37'30	1°54'49	asc. node	696 Nov 08 j 16:38	27° Π 41'15	
minimum elong	695 Nov 28 j 14:09	9° \mathcal{A} 45'27	1°53'59	inferior conj	696 Nov 11 j 23:40	23° Π 23'31	1°06'53
min. Earth dist.	695 Nov 28 j 23:43	9° \mathcal{A} 12'24	0.67525 AU	minimum elong	696 Nov 11 j 22:11	23° Π 28'40	1°06'17
morning rise	695 Dec 03 j 20:22	3° \mathcal{A} 24'21		min. Earth dist.	696 Nov 11 j 20:09	23° Π 35'41	0.67726 AU
direct	695 Dec 09 j 00:02	1° \mathcal{A} 10'43		morning rise	696 Nov 17 j 04:58	17° Π 12'31	
morning max el	695 Dec 19 j 10:54	7° \mathcal{A} 24'09	23°28'36	direct	696 Nov 21 j 17:46	15° Π 21'24	
desc. node	695 Dec 31 j 23:44	22° \mathcal{A} 48'32		morning max el	696 Nov 30 j 23:05	20° Π 47'37	22°01'52
	696 Jan 06 j 01:20	0° \mathcal{B}			696 Dec 08 j 17:50	0° \mathcal{A}	
morning set	696 Jan 23 j 14:33	27° \mathcal{B} 33'47		desc. node	696 Dec 17 j 20:46	12° \mathcal{A} 41'20	
	696 Jan 25 j 00:58	0° \approx			696 Dec 29 j 07:53	0° \mathcal{B}	
max. Earth dist.	696 Jan 27 j 16:53	4° \approx 36'26	1.39093 AU	morning set	697 Jan 02 j 18:09	7° \mathcal{B} 01'20	
				max. Earth dist.	697 Jan 08 j 14:34	16° \mathcal{B} 37'02	1.41201 AU
superior conj	696 Feb 04 j 05:27	18° \approx 13'16	-1°52'35	superior conj	697 Jan 16 j 08:35	29° \mathcal{B} 57'26	-2°02'30
minimum elong	696 Feb 04 j 08:58	18° \approx 29'40	1°52'20	minimum elong	697 Jan 16 j 09:38	0° \approx 02'04	2°02'30
	696 Feb 10 j 09:46	0° \mathcal{H}			697 Jan 16 j 09:10	0° \approx	
evening rise	696 Feb 13 j 11:56	5° \mathcal{H} 59'33		evening rise	697 Jan 26 j 19:39	19° \approx 03'07	
asc. node	696 Feb 18 j 18:55	16° \mathcal{H} 02'19			697 Feb 01 j 19:07	0° \mathcal{H}	
	696 Feb 27 j 16:58	0° \mathcal{Y}		asc. node	697 Feb 04 j 15:58	4° \mathcal{H} 55'43	
evening max el	696 Feb 29 j 19:38	2° \mathcal{Y} 17'14	18°40'57	evening max el	697 Feb 12 j 03:19	15° \mathcal{H} 04'38	18°14'33
retrograde	696 Mar 08 j 18:13	6° \mathcal{Y} 09'19		retrograde	697 Feb 19 j 03:35	18° \mathcal{H} 35'07	
evening set	696 Mar 11 j 02:14	5° \mathcal{Y} 50'29		evening set	697 Feb 21 j 17:06	18° \mathcal{H} 07'54	
inferior conj	696 Mar 18 j 18:53	1° \mathcal{Y} 26'46	2°36'48	inferior conj	697 Feb 28 j 16:40	13° \mathcal{H} 23'22	3°26'14
minimum elong	696 Mar 18 j 23:06	1° \mathcal{Y} 18'47	2°35'44	minimum elong	697 Feb 28 j 19:30	13° \mathcal{H} 17'06	3°25'50
	696 Mar 20 j 16:35	30° \mathcal{A} \mathcal{H}		min. Earth dist.	697 Mar 04 j 01:52	10° \mathcal{H} 26'00	0.59824 AU
min. Earth dist.	696 Mar 22 j 03:34	28° \mathcal{H} 55'28	0.57755 AU	morning rise	697 Mar 07 j 19:41	7° \mathcal{H} 43'06	
morning rise	696 Mar 26 j 16:57	26° \mathcal{H} 10'07		direct	697 Mar 14 j 08:11	5° \mathcal{H} 45'23	
desc. node	696 Mar 28 j 22:55	25° \mathcal{H} 19'32		desc. node	697 Mar 15 j 19:57	5° \mathcal{H} 51'21	
direct	696 Apr 01 j 09:02	24° \mathcal{H} 50'08		morning max el	697 Mar 28 j 15:17	13° \mathcal{H} 32'25	27°22'39
	696 Apr 13 j 01:41	0° \mathcal{Y}			697 Apr 10 j 18:14	0° \mathcal{Y}	
morning max el	696 Apr 15 j 17:43	2° \mathcal{Y} 24'09	26°22'13		697 Apr 27 j 16:15	0° \mathcal{B}	
	696 May 05 j 10:52	0° \mathcal{B}		morning set	697 Apr 28 j 21:54	2° \mathcal{B} 32'48	
morning set	696 May 14 j 13:29	17° \mathcal{B} 47'53		asc. node	697 May 03 j 15:14	12° \mathcal{B} 37'13	
asc. node	696 May 16 j 18:10	22° \mathcal{B} 28'15		max. Earth dist.	697 May 05 j 10:53	16° \mathcal{B} 35'47	1.32282 AU
	696 May 20 j 05:09	0° Π					
superior conj	696 May 21 j 13:42	2° Π 58'44	0°48'59	superior conj	697 May 06 j 01:23	17° \mathcal{B} 55'20	0°25'25
minimum elong	696 May 21 j 11:45	2° Π 48'01	0°48'36	minimum elong	697 May 06 j 00:16	17° \mathcal{B} 49'12	0°25'10
max. Earth dist.	696 May 21 j 22:22	3° Π 46'21	1.32386 AU		697 May 11 j 14:16	0° Π	
evening rise	696 May 28 j 12:51	18° Π 00'20		evening rise	697 May 12 j 22:33	2° Π 51'48	
	696 Jun 03 j 12:57	0° \mathcal{B}			697 May 27 j 13:17	0° \mathcal{B}	
	696 Jun 22 j 20:22	0° \mathcal{Q}		evening max el	697 Jun 09 j 22:51	17° \mathcal{B} 04'43	25°51'55
desc. node	696 Jun 24 j 22:11	2° \mathcal{Q} 22'26		desc. node	697 Jun 11 j 19:13	18° \mathcal{B} 44'57	
evening max el	696 Jun 28 j 01:08	5° \mathcal{Q} 34'36	26°53'23	retrograde	697 Jun 23 j 23:49	24° \mathcal{B} 15'54	
retrograde	696 Jul 12 j 00:01	12° \mathcal{Q} 50'11		evening set	697 Jun 30 j 01:34	22° \mathcal{B} 47'26	
evening set	696 Jul 18 j 21:46	10° \mathcal{Q} 44'36		min. Earth dist.	697 Jul 04 j 11:23	20° \mathcal{B} 08'09	0.58685 AU
min. Earth dist.	696 Jul 22 j 15:07	8° \mathcal{Q} 05'12	0.60746 AU	inferior conj	697 Jul 07 j 18:11	17° \mathcal{B} 43'59	-4°49'48
inferior conj	696 Jul 25 j 21:08	5° \mathcal{Q} 20'40	-4°32'30	minimum elong	697 Jul 07 j 18:41	17° \mathcal{B} 43'03	4°49'48
minimum elong	696 Jul 26 j 00:59	5° \mathcal{Q} 12'31	4°31'58	morning rise	697 Jul 15 j 14:08	13° \mathcal{B} 19'53	
morning rise	696 Aug 02 j 06:01	0° \mathcal{Q} 34'13		direct	697 Jul 18 j 02:19	12° \mathcal{B} 59'16	
direct	696 Aug 04 j 16:52	0° \mathcal{Q} 10'40		morning max el	697 Jul 26 j 05:22	16° \mathcal{B} 51'11	18°37'07
morning max el	696 Aug 11 j 22:23	3° \mathcal{Q} 44'13	18°04'50	asc. node	697 Jul 30 j 14:27	22° \mathcal{B} 00'02	
asc. node	696 Aug 12 j 17:23	4° \mathcal{Q} 32'25			697 Aug 04 j 15:40	0° \mathcal{Q}	
morning set	696 Aug 27 j 19:22	28° \mathcal{Q} 50'40		morning set	697 Aug 11 j 11:51	12° \mathcal{Q} 47'01	
	696 Aug 28 j 10:16	0° Π					
superior conj	696 Sep 06 j 16:43	16° Π 58'41	1°25'46	superior conj	697 Aug 20 j 07:03	29° \mathcal{Q} 42'01	1°41'18
				minimum elong	697 Aug 20 j 09:17	29° \mathcal{Q} 52'32	1°41'10

	697 Aug 20 j 10:53	0°♎		direct	698 Jun 29 j 17:18	25°♊02'06	
max. Earth dist.	697 Aug 27 j 12:25	12°♎48'49	1.39728 AU	morning max el	698 Jul 09 j 03:30	29°♊24'52	19°30'33
evening rise	697 Aug 31 j 16:01	19°♎56'46			698 Jul 09 j 18:07	0°♊	
	697 Sep 06 j 19:26	0°♊		asc. node	698 Jul 17 j 11:31	10°♊17'14	
desc. node	697 Sep 07 j 18:32	1°♊31'27		morning set	698 Jul 26 j 12:43	27°♊09'06	
	697 Sep 27 j 14:50	0°♌			698 Jul 27 j 22:45	0°♌	
evening max el	697 Oct 05 j 18:08	9°♌20'57	23°56'24				
retrograde	697 Oct 16 j 15:55	15°♌45'50		superior conj	698 Aug 03 j 13:43	13°♌15'00	1°46'37
evening set	697 Oct 21 j 21:01	13°♌35'18		minimum elong	698 Aug 03 j 13:58	13°♌16'14	1°46'37
min. Earth dist.	697 Oct 26 j 16:36	8°♌00'01	0.67605 AU	max. Earth dist.	698 Aug 09 j 16:08	24°♌54'28	1.37711 AU
asc. node	697 Oct 26 j 13:41	8°♌09'53			698 Aug 12 j 11:10	0°♎	
inferior conj	697 Oct 27 j 06:33	7°♌12'44	0°14'31	evening rise	698 Aug 13 j 10:55	1°♎46'01	
minimum elong	697 Oct 27 j 06:11	7°♌13'56	0°14'22	desc. node	698 Aug 25 j 15:34	21°♎59'40	
transit middle	697 Oct 27 j 06:11	7°♌13'56	0°14'22		698 Aug 30 j 23:31	0°♏	
transit begin	697 Oct 27 j 04:55	7°♌18'17		evening max el	698 Sep 18 j 06:01	22°♏58'29	25°12'53
transit end	697 Oct 27 j 07:28	7°♌09'36		retrograde	698 Sep 30 j 03:39	29°♏51'05	
morning rise	697 Nov 01 j 15:19	1°♌06'24		evening set	698 Oct 05 j 23:22	27°♏24'05	
	697 Nov 03 j 14:01	30°♋♏		min. Earth dist.	698 Oct 10 j 10:40	22°♏23'43	0.67157 AU
direct	697 Nov 05 j 14:28	29°♏37'16		inferior conj	698 Oct 11 j 11:19	21°♏03'22	-0°40'50
	697 Nov 07 j 17:02	0°♌		minimum elong	698 Oct 11 j 12:21	21°♏00'00	0°40'24
morning max el	697 Nov 13 j 17:48	4°♌20'22	20°43'06	asc. node	698 Oct 13 j 10:44	18°♏33'17	
	697 Dec 02 j 19:21	0°♌		morning rise	698 Oct 17 j 01:29	15°♏04'23	
desc. node	697 Dec 04 j 17:48	2°♌54'24		direct	698 Oct 20 j 12:45	13°♏54'53	
morning set	697 Dec 12 j 20:42	15°♌20'55		morning max el	698 Oct 27 j 20:23	18°♏04'15	19°37'04
max. Earth dist.	697 Dec 21 j 19:54	29°♌34'21	1.43047 AU		698 Nov 06 j 04:30	0°♌	
	697 Dec 22 j 02:14	0°♏		greatest brilliancy	698 Nov 10 j 10:04	6°♌14'27	-0.7m
				morning set	698 Nov 21 j 18:17	23°♌35'45	
superior conj	697 Dec 28 j 11:39	10°♏32'31	-1°58'53	desc. node	698 Nov 21 j 14:50	23°♌22'25	
minimum elong	697 Dec 28 j 08:03	10°♏17'25	1°58'43		698 Nov 25 j 21:18	0°♌	
	698 Jan 08 j 17:48	0°♏		max. Earth dist.	698 Dec 04 j 08:52	13°♌19'18	1.44374 AU
evening rise	698 Jan 09 j 12:09	1°♏21'12					
asc. node	698 Jan 22 j 13:02	23°♏13'06		superior conj	698 Dec 08 j 12:03	19°♌55'05	-1°37'25
evening max el	698 Jan 26 j 14:54	28°♏11'11	18°07'46	minimum elong	698 Dec 08 j 04:02	19°♌22'55	1°36'43
	698 Jan 28 j 17:52	0°♋			698 Dec 14 j 16:58	0°♏	
retrograde	698 Feb 02 j 04:06	1°♋35'29		evening rise	698 Dec 22 j 09:11	12°♏46'56	
evening set	698 Feb 04 j 22:26	0°♋58'38			699 Jan 01 j 17:21	0°♏	
	698 Feb 06 j 16:29	30°♋♏		asc. node	699 Jan 09 j 10:04	10°♏43'59	
inferior conj	698 Feb 11 j 08:30	25°♏52'59	3°46'25	evening max el	699 Jan 10 j 03:25	11°♏29'46	18°19'56
minimum elong	698 Feb 11 j 09:10	25°♏51'17	3°46'23	retrograde	699 Jan 16 j 15:14	15°♏00'56	
min. Earth dist.	698 Feb 14 j 07:34	22°♏54'44	0.61926 AU	evening set	699 Jan 19 j 14:21	14°♏13'40	
morning rise	698 Feb 17 j 18:38	19°♏57'54		inferior conj	699 Jan 25 j 14:26	8°♏48'23	3°44'42
direct	698 Feb 24 j 17:06	17°♏28'39		minimum elong	699 Jan 25 j 13:17	8°♏51'38	3°44'36
desc. node	698 Mar 02 j 17:00	19°♏06'30		min. Earth dist.	699 Jan 27 j 22:48	6°♏09'39	0.63812 AU
morning max el	698 Mar 10 j 18:57	25°♏21'07	27°47'42	morning rise	699 Jan 31 j 11:32	2°♏44'14	
	698 Mar 15 j 01:52	0°♋			699 Feb 06 j 09:10	30°♋♏	
	698 Apr 04 j 04:22	0°♎		direct	699 Feb 07 j 10:01	29°♏56'27	
morning set	698 Apr 13 j 01:41	17°♎00'59			699 Feb 08 j 11:18	0°♏	
max. Earth dist.	698 Apr 18 j 21:00	29°♎14'27	1.32557 AU	desc. node	699 Feb 17 j 14:03	4°♏34'08	
	698 Apr 19 j 05:26	0°♏		morning max el	699 Feb 21 j 03:09	7°♏48'10	27°35'55
					699 Mar 10 j 06:27	0°♋	
superior conj	698 Apr 20 j 11:35	2°♏43'39	-0°00'19		699 Mar 27 j 09:21	0°♎	
minimum elong	698 Apr 20 j 11:36	2°♏43'45	0°00'19	morning set	699 Mar 27 j 22:24	1°♎04'33	
behind sun begin	698 Apr 20 j 06:29	2°♏15'54		max. Earth dist.	699 Apr 02 j 00:46	11°♎29'35	1.33233 AU
behind sun end	698 Apr 20 j 16:43	3°♏11'37					
asc. node	698 Apr 20 j 12:18	2°♏47'37		superior conj	699 Apr 04 j 18:29	17°♎17'48	-0°27'21
evening rise	698 Apr 27 j 10:09	17°♏45'34		minimum elong	699 Apr 04 j 19:49	17°♎24'55	0°27'03
	698 May 03 j 11:18	0°♊		asc. node	699 Apr 07 j 09:21	22°♎55'22	
evening max el	698 May 22 j 14:33	27°♊54'30	24°26'30		699 Apr 10 j 16:31	0°♏	
	698 May 24 j 22:50	0°♏		evening rise	699 Apr 11 j 21:47	2°♏35'07	
desc. node	698 May 29 j 16:15	3°♏09'32			699 Apr 27 j 02:59	0°♊	
retrograde	698 Jun 05 j 12:06	4°♏55'29		evening max el	699 May 04 j 05:10	8°♊26'17	22°50'58
evening set	698 Jun 10 j 06:14	4°♏04'52		desc. node	699 May 16 j 13:17	15°♊00'17	
min. Earth dist.	698 Jun 16 j 01:45	1°♏09'09	0.56812 AU	retrograde	699 May 17 j 12:02	15°♊02'19	
	698 Jun 17 j 21:24	30°♋♊		evening set	699 May 20 j 19:35	14°♊38'13	
inferior conj	698 Jun 18 j 19:17	29°♊24'52	-4°33'45	min. Earth dist.	699 May 28 j 13:53	11°♊12'56	0.55468 AU
minimum elong	698 Jun 18 j 14:51	29°♊31'59	4°33'13	inferior conj	699 May 30 j 01:18	10°♊22'00	-3°32'48
morning rise	698 Jun 27 j 02:12	25°♊20'57		minimum elong	699 May 29 j 17:49	10°♊32'47	3°30'52

morning rise	699 Jun 07 j 18:28	6° Π 29'01		direct	700 May 21 j 00:05	16° \mathcal{B} 29'00	
direct	699 Jun 10 j 13:47	6° Π 10'37		morning max el	700 Jun 02 j 15:18	22° \mathcal{B} 28'52	22°16'13
morning max el	699 Jun 21 j 14:46	11° Π 17'45	20°44'43		700 Jun 09 j 04:19	0° Π	
asc. node	699 Jul 04 j 08:34	29° Π 11'58		asc. node	700 Jun 20 j 05:37	18° Π 35'09	
	699 Jul 04 j 19:01	0° \mathcal{C}		morning set	700 Jun 24 j 05:10	26° Π 40'21	
morning set	699 Jul 10 j 19:11	11° \mathcal{C} 48'47			700 Jun 25 j 19:11	0° \mathcal{C}	
superior conj	699 Jul 18 j 07:58	27° \mathcal{C} 23'28	1°43'45	superior conj	700 Jul 01 j 10:14	11° \mathcal{C} 56'53	1°34'25
minimum elong	699 Jul 18 j 06:42	27° \mathcal{C} 17'03	1°43'42	minimum elong	700 Jul 01 j 08:05	11° \mathcal{C} 45'32	1°34'13
	699 Jul 19 j 14:44	0° \mathcal{Q}		max. Earth dist.	700 Jul 04 j 16:08	18° \mathcal{C} 43'05	1.34409 AU
max. Earth dist.	699 Jul 22 j 23:52	6° \mathcal{Q} 44'08	1.35886 AU	evening rise	700 Jul 09 j 09:20	28° \mathcal{C} 10'02	
evening rise	699 Jul 27 j 02:15	14° \mathcal{Q} 34'25			700 Jul 10 j 08:05	0° \mathcal{Q}	
	699 Aug 04 j 20:00	0° \mathcal{N}			700 Jul 28 j 00:52	0° \mathcal{N}	
desc. node	699 Aug 12 j 12:35	12° \mathcal{N} 11'20		desc. node	700 Jul 29 j 09:36	1° \mathcal{N} 59'07	
	699 Aug 25 j 16:00	0° \mathcal{A}		evening max el	700 Aug 13 j 05:38	20° \mathcal{N} 05'38	27°04'38
evening max el	699 Aug 31 j 17:43	6° \mathcal{A} 35'37	26°18'12	retrograde	700 Aug 26 j 12:13	27° \mathcal{N} 24'13	
retrograde	699 Sep 13 j 10:34	13° \mathcal{A} 46'13		evening set	700 Sep 02 j 09:34	24° \mathcal{N} 39'05	
evening set	699 Sep 19 j 20:19	11° \mathcal{A} 06'30		min. Earth dist.	700 Sep 06 j 06:16	20° \mathcal{N} 51'57	0.65225 AU
min. Earth dist.	699 Sep 23 j 23:57	6° \mathcal{A} 42'43	0.66368 AU	inferior conj	700 Sep 08 j 06:53	18° \mathcal{N} 34'03	-2°34'08
inferior conj	699 Sep 25 j 12:08	4° \mathcal{A} 51'39	-1°37'43	minimum elong	700 Sep 08 j 10:49	18° \mathcal{N} 22'54	2°32'43
minimum elong	699 Sep 25 j 14:39	4° \mathcal{A} 43'53	1°36'42	morning rise	700 Sep 14 j 12:47	12° \mathcal{N} 58'29	
asc. node	699 Sep 30 j 07:46	29° \mathcal{N} 45'56		asc. node	700 Sep 16 j 04:48	12° \mathcal{N} 23'56	
	699 Sep 30 j 00:37	30° \mathcal{R} \mathcal{N}		direct	700 Sep 17 j 06:54	12° \mathcal{N} 17'30	
morning rise	699 Oct 01 j 09:25	29° \mathcal{N} 02'53		morning max el	700 Sep 23 j 19:45	15° \mathcal{N} 49'25	18°11'31
direct	699 Oct 04 j 10:54	28° \mathcal{N} 09'32			700 Oct 04 j 01:14	0° \mathcal{A}	
	699 Oct 09 j 01:40	0° \mathcal{A}		morning set	700 Oct 12 j 07:22	13° \mathcal{A} 32'14	
morning max el	699 Oct 11 j 05:47	1° \mathcal{A} 55'36	18°46'06		700 Oct 22 j 09:47	0° \mathcal{M}	
	699 Oct 30 j 15:14	0° \mathcal{M}		desc. node	700 Oct 25 j 08:53	4° \mathcal{M} 44'11	
morning set	699 Nov 01 j 10:29	2° \mathcal{M} 51'18		superior conj	700 Oct 26 j 19:19	7° \mathcal{M} 01'00	-0°09'31
desc. node	699 Nov 08 j 11:52	14° \mathcal{M} 00'13		minimum elong	700 Oct 26 j 18:06	6° \mathcal{M} 56'10	0°09'20
max. Earth dist.	699 Nov 17 j 02:17	27° \mathcal{M} 31'27	1.45023 AU	behind sun begin	700 Oct 26 j 09:03	6° \mathcal{M} 20'16	
				behind sun end	700 Oct 27 j 03:08	7° \mathcal{M} 32'03	
superior conj	699 Nov 17 j 16:13	28° \mathcal{M} 26'17	-0°58'13	max. Earth dist.	700 Oct 29 j 20:50	11° \mathcal{M} 51'33	1.44935 AU
minimum elong	699 Nov 17 j 09:03	27° \mathcal{M} 58'03	0°57'21		700 Nov 10 j 11:20	0° \mathcal{A}	
	699 Nov 18 j 16:03	0° \mathcal{A}		evening rise	700 Nov 12 j 06:17	2° \mathcal{A} 46'58	
evening rise	699 Dec 03 j 07:10	23° \mathcal{A} 14'25		greatest brilliancy	700 Nov 24 j 16:26	21° \mathcal{A} 55'49	-0.7m
	699 Dec 07 j 12:00	0° \mathcal{Z}			700 Nov 30 j 04:38	0° \mathcal{Z}	
evening max el	699 Dec 24 j 14:21	24° \mathcal{Z} 54'49	18°50'16	evening max el	700 Dec 06 j 21:37	8° \mathcal{Z} 22'53	19°37'17
asc. node	699 Dec 27 j 07:04	27° \mathcal{Z} 15'14		asc. node	700 Dec 13 j 04:05	12° \mathcal{Z} 31'57	
retrograde	699 Dec 31 j 08:52	28° \mathcal{Z} 43'43		retrograde	700 Dec 14 j 05:46	12° \mathcal{Z} 38'21	
evening set	700 Jan 03 j 13:39	27° \mathcal{Z} 45'00		evening set	700 Dec 17 j 17:46	11° \mathcal{Z} 26'39	
inferior conj	700 Jan 09 j 06:41	22° \mathcal{Z} 02'25	3°27'07	inferior conj	700 Dec 23 j 06:05	5° \mathcal{Z} 29'27	2°57'53
minimum elong	700 Jan 09 j 04:24	22° \mathcal{Z} 09'27	3°26'44	minimum elong	700 Dec 23 j 03:22	5° \mathcal{Z} 38'23	2°57'12
min. Earth dist.	700 Jan 10 j 23:42	19° \mathcal{Z} 56'07	0.65347 AU	min. Earth dist.	700 Dec 24 j 08:51	4° \mathcal{Z} 01'43	0.66495 AU
morning rise	700 Jan 14 j 18:47	15° \mathcal{Z} 52'52			700 Dec 27 j 18:42	30° \mathcal{R} \mathcal{A}	
direct	700 Jan 21 j 09:54	13° \mathcal{Z} 01'02		morning rise	700 Dec 28 j 12:44	29° \mathcal{A} 17'01	
morning max el	700 Feb 03 j 13:02	20° \mathcal{Z} 42'33	26°51'38	direct	701 Jan 03 j 15:49	26° \mathcal{A} 33'40	
desc. node	700 Feb 04 j 11:05	21° \mathcal{Z} 38'59			701 Jan 11 j 15:17	0° \mathcal{Z}	
	700 Feb 11 j 14:12	0° \mathcal{A}		morning max el	701 Jan 15 j 22:09	3° \mathcal{Z} 50'53	25°42'47
	700 Mar 02 j 09:04	0° \mathcal{H}		desc. node	701 Jan 21 j 08:06	9° \mathcal{Z} 52'46	
morning set	700 Mar 10 j 08:50	14° \mathcal{H} 33'35			701 Feb 04 j 22:13	0° \mathcal{A}	
max. Earth dist.	700 Mar 14 j 18:20	23° \mathcal{H} 11'12	1.34345 AU	morning set	701 Feb 21 j 04:28	27° \mathcal{A} 13'59	
	700 Mar 18 j 02:25	0° \mathcal{Y}			701 Feb 22 j 16:26	0° \mathcal{H}	
superior conj	700 Mar 18 j 20:03	1° \mathcal{Y} 31'28	-0°54'31	max. Earth dist.	701 Feb 24 j 23:46	4° \mathcal{H} 20'39	1.35918 AU
minimum elong	700 Mar 18 j 22:42	1° \mathcal{Y} 45'18	0°54'01	superior conj	701 Mar 02 j 13:35	15° \mathcal{H} 16'16	-1°20'19
asc. node	700 Mar 24 j 06:24	12° \mathcal{Y} 56'30		minimum elong	701 Mar 02 j 17:18	15° \mathcal{H} 34'52	1°19'46
evening rise	700 Mar 26 j 07:38	17° \mathcal{Y} 14'13			701 Mar 09 j 18:51	0° \mathcal{Y}	
	700 Apr 01 j 17:55	0° \mathcal{B}		evening rise	701 Mar 10 j 13:36	1° \mathcal{Y} 35'35	
evening max el	700 Apr 15 j 02:16	19° \mathcal{B} 12'09	21°20'01	asc. node	701 Mar 11 j 03:25	2° \mathcal{Y} 45'49	
retrograde	700 Apr 27 j 02:47	25° \mathcal{B} 03'27			701 Mar 27 j 21:26	0° \mathcal{B}	
evening set	700 Apr 29 j 10:53	24° \mathcal{B} 50'53		evening max el	701 Mar 28 j 10:17	0° \mathcal{B} 31'47	20°03'15
desc. node	700 May 02 j 10:18	24° \mathcal{B} 01'34		retrograde	701 Apr 07 j 17:41	5° \mathcal{B} 29'16	
inferior conj	700 May 08 j 20:12	20° \mathcal{B} 50'57	-1°49'39	evening set	701 Apr 09 j 19:24	5° \mathcal{B} 18'08	
minimum elong	700 May 08 j 15:06	20° \mathcal{B} 58'07	1°47'54	inferior conj	701 Apr 18 j 17:40	1° \mathcal{B} 18'50	0°09'49
min. Earth dist.	700 May 09 j 02:37	20° \mathcal{B} 41'55	0.54955 AU	minimum elong	701 Apr 18 j 18:06	1° \mathcal{B} 18'10	0°09'39
morning rise	700 May 17 j 19:44	16° \mathcal{B} 51'01					

transit middle	701 Apr 18 j 18:06	1°♄18'10	0°09'39	retrograde	702 Mar 19 j 21:44	16°♄41'27	
transit begin	701 Apr 18 j 14:55	1°♄22'58		evening set	702 Mar 22 j 02:51	16°♄26'17	
transit end	701 Apr 18 j 21:17	1°♄13'23		inferior conj	702 Mar 30 j 06:30	12°♄13'21	1°52'33
desc. node	701 Apr 19 j 07:20	0°♄58'13		minimum elong	702 Mar 30 j 10:25	12°♄06'36	1°51'22
min. Earth dist.	701 Apr 20 j 16:30	0°♄08'29	0.55408 AU	min. Earth dist.	702 Apr 02 j 07:53	10°♄07'37	0.56728 AU
	701 Apr 20 j 22:15	30°♄		desc. node	702 Apr 06 j 04:21	7°♄52'50	
morning rise	701 Apr 27 j 14:46	26°♄53'45		morning rise	702 Apr 07 j 15:00	7°♄15'03	
direct	701 May 01 j 14:11	26°♄19'03		direct	702 Apr 12 j 16:29	6°♄14'59	
	701 May 11 j 14:20	0°♄		morning max el	702 Apr 26 j 22:28	13°♄35'25	25°34'12
morning max el	701 May 15 j 07:56	3°♄06'44	23°57'07		702 May 09 j 19:56	0°♄	
	701 Jun 02 j 22:20	0°♄		morning set	702 May 24 j 04:37	26°♄34'28	
asc. node	701 Jun 07 j 02:40	8°♄18'23		asc. node	702 May 24 j 23:44	28°♄15'42	
morning set	701 Jun 08 j 16:51	11°♄37'19			702 May 25 j 19:16	0°♄	
superior conj	701 Jun 15 j 17:43	26°♄45'35	1°19'55	superior conj	702 May 31 j 04:16	11°♄42'21	1°01'16
minimum elong	701 Jun 15 j 15:16	26°♄32'17	1°19'34	minimum elong	702 May 31 j 02:01	11°♄29'57	1°00'52
	701 Jun 17 j 05:53	0°♄		max. Earth dist.	702 Jun 01 j 02:34	13°♄44'13	1.32629 AU
max. Earth dist.	701 Jun 17 j 17:46	1°♄03'29	1.33326 AU	evening rise	702 Jun 07 j 06:15	26°♄52'16	
evening rise	701 Jun 23 j 03:48	12°♄19'30			702 Jun 08 j 18:58	0°♄	
	701 Jul 02 j 13:21	0°♄			702 Jun 25 j 23:04	0°♄	
desc. node	701 Jul 16 j 06:38	21°♄12'29		desc. node	702 Jul 03 j 03:40	9°♄37'01	
	701 Jul 23 j 11:26	0°♄		evening max el	702 Jul 09 j 00:23	15°♄57'31	27°14'31
evening max el	701 Jul 26 j 16:41	3°♄17'28	27°25'13	retrograde	702 Jul 22 j 20:42	23°♄13'36	
retrograde	701 Aug 09 j 07:55	10°♄36'23		evening set	702 Jul 30 j 00:03	20°♄51'45	
evening set	701 Aug 16 j 12:06	7°♄56'27		min. Earth dist.	702 Aug 02 j 14:27	18°♄03'56	0.61904 AU
min. Earth dist.	701 Aug 20 j 03:34	4°♄43'03	0.63724 AU	inferior conj	702 Aug 05 j 15:38	15°♄17'28	-4°12'34
inferior conj	701 Aug 22 j 17:04	2°♄05'11	-3°27'13	minimum elong	702 Aug 05 j 20:22	15°♄06'39	4°11'36
minimum elong	701 Aug 22 j 21:56	1°♄52'39	3°25'48	morning rise	702 Aug 12 j 18:08	10°♄18'08	
	701 Aug 24 j 19:23	30°♄		direct	702 Aug 15 j 05:18	9°♄51'58	
morning rise	701 Aug 29 j 08:51	26°♄46'01		asc. node	702 Aug 20 j 22:56	12°♄17'33	
direct	701 Aug 31 j 22:11	26°♄13'52		morning max el	702 Aug 22 j 02:27	13°♄19'53	17°55'29
asc. node	701 Sep 03 j 01:51	26°♄37'03			702 Sep 02 j 09:53	0°♄	
morning max el	701 Sep 07 j 11:36	29°♄39'46	17°54'20	morning set	702 Sep 07 j 02:07	8°♄25'11	
	701 Sep 07 j 19:35	0°♄					
morning set	701 Sep 24 j 06:38	25°♄29'45		superior conj	702 Sep 17 j 18:48	27°♄27'54	1°11'25
	701 Sep 26 j 21:16	0°♄		minimum elong	702 Sep 17 j 23:37	27°♄48'37	1°10'52
superior conj	701 Oct 06 j 17:27	16°♄34'14	0°36'24		702 Sep 19 j 06:14	0°♄	
minimum elong	701 Oct 06 j 21:09	16°♄49'29	0°35'53	max. Earth dist.	702 Sep 25 j 03:31	9°♄51'12	1.42724 AU
desc. node	701 Oct 12 j 05:55	25°♄31'10		desc. node	702 Sep 29 j 02:56	16°♄17'36	
max. Earth dist.	701 Oct 12 j 14:05	26°♄03'50	1.44134 AU	evening rise	702 Oct 02 j 01:52	20°♄58'43	
	701 Oct 15 j 01:30	0°♄			702 Oct 07 j 21:53	0°♄	
evening rise	701 Oct 22 j 15:01	11°♄47'56		evening max el	702 Oct 29 j 02:48	0°♄	
	701 Nov 03 j 15:35	0°♄		retrograde	702 Nov 02 j 20:11	5°♄22'01	21°51'17
evening max el	701 Nov 19 j 23:47	21°♄52'23	20°38'43	evening set	702 Nov 12 j 00:05	10°♄49'01	
retrograde	701 Nov 28 j 03:28	26°♄41'22		asc. node	702 Nov 16 j 08:21	9°♄05'52	
asc. node	701 Nov 30 j 01:06	26°♄20'55		inferior conj	702 Nov 16 j 22:10	8°♄36'23	
evening set	701 Dec 02 j 00:36	25°♄14'48		minimum elong	702 Nov 21 j 16:44	2°♄48'37	1°35'06
inferior conj	701 Dec 07 j 10:09	19°♄05'58	2°19'53	min. Earth dist.	702 Nov 21 j 14:44	2°♄55'34	1°34'21
minimum elong	701 Dec 07 j 07:34	19°♄14'49	2°19'03		702 Nov 21 j 19:18	2°♄39'47	0.67652 AU
min. Earth dist.	701 Dec 08 j 00:09	18°♄18'16	0.67254 AU	morning rise	702 Nov 23 j 18:36	30°♄	
morning rise	701 Dec 12 j 14:19	12°♄52'41		direct	702 Nov 26 j 20:59	26°♄36'25	
direct	701 Dec 18 j 02:53	10°♄26'38			702 Dec 01 j 18:19	24°♄32'17	
morning max el	701 Dec 29 j 06:25	17°♄05'33	24°19'20	morning max el	702 Dec 11 j 06:12	0°♄	
desc. node	702 Jan 08 j 05:08	28°♄55'35		desc. node	702 Dec 11 j 16:13	0°♄24'57	22°51'14
	702 Jan 09 j 00:27	0°♄			702 Dec 26 j 02:10	18°♄32'49	
	702 Jan 28 j 22:47	0°♄		morning set	703 Jan 02 j 21:57	0°♄	
morning set	702 Feb 03 j 03:40	8°♄50'11		max. Earth dist.	703 Jan 15 j 00:10	19°♄05'55	
max. Earth dist.	702 Feb 06 j 20:33	15°♄24'02	1.37876 AU		703 Jan 19 j 16:14	26°♄57'34	1.40009 AU
					703 Jan 21 j 10:28	0°♄	
superior conj	702 Feb 13 j 19:50	28°♄23'37	-1°42'33	superior conj	703 Jan 27 j 10:19	10°♄41'22	-1°58'09
minimum elong	702 Feb 13 j 23:49	28°♄42'44	1°42'09	minimum elong	703 Jan 27 j 13:04	10°♄53'56	1°58'01
	702 Feb 14 j 15:50	0°♄		evening rise	703 Feb 06 j 03:54	28°♄58'26	
evening rise	702 Feb 22 j 13:21	15°♄33'00			703 Feb 06 j 16:50	0°♄	
asc. node	702 Feb 26 j 00:28	22°♄18'32		asc. node	703 Feb 12 j 21:30	11°♄28'15	
	702 Mar 02 j 05:01	0°♄		evening max el	703 Feb 22 j 09:22	25°♄01'27	18°27'12
evening max el	702 Mar 11 j 05:27	12°♄30'05	19°05'10	retrograde	703 Mar 01 j 20:57	28°♄42'28	

evening set	703 Mar 04 j 07:26	28° ✕ 20'13		evening set	704 Feb 15 j 04:57	10° ✕ 52'58	
inferior conj	703 Mar 11 j 16:22	23° ✕ 47'23	3°01'48	inferior conj	704 Feb 21 j 22:18	5° ✕ 59'15	3°37'57
minimum elong	703 Mar 11 j 20:12	23° ✕ 39'36	3°01'00	minimum elong	704 Feb 22 j 00:13	5° ✕ 54'44	3°37'45
min. Earth dist.	703 Mar 15 j 02:46	21° ✕ 02'19	0.58614 AU	min. Earth dist.	704 Feb 25 j 04:03	2° ✕ 58'29	0.60724 AU
morning rise	703 Mar 19 j 06:19	18° ✕ 19'38		morning rise	704 Feb 28 j 17:40	0° ✕ 11'25	
desc. node	703 Mar 24 j 01:23	16° ✕ 48'10			704 Feb 29 j 00:53	30° ℞	
direct	703 Mar 25 j 08:06	16° ✕ 43'54		direct	704 Mar 06 j 11:28	27° ≈ 59'08	
morning max el	703 Apr 08 j 16:41	24° ✕ 23'48	26°51'56	desc. node	704 Mar 09 j 22:25	28° ≈ 31'34	
	703 Apr 13 j 19:25	0° Υ			704 Mar 13 j 07:23	0° ✕	
	703 May 02 j 22:03	0° ♄		morning max el	704 Mar 20 j 17:11	5° ✕ 49'51	27°37'59
morning set	703 May 08 j 14:48	11° ♄ 26'13			704 Apr 07 j 19:40	0° Υ	
asc. node	703 May 11 j 20:49	18° ♄ 22'03		morning set	704 Apr 21 j 21:32	26° Υ 05'27	
					704 Apr 23 j 18:29	0° ♄	
superior conj	703 May 15 j 16:03	26° ♄ 41'04	0°39'18	asc. node	704 Apr 27 j 17:51	8° ♄ 32'19	
minimum elong	703 May 15 j 14:25	26° ♄ 32'03	0°38'57	max. Earth dist.	704 Apr 28 j 03:00	9° ♄ 22'15	1.32348 AU
max. Earth dist.	703 May 15 j 14:58	26° ♄ 35'06	1.32302 AU				
	703 May 17 j 04:16	0° ♄		superior conj	704 Apr 29 j 03:19	11° ♄ 35'09	0°14'44
evening rise	703 May 22 j 13:58	11° ♄ 39'28		minimum elong	704 Apr 29 j 02:39	11° ♄ 31'29	0°14'35
	703 May 31 j 23:44	0° ♄		behind sun begin	704 Apr 29 j 00:40	11° ♄ 20'38	
desc. node	703 Jun 20 j 00:41	26° ♄ 52'29		behind sun end	704 Apr 29 j 04:37	11° ♄ 42'19	
evening max el	703 Jun 21 j 02:03	27° ♄ 54'32	26°30'44	evening rise	704 May 06 j 00:41	26° ♄ 32'51	
	703 Jun 23 j 10:27	0° ♄			704 May 07 j 16:14	0° ♄	
retrograde	703 Jul 05 j 01:44	5° ♄ 08'09			704 May 25 j 00:32	0° ♄	
evening set	703 Jul 11 j 16:53	3° ♄ 17'14		evening max el	704 Jun 01 j 20:38	9° ♄ 05'25	25°17'43
min. Earth dist.	703 Jul 15 j 15:14	0° ♄ 40'26	0.59871 AU	desc. node	704 Jun 05 j 21:44	12° ♄ 29'43	
	703 Jul 16 j 12:07	30° ℞		retrograde	704 Jun 15 j 21:14	16° ♄ 14'19	
inferior conj	703 Jul 18 j 23:04	28° ♄ 02'04	-4°43'02	evening set	704 Jun 21 j 10:44	15° ♄ 02'21	
minimum elong	703 Jul 19 j 01:47	27° ♄ 56'38	4°42'48	min. Earth dist.	704 Jun 26 j 08:27	12° ♄ 17'59	0.57845 AU
morning rise	703 Jul 26 j 12:41	23° ♄ 25'16		inferior conj	704 Jun 29 j 11:50	10° ♄ 08'15	-4°47'53
direct	703 Jul 29 j 00:01	23° ♄ 03'02		minimum elong	704 Jun 29 j 10:18	10° ♄ 10'54	4°47'50
morning max el	703 Aug 05 j 13:18	26° ♄ 42'32	18°16'05	morning rise	704 Jul 07 j 12:32	5° ♄ 53'45	
asc. node	703 Aug 07 j 20:00	29° ♄ 11'11		direct	704 Jul 10 j 01:44	5° ♄ 34'08	
	703 Aug 08 j 11:42	0° ♄		morning max el	704 Jul 18 j 16:58	9° ♄ 37'21	18°57'16
morning set	703 Aug 21 j 12:15	22° ♄ 03'24		asc. node	704 Jul 24 j 17:04	17° ♄ 01'46	
	703 Aug 25 j 16:54	0° ♄			704 Aug 01 j 04:08	0° ♄	
superior conj	703 Aug 30 j 21:20	9° ♄ 36'46	1°33'44	morning set	704 Aug 04 j 08:40	6° ♄ 11'48	
minimum elong	703 Aug 31 j 00:46	9° ♄ 52'21	1°33'28	superior conj	704 Aug 12 j 19:18	22° ♄ 43'35	1°44'40
max. Earth dist.	703 Sep 07 j 11:21	22° ♄ 58'47	1.40884 AU	minimum elong	704 Aug 12 j 20:40	22° ♄ 50'06	1°44'37
	703 Sep 11 j 15:56	0° ♄			704 Aug 16 j 16:05	0° ♄	
evening rise	703 Sep 12 j 06:41	1° ♄ 00'29		max. Earth dist.	704 Aug 19 j 14:46	5° ♄ 21'39	1.38857 AU
desc. node	703 Sep 15 j 24:00	7° ♄ 00'32		evening rise	704 Aug 23 j 11:53	12° ♄ 10'49	
	703 Oct 01 j 08:38	0° ♄		desc. node	704 Sep 01 j 21:03	27° ♄ 35'26	
evening max el	703 Oct 16 j 11:35	18° ♄ 53'22	23°10'16		704 Sep 03 j 10:14	0° ♄	
retrograde	703 Oct 26 j 18:10	24° ♄ 58'48			704 Sep 25 j 15:02	0° ♄	
evening set	703 Oct 31 j 15:19	22° ♄ 58'05		evening max el	704 Sep 27 j 23:59	2° ♄ 28'13	24°29'46
asc. node	703 Nov 03 j 19:13	19° ♄ 33'30		retrograde	704 Oct 09 j 08:38	9° ♄ 06'48	
min. Earth dist.	703 Nov 05 j 15:58	17° ♄ 03'49	0.67715 AU	evening set	704 Oct 14 j 19:50	6° ♄ 48'53	
inferior conj	703 Nov 06 j 00:01	16° ♄ 36'09	0°45'08	min. Earth dist.	704 Oct 19 j 11:44	1° ♄ 28'07	0.67452 AU
minimum elong	703 Nov 05 j 22:58	16° ♄ 39'43	0°44'41	inferior conj	704 Oct 20 j 06:13	0° ♄ 26'18	-0°08'41
morning rise	703 Nov 11 j 06:34	10° ♄ 26'59		minimum elong	704 Oct 20 j 06:25	0° ♄ 25'36	0°08'36
direct	703 Nov 15 j 13:18	8° ♄ 45'40		transit middle	704 Oct 20 j 06:25	0° ♄ 25'36	0°08'36
morning max el	703 Nov 24 j 07:01	13° ♄ 52'32	21°27'06	transit begin	704 Oct 20 j 04:06	0° ♄ 33'24	
	703 Dec 07 j 01:07	0° ♄		transit end	704 Oct 20 j 08:45	0° ♄ 17'49	
desc. node	703 Dec 12 j 23:13	8° ♄ 34'56		asc. node	704 Oct 20 j 16:15	29° ♄ 52'45	
morning set	703 Dec 25 j 15:44	27° ♄ 59'51			704 Oct 20 j 14:05	30° ℞	
	703 Dec 26 j 22:01	0° ♄		morning rise	704 Oct 25 j 17:03	24° ♄ 22'42	
max. Earth dist.	704 Jan 01 j 17:06	9° ♄ 22'59	1.42033 AU	direct	704 Oct 29 j 10:48	23° ♄ 02'28	
				morning max el	704 Nov 06 j 05:07	27° ♄ 30'26	20°13'13
superior conj	704 Jan 09 j 03:43	21° ♄ 56'48	-2°02'55		704 Nov 08 j 11:59	0° ♄	
minimum elong	704 Jan 09 j 03:01	21° ♄ 53'44	2°02'54	desc. node	704 Nov 28 j 20:16	28° ♄ 55'02	
	704 Jan 13 j 17:49	0° ♄			704 Nov 29 j 13:16	0° ♄	
evening rise	704 Jan 20 j 05:39	11° ≈ 43'40		morning set	704 Dec 03 j 12:56	6° ♄ 07'58	
asc. node	704 Jan 30 j 18:33	0° ✕ 07'30		max. Earth dist.	704 Dec 14 j 01:22	22° ♄ 40'32	1.43677 AU
	704 Jan 30 j 16:38	0° ✕			704 Dec 18 j 14:00	0° ♄	
evening max el	704 Feb 05 j 18:59	7° ✕ 57'30	18°09'16	superior conj	704 Dec 19 j 19:23	2° ♄ 00'26	-1°52'06
retrograde	704 Feb 12 j 13:28	11° ✕ 24'03					

minimum elong	704 Dec 19 j 13:35	1° Z 36'40	1°51'45		705 Dec 11 j 05:26	0° Z	
evening rise	705 Jan 01 j 14:23	23° Z 40'24		evening rise	705 Dec 14 j 01:49	4° Z 41'01	
	705 Jan 05 j 05:55	0° \approx			705 Dec 30 j 00:48	0° \approx	
asc. node	705 Jan 16 j 15:35	18° \approx 06'51		evening max el	706 Jan 02 j 19:28	4° \approx 32'14	18°30'48
evening max el	705 Jan 19 j 07:17	21° \approx 10'14	18°10'45	asc. node	706 Jan 03 j 12:36	5° \approx 14'06	
retrograde	705 Jan 25 j 18:58	24° \approx 36'07		retrograde	706 Jan 09 j 09:07	8° \approx 09'25	
evening set	705 Jan 28 j 15:12	23° \approx 55'06		evening set	706 Jan 12 j 10:33	7° \approx 17'24	
inferior conj	705 Feb 03 j 20:38	18° \approx 41'10	3°47'58	inferior conj	706 Jan 18 j 07:19	1° \approx 44'43	3°38'51
minimum elong	705 Feb 03 j 20:27	18° \approx 41'39	3°47'57	minimum elong	706 Jan 18 j 05:36	1° \approx 49'46	3°38'39
min. Earth dist.	705 Feb 06 j 13:53	15° \approx 48'45	0.62757 AU		706 Jan 19 j 18:52	30° R Z	
morning rise	705 Feb 10 j 00:41	12° \approx 41'32		min. Earth dist.	706 Jan 20 j 09:11	29° Z 18'33	0.64514 AU
direct	705 Feb 17 j 00:18	10° \approx 02'15		morning rise	706 Jan 24 j 00:09	25° Z 38'09	
desc. node	705 Feb 24 j 19:26	12° \approx 47'31		direct	706 Jan 30 j 20:25	22° Z 46'41	
morning max el	705 Mar 02 j 23:06	17° \approx 56'19	27°47'04	desc. node	706 Feb 11 j 16:28	28° Z 59'58	
	705 Mar 13 j 02:01	0° H			706 Feb 12 j 17:46	0° \approx	
	705 Mar 31 j 14:14	0° Y		morning max el	706 Feb 13 j 08:02	0° \approx 35'13	27°20'38
morning set	705 Apr 05 j 22:40	10° Y 24'51			706 Mar 07 j 02:39	0° H	
max. Earth dist.	705 Apr 11 j 10:44	21° Y 52'01	1.32786 AU	morning set	706 Mar 20 j 15:24	24° H 14'33	
					706 Mar 23 j 12:50	0° Y	
superior conj	705 Apr 13 j 12:21	26° Y 18'47	-0°11'40	max. Earth dist.	706 Mar 25 j 10:16	3° Y 52'05	1.33648 AU
minimum elong	705 Apr 13 j 12:55	26° Y 21'48	0°11'32				
behind sun begin	705 Apr 13 j 09:18	26° Y 02'18		superior conj	706 Mar 28 j 17:14	10° Y 44'53	-0°38'55
behind sun end	705 Apr 13 j 16:31	26° Y 41'18		minimum elong	706 Mar 28 j 19:08	10° Y 54'58	0°38'31
asc. node	705 Apr 14 j 14:54	28° Y 42'31		asc. node	706 Apr 01 j 11:55	18° Y 47'50	
	705 Apr 15 j 05:11	0° B		evening rise	706 Apr 04 j 23:34	26° Y 11'22	
evening rise	705 Apr 20 j 12:30	11° B 25'51			706 Apr 06 j 19:37	0° B	
	705 Apr 30 j 00:52	0° II			706 Apr 25 j 19:56	0° II	
evening max el	705 May 14 j 11:04	19° II 44'34	23°46'15	evening max el	706 Apr 26 j 03:45	0° II 19'08	22°11'06
desc. node	705 May 23 j 18:43	25° II 53'15		retrograde	706 May 08 j 23:22	6° II 37'29	
retrograde	705 May 28 j 04:38	26° II 37'33		desc. node	706 May 10 j 15:42	6° II 31'09	
evening set	705 Jun 01 j 07:15	26° II 00'19		evening set	706 May 11 j 18:58	6° II 19'56	
min. Earth dist.	705 Jun 07 j 21:51	22° II 53'13	0.56158 AU	min. Earth dist.	706 May 20 j 10:03	2° II 38'21	0.55140 AU
inferior conj	705 Jun 10 j 04:25	21° II 30'26	-4°13'47	inferior conj	706 May 21 j 04:16	2° II 12'44	-2°53'12
minimum elong	705 Jun 09 j 22:10	21° II 39'58	4°12'39	minimum elong	706 May 20 j 21:06	2° II 22'50	2°51'02
morning rise	705 Jun 18 j 15:51	17° II 32'31			706 May 25 j 07:52	30° R B	
direct	705 Jun 21 j 08:15	17° II 14'13		morning rise	706 May 30 j 00:51	28° B 19'00	
morning max el	705 Jul 01 j 10:41	21° II 54'51	19°59'33	direct	706 Jun 01 j 23:18	27° B 59'37	
	705 Jul 08 j 02:29	0° E			706 Jun 09 j 01:32	0° II	
asc. node	705 Jul 11 j 14:07	5° E 36'21		morning max el	706 Jun 13 j 17:03	3° II 28'57	21°21'46
morning set	705 Jul 19 j 12:11	20° E 41'58		asc. node	706 Jun 28 j 11:10	24° II 44'21	
	705 Jul 24 j 01:37	0° Ω			706 Jul 01 j 04:03	0° E	
				morning set	706 Jul 03 j 20:24	5° E 27'36	
superior conj	705 Jul 27 j 07:23	6° Ω 33'02	1°46'17				
minimum elong	705 Jul 27 j 06:55	6° Ω 30'44	1°46'16	superior conj	706 Jul 11 j 05:25	20° E 53'13	1°40'30
max. Earth dist.	705 Aug 01 j 19:07	17° Ω 15'44	1.36905 AU	minimum elong	706 Jul 11 j 03:42	20° E 44'21	1°40'23
evening rise	705 Aug 05 j 16:05	24° Ω 27'02		max. Earth dist.	706 Jul 15 j 06:25	29° E 08'14	1.35219 AU
	705 Aug 08 j 18:54	0° H			706 Jul 15 j 16:47	0° Ω	
desc. node	705 Aug 19 j 18:05	17° H 57'17		evening rise	706 Jul 19 j 14:44	7° Ω 37'28	
	705 Aug 28 j 01:08	0° Ω			706 Aug 01 j 10:11	0° H	
evening max el	705 Sep 10 j 11:41	16° Ω 06'20	25°42'33	desc. node	706 Aug 06 j 15:04	7° H 59'59	
retrograde	705 Sep 22 j 18:26	23° Ω 08'07		evening max el	706 Aug 23 j 23:49	29° H 42'53	26°40'45
evening set	705 Sep 28 j 20:07	20° Ω 35'20			706 Aug 24 j 06:58	0° Ω	
min. Earth dist.	705 Oct 03 j 04:11	15° Ω 50'04	0.66862 AU	retrograde	706 Sep 05 j 23:03	6° Ω 57'08	
inferior conj	705 Oct 04 j 09:32	14° Ω 16'28	-1°04'55	evening set	706 Sep 12 j 14:07	4° Ω 14'22	
minimum elong	705 Oct 04 j 11:12	14° Ω 11'10	1°04'13	min. Earth dist.	706 Sep 16 j 14:50	0° Ω 06'08	0.65929 AU
asc. node	705 Oct 07 j 13:18	10° Ω 30'57			706 Sep 16 j 16:55	30° R H	
morning rise	705 Oct 10 j 02:30	8° Ω 21'10		inferior conj	706 Sep 18 j 08:05	28° H 03'23	-2°01'51
direct	705 Oct 13 j 09:18	7° Ω 18'58		minimum elong	706 Sep 18 j 11:14	27° H 54'00	2°00'37
morning max el	705 Oct 20 j 10:42	11° Ω 17'29	19°13'19	morning rise	706 Sep 24 j 08:50	22° H 19'40	
	705 Nov 03 j 04:14	0° M		asc. node	706 Sep 24 j 10:20	22° H 17'39	
morning set	705 Nov 12 j 16:00	14° M 41'47		direct	706 Sep 27 j 06:59	21° H 31'51	
desc. node	705 Nov 15 j 17:19	19° M 27'37		morning max el	706 Oct 03 j 22:19	25° H 10'38	18°29'17
	705 Nov 22 j 11:02	0° X			706 Oct 07 j 23:31	0° Ω	
max. Earth dist.	705 Nov 26 j 16:12	6° X 37'52	1.44737 AU	morning set	706 Oct 23 j 20:17	24° Ω 34'19	
					706 Oct 27 j 05:26	0° M	
superior conj	705 Nov 29 j 09:36	10° X 56'32	-1°22'40	desc. node	706 Nov 02 j 14:21	10° M 08'47	
minimum elong	705 Nov 29 j 01:05	10° X 22'46	1°21'47				

superior conj	706 Nov 08 j 10:32	19°♄21'39	-0°37'59	behind sun end	707 Oct 19 j 05:02	28°♂52'56	
minimum elong	706 Nov 08 j 05:35	19°♄02'12	0°37'19		707 Oct 19 j 21:47	0°♄	
max. Earth dist.	706 Nov 09 j 11:01	20°♄57'53	1.45082 AU	desc. node	707 Oct 20 j 11:23	0°♄54'22	
	706 Nov 15 j 05:06	0°♂		max. Earth dist.	707 Oct 23 j 05:51	5°♄18'31	1.44681 AU
evening rise	706 Nov 24 j 13:44	14°♂44'24		evening rise	707 Nov 04 j 05:10	23°♄59'35	
greatest brilliancy	706 Dec 04 j 03:21	29°♂49'27	-0.8m		707 Nov 08 j 02:51	0°♂	
	706 Dec 04 j 06:03	0°♂		greatest brilliancy	707 Nov 18 j 04:07	15°♂13'07	-0.6m
evening max el	706 Dec 17 j 05:09	17°♂59'18	19°08'19		707 Nov 29 j 01:57	0°♂	
asc. node	706 Dec 21 j 09:36	21°♂15'45		evening max el	707 Nov 30 j 10:20	1°♂27'40	20°01'46
retrograde	706 Dec 24 j 04:27	21°♂58'07		retrograde	707 Dec 08 j 02:05	5°♂56'49	
evening set	706 Dec 27 j 12:12	20°♂53'53		asc. node	707 Dec 08 j 06:39	5°♂56'37	
inferior conj	707 Jan 02 j 02:57	15°♂04'39	3°15'54	evening set	707 Dec 11 j 17:46	4°♂38'52	
minimum elong	707 Jan 02 j 00:25	15°♂12'44	3°15'23		707 Dec 16 j 03:19	30°♂♂	
min. Earth dist.	707 Jan 03 j 13:40	13°♂14'38	0.65891 AU	inferior conj	707 Dec 17 j 04:40	28°♂36'03	2°42'42
morning rise	707 Jan 07 j 12:22	8°♂53'51		minimum elong	707 Dec 17 j 01:56	28°♂45'10	2°41'55
direct	707 Jan 13 j 22:51	6°♂04'31		min. Earth dist.	707 Dec 18 j 01:42	27°♂25'40	0.66864 AU
morning max el	707 Jan 26 j 17:42	13°♂36'31	26°24'46	morning rise	707 Dec 22 j 09:55	22°♂22'59	
desc. node	707 Jan 29 j 13:32	16°♂36'57		direct	707 Dec 28 j 06:52	19°♂46'31	
	707 Feb 09 j 01:21	0°♂		morning max el	708 Jan 09 j 02:35	26°♂48'56	25°08'30
	707 Feb 27 j 19:22	0°♂			708 Jan 12 j 01:56	0°♂	
morning set	707 Mar 03 j 20:05	7°♂23'51		desc. node	708 Jan 16 j 10:35	5°♂13'35	
max. Earth dist.	707 Mar 07 j 22:49	15°♂18'51	1.34967 AU		708 Feb 02 j 16:23	0°♂	
				morning set	708 Feb 14 j 07:50	19°♂39'11	
superior conj	707 Mar 12 j 15:43	24°♂46'47	-1°05'44	max. Earth dist.	708 Feb 18 j 00:16	26°♂23'16	1.36713 AU
minimum elong	707 Mar 12 j 18:52	25°♂03'00	1°05'12		708 Feb 19 j 22:21	0°♂	
	707 Mar 15 j 04:19	0°♂		superior conj	708 Feb 24 j 04:56	8°♂16'47	-1°30'21
asc. node	707 Mar 19 j 08:57	8°♂44'11		minimum elong	708 Feb 24 j 08:53	8°♂36'18	1°29'50
evening rise	707 Mar 20 j 08:01	10°♂43'28		evening rise	708 Mar 03 j 11:42	24°♂55'52	
	707 Mar 30 j 13:30	0°♂		asc. node	708 Mar 05 j 05:59	28°♂27'15	
evening max el	707 Apr 08 j 05:06	11°♂16'50	20°45'10		708 Mar 06 j 00:46	0°♂	
retrograde	707 Apr 19 j 12:22	16°♂45'16		evening max el	708 Mar 20 j 17:59	22°♂52'56	19°36'06
evening set	707 Apr 21 j 16:13	16°♂34'03		retrograde	708 Mar 30 j 08:08	27°♂29'48	
desc. node	707 Apr 27 j 12:43	14°♂28'12		evening set	708 Apr 01 j 10:27	27°♂17'32	
inferior conj	707 Apr 30 j 22:15	12°♂36'16	-0°58'48	inferior conj	708 Apr 10 j 01:09	23°♂13'22	0°56'55
minimum elong	707 Apr 30 j 19:28	12°♂40'15	0°57'47	minimum elong	708 Apr 10 j 03:31	23°♂09'37	0°56'07
min. Earth dist.	707 May 01 j 22:46	12°♂01'13	0.55031 AU	min. Earth dist.	708 Apr 12 j 13:14	21°♂38'16	0.55869 AU
morning rise	707 May 09 j 22:08	8°♂27'59		desc. node	708 Apr 13 j 09:46	21°♂07'04	
direct	707 May 13 j 09:29	8°♂02'00		morning rise	708 Apr 18 j 17:58	18°♂34'14	
morning max el	707 May 26 j 13:30	14°♂22'50	22°58'49	direct	708 Apr 23 j 03:45	17°♂50'36	
	707 Jun 07 j 13:46	0°♂		morning max el	708 May 07 j 04:43	24°♂54'20	24°40'00
asc. node	707 Jun 15 j 08:13	14°♂16'48			708 May 11 j 21:48	0°♂	
morning set	707 Jun 18 j 07:20	20°♂22'14			708 May 30 j 05:24	0°♂	
	707 Jun 22 j 19:50	0°♂		asc. node	708 Jun 01 j 05:17	4°♂06'59	
superior conj	707 Jun 25 j 10:11	5°♂33'54	1°28'50	morning set	708 Jun 01 j 19:18	5°♂20'32	
minimum elong	707 Jun 25 j 07:50	5°♂21'23	1°28'34	superior conj	708 Jun 08 j 19:16	20°♂27'24	1°12'28
max. Earth dist.	707 Jun 28 j 03:04	11°♂16'56	1.33898 AU	minimum elong	708 Jun 08 j 16:50	20°♂14'10	1°12'06
evening rise	707 Jul 03 j 03:05	21°♂28'34		max. Earth dist.	708 Jun 10 j 08:05	23°♂46'51	1.32974 AU
	707 Jul 07 j 13:44	0°♂			708 Jun 13 j 06:00	0°♂	
desc. node	707 Jul 24 j 12:05	27°♂34'42		evening rise	708 Jun 16 j 01:21	5°♂49'19	
	707 Jul 26 j 06:19	0°♂			708 Jun 29 j 03:55	0°♂	
evening max el	707 Aug 06 j 11:35	13°♂06'46	27°16'53	desc. node	708 Jul 10 j 09:06	16°♂29'41	
retrograde	707 Aug 19 j 21:59	20°♂25'35		evening max el	708 Jul 18 j 21:19	26°♂06'07	27°24'37
evening set	707 Aug 26 j 23:13	17°♂41'04			708 Jul 23 j 13:56	0°♂	
min. Earth dist.	707 Aug 30 j 17:23	14°♂09'10	0.64635 AU	retrograde	708 Aug 01 j 15:02	3°♂24'41	
inferior conj	707 Sep 01 j 23:32	11°♂41'46	-2°57'16	evening set	708 Aug 08 j 20:08	0°♂50'21	
minimum elong	707 Sep 02 j 03:57	11°♂29'43	2°55'47		708 Aug 09 j 22:52	30°♂♂	
morning rise	707 Sep 08 j 09:31	6°♂12'54		min. Earth dist.	708 Aug 12 j 10:13	27°♂49'31	0.62987 AU
direct	707 Sep 11 j 01:23	5°♂36'01		inferior conj	708 Aug 15 j 05:11	25°♂05'54	-3°47'44
asc. node	707 Sep 11 j 07:24	5°♂36'21		minimum elong	708 Aug 15 j 10:10	24°♂53'40	3°46'27
morning max el	707 Sep 17 j 13:29	9°♂03'58	18°02'04	morning rise	708 Aug 22 j 01:30	19°♂55'08	
	707 Oct 01 j 17:53	0°♂		direct	708 Aug 24 j 13:33	19°♂25'56	
morning set	707 Oct 05 j 05:04	5°♂50'02		asc. node	708 Aug 28 j 04:29	20°♂28'24	
				morning max el	708 Aug 31 j 05:22	22°♂51'32	17°52'31
superior conj	707 Oct 18 j 19:47	28°♂15'52	0°10'59		708 Sep 05 j 19:30	0°♂	
minimum elong	707 Oct 18 j 21:06	28°♂21'07	0°10'47	morning set	708 Sep 16 j 13:40	18°♂14'11	
behind sun begin	707 Oct 18 j 13:10	27°♂49'16					

	708 Sep 23 j 06:59	0°♄		superior conj	709 Sep 09 j 18:03	19°♄50'37	1°22'22
				minimum elong	709 Sep 09 j 22:27	20°♄10'02	1°21'56
superior conj	708 Sep 28 j 05:22	8°♄23'18	0°52'47		709 Sep 15 j 15:15	0°♄	
minimum elong	708 Sep 28 j 09:59	8°♄42'36	0°52'12	max. Earth dist.	709 Sep 17 j 08:02	2°♄50'54	1.41980 AU
max. Earth dist.	708 Oct 04 j 21:25	19°♄20'54	1.43601 AU	evening rise	709 Sep 23 j 05:35	12°♄27'31	
desc. node	708 Oct 06 j 08:25	21°♄41'30		desc. node	709 Sep 23 j 05:28	12°♄27'01	
	708 Oct 11 j 14:35	0°♄			709 Oct 04 j 15:21	0°♄	
evening rise	708 Oct 13 j 12:31	2°♄58'37		evening max el	709 Oct 26 j 04:04	28°♄27'09	22°24'27
	708 Oct 31 j 15:34	0°♄			709 Oct 27 j 18:37	0°♄	
evening max el	708 Nov 12 j 09:55	14°♄56'32	21°08'26	retrograde	709 Nov 04 j 19:22	4°♄10'55	
retrograde	708 Nov 20 j 23:39	20°♄01'57		evening set	709 Nov 09 j 08:49	2°♄20'38	
asc. node	708 Nov 24 j 03:43	19°♄05'33		asc. node	709 Nov 11 j 00:46	0°♄44'49	
evening set	708 Nov 25 j 01:13	18°♄28'36			709 Nov 11 j 16:31	30°♄	
inferior conj	708 Nov 30 j 10:04	12°♄15'33	2°01'38	inferior conj	709 Nov 14 j 17:11	26°♄00'59	1°14'30
minimum elong	708 Nov 30 j 07:41	12°♄23'47	2°00'47	minimum elong	709 Nov 14 j 15:33	26°♄06'39	1°13'50
min. Earth dist.	708 Nov 30 j 19:04	11°♄44'34	0.67463 AU	min. Earth dist.	709 Nov 14 j 15:15	26°♄07'41	0.67719 AU
morning rise	708 Dec 05 j 13:58	6°♄02'13		morning rise	709 Nov 19 j 22:08	19°♄49'34	
direct	708 Dec 10 j 19:56	3°♄45'13		direct	709 Nov 24 j 13:10	17°♄54'58	
morning max el	708 Dec 21 j 11:13	10°♄05'42	23°41'46	morning max el	709 Dec 03 j 22:37	23°♄27'52	22°14'25
desc. node	709 Jan 02 j 07:38	24°♄32'22			709 Dec 09 j 15:43	0°♄	
	709 Jan 06 j 05:18	0°♄		desc. node	709 Dec 20 j 04:40	14°♄21'25	
	709 Jan 25 j 10:17	0°♄			709 Dec 30 j 15:10	0°♄	
morning set	709 Jan 25 j 20:24	0°♄42'58		morning set	710 Jan 06 j 04:21	10°♄22'33	
max. Earth dist.	709 Jan 29 j 19:16	7°♄33'53	1.38771 AU	max. Earth dist.	710 Jan 11 j 16:10	19°♄26'32	1.40901 AU
					710 Jan 17 j 19:16	0°♄	
superior conj	709 Feb 06 j 05:03	21°♄04'13	-1°50'13				
minimum elong	709 Feb 06 j 08:44	21°♄21'35	1°49'55	superior conj	710 Jan 19 j 11:17	2°♄57'25	-2°01'47
	709 Feb 10 j 21:07	0°♄		minimum elong	710 Jan 19 j 12:51	3°♄04'26	2°01'44
evening rise	709 Feb 15 j 07:58	8°♄40'28		evening rise	710 Jan 29 j 17:33	21°♄49'40	
asc. node	709 Feb 20 j 03:02	17°♄50'56			710 Feb 03 j 03:19	0°♄	
	709 Feb 27 j 10:26	0°♄		asc. node	710 Feb 07 j 00:05	6°♄48'42	
evening max el	709 Mar 03 j 17:15	5°♄06'20	18°46'37	evening max el	710 Feb 15 j 00:05	17°♄49'43	18°17'12
retrograde	709 Mar 11 j 20:04	9°♄02'50		retrograde	710 Feb 22 j 02:49	21°♄22'15	
evening set	709 Mar 14 j 03:18	8°♄45'03		evening set	710 Feb 24 j 15:37	20°♄56'20	
inferior conj	709 Mar 21 j 22:46	4°♄24'23	2°26'16	inferior conj	710 Mar 03 j 17:30	16°♄14'50	3°20'48
minimum elong	709 Mar 22 j 03:00	4°♄16'33	2°25'07	minimum elong	710 Mar 03 j 20:38	16°♄08'04	3°20'16
min. Earth dist.	709 Mar 25 j 06:11	1°♄59'00	0.57474 AU	min. Earth dist.	710 Mar 07 j 03:24	13°♄19'55	0.59510 AU
	709 Mar 28 j 09:14	30°♄		morning rise	710 Mar 10 j 23:19	10°♄37'37	
morning rise	709 Mar 29 j 23:39	29°♄12'12		direct	710 Mar 17 j 09:27	8°♄45'30	
desc. node	709 Mar 31 j 06:49	28°♄41'32		desc. node	710 Mar 18 j 03:51	8°♄47'04	
direct	709 Apr 04 j 12:09	27°♄57'33		morning max el	710 Mar 31 j 16:54	16°♄30'40	27°15'46
	709 Apr 11 j 17:11	0°♄			710 Apr 11 j 18:49	0°♄	
morning max el	709 Apr 18 j 20:22	5°♄28'38	26°10'29		710 Apr 29 j 04:27	0°♄	
	709 May 06 j 18:27	0°♄		morning set	710 May 01 j 15:28	5°♄02'15	
morning set	709 May 17 j 06:34	20°♄15'45		asc. node	710 May 05 j 23:23	14°♄16'28	
asc. node	709 May 19 j 02:20	24°♄08'24					
	709 May 21 j 19:10	0°♄		superior conj	710 May 08 j 18:18	20°♄22'41	0°29'09
				minimum elong	710 May 08 j 17:02	20°♄15'44	0°28'53
superior conj	709 May 24 j 06:34	5°♄25'40	0°52'19	max. Earth dist.	710 May 08 j 07:14	19°♄21'53	1.32278 AU
minimum elong	709 May 24 j 04:31	5°♄14'26	0°51'56		710 May 13 j 03:50	0°♄	
max. Earth dist.	709 May 24 j 18:38	6°♄31'55	1.32438 AU	evening rise	710 May 15 j 15:33	5°♄19'17	
evening rise	709 May 31 j 06:20	20°♄28'55			710 May 28 j 17:31	0°♄	
	709 Jun 04 j 23:48	0°♄		evening max el	710 Jun 13 j 01:27	20°♄05'26	26°02'49
	709 Jun 23 j 13:20	0°♄		desc. node	710 Jun 14 j 03:09	21°♄04'52	
desc. node	709 Jun 27 j 06:08	4°♄27'36		retrograde	710 Jun 27 j 02:06	27°♄17'03	
evening max el	709 Jul 01 j 02:39	8°♄28'24	26°59'54	evening set	710 Jul 03 j 07:47	25°♄42'42	
retrograde	709 Jul 15 j 01:03	15°♄44'09		min. Earth dist.	710 Jul 07 j 14:09	23°♄04'37	0.58989 AU
evening set	709 Jul 22 j 00:33	13°♄34'02		inferior conj	710 Jul 10 j 21:33	20°♄36'15	-4°49'04
min. Earth dist.	709 Jul 25 j 16:49	10°♄52'51	0.61049 AU	minimum elong	710 Jul 10 j 22:43	20°♄34'05	4°49'02
inferior conj	709 Jul 28 j 21:44	8°♄07'18	-4°27'53	morning rise	710 Jul 18 j 15:52	16°♄08'48	
minimum elong	709 Jul 29 j 01:53	7°♄58'18	4°27'15	direct	710 Jul 21 j 03:50	15°♄47'47	
morning rise	709 Aug 05 j 04:58	3°♄17'20		morning max el	710 Jul 29 j 02:56	19°♄36'05	18°31'01
direct	709 Aug 07 j 15:45	2°♄53'12		asc. node	710 Aug 01 j 22:36	24°♄00'30	
morning max el	709 Aug 14 j 18:55	6°♄25'10	18°01'47		710 Aug 05 j 21:50	0°♄	
asc. node	709 Aug 15 j 01:33	6°♄41'33		morning set	710 Aug 14 j 06:58	15°♄21'18	
	709 Aug 29 j 20:41	0°♄			710 Aug 21 j 22:24	0°♄	
morning set	709 Aug 30 j 16:01	1°♄29'22					

superior conj	710 Aug 23 j 05:28	2° \mathbb{M} 25'16	1°39'39	morning set	711 Jul 29 j 06:45	29° \mathbb{G} 40'16	
minimum elong	710 Aug 23 j 08:02	2° \mathbb{M} 37'10	1°39'29		711 Jul 29 j 10:43	0° \mathbb{Q}	
max. Earth dist.	710 Aug 30 j 13:46	15° \mathbb{M} 39'15	1.40030 AU				
evening rise	710 Sep 03 j 20:32	22° \mathbb{M} 57'32		superior conj	711 Aug 06 j 10:03	15° \mathbb{Q} 52'09	1°46'23
	710 Sep 08 j 03:36	0° \mathbb{L}		minimum elong	711 Aug 06 j 10:34	15° \mathbb{Q} 54'44	1°46'22
desc. node	710 Sep 10 j 02:29	3° \mathbb{L} 06'51		max. Earth dist.	711 Aug 12 j 17:20	27° \mathbb{Q} 49'17	1.38003 AU
	710 Sep 28 j 14:01	0° \mathbb{M}			711 Aug 13 j 21:59	0° \mathbb{M}	
evening max el	710 Oct 08 j 18:04	12° \mathbb{M} 00'23	23°44'31	evening rise	711 Aug 16 j 11:59	4° \mathbb{M} 36'56	
retrograde	710 Oct 19 j 11:52	18° \mathbb{M} 20'13		desc. node	711 Aug 27 j 23:31	23° \mathbb{M} 37'00	
evening set	710 Oct 24 j 14:55	16° \mathbb{M} 12'11			711 Sep 01 j 04:26	0° \mathbb{L}	
asc. node	710 Oct 28 j 21:49	11° \mathbb{M} 19'15		evening max el	711 Sep 21 j 05:59	25° \mathbb{L} 37'03	25°01'57
min. Earth dist.	710 Oct 29 j 11:47	10° \mathbb{M} 32'01	0.67646 AU		711 Sep 26 j 10:44	0° \mathbb{M}	
inferior conj	710 Oct 30 j 00:11	9° \mathbb{M} 49'45	0°22'42	retrograde	711 Oct 03 j 00:19	2° \mathbb{M} 26'19	
minimum elong	710 Oct 29 j 23:39	9° \mathbb{M} 51'36	0°22'28	evening set	711 Oct 08 j 17:52	0° \mathbb{M} 01'27	
morning rise	710 Nov 04 j 08:20	3° \mathbb{M} 42'41			711 Oct 08 j 18:32	30° \mathbb{R} \mathbb{L}	
direct	710 Nov 08 j 09:26	2° \mathbb{M} 10'25		min. Earth dist.	711 Oct 13 j 06:18	24° \mathbb{L} 55'51	0.67247 AU
morning max el	710 Nov 16 j 16:13	6° \mathbb{M} 59'11	20°54'09	inferior conj	711 Oct 14 j 05:22	23° \mathbb{L} 40'06	-0°32'19
	710 Dec 04 j 00:42	0° \mathbb{J}		minimum elong	711 Oct 14 j 06:11	23° \mathbb{L} 37'26	0°31'58
desc. node	710 Dec 07 j 01:42	4° \mathbb{J} 31'53		asc. node	711 Oct 15 j 18:50	21° \mathbb{L} 39'26	
morning set	710 Dec 16 j 09:44	18° \mathbb{J} 49'19		morning rise	711 Oct 19 j 18:38	17° \mathbb{L} 39'56	
	710 Dec 23 j 10:49	0° \mathbb{Z}		direct	711 Oct 23 j 07:29	16° \mathbb{L} 27'49	
max. Earth dist.	710 Dec 24 j 20:30	2° \mathbb{Z} 16'27	1.42803 AU	morning max el	711 Oct 30 j 17:41	20° \mathbb{L} 41'36	19°45'57
					711 Nov 07 j 06:18	0° \mathbb{M}	
superior conj	710 Dec 31 j 18:10	13° \mathbb{Z} 43'08	-2°00'30	desc. node	711 Nov 23 j 22:45	24° \mathbb{M} 57'54	
minimum elong	710 Dec 31 j 15:22	13° \mathbb{Z} 31'16	2°00'24	morning set	711 Nov 25 j 06:20	26° \mathbb{M} 59'50	
	711 Jan 10 j 03:16	0° \mathbb{W}			711 Nov 27 j 04:52	0° \mathbb{J}	
evening rise	711 Jan 12 j 12:32	4° \mathbb{W} 14'56		max. Earth dist.	711 Dec 07 j 08:22	15° \mathbb{J} 54'57	1.44215 AU
asc. node	711 Jan 24 j 21:07	25° \mathbb{W} 11'58					
	711 Jan 28 j 14:41	0° \mathbb{H}		superior conj	711 Dec 11 j 22:22	23° \mathbb{J} 15'36	-1°41'54
evening max el	711 Jan 29 j 11:11	0° \mathbb{H} 53'30	18°07'31	minimum elong	711 Dec 11 j 14:48	22° \mathbb{J} 45'02	1°41'17
retrograde	711 Feb 05 j 01:26	4° \mathbb{H} 17'59			711 Dec 16 j 01:42	0° \mathbb{Z}	
evening set	711 Feb 07 j 19:03	3° \mathbb{H} 42'38		evening rise	711 Dec 25 j 12:43	15° \mathbb{Z} 48'47	
	711 Feb 12 j 21:54	30° \mathbb{R} \mathbb{W}			712 Jan 02 j 22:35	0° \mathbb{W}	
inferior conj	711 Feb 14 j 06:52	28° \mathbb{W} 39'53	3°44'54	asc. node	712 Jan 11 j 18:08	12° \mathbb{W} 50'34	
minimum elong	711 Feb 14 j 07:51	28° \mathbb{W} 37'26	3°44'51	evening max el	712 Jan 12 j 23:41	14° \mathbb{W} 10'25	18°16'57
min. Earth dist.	711 Feb 17 j 07:48	25° \mathbb{W} 40'22	0.61620 AU	retrograde	712 Jan 19 j 11:15	17° \mathbb{W} 39'59	
morning rise	711 Feb 20 j 19:16	22° \mathbb{W} 46'30		evening set	712 Jan 22 j 09:34	16° \mathbb{W} 54'24	
direct	711 Feb 27 j 16:50	20° \mathbb{W} 21'23		inferior conj	712 Jan 28 j 10:55	11° \mathbb{W} 31'57	3°46'03
desc. node	711 Mar 05 j 00:52	21° \mathbb{W} 38'50		minimum elong	712 Jan 28 j 10:00	11° \mathbb{W} 34'31	3°46'00
morning max el	711 Mar 13 j 19:47	28° \mathbb{W} 13'23	27°46'26	min. Earth dist.	712 Jan 30 j 21:38	8° \mathbb{W} 49'09	0.63547 AU
	711 Mar 15 j 13:14	0° \mathbb{H}		morning rise	712 Feb 03 j 09:42	5° \mathbb{W} 28'42	
	711 Apr 05 j 12:54	0° \mathbb{Y}		direct	712 Feb 10 j 08:39	2° \mathbb{W} 42'42	
morning set	711 Apr 15 j 20:06	19° \mathbb{Y} 33'40		desc. node	712 Feb 19 j 21:54	6° \mathbb{W} 48'37	
	711 Apr 20 j 19:09	0° \mathbb{Z}		morning max el	712 Feb 24 j 03:34	10° \mathbb{W} 35'35	27°39'57
max. Earth dist.	711 Apr 21 j 18:04	2° \mathbb{Z} 03'48	1.32489 AU		712 Mar 10 j 10:16	0° \mathbb{H}	
asc. node	711 Apr 22 j 20:26	4° \mathbb{Z} 27'00			712 Mar 27 j 21:02	0° \mathbb{Y}	
				morning set	712 Mar 29 j 18:03	3° \mathbb{Y} 41'32	
superior conj	711 Apr 23 j 04:49	5° \mathbb{Z} 12'44	0°03'43	max. Earth dist.	712 Apr 03 j 22:59	14° \mathbb{Y} 23'01	1.33099 AU
minimum elong	711 Apr 23 j 04:39	5° \mathbb{Z} 11'47	0°03'41				
behind sun begin	711 Apr 22 j 23:40	4° \mathbb{Z} 44'36		superior conj	712 Apr 06 j 12:19	19° \mathbb{Y} 49'18	-0°23'11
behind sun end	711 Apr 23 j 09:38	5° \mathbb{Z} 38'59		minimum elong	712 Apr 06 j 13:26	19° \mathbb{Y} 55'21	0°22'57
evening rise	711 Apr 30 j 02:58	20° \mathbb{Z} 13'20		asc. node	712 Apr 08 j 17:27	24° \mathbb{Y} 35'20	
	711 May 04 j 21:36	0° \mathbb{I}			712 Apr 11 j 05:41	0° \mathbb{Z}	
	711 May 24 j 17:22	0° \mathbb{G}		evening rise	712 Apr 13 j 14:42	5° \mathbb{Z} 03'45	
evening max el	711 May 25 j 17:46	1° \mathbb{G} 00'23	24°40'14		712 Apr 27 j 02:00	0° \mathbb{I}	
desc. node	711 Jun 01 j 00:09	5° \mathbb{G} 50'05		evening max el	712 May 06 j 08:02	11° \mathbb{I} 32'46	23°05'18
retrograde	711 Jun 08 j 16:18	8° \mathbb{G} 03'50		desc. node	712 May 17 j 21:09	18° \mathbb{I} 06'08	
evening set	711 Jun 13 j 15:47	7° \mathbb{G} 07'51		retrograde	712 May 19 j 18:19	18° \mathbb{I} 14'11	
min. Earth dist.	711 Jun 19 j 05:02	4° \mathbb{G} 15'37	0.57067 AU	evening set	712 May 23 j 06:30	17° \mathbb{I} 47'10	
inferior conj	711 Jun 22 j 01:45	2° \mathbb{G} 24'11	-4°38'57	min. Earth dist.	712 May 30 j 17:24	14° \mathbb{I} 27'00	0.55621 AU
minimum elong	711 Jun 21 j 22:03	2° \mathbb{G} 30'13	4°38'34	inferior conj	712 Jun 01 j 10:20	13° \mathbb{I} 27'26	-3°45'07
	711 Jun 26 j 00:34	30° \mathbb{R} \mathbb{I}		minimum elong	712 Jun 01 j 03:00	13° \mathbb{I} 38'09	3°43'23
morning rise	711 Jun 30 j 07:05	28° \mathbb{I} 17'51		morning rise	712 Jun 10 j 02:06	9° \mathbb{I} 33'45	
direct	711 Jul 02 j 21:43	27° \mathbb{I} 58'48		direct	712 Jun 12 j 20:26	9° \mathbb{I} 15'31	
	711 Jul 09 j 05:46	0° \mathbb{G}		morning max el	712 Jun 23 j 15:37	14° \mathbb{I} 15'25	20°32'23
morning max el	711 Jul 12 j 02:36	2° \mathbb{G} 15'52	19°21'14		712 Jul 05 j 03:03	0° \mathbb{G}	
asc. node	711 Jul 19 j 19:39	12° \mathbb{G} 11'14		asc. node	712 Jul 05 j 16:41	1° \mathbb{G} 00'53	

morning set	712 Jul 12 j 12:31	14°☿17'34			713 Jun 27 j 08:13	0°☿	
superior conj	712 Jul 20 j 02:49	29°☿56'05	1°44'39	superior conj	713 Jul 04 j 04:05	14°☿25'59	1°36'11
minimum elong	712 Jul 20 j 01:46	29°☿50'40	1°44'36	minimum elong	713 Jul 04 j 02:02	14°☿15'12	1°36'01
	712 Jul 20 j 03:36	0°♌		max. Earth dist.	713 Jul 07 j 14:43	21°☿34'31	1.34608 AU
max. Earth dist.	712 Jul 24 j 23:55	9°♌38'45	1.36141 AU		713 Jul 11 j 20:02	0°♌	
evening rise	712 Jul 29 j 00:35	17°♌17'21		evening rise	713 Jul 12 j 05:38	0°♌46'31	
	712 Aug 05 j 04:49	0°♍			713 Jul 29 j 05:18	0°♍	
desc. node	712 Aug 13 j 20:32	13°♍51'21		desc. node	713 Jul 31 j 17:32	3°♍42'55	
	712 Aug 25 j 12:01	0°♎		evening max el	713 Aug 16 j 05:36	22°♍46'05	26°59'15
evening max el	712 Sep 02 j 17:34	9°♎14'13	26°09'27		713 Aug 28 j 08:13	0°♎	
retrograde	712 Sep 15 j 08:04	16°♎23'08		retrograde	713 Aug 29 j 10:33	0°♎03'52	
evening set	712 Sep 21 j 15:46	13°♎44'58			713 Aug 30 j 12:24	30°♎♍	
min. Earth dist.	712 Sep 25 j 20:30	9°♎15'33	0.66507 AU	evening set	713 Sep 05 j 06:20	27°♎19'09	
inferior conj	712 Sep 27 j 06:54	7°♎28'49	-1°29'06	min. Earth dist.	713 Sep 09 j 04:04	23°♎26'29	0.65417 AU
minimum elong	712 Sep 27 j 09:12	7°♎21'40	1°28'09	inferior conj	713 Sep 11 j 02:43	21°♎12'23	-2°25'45
asc. node	712 Oct 01 j 15:52	2°♎41'26		minimum elong	713 Sep 11 j 06:28	21°♎01'37	2°24'22
morning rise	712 Oct 03 j 03:01	1°♎38'17		morning rise	713 Sep 17 j 07:15	15°♎34'29	
direct	712 Oct 06 j 05:45	0°♎42'49		asc. node	713 Sep 18 j 12:57	15°♎05'10	
morning max el	712 Oct 13 j 02:10	4°♎31'56	18°52'38	direct	713 Sep 20 j 02:19	14°♎51'52	
	712 Oct 30 j 22:28	0°♏		morning max el	713 Sep 26 j 15:37	18°♎25'24	18°15'33
morning set	712 Nov 03 j 18:42	6°♏03'21			713 Oct 05 j 06:28	0°♏	
desc. node	712 Nov 09 j 19:49	15°♏34'31		morning set	713 Oct 15 j 11:19	16°♏31'38	
max. Earth dist.	712 Nov 19 j 01:01	0°♐03'09	1.44968 AU		713 Oct 23 j 18:23	0°♏	
	712 Nov 19 j 00:13	0°♐		desc. node	713 Oct 27 j 16:51	6°♏17'35	
superior conj	712 Nov 20 j 04:41	1°♐51'58	-1°05'04	superior conj	713 Oct 30 j 06:28	10°♏21'55	-0°16'58
minimum elong	712 Nov 19 j 20:56	1°♐21'29	1°04'09	minimum elong	713 Oct 30 j 04:16	10°♏13'12	0°16'40
evening rise	712 Dec 05 j 14:16	26°♐25'04		max. Earth dist.	713 Nov 01 j 19:38	14°♏23'09	1.44994 AU
	712 Dec 07 j 19:23	0°♑			713 Nov 11 j 19:00	0°♑	
evening max el	712 Dec 26 j 11:02	27°♑35'06	18°44'41	evening rise	713 Nov 15 j 16:29	6°♑04'40	
asc. node	712 Dec 28 j 15:09	29°♑31'59		greatest brilliancy	713 Nov 27 j 10:40	24°♑18'00	-0.7m
	712 Dec 29 j 06:52	0°♒			713 Dec 01 j 06:11	0°♑	
retrograde	713 Jan 02 j 04:07	1°♒20'43		evening max el	713 Dec 09 j 19:02	11°♑02'59	19°29'20
evening set	713 Jan 05 j 07:57	0°♒23'51		asc. node	713 Dec 15 j 12:12	15°♑00'57	
	713 Jan 05 j 22:40	30°♒♑		retrograde	713 Dec 17 j 00:39	15°♑13'46	
inferior conj	713 Jan 11 j 01:52	24°♑43'50	3°30'35	evening set	713 Dec 20 j 11:31	14°♑04'04	
minimum elong	713 Jan 10 j 23:43	24°♑50'23	3°30'15	inferior conj	713 Dec 26 j 00:24	8°♑08'59	3°02'56
min. Earth dist.	713 Jan 12 j 21:12	22°♑31'59	0.65142 AU	minimum elong	713 Dec 25 j 21:43	8°♑17'45	3°02'17
morning rise	713 Jan 16 j 15:04	18°♑34'54		min. Earth dist.	713 Dec 27 j 05:13	6°♑35'19	0.66350 AU
direct	713 Jan 23 j 07:43	15°♑42'36		morning rise	713 Dec 31 j 07:40	1°♑56'57	
morning max el	713 Feb 05 j 13:17	23°♑26'37	27°00'00		714 Jan 03 j 02:59	30°♒♐	
desc. node	713 Feb 05 j 18:57	23°♑40'54		direct	714 Jan 06 j 12:49	29°♐11'39	
	713 Feb 11 j 10:03	0°♓			714 Jan 10 j 05:06	0°♑	
	713 Mar 03 j 17:46	0°♈		morning max el	714 Jan 18 j 22:31	6°♑33'03	25°54'13
morning set	713 Mar 13 j 06:14	17°♈16'25		desc. node	714 Jan 23 j 16:01	11°♑45'36	
max. Earth dist.	713 Mar 17 j 18:06	26°♈09'04	1.34150 AU		714 Feb 06 j 03:19	0°♓	
	713 Mar 19 j 15:20	0°♉		morning set	714 Feb 24 j 04:25	0°♈04'43	
					714 Feb 24 j 03:23	0°♈	
superior conj	713 Mar 21 j 14:49	4°♉06'26	-0°50'26	max. Earth dist.	714 Feb 28 j 01:19	7°♈22'10	1.35660 AU
minimum elong	713 Mar 21 j 17:17	4°♉19'20	0°49'58				
asc. node	713 Mar 26 j 14:29	14°♉37'36		superior conj	714 Mar 05 j 09:47	17°♈56'00	-1°16'35
evening rise	713 Mar 29 j 00:55	19°♉44'37		minimum elong	714 Mar 05 j 13:22	18°♈14'06	1°16'01
	713 Apr 03 j 03:05	0°♊			714 Mar 11 j 07:08	0°♉	
evening max el	713 Apr 18 j 03:47	22°♊14'40	21°32'51	evening rise	714 Mar 13 j 07:37	4°♉08'53	
retrograde	713 Apr 30 j 09:46	28°♊13'22		asc. node	714 Mar 13 j 11:31	4°♉28'47	
evening set	713 May 02 j 20:13	27°♊59'55			714 Mar 28 j 06:27	0°♊	
desc. node	713 May 04 j 18:09	27°♊31'40		evening max el	714 Mar 31 j 10:07	3°♊28'22	20°13'30
inferior conj	713 May 12 j 06:03	23°♊58'40	-2°07'11	retrograde	714 Apr 10 j 23:36	8°♊33'30	
minimum elong	713 May 12 j 00:16	24°♊06'47	2°05'14	evening set	714 Apr 13 j 01:33	8°♊22'31	
min. Earth dist.	713 May 12 j 06:06	23°♊58'37	0.54973 AU	desc. node	714 Apr 21 j 15:11	4°♊40'24	
morning rise	713 May 21 j 05:02	20°♊00'50		inferior conj	714 Apr 22 j 02:09	4°♊24'11	-0°07'54
direct	713 May 24 j 07:33	19°♊39'43		minimum elong	714 Apr 22 j 01:47	4°♊24'44	0°07'45
morning max el	713 Jun 05 j 17:34	25°♊31'55	22°01'41	transit middle	714 Apr 22 j 01:47	4°♊24'44	0°07'45
	713 Jun 09 j 21:26	0°♋		transit begin	714 Apr 21 j 22:16	4°♊29'56	
asc. node	713 Jun 22 j 13:46	20°♋19'59		transit end	714 Apr 22 j 05:17	4°♊19'31	
morning set	713 Jun 26 j 22:07	29°♋07'18		min. Earth dist.	714 Apr 23 j 19:38	3°♋22'51	0.55284 AU

morning rise	714 May 01 j 00:19	0°♄03'53		desc. node	715 Apr 08 j 12:14	11°♄26'07	
	714 May 01 j 06:10	30°♄0'		morning rise	715 Apr 10 j 23:04	10°♄20'04	
direct	714 May 04 j 20:28	29°♄31'45		direct	715 Apr 15 j 20:28	9°♄24'43	
	714 May 08 j 09:30	0°♄		morning max el	715 Apr 30 j 01:27	16°♄41'02	25°20'44
morning max el	714 May 18 j 10:58	6°♄12'49	23°42'02		715 May 10 j 21:33	0°♄	
	714 Jun 04 j 07:45	0°♄		morning set	715 May 26 j 21:33	29°♄01'21	
asc. node	714 Jun 09 j 10:50	10°♄00'29		asc. node	715 May 27 j 07:52	29°♄55'51	
morning set	714 Jun 11 j 09:41	14°♄03'50			715 May 27 j 08:39	0°♄	
superior conj	714 Jun 18 j 10:59	29°♄12'46	1°22'24	superior conj	715 Jun 02 j 21:12	14°♄08'40	1°04'20
minimum elong	714 Jun 18 j 08:32	28°♄59'35	1°22'05	minimum elong	715 Jun 02 j 18:52	13°♄55'58	1°03'56
	714 Jun 18 j 19:45	0°♄		max. Earth dist.	715 Jun 03 j 23:14	16°♄30'40	1.32705 AU
max. Earth dist.	714 Jun 20 j 15:13	3°♄52'18	1.33461 AU	evening rise	715 Jun 10 j 00:07	29°♄21'24	
evening rise	714 Jun 25 j 22:40	14°♄51'41			715 Jun 10 j 07:37	0°♄	
	714 Jul 03 j 22:33	0°♄			715 Jun 27 j 01:46	0°♄	
desc. node	714 Jul 18 j 14:32	23°♄02'16		desc. node	715 Jul 05 j 11:34	11°♄35'18	
	714 Jul 24 j 01:52	0°♄		evening max el	715 Jul 12 j 01:22	18°♄47'22	27°18'13
evening max el	714 Jul 29 j 17:03	6°♄02'03	27°24'04	retrograde	715 Jul 25 j 20:56	26°♄04'00	
retrograde	714 Aug 12 j 07:06	13°♄20'46		evening set	715 Aug 02 j 01:10	23°♄38'24	
evening set	714 Aug 19 j 10:44	10°♄39'21		min. Earth dist.	715 Aug 05 j 15:14	20°♄47'46	0.62194 AU
min. Earth dist.	714 Aug 23 j 02:51	7°♄21'18	0.63971 AU	inferior conj	715 Aug 08 j 14:57	18°♄01'32	-4°06'27
inferior conj	714 Aug 25 j 14:26	4°♄45'58	-3°19'33	minimum elong	715 Aug 08 j 19:48	17°♄50'14	4°05'25
minimum elong	714 Aug 25 j 19:12	4°♄33'28	3°18'06	morning rise	715 Aug 15 j 15:50	12°♄59'12	
	714 Aug 31 j 00:36	30°♄0'		direct	715 Aug 18 j 03:12	12°♄32'18	
morning rise	714 Sep 01 j 04:40	29°♄24'04		asc. node	715 Aug 23 j 07:07	14°♄32'42	
direct	714 Sep 03 j 18:36	28°♄50'45		morning max el	715 Aug 24 j 22:38	15°♄59'10	17°54'07
asc. node	714 Sep 05 j 10:02	29°♄04'28			715 Sep 03 j 17:51	0°♄	
	714 Sep 07 j 11:52	0°♄		morning set	715 Sep 09 j 23:57	11°♄07'08	
morning max el	714 Sep 10 j 07:25	2°♄16'53	17°55'44	superior conj	715 Sep 20 j 22:16	0°♄25'56	1°06'55
morning set	714 Sep 27 j 07:06	28°♄19'15		minimum elong	715 Sep 21 j 03:07	0°♄46'40	1°06'21
	714 Sep 28 j 06:34	0°♄			715 Sep 20 j 16:13	0°♄	
superior conj	714 Oct 10 j 00:56	19°♄44'04	0°30'02	max. Earth dist.	715 Sep 28 j 03:49	12°♄31'16	1.42970 AU
minimum elong	714 Oct 10 j 04:09	19°♄57'11	0°29'35	desc. node	715 Oct 01 j 10:54	17°♄50'47	
desc. node	714 Oct 14 j 13:53	27°♄04'11		evening rise	715 Oct 05 j 11:56	24°♄14'33	
max. Earth dist.	714 Oct 15 j 13:37	28°♄38'58	1.44300 AU		715 Oct 09 j 05:07	0°♄	
	714 Oct 16 j 10:00	0°♄			715 Oct 30 j 00:07	0°♄	
evening rise	714 Oct 26 j 02:31	15°♄08'13		evening max el	715 Nov 05 j 19:14	8°♄01'14	21°39'52
	714 Nov 04 j 21:04	0°♄		retrograde	715 Nov 14 j 19:19	13°♄22'38	
evening max el	714 Nov 22 j 22:03	24°♄32'09	20°28'45	evening set	715 Nov 19 j 01:49	11°♄41'59	
retrograde	714 Nov 30 j 22:24	29°♄15'38		asc. node	715 Nov 19 j 06:20	11°♄32'49	
asc. node	714 Dec 02 j 09:16	29°♄03'42		inferior conj	715 Nov 24 j 10:17	5°♄25'38	1°42'17
evening set	714 Dec 04 j 18:07	27°♄51'17		minimum elong	715 Nov 24 j 08:10	5°♄32'57	1°41'29
inferior conj	714 Dec 10 j 03:57	21°♄43'54	2°26'09	min. Earth dist.	715 Nov 24 j 14:27	5°♄11'13	0.67617 AU
minimum elong	714 Dec 10 j 01:19	21°♄52'53	2°25'17		715 Nov 28 j 18:19	30°♄0'	
min. Earth dist.	714 Dec 10 j 19:43	20°♄50'27	0.67168 AU	morning rise	715 Nov 29 j 14:22	29°♄13'04	
morning rise	714 Dec 15 j 08:20	15°♄30'44		direct	715 Dec 04 j 13:53	27°♄05'40	
direct	714 Dec 20 j 23:08	13°♄01'51			715 Dec 11 j 06:08	0°♄	
morning max el	715 Jan 01 j 06:53	19°♄46'53	24°32'16	morning max el	715 Dec 14 j 16:19	3°♄05'33	23°04'14
	715 Jan 10 j 00:17	0°♄		desc. node	715 Dec 28 j 10:08	20°♄14'17	
desc. node	715 Jan 10 j 13:05	0°♄41'45			716 Jan 04 j 03:52	0°♄	
	715 Jan 30 j 07:18	0°♄		morning set	716 Jan 18 j 07:53	22°♄19'35	
morning set	715 Feb 06 j 07:03	11°♄51'06			716 Jan 22 j 20:27	0°♄	
max. Earth dist.	715 Feb 09 j 23:08	18°♄24'34	1.37569 AU	max. Earth dist.	716 Jan 22 j 18:30	29°♄51'33	1.39686 AU
	715 Feb 16 j 03:36	0°♄		superior conj	716 Jan 30 j 11:05	13°♄34'58	-1°56'23
superior conj	715 Feb 16 j 17:57	1°♄09'14	-1°39'33	minimum elong	716 Jan 30 j 14:09	13°♄49'07	1°56'13
minimum elong	715 Feb 16 j 21:58	1°♄28'41	1°39'06		716 Feb 08 j 03:35	0°♄	
evening rise	715 Feb 25 j 08:29	18°♄10'11		evening rise	716 Feb 09 j 00:38	1°♄40'57	
asc. node	715 Feb 28 j 08:34	24°♄04'11		asc. node	716 Feb 15 j 05:37	13°♄17'56	
	715 Mar 03 j 12:12	0°♄		evening max el	716 Feb 25 j 06:30	27°♄47'47	18°31'38
evening max el	715 Mar 14 j 03:42	15°♄20'45	19°12'32		716 Feb 28 j 00:21	0°♄	
retrograde	715 Mar 23 j 01:18	19°♄38'17		retrograde	716 Mar 03 j 21:45	1°♄32'30	
evening set	715 Mar 25 j 05:37	19°♄23'57		evening set	716 Mar 06 j 07:21	1°♄11'30	
inferior conj	715 Apr 02 j 12:10	15°♄13'22	1°39'00		716 Mar 09 j 02:01	30°♄0'	
minimum elong	715 Apr 02 j 15:48	15°♄07'15	1°37'51	inferior conj	716 Mar 13 j 18:54	26°♄41'51	2°53'34
min. Earth dist.	715 Apr 05 j 10:36	13°♄15'16	0.56484 AU	minimum elong	716 Mar 13 j 22:55	26°♄33'54	2°52'38

min. Earth dist.	716 Mar 17 j 04:59	24° H 01'08	0.58304 AU	min. Earth dist.	717 Feb 27 j 05:10	5° H 47'50	0.60405 AU
morning rise	716 Mar 21 j 11:43	21° H 17'43		morning rise	717 Mar 02 j 19:59	3° H 02'36	
desc. node	716 Mar 25 j 09:17	19° H 58'20		direct	717 Mar 09 j 12:08	0° H 55'11	
direct	716 Mar 27 j 10:11	19° H 47'39		desc. node	717 Mar 12 j 06:19	1° H 15'48	
morning max el	716 Apr 10 j 19:01	27° H 25'44	26°42'10	morning max el	717 Mar 23 j 18:28	8° H 45'03	27°33'25
	716 Apr 13 j 06:40	0° Y			717 Apr 09 j 00:49	0° Y	
	716 May 03 j 08:09	0° B		morning set	717 Apr 24 j 15:25	28° Y 35'36	
morning set	716 May 10 j 08:05	13° B 54'27			717 Apr 25 j 07:39	0° B	
asc. node	716 May 13 j 04:54	20° B 01'06		asc. node	717 Apr 30 j 01:55	10° B 10'48	
				max. Earth dist.	717 Apr 30 j 23:28	12° B 08'26	1.32315 AU
superior conj	716 May 17 j 08:54	29° B 07'39	0°42'50	superior conj	717 May 01 j 20:19	14° B 02'32	0°18'37
minimum elong	716 May 17 j 07:09	28° B 57'59	0°42'29	minimum elong	717 May 01 j 19:29	13° B 57'57	0°18'25
max. Earth dist.	716 May 17 j 11:16	29° B 20'40	1.32325 AU	evening rise	717 May 08 j 17:32	28° B 59'31	
	716 May 17 j 18:26	0° II			717 May 09 j 05:00	0° II	
evening rise	716 May 24 j 07:11	14° II 06'56			717 May 25 j 22:31	0° B	
	716 Jun 01 j 08:39	0° B		evening max el	717 Jun 04 j 23:30	12° B 07'49	25°30'06
desc. node	716 Jun 21 j 08:34	29° B 02'36		desc. node	717 Jun 08 j 05:34	14° B 56'34	
	716 Jun 22 j 07:07	0° B		retrograde	717 Jun 19 j 00:26	19° B 17'46	
evening max el	716 Jun 23 j 03:55	0° B 50'37	26°39'14	evening set	717 Jun 24 j 18:26	18° B 00'01	
retrograde	716 Jul 07 j 03:21	8° B 05'00		min. Earth dist.	717 Jun 29 j 11:37	15° B 17'42	0.58135 AU
evening set	716 Jul 13 j 21:07	6° B 08'39		inferior conj	717 Jul 02 j 16:28	13° B 02'31	-4°49'27
min. Earth dist.	716 Jul 17 j 17:22	3° B 31'21	0.60180 AU	minimum elong	717 Jul 02 j 15:42	13° B 03'53	4°49'25
inferior conj	716 Jul 21 j 00:48	0° B 50'22	-4°39'51	morning rise	717 Jul 10 j 15:32	8° B 44'41	
minimum elong	716 Jul 21 j 03:58	0° B 43'53	4°39'30	direct	717 Jul 13 j 04:17	8° B 24'48	
	716 Jul 22 j 01:46	30° R B		morning max el	717 Jul 21 j 15:08	12° B 23'51	18°49'46
morning rise	716 Jul 28 j 12:47	26° B 10'14		asc. node	717 Jul 27 j 01:10	18° B 58'21	
direct	716 Jul 30 j 23:54	25° B 47'36			717 Aug 02 j 14:06	0° B	
morning max el	716 Aug 07 j 10:16	29° B 24'45	18°11'44	morning set	717 Aug 07 j 03:14	8° B 43'25	
	716 Aug 08 j 00:26	0° B		superior conj	717 Aug 15 j 16:43	25° B 22'59	1°43'40
asc. node	716 Aug 09 j 04:09	1° B 15'53		minimum elong	717 Aug 15 j 18:23	25° B 30'55	1°43'35
morning set	716 Aug 23 j 08:10	24° B 39'18			717 Aug 18 j 03:38	0° B	
	716 Aug 26 j 04:14	0° B		max. Earth dist.	717 Aug 22 j 15:52	8° B 12'18	1.39160 AU
superior conj	716 Sep 01 j 21:21	12° B 24'15	1°31'07	evening rise	717 Aug 26 j 14:51	15° B 06'23	
minimum elong	716 Sep 02 j 01:04	12° B 41'00	1°30'48	desc. node	717 Sep 04 j 04:56	29° B 10'22	
max. Earth dist.	716 Sep 09 j 12:12	25° B 44'01	1.41177 AU		717 Sep 04 j 17:36	0° B	
	716 Sep 12 j 01:17	0° B			717 Sep 26 j 07:13	0° B	
evening rise	716 Sep 14 j 13:21	4° B 06'33		evening max el	717 Sep 30 j 23:57	5° B 06'27	24°18'14
desc. node	716 Sep 17 j 07:55	8° B 34'09		retrograde	717 Oct 12 j 04:55	11° B 40'33	
	716 Oct 01 j 12:34	0° B		evening set	717 Oct 17 j 13:57	9° B 25'16	
evening max el	716 Oct 18 j 11:12	21° B 31'51	22°58'17	inferior conj	717 Oct 22 j 24:00	3° B 02'36	-0°00'20
retrograde	716 Oct 28 j 13:55	27° B 32'01		minimum elong	717 Oct 23 j 00:00	3° B 02'34	0°00'20
evening set	716 Nov 02 j 08:58	25° B 34'01		transit middle	717 Oct 23 j 00:00	3° B 02'34	0°00'20
asc. node	716 Nov 05 j 03:23	22° B 39'34		transit begin	717 Oct 22 j 21:16	3° B 11'46	
inferior conj	716 Nov 07 j 17:33	19° B 12'25	0°52'59	transit end	717 Oct 23 j 02:44	2° B 53'22	
minimum elong	716 Nov 07 j 16:20	19° B 16'35	0°52'29	min. Earth dist.	717 Oct 22 j 07:08	3° B 59'19	0.67511 AU
min. Earth dist.	716 Nov 07 j 11:03	19° B 34'48	0.67726 AU	asc. node	717 Oct 23 j 00:23	3° B 01'16	
morning rise	716 Nov 12 j 23:36	13° B 02'34			717 Oct 25 j 08:22	30° R B	
direct	716 Nov 17 j 08:25	11° B 17'52		morning rise	717 Oct 28 j 10:04	26° B 57'53	
morning max el	716 Nov 26 j 06:08	16° B 31'30	21°39'01	direct	717 Nov 01 j 05:40	25° B 34'35	
	716 Dec 07 j 03:44	0° B			717 Nov 08 j 23:57	0° B	
desc. node	716 Dec 14 j 07:10	10° B 12'59		morning max el	717 Nov 09 j 03:01	0° B 07'42	20°23'23
	716 Dec 27 j 06:11	0° B			717 Nov 30 j 20:05	0° B	
morning set	716 Dec 28 j 03:28	1° B 24'20		desc. node	717 Dec 01 j 04:13	0° B 30'52	
max. Earth dist.	717 Jan 03 j 18:04	12° B 07'30	1.41747 AU	morning set	717 Dec 07 j 02:03	9° B 35'09	
superior conj	717 Jan 11 j 07:56	25° B 00'08	-2°03'06	max. Earth dist.	717 Dec 17 j 01:12	25° B 17'54	1.43471 AU
minimum elong	717 Jan 11 j 07:54	24° B 59'58	2°03'06		717 Dec 19 j 22:55	0° B	
	717 Jan 14 j 04:05	0° B		superior conj	717 Dec 23 j 03:39	5° B 15'00	-1°54'55
evening rise	717 Jan 22 j 04:31	14° B 32'16		minimum elong	717 Dec 22 j 22:37	4° B 54'10	1°54'39
	717 Jan 30 j 20:38	0° H		evening rise	718 Jan 04 j 16:03	26° B 36'35	
asc. node	717 Feb 01 j 02:39	2° H 02'08			718 Jan 06 j 14:35	0° B	
evening max el	717 Feb 07 j 15:27	10° H 40'25	18°10'44	asc. node	718 Jan 18 j 23:41	20° B 08'05	
retrograde	717 Feb 14 j 11:47	14° H 08'06		evening max el	718 Jan 22 j 03:33	23° B 51'01	18°09'18
evening set	717 Feb 17 j 02:33	13° H 38'26		retrograde	718 Jan 28 j 15:32	27° B 15'58	
inferior conj	717 Feb 23 j 22:00	8° H 48'00	3°34'17	evening set	718 Jan 31 j 11:07	26° B 36'26	
minimum elong	717 Feb 24 j 00:15	8° H 42'50	3°34'02				

inferior conj	718 Feb 06 j 18:06	21° \approx 25'26	3°47'44	inferior conj	719 Jan 21 j 03:12	4° \approx 26'15	3°41'11
minimum elong	718 Feb 06 j 18:13	21° \approx 25'08	3°47'45	minimum elong	719 Jan 21 j 01:41	4° \approx 30'41	3°41'02
min. Earth dist.	718 Feb 09 j 13:30	18° \approx 30'30	0.62474 AU	min. Earth dist.	719 Jan 23 j 07:21	1° \approx 55'30	0.64280 AU
morning rise	718 Feb 13 j 00:13	15° \approx 27'18			719 Jan 25 j 02:21	30° \approx 30	
direct	718 Feb 19 j 23:41	12° \approx 51'10		morning rise	719 Jan 26 j 21:28	28° \approx 20'30	
desc. node	718 Feb 27 j 03:22	15° \approx 10'31		direct	719 Feb 02 j 18:41	25° \approx 30'05	
morning max el	718 Mar 05 j 23:33	20° \approx 44'49	27°48'02		719 Feb 12 j 16:37	0° \approx	
	718 Mar 13 j 23:46	0° \approx		desc. node	719 Feb 14 j 00:25	1° \approx 07'44	
	718 Apr 02 j 00:41	0° \approx		morning max el	719 Feb 16 j 08:16	3° \approx 19'44	27°26'36
morning set	718 Apr 08 j 17:29	12° \approx 57'44			719 Mar 08 j 09:16	0° \approx	
max. Earth dist.	718 Apr 14 j 08:01	24° \approx 40'48	1.32694 AU	morning set	719 Mar 23 j 11:41	26° \approx 52'27	
					719 Mar 25 j 01:29	0° \approx	
superior conj	718 Apr 16 j 05:46	28° \approx 47'35	-0°07'35	max. Earth dist.	719 Mar 28 j 09:09	6° \approx 46'23	1.33492 AU
minimum elong	718 Apr 16 j 06:08	28° \approx 49'32	0°07'31				
behind sun begin	718 Apr 16 j 01:32	28° \approx 24'39		superior conj	719 Mar 31 j 11:25	13° \approx 16'38	-0°34'47
behind sun end	718 Apr 16 j 10:43	29° \approx 14'26		minimum elong	719 Mar 31 j 13:07	13° \approx 25'41	0°34'26
asc. node	718 Apr 16 j 22:58	0° \approx 20'52		asc. node	719 Apr 03 j 20:01	20° \approx 27'14	
	718 Apr 16 j 19:07	0° \approx		evening rise	719 Apr 07 j 16:36	28° \approx 39'42	
evening rise	718 Apr 23 j 05:17	13° \approx 52'31			719 Apr 08 j 07:57	0° \approx	
	718 May 01 j 08:32	0° \approx			719 Apr 26 j 02:22	0° \approx	
evening max el	718 May 17 j 14:17	22° \approx 50'08	24°00'31	evening max el	719 Apr 29 j 06:09	3° \approx 23'20	22°24'57
desc. node	718 May 26 j 02:35	28° \approx 42'34		retrograde	719 May 12 j 06:00	9° \approx 48'14	
retrograde	718 May 31 j 09:32	29° \approx 46'11		desc. node	719 May 12 j 23:36	9° \approx 47'02	
evening set	718 Jun 04 j 17:34	29° \approx 04'36		evening set	719 May 15 j 05:31	9° \approx 28'42	
min. Earth dist.	718 Jun 11 j 01:18	26° \approx 01'44	0.56374 AU	min. Earth dist.	719 May 23 j 13:24	5° \approx 53'14	0.55234 AU
inferior conj	718 Jun 13 j 12:01	24° \approx 31'15	-4°21'57	inferior conj	719 May 24 j 13:52	5° \approx 18'37	-3°08'12
minimum elong	718 Jun 13 j 06:21	24° \approx 40'02	4°21'02	minimum elong	719 May 24 j 06:27	5° \approx 29'07	3°06'04
morning rise	718 Jun 21 j 21:52	20° \approx 31'23		morning rise	719 Jun 02 j 09:20	1° \approx 25'39	
direct	718 Jun 24 j 13:49	20° \approx 12'54		direct	719 Jun 05 j 06:37	1° \approx 06'40	
morning max el	718 Jul 04 j 10:24	24° \approx 47'06	19°48'56	morning max el	719 Jun 16 j 18:30	6° \approx 28'00	21°08'28
	718 Jul 09 j 00:43	0° \approx		asc. node	719 Jun 30 j 19:16	26° \approx 30'40	
asc. node	718 Jul 13 j 22:12	7° \approx 26'56			719 Jul 02 j 15:08	0° \approx	
morning set	718 Jul 22 j 05:51	23° \approx 10'52		morning set	719 Jul 06 j 13:34	7° \approx 55'06	
	718 Jul 25 j 14:29	0° \approx					
superior conj	718 Jul 30 j 02:57	9° \approx 06'44	1°46'33	superior conj	719 Jul 13 j 23:48	23° \approx 23'31	1°41'47
minimum elong	718 Jul 30 j 02:44	9° \approx 05'39	1°46'33	minimum elong	719 Jul 13 j 22:14	23° \approx 15'29	1°41'42
max. Earth dist.	718 Aug 04 j 19:53	20° \approx 09'58	1.37183 AU	max. Earth dist.	719 Jul 17 j 05:36	0° \approx	
evening rise	718 Aug 08 j 15:52	27° \approx 13'17		evening rise	719 Jul 18 j 06:05	2° \approx 02'15	1.35446 AU
	718 Aug 10 j 05:14	0° \approx			719 Jul 22 j 12:07	10° \approx 16'47	
desc. node	718 Aug 22 j 01:56	19° \approx 34'27		desc. node	719 Aug 02 j 17:42	0° \approx	
	718 Aug 29 j 03:50	0° \approx			719 Aug 08 j 22:57	9° \approx 40'46	
evening max el	718 Sep 13 j 11:44	18° \approx 44'29	25°32'29		719 Aug 24 j 15:53	0° \approx	
retrograde	718 Sep 25 j 15:23	25° \approx 43'07		evening max el	719 Aug 26 j 23:45	2° \approx 21'42	26°33'13
evening set	718 Oct 01 j 14:59	23° \approx 12'21		retrograde	719 Sep 08 j 20:46	9° \approx 34'39	
min. Earth dist.	718 Oct 06 j 00:11	18° \approx 21'45	0.66972 AU	evening set	719 Sep 15 j 10:05	6° \approx 52'46	
inferior conj	718 Oct 07 j 03:52	16° \approx 52'47	-0°56'19	min. Earth dist.	719 Sep 19 j 11:49	2° \approx 39'08	0.66095 AU
minimum elong	718 Oct 07 j 05:18	16° \approx 48'11	0°55'41	inferior conj	719 Sep 21 j 03:16	0° \approx 40'24	-1°53'15
asc. node	718 Oct 09 j 21:26	13° \approx 32'50		minimum elong	719 Sep 21 j 06:12	0° \approx 31'34	1°52'05
morning rise	718 Oct 12 j 19:49	10° \approx 56'07			719 Sep 21 j 16:44	30° \approx 30	
direct	718 Oct 16 j 04:09	9° \approx 51'22		asc. node	719 Sep 26 j 18:29	25° \approx 07'00	
morning max el	718 Oct 23 j 07:32	13° \approx 53'25	19°21'18	morning rise	719 Sep 27 j 02:47	24° \approx 54'52	
	718 Nov 04 j 09:26	0° \approx		direct	719 Sep 30 j 02:04	24° \approx 05'11	
morning set	718 Nov 16 j 02:42	18° \approx 00'54		morning max el	719 Oct 06 j 18:27	27° \approx 46'10	18°34'47
desc. node	718 Nov 18 j 01:14	21° \approx 01'47			719 Oct 08 j 18:52	0° \approx	
	718 Nov 23 j 19:12	0° \approx		morning set	719 Oct 27 j 02:37	27° \approx 40'08	
max. Earth dist.	718 Nov 29 j 15:33	9° \approx 11'42	1.44627 AU		719 Oct 28 j 13:37	0° \approx	
				desc. node	719 Nov 04 j 22:17	11° \approx 41'46	
superior conj	718 Dec 02 j 21:13	14° \approx 19'47	-1°28'18	superior conj	719 Nov 11 j 22:48	22° \approx 45'25	-0°45'18
minimum elong	718 Dec 02 j 12:45	13° \approx 46'02	1°27'27	minimum elong	719 Nov 11 j 16:58	22° \approx 22'31	0°44'34
	718 Dec 12 j 13:59	0° \approx		max. Earth dist.	719 Nov 12 j 10:02	23° \approx 29'35	1.45079 AU
evening rise	718 Dec 17 j 06:53	7° \approx 34'03			719 Nov 16 j 13:25	0° \approx	
	718 Dec 31 j 00:13	0° \approx		evening rise	719 Nov 27 j 22:17	17° \approx 57'38	
evening max el	719 Jan 05 j 15:55	7° \approx 12'04	18°26'36		719 Dec 05 j 12:11	0° \approx	
asc. node	719 Jan 05 j 20:44	7° \approx 24'09		greatest brilliancy	719 Dec 06 j 15:17	1° \approx 34'52	-0.8m
retrograde	719 Jan 12 j 04:42	10° \approx 46'49		evening max el	719 Dec 20 j 02:05	20° \approx 38'28	19°01'40
evening set	719 Jan 15 j 05:21	9° \approx 56'25		asc. node	719 Dec 23 j 17:47	23° \approx 36'45	

retrograde	719 Dec 26 j 23:35	24° ♁ 33'39		retrograde	720 Dec 09 j 21:03	8° ♁ 31'20	
evening set	719 Dec 30 j 06:16	23° ♁ 31'21		asc. node	720 Dec 09 j 14:49	8° ♁ 30'57	
inferior conj	720 Jan 04 j 21:45	17° ♁ 44'19	3°20'07	evening set	720 Dec 13 j 11:24	7° ♁ 15'36	
minimum elong	720 Jan 04 j 19:17	17° ♁ 52'03	3°19'38	inferior conj	720 Dec 18 j 22:44	1° ♁ 14'39	2°48'19
min. Earth dist.	720 Jan 06 j 10:36	15° ♁ 48'34	0.65709 AU	minimum elong	720 Dec 18 j 20:00	1° ♁ 23'45	2°47'33
morning rise	720 Jan 10 j 08:02	11° ♁ 33'52			720 Dec 19 j 21:12	30° ♁	
direct	720 Jan 16 j 20:11	8° ♁ 43'31		min. Earth dist.	720 Dec 19 j 21:45	29° ♁ 58'09	0.66740 AU
morning max el	720 Jan 29 j 18:06	16° ♁ 19'06	26°34'38	morning rise	720 Dec 24 j 04:25	25° ♁ 01'43	
desc. node	720 Jan 31 j 21:29	18° ♁ 33'56		direct	720 Dec 30 j 03:31	22° ♁ 22'40	
	720 Feb 10 j 02:47	0° ♁		morning max el	721 Jan 11 j 03:09	29° ♁ 30'45	25°20'46
	720 Feb 29 j 05:24	0° ♁			721 Jan 11 j 14:38	0° ♁	
morning set	720 Mar 05 j 18:30	10° ♁ 09'01		desc. node	721 Jan 17 j 18:33	7° ♁ 03'10	
max. Earth dist.	720 Mar 09 j 23:34	18° ♁ 18'39	1.34741 AU		721 Feb 02 j 23:20	0° ♁	
				morning set	721 Feb 16 j 09:11	22° ♁ 33'59	
superior conj	720 Mar 14 j 11:03	27° ♁ 22'51	-1°01'47	max. Earth dist.	721 Feb 20 j 02:24	29° ♁ 24'51	1.36428 AU
minimum elong	720 Mar 14 j 14:03	27° ♁ 38'17	1°01'14		721 Feb 20 j 09:53	0° ♁	
	720 Mar 15 j 17:25	0° ♁					
asc. node	720 Mar 20 j 17:05	10° ♁ 25'27		superior conj	721 Feb 26 j 01:53	10° ♁ 58'32	-1°26'53
evening rise	720 Mar 22 j 01:38	13° ♁ 14'31		minimum elong	721 Feb 26 j 05:47	11° ♁ 17'51	1°26'20
	720 Mar 30 j 18:18	0° ♁		evening rise	721 Mar 06 j 06:12	27° ♁ 30'32	
evening max el	720 Apr 10 j 05:54	14° ♁ 16'10	20°56'59		721 Mar 07 j 11:55	0° ♁	
retrograde	720 Apr 21 j 19:23	19° ♁ 52'53		asc. node	721 Mar 07 j 14:09	0° ♁ 11'08	
evening set	720 Apr 24 j 00:21	19° ♁ 41'22		evening max el	721 Mar 23 j 17:06	25° ♁ 46'36	19°45'08
desc. node	720 Apr 28 j 20:39	18° ♁ 05'29			721 Mar 30 j 07:00	0° ♁	
inferior conj	720 May 03 j 07:49	15° ♁ 43'07	-1°17'06	retrograde	721 Apr 02 j 13:13	0° ♁ 30'31	
minimum elong	720 May 03 j 04:10	15° ♁ 48'17	1°15'47	evening set	721 Apr 04 j 15:07	0° ♁ 18'46	
min. Earth dist.	720 May 04 j 02:04	15° ♁ 17'13	0.54982 AU		721 Apr 05 j 22:31	30° ♁	
morning rise	720 May 12 j 07:46	11° ♁ 38'11		inferior conj	721 Apr 13 j 08:36	26° ♁ 16'35	0°40'38
direct	720 May 15 j 16:24	11° ♁ 13'50		minimum elong	721 Apr 13 j 10:20	26° ♁ 13'52	0°40'01
morning max el	720 May 28 j 16:18	17° ♁ 27'27	22°43'51	min. Earth dist.	721 Apr 15 j 16:24	24° ♁ 49'54	0.55692 AU
	720 Jun 07 j 17:19	0° ♁		desc. node	721 Apr 15 j 17:42	24° ♁ 47'56	
asc. node	720 Jun 16 j 16:20	15° ♁ 59'48		morning rise	721 Apr 22 j 03:05	21° ♁ 42'20	
morning set	720 Jun 20 j 00:14	22° ♁ 48'46		direct	721 Apr 26 j 09:07	21° ♁ 02'06	
	720 Jun 23 j 09:35	0° ♁		morning max el	721 May 10 j 07:56	28° ♁ 00'43	24°25'10
					721 May 12 j 07:20	0° ♁	
superior conj	720 Jun 27 j 03:47	8° ♁ 01'53	1°30'56		721 May 31 j 17:10	0° ♁	
minimum elong	720 Jun 27 j 01:30	7° ♁ 49'43	1°30'41	asc. node	721 Jun 03 j 13:24	5° ♁ 47'27	
max. Earth dist.	720 Jun 30 j 01:11	14° ♁ 07'05	1.34066 AU	morning set	721 Jun 04 j 12:07	7° ♁ 46'24	
evening rise	720 Jul 04 j 22:44	24° ♁ 02'36					
	720 Jul 08 j 00:57	0° ♁		superior conj	721 Jun 11 j 12:21	22° ♁ 53'36	1°15'13
desc. node	720 Jul 25 j 19:58	29° ♁ 20'25		minimum elong	721 Jun 11 j 09:53	22° ♁ 40'18	1°14'51
	720 Jul 26 j 07:13	0° ♁		max. Earth dist.	721 Jun 13 j 04:58	26° ♁ 32'59	1.33087 AU
evening max el	720 Aug 08 j 11:35	15° ♁ 47'54	27°13'07		721 Jun 14 j 19:41	0° ♁	
retrograde	720 Aug 21 j 20:44	23° ♁ 06'53		evening rise	721 Jun 18 j 19:43	8° ♁ 19'19	
evening set	720 Aug 28 j 20:44	20° ♁ 21'49			721 Jun 30 j 11:20	0° ♁	
min. Earth dist.	720 Sep 01 j 15:43	16° ♁ 44'45	0.64851 AU	desc. node	721 Jul 12 j 16:59	18° ♁ 22'07	
inferior conj	720 Sep 03 j 19:57	14° ♁ 20'26	-2°49'05	evening max el	721 Jul 21 j 21:47	28° ♁ 51'39	27°25'31
minimum elong	720 Sep 04 j 00:13	14° ♁ 08'39	2°47'38		721 Jul 23 j 03:28	0° ♁	
morning rise	720 Sep 10 j 04:31	8° ♁ 49'14		retrograde	721 Aug 04 j 14:47	6° ♁ 10'35	
direct	720 Sep 12 j 21:06	8° ♁ 11'00		evening set	721 Aug 11 j 19:42	3° ♁ 34'00	
asc. node	720 Sep 12 j 15:33	8° ♁ 11'18		min. Earth dist.	721 Aug 15 j 10:09	0° ♁ 28'58	0.63248 AU
morning max el	720 Sep 19 j 09:20	11° ♁ 40'08	18°04'59		721 Aug 15 j 22:03	30° ♁	
	720 Oct 02 j 01:46	0° ♁		inferior conj	721 Aug 18 j 03:15	27° ♁ 47'03	-3°40'39
morning set	720 Oct 07 j 07:23	8° ♁ 44'15		minimum elong	721 Aug 18 j 08:13	27° ♁ 34'38	3°39'19
	720 Oct 20 j 06:33	0° ♁		morning rise	721 Aug 24 j 21:58	22° ♁ 33'18	
				direct	721 Aug 27 j 10:22	22° ♁ 03'11	
superior conj	720 Oct 21 j 05:35	1° ♁ 32'10	0°03'50	asc. node	721 Aug 30 j 12:37	22° ♁ 49'33	
minimum elong	720 Oct 21 j 06:03	1° ♁ 34'01	0°03'45	morning max el	721 Sep 03 j 01:16	25° ♁ 28'49	17°52'46
behind sun begin	720 Oct 20 j 19:36	0° ♁ 52'16			721 Sep 06 j 19:51	0° ♁	
behind sun end	720 Oct 21 j 16:29	2° ♁ 15'43		morning set	721 Sep 19 j 12:52	20° ♁ 59'31	
desc. node	720 Oct 21 j 19:19	2° ♁ 27'02			721 Sep 24 j 16:54	0° ♁	
max. Earth dist.	720 Oct 25 j 04:48	7° ♁ 50'23	1.44784 AU				
evening rise	720 Nov 06 j 16:14	27° ♁ 18'35		superior conj	721 Oct 01 j 11:04	11° ♁ 27'30	0°47'11
	720 Nov 08 j 10:01	0° ♁		minimum elong	721 Oct 01 j 15:26	11° ♁ 45'40	0°46'37
greatest brilliancy	720 Nov 20 j 04:36	17° ♁ 57'05	-0.7m	max. Earth dist.	721 Oct 07 j 20:56	21° ♁ 56'25	1.43798 AU
	720 Nov 28 j 18:45	0° ♁		desc. node	721 Oct 08 j 16:19	23° ♁ 14'10	
evening max el	720 Dec 02 j 08:02	4° ♁ 06'56	19°52'56		721 Oct 12 j 22:45	0° ♁	

evening rise	721 Oct 16 j 23:40	6°♌17'20		evening max el	722 Oct 29 j 03:28	1°♊06'39	22°12'42
	721 Nov 01 j 19:00	0°♊		retrograde	722 Nov 07 j 14:42	6°♊44'25	
evening max el	721 Nov 15 j 08:31	17°♊36'00	20°57'51	evening set	722 Nov 12 j 02:18	4°♊56'40	
retrograde	721 Nov 23 j 18:42	22°♊35'37		asc. node	722 Nov 13 j 08:54	3°♊46'05	
asc. node	721 Nov 26 j 11:52	21°♊54'06			722 Nov 16 j 10:48	30°♌	
evening set	721 Nov 27 j 18:38	21°♊04'45		inferior conj	722 Nov 17 j 10:40	28°♌37'52	1°21'58
inferior conj	721 Dec 03 j 03:43	14°♊53'08	2°08'18	minimum elong	722 Nov 17 j 08:53	28°♌44'01	1°21'16
minimum elong	721 Dec 03 j 01:14	15°♊01'37	2°07'26	min. Earth dist.	722 Nov 17 j 10:18	28°♌39'08	0.67707 AU
min. Earth dist.	721 Dec 03 j 14:27	14°♊16'16	0.67398 AU	morning rise	722 Nov 22 j 15:19	22°♌26'08	
morning rise	721 Dec 08 j 07:38	8°♊39'43		direct	722 Nov 27 j 08:34	20°♌28'08	
direct	721 Dec 13 j 15:57	6°♊19'25		morning max el	722 Dec 06 j 22:15	26°♌07'43	22°27'07
morning max el	721 Dec 24 j 11:33	12°♊46'36	23°54'55		722 Dec 10 j 10:55	0°♊	
desc. node	722 Jan 04 j 15:34	26°♊16'25		desc. node	722 Dec 22 j 12:36	16°♊01'35	
	722 Jan 07 j 08:32	0°♊			722 Dec 31 j 22:14	0°♊	
	722 Jan 26 j 19:34	0°♊		morning set	723 Jan 09 j 13:51	13°♊41'14	
morning set	722 Jan 29 j 01:33	3°♊49'13		max. Earth dist.	723 Jan 14 j 17:56	22°♊16'44	1.40596 AU
max. Earth dist.	722 Feb 01 j 21:40	10°♊31'21	1.38455 AU		723 Jan 19 j 05:27	0°♊	
superior conj	722 Feb 09 j 04:12	23°♋52'59	-1°47'40	superior conj	723 Jan 22 j 13:23	5°♋55'02	-2°00'45
minimum elong	722 Feb 09 j 08:02	24°♋11'10	1°47'19	minimum elong	723 Jan 22 j 15:26	6°♋04'14	2°00'41
	722 Feb 12 j 08:45	0°♋		evening rise	723 Feb 01 j 15:02	24°♋34'25	
evening rise	722 Feb 18 j 03:41	11°♋19'30			723 Feb 04 j 12:32	0°♋	
asc. node	722 Feb 22 j 11:11	19°♋38'09		asc. node	723 Feb 09 j 08:12	8°♋40'17	
	722 Feb 28 j 10:15	0°♋		evening max el	723 Feb 17 j 20:50	20°♋34'19	18°20'18
evening max el	722 Mar 06 j 15:00	7°♋55'01	18°52'42	retrograde	723 Feb 25 j 02:23	24°♋09'27	
retrograde	722 Mar 14 j 22:16	11°♋56'14		evening set	723 Feb 27 j 14:26	23°♋44'48	
evening set	722 Mar 17 j 04:44	11°♋39'26		inferior conj	723 Mar 06 j 18:41	19°♋06'18	3°14'37
inferior conj	722 Mar 25 j 03:04	7°♋21'38	2°14'57	minimum elong	723 Mar 06 j 22:06	18°♋59'06	3°14'01
minimum elong	722 Mar 25 j 07:15	7°♋14'05	2°13'46	min. Earth dist.	723 Mar 10 j 05:01	16°♋14'23	0.59194 AU
min. Earth dist.	722 Mar 28 j 08:46	5°♋02'43	0.57204 AU	morning rise	723 Mar 14 j 03:21	13°♋32'16	
morning rise	722 Apr 02 j 06:42	2°♋14'11		direct	723 Mar 20 j 10:46	11°♋45'53	
desc. node	722 Apr 02 j 14:44	2°♋05'55		desc. node	723 Mar 20 j 11:46	11°♋45'53	
direct	722 Apr 07 j 15:30	1°♋04'43		morning max el	723 Apr 03 j 18:38	19°♋29'08	27°08'10
morning max el	722 Apr 21 j 23:01	8°♋32'23	25°58'15		723 Apr 12 j 17:08	0°♋	
	722 May 08 j 00:57	0°♋			723 Apr 30 j 16:14	0°♋	
morning set	722 May 19 j 23:34	22°♋42'22		morning set	723 May 04 j 08:55	7°♋30'51	
asc. node	722 May 21 j 10:27	25°♋47'34		asc. node	723 May 08 j 07:29	15°♋55'10	
	722 May 23 j 09:14	0°♋		superior conj	723 May 11 j 11:09	22°♋49'16	0°32'51
superior conj	722 May 26 j 23:24	7°♋51'31	0°55'36	minimum elong	723 May 11 j 09:44	22°♋41'32	0°32'32
minimum elong	722 May 26 j 21:16	7°♋39'49	0°55'12	max. Earth dist.	723 May 11 j 03:34	22°♋07'36	1.32279 AU
max. Earth dist.	722 May 27 j 14:56	9°♋16'43	1.32496 AU		723 May 14 j 17:42	0°♋	
evening rise	722 Jun 02 j 23:50	22°♋56'47		evening rise	723 May 18 j 08:33	7°♋46'20	
	722 Jun 06 j 11:20	0°♋			723 May 29 j 23:24	0°♋	
	722 Jun 24 j 10:10	0°♋		evening max el	723 Jun 16 j 03:52	23°♋04'50	26°13'11
desc. node	722 Jun 29 j 14:00	6°♋30'08		desc. node	723 Jun 16 j 11:02	23°♋21'44	
evening max el	722 Jul 04 j 04:03	11°♋20'42	27°05'47		723 Jun 27 j 12:52	0°♋	
retrograde	722 Jul 18 j 01:49	18°♋36'33		retrograde	723 Jun 30 j 04:10	0°♋16'59	
evening set	722 Jul 25 j 02:52	16°♋22'08			723 Jul 02 j 18:52	30°♌	
min. Earth dist.	722 Jul 28 j 18:18	13°♋38'54	0.61348 AU	evening set	723 Jul 06 j 13:30	28°♋36'45	
inferior conj	722 Jul 31 j 21:59	10°♋52'44	-4°22'53	min. Earth dist.	723 Jul 10 j 16:42	25°♋59'32	0.59296 AU
minimum elong	722 Aug 01 j 02:23	10°♋43'00	4°22'06	inferior conj	723 Jul 14 j 00:30	23°♋27'18	-4°47'38
morning rise	722 Aug 08 j 03:33	5°♋59'22		minimum elong	723 Jul 14 j 02:16	23°♋23'55	4°47'32
direct	722 Aug 10 j 14:24	5°♋34'35		morning rise	723 Jul 21 j 17:10	18°♋56'34	
asc. node	722 Aug 17 j 09:39	8°♋51'30		direct	723 Jul 24 j 04:56	18°♋35'06	
morning max el	722 Aug 17 j 15:18	9°♋05'02	17°59'10	morning max el	723 Aug 01 j 00:20	22°♋20'03	18°25'22
	722 Aug 31 j 06:43	0°♋		asc. node	723 Aug 04 j 06:41	26°♋01'34	
morning set	722 Sep 02 j 12:56	4°♋08'26			723 Aug 07 j 01:39	0°♋	
				morning set	723 Aug 17 j 02:15	17°♋55'44	
superior conj	722 Sep 12 j 19:52	22°♋43'33	1°18'43		723 Aug 23 j 09:57	0°♋	
minimum elong	722 Sep 13 j 00:27	23°♋03'36	1°18'14	superior conj	723 Aug 26 j 04:16	5°♋09'21	1°37'46
	722 Sep 17 j 01:07	0°♋		minimum elong	723 Aug 26 j 07:09	5°♋22'37	1°37'33
max. Earth dist.	722 Sep 20 j 08:35	5°♋33'04	1.42249 AU	max. Earth dist.	723 Sep 02 j 15:05	18°♋28'33	1.40332 AU
desc. node	722 Sep 25 j 13:20	14°♋00'15		evening rise	723 Sep 07 j 01:36	25°♋59'27	
evening rise	722 Sep 26 j 14:19	15°♋39'41			723 Sep 09 j 12:13	0°♋	
	722 Oct 05 j 21:32	0°♋		desc. node	723 Sep 12 j 10:21	4°♋41'12	
	722 Oct 28 j 01:55	0°♋					

	723 Sep 29 j 14:59	0°♌		desc. node	724 Aug 29 j 07:22	25°♏12'53	
evening max el	723 Oct 11 j 17:54	14°♌39'18	23°32'31		724 Sep 01 j 10:16	0°♏	
retrograde	723 Oct 22 j 07:45	20°♌54'05		evening max el	724 Sep 23 j 05:52	28°♏14'52	24°50'52
evening set	723 Oct 27 j 08:44	18°♌48'34			724 Sep 25 j 02:36	0°♌	
asc. node	723 Oct 31 j 05:55	14°♌27'42		retrograde	724 Oct 04 j 20:54	5°♌00'46	
inferior conj	723 Nov 01 j 17:47	12°♌26'13	0°30'48	evening set	724 Oct 10 j 12:15	2°♌38'12	
minimum elong	723 Nov 01 j 17:03	12°♌28'43	0°30'29		724 Oct 13 j 01:31	30°♏♏	
min. Earth dist.	723 Nov 01 j 06:52	13°♌03'30	0.67679 AU	min. Earth dist.	724 Oct 15 j 01:52	27°♏27'18	0.67324 AU
morning rise	723 Nov 07 j 01:19	6°♌18'28		inferior conj	724 Oct 15 j 23:20	26°♏16'18	-0°23'51
direct	723 Nov 11 j 04:23	4°♌43'06		minimum elong	724 Oct 15 j 23:56	26°♏14'20	0°23'35
morning max el	723 Nov 19 j 14:50	9°♌37'52	21°05'26	asc. node	724 Oct 17 j 02:58	24°♏45'59	
	723 Dec 05 j 05:34	0°♏		morning rise	724 Oct 21 j 11:43	20°♏14'55	
desc. node	723 Dec 09 j 09:38	6°♏09'23		direct	724 Oct 25 j 02:13	19°♏00'05	
morning set	723 Dec 19 j 22:34	22°♏17'01		morning max el	724 Nov 01 j 15:09	23°♏18'41	19°55'13
	723 Dec 24 j 19:20	0°♏			724 Nov 07 j 06:10	0°♌	
max. Earth dist.	723 Dec 27 j 21:15	4°♏59'15	1.42543 AU	desc. node	724 Nov 25 j 06:39	26°♌33'13	
				morning set	724 Nov 27 j 18:49	0°♏25'00	
superior conj	724 Jan 04 j 00:06	16°♏51'47	-2°01'43		724 Nov 27 j 12:20	0°♏	
minimum elong	724 Jan 03 j 22:03	16°♏43'06	2°01'41	max. Earth dist.	724 Dec 09 j 07:54	18°♏30'44	1.44037 AU
	724 Jan 11 j 13:01	0°♏					
evening rise	724 Jan 15 j 12:31	7°♏07'20		superior conj	724 Dec 14 j 08:15	26°♏34'51	-1°45'57
asc. node	724 Jan 27 j 05:14	27°♏09'43		minimum elong	724 Dec 14 j 01:14	26°♏06'21	1°45'25
	724 Jan 29 j 05:28	0°♏			724 Dec 16 j 10:32	0°♏	
evening max el	724 Feb 01 j 07:29	3°♏35'53	18°07'43	evening rise	724 Dec 27 j 15:47	18°♏49'24	
retrograde	724 Feb 07 j 23:01	7°♏00'51			725 Jan 03 j 05:03	0°♏	
evening set	724 Feb 10 j 15:53	6°♏27'01		asc. node	725 Jan 13 j 02:16	14°♏56'05	
inferior conj	724 Feb 17 j 05:33	1°♏27'21	3°42'52	evening max el	725 Jan 14 j 19:58	16°♏51'25	18°14'23
minimum elong	724 Feb 17 j 06:52	1°♏24'08	3°42'47	retrograde	725 Jan 21 j 07:26	20°♏19'34	
	724 Feb 18 j 17:16	30°♏♏		evening set	725 Jan 24 j 04:59	19°♏35'38	
min. Earth dist.	724 Feb 20 j 08:16	28°♏26'56	0.61307 AU	inferior conj	725 Jan 30 j 07:42	14°♏16'09	3°47'04
morning rise	724 Feb 23 j 20:19	25°♏35'42		minimum elong	725 Jan 30 j 07:02	14°♏17'58	3°47'02
direct	724 Mar 01 j 16:43	23°♏14'58		min. Earth dist.	725 Feb 01 j 20:45	11°♏29'34	0.63275 AU
desc. node	724 Mar 06 j 08:49	24°♏14'18		morning rise	725 Feb 05 j 08:14	8°♏13'59	
	724 Mar 14 j 17:02	0°♏		direct	725 Feb 12 j 07:33	5°♏30'00	
morning max el	724 Mar 15 j 20:47	1°♏06'39	27°44'19	desc. node	725 Feb 21 j 05:52	9°♏05'43	
	724 Apr 05 j 20:38	0°♏		morning max el	725 Feb 26 j 04:01	13°♏23'44	27°43'11
morning set	724 Apr 17 j 14:21	22°♏05'39			725 Mar 11 j 12:46	0°♏	
	724 Apr 21 j 08:47	0°♏			725 Mar 29 j 08:23	0°♏	
max. Earth dist.	724 Apr 23 j 14:59	4°♏52'27	1.32432 AU	morning set	725 Apr 01 j 13:29	6°♏17'49	
asc. node	724 Apr 24 j 04:31	6°♏06'01		max. Earth dist.	725 Apr 06 j 20:56	17°♏15'22	1.32979 AU
superior conj	724 Apr 24 j 21:58	7°♏41'14	0°07'42	superior conj	725 Apr 09 j 06:03	22°♏20'24	-0°19'03
minimum elong	724 Apr 24 j 21:37	7°♏39'18	0°07'37	minimum elong	725 Apr 09 j 06:58	22°♏25'21	0°18'51
behind sun begin	724 Apr 24 j 17:07	7°♏14'47		asc. node	725 Apr 11 j 01:33	26°♏15'08	
behind sun end	724 Apr 25 j 02:06	8°♏03'49			725 Apr 12 j 19:09	0°♏	
evening rise	724 May 01 j 19:47	22°♏40'42		evening rise	725 Apr 16 j 07:35	7°♏32'04	
	724 May 05 j 08:46	0°♏			725 Apr 28 j 04:15	0°♏	
	724 May 24 j 00:47	0°♏		evening max el	725 May 09 j 11:00	14°♏39'09	23°19'38
evening max el	724 May 27 j 20:52	4°♏05'07	24°53'38	desc. node	725 May 20 j 05:05	21°♏07'24	
desc. node	724 Jun 02 j 08:02	8°♏26'33		retrograde	725 May 23 j 00:14	21°♏25'14	
retrograde	724 Jun 10 j 20:14	11°♏10'43		evening set	725 May 26 j 17:19	20°♏54'57	
evening set	724 Jun 16 j 00:52	10°♏09'12		min. Earth dist.	725 Jun 02 j 20:59	17°♏39'33	0.55793 AU
min. Earth dist.	724 Jun 21 j 08:15	7°♏20'03	0.57335 AU	inferior conj	725 Jun 04 j 19:00	16°♏31'40	-3°56'23
inferior conj	724 Jun 24 j 07:43	5°♏21'49	-4°43'05	minimum elong	725 Jun 04 j 11:57	16°♏42'07	3°54'51
minimum elong	724 Jun 24 j 04:47	5°♏26'42	4°42'51	morning rise	725 Jun 13 j 09:18	12°♏36'48	
morning rise	724 Jul 02 j 11:26	1°♏12'49		direct	725 Jun 16 j 02:50	12°♏18'39	
direct	724 Jul 05 j 01:35	0°♏53'35		morning max el	725 Jun 26 j 16:11	17°♏11'36	20°20'29
morning max el	724 Jul 14 j 01:27	5°♏05'22	19°12'24		725 Jul 06 j 09:25	0°♏	
asc. node	724 Jul 21 j 03:44	14°♏05'24		asc. node	725 Jul 08 j 00:48	2°♏49'59	
	724 Jul 29 j 22:23	0°♏		morning set	725 Jul 15 j 05:57	16°♏46'11	
morning set	724 Jul 31 j 00:54	2°♏11'03			725 Jul 21 j 16:34	0°♏	
superior conj	724 Aug 08 j 06:37	18°♏29'27	1°45'56	superior conj	725 Jul 22 j 21:52	2°♏28'49	1°45'21
minimum elong	724 Aug 08 j 07:26	18°♏33'25	1°45'55	minimum elong	725 Jul 22 j 21:00	2°♏24'28	1°45'20
	724 Aug 14 j 09:09	0°♏		max. Earth dist.	725 Jul 28 j 00:02	12°♏32'39	1.36402 AU
max. Earth dist.	724 Aug 14 j 18:27	0°♏42'26	1.38301 AU	evening rise	725 Jul 31 j 23:17	20°♏00'58	
evening rise	724 Aug 18 j 13:30	7°♏28'31			725 Aug 06 j 14:10	0°♏	

desc. node	725 Aug 16 j 04:23	15°♎30'13		evening rise	726 Jul 15 j 02:12	3°♏24'05	
	725 Aug 26 j 10:26	0°♏			726 Jul 30 j 10:41	0°♎	
evening max el	725 Sep 05 j 17:29	11°♏52'41	26°00'25	desc. node	726 Aug 03 j 01:26	5°♎26'11	
retrograde	725 Sep 18 j 05:30	18°♏59'33		evening max el	726 Aug 19 j 05:39	25°♎26'46	26°53'18
evening set	725 Sep 24 j 11:05	16°♏23'11			726 Aug 24 j 18:51	0°♏	
min. Earth dist.	725 Sep 28 j 16:58	11°♏48'09	0.66635 AU	retrograde	726 Sep 01 j 08:45	2°♏43'24	
inferior conj	725 Sep 30 j 01:35	10°♏05'54	-1°20'28	evening set	726 Sep 08 j 02:55	29°♎59'16	
minimum elong	725 Sep 30 j 03:39	9°♏59'23	1°19'36		726 Sep 08 j 02:34	30°♎	
asc. node	725 Oct 04 j 00:01	5°♏38'53		min. Earth dist.	726 Sep 12 j 01:43	26°♎01'07	0.65603 AU
morning rise	725 Oct 05 j 20:34	4°♏13'38		inferior conj	726 Sep 13 j 22:26	23°♎50'56	-2°17'16
direct	725 Oct 09 j 00:39	3°♏15'55		minimum elong	726 Sep 14 j 01:58	23°♎40'37	2°15'56
morning max el	725 Oct 15 j 22:42	7°♏08'14	18°59'31	morning rise	726 Sep 20 j 01:37	18°♎10'50	
	725 Nov 01 j 05:18	0°♎		asc. node	726 Sep 20 j 21:06	17°♎49'09	
morning set	725 Nov 07 j 03:36	9°♎17'23		direct	726 Sep 22 j 21:41	17°♎26'28	
desc. node	725 Nov 12 j 03:41	17°♎08'27		morning max el	726 Sep 29 j 11:34	21°♎01'41	18°19'57
	725 Nov 20 j 08:23	0°♎			726 Oct 06 j 10:04	0°♏	
max. Earth dist.	725 Nov 21 j 23:50	2°♎35'08	1.44899 AU	morning set	726 Oct 18 j 15:52	19°♏33'05	
					726 Oct 25 j 02:50	0°♎	
superior conj	725 Nov 23 j 17:02	5°♎17'28	-1°11'37	desc. node	726 Oct 30 j 00:42	7°♎50'44	
minimum elong	725 Nov 23 j 08:52	4°♎45'15	1°10'42				
evening rise	725 Dec 08 j 20:52	29°♎34'22		superior conj	726 Nov 02 j 18:00	13°♎44'07	-0°24'28
	725 Dec 09 j 03:09	0°♎		minimum elong	726 Nov 02 j 14:49	13°♎31'31	0°24'01
	725 Dec 29 j 01:41	0°♎		max. Earth dist.	726 Nov 04 j 18:35	16°♎55'25	1.45041 AU
evening max el	725 Dec 29 j 07:43	0°♎15'36	18°39'29		726 Nov 13 j 02:48	0°♎	
asc. node	725 Dec 30 j 23:20	1°♎47'20		evening rise	726 Nov 19 j 02:19	9°♎21'38	
retrograde	726 Jan 04 j 23:27	3°♎58'03		greatest brilliancy	726 Nov 30 j 03:13	26°♎33'56	-0.8m
evening set	726 Jan 08 j 02:25	3°♎02'56			726 Dec 02 j 09:25	0°♎	
	726 Jan 11 j 15:52	30°♎		evening max el	726 Dec 12 j 16:21	13°♎43'12	19°21'43
inferior conj	726 Jan 13 j 21:17	27°♎25'31	3°33'47	asc. node	726 Dec 17 j 20:24	17°♎28'09	
minimum elong	726 Jan 13 j 19:16	27°♎31'35	3°33'29	retrograde	726 Dec 19 j 19:36	17°♎49'31	
min. Earth dist.	726 Jan 15 j 18:55	25°♎08'24	0.64931 AU	evening set	726 Dec 23 j 05:22	16°♎41'44	
morning rise	726 Jan 19 j 11:40	21°♎17'21		inferior conj	726 Dec 28 j 18:51	10°♎48'42	3°07'44
direct	726 Jan 26 j 05:44	18°♎24'58		minimum elong	726 Dec 28 j 16:12	10°♎57'15	3°07'07
desc. node	726 Feb 08 j 02:55	25°♎44'36		min. Earth dist.	726 Dec 30 j 01:41	9°♎09'17	0.66199 AU
morning max el	726 Feb 08 j 13:32	26°♎10'57	27°07'45	morning rise	727 Jan 03 j 02:48	4°♎37'08	
	726 Feb 12 j 02:43	0°♎		direct	727 Jan 09 j 09:55	1°♎50'11	
	726 Mar 05 j 01:57	0°♎		morning max el	727 Jan 21 j 22:53	9°♎15'29	26°05'16
morning set	726 Mar 16 j 03:22	19°♎58'13		desc. node	727 Jan 25 j 23:57	13°♎39'38	
max. Earth dist.	726 Mar 20 j 17:37	29°♎06'09	1.33965 AU		727 Feb 07 j 07:31	0°♎	
	726 Mar 21 j 04:10	0°♎			727 Feb 25 j 14:04	0°♎	
				morning set	727 Feb 27 j 03:56	2°♎54'14	
superior conj	726 Mar 24 j 09:28	6°♎40'56	-0°46'20	max. Earth dist.	727 Mar 03 j 02:40	10°♎23'40	1.35408 AU
minimum elong	726 Mar 24 j 11:44	6°♎52'50	0°45'53				
asc. node	726 Mar 28 j 22:37	16°♎18'38		superior conj	727 Mar 08 j 05:45	20°♎35'13	-1°12'46
evening rise	726 Mar 31 j 18:10	22°♎14'43		minimum elong	727 Mar 08 j 09:12	20°♎52'43	1°12'12
	726 Apr 04 j 13:22	0°♎			727 Mar 12 j 19:38	0°♎	
evening max el	726 Apr 21 j 05:36	25°♎18'02	21°45'59	asc. node	727 Mar 15 j 19:42	6°♎12'05	
	726 Apr 27 j 17:45	0°♎		evening rise	727 Mar 16 j 01:33	6°♎42'05	
retrograde	726 May 03 j 16:40	1°♎23'48			727 Mar 29 j 00:29	0°♎	
evening set	726 May 06 j 05:55	1°♎09'13		evening max el	727 Apr 03 j 10:13	6°♎26'22	20°24'13
desc. node	726 May 07 j 02:08	0°♎58'16		retrograde	727 Apr 14 j 05:54	11°♎39'30	
	726 May 09 j 23:59	30°♎		evening set	727 Apr 16 j 08:17	11°♎28'34	
inferior conj	726 May 15 j 15:55	27°♎06'17	-2°24'12	desc. node	727 Apr 23 j 23:09	8°♎22'33	
minimum elong	726 May 15 j 09:32	27°♎15'14	2°22'07	inferior conj	727 Apr 25 j 11:00	7°♎30'47	-0°25'53
min. Earth dist.	726 May 15 j 09:33	27°♎15'12	0.55011 AU	minimum elong	727 Apr 25 j 09:48	7°♎32'33	0°25'27
morning rise	726 May 24 j 14:10	23°♎10'13		min. Earth dist.	727 Apr 26 j 22:46	6°♎38'38	0.55176 AU
direct	726 May 27 j 15:09	22°♎49'49		morning rise	727 May 04 j 09:59	3°♎15'04	
morning max el	726 Jun 08 j 19:38	28°♎34'10	21°47'27	direct	727 May 08 j 02:57	2°♎45'18	
	726 Jun 10 j 06:37	0°♎		morning max el	727 May 21 j 13:58	9°♎19'24	23°26'54
asc. node	726 Jun 24 j 21:52	22°♎05'17			727 Jun 05 j 15:47	0°♎	
	726 Jun 28 j 20:49	0°♎		asc. node	727 Jun 11 j 18:56	11°♎43'21	
morning set	726 Jun 29 j 15:07	1°♎34'41		morning set	727 Jun 14 j 02:32	16°♎31'08	
					727 Jun 20 j 09:32	0°♎	
superior conj	726 Jul 06 j 22:05	16°♎55'39	1°37'50				
minimum elong	726 Jul 06 j 20:08	16°♎45'29	1°37'41	superior conj	727 Jun 21 j 04:18	1°♎40'50	1°24'49
max. Earth dist.	726 Jul 10 j 13:37	24°♎27'11	1.34814 AU	minimum elong	727 Jun 21 j 01:53	1°♎27'50	1°24'30
	726 Jul 13 j 08:14	0°♎		max. Earth dist.	727 Jun 23 j 12:55	6°♎42'34	1.33607 AU

evening rise	727 Jun 28 j 17:44	17°☿25'04		evening rise	728 Jun 11 j 18:05	1°☿51'37	
	727 Jul 05 j 08:15	0°♊			728 Jun 27 j 05:49	0°♊	
desc. node	727 Jul 20 j 22:28	24°♊51'40		desc. node	728 Jul 06 j 19:30	13°♊32'52	
	727 Jul 24 j 20:10	0°♋		evening max el	728 Jul 14 j 02:07	21°♊36'32	27°21'06
evening max el	727 Aug 01 j 17:19	8°♋46'16	27°22'08	retrograde	728 Jul 27 j 21:00	28°♊53'48	
retrograde	727 Aug 15 j 06:04	16°♋04'51		evening set	728 Aug 04 j 01:47	26°♊24'46	
evening set	727 Aug 22 j 09:02	13°♋22'10		min. Earth dist.	728 Aug 07 j 15:41	23°♊30'55	0.62480 AU
min. Earth dist.	727 Aug 26 j 01:51	9°♋59'21	0.64215 AU	inferior conj	728 Aug 10 j 13:51	20°♊45'16	-4°00'04
inferior conj	727 Aug 28 j 11:30	7°♋26'41	-3°11'44	minimum elong	728 Aug 10 j 18:47	20°♊33'33	3°58'55
minimum elong	727 Aug 28 j 16:10	7°♋14'17	3°10'15	morning rise	728 Aug 17 j 13:09	15°♊39'59	
morning rise	727 Sep 04 j 00:15	2°♋02'14		direct	728 Aug 20 j 00:42	15°♊12'19	
direct	727 Sep 06 j 14:50	1°♋27'42		asc. node	728 Aug 24 j 15:09	16°♊49'48	
asc. node	727 Sep 07 j 18:08	1°♋34'21		morning max el	728 Aug 26 j 18:42	18°♊38'29	17°53'10
morning max el	727 Sep 13 j 03:12	4°♋54'11	17°57'33		728 Sep 04 j 00:25	0°♋	
	727 Sep 29 j 15:29	0°♌		morning set	728 Sep 11 j 22:03	13°♋50'17	
morning set	727 Sep 30 j 07:58	1°♌10'16			728 Sep 21 j 02:03	0°♌	
superior conj	727 Oct 13 j 09:00	22°♌55'54	0°23'26	superior conj	728 Sep 23 j 02:15	3°♌26'02	1°02'08
minimum elong	727 Oct 13 j 11:37	23°♌06'31	0°23'05	minimum elong	728 Sep 23 j 07:04	3°♌46'30	1°01'32
desc. node	727 Oct 16 j 21:45	28°♌37'08		max. Earth dist.	728 Sep 30 j 03:49	15°♌10'17	1.43202 AU
	727 Oct 17 j 18:30	0°♍		desc. node	728 Oct 02 j 18:47	19°♌24'10	
max. Earth dist.	727 Oct 18 j 13:02	1°♍13'44	1.44452 AU	evening rise	728 Oct 07 j 22:18	27°♌31'43	
evening rise	727 Oct 29 j 13:57	18°♍28'37			728 Oct 09 j 12:30	0°♍	
	727 Nov 06 j 02:59	0°♎			728 Oct 29 j 23:33	0°♎	
evening max el	727 Nov 25 j 20:07	27°♎11'51	20°19'03	evening max el	728 Nov 07 j 18:06	10°♎40'58	21°28'40
	727 Nov 28 j 23:56	0°♏		retrograde	728 Nov 16 j 14:30	15°♎56'48	
retrograde	727 Dec 03 j 17:18	1°♏50'09		evening set	728 Nov 20 j 19:14	14°♎18'42	
asc. node	727 Dec 04 j 17:26	1°♏44'26		asc. node	728 Nov 20 j 14:25	14°♎27'57	
evening set	727 Dec 07 j 11:36	0°♏28'00		inferior conj	728 Nov 26 j 03:48	8°♎03'21	1°49'18
	727 Dec 08 j 01:51	30°♐♎		minimum elong	728 Nov 26 j 01:35	8°♎11'02	1°48'29
inferior conj	727 Dec 12 j 21:46	24°♎22'07	2°32'10	min. Earth dist.	728 Nov 26 j 09:37	7°♎43'15	0.67570 AU
minimum elong	727 Dec 12 j 19:05	24°♎31'11	2°31'21	morning rise	728 Dec 01 j 07:46	1°♎50'27	
min. Earth dist.	727 Dec 13 j 15:20	23°♎22'49	0.67071 AU		728 Dec 04 j 08:35	30°♐♍	
morning rise	727 Dec 18 j 02:24	18°♎09'00		direct	728 Dec 06 j 09:30	29°♍39'43	
direct	727 Dec 23 j 19:22	15°♎37'24			728 Dec 08 j 12:58	0°♎	
morning max el	728 Jan 04 j 07:22	22°♎28'35	24°45'06	morning max el	728 Dec 16 j 16:30	5°♎46'57	23°17'21
	728 Jan 10 j 22:05	0°♏		desc. node	728 Dec 29 j 18:00	21°♎56'44	
desc. node	728 Jan 12 j 20:58	2°♏28'48			729 Jan 04 j 09:02	0°♏	
	728 Jan 31 j 15:18	0°♐		morning set	729 Jan 20 j 14:54	25°♏31'57	
morning set	728 Feb 09 j 09:52	14°♐50'48			729 Jan 23 j 06:06	0°♐	
max. Earth dist.	728 Feb 13 j 01:41	21°♐26'15	1.37262 AU	max. Earth dist.	729 Jan 24 j 20:48	2°♐47'06	1.39364 AU
	728 Feb 17 j 15:14	0°♑		superior conj	729 Feb 01 j 11:22	16°♐27'44	-1°54'24
superior conj	728 Feb 19 j 15:44	3°♑54'17	-1°36'23	minimum elong	729 Feb 01 j 14:43	16°♐43'13	1°54'11
minimum elong	728 Feb 19 j 19:45	4°♑13'54	1°35'55		729 Feb 08 j 14:32	0°♑	
evening rise	728 Feb 28 j 03:26	20°♑47'19		evening rise	729 Feb 10 j 21:03	4°♑23'01	
asc. node	728 Mar 01 j 16:44	25°♑50'22		asc. node	729 Feb 16 j 13:46	15°♑07'47	
	728 Mar 03 j 20:43	0°♒			729 Feb 26 j 13:43	0°♒	
evening max el	728 Mar 16 j 02:09	18°♒12'52	19°20'22	evening max el	729 Feb 27 j 03:44	0°♒35'06	18°36'29
retrograde	728 Mar 25 j 05:23	22°♒37'02		retrograde	729 Mar 06 j 22:51	4°♒23'42	
evening set	728 Mar 27 j 08:55	22°♒23'30		evening set	729 Mar 09 j 07:34	4°♒03'55	
inferior conj	728 Apr 04 j 18:20	18°♒15'15	1°24'38		729 Mar 16 j 10:09	30°♐♑	
minimum elong	728 Apr 04 j 21:35	18°♒09'53	1°23'33	inferior conj	729 Mar 16 j 21:52	29°♑37'29	2°44'28
min. Earth dist.	728 Apr 07 j 13:28	16°♒25'02	0.56252 AU	minimum elong	729 Mar 17 j 02:00	29°♑29'29	2°43'29
desc. node	728 Apr 09 j 20:11	15°♒02'50		min. Earth dist.	729 Mar 20 j 07:18	27°♑01'39	0.58003 AU
morning rise	728 Apr 13 j 07:28	13°♒26'57		morning rise	729 Mar 24 j 17:31	24°♑17'15	
direct	728 Apr 18 j 00:42	12°♒36'03		desc. node	729 Mar 27 j 17:12	23°♑12'44	
morning max el	728 May 02 j 04:35	19°♒48'09	25°06'49	direct	729 Mar 30 j 12:35	22°♑52'43	
	728 May 10 j 20:10	0°♓			729 Apr 13 j 09:27	0°♒	
	728 May 27 j 21:29	0°♑		morning max el	729 Apr 13 j 21:27	0°♒28'47	26°31'41
morning set	728 May 28 j 14:27	1°♑28'59			729 May 04 j 17:21	0°♓	
asc. node	728 May 28 j 15:58	1°♑37'00		morning set	729 May 13 j 01:14	16°♓22'43	
				asc. node	729 May 15 j 13:01	21°♓41'01	
superior conj	728 Jun 04 j 14:08	16°♑35'55	1°07'21		729 May 19 j 08:30	0°♑	
minimum elong	728 Jun 04 j 11:46	16°♑22'59	1°06'56	superior conj	729 May 20 j 01:42	1°♑34'31	0°46'18
max. Earth dist.	728 Jun 05 j 19:56	19°♑18'07	1.32791 AU	minimum elong	729 May 19 j 23:50	1°♑24'15	0°45'55
	728 Jun 10 j 20:27	0°♒					

max. Earth dist.	729 May 20 j 07:29	2° Π 06'16	1.32356 AU	superior conj	730 May 04 j 13:16	16° \mathcal{B} 30'10	0°22'25
evening rise	729 May 27 j 00:25	16° Π 34'54		minimum elong	730 May 04 j 12:16	16° \mathcal{B} 24'42	0°22'13
	729 Jun 02 j 18:19	0° \mathcal{E}			730 May 10 j 18:05	0° Π	
	729 Jun 22 j 14:30	0° Ω		evening rise	730 May 11 j 10:25	1° Π 26'41	
desc. node	729 Jun 23 j 16:30	1° Ω 11'22			730 May 26 j 23:15	0° \mathcal{E}	
evening max el	729 Jun 26 j 05:36	3° Ω 46'05	26°47'06	evening max el	730 Jun 08 j 02:20	15° \mathcal{E} 10'24	25°42'08
retrograde	729 Jul 10 j 04:44	11° Ω 01'08		desc. node	730 Jun 10 j 13:30	17° \mathcal{E} 21'36	
evening set	729 Jul 17 j 00:47	8° Ω 59'39		retrograde	730 Jun 22 j 03:23	22° \mathcal{E} 21'09	
min. Earth dist.	729 Jul 20 j 19:20	6° Ω 21'23	0.60487 AU	evening set	730 Jun 28 j 01:41	20° \mathcal{E} 57'38	
inferior conj	729 Jul 24 j 02:05	3° Ω 38'19	-4°36'06	min. Earth dist.	730 Jul 02 j 14:43	18° \mathcal{E} 17'06	0.58428 AU
minimum elong	729 Jul 24 j 05:39	3° Ω 30'52	4°35'39	inferior conj	730 Jul 05 j 20:44	15° \mathcal{E} 56'54	-4°50'08
	729 Jul 29 j 01:23	30° $\mathcal{R}\mathcal{E}$		minimum elong	730 Jul 05 j 20:41	15° \mathcal{E} 57'00	4°50'08
morning rise	729 Jul 31 j 12:25	28° \mathcal{E} 54'47		morning rise	730 Jul 13 j 18:07	11° \mathcal{E} 35'43	
direct	729 Aug 02 j 23:21	28° \mathcal{E} 31'42		direct	730 Jul 16 j 06:32	11° \mathcal{E} 15'27	
	729 Aug 07 j 15:35	0° Ω		morning max el	730 Jul 24 j 13:07	15° \mathcal{E} 10'36	18°42'44
morning max el	729 Aug 10 j 07:02	2° Ω 06'50	18°07'49	asc. node	730 Jul 29 j 09:16	20° \mathcal{E} 56'59	
asc. node	729 Aug 11 j 12:11	3° Ω 22'18			730 Aug 03 j 22:46	0° Ω	
morning set	729 Aug 26 j 04:15	27° Ω 16'24		morning set	730 Aug 09 j 22:00	11° Ω 16'46	
	729 Aug 27 j 15:11	0° \mathcal{M}					
superior conj	729 Sep 04 j 21:45	15° \mathcal{M} 13'33	1°28'15	superior conj	730 Aug 18 j 14:29	28° Ω 04'25	1°42'25
minimum elong	729 Sep 05 j 01:44	15° \mathcal{M} 31'21	1°27'52	minimum elong	730 Aug 18 j 16:29	28° Ω 13'48	1°42'19
max. Earth dist.	729 Sep 12 j 12:48	28° \mathcal{M} 28'34	1.41462 AU		730 Aug 19 j 15:06	0° \mathcal{M}	
	729 Sep 13 j 10:37	0° \mathcal{A}		max. Earth dist.	730 Aug 25 j 17:07	11° \mathcal{M} 03'47	1.39467 AU
evening rise	729 Sep 17 j 20:31	7° \mathcal{A} 14'48		evening rise	730 Aug 29 j 18:24	18° \mathcal{M} 04'35	
desc. node	729 Sep 19 j 15:48	10° \mathcal{A} 08'19			730 Sep 06 j 01:10	0° \mathcal{A}	
	729 Oct 02 j 17:03	0° \mathcal{M}		desc. node	730 Sep 06 j 12:50	0° \mathcal{A} 46'01	
evening max el	729 Oct 21 j 10:44	24° \mathcal{M} 11'24	22°46'24		730 Sep 27 j 02:37	0° \mathcal{M}	
	729 Oct 30 j 06:08	0° \mathcal{A}		evening max el	730 Oct 03 j 23:57	7° \mathcal{M} 45'48	24°06'30
retrograde	729 Oct 31 j 09:32	0° \mathcal{A} 06'05		retrograde	730 Oct 15 j 01:06	14° \mathcal{M} 15'01	
	729 Nov 01 j 12:12	30° $\mathcal{R}\mathcal{M}$		evening set	730 Oct 20 j 07:59	12° \mathcal{M} 02'20	
evening set	729 Nov 05 j 02:34	28° \mathcal{M} 10'49		min. Earth dist.	730 Oct 25 j 02:28	6° \mathcal{M} 31'19	0.67567 AU
asc. node	729 Nov 07 j 11:26	25° \mathcal{M} 45'45		asc. node	730 Oct 25 j 08:28	6° \mathcal{M} 11'03	
inferior conj	729 Nov 10 j 11:02	21° \mathcal{M} 49'46	1°00'47	inferior conj	730 Oct 25 j 17:45	5° \mathcal{M} 39'40	0°08'00
minimum elong	729 Nov 10 j 09:40	21° \mathcal{M} 54'30	1°00'13	minimum elong	730 Oct 25 j 17:33	5° \mathcal{M} 40'20	0°07'55
min. Earth dist.	729 Nov 10 j 06:08	22° \mathcal{M} 06'42	0.67730 AU	transit middle	730 Oct 25 j 17:33	5° \mathcal{M} 40'20	0°07'55
morning rise	729 Nov 15 j 16:39	15° \mathcal{M} 39'15		transit begin	730 Oct 25 j 15:10	5° \mathcal{M} 48'23	
direct	729 Nov 20 j 03:37	13° \mathcal{M} 51'06		transit end	730 Oct 25 j 19:56	5° \mathcal{M} 32'16	
morning max el	729 Nov 29 j 05:24	19° \mathcal{M} 11'30	21°51'12		730 Oct 30 j 14:00	30° $\mathcal{R}\mathcal{A}$	
	729 Dec 08 j 04:42	0° \mathcal{A}		morning rise	730 Oct 31 j 03:05	29° \mathcal{A} 34'01	
desc. node	729 Dec 16 j 15:02	11° \mathcal{A} 52'06		direct	730 Nov 04 j 00:36	28° \mathcal{A} 07'35	
	729 Dec 28 j 13:54	0° \mathcal{B}			730 Nov 08 j 21:03	0° \mathcal{M}	
morning set	729 Dec 31 j 14:41	4° \mathcal{B} 48'23		morning max el	730 Nov 12 j 01:05	2° \mathcal{M} 45'56	20°33'50
max. Earth dist.	730 Jan 06 j 19:10	14° \mathcal{B} 53'57	1.41458 AU		730 Dec 02 j 02:17	0° \mathcal{A}	
				desc. node	730 Dec 03 j 12:05	2° \mathcal{A} 07'32	
superior conj	730 Jan 14 j 11:35	28° \mathcal{B} 02'44	-2°02'57	morning set	730 Dec 10 j 15:13	13° \mathcal{A} 03'24	
minimum elong	730 Jan 14 j 12:10	28° \mathcal{B} 05'18	2°02'56	max. Earth dist.	730 Dec 20 j 01:20	27° \mathcal{A} 57'28	1.43252 AU
	730 Jan 15 j 14:10	0° \mathcal{A}			730 Dec 21 j 07:37	0° \mathcal{B}	
evening rise	730 Jan 25 j 02:59	17° \mathcal{A} 20'30		superior conj	730 Dec 26 j 11:19	8° \mathcal{B} 28'42	-1°57'18
	730 Feb 01 j 02:34	0° \mathcal{H}		minimum elong	730 Dec 26 j 07:04	8° \mathcal{B} 10'58	1°57'06
asc. node	730 Feb 03 j 10:48	3° \mathcal{H} 56'45		evening rise	731 Jan 07 j 17:15	29° \mathcal{B} 32'18	
evening max el	730 Feb 10 j 11:59	13° \mathcal{H} 24'25	18°12'37		731 Jan 07 j 23:32	0° \mathcal{A}	
retrograde	730 Feb 17 j 10:21	16° \mathcal{H} 53'26		asc. node	731 Jan 21 j 07:49	22° \mathcal{A} 08'58	
evening set	730 Feb 20 j 00:25	16° \mathcal{H} 25'08		evening max el	731 Jan 24 j 23:50	26° \mathcal{A} 32'51	18°08'16
inferior conj	730 Feb 26 j 22:03	11° \mathcal{H} 37'54	3°30'00	retrograde	731 Jan 31 j 12:21	29° \mathcal{A} 57'15	
minimum elong	730 Feb 27 j 00:38	11° \mathcal{H} 32'06	3°29'40	evening set	731 Feb 03 j 07:17	29° \mathcal{A} 19'08	
min. Earth dist.	730 Mar 02 j 06:26	8° \mathcal{H} 38'58	0.60092 AU	inferior conj	731 Feb 09 j 15:53	24° \mathcal{A} 11'00	3°47'08
morning rise	730 Mar 05 j 22:44	5° \mathcal{H} 55'10		minimum elong	731 Feb 09 j 16:18	24° \mathcal{A} 09'56	3°47'06
direct	730 Mar 12 j 13:01	3° \mathcal{H} 52'52		min. Earth dist.	731 Feb 12 j 13:20	21° \mathcal{A} 14'02	0.62184 AU
desc. node	730 Mar 14 j 14:14	4° \mathcal{H} 04'13		morning rise	731 Feb 16 j 00:08	18° \mathcal{A} 14'27	
morning max el	730 Mar 26 j 19:48	11° \mathcal{H} 41'23	27°28'00	direct	731 Feb 22 j 23:10	15° \mathcal{A} 41'53	
	730 Apr 10 j 04:25	0° \mathcal{Y}		desc. node	731 Mar 01 j 11:17	17° \mathcal{A} 37'08	
	730 Apr 26 j 20:27	0° \mathcal{B}		morning max el	731 Mar 09 j 00:06	23° \mathcal{A} 34'55	27°48'14
morning set	730 Apr 27 j 09:09	1° \mathcal{B} 05'38			731 Mar 14 j 18:26	0° \mathcal{H}	
asc. node	730 May 02 j 10:05	11° \mathcal{B} 50'14			731 Apr 03 j 10:23	0° \mathcal{Y}	
max. Earth dist.	730 May 03 j 19:49	14° \mathcal{B} 54'28	1.32290 AU	morning set	731 Apr 11 j 12:11	15° \mathcal{Y} 30'56	
				max. Earth dist.	731 Apr 17 j 05:15	27° \mathcal{Y} 30'13	1.32612 AU

	731 Apr 18 j 08:58	0°♄		morning max el	732 Feb 19 j 08:37	6°♁06'02	27°32'00
superior conj	731 Apr 18 j 23:09	1°♄16'54 -0°03'33		morning set	732 Mar 08 j 14:46	0°♁	
minimum elong	731 Apr 18 j 23:19	1°♄17'49 0°03'29			732 Mar 25 j 07:49	29°♁30'49	
behind sun begin	731 Apr 18 j 18:16	0°♄50'25		max. Earth dist.	732 Mar 25 j 13:43	0°♁	
behind sun end	731 Apr 19 j 04:21	1°♄45'13			732 Mar 30 j 07:54	9°♁41'29	1.33346 AU
asc. node	731 Apr 19 j 07:10	2°♄00'29		superior conj	732 Apr 02 j 05:33	15°♁49'05	-0°30'38
evening rise	731 Apr 25 j 22:06	16°♄20'05		minimum elong	732 Apr 02 j 07:02	15°♁57'03	0°30'18
	731 May 02 j 17:19	0°♄		asc. node	732 Apr 05 j 04:12	22°♁07'39	
evening max el	731 May 20 j 17:36	25°♄56'35 24°14'39			732 Apr 08 j 20:36	0°♄	
	731 May 25 j 18:07	0°♄		evening rise	732 Apr 09 j 09:40	1°♄08'56	
desc. node	731 May 28 j 10:32	1°♄29'22			732 Apr 25 j 17:26	0°♄	
retrograde	731 Jun 03 j 14:13	2°♄55'25		evening max el	732 May 01 j 08:45	6°♄28'49	22°38'55
evening set	731 Jun 08 j 03:44	2°♄09'05		desc. node	732 May 14 j 07:34	12°♄59'49	
	731 Jun 12 j 19:10	30°♄♄		retrograde	732 May 14 j 12:30	12°♄59'55	
min. Earth dist.	731 Jun 14 j 04:43	29°♄10'16 0.56602 AU		evening set	732 May 17 j 16:16	12°♄38'02	
inferior conj	731 Jun 16 j 19:17	27°♄32'13 -4°29'06		min. Earth dist.	732 May 25 j 16:49	9°♄08'15	0.55352 AU
minimum elong	731 Jun 16 j 14:16	27°♄40'08 4°28'23		inferior conj	732 May 26 j 23:19	8°♄24'45	-3°22'19
morning rise	731 Jun 25 j 03:32	23°♄30'16		minimum elong	732 May 26 j 15:48	8°♄35'29	3°20'17
direct	731 Jun 27 j 19:03	23°♄11'34		morning rise	732 Jun 04 j 17:34	4°♄32'00	
morning max el	731 Jul 07 j 09:57	27°♄39'32 19°38'49		direct	732 Jun 07 j 13:46	4°♄13'21	
	731 Jul 09 j 16:12	0°♄		morning max el	732 Jun 18 j 19:46	9°♄26'51	20°55'30
asc. node	731 Jul 16 j 06:21	9°♄19'24		asc. node	732 Jul 02 j 03:26	28°♄18'14	
morning set	731 Jul 24 j 23:44	25°♄41'28			732 Jul 03 j 01:15	0°♄	
	731 Jul 27 j 02:58	0°♄		morning set	732 Jul 08 j 06:50	10°♄23'19	
superior conj	731 Aug 01 j 22:52	11°♄42'30 1°46'38		superior conj	732 Jul 15 j 18:23	25°♄54'53	1°42'55
minimum elong	731 Aug 01 j 22:55	11°♄42'42 1°46'39		minimum elong	732 Jul 15 j 16:59	25°♄47'43	1°42'51
max. Earth dist.	731 Aug 07 j 21:02	23°♄05'56 1.37468 AU			732 Jul 17 j 18:29	0°♄	
evening rise	731 Aug 11 j 16:11	0°♄02'04		max. Earth dist.	732 Jul 20 j 05:53	4°♄56'35	1.35683 AU
	731 Aug 11 j 15:43	0°♄		evening rise	732 Jul 24 j 09:51	12°♄57'29	
desc. node	731 Aug 24 j 09:52	21°♄12'21			732 Aug 03 j 01:46	0°♄	
	731 Aug 30 j 07:23	0°♄		desc. node	732 Aug 10 j 06:53	11°♄21'34	
evening max el	731 Sep 16 j 11:49	21°♄23'31 25°22'00			732 Aug 24 j 06:22	0°♄	
retrograde	731 Sep 28 j 12:15	28°♄18'50		evening max el	732 Aug 28 j 23:39	5°♄00'32	26°25'16
evening set	731 Oct 04 j 09:45	25°♄50'05		retrograde	732 Sep 10 j 18:26	12°♄12'15	
min. Earth dist.	731 Oct 08 j 20:06	20°♄54'12 0.67080 AU		evening set	732 Sep 17 j 05:53	9°♄31'28	
inferior conj	731 Oct 09 j 22:08	19°♄29'51 -0°47'40		min. Earth dist.	732 Sep 21 j 08:39	5°♄12'22	0.66250 AU
minimum elong	731 Oct 09 j 23:21	19°♄25'56 0°47'10		inferior conj	732 Sep 22 j 22:20	3°♄17'42	-1°44'39
asc. node	731 Oct 12 j 05:32	16°♄37'15		minimum elong	732 Sep 23 j 01:03	3°♄09'26	1°43'33
morning rise	731 Oct 15 j 13:07	13°♄31'56			732 Sep 25 j 19:13	30°♄♄	
direct	731 Oct 18 j 23:01	12°♄24'37		asc. node	732 Sep 28 j 02:37	27°♄58'56	
morning max el	731 Oct 26 j 04:35	16°♄30'26 19°29'34		morning rise	732 Sep 28 j 20:39	27°♄30'25	
	731 Nov 05 j 13:33	0°♄		direct	732 Oct 01 j 21:05	26°♄38'49	
greatest brilliancy	731 Nov 08 j 22:42	5°♄02'32 -0.7m			732 Oct 08 j 05:41	0°♄	
morning set	731 Nov 19 j 13:57	21°♄22'19		morning max el	732 Oct 08 j 14:43	0°♄22'20	18°40'38
desc. node	731 Nov 20 j 09:08	22°♄36'39			732 Oct 28 j 21:28	0°♄	
	731 Nov 25 j 03:06	0°♄		morning set	732 Oct 29 j 09:37	0°♄48'22	
max. Earth dist.	731 Dec 02 j 15:01	11°♄46'39 1.44498 AU		desc. node	732 Nov 06 j 06:09	13°♄15'12	
superior conj	731 Dec 06 j 08:29	17°♄42'37 -1°33'30		superior conj	732 Nov 14 j 11:13	26°♄10'19	-0°52'31
minimum elong	731 Dec 06 j 00:11	17°♄09'28 1°32'45		minimum elong	732 Nov 14 j 04:35	25°♄44'18	0°51'41
	731 Dec 13 j 22:33	0°♄		max. Earth dist.	732 Nov 14 j 08:56	26°♄01'23	1.45056 AU
evening rise	731 Dec 20 j 11:27	10°♄50'28			732 Nov 16 j 21:39	0°♄	
	732 Jan 01 j 02:29	0°♄		evening rise	732 Nov 30 j 06:21	21°♄10'16	
asc. node	732 Jan 08 j 04:51	9°♄33'28			732 Dec 05 j 18:48	0°♄	
evening max el	732 Jan 08 j 12:21	9°♄52'49 18°22'52		greatest brilliancy	732 Dec 07 j 23:45	3°♄30'58	-0.8m
retrograde	732 Jan 15 j 00:31	13°♄25'29		evening max el	732 Dec 21 j 22:56	23°♄18'14	18°55'24
evening set	732 Jan 18 j 00:21	12°♄36'46		asc. node	732 Dec 25 j 01:54	25°♄56'23	
inferior conj	732 Jan 23 j 23:21	7°♄09'11 3°43'14		retrograde	732 Dec 28 j 18:46	27°♄10'01	
minimum elong	732 Jan 23 j 22:02	7°♄12'58 3°43'06		evening set	733 Jan 01 j 00:26	26°♄09'38	
min. Earth dist.	732 Jan 26 j 05:46	4°♄34'02 0.64029 AU		inferior conj	733 Jan 06 j 16:42	20°♄24'57	3°24'03
morning rise	732 Jan 29 j 19:07	1°♄04'16		minimum elong	733 Jan 06 j 14:20	20°♄32'18	3°23'38
	732 Jan 31 j 06:04	30°♄♄		min. Earth dist.	733 Jan 08 j 07:47	18°♄23'28	0.65517 AU
direct	732 Feb 05 j 17:05	28°♄15'11		morning rise	733 Jan 12 j 03:55	14°♄14'56	
	732 Feb 11 j 16:16	0°♄		direct	733 Jan 18 j 17:40	11°♄23'41	
desc. node	732 Feb 16 j 08:21	3°♄18'32		morning max el	733 Jan 31 j 18:30	19°♄02'39	26°44'03

desc. node	733 Feb 02 j 05:22	20° ♁ 32'55	direct	734 Jan 02 j 00:17	24° ♁ 59'20	
	733 Feb 10 j 02:24	0° ♁		734 Jan 11 j 19:53	0° ♁	
	733 Mar 01 j 14:51	0° ♁	morning max el	734 Jan 14 j 03:36	2° ♁ 12'34	25°32'41
morning set	733 Mar 08 j 16:34	12° ♁ 53'50	desc. node	734 Jan 20 j 02:23	8° ♁ 53'32	
max. Earth dist.	733 Mar 13 j 00:02	21° ♁ 18'32 1.34524 AU		734 Feb 04 j 05:40	0° ♁	
			morning set	734 Feb 19 j 09:56	25° ♁ 26'55	
superior conj	733 Mar 17 j 06:12	29° ♁ 58'54 -0°57'45		734 Feb 21 j 21:11	0° ♁	
minimum elong	733 Mar 17 j 09:00	0° ♁ 13'29 0°57'14	max. Earth dist.	734 Feb 23 j 04:11	2° ♁ 25'46	1.36152 AU
	733 Mar 17 j 06:24	0° ♁				
asc. node	733 Mar 23 j 01:14	12° ♁ 07'08	superior conj	734 Feb 28 j 22:29	13° ♁ 39'12	-1°23'17
evening rise	733 Mar 24 j 19:08	15° ♁ 45'43	minimum elong	734 Mar 01 j 02:17	13° ♁ 58'11	1°22'44
	733 Apr 01 j 01:04	0° ♁		734 Mar 08 j 23:36	0° ♁	
evening max el	733 Apr 13 j 06:56	17° ♁ 16'58 21°09'12	evening rise	734 Mar 09 j 00:26	0° ♁ 04'17	
retrograde	733 Apr 25 j 02:28	23° ♁ 01'42	asc. node	734 Mar 09 j 22:15	1° ♁ 54'34	
evening set	733 Apr 27 j 08:58	22° ♁ 49'42	evening max el	734 Mar 26 j 16:25	28° ♁ 41'12	19°54'40
desc. node	733 May 01 j 04:37	21° ♁ 40'53		734 Mar 28 j 03:38	0° ♁	
inferior conj	733 May 06 j 17:34	18° ♁ 50'40 -1°35'13	retrograde	734 Apr 05 j 18:34	3° ♁ 32'18	
minimum elong	733 May 06 j 13:05	18° ♁ 56'58 1°33'39	evening set	734 Apr 07 j 20:16	3° ♁ 20'57	
min. Earth dist.	733 May 07 j 05:28	18° ♁ 33'51 0.54958 AU		734 Apr 15 j 14:19	30° ♁	
morning rise	733 May 15 j 17:21	14° ♁ 48'36	inferior conj	734 Apr 16 j 16:23	29° ♁ 20'27	0°23'47
direct	733 May 18 j 23:35	14° ♁ 25'36	minimum elong	734 Apr 16 j 17:26	29° ♁ 18'51	0°23'24
morning max el	733 May 31 j 18:58	20° ♁ 31'52 22°28'57	desc. node	734 Apr 18 j 01:37	28° ♁ 29'33	
	733 Jun 08 j 17:53	0° ♁	min. Earth dist.	734 Apr 18 j 19:31	28° ♁ 02'28	0.55531 AU
asc. node	733 Jun 19 j 00:29	17° ♁ 43'38	morning rise	734 Apr 25 j 12:21	24° ♁ 51'09	
morning set	733 Jun 22 j 17:08	25° ♁ 15'24	direct	734 Apr 29 j 14:49	24° ♁ 13'58	
	733 Jun 24 j 23:06	0° ♁		734 May 12 j 05:43	0° ♁	
			morning max el	734 May 13 j 11:02	1° ♁ 06'56	24°10'13
superior conj	733 Jun 29 j 21:27	10° ♁ 30'12 1°32'55		734 Jun 02 j 04:09	0° ♁	
minimum elong	733 Jun 29 j 19:14	10° ♁ 18'29 1°32'42	asc. node	734 Jun 05 j 21:31	7° ♁ 28'32	
max. Earth dist.	733 Jul 02 j 23:22	16° ♁ 57'20 1.34245 AU	morning set	734 Jun 07 j 04:53	10° ♁ 12'21	
evening rise	733 Jul 07 j 18:34	26° ♁ 37'23				
	733 Jul 09 j 12:29	0° ♁	superior conj	734 Jun 14 j 05:26	25° ♁ 20'04	1°17'54
	733 Jul 27 j 09:39	0° ♁	minimum elong	734 Jun 14 j 02:58	25° ♁ 06'45	1°17'31
desc. node	733 Jul 28 j 03:56	1° ♁ 05'42	max. Earth dist.	734 Jun 16 j 01:58	29° ♁ 19'56	1.33208 AU
evening max el	733 Aug 11 j 11:32	18° ♁ 28'48 27°08'50		734 Jun 16 j 09:28	0° ♁	
retrograde	733 Aug 24 j 19:23	25° ♁ 47'44	evening rise	734 Jun 21 j 14:12	10° ♁ 50'01	
evening set	733 Aug 31 j 17:59	23° ♁ 02'31		734 Jul 01 j 19:30	0° ♁	
min. Earth dist.	733 Sep 04 j 13:52	19° ♁ 20'06 0.65054 AU	desc. node	734 Jul 15 j 00:57	20° ♁ 13'53	
inferior conj	733 Sep 06 j 16:10	16° ♁ 59'07 -2°40'52		734 Jul 23 j 07:00	0° ♁	
minimum elong	733 Sep 06 j 20:15	16° ♁ 47'39 2°39'25	evening max el	734 Jul 24 j 22:12	1° ♁ 36'52	27°25'44
morning rise	733 Sep 12 j 23:18	11° ♁ 25'34	retrograde	734 Aug 07 j 14:19	8° ♁ 55'54	
asc. node	733 Sep 14 j 23:40	10° ♁ 48'37	evening set	734 Aug 14 j 18:54	6° ♁ 17'23	
direct	733 Sep 15 j 16:40	10° ♁ 45'55	min. Earth dist.	734 Aug 18 j 09:52	3° ♁ 07'55	0.63504 AU
morning max el	733 Sep 22 j 05:10	14° ♁ 16'30 18°08'19	inferior conj	734 Aug 21 j 01:01	0° ♁ 28'05	-3°33'22
	733 Oct 03 j 08:46	0° ♁	minimum elong	734 Aug 21 j 05:58	0° ♁ 15'33	3°31'58
morning set	733 Oct 10 j 10:15	11° ♁ 40'29		734 Aug 21 j 12:07	30° ♁	
	733 Oct 21 j 15:13	0° ♁	morning rise	734 Aug 27 j 18:10	25° ♁ 11'22	
desc. node	733 Oct 24 j 03:11	3° ♁ 59'51	direct	734 Aug 30 j 07:00	24° ♁ 40'13	
			asc. node	734 Sep 01 j 20:43	25° ♁ 12'47	
superior conj	733 Oct 24 j 15:54	4° ♁ 50'32 -0°03'33	morning max el	734 Sep 05 j 21:05	28° ♁ 05'58	17°53'26
minimum elong	733 Oct 24 j 15:27	4° ♁ 48'44 0°03'28		734 Sep 07 j 14:45	0° ♁	
behind sun begin	733 Oct 24 j 04:50	4° ♁ 06'25	morning set	734 Sep 22 j 12:28	23° ♁ 46'18	
behind sun end	733 Oct 25 j 02:05	5° ♁ 31'00		734 Sep 26 j 02:38	0° ♁	
max. Earth dist.	733 Oct 28 j 03:42	10° ♁ 22'23 1.44873 AU				
	733 Nov 09 j 17:23	0° ♁	superior conj	734 Oct 04 j 17:23	14° ♁ 33'44	0°41'18
evening rise	733 Nov 10 j 03:02	0° ♁ 37'28	minimum elong	734 Oct 04 j 21:25	14° ♁ 50'25	0°40'46
greatest brilliancy	733 Nov 23 j 02:07	20° ♁ 30'51 -0.7m	max. Earth dist.	734 Oct 10 j 20:25	24° ♁ 31'39	1.43987 AU
	733 Nov 29 j 16:03	0° ♁	desc. node	734 Oct 11 j 00:13	24° ♁ 46'54	
evening max el	733 Dec 05 j 05:36	6° ♁ 46'29 19°44'21		734 Oct 14 j 07:02	0° ♁	
asc. node	733 Dec 11 j 22:56	11° ♁ 03'12	evening rise	734 Oct 20 j 11:01	9° ♁ 36'54	
retrograde	733 Dec 12 j 15:58	11° ♁ 06'01		734 Nov 02 j 23:21	0° ♁	
evening set	733 Dec 16 j 05:01	9° ♁ 52'30	evening max el	734 Nov 18 j 06:59	20° ♁ 15'34	20°47'25
inferior conj	733 Dec 21 j 16:52	3° ♁ 53'32 2°53'40	retrograde	734 Nov 26 j 13:37	25° ♁ 09'23	
minimum elong	733 Dec 21 j 14:08	4° ♁ 02'33 2°52'57	asc. node	734 Nov 28 j 19:57	24° ♁ 40'28	
min. Earth dist.	733 Dec 22 j 17:54	2° ♁ 30'56 0.66614 AU	evening set	734 Nov 30 j 12:03	23° ♁ 40'52	
	733 Dec 24 j 17:56	30° ♁	inferior conj	734 Dec 05 j 21:22	17° ♁ 30'43	2°14'47
morning rise	733 Dec 26 j 23:01	27° ♁ 40'48	minimum elong	734 Dec 05 j 18:49	17° ♁ 39'25	2°13'56

min. Earth dist.	734 Dec 06 j 09:51	16° ♁ 48'01	0.67330 AU	morning rise	735 Nov 25 j 08:33	25° ♁ 02'24	
morning rise	734 Dec 11 j 01:24	11° ♁ 17'21		direct	735 Nov 30 j 04:01	23° ♁ 01'04	
direct	734 Dec 16 j 12:00	8° ♁ 53'52		morning max el	735 Dec 09 j 22:02	28° ♁ 47'31	22°39'58
morning max el	734 Dec 27 j 11:52	15° ♁ 27'23	24°07'59		735 Dec 11 j 01:55	0° ♁	
desc. node	735 Jan 06 j 23:24	28° ♁ 00'48		desc. node	735 Dec 24 j 20:28	17° ♁ 41'40	
	735 Jan 08 j 10:41	0° ♁			736 Jan 02 j 04:57	0° ♁	
	735 Jan 28 j 04:36	0° ♁		morning set	736 Jan 12 j 22:46	16° ♁ 58'02	
morning set	735 Feb 01 j 06:00	6° ♁ 53'10		max. Earth dist.	736 Jan 17 j 20:01	25° ♁ 08'31	1.40283 AU
max. Earth dist.	735 Feb 05 j 00:01	13° ♁ 29'15	1.38143 AU		736 Jan 20 j 15:37	0° ♁	
superior conj	735 Feb 12 j 02:55	26° ♁ 40'20	-1°44'56	superior conj	736 Jan 25 j 15:01	8° ♁ 51'01	-1°59'27
minimum elong	735 Feb 12 j 06:51	26° ♁ 59'08	1°44'33	minimum elong	736 Jan 25 j 17:29	9° ♁ 02'11	1°59'21
	735 Feb 13 j 20:29	0° ♁		evening rise	736 Feb 04 j 12:16	27° ♁ 18'11	
evening rise	735 Feb 20 j 23:08	13° ♁ 57'30			736 Feb 05 j 22:30	0° ♁	
asc. node	735 Feb 24 j 19:17	21° ♁ 24'33		asc. node	736 Feb 11 j 16:19	10° ♁ 30'53	
	735 Mar 01 j 13:48	0° ♁		evening max el	736 Feb 20 j 17:42	23° ♁ 19'11	18°23'49
evening max el	735 Mar 09 j 12:52	10° ♁ 44'07	18°59'15	retrograde	736 Feb 28 j 02:23	26° ♁ 57'22	
retrograde	735 Mar 18 j 00:52	14° ♁ 50'38		evening set	736 Mar 01 j 13:35	26° ♁ 34'00	
evening set	735 Mar 20 j 06:35	14° ♁ 34'45		inferior conj	736 Mar 08 j 20:19	21° ♁ 58'33	3°07'46
inferior conj	735 Mar 28 j 07:47	10° ♁ 19'38	2°02'49	minimum elong	736 Mar 08 j 23:59	21° ♁ 50'59	3°07'03
minimum elong	735 Mar 28 j 11:50	10° ♁ 12'29	2°01'38	min. Earth dist.	736 Mar 12 j 06:49	19° ♁ 10'05	0.58877 AU
min. Earth dist.	735 Mar 31 j 11:21	8° ♁ 07'39	0.56938 AU	morning rise	736 Mar 16 j 07:50	16° ♁ 27'49	
desc. node	735 Apr 04 j 22:37	5° ♁ 33'35		desc. node	736 Mar 21 j 19:39	14° ♁ 48'29	
morning rise	735 Apr 05 j 14:04	5° ♁ 17'08		direct	736 Mar 22 j 12:17	14° ♁ 47'13	
direct	735 Apr 10 j 19:00	4° ♁ 12'47		morning max el	736 Apr 05 j 20:36	22° ♁ 28'43	26°59'49
morning max el	735 Apr 25 j 01:44	11° ♁ 36'41	25°45'37		736 Apr 12 j 12:24	0° ♁	
	735 May 09 j 05:49	0° ♁			736 May 01 j 03:28	0° ♁	
morning set	735 May 22 j 16:31	25° ♁ 09'10		morning set	736 May 06 j 02:19	9° ♁ 59'16	
asc. node	735 May 23 j 18:34	27° ♁ 27'17		asc. node	736 May 09 j 15:36	17° ♁ 34'04	
	735 May 24 j 23:02	0° ♁		superior conj	736 May 13 j 03:59	25° ♁ 15'42	0°36'28
superior conj	735 May 29 j 16:13	10° ♁ 17'38	0°58'48	minimum elong	736 May 13 j 02:27	25° ♁ 07'14	0°36'09
minimum elong	735 May 29 j 14:01	10° ♁ 05'31	0°58'24	max. Earth dist.	736 May 12 j 23:56	24° ♁ 53'24	1.32286 AU
max. Earth dist.	735 May 30 j 11:22	12° ♁ 02'24	1.32561 AU		736 May 15 j 07:45	0° ♁	
evening rise	735 Jun 05 j 17:27	25° ♁ 25'17		evening rise	736 May 20 j 01:38	10° ♁ 13'24	
	735 Jun 07 j 23:19	0° ♁			736 May 30 j 06:36	0° ♁	
	735 Jun 25 j 09:40	0° ♁		desc. node	736 Jun 17 j 18:59	25° ♁ 36'09	
desc. node	735 Jul 01 j 21:58	8° ♁ 31'23		evening max el	736 Jun 18 j 06:07	26° ♁ 02'59	26°22'55
evening max el	735 Jul 07 j 05:18	14° ♁ 12'14	27°10'51		736 Jun 23 j 01:49	0° ♁	
retrograde	735 Jul 21 j 02:19	21° ♁ 28'08		retrograde	736 Jul 02 j 06:02	3° ♁ 15'49	
evening set	735 Jul 28 j 04:42	19° ♁ 09'37		evening set	736 Jul 08 j 18:41	1° ♁ 29'41	
min. Earth dist.	735 Jul 31 j 19:30	16° ♁ 24'02	0.61649 AU		736 Jul 11 j 05:37	30° ♁	
inferior conj	735 Aug 03 j 21:52	13° ♁ 37'34	-4°17'23	min. Earth dist.	736 Jul 12 j 19:06	28° ♁ 52'55	0.59607 AU
minimum elong	735 Aug 04 j 02:28	13° ♁ 27'12	4°16'32	inferior conj	736 Jul 16 j 03:02	26° ♁ 17'13	-4°45'28
morning rise	735 Aug 11 j 01:47	8° ♁ 40'56		minimum elong	736 Jul 16 j 05:21	26° ♁ 12'40	4°45'18
direct	735 Aug 13 j 12:48	8° ♁ 15'24		morning rise	736 Jul 23 j 18:04	21° ♁ 43'11	
asc. node	735 Aug 19 j 17:45	11° ♁ 03'00		direct	736 Jul 26 j 05:36	21° ♁ 21'19	
morning max el	735 Aug 20 j 11:34	11° ♁ 44'26	17°56'59	morning max el	736 Aug 02 j 21:35	25° ♁ 03'11	18°20'10
	735 Sep 01 j 16:10	0° ♁		asc. node	736 Aug 05 j 14:49	28° ♁ 03'40	
morning set	735 Sep 05 j 10:08	6° ♁ 48'18			736 Aug 07 j 02:01	0° ♁	
				morning set	736 Aug 18 j 21:45	20° ♁ 30'22	
superior conj	735 Sep 15 j 22:14	25° ♁ 37'56	1°14'46		736 Aug 23 j 21:32	0° ♁	
minimum elong	735 Sep 16 j 02:57	25° ♁ 58'26	1°14'14	superior conj	736 Aug 28 j 03:29	7° ♁ 54'18	1°35'36
	735 Sep 18 j 11:07	0° ♁		minimum elong	736 Aug 28 j 06:40	8° ♁ 08'52	1°35'22
max. Earth dist.	735 Sep 23 j 09:02	8° ♁ 14'16	1.42512 AU	max. Earth dist.	736 Sep 04 j 16:17	21° ♁ 16'09	1.40631 AU
desc. node	735 Sep 27 j 21:16	15° ♁ 33'19		evening rise	736 Sep 09 j 07:14	29° ♁ 02'23	
evening rise	735 Sep 29 j 23:32	18° ♁ 52'55			736 Sep 09 j 21:15	0° ♁	
	735 Oct 07 j 04:13	0° ♁		desc. node	736 Sep 13 j 18:19	6° ♁ 15'11	
	735 Oct 28 j 16:55	0° ♁			736 Sep 29 j 17:21	0° ♁	
evening max el	735 Nov 01 j 02:44	3° ♁ 45'48	22°01'04	evening max el	736 Oct 13 j 17:40	17° ♁ 17'42	23°20'34
retrograde	735 Nov 10 j 09:57	9° ♁ 17'39		retrograde	736 Oct 24 j 03:37	23° ♁ 27'31	
evening set	735 Nov 14 j 19:46	7° ♁ 32'23		evening set	736 Oct 29 j 02:31	21° ♁ 24'33	
asc. node	735 Nov 15 j 16:59	6° ♁ 45'27		asc. node	736 Nov 01 j 14:01	17° ♁ 35'25	
inferior conj	735 Nov 20 j 04:08	1° ♁ 14'24	1°29'21	inferior conj	736 Nov 03 j 11:22	15° ♁ 02'23	0°38'51
minimum elong	735 Nov 20 j 02:14	1° ♁ 21'00	1°28'36	minimum elong	736 Nov 03 j 10:28	15° ♁ 05'29	0°38'27
min. Earth dist.	735 Nov 20 j 05:20	1° ♁ 10'15	0.67686 AU	min. Earth dist.	736 Nov 03 j 01:59	15° ♁ 34'35	0.67700 AU
	735 Nov 21 j 01:43	30° ♁					

morning rise	736 Nov 08 j 18:21	8°♄53'55		inferior conj	737 Oct 18 j 17:18	28°♄52'22	-0°15'23
direct	736 Nov 12 j 23:23	7°♄15'21		minimum elong	737 Oct 18 j 17:41	28°♄51'06	0°15'13
morning max el	736 Nov 21 j 13:42	12°♄16'33	21°17'01	transit middle	737 Oct 18 j 17:41	28°♄51'06	0°15'13
	736 Dec 05 j 09:48	0°♄		transit begin	737 Oct 18 j 16:43	28°♄54'19	
desc. node	736 Dec 10 j 17:32	7°♄46'38		transit end	737 Oct 18 j 18:38	28°♄47'54	
morning set	736 Dec 22 j 11:09	25°♄43'50		asc. node	737 Oct 19 j 11:06	27°♄53'25	
	736 Dec 25 j 03:47	0°♄		morning rise	737 Oct 24 j 04:49	22°♄49'47	
max. Earth dist.	736 Dec 29 j 22:12	7°♄42'52	1.42273 AU	direct	737 Oct 27 j 21:02	21°♄32'06	
				morning max el	737 Nov 04 j 12:49	25°♄55'40	20°04'47
superior conj	737 Jan 06 j 05:28	19°♄58'27	-2°02'34		737 Nov 08 j 03:10	0°♄	
minimum elong	737 Jan 06 j 04:10	19°♄52'55	2°02'33	desc. node	737 Nov 27 j 14:35	28°♄08'20	
	737 Jan 11 j 23:03	0°♄			737 Nov 28 j 19:41	0°♄	
evening rise	737 Jan 17 j 12:10	9°♄58'21		morning set	737 Dec 01 j 07:38	3°♄50'58	
asc. node	737 Jan 28 j 13:21	29°♄06'04		max. Earth dist.	737 Dec 12 j 07:30	21°♄06'35	1.43848 AU
	737 Jan 29 j 03:40	0°♄					
evening max el	737 Feb 03 j 03:52	6°♄18'10	18°08'19	superior conj	737 Dec 17 j 17:39	29°♄52'25	-1°49'33
retrograde	737 Feb 09 j 20:54	9°♄43'51		minimum elong	737 Dec 17 j 11:16	29°♄26'23	1°49'08
evening set	737 Feb 12 j 13:00	9°♄11'32			737 Dec 17 j 19:30	0°♄	
inferior conj	737 Feb 19 j 04:37	4°♄15'02	3°40'17	evening rise	737 Dec 30 j 18:25	21°♄48'21	
minimum elong	737 Feb 19 j 06:17	4°♄11'05	3°40'08		738 Jan 04 j 12:36	0°♄	
min. Earth dist.	737 Feb 22 j 09:01	1°♄14'12	0.60995 AU	asc. node	738 Jan 15 j 10:25	16°♄59'47	
	737 Feb 23 j 19:12	30°♄		evening max el	738 Jan 17 j 16:18	19°♄32'12	18°12'12
morning rise	737 Feb 25 j 21:51	28°♄25'18		retrograde	738 Jan 24 j 03:49	22°♄59'02	
direct	737 Mar 04 j 16:56	26°♄09'04		evening set	738 Jan 27 j 00:37	22°♄16'42	
desc. node	737 Mar 08 j 16:41	26°♄52'21		inferior conj	738 Feb 02 j 04:46	17°♄00'11	3°47'37
	737 Mar 14 j 07:25	0°♄		minimum elong	738 Feb 02 j 04:22	17°♄01'16	3°47'37
morning max el	737 Mar 18 j 21:57	4°♄00'20	27°41'15	min. Earth dist.	738 Feb 04 j 20:07	14°♄10'15	0.63002 AU
	737 Apr 07 j 03:39	0°♄		morning rise	738 Feb 08 j 07:11	10°♄59'17	
morning set	737 Apr 20 j 08:29	24°♄36'22		direct	738 Feb 15 j 06:43	8°♄17'39	
	737 Apr 22 j 22:24	0°♄		desc. node	738 Feb 23 j 13:44	11°♄24'20	
max. Earth dist.	737 Apr 26 j 11:43	7°♄39'19	1.32384 AU	morning max el	738 Mar 01 j 04:30	16°♄11'43	27°45'34
asc. node	737 Apr 26 j 12:41	7°♄44'34			738 Mar 12 j 13:52	0°♄	
					738 Mar 30 j 19:33	0°♄	
superior conj	737 Apr 27 j 15:04	10°♄08'42	0°11'38	morning set	738 Apr 04 j 08:44	8°♄52'24	
minimum elong	737 Apr 27 j 14:32	10°♄05'46	0°11'32	max. Earth dist.	738 Apr 09 j 18:38	20°♄05'41	1.32872 AU
behind sun begin	737 Apr 27 j 11:02	9°♄46'38					
behind sun end	737 Apr 27 j 18:02	10°♄24'55		superior conj	738 Apr 11 j 23:43	24°♄50'11	-0°14'56
evening rise	737 May 04 j 12:37	25°♄07'05		minimum elong	738 Apr 12 j 00:26	24°♄54'03	0°14'46
	737 May 06 j 20:47	0°♄		behind sun begin	738 Apr 11 j 22:29	24°♄43'34	
	737 May 24 j 15:43	0°♄		behind sun end	738 Apr 12 j 02:22	25°♄04'32	
evening max el	737 May 30 j 23:53	7°♄08'21	25°06'44	asc. node	738 Apr 13 j 09:44	27°♄54'07	
desc. node	737 Jun 04 j 15:59	10°♄58'52			738 Apr 14 j 08:58	0°♄	
retrograde	737 Jun 13 j 23:57	14°♄15'53		evening rise	738 Apr 19 j 00:28	9°♄59'14	
evening set	737 Jun 19 j 09:30	13°♄08'43			738 Apr 29 j 09:09	0°♄	
min. Earth dist.	737 Jun 24 j 11:29	10°♄22'18	0.57607 AU	evening max el	738 May 12 j 14:06	17°♄44'44	23°33'57
inferior conj	737 Jun 27 j 13:13	8°♄17'42	-4°46'17	desc. node	738 May 22 j 12:59	24°♄03'36	
minimum elong	737 Jun 27 j 11:04	8°♄21'22	4°46'09	retrograde	738 May 26 j 05:54	24°♄34'50	
morning rise	737 Jul 05 j 15:20	4°♄05'50		evening set	738 May 30 j 04:00	24°♄01'00	
direct	737 Jul 08 j 04:58	3°♄46'25		min. Earth dist.	738 Jun 06 j 00:35	20°♄50'11	0.55979 AU
morning max el	737 Jul 17 j 00:06	7°♄53'24	19°04'03	inferior conj	738 Jun 08 j 03:20	19°♄34'13	-4°06'36
asc. node	737 Jul 23 j 11:54	16°♄00'06		minimum elong	738 Jun 07 j 20:40	19°♄44'14	4°05'15
	737 Jul 31 j 09:39	0°♄		morning rise	738 Jun 16 j 16:05	15°♄37'52	
morning set	737 Aug 02 j 19:12	4°♄41'43		direct	738 Jun 19 j 08:59	15°♄19'40	
				morning max el	738 Jun 29 j 16:28	20°♄06'01	20°09'04
superior conj	737 Aug 11 j 03:30	21°♄07'06	1°45'18		738 Jul 07 j 13:34	0°♄	
minimum elong	737 Aug 11 j 04:37	21°♄12'28	1°45'16	asc. node	738 Jul 10 j 08:59	4°♄39'29	
	737 Aug 15 j 20:34	0°♄		morning set	738 Jul 17 j 23:29	19°♄14'36	
max. Earth dist.	737 Aug 17 j 19:32	3°♄34'10	1.38597 AU		738 Jul 23 j 05:37	0°♄	
evening rise	737 Aug 21 j 15:30	10°♄21'03					
desc. node	737 Aug 31 j 15:21	26°♄48'29		superior conj	738 Jul 25 j 17:07	5°♄01'39	1°45'56
	737 Sep 02 j 16:51	0°♄		minimum elong	738 Jul 25 j 16:29	4°♄58'25	1°45'55
	737 Sep 25 j 08:56	0°♄		max. Earth dist.	738 Jul 31 j 00:27	15°♄26'39	1.36668 AU
evening max el	737 Sep 26 j 05:49	0°♄52'34	24°39'40	evening rise	738 Aug 03 j 22:23	22°♄45'21	
retrograde	737 Oct 07 j 17:30	7°♄34'49			738 Aug 07 j 24:00	0°♄	
evening set	737 Oct 13 j 06:37	5°♄14'43		desc. node	738 Aug 18 j 12:21	17°♄08'32	
	737 Oct 17 j 20:59	30°♄			738 Aug 27 j 10:51	0°♄	
min. Earth dist.	737 Oct 17 j 21:26	29°♄58'30	0.67392 AU	evening max el	738 Sep 08 j 17:30	14°♄30'55	25°50'58

retrograde	738 Sep 21 j 02:47	21°♄35'12		evening max el	739 Aug 22 j 05:38	28°♄06'25	26°46'45
evening set	738 Sep 27 j 06:15	19°♄00'45			739 Aug 24 j 07:21	0°♄	
min. Earth dist.	738 Oct 01 j 13:18	14°♄20'10	0.66760 AU	retrograde	739 Sep 04 j 06:42	5°♄21'46	
inferior conj	738 Oct 02 j 20:09	12°♄42'30	-1°11'49	evening set	739 Sep 10 j 23:14	2°♄38'20	
minimum elong	738 Oct 02 j 22:00	12°♄36'40	1°11'02		739 Sep 13 j 16:49	30°♄	
asc. node	738 Oct 06 j 08:10	8°♄37'53		min. Earth dist.	739 Sep 14 j 23:05	28°♄34'43	0.65785 AU
morning rise	738 Oct 08 j 14:02	6°♄48'34		inferior conj	739 Sep 16 j 17:55	26°♄28'32	-2°08'45
direct	738 Oct 11 j 19:33	5°♄48'28		minimum elong	739 Sep 16 j 21:14	26°♄18'43	2°07'28
morning max el	738 Oct 18 j 19:20	9°♄44'03	19°06'46	morning rise	739 Sep 22 j 19:47	20°♄46'24	
	738 Nov 02 j 11:44	0°♄		asc. node	739 Sep 23 j 05:12	20°♄34'44	
morning set	738 Nov 10 j 13:09	12°♄32'45		direct	739 Sep 25 j 16:57	20°♄00'13	
desc. node	738 Nov 14 j 11:38	18°♄42'10		morning max el	739 Oct 02 j 07:31	23°♄37'13	18°24'45
	738 Nov 21 j 16:42	0°♄			739 Oct 07 j 11:39	0°♄	
max. Earth dist.	738 Nov 24 j 22:49	5°♄07'09	1.44819 AU	morning set	739 Oct 21 j 21:02	22°♄35'39	
					739 Oct 26 j 11:19	0°♄	
superior conj	738 Nov 27 j 05:12	8°♄41'50	-1°17'53	desc. node	739 Nov 01 j 08:39	9°♄23'40	
minimum elong	738 Nov 26 j 20:46	8°♄08'30	1°16'58				
	738 Dec 10 j 11:25	0°♄		superior conj	739 Nov 06 j 05:51	17°♄06'33	-0°31'56
evening rise	738 Dec 12 j 02:54	2°♄41'33		minimum elong	739 Nov 06 j 01:40	16°♄50'06	0°31'22
	738 Dec 29 j 15:13	0°♄		max. Earth dist.	739 Nov 07 j 17:32	19°♄26'54	1.45072 AU
evening max el	739 Jan 01 j 04:19	2°♄55'20	18°34'38		739 Nov 14 j 10:54	0°♄	
asc. node	739 Jan 02 j 07:27	4°♄00'05		evening rise	739 Nov 22 j 11:41	12°♄36'50	
retrograde	739 Jan 07 j 18:50	6°♄34'46		greatest brilliancy	739 Dec 02 j 18:12	28°♄43'17	-0.8m
evening set	739 Jan 10 j 20:59	5°♄41'19			739 Dec 03 j 14:05	0°♄	
inferior conj	739 Jan 16 j 16:50	0°♄06'29	3°36'38	evening max el	739 Dec 15 j 13:29	16°♄22'27	19°14'26
minimum elong	739 Jan 16 j 14:59	0°♄12'00	3°36'25	asc. node	739 Dec 20 j 04:28	19°♄52'30	
	739 Jan 16 j 19:01	30°♄		retrograde	739 Dec 22 j 14:33	20°♄24'40	
min. Earth dist.	739 Jan 18 j 16:46	27°♄44'21	0.64712 AU	evening set	739 Dec 25 j 23:15	19°♄18'45	
morning rise	739 Jan 22 j 08:31	23°♄59'08		inferior conj	739 Dec 31 j 13:22	13°♄27'46	3°12'20
direct	739 Jan 29 j 03:50	21°♄07'05		minimum elong	739 Dec 31 j 10:47	13°♄36'03	3°11'47
desc. node	739 Feb 10 j 10:47	27°♄48'51		min. Earth dist.	740 Jan 01 j 22:17	11°♄42'37	0.66033 AU
morning max el	739 Feb 11 j 13:43	28°♄54'35	27°14'56	morning rise	740 Jan 05 j 22:04	7°♄16'39	
	739 Feb 12 j 15:15	0°♄		direct	740 Jan 12 j 07:02	4°♄28'18	
	739 Mar 06 j 09:44	0°♄		morning max el	740 Jan 24 j 23:13	11°♄57'21	26°16'02
morning set	739 Mar 19 j 00:12	22°♄38'05		desc. node	740 Jan 28 j 07:50	15°♄34'02	
	739 Mar 22 j 17:03	0°♄			740 Feb 08 j 10:53	0°♄	
max. Earth dist.	739 Mar 23 j 16:53	2°♄01'39	1.33791 AU		740 Feb 27 j 00:34	0°♄	
				morning set	740 Mar 01 j 03:03	5°♄41'55	
superior conj	739 Mar 27 j 03:58	9°♄14'02	-0°42'12	max. Earth dist.	740 Mar 05 j 03:52	13°♄24'47	1.35162 AU
minimum elong	739 Mar 27 j 06:02	9°♄24'57	0°41'48				
asc. node	739 Mar 31 j 06:46	17°♄58'43		superior conj	740 Mar 10 j 01:28	23°♄13'03	-1°08'53
evening rise	739 Apr 03 j 11:20	24°♄43'43		minimum elong	740 Mar 10 j 04:46	23°♄29'53	1°08'20
	739 Apr 06 j 00:40	0°♄			740 Mar 13 j 08:25	0°♄	
evening max el	739 Apr 24 j 07:39	28°♄21'19	21°59'21	asc. node	740 Mar 17 j 03:47	7°♄54'13	
	739 Apr 26 j 03:27	0°♄		evening rise	740 Mar 17 j 19:20	9°♄14'19	
retrograde	739 May 06 j 23:28	4°♄33'56			740 Mar 29 j 00:01	0°♄	
desc. node	739 May 09 j 10:01	4°♄20'40		evening max el	740 Apr 05 j 10:33	9°♄24'37	20°35'21
evening set	739 May 09 j 15:56	4°♄17'54		retrograde	740 Apr 16 j 12:28	14°♄46'01	
min. Earth dist.	739 May 18 j 12:57	0°♄30'46	0.55071 AU	evening set	740 Apr 18 j 15:32	14°♄34'58	
inferior conj	739 May 19 j 01:43	0°♄12'52	-2°40'33	desc. node	740 Apr 25 j 07:02	12°♄03'18	
minimum elong	739 May 18 j 18:50	0°♄22'31	2°38'25	inferior conj	740 Apr 27 j 20:10	10°♄37'19	-0°44'09
	739 May 19 j 10:53	30°♄		minimum elong	740 Apr 27 j 18:05	10°♄40'20	0°43'24
morning rise	739 May 27 j 23:06	26°♄18'15		min. Earth dist.	740 Apr 29 j 01:56	9°♄54'27	0.55091 AU
direct	739 May 30 j 22:40	25°♄58'26		morning rise	740 May 06 j 19:43	6°♄25'48	
	739 Jun 10 j 01:26	0°♄		direct	740 May 10 j 09:36	5°♄58'10	
morning max el	739 Jun 11 j 21:28	1°♄34'44	21°33'32	morning max el	740 May 23 j 16:55	12°♄25'03	23°11'41
asc. node	739 Jun 27 j 06:01	23°♄50'49			740 Jun 05 j 22:30	0°♄	
	739 Jun 30 j 09:02	0°♄		asc. node	740 Jun 13 j 03:03	13°♄26'02	
morning set	739 Jul 02 j 08:11	4°♄01'41		morning set	740 Jun 15 j 19:21	18°♄57'29	
					740 Jun 20 j 23:26	0°♄	
superior conj	739 Jul 09 j 16:11	19°♄25'02	1°39'22				
minimum elong	739 Jul 09 j 14:22	19°♄15'34	1°39'14	superior conj	740 Jun 22 j 21:40	4°♄08'05	1°27'06
max. Earth dist.	739 Jul 13 j 12:48	27°♄20'06	1.35027 AU	minimum elong	740 Jun 22 j 19:17	3°♄55'20	1°26'48
	739 Jul 14 j 20:47	0°♄		max. Earth dist.	740 Jun 25 j 10:42	9°♄32'01	1.33764 AU
evening rise	739 Jul 17 j 23:03	6°♄01'51		evening rise	740 Jun 30 j 12:55	19°♄57'49	
	739 Jul 31 j 17:03	0°♄			740 Jul 05 j 18:42	0°♄	
desc. node	739 Aug 05 j 09:22	7°♄08'19		desc. node	740 Jul 22 j 06:22	26°♄38'59	

	740 Jul 24 j 17:44	0°♍		desc. node	741 Jul 09 j 03:24	15°♏27'56	
evening max el	740 Aug 03 j 17:24	11°♍28'25	27°19'31	evening max el	741 Jul 17 j 02:43	24°♏23'37	27°23'16
retrograde	740 Aug 17 j 04:53	18°♍47'02			741 Jul 24 j 14:45	0°♍	
evening set	740 Aug 24 j 06:58	16°♍03'17		retrograde	741 Jul 30 j 20:58	1°♍41'35	
min. Earth dist.	740 Aug 28 j 00:30	12°♍35'39	0.64448 AU		741 Aug 05 j 18:17	30°♏	
inferior conj	740 Aug 30 j 08:16	10°♍05'44	-3°03'48	evening set	741 Aug 07 j 02:01	29°♏09'32	
minimum elong	740 Aug 30 j 12:49	9°♍53'30	3°02'18	min. Earth dist.	741 Aug 10 j 15:57	26°♏12'03	0.62756 AU
morning rise	740 Sep 05 j 19:32	4°♍38'54		inferior conj	741 Aug 13 j 12:25	23°♏27'24	-3°53'24
direct	740 Sep 08 j 10:47	4°♍03'07		minimum elong	741 Aug 13 j 17:24	23°♏15'21	3°52'11
asc. node	740 Sep 09 j 02:15	4°♍05'17		morning rise	741 Aug 20 j 10:07	18°♏19'10	
morning max el	740 Sep 14 j 22:55	7°♍30'15	17°59'46	direct	741 Aug 22 j 21:54	17°♏50'43	
	740 Sep 30 j 00:12	0°♏		asc. node	741 Aug 26 j 23:18	19°♏07'56	
morning set	740 Oct 02 j 09:15	4°♏01'36		morning max el	741 Aug 29 j 14:40	21°♏16'31	17°52'39
					741 Sep 05 j 05:24	0°♍	
superior conj	740 Oct 15 j 17:37	26°♏08'40	0°16'38	morning set	741 Sep 14 j 20:29	16°♍33'34	
minimum elong	740 Oct 15 j 19:33	26°♏16'27	0°16'22		741 Sep 22 j 12:03	0°♏	
desc. node	740 Oct 18 j 05:40	0°♍09'44					
	740 Oct 18 j 03:14	0°♍		superior conj	741 Sep 26 j 06:48	6°♏27'05	0°57'03
max. Earth dist.	740 Oct 20 j 12:17	3°♍47'02	1.44584 AU	minimum elong	741 Sep 26 j 11:31	6°♏47'01	0°56'28
evening rise	740 Nov 01 j 01:14	21°♍48'04		max. Earth dist.	741 Oct 03 j 03:37	17°♏47'35	1.43421 AU
	740 Nov 06 j 09:30	0°♏		desc. node	741 Oct 05 j 02:43	20°♏57'10	
greatest brilliancy	740 Nov 15 j 05:12	13°♏16'53	-0.6m		741 Oct 10 j 20:19	0°♍	
evening max el	740 Nov 27 j 17:59	29°♏50'55	20°09'40	evening rise	741 Oct 11 j 08:57	0°♍49'08	
	740 Nov 27 j 21:32	0°♏			741 Oct 31 j 00:53	0°♏	
retrograde	740 Dec 05 j 12:12	4°♏24'14		evening max el	741 Nov 10 j 16:50	13°♏20'13	21°17'39
asc. node	740 Dec 06 j 01:29	4°♏22'30		retrograde	741 Nov 19 j 09:39	18°♏30'29	
evening set	740 Dec 09 j 05:05	3°♏04'19		asc. node	741 Nov 22 j 22:31	17°♏20'32	
	740 Dec 12 j 08:00	30°♏		evening set	741 Nov 23 j 12:38	16°♏54'57	
inferior conj	740 Dec 14 j 15:37	27°♏00'01	2°38'05	inferior conj	741 Nov 28 j 21:21	10°♏40'45	1°56'15
minimum elong	740 Dec 14 j 12:55	27°♏09'08	2°37'17	minimum elong	741 Nov 28 j 19:01	10°♏48'46	1°55'23
min. Earth dist.	740 Dec 15 j 11:02	25°♏54'47	0.66962 AU	min. Earth dist.	741 Nov 29 j 04:51	10°♏14'51	0.67518 AU
morning rise	740 Dec 19 j 20:33	20°♏46'55		morning rise	741 Dec 04 j 01:14	4°♏27'36	
direct	740 Dec 25 j 15:40	18°♏12'41		direct	741 Dec 09 j 05:15	2°♏13'27	
morning max el	741 Jan 06 j 07:53	25°♏10'02	24°57'48	morning max el	741 Dec 19 j 16:45	8°♏27'55	23°30'27
	741 Jan 10 j 17:27	0°♏		desc. node	742 Jan 01 j 01:55	23°♏39'30	
desc. node	741 Jan 14 j 04:52	4°♏16'18			742 Jan 05 j 13:39	0°♏	
	741 Jan 31 j 22:59	0°♏		morning set	742 Jan 23 j 21:13	28°♏41'40	
morning set	741 Feb 11 j 12:06	17°♏48'20			742 Jan 24 j 15:41	0°♏	
max. Earth dist.	741 Feb 15 j 04:09	24°♏27'56	1.36960 AU	max. Earth dist.	742 Jan 27 j 23:02	5°♏42'32	1.39046 AU
	741 Feb 18 j 02:54	0°♏					
superior conj	741 Feb 21 j 13:09	6°♏37'41	-1°33'07	superior conj	742 Feb 04 j 11:13	19°♏18'29	-1°52'12
minimum elong	741 Feb 21 j 17:09	6°♏57'19	1°32'37	minimum elong	742 Feb 04 j 14:46	19°♏35'08	1°51'56
evening rise	741 Mar 01 j 22:10	23°♏23'09			742 Feb 10 j 01:54	0°♏	
asc. node	741 Mar 04 j 00:49	27°♏35'03		evening rise	742 Feb 13 j 17:13	7°♏03'28	
	741 Mar 05 j 06:28	0°♏		asc. node	742 Feb 18 j 21:51	16°♏55'52	
evening max el	741 Mar 19 j 00:47	21°♏05'08	19°28'41		742 Feb 27 j 01:28	0°♏	
retrograde	741 Mar 28 j 09:52	25°♏36'08		evening max el	742 Mar 02 j 01:07	3°♏22'16	18°41'45
evening set	741 Mar 30 j 12:41	25°♏23'20		retrograde	742 Mar 10 j 00:17	7°♏14'58	
inferior conj	741 Apr 08 j 00:59	21°♏17'20	1°09'30	evening set	742 Mar 12 j 08:10	6°♏56'19	
minimum elong	741 Apr 08 j 03:46	21°♏12'49	1°08'33	inferior conj	742 Mar 20 j 01:14	2°♏33'03	2°34'40
min. Earth dist.	741 Apr 10 j 16:25	19°♏35'14	0.56037 AU	minimum elong	742 Mar 20 j 05:27	2°♏25'06	2°33'35
desc. node	741 Apr 12 j 04:03	18°♏41'13			742 Mar 23 j 11:12	30°♏	
morning rise	741 Apr 16 j 16:10	16°♏33'59		min. Earth dist.	742 Mar 23 j 09:45	0°♏02'36	0.57712 AU
direct	741 Apr 21 j 05:20	15°♏47'10		morning rise	742 Mar 27 j 23:43	27°♏17'02	
morning max el	741 May 05 j 07:47	22°♏54'52	24°52'28	desc. node	742 Mar 30 j 01:04	26°♏30'09	
	741 May 11 j 15:19	0°♏		direct	742 Apr 02 j 15:18	25°♏57'50	
	741 May 29 j 10:02	0°♏			742 Apr 12 j 21:36	0°♏	
morning set	741 May 31 j 07:17	3°♏55'29		morning max el	742 Apr 16 j 23:55	3°♏31'28	26°20'36
asc. node	741 May 31 j 00:05	3°♏17'41			742 May 06 j 01:46	0°♏	
superior conj	741 Jun 07 j 07:06	19°♏02'15	1°10'15	morning set	742 May 15 j 18:21	18°♏50'03	
minimum elong	741 Jun 07 j 04:41	18°♏49'08	1°09'51	asc. node	742 May 17 j 21:09	23°♏20'18	
max. Earth dist.	741 Jun 08 j 16:40	22°♏04'33	1.32889 AU		742 May 20 j 22:40	0°♏	
	741 Jun 12 j 09:45	0°♏		superior conj	742 May 22 j 18:32	4°♏00'45	0°49'41
evening rise	741 Jun 14 j 12:09	4°♏21'09		minimum elong	742 May 22 j 16:33	3°♏49'55	0°49'19
	741 Jun 28 j 11:26	0°♏		max. Earth dist.	742 May 23 j 03:40	4°♏50'57	1.32394 AU
				evening rise	742 May 29 j 17:46	19°♏02'31	

	742 Jun 04 j 04:53	0°☿			743 May 28 j 02:20	0°☿	
	742 Jun 23 j 04:36	0°♌		evening max el	743 Jun 11 j 05:08	18°☿12'19	25°53'38
desc. node	742 Jun 26 j 00:24	3°♌17'38		desc. node	743 Jun 12 j 21:24	19°☿43'47	
evening max el	742 Jun 29 j 07:11	6°♌40'18	26°54'19	retrograde	743 Jun 25 j 06:04	25°☿23'33	
retrograde	742 Jul 13 j 05:58	13°♌55'49		evening set	743 Jul 01 j 08:28	23°☿54'10	
evening set	742 Jul 20 j 04:01	11°♌49'34		min. Earth dist.	743 Jul 05 j 17:41	21°☿15'10	0.58728 AU
min. Earth dist.	742 Jul 23 j 21:13	9°♌09'53	0.60790 AU	inferior conj	743 Jul 09 j 00:35	18°☿50'21	-4°50'02
inferior conj	742 Jul 27 j 03:02	6°♌25'16	-4°31'52	minimum elong	743 Jul 09 j 01:14	18°☿49'10	4°50'01
minimum elong	742 Jul 27 j 06:57	6°♌16'56	4°31'19	morning rise	743 Jul 16 j 20:19	14°☿25'46	
morning rise	742 Aug 03 j 11:43	1°♌38'18		direct	743 Jul 19 j 08:28	14°☿05'06	
direct	742 Aug 05 j 22:32	1°♌14'41		morning max el	743 Jul 27 j 10:56	17°☿56'31	18°36'10
morning max el	742 Aug 13 j 03:43	4°♌48'03	18°04'21	asc. node	743 Jul 31 j 17:27	22°☿56'45	
asc. node	742 Aug 13 j 20:22	5°♌30'05			743 Aug 05 j 06:01	0°♌	
morning set	742 Aug 29 j 00:40	29°♌54'02		morning set	743 Aug 12 j 17:00	13°♌50'38	
	742 Aug 29 j 01:57	0°♍			743 Aug 21 j 02:40	0°♍	
superior conj	742 Sep 07 j 22:40	18°♍03'54	1°25'05	superior conj	743 Aug 21 j 12:39	0°♍46'47	1°40'57
minimum elong	742 Sep 08 j 02:53	18°♍22'39	1°24'41	minimum elong	743 Aug 21 j 14:57	0°♍57'35	1°40'49
	742 Sep 14 j 20:14	0°♎		max. Earth dist.	743 Aug 28 j 18:30	13°♍54'50	1.39776 AU
max. Earth dist.	742 Sep 15 j 13:21	1°♎11'48	1.41744 AU	evening rise	743 Sep 01 j 22:31	21°♍04'06	
evening rise	742 Sep 21 j 04:18	10°♎24'19			743 Sep 07 j 09:12	0°♎	
desc. node	742 Sep 21 j 23:45	11°♎42'06		desc. node	743 Sep 08 j 20:47	2°♎21'19	
	742 Oct 03 j 22:23	0°♏			743 Sep 28 j 00:43	0°♏	
evening max el	742 Oct 24 j 10:17	26°♏50'46	22°34'32	evening max el	743 Oct 06 j 23:58	10°♏24'53	23°54'39
	742 Oct 27 j 22:38	0°♐		retrograde	743 Oct 17 j 21:10	16°♏49'01	
retrograde	742 Nov 03 j 05:04	2°♐39'40		evening set	743 Oct 23 j 01:58	14°♏38'51	
evening set	742 Nov 07 j 20:09	0°♐47'08		asc. node	743 Oct 27 j 16:39	9°♏20'05	
	742 Nov 08 j 17:07	30°♑♏		inferior conj	743 Oct 28 j 11:28	8°♏16'17	0°16'13
asc. node	742 Nov 09 j 19:35	28°♏50'02		minimum elong	743 Oct 28 j 11:05	8°♏17'36	0°16'03
inferior conj	742 Nov 13 j 04:33	24°♏26'48	1°08'28	transit middle	743 Oct 28 j 11:05	8°♏17'36	0°16'03
minimum elong	742 Nov 13 j 03:02	24°♏32'04	1°07'50	transit begin	743 Oct 28 j 10:37	8°♏19'10	
min. Earth dist.	742 Nov 13 j 01:15	24°♏38'14	0.67729 AU	transit end	743 Oct 28 j 11:32	8°♏16'03	
morning rise	742 Nov 18 j 09:47	18°♏15'45		min. Earth dist.	743 Oct 27 j 21:44	9°♏02'54	0.67618 AU
direct	742 Nov 22 j 22:55	16°♏24'07		morning rise	743 Nov 02 j 20:09	2°♏09'51	
morning max el	742 Dec 02 j 04:47	21°♏51'11	22°03'33	direct	743 Nov 06 j 19:35	0°♏40'15	
	742 Dec 09 j 04:02	0°♑		morning max el	743 Nov 14 j 23:21	5°♏24'02	20°44'33
desc. node	742 Dec 18 j 22:59	13°♑31'35			743 Dec 03 j 08:07	0°♑	
	742 Dec 29 j 21:28	0°♒		desc. node	743 Dec 05 j 20:02	3°♑44'27	
morning set	743 Jan 04 j 01:22	8°♒10'32		morning set	743 Dec 14 j 04:19	16°♑31'21	
max. Earth dist.	743 Jan 09 j 20:29	17°♒41'22	1.41164 AU		743 Dec 22 j 16:19	0°♒	
	743 Jan 17 j 00:22	0°♓		max. Earth dist.	743 Dec 23 j 01:45	0°♒38'07	1.43017 AU
superior conj	743 Jan 17 j 14:44	1°♓03'30	-2°02'28	superior conj	743 Dec 29 j 18:22	11°♒40'24	-1°59'16
minimum elong	743 Jan 17 j 15:53	1°♓08'38	2°02'26	minimum elong	743 Dec 29 j 14:54	11°♒25'52	1°59'08
evening rise	743 Jan 28 j 01:09	20°♓07'21			744 Jan 09 j 08:53	0°♓	
	743 Feb 02 j 10:07	0°♔		evening rise	744 Jan 10 j 18:01	2°♓26'43	
asc. node	743 Feb 05 j 18:53	5°♔49'51		asc. node	744 Jan 23 j 15:56	24°♓08'35	
evening max el	743 Feb 13 j 08:38	16°♔08'31	18°14'53	evening max el	744 Jan 27 j 20:09	29°♓14'54	18°07'40
retrograde	743 Feb 20 j 09:14	19°♔39'16			744 Jan 28 j 15:16	0°♔	
evening set	743 Feb 22 j 22:37	19°♔12'15		retrograde	744 Feb 03 j 09:28	2°♔39'10	
inferior conj	743 Mar 01 j 22:30	14°♔28'09	3°25'06	evening set	744 Feb 06 j 03:42	2°♔02'31	
minimum elong	743 Mar 02 j 01:23	14°♔21'48	3°24'40		744 Feb 09 j 07:56	30°♕♓	
min. Earth dist.	743 Mar 05 j 07:51	11°♔31'03	0.59776 AU	inferior conj	744 Feb 12 j 13:59	26°♓57'17	3°46'00
morning rise	743 Mar 09 j 01:56	8°♔48'19		minimum elong	744 Feb 12 j 14:43	26°♓55'26	3°45'58
direct	743 Mar 15 j 14:05	6°♔51'24		min. Earth dist.	744 Feb 15 j 13:22	23°♓58'44	0.61882 AU
desc. node	743 Mar 16 j 22:07	6°♔56'11		morning rise	744 Feb 19 j 00:27	21°♓02'22	
morning max el	743 Mar 29 j 21:16	14°♔38'17	27°21'53	direct	744 Feb 25 j 22:47	18°♓33'43	
	743 Apr 11 j 06:22	0°♕		desc. node	744 Mar 02 j 19:11	20°♓06'57	
	743 Apr 28 j 08:57	0°♖		morning max el	744 Mar 11 j 00:50	26°♓26'15	27°47'41
morning set	743 Apr 30 j 02:51	3°♖35'19			744 Mar 14 j 09:09	0°♖	
asc. node	743 May 04 j 18:13	13°♖29'15			744 Apr 03 j 19:23	0°♕	
max. Earth dist.	743 May 06 j 16:12	17°♖40'37	1.32273 AU	morning set	744 Apr 13 j 06:44	18°♕03'54	
					744 Apr 18 j 22:46	0°♖	
superior conj	743 May 07 j 06:14	18°♖57'38	0°26'13	max. Earth dist.	744 Apr 19 j 02:25	0°♖19'44	1.32539 AU
minimum elong	743 May 07 j 05:05	18°♖51'19	0°25'58				
	743 May 12 j 07:31	0°♗		superior conj	744 Apr 20 j 16:28	3°♖46'10	0°00'33
evening rise	743 May 14 j 03:23	3°♗54'03		minimum elong	744 Apr 20 j 16:26	3°♖46'01	0°00'32

behind sun begin	744 Apr 20 j 11:19	3°♄18'10		max. Earth dist.	745 Apr 02 j 06:20	12°♄35'35	1.33211 AU
behind sun end	744 Apr 20 j 21:33	4°♄13'53					
asc. node	744 Apr 20 j 15:15	3°♄39'32		superior conj	745 Apr 04 j 23:27	18°♄20'47	-0°26'28
evening rise	744 Apr 27 j 14:57	18°♄47'50		minimum elong	745 Apr 05 j 00:45	18°♄27'41	0°26'12
	744 May 03 j 03:07	0°♄		asc. node	745 Apr 07 j 12:17	23°♄47'32	
evening max el	744 May 22 j 20:54	29°♄02'46	24°28'35		745 Apr 10 j 09:37	0°♄	
	744 May 23 j 21:28	0°♄		evening rise	745 Apr 12 j 02:37	3°♄37'39	
desc. node	744 May 29 j 18:26	4°♄12'35			745 Apr 26 j 14:03	0°♄	
retrograde	744 Jun 05 j 18:36	6°♄04'10		evening max el	745 May 04 j 11:24	9°♄34'19	22°53'01
evening set	744 Jun 10 j 13:35	5°♄12'42		desc. node	745 May 16 j 15:26	16°♄08'16	
min. Earth dist.	744 Jun 16 j 08:05	2°♄17'38	0.56847 AU	retrograde	745 May 17 j 18:47	16°♄11'13	
inferior conj	744 Jun 19 j 02:08	0°♄32'15	-4°35'08	evening set	745 May 21 j 03:01	15°♄46'41	
minimum elong	744 Jun 18 j 21:49	0°♄39'11	4°34'37	min. Earth dist.	745 May 28 j 20:13	12°♄22'11	0.55489 AU
	744 Jun 19 j 22:22	30°♄		inferior conj	745 May 30 j 08:27	11°♄29'59	-3°35'23
morning rise	744 Jun 27 j 08:48	26°♄28'01		minimum elong	745 May 30 j 00:58	11°♄40'47	3°33'30
direct	744 Jun 29 j 23:51	26°♄09'08		morning rise	745 Jun 08 j 01:22	7°♄36'57	
	744 Jul 08 j 19:32	0°♄		direct	745 Jun 10 j 20:35	7°♄18'33	
morning max el	744 Jul 09 j 09:16	0°♄31'03	19°29'09	morning max el	745 Jun 21 j 20:45	12°♄24'37	20°42'57
asc. node	744 Jul 17 j 14:31	11°♄12'38		asc. node	745 Jul 04 j 11:32	0°♄06'11	
morning set	744 Jul 26 j 17:43	28°♄12'17			745 Jul 04 j 10:11	0°♄	
	744 Jul 27 j 15:12	0°♄		morning set	745 Jul 11 j 00:05	12°♄51'32	
superior conj	744 Aug 03 j 19:01	14°♄18'53	1°46'33	superior conj	745 Jul 18 j 13:04	28°♄26'40	1°43'56
minimum elong	744 Aug 03 j 19:20	14°♄20'24	1°46'32	minimum elong	745 Jul 18 j 11:51	28°♄20'28	1°43'52
max. Earth dist.	744 Aug 09 j 22:13	26°♄01'15	1.37757 AU		745 Jul 19 j 07:23	0°♄	
	744 Aug 12 j 02:29	0°♄		max. Earth dist.	745 Jul 23 j 05:44	7°♄50'36	1.35924 AU
evening rise	744 Aug 13 j 16:54	2°♄51'52		evening rise	745 Jul 27 j 07:51	15°♄39'06	
desc. node	744 Aug 25 j 17:48	22°♄49'49			745 Aug 04 j 10:20	0°♄	
	744 Aug 30 j 11:52	0°♄		desc. node	745 Aug 12 j 14:49	13°♄01'58	
evening max el	744 Sep 18 j 11:50	24°♄02'10	25°11'18		745 Aug 25 j 00:35	0°♄	
	744 Sep 26 j 11:49	0°♄		evening max el	745 Aug 31 j 23:30	7°♄39'24	26°16'58
retrograde	744 Sep 30 j 09:00	0°♄54'16		retrograde	745 Sep 13 j 16:03	14°♄49'46	
	744 Oct 03 j 22:49	30°♄		evening set	745 Sep 20 j 01:30	12°♄10'18	
evening set	744 Oct 06 j 04:24	28°♄27'34		min. Earth dist.	745 Sep 24 j 05:18	7°♄45'43	0.66391 AU
min. Earth dist.	744 Oct 10 j 15:52	23°♄26'28	0.67175 AU	inferior conj	745 Sep 25 j 17:14	5°♄55'11	-1°36'01
inferior conj	744 Oct 11 j 16:19	22°♄06'43	-0°39'07	minimum elong	745 Sep 25 j 19:43	5°♄47'32	1°35'00
minimum elong	744 Oct 11 j 17:18	22°♄03'30	0°38'42	asc. node	745 Sep 30 j 10:45	0°♄53'08	
asc. node	744 Oct 13 j 13:42	19°♄42'34		morning rise	745 Oct 01 j 14:21	0°♄06'11	
morning rise	744 Oct 17 j 06:21	16°♄07'36			745 Oct 01 j 18:45	30°♄	
direct	744 Oct 20 j 17:50	14°♄57'43		direct	745 Oct 04 j 16:00	29°♄12'34	
morning max el	744 Oct 28 j 01:46	19°♄07'37	19°38'11		745 Oct 07 j 15:18	0°♄	
	744 Nov 05 j 16:22	0°♄		morning max el	745 Oct 11 j 11:04	2°♄58'58	18°46'55
greatest brilliancy	744 Nov 10 j 14:30	7°♄13'21	-0.7m		745 Oct 30 j 04:53	0°♄	
desc. node	744 Nov 21 j 17:05	24°♄12'05		morning set	745 Nov 01 j 17:19	3°♄59'11	
morning set	744 Nov 22 j 01:41	24°♄45'21		desc. node	745 Nov 08 j 14:06	14°♄49'38	
	744 Nov 25 j 10:49	0°♄					
max. Earth dist.	744 Dec 04 j 14:32	14°♄22'12	1.44352 AU	superior conj	745 Nov 17 j 23:43	29°♄36'15	-0°59'32
				minimum elong	745 Nov 17 j 16:25	29°♄07'33	0°58'39
superior conj	744 Dec 08 j 19:16	21°♄04'25	-1°38'20	max. Earth dist.	745 Nov 17 j 07:49	28°♄33'43	1.45017 AU
minimum elong	744 Dec 08 j 11:19	20°♄32'27	1°37'39		745 Nov 18 j 05:46	0°♄	
	744 Dec 14 j 07:11	0°♄		evening rise	745 Dec 03 j 13:56	24°♄22'17	
evening rise	744 Dec 22 j 15:29	13°♄53'44			745 Dec 07 j 01:50	0°♄	
	745 Jan 01 j 06:45	0°♄		evening max el	745 Dec 24 j 19:41	25°♄58'29	18°49'27
asc. node	745 Jan 09 j 12:59	11°♄41'25		asc. node	745 Dec 27 j 10:01	28°♄14'39	
evening max el	745 Jan 10 j 08:42	12°♄33'39	18°19'30	retrograde	745 Dec 31 j 13:58	29°♄46'54	
retrograde	745 Jan 16 j 20:27	16°♄04'34		evening set	746 Jan 03 j 18:38	28°♄48'25	
evening set	745 Jan 19 j 19:28	15°♄17'32		inferior conj	746 Jan 09 j 11:45	23°♄06'14	3°27'44
inferior conj	745 Jan 25 j 19:42	9°♄52'40	3°44'51	minimum elong	746 Jan 09 j 09:30	23°♄13'09	3°27'21
minimum elong	745 Jan 25 j 18:35	9°♄55'46	3°44'47	min. Earth dist.	746 Jan 11 j 05:08	20°♄59'04	0.65321 AU
min. Earth dist.	745 Jan 28 j 04:25	7°♄13'17	0.63773 AU	morning rise	746 Jan 15 j 00:01	16°♄56'43	
morning rise	745 Jan 31 j 17:03	3°♄48'35		direct	746 Jan 21 j 15:20	14°♄04'48	
direct	745 Feb 07 j 15:35	1°♄01'04		morning max el	746 Feb 03 j 18:50	21°♄46'43	26°52'50
desc. node	745 Feb 17 j 16:13	5°♄31'33		desc. node	746 Feb 04 j 13:16	22°♄33'45	
morning max el	745 Feb 21 j 09:00	8°♄53'05	27°36'36		746 Feb 10 j 23:48	0°♄	
	745 Mar 09 j 19:15	0°♄			746 Mar 02 j 23:48	0°♄	
	745 Mar 27 j 01:36	0°♄		morning set	746 Mar 11 j 14:14	15°♄37'35	
morning set	745 Mar 28 j 03:37	2°♄08'16		max. Earth dist.	746 Mar 16 j 00:05	24°♄17'18	1.34319 AU

	746 Mar 18 j 19:19	0°♿		morning set	747 Feb 22 j 10:14	28°♿18'57	
					747 Feb 23 j 08:11	0°♿	
superior conj	746 Mar 20 j 01:06	2°♿34'23 -0°53'42		max. Earth dist.	747 Feb 26 j 05:44	5°♿26'56	1.35883 AU
minimum elong	746 Mar 20 j 03:43	2°♿48'03 0°53'13					
asc. node	746 Mar 25 j 09:19	13°♿48'31		superior conj	747 Mar 03 j 18:50	16°♿19'42 -1°19'38	
evening rise	746 Mar 27 j 12:28	18°♿16'27		minimum elong	747 Mar 03 j 22:32	16°♿38'14 1°19'03	
	746 Apr 02 j 09:24	0°♿			747 Mar 10 j 11:35	0°♿	
evening max el	746 Apr 16 j 08:11	20°♿18'41 21°21'44		evening rise	747 Mar 11 j 18:33	2°♿38'08	
retrograde	746 Apr 28 j 09:30	26°♿11'04		asc. node	747 Mar 12 j 06:21	3°♿38'06	
evening set	746 Apr 30 j 17:53	25°♿58'25			747 Mar 28 j 02:19	0°♿	
desc. node	746 May 03 j 12:26	25°♿13'28		evening max el	747 Mar 29 j 16:00	1°♿37'26 20°04'39	
inferior conj	746 May 10 j 03:18	21°♿58'21 -1°53'05		retrograde	747 Apr 09 j 00:16	6°♿36'01	
minimum elong	746 May 09 j 22:05	22°♿05'42 1°51'16		evening set	747 Apr 11 j 01:57	6°♿24'56	
min. Earth dist.	746 May 10 j 08:51	21°♿50'33 0.54955 AU		inferior conj	747 Apr 20 j 00:34	2°♿25'47 0°06'24	
morning rise	746 May 19 j 02:42	17°♿58'45		minimum elong	747 Apr 20 j 00:52	2°♿25'21 0°06'18	
direct	746 May 22 j 06:52	17°♿36'50		transit middle	747 Apr 20 j 00:52	2°♿25'21 0°06'18	
morning max el	746 Jun 03 j 21:23	23°♿35'41 22°14'17		transit begin	747 Apr 19 j 21:11	2°♿30'52	
	746 Jun 09 j 14:19	0°♿		transit end	747 Apr 20 j 04:32	2°♿19'49	
asc. node	746 Jun 21 j 08:34	19°♿28'08		desc. node	747 Apr 20 j 09:28	2°♿12'24	
morning set	746 Jun 25 j 10:00	27°♿42'29		min. Earth dist.	747 Apr 21 j 22:40	1°♿16'42 0.55387 AU	
	746 Jun 26 j 12:15	0°♿			747 Apr 24 j 04:52	30°♿♿	
				morning rise	747 Apr 28 j 21:48	28°♿01'25	
superior conj	746 Jul 02 j 15:11	12°♿59'18 1°34'47		direct	747 May 02 j 20:48	27°♿27'03	
minimum elong	746 Jul 02 j 13:03	12°♿48'05 1°34'36			747 May 11 j 03:46	0°♿	
max. Earth dist.	746 Jul 05 j 21:45	19°♿48'41 1.34431 AU		morning max el	747 May 16 j 14:06	4°♿13'48 23°55'07	
evening rise	746 Jul 10 j 14:37	29°♿13'30			747 Jun 03 j 14:03	0°♿	
	746 Jul 11 j 00:12	0°♿		asc. node	747 Jun 08 j 05:36	9°♿10'41	
	746 Jul 28 j 13:15	0°♿		morning set	747 Jun 09 j 21:40	12°♿39'15	
desc. node	746 Jul 30 j 11:48	2°♿50'31					
evening max el	746 Aug 14 j 11:29	21°♿10'02 27°03'58		superior conj	747 Jun 16 j 22:34	27°♿47'35 1°20'26	
retrograde	746 Aug 27 j 17:52	28°♿28'33		minimum elong	747 Jun 16 j 20:07	27°♿34'19 1°20'07	
evening set	746 Sep 03 j 14:58	25°♿43'30			747 Jun 17 j 23:10	0°♿	
min. Earth dist.	746 Sep 07 j 11:49	21°♿55'36 0.65250 AU		max. Earth dist.	747 Jun 18 j 23:12	2°♿08'36 1.33338 AU	
inferior conj	746 Sep 09 j 12:09	19°♿38'13 -2°32'30		evening rise	747 Jun 24 j 08:52	13°♿22'13	
minimum elong	746 Sep 09 j 16:03	19°♿27'07 2°31'06			747 Jul 03 j 04:12	0°♿	
morning rise	746 Sep 15 j 17:53	14°♿02'17		desc. node	747 Jul 17 j 08:49	22°♿04'58	
asc. node	746 Sep 17 j 07:47	13°♿28'42			747 Jul 23 j 17:56	0°♿	
direct	746 Sep 18 j 12:07	13°♿21'06		evening max el	747 Jul 27 j 22:34	4°♿22'21 27°25'10	
morning max el	746 Sep 25 j 01:01	16°♿53'15 18°12'04		retrograde	747 Aug 10 j 13:39	11°♿41'16	
	746 Oct 04 j 14:38	0°♿		evening set	747 Aug 17 j 17:46	9°♿01'08	
morning set	746 Oct 13 j 13:43	14°♿39'05		min. Earth dist.	747 Aug 21 j 09:20	5°♿47'04 0.63757 AU	
	746 Oct 22 j 23:43	0°♿		inferior conj	747 Aug 23 j 22:33	3°♿09'35 -3°25'49	
desc. node	746 Oct 26 j 11:08	5°♿33'44		minimum elong	747 Aug 24 j 03:25	2°♿57'02 3°24'24	
					747 Aug 27 j 05:29	30°♿♿	
superior conj	746 Oct 28 j 02:44	8°♿10'59 -0°10'56		morning rise	747 Aug 30 j 14:08	27°♿50'00	
minimum elong	746 Oct 28 j 01:19	8°♿05'25 0°10'45		direct	747 Sep 02 j 03:32	27°♿17'44	
behind sun begin	746 Oct 27 j 17:01	7°♿32'29		asc. node	747 Sep 04 j 04:50	27°♿38'52	
behind sun end	746 Oct 28 j 09:38	8°♿38'19			747 Sep 07 j 22:26	0°♿	
max. Earth dist.	746 Oct 31 j 02:31	12°♿54'37 1.44948 AU		morning max el	747 Sep 08 j 16:52	0°♿43'39 17°54'30	
	746 Nov 11 j 00:48	0°♿		morning set	747 Sep 25 j 12:31	26°♿35'09	
evening rise	746 Nov 13 j 13:34	3°♿56'20			747 Sep 27 j 12:00	0°♿	
greatest brilliancy	746 Nov 25 j 21:29	22°♿57'26 -0.7m					
	746 Nov 30 j 16:08	0°♿		superior conj	747 Oct 08 j 00:20	17°♿42'31 0°35'09	
evening max el	746 Dec 08 j 03:05	9°♿26'43 19°36'06		minimum elong	747 Oct 08 j 03:57	17°♿57'21 0°34'40	
asc. node	746 Dec 14 j 07:03	13°♿33'57		desc. node	747 Oct 13 j 08:10	26°♿20'27	
retrograde	746 Dec 15 j 10:51	13°♿41'26		max. Earth dist.	747 Oct 13 j 19:52	27°♿07'13 1.44164 AU	
evening set	746 Dec 18 j 22:41	12°♿30'00			747 Oct 15 j 15:18	0°♿	
inferior conj	746 Dec 24 j 11:05	6°♿33'06 2°58'53		evening rise	747 Oct 23 j 22:28	12°♿57'34	
minimum elong	746 Dec 24 j 08:22	6°♿41'59 2°58'11			747 Nov 04 j 04:16	0°♿	
min. Earth dist.	746 Dec 25 j 14:08	5°♿04'29 0.66481 AU		evening max el	747 Nov 21 j 05:21	22°♿56'00 20°37'16	
morning rise	746 Dec 29 j 17:48	0°♿20'42		retrograde	747 Nov 29 j 08:33	27°♿44'09	
	746 Dec 30 j 03:17	30°♿♿		asc. node	747 Dec 01 j 04:05	27°♿25'33	
direct	747 Jan 04 j 21:12	27°♿37'02		evening set	747 Dec 03 j 05:31	26°♿17'52	
	747 Jan 11 j 09:44	0°♿		inferior conj	747 Dec 08 j 15:06	20°♿09'14 2°21'11	
morning max el	747 Jan 17 j 04:00	4°♿54'51 25°44'20		minimum elong	747 Dec 08 j 12:30	20°♿18'06 2°20'19	
desc. node	747 Jan 22 j 10:19	10°♿45'46		min. Earth dist.	747 Dec 09 j 05:21	19°♿20'43 0.67249 AU	
	747 Feb 05 j 11:11	0°♿		morning rise	747 Dec 13 j 19:17	13°♿55'58	

direct	747 Dec 19 j 08:11	11°♊29'29			748 Dec 10 j 09:17	0°♊	
morning max el	747 Dec 30 j 12:17	18°♊09'12	24°21'05	morning max el	748 Dec 11 j 22:03	1°♊28'37	22°53'00
desc. node	748 Jan 09 j 07:23	29°♊47'11		desc. node	748 Dec 26 j 04:27	19°♊23'31	
	748 Jan 09 j 11:16	0°♊			749 Jan 02 j 10:58	0°♊	
	748 Jan 29 j 13:07	0°♊		morning set	749 Jan 15 j 07:07	20°♊14'17	
morning set	748 Feb 04 j 09:57	9°♊56'39		max. Earth dist.	749 Jan 19 j 22:22	28°♊02'59	1.39964 AU
max. Earth dist.	748 Feb 08 j 02:38	16°♊30'03	1.37830 AU		749 Jan 21 j 01:30	0°♊	
superior conj	748 Feb 15 j 01:22	29°♊27'55	-1°42'02	superior conj	749 Jan 27 j 16:15	11°♊46'49	-1°57'53
minimum elong	748 Feb 15 j 05:22	29°♊47'09	1°41'37	minimum elong	749 Jan 27 j 19:05	11°♊59'44	1°57'45
	748 Feb 15 j 08:02	0°♊		evening rise	749 Feb 06 j 09:17	0°♊02'23	
evening rise	748 Feb 23 j 18:28	16°♊36'11			749 Feb 06 j 08:47	0°♊	
asc. node	748 Feb 27 j 03:24	23°♊11'26		asc. node	749 Feb 13 j 00:27	12°♊21'54	
	748 Mar 01 j 19:38	0°♊		evening max el	749 Feb 22 j 14:46	26°♊05'46	18°27'48
evening max el	748 Mar 11 j 11:00	13°♊35'15	19°06'14	retrograde	749 Mar 02 j 02:51	29°♊47'19	
retrograde	748 Mar 20 j 04:04	17°♊47'35		evening set	749 Mar 04 j 13:11	29°♊25'15	
evening set	748 Mar 22 j 09:00	17°♊32'33		inferior conj	749 Mar 11 j 22:29	24°♊52'53	3°00'07
inferior conj	748 Mar 30 j 13:06	13°♊19'58	1°49'53	minimum elong	749 Mar 12 j 02:22	24°♊45'04	2°59'17
minimum elong	748 Mar 30 j 16:57	13°♊13'20	1°48'42	min. Earth dist.	749 Mar 15 j 08:52	22°♊08'24	0.58566 AU
min. Earth dist.	748 Apr 02 j 14:04	11°♊15'21	0.56686 AU	morning rise	749 Mar 19 j 12:52	19°♊25'36	
desc. node	748 Apr 06 j 06:31	9°♊05'46		desc. node	749 Mar 24 j 03:35	17°♊56'07	
morning rise	748 Apr 07 j 21:56	8°♊22'26		direct	749 Mar 25 j 14:09	17°♊50'44	
direct	748 Apr 12 j 22:49	7°♊23'04		morning max el	749 Apr 08 j 22:49	25°♊30'26	26°50'39
morning max el	748 Apr 27 j 04:41	14°♊42'56	25°32'23		749 Apr 13 j 03:09	0°♊	
	748 May 09 j 08:35	0°♊			749 May 02 j 13:55	0°♊	
morning set	748 May 24 j 09:27	27°♊36'46		morning set	749 May 08 j 19:41	12°♊28'12	
asc. node	748 May 25 j 02:40	29°♊07'51		asc. node	749 May 11 j 23:44	19°♊13'32	
	748 May 25 j 12:28	0°♊					
superior conj	748 May 31 j 09:06	12°♊44'33	1°01'56	superior conj	749 May 15 j 20:52	27°♊42'48	0°40'03
minimum elong	748 May 31 j 06:50	12°♊32'06	1°01'32	minimum elong	749 May 15 j 19:12	27°♊33'39	0°39'43
max. Earth dist.	748 Jun 01 j 07:57	14°♊49'24	1.32637 AU	max. Earth dist.	749 May 15 j 20:17	27°♊39'36	1.32304 AU
evening rise	748 Jun 07 j 11:12	27°♊54'50		evening rise	749 May 16 j 21:49	0°♊	
	748 Jun 08 j 11:36	0°♊			749 May 22 j 18:48	12°♊41'15	
	748 Jun 25 j 11:10	0°♊			749 May 31 j 14:50	0°♊	
desc. node	748 Jul 03 j 05:49	10°♊31'08		desc. node	749 Jun 20 j 02:51	27°♊48'25	
evening max el	748 Jul 09 j 06:24	17°♊03'12	27°15'06	evening max el	749 Jun 21 j 08:08	29°♊00'22	26°31'57
retrograde	748 Jul 23 j 02:36	24°♊19'17		retrograde	749 Jun 22 j 09:57	0°♊	
evening set	748 Jul 30 j 06:06	21°♊56'50		evening set	749 Jul 05 j 07:45	6°♊14'01	
min. Earth dist.	748 Aug 02 j 20:26	19°♊08'39	0.61948 AU	min. Earth dist.	749 Jul 11 j 23:21	4°♊22'14	
inferior conj	748 Aug 05 j 21:24	16°♊22'13	-4°11'34		749 Jul 15 j 21:22	1°♊45'24	0.59917 AU
minimum elong	748 Aug 06 j 02:10	16°♊11'17	4°10'36	inferior conj	749 Jul 18 j 02:40	30°♊00'00	
morning rise	748 Aug 12 j 23:42	11°♊22'26		minimum elong	749 Jul 19 j 05:07	29°♊06'41	-4°42'45
direct	748 Aug 15 j 10:53	10°♊56'11		morning rise	749 Jul 19 j 07:57	29°♊01'02	4°42'29
asc. node	748 Aug 21 j 01:54	13°♊16'45		direct	749 Jul 26 j 18:33	24°♊29'24	
morning max el	748 Aug 22 j 07:46	14°♊23'57	17°55'14	morning max el	749 Jul 29 j 05:49	24°♊07'08	
	748 Sep 02 j 00:42	0°♊		asc. node	749 Aug 05 j 18:41	27°♊46'18	18°15'25
morning set	748 Sep 07 j 07:37	9°♊29'23			749 Aug 07 j 22:58	0°♊07'43	
					749 Aug 07 j 20:23	0°♊	
superior conj	748 Sep 18 j 01:07	28°♊34'22	1°10'31	morning set	749 Aug 21 j 17:27	23°♊06'09	
minimum elong	748 Sep 18 j 05:55	28°♊55'04	1°09'58		749 Aug 25 j 08:52	0°♊	
	748 Sep 18 j 21:02	0°♊		superior conj	749 Aug 31 j 03:06	10°♊41'06	1°33'12
max. Earth dist.	748 Sep 25 j 09:24	10°♊55'11	1.42763 AU	minimum elong	749 Aug 31 j 06:35	10°♊56'54	1°32'55
desc. node	748 Sep 29 j 05:11	17°♊06'43		max. Earth dist.	749 Sep 07 j 17:16	24°♊02'59	1.40925 AU
evening rise	748 Oct 02 j 09:09	22°♊07'42			749 Sep 11 j 06:22	0°♊	
	748 Oct 07 j 11:08	0°♊		evening rise	749 Sep 12 j 13:23	2°♊07'31	
	748 Oct 28 j 12:09	0°♊		desc. node	749 Sep 16 j 02:12	7°♊49'19	
evening max el	748 Nov 03 j 01:53	6°♊25'38	21°49'37		749 Sep 30 j 20:33	0°♊	
retrograde	748 Nov 12 j 05:14	11°♊51'49		evening max el	749 Oct 16 j 17:21	19°♊56'45	23°08'36
evening set	748 Nov 16 j 13:15	10°♊09'00		retrograde	749 Oct 26 j 23:25	26°♊01'33	
asc. node	748 Nov 17 j 01:09	9°♊43'52		evening set	749 Oct 31 j 20:15	24°♊01'13	
inferior conj	748 Nov 21 j 21:40	3°♊51'51	1°36'36	asc. node	749 Nov 03 j 22:12	20°♊42'52	
minimum elong	748 Nov 21 j 19:38	3°♊58'52	1°35'49	inferior conj	749 Nov 06 j 04:56	17°♊39'18	0°46'45
min. Earth dist.	748 Nov 22 j 00:26	3°♊42'16	0.67652 AU	minimum elong	749 Nov 06 j 03:51	17°♊43'00	0°46'19
	748 Nov 24 j 19:49	30°♊00'00		min. Earth dist.	749 Nov 05 j 21:05	18°♊06'17	0.67715 AU
morning rise	748 Nov 27 j 01:52	27°♊39'36		morning rise	749 Nov 11 j 11:23	11°♊30'05	
direct	748 Dec 01 j 23:32	25°♊34'59		direct	749 Nov 15 j 18:26	9°♊48'15	

morning max el	749 Nov 24 j 12:43	14° \mathbb{M} 56'06	21°28'47	transit begin	750 Oct 21 j 08:50	1° \mathbb{M} 36'46	
	749 Dec 06 j 12:56	0° \mathbb{X}		transit end	750 Oct 21 j 13:48	1° \mathbb{M} 20'09	
desc. node	749 Dec 13 j 01:29	9° \mathbb{X} 25'03		asc. node	750 Oct 21 j 19:15	1° \mathbb{M} 01'53	
morning set	749 Dec 25 j 23:20	29° \mathbb{X} 10'12			750 Oct 22 j 14:00	30° \mathbb{R} $\underline{\mathbb{A}}$	
	749 Dec 26 j 11:54	0° \mathbb{Z}		morning rise	750 Oct 26 j 21:52	25° $\underline{\mathbb{A}}$ 25'16	
max. Earth dist.	750 Jan 01 j 23:07	10° \mathbb{Z} 27'28	1.41994 AU	direct	750 Oct 30 j 15:52	24° $\underline{\mathbb{A}}$ 04'36	
				morning max el	750 Nov 07 j 10:35	28° $\underline{\mathbb{A}}$ 33'14	20°14'37
superior conj	750 Jan 09 j 10:13	23° \mathbb{Z} 03'59	-2°03'02		750 Nov 08 j 19:20	0° \mathbb{M}	
minimum elong	750 Jan 09 j 09:38	23° \mathbb{Z} 01'28	2°03'03	desc. node	750 Nov 29 j 22:29	29° \mathbb{M} 44'11	
	750 Jan 13 j 09:05	0° \approx			750 Nov 30 j 02:38	0° \mathbb{X}	
evening rise	750 Jan 20 j 11:24	12° \approx 48'47		morning set	750 Dec 04 j 20:35	7° \mathbb{X} 17'50	
	750 Jan 30 j 05:47	0° \mathbb{X}		max. Earth dist.	750 Dec 15 j 07:08	23° \mathbb{X} 43'19	1.43650 AU
asc. node	750 Jan 30 j 21:31	1° \mathbb{X} 02'14			750 Dec 19 j 04:19	0° \mathbb{Z}	
evening max el	750 Feb 06 j 00:18	9° \mathbb{X} 01'22	18°09'23				
retrograde	750 Feb 12 j 19:01	12° \mathbb{X} 28'00		superior conj	750 Dec 21 j 02:22	3° \mathbb{Z} 08'35	-1°52'44
evening set	750 Feb 15 j 10:23	11° \mathbb{X} 57'08		minimum elong	750 Dec 20 j 20:42	2° \mathbb{Z} 45'18	1°52'23
inferior conj	750 Feb 22 j 04:02	7° \mathbb{X} 03'52	3°37'05	evening rise	751 Jan 02 j 20:27	24° \mathbb{Z} 45'58	
minimum elong	750 Feb 22 j 06:01	6° \mathbb{X} 59'13	3°36'53		751 Jan 05 j 20:46	0° \approx	
min. Earth dist.	750 Feb 25 j 10:00	4° \mathbb{X} 03'07	0.60681 AU	asc. node	751 Jan 17 j 18:33	19° \approx 02'38	
morning rise	750 Feb 28 j 23:48	1° \mathbb{X} 16'18		evening max el	751 Jan 20 j 12:34	22° \approx 13'24	18°10'29
	750 Mar 03 j 08:40	30° \mathbb{R} \approx		retrograde	751 Jan 27 j 00:15	25° \approx 39'04	
direct	750 Mar 07 j 17:22	29° \approx 04'43		evening set	751 Jan 29 j 20:24	24° \approx 58'15	
desc. node	750 Mar 11 j 00:39	29° \approx 34'22		inferior conj	751 Feb 05 j 02:02	19° \approx 44'45	3°47'47
	750 Mar 12 j 06:32	0° \mathbb{X}		minimum elong	751 Feb 05 j 01:55	19° \approx 45'04	3°47'47
morning max el	750 Mar 21 j 23:10	6° \mathbb{X} 55'20	27°37'23	min. Earth dist.	751 Feb 07 j 19:38	16° \approx 51'52	0.62720 AU
	750 Apr 08 j 09:29	0° \mathbb{Y}		morning rise	751 Feb 11 j 06:24	13° \approx 45'15	
morning set	750 Apr 23 j 02:30	27° \mathbb{Y} 07'20		direct	751 Feb 18 j 05:59	11° \approx 06'25	
	750 Apr 24 j 11:40	0° \mathbb{Z}		desc. node	751 Feb 25 j 21:41	13° \approx 45'52	
asc. node	750 Apr 28 j 20:47	9° \mathbb{Z} 23'25		morning max el	751 Mar 04 j 04:57	19° \approx 00'27	27°47'16
max. Earth dist.	750 Apr 29 j 08:17	10° \mathbb{Z} 26'10	1.32342 AU		751 Mar 13 j 12:52	0° \mathbb{X}	
					751 Apr 01 j 06:06	0° \mathbb{Y}	
superior conj	750 Apr 30 j 08:09	12° \mathbb{Z} 36'39	0°15'33	morning set	751 Apr 07 j 03:46	11° \mathbb{Y} 26'57	
minimum elong	750 Apr 30 j 07:27	12° \mathbb{Z} 32'47	0°15'23	max. Earth dist.	751 Apr 12 j 16:08	22° \mathbb{Y} 56'08	1.32769 AU
behind sun begin	750 Apr 30 j 06:15	12° \mathbb{Z} 26'16					
behind sun end	750 Apr 30 j 08:38	12° \mathbb{Z} 39'19		superior conj	751 Apr 14 j 17:16	27° \mathbb{Y} 20'22	-0°10'49
evening rise	750 May 07 j 05:28	27° \mathbb{Z} 34'08		minimum elong	751 Apr 14 j 17:47	27° \mathbb{Y} 23'09	0°10'42
	750 May 08 j 09:14	0° \mathbb{II}		behind sun begin	751 Apr 14 j 13:54	27° \mathbb{Y} 02'13	
	750 May 25 j 11:14	0° \mathbb{E}		behind sun end	751 Apr 14 j 21:39	27° \mathbb{Y} 44'07	
evening max el	750 Jun 03 j 02:50	10° \mathbb{E} 11'47	25°19'30	asc. node	751 Apr 15 j 17:49	29° \mathbb{Y} 33'26	
desc. node	750 Jun 06 j 23:52	13° \mathbb{E} 28'43			751 Apr 15 j 22:43	0° \mathbb{Z}	
retrograde	750 Jun 17 j 03:28	17° \mathbb{E} 20'50		evening rise	751 Apr 21 j 17:18	12° \mathbb{Z} 27'02	
evening set	750 Jun 22 j 17:41	16° \mathbb{E} 08'00			751 Apr 30 j 15:42	0° \mathbb{II}	
min. Earth dist.	750 Jun 27 j 14:42	13° \mathbb{E} 23'59	0.57886 AU	evening max el	751 May 15 j 17:21	20° \mathbb{II} 51'35	23°48'20
inferior conj	750 Jun 30 j 18:17	11° \mathbb{E} 13'28	-4°48'33	desc. node	751 May 24 j 20:54	26° \mathbb{II} 57'02	
minimum elong	750 Jun 30 j 16:54	11° \mathbb{E} 15'53	4°48'30	retrograde	751 May 29 j 11:13	27° \mathbb{II} 45'04	
morning rise	750 Jul 08 j 18:46	6° \mathbb{E} 58'31		evening set	751 Jun 02 j 14:37	27° \mathbb{II} 07'14	
direct	750 Jul 11 j 07:54	6° \mathbb{E} 38'51		min. Earth dist.	751 Jun 09 j 04:09	24° \mathbb{II} 00'50	0.56183 AU
morning max el	750 Jul 19 j 22:31	10° \mathbb{E} 41'30	18°56'09	inferior conj	751 Jun 11 j 11:21	22° \mathbb{II} 36'56	-4°15'40
asc. node	750 Jul 25 j 20:01	17° \mathbb{E} 56'33		minimum elong	751 Jun 11 j 05:12	22° \mathbb{II} 46'20	4°14'35
	750 Aug 01 j 20:03	0° \mathbb{Q}		morning rise	751 Jun 19 j 22:31	18° \mathbb{II} 38'48	
morning set	750 Aug 05 j 13:40	7° \mathbb{Q} 13'44		direct	751 Jun 22 j 14:53	18° \mathbb{II} 20'27	
				morning max el	751 Jul 02 j 16:30	23° \mathbb{II} 00'14	19°58'02
superior conj	750 Aug 14 j 00:40	23° \mathbb{Q} 46'30	1°44'27		751 Jul 08 j 14:15	0° \mathbb{E}	
minimum elong	750 Aug 14 j 02:06	23° \mathbb{Q} 53'18	1°44'24	asc. node	751 Jul 12 j 17:03	6° \mathbb{E} 30'08	
	750 Aug 17 j 07:56	0° \mathbb{P}		morning set	751 Jul 20 j 17:07	21° \mathbb{E} 44'06	
max. Earth dist.	750 Aug 20 j 20:39	6° \mathbb{P} 26'13	1.38899 AU		751 Jul 24 j 18:26	0° \mathbb{Q}	
evening rise	750 Aug 24 j 18:02	13° \mathbb{P} 16'02					
desc. node	750 Sep 02 j 23:11	28° \mathbb{P} 24'06		superior conj	751 Jul 28 j 12:34	7° \mathbb{Q} 35'45	1°46'19
	750 Sep 03 j 23:46	0° $\underline{\mathbb{A}}$		minimum elong	751 Jul 28 j 12:09	7° \mathbb{Q} 33'42	1°46'19
	750 Sep 25 j 22:05	0° \mathbb{M}		max. Earth dist.	751 Aug 03 j 01:07	18° \mathbb{Q} 21'48	1.36944 AU
evening max el	750 Sep 29 j 05:45	3° \mathbb{M} 31'07	24°28'12	evening rise	751 Aug 06 j 21:52	25° \mathbb{Q} 31'35	
retrograde	750 Oct 10 j 13:55	10° \mathbb{M} 09'10			751 Aug 09 j 10:01	0° \mathbb{P}	
evening set	750 Oct 16 j 00:49	7° \mathbb{M} 51'40		desc. node	751 Aug 20 j 20:13	18° \mathbb{P} 46'36	
min. Earth dist.	750 Oct 20 j 16:53	2° \mathbb{M} 30'11	0.67459 AU		751 Aug 28 j 12:38	0° $\underline{\mathbb{A}}$	
inferior conj	750 Oct 21 j 11:08	1° \mathbb{M} 29'02	-0°07'00	evening max el	751 Sep 11 j 17:31	17° $\underline{\mathbb{A}}$ 09'30	25°41'06
minimum elong	750 Oct 21 j 11:19	1° \mathbb{M} 28'27	0°06'55	retrograde	751 Sep 23 j 23:49	24° $\underline{\mathbb{A}}$ 10'46	
transit middle	750 Oct 21 j 11:19	1° \mathbb{M} 28'27	0°06'55	evening set	751 Sep 30 j 01:12	21° $\underline{\mathbb{A}}$ 38'18	

min. Earth dist.	751 Oct 04 j 09:26	16° Ω 52'16	0.66883 AU	retrograde	752 Sep 06 j 04:31	7° Ω 59'51	
inferior conj	751 Oct 05 j 14:34	15° Ω 19'17	-1°03'10	evening set	752 Sep 12 j 19:20	5° Ω 17'15	
minimum elong	751 Oct 05 j 16:11	15° Ω 14'07	1°02'29	min. Earth dist.	752 Sep 16 j 20:13	1° Ω 08'13	0.65957 AU
asc. node	751 Oct 08 j 16:17	11° Ω 38'52			752 Sep 17 j 19:11	30° \mathbb{R} \mathbb{M}	
morning rise	751 Oct 11 j 07:23	9° Ω 23'47		inferior conj	752 Sep 18 j 13:13	29° \mathbb{M} 06'02	-2°00'09
direct	751 Oct 14 j 14:24	8° Ω 21'13		minimum elong	752 Sep 18 j 16:20	28° \mathbb{M} 56'44	1°58'56
morning max el	751 Oct 21 j 16:02	12° Ω 20'07	19°14'20	morning rise	752 Sep 24 j 13:49	23° \mathbb{M} 22'02	
	751 Nov 03 j 17:23	0° \mathbb{M}		asc. node	752 Sep 24 j 13:18	23° \mathbb{M} 22'45	
morning set	751 Nov 13 j 23:12	15° \mathbb{M} 49'59		direct	752 Sep 27 j 12:07	22° \mathbb{M} 33'59	
desc. node	751 Nov 16 j 19:30	20° \mathbb{M} 16'10		morning max el	752 Oct 04 j 03:34	26° \mathbb{M} 12'58	18°29'58
	751 Nov 23 j 00:53	0° \mathbb{X}			752 Oct 07 j 09:51	0° Ω	
max. Earth dist.	751 Nov 27 j 21:51	7° \mathbb{X} 39'47	1.44725 AU	morning set	752 Oct 24 j 02:51	25° Ω 40'23	
					752 Oct 26 j 19:34	0° \mathbb{M}	
superior conj	751 Nov 30 j 16:59	12° \mathbb{X} 05'26	-1°23'47	desc. node	752 Nov 02 j 16:33	10° \mathbb{M} 56'52	
minimum elong	751 Nov 30 j 08:27	11° \mathbb{X} 31'36	1°22'54				
	751 Dec 11 j 19:47	0° \mathbb{Z}		superior conj	752 Nov 08 j 17:59	20° \mathbb{M} 30'18	-0°39'21
evening rise	751 Dec 15 j 08:18	5° \mathbb{Z} 47'21		minimum elong	752 Nov 08 j 12:52	20° \mathbb{M} 10'11	0°38'41
	751 Dec 30 j 11:52	0° \approx		max. Earth dist.	752 Nov 09 j 16:34	21° \mathbb{M} 59'07	1.45084 AU
evening max el	752 Jan 04 j 00:46	5° \approx 35'09	18°30'13		752 Nov 14 j 19:03	0° \mathbb{X}	
asc. node	752 Jan 04 j 15:35	6° \approx 11'32		evening rise	752 Nov 24 j 20:40	15° \mathbb{X} 51'33	
retrograde	752 Jan 10 j 14:17	9° \approx 11'56			752 Dec 03 j 19:36	0° \mathbb{Z}	
evening set	752 Jan 13 j 15:38	8° \approx 20'07		greatest brilliancy	752 Dec 04 j 07:44	0° \mathbb{Z} 47'25	-0.8m
inferior conj	752 Jan 19 j 12:31	2° \approx 47'48	3°39'14	evening max el	752 Dec 17 j 10:30	19° \mathbb{Z} 01'57	19°07'25
minimum elong	752 Jan 19 j 10:50	2° \approx 52'43	3°39'03	asc. node	752 Dec 21 j 12:36	22° \mathbb{Z} 15'16	
min. Earth dist.	752 Jan 21 j 14:43	0° \approx 20'56	0.64480 AU	retrograde	752 Dec 24 j 09:33	23° \mathbb{Z} 00'16	
	752 Jan 21 j 22:05	30° \mathbb{R} \mathbb{Z}		evening set	752 Dec 27 j 17:11	21° \mathbb{Z} 56'16	
morning rise	752 Jan 25 j 05:33	26° \mathbb{Z} 41'19		inferior conj	753 Jan 02 j 08:00	16° \mathbb{Z} 07'23	3°16'44
direct	752 Feb 01 j 01:57	23° \mathbb{Z} 50'00		minimum elong	753 Jan 02 j 05:28	16° \mathbb{Z} 15'23	3°16'12
desc. node	752 Feb 12 j 18:43	29° \mathbb{Z} 55'18		min. Earth dist.	753 Jan 03 j 19:01	14° \mathbb{Z} 16'29	0.65862 AU
	752 Feb 12 j 20:46	0° \approx		morning rise	753 Jan 07 j 17:31	9° \mathbb{Z} 56'38	
morning max el	752 Feb 14 j 13:52	1° \approx 38'48	27°21'33	direct	753 Jan 14 j 04:13	7° \mathbb{Z} 07'08	
	752 Mar 06 j 16:40	0° \mathbb{H}		morning max el	753 Jan 26 j 23:33	14° \mathbb{Z} 39'46	26°26'17
morning set	752 Mar 20 j 20:42	25° \mathbb{H} 17'26		desc. node	753 Jan 29 j 15:45	17° \mathbb{Z} 30'05	
	752 Mar 23 j 05:38	0° \mathbb{Y}			753 Feb 08 j 13:04	0° \approx	
max. Earth dist.	752 Mar 25 j 15:56	4° \mathbb{Y} 57'13	1.33623 AU		753 Feb 27 j 10:44	0° \mathbb{H}	
				morning set	753 Mar 04 j 01:43	8° \mathbb{H} 28'02	
superior conj	752 Mar 28 j 22:16	11° \mathbb{Y} 47'00	-0°38'04	max. Earth dist.	753 Mar 08 j 04:49	16° \mathbb{H} 25'16	1.34931 AU
minimum elong	752 Mar 29 j 00:08	11° \mathbb{Y} 56'53	0°37'41				
asc. node	752 Apr 01 j 14:51	19° \mathbb{Y} 39'00		superior conj	753 Mar 12 j 20:55	25° \mathbb{H} 49'43	-1°04'58
evening rise	752 Apr 05 j 04:25	27° \mathbb{Y} 12'59		minimum elong	753 Mar 13 j 00:03	26° \mathbb{H} 05'48	1°04'24
	752 Apr 06 j 12:30	0° \mathbb{B}			753 Mar 14 j 21:22	0° \mathbb{Y}	
	752 Apr 25 j 00:05	0° \mathbb{I}		asc. node	753 Mar 19 j 11:55	9° \mathbb{Y} 36'01	
evening max el	752 Apr 26 j 09:55	1° \mathbb{I} 25'56	22°13'04	evening rise	753 Mar 20 j 12:58	11° \mathbb{Y} 45'43	
retrograde	752 May 09 j 06:10	7° \mathbb{I} 45'16			753 Mar 30 j 03:10	0° \mathbb{B}	
desc. node	752 May 10 j 17:56	7° \mathbb{I} 40'17		evening max el	753 Apr 08 j 11:03	12° \mathbb{B} 23'07	20°46'51
evening set	752 May 12 j 02:19	7° \mathbb{I} 27'26		retrograde	753 Apr 19 j 19:13	17° \mathbb{B} 52'50	
min. Earth dist.	752 May 20 j 16:21	3° \mathbb{I} 46'47	0.55152 AU	evening set	753 Apr 21 j 23:13	17° \mathbb{B} 41'35	
inferior conj	752 May 21 j 11:29	3° \mathbb{I} 19'51	-2°56'16	desc. node	753 Apr 27 j 14:56	15° \mathbb{B} 41'52	
minimum elong	752 May 21 j 04:15	3° \mathbb{I} 30'03	2°54'06	inferior conj	753 May 01 j 05:30	13° \mathbb{B} 43'42	-1°02'26
	752 May 28 j 07:53	30° \mathbb{R} \mathbb{B}		minimum elong	753 May 01 j 02:32	13° \mathbb{B} 47'56	1°01'22
morning rise	752 May 30 j 07:51	29° \mathbb{B} 26'17		min. Earth dist.	753 May 02 j 05:05	13° \mathbb{B} 10'02	0.55025 AU
direct	752 Jun 02 j 06:11	29° \mathbb{B} 06'56		morning rise	753 May 10 j 05:20	9° \mathbb{B} 35'56	
	752 Jun 06 j 23:22	0° \mathbb{I}		direct	753 May 13 j 16:21	9° \mathbb{B} 10'10	
morning max el	752 Jun 13 j 23:05	4° \mathbb{I} 35'02	21°19'52	morning max el	753 May 26 j 19:46	15° \mathbb{B} 29'50	22°56'39
asc. node	752 Jun 28 j 14:05	25° \mathbb{I} 36'55			753 Jun 07 j 03:25	0° \mathbb{I}	
	752 Jun 30 j 20:30	0° \mathbb{E}		asc. node	753 Jun 15 j 11:09	15° \mathbb{I} 08'38	
morning set	752 Jul 04 j 01:17	6° \mathbb{E} 29'18		morning set	753 Jun 18 j 12:11	21° \mathbb{I} 23'40	
					753 Jun 22 j 13:16	0° \mathbb{E}	
superior conj	752 Jul 11 j 10:26	21° \mathbb{E} 55'12	1°40'45				
minimum elong	752 Jul 11 j 08:46	21° \mathbb{E} 46'31	1°40'39	superior conj	753 Jun 25 j 15:07	6° \mathbb{E} 35'29	1°29'16
	752 Jul 15 j 09:28	0° \mathbb{Q}		minimum elong	753 Jun 25 j 12:47	6° \mathbb{E} 23'02	1°29'01
max. Earth dist.	752 Jul 15 j 12:14	0° \mathbb{Q} 13'50	1.35252 AU	max. Earth dist.	753 Jun 28 j 08:38	12° \mathbb{E} 21'36	1.33925 AU
evening rise	752 Jul 19 j 20:11	8° \mathbb{Q} 40'46		evening rise	753 Jul 03 j 08:19	22° \mathbb{E} 30'58	
	752 Aug 01 j 00:07	0° \mathbb{M}			753 Jul 07 j 05:40	0° \mathbb{Q}	
desc. node	752 Aug 06 j 17:15	8° \mathbb{M} 49'49		desc. node	753 Jul 24 j 14:16	28° \mathbb{Q} 25'20	
	752 Aug 23 j 10:56	0° Ω			753 Jul 25 j 17:32	0° \mathbb{M}	
evening max el	752 Aug 24 j 05:37	0° Ω 45'49	26°39'39	evening max el	753 Aug 06 j 17:26	14° \mathbb{M} 09'57	27°16'21

retrograde	753 Aug 20 j 03:39	21° \mathbb{M} 28'45		desc. node	754 Jul 11 j 11:17	17° Ω 21'39	
evening set	753 Aug 27 j 04:41	18° \mathbb{M} 44'09		evening max el	754 Jul 20 j 03:14	27° Ω 10'02	27°24'50
min. Earth dist.	753 Aug 30 j 22:58	15° \mathbb{M} 11'31	0.64667 AU		754 Jul 23 j 09:25	0° \mathbb{M}	
inferior conj	753 Sep 02 j 04:51	12° \mathbb{M} 44'33	-2°55'43	retrograde	754 Aug 02 j 20:52	4° \mathbb{M} 28'40	
minimum elong	753 Sep 02 j 09:15	12° \mathbb{M} 32'32	2°54'15	evening set	754 Aug 10 j 01:56	1° \mathbb{M} 54'00	
morning rise	753 Sep 08 j 14:40	7° \mathbb{M} 15'22			754 Aug 12 j 10:45	30° \mathbb{R} δ	
direct	753 Sep 11 j 06:36	6° \mathbb{M} 38'18		min. Earth dist.	754 Aug 13 j 16:05	28° Ω 52'34	0.63022 AU
asc. node	753 Sep 11 j 10:21	6° \mathbb{M} 38'26		inferior conj	754 Aug 16 j 10:46	26° Ω 09'13	-3°46'32
morning max el	753 Sep 17 j 18:43	10° \mathbb{M} 06'25	18°02'26	minimum elong	754 Aug 16 j 15:46	25° Ω 56'55	3°45'13
	753 Oct 01 j 08:27	0° $\underline{\Omega}$		morning rise	754 Aug 23 j 06:53	20° Ω 58'01	
morning set	753 Oct 05 j 11:08	6° $\underline{\Omega}$ 54'44		direct	754 Aug 25 j 18:57	20° Ω 28'44	
				asc. node	754 Aug 29 j 07:26	21° Ω 27'53	
superior conj	753 Oct 19 j 02:56	29° $\underline{\Omega}$ 23'45	0°09'37	morning max el	754 Sep 01 j 10:39	23° Ω 54'22	17°52'32
minimum elong	753 Oct 19 j 04:05	29° $\underline{\Omega}$ 28'22	0°09'27		754 Sep 06 j 07:52	0° \mathbb{M}	
behind sun begin	753 Oct 18 j 19:27	28° $\underline{\Omega}$ 53'39		morning set	754 Sep 17 j 19:22	19° \mathbb{M} 18'00	
behind sun end	753 Oct 19 j 12:44	0° \mathbb{M} 03'01			754 Sep 23 j 22:03	0° $\underline{\Omega}$	
	753 Oct 19 j 11:59	0° \mathbb{M}					
desc. node	753 Oct 20 j 13:35	1° \mathbb{M} 42'22		superior conj	754 Sep 29 j 11:59	9° $\underline{\Omega}$ 29'51	0°51'41
max. Earth dist.	753 Oct 23 j 11:30	6° \mathbb{M} 20'12	1.44698 AU	minimum elong	754 Sep 29 j 16:33	9° $\underline{\Omega}$ 48'56	0°51'06
evening rise	753 Nov 04 j 12:30	25° \mathbb{M} 07'46		max. Earth dist.	754 Oct 06 j 03:12	20° $\underline{\Omega}$ 23'34	1.43630 AU
	753 Nov 07 j 16:23	0° \mathbb{X}		desc. node	754 Oct 07 j 10:37	22° $\underline{\Omega}$ 29'42	
greatest brilliancy	753 Nov 18 j 10:16	16° \mathbb{X} 17'28	-0.6m		754 Oct 12 j 04:24	0° \mathbb{M}	
	753 Nov 28 j 09:51	0° \mathbb{Z}		evening rise	754 Oct 14 j 19:56	4° \mathbb{M} 07'15	
evening max el	753 Nov 30 j 15:47	2° \mathbb{Z} 30'16	20°00'29		754 Nov 01 j 03:39	0° \mathbb{X}	
retrograde	753 Dec 08 j 07:09	6° \mathbb{Z} 58'43		evening max el	754 Nov 13 j 15:32	15° \mathbb{X} 59'30	21°06'53
asc. node	753 Dec 08 j 09:38	6° \mathbb{Z} 58'40		retrograde	754 Nov 22 j 04:46	21° \mathbb{X} 04'05	
evening set	753 Dec 11 j 22:39	5° \mathbb{Z} 41'04		asc. node	754 Nov 25 j 06:41	20° \mathbb{X} 10'48	
inferior conj	753 Dec 17 j 09:36	29° \mathbb{X} 38'30	2°43'49	evening set	754 Nov 26 j 06:06	19° \mathbb{X} 31'04	
minimum elong	753 Dec 17 j 06:53	29° \mathbb{X} 47'37	2°43'02	inferior conj	754 Dec 01 j 14:59	13° \mathbb{X} 18'12	2°03'00
	753 Dec 17 j 03:10	30° \mathbb{R} \mathbb{X}		minimum elong	754 Dec 01 j 12:34	13° \mathbb{X} 26'30	2°02'09
min. Earth dist.	753 Dec 18 j 06:56	28° \mathbb{X} 27'14	0.66849 AU	min. Earth dist.	754 Dec 02 j 00:13	12° \mathbb{X} 46'24	0.67460 AU
morning rise	753 Dec 22 j 14:54	23° \mathbb{X} 25'26		morning rise	754 Dec 06 j 18:52	7° \mathbb{X} 04'51	
direct	753 Dec 28 j 12:10	20° \mathbb{X} 48'34		direct	754 Dec 12 j 01:11	4° \mathbb{X} 47'20	
morning max el	754 Jan 09 j 08:28	27° \mathbb{X} 51'51	25°10'13	morning max el	754 Dec 22 j 17:04	11° \mathbb{X} 08'44	23°43'33
	754 Jan 11 j 09:10	0° \mathbb{Z}		desc. node	755 Jan 03 j 09:52	25° \mathbb{X} 22'50	
desc. node	754 Jan 16 j 12:48	6° \mathbb{Z} 04'59			755 Jan 06 j 17:32	0° \mathbb{Z}	
	754 Feb 02 j 06:15	0° \approx			755 Jan 26 j 01:08	0° \approx	
morning set	754 Feb 14 j 13:49	20° \approx 43'59		morning set	755 Jan 27 j 02:56	1° \approx 49'19	
max. Earth dist.	754 Feb 18 j 06:22	27° \approx 29'02	1.36673 AU	max. Earth dist.	755 Jan 31 j 01:19	8° \approx 38'35	1.38729 AU
	754 Feb 19 j 14:31	0° \mathbb{X}					
superior conj	754 Feb 24 j 10:18	9° \mathbb{X} 19'44	-1°29'43	superior conj	755 Feb 07 j 10:42	22° \approx 07'59	-1°49'47
minimum elong	754 Feb 24 j 14:15	9° \mathbb{X} 39'16	1°29'11	minimum elong	755 Feb 07 j 14:26	22° \approx 25'34	1°49'29
evening rise	754 Mar 04 j 16:44	25° \mathbb{X} 57'52			755 Feb 11 j 13:30	0° \mathbb{X}	
asc. node	754 Mar 06 j 08:58	29° \mathbb{X} 19'09		evening rise	755 Feb 16 j 13:09	9° \mathbb{X} 42'55	
	754 Mar 06 j 17:12	0° \mathbb{Y}		asc. node	755 Feb 21 j 06:01	18° \mathbb{X} 43'21	
evening max el	754 Mar 21 j 23:37	23° \mathbb{Y} 57'31	19°37'21		755 Feb 27 j 22:04	0° \mathbb{Y}	
retrograde	754 Mar 31 j 14:38	28° \mathbb{Y} 35'25		evening max el	755 Mar 04 j 22:41	6° \mathbb{Y} 09'57	18°47'26
evening set	754 Apr 02 j 16:51	28° \mathbb{Y} 23'16		retrograde	755 Mar 13 j 02:07	10° \mathbb{Y} 07'06	
inferior conj	754 Apr 11 j 07:59	24° \mathbb{Y} 19'24	0°53'46	evening set	755 Mar 15 j 09:12	9° \mathbb{Y} 49'29	
minimum elong	754 Apr 11 j 10:13	24° \mathbb{Y} 15'51	0°53'00	inferior conj	755 Mar 23 j 05:06	5° \mathbb{Y} 29'14	2°24'01
min. Earth dist.	754 Apr 13 j 19:27	22° \mathbb{Y} 45'32	0.55841 AU	minimum elong	755 Mar 23 j 09:19	5° \mathbb{Y} 21'27	2°22'53
desc. node	754 Apr 14 j 11:59	22° \mathbb{Y} 20'21		min. Earth dist.	755 Mar 26 j 12:18	3° \mathbb{Y} 04'44	0.57432 AU
morning rise	754 Apr 20 j 01:00	19° \mathbb{Y} 40'59		morning rise	755 Mar 31 j 06:22	0° \mathbb{Y} 17'44	
direct	754 Apr 24 j 10:18	18° \mathbb{Y} 57'50			755 Mar 31 j 23:33	30° \mathbb{R} \mathbb{X}	
morning max el	754 May 08 j 10:58	26° \mathbb{Y} 00'53	24°37'59	desc. node	755 Apr 01 j 09:03	29° \mathbb{X} 51'11	
	754 May 12 j 05:31	0° \mathbb{B}		direct	755 Apr 05 j 18:20	29° \mathbb{X} 03'49	
	754 May 30 j 22:10	0° \mathbb{I}			755 Apr 10 j 14:27	0° \mathbb{Y}	
asc. node	754 Jun 02 j 08:14	4° \mathbb{I} 58'09		morning max el	755 Apr 20 j 02:29	6° \mathbb{Y} 34'28	26°08'55
morning set	754 Jun 03 j 00:07	6° \mathbb{I} 21'33			755 May 07 j 09:07	0° \mathbb{B}	
				morning set	755 May 18 j 11:25	21° \mathbb{B} 16'51	
superior conj	754 Jun 10 j 00:07	21° \mathbb{I} 28'26	1°13'04	asc. node	755 May 20 j 05:17	24° \mathbb{B} 59'23	
minimum elong	754 Jun 09 j 21:41	21° \mathbb{I} 15'11	1°12'41		755 May 22 j 12:48	0° \mathbb{I}	
max. Earth dist.	754 Jun 11 j 13:28	24° \mathbb{I} 50'41	1.32987 AU	superior conj	755 May 25 j 11:22	6° \mathbb{I} 26'42	0°53'02
	754 Jun 13 j 23:19	0° \mathbb{B}		minimum elong	755 May 25 j 09:18	6° \mathbb{I} 15'21	0°52'38
evening rise	754 Jun 17 j 06:22	6° \mathbb{B} 50'50		max. Earth dist.	755 May 25 j 23:55	7° \mathbb{I} 35'33	1.32440 AU
	754 Jun 29 j 18:12	0° Ω		evening rise	755 Jun 01 j 11:12	21° \mathbb{I} 30'10	




























































































































	755 Jun 05 j 16:07	0°☿			756 May 28 j 07:23	0°☿	
	755 Jun 23 j 23:15	0°♌		evening max el	756 Jun 13 j 07:42	21°☿12'08	26°04'24
desc. node	755 Jun 28 j 08:19	5°♌21'50		desc. node	756 Jun 14 j 05:20	22°☿02'23	
evening max el	755 Jul 02 j 08:43	9°♌33'35	27°00'52	retrograde	756 Jun 27 j 08:17	28°☿23'44	
retrograde	755 Jul 16 j 07:03	16°♌49'19		evening set	756 Jul 03 j 14:34	26°☿48'27	
evening set	755 Jul 23 j 06:48	14°♌38'33		min. Earth dist.	756 Jul 07 j 20:24	24°☿10'36	0.59036 AU
min. Earth dist.	755 Jul 26 j 22:55	11°♌57'08	0.61092 AU	inferior conj	756 Jul 11 j 03:54	21°☿41'39	-4°49'07
inferior conj	755 Jul 30 j 03:39	9°♌11'28	-4°27'11	minimum elong	756 Jul 11 j 05:10	21°☿39'14	4°49'04
minimum elong	755 Jul 30 j 07:53	9°♌02'19	4°26'30	morning rise	756 Jul 18 j 21:59	17°☿13'42	
morning rise	755 Aug 06 j 10:41	4°♌21'00		direct	756 Jul 21 j 09:54	16°☿52'37	
direct	755 Aug 08 j 21:27	3°♌56'48		morning max el	756 Jul 29 j 08:28	20°☿40'25	18°30'06
morning max el	755 Aug 16 j 00:16	7°♌28'34	18°01'19	asc. node	756 Aug 02 j 01:33	24°☿56'22	
asc. node	755 Aug 16 j 04:30	7°♌38'56			756 Aug 05 j 11:31	0°♌	
	755 Aug 30 j 12:22	0°♍		morning set	756 Aug 14 j 12:07	16°♌23'56	
morning set	755 Aug 31 j 21:23	2°♍32'20			756 Aug 21 j 14:25	0°♍	
superior conj	755 Sep 11 j 00:06	20°♍55'28	1°21'39	superior conj	756 Aug 23 j 11:06	3°♍29'10	1°39'14
minimum elong	755 Sep 11 j 04:32	21°♍14'59	1°21'11	minimum elong	756 Aug 23 j 13:44	3°♍41'20	1°39'05
	755 Sep 16 j 06:06	0°♎		max. Earth dist.	756 Aug 30 j 19:50	16°♍44'06	1.40080 AU
max. Earth dist.	755 Sep 18 j 13:56	3°♎54'19	1.42023 AU	evening rise	756 Sep 04 j 03:05	24°♍03'58	
desc. node	755 Sep 24 j 07:37	13°♎15'09			756 Sep 07 j 17:47	0°♎	
evening rise	755 Sep 24 j 12:37	13°♎35'05		desc. node	756 Sep 10 j 04:38	3°♎55'14	
	755 Oct 05 j 04:22	0°♏			756 Sep 28 j 00:55	0°♏	
evening max el	755 Oct 27 j 09:48	29°♏29'56	22°22'46	evening max el	756 Oct 08 j 23:51	13°♏03'07	23°42'47
	755 Oct 27 j 21:51	0°♐		retrograde	756 Oct 19 j 17:06	19°♏22'12	
retrograde	755 Nov 06 j 00:31	5°♐12'50		evening set	756 Oct 24 j 19:51	17°♏14'32	
evening set	755 Nov 10 j 13:42	3°♐22'55		asc. node	756 Oct 29 j 00:47	12°♏28'08	
asc. node	755 Nov 12 j 03:44	1°♐52'22		min. Earth dist.	756 Oct 29 j 16:53	11°♏33'41	0.67656 AU
	755 Nov 13 j 17:41	30°♑♏		inferior conj	756 Oct 30 j 05:06	10°♏52'04	0°24'22
inferior conj	755 Nov 15 j 22:05	27°♏03'22	1°16'01	minimum elong	756 Oct 30 j 04:31	10°♏54'02	0°24'07
minimum elong	755 Nov 15 j 20:25	27°♏09'09	1°15'22	morning rise	756 Nov 04 j 13:09	4°♏44'56	
min. Earth dist.	755 Nov 15 j 20:22	27°♏09'20	0.67722 AU	direct	756 Nov 08 j 14:32	3°♏12'13	
morning rise	755 Nov 21 j 02:58	20°♏51'55		morning max el	756 Nov 16 j 21:48	8°♏01'44	20°55'37
direct	755 Nov 25 j 18:19	18°♏56'49			756 Dec 03 j 13:32	0°♐	
morning max el	755 Dec 05 j 04:20	24°♏30'34	22°16'07	desc. node	756 Dec 07 j 03:55	5°♐20'53	
	755 Dec 10 j 01:13	0°♑		morning set	756 Dec 16 j 17:19	19°♐58'44	
desc. node	755 Dec 21 j 06:54	15°♑11'02			756 Dec 23 j 01:03	0°♑	
	755 Dec 31 j 04:49	0°♒		max. Earth dist.	756 Dec 25 j 02:22	3°♑19'28	1.42766 AU
morning set	756 Jan 07 j 11:31	11°♑30'52		superior conj	757 Jan 01 j 00:48	14°♑49'57	-2°00'50
max. Earth dist.	756 Jan 12 j 22:09	20°♑30'27	1.40858 AU	minimum elong	756 Dec 31 j 22:08	14°♑38'39	2°00'45
	756 Jan 18 j 10:35	0°♓			757 Jan 09 j 18:34	0°♓	
superior conj	756 Jan 20 j 17:23	4°♓02'41	-2°01'40	evening rise	757 Jan 12 j 18:21	5°♓19'35	
minimum elong	756 Jan 20 j 19:03	4°♓10'09	2°01'38	asc. node	757 Jan 25 j 00:05	26°♓06'48	
evening rise	756 Jan 30 j 23:01	22°♓53'11			757 Jan 27 j 21:55	0°♔	
	756 Feb 03 j 18:49	0°♕		evening max el	757 Jan 29 j 16:27	1°♔56'42	18°07'31
asc. node	756 Feb 08 j 03:03	7°♕42'12		retrograde	757 Feb 05 j 06:51	5°♔21'13	
evening max el	756 Feb 16 j 05:24	18°♕53'07	18°17'37	evening set	757 Feb 08 j 00:22	4°♔46'04	
retrograde	756 Feb 23 j 08:30	22°♕26'02			757 Feb 14 j 05:50	30°♕♓	
evening set	756 Feb 25 j 21:12	22°♕00'17		inferior conj	757 Feb 14 j 12:25	29°♓43'47	3°44'24
inferior conj	756 Mar 03 j 23:24	17°♕19'15	3°19'29	minimum elong	757 Feb 14 j 13:28	29°♓41'10	3°44'20
minimum elong	756 Mar 04 j 02:35	17°♕12'24	3°18'57	min. Earth dist.	757 Feb 17 j 13:37	26°♓44'04	0.61573 AU
min. Earth dist.	756 Mar 07 j 09:24	14°♕24'41	0.59460 AU	morning rise	757 Feb 21 j 01:10	23°♓50'34	
morning rise	756 Mar 11 j 05:39	11°♕42'27		direct	757 Feb 27 j 22:33	21°♓26'07	
direct	756 Mar 17 j 15:21	9°♕51'12		desc. node	757 Mar 05 j 03:07	22°♓39'30	
desc. node	756 Mar 18 j 06:05	9°♕52'12		morning max el	757 Mar 14 j 01:42	29°♓18'10	27°46'16
morning max el	756 Mar 31 j 22:55	17°♕36'12	27°14'52		757 Mar 14 j 18:20	0°♕	
	756 Apr 11 j 06:16	0°♖			757 Apr 05 j 03:44	0°♖	
	756 Apr 28 j 21:03	0°♗		morning set	757 Apr 16 j 01:06	20°♖35'41	
morning set	756 May 01 j 20:24	6°♗04'06			757 Apr 20 j 12:34	0°♗	
asc. node	756 May 06 j 02:19	15°♗07'43		max. Earth dist.	757 Apr 21 j 23:26	3°♗08'09	1.32479 AU
				asc. node	757 Apr 22 j 23:21	5°♗18'06	
superior conj	756 May 08 j 23:08	21°♗24'17	0°29'57	superior conj	757 Apr 23 j 09:40	6°♗14'18	0°04'34
minimum elong	756 May 08 j 21:50	21°♗17'10	0°29'40	minimum elong	757 Apr 23 j 09:27	6°♗13'09	0°04'31
max. Earth dist.	756 May 08 j 12:34	20°♗26'16	1.32273 AU	behind sun begin	757 Apr 23 j 04:32	5°♗46'21	
	756 May 12 j 21:18	0°♘		behind sun end	757 Apr 23 j 14:22	6°♗39'59	
evening rise	756 May 15 j 20:23	6°♘20'55					

evening rise	757 Apr 30 j 07:45	21°♄14'41		asc. node	758 Apr 09 j 20:24	25°♄26'42	
	757 May 04 j 13:57	0°♄			758 Apr 11 j 23:04	0°♄	
	757 May 23 j 22:07	0°♄		evening rise	758 Apr 14 j 19:30	6°♄05'16	
evening max el	757 May 26 j 00:00	2°♄07'06	24°42'08		758 Apr 27 j 14:39	0°♄	
desc. node	757 Jun 01 j 02:22	6°♄51'06		evening max el	758 May 07 j 14:12	12°♄39'32	23°07'17
retrograde	757 Jun 08 j 22:39	9°♄10'51		desc. node	758 May 18 j 23:23	19°♄11'59	
evening set	757 Jun 13 j 22:56	8°♄14'02		retrograde	758 May 21 j 00:55	19°♄21'40	
min. Earth dist.	757 Jun 19 j 11:18	5°♄22'17	0.57106 AU	evening set	758 May 24 j 13:49	18°♄54'12	
inferior conj	757 Jun 22 j 08:24	3°♄29'54	-4°40'03	min. Earth dist.	758 May 31 j 23:41	15°♄34'43	0.55644 AU
minimum elong	757 Jun 22 j 04:51	3°♄35'44	4°39'43	inferior conj	758 Jun 02 j 17:20	14°♄33'58	-3°47'31
	757 Jun 28 j 15:06	30°♄		minimum elong	758 Jun 02 j 10:01	14°♄44'40	3°45'49
morning rise	757 Jun 30 j 13:30	29°♄23'13		morning rise	758 Jun 11 j 08:51	10°♄40'10	
direct	757 Jul 03 j 04:05	29°♄04'08		direct	758 Jun 14 j 03:08	10°♄21'56	
	757 Jul 07 j 11:33	0°♄		morning max el	758 Jun 24 j 21:30	15°♄20'52	20°30'44
morning max el	757 Jul 12 j 08:16	3°♄20'26	19°19'58		758 Jul 05 j 17:47	0°♄	
asc. node	757 Jul 19 j 22:34	13°♄05'21		asc. node	758 Jul 06 j 19:36	1°♄54'00	
morning set	757 Jul 29 j 11:44	0°♄42'12		morning set	758 Jul 13 j 17:24	15°♄19'17	
	757 Jul 29 j 03:15	0°♄			758 Jul 20 j 20:27	0°♄	
superior conj	757 Aug 06 j 15:21	16°♄54'55	1°46'16	superior conj	758 Jul 21 j 07:54	0°♄58'18	1°44'46
minimum elong	757 Aug 06 j 15:56	16°♄57'47	1°46'16	minimum elong	758 Jul 21 j 06:53	0°♄53'07	1°44'45
max. Earth dist.	757 Aug 12 j 23:18	28°♄54'25	1.38047 AU	max. Earth dist.	758 Jul 26 j 05:43	10°♄44'04	1.36175 AU
	757 Aug 13 j 13:39	0°♄		evening rise	758 Jul 30 j 06:11	18°♄21'08	
evening rise	757 Aug 16 j 17:59	5°♄41'45			758 Aug 05 j 19:33	0°♄	
desc. node	757 Aug 28 j 01:39	24°♄25'44		desc. node	758 Aug 14 j 22:41	14°♄40'57	
	757 Aug 31 j 17:21	0°♄			758 Aug 25 j 21:47	0°♄	
evening max el	757 Sep 21 j 11:45	26°♄39'47	25°00'24	evening max el	758 Sep 03 j 23:22	10°♄17'24	26°08'13
	757 Sep 25 j 06:02	0°♄		retrograde	758 Sep 16 j 13:33	17°♄26'05	
retrograde	757 Oct 03 j 05:39	3°♄28'40		evening set	758 Sep 22 j 20:55	14°♄48'13	
evening set	757 Oct 08 j 22:53	1°♄04'10		min. Earth dist.	758 Sep 27 j 01:49	10°♄18'01	0.66526 AU
	757 Oct 10 j 02:12	30°♄		inferior conj	758 Sep 28 j 11:59	8°♄31'51	-1°27'22
min. Earth dist.	757 Oct 13 j 11:29	25°♄57'50	0.67259 AU	minimum elong	758 Sep 28 j 14:14	8°♄24'50	1°26'26
inferior conj	757 Oct 14 j 10:21	24°♄42'42	-0°30'35	asc. node	758 Oct 02 j 18:50	3°♄48'36	
minimum elong	757 Oct 14 j 11:07	24°♄40'11	0°30'15	morning rise	758 Oct 04 j 07:56	2°♄41'05	
asc. node	757 Oct 15 j 21:48	22°♄48'12		direct	758 Oct 07 j 10:52	1°♄45'19	
morning rise	757 Oct 19 j 23:29	18°♄42'23		morning max el	758 Oct 14 j 07:30	5°♄34'51	18°53'32
direct	757 Oct 23 j 12:34	17°♄29'53			758 Oct 31 j 12:08	0°♄	
morning max el	757 Oct 30 j 23:07	21°♄44'17	19°47'12	morning set	758 Nov 05 j 01:40	7°♄11'06	
	757 Nov 06 j 17:41	0°♄		desc. node	758 Nov 10 j 21:57	16°♄22'56	
desc. node	757 Nov 24 j 00:55	25°♄46'37			758 Nov 19 j 14:04	0°♄	
morning set	757 Nov 25 j 13:52	28°♄09'09		max. Earth dist.	758 Nov 20 j 06:38	1°♄05'09	1.44964 AU
	757 Nov 26 j 18:31	0°♄					
max. Earth dist.	757 Dec 07 j 14:04	16°♄57'18	1.44190 AU	superior conj	758 Nov 21 j 12:11	3°♄01'23	-1°06'19
				minimum elong	758 Nov 21 j 04:20	2°♄30'30	1°05'24
superior conj	757 Dec 12 j 05:34	24°♄24'13	-1°42'44	evening rise	758 Dec 06 j 20:58	27°♄32'06	
minimum elong	757 Dec 11 j 22:05	23°♄53'58	1°42'08		758 Dec 08 j 09:29	0°♄	
	757 Dec 15 j 16:05	0°♄		evening max el	758 Dec 27 j 16:22	28°♄38'03	18°43'55
evening rise	757 Dec 25 j 18:58	16°♄54'51			758 Dec 29 j 03:11	0°♄	
	758 Jan 02 j 12:39	0°♄		asc. node	758 Dec 29 j 18:09	0°♄30'25	
asc. node	758 Jan 11 j 21:07	13°♄47'13		retrograde	759 Jan 03 j 09:14	2°♄23'09	
evening max el	758 Jan 13 j 04:58	15°♄13'43	18°16'34	evening set	759 Jan 06 j 12:58	1°♄26'31	
retrograde	758 Jan 19 j 16:30	18°♄43'04			759 Jan 08 j 10:56	30°♄	
evening set	758 Jan 22 j 14:44	17°♄57'42		inferior conj	759 Jan 12 j 07:00	25°♄46'52	3°31'08
inferior conj	758 Jan 28 j 16:15	12°♄35'41	3°46'10	minimum elong	759 Jan 12 j 04:52	25°♄53'19	3°30'49
minimum elong	758 Jan 28 j 15:23	12°♄38'05	3°46'07	min. Earth dist.	759 Jan 14 j 02:40	23°♄34'13	0.65117 AU
min. Earth dist.	758 Jan 31 j 03:19	9°♄52'16	0.63509 AU	morning rise	759 Jan 17 j 20:22	19°♄38'00	
morning rise	758 Feb 03 j 15:17	6°♄32'32		direct	759 Jan 24 j 13:13	16°♄45'41	
direct	758 Feb 10 j 14:15	3°♄46'49		desc. node	759 Feb 06 j 21:10	24°♄35'16	
desc. node	758 Feb 20 j 00:09	7°♄45'57		morning max el	759 Feb 06 j 19:07	24°♄30'05	27°01'05
morning max el	758 Feb 24 j 09:25	11°♄39'54	27°40'28		759 Feb 11 j 18:49	0°♄	
	758 Mar 10 j 22:47	0°♄		morning set	759 Mar 04 j 08:27	0°♄	
	758 Mar 28 j 13:18	0°♄		max. Earth dist.	759 Mar 14 j 11:38	18°♄19'40	
morning set	758 Mar 30 j 23:13	4°♄44'13			759 Mar 18 j 23:47	27°♄14'17	1.34119 AU
max. Earth dist.	758 Apr 05 j 04:30	15°♄27'55	1.33082 AU		759 Mar 20 j 08:18	0°♄	
superior conj	758 Apr 07 j 17:15	20°♄51'17	-0°22'21	superior conj	759 Mar 22 j 19:52	5°♄08'45	-0°49'38
minimum elong	758 Apr 07 j 18:20	20°♄57'06	0°22'06	minimum elong	759 Mar 22 j 22:18	5°♄21'28	0°49'09

asc. node	759 Mar 27 j 17:28	15°♄29'20		760 Mar 11 j 00:01	0°♄	
evening rise	759 Mar 30 j 05:46	20°♄46'18		evening rise	760 Mar 13 j 12:34	5°♄11'14
	759 Apr 03 j 19:08	0°♄		asc. node	760 Mar 13 j 14:32	5°♄21'13
evening max el	759 Apr 19 j 09:50	23°♄21'16	21°34'44		760 Mar 27 j 15:28	0°♄
retrograde	759 May 01 j 16:36	29°♄21'05		evening max el	760 Mar 31 j 15:55	4°♄34'24 20°15'03
evening set	759 May 04 j 03:23	29°♄07'30		retrograde	760 Apr 11 j 06:19	9°♄40'47
desc. node	759 May 05 j 20:24	28°♄42'53		evening set	760 Apr 13 j 08:17	9°♄29'50
inferior conj	759 May 13 j 13:16	25°♄06'04	-2°10'35	desc. node	760 Apr 21 j 17:27	5°♄54'51
minimum elong	759 May 13 j 07:21	25°♄14'22	2°08'36	inferior conj	760 Apr 22 j 09:13	5°♄31'38 -0°11'22
min. Earth dist.	759 May 13 j 12:22	25°♄07'19	0.54972 AU	minimum elong	760 Apr 22 j 08:41	5°♄32'25 0°11'11
morning rise	759 May 22 j 12:04	21°♄08'34		transit middle	760 Apr 22 j 08:41	5°♄32'25 0°11'11
direct	759 May 25 j 14:26	20°♄47'31		transit begin	760 Apr 22 j 05:49	5°♄36'38
morning max el	759 Jun 06 j 23:40	26°♄38'39	21°59'44	transit end	760 Apr 22 j 11:33	5°♄28'11
	759 Jun 10 j 04:57	0°♄		min. Earth dist.	760 Apr 24 j 01:52	4°♄31'39 0.55262 AU
asc. node	759 Jun 23 j 16:41	21°♄12'45		morning rise	760 May 01 j 07:27	1°♄12'05
morning set	759 Jun 28 j 02:58	0°♄09'26		direct	760 May 05 j 03:10	0°♄40'17
	759 Jun 28 j 01:09	0°♄		morning max el	760 May 18 j 17:11	7°♄20'20 23°39'57
					760 Jun 03 j 22:58	0°♄
superior conj	759 Jul 05 j 09:04	15°♄28'24	1°36'32	asc. node	760 Jun 09 j 13:45	10°♄52'58
minimum elong	759 Jul 05 j 07:02	15°♄17'44	1°36'22	morning set	760 Jun 11 j 14:31	15°♄06'01
max. Earth dist.	759 Jul 08 j 20:26	22°♄40'29	1.34633 AU			
	759 Jul 12 j 12:19	0°♄		superior conj	760 Jun 18 j 15:51	0°♄15'02 1°22'56
evening rise	759 Jul 13 j 10:58	1°♄50'07		minimum elong	760 Jun 18 j 13:25	0°♄01'53 1°22'36
	759 Jul 29 j 18:11	0°♄			760 Jun 18 j 13:04	0°♄
desc. node	759 Aug 01 j 19:44	4°♄34'02		max. Earth dist.	760 Jun 20 j 20:44	4°♄57'50 1.33480 AU
evening max el	759 Aug 17 j 11:28	23°♄50'14	26°58'25	evening rise	760 Jun 26 j 03:47	15°♄54'41
	759 Aug 25 j 21:49	0°♄			760 Jul 03 j 13:41	0°♄
retrograde	759 Aug 30 j 16:09	1°♄07'53		desc. node	760 Jul 18 j 16:46	23°♄54'37
	759 Sep 04 j 01:58	30°♄			760 Jul 23 j 10:09	0°♄
evening set	759 Sep 06 j 11:42	28°♄23'18		evening max el	760 Jul 29 j 22:56	7°♄06'35 27°23'48
min. Earth dist.	759 Sep 10 j 09:36	24°♄29'49	0.65446 AU	retrograde	760 Aug 12 j 12:47	14°♄25'13
inferior conj	759 Sep 12 j 07:59	22°♄16'15	-2°24'05	evening set	760 Aug 19 j 16:20	11°♄43'38
minimum elong	759 Sep 12 j 11:41	22°♄05'35	2°22'42	min. Earth dist.	760 Aug 23 j 08:34	8°♄24'53 0.64009 AU
morning rise	759 Sep 18 j 12:19	16°♄38'02		inferior conj	760 Aug 25 j 19:51	5°♄49'57 -3°18'08
asc. node	759 Sep 19 j 15:52	16°♄10'11		minimum elong	760 Aug 26 j 00:37	5°♄37'27 3°16'40
direct	759 Sep 21 j 07:31	15°♄55'12		morning rise	760 Sep 01 j 09:54	0°♄27'41
morning max el	759 Sep 27 j 20:53	19°♄28'55	18°16'07		760 Sep 02 j 22:15	30°♄
	759 Oct 05 j 19:24	0°♄		direct	760 Sep 03 j 23:54	29°♄54'12
morning set	759 Oct 16 j 17:44	17°♄38'17			760 Sep 05 j 01:30	0°♄
	759 Oct 24 j 08:24	0°♄		asc. node	760 Sep 05 j 12:56	0°♄06'19
desc. node	759 Oct 28 j 19:01	7°♄06'17		morning max el	760 Sep 10 j 12:38	3°♄20'22 17°55'57
				morning set	760 Sep 27 j 12:59	29°♄24'25
					760 Sep 27 j 21:16	0°♄
superior conj	759 Oct 31 j 13:55	11°♄31'32	-0°18'25			
minimum elong	759 Oct 31 j 11:32	11°♄22'05	0°18'04	superior conj	760 Oct 10 j 07:52	20°♄52'14 0°28'46
max. Earth dist.	759 Nov 03 j 01:17	15°♄25'37	1.45009 AU	minimum elong	760 Oct 10 j 10:58	21°♄04'52 0°28'20
	759 Nov 12 j 08:39	0°♄		desc. node	760 Oct 14 j 16:04	27°♄53'03
evening rise	759 Nov 16 j 23:42	7°♄13'20			760 Oct 15 j 23:53	0°♄
greatest brilliancy	759 Nov 28 j 15:23	25°♄17'48	-0.7m	max. Earth dist.	760 Oct 15 j 19:20	29°♄41'52 1.44325 AU
	759 Dec 01 j 18:30	0°♄		evening rise	760 Oct 26 j 09:56	16°♄17'35
evening max el	759 Dec 11 j 00:28	12°♄06'14	19°28'12		760 Nov 04 j 09:58	0°♄
asc. node	759 Dec 16 j 15:11	16°♄02'01		evening max el	760 Nov 23 j 03:36	25°♄35'46 20°27'21
retrograde	759 Dec 18 j 05:44	16°♄16'19			760 Nov 29 j 06:37	0°♄
evening set	759 Dec 21 j 16:27	15°♄06'51		retrograde	760 Dec 01 j 03:29	0°♄18'30
inferior conj	759 Dec 27 j 05:25	9°♄12'03	3°03'50	asc. node	760 Dec 02 j 12:13	0°♄07'59
minimum elong	759 Dec 27 j 02:44	9°♄20'46	3°03'12		760 Dec 02 j 22:46	30°♄
min. Earth dist.	759 Dec 28 j 10:31	7°♄37'33	0.66336 AU	evening set	760 Dec 04 j 23:00	28°♄54'27
morning rise	760 Jan 01 j 12:46	3°♄00'04		inferior conj	760 Dec 10 j 08:53	22°♄47'17 2°27'21
direct	760 Jan 07 j 18:12	0°♄14'30		minimum elong	760 Dec 10 j 06:14	22°♄56'17 2°26'31
morning max el	760 Jan 20 j 04:21	7°♄36'27	25°55'44	min. Earth dist.	760 Dec 11 j 00:54	21°♄52'59 0.67157 AU
desc. node	760 Jan 24 j 18:13	12°♄38'14		morning rise	760 Dec 15 j 13:17	16°♄34'07
	760 Feb 06 j 16:05	0°♄		direct	760 Dec 21 j 04:24	14°♄04'50
	760 Feb 24 j 19:05	0°♄		morning max el	761 Jan 01 j 12:46	20°♄50'45 24°34'05
morning set	760 Feb 25 j 10:09	1°♄09'15			761 Jan 09 j 10:22	0°♄
max. Earth dist.	760 Feb 29 j 07:14	8°♄28'02	1.35621 AU	desc. node	761 Jan 10 j 15:16	1°♄33'27
					761 Jan 29 j 21:25	0°♄
superior conj	760 Mar 05 j 15:01	18°♄59'10	-1°15'52	morning set	761 Feb 06 j 13:19	12°♄57'45
minimum elong	760 Mar 05 j 18:35	19°♄17'10	1°15'18			

max. Earth dist.	761 Feb 10 j 05:20	19° \approx 31'22	1.37525 AU	max. Earth dist.	762 Jan 23 j 00:39	0° \approx 57'37	1.39645 AU
	761 Feb 15 j 19:44	0° H					
superior conj	761 Feb 16 j 23:29	2° H 13'47	-1°38'58	superior conj	762 Jan 30 j 16:57	14° \approx 40'33	-1°56'05
minimum elong	761 Feb 17 j 03:31	2° H 33'18	1°38'31	minimum elong	762 Jan 30 j 20:05	14° \approx 55'00	1°55'54
evening rise	761 Feb 25 j 13:37	19° H 13'39		evening rise	762 Feb 07 j 19:34	0° H	
asc. node	761 Feb 28 j 11:35	24° H 57'35		asc. node	762 Feb 09 j 05:58	2° H 45'05	
	761 Mar 03 j 03:24	0° Y		evening max el	762 Feb 15 j 08:36	14° H 11'56	
evening max el	761 Mar 14 j 09:17	16° Y 26'12	19°13'36		762 Feb 25 j 11:52	28° H 52'14	18°32'13
retrograde	761 Mar 23 j 07:42	20° Y 44'45			762 Feb 26 j 18:11	0° Y	
evening set	761 Mar 25 j 11:51	20° Y 30'33		retrograde	762 Mar 05 j 03:39	2° Y 37'26	
inferior conj	761 Apr 02 j 18:51	16° Y 20'20	1°36'08	evening set	762 Mar 07 j 13:05	2° Y 16'39	
minimum elong	761 Apr 02 j 22:24	16° Y 14'21	1°35'01		762 Mar 12 j 01:56	30° R H	
min. Earth dist.	761 Apr 05 j 16:49	14° Y 23'23	0.56447 AU	inferior conj	762 Mar 15 j 01:03	27° H 47'27	2°51'41
desc. node	761 Apr 08 j 14:28	12° Y 39'42		minimum elong	762 Mar 15 j 05:05	27° H 39'29	2°50'46
morning rise	761 Apr 11 j 06:03	11° Y 27'47		min. Earth dist.	762 Mar 18 j 11:03	25° H 07'22	0.58262 AU
direct	761 Apr 16 j 02:51	10° Y 33'07		morning rise	762 Mar 22 j 18:17	22° H 23'49	
morning max el	761 Apr 30 j 07:43	17° Y 48'50	25°18'50	desc. node	762 Mar 26 j 11:30	21° H 06'57	
	761 May 10 j 09:13	0° B		direct	762 Mar 28 j 16:16	20° H 54'32	
morning set	761 May 27 j 02:23	0° II 03'41		morning max el	762 Apr 12 j 01:08	28° H 32'23	26°40'48
asc. node	761 May 27 j 10:51	0° II 48'19			762 Apr 13 j 11:51	0° Y	
	761 May 27 j 01:42	0° II			762 May 03 j 23:42	0° B	
				morning set	762 May 11 j 12:56	14° B 56'26	
				asc. node	762 May 14 j 07:54	20° B 53'10	
					762 May 18 j 11:58	0° II	
superior conj	761 Jun 03 j 02:02	15° II 10'53	1°04'59	superior conj	762 May 18 j 13:41	0° II 09'27	0°43'34
minimum elong	761 Jun 02 j 23:41	14° II 58'08	1°04'35	minimum elong	762 May 18 j 11:54	29° B 59'39	0°43'12
max. Earth dist.	761 Jun 04 j 04:37	17° II 35'52	1.32716 AU	max. Earth dist.	762 May 18 j 16:30	0° II 24'56	1.32324 AU
evening rise	761 Jun 10 j 05:04	0° B 23'59		evening rise	762 May 25 j 12:00	15° II 08'48	
	761 Jun 10 j 00:25	0° B			762 Jun 02 j 00:03	0° B	
	761 Jun 26 j 14:31	0° O		desc. node	762 Jun 22 j 10:48	29° B 58'49	
desc. node	761 Jul 05 j 13:47	12° O 29'12			762 Jun 22 j 11:15	0° O	
evening max el	761 Jul 12 j 07:19	19° O 52'36	27°18'39	evening max el	762 Jun 24 j 09:59	1° O 56'49	26°40'29
retrograde	761 Jul 26 j 02:45	27° O 09'13		retrograde	762 Jul 08 j 09:23	9° O 11'22	
evening set	761 Aug 02 j 07:05	24° O 43'05		evening set	762 Jul 15 j 03:33	7° O 14'13	
min. Earth dist.	761 Aug 05 j 21:08	21° O 51'59	0.62236 AU	min. Earth dist.	762 Jul 18 j 23:29	4° O 36'51	0.60220 AU
inferior conj	761 Aug 08 j 20:37	19° O 05'52	-4°05'26	inferior conj	762 Jul 22 j 06:50	1° O 55'33	-4°39'25
minimum elong	761 Aug 09 j 01:30	18° O 54'28	4°04'21	minimum elong	762 Jul 22 j 10:06	1° O 48'52	4°39'04
morning rise	761 Aug 15 j 21:18	14° O 03'06			762 Jul 24 j 17:37	30° R B	
direct	761 Aug 18 j 08:39	13° O 36'07		morning rise	762 Jul 29 j 18:37	27° B 14'59	
asc. node	761 Aug 23 j 10:01	15° O 31'54		direct	762 Aug 01 j 05:40	26° B 52'18	
morning max el	761 Aug 25 j 03:53	17° O 02'53	17°53'55		762 Aug 08 j 03:06	0° O	
	761 Sep 03 j 08:14	0° M		morning max el	762 Aug 08 j 15:39	0° O 29'12	18°11'08
morning set	761 Sep 10 j 05:25	12° M 11'08		asc. node	762 Aug 10 j 07:05	2° O 13'19	
	761 Sep 20 j 07:02	0° O		morning set	762 Aug 24 j 13:23	25° O 42'53	
					762 Aug 26 j 19:59	0° M	
superior conj	761 Sep 21 j 04:34	1° O 32'19	1°06'00	superior conj	762 Sep 03 j 03:10	13° M 29'30	1°30'32
minimum elong	761 Sep 21 j 09:24	1° O 52'59	1°05'24	minimum elong	762 Sep 03 j 06:56	13° M 46'28	1°30'12
max. Earth dist.	761 Sep 28 j 09:37	13° O 34'53	1.43003 AU	max. Earth dist.	762 Sep 10 j 18:05	26° M 48'49	1.41217 AU
desc. node	761 Oct 01 j 13:05	18° O 39'46			762 Sep 12 j 15:38	0° O	
evening rise	761 Oct 05 j 19:09	25° O 23'23		evening rise	762 Sep 15 j 20:08	5° O 14'33	
	761 Oct 08 j 18:27	0° M		desc. node	762 Sep 18 j 10:06	9° O 23'35	
	761 Oct 29 j 10:22	0° J			762 Oct 02 j 00:37	0° M	
evening max el	761 Nov 06 j 00:52	9° J 05'01	21°38'17	evening max el	762 Oct 19 j 16:56	22° M 35'54	22°56'36
retrograde	761 Nov 15 j 00:27	14° J 25'41		retrograde	762 Oct 29 j 19:07	28° M 35'23	
evening set	761 Nov 19 j 06:42	12° J 45'22		evening set	762 Nov 03 j 13:53	26° M 37'46	
asc. node	761 Nov 19 j 09:15	12° J 40'14		asc. node	762 Nov 06 j 06:17	23° M 49'34	
inferior conj	761 Nov 24 j 15:10	6° J 29'08	1°43'44	inferior conj	762 Nov 08 j 22:27	20° M 16'13	0°54'38
minimum elong	761 Nov 24 j 13:02	6° J 36'32	1°42'56	minimum elong	762 Nov 08 j 21:12	20° M 20'30	0°54'06
min. Earth dist.	761 Nov 24 j 19:33	6° J 13'59	0.67611 AU	min. Earth dist.	762 Nov 08 j 16:10	20° M 37'52	0.67729 AU
morning rise	761 Nov 29 j 19:13	0° J 16'34		morning rise	762 Nov 14 j 04:25	14° M 06'16	
	761 Nov 30 j 03:07	30° R M		direct	762 Nov 18 j 13:33	12° M 21'04	
direct	761 Dec 04 j 19:04	28° M 08'39		morning max el	762 Nov 27 j 11:50	17° M 35'37	21°40'42
	761 Dec 10 j 00:28	0° J			762 Dec 07 j 14:53	0° J	
morning max el	761 Dec 14 j 22:09	4° J 09'36	23°06'05	desc. node	762 Dec 15 j 09:19	11° J 03'25	
desc. node	761 Dec 28 j 12:18	21° J 05'11			762 Dec 27 j 19:48	0° B	
	762 Jan 03 j 16:33	0° B					
morning set	762 Jan 18 j 14:43	23° B 28'06					
	762 Jan 22 j 11:18	0° \approx					

morning set	762 Dec 29 j 10:54	2°♄34'48			763 Dec 01 j 09:08	0°♄	
max. Earth dist.	763 Jan 05 j 00:01	13°♄12'24	1.41710 AU	desc. node	763 Dec 02 j 06:22	1°♄20'29	
				morning set	763 Dec 08 j 09:39	10°♄45'31	
superior conj	763 Jan 12 j 14:17	26°♄07'23	-2°03'10	max. Earth dist.	763 Dec 18 j 06:56	26°♄21'18	1.43440 AU
minimum elong	763 Jan 12 j 14:22	26°♄07'46	2°03'09		763 Dec 20 j 13:02	0°♄	
	763 Jan 14 j 19:11	0°♄					
evening rise	763 Jan 23 j 10:09	15°♄37'32		superior conj	763 Dec 24 j 10:30	6°♄23'27	-1°55'28
	763 Jan 31 j 10:34	0°♄		minimum elong	763 Dec 24 j 05:36	6°♄03'10	1°55'12
asc. node	763 Feb 02 j 05:37	2°♄57'14		evening rise	764 Jan 05 j 22:00	27°♄42'36	
evening max el	763 Feb 08 j 20:45	11°♄44'43	18°10'55		764 Jan 07 j 05:25	0°♄	
retrograde	763 Feb 15 j 17:20	15°♄12'32		asc. node	764 Jan 20 j 02:37	21°♄04'28	
evening set	763 Feb 18 j 08:00	14°♄43'04		evening max el	764 Jan 23 j 08:50	24°♄55'13	18°09'10
inferior conj	763 Feb 25 j 03:45	9°♄53'04	3°33'20	retrograde	764 Jan 29 j 20:52	28°♄20'03	
minimum elong	763 Feb 25 j 06:04	9°♄47'46	3°33'03	evening set	764 Feb 01 j 16:22	27°♄40'42	
min. Earth dist.	763 Feb 28 j 11:08	6°♄52'59	0.60364 AU	inferior conj	764 Feb 07 j 23:34	22°♄30'09	3°47'33
morning rise	763 Mar 04 j 02:09	4°♄07'58		minimum elong	764 Feb 07 j 23:44	22°♄29'42	3°47'32
direct	763 Mar 10 j 18:00	2°♄01'18		min. Earth dist.	764 Feb 10 j 19:16	19°♄34'52	0.62429 AU
desc. node	763 Mar 13 j 08:31	2°♄19'41		morning rise	764 Feb 14 j 05:59	16°♄32'13	
morning max el	763 Mar 25 j 00:26	9°♄50'59	27°32'43	direct	764 Feb 21 j 05:22	13°♄56'37	
	763 Apr 09 j 13:59	0°♄		desc. node	764 Feb 28 j 05:33	16°♄10'28	
morning set	763 Apr 25 j 20:21	29°♄37'57		morning max el	764 Mar 06 j 05:26	21°♄50'18	27°48'12
	763 Apr 26 j 00:36	0°♄			764 Mar 13 j 09:15	0°♄	
asc. node	763 May 01 j 04:55	11°♄02'51			764 Apr 01 j 16:01	0°♄	
max. Earth dist.	763 May 02 j 04:44	13°♄12'48	1.32308 AU	morning set	764 Apr 08 j 22:36	14°♄01'12	
				max. Earth dist.	764 Apr 14 j 13:29	25°♄46'35	1.32680 AU
superior conj	763 May 03 j 01:08	15°♄04'35	0°19'25				
minimum elong	763 May 03 j 00:16	14°♄59'49	0°19'14	superior conj	764 Apr 16 j 10:42	29°♄50'34	-0°06'44
evening rise	763 May 09 j 22:20	0°♄01'25		minimum elong	764 Apr 16 j 11:01	29°♄52'19	0°06'39
	763 May 09 j 22:04	0°♄		behind sun begin	764 Apr 16 j 06:17	29°♄26'41	
	763 May 26 j 10:12	0°♄		behind sun end	764 Apr 16 j 15:45	0°♄17'58	
evening max el	763 Jun 06 j 05:45	13°♄15'10	25°31'55		764 Apr 16 j 12:26	0°♄	
desc. node	763 Jun 09 j 07:49	15°♄56'10		asc. node	764 Apr 17 j 01:57	1°♄13'21	
retrograde	763 Jun 20 j 06:44	20°♄25'17		evening rise	764 Apr 23 j 10:07	14°♄55'12	
evening set	763 Jun 26 j 01:24	19°♄06'40			764 Apr 30 j 23:38	0°♄	
min. Earth dist.	763 Jun 30 j 17:53	16°♄24'43	0.58173 AU	evening max el	764 May 17 j 20:38	23°♄58'33	24°02'33
inferior conj	763 Jul 03 j 22:56	14°♄08'48	-4°49'56	desc. node	764 May 26 j 04:50	29°♄46'59	
minimum elong	763 Jul 03 j 22:18	14°♄09'56	4°49'55		764 May 26 j 18:08	0°♄	
morning rise	763 Jul 11 j 21:45	9°♄50'31		retrograde	764 May 31 j 16:05	0°♄54'58	
direct	763 Jul 14 j 10:27	9°♄30'35		evening set	764 Jun 05 j 00:58	0°♄12'40	
morning max el	763 Jul 22 j 20:43	13°♄29'09	18°48'44		764 Jun 05 j 16:03	30°♄	
asc. node	763 Jul 28 j 04:07	19°♄54'26		min. Earth dist.	764 Jun 11 j 07:39	27°♄10'26	0.56408 AU
	763 Aug 03 j 05:24	0°♄		inferior conj	764 Jun 13 j 18:57	25°♄38'51	-4°23'41
morning set	763 Aug 08 j 08:19	9°♄46'46		minimum elong	764 Jun 13 j 13:23	25°♄47'30	4°22'48
				morning rise	764 Jun 22 j 04:32	21°♄38'42	
superior conj	763 Aug 16 j 22:12	26°♄27'22	1°43'23	direct	764 Jun 24 j 20:28	21°♄20'10	
minimum elong	763 Aug 16 j 23:56	26°♄35'36	1°43'18	morning max el	764 Jul 04 j 16:13	25°♄53'26	19°47'28
	763 Aug 18 j 19:21	0°♄			764 Jul 08 j 10:01	0°♄	
max. Earth dist.	763 Aug 23 j 21:55	9°♄18'30	1.39205 AU	asc. node	764 Jul 14 j 01:11	8°♄21'58	
evening rise	763 Aug 27 j 21:10	16°♄13'12		morning set	764 Jul 22 j 10:51	24°♄14'05	
desc. node	763 Sep 05 j 07:08	0°♄00'10			764 Jul 25 j 07:06	0°♄	
	763 Sep 05 j 07:05	0°♄					
	763 Sep 26 j 15:29	0°♄		superior conj	764 Jul 30 j 08:14	10°♄10'35	1°46'33
evening max el	763 Oct 02 j 05:45	6°♄10'18	24°16'32	minimum elong	764 Jul 30 j 08:04	10°♄09'47	1°46'33
retrograde	763 Oct 13 j 10:12	12°♄43'41		max. Earth dist.	764 Aug 05 j 01:57	21°♄16'58	1.37227 AU
evening set	763 Oct 18 j 18:54	10°♄28'48		evening rise	764 Aug 08 j 21:47	28°♄19'03	
min. Earth dist.	763 Oct 23 j 12:17	5°♄02'07	0.67524 AU		764 Aug 09 j 20:21	0°♄	
inferior conj	763 Oct 24 j 04:56	4°♄06'03	0°01'24	desc. node	764 Aug 22 j 04:10	20°♄24'48	
minimum elong	763 Oct 24 j 04:54	4°♄06'10	0°01'22		764 Aug 28 j 15:35	0°♄	
transit middle	763 Oct 24 j 04:54	4°♄06'10	0°01'22	evening max el	764 Sep 13 j 17:34	19°♄48'25	25°30'57
transit begin	763 Oct 24 j 02:10	4°♄15'21		retrograde	764 Sep 25 j 20:45	26°♄46'31	
transit end	763 Oct 24 j 07:37	3°♄57'00		evening set	764 Oct 01 j 20:03	24°♄16'04	
asc. node	763 Oct 24 j 03:19	4°♄11'30		min. Earth dist.	764 Oct 06 j 05:26	19°♄24'43	0.66993 AU
	763 Oct 27 j 11:18	30°♄		inferior conj	764 Oct 07 j 08:53	17°♄56'22	-0°54'32
morning rise	763 Oct 29 j 14:53	28°♄01'13		minimum elong	764 Oct 07 j 10:17	17°♄51'54	0°53'57
direct	763 Nov 02 j 10:46	26°♄37'27		asc. node	764 Oct 10 j 00:22	14°♄42'01	
	763 Nov 09 j 02:49	0°♄		morning rise	764 Oct 13 j 00:42	11°♄59'31	
morning max el	763 Nov 10 j 08:31	1°♄11'13	20°24'45	direct	764 Oct 16 j 09:16	10°♄54'25	

morning max el	764 Oct 23 j 12:54	14°  56'52	19°22'21	direct	765 Sep 30 j 07:13	25°  08'17	
	764 Nov 03 j 22:05	0°  11		morning max el	765 Oct 06 j 23:45	28°  49'35	18°35'35
morning set	764 Nov 16 j 09:59	19°  10'05			765 Oct 08 j 02:14	0°  11	
desc. node	764 Nov 18 j 03:24	21°  11'51'02		morning set	765 Oct 27 j 09:22	28°  47'52	
	764 Nov 23 j 08:50	0°  17			765 Oct 28 j 03:26	0°  11	
max. Earth dist.	764 Nov 29 j 21:09	10°  14'13	1.44610 AU	desc. node	765 Nov 05 j 00:28	12°  11'30'53	
superior conj	764 Dec 03 j 04:33	15°  12'29'16	-1°29'19	superior conj	765 Nov 12 j 06:22	23°  11'55'38	-0°46'42
minimum elong	764 Dec 02 j 20:05	14°  12'55'32	1°28'30	minimum elong	765 Nov 12 j 00:23	23°  11'32'07	0°45'55
	764 Dec 12 j 04:11	0°  11		max. Earth dist.	765 Nov 12 j 15:43	24°  11'32'20	1.45077 AU
evening rise	764 Dec 17 j 13:17	8°  35'25'58			765 Nov 16 j 03:07	0°  17	
	764 Dec 30 j 12:22	0°  11		evening rise	765 Nov 28 j 05:14	19°  12'06'03	
asc. node	765 Jan 05 j 23:40	8°  12'22'03			765 Dec 05 j 01:42	0°  11	
evening max el	765 Jan 05 j 21:13	8°  15'52	18°26'07	greatest brilliancy	765 Dec 06 j 19:21	2°  34'43'35	-0.8m
retrograde	765 Jan 12 j 09:54	11°  15'50'19		evening max el	765 Dec 20 j 07:28	21°  34'42'14	19°00'45
evening set	765 Jan 15 j 10:27	11°  15'00'08		asc. node	765 Dec 23 j 20:42	24°  34'36'51	
inferior conj	765 Jan 21 j 08:26	5°  15'30'21	3°41'31	retrograde	765 Dec 27 j 04:41	25°  34'36'54	
minimum elong	765 Jan 21 j 06:57	5°  15'34'39	3°41'22	evening set	765 Dec 30 j 11:15	24°  34'34'50	
min. Earth dist.	765 Jan 23 j 12:55	2°  15'58'56	0.64240 AU	inferior conj	766 Jan 05 j 02:49	18°  34'48'08	3°20'50
	765 Jan 26 j 10:35	30°  15'11'33		minimum elong	766 Jan 05 j 00:23	18°  34'55'47	3°20'23
morning rise	765 Jan 27 j 02:54	29°  15'33'44		min. Earth dist.	766 Jan 06 j 16:01	16°  34'51'30	0.65683 AU
direct	765 Feb 03 j 00:12	26°  15'34'29		morning rise	766 Jan 10 j 13:14	12°  34'37'43	
	765 Feb 11 j 13:03	0°  11		direct	766 Jan 17 j 01:36	9°  34'47'13	
desc. node	765 Feb 14 j 02:36	2°  15'04'22		morning max el	766 Jan 29 j 23:58	17°  34'23'22	26°36'01
morning max el	765 Feb 16 j 14:06	4°  15'24'26	27°27'30	desc. node	766 Jan 31 j 23:39	19°  34'28'06	
	765 Mar 07 j 22:40	0°  11			766 Feb 09 j 13:42	0°  11	
morning set	765 Mar 23 j 16:59	27°  15'11'56'28		morning set	766 Feb 28 j 20:25	0°  11	
	765 Mar 24 j 17:56	0°  11		max. Earth dist.	766 Mar 07 j 00:02	11°  15'11'33	
max. Earth dist.	765 Mar 28 j 14:50	7°  15'52'55	1.33469 AU	max. Earth dist.	766 Mar 11 j 05:28	19°  15'11'25'25	1.34709 AU
superior conj	765 Mar 31 j 16:26	14°  15'52'00	-0°33'55	superior conj	766 Mar 15 j 16:11	28°  15'11'26'10	-1°00'59
minimum elong	765 Mar 31 j 18:05	14°  15'28'42	0°33'34	minimum elong	766 Mar 15 j 19:09	28°  15'11'41'26	1°00'27
asc. node	765 Apr 03 j 22:59	21°  15'19'43			766 Mar 16 j 10:19	0°  11	
evening rise	765 Apr 07 j 21:27	29°  15'42'26		asc. node	766 Mar 21 j 20:03	11°  15'17'54	
	765 Apr 08 j 00:48	0°  11		evening rise	766 Mar 23 j 06:31	14°  15'17'08	
	765 Apr 25 j 10:02	0°  11			766 Mar 31 j 08:43	0°  11	
evening max el	765 Apr 29 j 12:20	4°  15'11'31'10	22°26'54	evening max el	766 Apr 11 j 11:49	15°  15'18'22'56	20°58'43
retrograde	765 May 12 j 12:43	10°  15'56'59		retrograde	766 Apr 23 j 02:12	21°  15'18'00'52	
desc. node	765 May 13 j 01:51	10°  15'56'19		evening set	766 Apr 25 j 07:22	20°  15'18'49'18	
evening set	765 May 15 j 12:53	10°  15'11'37'06		desc. node	766 Apr 29 j 22:52	19°  15'18'18'57	
min. Earth dist.	765 May 23 j 19:42	7°  15'11'02'28	0.55255 AU	inferior conj	766 May 04 j 15:01	16°  15'18'50'56	-1°20'38
inferior conj	765 May 24 j 21:04	6°  15'11'26'33	-3°11'06	minimum elong	766 May 04 j 11:13	16°  15'18'56'20	1°19'17
minimum elong	765 May 24 j 13:36	6°  15'11'37'07	3°08'59	min. Earth dist.	766 May 05 j 08:20	16°  15'18'26'24	0.54977 AU
morning rise	765 Jun 02 j 16:19	2°  15'11'33'38		morning rise	766 May 13 j 14:54	12°  15'18'46'28	
direct	765 Jun 05 j 13:31	2°  15'11'14'40		direct	766 May 16 j 23:15	12°  15'18'22'17	
morning max el	765 Jun 17 j 00:31	7°  15'11'34'46	21°06'35	morning max el	766 May 29 j 22:30	18°  15'18'34'47	22°41'44
asc. node	765 Jun 30 j 22:15	27°  15'11'24'22			766 Jun 08 j 05:47	0°  11	
	765 Jul 02 j 07:07	0°  11		asc. node	766 Jun 17 j 19:19	16°  15'11'22'52'42	
morning set	765 Jul 06 j 18:27	8°  15'11'57'27		morning set	766 Jun 21 j 05:03	23°  15'11'22'50'44	
					766 Jun 24 j 02:49	0°  11	
superior conj	765 Jul 14 j 04:51	24°  15'11'26'12	1°42'01	superior conj	766 Jun 28 j 08:41	9°  15'11'26'04'00	1°31'21
minimum elong	765 Jul 14 j 03:20	24°  15'11'18'21	1°41'55	minimum elong	766 Jun 28 j 06:25	8°  15'11'26'51'56	1°31'06
	765 Jul 16 j 22:15	0°  11		max. Earth dist.	766 Jul 01 j 06:45	15°  15'11'26'12'24	1.34092 AU
max. Earth dist.	765 Jul 18 j 11:51	3°  15'11'08'05	1.35481 AU	evening rise	766 Jul 06 j 03:57	25°  15'11'26'05'37	
evening rise	765 Jul 22 j 17:37	11°  15'11'20'47			766 Jul 08 j 16:53	0°  11	
	765 Aug 02 j 07:45	0°  11		desc. node	766 Jul 26 j 22:14	0°  11	
desc. node	765 Aug 09 j 01:12	10°  15'11'31'27			766 Jul 26 j 18:52	0°  11	
	765 Aug 23 j 22:06	0°  11		evening max el	766 Aug 09 j 17:24	16°  15'11'26'11'51'49	27°12'34
evening max el	765 Aug 27 j 05:34	3°  15'11'25'26	26°32'09	retrograde	766 Aug 23 j 02:23	24°  15'11'26'11'10'48	
retrograde	765 Sep 09 j 02:17	10°  15'11'28'14		evening set	766 Aug 30 j 02:11	21°  15'11'26'11'25'43	
evening set	765 Sep 15 j 15:19	7°  15'11'56'33		min. Earth dist.	766 Sep 02 j 21:18	17°  15'11'26'11'47'53	0.64880 AU
min. Earth dist.	765 Sep 19 j 17:12	3°  15'11'42'10	0.66116 AU	inferior conj	766 Sep 05 j 01:16	15°  15'11'26'11'24'02	-2°47'35
inferior conj	765 Sep 21 j 08:25	1°  15'11'43'57	-1°51'34	minimum elong	766 Sep 05 j 05:30	15°  15'11'26'11'12'18	2°46'06
minimum elong	765 Sep 21 j 11:19	1°  15'11'35'14	1°50'25	morning rise	766 Sep 11 j 09:38	9°  15'11'26'11'52'30	
	765 Sep 22 j 19:33	30° 15'11'30'11'33		asc. node	766 Sep 13 j 18:31	9° 15'11'26'11'14'40	
asc. node	765 Sep 26 j 21:26	26° 15'11'13'33		direct	766 Sep 14 j 02:18	9° 15'11'26'11'14'07	
morning rise	765 Sep 27 j 07:46	25° 15'11'18'58'13					

morning max el	766 Sep 20 j 14:34	12° \mathbb{M} 43'27	18°05'24		767 Aug 18 j 05:33	30° \mathbb{R} \mathbb{Q}	
	766 Oct 02 j 15:52	0° \mathbb{L}		inferior conj	767 Aug 19 j 08:49	28° \mathbb{Q} 51'24	-3°39'22
morning set	766 Oct 08 j 13:32	9° \mathbb{L} 50'02		minimum elong	767 Aug 19 j 13:48	28° \mathbb{Q} 38'57	3°38'00
	766 Oct 20 j 20:33	0° \mathbb{M}		morning rise	767 Aug 26 j 03:20	23° \mathbb{Q} 37'13	
				direct	767 Aug 28 j 15:46	23° \mathbb{Q} 06'58	
superior conj	766 Oct 22 j 12:49	2° \mathbb{M} 41'11	0°02'26	asc. node	767 Aug 31 j 15:34	23° \mathbb{Q} 50'26	
minimum elong	766 Oct 22 j 13:06	2° \mathbb{M} 42'21	0°02'23	morning max el	767 Sep 04 j 06:32	26° \mathbb{Q} 32'35	17°52'46
behind sun begin	766 Oct 22 j 02:30	1° \mathbb{M} 59'57			767 Sep 07 j 06:08	0° \mathbb{M}	
behind sun end	766 Oct 22 j 23:43	3° \mathbb{M} 24'41		morning set	767 Sep 20 j 18:35	22° \mathbb{M} 04'11	
desc. node	766 Oct 22 j 21:32	3° \mathbb{M} 15'58			767 Sep 25 j 07:47	0° \mathbb{L}	
max. Earth dist.	766 Oct 26 j 10:30	8° \mathbb{M} 53'04	1.44800 AU				
evening rise	766 Nov 07 j 23:33	28° \mathbb{M} 27'37		superior conj	767 Oct 02 j 17:45	12° \mathbb{L} 34'55	0°46'03
	766 Nov 08 j 23:27	0° \mathbb{M}		minimum elong	767 Oct 02 j 22:03	12° \mathbb{L} 52'47	0°45'28
greatest brilliancy	766 Nov 21 j 10:14	19° \mathbb{M} 00'24	-0.7m	max. Earth dist.	767 Oct 09 j 02:38	22° \mathbb{L} 59'17	1.43833 AU
	766 Nov 29 j 04:29	0° \mathbb{Z}		desc. node	767 Oct 09 j 18:33	24° \mathbb{L} 03'04	
evening max el	766 Dec 03 j 13:29	5° \mathbb{Z} 10'18	19°51'39		767 Oct 13 j 12:30	0° \mathbb{M}	
asc. node	766 Dec 10 j 17:46	9° \mathbb{Z} 33'17		evening rise	767 Oct 18 j 07:05	7° \mathbb{M} 26'33	
retrograde	766 Dec 11 j 02:07	9° \mathbb{Z} 33'58			767 Nov 02 j 07:19	0° \mathbb{M}	
evening set	766 Dec 14 j 16:17	8° \mathbb{Z} 18'32		evening max el	767 Nov 16 j 14:06	18° \mathbb{M} 39'18	20°56'19
inferior conj	766 Dec 20 j 03:41	2° \mathbb{Z} 17'50	2°49'20	retrograde	767 Nov 24 j 23:46	23° \mathbb{M} 38'04	
minimum elong	766 Dec 20 j 00:58	2° \mathbb{Z} 26'55	2°48'36	asc. node	767 Nov 27 j 14:48	22° \mathbb{M} 59'13	
min. Earth dist.	766 Dec 21 j 02:59	1° \mathbb{Z} 00'28	0.66730 AU	evening set	767 Nov 28 j 23:31	22° \mathbb{M} 07'30	
	766 Dec 21 j 21:31	30° \mathbb{R} \mathbb{M}		inferior conj	767 Dec 04 j 08:37	15° \mathbb{M} 56'05	2°09'37
morning rise	766 Dec 25 j 09:25	26° \mathbb{M} 04'54		minimum elong	767 Dec 04 j 06:07	16° \mathbb{M} 04'37	2°08'45
direct	766 Dec 31 j 08:51	23° \mathbb{M} 25'27		min. Earth dist.	767 Dec 04 j 19:36	15° \mathbb{M} 18'23	0.67395 AU
	767 Jan 11 j 19:12	0° \mathbb{Z}		morning rise	767 Dec 09 j 12:32	9° \mathbb{M} 42'40	
morning max el	767 Jan 12 j 08:59	0° \mathbb{Z} 34'17	25°22'22	direct	767 Dec 14 j 21:11	7° \mathbb{M} 21'52	
desc. node	767 Jan 18 j 20:41	7° \mathbb{Z} 55'10		morning max el	767 Dec 25 j 17:22	13° \mathbb{M} 49'54	23°56'40
	767 Feb 03 j 12:50	0° \mathbb{M}		desc. node	768 Jan 05 j 17:44	27° \mathbb{M} 07'12	
morning set	767 Feb 17 j 15:04	23° \mathbb{M} 38'55			768 Jan 07 j 20:14	0° \mathbb{Z}	
	767 Feb 21 j 01:50	0° \mathbb{M}			768 Jan 27 j 10:10	0° \mathbb{M}	
max. Earth dist.	767 Feb 21 j 08:19	0° \mathbb{M} 30'27	1.36388 AU	morning set	768 Jan 30 j 07:59	4° \mathbb{M} 55'46	
				max. Earth dist.	768 Feb 03 j 03:42	11° \mathbb{M} 36'35	1.38411 AU
superior conj	767 Feb 27 j 07:11	12° \mathbb{M} 01'46	-1°26'12				
minimum elong	767 Feb 27 j 11:03	12° \mathbb{M} 21'02	1°25'40	superior conj	768 Feb 10 j 09:49	24° \mathbb{M} 57'09	-1°47'12
evening rise	767 Mar 07 j 11:10	28° \mathbb{M} 32'49		minimum elong	768 Feb 10 j 13:40	25° \mathbb{M} 15'30	1°46'51
	767 Mar 08 j 04:27	0° \mathbb{Y}			768 Feb 13 j 01:02	0° \mathbb{M}	
asc. node	767 Mar 08 j 17:06	1° \mathbb{Y} 03'27		evening rise	768 Feb 19 j 08:51	12° \mathbb{M} 22'24	
evening max el	767 Mar 24 j 22:44	26° \mathbb{Y} 51'53	19°46'30	asc. node	768 Feb 23 j 14:07	20° \mathbb{M} 30'53	
	767 Mar 29 j 01:00	0° \mathbb{Z}			768 Feb 28 j 23:22	0° \mathbb{Y}	
retrograde	767 Apr 03 j 19:46	1° \mathbb{Z} 36'54		evening max el	768 Mar 06 j 20:26	8° \mathbb{Y} 59'19	18°53'35
evening set	767 Apr 05 j 21:33	1° \mathbb{Z} 25'15		retrograde	768 Mar 15 j 04:21	13° \mathbb{Y} 01'19	
	767 Apr 10 j 01:19	30° \mathbb{R} \mathbb{Y}		evening set	768 Mar 17 j 10:41	12° \mathbb{Y} 44'39	
inferior conj	767 Apr 14 j 15:26	27° \mathbb{Y} 23'21	0°37'22	inferior conj	768 Mar 25 j 09:26	8° \mathbb{Y} 27'16	2°12'34
minimum elong	767 Apr 14 j 17:03	27° \mathbb{Y} 20'51	0°36'48	minimum elong	768 Mar 25 j 13:36	8° \mathbb{Y} 19'47	2°11'23
desc. node	767 Apr 16 j 19:53	26° \mathbb{Y} 02'04		min. Earth dist.	768 Mar 28 j 14:53	6° \mathbb{Y} 09'17	0.57159 AU
min. Earth dist.	767 Apr 16 j 22:35	25° \mathbb{Y} 57'56	0.55660 AU	morning rise	768 Apr 02 j 13:26	3° \mathbb{Y} 20'32	
morning rise	767 Apr 23 j 10:06	22° \mathbb{Y} 49'54		desc. node	768 Apr 02 j 16:55	3° \mathbb{Y} 16'56	
direct	767 Apr 27 j 15:38	22° \mathbb{Y} 10'05		direct	768 Apr 07 j 21:41	2° \mathbb{Y} 11'49	
morning max el	767 May 11 j 14:08	29° \mathbb{Y} 08'00	24°23'13	morning max el	768 Apr 22 j 05:08	9° \mathbb{Y} 39'02	25°56'40
	767 May 12 j 11:26	0° \mathbb{Z}			768 May 07 j 14:51	0° \mathbb{Z}	
	767 Jun 01 j 09:26	0° \mathbb{I}		morning set	768 May 20 j 04:24	23° \mathbb{Z} 44'19	
asc. node	767 Jun 04 j 16:22	6° \mathbb{I} 39'56		asc. node	768 May 21 j 13:24	26° \mathbb{Z} 39'28	
morning set	767 Jun 05 j 16:56	8° \mathbb{I} 48'32			768 May 23 j 02:38	0° \mathbb{I}	
superior conj	767 Jun 12 j 17:11	23° \mathbb{I} 55'47	1°15'48	superior conj	768 May 27 j 04:12	8° \mathbb{I} 53'22	0°56'17
minimum elong	767 Jun 12 j 14:44	23° \mathbb{I} 42'28	1°15'26	minimum elong	768 May 27 j 02:03	8° \mathbb{I} 41'35	0°55'53
max. Earth dist.	767 Jun 14 j 10:23	27° \mathbb{I} 38'14	1.33098 AU	max. Earth dist.	768 May 27 j 20:16	10° \mathbb{I} 21'26	1.32499 AU
	767 Jun 15 j 12:52	0° \mathbb{G}		evening rise	768 Jun 03 j 04:43	23° \mathbb{I} 58'55	
evening rise	767 Jun 20 j 00:45	9° \mathbb{G} 22'04			768 Jun 06 j 03:43	0° \mathbb{G}	
	767 Jul 01 j 01:41	0° \mathbb{Q}			768 Jun 23 j 20:59	0° \mathbb{Q}	
desc. node	767 Jul 13 j 19:14	19° \mathbb{Q} 15'14		desc. node	768 Jun 29 j 16:15	7° \mathbb{Q} 24'53	
evening max el	767 Jul 23 j 03:42	29° \mathbb{Q} 56'39	27°25'36	evening max el	768 Jul 04 j 10:04	12° \mathbb{Q} 26'23	27°06'35
	767 Jul 23 j 05:07	0° \mathbb{M}		retrograde	768 Jul 18 j 07:43	19° \mathbb{Q} 42'07	
retrograde	767 Aug 05 j 20:35	7° \mathbb{M} 15'35		evening set	768 Jul 25 j 09:00	17° \mathbb{Q} 27'04	
evening set	767 Aug 13 j 01:28	4° \mathbb{M} 38'43		min. Earth dist.	768 Jul 29 j 00:20	14° \mathbb{Q} 43'32	0.61395 AU
min. Earth dist.	767 Aug 16 j 15:59	1° \mathbb{M} 33'02	0.63288 AU	inferior conj	768 Aug 01 j 03:49	11° \mathbb{Q} 57'19	-4°22'01

minimum elong	768 Aug 01 j 08:17	11°Ω47'26	4°21'14	inferior conj	769 Jul 14 j 06:42	24°Ω32'12	-4°47'31
morning rise	768 Aug 08 j 09:11	7°Ω03'26		minimum elong	769 Jul 14 j 08:34	24°Ω28'35	4°47'25
direct	768 Aug 10 j 20:02	6°Ω38'34		morning rise	769 Jul 21 j 23:09	20°Ω00'59	
asc. node	768 Aug 17 j 12:37	9°Ω49'43		direct	769 Jul 24 j 10:51	19°Ω39'29	
morning max el	768 Aug 17 j 20:37	10°Ω08'48	17°58'46	morning max el	769 Aug 01 j 05:46	23°Ω23'58	18°24'34
	768 Aug 30 j 22:06	0°൬		asc. node	769 Aug 04 j 09:39	26°Ω57'36	
morning set	768 Sep 02 j 18:18	5°൬11'52			769 Aug 06 j 14:07	0°Ω	
				morning set	769 Aug 17 j 07:23	18°Ω58'17	
superior conj	768 Sep 13 j 01:58	23°൬48'55	1°17'55		769 Aug 23 j 01:59	0°൬	
minimum elong	768 Sep 13 j 06:34	24°൬09'03	1°17'26	superior conj	769 Aug 26 j 09:55	6°൬13'15	1°37'18
	768 Sep 16 j 15:56	0°Ω		minimum elong	769 Aug 26 j 12:51	6°൬26'46	1°37'06
max. Earth dist.	768 Sep 20 j 14:25	6°Ω36'36	1.42293 AU	max. Earth dist.	769 Sep 02 j 21:04	19°൬33'00	1.40377 AU
desc. node	768 Sep 25 j 15:34	14°Ω49'00		evening rise	769 Sep 07 j 08:10	27°൬05'52	
evening rise	768 Sep 26 j 21:23	16°Ω47'38			769 Sep 09 j 02:31	0°Ω	
	768 Oct 05 j 10:39	0°൬		desc. node	769 Sep 12 j 12:35	5°Ω30'00	
	768 Oct 27 j 08:36	0°✎			769 Sep 29 j 02:21	0°൬	
evening max el	768 Oct 29 j 09:09	2°✎09'41	22°11'04	evening max el	769 Oct 11 j 23:39	15°൬42'04	23°30'51
retrograde	768 Nov 07 j 19:50	7°✎46'37		retrograde	769 Oct 22 j 12:57	21°൬56'12	
evening set	768 Nov 12 j 07:11	5°✎59'12		evening set	769 Oct 27 j 13:39	19°൬51'02	
asc. node	768 Nov 13 j 11:49	4°✎53'39		asc. node	769 Oct 31 j 08:52	15°൬36'42	
	768 Nov 17 j 09:55	30°൬൬		inferior conj	769 Nov 01 j 22:41	13°൬28'41	0°32'28
inferior conj	768 Nov 17 j 15:33	29°൬40'29	1°23'30	minimum elong	769 Nov 01 j 21:55	13°൬31'18	0°32'08
minimum elong	768 Nov 17 j 13:45	29°൬46'44	1°22'47	min. Earth dist.	769 Nov 01 j 11:59	14°൬05'19	0.67685 AU
min. Earth dist.	768 Nov 17 j 15:23	29°൬41'02	0.67707 AU	morning rise	769 Nov 07 j 06:08	7°൬20'51	
morning rise	768 Nov 22 j 20:09	23°൬28'46		direct	769 Nov 11 j 09:29	5°൬45'01	
direct	768 Nov 27 j 13:44	21°൬30'15		morning max el	769 Nov 19 j 20:27	10°൬40'36	21°06'59
morning max el	768 Dec 07 j 04:00	27°൬10'47	22°28'52		769 Dec 04 j 18:07	0°✎	
	768 Dec 09 j 18:51	0°✎		desc. node	769 Dec 09 j 11:48	6°✎58'26	
desc. node	768 Dec 22 j 14:46	16°✎51'28		morning set	769 Dec 20 j 06:06	23°✎26'25	
	768 Dec 31 j 11:37	0°Ω			769 Dec 24 j 09:29	0°Ω	
morning set	769 Jan 09 j 20:58	14°Ω49'50		max. Earth dist.	769 Dec 28 j 03:09	6°Ω02'34	1.42507 AU
max. Earth dist.	769 Jan 15 j 00:03	23°Ω21'39	1.40550 AU				
	769 Jan 18 j 20:37	0°≈		superior conj	770 Jan 04 j 06:37	17°Ω58'18	-2°01'59
superior conj	769 Jan 22 j 19:27	7°≈00'38	-2°00'36	minimum elong	770 Jan 04 j 04:43	17°Ω50'13	2°01'56
minimum elong	769 Jan 22 j 21:35	7°≈10'15	2°00'31		770 Jan 11 j 04:21	0°≈	
evening rise	769 Feb 01 j 20:30	25°≈38'23		evening rise	770 Jan 15 j 18:16	8°≈11'48	
	769 Feb 04 j 04:13	0°✎		asc. node	770 Jan 27 j 08:11	28°≈04'12	
asc. node	769 Feb 09 j 11:09	9°✎33'58			770 Jan 28 j 16:11	0°✎	
evening max el	769 Feb 18 j 02:12	21°✎38'18	18°20'45	evening max el	770 Feb 01 j 12:46	4°✎38'59	18°07'46
retrograde	769 Feb 25 j 08:09	25°✎13'50		retrograde	770 Feb 08 j 04:29	8°✎04'02	
evening set	769 Feb 27 j 20:04	24°✎49'23		evening set	770 Feb 10 j 21:15	7°✎30'25	
inferior conj	769 Mar 07 j 00:40	20°✎11'18	3°13'12	inferior conj	770 Feb 17 j 11:10	2°✎31'11	3°42'14
minimum elong	769 Mar 07 j 04:08	20°✎04'02	3°12'33	minimum elong	770 Feb 17 j 12:33	2°✎27'49	3°42'08
min. Earth dist.	769 Mar 10 j 11:02	17°✎19'50	0.59146 AU		770 Feb 20 j 01:34	30°൬≈	
morning rise	769 Mar 14 j 09:46	14°✎37'42		min. Earth dist.	770 Feb 20 j 14:08	29°≈30'39	0.61264 AU
direct	769 Mar 20 j 16:45	12°✎52'10		morning rise	770 Feb 24 j 02:19	26°≈39'43	
desc. node	769 Mar 20 j 13:56	12°✎52'13		direct	770 Mar 02 j 22:30	24°≈19'39	
morning max el	769 Apr 04 j 00:42	20°✎35'13	27°07'06	desc. node	770 Mar 07 j 10:58	25°≈15'15	
	769 Apr 12 j 03:28	0°൬			770 Mar 14 j 18:17	0°✎	
	769 Apr 30 j 08:35	0°✎		morning max el	770 Mar 17 j 02:43	2°✎11'17	27°43'56
morning set	769 May 04 j 13:49	8°✎32'43			770 Apr 06 j 11:13	0°൬	
asc. node	769 May 08 j 10:26	16°✎46'40		morning set	770 Apr 18 j 19:19	23°൬07'06	
					770 Apr 22 j 02:12	0°✎	
superior conj	769 May 11 j 15:58	23°✎50'52	0°33'37	max. Earth dist.	770 Apr 24 j 20:17	5°✎55'57	1.32423 AU
minimum elong	769 May 11 j 14:31	23°✎42'58	0°33'19	asc. node	770 Apr 25 j 07:29	6°✎56'54	
max. Earth dist.	769 May 11 j 08:52	23°✎11'52	1.32277 AU				
	769 May 14 j 11:13	0°൬		superior conj	770 Apr 26 j 02:48	8°✎42'16	0°08'31
evening rise	769 May 18 j 13:22	8°൬47'56		minimum elong	770 Apr 26 j 02:24	8°✎40'07	0°08'26
	769 May 29 j 13:49	0°Ω		behind sun begin	770 Apr 25 j 22:04	8°✎16'27	
evening max el	769 Jun 16 j 10:01	24°Ω11'00	26°14'37	behind sun end	770 Apr 26 j 06:44	9°✎03'47	
desc. node	769 Jun 16 j 13:15	24°Ω18'39		evening rise	770 May 03 j 00:33	23°✎41'30	
	769 Jun 24 j 12:31	0°Ω			770 May 06 j 01:29	0°൬	
retrograde	769 Jun 30 j 10:12	1°Ω23'11			770 May 24 j 08:42	0°Ω	
	769 Jul 06 j 05:28	30°൬൬		evening max el	770 May 29 j 03:05	5°Ω11'21	24°55'32
evening set	769 Jul 06 j 20:07	29°Ω42'00		desc. node	770 Jun 03 j 10:15	9°Ω26'32	
min. Earth dist.	769 Jul 10 j 22:53	27°Ω04'55	0.59342 AU	retrograde	770 Jun 12 j 02:34	12°Ω17'18	

evening set	770 Jun 17 j 07:58	11° \mathbb{D} 14'57		min. Earth dist.	771 Jun 04 j 03:17	18° \mathbb{H} 46'48	0.55815 AU
min. Earth dist.	770 Jun 22 j 14:30	8° \mathbb{D} 26'15	0.57368 AU	inferior conj	771 Jun 06 j 01:59	17° \mathbb{H} 37'46	-3°58'37
inferior conj	770 Jun 25 j 14:18	6° \mathbb{D} 27'07	-4°44'05	minimum elong	771 Jun 05 j 18:59	17° \mathbb{H} 48'10	3°57'07
minimum elong	770 Jun 25 j 11:30	6° \mathbb{D} 31'47	4°43'51	morning rise	771 Jun 14 j 16:00	13° \mathbb{H} 42'44	
morning rise	770 Jul 03 j 17:47	2° \mathbb{D} 17'46		direct	771 Jun 17 j 09:29	13° \mathbb{H} 24'33	
direct	770 Jul 06 j 07:51	1° \mathbb{D} 58'30		morning max el	771 Jun 27 j 22:02	18° \mathbb{H} 16'38	20°18'55
morning max el	770 Jul 15 j 07:05	6° \mathbb{D} 09'41	19°11'16		771 Jul 06 j 23:22	0° \mathbb{D}	
asc. node	770 Jul 22 j 06:43	14° \mathbb{D} 59'47		asc. node	771 Jul 09 j 03:47	3° \mathbb{D} 43'13	
	770 Jul 30 j 14:45	0° \mathbb{Q}		morning set	771 Jul 16 j 10:52	17° \mathbb{D} 47'47	
morning set	770 Aug 01 j 05:55	3° \mathbb{Q} 13'10			771 Jul 22 j 09:29	0° \mathbb{Q}	
superior conj	770 Aug 09 j 11:59	19° \mathbb{Q} 32'29	1°45'48	superior conj	771 Jul 24 j 03:00	3° \mathbb{Q} 31'00	1°45'29
minimum elong	770 Aug 09 j 12:52	19° \mathbb{Q} 36'44	1°45'46	minimum elong	771 Jul 24 j 02:12	3° \mathbb{Q} 26'53	1°45'27
	770 Aug 15 j 00:53	0° \mathbb{P}		max. Earth dist.	771 Jul 29 j 05:58	13° \mathbb{Q} 38'11	1.36436 AU
max. Earth dist.	770 Aug 16 j 00:28	1° \mathbb{P} 47'48	1.38339 AU	evening rise	771 Aug 02 j 04:58	21° \mathbb{Q} 04'52	
evening rise	770 Aug 19 j 19:36	8° \mathbb{P} 33'45			771 Aug 07 j 05:08	0° \mathbb{P}	
desc. node	770 Aug 30 j 09:38	26° \mathbb{P} 02'13		desc. node	771 Aug 17 j 06:39	16° \mathbb{P} 19'53	
	770 Sep 01 j 23:24	0° \mathbb{L}			771 Aug 26 j 21:03	0° \mathbb{L}	
evening max el	770 Sep 24 j 11:41	29° \mathbb{L} 18'02	24°49'16	evening max el	771 Sep 06 j 23:19	12° \mathbb{L} 55'42	25°59'05
	770 Sep 25 j 05:01	0° \mathbb{M}		retrograde	771 Sep 19 j 10:57	20° \mathbb{L} 02'14	
retrograde	770 Oct 06 j 02:16	6° \mathbb{M} 03'28		evening set	771 Sep 25 j 16:12	17° \mathbb{L} 26'10	
evening set	770 Oct 11 j 17:17	3° \mathbb{M} 41'16		min. Earth dist.	771 Sep 29 j 22:16	12° \mathbb{L} 50'21	0.66656 AU
	770 Oct 15 j 03:07	30° \mathbb{R} \mathbb{L}		inferior conj	771 Oct 01 j 06:39	11° \mathbb{L} 08'42	-1°18'43
min. Earth dist.	770 Oct 16 j 07:04	28° \mathbb{L} 29'39	0.67337 AU	minimum elong	771 Oct 01 j 08:40	11° \mathbb{L} 02'20	1°17'52
inferior conj	770 Oct 17 j 04:20	27° \mathbb{L} 19'15	-0°22'05	asc. node	771 Oct 05 j 02:58	6° \mathbb{L} 46'12	
minimum elong	770 Oct 17 j 04:53	27° \mathbb{L} 17'26	0°21'51	morning rise	771 Oct 07 j 01:28	5° \mathbb{L} 16'10	
asc. node	770 Oct 18 j 05:54	25° \mathbb{L} 55'26		direct	771 Oct 10 j 05:45	4° \mathbb{L} 18'08	
morning rise	770 Oct 22 j 16:35	21° \mathbb{L} 17'43		morning max el	771 Oct 17 j 04:02	8° \mathbb{L} 10'51	19°00'29
direct	770 Oct 26 j 07:20	20° \mathbb{L} 02'28			771 Nov 01 j 18:53	0° \mathbb{M}	
morning max el	770 Nov 02 j 20:38	24° \mathbb{L} 21'41	19°56'30	morning set	771 Nov 08 j 10:41	10° \mathbb{M} 25'07	
	770 Nov 07 j 16:29	0° \mathbb{M}		desc. node	771 Nov 13 j 05:56	17° \mathbb{M} 56'59	
desc. node	770 Nov 26 j 08:53	27° \mathbb{M} 22'08			771 Nov 20 j 22:20	0° \mathbb{N}	
	770 Nov 28 j 01:54	0° \mathbb{N}		max. Earth dist.	771 Nov 23 j 05:27	3° \mathbb{N} 36'41	1.44894 AU
morning set	770 Nov 29 j 02:24	1° \mathbb{N} 34'33		superior conj	771 Nov 25 j 00:33	6° \mathbb{N} 26'31	-1°12'51
max. Earth dist.	770 Dec 10 j 13:39	19° \mathbb{N} 33'12	1.44017 AU	minimum elong	771 Nov 24 j 16:18	5° \mathbb{N} 54'01	1°11'55
superior conj	770 Dec 15 j 15:23	27° \mathbb{N} 43'08	-1°46'42		771 Dec 09 j 17:28	0° \mathbb{O}	
minimum elong	770 Dec 15 j 08:28	27° \mathbb{N} 15'01	1°46'12	evening rise	771 Dec 10 j 03:30	0° \mathbb{O} 40'50	
	770 Dec 17 j 00:57	0° \mathbb{O}			771 Dec 29 j 08:12	0° \mathbb{P}	
evening rise	770 Dec 28 j 21:59	19° \mathbb{O} 55'01		evening max el	771 Dec 30 j 13:01	1° \mathbb{P} 18'08	18°38'46
	771 Jan 03 j 19:34	0° \mathbb{P}		asc. node	772 Jan 01 j 02:15	2° \mathbb{P} 44'50	
asc. node	771 Jan 14 j 05:13	15° \mathbb{P} 51'54		retrograde	772 Jan 06 j 04:34	5° \mathbb{P} 00'06	
evening max el	771 Jan 16 j 01:16	17° \mathbb{P} 54'15	18°14'02	evening set	772 Jan 09 j 07:26	4° \mathbb{P} 05'12	
retrograde	771 Jan 22 j 12:42	21° \mathbb{P} 22'08			772 Jan 13 j 19:20	30° \mathbb{R} \mathbb{O}	
evening set	771 Jan 25 j 10:10	20° \mathbb{P} 38'25		inferior conj	772 Jan 15 j 02:25	28° \mathbb{O} 28'10	3°34'16
inferior conj	771 Jan 31 j 13:04	15° \mathbb{P} 19'22	3°47'02	minimum elong	772 Jan 15 j 00:26	28° \mathbb{O} 34'06	3°34'00
minimum elong	771 Jan 31 j 12:27	15° \mathbb{P} 21'02	3°47'01	min. Earth dist.	772 Jan 17 j 00:24	26° \mathbb{O} 10'15	0.64902 AU
min. Earth dist.	771 Feb 03 j 02:28	12° \mathbb{P} 32'13	0.63240 AU	morning rise	772 Jan 20 j 17:00	22° \mathbb{O} 20'04	
morning rise	771 Feb 06 j 13:53	9° \mathbb{P} 17'18		direct	772 Jan 27 j 11:14	19° \mathbb{O} 27'44	
direct	771 Feb 13 j 13:12	6° \mathbb{P} 33'39		desc. node	772 Feb 09 j 05:06	26° \mathbb{O} 38'46	
desc. node	771 Feb 22 j 08:01	10° \mathbb{P} 02'43		morning max el	772 Feb 09 j 19:21	27° \mathbb{O} 14'02	27°08'50
morning max el	771 Feb 27 j 09:53	14° \mathbb{P} 27'30	27°43'32		772 Feb 12 j 10:08	0° \mathbb{P}	
	771 Mar 12 j 00:53	0° \mathbb{H}			772 Mar 04 j 16:30	0° \mathbb{H}	
	771 Mar 30 j 00:37	0° \mathbb{Y}		morning set	772 Mar 16 j 08:46	21° \mathbb{H} 01'08	
morning set	771 Apr 02 j 18:37	7° \mathbb{Y} 19'42			772 Mar 20 j 21:08	0° \mathbb{Y}	
max. Earth dist.	771 Apr 08 j 02:24	18° \mathbb{Y} 19'20	1.32962 AU	max. Earth dist.	772 Mar 20 j 23:19	0° \mathbb{Y} 11'07	1.33935 AU
superior conj	771 Apr 10 j 10:59	23° \mathbb{Y} 21'41	-0°18'12	superior conj	772 Mar 24 j 14:32	7° \mathbb{Y} 43'00	-0°45'30
minimum elong	771 Apr 10 j 11:51	23° \mathbb{Y} 26'25	0°18'01	minimum elong	772 Mar 24 j 16:46	7° \mathbb{Y} 54'43	0°45'04
asc. node	771 Apr 12 j 04:32	27° \mathbb{Y} 05'58		asc. node	772 Mar 29 j 01:35	17° \mathbb{Y} 09'52	
	771 Apr 13 j 12:42	0° \mathbb{B}		evening rise	772 Mar 31 j 23:02	23° \mathbb{Y} 16'11	
evening rise	771 Apr 17 j 12:23	8° \mathbb{B} 32'56			772 Apr 04 j 05:51	0° \mathbb{B}	
	771 Apr 28 j 18:02	0° \mathbb{H}		evening max el	772 Apr 21 j 11:43	26° \mathbb{B} 24'36	21°47'55
evening max el	771 May 10 j 17:14	15° \mathbb{H} 45'34	23°21'40		772 Apr 25 j 23:22	0° \mathbb{H}	
desc. node	771 May 21 j 07:16	22° \mathbb{H} 12'00		retrograde	772 May 03 j 23:31	2° \mathbb{H} 31'27	
retrograde	771 May 24 j 06:53	22° \mathbb{H} 32'16		evening set	772 May 06 j 13:12	2° \mathbb{H} 16'40	
evening set	771 May 28 j 00:40	22° \mathbb{H} 01'30		desc. node	772 May 07 j 04:17	2° \mathbb{H} 08'44	

	772 May 12 j 16:54	30° RB		evening set	773 Apr 16 j 15:04	12° $\text{B}35'15$	
inferior conj	772 May 15 j 23:11	28° $\text{B}13'29$	-2°27'31	desc. node	773 Apr 24 j 01:19	9° $\text{B}36'10$	
minimum elong	772 May 15 j 16:41	28° $\text{B}22'35$	2°25'25	inferior conj	773 Apr 25 j 18:07	8° $\text{B}37'31$	-0°29'28
min. Earth dist.	772 May 15 j 15:53	28° $\text{B}23'44$	0.55017 AU	minimum elong	773 Apr 25 j 16:44	8° $\text{B}39'32$	0°28'57
morning rise	772 May 24 j 21:15	24° $\text{B}17'41$		min. Earth dist.	773 Apr 27 j 05:00	7° $\text{B}46'45$	0.55162 AU
direct	772 May 27 j 22:04	23° $\text{B}57'21$		morning rise	773 May 04 j 17:09	4° $\text{B}22'29$	
morning max el	772 Jun 09 j 01:45	29° $\text{B}40'29$	21°45'27	direct	773 May 08 j 09:43	3° $\text{B}53'01$	
	772 Jun 09 j 10:02	0° II		morning max el	773 May 21 j 20:12	10° $\text{B}26'01$	23°24'44
asc. node	772 Jun 25 j 00:52	22° $\text{II}57'59$			773 Jun 05 j 06:40	0° II	
	772 Jun 28 j 13:42	0° B		asc. node	773 Jun 11 j 21:55	12° $\text{II}35'09$	
morning set	772 Jun 29 j 19:59	2° $\text{B}36'14$		morning set	773 Jun 14 j 07:20	17° $\text{II}32'07$	
					773 Jun 20 j 03:03	0° B	
superior conj	772 Jul 07 j 03:04	17° $\text{B}57'26$	1°38'09				
minimum elong	772 Jul 07 j 01:10	17° $\text{B}47'25$	1°38'00	superior conj	773 Jun 21 j 09:09	2° $\text{B}41'52$	1°25'17
max. Earth dist.	772 Jul 10 j 19:21	25° $\text{B}32'27$	1.34845 AU	minimum elong	773 Jun 21 j 06:45	2° $\text{B}28'55$	1°24'59
	772 Jul 13 j 00:47	0° B		max. Earth dist.	773 Jun 23 j 18:24	7° $\text{B}46'45$	1.33629 AU
evening rise	772 Jul 15 j 07:35	4° $\text{B}27'05$		evening rise	773 Jun 28 j 22:49	18° $\text{B}26'48$	
	772 Jul 30 j 00:08	0° B			773 Jul 04 j 23:52	0° B	
desc. node	772 Aug 03 j 03:39	6° $\text{B}16'20$		desc. node	773 Jul 21 j 00:39	25° $\text{B}42'26$	
evening max el	772 Aug 19 j 11:29	26° $\text{B}29'52$	26°52'22		773 Jul 24 j 06:04	0° B	
	772 Aug 23 j 12:59	0° B		evening max el	773 Aug 01 j 23:09	9° $\text{B}49'24$	27°21'50
retrograde	772 Sep 01 j 14:17	3° $\text{B}46'17$		retrograde	773 Aug 15 j 11:43	17° $\text{B}07'57$	
evening set	772 Sep 08 j 08:13	1° $\text{B}02'19$		evening set	773 Aug 22 j 14:33	14° $\text{B}25'07$	
	772 Sep 09 j 12:28	30° $\text{B}17$		min. Earth dist.	773 Aug 26 j 07:29	11° $\text{B}01'38$	0.64247 AU
min. Earth dist.	772 Sep 12 j 07:10	27° $\text{B}03'21$	0.65631 AU	inferior conj	773 Aug 28 j 16:52	8° $\text{B}29'21$	-3°10'17
inferior conj	772 Sep 14 j 03:37	24° $\text{B}53'43$	-2°15'38	minimum elong	773 Aug 28 j 21:31	8° $\text{B}16'59$	3°08'49
minimum elong	772 Sep 14 j 07:07	24° $\text{B}43'30$	2°14'17	morning rise	773 Sep 04 j 05:25	3° $\text{B}04'35$	
morning rise	772 Sep 20 j 06:37	19° $\text{B}13'19$		direct	773 Sep 06 j 20:04	2° $\text{B}29'53$	
asc. node	772 Sep 21 j 00:03	18° $\text{B}53'32$		asc. node	773 Sep 07 j 21:07	2° $\text{B}35'31$	
direct	772 Sep 23 j 02:51	18° $\text{B}28'42$		morning max el	773 Sep 13 j 08:23	5° $\text{B}56'28$	17°57'49
morning max el	772 Sep 29 j 16:47	22° $\text{B}04'07$	18°20'34		773 Sep 29 j 06:18	0° B	
	772 Oct 05 j 22:29	0° B		morning set	773 Sep 30 j 13:52	2° $\text{B}14'32$	
morning set	772 Oct 18 j 22:20	20° $\text{B}39'02$					
	772 Oct 24 j 17:02	0° B		superior conj	773 Oct 13 j 15:58	24° $\text{B}03'20$	0°22'08
desc. node	772 Oct 30 j 02:58	8° $\text{B}39'07$		minimum elong	773 Oct 13 j 18:27	24° $\text{B}13'25$	0°21'48
				desc. node	773 Oct 16 j 23:59	29° $\text{B}25'24$	
superior conj	772 Nov 03 j 01:28	14° $\text{B}53'00$	-0°25'53		773 Oct 17 j 08:38	0° B	
minimum elong	772 Nov 02 j 22:05	14° $\text{B}39'40$	0°25'26	max. Earth dist.	773 Oct 18 j 18:45	2° $\text{B}15'52$	1.44469 AU
max. Earth dist.	772 Nov 05 j 00:11	17° $\text{B}56'56$	1.45048 AU	evening rise	773 Oct 29 j 21:20	19° $\text{B}37'07$	
	772 Nov 12 j 16:39	0° B			773 Nov 05 j 16:14	0° B	
evening rise	772 Nov 19 j 09:26	10° $\text{B}29'25$		evening max el	773 Nov 26 j 01:38	28° $\text{B}14'54$	20°17'42
greatest brilliancy	772 Nov 30 j 07:55	27° $\text{B}33'09$	-0.8m		773 Nov 27 j 21:49	0° B	
	772 Dec 01 j 22:23	0° B		retrograde	773 Dec 03 j 22:23	2° $\text{B}52'29$	
evening max el	772 Dec 12 j 21:45	14° $\text{B}45'53$	19°20'39	asc. node	773 Dec 04 j 20:20	2° $\text{B}47'45$	
asc. node	772 Dec 17 j 23:17	18° $\text{B}28'15$		evening set	773 Dec 07 j 16:29	1° $\text{B}30'37$	
retrograde	772 Dec 20 j 00:39	18° $\text{B}51'35$			773 Dec 09 j 09:33	30° $\text{B}17$	
evening set	772 Dec 23 j 10:17	17° $\text{B}44'01$		inferior conj	773 Dec 13 j 02:41	25° $\text{B}24'57$	2°33'24
inferior conj	772 Dec 28 j 23:51	11° $\text{B}51'18$	3°08'38	minimum elong	773 Dec 13 j 00:00	25° $\text{B}34'02$	2°32'34
minimum elong	772 Dec 28 j 21:13	11° $\text{B}59'47$	3°08'02	min. Earth dist.	773 Dec 13 j 20:30	24° $\text{B}24'50$	0.67057 AU
min. Earth dist.	772 Dec 30 j 07:00	10° $\text{B}11'00$	0.66178 AU	morning rise	773 Dec 18 j 07:21	19° $\text{B}11'51$	
morning rise	773 Jan 03 j 07:54	5° $\text{B}39'46$		direct	773 Dec 24 j 00:38	16° $\text{B}39'51$	
direct	773 Jan 09 j 15:17	2° $\text{B}52'36$		morning max el	774 Jan 04 j 13:15	23° $\text{B}31'57$	24°46'55
morning max el	773 Jan 22 j 04:43	10° $\text{B}18'27$	26°06'50		774 Jan 10 j 07:26	0° B	
desc. node	773 Jan 26 j 02:09	14° $\text{B}32'04$		desc. node	774 Jan 12 j 23:11	3° $\text{B}20'12$	
	773 Feb 06 j 20:01	0° B			774 Jan 31 j 05:23	0° B	
	773 Feb 25 j 05:44	0° B		morning set	774 Feb 09 j 16:01	15° $\text{B}56'23$	
morning set	773 Feb 27 j 09:38	3° $\text{B}58'13$		max. Earth dist.	774 Feb 13 j 07:52	22° $\text{B}32'28$	1.37223 AU
max. Earth dist.	773 Mar 03 j 08:39	11° $\text{B}29'33$	1.35372 AU		774 Feb 17 j 07:27	0° B	
superior conj	773 Mar 08 j 10:58	21° $\text{B}37'50$	-1°12'01	superior conj	774 Feb 19 j 21:11	4° $\text{B}57'48$	-1°35'48
minimum elong	773 Mar 08 j 14:23	21° $\text{B}55'13$	1°11'27	minimum elong	774 Feb 20 j 01:13	5° $\text{B}17'27$	1°35'18
	773 Mar 12 j 12:40	0° B		evening rise	774 Feb 28 j 08:31	21° $\text{B}49'46$	
asc. node	773 Mar 15 j 22:37	7° $\text{B}03'30$		asc. node	774 Mar 02 j 19:38	26° $\text{B}42'16$	
evening rise	773 Mar 16 j 06:29	7° $\text{B}43'54$			774 Mar 04 j 12:34	0° B	
	773 Mar 28 j 12:02	0° B		evening max el	774 Mar 17 j 07:42	19° $\text{B}17'14$	19°21'27
evening max el	773 Apr 03 j 16:03	7° $\text{B}31'48$	20°25'46	retrograde	774 Mar 26 j 11:46	23° $\text{B}42'21$	
retrograde	773 Apr 14 j 12:38	12° $\text{B}46'11$		evening set	774 Mar 28 j 15:08	23° $\text{B}28'57$	

inferior conj	774 Apr 06 j 01:01	19° Υ 21'00	1°21'42		775 Mar 19 j 01:57	30° \Re H	
minimum elong	774 Apr 06 j 04:11	19° Υ 15'47	1°20'39	min. Earth dist.	775 Mar 21 j 13:24	28° H 07'12	0.57959 AU
min. Earth dist.	774 Apr 08 j 19:37	17° Υ 31'56	0.56222 AU	morning rise	775 Mar 26 j 00:07	25° H 22'40	
desc. node	774 Apr 10 j 22:21	16° Υ 15'29		desc. node	775 Mar 28 j 19:22	24° H 21'17	
morning rise	774 Apr 14 j 14:25	14° Υ 33'24		direct	775 Mar 31 j 18:40	23° H 58'54	
direct	774 Apr 19 j 07:06	13° Υ 43'04			775 Apr 13 j 10:43	0° Υ	
morning max el	774 May 03 j 10:48	20° Υ 54'32	25°04'52	morning max el	775 Apr 15 j 03:32	1° Υ 34'42	26°30'16
	774 May 11 j 06:58	0° B			775 May 05 j 08:41	0° B	
	774 May 28 j 14:35	0° Π		morning set	775 May 14 j 06:06	17° B 24'08	
morning set	774 May 29 j 19:15	2° Π 29'52		asc. node	775 May 16 j 15:58	22° B 32'06	
asc. node	774 May 29 j 18:56	2° Π 28'13			775 May 20 j 02:09	0° Π	
superior conj	774 Jun 05 j 18:56	17° Π 36'44	1°07'57	superior conj	775 May 21 j 06:31	2° Π 35'49	0°47'02
minimum elong	774 Jun 05 j 16:33	17° Π 23'45	1°07'33	minimum elong	775 May 21 j 04:38	2° Π 25'24	0°46'39
max. Earth dist.	774 Jun 07 j 01:16	20° Π 21'43	1.32803 AU	max. Earth dist.	775 May 21 j 12:45	3° Π 10'01	1.32355 AU
	774 Jun 11 j 13:38	0° E		evening rise	775 May 28 j 05:17	17° Π 36'19	
evening rise	774 Jun 12 j 23:01	2° E 52'49			775 Jun 03 j 10:12	0° E	
	774 Jun 27 j 19:24	0° Ω			775 Jun 22 j 21:36	0° Ω	
desc. node	774 Jul 07 j 21:40	14° Ω 25'09		desc. node	775 Jun 24 j 18:40	2° Ω 06'30	
evening max el	774 Jul 15 j 08:00	22° Ω 40'23	27°21'29	evening max el	775 Jun 27 j 11:42	4° Ω 51'45	26°48'14
retrograde	774 Jul 29 j 02:48	29° Ω 57'45		retrograde	775 Jul 11 j 10:48	12° Ω 06'53	
evening set	774 Aug 05 j 07:40	27° Ω 28'15		evening set	775 Jul 18 j 07:11	10° Ω 04'41	
min. Earth dist.	774 Aug 08 j 21:33	24° Ω 33'54	0.62518 AU	min. Earth dist.	775 Jul 22 j 01:29	7° Ω 26'17	0.60529 AU
inferior conj	774 Aug 11 j 19:28	21° Ω 48'24	-3°58'58	inferior conj	775 Jul 25 j 08:06	4° Ω 42'58	-4°35'34
minimum elong	774 Aug 12 j 00:26	21° Ω 36'36	3°57'49	minimum elong	775 Jul 25 j 11:46	4° Ω 35'19	4°35'06
morning rise	774 Aug 18 j 18:34	16° Ω 42'43		morning rise	775 Aug 01 j 18:14	29° E 58'57	
direct	774 Aug 21 j 06:07	16° Ω 14'59			775 Aug 01 j 16:53	30° \Re E	
asc. node	774 Aug 25 j 18:10	17° Ω 48'31		direct	775 Aug 04 j 05:06	29° E 35'49	
morning max el	774 Aug 27 j 23:56	19° Ω 41'05	17°53'02		775 Aug 06 j 15:53	0° Ω	
	774 Sep 04 j 14:26	0° M		morning max el	775 Aug 11 j 12:27	3° Ω 10'45	18°07'16
morning set	774 Sep 13 j 03:34	14° M 53'22		asc. node	775 Aug 12 j 15:12	4° Ω 19'38	
	774 Sep 21 j 17:08	0° L		morning set	775 Aug 27 j 09:35	28° Ω 19'33	
superior conj	774 Sep 24 j 08:36	4° L 31'35	1°01'08		775 Aug 28 j 07:03	0° M	
minimum elong	774 Sep 24 j 13:24	4° L 51'57	1°00'34	superior conj	775 Sep 06 j 03:42	16° M 18'25	1°27'35
max. Earth dist.	774 Oct 01 j 09:34	16° L 12'43	1.43234 AU	minimum elong	775 Sep 06 j 07:43	16° M 36'24	1°27'13
desc. node	774 Oct 03 j 20:59	20° L 12'18		max. Earth dist.	775 Sep 13 j 18:45	29° M 32'32	1.41508 AU
evening rise	774 Oct 09 j 05:31	28° L 39'35			775 Sep 14 j 01:17	0° L	
	774 Oct 10 j 02:13	0° M		evening rise	775 Sep 19 j 03:28	8° L 22'22	
	774 Oct 30 j 10:50	0° J		desc. node	775 Sep 20 j 18:01	10° L 56'55	
evening max el	774 Nov 08 j 23:42	11° J 43'39	21°27'07		775 Oct 03 j 05:41	0° M	
retrograde	774 Nov 17 j 19:36	16° J 58'48		evening max el	775 Oct 22 j 16:29	25° M 14'18	22°44'41
asc. node	774 Nov 21 j 17:23	15° J 33'48			775 Oct 28 j 15:16	0° J	
evening set	774 Nov 22 j 00:06	15° J 21'02		retrograde	775 Nov 01 j 14:43	1° J 08'08	
inferior conj	774 Nov 27 j 08:41	9° J 05'49	1°50'44		775 Nov 05 j 06:01	30° \Re M	
minimum elong	774 Nov 27 j 06:26	9° J 13'35	1°49'54	evening set	775 Nov 06 j 07:28	29° M 13'17	
min. Earth dist.	774 Nov 27 j 14:43	8° J 44'57	0.67565 AU	asc. node	775 Nov 08 j 14:26	26° M 53'57	
morning rise	774 Dec 02 j 12:37	2° J 52'54		inferior conj	775 Nov 11 j 15:56	22° M 52'18	1°02'21
direct	774 Dec 07 j 14:40	0° J 41'39		minimum elong	775 Nov 11 j 14:32	22° M 57'08	1°01'47
morning max el	774 Dec 17 j 22:18	6° J 49'54	23°19'09	min. Earth dist.	775 Nov 11 j 11:15	23° M 08'29	0.67735 AU
desc. node	774 Dec 30 j 20:13	22° J 46'57		morning rise	775 Nov 16 j 21:29	16° M 41'43	
	775 Jan 04 j 21:44	0° Z		direct	775 Nov 21 j 08:46	14° M 53'02	
morning set	775 Jan 21 j 21:36	26° Z 39'04		morning max el	775 Nov 30 j 11:05	20° M 14'19	21°52'50
	775 Jan 23 j 21:04	0° \approx			775 Dec 08 j 15:36	0° J	
max. Earth dist.	775 Jan 26 j 02:51	3° \approx 51'53	1.39321 AU	desc. node	775 Dec 17 j 17:16	12° J 41'41	
superior conj	775 Feb 02 j 17:09	17° \approx 32'03	-1°54'03		775 Dec 29 j 03:43	0° Z	
minimum elong	775 Feb 02 j 20:32	17° \approx 47'49	1°53'49	morning set	776 Jan 01 j 22:00	5° Z 57'15	
	775 Feb 09 j 06:48	0° H		max. Earth dist.	776 Jan 08 j 01:04	15° Z 57'36	1.41415 AU
evening rise	775 Feb 12 j 02:20	5° H 25'59		superior conj	776 Jan 15 j 17:49	29° Z 08'33	-2°02'57
asc. node	775 Feb 17 j 16:40	16° H 00'22		minimum elong	776 Jan 15 j 18:31	29° Z 11'38	2°02'56
	775 Feb 26 j 19:42	0° Υ			776 Jan 16 j 05:30	0° \approx	
evening max el	775 Feb 28 j 09:07	1° Υ 38'44	18°37'10	evening rise	776 Jan 26 j 08:33	18° \approx 24'28	
retrograde	775 Mar 08 j 04:48	5° Υ 27'54			776 Feb 01 j 17:20	0° H	
evening set	775 Mar 10 j 13:21	5° Υ 08'19		asc. node	776 Feb 04 j 13:43	4° H 50'36	
inferior conj	775 Mar 18 j 04:03	0° Υ 42'20	2°42'32	evening max el	776 Feb 11 j 17:18	14° H 28'01	18°12'56
minimum elong	775 Mar 18 j 08:12	0° Υ 34'20	2°41'30	retrograde	776 Feb 18 j 15:58	17° H 57'15	

evening set	776 Feb 21 j 05:56	17° H 29'08		evening max el	777 Jan 25 j 05:08	27° \approx 36'28	18°08'13
inferior conj	776 Feb 28 j 03:53	12° H 42'23	3°28'56		777 Jan 28 j 05:41	0° H	
minimum elong	776 Feb 28 j 06:31	12° H 36'28	3°28'35	retrograde	777 Jan 31 j 17:45	1° H 00'50	
min. Earth dist.	776 Mar 02 j 12:25	9° H 43'39	0.60042 AU	evening set	777 Feb 03 j 12:36	0° H 22'55	
morning rise	776 Mar 06 j 04:58	7° H 00'01			777 Feb 04 j 06:54	30° $\text{R}\approx$	
direct	776 Mar 12 j 18:56	4° H 58'31		inferior conj	777 Feb 09 j 21:25	25° \approx 15'14	3°46'46
desc. node	776 Mar 14 j 16:25	5° H 08'13		minimum elong	777 Feb 09 j 21:53	25° \approx 14'00	3°46'46
morning max el	776 Mar 27 j 01:48	12° H 46'56	27°27'17	min. Earth dist.	777 Feb 12 j 19:09	22° \approx 18'00	0.62135 AU
	776 Apr 09 j 17:05	0° Y		morning rise	777 Feb 16 j 05:59	19° \approx 18'54	
	776 Apr 26 j 13:19	0° B		direct	777 Feb 23 j 04:54	16° \approx 46'56	
morning set	776 Apr 27 j 14:06	2° B 07'40		desc. node	777 Mar 01 j 13:28	18° \approx 37'08	
asc. node	776 May 02 j 12:59	12° B 41'21		morning max el	777 Mar 09 j 06:01	24° \approx 39'59	27°48'18
max. Earth dist.	776 May 04 j 01:09	15° B 58'52	1.32285 AU		777 Mar 14 j 02:47	0° H	
					777 Apr 03 j 01:36	0° Y	
superior conj	776 May 04 j 18:07	17° B 31'55	0°23'15	morning set	777 Apr 11 j 17:15	16° Y 33'44	
minimum elong	776 May 04 j 17:05	17° B 26'16	0°23'01	max. Earth dist.	777 Apr 17 j 10:42	28° Y 35'28	1.32600 AU
	776 May 10 j 11:21	0° II			777 Apr 18 j 02:22	0° B	
evening rise	776 May 11 j 15:14	2° II 28'21					
	776 May 26 j 12:00	0° E		superior conj	777 Apr 19 j 04:03	2° B 19'16	-0°02'40
evening max el	776 Jun 08 j 08:36	16° E 17'11	25°43'48	minimum elong	777 Apr 19 j 04:11	2° B 19'56	0°02'38
desc. node	776 Jun 10 j 15:42	18° E 20'01		behind sun begin	777 Apr 18 j 23:05	1° B 52'18	
retrograde	776 Jun 22 j 09:37	23° E 27'55		behind sun end	777 Apr 19 j 09:16	2° B 47'36	
evening set	776 Jun 28 j 08:34	22° E 03'29		asc. node	777 Apr 19 j 10:04	2° B 51'55	
min. Earth dist.	776 Jul 02 j 21:00	19° E 23'14	0.58473 AU	evening rise	777 Apr 26 j 02:55	17° B 22'08	
inferior conj	776 Jul 06 j 03:08	17° E 02'24	-4°50'27		777 May 02 j 09:00	0° II	
minimum elong	776 Jul 06 j 03:13	17° E 02'15	4°50'27	evening max el	777 May 20 j 23:55	27° II 04'09	24°16'38
morning rise	776 Jul 14 j 00:18	12° E 40'42			777 May 24 j 09:49	0° E	
direct	776 Jul 16 j 12:40	12° E 20'24		desc. node	777 May 28 j 12:42	2° E 32'12	
morning max el	776 Jul 24 j 18:40	16° E 15'02	18°41'45	retrograde	777 Jun 03 j 20:38	4° E 03'17	
asc. node	776 Jul 29 j 12:14	21° E 52'30		evening set	777 Jun 08 j 11:03	3° E 16'10	
	776 Aug 03 j 13:44	0° Ω		min. Earth dist.	777 Jun 14 j 11:03	0° E 17'55	0.56642 AU
morning set	776 Aug 10 j 03:08	12° Ω 19'21			777 Jun 14 j 22:39	30° RII	
				inferior conj	777 Jun 17 j 02:07	28° II 38'48	-4°30'33
superior conj	776 Aug 18 j 20:03	29° Ω 08'07	1°42'06	minimum elong	777 Jun 16 j 21:13	28° II 46'33	4°29'53
minimum elong	776 Aug 18 j 22:06	29° Ω 17'46	1°41'59	morning rise	777 Jun 25 j 10:08	24° II 36'30	
	776 Aug 19 j 07:05	0° np		direct	777 Jun 28 j 01:38	24° II 17'46	
max. Earth dist.	776 Aug 25 j 23:10	12° np 08'51	1.39515 AU	morning max el	777 Jul 07 j 15:42	28° II 44'47	19°37'23
evening rise	776 Aug 30 j 00:49	19° np 10'44			777 Jul 08 j 22:05	0° E	
	776 Sep 05 j 15:04	0° L		asc. node	777 Jul 16 j 09:18	10° E 13'37	
desc. node	776 Sep 06 j 15:04	1° L 34'58		morning set	777 Jul 25 j 04:42	26° E 43'38	
	776 Sep 26 j 12:16	0° M			777 Jul 26 j 19:40	0° Ω	
evening max el	776 Oct 04 j 05:45	8° M 48'45	24°04'49				
retrograde	776 Oct 15 j 06:21	15° M 17'16		superior conj	777 Aug 02 j 04:07	12° Ω 45'20	1°46'37
evening set	776 Oct 20 j 12:57	13° M 04'57		minimum elong	777 Aug 02 j 04:13	12° Ω 45'49	1°46'36
asc. node	776 Oct 25 j 11:28	7° M 20'16		max. Earth dist.	777 Aug 08 j 02:59	24° Ω 11'27	1.37512 AU
inferior conj	776 Oct 25 j 22:41	6° M 42'17	0°09'41		777 Aug 11 j 07:10	0° np	
minimum elong	776 Oct 25 j 22:27	6° M 43'05	0°09'35	evening rise	777 Aug 11 j 22:06	1° np 06'52	
transit middle	776 Oct 25 j 22:27	6° M 43'05	0°09'35	desc. node	777 Aug 24 j 12:05	22° np 01'48	
transit begin	776 Oct 25 j 20:15	6° M 50'32			777 Aug 29 j 19:45	0° L	
transit end	776 Oct 26 j 00:40	6° M 35'38		evening max el	777 Sep 16 j 17:38	22° L 26'38	25°20'31
min. Earth dist.	776 Oct 25 j 07:37	7° M 33'16	0.67578 AU	retrograde	777 Sep 28 j 17:37	29° L 21'33	
morning rise	776 Oct 31 j 07:56	0° M 36'32		evening set	777 Oct 04 j 14:49	26° L 53'07	
	776 Nov 01 j 06:08	30° RL		min. Earth dist.	777 Oct 09 j 01:19	21° L 56'32	0.67094 AU
direct	776 Nov 04 j 05:43	29° L 09'38		inferior conj	777 Oct 10 j 03:09	20° L 32'46	-0°45'57
	776 Nov 07 j 09:50	0° M		minimum elong	777 Oct 10 j 04:19	20° L 29'00	0°45'27
morning max el	776 Nov 12 j 06:38	3° M 48'40	20°35'15	asc. node	777 Oct 12 j 08:32	17° L 45'52	
	776 Dec 01 j 15:24	0° J		morning rise	777 Oct 15 j 17:59	14° L 34'43	
desc. node	776 Dec 03 j 14:20	2° J 56'45		direct	777 Oct 19 j 04:07	13° L 27'04	
morning set	776 Dec 10 j 22:50	14° J 13'04		morning max el	777 Oct 26 j 09:58	17° L 33'21	19°30'43
max. Earth dist.	776 Dec 20 j 07:07	29° J 00'17	1.43217 AU		777 Nov 05 j 01:54	0° M	
	776 Dec 20 j 21:53	0° B		greatest brilliancy	777 Nov 09 j 02:13	5° M 57'27	-0.7m
				morning set	777 Nov 19 j 21:21	22° M 31'28	
superior conj	776 Dec 26 j 18:06	9° B 36'11	-1°57'46	desc. node	777 Nov 20 j 11:23	23° M 25'48	
minimum elong	776 Dec 26 j 13:59	9° B 19'01	1°57'35		777 Nov 24 j 16:48	0° J	
evening rise	777 Jan 07 j 23:10	0° \approx 37'28		max. Earth dist.	777 Dec 02 j 20:44	12° J 49'14	1.44481 AU
	777 Jan 07 j 14:39	0° \approx					
asc. node	777 Jan 21 j 10:46	23° \approx 04'29		superior conj	777 Dec 06 j 15:48	18° J 51'41	-1°34'30

minimum elong	777 Dec 06 j 07:32	18° ♄ 18'40	1°33'44	minimum elong	778 Nov 15 j 12:05	26° ♄ 54'06	0°53'02
	777 Dec 13 j 12:52	0° ♄		max. Earth dist.	778 Nov 15 j 14:40	27° ♄ 04'16	1.45055 AU
evening rise	777 Dec 20 j 17:49	11° ♄ 56'56			778 Nov 17 j 11:23	0° ♄	
	777 Dec 31 j 15:39	0° ♄		evening rise	778 Dec 01 j 13:17	22° ♄ 18'35	
asc. node	778 Jan 08 j 07:50	10° ♄ 30'35			778 Dec 06 j 08:33	0° ♄	
evening max el	778 Jan 08 j 17:38	10° ♄ 56'01	18°22'20	greatest brilliancy	778 Dec 09 j 02:56	4° ♄ 24'57	-0.8m
retrograde	778 Jan 15 j 05:43	14° ♄ 28'25		evening max el	778 Dec 23 j 04:17	24° ♄ 21'44	18°54'27
evening set	778 Jan 18 j 05:26	13° ♄ 39'54		asc. node	778 Dec 26 j 04:52	26° ♄ 55'52	
inferior conj	778 Jan 24 j 04:35	8° ♄ 12'42	3°43'25	retrograde	778 Dec 29 j 23:52	28° ♄ 12'57	
minimum elong	778 Jan 24 j 03:19	8° ♄ 16'21	3°43'20	evening set	779 Jan 02 j 05:24	27° ♄ 12'49	
min. Earth dist.	778 Jan 26 j 11:21	5° ♄ 36'53	0.63995 AU	inferior conj	779 Jan 07 j 21:46	21° ♄ 28'29	3°24'44
morning rise	778 Jan 30 j 00:35	2° ♄ 07'51		minimum elong	779 Jan 07 j 19:26	21° ♄ 35'44	3°24'18
	778 Feb 02 j 11:53	30° ♄		min. Earth dist.	779 Jan 09 j 13:11	19° ♄ 26'08	0.65496 AU
direct	778 Feb 05 j 22:36	29° ♄ 19'00		morning rise	779 Jan 13 j 09:08	15° ♄ 18'28	
	778 Feb 09 j 14:13	0° ♄		direct	779 Jan 19 j 23:08	12° ♄ 27'07	
desc. node	778 Feb 16 j 10:32	4° ♄ 14'55		morning max el	779 Feb 02 j 00:21	20° ♄ 06'34	26°45'15
morning max el	778 Feb 19 j 14:27	7° ♄ 10'06	27°32'42	desc. node	779 Feb 03 j 07:36	21° ♄ 27'12	
	778 Mar 09 j 04:00	0° ♄			779 Feb 10 j 12:41	0° ♄	
	778 Mar 26 j 06:11	0° ♄			779 Mar 02 j 05:48	0° ♄	
morning set	778 Mar 26 j 13:01	0° ♄ 33'40		morning set	779 Mar 09 j 22:02	13° ♄ 57'34	
max. Earth dist.	778 Mar 31 j 13:28	10° ♄ 46'40	1.33324 AU	max. Earth dist.	779 Mar 14 j 05:46	22° ♄ 24'05	1.34493 AU
					779 Mar 17 j 23:23	0° ♄	
superior conj	778 Apr 03 j 10:29	16° ♄ 51'11	-0°29'47	superior conj	779 Mar 18 j 11:16	1° ♄ 01'32	-0°56'58
minimum elong	778 Apr 03 j 11:56	16° ♄ 58'56	0°29'28	minimum elong	779 Mar 18 j 14:03	1° ♄ 15'57	0°56'27
asc. node	778 Apr 06 j 07:07	22° ♄ 59'06		asc. node	779 Mar 24 j 04:10	12° ♄ 58'56	
	778 Apr 09 j 13:45	0° ♄		evening rise	779 Mar 25 j 23:58	16° ♄ 47'39	
evening rise	778 Apr 10 j 14:27	2° ♄ 10'35			779 Apr 01 j 16:16	0° ♄	
	778 Apr 26 j 03:41	0° ♄		evening max el	779 Apr 14 j 12:51	18° ♄ 23'19	21°10'58
evening max el	778 May 02 j 14:54	7° ♄ 35'49	22°40'56	retrograde	779 Apr 26 j 09:17	24° ♄ 09'16	
desc. node	778 May 15 j 09:42	14° ♄ 07'30		evening set	779 Apr 28 j 15:57	23° ♄ 57'13	
retrograde	778 May 15 j 19:13	14° ♄ 07'52		desc. node	779 May 02 j 06:45	22° ♄ 53'21	
evening set	778 May 18 j 23:37	13° ♄ 45'36		inferior conj	779 May 08 j 00:42	19° ♄ 58'06	-1°38'45
min. Earth dist.	778 May 26 j 23:03	10° ♄ 16'38	0.55369 AU	minimum elong	779 May 07 j 20:05	20° ♄ 04'37	1°37'07
inferior conj	778 May 28 j 06:25	9° ♄ 31'51	-3°25'03	min. Earth dist.	779 May 08 j 11:42	19° ♄ 42'36	0.54950 AU
minimum elong	778 May 27 j 22:53	9° ♄ 42'38	3°23'02	morning rise	779 May 17 j 00:22	15° ♄ 56'29	
morning rise	778 Jun 06 j 00:26	5° ♄ 39'09		direct	779 May 20 j 06:20	15° ♄ 33'37	
direct	778 Jun 08 j 20:33	5° ♄ 20'31		morning max el	779 Jun 02 j 01:05	21° ♄ 38'53	22°26'57
morning max el	778 Jun 20 j 01:43	10° ♄ 32'58	20°53'44		779 Jun 09 j 04:58	0° ♄	
asc. node	778 Jul 03 j 06:22	29° ♄ 11'36		asc. node	779 Jun 20 j 03:25	18° ♄ 36'32	
	778 Jul 03 j 16:50	0° ♄		morning set	779 Jun 23 j 21:57	26° ♄ 17'35	
morning set	778 Jul 09 j 11:41	11° ♄ 25'22			779 Jun 25 j 16:12	0° ♄	
superior conj	778 Jul 16 j 23:25	26° ♄ 57'22	1°43'07	superior conj	779 Jul 01 j 02:21	11° ♄ 32'37	1°33'18
minimum elong	778 Jul 16 j 22:04	26° ♄ 50'25	1°43'04	minimum elong	779 Jul 01 j 00:09	11° ♄ 21'00	1°33'06
	778 Jul 18 j 11:12	0° ♄		max. Earth dist.	779 Jul 04 j 04:59	18° ♄ 03'11	1.34267 AU
max. Earth dist.	778 Jul 21 j 11:42	6° ♄ 02'28	1.35715 AU	evening rise	779 Jul 08 j 23:47	27° ♄ 40'48	
evening rise	778 Jul 25 j 15:22	14° ♄ 01'25			779 Jul 10 j 04:30	0° ♄	
	778 Aug 03 j 16:05	0° ♄			779 Jul 27 j 21:46	0° ♄	
desc. node	778 Aug 11 j 09:05	12° ♄ 11'52		desc. node	779 Jul 29 j 06:04	1° ♄ 57'01	
	778 Aug 24 j 14:16	0° ♄		evening max el	779 Aug 12 j 17:20	19° ♄ 32'57	27°08'10
evening max el	778 Aug 30 j 05:28	6° ♄ 04'13	26°24'08	retrograde	779 Aug 26 j 00:59	26° ♄ 51'51	
retrograde	778 Sep 11 j 23:57	13° ♄ 15'47		evening set	779 Sep 01 j 23:22	24° ♄ 06'41	
evening set	778 Sep 18 j 11:05	10° ♄ 35'13		min. Earth dist.	779 Sep 05 j 19:24	20° ♄ 23'27	0.65086 AU
min. Earth dist.	778 Sep 22 j 14:00	6° ♄ 15'21	0.66270 AU	inferior conj	779 Sep 07 j 21:26	18° ♄ 02'57	-2°39'15
inferior conj	778 Sep 24 j 03:27	4° ♄ 21'13	-1°42'55	minimum elong	779 Sep 08 j 01:29	17° ♄ 51'33	2°37'49
minimum elong	778 Sep 24 j 06:08	4° ♄ 13'05	1°41'51	morning rise	779 Sep 14 j 04:23	12° ♄ 29'04	
	778 Sep 28 j 02:36	30° ♄		asc. node	779 Sep 16 j 02:38	11° ♄ 52'41	
asc. node	778 Sep 29 j 05:35	29° ♄ 05'50		direct	779 Sep 16 j 21:51	11° ♄ 49'14	
morning rise	778 Sep 30 j 01:36	28° ♄ 33'43		morning max el	779 Sep 23 j 10:23	15° ♄ 19'58	18°08'45
direct	778 Oct 03 j 02:12	27° ♄ 41'51			779 Oct 03 j 22:30	0° ♄	
	778 Oct 08 j 06:51	0° ♄		morning set	779 Oct 11 j 16:27	12° ♄ 46'32	
morning max el	778 Oct 09 j 20:02	1° ♄ 25'46	18°41'30		779 Oct 22 j 05:13	0° ♄	
	778 Oct 29 j 11:13	0° ♄		desc. node	779 Oct 25 j 05:25	4° ♄ 49'00	
morning set	778 Oct 30 j 16:30	1° ♄ 56'25		superior conj	779 Oct 25 j 23:10	5° ♄ 59'41	-0°04'56
desc. node	778 Nov 07 j 08:25	14° ♄ 04'37		minimum elong	779 Oct 25 j 22:33	5° ♄ 57'13	0°04'51
superior conj	778 Nov 15 j 18:50	27° ♄ 20'41	-0°53'52				

behind sun begin	779 Oct 25 j 12:08	5° \mathbb{M} 15'45		morning set	780 Sep 22 j 18:11	24° \mathbb{M} 51'12	
behind sun end	779 Oct 26 j 08:58	6° \mathbb{M} 38'39			780 Sep 25 j 17:25	0° \mathbb{A}	
max. Earth dist.	779 Oct 29 j 09:15	11° \mathbb{M} 24'36	1.44889 AU				
	779 Nov 10 j 06:52	0° \mathbb{A}		superior conj	780 Oct 05 j 00:05	15° \mathbb{A} 41'23	0°40'07
evening rise	779 Nov 11 j 10:17	1° \mathbb{A} 46'20		minimum elong	780 Oct 05 j 04:03	15° \mathbb{A} 57'43	0°39'36
greatest brilliancy	779 Nov 24 j 07:30	21° \mathbb{A} 33'22	-0.7m	max. Earth dist.	780 Oct 11 j 02:03	25° \mathbb{A} 34'34	1.44018 AU
	779 Nov 30 j 03:02	0° \mathbb{B}		desc. node	780 Oct 11 j 02:24	25° \mathbb{A} 35'57	
evening max el	779 Dec 06 j 11:02	7° \mathbb{B} 49'59	19°43'10		780 Oct 13 j 20:47	0° \mathbb{M}	
asc. node	779 Dec 13 j 01:53	12° \mathbb{B} 05'17		evening rise	780 Oct 20 j 18:21	10° \mathbb{M} 46'06	
retrograde	779 Dec 13 j 21:02	12° \mathbb{B} 08'50			780 Nov 02 j 11:52	0° \mathbb{A}	
evening set	779 Dec 17 j 09:56	10° \mathbb{B} 55'35		evening max el	780 Nov 18 j 12:32	21° \mathbb{A} 19'12	20°46'00
inferior conj	779 Dec 22 j 21:50	4° \mathbb{B} 56'55	2°54'44	retrograde	780 Nov 26 j 18:41	26° \mathbb{A} 12'12	
minimum elong	779 Dec 22 j 19:07	5° \mathbb{B} 05'55	2°54'00	asc. node	780 Nov 28 j 22:56	25° \mathbb{A} 45'29	
min. Earth dist.	779 Dec 23 j 23:09	3° \mathbb{B} 33'25	0.66598 AU	evening set	780 Nov 30 j 16:55	24° \mathbb{A} 43'58	
	779 Dec 26 j 21:28	30° \mathbb{R} \mathbb{A}		inferior conj	780 Dec 06 j 02:16	18° \mathbb{A} 34'03	2°16'06
morning rise	779 Dec 28 j 04:03	28° \mathbb{A} 44'14		minimum elong	780 Dec 05 j 23:43	18° \mathbb{A} 42'47	2°15'14
direct	780 Jan 03 j 05:38	26° \mathbb{A} 02'25		min. Earth dist.	780 Dec 06 j 15:00	17° \mathbb{A} 50'32	0.67320 AU
	780 Jan 11 j 19:54	0° \mathbb{B}		morning rise	780 Dec 11 j 06:18	12° \mathbb{A} 20'42	
morning max el	780 Jan 15 j 09:27	3° \mathbb{B} 16'22	25°34'20	direct	780 Dec 16 j 17:15	9° \mathbb{A} 56'46	
desc. node	780 Jan 21 j 04:39	9° \mathbb{B} 46'25		morning max el	780 Dec 27 j 17:42	16° \mathbb{A} 31'11	24°09'49
	780 Feb 04 j 18:49	0° \approx		desc. node	781 Jan 07 j 01:40	28° \mathbb{A} 52'37	
morning set	780 Feb 20 j 15:49	26° \approx 32'25			781 Jan 07 j 21:45	0° \mathbb{B}	
	780 Feb 22 j 12:57	0° \mathbb{H}			781 Jan 27 j 18:55	0° \approx	
max. Earth dist.	780 Feb 24 j 10:11	3° \mathbb{H} 32'14	1.36110 AU	morning set	781 Feb 01 j 12:24	8° \approx 00'23	
				max. Earth dist.	781 Feb 05 j 06:13	14° \approx 36'03	1.38098 AU
superior conj	780 Mar 01 j 03:48	14° \mathbb{H} 43'04	-1°22'36				
minimum elong	780 Mar 01 j 07:35	15° \mathbb{H} 02'00	1°22'02	superior conj	781 Feb 12 j 08:32	27° \approx 45'18	-1°44'25
	780 Mar 08 j 16:13	0° \mathbb{Y}		minimum elong	781 Feb 12 j 12:29	28° \approx 04'14	1°44'02
evening rise	780 Mar 09 j 05:26	1° \mathbb{Y} 07'14			781 Feb 13 j 12:36	0° \mathbb{H}	
asc. node	780 Mar 10 j 01:12	2° \mathbb{Y} 47'11		evening rise	781 Feb 21 j 04:20	15° \mathbb{H} 01'17	
evening max el	780 Mar 26 j 22:08	29° \mathbb{Y} 47'19	19°56'05	asc. node	781 Feb 24 j 22:14	22° \mathbb{H} 17'58	
	780 Mar 27 j 03:27	0° \mathbb{B}			781 Mar 01 j 03:50	0° \mathbb{Y}	
retrograde	780 Apr 06 j 01:12	4° \mathbb{B} 39'35		evening max el	781 Mar 09 j 18:24	11° \mathbb{Y} 49'32	19°00'11
evening set	780 Apr 08 j 02:49	4° \mathbb{B} 28'19		retrograde	781 Mar 18 j 07:06	15° \mathbb{Y} 56'51	
inferior conj	780 Apr 16 j 23:21	0° \mathbb{B} 28'05	0°20'23	evening set	781 Mar 20 j 12:40	15° \mathbb{Y} 41'07	
minimum elong	780 Apr 17 j 00:15	0° \mathbb{B} 26'42	0°20'04	inferior conj	781 Mar 28 j 14:19	11° \mathbb{Y} 26'22	2°00'18
	780 Apr 17 j 17:43	30° \mathbb{R} \mathbb{Y}		minimum elong	781 Mar 28 j 18:20	11° \mathbb{Y} 19'18	1°59'05
desc. node	780 Apr 18 j 03:47	29° \mathbb{Y} 44'38		min. Earth dist.	781 Mar 31 j 17:30	9° \mathbb{Y} 15'26	0.56901 AU
min. Earth dist.	780 Apr 19 j 01:47	29° \mathbb{Y} 11'23	0.55504 AU	desc. node	781 Apr 05 j 00:51	6° \mathbb{Y} 46'11	
morning rise	780 Apr 25 j 19:28	25° \mathbb{Y} 59'34		morning rise	781 Apr 05 j 20:57	6° \mathbb{Y} 24'34	
direct	780 Apr 29 j 21:26	25° \mathbb{Y} 22'48		direct	781 Apr 11 j 01:20	5° \mathbb{Y} 20'57	
	780 May 11 j 03:24	0° \mathbb{B}		morning max el	781 Apr 25 j 07:56	12° \mathbb{Y} 44'16	25°43'49
morning max el	780 May 13 j 17:17	2° \mathbb{B} 14'56	24°08'09		781 May 08 j 18:56	0° \mathbb{B}	
	780 Jun 01 j 19:59	0° \mathbb{I}		morning set	781 May 22 j 21:21	26° \mathbb{B} 11'24	
asc. node	780 Jun 06 j 00:27	8° \mathbb{I} 21'18		asc. node	781 May 23 j 21:29	28° \mathbb{B} 19'20	
morning set	780 Jun 07 j 09:43	11° \mathbb{I} 14'57			781 May 24 j 16:18	0° \mathbb{I}	
superior conj	780 Jun 14 j 10:17	26° \mathbb{I} 22'43	1°18'26	superior conj	781 May 29 j 21:02	11° \mathbb{I} 19'45	0°59'29
minimum elong	780 Jun 14 j 07:50	26° \mathbb{I} 09'24	1°18'05	minimum elong	781 May 29 j 18:49	11° \mathbb{I} 07'33	0°59'04
	780 Jun 16 j 02:38	0° \mathbb{E}		max. Earth dist.	781 May 30 j 16:42	13° \mathbb{I} 07'20	1.32570 AU
max. Earth dist.	780 Jun 16 j 07:26	0° \mathbb{E} 25'44	1.33223 AU	evening rise	781 Jun 05 j 22:22	26° \mathbb{I} 27'42	
evening rise	780 Jun 21 j 19:15	11° \mathbb{E} 53'17			781 Jun 07 j 15:51	0° \mathbb{E}	
	780 Jul 01 j 10:06	0° \mathbb{Q}			781 Jun 24 j 21:20	0° \mathbb{Q}	
desc. node	780 Jul 15 j 03:04	21° \mathbb{Q} 06'38		desc. node	781 Jul 02 j 00:06	9° \mathbb{Q} 25'38	
	780 Jul 22 j 11:59	0° \mathbb{M}		evening max el	781 Jul 07 j 11:17	15° \mathbb{Q} 17'50	27°11'31
evening max el	780 Jul 25 j 04:06	2° \mathbb{M} 42'01	27°25'40	retrograde	781 Jul 21 j 08:09	22° \mathbb{Q} 33'41	
retrograde	780 Aug 07 j 20:04	10° \mathbb{M} 00'57		evening set	781 Jul 28 j 10:45	20° \mathbb{Q} 14'35	
evening set	780 Aug 15 j 00:35	7° \mathbb{M} 22'12		min. Earth dist.	781 Aug 01 j 01:29	17° \mathbb{Q} 28'40	0.61691 AU
min. Earth dist.	780 Aug 18 j 15:38	4° \mathbb{M} 12'04	0.63546 AU	inferior conj	781 Aug 04 j 03:37	14° \mathbb{Q} 42'15	-4°16'31
inferior conj	780 Aug 21 j 06:32	1° \mathbb{M} 32'33	-3°32'00	minimum elong	781 Aug 04 j 08:17	14° \mathbb{Q} 31'44	4°15'37
minimum elong	780 Aug 21 j 11:28	1° \mathbb{M} 20'00	3°30'36	morning rise	781 Aug 11 j 07:21	9° \mathbb{Q} 45'09	
	780 Aug 22 j 19:41	30° \mathbb{R} \mathbb{Q}		direct	781 Aug 13 j 18:21	9° \mathbb{Q} 19'33	
morning rise	780 Aug 27 j 23:28	26° \mathbb{Q} 15'23		asc. node	781 Aug 19 j 20:43	12° \mathbb{Q} 01'51	
direct	780 Aug 30 j 12:22	25° \mathbb{Q} 44'07		morning max el	781 Aug 20 j 16:51	12° \mathbb{Q} 48'24	17°56'42
asc. node	780 Sep 01 j 23:40	26° \mathbb{Q} 14'17			781 Sep 01 j 07:10	0° \mathbb{M}	
morning max el	780 Sep 06 j 02:19	29° \mathbb{Q} 09'51	17°53'28	morning set	781 Sep 05 j 15:33	7° \mathbb{M} 52'18	
	780 Sep 06 j 21:34	0° \mathbb{M}					

superior conj	781 Sep 16 j 04:24	26° \mathbb{M} 44'04	1°13'55		782 Aug 24 j 13:24	0° \mathbb{M}	
minimum elong	781 Sep 16 j 09:08	27° \mathbb{M} 04'35	1°13'24				
	781 Sep 18 j 01:51	0° \mathbb{L}		superior conj	782 Aug 29 j 09:13	8° \mathbb{M} 59'13	1°35'07
max. Earth dist.	781 Sep 23 j 14:54	9° \mathbb{L} 18'25	1.42550 AU	minimum elong	782 Aug 29 j 12:27	9° \mathbb{M} 14'02	1°34'52
desc. node	781 Sep 27 j 23:26	16° \mathbb{L} 22'25		max. Earth dist.	782 Sep 05 j 22:16	22° \mathbb{M} 21'22	1.40672 AU
evening rise	781 Sep 30 j 06:39	20° \mathbb{L} 01'39			782 Sep 10 j 11:29	0° \mathbb{L}	
	781 Oct 06 j 17:18	0° \mathbb{M}		evening rise	782 Sep 10 j 13:54	0° \mathbb{L} 09'57	
	781 Oct 28 j 01:18	0° \mathbb{J}		desc. node	782 Sep 14 j 20:28	7° \mathbb{L} 04'26	
evening max el	781 Nov 01 j 08:24	4° \mathbb{J} 49'38	21°59'27		782 Sep 30 j 04:53	0° \mathbb{M}	
retrograde	781 Nov 10 j 15:05	10° \mathbb{J} 20'44		evening max el	782 Oct 14 j 23:25	18° \mathbb{M} 21'27	23°18'51
evening set	781 Nov 15 j 00:39	8° \mathbb{J} 35'47		retrograde	782 Oct 25 j 08:49	24° \mathbb{M} 30'35	
asc. node	781 Nov 15 j 19:58	7° \mathbb{J} 53'25		evening set	782 Oct 30 j 07:26	22° \mathbb{M} 28'00	
inferior conj	781 Nov 20 j 09:02	2° \mathbb{J} 17'54	1°30'50	asc. node	782 Nov 02 j 17:01	18° \mathbb{M} 45'05	
minimum elong	781 Nov 20 j 07:06	2° \mathbb{J} 24'35	1°30'05	inferior conj	782 Nov 04 j 16:16	16° \mathbb{M} 05'48	0°40'27
min. Earth dist.	781 Nov 20 j 10:26	2° \mathbb{J} 13'02	0.67684 AU	minimum elong	782 Nov 04 j 15:20	16° \mathbb{M} 09'02	0°40'04
	781 Nov 22 j 01:29	30° \mathbb{R} \mathbb{M}		min. Earth dist.	782 Nov 04 j 07:05	16° \mathbb{M} 37'21	0.67708 AU
morning rise	781 Nov 25 j 13:24	26° \mathbb{M} 05'54		morning rise	782 Nov 09 j 23:10	9° \mathbb{M} 57'14	
direct	781 Nov 30 j 09:11	24° \mathbb{M} 04'04		direct	782 Nov 14 j 04:29	8° \mathbb{M} 18'13	
morning max el	781 Dec 10 j 03:50	29° \mathbb{M} 51'30	22°41'46	morning max el	782 Nov 22 j 19:20	13° \mathbb{M} 20'14	21°18'34
	781 Dec 10 j 07:11	0° \mathbb{J}			782 Dec 05 j 21:48	0° \mathbb{J}	
desc. node	781 Dec 24 j 22:42	18° \mathbb{J} 32'43		desc. node	782 Dec 11 j 19:45	8° \mathbb{J} 36'44	
	782 Jan 01 j 17:57	0° \mathbb{Z}		morning set	782 Dec 23 j 18:37	26° \mathbb{J} 53'46	
morning set	782 Jan 13 j 05:46	18° \mathbb{Z} 07'08			782 Dec 25 j 17:39	0° \mathbb{Z}	
max. Earth dist.	782 Jan 18 j 02:09	26° \mathbb{Z} 14'27	1.40239 AU	max. Earth dist.	782 Dec 31 j 04:02	8° \mathbb{Z} 46'46	1.42238 AU
	782 Jan 20 j 06:33	0° \mathbb{A}					
				superior conj	783 Jan 07 j 11:52	21° \mathbb{Z} 05'20	-2°02'45
superior conj	782 Jan 25 j 21:01	9° \mathbb{A} 57'10	-1°59'13	minimum elong	783 Jan 07 j 10:43	21° \mathbb{Z} 00'22	2°02'44
minimum elong	782 Jan 25 j 23:33	10° \mathbb{A} 08'42	1°59'07		783 Jan 12 j 14:15	0° \mathbb{A}	
evening rise	782 Feb 04 j 17:42	28° \mathbb{A} 22'48		evening rise	783 Jan 18 j 17:49	11° \mathbb{A} 03'13	
	782 Feb 05 j 14:13	0° \mathbb{H}		asc. node	783 Jan 29 j 16:20	0° \mathbb{H} 01'09	
asc. node	782 Feb 11 j 19:17	11° \mathbb{H} 25'14			783 Jan 29 j 16:02	0° \mathbb{H}	
evening max el	782 Feb 20 j 23:06	24° \mathbb{H} 23'56	18°24'20	evening max el	783 Feb 04 j 09:08	7° \mathbb{H} 21'55	18°08'28
retrograde	782 Feb 28 j 08:14	28° \mathbb{H} 02'34		retrograde	783 Feb 11 j 02:23	10° \mathbb{H} 47'44	
evening set	782 Mar 02 j 19:18	27° \mathbb{H} 39'25		evening set	783 Feb 13 j 18:23	10° \mathbb{H} 15'37	
inferior conj	782 Mar 10 j 02:24	23° \mathbb{H} 04'21	3°06'09	inferior conj	783 Feb 20 j 10:16	5° \mathbb{H} 19'35	3°39'31
minimum elong	782 Mar 10 j 06:06	22° \mathbb{H} 56'45	3°05'25	minimum elong	783 Feb 20 j 11:59	5° \mathbb{H} 15'30	3°39'23
min. Earth dist.	782 Mar 13 j 12:53	20° \mathbb{H} 16'27	0.58834 AU	min. Earth dist.	783 Feb 23 j 14:56	2° \mathbb{H} 18'40	0.60948 AU
morning rise	782 Mar 17 j 14:21	17° \mathbb{H} 34'04			783 Feb 26 j 10:32	30° \mathbb{R} \mathbb{A}	
desc. node	782 Mar 22 j 21:54	15° \mathbb{H} 56'12		morning rise	783 Feb 27 j 03:52	29° \mathbb{A} 30'05	
direct	782 Mar 23 j 18:19	15° \mathbb{H} 54'18		direct	783 Mar 05 j 22:42	27° \mathbb{A} 14'33	
morning max el	782 Apr 07 j 02:41	23° \mathbb{H} 35'30	26°58'35	desc. node	783 Mar 09 j 18:56	27° \mathbb{A} 54'44	
	782 Apr 12 j 21:11	0° \mathbb{Y}			783 Mar 13 j 23:36	0° \mathbb{H}	
	782 May 01 j 19:28	0° \mathbb{B}		morning max el	783 Mar 20 j 03:53	5° \mathbb{H} 05'52	27°40'52
morning set	782 May 07 j 07:12	11° \mathbb{B} 01'30			783 Apr 07 j 17:37	0° \mathbb{Y}	
asc. node	782 May 10 j 18:33	18° \mathbb{B} 25'48		morning set	783 Apr 21 j 13:29	25° \mathbb{Y} 39'01	
					783 Apr 23 j 15:32	0° \mathbb{B}	
superior conj	782 May 14 j 08:49	26° \mathbb{B} 17'43	0°37'15	max. Earth dist.	783 Apr 27 j 17:03	8° \mathbb{B} 44'10	1.32371 AU
minimum elong	782 May 14 j 07:15	26° \mathbb{B} 09'05	0°36'54	asc. node	783 Apr 27 j 15:37	8° \mathbb{B} 36'19	
max. Earth dist.	782 May 14 j 05:12	25° \mathbb{B} 57'52	1.32288 AU				
	782 May 16 j 01:16	0° \mathbb{I}		superior conj	783 Apr 28 j 19:56	11° \mathbb{B} 10'58	0°12'28
evening rise	782 May 21 j 06:29	11° \mathbb{I} 15'26		minimum elong	783 Apr 28 j 19:22	11° \mathbb{B} 07'51	0°12'21
	782 May 30 j 21:25	0° \mathbb{E}		behind sun begin	783 Apr 28 j 16:10	10° \mathbb{B} 50'21	
desc. node	782 Jun 18 j 21:09	26° \mathbb{E} 32'50		behind sun end	783 Apr 28 j 22:34	11° \mathbb{B} 25'20	
evening max el	782 Jun 19 j 12:13	27° \mathbb{E} 09'19	26°24'14	evening rise	783 May 05 j 17:25	26° \mathbb{B} 09'10	
	782 Jun 22 j 19:18	0° \mathbb{O}			783 May 07 j 13:32	0° \mathbb{I}	
retrograde	782 Jul 03 j 12:04	4° \mathbb{O} 22'14			783 May 25 j 01:12	0° \mathbb{E}	
evening set	782 Jul 10 j 01:12	2° \mathbb{O} 35'16		evening max el	783 Jun 01 j 06:10	8° \mathbb{E} 16'03	25°08'39
min. Earth dist.	782 Jul 14 j 01:14	29° \mathbb{E} 58'32	0.59648 AU	desc. node	783 Jun 05 j 18:11	11° \mathbb{E} 59'35	
	782 Jul 14 j 00:27	30° \mathbb{R} \mathbb{E}		retrograde	783 Jun 15 j 06:21	15° \mathbb{E} 23'51	
inferior conj	782 Jul 17 j 09:08	27° \mathbb{E} 22'26	-4°45'17	evening set	783 Jun 20 j 16:37	14° \mathbb{E} 15'49	
minimum elong	782 Jul 17 j 11:34	27° \mathbb{E} 17'40	4°45'06	min. Earth dist.	783 Jun 25 j 17:48	11° \mathbb{E} 29'50	0.57643 AU
morning rise	782 Jul 24 j 23:58	22° \mathbb{E} 47'59		inferior conj	783 Jun 28 j 19:49	9° \mathbb{E} 24'22	-4°47'04
direct	782 Jul 27 j 11:27	22° \mathbb{E} 26'04		minimum elong	783 Jun 28 j 17:49	9° \mathbb{E} 27'48	4°46'58
morning max el	782 Aug 04 j 03:00	26° \mathbb{E} 07'36	18°19'30	morning rise	783 Jul 06 j 21:42	5° \mathbb{E} 12'05	
asc. node	782 Aug 06 j 17:46	29° \mathbb{E} 00'31		direct	783 Jul 09 j 11:14	4° \mathbb{E} 52'38	
	782 Aug 07 j 12:21	0° \mathbb{O}		morning max el	783 Jul 18 j 05:45	8° \mathbb{E} 59'03	19°02'55
morning set	782 Aug 20 j 02:57	21° \mathbb{O} 33'48		asc. node	783 Jul 24 j 14:50	16° \mathbb{E} 55'43	

	783 Aug 01 j 01:33	0°♎		morning rise	784 Jun 16 j 22:50	16°♐45'07	
morning set	783 Aug 04 j 00:16	5°♎45'06		direct	784 Jun 19 j 15:41	16°♐26'52	
				morning max el	784 Jun 29 j 22:20	21°♐12'14	20°07'26
superior conj	783 Aug 12 j 08:56	22°♎11'29	1°45'07		784 Jul 07 j 02:05	0°♐	
minimum elong	783 Aug 12 j 10:07	22°♎17'09	1°45'04	asc. node	784 Jul 10 j 11:53	5°♐33'38	
	783 Aug 16 j 12:10	0°♐		morning set	784 Jul 18 j 04:25	20°♐17'11	
max. Earth dist.	783 Aug 19 j 01:38	4°♐40'46	1.38641 AU		784 Jul 22 j 22:21	0°♎	
evening rise	783 Aug 22 j 21:44	11°♐27'45					
desc. node	783 Sep 01 j 17:30	27°♐38'18		superior conj	784 Jul 25 j 22:16	6°♎04'46	1°45'59
	783 Sep 03 j 05:59	0°♎		minimum elong	784 Jul 25 j 21:41	6°♎01'48	1°45'59
	783 Sep 25 j 14:19	0°♎		max. Earth dist.	784 Jul 31 j 06:22	16°♎32'54	1.36709 AU
evening max el	783 Sep 27 j 11:38	1°♎56'36	24°37'58	evening rise	784 Aug 04 j 04:07	23°♎50'14	
retrograde	783 Oct 08 j 22:49	8°♎38'14			784 Aug 07 j 14:56	0°♐	
evening set	783 Oct 14 j 11:36	6°♎18'32		desc. node	784 Aug 18 j 14:32	17°♐58'32	
min. Earth dist.	783 Oct 19 j 02:36	1°♎01'34	0.67408 AU		784 Aug 26 j 21:54	0°♎	
inferior conj	783 Oct 19 j 22:15	29°♎56'05	-0°13'39	evening max el	784 Sep 08 j 23:19	15°♎34'32	25°49'35
minimum elong	783 Oct 19 j 22:35	29°♎54'58	0°13'30	retrograde	784 Sep 21 j 08:11	22°♎38'25	
transit middle	783 Oct 19 j 22:35	29°♎54'58	0°13'30	evening set	784 Sep 27 j 11:20	20°♎04'18	
transit begin	783 Oct 19 j 21:04	0°♎00'04		min. Earth dist.	784 Oct 01 j 18:34	15°♎22'56	0.66779 AU
transit end	783 Oct 20 j 00:07	29°♎49'52		inferior conj	784 Oct 03 j 01:11	13°♎45'55	-1°10'03
	783 Oct 19 j 21:05	30°♎♎		minimum elong	784 Oct 03 j 02:59	13°♎40'12	1°09'18
asc. node	783 Oct 20 j 14:03	29°♎03'40		asc. node	784 Oct 06 j 11:06	9°♎46'11	
morning rise	783 Oct 25 j 09:40	23°♎53'20		morning rise	784 Oct 08 j 18:54	7°♎51'45	
direct	783 Oct 29 j 02:08	22°♎35'12		direct	784 Oct 12 j 00:38	6°♎51'19	
morning max el	783 Nov 05 j 18:18	26°♎59'24	20°06'03	morning max el	784 Oct 19 j 00:39	10°♎47'17	19°07'46
	783 Nov 08 j 11:40	0°♎			784 Nov 02 j 00:53	0°♎	
desc. node	783 Nov 28 j 16:46	28°♎57'59		morning set	784 Nov 10 j 20:18	13°♎41'35	
	783 Nov 29 j 08:58	0°♎		desc. node	784 Nov 14 j 13:48	19°♎31'23	
morning set	783 Dec 02 j 15:12	5°♎♎01'08			784 Nov 21 j 06:23	0°♎	
max. Earth dist.	783 Dec 13 j 13:10	22°♎♎09'32	1.43827 AU	max. Earth dist.	784 Nov 25 j 04:25	6°♎♎09'38	1.44807 AU
	783 Dec 18 j 09:42	0°♎					
				superior conj	784 Nov 27 j 12:40	9°♎♎51'46	-1°19'02
superior conj	783 Dec 19 j 00:38	1°♎♎01'00	-1°50'14	minimum elong	784 Nov 27 j 04:12	9°♎♎18'15	1°18'08
minimum elong	783 Dec 18 j 18:23	0°♎♎35'25	1°49'49		784 Dec 10 j 01:31	0°♎	
evening rise	784 Jan 01 j 00:28	22°♎♎54'16		evening rise	784 Dec 12 j 09:28	3°♎♎48'56	
	784 Jan 05 j 03:12	0°♎			784 Dec 29 j 00:48	0°♎	
asc. node	784 Jan 16 j 13:22	17°♎♎56'12		evening max el	785 Jan 01 j 09:36	3°♎♎59'00	18°33'58
evening max el	784 Jan 18 j 21:32	20°♎♎35'41	18°11'57	asc. node	785 Jan 02 j 10:24	4°♎♎58'31	
retrograde	784 Jan 25 j 09:03	24°♎♎02'16		retrograde	785 Jan 07 j 23:57	7°♎♎38'00	
evening set	784 Jan 28 j 05:47	23°♎♎20'08		evening set	785 Jan 11 j 02:00	6°♎♎44'45	
inferior conj	784 Feb 03 j 10:07	18°♎♎04'05	3°47'33	inferior conj	785 Jan 16 j 21:58	1°♎♎10'18	3°37'06
minimum elong	784 Feb 03 j 09:46	18°♎♎05'00	3°47'33	minimum elong	785 Jan 16 j 20:10	1°♎♎15'41	3°36'52
min. Earth dist.	784 Feb 06 j 01:48	15°♎♎13'37	0.62962 AU		785 Jan 17 j 21:35	30°♎♎♎	
morning rise	784 Feb 09 j 12:48	12°♎♎03'19		min. Earth dist.	785 Jan 18 j 22:15	28°♎♎47'25	0.64680 AU
direct	784 Feb 16 j 12:21	9°♎♎22'04		morning rise	785 Jan 22 j 13:51	25°♎♎03'02	
desc. node	784 Feb 24 j 15:59	12°♎♎22'44		direct	785 Jan 29 j 09:20	22°♎♎11'05	
morning max el	784 Mar 01 j 10:20	17°♎♎16'17	27°45'56	desc. node	785 Feb 10 j 13:00	28°♎♎44'36	
	784 Mar 12 j 01:01	0°♎♎			785 Feb 11 j 19:59	0°♎	
	784 Mar 30 j 11:20	0°♎♎		morning max el	785 Feb 11 j 19:30	29°♎♎58'48	27°15'56
morning set	784 Apr 04 j 13:50	9°♎♎55'24			785 Mar 05 j 23:43	0°♎♎	
max. Earth dist.	784 Apr 10 j 00:04	21°♎♎10'53	1.32850 AU	morning set	785 Mar 19 j 05:30	23°♎♎41'49	
					785 Mar 22 j 09:43	0°♎♎	
superior conj	784 Apr 12 j 04:37	25°♎♎52'40	-0°14'05	max. Earth dist.	785 Mar 23 j 22:33	3°♎♎07'39	1.33765 AU
minimum elong	784 Apr 12 j 05:17	25°♎♎56'19	0°13'56				
behind sun begin	784 Apr 12 j 02:45	25°♎♎42'37		superior conj	785 Mar 27 j 08:58	10°♎♎16'54	-0°41'23
behind sun end	784 Apr 12 j 07:50	26°♎♎10'01		minimum elong	785 Mar 27 j 11:00	10°♎♎27'37	0°40'57
asc. node	784 Apr 13 j 12:39	28°♎♎45'57		asc. node	785 Mar 31 j 09:42	18°♎♎50'52	
	784 Apr 14 j 02:19	0°♎♎		evening rise	785 Apr 03 j 16:10	25°♎♎46'01	
evening rise	784 Apr 19 j 05:14	11°♎♎01'20			785 Apr 05 j 17:13	0°♎♎	
	784 Apr 28 j 23:23	0°♎♎		evening max el	785 Apr 24 j 13:46	29°♎♎28'42	22°01'18
evening max el	784 May 12 j 20:23	18°♎♎52'45	23°36'05		785 Apr 25 j 02:58	0°♎♎	
desc. node	784 May 22 j 15:13	25°♎♎09'00		retrograde	785 May 07 j 06:13	5°♎♎42'21	
retrograde	784 May 26 j 12:30	25°♎♎43'23		evening set	785 May 09 j 23:14	5°♎♎26'04	
evening set	784 May 30 j 11:26	25°♎♎08'57		desc. node	785 May 09 j 12:13	5°♎♎31'03	
min. Earth dist.	784 Jun 06 j 06:56	21°♎♎58'50	0.56007 AU	inferior conj	785 May 19 j 08:56	1°♎♎20'41	-2°43'47
inferior conj	784 Jun 08 j 10:21	20°♎♎41'42	-4°08'37	minimum elong	785 May 19 j 01:58	1°♎♎30'28	2°41'36
minimum elong	784 Jun 08 j 03:46	20°♎♎51'37	4°07'20	min. Earth dist.	785 May 18 j 19:14	1°♎♎39'56	0.55082 AU

	785 May 21 j 19:31	30°♄		minimum elong	786 Apr 29 j 00:55	11°♄47'15	0°46'49
morning rise	785 May 28 j 06:07	27°♄26'17		min. Earth dist.	786 Apr 30 j 08:04	11°♄02'27	0.55078 AU
direct	785 May 31 j 05:36	27°♄06'29		morning rise	786 May 08 j 02:43	7°♄33'07	
	785 Jun 08 j 19:01	0°♄		direct	786 May 11 j 16:15	7°♄05'43	
morning max el	785 Jun 12 j 03:31	2°♄41'32	21°31'33	morning max el	786 May 24 j 23:03	13°♄31'35	23°09'43
asc. node	785 Jun 27 j 08:56	24°♄43'56			786 Jun 06 j 12:36	0°♄	
	785 Jun 30 j 01:32	0°♄		asc. node	786 Jun 14 j 05:59	14°♄18'11	
morning set	785 Jul 02 j 13:01	5°♄03'45		morning set	786 Jun 17 j 00:09	19°♄59'03	
					786 Jun 21 j 16:49	0°♄	
superior conj	785 Jul 09 j 21:10	20°♄27'21	1°39'38				
minimum elong	785 Jul 09 j 19:23	20°♄18'03	1°39'31	superior conj	786 Jun 24 j 02:32	5°♄09'46	1°27'33
max. Earth dist.	785 Jul 13 j 18:32	28°♄25'49	1.35061 AU	minimum elong	786 Jun 24 j 00:09	4°♄57'05	1°27'16
	785 Jul 14 j 13:19	0°♄		max. Earth dist.	786 Jun 26 j 16:13	10°♄36'59	1.33781 AU
evening rise	785 Jul 18 j 04:26	7°♄05'24		evening rise	786 Jul 01 j 18:03	21°♄00'18	
	785 Jul 31 j 06:41	0°♄			786 Jul 06 j 10:23	0°♄	
desc. node	785 Aug 05 j 11:32	7°♄58'44		desc. node	786 Jul 23 j 08:33	27°♄30'24	
evening max el	785 Aug 22 j 11:28	29°♄09'58	26°45'47		786 Jul 25 j 04:17	0°♄	
	785 Aug 23 j 08:42	0°♄		evening max el	786 Aug 04 j 23:14	12°♄32'25	27°19'10
retrograde	785 Sep 04 j 12:13	6°♄25'05		retrograde	786 Aug 18 j 10:32	19°♄51'05	
evening set	785 Sep 11 j 04:29	3°♄41'49		evening set	786 Aug 25 j 12:29	17°♄07'12	
	785 Sep 14 j 20:40	30°♄		min. Earth dist.	786 Aug 29 j 06:08	13°♄38'52	0.64477 AU
min. Earth dist.	785 Sep 15 j 04:30	29°♄37'26	0.65809 AU	inferior conj	786 Aug 31 j 13:38	11°♄09'21	-3°02'18
inferior conj	785 Sep 16 j 23:04	27°♄31'47	-2°07'04	minimum elong	786 Aug 31 j 18:10	10°♄57'09	3°00'49
minimum elong	785 Sep 17 j 02:22	27°♄22'04	2°05'48	morning rise	786 Sep 07 j 00:43	5°♄42'11	
morning rise	785 Sep 23 j 00:46	21°♄49'24		direct	786 Sep 09 j 16:02	5°♄06'15	
asc. node	785 Sep 23 j 08:09	21°♄40'06		asc. node	786 Sep 10 j 05:11	5°♄07'50	
direct	785 Sep 25 j 22:05	21°♄02'58		morning max el	786 Sep 16 j 04:09	8°♄33'30	18°00'06
morning max el	785 Oct 02 j 12:45	24°♄40'13	18°25'26		786 Sep 30 j 14:43	0°♄	
	785 Oct 06 j 22:45	0°♄		morning set	786 Oct 03 j 15:17	5°♄06'59	
morning set	785 Oct 22 j 03:34	23°♄42'30					
	785 Oct 26 j 01:17	0°♄		superior conj	786 Oct 17 j 00:44	27°♄17'14	0°15'17
desc. node	785 Nov 01 j 10:49	10°♄12'29		minimum elong	786 Oct 17 j 02:31	27°♄24'25	0°15'03
				behind sun begin	786 Oct 16 j 22:37	27°♄08'42	
superior conj	785 Nov 06 j 13:20	18°♄16'20	-0°33'21	behind sun end	786 Oct 17 j 06:24	27°♄40'07	
minimum elong	785 Nov 06 j 08:59	17°♄59'10	0°32'46		786 Oct 18 j 17:15	0°♄	
max. Earth dist.	785 Nov 07 j 23:13	20°♄29'33	1.45074 AU	desc. node	786 Oct 19 j 07:50	0°♄58'23	
	785 Nov 14 j 00:35	0°♄		max. Earth dist.	786 Oct 21 j 18:00	4°♄49'49	1.44602 AU
evening rise	785 Nov 22 j 18:46	13°♄45'25		evening rise	786 Nov 02 j 08:39	22°♄57'17	
greatest brilliancy	785 Dec 02 j 22:50	29°♄43'07	-0.8m		786 Nov 06 j 22:45	0°♄	
	785 Dec 03 j 03:12	0°♄		greatest brilliancy	786 Nov 16 j 12:35	14°♄26'33	-0.6m
evening max el	785 Dec 15 j 18:53	17°♄26'05	19°13'22		786 Nov 28 j 03:02	0°♄	
asc. node	785 Dec 20 j 07:26	20°♄53'12		evening max el	786 Nov 28 j 23:30	0°♄54'26	20°08'19
retrograde	785 Dec 22 j 19:37	21°♄27'40		retrograde	786 Dec 06 j 17:18	5°♄27'04	
evening set	785 Dec 26 j 04:10	20°♄21'59		asc. node	786 Dec 07 j 04:28	5°♄25'51	
inferior conj	785 Dec 31 j 18:23	14°♄31'18	3°13'11	evening set	786 Dec 10 j 10:00	4°♄07'26	
minimum elong	785 Dec 31 j 15:48	14°♄39'32	3°12'37		786 Dec 14 j 09:16	30°♄	
min. Earth dist.	786 Jan 02 j 03:35	12°♄45'18	0.66014 AU	inferior conj	786 Dec 15 j 20:35	28°♄03'23	2°39'14
morning rise	786 Jan 06 j 03:12	8°♄20'12		minimum elong	786 Dec 15 j 17:52	28°♄12'30	2°38'26
direct	786 Jan 12 j 12:25	5°♄31'41		min. Earth dist.	786 Dec 16 j 16:16	26°♄57'17	0.66950 AU
morning max el	786 Jan 25 j 05:02	13°♄01'15	26°17'28	morning rise	786 Dec 21 j 01:33	21°♄50'17	
desc. node	786 Jan 28 j 10:02	16°♄27'36		direct	786 Dec 26 j 20:59	19°♄15'38	
	786 Feb 07 j 22:45	0°♄		morning max el	787 Jan 07 j 13:47	26°♄13'50	24°59'32
	786 Feb 26 j 15:57	0°♄			787 Jan 11 j 01:25	0°♄	
morning set	786 Mar 02 j 08:38	6°♄46'04		desc. node	787 Jan 15 j 07:05	5°♄08'18	
max. Earth dist.	786 Mar 06 j 09:46	14°♄30'53	1.35134 AU		787 Feb 01 j 12:48	0°♄	
				morning set	787 Feb 12 j 18:10	18°♄53'58	
superior conj	786 Mar 11 j 06:36	24°♄15'53	-1°08'08	max. Earth dist.	787 Feb 16 j 10:15	25°♄34'09	1.36922 AU
minimum elong	786 Mar 11 j 09:52	24°♄32'35	1°07'34		787 Feb 18 j 18:59	0°♄	
	786 Mar 14 j 01:24	0°♄					
asc. node	786 Mar 18 j 06:45	8°♄46'16		superior conj	787 Feb 22 j 18:34	7°♄41'19	-1°32'29
evening rise	786 Mar 19 j 00:13	10°♄16'21		minimum elong	787 Feb 22 j 22:34	8°♄00'59	1°31'59
	786 Mar 29 j 13:00	0°♄		evening rise	787 Mar 03 j 03:13	24°♄25'46	
evening max el	786 Apr 06 j 16:19	10°♄30'08	20°36'52	asc. node	787 Mar 05 j 03:47	28°♄27'34	
retrograde	786 Apr 17 j 19:08	15°♄52'44			787 Mar 05 j 22:37	0°♄	
evening set	786 Apr 19 j 22:16	15°♄41'41		evening max el	787 Mar 20 j 06:21	22°♄09'52	19°29'49
desc. node	786 Apr 26 j 09:14	13°♄16'17		retrograde	787 Mar 29 j 16:17	26°♄41'51	
inferior conj	786 Apr 29 j 03:11	11°♄44'01	-0°47'38	evening set	787 Mar 31 j 18:56	26°♄29'10	

inferior conj	787 Apr 09 j 07:41	22°♄23'27	1°06'29	inferior conj	788 Mar 20 j 07:37	3°♄39'05	2°32'29
minimum elong	787 Apr 09 j 10:22	22°♄19'07	1°05'34	minimum elong	788 Mar 20 j 11:50	3°♄31'09	2°31'23
min. Earth dist.	787 Apr 11 j 22:35	20°♄42'29	0.56007 AU	min. Earth dist.	788 Mar 23 j 15:57	1°♄09'29	0.57666 AU
desc. node	787 Apr 13 j 06:17	19°♄54'19			788 Mar 25 j 08:52	30°♄	
morning rise	787 Apr 17 j 23:06	17°♄40'48		morning rise	788 Mar 28 j 06:30	28°♄23'42	
direct	787 Apr 22 j 11:44	16°♄54'29		desc. node	788 Mar 30 j 03:20	27°♄40'36	
morning max el	787 May 06 j 13:58	24°♄01'33	24°50'34	direct	788 Apr 02 j 21:33	27°♄05'18	
	787 May 12 j 00:21	0°♄			788 Apr 11 j 13:07	0°♄	
	787 May 30 j 02:50	0°♄		morning max el	788 Apr 17 j 06:07	4°♄38'33	26°19'00
asc. node	787 Jun 01 j 03:02	4°♄09'18			788 May 05 j 16:32	0°♄	
morning set	787 Jun 01 j 12:05	4°♄56'57		morning set	788 May 15 j 23:13	19°♄52'03	
				asc. node	788 May 18 j 00:06	24°♄11'58	
					788 May 20 j 16:12	0°♄	
superior conj	787 Jun 08 j 11:55	20°♄03'43	1°10'51	superior conj	788 May 22 j 23:22	5°♄02'37	0°50'26
minimum elong	787 Jun 08 j 09:30	19°♄50'34	1°10'27	minimum elong	788 May 22 j 21:22	4°♄51'41	0°50'02
max. Earth dist.	787 Jun 09 j 22:00	23°♄08'45	1.32896 AU	max. Earth dist.	788 May 23 j 09:00	5°♄55'31	1.32400 AU
	787 Jun 13 j 02:55	0°♄		evening rise	788 May 29 j 22:40	20°♄04'33	
evening rise	787 Jun 15 j 17:06	5°♄23'03			788 Jun 03 j 20:57	0°♄	
	787 Jun 29 j 01:18	0°♄			788 Jun 22 j 13:29	0°♄	
desc. node	787 Jul 10 j 05:35	16°♄20'52		desc. node	788 Jun 26 j 02:37	4°♄12'41	
evening max el	787 Jul 18 j 08:37	25°♄28'16	27°23'36	evening max el	788 Jun 29 j 13:17	7°♄46'02	26°55'17
	787 Jul 23 j 23:58	0°♄		retrograde	788 Jul 13 j 11:59	15°♄01'28	
retrograde	787 Aug 01 j 02:48	2°♄46'22		evening set	788 Jul 20 j 10:18	12°♄54'30	
evening set	787 Aug 08 j 07:52	0°♄13'54		min. Earth dist.	788 Jul 24 j 03:20	10°♄14'34	0.60836 AU
	787 Aug 08 j 15:42	30°♄		inferior conj	788 Jul 27 j 08:59	7°♄29'51	-4°31'13
min. Earth dist.	787 Aug 11 j 21:49	27°♄15'54	0.62793 AU	minimum elong	788 Jul 27 j 12:59	7°♄21'20	4°30'38
inferior conj	787 Aug 14 j 18:03	24°♄31'24	-3°52'16	morning rise	788 Aug 03 j 17:28	2°♄42'19	
minimum elong	787 Aug 14 j 23:03	24°♄19'17	3°51'01	direct	788 Aug 06 j 04:13	2°♄18'40	
morning rise	787 Aug 21 j 15:33	19°♄22'45		morning max el	788 Aug 13 j 09:05	5°♄51'49	18°03'52
direct	787 Aug 24 j 03:20	18°♄54'13		asc. node	788 Aug 13 j 23:17	6°♄27'27	
asc. node	787 Aug 28 j 02:14	20°♄07'42			788 Aug 28 j 17:42	0°♄	
morning max el	787 Aug 30 j 19:58	22°♄19'59	17°52'34	morning set	788 Aug 29 j 06:01	0°♄57'12	
	787 Sep 05 j 18:22	0°♄					
morning set	787 Sep 16 j 02:07	17°♄37'36		superior conj	788 Sep 08 j 04:41	19°♄08'54	1°24'23
	787 Sep 23 j 03:02	0°♄		minimum elong	788 Sep 08 j 08:56	19°♄27'47	1°23'58
superior conj	787 Sep 27 j 13:18	7°♄33'38	0°56'01		788 Sep 14 j 11:00	0°♄	
minimum elong	787 Sep 27 j 18:00	7°♄53'23	0°55'25	max. Earth dist.	788 Sep 15 j 19:16	2°♄15'34	1.41789 AU
max. Earth dist.	787 Oct 04 j 09:21	18°♄50'20	1.43456 AU	evening rise	788 Sep 21 j 11:18	11°♄32'00	
desc. node	787 Oct 06 j 04:52	21°♄45'28		desc. node	788 Sep 22 j 01:55	12°♄30'28	
	787 Oct 11 j 10:02	0°♄			788 Oct 03 j 11:15	0°♄	
evening rise	787 Oct 12 j 16:16	1°♄57'41		evening max el	788 Oct 24 j 16:01	27°♄53'40	22°32'52
	787 Oct 31 j 12:38	0°♄			788 Oct 26 j 21:39	0°♄	
evening max el	787 Nov 11 j 22:27	14°♄23'14	21°16'09	retrograde	788 Nov 03 j 10:15	3°♄41'42	
retrograde	787 Nov 20 j 14:46	19°♄32'44		evening set	788 Nov 08 j 01:03	1°♄49'31	
asc. node	787 Nov 24 j 01:30	18°♄26'14		asc. node	788 Nov 09 j 22:33	29°♄58'00	
evening set	787 Nov 24 j 17:33	17°♄57'32			788 Nov 09 j 21:50	30°♄	
inferior conj	787 Nov 30 j 02:16	11°♄43'31	1°57'36	inferior conj	788 Nov 13 j 09:28	25°♄29'16	1°10'01
minimum elong	787 Nov 29 j 23:56	11°♄51'35	1°56'46	minimum elong	788 Nov 13 j 07:55	25°♄34'38	1°09'23
min. Earth dist.	787 Nov 30 j 10:01	11°♄16'47	0.67512 AU	min. Earth dist.	788 Nov 13 j 06:22	25°♄39'58	0.67733 AU
morning rise	787 Dec 05 j 06:09	5°♄30'19		morning rise	788 Nov 18 j 14:38	19°♄18'10	
direct	787 Dec 10 j 10:30	3°♄15'41		direct	788 Nov 23 j 04:06	17°♄26'00	
morning max el	787 Dec 20 j 22:36	9°♄31'09	23°32'16	morning max el	788 Dec 02 j 10:31	22°♄53'58	22°05'14
desc. node	788 Jan 02 j 04:07	24°♄30'03			788 Dec 08 j 14:10	0°♄	
	788 Jan 06 j 02:00	0°♄		desc. node	788 Dec 19 j 01:10	14°♄21'02	
morning set	788 Jan 25 j 03:54	29°♄49'07			788 Dec 29 j 11:10	0°♄	
	788 Jan 25 j 06:28	0°♄		morning set	789 Jan 04 j 08:37	9°♄19'12	
max. Earth dist.	788 Jan 29 j 05:10	6°♄48'05	1.38996 AU	max. Earth dist.	789 Jan 10 j 02:27	18°♄45'18	1.41118 AU
					789 Jan 16 j 15:39	0°♄	
superior conj	788 Feb 05 j 16:59	20°♄23'19	-1°51'47	superior conj	789 Jan 17 j 20:55	2°♄09'11	-2°02'24
minimum elong	788 Feb 05 j 20:36	20°♄40'12	1°51'32	minimum elong	789 Jan 17 j 22:10	2°♄14'47	2°02'23
	788 Feb 10 j 18:07	0°♄		evening rise	789 Jan 28 j 06:41	21°♄11'17	
evening rise	788 Feb 14 j 22:29	8°♄06'58			789 Feb 02 j 01:20	0°♄	
asc. node	788 Feb 20 j 00:50	17°♄49'15		asc. node	789 Feb 05 j 21:53	6°♄43'52	
	788 Feb 27 j 11:22	0°♄		evening max el	789 Feb 13 j 14:00	17°♄12'22	18°15'18
evening max el	788 Mar 02 j 06:36	4°♄26'59	18°42'35	retrograde	789 Feb 20 j 14:56	20°♄43'24	
retrograde	788 Mar 10 j 06:23	8°♄20'22					
evening set	788 Mar 12 j 14:07	8°♄01'53					

evening set	789 Feb 23 j 04:13	20° H 16'35		inferior conj	790 Feb 12 j 19:32	28° \approx 01'03	3°45'35
inferior conj	789 Mar 02 j 04:25	15° H 32'56	3°23'52	minimum elong	790 Feb 12 j 20:20	27° \approx 59'03	3°45'32
minimum elong	789 Mar 02 j 07:22	15° H 26'29	3°23'26	min. Earth dist.	790 Feb 15 j 19:12	25° \approx 02'16	0.61838 AU
min. Earth dist.	789 Mar 05 j 13:52	12° H 36'12	0.59726 AU	morning rise	790 Feb 19 j 06:21	22° \approx 06'19	
morning rise	789 Mar 09 j 08:17	9° H 53'31		direct	790 Feb 26 j 04:31	19° \approx 38'18	
direct	789 Mar 15 j 20:04	7° H 57'28		desc. node	790 Mar 03 j 21:24	21° \approx 07'00	
desc. node	789 Mar 17 j 00:22	8° H 01'12		morning max el	790 Mar 12 j 06:45	27° \approx 30'49	27°47'35
morning max el	789 Mar 30 j 03:18	15° H 44'07	27°20'58		790 Mar 14 j 15:54	0° H	
	789 Apr 10 j 18:18	0° Y			790 Apr 04 j 10:27	0° Y	
	789 Apr 28 j 01:39	0° B		morning set	790 Apr 14 j 11:46	19° Y 05'47	
morning set	789 Apr 30 j 07:46	4° B 37'06			790 Apr 19 j 16:15	0° B	
asc. node	789 May 04 j 21:10	14° B 20'28		max. Earth dist.	790 Apr 20 j 07:49	1° B 23'58	1.32528 AU
superior conj	789 May 07 j 11:04	19° B 59'09	0°27'01	superior conj	790 Apr 21 j 21:19	4° B 47'33	0°01'23
minimum elong	789 May 07 j 09:53	19° B 52'39	0°26'46	minimum elong	790 Apr 21 j 21:16	4° B 47'12	0°01'23
max. Earth dist.	789 May 06 j 21:31	18° B 44'48	1.32274 AU	behind sun begin	790 Apr 21 j 16:09	4° B 19'25	
	789 May 12 j 00:56	0° II		behind sun end	790 Apr 22 j 02:22	5° B 15'01	
evening rise	789 May 14 j 08:12	4° II 55'30		asc. node	790 Apr 21 j 18:13	4° B 30'37	
	789 May 27 j 15:55	0° E		evening rise	790 Apr 28 j 19:43	19° B 48'59	
evening max el	789 Jun 11 j 11:19	19° E 18'18	25°55'07		790 May 03 j 19:19	0° II	
desc. node	789 Jun 12 j 23:38	20° E 41'12			790 May 23 j 23:17	0° E	
retrograde	789 Jun 25 j 12:08	26° E 29'26		evening max el	790 May 24 j 03:08	0° E 09'18	24°30'30
evening set	789 Jul 01 j 15:11	24° E 59'11		desc. node	790 May 30 j 20:39	5° E 13'55	
min. Earth dist.	789 Jul 05 j 23:54	22° E 20'20	0.58775 AU	retrograde	790 Jun 07 j 00:58	7° E 11'00	
inferior conj	789 Jul 09 j 06:52	19° E 54'59	-4°50'09	evening set	790 Jun 11 j 20:47	6° E 18'45	
minimum elong	789 Jul 09 j 07:37	19° E 53'34	4°50'08	min. Earth dist.	790 Jun 17 j 14:19	3° E 24'12	0.56885 AU
morning rise	789 Jul 17 j 02:22	15° E 29'54		inferior conj	790 Jun 20 j 08:50	1° E 37'48	-4°36'24
direct	789 Jul 19 j 14:30	15° E 09'10		minimum elong	790 Jun 20 j 04:40	1° E 44'32	4°35'55
morning max el	789 Jul 27 j 16:24	19° E 00'04	18°35'16		790 Jun 22 j 23:46	30° R II	
asc. node	789 Jul 31 j 20:21	23° E 51'44		morning rise	790 Jun 28 j 15:16	27° II 33'14	
	789 Aug 04 j 20:23	0° Ω		direct	790 Jul 01 j 06:17	27° II 14'18	
morning set	789 Aug 12 j 22:05	14° Ω 52'37			790 Jul 08 j 17:28	0° E	
	789 Aug 20 j 18:46	0° M		morning max el	790 Jul 10 j 14:56	1° E 35'24	19°27'47
superior conj	789 Aug 21 j 18:12	1° M 49'59	1°40'35	asc. node	790 Jul 18 j 17:25	12° E 06'19	
minimum elong	789 Aug 21 j 20:34	2° M 01'03	1°40'27	morning set	790 Jul 27 j 22:39	29° E 13'46	
max. Earth dist.	789 Aug 29 j 00:27	14° M 59'00	1.39819 AU		790 Jul 28 j 07:53	0° Ω	
evening rise	789 Sep 02 j 04:56	22° M 09'51		superior conj	790 Aug 05 j 00:15	15° Ω 21'07	1°46'28
	789 Sep 06 j 23:20	0° L		minimum elong	790 Aug 05 j 00:37	15° Ω 22'55	1°46'29
desc. node	789 Sep 08 j 22:57	3° L 09'42		max. Earth dist.	790 Aug 11 j 04:10	27° Ω 06'06	1.37798 AU
	789 Sep 27 j 11:13	0° M			790 Aug 12 j 18:09	0° M	
evening max el	789 Oct 07 j 05:45	11° M 27'41	23°53'00	evening rise	790 Aug 14 j 22:48	3° M 56'05	
retrograde	789 Oct 18 j 02:24	17° M 51'09		desc. node	790 Aug 26 j 19:58	23° M 38'29	
evening set	789 Oct 23 j 06:55	15° M 41'22			790 Aug 31 j 00:41	0° L	
asc. node	789 Oct 27 j 19:35	10° M 29'21		evening max el	790 Sep 19 j 17:36	25° L 04'40	25°09'47
min. Earth dist.	789 Oct 28 j 02:51	10° M 04'45	0.67623 AU		790 Sep 25 j 18:29	0° M	
inferior conj	789 Oct 28 j 16:23	9° M 18'47	0°17'55	retrograde	790 Oct 01 j 14:19	1° M 56'20	
minimum elong	789 Oct 28 j 15:57	9° M 20'15	0°17'44		790 Oct 06 j 18:37	30° R L	
morning rise	789 Nov 03 j 00:57	3° M 12'17		evening set	790 Oct 07 j 09:24	29° L 29'59	
direct	789 Nov 07 j 00:41	1° M 42'14		min. Earth dist.	790 Oct 11 j 21:01	24° L 28'11	0.67188 AU
morning max el	789 Nov 15 j 04:55	6° M 26'44	20°46'06	inferior conj	790 Oct 12 j 21:16	23° L 08'59	-0°37'22
	789 Dec 02 j 21:03	0° J		minimum elong	790 Oct 12 j 22:12	23° L 05'55	0°36'58
desc. node	789 Dec 05 j 22:13	4° J 33'23		asc. node	790 Oct 14 j 16:37	20° L 50'53	
morning set	789 Dec 14 j 12:00	17° J 41'11		morning rise	790 Oct 18 j 11:10	17° L 09'44	
	789 Dec 22 j 06:35	0° Z		direct	790 Oct 21 j 22:52	15° L 59'30	
max. Earth dist.	789 Dec 23 j 07:38	1° Z 41'15	1.42983 AU	morning max el	790 Oct 29 j 07:10	20° L 09'58	19°39'25
superior conj	789 Dec 30 j 01:07	12° Z 47'40	-1°59'40		790 Nov 06 j 04:17	0° M	
minimum elong	789 Dec 29 j 21:48	12° Z 33'43	1°59'32	greatest brilliancy	790 Nov 11 j 19:19	8° M 12'38	-0.7m
	790 Jan 09 j 00:07	0° \approx		desc. node	790 Nov 22 j 19:13	25° M 00'20	
evening rise	790 Jan 10 j 23:54	3° \approx 31'37		morning set	790 Nov 23 j 09:08	25° M 54'08	
asc. node	790 Jan 23 j 18:55	25° \approx 03'34			790 Nov 26 j 00:35	0° J	
	790 Jan 27 j 18:18	0° H		max. Earth dist.	790 Dec 05 j 20:17	15° J 24'20	1.44334 AU
evening max el	790 Jan 28 j 01:26	0° H 18'03	18°07'36	superior conj	790 Dec 10 j 02:30	22° J 12'40	-1°39'14
retrograde	790 Feb 03 j 14:53	3° H 42'19		minimum elong	790 Dec 09 j 18:37	21° J 40'56	1°38'34
evening set	790 Feb 06 j 09:01	3° H 05'52			790 Dec 14 j 21:40	0° Z	
	790 Feb 10 j 18:29	30° R \approx		evening rise	790 Dec 23 j 21:46	14° Z 59'20	

	791 Jan 01 j 20:41	0°♊			791 Dec 29 j 19:13	0°♊	
asc. node	791 Jan 10 j 15:56	12°♊37'30		retrograde	792 Jan 01 j 19:04	0°♊48'48	
evening max el	791 Jan 11 j 13:57	13°♊36'04	18°19'02	evening set	792 Jan 04 j 23:37	29°♊50'33	
retrograde	791 Jan 18 j 01:38	17°♊06'41			792 Jan 04 j 17:05	30°♊♊	
evening set	791 Jan 21 j 00:33	16°♊19'52		inferior conj	792 Jan 10 j 16:50	24°♊08'43	3°28'20
inferior conj	791 Jan 27 j 00:56	10°♊55'25	3°45'02	minimum elong	792 Jan 10 j 14:37	24°♊15'32	3°27'59
minimum elong	791 Jan 26 j 23:53	10°♊58'22	3°44'57	min. Earth dist.	792 Jan 12 j 10:33	22°♊00'43	0.65294 AU
min. Earth dist.	791 Jan 29 j 10:01	8°♊15'21	0.63738 AU	morning rise	792 Jan 16 j 05:15	17°♊59'15	
morning rise	791 Feb 01 j 22:32	4°♊51'23		direct	792 Jan 22 j 20:47	15°♊07'14	
direct	791 Feb 08 j 21:08	2°♊04'07		morning max el	792 Feb 05 j 00:38	22°♊49'37	26°54'02
desc. node	791 Feb 18 j 18:26	6°♊27'33		desc. node	792 Feb 05 j 15:27	23°♊27'18	
morning max el	791 Feb 22 j 14:50	9°♊56'26	27°37'14		792 Feb 11 j 09:26	0°♊	
	791 Mar 10 j 08:15	0°♋			792 Mar 02 j 14:43	0°♋	
	791 Mar 27 j 18:05	0°♋		morning set	792 Mar 11 j 19:41	16°♋40'37	
morning set	791 Mar 29 j 08:49	3°♋10'25		max. Earth dist.	792 Mar 16 j 05:48	25°♋22'11	1.34286 AU
max. Earth dist.	791 Apr 03 j 11:52	13°♋39'53	1.33185 AU		792 Mar 18 j 12:23	0°♋	
superior conj	791 Apr 06 j 04:24	19°♋22'16	-0°25'38	superior conj	792 Mar 20 j 06:11	3°♋36'23	-0°52'54
minimum elong	791 Apr 06 j 05:39	19°♋28'56	0°25'22	minimum elong	792 Mar 20 j 08:46	3°♋49'53	0°52'24
asc. node	791 Apr 08 j 15:16	24°♋38'36		asc. node	792 Mar 25 j 12:17	14°♋39'50	
	791 Apr 11 j 03:01	0°♌		evening rise	792 Mar 27 j 17:20	19°♋17'50	
evening rise	791 Apr 13 j 07:24	4°♌38'40			792 Apr 02 j 01:16	0°♌	
	791 Apr 27 j 02:01	0°♌		evening max el	792 Apr 16 j 14:13	21°♌24'54	21°23'37
evening max el	791 May 05 j 17:37	10°♌41'08	22°55'09	retrograde	792 Apr 28 j 16:22	27°♌18'31	
desc. node	791 May 17 j 17:40	17°♌14'58		evening set	792 May 01 j 01:03	27°♌05'45	
retrograde	791 May 19 j 01:34	17°♌18'58		desc. node	792 May 03 j 14:42	26°♌25'03	
evening set	791 May 22 j 10:28	16°♌54'01		inferior conj	792 May 10 j 10:34	23°♌05'33	-1°56'33
min. Earth dist.	791 May 30 j 02:31	13°♌30'22	0.55505 AU	minimum elong	792 May 10 j 05:11	23°♌13'06	1°54'43
inferior conj	791 May 31 j 15:36	12°♌36'53	-3°38'03	min. Earth dist.	792 May 10 j 15:10	22°♌59'05	0.54951 AU
minimum elong	791 May 31 j 08:07	12°♌47'41	3°36'10	morning rise	792 May 19 j 09:49	19°♌06'21	
morning rise	791 Jun 09 j 08:16	8°♌43'49		direct	792 May 22 j 13:46	18°♌44'33	
direct	791 Jun 12 j 03:20	8°♌25'27		morning max el	792 Jun 04 j 03:33	24°♌42'18	22°12'14
morning max el	791 Jun 23 j 02:43	13°♌30'29	20°41'10		792 Jun 08 j 23:39	0°♌	
	791 Jul 05 j 01:18	0°♍		asc. node	792 Jun 21 j 11:32	20°♌20'32	
asc. node	791 Jul 05 j 14:29	0°♍59'21		morning set	792 Jun 25 j 14:52	28°♌44'07	
morning set	791 Jul 12 j 04:59	13°♍53'22			792 Jun 26 j 05:23	0°♍	
superior conj	791 Jul 19 j 18:08	29°♍28'57	1°44'06	superior conj	792 Jul 02 j 20:08	14°♍01'10	1°35'10
minimum elong	791 Jul 19 j 16:58	29°♍22'58	1°44'03	minimum elong	792 Jul 02 j 18:02	13°♍50'04	1°34'58
	791 Jul 20 j 00:14	0°♎		max. Earth dist.	792 Jul 06 j 03:25	20°♍53'57	1.34460 AU
max. Earth dist.	791 Jul 24 j 11:38	8°♎56'27	1.35961 AU	evening rise	792 Jul 10 j 19:55	0°♎16'25	
evening rise	791 Jul 28 j 13:26	16°♎42'53			792 Jul 10 j 16:32	0°♎	
	791 Aug 05 j 00:59	0°♏		desc. node	792 Jul 28 j 02:06	0°♏	
desc. node	791 Aug 13 j 16:59	13°♏51'36		evening max el	792 Jul 30 j 14:02	3°♏41'02	
	791 Aug 25 j 09:52	0°♏		retrograde	792 Aug 14 j 17:17	22°♏13'09	27°03'08
evening max el	791 Sep 02 j 05:17	8°♏42'16	26°15'40	evening set	792 Aug 27 j 23:27	29°♏31'28	
retrograde	791 Sep 14 j 21:30	15°♏52'23		min. Earth dist.	792 Sep 03 j 20:18	26°♏46'33	
evening set	791 Sep 21 j 06:38	13°♏13'10		inferior conj	792 Sep 07 j 17:20	22°♏57'48	0.65284 AU
min. Earth dist.	791 Sep 25 j 10:37	8°♏47'45	0.66417 AU	minimum elong	792 Sep 09 j 17:24	20°♏40'56	-2°30'54
inferior conj	791 Sep 26 j 22:18	6°♏57'49	-1°34'17	morning rise	792 Sep 09 j 21:16	20°♏29'55	2°29'29
minimum elong	791 Sep 27 j 00:45	6°♏50'17	1°33'17	asc. node	792 Sep 15 j 22:57	15°♏04'41	
asc. node	791 Oct 01 j 13:39	1°♏59'35		direct	792 Sep 17 j 10:42	14°♏32'09	
morning rise	791 Oct 02 j 19:16	1°♏08'33		morning max el	792 Sep 18 j 17:17	14°♏23'18	
direct	791 Oct 05 j 21:05	0°♏14'39			792 Sep 25 j 06:14	17°♏55'36	18°12'30
morning max el	791 Oct 12 j 16:20	4°♏01'24	18°47'43	morning set	792 Oct 04 j 04:11	0°♏	
	791 Oct 30 j 18:46	0°♐			792 Oct 13 j 19:57	15°♏44'08	
morning set	791 Nov 03 j 00:10	5°♐06'04		desc. node	792 Oct 22 j 13:58	0°♐	
desc. node	791 Nov 09 j 16:14	15°♐37'36			792 Oct 26 j 13:17	6°♐21'31	
max. Earth dist.	791 Nov 18 j 13:21	29°♐34'52	1.45015 AU				
	791 Nov 18 j 19:44	0°♑		superior conj	792 Oct 28 j 10:00	9°♐19'05	-0°12'21
				minimum elong	792 Oct 28 j 08:25	9°♐12'48	0°12'07
superior conj	791 Nov 19 j 07:12	0°♑45'06	-1°00'50	behind sun begin	792 Oct 28 j 01:02	8°♐43'31	
minimum elong	791 Nov 18 j 23:47	0°♑15'56	0°59'56	behind sun end	792 Oct 28 j 15:48	9°♐42'04	
evening rise	791 Dec 04 j 20:40	25°♑28'56		max. Earth dist.	792 Oct 31 j 08:01	13°♐55'38	1.44960 AU
	791 Dec 07 j 15:57	0°♒			792 Nov 10 j 14:37	0°♑	
evening max el	791 Dec 26 j 00:59	27°♒00'52	18°48'39	evening rise	792 Nov 13 j 20:42	5°♑03'54	
asc. node	791 Dec 28 j 12:58	29°♒12'43		greatest brilliancy	792 Nov 26 j 02:44	23°♑58'32	-0.7m

	792 Nov 30 j 04:14	0°♁		superior conj	793 Oct 08 j 07:08	18°♁49'25	0°33'56
evening max el	792 Dec 08 j 08:29	10°♁29'18	19°35'00	minimum elong	793 Oct 08 j 10:39	19°♁03'50	0°33'27
asc. node	792 Dec 14 j 09:59	14°♁34'42		desc. node	793 Oct 13 j 10:20	27°♁08'26	
retrograde	792 Dec 15 j 15:53	14°♁43'21		max. Earth dist.	793 Oct 14 j 01:34	28°♁09'19	1.44191 AU
evening set	792 Dec 19 j 03:36	13°♁32'10			793 Oct 15 j 05:22	0°♁	
inferior conj	792 Dec 24 j 16:03	7°♁35'36	2°59'50	evening rise	793 Oct 24 j 05:50	14°♁05'50	
minimum elong	792 Dec 24 j 13:21	7°♁44'27	2°59'10		793 Nov 03 j 17:16	0°♁	
min. Earth dist.	792 Dec 25 j 19:24	6°♁06'06	0.66460 AU	evening max el	793 Nov 21 j 10:53	23°♁58'39	20°35'51
morning rise	792 Dec 29 j 22:51	1°♁23'15		retrograde	793 Nov 29 j 13:36	28°♁46'02	
	792 Dec 31 j 18:06	30°♁		asc. node	793 Dec 01 j 07:02	28°♁29'12	
direct	793 Jan 05 j 02:32	28°♁39'17		evening set	793 Dec 03 j 10:23	27°♁20'02	
	793 Jan 09 j 21:40	0°♁		inferior conj	793 Dec 08 j 20:00	21°♁11'35	2°22'23
morning max el	793 Jan 17 j 09:50	5°♁57'47	25°46'00	minimum elong	793 Dec 08 j 17:23	21°♁20'29	2°21'33
desc. node	793 Jan 22 j 12:29	11°♁37'43		min. Earth dist.	793 Dec 09 j 10:29	20°♁22'17	0.67240 AU
	793 Feb 05 j 00:14	0°♁		morning rise	793 Dec 14 j 00:12	14°♁58'22	
morning set	793 Feb 22 j 16:04	29°♁23'31		direct	793 Dec 19 j 13:25	12°♁31'27	
	793 Feb 23 j 00:00	0°♁		morning max el	793 Dec 30 j 18:07	19°♁12'02	24°22'52
max. Earth dist.	793 Feb 26 j 11:47	6°♁33'03	1.35844 AU		794 Jan 08 j 22:03	0°♁	
				desc. node	794 Jan 09 j 09:32	0°♁37'44	
superior conj	793 Mar 04 j 00:09	17°♁22'46	-1°18'54		794 Jan 29 j 03:33	0°♁	
minimum elong	793 Mar 04 j 03:49	17°♁41'14	1°18'20	morning set	794 Feb 04 j 16:12	11°♁02'14	
	793 Mar 10 j 04:29	0°♁		max. Earth dist.	794 Feb 08 j 08:46	17°♁35'33	1.37789 AU
evening rise	793 Mar 11 j 23:33	3°♁40'18					
asc. node	793 Mar 12 j 09:20	4°♁30'07		superior conj	794 Feb 15 j 06:53	0°♁31'22	-1°41'30
	793 Mar 27 j 09:15	0°♁		minimum elong	794 Feb 15 j 10:54	0°♁50'42	1°41'04
evening max el	793 Mar 29 j 21:48	2°♁42'54	20°06'05		794 Feb 15 j 00:22	0°♁	
retrograde	793 Apr 09 j 06:55	7°♁42'37		evening rise	794 Feb 23 j 23:35	17°♁38'31	
evening set	793 Apr 11 j 08:36	7°♁31'35		asc. node	794 Feb 27 j 06:23	24°♁03'45	
inferior conj	793 Apr 20 j 07:36	3°♁32'35	0°02'57		794 Mar 02 j 10:42	0°♁	
minimum elong	793 Apr 20 j 07:44	3°♁32'23	0°02'54	evening max el	794 Mar 12 j 16:30	14°♁39'17	19°07'13
transit middle	793 Apr 20 j 07:44	3°♁32'23	0°02'54	retrograde	794 Mar 21 j 10:19	18°♁52'29	
transit begin	793 Apr 20 j 03:48	3°♁38'17		evening set	794 Mar 23 j 15:06	18°♁37'36	
transit end	793 Apr 20 j 11:40	3°♁26'28		inferior conj	794 Mar 31 j 19:38	14°♁25'19	1°47'11
desc. node	793 Apr 20 j 11:43	3°♁26'25		minimum elong	794 Mar 31 j 23:25	14°♁18'48	1°46'02
min. Earth dist.	793 Apr 22 j 04:55	2°♁24'50	0.55367 AU	min. Earth dist.	794 Apr 03 j 20:11	12°♁21'47	0.56651 AU
	793 Apr 26 j 19:39	30°♁		desc. node	794 Apr 07 j 08:44	10°♁17'19	
morning rise	793 Apr 29 j 04:56	29°♁08'58		morning rise	794 Apr 09 j 04:46	9°♁28'30	
direct	793 May 03 j 03:32	28°♁34'56		direct	794 Apr 14 j 05:07	8°♁29'47	
	793 May 09 j 07:20	0°♁		morning max el	794 Apr 28 j 10:50	15°♁49'03	25°30'39
morning max el	793 May 16 j 20:21	5°♁20'42	23°53'03		794 May 09 j 21:13	0°♁	
	793 Jun 03 j 05:44	0°♁		morning set	794 May 25 j 14:18	28°♁37'55	
asc. node	793 Jun 08 j 08:36	10°♁02'34		asc. node	794 May 26 j 05:41	29°♁59'14	
morning set	793 Jun 10 j 02:31	13°♁40'43			794 May 26 j 05:49	0°♁	
superior conj	793 Jun 17 j 03:28	28°♁49'06	1°20'59	superior conj	794 Jun 01 j 13:56	13°♁45'37	1°02'35
minimum elong	793 Jun 17 j 01:01	28°♁35'51	1°20'38	minimum elong	794 Jun 01 j 11:39	13°♁33'06	1°02'11
	793 Jun 17 j 16:38	0°♁		max. Earth dist.	794 Jun 02 j 13:17	15°♁53'10	1.32641 AU
max. Earth dist.	793 Jun 19 j 04:43	3°♁13'15	1.33357 AU	evening rise	794 Jun 08 j 16:08	28°♁56'16	
evening rise	793 Jun 24 j 13:59	14°♁24'24			794 Jun 09 j 04:32	0°♁	
	793 Jul 02 j 19:23	0°♁			794 Jun 25 j 23:46	0°♁	
desc. node	793 Jul 17 j 11:04	22°♁56'41		desc. node	794 Jul 04 j 08:05	11°♁24'41	
	793 Jul 23 j 01:32	0°♁		evening max el	794 Jul 10 j 12:24	18°♁08'03	27°15'45
evening max el	793 Jul 28 j 04:28	5°♁26'12	27°25'00	retrograde	794 Jul 24 j 08:30	25°♁24'15	
retrograde	793 Aug 10 j 19:21	12°♁44'59		evening set	794 Jul 31 j 12:08	23°♁01'16	
evening set	793 Aug 17 j 23:24	10°♁04'39		min. Earth dist.	794 Aug 04 j 02:25	20°♁12'43	0.61984 AU
min. Earth dist.	793 Aug 21 j 15:05	6°♁49'54	0.63795 AU	inferior conj	794 Aug 07 j 03:10	17°♁26'20	-4°10'36
inferior conj	793 Aug 24 j 04:01	4°♁12'48	-3°24'27	minimum elong	794 Aug 07 j 07:58	17°♁15'17	4°09'36
minimum elong	793 Aug 24 j 08:52	4°♁00'15	3°23'01	morning rise	794 Aug 14 j 05:15	12°♁26'09	
	793 Aug 28 j 19:26	30°♁		direct	794 Aug 16 j 16:26	11°♁59'49	
morning rise	793 Aug 30 j 19:24	28°♁52'49		asc. node	794 Aug 22 j 04:51	14°♁15'25	
direct	793 Sep 02 j 08:51	28°♁20'24		morning max el	794 Aug 23 j 13:05	15°♁27'28	17°55'02
asc. node	793 Sep 04 j 07:46	28°♁39'36			794 Sep 02 j 15:28	0°♁	
	793 Sep 06 j 20:45	0°♁		morning set	794 Sep 08 j 13:09	10°♁33'15	
morning max el	793 Sep 08 j 22:06	1°♁46'20	17°54'38				
morning set	793 Sep 25 j 18:19	27°♁39'13		superior conj	794 Sep 19 j 07:26	29°♁40'32	1°09'37
	793 Sep 27 j 02:58	0°♁		minimum elong	794 Sep 19 j 12:15	0°♁01'13	1°09'03
					794 Sep 19 j 11:58	0°♁	

max. Earth dist.	794 Sep 26 j 15:21	11°♌59'02	1.42801 AU	superior conj	795 Sep 01 j 08:56	11°♏45'59	1°32'39
desc. node	794 Sep 30 j 07:24	17°♌55'24		minimum elong	795 Sep 01 j 12:28	12°♏02'00	1°32'22
evening rise	794 Oct 03 j 16:25	23°♌16'25		max. Earth dist.	795 Sep 08 j 23:18	25°♏07'54	1.40969 AU
	794 Oct 08 j 00:31	0°♍			795 Sep 11 j 20:49	0°♌	
	794 Oct 28 j 22:00	0°♊		evening rise	795 Sep 13 j 20:12	3°♌15'06	
evening max el	794 Nov 04 j 07:33	7°♊28'50	21°47'55	desc. node	795 Sep 17 j 04:26	8°♌38'24	
retrograde	794 Nov 13 j 10:21	12°♊54'13			795 Oct 01 j 08:36	0°♍	
evening set	794 Nov 17 j 18:08	11°♊11'45		evening max el	795 Oct 17 j 23:06	21°♍00'03	23°06'50
asc. node	794 Nov 18 j 04:04	10°♊50'59		retrograde	795 Oct 28 j 04:38	27°♍04'06	
inferior conj	794 Nov 23 j 02:33	4°♊54'42	1°38'05	evening set	795 Nov 02 j 01:10	25°♍04'09	
minimum elong	794 Nov 23 j 00:30	5°♊01'48	1°37'18	asc. node	795 Nov 05 j 01:06	21°♍52'11	
min. Earth dist.	794 Nov 23 j 05:33	4°♊44'22	0.67654 AU	inferior conj	795 Nov 07 j 09:50	18°♍42'14	0°48'25
	794 Nov 26 j 22:46	30°♋♍		minimum elong	795 Nov 07 j 08:43	18°♍46'04	0°47'56
morning rise	794 Nov 28 j 06:44	28°♍42'24		min. Earth dist.	795 Nov 07 j 02:11	19°♍08'33	0.67725 AU
direct	794 Dec 03 j 04:42	26°♍37'18		morning rise	795 Nov 12 j 16:13	12°♍32'56	
	794 Dec 10 j 10:11	0°♊		direct	795 Nov 16 j 23:34	10°♍50'36	
morning max el	794 Dec 13 j 03:51	2°♊31'50	22°54'44	morning max el	795 Nov 25 j 18:23	15°♍59'20	21°30'21
desc. node	794 Dec 27 j 06:35	20°♊13'26			795 Dec 07 j 00:39	0°♊	
	795 Jan 03 j 00:01	0°♊		desc. node	795 Dec 14 j 03:39	10°♊14'32	
morning set	795 Jan 16 j 13:57	21°♊21'47		morning set	795 Dec 27 j 06:44	0°♊19'32	
max. Earth dist.	795 Jan 21 j 04:24	29°♊07'32	1.39923 AU		795 Dec 27 j 01:48	0°♊	
	795 Jan 21 j 16:35	0°♋		max. Earth dist.	796 Jan 03 j 04:58	11°♊30'57	1.41957 AU
superior conj	795 Jan 28 j 22:06	12°♋51'22	-1°57'37	superior conj	796 Jan 10 j 16:33	24°♊10'13	-2°03'10
minimum elong	795 Jan 29 j 01:00	13°♋04'37	1°57'28	minimum elong	796 Jan 10 j 16:06	24°♊08'16	2°03'09
	795 Feb 07 j 00:52	0°♋			796 Jan 14 j 00:23	0°♋	
evening rise	795 Feb 07 j 14:36	1°♋05'28		evening rise	796 Jan 21 j 17:00	13°♋53'03	
asc. node	795 Feb 14 j 03:24	13°♋14'58			796 Jan 30 j 19:23	0°♋	
evening max el	795 Feb 23 j 20:06	27°♋09'12	18°28'23	asc. node	796 Feb 01 j 00:26	1°♋56'31	
	795 Feb 27 j 17:59	0°♌		evening max el	796 Feb 07 j 05:34	10°♋04'47	18°09'35
retrograde	795 Mar 03 j 08:42	0°♌51'17		retrograde	796 Feb 14 j 00:32	13°♋31'33	
evening set	795 Mar 05 j 18:52	0°♌29'25		evening set	796 Feb 16 j 15:47	13°♋00'55	
	795 Mar 07 j 02:52	30°♋♋		inferior conj	796 Feb 23 j 09:43	8°♋08'09	3°36'16
inferior conj	795 Mar 13 j 04:34	25°♋57'30	2°58'24	minimum elong	796 Feb 23 j 11:46	8°♋03'23	3°36'02
minimum elong	795 Mar 13 j 08:28	25°♋49'39	2°57'34	min. Earth dist.	796 Feb 26 j 15:55	5°♋07'24	0.60632 AU
min. Earth dist.	795 Mar 16 j 14:55	23°♋13'33	0.58521 AU	morning rise	796 Mar 01 j 05:52	2°♋20'53	
morning rise	795 Mar 20 j 19:21	20°♋30'41		direct	796 Mar 07 j 23:11	0°♋10'02	
desc. node	795 Mar 25 j 05:46	19°♋03'16		desc. node	796 Mar 11 j 02:48	0°♋37'02	
direct	795 Mar 26 j 20:09	18°♋56'38		morning max el	796 Mar 22 j 05:07	8°♋00'43	27°36'53
morning max el	795 Apr 10 j 04:53	26°♋36'09	26°49'25		796 Apr 07 j 23:01	0°♌	
	795 Apr 13 j 10:20	0°♌		morning set	796 Apr 23 j 07:27	28°♌09'38	
	795 May 03 j 05:47	0°♌			796 Apr 24 j 04:42	0°♌	
morning set	795 May 10 j 00:32	13°♌29'37		asc. node	796 Apr 28 j 23:45	10°♌15'14	
asc. node	795 May 13 j 02:43	20°♌04'55		max. Earth dist.	796 Apr 29 j 13:36	11°♌30'47	1.32332 AU
superior conj	795 May 17 j 01:39	28°♌44'02	0°40'48	superior conj	796 Apr 30 j 12:58	13°♌38'37	0°16'22
minimum elong	795 May 16 j 23:58	28°♌34'43	0°40'28	minimum elong	796 Apr 30 j 12:14	13°♌34'34	0°16'13
max. Earth dist.	795 May 17 j 01:32	28°♌43'23	1.32300 AU	evening rise	796 May 07 j 10:15	28°♌35'57	
	795 May 17 j 15:28	0°♍			796 May 08 j 02:12	0°♍	
evening rise	795 May 23 j 23:38	13°♍42'33			796 May 24 j 22:15	0°♎	
	795 Jun 01 j 06:09	0°♎		evening max el	796 Jun 03 j 09:06	11°♎19'08	25°21'21
desc. node	795 Jun 21 j 05:06	28°♎44'33		desc. node	796 Jun 07 j 02:05	14°♎28'33	
	795 Jun 22 j 11:36	0°♏		retrograde	796 Jun 17 j 09:47	18°♎28'19	
evening max el	795 Jun 22 j 14:16	0°♏06'22	26°33'18	evening set	796 Jun 23 j 00:43	17°♎14'34	
retrograde	795 Jul 06 j 13:52	7°♏20'09		min. Earth dist.	796 Jun 27 j 21:02	14°♎30'53	0.57928 AU
evening set	795 Jul 13 j 05:53	5°♏27'32		inferior conj	796 Jul 01 j 00:50	12°♎19'36	-4°49'11
min. Earth dist.	795 Jul 17 j 03:31	2°♏50'43	0.59956 AU	minimum elong	796 Jun 30 j 23:35	12°♎21'46	4°49'08
inferior conj	795 Jul 20 j 11:14	0°♏11'37	-4°42'24	morning rise	796 Jul 09 j 01:04	8°♎04'09	
minimum elong	795 Jul 20 j 14:09	0°♏05'45	4°42'08	direct	796 Jul 11 j 14:08	7°♎44'27	
	795 Jul 20 j 17:02	30°♏♎		morning max el	796 Jul 20 j 04:07	11°♎46'30	18°55'03
morning rise	795 Jul 28 j 00:26	25°♎33'52		asc. node	796 Jul 25 j 22:59	18°♎52'02	
direct	795 Jul 30 j 11:39	25°♎11'34			796 Aug 01 j 11:42	0°♏	
morning max el	795 Aug 07 j 00:08	28°♎50'29	18°14'48	morning set	796 Aug 05 j 18:44	8°♏16'31	
	795 Aug 08 j 03:16	0°♏					
asc. node	795 Aug 09 j 01:55	1°♏04'32		superior conj	796 Aug 14 j 06:08	24°♏50'20	1°44'12
morning set	795 Aug 22 j 22:42	24°♏09'24		minimum elong	796 Aug 14 j 07:37	24°♏57'25	1°44'10
	795 Aug 26 j 00:48	0°♏			796 Aug 16 j 23:45	0°♏	

max. Earth dist.	796 Aug 21 j 02:41	7° \mathbb{M} 31'49	1.38945 AU		797 Jul 24 j 11:14	0° \mathcal{Q}	
evening rise	796 Aug 25 j 00:19	14° \mathbb{M} 22'15					
desc. node	796 Sep 03 j 01:26	29° \mathbb{M} 13'36		superior conj	797 Jul 28 j 17:43	8° \mathcal{Q} 38'22	1°46'21
	796 Sep 03 j 13:17	0° \mathcal{A}		minimum elong	797 Jul 28 j 17:21	8° \mathcal{Q} 36'35	1°46'21
	796 Sep 25 j 05:38	0° \mathbb{M}		max. Earth dist.	797 Aug 03 j 06:59	19° \mathcal{Q} 27'17	1.36983 AU
evening max el	796 Sep 29 j 11:34	4° \mathbb{M} 34'34	24°26'32	evening rise	797 Aug 07 j 03:37	26° \mathcal{Q} 36'01	
retrograde	796 Oct 10 j 19:13	11° \mathbb{M} 12'00			797 Aug 09 j 01:12	0° \mathbb{M}	
evening set	796 Oct 16 j 05:47	8° \mathbb{M} 54'54		desc. node	797 Aug 20 j 22:26	19° \mathbb{M} 36'26	
min. Earth dist.	796 Oct 20 j 22:03	3° \mathbb{M} 32'41	0.67472 AU		797 Aug 28 j 00:16	0° \mathcal{A}	
inferior conj	796 Oct 21 j 16:05	2° \mathbb{M} 32'12	-0°05'14	evening max el	797 Sep 11 j 23:20	18° \mathcal{A} 12'59	25°39'45
minimum elong	796 Oct 21 j 16:13	2° \mathbb{M} 31'47	0°05'11	retrograde	797 Sep 24 j 05:14	25° \mathcal{A} 13'52	
transit middle	796 Oct 21 j 16:13	2° \mathbb{M} 31'47	0°05'11	evening set	797 Sep 30 j 06:17	22° \mathcal{A} 41'44	
transit begin	796 Oct 21 j 13:37	2° \mathbb{M} 40'30		min. Earth dist.	797 Oct 04 j 14:41	17° \mathcal{A} 54'58	0.66895 AU
transit end	796 Oct 21 j 18:49	2° \mathbb{M} 23'05		inferior conj	797 Oct 05 j 19:36	16° \mathcal{A} 22'35	-1°01'26
asc. node	796 Oct 21 j 22:09	2° \mathbb{M} 11'53		minimum elong	797 Oct 05 j 21:10	16° \mathcal{A} 17'34	1°00'46
	796 Oct 23 j 14:45	30° \mathbb{R} \mathcal{A}		asc. node	797 Oct 08 j 19:13	12° \mathcal{A} 47'28	
morning rise	796 Oct 27 j 02:41	26° \mathcal{A} 28'19		morning rise	797 Oct 11 j 12:16	10° \mathcal{A} 26'56	
direct	796 Oct 30 j 20:58	25° \mathcal{A} 07'12		direct	797 Oct 14 j 19:30	9° \mathcal{A} 24'00	
morning max el	796 Nov 07 j 16:05	29° \mathcal{A} 36'29	20°15'58	morning max el	797 Oct 21 j 21:23	13° \mathcal{A} 23'23	19°15'27
	796 Nov 08 j 01:16	0° \mathbb{M}			797 Nov 03 j 06:15	0° \mathbb{M}	
	796 Nov 29 j 15:52	0° \mathcal{A}		morning set	797 Nov 14 j 06:33	16° \mathbb{M} 59'31	
desc. node	796 Nov 30 j 00:41	0° \mathcal{A} 33'35		desc. node	797 Nov 16 j 21:42	21° \mathbb{M} 05'34	
morning set	796 Dec 05 j 04:13	8° \mathcal{A} 28'01			797 Nov 22 j 14:31	0° \mathcal{A}	
max. Earth dist.	796 Dec 15 j 12:50	24° \mathcal{A} 46'13	1.43623 AU	max. Earth dist.	797 Nov 28 j 03:37	8° \mathcal{A} 43'03	1.44708 AU
	796 Dec 18 j 18:32	0° \mathcal{B}					
				superior conj	797 Dec 01 j 00:30	13° \mathcal{A} 15'46	-1°24'54
superior conj	796 Dec 21 j 09:20	4° \mathcal{B} 17'00	-1°53'20	minimum elong	797 Nov 30 j 15:58	12° \mathcal{A} 41'50	1°24'01
minimum elong	796 Dec 21 j 03:48	3° \mathcal{B} 54'14	1°53'01		797 Dec 11 j 09:54	0° \mathcal{B}	
evening rise	797 Jan 03 j 02:30	25° \mathcal{B} 51'49		evening rise	797 Dec 15 j 14:53	6° \mathcal{B} 55'05	
	797 Jan 05 j 11:35	0° \approx			797 Dec 29 j 23:14	0° \approx	
asc. node	797 Jan 17 j 21:27	19° \approx 58'35		evening max el	798 Jan 04 j 06:06	6° \approx 39'12	18°29'33
evening max el	797 Jan 20 j 17:49	23° \approx 16'57	18°10'14	asc. node	798 Jan 04 j 18:29	7° \approx 09'47	
retrograde	797 Jan 27 j 05:31	26° \approx 42'26		retrograde	798 Jan 10 j 19:27	10° \approx 15'34	
evening set	797 Jan 30 j 01:34	26° \approx 01'50		evening set	798 Jan 13 j 20:42	9° \approx 23'57	
inferior conj	797 Feb 05 j 07:25	20° \approx 48'45	3°47'38	inferior conj	798 Jan 19 j 17:43	3° \approx 52'01	3°39'35
minimum elong	797 Feb 05 j 07:21	20° \approx 48'55	3°47'38	minimum elong	798 Jan 19 j 16:05	3° \approx 56'48	3°39'25
min. Earth dist.	797 Feb 08 j 01:20	17° \approx 55'27	0.62680 AU	min. Earth dist.	798 Jan 21 j 20:16	1° \approx 24'27	0.64450 AU
morning rise	797 Feb 11 j 12:06	14° \approx 49'26			798 Jan 23 j 02:49	30° \mathbb{R} \mathcal{B}	
direct	797 Feb 18 j 11:38	12° \approx 11'04		morning rise	798 Jan 25 j 10:58	27° \mathcal{B} 45'36	
desc. node	797 Feb 25 j 23:50	14° \approx 44'42		direct	798 Feb 01 j 07:30	24° \mathcal{B} 54'27	
morning max el	797 Mar 04 j 10:46	20° \approx 05'06	27°47'28		798 Feb 11 j 21:32	0° \approx	
	797 Mar 12 j 23:10	0° \mathcal{H}		desc. node	798 Feb 12 j 20:53	0° \approx 51'33	
	797 Mar 31 j 21:43	0° \mathcal{Y}		morning max el	798 Feb 14 j 19:42	2° \approx 43'24	27°22'23
morning set	797 Apr 07 j 08:49	12° \mathcal{Y} 29'32			798 Mar 07 j 06:21	0° \mathcal{H}	
max. Earth dist.	797 Apr 12 j 21:31	24° \mathcal{Y} 00'56	1.32755 AU	morning set	798 Mar 22 j 01:59	26° \mathcal{H} 20'51	
					798 Mar 23 j 22:14	0° \mathcal{Y}	
superior conj	797 Apr 14 j 22:07	28° \mathcal{Y} 22'26	-0°09'58	max. Earth dist.	798 Mar 26 j 21:34	6° \mathcal{Y} 02'53	1.33605 AU
minimum elong	797 Apr 14 j 22:36	28° \mathcal{Y} 25'01	0°09'52				
behind sun begin	797 Apr 14 j 18:29	28° \mathcal{Y} 02'48		superior conj	798 Mar 30 j 03:15	12° \mathcal{Y} 49'35	-0°37'13
behind sun end	797 Apr 15 j 02:42	28° \mathcal{Y} 47'14		minimum elong	798 Mar 30 j 05:04	12° \mathcal{Y} 59'15	0°36'51
asc. node	797 Apr 15 j 20:46	0° \mathcal{B} 25'10		asc. node	798 Apr 02 j 17:48	20° \mathcal{Y} 30'55	
	797 Apr 15 j 16:08	0° \mathcal{B}		evening rise	798 Apr 06 j 09:14	28° \mathcal{Y} 14'59	
evening rise	797 Apr 21 j 22:03	13° \mathcal{B} 28'45			798 Apr 07 j 05:20	0° \mathcal{B}	
	797 Apr 30 j 06:38	0° \mathbb{I}			798 Apr 25 j 05:49	0° \mathbb{I}	
evening max el	797 May 15 j 23:34	21° \mathbb{I} 58'50	23°50'20	evening max el	798 Apr 27 j 15:59	2° \mathbb{I} 32'46	22°14'55
desc. node	797 May 24 j 23:05	28° \mathbb{I} 00'55		retrograde	798 May 10 j 12:50	8° \mathbb{I} 53'02	
retrograde	797 May 29 j 17:40	28° \mathbb{I} 52'43		desc. node	798 May 11 j 20:07	8° \mathbb{I} 49'13	
evening set	797 Jun 02 j 21:54	28° \mathbb{I} 14'15		evening set	798 May 13 j 09:32	8° \mathbb{I} 34'57	
min. Earth dist.	797 Jun 09 j 10:25	25° \mathbb{I} 08'29	0.56216 AU	min. Earth dist.	798 May 21 j 22:33	4° \mathbb{I} 55'10	0.55165 AU
inferior conj	797 Jun 11 j 18:13	23° \mathbb{I} 43'30	-4°17'32	inferior conj	798 May 22 j 18:34	4° \mathbb{I} 26'58	-2°59'14
minimum elong	797 Jun 11 j 12:09	23° \mathbb{I} 52'47	4°16'27	minimum elong	798 May 22 j 11:16	4° \mathbb{I} 37'15	2°57'05
morning rise	797 Jun 20 j 05:08	19° \mathbb{I} 45'06		morning rise	798 May 31 j 14:44	0° \mathbb{I} 33'35	
direct	797 Jun 22 j 21:30	19° \mathbb{I} 26'42		direct	798 Jun 03 j 12:58	0° \mathbb{I} 14'15	
morning max el	797 Jul 02 j 22:15	24° \mathbb{I} 05'33	19°56'31	morning max el	798 Jun 15 j 05:03	5° \mathbb{I} 41'13	21°18'02
	797 Jul 08 j 01:14	0° \mathcal{G}		asc. node	798 Jun 29 j 17:04	26° \mathbb{I} 30'21	
asc. node	797 Jul 12 j 20:02	7° \mathcal{G} 24'17			798 Jul 01 j 12:43	0° \mathcal{G}	
morning set	797 Jul 20 j 22:01	22° \mathcal{G} 46'08		morning set	798 Jul 05 j 06:07	7° \mathcal{G} 31'15	

superior conj	798 Jul 12 j 15:25	22°☿57'26	1°41'01	superior conj	799 Jun 26 j 20:02	7°☿38'04	1°29'43
minimum elong	798 Jul 12 j 13:46	22°☿48'56	1°40'54	minimum elong	799 Jun 26 j 17:43	7°☿25'43	1°29'27
	798 Jul 16 j 02:06	0°♌		max. Earth dist.	799 Jun 29 j 14:13	13°☿27'32	1.33944 AU
max. Earth dist.	798 Jul 16 j 17:59	1°♌19'35	1.35281 AU	evening rise	799 Jul 04 j 13:31	23°☿34'26	
evening rise	798 Jul 21 j 01:34	9°♌44'17			799 Jul 07 j 21:24	0°♌	
	798 Aug 01 j 14:00	0°♍		desc. node	799 Jul 25 j 16:30	29°♌17'31	
desc. node	798 Aug 07 j 19:28	9°♍40'28			799 Jul 26 j 04:38	0°♍	
	798 Aug 23 j 15:44	0°♎		evening max el	799 Aug 07 j 23:16	15°♍14'33	27°15'50
evening max el	798 Aug 25 j 11:24	1°♎49'30	26°38'40	retrograde	799 Aug 21 j 09:18	22°♍33'23	
retrograde	798 Sep 07 j 10:01	9°♎03'22		evening set	799 Aug 28 j 10:10	19°♍48'44	
evening set	798 Sep 14 j 00:35	6°♎20'55		min. Earth dist.	799 Sep 01 j 04:34	16°♍15'22	0.64700 AU
min. Earth dist.	798 Sep 18 j 01:37	2°♎11'09	0.65978 AU	inferior conj	799 Sep 03 j 10:12	13°♍48'48	-2°54'12
inferior conj	798 Sep 19 j 18:22	0°♎09'29	-1°58'31	minimum elong	799 Sep 03 j 14:34	13°♍36'49	2°52'43
minimum elong	798 Sep 19 j 21:27	0°♎00'18	1°57'17	morning rise	799 Sep 09 j 19:50	8°♍19'16	
	798 Sep 19 j 21:33	30°♍♍		direct	799 Sep 12 j 11:50	7°♍42'04	
morning rise	798 Sep 25 j 18:48	24°♍25'16		asc. node	799 Sep 12 j 13:19	7°♍42'05	
asc. node	798 Sep 25 j 16:17	24°♍28'45		morning max el	799 Sep 18 j 23:58	11°♍10'17	18°02'46
direct	798 Sep 28 j 17:15	23°♍36'58			799 Oct 01 j 22:38	0°♎	
morning max el	798 Oct 05 j 08:49	27°♍16'14	18°30'42	morning set	799 Oct 06 j 17:13	8°♎00'39	
	798 Oct 07 j 19:03	0°♎					
morning set	798 Oct 25 j 09:29	26°♎47'41		superior conj	799 Oct 20 j 10:05	0°♍32'44	0°08'15
	798 Oct 27 j 09:26	0°♍		minimum elong	799 Oct 20 j 11:05	0°♍36'44	0°08'07
desc. node	798 Nov 03 j 18:44	11°♍45'56		behind sun begin	799 Oct 20 j 01:51	29°♎59'41	
				behind sun end	799 Oct 20 j 20:19	1°♍13'42	
superior conj	798 Nov 10 j 01:29	21°♍40'14	-0°40'46		799 Oct 20 j 01:56	0°♍	
minimum elong	798 Nov 09 j 20:11	21°♍19'27	0°40'03	desc. node	799 Oct 21 j 15:48	2°♍31'35	
max. Earth dist.	798 Nov 10 j 22:16	23°♍01'56	1.45085 AU	max. Earth dist.	799 Oct 24 j 17:07	7°♍22'49	1.44719 AU
	798 Nov 15 j 08:44	0°♎		evening rise	799 Nov 05 j 19:49	26°♍16'57	
evening rise	798 Nov 26 j 03:39	16°♎59'59			799 Nov 08 j 05:41	0°♎	
	798 Dec 04 j 08:58	0°♏		greatest brilliancy	799 Nov 19 j 16:25	17°♎22'51	-0.6m
greatest brilliancy	798 Dec 05 j 12:03	1°♏46'06	-0.8m		799 Nov 28 j 18:23	0°♏	
evening max el	798 Dec 18 j 15:54	20°♏05'42	19°06'27	evening max el	799 Dec 01 j 21:16	3°♏33'52	19°59'15
asc. node	798 Dec 22 j 15:33	23°♏15'40		retrograde	799 Dec 09 j 12:14	8°♏01'40	
retrograde	798 Dec 25 j 14:41	24°♏03'29		asc. node	799 Dec 09 j 12:36	8°♏01'40	
evening set	798 Dec 28 j 22:10	22°♏59'43		evening set	799 Dec 13 j 03:35	6°♏44'17	
inferior conj	799 Jan 03 j 13:04	17°♏11'08	3°17'28	inferior conj	799 Dec 18 j 14:35	0°♏41'59	2°44'54
minimum elong	799 Jan 03 j 10:34	17°♏19'02	3°16'59	minimum elong	799 Dec 18 j 11:51	0°♏51'05	2°44'08
min. Earth dist.	799 Jan 05 j 00:24	15°♏19'24	0.65840 AU		799 Dec 19 j 03:08	30°♎♎	
morning rise	799 Jan 08 j 22:43	11°♏00'23		min. Earth dist.	799 Dec 19 j 12:11	29°♎29'48	0.66834 AU
direct	799 Jan 15 j 09:39	8°♏10'44		morning rise	799 Dec 23 j 19:55	24°♎28'55	
morning max el	799 Jan 28 j 05:25	15°♏43'56	26°27'39	direct	799 Dec 29 j 17:29	21°♎51'39	
desc. node	799 Jan 30 j 17:55	18°♏23'57		morning max el	800 Jan 10 j 14:20	28°♎55'47	25°11'55
	799 Feb 09 j 00:22	0°♏			800 Jan 11 j 15:14	0°♏	
	799 Feb 28 j 01:53	0°♐		desc. node	800 Jan 17 j 14:58	6°♏57'16	
morning set	799 Mar 05 j 07:18	9°♐32'31			800 Feb 02 j 19:46	0°♏	
max. Earth dist.	799 Mar 09 j 10:42	17°♐31'39	1.34899 AU	morning set	800 Feb 15 j 19:50	21°♏50'02	
				max. Earth dist.	800 Feb 19 j 12:28	28°♏35'53	1.36628 AU
superior conj	799 Mar 14 j 02:04	26°♐52'58	-1°04'10		800 Feb 20 j 06:25	0°♐	
minimum elong	799 Mar 14 j 05:11	27°♐08'55	1°03'38				
	799 Mar 15 j 14:18	0°♑		superior conj	800 Feb 25 j 15:42	10°♐24'00	-1°29'04
asc. node	799 Mar 20 j 14:51	10°♑28'18		minimum elong	800 Feb 25 j 19:39	10°♐43'31	1°28'32
evening rise	799 Mar 21 j 17:53	12°♑48'17		evening rise	800 Mar 04 j 21:48	27°♐01'13	
	799 Mar 30 j 17:06	0°♒		asc. node	800 Mar 06 j 11:55	0°♑12'07	
evening max el	799 Apr 09 j 16:56	13°♒29'34	20°48'29		800 Mar 06 j 09:29	0°♑	
retrograde	799 Apr 21 j 02:01	19°♒00'33		evening max el	800 Mar 22 j 05:18	25°♑03'36	19°38'39
evening set	799 Apr 23 j 06:07	18°♒49'18		retrograde	800 Mar 31 j 21:12	29°♑42'36	
desc. node	799 Apr 28 j 17:08	16°♒55'31		evening set	800 Apr 02 j 23:17	29°♑30'32	
inferior conj	799 May 02 j 12:38	14°♒51'23	-1°05'58	inferior conj	800 Apr 11 j 14:51	25°♑27'00	0°50'32
minimum elong	799 May 02 j 09:30	14°♒55'50	1°04'51	minimum elong	800 Apr 11 j 16:58	25°♑23'38	0°49'48
min. Earth dist.	799 May 03 j 11:19	14°♒19'02	0.55014 AU	min. Earth dist.	800 Apr 14 j 01:41	23°♑54'22	0.55811 AU
morning rise	799 May 11 j 12:25	10°♒44'10		desc. node	800 Apr 14 j 14:10	23°♑35'20	
direct	799 May 14 j 23:04	10°♒18'37		morning rise	800 Apr 20 j 08:05	20°♑49'19	
morning max el	799 May 28 j 01:56	16°♒37'16	22°54'37	direct	800 Apr 24 j 16:51	20°♑06'39	
	799 Jun 07 j 16:29	0°♒		morning max el	800 May 08 j 17:14	27°♑08'59	24°35'55
asc. node	799 Jun 16 j 14:07	16°♒01'47			800 May 11 j 11:42	0°♒	
morning set	799 Jun 19 j 17:01	22°♒26'08			800 May 30 j 14:31	0°♒	
	799 Jun 23 j 06:29	0°♓		asc. node	800 Jun 02 j 11:11	5°♒50'48	

morning set	800 Jun 03 j 04:57	7°♊24'01			801 May 22 j 06:10	0°♊	
superior conj	800 Jun 10 j 04:58	22°♊30'55	1°13'39		superior conj	801 May 25 j 16:11	7°♊29'06 0°53'44
minimum elong	800 Jun 10 j 02:32	22°♊17'40	1°13'16		minimum elong	801 May 25 j 14:06	7°♊17'39 0°53'21
max. Earth dist.	800 Jun 11 j 18:52	25°♊56'05	1.33003 AU		max. Earth dist.	801 May 26 j 05:14	8°♊40'41 1.32450 AU
	800 Jun 13 j 16:25	0°♊			evening rise	801 Jun 01 j 16:06	22°♊32'46
evening rise	800 Jun 17 j 11:23	7°♊53'49				801 Jun 05 j 08:18	0°♊
	800 Jun 29 j 08:18	0°♊				801 Jun 23 j 09:21	0°♊
desc. node	800 Jul 11 j 13:32	18°♊15'06			desc. node	801 Jun 28 j 10:31	6°♊16'57
evening max el	800 Jul 20 j 09:08	28°♊15'06	27°24'55		evening max el	801 Jul 02 j 14:43	10°♊39'23 27°01'39
	800 Jul 22 j 07:34	0°♊			retrograde	801 Jul 16 j 12:54	17°♊54'59
retrograde	800 Aug 03 j 02:39	5°♊33'41			evening set	801 Jul 23 j 12:56	15°♊43'35
evening set	800 Aug 10 j 07:41	2°♊58'42			min. Earth dist.	801 Jul 27 j 04:57	13°♊01'49 0.61138 AU
	800 Aug 13 j 20:29	30°♊♊			inferior conj	801 Jul 30 j 09:28	10°♊16'09 -4°26'24
min. Earth dist.	800 Aug 13 j 21:54	29°♊56'39	0.63063 AU		minimum elong	801 Jul 30 j 13:45	10°♊06'50 4°25'43
inferior conj	800 Aug 16 j 16:18	27°♊13'34	-3°45'15		morning rise	801 Aug 06 j 16:17	5°♊25'10
minimum elong	800 Aug 16 j 21:19	27°♊01'14	3°43'58		direct	801 Aug 09 j 03:03	5°♊00'54
morning rise	800 Aug 23 j 12:13	22°♊01'56			morning max el	801 Aug 16 j 05:33	8°♊32'26 18°00'54
direct	800 Aug 26 j 00:18	21°♊32'33			asc. node	801 Aug 16 j 07:26	8°♊37'03
asc. node	800 Aug 29 j 10:23	22°♊28'30				801 Aug 30 j 03:49	0°♊
morning max el	800 Sep 01 j 15:53	24°♊58'12	17°52'30		morning set	801 Sep 01 j 02:41	3°♊35'53
	800 Sep 05 j 19:18	0°♊					
morning set	800 Sep 18 j 01:00	20°♊22'38			superior conj	801 Sep 11 j 06:05	22°♊00'56 1°20'54
	800 Sep 23 j 12:54	0°♊			minimum elong	801 Sep 11 j 10:32	22°♊20'34 1°20'27
						801 Sep 15 j 20:47	0°♊
superior conj	800 Sep 29 j 18:34	10°♊37'10	0°50'36		max. Earth dist.	801 Sep 18 j 19:44	4°♊58'13 1.42062 AU
minimum elong	800 Sep 29 j 23:04	10°♊56'00	0°50'00		desc. node	801 Sep 24 j 09:53	14°♊04'33
max. Earth dist.	800 Oct 06 j 08:54	21°♊26'43	1.43663 AU		evening rise	801 Sep 24 j 19:35	14°♊43'17
desc. node	800 Oct 07 j 12:52	23°♊19'02				801 Oct 04 j 17:13	0°♊
	800 Oct 11 j 18:02	0°♊				801 Oct 27 j 02:24	0°♊
evening rise	800 Oct 15 j 03:16	5°♊16'28			evening max el	801 Oct 27 j 15:28	0°♊33'34 22°21'07
	800 Oct 31 j 15:37	0°♊			retrograde	801 Nov 06 j 05:37	6°♊15'40
evening max el	800 Nov 13 j 21:07	17°♊03'09	21°05'24		evening set	801 Nov 10 j 18:33	4°♊26'05
retrograde	800 Nov 22 j 09:52	22°♊06'55			asc. node	801 Nov 12 j 06:39	3°♊00'48
asc. node	800 Nov 25 j 09:37	21°♊16'42				801 Nov 14 j 17:51	30°♊♊
evening set	800 Nov 26 j 10:58	20°♊34'15			inferior conj	801 Nov 16 j 02:56	28°♊06'39 1°17'35
inferior conj	800 Dec 01 j 19:53	14°♊21'34	2°04'22		minimum elong	801 Nov 16 j 01:14	28°♊12'31 1°16'54
minimum elong	800 Dec 01 j 17:27	14°♊29'54	2°03'30		min. Earth dist.	801 Nov 16 j 01:25	28°♊11'53 0.67723 AU
min. Earth dist.	800 Dec 02 j 05:22	13°♊48'56	0.67453 AU		morning rise	801 Nov 21 j 07:46	21°♊55'11
morning rise	800 Dec 06 j 23:45	8°♊08'13			direct	801 Nov 25 j 23:27	19°♊59'34
direct	800 Dec 12 j 06:25	5°♊50'11			morning max el	801 Dec 05 j 10:02	25°♊34'11 22°17'52
morning max el	800 Dec 22 j 22:55	12°♊12'35	23°45'24			801 Dec 09 j 09:54	0°♊
desc. node	801 Jan 03 j 12:02	26°♊14'06			desc. node	801 Dec 21 j 09:05	16°♊01'30
	801 Jan 06 j 05:19	0°♊				801 Dec 30 j 18:09	0°♊
	801 Jan 25 j 15:38	0°♊			morning set	802 Jan 07 j 18:37	12°♊39'56
morning set	801 Jan 27 j 09:30	2°♊57'09			max. Earth dist.	802 Jan 13 j 04:08	21°♊35'20 1.40817 AU
max. Earth dist.	801 Jan 31 j 07:27	9°♊44'59	1.38680 AU			802 Jan 18 j 01:39	0°♊
superior conj	801 Feb 07 j 16:25	23°♊13'20	-1°49'22		superior conj	802 Jan 20 j 23:26	5°♊08'40 -2°01'33
minimum elong	801 Feb 07 j 20:11	23°♊31'07	1°49'02		minimum elong	802 Jan 21 j 01:12	5°♊16'35 2°01'30
	801 Feb 11 j 05:36	0°♊			evening rise	802 Jan 31 j 04:26	23°♊57'26
evening rise	801 Feb 16 j 18:24	10°♊47'00				802 Feb 03 j 10:13	0°♊
asc. node	801 Feb 21 j 08:57	19°♊37'07			asc. node	802 Feb 08 j 05:59	8°♊36'21
	801 Feb 27 j 10:01	0°♊			evening max el	802 Feb 16 j 10:42	19°♊57'13 18°18'01
evening max el	801 Mar 05 j 04:12	7°♊15'28	18°48'19		retrograde	802 Feb 23 j 14:12	23°♊30'28
retrograde	801 Mar 13 j 08:16	11°♊13'19			evening set	802 Feb 26 j 02:45	23°♊04'55
evening set	801 Mar 15 j 15:12	10°♊55'52			inferior conj	802 Mar 05 j 05:18	18°♊24'16 3°18'10
inferior conj	801 Mar 23 j 11:32	6°♊36'03	2°21'42		minimum elong	802 Mar 05 j 08:32	18°♊17'20 3°17'37
minimum elong	801 Mar 23 j 15:45	6°♊28'19	2°20'33		min. Earth dist.	802 Mar 08 j 15:23	15°♊30'06 0.59414 AU
min. Earth dist.	801 Mar 26 j 18:28	4°♊12'31	0.57388 AU		morning rise	802 Mar 12 j 11:58	12°♊47'54
morning rise	801 Mar 31 j 13:12	1°♊25'16			direct	802 Mar 18 j 21:17	10°♊57'29
desc. node	801 Apr 01 j 11:11	1°♊03'08			desc. node	802 Mar 19 j 08:13	10°♊58'02
direct	801 Apr 06 j 00:39	0°♊12'06			morning max el	802 Apr 02 j 04:54	18°♊42'13 27°13'55
morning max el	801 Apr 20 j 08:41	7°♊42'17	26°07'14			802 Apr 11 j 17:12	0°♊
	801 May 06 j 23:13	0°♊				802 Apr 29 j 13:27	0°♊
morning set	801 May 18 j 16:15	22°♊19'23			morning set	802 May 03 j 01:17	7°♊06'15
asc. node	801 May 20 j 08:14	25°♊51'49			asc. node	802 May 07 j 05:17	15°♊59'38

max. Earth dist.	802 May 09 j 17:50	21°♄30'43	1.32267 AU	asc. node	803 Apr 24 j 02:18	6°♄09'46	
superior conj	802 May 10 j 03:55	22°♄26'11	0°30'43	superior conj	803 Apr 24 j 14:30	7°♄16'17	0°05'24
minimum elong	802 May 10 j 02:36	22°♄18'54	0°30'27	minimum elong	803 Apr 24 j 14:15	7°♄14'54	0°05'20
	802 May 13 j 14:42	0°♂		behind sun begin	803 Apr 24 j 09:25	6°♄48'33	
evening rise	802 May 17 j 01:10	7°♂22'47		behind sun end	803 Apr 24 j 19:05	7°♄41'15	
	802 May 28 j 21:23	0°♄		evening rise	803 May 01 j 12:31	22°♄16'25	
evening max el	802 Jun 14 j 13:52	22°♄18'58	26°05'58		803 May 05 j 06:19	0°♂	
desc. node	802 Jun 15 j 07:30	23°♄00'07			803 May 24 j 03:54	0°♄	
retrograde	802 Jun 28 j 14:24	29°♄30'37		evening max el	803 May 27 j 06:18	3°♄14'42	24°44'10
evening set	802 Jul 04 j 21:16	27°♄54'26		desc. node	803 Jun 02 j 04:31	7°♄52'43	
min. Earth dist.	802 Jul 09 j 02:35	25°♄16'47	0.59078 AU	retrograde	803 Jun 10 j 05:04	10°♄18'50	
inferior conj	802 Jul 12 j 10:08	22°♄47'17	-4°49'10	evening set	803 Jun 15 j 06:10	9°♄21'09	
minimum elong	802 Jul 12 j 11:33	22°♄44'37	4°49'06	min. Earth dist.	803 Jun 20 j 17:34	6°♄29'59	0.57139 AU
morning rise	802 Jul 20 j 04:00	18°♄18'52		inferior conj	803 Jun 23 j 15:07	4°♄36'34	-4°41'14
direct	802 Jul 22 j 15:53	17°♄57'44		minimum elong	803 Jun 23 j 11:42	4°♄42'11	4°40'54
morning max el	802 Jul 30 j 13:55	21°♄45'06	18°29'16	morning rise	803 Jul 01 j 19:58	0°♄29'32	
asc. node	802 Aug 03 j 04:30	25°♄52'54		direct	803 Jul 04 j 10:29	0°♄10'27	
	802 Aug 06 j 00:37	0°♂		morning max el	803 Jul 13 j 13:57	4°♄26'00	19°18'41
morning set	802 Aug 15 j 17:14	17°♂27'12		asc. node	803 Jul 21 j 01:33	14°♄00'38	
	802 Aug 22 j 06:17	0°♂			803 Jul 29 j 19:33	0°♂	
				morning set	803 Jul 30 j 16:44	1°♂45'06	
superior conj	802 Aug 24 j 16:42	4°♂33'43	1°38'50	superior conj	803 Aug 07 j 20:40	17°♂58'38	1°46'10
minimum elong	802 Aug 24 j 19:23	4°♂46'09	1°38'40	minimum elong	803 Aug 07 j 21:19	18°♂01'47	1°46'08
max. Earth dist.	802 Sep 01 j 01:50	17°♂49'39	1.40123 AU	max. Earth dist.	803 Aug 14 j 05:22	0°♂00'52	1.38091 AU
evening rise	802 Sep 05 j 09:36	25°♂11'08			803 Aug 14 j 05:11	0°♂	
	802 Sep 08 j 07:47	0°♂		evening rise	803 Aug 18 j 00:02	6°♂47'34	
desc. node	802 Sep 11 j 06:53	4°♂45'01		desc. node	803 Aug 29 j 03:53	25°♂15'39	
	802 Sep 28 j 11:41	0°♂			803 Sep 01 j 06:11	0°♂	
evening max el	802 Oct 10 j 05:38	14°♂07'02	23°41'04	evening max el	803 Sep 22 j 17:32	27°♂43'15	24°58'47
retrograde	802 Oct 20 j 22:19	20°♂25'25			803 Sep 25 j 04:47	0°♂	
evening set	802 Oct 26 j 00:46	18°♂18'07		retrograde	803 Oct 04 j 10:58	4°♂31'39	
asc. node	802 Oct 30 j 03:41	13°♂38'21		evening set	803 Oct 10 j 03:53	2°♂07'29	
inferior conj	802 Oct 31 j 10:00	11°♂55'37	0°26'04		803 Oct 12 j 06:40	30°♂♂	
minimum elong	802 Oct 31 j 09:23	11°♂57'44	0°25'47	min. Earth dist.	803 Oct 14 j 16:39	27°♂00'23	0.67277 AU
min. Earth dist.	802 Oct 30 j 21:58	12°♂36'37	0.67664 AU	inferior conj	803 Oct 15 j 15:18	25°♂45'52	-0°28'52
morning rise	802 Nov 05 j 17:56	5°♂48'25		minimum elong	803 Oct 15 j 16:01	25°♂43'30	0°28'33
direct	802 Nov 09 j 19:37	4°♂15'15		asc. node	803 Oct 17 j 00:45	23°♂57'34	
morning max el	802 Nov 18 j 03:22	9°♂05'31	20°57'09	morning rise	803 Oct 21 j 04:18	19°♂45'23	
	802 Dec 04 j 01:58	0°♂		direct	803 Oct 24 j 17:37	18°♂32'31	
desc. node	802 Dec 08 j 06:08	6°♂11'06		morning max el	803 Nov 01 j 04:31	22°♂47'30	19°48'23
morning set	802 Dec 18 j 00:55	21°♂09'17			803 Nov 07 j 04:33	0°♂	
	802 Dec 23 j 15:00	0°♂		desc. node	803 Nov 25 j 03:11	26°♂36'09	
max. Earth dist.	802 Dec 26 j 08:16	4°♂23'41	1.42735 AU	morning set	803 Nov 26 j 21:19	29°♂18'43	
					803 Nov 27 j 08:00	0°♂	
superior conj	803 Jan 02 j 07:25	15°♂57'38	-2°01'08	max. Earth dist.	803 Dec 08 j 19:43	17°♂59'53	1.44169 AU
minimum elong	803 Jan 02 j 04:53	15°♂46'55	2°01'04				
	803 Jan 10 j 09:41	0°♂		superior conj	803 Dec 13 j 12:42	25°♂33'00	-1°43'33
evening rise	803 Jan 14 j 00:09	6°♂24'59		minimum elong	803 Dec 13 j 05:18	25°♂03'03	1°42'58
asc. node	803 Jan 26 j 02:59	27°♂02'00			803 Dec 16 j 06:21	0°♂	
	803 Jan 28 j 06:37	0°♂		evening rise	803 Dec 27 j 01:10	18°♂01'05	
evening max el	803 Jan 30 j 21:42	3°♂00'23	18°07'29		804 Jan 03 j 02:47	0°♂	
retrograde	803 Feb 06 j 12:15	6°♂24'53		asc. node	804 Jan 13 j 00:01	14°♂43'53	
evening set	803 Feb 09 j 05:39	5°♂49'57		evening max el	804 Jan 14 j 10:13	16°♂17'09	18°16'11
inferior conj	803 Feb 15 j 17:57	0°♂48'05	3°43'51	retrograde	804 Jan 20 j 21:44	19°♂46'16	
minimum elong	803 Feb 15 j 19:04	0°♂45'19	3°43'47	evening set	804 Jan 23 j 19:50	19°♂01'07	
	803 Feb 16 j 13:21	30°♂♂		inferior conj	804 Jan 29 j 21:32	13°♂39'32	3°46'14
min. Earth dist.	803 Feb 18 j 19:26	27°♂48'08	0.61531 AU	minimum elong	804 Jan 29 j 20:43	13°♂41'47	3°46'12
morning rise	803 Feb 22 j 07:04	24°♂55'01		min. Earth dist.	804 Feb 01 j 08:57	10°♂55'30	0.63469 AU
direct	803 Mar 01 j 04:16	22°♂31'12		morning rise	804 Feb 04 j 20:49	7°♂36'29	
desc. node	803 Mar 06 j 05:16	23°♂40'29		direct	804 Feb 11 j 19:51	4°♂51'03	
	803 Mar 14 j 22:06	0°♂		desc. node	804 Feb 21 j 02:19	8°♂43'26	
morning max el	803 Mar 15 j 07:36	0°♂23'17	27°46'03	morning max el	804 Feb 25 j 15:16	12°♂44'24	27°41'02
	803 Apr 05 j 18:20	0°♂			804 Mar 10 j 11:00	0°♂	
morning set	803 Apr 17 j 06:06	21°♂38'03			804 Mar 28 j 05:24	0°♂	
	803 Apr 21 j 05:52	0°♂		morning set	804 Mar 31 j 04:24	5°♂47'26	
max. Earth dist.	803 Apr 23 j 04:47	4°♂12'44	1.32464 AU				

max. Earth dist.	804 Apr 05 j 10:01	16°♿33'16	1.33059 AU		805 Mar 20 j 01:09	0°♿	
superior conj	804 Apr 07 j 22:12	21°♿53'51	-0°21'28	superior conj	805 Mar 23 j 00:57	6°♿11'33	-0°48'47
minimum elong	804 Apr 07 j 23:15	21°♿59'27	0°21'16	minimum elong	805 Mar 23 j 03:20	6°♿24'04	0°48'20
asc. node	804 Apr 09 j 23:20	26°♿18'31		asc. node	805 Mar 27 j 20:23	16°♿21'00	
	804 Apr 11 j 16:22	0°♿		evening rise	805 Mar 30 j 10:38	21°♿48'26	
evening rise	804 Apr 15 j 00:19	7°♿07'24			805 Apr 03 j 11:17	0°♿	
	804 Apr 27 j 03:33	0°♿		evening max el	805 Apr 19 j 15:52	24°♿27'59	21°36'33
evening max el	804 May 07 j 20:28	13°♿47'25	23°09'23		805 Apr 28 j 11:38	0°♿	
desc. node	804 May 19 j 01:32	20°♿18'44		retrograde	805 May 01 j 23:22	0°♿28'49	
retrograde	804 May 21 j 07:39	20°♿30'19		evening set	805 May 04 j 10:31	0°♿15'05	
evening set	804 May 24 j 21:17	20°♿02'22		desc. node	805 May 05 j 22:34	29°♿54'00	
min. Earth dist.	804 Jun 01 j 06:03	16°♿43'38	0.55665 AU		805 May 05 j 13:45	30°♿♿	
inferior conj	804 Jun 03 j 00:27	15°♿41'40	-3°49'57	inferior conj	805 May 13 j 20:27	26°♿13'25	-2°13'55
minimum elong	804 Jun 02 j 17:11	15°♿52'20	3°48'16	minimum elong	805 May 13 j 14:25	26°♿21'53	2°11'55
morning rise	804 Jun 11 j 15:42	11°♿47'45		min. Earth dist.	805 May 13 j 18:38	26°♿15'57	0.54978 AU
direct	804 Jun 14 j 09:55	11°♿29'30		morning rise	805 May 22 j 19:06	22°♿16'12	
morning max el	804 Jun 25 j 03:27	16°♿27'26	20°29'01	direct	805 May 25 j 21:20	21°♿55'12	
	804 Jul 05 j 08:02	0°♿		morning max el	805 Jun 07 j 05:47	27°♿45'11	21°57'46
asc. node	804 Jul 06 j 22:37	2°♿48'16			805 Jun 09 j 11:16	0°♿	
morning set	804 Jul 13 j 22:21	16°♿21'57		asc. node	805 Jun 23 j 19:40	22°♿05'33	
	804 Jul 20 j 13:13	0°♿			805 Jun 27 j 18:07	0°♿	
				morning set	805 Jun 28 j 07:50	1°♿11'10	
superior conj	804 Jul 21 j 13:04	2°♿01'28	1°44'55				
minimum elong	804 Jul 21 j 12:05	1°♿56'31	1°44'52	superior conj	805 Jul 05 j 14:02	16°♿30'23	1°36'52
max. Earth dist.	804 Jul 26 j 11:38	11°♿50'27	1.36215 AU	minimum elong	805 Jul 05 j 12:02	16°♿19'53	1°36'42
evening rise	804 Jul 30 j 11:52	19°♿25'52		max. Earth dist.	805 Jul 09 j 02:06	23°♿45'44	1.34660 AU
	804 Aug 05 j 10:15	0°♿			805 Jul 12 j 04:46	0°♿	
desc. node	804 Aug 15 j 00:54	15°♿31'08		evening rise	805 Jul 13 j 16:18	2°♿53'13	
	804 Aug 25 j 07:47	0°♿			805 Jul 29 j 07:21	0°♿	
evening max el	804 Sep 04 j 05:10	11°♿20'53	26°06'52	desc. node	805 Aug 01 j 21:55	5°♿24'33	
retrograde	804 Sep 16 j 19:01	18°♿29'14		evening max el	805 Aug 17 j 17:18	24°♿53'51	26°57'38
evening set	804 Sep 23 j 02:03	15°♿51'39			805 Aug 24 j 03:30	0°♿	
min. Earth dist.	804 Sep 27 j 07:08	11°♿20'39	0.66550 AU	retrograde	805 Aug 30 j 21:45	2°♿11'18	
inferior conj	804 Sep 28 j 17:04	9°♿35'03	-1°25'39		805 Sep 05 j 23:51	30°♿♿	
minimum elong	804 Sep 28 j 19:16	9°♿28'10	1°24'44	evening set	805 Sep 06 j 17:03	29°♿26'50	
asc. node	804 Oct 02 j 21:49	4°♿55'56		min. Earth dist.	805 Sep 10 j 15:07	25°♿32'36	0.65471 AU
morning rise	804 Oct 04 j 12:52	3°♿44'03		inferior conj	805 Sep 12 j 13:13	23°♿19'34	-2°22'27
direct	804 Oct 07 j 15:58	2°♿47'59		minimum elong	805 Sep 12 j 16:53	23°♿08'58	2°21'05
morning max el	804 Oct 14 j 12:48	6°♿37'50	18°54'23	morning rise	805 Sep 18 j 17:23	17°♿41'01	
	804 Oct 31 j 01:43	0°♿		asc. node	805 Sep 19 j 18:53	17°♿14'39	
morning set	804 Nov 05 j 08:36	8°♿18'51		direct	805 Sep 21 j 12:42	16°♿57'57	
desc. node	804 Nov 11 j 00:12	17°♿12'00		morning max el	805 Sep 28 j 02:08	20°♿31'54	18°16'41
	804 Nov 19 j 03:52	0°♿			805 Oct 05 j 08:12	0°♿	
max. Earth dist.	804 Nov 20 j 12:09	2°♿06'51	1.44956 AU	morning set	805 Oct 17 j 00:08	18°♿44'30	
					805 Oct 23 j 22:29	0°♿	
superior conj	804 Nov 21 j 19:39	4°♿10'50	-1°07'35	desc. node	805 Oct 28 j 21:15	7°♿55'06	
minimum elong	804 Nov 21 j 11:43	3°♿39'36	1°06'39				
evening rise	804 Dec 07 j 03:38	28°♿39'15		superior conj	805 Oct 31 j 21:20	12°♿40'46	-0°19'49
	804 Dec 07 j 23:34	0°♿		minimum elong	805 Oct 31 j 18:45	12°♿30'34	0°19'29
evening max el	804 Dec 27 j 21:41	29°♿41'21	18°43'12	max. Earth dist.	805 Nov 03 j 06:57	16°♿27'54	1.45017 AU
	804 Dec 28 j 05:05	0°♿			805 Nov 11 j 22:20	0°♿	
asc. node	804 Dec 29 j 21:05	1°♿29'00		evening rise	805 Nov 17 j 06:51	8°♿21'45	
retrograde	805 Jan 03 j 14:21	3°♿26'00		greatest brilliancy	805 Nov 28 j 20:16	26°♿18'15	-0.7m
evening set	805 Jan 06 j 17:59	2°♿29'34			805 Dec 01 j 07:02	0°♿	
	805 Jan 09 j 18:00	30°♿♿		evening max el	805 Dec 11 j 05:53	13°♿09'34	19°27'06
inferior conj	805 Jan 12 j 12:06	26°♿50'21	3°31'42	asc. node	805 Dec 16 j 18:08	17°♿03'04	
minimum elong	805 Jan 12 j 10:01	26°♿56'41	3°31'23	retrograde	805 Dec 18 j 10:48	17°♿18'59	
min. Earth dist.	805 Jan 14 j 08:08	24°♿36'51	0.65085 AU	evening set	805 Dec 21 j 21:24	16°♿09'45	
morning rise	805 Jan 18 j 01:39	20°♿41'33		inferior conj	805 Dec 27 j 10:25	10°♿15'15	3°04'47
direct	805 Jan 24 j 18:41	17°♿49'12		minimum elong	805 Dec 27 j 07:45	10°♿23'54	3°04'08
desc. node	805 Feb 06 j 23:23	25°♿30'08		min. Earth dist.	805 Dec 28 j 15:48	8°♿39'54	0.66317 AU
morning max el	805 Feb 07 j 00:55	25°♿33'59	27°02'15	morning rise	806 Jan 01 j 17:52	4°♿03'19	
	805 Feb 11 j 02:54	0°♿		direct	806 Jan 07 j 23:36	1°♿17'30	
	805 Mar 03 j 22:56	0°♿		morning max el	806 Jan 20 j 10:12	8°♿40'03	25°57'17
morning set	805 Mar 14 j 17:02	19°♿23'27		desc. node	806 Jan 24 j 20:27	13°♿31'08	
max. Earth dist.	805 Mar 19 j 05:33	28°♿20'16	1.34093 AU		806 Feb 06 j 04:39	0°♿	

	806 Feb 24 j 10:43	0°♄			807 Jan 09 j 20:22	0°♄	
morning set	806 Feb 25 j 15:52	2°♄13'44		desc. node	807 Jan 11 j 17:29	2°♄24'28	
max. Earth dist.	806 Mar 01 j 13:13	9°♄34'14	1.35588 AU		807 Jan 30 j 11:40	0°♄	
				morning set	807 Feb 07 j 19:26	14°♄02'58	
superior conj	806 Mar 06 j 20:15	20°♄02'14	-1°15'08	max. Earth dist.	807 Feb 11 j 11:22	20°♄36'38	1.37482 AU
minimum elong	806 Mar 06 j 23:47	20°♄20'09	1°14'33		807 Feb 16 j 12:00	0°♄	
	806 Mar 11 j 16:56	0°♄					
evening rise	806 Mar 14 j 17:31	6°♄13'27		superior conj	807 Feb 18 j 04:55	3°♄16'58	-1°38'25
asc. node	806 Mar 14 j 17:26	6°♄12'58		minimum elong	807 Feb 18 j 08:57	3°♄36'33	1°37'57
	806 Mar 28 j 01:39	0°♄		evening rise	807 Feb 26 j 18:40	20°♄15'48	
evening max el	806 Apr 01 j 21:41	5°♄39'51	20°16'29	asc. node	807 Mar 01 j 14:29	25°♄49'32	
retrograde	806 Apr 12 j 12:57	10°♄47'21			807 Mar 03 j 19:00	0°♄	
evening set	806 Apr 14 j 14:55	10°♄36'25		evening max el	807 Mar 15 j 14:47	17°♄30'26	19°14'42
desc. node	806 Apr 22 j 19:37	7°♄08'28		retrograde	807 Mar 24 j 14:02	21°♄50'00	
inferior conj	806 Apr 23 j 16:12	6°♄38'15	-0°14'52	evening set	807 Mar 26 j 18:01	21°♄35'57	
minimum elong	806 Apr 23 j 15:31	6°♄39'16	0°14'36	inferior conj	807 Apr 04 j 01:26	17°♄26'04	1°33'22
transit middle	806 Apr 23 j 15:31	6°♄39'16	0°14'36	minimum elong	807 Apr 04 j 04:55	17°♄20'13	1°32'14
transit begin	806 Apr 23 j 13:55	6°♄41'37		min. Earth dist.	807 Apr 06 j 22:56	15°♄30'13	0.56408 AU
transit end	806 Apr 23 j 17:07	6°♄36'55		desc. node	807 Apr 09 j 16:38	13°♄52'03	
min. Earth dist.	806 Apr 25 j 08:03	5°♄39'36	0.55248 AU	morning rise	807 Apr 12 j 12:56	12°♄34'15	
morning rise	806 May 02 j 14:31	2°♄19'23		direct	807 Apr 17 j 09:08	11°♄40'13	
direct	806 May 06 j 09:51	1°♄47'52		morning max el	807 May 01 j 13:53	18°♄55'23	25°17'00
morning max el	806 May 19 j 23:21	8°♄26'51	23°37'54		807 May 10 j 20:43	0°♄	
	806 Jun 04 j 14:09	0°♄			807 May 27 j 18:48	0°♄	
asc. node	806 Jun 10 j 16:42	11°♄44'43		morning set	807 May 28 j 07:12	1°♄05'07	
morning set	806 Jun 12 j 19:19	16°♄07'14		asc. node	807 May 28 j 13:45	1°♄39'40	
	806 Jun 19 j 06:32	0°♄					
				superior conj	807 Jun 04 j 06:50	16°♄12'17	1°05'37
superior conj	806 Jun 19 j 20:42	1°♄16'17	1°23'25	minimum elong	807 Jun 04 j 04:29	15°♄59'28	1°05'14
minimum elong	806 Jun 19 j 18:16	1°♄03'11	1°23'06	max. Earth dist.	807 Jun 05 j 09:57	18°♄40'09	1.32723 AU
max. Earth dist.	806 Jun 22 j 02:11	6°♄02'10	1.33497 AU		807 Jun 10 j 17:25	0°♄	
evening rise	806 Jun 27 j 08:52	16°♄56'41		evening rise	807 Jun 11 j 10:00	1°♄25'46	
	806 Jul 04 j 05:06	0°♄			807 Jun 27 j 03:38	0°♄	
desc. node	806 Jul 19 j 18:57	24°♄45'59		desc. node	807 Jul 06 j 15:57	13°♄22'23	
	806 Jul 23 j 19:11	0°♄		evening max el	807 Jul 13 j 13:17	20°♄57'28	27°19'09
evening max el	806 Jul 31 j 04:48	8°♄10'25	27°23'39	retrograde	807 Jul 27 j 08:37	28°♄14'09	
retrograde	806 Aug 13 j 18:28	15°♄29'03		evening set	807 Aug 03 j 13:03	25°♄47'29	
evening set	806 Aug 20 j 21:55	12°♄47'19		min. Earth dist.	807 Aug 07 j 03:03	22°♄55'57	0.62276 AU
min. Earth dist.	806 Aug 24 j 14:15	9°♄27'55	0.64039 AU	inferior conj	807 Aug 10 j 02:18	20°♄09'56	-4°04'21
inferior conj	806 Aug 27 j 01:16	6°♄53'21	-3°16'42	minimum elong	807 Aug 10 j 07:14	19°♄58'25	4°03'16
minimum elong	806 Aug 27 j 06:02	6°♄40'51	3°15'15	morning rise	807 Aug 17 j 02:48	15°♄06'43	
morning rise	806 Sep 02 j 15:08	1°♄30'44		direct	807 Aug 19 j 14:09	14°♄39'39	
direct	806 Sep 05 j 05:12	0°♄57'06		asc. node	807 Aug 24 j 12:58	16°♄30'59	
asc. node	806 Sep 06 j 15:56	1°♄07'47		morning max el	807 Aug 26 j 09:11	18°♄06'21	17°53'46
morning max el	806 Sep 11 j 17:52	4°♄23'19	17°56'11		807 Sep 03 j 22:31	0°♄	
morning set	806 Sep 28 j 18:52	0°♄29'07		morning set	807 Sep 11 j 10:58	13°♄14'59	
	806 Sep 28 j 12:05	0°♄			807 Sep 20 j 22:01	0°♄	
superior conj	806 Oct 11 j 14:47	21°♄59'53	0°27'29	superior conj	807 Sep 22 j 10:58	2°♄38'36	1°05'01
minimum elong	806 Oct 11 j 17:46	22°♄12'02	0°27'05	minimum elong	807 Sep 22 j 15:47	2°♄59'12	1°04'27
desc. node	806 Oct 15 j 18:17	28°♄41'30		max. Earth dist.	807 Sep 29 j 15:30	14°♄38'17	1.43041 AU
	806 Oct 16 j 13:56	0°♄		desc. node	807 Oct 02 j 15:18	19°♄28'17	
max. Earth dist.	806 Oct 17 j 01:05	0°♄44'28	1.44349 AU	evening rise	807 Oct 07 j 02:29	26°♄32'02	
evening rise	806 Oct 27 j 17:20	17°♄26'21			807 Oct 09 j 08:01	0°♄	
	806 Nov 04 j 23:04	0°♄			807 Oct 29 j 21:11	0°♄	
evening max el	806 Nov 24 j 09:06	26°♄38'37	20°25'55	evening max el	807 Nov 07 j 06:31	10°♄07'56	21°36'37
	806 Nov 28 j 08:13	0°♄		retrograde	807 Nov 16 j 05:34	15°♄27'46	
retrograde	806 Dec 02 j 08:32	1°♄20'35		evening set	807 Nov 20 j 11:34	13°♄47'48	
asc. node	806 Dec 03 j 15:11	1°♄11'22		asc. node	807 Nov 20 j 12:13	13°♄46'30	
evening set	806 Dec 06 j 03:52	29°♄56'48		inferior conj	807 Nov 25 j 20:03	7°♄31'40	1°45'11
	806 Dec 06 j 02:07	30°♄		minimum elong	807 Nov 25 j 17:53	7°♄39'09	1°44'22
inferior conj	806 Dec 11 j 13:47	23°♄49'50	2°28'34	min. Earth dist.	807 Nov 26 j 00:39	7°♄15'44	0.67612 AU
minimum elong	806 Dec 11 j 11:08	23°♄58'50	2°27'43	morning rise	807 Dec 01 j 00:04	1°♄19'02	
min. Earth dist.	806 Dec 12 j 06:03	22°♄54'43	0.67151 AU		807 Dec 02 j 20:58	30°♄	
morning rise	806 Dec 16 j 18:13	17°♄36'40		direct	807 Dec 06 j 00:15	29°♄10'37	
direct	806 Dec 22 j 09:39	15°♄06'58			807 Dec 09 j 09:36	0°♄	
morning max el	807 Jan 02 j 18:35	21°♄53'40	24°35'47	morning max el	807 Dec 16 j 03:57	5°♄12'32	23°07'49

desc. node	807 Dec 29 j 14:32	21° ♄ 55'16		morning max el	808 Nov 27 j 17:31	18° ♄ 38'25	21°42'24
	808 Jan 04 j 05:26	0° ♄			808 Dec 07 j 02:12	0° ♄	
morning set	808 Jan 19 j 21:28	24° ♄ 35'10		desc. node	808 Dec 15 j 11:34	11° ♄ 52'56	
	808 Jan 23 j 02:20	0° ♄			808 Dec 27 j 09:41	0° ♄	
max. Earth dist.	808 Jan 24 j 06:41	2° ♄ 02'01	1.39600 AU	morning set	808 Dec 29 j 18:21	3° ♄ 44'04	
				max. Earth dist.	809 Jan 05 j 05:57	14° ♄ 16'02	1.41668 AU
superior conj	808 Jan 31 j 22:45	15° ♄ 44'47	-1°55'46				
minimum elong	808 Feb 01 j 01:56	15° ♄ 59'32	1°55'34	superior conj	809 Jan 12 j 20:38	27° ♄ 13'30	-2°03'12
	808 Feb 08 j 11:47	0° ♄		minimum elong	809 Jan 12 j 20:50	27° ♄ 14'25	2°03'13
evening rise	808 Feb 10 j 11:14	3° ♄ 47'53			809 Jan 14 j 10:32	0° ♄	
asc. node	808 Feb 16 j 11:31	15° ♄ 04'36		evening rise	809 Jan 23 j 15:46	16° ♄ 41'42	
evening max el	808 Feb 26 j 17:14	29° ♄ 55'42	18°32'53		809 Jan 31 j 01:00	0° ♄	
	808 Feb 26 j 19:00	0° ♄		asc. node	809 Feb 02 j 08:33	3° ♄ 51'13	
retrograde	808 Mar 05 j 09:32	3° ♄ 41'29		evening max el	809 Feb 09 j 02:03	12° ♄ 48'07	18°11'09
evening set	808 Mar 07 j 18:49	3° ♄ 20'53		retrograde	809 Feb 15 j 22:55	16° ♄ 16'04	
	808 Mar 13 j 19:58	30° ♄		evening set	809 Feb 18 j 13:27	15° ♄ 46'49	
inferior conj	808 Mar 15 j 07:11	28° ♄ 52'11	2°49'52	inferior conj	809 Feb 25 j 09:31	10° ♄ 57'18	3°32'20
minimum elong	808 Mar 15 j 11:14	28° ♄ 44'12	2°48'55	minimum elong	809 Feb 25 j 11:54	10° ♄ 51'52	3°32'03
min. Earth dist.	808 Mar 18 j 17:07	26° ♄ 12'46	0.58213 AU	min. Earth dist.	809 Feb 28 j 17:06	7° ♄ 57'20	0.60317 AU
morning rise	808 Mar 23 j 00:49	23° ♄ 29'06		morning rise	809 Mar 04 j 08:19	5° ♄ 12'32	
desc. node	808 Mar 26 j 13:41	22° ♄ 14'55		direct	809 Mar 10 j 23:55	3° ♄ 06'37	
direct	808 Mar 28 j 22:18	22° ♄ 00'38		desc. node	809 Mar 13 j 10:43	3° ♄ 22'54	
morning max el	808 Apr 12 j 07:13	29° ♄ 38'21	26°39'28	morning max el	809 Mar 25 j 06:24	10° ♄ 56'11	27°32'02
	808 Apr 12 j 16:02	0° ♄			809 Apr 09 j 03:06	0° ♄	
	808 May 03 j 15:13	0° ♄			809 Apr 25 j 17:37	0° ♄	
morning set	808 May 11 j 17:46	15° ♄ 57'54		morning set	809 Apr 26 j 01:16	0° ♄ 39'34	
asc. node	808 May 14 j 10:46	21° ♄ 44'08		asc. node	809 May 01 j 07:50	11° ♄ 53'43	
	808 May 18 j 05:36	0° ♄		max. Earth dist.	809 May 02 j 10:01	14° ♄ 16'39	1.32303 AU
superior conj	808 May 18 j 18:28	1° ♄ 10'44	0°44'19	superior conj	809 May 03 j 05:57	16° ♄ 05'54	0°20'14
minimum elong	808 May 18 j 16:40	1° ♄ 00'47	0°43'57	minimum elong	809 May 03 j 05:03	16° ♄ 00'56	0°20'02
max. Earth dist.	808 May 18 j 21:47	1° ♄ 28'58	1.32324 AU		809 May 09 j 15:19	0° ♄	
evening rise	808 May 25 j 16:49	16° ♄ 10'10		evening rise	809 May 10 j 03:06	1° ♄ 02'33	
	808 Jun 01 j 15:44	0° ♄			809 May 25 j 22:30	0° ♄	
	808 Jun 21 j 16:51	0° ♄		evening max el	809 Jun 06 j 11:57	14° ♄ 21'22	25°33'38
desc. node	808 Jun 22 j 12:57	0° ♄ 54'00		desc. node	809 Jun 09 j 09:57	16° ♄ 54'23	
evening max el	808 Jun 24 j 16:02	3° ♄ 02'12	26°41'37	retrograde	809 Jun 20 j 12:56	21° ♄ 31'30	
retrograde	808 Jul 08 j 15:22	10° ♄ 16'45		evening set	809 Jun 26 j 08:17	20° ♄ 12'01	
evening set	808 Jul 15 j 09:54	8° ♄ 18'48		min. Earth dist.	809 Jul 01 j 00:08	17° ♄ 30'21	0.58218 AU
min. Earth dist.	808 Jul 19 j 05:36	5° ♄ 41'18	0.60267 AU	inferior conj	809 Jul 04 j 05:21	15° ♄ 13'43	-4°50'23
inferior conj	808 Jul 22 j 12:49	2° ♄ 59'45	-4°38'58	minimum elong	809 Jul 04 j 04:51	15° ♄ 14'36	4°50'22
minimum elong	808 Jul 22 j 16:11	2° ♄ 52'51	4°38'35	morning rise	809 Jul 12 j 03:57	10° ♄ 54'57	
	808 Jul 26 j 12:26	30° ♄		direct	809 Jul 14 j 16:36	10° ♄ 34'57	
morning rise	808 Jul 30 j 00:24	28° ♄ 18'39		morning max el	809 Jul 23 j 02:14	14° ♄ 32'57	18°47'40
direct	808 Aug 01 j 11:24	27° ♄ 55'55		asc. node	809 Jul 28 j 07:03	20° ♄ 49'07	
	808 Aug 07 j 01:32	0° ♄			809 Aug 02 j 20:48	0° ♄	
morning max el	808 Aug 08 j 21:01	1° ♄ 32'33	18°10'31	morning set	809 Aug 08 j 13:20	10° ♄ 48'26	
asc. node	808 Aug 10 j 10:00	3° ♄ 09'46					
morning set	808 Aug 24 j 18:37	26° ♄ 45'19		superior conj	809 Aug 17 j 03:37	27° ♄ 30'04	1°43'07
	808 Aug 26 j 11:59	0° ♄		minimum elong	809 Aug 17 j 05:25	27° ♄ 38'34	1°43'01
					809 Aug 18 j 11:25	0° ♄	
superior conj	808 Sep 03 j 09:00	14° ♄ 33'38	1°29'57	max. Earth dist.	809 Aug 24 j 03:48	10° ♄ 22'29	1.39251 AU
minimum elong	808 Sep 03 j 12:48	14° ♄ 50'46	1°29'36	evening rise	809 Aug 28 j 03:25	17° ♄ 18'17	
max. Earth dist.	808 Sep 10 j 23:57	27° ♄ 52'14	1.41260 AU		809 Sep 04 j 21:01	0° ♄	
	808 Sep 12 j 06:20	0° ♄		desc. node	809 Sep 05 j 09:18	0° ♄ 48'27	
evening rise	808 Sep 16 j 02:56	6° ♄ 21'22			809 Sep 26 j 00:38	0° ♄	
desc. node	808 Sep 18 j 12:18	10° ♄ 11'52		evening max el	809 Oct 02 j 11:32	7° ♄ 12'50	24°14'58
	808 Oct 01 j 13:08	0° ♄		retrograde	809 Oct 13 j 15:28	13° ♄ 45'36	
evening max el	808 Oct 19 j 22:39	23° ♄ 38'35	22°54'57	evening set	809 Oct 18 j 23:53	11° ♄ 31'07	
retrograde	808 Oct 30 j 00:19	29° ♄ 37'22		min. Earth dist.	809 Oct 23 j 17:25	6° ♄ 03'46	0.67530 AU
evening set	808 Nov 03 j 18:47	27° ♄ 40'09		inferior conj	809 Oct 24 j 09:52	5° ♄ 08'21	0°03'05
asc. node	808 Nov 06 j 09:15	24° ♄ 57'55		minimum elong	809 Oct 24 j 09:47	5° ♄ 08'37	0°03'03
inferior conj	808 Nov 09 j 03:20	21° ♄ 18'40	0°56'14	transit middle	809 Oct 24 j 09:47	5° ♄ 08'37	0°03'03
minimum elong	808 Nov 09 j 02:03	21° ♄ 23'04	0°55'42	transit begin	809 Oct 24 j 07:06	5° ♄ 17'40	
min. Earth dist.	808 Nov 08 j 21:16	21° ♄ 39'34	0.67730 AU	transit end	809 Oct 24 j 12:28	4° ♄ 59'34	
morning rise	808 Nov 14 j 09:14	15° ♄ 08'39		asc. node	809 Oct 24 j 06:18	5° ♄ 20'21	
direct	808 Nov 18 j 18:40	13° ♄ 22'54			809 Oct 28 j 16:40	30° ♄	

morning rise	809 Oct 29 j 19:42	29° Ω 03'25		minimum elong	810 Oct 08 j 15:16	18° Ω 54'42	0°52'13
direct	809 Nov 02 j 15:51	27° Ω 39'12		asc. node	810 Oct 11 j 03:21	15° Ω 50'12	
	809 Nov 08 j 02:56	0° \mathbb{M}		morning rise	810 Oct 14 j 05:35	13° Ω 02'01	
morning max el	809 Nov 10 j 14:01	2° \mathbb{M} 13'39	20°26'12	direct	810 Oct 17 j 14:22	11° Ω 56'33	
	809 Nov 30 j 22:24	0° \mathbb{A}		morning max el	810 Oct 24 j 18:17	15° Ω 59'28	19°23'28
desc. node	809 Dec 02 j 08:35	2° \mathbb{A} 09'25			810 Nov 04 j 10:49	0° \mathbb{M}	
morning set	809 Dec 08 j 17:20	11° \mathbb{A} 55'12		morning set	810 Nov 17 j 17:21	20° \mathbb{M} 18'48	
max. Earth dist.	809 Dec 18 j 12:47	27° \mathbb{A} 24'11	1.43409 AU	desc. node	810 Nov 19 j 05:38	22° \mathbb{M} 39'42	
	809 Dec 20 j 03:22	0° \mathbb{B}			810 Nov 23 j 22:39	0° \mathbb{A}	
				max. Earth dist.	810 Dec 01 j 02:56	11° \mathbb{A} 16'36	1.44595 AU
superior conj	809 Dec 24 j 17:25	7° \mathbb{B} 31'06	-1°56'00				
minimum elong	809 Dec 24 j 12:39	7° \mathbb{B} 11'21	1°55'45	superior conj	810 Dec 04 j 11:58	16° \mathbb{A} 38'17	-1°30'22
evening rise	810 Jan 06 j 04:01	28° \mathbb{B} 47'45		minimum elong	810 Dec 04 j 03:31	16° \mathbb{A} 04'36	1°29'33
	810 Jan 06 j 20:31	0° \approx			810 Dec 12 j 18:34	0° \mathbb{B}	
asc. node	810 Jan 20 j 05:37	21° \approx 59'47		evening rise	810 Dec 18 j 19:46	9° \mathbb{B} 59'23	
evening max el	810 Jan 23 j 14:07	25° \approx 58'14	18°08'58		810 Dec 31 j 01:09	0° \approx	
retrograde	810 Jan 30 j 02:12	29° \approx 22'55		evening max el	811 Jan 07 j 02:33	9° \approx 18'52	18°25'32
evening set	810 Feb 01 j 21:37	28° \approx 43'45		asc. node	811 Jan 07 j 02:40	9° \approx 19'10	
inferior conj	810 Feb 08 j 05:01	23° \approx 33'36	3°47'14	retrograde	811 Jan 13 j 15:07	12° \approx 52'57	
minimum elong	810 Feb 08 j 05:16	23° \approx 32'59	3°47'14	evening set	811 Jan 16 j 15:34	12° \approx 02'59	
min. Earth dist.	810 Feb 11 j 01:03	20° \approx 37'58	0.62391 AU	inferior conj	811 Jan 22 j 13:41	6° \approx 33'33	3°41'48
morning rise	810 Feb 14 j 11:47	17° \approx 35'48		minimum elong	811 Jan 22 j 12:15	6° \approx 37'43	3°41'40
direct	810 Feb 21 j 11:05	15° \approx 00'45		min. Earth dist.	811 Jan 24 j 18:30	4° \approx 01'28	0.64208 AU
desc. node	810 Feb 28 j 07:46	17° \approx 09'13		morning rise	811 Jan 28 j 08:23	0° \approx 27'58	
morning max el	810 Mar 07 j 11:18	22° \approx 54'19	27°48'14		811 Jan 28 j 22:30	30° \mathbb{R} \mathbb{B}	
	810 Mar 13 j 18:45	0° \mathbb{H}		direct	811 Feb 04 j 05:47	27° \mathbb{B} 37'57	
	810 Apr 02 j 07:37	0° \mathbb{Y}			811 Feb 11 j 05:32	0° \approx	
morning set	810 Apr 10 j 03:38	15° \mathbb{Y} 02'43		desc. node	811 Feb 15 j 04:50	3° \approx 00'07	
max. Earth dist.	810 Apr 15 j 18:51	26° \mathbb{Y} 50'11	1.32668 AU	morning max el	811 Feb 17 j 19:58	5° \approx 28'06	27°28'16
	810 Apr 17 j 06:03	0° \mathbb{B}			811 Mar 08 j 12:16	0° \mathbb{H}	
				morning set	811 Mar 24 j 22:15	28° \mathbb{H} 58'54	
superior conj	810 Apr 17 j 15:34	0° \mathbb{B} 51'37	-0°05'53		811 Mar 25 j 10:37	0° \mathbb{Y}	
minimum elong	810 Apr 17 j 15:51	0° \mathbb{B} 53'07	0°05'50	max. Earth dist.	811 Mar 29 j 20:26	8° \mathbb{Y} 57'29	1.33448 AU
behind sun begin	810 Apr 17 j 11:00	0° \mathbb{B} 26'53					
behind sun end	810 Apr 17 j 20:41	1° \mathbb{B} 19'22		superior conj	811 Apr 01 j 21:26	15° \mathbb{Y} 21'34	-0°33'04
asc. node	810 Apr 18 j 04:53	2° \mathbb{B} 03'55		minimum elong	811 Apr 01 j 23:03	15° \mathbb{Y} 30'11	0°32'44
evening rise	810 Apr 24 j 14:53	15° \mathbb{B} 55'53		asc. node	811 Apr 05 j 01:57	22° \mathbb{Y} 10'37	
	810 May 01 j 15:18	0° \mathbb{I}			811 Apr 08 j 18:01	0° \mathbb{B}	
evening max el	810 May 19 j 02:53	25° \mathbb{I} 04'55	24°04'34	evening rise	811 Apr 09 j 02:18	0° \mathbb{B} 43'38	
	810 May 25 j 14:20	0° \mathbb{B}			811 Apr 25 j 19:10	0° \mathbb{I}	
desc. node	810 May 27 j 06:59	0° \mathbb{B} 49'15		evening max el	811 Apr 30 j 18:29	5° \mathbb{I} 37'28	22°28'51
retrograde	810 Jun 01 j 22:33	2° \mathbb{B} 01'45		retrograde	811 May 13 j 19:27	12° \mathbb{I} 04'15	
evening set	810 Jun 06 j 08:15	1° \mathbb{B} 18'46		desc. node	811 May 14 j 04:02	12° \mathbb{I} 03'58	
	810 Jun 09 j 12:24	30° \mathbb{R} \mathbb{I}		evening set	811 May 16 j 20:13	11° \mathbb{I} 44'02	
min. Earth dist.	810 Jun 12 j 13:55	28° \mathbb{I} 17'12	0.56436 AU	min. Earth dist.	811 May 25 j 01:57	8° \mathbb{I} 10'15	0.55266 AU
inferior conj	810 Jun 15 j 01:46	26° \mathbb{I} 44'34	-4°25'18	inferior conj	811 May 26 j 04:11	7° \mathbb{I} 33'05	-3°13'58
minimum elong	810 Jun 14 j 20:19	26° \mathbb{I} 53'04	4°24'28	minimum elong	811 May 25 j 20:41	7° \mathbb{I} 43'43	3°11'52
morning rise	810 Jun 23 j 11:06	22° \mathbb{I} 44'10		morning rise	811 Jun 03 j 23:12	3° \mathbb{I} 40'17	
direct	810 Jun 26 j 02:59	22° \mathbb{I} 25'35		direct	811 Jun 06 j 20:18	3° \mathbb{I} 21'20	
morning max el	810 Jul 05 j 21:58	26° \mathbb{I} 58'02	19°46'03	morning max el	811 Jun 18 j 06:29	8° \mathbb{I} 40'21	21°04'49
	810 Jul 08 j 18:38	0° \mathbb{B}		asc. node	811 Jul 02 j 01:10	28° \mathbb{I} 16'58	
asc. node	810 Jul 15 j 04:07	9° \mathbb{B} 15'28			811 Jul 02 j 23:06	0° \mathbb{B}	
morning set	810 Jul 23 j 15:48	25° \mathbb{B} 15'45		morning set	811 Jul 07 j 23:20	9° \mathbb{B} 59'04	
	810 Jul 25 j 23:56	0° \mathbb{Q}					
				superior conj	811 Jul 15 j 09:54	25° \mathbb{B} 28'12	1°42'14
superior conj	810 Jul 31 j 13:26	11° \mathbb{Q} 12'53	1°46'33	minimum elong	811 Jul 15 j 08:24	25° \mathbb{B} 20'32	1°42'09
minimum elong	810 Jul 31 j 13:19	11° \mathbb{Q} 12'21	1°46'33		811 Jul 17 j 15:04	0° \mathbb{Q}	
max. Earth dist.	810 Aug 06 j 07:58	22° \mathbb{Q} 22'30	1.37265 AU	max. Earth dist.	811 Jul 19 j 17:42	4° \mathbb{Q} 13'43	1.35511 AU
evening rise	810 Aug 10 j 03:37	29° \mathbb{Q} 23'16		evening rise	811 Jul 23 j 23:07	12° \mathbb{Q} 24'10	
	810 Aug 10 j 11:48	0° \mathbb{M}			811 Aug 02 j 22:03	0° \mathbb{M}	
desc. node	810 Aug 23 j 06:19	21° \mathbb{M} 13'46		desc. node	811 Aug 10 j 03:21	11° \mathbb{M} 21'12	
	810 Aug 29 j 03:48	0° \mathbb{B}			811 Aug 24 j 05:16	0° \mathbb{B}	
evening max el	810 Sep 14 j 23:24	20° \mathbb{B} 51'21	25°29'29	evening max el	811 Aug 28 j 11:22	4° \mathbb{B} 28'25	26°30'59
retrograde	810 Sep 27 j 02:09	27° \mathbb{B} 49'00		retrograde	811 Sep 10 j 07:46	11° \mathbb{B} 41'04	
evening set	810 Oct 03 j 01:07	25° \mathbb{B} 18'51		evening set	811 Sep 16 j 20:31	8° \mathbb{B} 59'35	
min. Earth dist.	810 Oct 07 j 10:41	20° \mathbb{B} 26'46	0.67009 AU	min. Earth dist.	811 Sep 20 j 22:34	4° \mathbb{B} 44'24	0.66143 AU
inferior conj	810 Oct 08 j 13:55	18° \mathbb{B} 59'02	-0°52'48	inferior conj	811 Sep 22 j 13:33	2° \mathbb{B} 46'44	-1°49'50

minimum elong	811 Sep 22 j 16:24	2°♊38'07	1°48'42	minimum elong	812 Sep 05 j 10:45	16°♏15'27	2°44'31
	811 Sep 24 j 23:11	30°♏♏		morning rise	812 Sep 11 j 14:44	10°♏55'16	
asc. node	811 Sep 28 j 00:23	27°♏19'20		asc. node	812 Sep 13 j 21:26	10°♏17'38	
morning rise	811 Sep 28 j 12:45	27°♏00'44		direct	812 Sep 14 j 07:29	10°♏16'42	
direct	811 Oct 01 j 12:20	26°♏10'34		morning max el	812 Sep 20 j 19:47	13°♏46'13	18°05'48
morning max el	811 Oct 08 j 05:01	29°♏52'07	18°36'18		812 Oct 02 j 06:01	0°♊	
	811 Oct 08 j 08:08	0°♊		morning set	812 Oct 08 j 19:39	10°♊55'09	
morning set	811 Oct 28 j 16:04	29°♊54'21			812 Oct 20 j 10:44	0°♌	
	811 Oct 28 j 17:28	0°♌					
desc. node	811 Nov 06 j 02:40	13°♌19'08		superior conj	812 Oct 22 j 20:00	3°♌49'23	0°01'02
				minimum elong	812 Oct 22 j 20:08	3°♌49'54	0°01'01
superior conj	811 Nov 13 j 13:51	25°♌04'30	-0°48'03	behind sun begin	812 Oct 22 j 09:26	3°♌07'12	
minimum elong	811 Nov 13 j 07:43	24°♌40'22	0°47'17	behind sun end	812 Oct 23 j 06:49	4°♌32'33	
max. Earth dist.	811 Nov 13 j 21:15	25°♌33'33	1.45078 AU	desc. node	812 Oct 22 j 23:41	4°♌04'07	
	811 Nov 16 j 17:04	0°♌		max. Earth dist.	812 Oct 26 j 16:04	9°♌54'40	1.44817 AU
evening rise	811 Nov 29 j 12:06	20°♌13'06		evening rise	812 Nov 08 j 06:48	29°♌35'44	
	811 Dec 05 j 15:32	0°♌			812 Nov 08 j 13:04	0°♌	
greatest brilliancy	811 Dec 07 j 23:23	3°♌41'12	-0.8m	greatest brilliancy	812 Nov 21 j 15:46	20°♌02'44	-0.7m
evening max el	811 Dec 21 j 12:48	22°♌44'52	18°59'53		812 Nov 28 j 14:57	0°♌	
asc. node	811 Dec 24 j 23:41	25°♌35'53		evening max el	812 Dec 03 j 18:54	6°♌12'59	19°50'27
retrograde	811 Dec 28 j 09:48	26°♌39'05		asc. node	812 Dec 10 j 20:43	10°♌34'53	
evening set	811 Dec 31 j 16:15	25°♌37'15		retrograde	812 Dec 11 j 07:10	10°♌35'57	
inferior conj	812 Jan 06 j 07:54	19°♌50'55	3°21'36	evening set	812 Dec 14 j 21:10	9°♌20'48	
minimum elong	812 Jan 06 j 05:29	19°♌58'29	3°21'08	inferior conj	812 Dec 20 j 08:38	3°♌20'25	2°50'25
min. Earth dist.	812 Jan 07 j 21:25	17°♌53'24	0.65654 AU	minimum elong	812 Dec 20 j 05:54	3°♌29'28	2°49'40
morning rise	812 Jan 11 j 18:26	13°♌40'32		min. Earth dist.	812 Dec 21 j 08:13	2°♌02'08	0.66711 AU
direct	812 Jan 18 j 07:01	10°♌49'54			812 Dec 22 j 22:23	30°♏♌	
morning max el	812 Jan 31 j 05:50	18°♌26'41	26°37'26	morning rise	812 Dec 25 j 14:25	27°♌07'30	
desc. node	812 Feb 02 j 01:54	20°♌21'39		direct	812 Dec 31 j 14:09	24°♌27'42	
	812 Feb 10 j 00:35	0°♌			813 Jan 10 j 22:37	0°♌	
	812 Feb 29 j 11:32	0°♌		morning max el	813 Jan 12 j 14:51	1°♌37'22	25°24'06
morning set	812 Mar 07 j 05:38	12°♌17'35		desc. node	813 Jan 18 j 22:56	8°♌47'07	
max. Earth dist.	812 Mar 11 j 11:24	20°♌31'36	1.34672 AU		813 Feb 03 j 02:17	0°♌	
				morning set	813 Feb 17 j 20:59	24°♌44'00	
superior conj	812 Mar 15 j 21:22	29°♌29'02	-1°00'11		813 Feb 20 j 17:46	0°♌	
minimum elong	812 Mar 16 j 00:18	29°♌44'09	0°59'39	max. Earth dist.	813 Feb 21 j 14:24	1°♌36'43	1.36344 AU
	812 Mar 16 j 03:22	0°♏					
asc. node	812 Mar 21 j 23:00	12°♏09'39		superior conj	813 Feb 27 j 12:31	13°♌05'09	-1°25'32
evening rise	812 Mar 23 j 11:27	15°♏19'19		minimum elong	813 Feb 27 j 16:23	13°♌24'24	1°24'59
	812 Mar 30 j 23:34	0°♏		evening rise	813 Mar 07 j 16:10	29°♌35'17	
evening max el	812 Apr 11 j 17:48	16°♏29'25	21°00'28		813 Mar 07 j 21:04	0°♏	
retrograde	812 Apr 23 j 09:06	22°♏08'38		asc. node	813 Mar 08 j 20:02	1°♏55'38	
evening set	812 Apr 25 j 14:26	21°♏57'01		evening max el	813 Mar 25 j 04:27	27°♏57'24	19°47'52
desc. node	812 Apr 30 j 01:04	20°♏32'11			813 Mar 27 j 14:14	0°♏	
inferior conj	812 May 04 j 22:17	17°♏58'32	-1°24'17	retrograde	813 Apr 04 j 02:22	2°♏43'30	
minimum elong	812 May 04 j 18:19	18°♏04'11	1°22'51	evening set	813 Apr 06 j 04:05	2°♏31'56	
min. Earth dist.	812 May 05 j 14:39	17°♏35'22	0.54971 AU		813 Apr 12 j 10:42	30°♏♏	
morning rise	812 May 13 j 22:05	13°♏54'33		inferior conj	813 Apr 14 j 22:23	28°♏30'18	0°34'03
direct	812 May 17 j 06:08	13°♏30'33		minimum elong	813 Apr 14 j 23:52	28°♏28'00	0°33'31
morning max el	812 May 30 j 04:44	19°♏41'57	22°39'36	desc. node	813 Apr 16 j 22:06	27°♏16'26	
	812 Jun 07 j 17:52	0°♏		min. Earth dist.	813 Apr 17 j 04:50	27°♏06'12	0.55636 AU
asc. node	812 Jun 17 j 22:14	17°♏44'57		morning rise	813 Apr 23 j 17:14	23°♏57'36	
morning set	812 Jun 21 j 09:54	24°♏52'30		direct	813 Apr 27 j 22:18	23°♏18'13	
	812 Jun 23 j 20:06	0°♏			813 May 11 j 13:55	0°♏	
superior conj	812 Jun 28 j 13:38	10°♏05'57	1°31'46	morning max el	813 May 11 j 20:24	0°♏15'15	24°21'04
minimum elong	812 Jun 28 j 11:23	9°♏53'59	1°31'32		813 Jun 01 j 01:41	0°♏	
max. Earth dist.	812 Jul 01 j 12:21	16°♏17'33	1.34117 AU	asc. node	813 Jun 04 j 19:17	7°♏31'32	
evening rise	812 Jul 06 j 09:11	26°♏08'28		morning set	813 Jun 05 j 21:44	9°♏49'55	
	812 Jul 08 j 08:59	0°♏					
	812 Jul 26 j 06:52	0°♏		superior conj	813 Jun 12 j 22:01	24°♏57'11	1°16'22
desc. node	812 Jul 27 j 00:22	1°♏02'37		minimum elong	813 Jun 12 j 19:34	24°♏43'52	1°16'00
evening max el	812 Aug 09 j 23:13	17°♏55'17	27°11'55	max. Earth dist.	813 Jun 14 j 15:47	28°♏42'32	1.33117 AU
retrograde	812 Aug 23 j 08:01	25°♏14'12			813 Jun 15 j 06:14	0°♏	
evening set	812 Aug 30 j 07:35	22°♏29'09		evening rise	813 Jun 20 j 05:46	10°♏24'01	
min. Earth dist.	812 Sep 03 j 02:51	18°♏50'32	0.64912 AU		813 Jun 30 j 16:23	0°♏	
inferior conj	812 Sep 05 j 06:33	16°♏27'08	-2°45'58	desc. node	813 Jul 13 j 21:23	20°♏07'05	
					813 Jul 22 j 08:43	0°♏	






























































































































evening max el	813 Jul 23 j 09:34	1° \cap 00'33	27°25'39	retrograde	814 Jul 19 j 13:37	20° Ω 47'08	
retrograde	813 Aug 06 j 02:19	8° \cap 19'27		evening set	814 Jul 26 j 15:06	18° Ω 31'29	
evening set	813 Aug 13 j 07:09	5° \cap 42'20		min. Earth dist.	814 Jul 30 j 06:20	15° Ω 47'38	0.61437 AU
min. Earth dist.	813 Aug 16 j 21:47	2° \cap 35'59	0.63324 AU	inferior conj	814 Aug 02 j 09:37	13° Ω 01'24	-4°21'14
inferior conj	813 Aug 19 j 14:18	29° Ω 54'42	-3°38'05	minimum elong	814 Aug 02 j 14:08	12° Ω 51'23	4°20'24
minimum elong	813 Aug 19 j 19:17	29° Ω 42'12	3°36'43	morning rise	814 Aug 09 j 14:47	8° Ω 07'03	
	813 Aug 19 j 12:11	30° κ Ω		direct	814 Aug 12 j 01:37	7° Ω 42'06	
morning rise	813 Aug 26 j 08:37	24° Ω 40'05		asc. node	814 Aug 18 j 15:32	10° Ω 47'37	
direct	813 Aug 28 j 21:05	24° Ω 09'44		morning max el	814 Aug 19 j 01:54	11° Ω 12'10	17°58'24
asc. node	813 Aug 31 j 18:29	24° Ω 50'28			814 Aug 31 j 13:26	0° \cap	
morning max el	813 Sep 04 j 11:44	27° Ω 35'24	17°52'50	morning set	814 Sep 03 j 23:40	6° \cap 15'08	
	813 Sep 06 j 15:33	0° \cap					
morning set	813 Sep 21 j 00:16	23° \cap 08'11		superior conj	814 Sep 14 j 08:03	24° \cap 54'12	1°17'08
	813 Sep 24 j 22:46	0° Ω		minimum elong	814 Sep 14 j 12:40	25° \cap 14'24	1°16'38
					814 Sep 17 j 06:48	0° Ω	
superior conj	813 Oct 03 j 00:24	13° Ω 41'44	0°44'54	max. Earth dist.	814 Sep 21 j 20:17	7° Ω 40'11	1.42331 AU
minimum elong	813 Oct 03 j 04:38	13° Ω 59'19	0°44'20	desc. node	814 Sep 26 j 17:42	15° Ω 37'24	
max. Earth dist.	813 Oct 09 j 08:20	24° Ω 01'50	1.43859 AU	evening rise	814 Sep 28 j 04:27	17° Ω 55'39	
desc. node	813 Oct 09 j 20:42	24° Ω 51'24			814 Oct 05 j 23:47	0° \cap	
	813 Oct 13 j 02:21	0° \cap			814 Oct 27 j 16:05	0° κ	
evening rise	813 Oct 18 j 14:27	8° \cap 35'17		evening max el	814 Oct 30 j 14:49	3° κ 12'52	22°09'24
	813 Nov 01 j 19:46	0° κ		retrograde	814 Nov 09 j 00:56	8° κ 48'59	
evening max el	813 Nov 16 j 19:39	19° κ 42'31	20°54'49	evening set	814 Nov 13 j 12:02	7° κ 01'55	
retrograde	813 Nov 25 j 04:50	24° κ 40'29		asc. node	814 Nov 14 j 14:47	6° κ 01'11	
asc. node	813 Nov 27 j 17:44	24° κ 04'12		inferior conj	814 Nov 18 j 20:24	0° κ 43'18	1°24'59
evening set	813 Nov 29 j 04:22	23° κ 10'14		minimum elong	814 Nov 18 j 18:35	0° κ 49'38	1°24'17
inferior conj	813 Dec 04 j 13:29	16° κ 59'02	2°10'56	min. Earth dist.	814 Nov 18 j 20:27	0° κ 43'08	0.67709 AU
minimum elong	813 Dec 04 j 10:59	17° κ 07'36	2°10'05		814 Nov 19 j 08:56	30° κ \cap	
min. Earth dist.	813 Dec 05 j 00:43	16° κ 20'31	0.67389 AU	morning rise	814 Nov 24 j 00:58	24° \cap 31'33	
morning rise	813 Dec 09 j 17:25	10° κ 45'38		direct	814 Nov 28 j 18:52	22° \cap 32'33	
direct	813 Dec 15 j 02:24	8° κ 24'20		morning max el	814 Dec 08 j 09:43	28° \cap 13'58	22°30'36
morning max el	813 Dec 25 j 23:11	14° κ 53'15	23°58'30		814 Dec 10 j 01:58	0° κ	
desc. node	814 Jan 05 j 19:57	27° κ 58'18		desc. node	814 Dec 23 j 16:59	17° κ 41'37	
	814 Jan 07 j 07:45	0° Ξ			815 Jan 01 j 00:54	0° Ξ	
	814 Jan 27 j 00:42	0° \approx		morning set	815 Jan 11 j 03:58	15° Ξ 58'04	
morning set	814 Jan 30 j 14:24	6° \approx 02'24		max. Earth dist.	815 Jan 16 j 06:03	24° Ξ 26'12	1.40510 AU
max. Earth dist.	814 Feb 03 j 09:47	12° \approx 42'12	1.38369 AU		815 Jan 19 j 11:44	0° \approx	
superior conj	814 Feb 10 j 15:25	26° \approx 01'24	-1°46'43	superior conj	815 Jan 24 j 01:25	8° \approx 05'51	-2°00'24
minimum elong	814 Feb 10 j 19:18	26° \approx 19'54	1°46'22	minimum elong	815 Jan 24 j 03:39	8° \approx 15'52	2°00'20
	814 Feb 12 j 17:16	0° H		evening rise	815 Feb 03 j 01:53	26° \approx 41'58	
evening rise	814 Feb 19 j 14:01	13° H 25'23			815 Feb 04 j 19:58	0° H	
asc. node	814 Feb 23 j 17:04	21° H 23'41		asc. node	815 Feb 10 j 14:06	10° H 27'34	
	814 Feb 28 j 12:56	0° Υ		evening max el	815 Feb 19 j 07:30	22° H 41'52	18°21'13
evening max el	814 Mar 08 j 01:55	10° Υ 03'46	18°54'30	retrograde	815 Feb 26 j 13:52	26° H 17'51	
retrograde	814 Mar 16 j 10:30	14° Υ 06'31		evening set	815 Mar 01 j 01:39	25° H 53'35	
evening set	814 Mar 18 j 16:41	13° Υ 50'01		inferior conj	815 Mar 08 j 06:36	21° H 15'57	3°11'44
inferior conj	814 Mar 26 j 15:52	9° Υ 33'00	2°10'09	minimum elong	815 Mar 08 j 10:06	21° H 08'36	3°11'05
minimum elong	814 Mar 26 j 20:00	9° Υ 25'36	2°08'57	min. Earth dist.	815 Mar 11 j 17:02	18° H 24'54	0.59098 AU
min. Earth dist.	814 Mar 29 j 21:01	7° Υ 16'01	0.57120 AU	morning rise	815 Mar 15 j 16:06	15° H 42'47	
morning rise	814 Apr 03 j 20:15	4° Υ 27'00		direct	815 Mar 21 j 22:38	13° H 58'07	
desc. node	814 Apr 03 j 19:08	4° Υ 28'10		desc. node	815 Mar 21 j 16:10	13° H 58'19	
direct	814 Apr 09 j 03:57	3° Υ 19'01		morning max el	815 Apr 05 j 06:43	21° H 41'03	27°06'07
morning max el	814 Apr 23 j 11:17	10° Υ 45'39	25°54'57		815 Apr 12 j 13:22	0° Υ	
	814 May 08 j 04:35	0° B			815 May 01 j 00:47	0° B	
morning set	814 May 21 j 09:13	24° B 45'47		morning set	815 May 05 j 18:44	9° B 34'50	
asc. node	814 May 22 j 16:20	27° B 30'52		asc. node	815 May 09 j 13:23	17° B 38'15	
	814 May 23 j 20:05	0° Π					
				superior conj	815 May 12 j 20:47	24° B 52'45	0°34'24
superior conj	814 May 28 j 08:59	9° Π 54'46	0°56'59	minimum elong	815 May 12 j 19:19	24° B 44'41	0°34'05
minimum elong	814 May 28 j 06:49	9° Π 42'53	0°56'34	max. Earth dist.	815 May 12 j 14:11	24° B 16'29	1.32270 AU
max. Earth dist.	814 May 29 j 01:33	11° Π 25'29	1.32506 AU		815 May 15 j 04:43	0° Π	
evening rise	814 Jun 04 j 09:37	25° Π 00'34		evening rise	815 May 19 j 18:12	9° Π 49'53	
	814 Jun 06 j 20:17	0° B			815 May 30 j 04:20	0° B	
	814 Jun 24 j 08:19	0° Ω		evening max el	815 Jun 17 j 16:14	25° B 17'58	26°16'08
desc. node	814 Jun 30 j 18:24	8° Ω 18'48		desc. node	815 Jun 17 j 15:26	25° B 16'02	
evening max el	814 Jul 05 j 16:05	13° Ω 31'27	27°07'21		815 Jun 23 j 16:12	0° Ω	

retrograde	815 Jul 01 j 16:22	2°♊30'13			816 May 23 j 17:02	0°♊	
evening set	815 Jul 08 j 02:49	0°♊48'07		evening max el	816 May 29 j 09:22	6°♊18'57	24°57'29
	815 Jul 09 j 12:58	30°♊		desc. node	816 Jun 03 j 12:29	10°♊27'41	
min. Earth dist.	815 Jul 12 j 05:06	28°♊11'12	0.59386 AU	retrograde	816 Jun 12 j 08:58	13°♊25'13	
inferior conj	815 Jul 15 j 12:57	25°♊37'59	-4°47'25	evening set	816 Jun 17 j 15:08	12°♊22'00	
minimum elong	815 Jul 15 j 14:57	25°♊34'07	4°47'18	min. Earth dist.	816 Jun 22 j 20:49	9°♊33'46	0.57407 AU
morning rise	815 Jul 23 j 05:12	21°♊06'16		inferior conj	816 Jun 25 j 20:57	7°♊33'42	-4°44'58
direct	815 Jul 25 j 16:51	20°♊44'44		minimum elong	816 Jun 25 j 18:18	7°♊38'08	4°44'48
morning max el	815 Aug 02 j 11:17	24°♊28'47	18°23'47	morning rise	816 Jul 04 j 00:13	3°♊23'59	
asc. node	815 Aug 05 j 12:36	27°♊54'20		direct	816 Jul 06 j 14:13	3°♊04'41	
	815 Aug 07 j 01:44	0°♊		morning max el	816 Jul 15 j 12:47	7°♊15'11	19°10'01
morning set	815 Aug 18 j 12:36	20°♊01'43		asc. node	816 Jul 22 j 09:39	15°♊54'58	
	815 Aug 23 j 17:54	0°♊			816 Jul 30 j 06:53	0°♊	
				morning set	816 Aug 01 j 10:58	4°♊16'01	
superior conj	815 Aug 27 j 15:38	7°♊18'04	1°36'50				
minimum elong	815 Aug 27 j 18:38	7°♊31'50	1°36'38	superior conj	816 Aug 09 j 17:22	20°♊36'13	1°45'38
max. Earth dist.	815 Sep 04 j 03:10	20°♊38'30	1.40426 AU	minimum elong	816 Aug 09 j 18:18	20°♊40'46	1°45'36
evening rise	815 Sep 08 j 14:50	28°♊13'17			816 Aug 14 j 16:33	0°♊	
	815 Sep 09 j 16:44	0°♊		max. Earth dist.	816 Aug 16 j 06:28	2°♊53'36	1.38386 AU
desc. node	815 Sep 13 j 14:44	6°♊18'58		evening rise	816 Aug 20 j 01:43	9°♊39'36	
	815 Sep 29 j 13:45	0°♊		desc. node	816 Aug 30 j 11:47	26°♊51'33	
evening max el	815 Oct 13 j 05:25	16°♊45'30	23°29'05		816 Sep 01 j 12:33	0°♊	
retrograde	815 Oct 23 j 18:10	22°♊58'53			816 Sep 24 j 08:53	0°♊	
evening set	815 Oct 28 j 18:34	20°♊54'05		evening max el	816 Sep 24 j 17:28	0°♊21'21	24°47'40
asc. node	815 Nov 01 j 11:50	16°♊46'11		retrograde	816 Oct 06 j 07:36	7°♊06'17	
min. Earth dist.	815 Nov 02 j 17:05	15°♊07'41	0.67696 AU	evening set	816 Oct 11 j 22:18	4°♊44'29	
inferior conj	815 Nov 03 j 03:35	14°♊31'43	0°34'06		816 Oct 16 j 03:45	30°♊	
minimum elong	815 Nov 03 j 02:47	14°♊34'27	0°33'46	min. Earth dist.	816 Oct 16 j 12:15	29°♊32'07	0.67350 AU
morning rise	815 Nov 08 j 10:57	8°♊23'48		inferior conj	816 Oct 17 j 09:18	28°♊22'20	-0°20'21
direct	815 Nov 12 j 14:35	6°♊47'30		minimum elong	816 Oct 17 j 09:49	28°♊20'40	0°20'08
morning max el	815 Nov 21 j 02:04	11°♊43'54	21°08'29	asc. node	816 Oct 18 j 08:53	27°♊04'54	
	815 Dec 05 j 06:25	0°♊		morning rise	816 Oct 22 j 21:26	22°♊20'39	
desc. node	815 Dec 10 j 14:00	7°♊48'05		direct	816 Oct 26 j 12:24	21°♊05'01	
morning set	815 Dec 21 j 13:38	24°♊36'15		morning max el	816 Nov 03 j 02:05	25°♊24'50	19°57'44
	815 Dec 24 j 23:28	0°♊			816 Nov 07 j 02:11	0°♊	
max. Earth dist.	815 Dec 29 j 09:00	7°♊06'10	1.42472 AU	desc. node	816 Nov 26 j 11:03	28°♊11'21	
					816 Nov 27 j 15:19	0°♊	
superior conj	816 Jan 05 j 13:08	19°♊05'16	-2°02'13	morning set	816 Nov 29 j 09:56	2°♊44'20	
minimum elong	816 Jan 05 j 11:22	18°♊57'45	2°02'11	max. Earth dist.	816 Dec 10 j 19:17	20°♊35'49	1.43990 AU
	816 Jan 11 j 19:35	0°♊					
evening rise	816 Jan 17 j 00:00	9°♊16'40		superior conj	816 Dec 15 j 22:27	28°♊51'51	-1°47'27
asc. node	816 Jan 28 j 11:09	28°♊59'12		minimum elong	816 Dec 15 j 15:39	28°♊24'08	1°46'57
	816 Jan 29 j 03:35	0°♊			816 Dec 16 j 15:11	0°♊	
evening max el	816 Feb 02 j 18:01	5°♊42'31	18°07'50	evening rise	816 Dec 29 j 04:08	21°♊01'15	
retrograde	816 Feb 09 j 09:56	9°♊07'38			817 Jan 03 j 09:58	0°♊	
evening set	816 Feb 12 j 02:35	8°♊34'14		asc. node	817 Jan 14 j 08:12	16°♊48'49	
inferior conj	816 Feb 18 j 16:46	3°♊35'28	3°41'36	evening max el	817 Jan 16 j 06:32	18°♊58'04	18°13'44
minimum elong	816 Feb 18 j 18:13	3°♊31'57	3°41'29	retrograde	817 Jan 22 j 17:59	22°♊25'46	
min. Earth dist.	816 Feb 21 j 20:00	0°♊34'48	0.61217 AU	evening set	817 Jan 25 j 15:20	21°♊42'15	
	816 Feb 22 j 11:23	30°♊		inferior conj	817 Jan 31 j 18:25	16°♊23'39	3°47'03
morning rise	816 Feb 25 j 08:16	27°♊44'13		minimum elong	817 Jan 31 j 17:52	16°♊25'10	3°47'02
direct	816 Mar 03 j 04:15	25°♊24'48		min. Earth dist.	817 Feb 03 j 08:10	13°♊35'57	0.63199 AU
desc. node	816 Mar 07 j 13:13	26°♊16'56		morning rise	817 Feb 06 j 19:30	10°♊21'43	
	816 Mar 13 j 16:58	0°♊		direct	817 Feb 13 j 18:50	7°♊38'26	
morning max el	816 Mar 17 j 08:38	3°♊16'34	27°43'41	desc. node	817 Feb 22 j 10:15	11°♊01'07	
	816 Apr 06 j 01:26	0°♊		morning max el	817 Feb 27 j 15:44	15°♊32'26	27°43'58
morning set	816 Apr 19 j 00:19	24°♊09'40			817 Mar 11 j 12:23	0°♊	
	816 Apr 21 j 19:24	0°♊			817 Mar 29 j 16:29	0°♊	
max. Earth dist.	816 Apr 25 j 01:38	7°♊00'47	1.32409 AU	morning set	817 Apr 02 j 23:46	8°♊23'00	
asc. node	816 Apr 25 j 10:25	7°♊48'36		max. Earth dist.	817 Apr 08 j 07:54	19°♊24'54	1.32945 AU
superior conj	816 Apr 26 j 07:39	9°♊44'27	0°09'22	superior conj	817 Apr 10 j 15:54	24°♊24'22	-0°17'21
minimum elong	816 Apr 26 j 07:13	9°♊42'06	0°09'16	minimum elong	817 Apr 10 j 16:45	24°♊28'52	0°17'10
behind sun begin	816 Apr 26 j 03:04	9°♊19'25		asc. node	817 Apr 12 j 07:29	27°♊58'02	
behind sun end	816 Apr 26 j 11:22	10°♊04'47			817 Apr 13 j 06:02	0°♊	
evening rise	816 May 03 j 05:21	24°♊43'29		evening rise	817 Apr 17 j 17:11	9°♊35'11	
	816 May 05 j 18:06	0°♊			817 Apr 28 j 07:49	0°♊	

evening max el	817 May 10 j 23:28	16° Π 53'19	23°23'41		818 Apr 25 j 14:46	0° Π
desc. node	817 May 21 j 09:31	23° Π 17'47		retrograde	818 May 05 j 06:13	3° Π 39'12
retrograde	817 May 24 j 13:31	23° Π 40'36		evening set	818 May 07 j 20:19	3° Π 24'14
evening set	817 May 28 j 08:03	23° Π 09'20		desc. node	818 May 08 j 06:31	3° Π 19'02
min. Earth dist.	817 Jun 04 j 09:36	19° Π 55'18	0.55842 AU		818 May 16 j 02:13	30° \mathbb{R} 8
inferior conj	817 Jun 06 j 09:00	18° Π 45'06	-4°00'48	inferior conj	818 May 17 j 06:18	29° \mathbb{B} 20'47 -2°30'45
minimum elong	817 Jun 06 j 02:03	18° Π 55'26	3°59'20	minimum elong	818 May 16 j 23:41	29° \mathbb{B} 30'02 2°28'37
morning rise	817 Jun 14 j 22:45	14° Π 49'53		min. Earth dist.	818 May 16 j 22:05	29° \mathbb{B} 32'18 0.55022 AU
direct	817 Jun 17 j 16:12	14° Π 31'39		morning rise	818 May 26 j 04:10	25° \mathbb{B} 25'16
morning max el	817 Jun 28 j 03:55	19° Π 22'48	20°17'17	direct	818 May 29 j 04:52	25° \mathbb{B} 04'58
	817 Jul 06 j 12:40	0° \mathfrak{C}			818 Jun 09 j 10:49	0° Π
asc. node	817 Jul 09 j 06:42	4° \mathfrak{C} 37'11		morning max el	818 Jun 10 j 07:44	0° Π 46'59 21°43'35
morning set	817 Jul 16 j 15:47	18° \mathfrak{C} 50'15		asc. node	818 Jun 26 j 03:46	23° Π 51'02
	817 Jul 22 j 02:16	0° Ω			818 Jun 29 j 06:19	0° \mathfrak{C}
				morning set	818 Jul 01 j 00:49	3° \mathfrak{C} 38'27
superior conj	817 Jul 24 j 08:09	4° Ω 34'01	1°45'34			
minimum elong	817 Jul 24 j 07:23	4° Ω 30'08	1°45'33	superior conj	818 Jul 08 j 08:02	18° \mathfrak{C} 59'57 1°38'28
max. Earth dist.	817 Jul 29 j 11:50	14° Ω 44'13	1.36475 AU	minimum elong	818 Jul 08 j 06:09	18° \mathfrak{C} 50'06 1°38'19
evening rise	817 Aug 02 j 10:39	22° Ω 09'33		max. Earth dist.	818 Jul 12 j 01:03	26° \mathfrak{C} 38'30 1.34869 AU
	817 Aug 06 j 20:00	0° \mathfrak{M}			818 Jul 13 j 17:13	0° Ω
desc. node	817 Aug 17 j 08:50	17° \mathfrak{M} 09'57		evening rise	818 Jul 16 j 12:55	5° Ω 30'51
	817 Aug 26 j 07:44	0° \mathfrak{L}			818 Jul 30 j 13:28	0° \mathfrak{M}
evening max el	817 Sep 07 j 05:08	13° \mathfrak{L} 59'24	25°57'46	desc. node	818 Aug 04 j 05:51	7° \mathfrak{M} 07'33
retrograde	817 Sep 19 j 16:25	21° \mathfrak{L} 05'33		evening max el	818 Aug 20 j 17:18	27° \mathfrak{M} 34'13 26°51'30
evening set	817 Sep 25 j 21:20	18° \mathfrak{L} 29'49			818 Aug 23 j 10:17	0° \mathfrak{L}
min. Earth dist.	817 Sep 30 j 03:34	13° \mathfrak{L} 53'13	0.66675 AU	retrograde	818 Sep 02 j 19:50	4° \mathfrak{L} 50'30
inferior conj	817 Oct 01 j 11:43	12° \mathfrak{L} 12'10	-1°16'58	evening set	818 Sep 09 j 13:31	2° \mathfrak{L} 06'40
minimum elong	817 Oct 01 j 13:42	12° \mathfrak{L} 05'55	1°16'09		818 Sep 11 j 19:36	30° \mathbb{R} 11
asc. node	817 Oct 05 j 05:55	7° \mathfrak{L} 54'17		min. Earth dist.	818 Sep 13 j 12:38	28° \mathfrak{M} 06'56 0.65656 AU
morning rise	817 Oct 07 j 06:23	6° \mathfrak{L} 19'25		inferior conj	818 Sep 15 j 08:50	25° \mathfrak{M} 57'51 -2°13'56
direct	817 Oct 10 j 10:52	5° \mathfrak{L} 21'03		minimum elong	818 Sep 15 j 12:17	25° \mathfrak{M} 47'44 2°12'37
morning max el	817 Oct 17 j 09:21	9° \mathfrak{L} 14'10	19°01'25	morning rise	818 Sep 21 j 11:39	20° \mathfrak{M} 17'10
	817 Nov 01 j 08:12	0° \mathfrak{M}		asc. node	818 Sep 22 j 02:57	19° \mathfrak{M} 59'26
morning set	817 Nov 08 j 17:44	11° \mathfrak{M} 33'36		direct	818 Sep 24 j 08:01	19° \mathfrak{M} 32'20
desc. node	817 Nov 13 j 08:05	18° \mathfrak{M} 45'59		morning max el	818 Sep 30 j 22:03	23° \mathfrak{M} 07'58 18°21'14
	817 Nov 20 j 12:01	0° \mathfrak{X}			818 Oct 06 j 10:10	0° \mathfrak{L}
max. Earth dist.	817 Nov 23 j 11:05	4° \mathfrak{X} 39'17	1.44885 AU	morning set	818 Oct 20 j 04:52	21° \mathfrak{L} 46'28
					818 Oct 25 j 06:54	0° \mathfrak{M}
superior conj	817 Nov 25 j 08:00	7° \mathfrak{X} 36'23	-1°14'03	desc. node	818 Oct 31 j 05:08	9° \mathfrak{M} 28'23
minimum elong	817 Nov 24 j 23:42	7° \mathfrak{X} 03'37	1°13'07			
	817 Dec 09 j 07:31	0° \mathfrak{Z}		superior conj	818 Nov 04 j 08:59	16° \mathfrak{M} 03'18 -0°27'19
evening rise	817 Dec 10 j 10:06	1° \mathfrak{Z} 48'16		minimum elong	818 Nov 04 j 05:24	15° \mathfrak{M} 49'13 0°26'50
	817 Dec 28 j 16:01	0° \approx		max. Earth dist.	818 Nov 06 j 05:53	19° \mathfrak{M} 00'02 1.45059 AU
evening max el	817 Dec 30 j 18:20	2° \approx 21'45	18°38'04		818 Nov 13 j 06:13	0° \mathfrak{X}
asc. node	818 Jan 01 j 05:15	3° \approx 43'32		evening rise	818 Nov 20 j 16:35	11° \mathfrak{X} 38'30
retrograde	818 Jan 06 j 09:41	6° \approx 03'13		greatest brilliancy	818 Dec 01 j 12:26	28° \mathfrak{X} 32'42 -0.8m
evening set	818 Jan 09 j 12:27	5° \approx 08'32			818 Dec 02 j 11:13	0° \mathfrak{Z}
	818 Jan 14 j 22:09	30° \mathbb{R} 3		evening max el	818 Dec 14 j 03:08	15° \mathfrak{Z} 49'35 19°19'32
inferior conj	818 Jan 15 j 07:33	29° \mathfrak{Z} 31'52	3°34'44	asc. node	818 Dec 19 j 02:15	19° \mathfrak{Z} 29'18
minimum elong	818 Jan 15 j 05:36	29° \mathfrak{Z} 37'41	3°34'29	retrograde	818 Dec 21 j 05:42	19° \mathfrak{Z} 54'38
min. Earth dist.	818 Jan 17 j 05:52	27° \mathfrak{Z} 13'13	0.64874 AU	evening set	818 Dec 24 j 15:13	18° \mathfrak{Z} 47'17
morning rise	818 Jan 20 j 22:19	23° \mathfrak{Z} 23'51		inferior conj	818 Dec 30 j 04:51	12° \mathfrak{Z} 54'50 3°09'29
direct	818 Jan 27 j 16:44	20° \mathfrak{Z} 31'34		minimum elong	818 Dec 30 j 02:14	13° \mathfrak{Z} 03'16 3°08'53
desc. node	818 Feb 09 j 07:17	27° \mathfrak{Z} 34'07		min. Earth dist.	818 Dec 31 j 12:17	11° \mathfrak{Z} 13'42 0.66162 AU
morning max el	818 Feb 10 j 01:08	28° \mathfrak{Z} 18'08	27°09'49	morning rise	819 Jan 04 j 13:00	6° \mathfrak{Z} 43'21
	818 Feb 11 j 16:24	0° \approx		direct	819 Jan 10 j 20:39	3° \mathfrak{Z} 55'57
	818 Mar 05 j 06:40	0° \mathfrak{X}		morning max el	819 Jan 23 j 10:31	11° \mathfrak{Z} 22'17 26°08'16
morning set	818 Mar 17 j 14:03	22° \mathfrak{X} 04'36		desc. node	819 Jan 27 j 04:19	15° \mathfrak{Z} 25'23
	818 Mar 21 j 13:52	0° \mathfrak{Y}			819 Feb 07 j 08:07	0° \approx
max. Earth dist.	818 Mar 22 j 04:57	1° \mathfrak{Y} 16'40	1.33912 AU		819 Feb 25 j 21:08	0° \mathfrak{X}
				morning set	819 Feb 28 j 15:15	5° \mathfrak{X} 02'40
superior conj	818 Mar 25 j 19:32	8° \mathfrak{Y} 45'35	-0°44'41	max. Earth dist.	819 Mar 04 j 14:30	12° \mathfrak{X} 35'36 1.35337 AU
minimum elong	818 Mar 25 j 21:43	8° \mathfrak{Y} 57'07	0°44'14			
asc. node	818 Mar 30 j 04:33	18° \mathfrak{Y} 01'58		superior conj	819 Mar 09 j 16:07	22° \mathfrak{X} 40'58 -1°11'17
evening rise	818 Apr 02 j 03:50	24° \mathfrak{Y} 18'10		minimum elong	819 Mar 09 j 19:31	22° \mathfrak{X} 58'16 1°10'43
	818 Apr 04 j 22:17	0° \mathbb{B}			819 Mar 13 j 05:34	0° \mathfrak{Y}
evening max el	818 Apr 22 j 17:44	27° \mathbb{B} 31'21	21°49'45	evening rise	819 Mar 17 j 11:22	8° \mathfrak{Y} 46'16

asc. node	819 Mar 17 j 01:35	7°Υ56'03			820 Mar 04 j 04:20	0°Υ	
	819 Mar 29 j 00:02	0°Ϡ		evening max el	820 Mar 17 j 13:17	20°Υ22'58	19°22'39
evening max el	819 Apr 04 j 21:48	8°Ϡ37'47	20°27'19	retrograde	820 Mar 26 j 18:13	24°Υ49'10	
retrograde	819 Apr 15 j 19:17	13°Ϡ53'26		evening set	820 Mar 28 j 21:25	24°Υ35'54	
evening set	819 Apr 17 j 21:46	13°Ϡ42'29		inferior conj	820 Apr 06 j 07:45	20°Υ28'19	1°18'41
desc. node	819 Apr 25 j 03:32	10°Ϡ50'02		minimum elong	820 Apr 06 j 10:49	20°Υ23'16	1°17'41
inferior conj	819 Apr 27 j 01:07	9°Ϡ44'47	-0°32'56	min. Earth dist.	820 Apr 09 j 01:49	18°Υ40'27	0.56184 AU
minimum elong	819 Apr 26 j 23:34	9°Ϡ47'02	0°32'23	desc. node	820 Apr 11 j 00:33	17°Υ29'48	
min. Earth dist.	819 Apr 28 j 11:09	8°Ϡ55'21	0.55144 AU	morning rise	820 Apr 14 j 21:26	15°Υ41'29	
morning rise	819 May 06 j 00:10	5°Ϡ30'26		direct	820 Apr 19 j 13:32	14°Υ51'46	
direct	819 May 09 j 16:20	5°Ϡ01'14		morning max el	820 May 03 j 17:03	22°Υ02'39	25°02'54
morning max el	819 May 23 j 02:20	11°Ϡ33'14	23°22'44		820 May 10 j 16:45	0°Ϡ	
	819 Jun 05 j 21:02	0°Π			820 May 28 j 07:18	0°Π	
asc. node	819 Jun 13 j 00:49	13°Π27'48		asc. node	820 May 29 j 21:53	3°Π20'59	
morning set	819 Jun 15 j 12:07	18°Π34'19		morning set	820 May 30 j 00:03	3°Π32'28	
	819 Jun 20 j 20:19	0°Ϡ					
				superior conj	820 Jun 05 j 23:45	18°Π39'15	1°08'35
superior conj	819 Jun 22 j 14:00	3°Ϡ44'09	1°25'46	minimum elong	820 Jun 05 j 21:22	18°Π26'14	1°08'11
minimum elong	819 Jun 22 j 11:36	3°Ϡ31'16	1°25'28	max. Earth dist.	820 Jun 07 j 06:39	21°Π27'19	1.32814 AU
max. Earth dist.	819 Jun 24 j 23:53	8°Ϡ52'20	1.33645 AU		820 Jun 11 j 06:32	0°Ϡ	
evening rise	819 Jun 30 j 03:55	19°Ϡ29'53		evening rise	820 Jun 13 j 03:58	3°Ϡ55'45	
	819 Jul 05 j 15:17	0°Ω			820 Jun 27 j 08:48	0°Ω	
desc. node	819 Jul 22 j 02:52	26°Ω34'49		desc. node	820 Jul 07 j 23:52	15°Ω19'02	
	819 Jul 24 j 15:52	0°൬		evening max el	820 Jul 15 j 13:55	23°Ω45'49	27°21'48
evening max el	819 Aug 03 j 04:59	10°൬54'06	27°21'31		820 Jul 24 j 10:53	0°൬	
retrograde	819 Aug 16 j 17:23	18°൬12'40		retrograde	820 Jul 29 j 08:36	1°൬03'13	
evening set	819 Aug 23 j 20:05	15°൬29'41			820 Aug 03 j 00:52	30°κΩ	
min. Earth dist.	819 Aug 27 j 13:06	12°൬05'32	0.64280 AU	evening set	820 Aug 05 j 13:31	28°Ω33'15	
inferior conj	819 Aug 29 j 22:14	9°൬33'38	-3°08'49	min. Earth dist.	820 Aug 09 j 03:26	25°Ω38'22	0.62560 AU
minimum elong	819 Aug 30 j 02:52	9°൬21'16	3°07'20	inferior conj	820 Aug 12 j 01:05	22°Ω53'02	-3°57'52
morning rise	819 Sep 05 j 10:35	4°൬08'31		minimum elong	820 Aug 12 j 06:05	22°Ω41'09	3°56'40
direct	819 Sep 08 j 01:19	3°൬33'40		morning rise	820 Aug 18 j 24:00	17°Ω46'53	
asc. node	819 Sep 08 j 23:59	3°൬38'17		direct	820 Aug 21 j 11:32	17°Ω19'04	
morning max el	819 Sep 14 j 13:36	7°൬00'20	17°58'06	asc. node	820 Aug 25 j 21:03	18°Ω48'31	
	819 Sep 29 j 20:46	0°♅		morning max el	820 Aug 28 j 05:11	20°Ω45'07	17°52'54
morning set	819 Oct 01 j 19:50	3°♅20'20			820 Sep 04 j 03:48	0°൬	
				morning set	820 Sep 13 j 09:06	15°൬57'49	
					820 Sep 21 j 07:58	0°♅	
superior conj	819 Oct 14 j 23:00	25°♅12'11	0°20'49				
minimum elong	819 Oct 15 j 01:21	25°♅21'43	0°20'29				
	819 Oct 17 j 22:30	0°♆		superior conj	820 Sep 24 j 15:01	5°♅38'35	1°00'09
desc. node	819 Oct 18 j 02:09	0°♆14'35		minimum elong	820 Sep 24 j 19:47	5°♅58'49	0°59'33
max. Earth dist.	819 Oct 20 j 00:27	3°♆19'03	1.44493 AU	max. Earth dist.	820 Oct 01 j 15:19	17°♅16'20	1.43268 AU
evening rise	819 Oct 31 j 04:44	20°♆46'46		desc. node	820 Oct 03 j 23:10	21°♅01'27	
	819 Nov 06 j 05:16	0°♁		evening rise	820 Oct 09 j 12:49	29°♅48'50	
evening max el	819 Nov 27 j 07:07	29°♁18'39	20°16'20		820 Oct 09 j 15:41	0°♆	
	819 Nov 27 j 23:38	0°♁			820 Oct 29 j 22:00	0°♁	
retrograde	819 Dec 05 j 03:27	3°♁55'30		evening max el	820 Nov 09 j 05:19	12°♁47'30	21°25'34
asc. node	819 Dec 05 j 23:16	3°♁51'38		retrograde	820 Nov 18 j 00:44	18°♁01'53	
evening set	819 Dec 08 j 21:22	2°♁33'56		asc. node	820 Nov 21 j 20:18	16°♁40'48	
	819 Dec 11 j 13:36	30°κ♁		evening set	820 Nov 22 j 04:59	16°♁24'28	
inferior conj	819 Dec 14 j 07:37	26°♁28'28	2°34'33	inferior conj	820 Nov 27 j 13:34	10°♁09'24	1°52'09
minimum elong	819 Dec 14 j 04:55	26°♁37'33	2°33'44	minimum elong	820 Nov 27 j 11:19	10°♁17'13	1°51'20
min. Earth dist.	819 Dec 15 j 01:42	25°♁27'29	0.67046 AU	min. Earth dist.	820 Nov 27 j 19:51	9°♁47'43	0.67560 AU
morning rise	819 Dec 19 j 12:18	20°♁15'22		morning rise	820 Dec 02 j 17:29	3°♁56'28	
direct	819 Dec 25 j 05:54	17°♁42'58		direct	820 Dec 07 j 19:53	1°♁44'40	
morning max el	820 Jan 05 j 19:07	24°♁35'57	24°48'41	morning max el	820 Dec 18 j 04:09	7°♁53'59	23°20'59
	820 Jan 10 j 16:08	0°♂		desc. node	820 Dec 30 j 22:24	23°♁38'06	
desc. node	820 Jan 14 j 01:22	4°♂12'15			821 Jan 04 j 10:03	0°♂	
	820 Jan 31 j 19:12	0°♁		morning set	821 Jan 22 j 04:21	27°♂47'22	
morning set	820 Feb 10 j 22:08	17°♁02'46			821 Jan 23 j 11:44	0°♁	
max. Earth dist.	820 Feb 14 j 14:00	23°♁39'15	1.37177 AU	max. Earth dist.	821 Jan 26 j 08:59	4°♁58'02	1.39276 AU
	820 Feb 17 j 23:27	0°♂					
				superior conj	821 Feb 02 j 22:57	18°♁37'34	-1°53'41
superior conj	820 Feb 21 j 02:38	6°♂02'10	-1°35'11	minimum elong	821 Feb 03 j 02:24	18°♁53'36	1°53'27
minimum elong	820 Feb 21 j 06:40	6°♂21'53	1°34'42		821 Feb 08 j 22:51	0°♂	
evening rise	820 Feb 29 j 13:34	22°♂53'07		evening rise	821 Feb 12 j 07:38	6°♂30'07	
asc. node	820 Mar 02 j 22:37	27°♂35'38		asc. node	821 Feb 17 j 19:39	16°♂54'20	

	821 Feb 26 j 03:17	0°♊			822 Feb 01 j 08:06	0°♋	
evening max el	821 Feb 28 j 14:32	2°♊43'37	18°37'53	asc. node	822 Feb 04 j 16:42	5°♋45'31	
retrograde	821 Mar 08 j 10:48	6°♊33'22		evening max el	822 Feb 11 j 22:40	15°♋32'30	18°13'10
evening set	821 Mar 10 j 19:12	6°♊13'58		retrograde	822 Feb 18 j 21:35	19°♋01'55	
inferior conj	821 Mar 18 j 10:19	1°♊48'26	2°40'28	evening set	822 Feb 21 j 11:28	18°♋33'59	
minimum elong	821 Mar 18 j 14:29	1°♊40'27	2°39'27	inferior conj	822 Feb 28 j 09:44	13°♋47'40	3°27'49
	821 Mar 20 j 18:47	30°♋		minimum elong	822 Feb 28 j 12:25	13°♋41'38	3°27'26
min. Earth dist.	821 Mar 21 j 19:32	29°♋14'04	0.57916 AU	min. Earth dist.	822 Mar 03 j 18:26	10°♋49'08	0.60001 AU
morning rise	821 Mar 26 j 06:48	26°♋29'21		morning rise	822 Mar 07 j 11:14	8°♋05'38	
desc. node	821 Mar 28 j 21:36	25°♋31'14		direct	822 Mar 14 j 00:53	6°♋04'56	
direct	821 Apr 01 j 00:51	25°♋06'21		desc. node	822 Mar 15 j 18:39	6°♋13'06	
	821 Apr 12 j 09:07	0°♊		morning max el	822 Mar 28 j 07:48	13°♋53'03	27°26'25
morning max el	821 Apr 15 j 09:41	2°♊41'49	26°28'45		822 Apr 10 j 05:24	0°♊	
	821 May 04 j 23:39	0°♋			822 Apr 27 j 06:05	0°♋	
morning set	821 May 14 j 10:56	18°♋26'15		morning set	822 Apr 28 j 19:02	3°♋09'50	
asc. node	821 May 16 j 18:56	23°♋24'17		asc. node	822 May 03 j 16:00	13°♋33'14	
	821 May 19 j 19:39	0°♋					
				superior conj	822 May 05 j 22:57	18°♋33'47	0°24'03
superior conj	821 May 21 j 11:18	3°♋37'46	0°47'45	minimum elong	822 May 05 j 21:53	18°♋27'58	0°23'49
minimum elong	821 May 21 j 09:24	3°♋27'15	0°47'23	max. Earth dist.	822 May 05 j 06:25	17°♋03'07	1.32282 AU
max. Earth dist.	821 May 21 j 18:00	4°♋14'30	1.32360 AU		822 May 11 j 04:39	0°♋	
evening rise	821 May 28 j 10:07	18°♋38'22		evening rise	822 May 12 j 20:03	3°♋30'07	
	821 Jun 03 j 02:02	0°♋			822 May 27 j 01:02	0°♋	
	821 Jun 22 j 05:20	0°♋		evening max el	822 Jun 09 j 14:48	17°♋23'56	25°45'27
desc. node	821 Jun 24 j 20:53	3°♋02'05		desc. node	822 Jun 11 j 17:56	19°♋18'28	
evening max el	821 Jun 27 j 17:43	5°♋57'35	26°49'18	retrograde	822 Jun 23 j 15:48	24°♋34'39	
retrograde	821 Jul 11 j 16:46	13°♋12'44		evening set	822 Jun 29 j 15:23	23°♋09'21	
evening set	821 Jul 18 j 13:28	11°♋09'48		min. Earth dist.	822 Jul 04 j 03:13	20°♋29'23	0.58513 AU
min. Earth dist.	821 Jul 22 j 07:34	8°♋31'12	0.60573 AU	inferior conj	822 Jul 07 j 09:29	18°♋07'55	-4°50'44
inferior conj	821 Jul 25 j 14:02	5°♋47'43	-4°35'01	minimum elong	822 Jul 07 j 09:42	18°♋07'31	4°50'44
minimum elong	821 Jul 25 j 17:46	5°♋39'53	4°34'31	morning rise	822 Jul 15 j 06:25	13°♋45'44	
morning rise	821 Aug 01 j 23:58	1°♋03'12		direct	822 Jul 17 j 18:44	13°♋25'23	
direct	821 Aug 04 j 10:47	0°♋40'00		morning max el	822 Jul 26 j 00:11	17°♋19'33	18°40'48
morning max el	821 Aug 11 j 17:47	4°♋14'42	18°06'44	asc. node	822 Jul 30 j 15:12	22°♋48'19	
asc. node	821 Aug 12 j 18:08	5°♋17'06			822 Aug 04 j 04:21	0°♋	
morning set	821 Aug 27 j 14:49	29°♋22'50		morning set	822 Aug 11 j 08:12	13°♋22'08	
	821 Aug 27 j 22:46	0°♋			822 Aug 19 j 22:59	0°♋	
superior conj	821 Sep 06 j 09:34	17°♋23'28	1°26'57	superior conj	822 Aug 20 j 01:32	0°♋12'00	1°41'46
minimum elong	821 Sep 06 j 13:38	17°♋41'37	1°26'34	minimum elong	822 Aug 20 j 03:39	0°♋21'56	1°41'40
	821 Sep 13 j 15:51	0°♋		max. Earth dist.	822 Aug 27 j 05:10	13°♋14'15	1.39558 AU
max. Earth dist.	821 Sep 14 j 00:33	0°♋36'34	1.41547 AU	evening rise	822 Aug 31 j 07:09	20°♋17'06	
evening rise	821 Sep 19 j 10:18	9°♋30'11			822 Sep 06 j 04:55	0°♋	
desc. node	821 Sep 20 j 20:11	11°♋45'59		desc. node	822 Sep 07 j 17:14	2°♋24'10	
	821 Oct 02 j 18:11	0°♋			822 Sep 26 j 22:05	0°♋	
evening max el	821 Oct 22 j 22:13	26°♋18'10	22°43'03	evening max el	822 Oct 05 j 11:33	9°♋52'14	24°03'10
	821 Oct 27 j 04:08	0°♋		retrograde	822 Oct 16 j 11:36	16°♋20'02	
retrograde	821 Nov 01 j 19:55	2°♋11'17		evening set	822 Oct 21 j 17:54	14°♋08'06	
evening set	821 Nov 06 j 12:23	0°♋16'49		min. Earth dist.	822 Oct 26 j 12:44	8°♋35'44	0.67587 AU
	821 Nov 06 j 20:14	30°♋		asc. node	822 Oct 26 j 14:24	8°♋30'06	
asc. node	821 Nov 08 j 17:21	28°♋03'25		inferior conj	822 Oct 27 j 03:37	7°♋45'24	0°11'23
inferior conj	821 Nov 11 j 20:50	23°♋55'55	1°03'58	minimum elong	822 Oct 27 j 03:20	7°♋46'20	0°11'16
minimum elong	821 Nov 11 j 19:24	24°♋00'52	1°03'23	transit middle	822 Oct 27 j 03:20	7°♋46'20	0°11'16
min. Earth dist.	821 Nov 11 j 16:22	24°♋11'22	0.67734 AU	transit begin	822 Oct 27 j 01:22	7°♋53'00	
morning rise	821 Nov 17 j 02:19	17°♋45'17		transit end	822 Oct 27 j 05:18	7°♋39'40	
direct	821 Nov 21 j 13:54	15°♋56'05		morning rise	822 Nov 01 j 12:45	1°♋39'35	
morning max el	821 Nov 30 j 16:48	21°♋18'17	21°54'36	direct	822 Nov 05 j 10:49	0°♋12'13	
	821 Dec 08 j 01:54	0°♋		morning max el	822 Nov 13 j 12:09	4°♋51'56	20°36'42
desc. node	821 Dec 17 j 19:26	13°♋32'11			822 Dec 02 j 04:18	0°♋	
	821 Dec 28 j 17:12	0°♋		desc. node	822 Dec 04 j 16:28	3°♋46'08	
morning set	822 Jan 02 j 05:25	7°♋07'36		morning set	822 Dec 12 j 06:28	15°♋23'19	
max. Earth dist.	822 Jan 08 j 07:07	17°♋02'53	1.41375 AU	max. Earth dist.	822 Dec 21 j 12:58	0°♋03'53	1.43186 AU
	822 Jan 15 j 20:34	0°♋			822 Dec 21 j 12:00	0°♋	
superior conj	822 Jan 16 j 00:08	0°♋15'43	-2°02'56	superior conj	822 Dec 28 j 00:52	10°♋44'07	-1°58'13
minimum elong	822 Jan 16 j 00:57	0°♋19'18	2°02'55	minimum elong	822 Dec 27 j 20:54	10°♋27'31	1°58'03
evening rise	822 Jan 26 j 14:10	19°♋29'43			823 Jan 08 j 05:41	0°♋	

evening rise	823 Jan 09 j 05:04	1°  43'01			823 Nov 25 j 06:27	0° 	
asc. node	823 Jan 22 j 13:44	24°  00'11		max. Earth dist.	823 Dec 04 j 02:20	13°  51'21	1.44464 AU
evening max el	823 Jan 26 j 10:25	28°  40'12	18°08'06				
	823 Jan 27 j 21:54	0° 		superior conj	823 Dec 07 j 23:01	20°  00'25	-1°35'26
retrograde	823 Feb 01 j 23:07	2°  04'30		minimum elong	823 Dec 07 j 14:48	19°  27'33	1°34'42
evening set	823 Feb 04 j 17:52	1°  26'47			823 Dec 14 j 03:11	0° 	
	823 Feb 07 j 03:01	30° 		evening rise	823 Dec 22 j 00:07	13°  03'05	
inferior conj	823 Feb 11 j 02:54	26°  19'31	3°46'27		824 Jan 01 j 05:03	0° 	
minimum elong	823 Feb 11 j 03:27	26°  18'07	3°46'25	asc. node	824 Jan 09 j 10:45	11°  27'33	
min. Earth dist.	823 Feb 14 j 00:56	23°  22'00	0.62092 AU	evening max el	824 Jan 09 j 22:53	11°  59'10	18°21'54
morning rise	823 Feb 17 j 11:49	20°  23'20		retrograde	824 Jan 16 j 10:54	15°  31'19	
direct	823 Feb 24 j 10:36	17°  51'58		evening set	824 Jan 19 j 10:32	14°  43'01	
desc. node	823 Mar 02 j 15:41	19°  37'16		inferior conj	824 Jan 25 j 09:50	9°  16'13	3°43'40
morning max el	823 Mar 10 j 11:55	25°  45'03	27°48'19	minimum elong	824 Jan 25 j 08:36	9°  19'43	3°43'34
	823 Mar 14 j 10:33	0° 		min. Earth dist.	824 Jan 27 j 16:56	6°  39'43	0.63955 AU
	823 Apr 03 j 16:42	0° 		morning rise	824 Jan 31 j 06:03	3°  11'27	
morning set	823 Apr 12 j 22:20	17°  36'26		direct	824 Feb 07 j 04:08	0° 	
max. Earth dist.	823 Apr 18 j 16:07	29°  40'21	1.32586 AU	desc. node	824 Feb 17 j 12:42	5°  11'24	
	823 Apr 18 j 19:46	0° 		morning max el	824 Feb 20 j 20:17	8°  14'14	27°33'29
					824 Mar 08 j 17:01	0° 	
superior conj	823 Apr 20 j 08:58	3°  21'29	-0°01'49		824 Mar 25 j 22:33	0° 	
minimum elong	823 Apr 20 j 09:03	3°  21'57	0°01'48	morning set	824 Mar 26 j 18:15	1°  36'58	
behind sun begin	823 Apr 20 j 03:56	2°  54'09		max. Earth dist.	824 Mar 31 j 19:06	11°  52'24	1.33300 AU
behind sun end	823 Apr 20 j 14:10	3°  49'47					
asc. node	823 Apr 20 j 13:03	3°  43'46		superior conj	824 Apr 03 j 15:27	17°  53'45	-0°28'55
evening rise	823 Apr 27 j 07:44	18°  24'05		minimum elong	824 Apr 03 j 16:52	18°  01'17	0°28'37
	823 May 03 j 00:51	0° 		asc. node	824 Apr 06 j 10:05	23°  50'57	
evening max el	823 May 22 j 06:14	28°  11'50	24°18'39		824 Apr 09 j 06:55	0° 	
	823 May 24 j 06:11	0° 		evening rise	824 Apr 10 j 19:17	3°  12'43	
desc. node	823 May 29 j 14:58	3°  35'08			824 Apr 25 j 14:31	0° 	
retrograde	823 Jun 05 j 03:07	5°  11'21		evening max el	824 May 02 j 21:07	8°  14'22	22°42'58
evening set	823 Jun 09 j 18:22	4°  23'27		desc. node	824 May 15 j 11:59	15°  15'33	
min. Earth dist.	823 Jun 15 j 17:22	1°  25'48	0.56674 AU	retrograde	824 May 16 j 01:58	15°  16'19	
	823 Jun 17 j 23:55	30° 		evening set	824 May 19 j 07:03	14°  15'34	
inferior conj	823 Jun 18 j 08:57	29°  14'54	-4°32'02	min. Earth dist.	824 May 27 j 05:22	11°  25'31	0.55389 AU
minimum elong	823 Jun 18 j 04:11	29°  15'31	4°31'24	inferior conj	824 May 28 j 13:36	10°  18'25	-3°27'46
morning rise	823 Jun 26 j 16:43	25°  14'30		minimum elong	824 May 28 j 06:03	10°  18'50	3°25'47
direct	823 Jun 29 j 08:10	25°  14'24		morning rise	824 Jun 06 j 07:23	6°  14'46	
morning max el	823 Jul 08 j 21:28	29°  15'02	19°36'00	direct	824 Jun 09 j 03:24	6°  14'28	
	823 Jul 09 j 01:32	0° 		morning max el	824 Jun 20 j 07:43	11°  28'39	20°51'53
asc. node	823 Jul 17 j 12:16	11°  08'23		asc. node	824 Jul 03 j 09:19	0° 	
morning set	823 Jul 26 j 09:42	27°  04'28			824 Jul 03 j 08:13	0° 	
	823 Jul 27 j 12:14	0° 		morning set	824 Jul 09 j 16:34	12°  04'27	
superior conj	823 Aug 03 j 09:24	13°  04'52	1°46'34	superior conj	824 Jul 17 j 04:29	27°  05'50	1°43'20
minimum elong	823 Aug 03 j 09:33	13°  04'49	1°46'34	minimum elong	824 Jul 17 j 03:10	27°  05'30	1°43'15
max. Earth dist.	823 Aug 09 j 09:05	25°  18'07	1.37553 AU		824 Jul 18 j 04:00	0° 	
	823 Aug 11 j 22:33	0° 		max. Earth dist.	824 Jul 21 j 17:31	7°  08'08	1.35752 AU
evening rise	823 Aug 13 j 04:02	2°  12'22		evening rise	824 Jul 25 j 20:54	15°  05'16	
desc. node	823 Aug 25 j 14:17	22°  15'39			824 Aug 03 j 06:33	0° 	
	823 Aug 30 j 08:06	0° 		desc. node	824 Aug 11 j 11:19	13°  02'03	
evening max el	823 Sep 17 j 23:26	23°  30'07	25°18'56		824 Aug 23 j 22:49	0° 	
	823 Sep 27 j 09:01	0° 		evening max el	824 Aug 30 j 11:15	7°  07'20	26°22'55
retrograde	823 Sep 29 j 22:57	0° 		retrograde	824 Sep 12 j 05:25	14°  18'41	
	823 Oct 02 j 09:31	30° 		evening set	824 Sep 18 j 16:15	11°  18'38	
evening set	823 Oct 05 j 19:50	27°  56'24		min. Earth dist.	824 Sep 22 j 19:19	7°  17'42	0.66293 AU
min. Earth dist.	823 Oct 10 j 06:31	22°  59'04	0.67115 AU	inferior conj	824 Sep 24 j 08:32	5°  24'06	-1°41'12
inferior conj	823 Oct 11 j 08:08	21°  35'54	-0°44'11	minimum elong	824 Sep 24 j 11:10	5°  16'05	1°40'09
minimum elong	823 Oct 11 j 09:16	21°  32'16	0°43'42	asc. node	824 Sep 29 j 08:29	0° 	
asc. node	823 Oct 13 j 11:27	18°  54'54			824 Sep 29 j 15:25	30° 	
morning rise	823 Oct 16 j 22:51	15°  37'40		morning rise	824 Sep 30 j 06:31	29°  36'22	
direct	823 Oct 20 j 09:12	14°  29'39		direct	824 Oct 03 j 07:17	28°  44'14	
morning max el	823 Oct 27 j 15:21	18°  36'23	19°31'49		824 Oct 07 j 02:08	0° 	
	823 Nov 05 j 14:01	0° 		morning max el	824 Oct 10 j 01:17	2°  28'29	18°42'17
greatest brilliancy	823 Nov 10 j 07:11	6°  57'59	-0.7m		824 Oct 29 j 01:04	0° 	
morning set	823 Nov 21 j 04:41	23° 14'02		morning set	824 Oct 30 j 23:15	3° 03'28	
desc. node	823 Nov 21 j 13:30	24° 14'33		desc. node	824 Nov 07 j 10:34	14° 53'03	

superior conj	824 Nov 16 j 02:19	28° \mathbb{M} 29'54	-0°55'12	minimum elong	825 Oct 26 j 05:38	7° \mathbb{M} 05'00	0°06'14
minimum elong	824 Nov 15 j 19:25	28° \mathbb{M} 02'48	0°54'21	behind sun begin	825 Oct 25 j 19:31	6° \mathbb{M} 24'46	
max. Earth dist.	824 Nov 15 j 20:12	28° \mathbb{M} 05'53	1.45051 AU	behind sun end	825 Oct 26 j 15:45	7° \mathbb{M} 45'12	
	824 Nov 17 j 01:14	0° \mathbb{A}		max. Earth dist.	825 Oct 29 j 14:51	12° \mathbb{M} 26'23	1.44900 AU
evening rise	824 Dec 01 j 20:03	23° \mathbb{A} 25'47			825 Nov 09 j 20:32	0° \mathbb{A}	
	824 Dec 05 j 22:26	0° \mathbb{B}		evening rise	825 Nov 11 j 17:30	2° \mathbb{A} 54'33	
greatest brilliancy	824 Dec 09 j 06:04	5° \mathbb{B} 18'19	-0.9m	greatest brilliancy	825 Nov 24 j 12:45	22° \mathbb{A} 34'48	-0.7m
evening max el	824 Dec 23 j 09:35	25° \mathbb{B} 24'42	18°53'39		825 Nov 29 j 14:32	0° \mathbb{B}	
asc. node	824 Dec 26 j 07:46	27° \mathbb{B} 54'47		evening max el	825 Dec 06 j 16:26	8° \mathbb{B} 52'45	19°41'58
retrograde	824 Dec 30 j 04:57	29° \mathbb{B} 15'25		asc. node	825 Dec 13 j 04:48	13° \mathbb{B} 06'30	
evening set	825 Jan 02 j 10:21	28° \mathbb{B} 15'32		retrograde	825 Dec 14 j 02:03	13° \mathbb{B} 10'53	
inferior conj	825 Jan 08 j 02:49	22° \mathbb{B} 31'35	3°25'23	evening set	825 Dec 17 j 14:48	11° \mathbb{B} 57'54	
minimum elong	825 Jan 08 j 00:31	22° \mathbb{B} 38'44	3°24'59	inferior conj	825 Dec 23 j 02:46	5° \mathbb{B} 59'32	2°55'41
min. Earth dist.	825 Jan 09 j 18:35	20° \mathbb{B} 28'20	0.65465 AU	minimum elong	825 Dec 23 j 00:03	6° \mathbb{B} 08'29	2°54'59
morning rise	825 Jan 13 j 14:20	16° \mathbb{B} 21'36		min. Earth dist.	825 Dec 24 j 04:22	4° \mathbb{B} 35'10	0.66584 AU
direct	825 Jan 20 j 04:32	13° \mathbb{B} 30'09		morning rise	825 Dec 28 j 09:04	29° \mathbb{A} 46'52	
morning max el	825 Feb 02 j 06:11	21° \mathbb{B} 10'10	26°46'35		825 Dec 28 j 03:21	30° \mathbb{R} \mathbb{A}	
desc. node	825 Feb 03 j 09:43	22° \mathbb{B} 21'01		direct	826 Jan 03 j 10:57	27° \mathbb{A} 04'42	
	825 Feb 09 j 22:40	0° \mathbb{A}			826 Jan 10 j 17:12	0° \mathbb{B}	
	825 Mar 01 j 20:37	0° \mathbb{H}		morning max el	826 Jan 15 j 15:15	4° \mathbb{B} 19'18	25°35'57
morning set	825 Mar 10 j 03:31	15° \mathbb{H} 01'34		desc. node	826 Jan 21 j 06:46	10° \mathbb{B} 38'06	
max. Earth dist.	825 Mar 14 j 11:37	23° \mathbb{H} 30'21	1.34460 AU		826 Feb 04 j 08:03	0° \mathbb{A}	
	825 Mar 17 j 16:19	0° \mathbb{Y}		morning set	826 Feb 20 j 21:36	27° \mathbb{A} 36'36	
					826 Feb 22 j 04:51	0° \mathbb{H}	
superior conj	825 Mar 18 j 16:22	2° \mathbb{Y} 04'25	-0°56'09	max. Earth dist.	826 Feb 24 j 16:05	4° \mathbb{H} 37'28	1.36073 AU
minimum elong	825 Mar 18 j 19:07	2° \mathbb{Y} 18'39	0°55'38				
asc. node	825 Mar 24 j 07:07	13° \mathbb{Y} 50'57		superior conj	826 Mar 02 j 09:03	15° \mathbb{H} 45'40	-1°21'54
evening rise	825 Mar 26 j 04:51	17° \mathbb{Y} 49'52		minimum elong	826 Mar 02 j 12:49	16° \mathbb{H} 04'32	1°21'21
	825 Apr 01 j 07:40	0° \mathbb{B}			826 Mar 09 j 09:03	0° \mathbb{Y}	
evening max el	825 Apr 14 j 18:51	19° \mathbb{B} 30'05	21°12'47	evening rise	826 Mar 10 j 10:22	2° \mathbb{Y} 08'56	
retrograde	825 Apr 26 j 16:09	25° \mathbb{B} 17'12		asc. node	826 Mar 11 j 04:08	3° \mathbb{Y} 38'56	
evening set	825 Apr 28 j 23:04	25° \mathbb{B} 05'04			826 Mar 27 j 07:02	0° \mathbb{B}	
desc. node	825 May 02 j 08:57	24° \mathbb{B} 06'03		evening max el	826 Mar 28 j 03:48	0° \mathbb{B} 52'07	19°57'28
inferior conj	825 May 08 j 07:58	21° \mathbb{B} 05'47	-1°42'16	retrograde	826 Apr 07 j 07:45	5° \mathbb{B} 45'30	
minimum elong	825 May 08 j 03:11	21° \mathbb{B} 12'31	1°40'36	evening set	826 Apr 09 j 09:19	5° \mathbb{B} 34'17	
min. Earth dist.	825 May 08 j 17:59	20° \mathbb{B} 51'40	0.54950 AU	inferior conj	826 Apr 18 j 06:14	1° \mathbb{B} 34'15	0°17'01
morning rise	825 May 17 j 07:31	17° \mathbb{B} 04'33		minimum elong	826 Apr 18 j 06:59	1° \mathbb{B} 33'06	0°16'46
direct	825 May 20 j 13:16	16° \mathbb{B} 41'49		desc. node	826 Apr 19 j 05:57	0° \mathbb{B} 58'06	
morning max el	825 Jun 02 j 07:16	22° \mathbb{B} 45'55	22°24'49	min. Earth dist.	826 Apr 20 j 07:57	0° \mathbb{B} 18'50	0.55479 AU
	825 Jun 08 j 15:30	0° \mathbb{I}			826 Apr 20 j 20:41	30° \mathbb{R} \mathbb{Y}	
asc. node	825 Jun 20 j 06:22	19° \mathbb{I} 29'02		morning rise	826 Apr 27 j 02:28	27° \mathbb{Y} 06'31	
morning set	825 Jun 24 j 02:46	27° \mathbb{I} 19'11		direct	826 May 01 j 04:00	26° \mathbb{Y} 30'07	
	825 Jun 25 j 09:23	0° \mathbb{E}			826 May 10 j 21:54	0° \mathbb{B}	
				morning max el	826 May 14 j 23:27	3° \mathbb{B} 21'23	24°06'09
superior conj	825 Jul 01 j 07:17	12° \mathbb{E} 34'25	1°33'42		826 Jun 02 j 11:54	0° \mathbb{I}	
minimum elong	825 Jul 01 j 05:06	12° \mathbb{E} 22'55	1°33'29	asc. node	826 Jun 07 j 03:26	9° \mathbb{I} 13'08	
max. Earth dist.	825 Jul 04 j 10:34	19° \mathbb{E} 08'10	1.34298 AU	morning set	826 Jun 08 j 14:31	12° \mathbb{I} 16'14	
evening rise	825 Jul 09 j 05:03	28° \mathbb{E} 43'35					
	825 Jul 09 j 20:46	0° \mathbb{Q}		superior conj	826 Jun 15 j 15:08	27° \mathbb{I} 24'04	1°18'59
	825 Jul 27 j 10:20	0° \mathbb{P}		minimum elong	826 Jun 15 j 12:40	27° \mathbb{I} 10'47	1°18'38
desc. node	825 Jul 29 j 08:20	2° \mathbb{P} 47'49			826 Jun 16 j 20:03	0° \mathbb{E}	
evening max el	825 Aug 12 j 23:08	20° \mathbb{P} 36'08	27°07'27	max. Earth dist.	826 Jun 17 j 12:52	1° \mathbb{E} 30'08	1.33237 AU
retrograde	825 Aug 26 j 06:34	27° \mathbb{P} 54'55		evening rise	826 Jun 23 j 00:18	12° \mathbb{E} 55'18	
evening set	825 Sep 02 j 04:44	25° \mathbb{P} 09'48			826 Jul 02 j 01:05	0° \mathbb{Q}	
min. Earth dist.	825 Sep 06 j 00:55	21° \mathbb{P} 25'46	0.65114 AU	desc. node	826 Jul 16 j 05:19	21° \mathbb{Q} 58'44	
inferior conj	825 Sep 08 j 02:40	19° \mathbb{P} 05'47	-2°37'42		826 Jul 22 j 18:18	0° \mathbb{P}	
minimum elong	825 Sep 08 j 06:42	18° \mathbb{P} 54'26	2°36'15	evening max el	826 Jul 26 j 10:00	3° \mathbb{P} 46'10	27°25'39
morning rise	825 Sep 14 j 09:26	13° \mathbb{P} 31'33		retrograde	826 Aug 09 j 01:49	11° \mathbb{P} 05'03	
asc. node	825 Sep 16 j 05:32	12° \mathbb{P} 55'51		evening set	826 Aug 16 j 06:17	8° \mathbb{P} 26'06	
direct	825 Sep 17 j 02:59	12° \mathbb{P} 51'32		min. Earth dist.	826 Aug 19 j 21:26	5° \mathbb{P} 15'17	0.63581 AU
morning max el	825 Sep 23 j 15:35	16° \mathbb{P} 22'29	18°09'14	inferior conj	826 Aug 22 j 12:02	2° \mathbb{P} 36'07	-3°30'40
	825 Oct 03 j 12:18	0° \mathbb{L}		minimum elong	826 Aug 22 j 16:58	2° \mathbb{P} 23'33	3°29'14
morning set	825 Oct 11 j 22:39	13° \mathbb{L} 51'49			826 Aug 25 j 04:27	30° \mathbb{R} \mathbb{Q}	
	825 Oct 21 j 19:24	0° \mathbb{M}		morning rise	826 Aug 29 j 04:46	27° \mathbb{Q} 18'32	
desc. node	825 Oct 25 j 07:36	5° \mathbb{M} 37'17		direct	826 Aug 31 j 17:43	26° \mathbb{Q} 47'08	
				asc. node	826 Sep 03 j 02:37	27° \mathbb{Q} 14'57	
superior conj	825 Oct 26 j 06:27	7° \mathbb{M} 08'12	-0°06'20		826 Sep 07 j 02:18	0° \mathbb{P}	

morning max el	826 Sep 07 j 07:33	0° \mathbb{M} 12'53	17°53'35	superior conj	827 Sep 17 j 10:37	27° \mathbb{M} 49'30	1°13'03
morning set	826 Sep 23 j 24:00	25° \mathbb{M} 55'36		minimum elong	827 Sep 17 j 15:21	28° \mathbb{M} 10'03	1°12'32
	826 Sep 26 j 08:23	0° $\underline{\mathbf{A}}$			827 Sep 18 j 16:52	0° $\underline{\mathbf{A}}$	
superior conj	826 Oct 06 j 06:53	16° $\underline{\mathbf{A}}$ 48'38	0°38'56	max. Earth dist.	827 Sep 24 j 20:49	10° $\underline{\mathbf{A}}$ 21'48	1.42593 AU
minimum elong	826 Oct 06 j 10:46	17° $\underline{\mathbf{A}}$ 04'36	0°38'24	desc. node	827 Sep 29 j 01:40	17° $\underline{\mathbf{A}}$ 10'47	
desc. node	826 Oct 12 j 04:38	26° $\underline{\mathbf{A}}$ 24'26		evening rise	827 Oct 01 j 13:50	21° $\underline{\mathbf{A}}$ 09'36	
max. Earth dist.	826 Oct 12 j 07:49	26° $\underline{\mathbf{A}}$ 37'07	1.44047 AU		827 Oct 07 j 06:43	0° \mathbb{M}	
	826 Oct 14 j 10:45	0° \mathbb{M}		evening max el	827 Oct 28 j 10:38	0° \mathbb{M}	
evening rise	826 Oct 22 j 01:48	11° \mathbb{M} 55'00		retrograde	827 Nov 02 j 14:05	5° \mathbb{M} 52'19	21°57'48
	826 Nov 03 j 00:39	0° \mathbb{M}		retrograde	827 Nov 11 j 20:14	11° \mathbb{M} 22'35	
evening max el	826 Nov 19 j 18:07	22° \mathbb{M} 22'12	20°44'30	evening set	827 Nov 16 j 05:33	9° \mathbb{M} 37'59	
retrograde	826 Nov 27 j 23:45	27° \mathbb{M} 14'21		asc. node	827 Nov 16 j 22:54	9° \mathbb{M} 00'16	
asc. node	826 Nov 30 j 01:50	26° \mathbb{M} 49'48		inferior conj	827 Nov 21 j 13:56	3° \mathbb{M} 20'10	1°32'21
evening set	826 Dec 01 j 21:48	25° \mathbb{M} 46'25		minimum elong	827 Nov 21 j 11:59	3° \mathbb{M} 26'57	1°31'35
inferior conj	826 Dec 07 j 07:11	19° \mathbb{M} 36'42	2°17'22	min. Earth dist.	827 Nov 21 j 15:33	3° \mathbb{M} 14'35	0.67685 AU
minimum elong	826 Dec 07 j 04:37	19° \mathbb{M} 45'28	2°16'31		827 Nov 24 j 01:46	30° \mathbb{M}	
min. Earth dist.	826 Dec 07 j 20:09	18° \mathbb{M} 52'21	0.67316 AU	morning rise	827 Nov 26 j 18:16	27° \mathbb{M} 08'10	
morning rise	826 Dec 12 j 11:13	13° \mathbb{M} 23'22		direct	827 Dec 01 j 14:22	25° \mathbb{M} 05'51	
direct	826 Dec 17 j 22:31	10° \mathbb{M} 58'58			827 Dec 10 j 11:31	0° \mathbb{M}	
morning max el	826 Dec 28 j 23:32	17° \mathbb{M} 34'09	24°11'34	morning max el	827 Dec 11 j 09:37	0° \mathbb{M} 54'15	22°43'31
desc. node	827 Jan 08 j 03:50	29° \mathbb{M} 43'10		desc. node	827 Dec 26 j 00:53	19° \mathbb{M} 22'18	
	827 Jan 08 j 08:53	0° \mathbb{M}			828 Jan 02 j 07:12	0° \mathbb{M}	
	827 Jan 28 j 09:26	0° \mathbb{M}		morning set	828 Jan 14 j 12:45	19° \mathbb{M} 14'52	
morning set	827 Feb 02 j 18:43	9° \mathbb{M} 06'06		max. Earth dist.	828 Jan 19 j 08:15	27° \mathbb{M} 18'57	1.40194 AU
max. Earth dist.	827 Feb 06 j 12:17	15° \mathbb{M} 41'06	1.38057 AU		828 Jan 20 j 21:43	0° \mathbb{M}	
superior conj	827 Feb 13 j 14:04	28° \mathbb{M} 48'44	-1°43'55	superior conj	828 Jan 27 j 02:59	11° \mathbb{M} 01'58	-1°59'00
minimum elong	827 Feb 13 j 18:03	29° \mathbb{M} 07'47	1°43'31	minimum elong	828 Jan 27 j 05:36	11° \mathbb{M} 13'53	1°58'53
	827 Feb 14 j 04:56	0° \mathbb{M}		evening rise	828 Feb 05 j 23:05	29° \mathbb{M} 26'05	
evening rise	827 Feb 22 j 09:27	16° \mathbb{M} 03'29			828 Feb 06 j 06:14	0° \mathbb{M}	
asc. node	827 Feb 26 j 01:10	23° \mathbb{M} 10'02		asc. node	828 Feb 12 j 22:13	12° \mathbb{M} 18'15	
	827 Mar 01 j 18:29	0° \mathbb{M}		evening max el	828 Feb 22 j 04:28	25° \mathbb{M} 27'30	18°24'54
evening max el	827 Mar 10 j 23:51	12° \mathbb{M} 53'16	19°01'08	retrograde	828 Feb 29 j 14:05	29° \mathbb{M} 06'37	
retrograde	827 Mar 19 j 13:15	17° \mathbb{M} 01'27		evening set	828 Mar 03 j 00:59	28° \mathbb{M} 43'40	
evening set	827 Mar 21 j 18:41	16° \mathbb{M} 45'50		inferior conj	828 Mar 10 j 08:28	24° \mathbb{M} 09'04	3°04'34
inferior conj	827 Mar 29 j 20:45	12° \mathbb{M} 31'27	1°57'44	minimum elong	828 Mar 10 j 12:12	24° \mathbb{M} 01'24	3°03'48
minimum elong	827 Mar 30 j 00:43	12° \mathbb{M} 24'29	1°56'33	min. Earth dist.	828 Mar 13 j 18:56	21° \mathbb{M} 21'41	0.58784 AU
min. Earth dist.	827 Apr 01 j 23:36	10° \mathbb{M} 21'31	0.56860 AU	morning rise	828 Mar 17 j 20:49	18° \mathbb{M} 39'14	
desc. node	827 Apr 06 j 03:00	7° \mathbb{M} 57'11		desc. node	828 Mar 23 j 00:03	17° \mathbb{M} 03'00	
morning rise	827 Apr 07 j 03:44	7° \mathbb{M} 30'22		direct	828 Mar 24 j 00:20	17° \mathbb{M} 00'20	
direct	827 Apr 12 j 07:33	6° \mathbb{M} 27'28		morning max el	828 Apr 07 j 08:47	24° \mathbb{M} 41'23	26°57'28
morning max el	827 Apr 26 j 14:04	13° \mathbb{M} 50'17	25°42'10		828 Apr 12 j 05:38	0° \mathbb{M}	
	827 May 09 j 08:03	0° \mathbb{M}		morning set	828 May 01 j 11:29	0° \mathbb{M}	
morning set	827 May 24 j 02:11	27° \mathbb{M} 12'41		asc. node	828 May 07 j 12:07	12° \mathbb{M} 03'12	
asc. node	827 May 25 j 00:28	29° \mathbb{M} 10'47			828 May 10 j 21:32	19° \mathbb{M} 17'12	
	827 May 25 j 09:42	0° \mathbb{M}		superior conj	828 May 14 j 13:38	27° \mathbb{M} 19'10	0°38'00
superior conj	827 May 31 j 01:51	12° \mathbb{M} 20'56	1°00'08	minimum elong	828 May 14 j 12:03	27° \mathbb{M} 10'24	0°37'41
minimum elong	827 May 30 j 23:36	12° \mathbb{M} 08'40	0°59'45	max. Earth dist.	828 May 14 j 10:32	27° \mathbb{M} 02'06	1.32284 AU
max. Earth dist.	827 May 31 j 22:02	14° \mathbb{M} 11'26	1.32572 AU		828 May 15 j 18:54	0° \mathbb{M}	
evening rise	827 Jun 07 j 03:16	27° \mathbb{M} 29'15		evening rise	828 May 21 j 11:19	12° \mathbb{M} 16'57	
	827 Jun 08 j 08:38	0° \mathbb{M}			828 May 30 j 12:30	0° \mathbb{M}	
	827 Jun 25 j 09:29	0° \mathbb{M}		desc. node	828 Jun 18 j 23:21	27° \mathbb{M} 29'10	
desc. node	827 Jul 03 j 02:21	10° \mathbb{M} 19'29		evening max el	828 Jun 19 j 18:23	28° \mathbb{M} 15'26	26°25'37
evening max el	827 Jul 08 j 17:19	16° \mathbb{M} 22'58	27°12'14		828 Jun 21 j 16:49	0° \mathbb{M}	
retrograde	827 Jul 22 j 14:04	23° \mathbb{M} 38'49		retrograde	828 Jul 03 j 18:11	5° \mathbb{M} 28'27	
evening set	827 Jul 29 j 16:51	21° \mathbb{M} 19'06		evening set	828 Jul 10 j 07:49	3° \mathbb{M} 40'34	
min. Earth dist.	827 Aug 02 j 07:30	18° \mathbb{M} 32'52	0.61735 AU	min. Earth dist.	828 Jul 14 j 07:27	1° \mathbb{M} 03'54	0.59695 AU
inferior conj	827 Aug 05 j 09:27	15° \mathbb{M} 46'26	-4°15'34		828 Jul 15 j 16:35	30° \mathbb{M}	
minimum elong	827 Aug 05 j 14:09	15° \mathbb{M} 35'48	4°14'39	inferior conj	828 Jul 17 j 15:20	28° \mathbb{M} 27'21	-4°45'01
morning rise	827 Aug 12 j 12:58	10° \mathbb{M} 48'52		minimum elong	828 Jul 17 j 17:52	28° \mathbb{M} 22'21	4°44'49
direct	827 Aug 14 j 23:57	10° \mathbb{M} 23'12		morning rise	828 Jul 25 j 05:57	23° \mathbb{M} 52'25	
asc. node	827 Aug 20 j 23:41	13° \mathbb{M} 00'12		direct	828 Jul 27 j 17:22	23° \mathbb{M} 30'28	
morning max el	827 Aug 21 j 22:12	13° \mathbb{M} 51'52	17°56'22	morning max el	828 Aug 04 j 08:28	27° \mathbb{M} 11'36	18°18'45
	827 Sep 01 j 22:15	0° \mathbb{M}		asc. node	828 Aug 06 j 20:45	29° \mathbb{M} 56'56	
morning set	827 Sep 06 j 21:00	8° \mathbb{M} 55'39			828 Aug 06 j 21:45	0° \mathbb{M}	
				morning set	828 Aug 20 j 08:09	22° \mathbb{M} 36'28	

	828 Aug 24 j 05:27	0° \mathbb{M}			829 Jul 31 j 17:36	0° \mathcal{O}	
				morning set	829 Aug 04 j 05:18	6° \mathcal{O} 46'55	
superior conj	828 Aug 29 j 14:59	10° \mathbb{M} 03'23	1°34'35				
minimum elong	828 Aug 29 j 18:16	10° \mathbb{M} 18'25	1°34'21	superior conj	829 Aug 12 j 14:19	23° \mathcal{O} 14'17	1°44'55
max. Earth dist.	828 Sep 06 j 04:15	23° \mathbb{M} 25'35	1.40721 AU	minimum elong	829 Aug 12 j 15:34	23° \mathcal{O} 20'14	1°44'52
	828 Sep 10 j 02:01	0° \mathcal{A}			829 Aug 16 j 04:07	0° \mathbb{M}	
evening rise	828 Sep 10 j 20:37	1° \mathcal{A} 16'42		max. Earth dist.	829 Aug 19 j 07:35	5° \mathbb{M} 45'28	1.38683 AU
desc. node	828 Sep 14 j 22:42	7° \mathcal{A} 52'59		evening rise	829 Aug 23 j 03:53	12° \mathbb{M} 32'50	
	828 Sep 29 j 16:54	0° \mathbb{M}		desc. node	829 Sep 01 j 19:44	28° \mathbb{M} 27'08	
evening max el	828 Oct 15 j 05:10	19° \mathbb{M} 24'01	23°17'07		829 Sep 02 j 19:34	0° \mathcal{A}	
retrograde	828 Oct 25 j 14:02	25° \mathbb{M} 32'28			829 Sep 24 j 21:01	0° \mathbb{M}	
evening set	828 Oct 30 j 12:22	23° \mathbb{M} 30'15		evening max el	829 Sep 27 j 17:26	2° \mathbb{M} 59'23	24°36'22
asc. node	828 Nov 02 j 19:58	19° \mathbb{M} 53'46		retrograde	829 Oct 09 j 04:09	9° \mathbb{M} 40'29	
inferior conj	828 Nov 04 j 21:11	17° \mathbb{M} 08'03	0°42'07	evening set	829 Oct 14 j 16:36	7° \mathbb{M} 21'11	
minimum elong	828 Nov 04 j 20:13	17° \mathbb{M} 11'25	0°41'42	min. Earth dist.	829 Oct 19 j 07:46	2° \mathbb{M} 03'31	0.67419 AU
min. Earth dist.	828 Nov 04 j 12:12	17° \mathbb{M} 38'55	0.67715 AU	inferior conj	829 Oct 20 j 03:13	0° \mathbb{M} 58'39	-0°11'54
morning rise	828 Nov 10 j 04:00	10° \mathbb{M} 59'24		minimum elong	829 Oct 20 j 03:30	0° \mathbb{M} 57'41	0°11'47
direct	828 Nov 14 j 09:36	9° \mathbb{M} 19'54		transit middle	829 Oct 20 j 03:30	0° \mathbb{M} 57'41	0°11'47
morning max el	828 Nov 23 j 00:59	14° \mathbb{M} 22'47	21°20'06	transit begin	829 Oct 20 j 01:37	1° \mathbb{M} 04'00	
	828 Dec 05 j 09:58	0° \mathcal{A}		transit end	829 Oct 20 j 05:24	0° \mathbb{M} 51'22	
desc. node	828 Dec 11 j 21:56	9° \mathcal{A} 25'40		asc. node	829 Oct 20 j 17:00	0° \mathbb{M} 12'51	
morning set	828 Dec 24 j 02:06	28° \mathcal{A} 02'50			829 Oct 20 j 20:54	30° \mathcal{R} \mathcal{A}	
	828 Dec 25 j 07:44	0° \mathcal{B}		morning rise	829 Oct 25 j 14:30	24° \mathcal{A} 55'46	
max. Earth dist.	828 Dec 31 j 09:54	9° \mathcal{B} 49'46	1.42198 AU	direct	829 Oct 29 j 07:14	23° \mathcal{A} 37'12	
				morning max el	829 Nov 05 j 23:47	28° \mathcal{A} 02'04	20°07'24
superior conj	829 Jan 07 j 18:19	22° \mathcal{B} 11'29	-2°02'55		829 Nov 07 j 19:38	0° \mathbb{M}	
minimum elong	829 Jan 07 j 17:18	22° \mathcal{B} 07'06	2°02'55	desc. node	829 Nov 28 j 18:59	29° \mathbb{M} 46'47	
	829 Jan 12 j 05:38	0° \mathcal{A}			829 Nov 28 j 22:26	0° \mathcal{A}	
evening rise	829 Jan 18 j 23:32	12° \mathcal{A} 07'25		morning set	829 Dec 02 j 22:50	6° \mathcal{A} 10'39	
	829 Jan 29 j 05:06	0° \mathcal{H}		max. Earth dist.	829 Dec 13 j 18:55	23° \mathcal{A} 11'57	1.43801 AU
asc. node	829 Jan 29 j 19:16	0° \mathcal{H} 55'14			829 Dec 18 j 00:05	0° \mathcal{B}	
evening max el	829 Feb 04 j 14:26	8° \mathcal{H} 25'02	18°08'35				
retrograde	829 Feb 11 j 07:54	11° \mathcal{H} 50'58		superior conj	829 Dec 19 j 07:41	2° \mathcal{B} 09'00	-1°50'54
evening set	829 Feb 13 j 23:47	11° \mathcal{H} 19'04		minimum elong	829 Dec 19 j 01:32	1° \mathcal{B} 43'53	1°50'30
inferior conj	829 Feb 20 j 15:57	6° \mathcal{H} 23'31	3°38'47	evening rise	830 Jan 01 j 06:35	23° \mathcal{B} 59'41	
minimum elong	829 Feb 20 j 17:44	6° \mathcal{H} 19'17	3°38'36		830 Jan 04 j 18:02	0° \mathcal{A}	
min. Earth dist.	829 Feb 23 j 20:51	3° \mathcal{H} 22'33	0.60902 AU	asc. node	830 Jan 16 j 16:17	18° \mathcal{A} 51'44	
morning rise	829 Feb 27 j 09:56	0° \mathcal{H} 34'16		evening max el	830 Jan 19 j 02:49	21° \mathcal{A} 38'38	18°11'39
	829 Feb 28 j 08:12	30° \mathcal{R} \mathcal{A}		retrograde	830 Jan 25 j 14:19	25° \mathcal{A} 04'59	
direct	829 Mar 06 j 04:30	28° \mathcal{A} 19'24		evening set	830 Jan 28 j 10:58	24° \mathcal{A} 23'04	
desc. node	829 Mar 09 j 21:05	28° \mathcal{A} 56'30		inferior conj	830 Feb 03 j 15:30	19° \mathcal{A} 07'27	3°47'26
	829 Mar 12 j 08:58	0° \mathcal{H}		minimum elong	830 Feb 03 j 15:13	19° \mathcal{A} 08'13	3°47'26
morning max el	829 Mar 20 j 09:49	6° \mathcal{H} 10'41	27°40'23	min. Earth dist.	830 Feb 06 j 07:32	16° \mathcal{A} 16'30	0.62924 AU
	829 Apr 07 j 07:36	0° \mathcal{Y}		morning rise	830 Feb 09 j 18:29	13° \mathcal{A} 06'49	
morning set	829 Apr 21 j 18:25	26° \mathcal{Y} 40'31		direct	830 Feb 16 j 18:01	10° \mathcal{A} 26'00	
	829 Apr 23 j 08:47	0° \mathcal{B}		desc. node	830 Feb 24 j 18:08	13° \mathcal{A} 20'29	
asc. node	829 Apr 27 j 18:34	9° \mathcal{B} 27'12		morning max el	830 Mar 02 j 16:11	18° \mathcal{A} 20'15	27°46'10
max. Earth dist.	829 Apr 27 j 22:21	9° \mathcal{B} 47'48	1.32365 AU		830 Mar 12 j 12:05	0° \mathcal{H}	
					830 Mar 31 j 03:14	0° \mathcal{Y}	
superior conj	829 Apr 29 j 00:45	12° \mathcal{B} 12'04	0°13'17	morning set	830 Apr 05 j 18:55	10° \mathcal{Y} 57'14	
minimum elong	829 Apr 29 j 00:09	12° \mathcal{B} 08'45	0°13'10	max. Earth dist.	830 Apr 11 j 05:29	22° \mathcal{Y} 14'49	1.32837 AU
behind sun begin	829 Apr 28 j 21:19	11° \mathcal{B} 53'14					
behind sun end	829 Apr 29 j 02:59	12° \mathcal{B} 24'16		superior conj	830 Apr 13 j 09:30	26° \mathcal{Y} 53'56	-0°13'14
evening rise	829 May 05 j 22:12	27° \mathcal{B} 10'04		minimum elong	830 Apr 13 j 10:08	26° \mathcal{Y} 57'22	0°13'06
	829 May 07 j 06:33	0° \mathbb{I}		behind sun begin	830 Apr 13 j 07:09	26° \mathcal{Y} 41'15	
	829 May 24 j 11:40	0° \mathcal{E}		behind sun end	830 Apr 13 j 13:07	27° \mathcal{Y} 13'29	
evening max el	829 Jun 01 j 12:22	9° \mathcal{E} 22'08	25°10'27	asc. node	830 Apr 14 j 15:36	29° \mathcal{Y} 36'45	
desc. node	829 Jun 05 j 20:22	12° \mathcal{E} 58'41			830 Apr 14 j 19:53	0° \mathcal{B}	
retrograde	829 Jun 15 j 12:38	16° \mathcal{E} 30'07		evening rise	830 Apr 20 j 10:00	12° \mathcal{B} 02'11	
evening set	829 Jun 20 j 23:37	15° \mathcal{E} 21'14			830 Apr 29 j 14:10	0° \mathbb{I}	
min. Earth dist.	829 Jun 26 j 00:02	12° \mathcal{E} 35'38	0.57682 AU	evening max el	830 May 14 j 02:35	19° \mathbb{I} 59'03	23°38'03
inferior conj	829 Jun 29 j 02:19	10° \mathcal{E} 29'21	-4°47'51	desc. node	830 May 23 j 17:23	26° \mathbb{I} 12'28	
minimum elong	829 Jun 29 j 00:27	10° \mathcal{E} 32'33	4°47'45	retrograde	830 May 27 j 19:01	26° \mathbb{I} 50'07	
morning rise	829 Jul 07 j 03:57	6° \mathcal{E} 16'39		evening set	830 May 31 j 18:42	26° \mathbb{I} 15'06	
direct	829 Jul 09 j 17:26	5° \mathcal{E} 57'10		min. Earth dist.	830 Jun 07 j 13:10	23° \mathbb{I} 05'38	0.56034 AU
morning max el	829 Jul 18 j 11:20	10° \mathcal{E} 03'02	19°01'49	inferior conj	830 Jun 09 j 17:12	21° \mathbb{I} 47'24	-4°10'37
asc. node	829 Jul 24 j 17:48	17° \mathcal{E} 50'10		minimum elong	830 Jun 09 j 10:42	21° \mathbb{I} 57'15	4°09'22

morning rise	830 Jun 18 j 05:25	17° Π 50'35			831 May 25 j 08:40	30° \mathbb{R} \mathcal{B}	
direct	830 Jun 20 j 22:15	17° Π 32'18		morning rise	831 May 29 j 13:06	28° \mathcal{B} 33'29	
morning max el	830 Jul 01 j 04:05	22° Π 16'48	20°05'57	direct	831 Jun 01 j 12:27	28° \mathcal{B} 13'44	
	830 Jul 07 j 14:21	0° \mathcal{B}			831 Jun 08 j 05:07	0° Π	
asc. node	830 Jul 11 j 14:50	6° \mathcal{B} 26'54		morning max el	831 Jun 13 j 09:32	3° Π 47'36	21°29'40
morning set	830 Jul 19 j 09:18	21° \mathcal{B} 18'34		asc. node	831 Jun 28 j 11:53	25° Π 36'46	
	830 Jul 23 j 15:17	0° Ω			831 Jun 30 j 18:00	0° \mathcal{B}	
				morning set	831 Jul 03 j 17:51	6° \mathcal{B} 05'28	
superior conj	830 Jul 27 j 03:23	7° Ω 06'46	1°46'04	superior conj	831 Jul 11 j 02:09	21° \mathcal{B} 29'20	1°39'56
minimum elong	830 Jul 27 j 02:51	7° Ω 04'02	1°46'03	minimum elong	831 Jul 11 j 00:23	21° \mathcal{B} 20'13	1°39'48
max. Earth dist.	830 Aug 01 j 12:15	17° Ω 38'06	1.36743 AU	max. Earth dist.	831 Jul 15 j 00:17	29° \mathcal{B} 31'26	1.35089 AU
evening rise	830 Aug 05 j 09:48	24° Ω 54'02			831 Jul 15 j 05:59	0° Ω	
	830 Aug 08 j 06:09	0° \mathbb{M}		evening rise	831 Jul 19 j 09:49	8° Ω 08'42	
desc. node	830 Aug 19 j 16:44	18° \mathbb{M} 47'53			831 Jul 31 j 20:30	0° \mathbb{M}	
	830 Aug 27 j 09:23	0° $\underline{\Omega}$		desc. node	831 Aug 06 j 13:45	8° \mathbb{M} 49'07	
evening max el	830 Sep 10 j 05:06	16° $\underline{\Omega}$ 37'27	25°48'13		831 Aug 23 j 11:44	0° $\underline{\Omega}$	
retrograde	830 Sep 22 j 13:34	23° $\underline{\Omega}$ 40'58		evening max el	831 Aug 23 j 17:17	0° $\underline{\Omega}$ 13'25	26°44'47
evening set	830 Sep 28 j 16:25	21° $\underline{\Omega}$ 07'10		retrograde	831 Sep 05 j 17:44	7° $\underline{\Omega}$ 28'20	
min. Earth dist.	830 Oct 02 j 23:49	16° $\underline{\Omega}$ 25'03	0.66797 AU	evening set	831 Sep 12 j 09:44	4° $\underline{\Omega}$ 45'13	
inferior conj	830 Oct 04 j 06:12	14° $\underline{\Omega}$ 48'39	-1°08'20	min. Earth dist.	831 Sep 16 j 09:54	0° $\underline{\Omega}$ 40'04	0.65836 AU
minimum elong	830 Oct 04 j 07:57	14° $\underline{\Omega}$ 43'05	1°07'35		831 Sep 16 j 23:34	30° \mathbb{R} \mathbb{M}	
asc. node	830 Oct 07 j 14:02	10° $\underline{\Omega}$ 53'52		inferior conj	831 Sep 18 j 04:14	28° \mathbb{M} 34'57	-2°05'24
morning rise	830 Oct 09 j 23:47	8° $\underline{\Omega}$ 54'16		minimum elong	831 Sep 18 j 07:29	28° \mathbb{M} 25'20	2°04'08
direct	830 Oct 13 j 05:42	7° $\underline{\Omega}$ 53'30		morning rise	831 Sep 24 j 05:45	22° \mathbb{M} 52'19	
morning max el	830 Oct 20 j 05:58	11° $\underline{\Omega}$ 49'53	19°08'48	asc. node	831 Sep 24 j 11:04	22° \mathbb{M} 45'28	
	830 Nov 02 j 14:08	0° \mathbb{M}		direct	831 Sep 27 j 03:13	22° \mathbb{M} 05'37	
morning set	830 Nov 12 j 03:28	14° \mathbb{M} 49'41		morning max el	831 Oct 03 j 17:59	25° \mathbb{M} 43'06	18°26'07
desc. node	830 Nov 15 j 16:01	20° \mathbb{M} 19'54			831 Oct 07 j 09:18	0° $\underline{\Omega}$	
	830 Nov 21 j 20:16	0° \mathcal{A}		morning set	831 Oct 23 j 10:08	24° $\underline{\Omega}$ 49'09	
max. Earth dist.	830 Nov 26 j 10:04	7° \mathcal{A} 11'30	1.44801 AU		831 Oct 26 j 15:20	0° \mathbb{M}	
				desc. node	831 Nov 02 j 13:03	11° \mathbb{M} 01'10	
superior conj	830 Nov 28 j 20:06	11° \mathcal{A} 00'45	-1°20'12	superior conj	831 Nov 07 j 20:50	19° \mathbb{M} 25'41	-0°34'46
minimum elong	830 Nov 28 j 11:36	10° \mathcal{A} 27'04	1°19'17	minimum elong	831 Nov 07 j 16:18	19° \mathbb{M} 07'49	0°34'10
	830 Dec 10 j 15:51	0° \mathcal{B}		max. Earth dist.	831 Nov 09 j 04:51	21° \mathbb{M} 31'34	1.45082 AU
evening rise	830 Dec 13 j 16:00	4° \mathcal{B} 55'14			831 Nov 14 j 14:25	0° \mathcal{A}	
	830 Dec 29 j 11:32	0° \approx		evening rise	831 Nov 24 j 01:48	14° \mathcal{A} 53'18	
evening max el	831 Jan 02 j 14:52	5° \approx 01'29	18°33'18		831 Dec 03 j 16:34	0° \mathcal{B}	
asc. node	831 Jan 03 j 13:19	5° \approx 55'38		greatest brilliancy	831 Dec 04 j 03:09	0° \mathcal{B} 41'06	-0.8m
retrograde	831 Jan 09 j 05:03	8° \approx 40'02		evening max el	831 Dec 17 j 00:14	18° \mathcal{B} 28'51	19°12'20
evening set	831 Jan 12 j 07:01	7° \approx 47'00		asc. node	831 Dec 21 j 10:21	21° \mathcal{B} 52'55	
inferior conj	831 Jan 18 j 03:07	2° \approx 12'54	3°37'29	retrograde	831 Dec 24 j 00:40	22° \mathcal{B} 29'50	
minimum elong	831 Jan 18 j 01:20	2° \approx 18'09	3°37'17	evening set	831 Dec 27 j 09:06	21° \mathcal{B} 24'24	
min. Earth dist.	831 Jan 20 j 03:44	29° \mathcal{B} 49'17	0.64652 AU	inferior conj	832 Jan 01 j 23:23	15° \mathcal{B} 34'00	3°13'59
	831 Jan 20 j 00:02	30° \mathbb{R} \mathcal{B}		minimum elong	832 Jan 01 j 20:50	15° \mathcal{B} 42'10	3°13'27
morning rise	831 Jan 23 j 19:12	26° \mathcal{B} 05'42		min. Earth dist.	832 Jan 03 j 08:54	13° \mathcal{B} 47'09	0.65994 AU
direct	831 Jan 30 j 14:49	23° \mathcal{B} 13'52		morning rise	832 Jan 07 j 08:19	9° \mathcal{B} 22'55	
desc. node	831 Feb 11 j 15:10	29° \mathcal{B} 39'09		direct	832 Jan 13 j 17:46	6° \mathcal{B} 34'14	
	831 Feb 12 j 00:00	0° \approx		morning max el	832 Jan 26 j 10:52	14° \mathcal{B} 04'20	26°18'53
morning max el	831 Feb 13 j 01:18	1° \approx 01'50	27°16'52	desc. node	832 Jan 29 j 12:13	17° \mathcal{B} 20'23	
	831 Mar 06 j 13:51	0° \mathcal{H}			832 Feb 08 j 10:36	0° \approx	
morning set	831 Mar 20 j 10:47	24° \mathcal{H} 44'19		morning set	832 Feb 27 j 07:21	0° \mathcal{H}	
	831 Mar 23 j 02:32	0° \mathcal{Y}		max. Earth dist.	832 Mar 02 j 14:14	7° \mathcal{H} 49'49	
max. Earth dist.	831 Mar 25 j 04:09	4° \mathcal{Y} 12'15	1.33737 AU		832 Mar 06 j 15:40	15° \mathcal{H} 36'34	1.35097 AU
				superior conj	832 Mar 11 j 11:46	25° \mathcal{H} 18'23	-1°07'22
superior conj	831 Mar 28 j 13:57	11° \mathcal{Y} 18'38	-0°40'32	minimum elong	832 Mar 11 j 15:00	25° \mathcal{H} 34'58	1°06'49
minimum elong	831 Mar 28 j 15:56	11° \mathcal{Y} 29'09	0°40'08		832 Mar 13 j 18:27	0° \mathcal{Y}	
asc. node	831 Apr 01 j 12:38	19° \mathcal{Y} 41'54		asc. node	832 Mar 18 j 09:40	9° \mathcal{Y} 37'48	
evening rise	831 Apr 04 j 20:57	26° \mathcal{Y} 47'13		evening rise	832 Mar 19 j 05:07	11° \mathcal{Y} 18'11	
	831 Apr 06 j 10:04	0° \mathcal{B}			832 Mar 29 j 02:28	0° \mathcal{B}	
	831 Apr 25 j 05:37	0° Π		evening max el	832 Apr 06 j 22:11	11° \mathcal{B} 35'58	20°38'32
evening max el	831 Apr 25 j 19:51	0° Π 35'10	22°03'17	retrograde	832 Apr 18 j 01:56	16° \mathcal{B} 59'55	
retrograde	831 May 08 j 12:59	6° Π 49'53		evening set	832 Apr 20 j 05:09	16° \mathcal{B} 48'52	
desc. node	831 May 10 j 14:23	6° Π 40'25		desc. node	832 Apr 26 j 11:24	14° \mathcal{B} 29'55	
evening set	831 May 11 j 06:31	6° Π 33'21		inferior conj	832 Apr 29 j 10:20	12° \mathcal{B} 51'11	-0°51'14
min. Earth dist.	831 May 20 j 01:29	2° Π 48'13	0.55088 AU				
inferior conj	831 May 20 j 16:08	2° Π 27'40	-2°46'54				
minimum elong	831 May 20 j 09:05	2° Π 37'34	2°44'44				

minimum elong	832 Apr 29 j 07:54	12°♄54'41	0°50'21	inferior conj	833 Apr 09 j 14:28	23°♄30'06	1°03'22
min. Earth dist.	832 Apr 30 j 14:17	12°♄11'01	0.55064 AU	minimum elong	833 Apr 09 j 17:03	23°♄25'56	1°02'29
morning rise	832 May 08 j 09:51	8°♄40'55		min. Earth dist.	833 Apr 12 j 04:48	21°♄50'20	0.55979 AU
direct	832 May 11 j 23:01	8°♄13'47		desc. node	833 Apr 13 j 08:26	21°♄08'15	
morning max el	832 May 25 j 05:16	14°♄38'36	23°07'35	morning rise	833 Apr 18 j 06:08	18°♄48'11	
	832 Jun 06 j 02:22	0°♄		direct	833 Apr 22 j 18:15	18°♄02'23	
asc. node	832 Jun 14 j 08:56	15°♄10'28		morning max el	833 May 06 j 20:13	25°♄08'46	24°48'33
morning set	832 Jun 17 j 04:58	21°♄00'40			833 May 11 j 08:30	0°♄	
	832 Jun 21 j 10:11	0°♄			833 May 29 j 19:31	0°♄	
				asc. node	833 Jun 01 j 06:00	5°♄01'16	
superior conj	832 Jun 24 j 07:24	6°♄11'28	1°28'00	morning set	833 Jun 01 j 16:55	5°♄58'35	
minimum elong	832 Jun 24 j 05:03	5°♄58'51	1°27'44				
max. Earth dist.	832 Jun 26 j 21:46	11°♄42'02	1.33804 AU	superior conj	833 Jun 08 j 16:45	21°♄05'19	1°11'26
evening rise	832 Jul 01 j 23:11	22°♄02'47		minimum elong	833 Jun 08 j 14:20	20°♄52'08	1°11'04
	832 Jul 06 j 02:11	0°♄		max. Earth dist.	833 Jun 10 j 03:22	24°♄13'10	1.32910 AU
desc. node	832 Jul 23 j 10:46	28°♄21'39			833 Jun 12 j 20:08	0°♄	
	832 Jul 24 j 15:15	0°♄		evening rise	833 Jun 15 j 22:06	6°♄25'04	
evening max el	832 Aug 05 j 05:03	13°♄35'58	27°18'43		833 Jun 28 j 15:23	0°♄	
retrograde	832 Aug 18 j 16:09	20°♄54'37		desc. node	833 Jul 10 j 07:46	17°♄13'27	
evening set	832 Aug 25 j 17:57	18°♄10'37		evening max el	833 Jul 18 j 14:29	26°♄32'28	27°23'49
min. Earth dist.	832 Aug 29 j 11:43	14°♄41'33	0.64510 AU		833 Jul 22 j 16:31	0°♄	
inferior conj	832 Aug 31 j 18:58	12°♄12'29	-3°00'48	retrograde	833 Aug 01 j 08:34	3°♄50'37	
minimum elong	832 Aug 31 j 23:28	12°♄00'18	2°59'19	evening set	833 Aug 08 j 13:39	1°♄17'47	
morning rise	832 Sep 07 j 05:51	6°♄44'59			833 Aug 10 j 06:13	30°♄	
direct	832 Sep 09 j 21:14	6°♄08'54		min. Earth dist.	833 Aug 12 j 03:39	28°♄19'11	0.62832 AU
asc. node	832 Sep 10 j 08:08	6°♄09'59		inferior conj	833 Aug 14 j 23:36	25°♄34'54	-3°51'04
morning max el	832 Sep 16 j 09:21	9°♄36'16	18°00'26	minimum elong	833 Aug 15 j 04:38	25°♄22'43	3°49'49
	832 Sep 30 j 05:14	0°♄		morning rise	833 Aug 21 j 20:55	20°♄25'50	
morning set	832 Oct 03 j 21:16	6°♄11'54		direct	833 Aug 24 j 08:43	19°♄57'13	
				asc. node	833 Aug 28 j 05:13	21°♄07'14	
superior conj	832 Oct 17 j 07:48	28°♄25'22	0°13'57	morning max el	833 Aug 31 j 01:11	23°♄22'58	17°52'30
minimum elong	832 Oct 17 j 09:26	28°♄31'57	0°13'43		833 Sep 05 j 06:55	0°♄	
behind sun begin	832 Oct 17 j 03:50	28°♄09'23		morning set	833 Sep 16 j 07:40	18°♄41'14	
behind sun end	832 Oct 17 j 15:02	28°♄54'31			833 Sep 22 j 18:03	0°♄	
	832 Oct 18 j 07:21	0°♄					
desc. node	832 Oct 19 j 10:06	1°♄47'06		superior conj	833 Sep 27 j 19:44	8°♄39'52	0°54'58
max. Earth dist.	832 Oct 21 j 23:41	5°♄52'06	1.44619 AU	minimum elong	833 Sep 28 j 00:24	8°♄59'27	0°54'23
evening rise	832 Nov 02 j 16:00	24°♄06'05		max. Earth dist.	833 Oct 04 j 15:00	19°♄52'48	1.43484 AU
	832 Nov 06 j 12:06	0°♄		desc. node	833 Oct 06 j 07:07	22°♄34'11	
greatest brilliancy	832 Nov 16 j 19:40	15°♄34'53	-0.6m		833 Oct 10 j 23:45	0°♄	
	832 Nov 27 j 10:04	0°♄		evening rise	833 Oct 12 j 23:32	3°♄06'05	
evening max el	832 Nov 29 j 04:59	1°♄57'43	20°07'00		833 Oct 31 j 00:27	0°♄	
retrograde	832 Dec 06 j 22:23	6°♄29'41		evening max el	833 Nov 12 j 04:03	15°♄26'32	21°14'39
asc. node	832 Dec 07 j 07:23	6°♄28'54		retrograde	833 Nov 20 j 19:53	20°♄35'19	
evening set	832 Dec 10 j 14:54	5°♄10'21		asc. node	833 Nov 24 j 04:28	19°♄32'12	
	832 Dec 15 j 09:31	30°♄		evening set	833 Nov 24 j 22:25	19°♄00'28	
inferior conj	832 Dec 16 j 01:31	29°♄06'33	2°40'24	inferior conj	833 Nov 30 j 07:10	12°♄46'37	1°59'00
minimum elong	832 Dec 15 j 22:48	29°♄15'40	2°39'36	minimum elong	833 Nov 30 j 04:48	12°♄54'45	1°58'09
min. Earth dist.	832 Dec 16 j 21:28	27°♄59'36	0.66935 AU	min. Earth dist.	833 Nov 30 j 15:09	12°♄19'05	0.67504 AU
morning rise	832 Dec 21 j 06:32	22°♄53'28		morning rise	833 Dec 05 j 11:01	6°♄33'26	
direct	832 Dec 27 j 02:16	20°♄18'24		direct	833 Dec 10 j 15:41	4°♄18'16	
morning max el	833 Jan 07 j 19:40	27°♄17'33	25°01'19	morning max el	833 Dec 21 j 04:25	10°♄34'44	23°34'06
	833 Jan 10 j 08:48	0°♄		desc. node	834 Jan 02 j 06:20	25°♄21'01	
desc. node	833 Jan 15 j 09:16	6°♄00'12			834 Jan 05 j 14:06	0°♄	
	833 Feb 01 j 02:31	0°♄			834 Jan 24 j 21:08	0°♄	
morning set	833 Feb 13 j 00:15	19°♄59'46		morning set	834 Jan 25 j 10:31	0°♄56'36	
max. Earth dist.	833 Feb 16 j 16:24	26°♄40'43	1.36882 AU	max. Earth dist.	834 Jan 29 j 11:17	7°♄53'52	1.38955 AU
	833 Feb 18 j 11:01	0°♄					
				superior conj	834 Feb 05 j 22:43	21°♄28'08	-1°51'24
superior conj	833 Feb 23 j 00:00	8°♄45'12	-1°31'51	minimum elong	834 Feb 06 j 02:22	21°♄45'14	1°51'06
minimum elong	833 Feb 23 j 04:00	9°♄04'52	1°31'20		834 Feb 10 j 10:18	0°♄	
evening rise	833 Mar 03 j 08:18	25°♄28'39		evening rise	834 Feb 15 j 03:45	9°♄10'25	
asc. node	833 Mar 05 j 06:43	29°♄19'58		asc. node	834 Feb 20 j 03:46	18°♄42'17	
	833 Mar 05 j 14:50	0°♄			834 Feb 26 j 22:20	0°♄	
evening max el	833 Mar 20 j 11:59	23°♄15'03	19°30'59	evening max el	834 Mar 03 j 12:00	5°♄31'11	18°43'17
retrograde	833 Mar 29 j 22:46	27°♄48'02		retrograde	834 Mar 11 j 12:22	9°♄25'09	
evening set	833 Apr 01 j 01:16	27°♄35'29		evening set	834 Mar 13 j 19:57	9°♄06'51	

inferior conj	834 Mar 21 j 13:52	4°♈44'27	2°30'21	evening set	835 Feb 24 j 09:46	21°♏21'15	
minimum elong	834 Mar 21 j 18:05	4°♈36'33	2°29'15	inferior conj	835 Mar 03 j 10:18	16°♏38'02	3°22'39
min. Earth dist.	834 Mar 24 j 22:03	2°♈15'39	0.57629 AU	minimum elong	835 Mar 03 j 13:18	16°♏31'28	3°22'11
	834 Mar 28 j 12:24	30°♏		min. Earth dist.	835 Mar 06 j 19:51	13°♏41'36	0.59681 AU
morning rise	834 Mar 29 j 13:10	29°♏29'41		morning rise	835 Mar 10 j 14:34	10°♏58'59	
desc. node	834 Mar 31 j 05:29	28°♏50'26		direct	835 Mar 17 j 02:00	9°♏03'46	
direct	834 Apr 04 j 03:42	28°♏12'02		desc. node	835 Mar 18 j 02:32	9°♏06'34	
	834 Apr 10 j 21:30	0°♈		morning max el	835 Mar 31 j 09:18	16°♏50'11	27°20'04
morning max el	834 Apr 18 j 12:13	5°♈44'52	26°17'29		835 Apr 11 j 05:49	0°♈	
	834 May 06 j 07:12	0°♏			835 Apr 28 j 18:11	0°♏	
morning set	834 May 17 j 04:04	20°♏53'36		morning set	835 May 01 j 12:40	5°♏39'16	
asc. node	834 May 19 j 03:04	25°♏03'31		asc. node	835 May 06 j 00:05	15°♏12'03	
	834 May 21 j 09:46	0°♏		max. Earth dist.	835 May 08 j 02:47	19°♏49'14	1.32270 AU
superior conj	834 May 24 j 04:10	6°♏04'05	0°51'07	superior conj	835 May 08 j 15:52	21°♏01'04	0°27'49
minimum elong	834 May 24 j 02:10	5°♏53'02	0°50'45	minimum elong	835 May 08 j 14:40	20°♏54'24	0°27'33
max. Earth dist.	834 May 24 j 14:14	6°♏59'21	1.32401 AU		835 May 12 j 18:18	0°♏	
evening rise	834 May 31 j 03:31	21°♏06'10		evening rise	835 May 15 j 13:01	5°♏57'23	
	834 Jun 04 j 13:09	0°♏			835 May 28 j 05:34	0°♏	
	834 Jun 22 j 22:56	0°♏		evening max el	835 Jun 12 j 17:32	20°♏25'19	25°56'45
desc. node	834 Jun 27 j 04:47	5°♏07'36		desc. node	835 Jun 14 j 01:49	21°♏39'21	
evening max el	834 Jun 30 j 19:20	8°♏51'44	26°56'19	retrograde	835 Jun 26 j 18:18	27°♏36'30	
retrograde	834 Jul 14 j 17:59	16°♏07'13		evening set	835 Jul 02 j 21:58	26°♏05'20	
evening set	834 Jul 21 j 16:35	13°♏59'35		min. Earth dist.	835 Jul 07 j 06:08	23°♏26'45	0.58817 AU
min. Earth dist.	834 Jul 25 j 09:25	11°♏19'29	0.60875 AU	inferior conj	835 Jul 10 j 13:11	21°♏00'50	-4°50'19
inferior conj	834 Jul 28 j 14:55	8°♏34'37	-4°30'34	minimum elong	835 Jul 10 j 14:05	20°♏59'10	4°50'18
minimum elong	834 Jul 28 j 18:59	8°♏25'55	4°29'58	morning rise	835 Jul 18 j 08:29	16°♏35'16	
morning rise	834 Aug 04 j 23:11	3°♏46'36		direct	835 Jul 20 j 20:32	16°♏14'31	
direct	834 Aug 07 j 09:54	3°♏22'53		morning max el	835 Jul 28 j 21:54	20°♏04'56	18°34'23
morning max el	834 Aug 14 j 14:27	6°♏55'52	18°03'24	asc. node	835 Aug 01 j 23:20	24°♏48'09	
asc. node	834 Aug 15 j 02:18	7°♏25'26			835 Aug 05 j 10:07	0°♏	
	834 Aug 29 j 09:17	0°♏		morning set	835 Aug 14 j 03:13	15°♏55'56	
morning set	834 Aug 30 j 11:20	2°♏00'48			835 Aug 21 j 10:40	0°♏	
superior conj	834 Sep 09 j 10:39	20°♏14'19	1°23'41	superior conj	835 Aug 22 j 23:47	2°♏54'29	1°40'13
minimum elong	834 Sep 09 j 14:57	20°♏33'20	1°23'15	minimum elong	835 Aug 23 j 02:13	3°♏05'49	1°40'04
	834 Sep 15 j 01:40	0°♏		max. Earth dist.	835 Aug 30 j 06:32	16°♏04'54	1.39866 AU
max. Earth dist.	834 Sep 17 j 01:11	3°♏19'57	1.41829 AU	evening rise	835 Sep 03 j 11:25	23°♏16'53	
evening rise	834 Sep 22 j 18:15	12°♏40'10			835 Sep 07 j 13:18	0°♏	
desc. node	834 Sep 23 j 04:09	13°♏19'41		desc. node	835 Sep 10 j 01:10	3°♏59'16	
	834 Oct 03 j 23:59	0°♏			835 Sep 27 j 21:41	0°♏	
evening max el	834 Oct 25 j 21:45	28°♏57'22	22°31'12	evening max el	835 Oct 08 j 11:31	12°♏31'14	23°51'17
	834 Oct 26 j 23:19	0°♏		retrograde	835 Oct 19 j 07:36	18°♏53'57	
retrograde	834 Nov 04 j 15:25	4°♏44'34		evening set	835 Oct 24 j 11:50	16°♏44'31	
evening set	834 Nov 09 j 05:57	2°♏52'46		asc. node	835 Oct 28 j 22:32	11°♏39'04	
asc. node	834 Nov 11 j 01:30	1°♏06'44		inferior conj	835 Oct 29 j 21:17	10°♏21'55	0°19'35
	834 Nov 12 j 00:11	30°♏		minimum elong	835 Oct 29 j 20:49	10°♏23'31	0°19'23
inferior conj	834 Nov 14 j 14:21	26°♏32'36	1°11'36	min. Earth dist.	835 Oct 29 j 07:57	11°♏07'13	0.67635 AU
minimum elong	834 Nov 14 j 12:46	26°♏38'05	1°10'57	morning rise	835 Nov 04 j 05:46	4°♏15'19	
min. Earth dist.	834 Nov 14 j 11:28	26°♏42'35	0.67735 AU	direct	835 Nov 08 j 05:46	2°♏44'49	
morning rise	834 Nov 19 j 19:27	20°♏21'28		morning max el	835 Nov 16 j 10:27	7°♏30'01	20°47'32
direct	834 Nov 24 j 09:15	18°♏28'47			835 Dec 03 j 09:44	0°♏	
morning max el	834 Dec 03 j 16:13	23°♏57'37	22°06'57	desc. node	835 Dec 07 j 00:26	5°♏23'15	
	834 Dec 08 j 23:37	0°♏		morning set	835 Dec 15 j 19:33	18°♏51'16	
desc. node	834 Dec 20 j 03:23	15°♏11'31			835 Dec 22 j 20:36	0°♏	
	834 Dec 30 j 00:35	0°♏		max. Earth dist.	835 Dec 24 j 13:23	2°♏44'38	1.42947 AU
morning set	835 Jan 05 j 15:52	10°♏28'42		superior conj	835 Dec 31 j 07:45	13°♏55'16	-2°00'01
max. Earth dist.	835 Jan 11 j 08:28	19°♏50'18	1.41077 AU	minimum elong	835 Dec 31 j 04:34	13°♏41'53	1°59'55
	835 Jan 17 j 06:43	0°♏			836 Jan 09 j 15:10	0°♏	
superior conj	835 Jan 19 j 03:04	3°♏15'35	-2°02'20	evening rise	836 Jan 12 j 05:42	4°♏37'02	
minimum elong	835 Jan 19 j 04:26	3°♏21'40	2°02'18	asc. node	836 Jan 24 j 21:49	25°♏59'13	
evening rise	835 Jan 29 j 12:11	22°♏15'52			836 Jan 28 j 00:01	0°♏	
	835 Feb 02 j 16:33	0°♏		evening max el	836 Jan 29 j 06:42	1°♏22'07	18°07'38
asc. node	835 Feb 07 j 00:48	7°♏38'08		retrograde	836 Feb 04 j 20:17	4°♏46'25	
evening max el	835 Feb 14 j 19:19	18°♏16'35	18°15'38	evening set	836 Feb 07 j 14:19	4°♏10'11	
retrograde	835 Feb 21 j 20:35	21°♏47'53			836 Feb 13 j 03:12	30°♏	

inferior conj	836 Feb 14 j 01:04	29° \approx 05'48	3°45'07		837 Jan 01 j 10:27	0° \approx	
minimum elong	836 Feb 14 j 01:56	29° \approx 03'39	3°45'05	asc. node	837 Jan 10 j 18:51	13° \approx 34'45	
min. Earth dist.	836 Feb 17 j 01:00	26° \approx 06'49	0.61787 AU	evening max el	837 Jan 11 j 19:12	14° \approx 39'51	18°18'37
morning rise	836 Feb 20 j 12:13	23° \approx 11'18		retrograde	837 Jan 18 j 06:50	18° \approx 10'14	
direct	836 Feb 27 j 10:13	20° \approx 43'55		evening set	837 Jan 21 j 05:39	17° \approx 23'38	
desc. node	836 Mar 03 j 23:34	22° \approx 08'11		inferior conj	837 Jan 27 j 06:12	11° \approx 59'36	3°45'10
morning max el	836 Mar 12 j 12:39	28° \approx 36'29	27°47'32	minimum elong	837 Jan 27 j 05:12	12° \approx 02'25	3°45'07
	836 Mar 13 j 21:20	0° X		min. Earth dist.	837 Jan 29 j 15:38	9° \approx 18'53	0.63696 AU
	836 Apr 04 j 01:05	0° Y		morning rise	837 Feb 02 j 04:02	5° \approx 55'40	
morning set	836 Apr 14 j 16:48	20° Y 09'03		direct	837 Feb 09 j 02:40	3° \approx 08'41	
	836 Apr 19 j 09:27	0° Z		desc. node	837 Feb 18 j 20:37	7° \approx 25'09	
max. Earth dist.	836 Apr 20 j 13:14	2° Z 29'42	1.32517 AU	morning max el	837 Feb 22 j 20:40	11° \approx 01'17	27°37'54
asc. node	836 Apr 21 j 21:07	5° Z 22'42			837 Mar 09 j 20:39	0° X	
					837 Mar 27 j 10:09	0° Y	
superior conj	836 Apr 22 j 02:12	5° Z 50'24	0°02'15	morning set	837 Mar 29 j 14:00	4° Y 14'03	
minimum elong	836 Apr 22 j 02:06	5° Z 49'49	0°02'14	max. Earth dist.	837 Apr 03 j 17:26	14° Y 46'01	1.33165 AU
behind sun begin	836 Apr 21 j 21:01	5° Z 22'10					
behind sun end	836 Apr 22 j 07:10	6° Z 17'29		superior conj	837 Apr 06 j 09:19	20° Y 25'10	-0°24'46
evening rise	836 Apr 29 j 00:32	20° Z 51'34		minimum elong	837 Apr 06 j 10:32	20° Y 31'38	0°24'31
	836 May 03 j 11:23	0° II		asc. node	837 Apr 08 j 18:09	25° Y 30'40	
	836 May 23 j 02:25	0° III			837 Apr 10 j 20:10	0° Z	
evening max el	836 May 24 j 09:26	1° III 17'25	24°32'28	evening rise	837 Apr 13 j 12:10	5° Z 41'08	
desc. node	836 May 30 j 22:48	6° III 16'30			837 Apr 26 j 14:08	0° II	
retrograde	836 Jun 07 j 07:23	8° III 19'26		evening max el	837 May 05 j 23:48	11° II 48'57	22°57'09
evening set	836 Jun 12 j 04:03	7° III 26'20		desc. node	837 May 17 j 19:48	18° II 22'17	
min. Earth dist.	836 Jun 17 j 20:38	4° III 32'19	0.56926 AU	retrograde	837 May 19 j 08:14	18° II 27'32	
inferior conj	836 Jun 20 j 15:36	2° III 44'53	-4°37'39	evening set	837 May 22 j 17:50	18° II 02'09	
minimum elong	836 Jun 20 j 11:33	2° III 51'26	4°37'12	min. Earth dist.	837 May 30 j 08:47	14° II 39'14	0.55530 AU
	836 Jun 25 j 07:44	30° R II		inferior conj	837 May 31 j 22:40	13° II 44'28	-3°40'33
morning rise	836 Jun 28 j 21:48	28° II 39'59		minimum elong	837 May 31 j 15:12	13° II 55'17	3°38'43
direct	836 Jul 01 j 12:47	28° II 21'01		morning rise	837 Jun 09 j 15:05	9° II 51'20	
	836 Jul 07 j 07:21	0° III		direct	837 Jun 12 j 10:06	9° II 32'56	
morning max el	836 Jul 10 j 20:39	2° III 41'16	19°26'25	morning max el	837 Jun 23 j 08:38	14° II 36'54	20°39'25
asc. node	836 Jul 18 j 20:22	13° III 01'27			837 Jul 04 j 16:00	0° III	
morning set	836 Jul 28 j 03:38	0° III 16'44		asc. node	837 Jul 05 j 17:25	1° III 53'13	
	836 Jul 28 j 00:17	0° III		morning set	837 Jul 12 j 09:50	14° III 55'42	
superior conj	836 Aug 05 j 05:33	16° III 24'52	1°46'24	superior conj	837 Jul 19 j 23:12	0° III 31'46	1°44'15
minimum elong	836 Aug 05 j 05:58	16° III 26'57	1°46'23	minimum elong	837 Jul 19 j 22:04	0° III 26'00	1°44'13
max. Earth dist.	836 Aug 11 j 10:09	28° III 12'19	1.37844 AU		837 Jul 19 j 16:59	0° III	
	836 Aug 12 j 09:37	0° IV		max. Earth dist.	837 Jul 24 j 17:25	10° III 02'20	1.35998 AU
evening rise	836 Aug 15 j 04:49	5° IV 01'52		evening rise	837 Jul 28 j 19:00	17° III 47'12	
desc. node	836 Aug 26 j 22:10	24° IV 28'26			837 Aug 04 j 15:33	0° IV	
	836 Aug 30 j 13:19	0° V		desc. node	837 Aug 13 j 19:09	14° IV 41'52	
evening max el	836 Sep 19 j 23:24	26° V 08'18	25°08'12		837 Aug 24 j 19:17	0° V	
	836 Sep 24 j 10:29	0° VI		evening max el	837 Sep 02 j 11:05	9° V 46'00	26°14'28
retrograde	836 Oct 01 j 19:39	2° VI 59'30		retrograde	837 Sep 15 j 02:59	16° V 55'56	
evening set	836 Oct 07 j 14:24	0° VII 33'29		evening set	837 Sep 21 j 11:48	14° V 17'00	
	836 Oct 08 j 05:16	30° R V		min. Earth dist.	837 Sep 25 j 15:56	9° V 50'48	0.66434 AU
min. Earth dist.	836 Oct 12 j 02:12	25° V 30'57	0.67205 AU	inferior conj	837 Sep 27 j 03:23	8° V 01'26	-1°32'34
inferior conj	836 Oct 13 j 02:14	24° V 12'21	-0°35'39	minimum elong	837 Sep 27 j 05:47	7° V 54'02	1°31'35
minimum elong	836 Oct 13 j 03:08	24° V 09'25	0°35'15	asc. node	837 Oct 01 j 16:37	3° V 07'01	
asc. node	836 Oct 14 j 19:34	22° V 00'15		morning rise	837 Oct 03 j 00:11	2° V 11'57	
morning rise	836 Oct 18 j 16:00	18° V 12'57		direct	837 Oct 06 j 02:10	1° V 17'45	
direct	836 Oct 22 j 03:56	17° V 02'21		morning max el	837 Oct 12 j 21:38	5° V 04'58	18°48'39
morning max el	836 Oct 29 j 12:33	21° V 13'21	19°40'35		837 Oct 30 j 08:18	0° VI	
	836 Nov 05 j 15:39	0° VII		morning set	837 Nov 03 j 07:08	6° VI 14'39	
greatest brilliancy	836 Nov 12 j 00:33	9° VII 14'28	-0.7m	desc. node	837 Nov 09 j 18:30	16° VI 27'19	
desc. node	836 Nov 22 j 21:28	25° VII 50'02			837 Nov 18 j 09:22	0° VII	
morning set	836 Nov 23 j 16:34	27° VII 03'49		max. Earth dist.	837 Nov 18 j 19:01	0° VII 37'56	1.45008 AU
	836 Nov 25 j 14:03	0° VIII					
max. Earth dist.	836 Dec 06 j 01:54	16° VIII 27'02	1.44311 AU	superior conj	837 Nov 19 j 14:48	1° VIII 55'44	-1°02'09
				minimum elong	837 Nov 19 j 07:17	1° VIII 26'07	1°01'15
superior conj	836 Dec 10 j 09:42	23° VIII 21'50	-1°40'07	evening rise	837 Dec 05 j 03:30	26° VIII 37'20	
minimum elong	836 Dec 10 j 01:52	22° VIII 50'21	1°39'27		837 Dec 07 j 05:46	0° IX	
	836 Dec 14 j 11:51	0° IX		evening max el	837 Dec 26 j 06:19	28° IX 04'53	18°47'49
evening rise	836 Dec 24 j 04:00	16° IX 05'56			837 Dec 28 j 09:21	0° X	

asc. node	837 Dec 28 j 15:54	0° \approx 12'16		evening rise	838 Nov 15 j 03:54	6° \approx 12'54	
retrograde	838 Jan 02 j 00:11	1° \approx 52'16		greatest brilliancy	838 Nov 27 j 07:48	25° \approx 00'09	-0.7m
evening set	838 Jan 05 j 04:36	0° \approx 54'15			838 Nov 30 j 16:15	0° \approx	
	838 Jan 06 j 11:06	30° \approx		evening max el	838 Dec 09 j 13:55	11° \approx 32'59	19°33'51
inferior conj	838 Jan 10 j 21:56	25° \approx 12'48	3°28'58	asc. node	838 Dec 15 j 12:58	15° \approx 36'28	
minimum elong	838 Jan 10 j 19:45	25° \approx 19'31	3°28'36	retrograde	838 Dec 16 j 20:57	15° \approx 46'21	
min. Earth dist.	838 Jan 12 j 15:59	23° \approx 03'57	0.65268 AU	evening set	838 Dec 20 j 08:32	14° \approx 35'24	
morning rise	838 Jan 16 j 10:30	19° \approx 03'23		inferior conj	838 Dec 25 j 21:02	8° \approx 39'08	3°00'49
direct	838 Jan 23 j 02:17	16° \approx 11'17		minimum elong	838 Dec 25 j 18:21	8° \approx 47'56	3°00'08
morning max el	838 Feb 05 j 06:29	23° \approx 54'05	26°55'13	min. Earth dist.	838 Dec 27 j 00:41	7° \approx 08'47	0.66446 AU
desc. node	838 Feb 05 j 17:41	24° \approx 22'30		morning rise	838 Dec 31 j 03:55	2° \approx 26'49	
	838 Feb 10 j 18:10	0° \approx			839 Jan 04 j 06:26	30° \approx	
	838 Mar 03 j 05:13	0° \approx		direct	839 Jan 06 j 07:54	29° \approx 42'34	
morning set	838 Mar 13 j 01:06	17° \approx 44'47			839 Jan 08 j 11:43	0° \approx	
max. Earth dist.	838 Mar 17 j 11:31	26° \approx 28'18	1.34257 AU	morning max el	839 Jan 18 j 15:39	7° \approx 01'37	25°47'33
	838 Mar 19 j 05:10	0° \approx		desc. node	839 Jan 23 j 14:44	12° \approx 30'53	
					839 Feb 05 j 12:56	0° \approx	
superior conj	838 Mar 21 j 11:14	4° \approx 39'30	-0°52'05	morning set	839 Feb 23 j 21:50	0° \approx 28'33	
minimum elong	838 Mar 21 j 13:47	4° \approx 52'49	0°51'36		839 Feb 23 j 15:36	0° \approx	
asc. node	838 Mar 26 j 15:12	15° \approx 31'57		max. Earth dist.	839 Feb 27 j 17:43	7° \approx 39'16	1.35805 AU
evening rise	838 Mar 28 j 22:10	20° \approx 20'15					
	838 Apr 02 j 17:04	0° \approx		superior conj	839 Mar 05 j 05:24	18° \approx 26'20	-1°18'12
evening max el	838 Apr 17 j 20:12	22° \approx 31'54	21°25'26	minimum elong	839 Mar 05 j 09:03	18° \approx 44'43	1°17'37
retrograde	838 Apr 29 j 23:10	28° \approx 26'36			839 Mar 10 j 21:16	0° \approx	
evening set	838 May 02 j 08:08	28° \approx 13'44		evening rise	839 Mar 13 j 04:30	4° \approx 42'59	
desc. node	838 May 04 j 16:51	27° \approx 37'09		asc. node	839 Mar 13 j 12:16	5° \approx 22'33	
inferior conj	838 May 11 j 17:44	24° \approx 13'21	-2°00'00		839 Mar 27 j 17:24	0° \approx	
minimum elong	838 May 11 j 12:13	24° \approx 21'05	1°58'07	evening max el	839 Mar 31 j 03:32	3° \approx 49'01	20°07'33
min. Earth dist.	838 May 11 j 21:25	24° \approx 08'11	0.54951 AU	retrograde	839 Apr 10 j 13:34	8° \approx 49'57	
morning rise	838 May 20 j 16:51	20° \approx 14'29		evening set	839 Apr 12 j 15:14	8° \approx 38'57	
direct	838 May 23 j 20:35	19° \approx 52'46		inferior conj	839 Apr 21 j 14:36	4° \approx 40'09	-0°00'30
morning max el	838 Jun 05 j 09:38	25° \approx 49'25	22°10'13	minimum elong	839 Apr 21 j 14:34	4° \approx 40'11	0°00'30
	838 Jun 09 j 07:47	0° \approx		transit middle	839 Apr 21 j 14:34	4° \approx 40'11	0°00'30
asc. node	838 Jun 22 j 14:28	21° \approx 13'40		transit begin	839 Apr 21 j 10:34	4° \approx 46'10	
morning set	838 Jun 26 j 19:40	29° \approx 46'18		transit end	839 Apr 21 j 18:35	4° \approx 34'11	
	838 Jun 26 j 22:18	0° \approx		desc. node	839 Apr 21 j 13:54	4° \approx 41'12	
				min. Earth dist.	839 Apr 23 j 11:08	3° \approx 33'43	0.55341 AU
superior conj	838 Jul 04 j 01:03	15° \approx 03'34	1°35'30	morning rise	839 Apr 30 j 12:01	0° \approx 17'19	
minimum elong	838 Jul 03 j 22:58	14° \approx 52'36	1°35'20		839 May 01 j 16:54	30° \approx	
max. Earth dist.	838 Jul 07 j 09:01	21° \approx 59'40	1.34487 AU	direct	839 May 04 j 10:11	29° \approx 43'38	
	838 Jul 11 j 08:47	0° \approx			839 May 07 j 02:50	0° \approx	
evening rise	838 Jul 12 j 01:10	1° \approx 19'54		morning max el	839 May 18 j 02:34	6° \approx 28'31	23°51'01
	838 Jul 28 j 14:53	0° \approx			839 Jun 03 j 20:57	0° \approx	
desc. node	838 Jul 31 j 16:10	4° \approx 32'06		asc. node	839 Jun 09 j 11:31	10° \approx 55'22	
evening max el	838 Aug 15 j 23:05	23° \approx 17'15	27°02'25	morning set	839 Jun 11 j 07:21	14° \approx 43'21	
	838 Aug 25 j 19:09	0° \approx					
retrograde	838 Aug 29 j 05:02	0° \approx 35'28		superior conj	839 Jun 18 j 08:20	29° \approx 11'48	1°21'30
	838 Sep 01 j 10:27	30° \approx		minimum elong	839 Jun 18 j 05:53	29° \approx 11'38'35	1°21'11
evening set	838 Sep 05 j 01:40	27° \approx 50'39			839 Jun 18 j 09:52	0° \approx	
min. Earth dist.	838 Sep 08 j 22:51	24° \approx 01'07	0.65311 AU	max. Earth dist.	839 Jun 20 j 10:13	4° \approx 19'17	1.33372 AU
inferior conj	838 Sep 10 j 22:38	21° \approx 44'46	-2°29'17	evening rise	839 Jun 25 j 19:04	15° \approx 27'49	
minimum elong	838 Sep 11 j 02:28	21° \approx 33'49	2°27'53		839 Jul 03 j 10:22	0° \approx	
morning rise	838 Sep 17 j 04:00	16° \approx 08'12		desc. node	839 Jul 18 j 13:12	23° \approx 04'20	
asc. node	838 Sep 18 j 13:42	15° \approx 36'46			839 Jul 23 j 09:18	0° \approx	
direct	838 Sep 19 j 22:28	15° \approx 26'36		evening max el	839 Jul 29 j 10:24	6° \approx 31'27	27°24'50
morning max el	838 Sep 26 j 11:27	18° \approx 59'05	18°13'01	retrograde	839 Aug 12 j 01:05	13° \approx 50'07	
	838 Oct 04 j 17:14	0° \approx		evening set	839 Aug 19 j 05:03	11° \approx 09'35	
morning set	838 Oct 15 j 02:15	16° \approx 50'38		min. Earth dist.	839 Aug 22 j 20:50	7° \approx 54'10	0.63835 AU
	838 Oct 23 j 03:57	0° \approx		inferior conj	839 Aug 25 j 09:30	5° \approx 17'24	-3°23'01
desc. node	838 Oct 27 j 15:30	7° \approx 10'46		minimum elong	839 Aug 25 j 14:21	5° \approx 04'51	3°21'34
					839 Aug 31 j 21:53	30° \approx	
superior conj	838 Oct 29 j 17:21	10° \approx 28'41	-0°13'46	morning rise	839 Sep 01 j 00:42	29° \approx 05'00	
minimum elong	838 Oct 29 j 15:35	10° \approx 21'39	0°13'31	direct	839 Sep 03 j 14:12	29° \approx 02'42'27	
behind sun begin	838 Oct 29 j 09:25	9° \approx 57'14		asc. node	839 Sep 05 j 10:45	29° \approx 04'14'48	
behind sun end	838 Oct 29 j 21:44	10° \approx 46'03			839 Sep 06 j 06:07	0° \approx	
max. Earth dist.	838 Nov 01 j 13:38	14° \approx 58'14	1.44972 AU	morning max el	839 Sep 10 j 03:20	2° \approx 50'23	17°54'44
	838 Nov 11 j 04:08	0° \approx		morning set	839 Sep 27 j 00:08	28° \approx 44'30	

	839 Sep 27 j 17:39	0°♄		superior conj	840 Sep 19 j 13:41	0°♄46'42	1°08'43
				minimum elong	840 Sep 19 j 18:29	1°♄07'21	1°08'09
superior conj	839 Oct 09 j 13:58	19°♄57'34	0°32'41	max. Earth dist.	840 Sep 26 j 21:08	13°♄02'36	1.42840 AU
minimum elong	839 Oct 09 j 17:23	20°♄11'33	0°32'14	desc. node	840 Sep 30 j 09:34	18°♄44'15	
desc. node	839 Oct 14 j 12:32	27°♄57'31		evening rise	840 Oct 03 j 23:35	24°♄24'59	
max. Earth dist.	839 Oct 15 j 07:18	29°♄12'30	1.44222 AU		840 Oct 07 j 13:52	0°♄	
	839 Oct 15 j 19:13	0°♄			840 Oct 28 j 08:08	0°♄	
evening rise	839 Oct 25 j 13:14	15°♄15'16		evening max el	840 Nov 04 j 13:11	8°♄32'12	21°46'21
	839 Nov 04 j 06:05	0°♄		retrograde	840 Nov 13 j 15:28	13°♄56'52	
evening max el	839 Nov 22 j 16:26	25°♄02'17	20°34'25	evening set	840 Nov 17 j 23:00	12°♄14'43	
retrograde	839 Nov 30 j 18:41	29°♄48'51		asc. node	840 Nov 18 j 07:03	11°♄58'02	
asc. node	839 Dec 02 j 10:02	29°♄33'40		inferior conj	840 Nov 23 j 07:26	5°♄57'46	1°39'32
evening set	839 Dec 04 j 15:16	28°♄23'08		minimum elong	840 Nov 23 j 05:22	6°♄04'57	1°38'44
inferior conj	839 Dec 10 j 00:55	22°♄14'54	2°23'38	min. Earth dist.	840 Nov 23 j 10:38	5°♄46'41	0.67651 AU
minimum elong	839 Dec 09 j 22:18	22°♄23'48	2°22'47	morning rise	840 Nov 28 j 11:35	29°♄45'27	
min. Earth dist.	839 Dec 10 j 15:39	21°♄24'46	0.67232 AU		840 Nov 28 j 05:00	30°♄	
morning rise	839 Dec 15 j 05:09	16°♄01'40		direct	840 Dec 03 j 09:52	27°♄39'52	
direct	839 Dec 20 j 18:41	13°♄34'21			840 Dec 09 j 07:20	0°♄	
morning max el	839 Dec 31 j 23:58	20°♄15'48	24°24'37	morning max el	840 Dec 13 j 09:38	3°♄35'27	22°56'32
	840 Jan 09 j 08:18	0°♄		desc. node	840 Dec 27 j 08:49	21°♄04'13	
desc. node	840 Jan 10 j 11:47	1°♄29'32			841 Jan 02 j 12:49	0°♄	
	840 Jan 29 j 17:41	0°♄		morning set	841 Jan 16 j 20:51	22°♄30'20	
morning set	840 Feb 05 j 22:29	12°♄08'51			841 Jan 21 j 07:26	0°♄	
max. Earth dist.	840 Feb 09 j 14:54	18°♄42'00	1.37745 AU	max. Earth dist.	841 Jan 21 j 10:30	0°♄13'11	1.39876 AU
	840 Feb 15 j 16:28	0°♄					
superior conj	840 Feb 16 j 12:26	1°♄35'52	-1°40'57	superior conj	841 Jan 29 j 04:01	13°♄57'03	-1°57'20
minimum elong	840 Feb 16 j 16:28	1°♄55'19	1°40'31	minimum elong	841 Jan 29 j 06:59	14°♄10'39	1°57'11
evening rise	840 Feb 25 j 04:44	18°♄41'55			841 Feb 06 j 16:49	0°♄	
asc. node	840 Feb 28 j 09:20	24°♄56'51		evening rise	841 Feb 07 j 19:58	2°♄09'45	
	840 Mar 02 j 01:47	0°♄		asc. node	841 Feb 14 j 06:23	14°♄09'00	
evening max el	840 Mar 12 j 22:02	15°♄44'31	19°08'14	evening max el	841 Feb 24 j 01:30	28°♄13'53	18°28'59
retrograde	840 Mar 21 j 16:36	19°♄58'39			841 Feb 26 j 03:51	0°♄	
evening set	840 Mar 23 j 21:14	19°♄43'55		retrograde	841 Mar 03 j 14:37	1°♄56'29	
inferior conj	840 Apr 01 j 02:11	15°♄31'59	1°44'32	evening set	841 Mar 06 j 00:37	1°♄34'50	
minimum elong	840 Apr 01 j 05:55	15°♄25'36	1°43'21		841 Mar 09 j 10:00	30°♄	
min. Earth dist.	840 Apr 04 j 02:19	13°♄29'33	0.56610 AU	inferior conj	841 Mar 13 j 10:42	27°♄03'21	2°56'38
desc. node	840 Apr 07 j 10:57	11°♄30'20		minimum elong	841 Mar 13 j 14:38	26°♄55'28	2°55'46
morning rise	840 Apr 09 j 11:40	10°♄35'55		min. Earth dist.	841 Mar 16 j 21:00	24°♄20'02	0.58475 AU
direct	840 Apr 14 j 11:26	9°♄37'53		morning rise	841 Mar 21 j 01:54	21°♄37'01	
morning max el	840 Apr 28 j 17:02	16°♄56'36	25°28'52	desc. node	841 Mar 25 j 07:59	20°♄11'48	
	840 May 09 j 09:08	0°♄		direct	841 Mar 27 j 02:13	20°♄03'47	
morning set	840 May 25 j 19:08	29°♄40'20		morning max el	841 Apr 10 j 11:00	27°♄43'04	26°48'06
	840 May 25 j 22:52	0°♄			841 Apr 12 j 16:14	0°♄	
asc. node	840 May 26 j 08:34	0°♄51'20		morning set	841 May 02 j 21:21	0°♄	
				asc. node	841 May 10 j 05:24	14°♄31'51	
superior conj	840 Jun 01 j 18:45	14°♄47'55	1°03'15		841 May 13 j 05:37	20°♄56'35	
minimum elong	840 Jun 01 j 16:27	14°♄35'20	1°02'50	superior conj	841 May 17 j 06:28	29°♄46'01	0°41'34
max. Earth dist.	840 Jun 02 j 18:39	16°♄58'29	1.32649 AU	minimum elong	841 May 17 j 04:45	29°♄36'35	0°41'12
evening rise	840 Jun 08 j 21:04	29°♄58'55			841 May 17 j 09:00	0°♄	
	840 Jun 08 j 21:17	0°♄		max. Earth dist.	841 May 17 j 06:48	29°♄47'55	1.32302 AU
	840 Jun 25 j 12:21	0°♄		evening rise	841 May 24 j 04:28	14°♄44'34	
desc. node	840 Jul 04 j 10:14	12°♄18'45			841 May 31 j 21:30	0°♄	
evening max el	840 Jul 10 j 18:21	19°♄13'35	27°16'16	desc. node	841 Jun 21 j 07:16	29°♄40'39	
retrograde	840 Jul 24 j 14:18	26°♄29'46			841 Jun 21 j 14:50	0°♄	
evening set	840 Jul 31 j 18:07	24°♄06'13		evening max el	841 Jun 22 j 20:19	1°♄12'25	26°34'31
min. Earth dist.	840 Aug 04 j 08:21	21°♄17'15	0.62030 AU	retrograde	841 Jul 06 j 19:52	8°♄26'16	
inferior conj	840 Aug 07 j 08:53	18°♄30'57	-4°09'35	evening set	841 Jul 13 j 12:17	6°♄32'50	
minimum elong	840 Aug 07 j 13:43	18°♄19'47	4°08'34	min. Earth dist.	841 Jul 17 j 09:37	3°♄55'58	0.60000 AU
morning rise	840 Aug 14 j 10:47	13°♄30'18		inferior conj	841 Jul 20 j 17:16	1°♄16'31	-4°42'03
direct	840 Aug 16 j 21:57	13°♄03'54		minimum elong	841 Jul 20 j 20:17	1°♄10'26	4°41'45
asc. node	840 Aug 22 j 07:47	15°♄14'39			841 Jul 22 j 08:02	30°♄	
morning max el	840 Aug 23 j 18:22	16°♄31'23	17°54'46	morning rise	841 Jul 28 j 06:16	26°♄38'18	
	840 Sep 02 j 05:58	0°♄		direct	841 Jul 30 j 17:25	26°♄15'57	
morning set	840 Sep 08 j 18:35	11°♄37'12		morning max el	841 Aug 07 j 05:30	29°♄54'34	18°14'09
	840 Sep 19 j 02:50	0°♄			841 Aug 07 j 07:45	0°♄	
				asc. node	841 Aug 09 j 04:49	2°♄01'24	

morning set	841 Aug 23 j 03:53	25°♎12'29		superior conj	842 Aug 15 j 11:34	25°♎54'11	1°43'59
	841 Aug 25 j 16:41	0°♎		minimum elong	842 Aug 15 j 13:07	26°♎01'34	1°43'55
					842 Aug 17 j 15:34	0°♎	
superior conj	841 Sep 01 j 14:41	12°♎50'38	1°32'06	max. Earth dist.	842 Aug 22 j 08:44	8°♎37'40	1.38987 AU
minimum elong	841 Sep 01 j 18:16	13°♎06'52	1°31'48	evening rise	842 Aug 26 j 06:34	15°♎28'33	
max. Earth dist.	841 Sep 09 j 05:10	26°♎12'10	1.41011 AU	desc. node	842 Sep 04 j 03:36	0°♎02'57	
	841 Sep 11 j 11:17	0°♎			842 Sep 04 j 02:51	0°♎	
evening rise	841 Sep 14 j 02:54	4°♎22'22			842 Sep 25 j 13:40	0°♎	
desc. node	841 Sep 17 j 06:34	9°♎27'15		evening max el	842 Sep 30 j 17:22	5°♎38'13	24°24'51
	841 Sep 30 j 20:43	0°♎		retrograde	842 Oct 12 j 00:30	12°♎15'00	
evening max el	841 Oct 18 j 04:48	22°♎03'18	23°05'09	evening set	842 Oct 17 j 10:45	9°♎58'18	
retrograde	841 Oct 28 j 09:48	28°♎06'38		min. Earth dist.	842 Oct 22 j 03:12	4°♎35'21	0.67485 AU
evening set	841 Nov 02 j 06:02	26°♎07'06		inferior conj	842 Oct 22 j 21:01	3°♎35'32	-0°03'30
asc. node	841 Nov 05 j 04:05	23°♎01'09		minimum elong	842 Oct 22 j 21:06	3°♎35'16	0°03'28
inferior conj	841 Nov 07 j 14:42	19°♎45'11	0°50'00	transit middle	842 Oct 22 j 21:06	3°♎35'16	0°03'28
minimum elong	841 Nov 07 j 13:33	19°♎49'08	0°49'32	transit begin	842 Oct 22 j 18:26	3°♎44'15	
min. Earth dist.	841 Nov 07 j 07:16	20°♎10'48	0.67729 AU	transit end	842 Oct 22 j 23:47	3°♎26'17	
morning rise	841 Nov 12 j 21:00	13°♎35'47		asc. node	842 Oct 23 j 01:05	3°♎21'56	
direct	841 Nov 17 j 04:39	11°♎52'58			842 Oct 25 j 16:50	30°♎	
morning max el	841 Nov 26 j 00:01	17°♎02'33	21°31'57	morning rise	842 Oct 28 j 07:30	27°♎31'30	
	841 Dec 06 j 12:10	0°♎		direct	842 Nov 01 j 02:03	26°♎09'55	
desc. node	841 Dec 14 j 05:50	11°♎04'18			842 Nov 08 j 05:21	0°♎	
	841 Dec 26 j 15:36	0°♎		morning max el	842 Nov 08 j 21:34	0°♎39'51	20°17'20
morning set	841 Dec 27 j 14:07	1°♎28'59			842 Nov 30 j 05:03	0°♎	
max. Earth dist.	842 Jan 03 j 10:50	12°♎34'49	1.41920 AU	desc. node	842 Dec 01 j 02:52	1°♎22'57	
				morning set	842 Dec 06 j 11:49	9°♎37'59	
superior conj	842 Jan 10 j 22:52	25°♎16'35	-2°03'16	max. Earth dist.	842 Dec 16 j 18:34	25°♎49'09	1.43600 AU
minimum elong	842 Jan 10 j 22:32	25°♎15'11	2°03'15		842 Dec 19 j 08:45	0°♎	
	842 Jan 13 j 15:36	0°♎					
evening rise	842 Jan 21 j 22:36	14°♎57'28		superior conj	842 Dec 22 j 16:14	5°♎25'00	-1°53'55
	842 Jan 30 j 09:17	0°♎		minimum elong	842 Dec 22 j 10:50	5°♎02'44	1°53'36
asc. node	842 Feb 01 j 03:24	2°♎51'08		evening rise	843 Jan 04 j 08:29	26°♎57'11	
evening max el	842 Feb 07 j 10:50	11°♎08'19	18°09'46		843 Jan 06 j 02:30	0°♎	
retrograde	842 Feb 14 j 06:02	14°♎35'13		asc. node	843 Jan 19 j 00:25	20°♎54'18	
evening set	842 Feb 16 j 21:11	14°♎04'46		evening max el	843 Jan 21 j 23:03	24°♎20'03	18°10'01
inferior conj	842 Feb 23 j 15:25	9°♎12'29	3°35'20	retrograde	843 Jan 28 j 10:47	27°♎45'20	
minimum elong	842 Feb 23 j 17:32	9°♎07'34	3°35'07	evening set	843 Jan 31 j 06:45	27°♎04'55	
min. Earth dist.	842 Feb 26 j 21:51	6°♎11'45	0.60588 AU	inferior conj	843 Feb 06 j 12:48	21°♎52'15	3°47'25
morning rise	842 Mar 02 j 11:58	3°♎25'29		minimum elong	843 Feb 06 j 12:48	21°♎52'15	3°47'26
direct	842 Mar 09 j 05:01	1°♎15'21		min. Earth dist.	843 Feb 09 j 07:03	18°♎58'32	0.62641 AU
desc. node	842 Mar 12 j 05:01	1°♎39'50		morning rise	843 Feb 12 j 17:48	15°♎53'05	
morning max el	842 Mar 23 j 11:03	9°♎05'57	27°36'17	direct	843 Feb 19 j 17:18	13°♎15'11	
	842 Apr 08 j 12:25	0°♎		desc. node	843 Feb 27 j 02:03	15°♎43'12	
morning set	842 Apr 24 j 12:22	29°♎11'28		morning max el	843 Mar 05 j 16:36	21°♎09'14	27°47'39
	842 Apr 24 j 21:44	0°♎			843 Mar 13 j 09:15	0°♎	
asc. node	842 Apr 30 j 02:40	11°♎06'25			843 Apr 01 j 13:19	0°♎	
max. Earth dist.	842 Apr 30 j 18:51	12°♎34'44	1.32323 AU	morning set	843 Apr 08 j 13:52	13°♎31'40	
				max. Earth dist.	843 Apr 14 j 02:53	25°♎05'08	1.32738 AU
superior conj	842 May 01 j 17:46	14°♎40'08	0°17'11				
minimum elong	842 May 01 j 17:00	14°♎35'53	0°17'01	superior conj	843 Apr 16 j 03:00	29°♎24'07	-0°09'08
evening rise	842 May 08 j 15:01	29°♎37'17		minimum elong	843 Apr 16 j 03:26	29°♎26'28	0°09'02
	842 May 08 j 19:19	0°♎		behind sun begin	843 Apr 15 j 23:07	29°♎03'10	
	842 May 25 j 09:49	0°♎		behind sun end	843 Apr 16 j 07:44	29°♎49'47	
evening max el	842 Jun 04 j 15:19	12°♎25'55	25°23'12		843 Apr 16 j 09:37	0°♎	
desc. node	842 Jun 08 j 04:16	15°♎27'47		asc. node	843 Apr 16 j 23:42	1°♎16'23	
retrograde	842 Jun 18 j 16:04	19°♎35'16		evening rise	843 Apr 23 j 02:49	14°♎30'05	
evening set	842 Jun 24 j 07:42	18°♎20'39			843 Apr 30 j 21:51	0°♎	
min. Earth dist.	842 Jun 29 j 03:17	15°♎37'20	0.57964 AU	evening max el	843 May 17 j 05:52	23°♎06'05	23°52'26
inferior conj	842 Jul 02 j 07:17	13°♎25'17	-4°49'46	desc. node	843 May 26 j 01:17	29°♎04'40	
minimum elong	842 Jul 02 j 06:11	13°♎27'13	4°49'44		843 May 30 j 13:28	0°♎	
morning rise	842 Jul 10 j 07:17	9°♎09'23		retrograde	843 May 31 j 00:11	0°♎00'27	
direct	842 Jul 12 j 20:16	8°♎49'39			843 May 31 j 10:55	30°♎	
morning max el	842 Jul 21 j 09:41	12°♎51'12	18°54'01	evening set	843 Jun 04 j 05:17	29°♎21'18	
asc. node	842 Jul 27 j 01:52	19°♎47'12		min. Earth dist.	843 Jun 10 j 16:45	26°♎16'13	0.56243 AU
	842 Aug 02 j 03:12	0°♎		inferior conj	843 Jun 13 j 01:08	24°♎50'08	-4°19'19
morning set	842 Aug 06 j 23:46	9°♎19'18		minimum elong	843 Jun 12 j 19:10	24°♎59'17	4°18'19
				morning rise	843 Jun 21 j 11:47	20°♎51'28	

direct	843 Jun 24 j 04:06	20° Π 33'02		direct	844 Jun 03 j 19:55	1° Π 21'58	
morning max el	843 Jul 04 j 04:03	25° Π 10'58	19°55'01	morning max el	844 Jun 15 j 11:07	6° Π 47'44	21°16'07
	843 Jul 08 j 11:22	0° \mathfrak{S}		asc. node	844 Jun 29 j 20:00	27° Π 23'22	
asc. node	843 Jul 13 j 22:55	8° \mathfrak{S} 18'06			844 Jul 01 j 04:51	0° \mathfrak{S}	
morning set	843 Jul 22 j 02:58	23° \mathfrak{S} 48'24		morning set	844 Jul 05 j 11:00	8° \mathfrak{S} 33'12	
	843 Jul 25 j 04:01	0° Ω					
superior conj	843 Jul 29 j 22:54	9° Ω 41'14	1°46'23	superior conj	844 Jul 12 j 20:27	23° \mathfrak{S} 59'42	1°41'15
minimum elong	843 Jul 29 j 22:36	9° Ω 39'43	1°46'23	minimum elong	844 Jul 12 j 18:51	23° \mathfrak{S} 51'23	1°41'10
max. Earth dist.	843 Aug 04 j 12:59	20° Ω 33'25	1.37023 AU		844 Jul 15 j 18:51	0° Ω	
evening rise	843 Aug 08 j 09:26	27° Ω 40'48		max. Earth dist.	844 Jul 16 j 23:48	2° Ω 25'20	1.35316 AU
	843 Aug 09 j 16:28	0° \mathfrak{N}		evening rise	844 Jul 21 j 07:03	10° Ω 47'51	
desc. node	843 Aug 22 j 00:37	20° \mathfrak{N} 26'01			844 Aug 01 j 04:08	0° \mathfrak{N}	
	843 Aug 28 j 12:06	0° \mathfrak{A}		desc. node	844 Aug 07 j 21:37	10° \mathfrak{N} 30'23	
evening max el	843 Sep 13 j 05:10	19° \mathfrak{A} 16'21	25°38'16		844 Aug 22 j 21:43	0° \mathfrak{A}	
retrograde	843 Sep 25 j 10:36	26° \mathfrak{A} 16'45		evening max el	844 Aug 25 j 17:14	2° \mathfrak{A} 52'43	26°37'35
evening set	843 Oct 01 j 11:21	23° \mathfrak{A} 44'57		retrograde	844 Sep 07 j 15:31	10° \mathfrak{A} 06'21	
min. Earth dist.	843 Oct 05 j 19:55	18° \mathfrak{A} 57'25	0.66915 AU	evening set	844 Sep 14 j 05:49	7° \mathfrak{A} 24'03	
inferior conj	843 Oct 07 j 00:36	17° \mathfrak{A} 25'40	-0°59'39	min. Earth dist.	844 Sep 18 j 07:00	3° \mathfrak{A} 13'31	0.66004 AU
minimum elong	843 Oct 07 j 02:08	17° \mathfrak{A} 20'47	0°59'01	inferior conj	844 Sep 19 j 23:31	1° \mathfrak{A} 12'24	-1°56'47
asc. node	843 Oct 09 j 22:08	13° \mathfrak{A} 55'55		minimum elong	844 Sep 20 j 02:33	1° \mathfrak{A} 03'19	1°55'35
morning rise	843 Oct 12 j 17:08	11° \mathfrak{A} 29'49			844 Sep 20 j 23:58	30° \mathfrak{R} \mathfrak{N}	
direct	843 Oct 16 j 00:35	10° \mathfrak{A} 26'31		morning rise	844 Sep 25 j 23:46	25° \mathfrak{N} 27'55	
morning max el	843 Oct 23 j 02:43	14° \mathfrak{A} 26'17	19°16'31	asc. node	844 Sep 25 j 19:12	25° \mathfrak{N} 34'21	
	843 Nov 03 j 19:08	0° \mathfrak{M}		direct	844 Sep 28 j 22:22	24° \mathfrak{N} 39'22	
morning set	843 Nov 15 j 13:49	18° \mathfrak{M} 08'12		morning max el	844 Oct 05 j 14:04	28° \mathfrak{N} 18'55	18°31'26
desc. node	843 Nov 17 j 23:55	21° \mathfrak{M} 54'26			844 Oct 07 j 03:20	0° \mathfrak{A}	
	843 Nov 23 j 04:17	0° \mathfrak{X}		morning set	844 Oct 25 j 16:08	27° \mathfrak{A} 54'25	
max. Earth dist.	843 Nov 29 j 09:14	9° \mathfrak{X} 45'07	1.44696 AU		844 Oct 26 j 23:28	0° \mathfrak{M}	
				desc. node	844 Nov 03 j 20:56	12° \mathfrak{M} 34'23	
superior conj	843 Dec 02 j 07:55	14° \mathfrak{X} 25'00	-1°25'59	superior conj	844 Nov 10 j 09:01	22° \mathfrak{M} 49'39	-0°42'09
minimum elong	843 Dec 01 j 23:22	13° \mathfrak{X} 51'03	1°25'07	minimum elong	844 Nov 10 j 03:34	22° \mathfrak{M} 28'11	0°41'27
	843 Dec 12 j 00:11	0° \mathfrak{Z}		max. Earth dist.	844 Nov 11 j 03:56	24° \mathfrak{M} 03'56	1.45084 AU
evening rise	843 Dec 16 j 21:22	8° \mathfrak{Z} 01'39			844 Nov 14 j 22:35	0° \mathfrak{X}	
	843 Dec 30 j 11:18	0° \approx		evening rise	844 Nov 26 j 10:39	18° \mathfrak{X} 07'50	
evening max el	844 Jan 05 j 11:23	7° \approx 42'12	18°28'56		844 Dec 03 j 22:34	0° \mathfrak{Z}	
asc. node	844 Jan 05 j 21:26	8° \approx 07'11		greatest brilliancy	844 Dec 05 j 16:26	2° \mathfrak{Z} 44'24	-0.8m
retrograde	844 Jan 12 j 00:35	11° \approx 18'11		evening max el	844 Dec 18 j 21:16	21° \mathfrak{Z} 08'47	19°05'29
evening set	844 Jan 15 j 01:44	10° \approx 26'47		asc. node	844 Dec 22 j 18:30	24° \mathfrak{Z} 15'21	
inferior conj	844 Jan 20 j 22:54	4° \approx 55'13	3°39'58	retrograde	844 Dec 25 j 19:46	25° \mathfrak{Z} 06'00	
minimum elong	844 Jan 20 j 21:18	4° \approx 59'52	3°39'48	evening set	844 Dec 29 j 03:07	24° \mathfrak{Z} 02'29	
min. Earth dist.	844 Jan 23 j 01:47	2° \approx 26'54	0.64416 AU	inferior conj	845 Jan 03 j 18:07	18° \mathfrak{Z} 14'13	3°18'17
	844 Jan 25 j 08:57	30° \mathfrak{R} \mathfrak{Z}		minimum elong	845 Jan 03 j 15:38	18° \mathfrak{Z} 22'04	3°17'47
morning rise	844 Jan 26 j 16:22	28° \mathfrak{Z} 48'52		min. Earth dist.	845 Jan 05 j 05:45	16° \mathfrak{Z} 21'38	0.65815 AU
direct	844 Feb 02 j 13:00	25° \mathfrak{Z} 57'53		morning rise	845 Jan 09 j 03:52	12° \mathfrak{Z} 03'30	
	844 Feb 11 j 20:19	0° \approx		direct	845 Jan 15 j 15:03	9° \mathfrak{Z} 13'42	
desc. node	844 Feb 13 j 23:07	1° \approx 47'09		morning max el	845 Jan 28 j 11:17	16° \mathfrak{Z} 47'29	26°29'05
morning max el	844 Feb 16 j 01:31	3° \approx 47'04	27°23'19	desc. node	845 Jan 30 j 20:10	19° \mathfrak{Z} 17'30	
	844 Mar 06 j 20:02	0° \mathfrak{H}			845 Feb 08 j 11:37	0° \approx	
morning set	844 Mar 22 j 07:17	27° \mathfrak{H} 23'58			845 Feb 27 j 17:06	0° \mathfrak{H}	
	844 Mar 23 j 14:52	0° \mathfrak{Y}		morning set	845 Mar 05 j 12:52	10° \mathfrak{H} 36'21	
max. Earth dist.	844 Mar 27 j 03:14	7° \mathfrak{Y} 08'21	1.33578 AU	max. Earth dist.	845 Mar 09 j 16:37	18° \mathfrak{H} 37'38	1.34868 AU
superior conj	844 Mar 30 j 08:15	13° \mathfrak{Y} 51'55	-0°36'23	superior conj	845 Mar 14 j 07:14	27° \mathfrak{H} 55'33	-1°03'24
minimum elong	844 Mar 30 j 10:03	14° \mathfrak{Y} 01'23	0°36'00	minimum elong	845 Mar 14 j 10:18	28° \mathfrak{H} 11'21	1°02'51
asc. node	844 Apr 02 j 20:46	21° \mathfrak{Y} 22'34			845 Mar 15 j 07:21	0° \mathfrak{Y}	
evening rise	844 Apr 06 j 14:04	29° \mathfrak{Y} 16'50		asc. node	845 Mar 20 j 17:49	11° \mathfrak{Y} 19'57	
	844 Apr 06 j 22:18	0° \mathfrak{B}		evening rise	845 Mar 21 j 22:47	13° \mathfrak{Y} 50'07	
	844 Apr 24 j 12:53	0° Π			845 Mar 30 j 07:33	0° \mathfrak{B}	
evening max el	844 Apr 27 j 22:10	3° Π 39'58	22°16'57	evening max el	845 Apr 09 j 22:48	14° \mathfrak{B} 35'15	20°50'06
retrograde	844 May 10 j 19:39	10° Π 01'17		retrograde	845 Apr 21 j 08:49	20° \mathfrak{B} 07'28	
desc. node	844 May 11 j 22:18	9° Π 58'30		evening set	845 Apr 23 j 13:01	19° \mathfrak{B} 56'10	
evening set	844 May 13 j 16:57	9° Π 42'53		desc. node	845 Apr 28 j 19:22	18° \mathfrak{B} 08'12	
min. Earth dist.	844 May 22 j 04:51	6° Π 04'04	0.55178 AU	inferior conj	845 May 02 j 19:46	15° \mathfrak{B} 58'10	-1°09'31
inferior conj	844 May 23 j 01:50	5° Π 34'30	-3°02'20	minimum elong	845 May 02 j 16:28	16° \mathfrak{B} 02'52	1°08'20
minimum elong	844 May 22 j 18:28	5° Π 44'53	3°00'09	min. Earth dist.	845 May 03 j 17:32	15° \mathfrak{B} 27'10	0.55007 AU
morning rise	844 May 31 j 21:46	1° Π 41'17		morning rise	845 May 11 j 19:31	11° \mathfrak{B} 51'29	

direct	845 May 15 j 05:50	11°♄26'08		minimum elong	846 Apr 12 j 23:39	26°♄29'49	0°46'41
morning max el	845 May 28 j 08:07	17°♄43'43	22°52'33	min. Earth dist.	846 Apr 15 j 07:54	25°♄01'31	0.55787 AU
	845 Jun 07 j 05:26	0°♄		desc. node	846 Apr 15 j 16:25	24°♄48'31	
asc. node	845 Jun 16 j 17:05	16°♄53'41		morning rise	846 Apr 21 j 15:05	21°♄55'59	
morning set	845 Jun 19 j 21:51	23°♄27'18		direct	846 Apr 25 j 23:21	21°♄13'46	
	845 Jun 22 j 23:53	0°♄		morning max el	846 May 09 j 23:25	28°♄15'19	24°33'55
					846 May 11 j 17:15	0°♄	
superior conj	845 Jun 27 j 00:56	8°♄39'22	1°30'08		846 May 31 j 07:03	0°♄	
minimum elong	845 Jun 26 j 22:38	8°♄27'06	1°29'53	asc. node	846 Jun 03 j 14:07	6°♄42'00	
max. Earth dist.	845 Jun 29 j 19:46	14°♄32'01	1.33966 AU	morning set	846 Jun 04 j 09:44	8°♄24'53	
evening rise	845 Jul 04 j 18:41	24°♄36'33					
	845 Jul 07 j 13:30	0°♄		superior conj	846 Jun 11 j 09:47	23°♄31'49	1°14'14
desc. node	845 Jul 25 j 18:39	0°♄07'59		minimum elong	846 Jun 11 j 07:20	23°♄18'33	1°13'51
	845 Jul 25 j 16:23	0°♄		max. Earth dist.	846 Jun 13 j 00:12	26°♄59'40	1.33015 AU
evening max el	845 Aug 08 j 05:04	16°♄17'43	27°15'22		846 Jun 14 j 09:49	0°♄	
retrograde	845 Aug 21 j 14:57	23°♄36'37		evening rise	846 Jun 18 j 16:22	8°♄55'12	
evening set	845 Aug 28 j 15:38	20°♄51'55			846 Jun 29 j 22:53	0°♄	
min. Earth dist.	845 Sep 01 j 10:10	17°♄17'48	0.64729 AU	desc. node	846 Jul 12 j 15:42	19°♄07'00	
inferior conj	845 Sep 03 j 15:32	14°♄51'40	-2°52'40	evening max el	846 Jul 21 j 15:01	29°♄18'58	27°25'08
minimum elong	845 Sep 03 j 19:52	14°♄39'44	2°51'11		846 Jul 22 j 08:36	0°♄	
morning rise	845 Sep 10 j 00:58	9°♄21'50		retrograde	846 Aug 04 j 08:27	6°♄37'37	
direct	845 Sep 12 j 17:03	8°♄44'28		evening set	846 Aug 11 j 13:28	4°♄02'20	
asc. node	845 Sep 12 j 16:17	8°♄44'28		min. Earth dist.	846 Aug 15 j 03:43	0°♄59'43	0.63098 AU
morning max el	845 Sep 19 j 05:11	12°♄12'52	18°03'09		846 Aug 16 j 04:19	30°♄	
	845 Oct 01 j 13:00	0°♄		inferior conj	846 Aug 17 j 21:52	28°♄16'51	-3°44'04
morning set	845 Oct 06 j 23:17	9°♄05'34		minimum elong	846 Aug 18 j 02:54	28°♄04'28	3°42'43
	845 Oct 19 j 16:06	0°♄		morning rise	846 Aug 24 j 17:35	23°♄04'48	
				direct	846 Aug 27 j 05:41	22°♄35'18	
superior conj	845 Oct 20 j 17:16	1°♄40'58	0°06'52	asc. node	846 Aug 30 j 13:20	23°♄28'09	
minimum elong	845 Oct 20 j 18:05	1°♄44'18	0°06'46	morning max el	846 Sep 02 j 21:08	26°♄00'58	17°52'29
behind sun begin	845 Oct 20 j 08:23	1°♄05'23			846 Sep 06 j 06:18	0°♄	
behind sun end	845 Oct 21 j 03:47	2°♄23'08		morning set	846 Sep 19 j 06:38	21°♄26'13	
desc. node	845 Oct 21 j 17:57	3°♄19'41			846 Sep 24 j 04:00	0°♄	
max. Earth dist.	845 Oct 24 j 22:46	8°♄24'50	1.44731 AU				
evening rise	845 Nov 06 j 03:10	27°♄25'33		superior conj	846 Oct 01 j 01:07	11°♄43'23	0°49'29
	845 Nov 07 j 19:12	0°♄		minimum elong	846 Oct 01 j 05:34	12°♄01'58	0°48'55
greatest brilliancy	845 Nov 19 j 22:38	18°♄27'54	-0.6m	max. Earth dist.	846 Oct 07 j 14:36	22°♄28'55	1.43693 AU
	845 Nov 28 j 03:50	0°♄		desc. node	846 Oct 08 j 14:58	24°♄06'47	
evening max el	845 Dec 02 j 02:45	4°♄37'03	19°57'58		846 Oct 12 j 07:58	0°♄	
retrograde	845 Dec 09 j 17:21	9°♄04'12		evening rise	846 Oct 16 j 10:35	6°♄24'38	
asc. node	845 Dec 09 j 15:33	9°♄04'10			846 Nov 01 j 03:59	0°♄	
evening set	845 Dec 13 j 08:30	7°♄47'06		evening max el	846 Nov 15 j 02:42	18°♄05'48	21°03'54
inferior conj	845 Dec 18 j 19:33	1°♄45'04	2°46'01	retrograde	846 Nov 23 j 14:56	23°♄08'45	
minimum elong	845 Dec 18 j 16:49	1°♄54'10	2°45'15	asc. node	846 Nov 26 j 12:36	22°♄21'26	
min. Earth dist.	845 Dec 19 j 17:26	0°♄32'01	0.66819 AU	evening set	846 Nov 27 j 15:50	21°♄36'25	
	845 Dec 20 j 03:08	30°♄		inferior conj	846 Dec 03 j 00:46	15°♄23'56	2°05'40
morning rise	845 Dec 24 j 00:56	25°♄32'02		minimum elong	846 Dec 02 j 22:20	15°♄32'19	2°04'50
direct	845 Dec 29 j 22:49	22°♄54'21		min. Earth dist.	846 Dec 03 j 10:30	14°♄50'29	0.67447 AU
	846 Jan 10 j 20:30	0°♄		morning rise	846 Dec 08 j 04:38	9°♄10'35	
morning max el	846 Jan 10 j 20:14	29°♄59'19	25°13'40	direct	846 Dec 13 j 11:38	6°♄52'03	
desc. node	846 Jan 17 j 17:12	7°♄49'17		morning max el	846 Dec 24 j 04:43	13°♄15'21	23°47'11
	846 Feb 02 j 09:20	0°♄		desc. node	847 Jan 04 j 14:13	27°♄04'23	
morning set	846 Feb 16 j 01:50	22°♄55'15			847 Jan 06 j 17:15	0°♄	
	846 Feb 19 j 22:25	0°♄			847 Jan 26 j 06:20	0°♄	
max. Earth dist.	846 Feb 19 j 18:34	29°♄42'00	1.36591 AU	morning set	847 Jan 28 j 16:00	4°♄03'35	
				max. Earth dist.	847 Feb 01 j 13:31	10°♄50'01	1.38634 AU
superior conj	846 Feb 25 j 21:04	11°♄27'18	-1°28'24				
minimum elong	846 Feb 26 j 01:01	11°♄46'48	1°27'52	superior conj	847 Feb 08 j 22:04	24°♄17'18	-1°48'54
evening rise	846 Mar 06 j 02:50	28°♄03'30		minimum elong	847 Feb 09 j 01:52	24°♄35'17	1°48'35
	846 Mar 07 j 02:01	0°♄			847 Feb 11 j 21:54	0°♄	
asc. node	846 Mar 07 j 14:52	1°♄04'08		evening rise	847 Feb 17 j 23:35	11°♄49'40	
evening max el	846 Mar 23 j 10:55	26°♄08'14	19°39'50	asc. node	847 Feb 22 j 11:54	20°♄29'42	
	846 Mar 29 j 02:19	0°♄			847 Feb 27 j 22:54	0°♄	
retrograde	846 Apr 02 j 03:40	0°♄48'14		evening max el	847 Mar 06 j 09:38	8°♄19'29	18°49'11
evening set	846 Apr 04 j 05:38	0°♄36'16		retrograde	847 Mar 14 j 14:20	12°♄18'02	
	846 Apr 06 j 09:56	30°♄		evening set	847 Mar 16 j 21:08	12°♄00'45	
inferior conj	846 Apr 12 j 21:39	26°♄32'58	0°47'24	inferior conj	847 Mar 24 j 17:54	7°♄41'21	2°19'23

minimum elong	847 Mar 24 j 22:05	7° Υ 33'41	2°18'14	min. Earth dist.	848 Mar 08 j 21:22	16° X 35'02	0.59361 AU
min. Earth dist.	847 Mar 28 j 00:36	5° Υ 18'45	0.57345 AU	morning rise	848 Mar 12 j 18:19	13° X 52'52	
morning rise	847 Apr 01 j 19:57	2° Υ 31'15		direct	848 Mar 19 j 03:12	12° X 03'18	
desc. node	847 Apr 02 j 13:26	2° Υ 13'28		desc. node	848 Mar 19 j 10:27	12° X 03'33	
direct	847 Apr 07 j 06:52	1° Υ 18'51		morning max el	848 Apr 02 j 10:55	19° X 47'52	27°12'57
morning max el	847 Apr 21 j 14:49	8° Υ 48'35	26°05'37		848 Apr 11 j 03:53	0° Υ	
	847 May 07 j 13:22	0° X			848 Apr 29 j 05:51	0° X	
morning set	847 May 19 j 21:05	23° X 20'47		morning set	848 May 03 j 06:10	8° X 07'57	
asc. node	847 May 21 j 11:09	26° X 42'55		asc. node	848 May 07 j 08:11	16° X 50'40	
	847 May 22 j 23:42	0° Π					
superior conj	847 May 26 j 21:00	8° Π 30'24	0°54'27	superior conj	848 May 10 j 08:43	23° X 27'39	0°31'32
minimum elong	847 May 26 j 18:53	8° Π 18'52	0°54'02	minimum elong	848 May 10 j 07:22	23° X 20'11	0°31'14
max. Earth dist.	847 May 27 j 10:32	9° Π 44'42	1.32454 AU	max. Earth dist.	848 May 09 j 23:08	22° X 34'56	1.32266 AU
evening rise	847 Jun 02 j 20:59	23° Π 34'20		evening rise	848 May 13 j 08:14	0° Π	
	847 Jun 06 j 00:46	0° X			848 May 17 j 05:58	8° Π 24'15	
	847 Jun 23 j 20:05	0° Ω			848 May 28 j 11:44	0° X	
desc. node	847 Jun 29 j 12:44	7° Ω 11'17		evening max el	848 Jun 14 j 20:01	23° X 24'57	26°07'24
evening max el	847 Jul 03 j 20:47	11° Ω 44'44	27°02'33	desc. node	848 Jun 15 j 09:45	23° X 57'08	
retrograde	847 Jul 17 j 18:52	19° Ω 00'17		retrograde	848 Jun 24 j 22:57	0° Ω	
evening set	847 Jul 24 j 19:08	16° Ω 48'13			848 Jun 28 j 20:25	0° Ω 36'34	
min. Earth dist.	847 Jul 28 j 11:02	14° Ω 06'11	0.61182 AU	evening set	848 Jul 02 j 16:49	30° R X	
inferior conj	847 Jul 31 j 15:21	11° Ω 20'28	-4°25'39	min. Earth dist.	848 Jul 05 j 03:54	28° X 59'28	
minimum elong	847 Jul 31 j 19:42	11° Ω 11'00	4°24'56	inferior conj	848 Jul 09 j 08:46	26° X 21'56	0.59126 AU
morning rise	847 Aug 07 j 21:58	6° Ω 28'58		minimum elong	848 Jul 12 j 16:21	23° X 51'56	-4°49'06
direct	847 Aug 10 j 08:42	6° Ω 04'38		morning rise	848 Jul 12 j 17:52	23° X 49'02	4°49'02
asc. node	847 Aug 17 j 10:21	9° Ω 34'40		direct	848 Jul 20 j 10:00	19° X 23'01	
morning max el	847 Aug 17 j 10:54	9° Ω 35'59	18°00'30	morning max el	848 Jul 22 j 21:51	19° X 01'50	
	847 Aug 30 j 19:20	0° X		asc. node	848 Jul 30 j 19:21	22° X 48'42	18°28'26
morning set	847 Sep 02 j 08:04	4° X 39'08		asc. node	848 Aug 03 j 07:23	26° X 48'13	
					848 Aug 05 j 13:27	0° Ω	
superior conj	847 Sep 12 j 12:11	23° X 06'07	1°20'09	morning set	848 Aug 15 j 22:21	18° Ω 29'22	
minimum elong	847 Sep 12 j 16:40	23° X 25'51	1°19'40		848 Aug 21 j 22:25	0° X	
	847 Sep 16 j 11:42	0° Ω		superior conj	848 Aug 24 j 22:19	5° X 37'11	1°38'25
max. Earth dist.	847 Sep 20 j 01:41	6° Ω 01'57	1.42108 AU	minimum elong	848 Aug 25 j 01:04	5° X 49'53	1°38'14
desc. node	847 Sep 25 j 12:01	14° Ω 52'39		max. Earth dist.	848 Sep 01 j 07:48	18° X 53'44	1.40169 AU
evening rise	847 Sep 26 j 02:41	15° Ω 51'09		evening rise	848 Sep 05 j 16:07	26° X 17'09	
	847 Oct 05 j 06:22	0° X			848 Sep 07 j 22:09	0° Ω	
	847 Oct 27 j 08:37	0° X		desc. node	848 Sep 11 j 09:03	5° Ω 33'17	
evening max el	847 Oct 28 j 21:09	1° X 36'14	22°19'24		848 Sep 27 j 23:01	0° X	
retrograde	847 Nov 07 j 10:44	7° X 17'27		evening max el	848 Oct 10 j 11:22	15° X 09'36	23°39'23
evening set	847 Nov 11 j 23:25	5° X 28'12		retrograde	848 Oct 21 j 03:31	21° X 27'19	
asc. node	847 Nov 13 j 09:36	4° X 08'03		evening set	848 Oct 26 j 05:40	19° X 20'23	
	847 Nov 16 j 17:00	30° X X		asc. node	848 Oct 30 j 06:37	14° X 47'14	
inferior conj	847 Nov 17 j 07:49	29° X 08'51	1°19'05	min. Earth dist.	848 Oct 31 j 03:04	13° X 38'13	0.67671 AU
minimum elong	847 Nov 17 j 06:05	29° X 14'49	1°18'24	inferior conj	848 Oct 31 j 14:53	12° X 57'53	0°27'44
min. Earth dist.	847 Nov 17 j 06:30	29° X 13'22	0.67728 AU	minimum elong	848 Oct 31 j 14:14	13° X 00'07	0°27'27
morning rise	847 Nov 22 j 12:35	22° X 57'22		morning rise	848 Nov 05 j 22:45	6° X 50'36	
direct	847 Nov 27 j 04:36	21° X 01'14		direct	848 Nov 10 j 00:42	5° X 17'00	
morning max el	847 Dec 06 j 15:45	26° X 36'44	22°19'33	morning max el	848 Nov 18 j 08:57	10° X 08'03	20°58'42
	847 Dec 09 j 18:24	0° X			848 Dec 03 j 14:38	0° X	
desc. node	847 Dec 22 j 11:14	16° X 50'46		desc. node	848 Dec 08 j 08:17	6° X 59'52	
	847 Dec 31 j 07:41	0° X		morning set	848 Dec 18 j 08:31	22° X 18'45	
morning set	848 Jan 09 j 01:43	13° X 47'53			848 Dec 23 j 05:11	0° X	
max. Earth dist.	848 Jan 14 j 10:04	22° X 39'02	1.40772 AU	max. Earth dist.	848 Dec 26 j 14:06	5° X 26'37	1.42697 AU
	848 Jan 18 j 16:54	0° \approx					
superior conj	848 Jan 22 j 05:29	6° \approx 13'40	-2°01'26	superior conj	849 Jan 02 j 14:01	17° X 04'20	-2°01'27
minimum elong	848 Jan 22 j 07:21	6° \approx 22'01	2°01'22	minimum elong	849 Jan 02 j 11:37	16° X 54'12	2°01'22
evening rise	848 Feb 01 j 09:52	25° \approx 00'46			849 Jan 10 j 00:58	0° \approx	
	848 Feb 04 j 01:54	0° X		evening rise	849 Jan 14 j 05:56	7° \approx 29'31	
asc. node	848 Feb 09 j 08:56	9° X 29'46		asc. node	849 Jan 26 j 05:58	27° \approx 56'44	
evening max el	848 Feb 17 j 16:02	21° X 00'40	18°18'30		849 Jan 27 j 16:45	0° X	
retrograde	848 Feb 24 j 19:55	24° X 34'20		evening max el	849 Jan 31 j 02:58	4° X 03'33	18°07'32
evening set	848 Feb 27 j 08:21	24° X 08'59		retrograde	849 Feb 06 j 17:42	7° X 28'09	
inferior conj	848 Mar 05 j 11:14	19° X 28'47	3°16'48	evening set	849 Feb 09 j 10:59	6° X 53'27	
minimum elong	848 Mar 05 j 14:31	19° X 21'45	3°16'14	inferior conj	849 Feb 15 j 23:33	1° X 52'02	3°43'18
				minimum elong	849 Feb 16 j 00:44	1° X 49'07	3°43'14

	849 Feb 17 j 20:55	30° \approx		evening set	850 Jan 24 j 00:58	20° \approx 03'54	
min. Earth dist.	849 Feb 19 j 01:19	28° \approx 51'55	0.61482 AU	inferior conj	850 Jan 30 j 02:50	14° \approx 42'45	3°46'18
morning rise	849 Feb 22 j 13:01	25° \approx 59'11		minimum elong	850 Jan 30 j 02:05	14° \approx 44'51	3°46'15
direct	849 Mar 01 j 10:00	23° \approx 36'03		min. Earth dist.	850 Feb 01 j 14:36	11° \approx 58'06	0.63435 AU
desc. node	849 Mar 06 j 07:28	24° \approx 41'25		morning rise	850 Feb 05 j 02:24	8° \approx 39'46	
	849 Mar 14 j 00:29	0° \approx		direct	850 Feb 12 j 01:28	5° \approx 54'39	
morning max el	849 Mar 15 j 13:32	1° \approx 28'12	27°45'51	desc. node	850 Feb 21 j 04:31	9° \approx 40'18	
	849 Apr 05 j 08:52	0° \approx		morning max el	850 Feb 25 j 21:07	13° \approx 48'11	27°41'29
morning set	849 Apr 17 j 11:06	22° \approx 40'10			850 Mar 10 j 23:12	0° \approx	
	849 Apr 20 j 23:12	0° \approx			850 Mar 28 j 21:35	0° \approx	
max. Earth dist.	849 Apr 23 j 10:10	5° \approx 17'19	1.32454 AU	morning set	850 Apr 01 j 09:32	6° \approx 49'32	
asc. node	849 Apr 24 j 05:15	7° \approx 01'03		max. Earth dist.	850 Apr 06 j 15:28	17° \approx 37'26	1.33039 AU
superior conj	849 Apr 24 j 19:21	8° \approx 17'55	0°06'14	superior conj	850 Apr 09 j 03:07	22° \approx 55'19	-0°20'39
minimum elong	849 Apr 24 j 19:04	8° \approx 16'20	0°06'11	minimum elong	850 Apr 09 j 04:07	23° \approx 00'42	0°20'25
behind sun begin	849 Apr 24 j 14:20	7° \approx 50'34		asc. node	850 Apr 11 j 02:19	27° \approx 09'44	
behind sun end	849 Apr 24 j 23:47	8° \approx 42'07			850 Apr 12 j 09:51	0° \approx	
evening rise	849 May 01 j 17:18	23° \approx 17'51		evening rise	850 Apr 16 j 05:04	8° \approx 08'26	
	849 May 04 j 22:53	0° \approx			850 Apr 27 j 17:03	0° \approx	
	849 May 23 j 11:00	0° \approx		evening max el	850 May 09 j 02:41	14° \approx 54'11	23°11'29
evening max el	849 May 27 j 12:33	4° \approx 21'29	24°46'04	desc. node	850 May 20 j 03:46	21° \approx 24'17	
desc. node	849 Jun 02 j 06:45	8° \approx 53'33		retrograde	850 May 22 j 14:20	21° \approx 37'51	
retrograde	849 Jun 10 j 11:25	11° \approx 25'52		evening set	850 May 26 j 04:41	21° \approx 09'25	
evening set	849 Jun 15 j 13:20	10° \approx 27'20		min. Earth dist.	850 Jun 02 j 12:21	17° \approx 51'28	0.55685 AU
min. Earth dist.	849 Jun 20 j 23:49	7° \approx 36'37	0.57181 AU	inferior conj	850 Jun 04 j 07:30	16° \approx 48'17	-3°52'21
inferior conj	849 Jun 23 j 21:46	5° \approx 42'13	-4°42'15	minimum elong	850 Jun 04 j 00:16	16° \approx 58'55	3°50'42
minimum elong	849 Jun 23 j 18:30	5° \approx 47'38	4°41'58	morning rise	850 Jun 12 j 22:29	12° \approx 54'15	
morning rise	849 Jul 02 j 02:24	1° \approx 34'48		direct	850 Jun 15 j 16:35	12° \approx 36'00	
direct	849 Jul 04 j 16:51	1° \approx 15'40		morning max el	850 Jun 26 j 09:20	17° \approx 33'00	20°27'22
morning max el	849 Jul 13 j 19:36	5° \approx 30'28	19°17'22		850 Jul 05 j 22:05	0° \approx	
asc. node	849 Jul 21 j 04:27	14° \approx 54'36		asc. node	850 Jul 08 j 01:32	3° \approx 41'33	
	849 Jul 29 j 12:00	0° \approx		morning set	850 Jul 15 j 03:14	17° \approx 23'48	
morning set	849 Jul 30 j 21:41	2° \approx 04'45			850 Jul 21 j 06:06	0° \approx	
superior conj	849 Aug 08 j 01:57	19° \approx 01'08	1°46'02	superior conj	850 Jul 22 j 18:09	3° \approx 03'50	1°45'02
minimum elong	849 Aug 08 j 02:39	19° \approx 04'34	1°46'01	minimum elong	850 Jul 22 j 17:13	2° \approx 59'06	1°45'01
	849 Aug 13 j 21:00	0° \approx		max. Earth dist.	850 Jul 27 j 17:31	12° \approx 56'11	1.36250 AU
max. Earth dist.	849 Aug 14 j 11:17	1° \approx 05'33	1.38135 AU	evening rise	850 Jul 31 j 17:30	20° \approx 29'53	
evening rise	849 Aug 18 j 06:01	7° \approx 52'07			850 Aug 06 j 01:09	0° \approx	
desc. node	849 Aug 29 j 06:04	26° \approx 04'21		desc. node	850 Aug 16 j 03:06	16° \approx 20'56	
	849 Aug 31 j 19:23	0° \approx			850 Aug 25 j 18:11	0° \approx	
evening max el	849 Sep 22 j 23:18	28° \approx 45'52	24°57'15	evening max el	850 Sep 05 j 10:59	12° \approx 24'06	26°05'35
	849 Sep 24 j 06:24	0° \approx		retrograde	850 Sep 18 j 00:28	19° \approx 32'11	
retrograde	849 Oct 04 j 16:18	5° \approx 33'51		evening set	850 Sep 24 j 07:12	16° \approx 54'55	
evening set	849 Oct 10 j 08:53	3° \approx 10'02		min. Earth dist.	850 Sep 28 j 12:28	12° \approx 23'05	0.66570 AU
	849 Oct 13 j 08:50	30° \approx		inferior conj	850 Sep 29 j 22:08	10° \approx 38'06	-1°23'53
min. Earth dist.	849 Oct 14 j 21:49	28° \approx 02'15	0.67286 AU	minimum elong	850 Sep 30 j 00:18	10° \approx 31'21	1°22'59
inferior conj	849 Oct 15 j 20:16	26° \approx 48'18	-0°27'06	asc. node	850 Oct 04 j 00:43	6° \approx 03'21	
minimum elong	849 Oct 15 j 20:56	26° \approx 46'05	0°26'49	morning rise	850 Oct 05 j 17:47	4° \approx 46'51	
asc. node	849 Oct 17 j 03:40	25° \approx 06'21		direct	850 Oct 08 j 21:04	3° \approx 50'28	
morning rise	849 Oct 21 j 09:08	20° \approx 47'42		morning max el	850 Oct 15 j 18:06	7° \approx 40'44	18°55'18
direct	849 Oct 24 j 22:40	19° \approx 34'26			850 Oct 31 j 15:18	0° \approx	
morning max el	849 Nov 01 j 09:57	23° \approx 50'04	19°49'39	morning set	850 Nov 06 j 15:38	9° \approx 26'47	
	849 Nov 06 j 15:13	0° \approx		desc. node	850 Nov 12 j 02:22	18° \approx 00'34	
desc. node	849 Nov 25 j 05:19	27° \approx 24'38			850 Nov 19 j 17:43	0° \approx	
	849 Nov 26 j 21:36	0° \approx		max. Earth dist.	850 Nov 21 j 17:46	3° \approx 08'51	1.44952 AU
morning set	849 Nov 27 j 04:51	0° \approx 28'00					
max. Earth dist.	849 Dec 09 j 01:29	19° \approx 02'24	1.44147 AU	superior conj	850 Nov 23 j 03:12	5° \approx 20'27	-1°08'50
				minimum elong	850 Nov 22 j 19:11	4° \approx 48'51	1°07'55
superior conj	849 Dec 13 j 19:53	26° \approx 41'23	-1°44'22	evening rise	850 Dec 08 j 10:22	29° \approx 46'29	
minimum elong	849 Dec 13 j 12:34	26° \approx 41'14	1°43'48		850 Dec 08 j 13:42	0° \approx	
	849 Dec 15 j 20:45	0° \approx			850 Dec 28 j 10:17	0° \approx	
evening rise	849 Dec 27 j 07:24	19° \approx 06'51		evening max el	850 Dec 29 j 03:01	0° \approx 44'21	18°42'24
	850 Jan 02 j 17:10	0° \approx		asc. node	850 Dec 31 j 00:03	2° \approx 27'14	
asc. node	850 Jan 13 j 03:00	15° \approx 40'03		retrograde	851 Jan 04 j 19:28	4° \approx 28'28	
evening max el	850 Jan 14 j 15:30	17° \approx 19'59	18°15'46	evening set	851 Jan 07 j 22:59	3° \approx 32'15	
retrograde	850 Jan 21 j 02:57	20° \approx 48'48			851 Jan 11 j 22:18	30° \approx	

inferior conj	851 Jan 13 j 17:14	27° Z 53'23	3°32'13	asc. node	851 Dec 17 j 21:04	18° Z 03'51	
minimum elong	851 Jan 13 j 15:11	27° Z 59'37	3°31'55	retrograde	851 Dec 19 j 15:52	18° Z 21'26	
min. Earth dist.	851 Jan 15 j 13:36	25° Z 39'06	0.65062 AU	evening set	851 Dec 23 j 02:19	17° Z 12'26	
morning rise	851 Jan 19 j 06:57	21° Z 44'39		inferior conj	851 Dec 28 j 15:25	11° Z 18'15	3°05'41
direct	851 Jan 26 j 00:11	18° Z 52'17		minimum elong	851 Dec 28 j 12:45	11° Z 26'52	3°05'03
desc. node	851 Feb 08 j 01:34	26° Z 24'28		min. Earth dist.	851 Dec 29 j 21:06	9° Z 42'03	0.66295 AU
morning max el	851 Feb 08 j 06:44	26° Z 37'21	27°03'19	morning rise	852 Jan 02 j 22:57	5° Z 06'24	
	851 Feb 11 j 10:35	0° \approx		direct	852 Jan 09 j 04:56	2° Z 20'20	
	851 Mar 04 j 13:27	0° X		morning max el	852 Jan 21 j 16:02	9° Z 43'31	25°58'53
morning set	851 Mar 15 j 22:25	20° X 26'28		desc. node	852 Jan 25 j 22:37	14° Z 23'53	
max. Earth dist.	851 Mar 20 j 11:12	29° X 25'04	1.34064 AU		852 Feb 06 j 17:05	0° \approx	
	851 Mar 20 j 18:04	0° Y			852 Feb 25 j 02:15	0° X	
				morning set	852 Feb 26 j 21:38	3° X 18'36	
superior conj	851 Mar 24 j 06:00	7° Y 13'38	-0°47'59	max. Earth dist.	852 Mar 01 j 19:14	10° X 40'46	1.35549 AU
minimum elong	851 Mar 24 j 08:21	7° Y 25'59	0°47'31				
asc. node	851 Mar 28 j 23:23	17° Y 12'37		superior conj	852 Mar 07 j 01:31	21° X 05'43	-1°14'22
evening rise	851 Mar 31 j 15:28	22° Y 49'54		minimum elong	852 Mar 07 j 05:03	21° X 23'32	1°13'49
	851 Apr 04 j 03:40	0° Z			852 Mar 11 j 09:50	0° Y	
evening max el	851 Apr 20 j 21:53	25° Z 34'19	21°38'25	evening rise	852 Mar 14 j 22:30	7° Y 16'06	
	851 Apr 26 j 21:31	0° II		asc. node	852 Mar 14 j 20:26	7° Y 05'29	
retrograde	851 May 03 j 06:08	1° II 36'17			852 Mar 27 j 12:32	0° Z	
evening set	851 May 05 j 17:41	1° II 22'24		evening max el	852 Apr 02 j 03:30	6° Z 46'03	20°18'00
desc. node	851 May 07 j 00:48	1° II 04'41		retrograde	852 Apr 12 j 19:41	11° Z 54'48	
	851 May 10 j 00:49	30° R Z		evening set	852 Apr 14 j 21:40	11° Z 43'54	
inferior conj	851 May 15 j 03:38	27° Z 20'36	-2°17'17	desc. node	852 Apr 22 j 21:49	8° Z 23'04	
minimum elong	851 May 14 j 21:28	27° Z 29'14	2°15'15	inferior conj	852 Apr 23 j 23:17	7° Z 45'50	-0°18'24
min. Earth dist.	851 May 15 j 00:55	27° Z 24'25	0.54976 AU	minimum elong	852 Apr 23 j 22:26	7° Z 47'05	0°18'05
morning rise	851 May 24 j 02:06	23° Z 23'44		min. Earth dist.	852 Apr 25 j 14:17	6° Z 48'33	0.55228 AU
direct	851 May 27 j 04:10	23° Z 02'49		morning rise	852 May 02 j 21:40	3° Z 27'43	
morning max el	851 Jun 08 j 11:51	28° Z 51'45	21°55'50	direct	852 May 06 j 16:36	2° Z 56'32	
	851 Jun 09 j 15:57	0° II		morning max el	852 May 20 j 05:36	9° Z 34'30	23°35'48
asc. node	851 Jun 24 j 22:37	22° II 58'26			852 Jun 04 j 04:55	0° II	
	851 Jun 28 j 10:56	0° Z		asc. node	852 Jun 10 j 19:41	12° II 37'30	
morning set	851 Jun 29 j 12:41	2° Z 13'09		morning set	852 Jun 13 j 00:10	17° II 09'30	
					852 Jun 18 j 23:52	0° Z	
superior conj	851 Jul 06 j 19:00	17° Z 32'38	1°37'13	superior conj	852 Jun 20 j 01:36	2° Z 18'36	1°23'56
minimum elong	851 Jul 06 j 17:02	17° Z 22'16	1°37'02	minimum elong	852 Jun 19 j 23:10	2° Z 05'33	1°23'37
max. Earth dist.	851 Jul 10 j 07:49	24° Z 51'34	1.34687 AU	max. Earth dist.	852 Jun 22 j 07:44	7° Z 07'53	1.33516 AU
	851 Jul 12 j 21:13	0° Q		evening rise	852 Jun 27 j 13:59	17° Z 59'44	
evening rise	851 Jul 14 j 21:38	3° Q 56'37			852 Jul 03 j 20:27	0° Q	
	851 Jul 29 j 20:37	0° R		desc. node	852 Jul 19 j 21:09	25° Q 38'08	
desc. node	851 Aug 03 j 00:08	6° R 15'23			852 Jul 23 j 04:28	0° R	
evening max el	851 Aug 18 j 23:08	25° R 57'34	26°56'45	evening max el	852 Jul 31 j 10:40	9° R 14'54	27°23'20
	851 Aug 23 j 18:27	0° A		retrograde	852 Aug 14 j 00:08	16° R 33'25	
retrograde	851 Sep 01 j 03:18	3° A 14'47		evening set	852 Aug 21 j 03:29	13° R 51'31	
evening set	851 Sep 07 j 22:21	0° A 30'27		min. Earth dist.	852 Aug 24 j 19:56	10° R 31'24	0.64078 AU
	851 Sep 08 j 12:45	30° R R		inferior conj	852 Aug 27 j 06:41	7° R 57'14	-3°15'17
min. Earth dist.	851 Sep 11 j 20:35	26° R 35'24	0.65503 AU	minimum elong	852 Aug 27 j 11:26	7° R 44'45	3°13'47
inferior conj	851 Sep 13 j 18:26	24° R 22'54	-2°20'48	morning rise	852 Sep 02 j 20:21	2° R 34'14	
minimum elong	851 Sep 13 j 22:04	24° R 12'23	2°19'26	direct	852 Sep 05 j 10:29	2° R 00'28	
morning rise	851 Sep 19 j 22:25	18° R 44'02		asc. node	852 Sep 06 j 18:51	2° R 09'46	
asc. node	851 Sep 20 j 21:47	18° R 19'19		morning max el	852 Sep 11 j 23:04	5° R 26'41	17°56'21
direct	851 Sep 22 j 17:52	18° R 00'44			852 Sep 28 j 02:46	0° A	
morning max el	851 Sep 29 j 07:21	21° R 34'51	18°17'12	morning set	852 Sep 29 j 00:43	1° A 33'58	
	851 Oct 05 j 20:41	0° A					
morning set	851 Oct 18 j 06:29	19° A 50'30		superior conj	852 Oct 11 j 21:39	23° A 07'39	0°26'13
	851 Oct 24 j 12:37	0° M		minimum elong	852 Oct 12 j 00:31	23° A 19'19	0°25'49
desc. node	851 Oct 29 j 23:25	8° M 43'31		desc. node	852 Oct 15 j 20:26	29° A 30'06	
					852 Oct 16 j 03:55	0° M	
superior conj	851 Nov 02 j 04:42	13° M 49'42	-0°21'15	max. Earth dist.	852 Oct 17 j 06:44	1° M 46'58	1.44375 AU
minimum elong	851 Nov 02 j 01:56	13° M 38'46	0°20'52	evening rise	852 Oct 28 j 00:39	18° M 35'09	
max. Earth dist.	851 Nov 04 j 12:30	17° M 29'37	1.45028 AU		852 Nov 04 j 12:08	0° X	
	851 Nov 12 j 12:04	0° X		evening max el	852 Nov 24 j 14:35	27° X 41'49	20°24'35
evening rise	851 Nov 18 j 13:57	9° X 29'47			852 Nov 27 j 02:33	0° Z	
greatest brilliancy	851 Nov 30 j 01:13	27° X 18'46	-0.7m	retrograde	852 Dec 02 j 13:35	2° Z 23'05	
	851 Dec 01 j 19:45	0° Z		asc. node	852 Dec 03 j 18:05	2° Z 15'06	
evening max el	851 Dec 12 j 11:17	14° Z 12'39	19°26'03				

evening set	852 Dec 06 j 08:44	0°☾59'34		inferior conj	853 Nov 26 j 00:55	8°♊35'03	1°46'37
	852 Dec 07 j 12:59	30°♊♊		minimum elong	853 Nov 25 j 22:44	8°♊42'36	1°45'48
inferior conj	852 Dec 11 j 18:41	24°♊52'47	2°29'45	min. Earth dist.	853 Nov 26 j 05:45	8°♊18'20	0.67609 AU
minimum elong	852 Dec 11 j 16:01	25°♊01'49	2°28'56	morning rise	853 Dec 01 j 04:55	2°♊22'22	
min. Earth dist.	852 Dec 12 j 11:12	23°♊56'52	0.67138 AU	direct	853 Dec 06 j 05:24	0°♊13'28	
morning rise	852 Dec 16 j 23:08	18°♊39'40		morning max el	853 Dec 16 j 09:45	6°♊16'23	23°09'37
direct	852 Dec 22 j 14:53	16°♊09'33		desc. node	853 Dec 29 j 16:40	22°♊46'02	
morning max el	853 Jan 03 j 00:26	22°♊57'13	24°37'36		854 Jan 03 j 17:57	0°☾	
	853 Jan 09 j 05:50	0°☾		morning set	854 Jan 20 j 04:14	25°☾43'18	
desc. node	853 Jan 11 j 19:38	3°☾15'58			854 Jan 22 j 17:04	0°♊	
	853 Jan 30 j 01:38	0°♊		max. Earth dist.	854 Jan 24 j 12:46	3°♊07'47	1.39557 AU
morning set	853 Feb 08 j 01:37	15°♊09'14					
max. Earth dist.	853 Feb 11 j 17:32	21°♊43'18	1.37438 AU	superior conj	854 Feb 01 j 04:32	16°♊50'04	-1°55'26
	853 Feb 16 j 04:03	0°♊		minimum elong	854 Feb 01 j 07:47	17°♊05'07	1°55'14
					854 Feb 08 j 03:48	0°♊	
superior conj	853 Feb 18 j 10:23	4°♊21'11	-1°37'50	evening rise	854 Feb 10 j 16:31	4°♊51'47	
minimum elong	853 Feb 18 j 14:27	4°♊40'51	1°37'22	asc. node	854 Feb 16 j 14:27	15°♊58'18	
evening rise	853 Feb 26 j 23:46	21°♊19'00			854 Feb 25 j 23:07	0°♊	
asc. node	853 Mar 01 j 17:26	26°♊42'32		evening max el	854 Feb 26 j 22:36	1°♊00'13	18°33'34
	853 Mar 03 j 10:35	0°♊		retrograde	854 Mar 06 j 15:28	4°♊46'34	
evening max el	853 Mar 15 j 20:21	18°♊35'37	19°15'47	evening set	854 Mar 09 j 00:35	4°♊26'10	
retrograde	853 Mar 24 j 20:24	22°♊56'08		inferior conj	854 Mar 16 j 13:22	29°♊57'54	2°47'57
evening set	853 Mar 27 j 00:13	22°♊42'14		minimum elong	854 Mar 16 j 17:26	29°♊49'55	2°46'59
inferior conj	853 Apr 04 j 08:05	18°♊32'38	1°30'28		854 Mar 16 j 12:17	30°♊♊	
minimum elong	853 Apr 04 j 11:29	18°♊26'57	1°29'23	min. Earth dist.	854 Mar 19 j 23:13	27°♊19'09	0.58170 AU
min. Earth dist.	853 Apr 07 j 05:06	16°♊37'58	0.56376 AU	morning rise	854 Mar 24 j 07:25	24°♊35'19	
desc. node	853 Apr 09 j 18:51	15°♊05'20		desc. node	854 Mar 27 j 15:52	23°♊23'57	
morning rise	853 Apr 12 j 19:53	13°♊41'33		direct	854 Mar 30 j 04:24	23°♊07'40	
direct	853 Apr 17 j 15:30	12°♊48'07			854 Apr 12 j 18:24	0°♊	
morning max el	853 May 01 j 20:05	20°♊02'38	25°15'05	morning max el	854 Apr 13 j 13:19	0°♊45'04	26°38'02
	853 May 10 j 07:37	0°♊			854 May 04 j 06:27	0°♊	
	853 May 27 j 11:46	0°♊		morning set	854 May 12 j 22:36	16°♊59'49	
morning set	853 May 28 j 12:00	2°♊06'54		asc. node	854 May 15 j 13:45	22°♊36'04	
asc. node	853 May 28 j 16:43	2°♊31'46			854 May 18 j 23:09	0°♊	
superior conj	853 Jun 04 j 11:38	17°♊13'58	1°06'15	superior conj	854 May 19 j 23:15	2°♊12'29	0°45'02
minimum elong	853 Jun 04 j 09:17	17°♊01'07	1°05'51	minimum elong	854 May 19 j 21:26	2°♊02'25	0°44'41
max. Earth dist.	853 Jun 05 j 15:15	19°♊44'33	1.32733 AU	max. Earth dist.	854 May 20 j 03:02	2°♊33'12	1.32327 AU
	853 Jun 10 j 10:24	0°♊		evening rise	854 May 26 j 21:39	17°♊12'01	
evening rise	853 Jun 11 j 14:56	2°♊27'49			854 Jun 02 j 07:27	0°♊	
	853 Jun 26 j 16:54	0°♊			854 Jun 21 j 23:14	0°♊	
desc. node	853 Jul 06 j 18:10	14°♊15'57		desc. node	854 Jun 23 j 15:11	1°♊49'55	
evening max el	853 Jul 13 j 19:11	22°♊02'22	27°19'37	evening max el	854 Jun 25 j 22:06	4°♊08'14	26°42'48
retrograde	853 Jul 27 j 14:25	29°♊19'11		retrograde	854 Jul 09 j 21:24	11°♊22'52	
evening set	853 Aug 03 j 18:57	26°♊52'02		evening set	854 Jul 16 j 16:17	9°♊24'09	
min. Earth dist.	853 Aug 07 j 08:55	24°♊00'05	0.62314 AU	min. Earth dist.	854 Jul 20 j 11:42	6°♊46'34	0.60307 AU
inferior conj	853 Aug 10 j 07:57	21°♊14'10	-4°03'19	inferior conj	854 Jul 23 j 18:49	4°♊04'45	-4°38'30
minimum elong	853 Aug 10 j 12:54	21°♊02'33	4°02'12	minimum elong	854 Jul 23 j 22:15	3°♊57'40	4°38'06
morning rise	853 Aug 17 j 08:15	16°♊10'34			854 Jul 29 j 16:23	30°♊♊	
direct	853 Aug 19 j 19:36	15°♊43'25		morning rise	854 Jul 31 j 06:10	29°♊23'10	
asc. node	853 Aug 24 j 15:53	17°♊30'22		direct	854 Aug 02 j 17:06	29°♊00'24	
morning max el	853 Aug 26 j 14:26	19°♊10'03	17°53'37		854 Aug 06 j 13:57	0°♊	
	853 Sep 03 j 12:26	0°♊		morning max el	854 Aug 10 j 02:23	2°♊36'51	18°09'59
morning set	853 Sep 11 j 16:28	14°♊19'07		asc. node	854 Aug 11 j 12:57	4°♊07'14	
	853 Sep 20 j 12:54	0°♊		morning set	854 Aug 25 j 23:52	27°♊48'58	
					854 Aug 27 j 03:45	0°♊	
superior conj	853 Sep 22 j 17:18	3°♊45'10	1°04'04				
minimum elong	853 Sep 22 j 22:07	4°♊05'41	1°03'29	superior conj	854 Sep 04 j 14:52	15°♊39'02	1°29'19
max. Earth dist.	853 Sep 29 j 21:17	15°♊41'56	1.43075 AU	minimum elong	854 Sep 04 j 18:43	15°♊56'22	1°28'59
desc. node	853 Oct 02 j 17:28	20°♊17'18		max. Earth dist.	854 Sep 12 j 05:55	28°♊57'14	1.41301 AU
evening rise	853 Oct 07 j 09:43	27°♊41'00			854 Sep 12 j 20:49	0°♊	
	853 Oct 08 j 21:27	0°♊		evening rise	854 Sep 17 j 09:48	7°♊29'32	
	853 Oct 29 j 07:59	0°♊		desc. node	854 Sep 19 j 14:30	11°♊01'17	
evening max el	853 Nov 07 j 12:07	11°♊11'35	21°35'02		854 Oct 02 j 01:26	0°♊	
retrograde	853 Nov 16 j 10:39	16°♊30'40		evening max el	854 Oct 21 j 04:23	24°♊42'24	22°53'12
evening set	853 Nov 20 j 16:25	14°♊51'04			854 Oct 28 j 04:40	0°♊	
asc. node	853 Nov 20 j 15:06	14°♊53'39		retrograde	854 Oct 31 j 05:29	0°♊40'23	

	854 Nov 03 j 01:22	30° κ \mathbb{M}		min. Earth dist.	855 Oct 24 j 22:34	7° \mathbb{M} 06'48	0.67544 AU
evening set	854 Nov 04 j 23:40	28° \mathbb{M} 43'33		asc. node	855 Oct 25 j 09:13	6° \mathbb{M} 30'57	
asc. node	854 Nov 07 j 12:09	26° \mathbb{M} 07'24		inferior conj	855 Oct 25 j 14:48	6° \mathbb{M} 12'05	0°04'50
inferior conj	854 Nov 10 j 08:12	22° \mathbb{M} 22'06	0°57'51	minimum elong	855 Oct 25 j 14:41	6° \mathbb{M} 12'29	0°04'46
minimum elong	854 Nov 10 j 06:54	22° \mathbb{M} 26'37	0°57'18	transit middle	855 Oct 25 j 14:41	6° \mathbb{M} 12'29	0°04'46
min. Earth dist.	854 Nov 10 j 02:21	22° \mathbb{M} 42'19	0.67738 AU	transit begin	855 Oct 25 j 12:04	6° \mathbb{M} 21'17	
morning rise	854 Nov 15 j 14:02	16° \mathbb{M} 12'00		transit end	855 Oct 25 j 17:18	6° \mathbb{M} 03'41	
direct	854 Nov 19 j 23:48	14° \mathbb{M} 25'45		morning rise	855 Oct 31 j 00:32	0° \mathbb{M} 07'01	
morning max el	854 Nov 28 j 23:11	19° \mathbb{M} 42'07	21°44'00		855 Oct 31 j 04:25	30° κ $\underline{\mathbb{A}}$	
	854 Dec 07 j 13:01	0° \mathbb{A}		direct	855 Nov 03 j 20:57	28° $\underline{\mathbb{A}}$ 42'20	
desc. node	854 Dec 16 j 13:43	12° \mathbb{A} 42'58			855 Nov 07 j 20:15	0° \mathbb{M}	
	854 Dec 27 j 23:18	0° \mathbb{B}		morning max el	855 Nov 11 j 19:32	3° \mathbb{M} 17'25	20°27'35
morning set	854 Dec 31 j 01:39	4° \mathbb{B} 53'34			855 Dec 01 j 11:19	0° \mathbb{A}	
max. Earth dist.	855 Jan 06 j 11:47	15° \mathbb{B} 20'04	1.41631 AU	desc. node	855 Dec 03 j 10:46	2° \mathbb{A} 59'14	
				morning set	855 Dec 10 j 00:57	13° \mathbb{A} 05'44	
superior conj	855 Jan 14 j 02:51	28° \mathbb{B} 19'52	-2°03'15	max. Earth dist.	855 Dec 19 j 18:31	28° \mathbb{A} 27'33	1.43382 AU
minimum elong	855 Jan 14 j 03:11	28° \mathbb{B} 21'18	2°03'15		855 Dec 20 j 17:26	0° \mathbb{B}	
	855 Jan 15 j 01:40	0° \approx					
evening rise	855 Jan 24 j 21:18	17° \approx 46'09		superior conj	855 Dec 26 j 00:15	8° \mathbb{B} 39'27	-1°56'30
	855 Jan 31 j 15:30	0° \mathbb{H}		minimum elong	855 Dec 25 j 19:37	8° \mathbb{B} 20'15	1°56'16
asc. node	855 Feb 03 j 11:28	4° \mathbb{H} 45'42		evening rise	856 Jan 07 j 09:58	29° \mathbb{B} 53'34	
evening max el	855 Feb 10 j 07:19	13° \mathbb{H} 51'59	18°11'26		856 Jan 07 j 11:26	0° \approx	
retrograde	855 Feb 17 j 04:27	17° \mathbb{H} 20'06		asc. node	856 Jan 21 j 08:31	22° \approx 55'41	
evening set	855 Feb 19 j 18:53	16° \mathbb{H} 51'03		evening max el	856 Jan 24 j 19:22	27° \approx 02'00	18°08'48
inferior conj	855 Feb 26 j 15:15	12° \mathbb{H} 02'01	3°31'23		856 Jan 29 j 00:24	0° \mathbb{H}	
minimum elong	855 Feb 26 j 17:42	11° \mathbb{H} 56'28	3°31'04	retrograde	856 Jan 31 j 07:30	0° \mathbb{H} 26'34	
min. Earth dist.	855 Mar 01 j 23:01	9° \mathbb{H} 02'10	0.60268 AU		856 Feb 02 j 14:56	30° κ \approx	
morning rise	855 Mar 05 j 14:27	6° \mathbb{H} 17'36		evening set	856 Feb 03 j 02:49	29° \approx 47'36	
direct	855 Mar 12 j 05:46	4° \mathbb{H} 12'26		inferior conj	856 Feb 09 j 10:27	24° \approx 37'52	3°46'59
desc. node	855 Mar 14 j 12:53	4° \mathbb{H} 26'45		minimum elong	856 Feb 09 j 10:44	24° \approx 37'06	3°46'59
morning max el	855 Mar 26 j 12:21	12° \mathbb{H} 01'58	27°31'26	min. Earth dist.	856 Feb 12 j 06:47	21° \approx 41'52	0.62348 AU
	855 Apr 09 j 15:47	0° \mathbb{Y}		morning rise	856 Feb 15 j 17:31	18° \approx 40'16	
	855 Apr 26 j 10:22	0° \mathbb{B}		direct	856 Feb 22 j 16:44	16° \approx 05'44	
morning set	855 Apr 27 j 06:13	1° \mathbb{B} 42'11		desc. node	856 Feb 29 j 09:56	18° \approx 08'57	
asc. node	855 May 02 j 10:48	12° \mathbb{B} 45'52		morning max el	856 Mar 07 j 17:07	23° \approx 59'19	27°48'23
max. Earth dist.	855 May 03 j 15:19	15° \mathbb{B} 21'32	1.32293 AU		856 Mar 13 j 03:24	0° \mathbb{H}	
					856 Apr 01 j 22:47	0° \mathbb{Y}	
superior conj	855 May 04 j 10:47	17° \mathbb{B} 08'15	0°21'02	morning set	856 Apr 10 j 08:42	16° \mathbb{Y} 05'48	
minimum elong	855 May 04 j 09:51	17° \mathbb{B} 03'06	0°20'51	max. Earth dist.	856 Apr 16 j 00:16	27° \mathbb{Y} 55'36	1.32651 AU
	855 May 10 j 08:26	0° \mathbb{I}			856 Apr 16 j 23:21	0° \mathbb{B}	
evening rise	855 May 11 j 07:54	2° \mathbb{I} 04'49					
	855 May 26 j 10:51	0° \mathbb{E}		superior conj	856 Apr 17 j 20:26	1° \mathbb{B} 54'13	-0°05'02
evening max el	855 Jun 07 j 18:14	15° \mathbb{E} 29'06	25°35'26	minimum elong	856 Apr 17 j 20:41	1° \mathbb{B} 55'31	0°04'59
desc. node	855 Jun 10 j 12:12	17° \mathbb{E} 54'04		behind sun begin	856 Apr 17 j 15:45	1° \mathbb{B} 28'46	
retrograde	855 Jun 21 j 19:12	22° \mathbb{E} 39'18		behind sun end	856 Apr 18 j 01:37	2° \mathbb{B} 22'17	
evening set	855 Jun 27 j 15:15	21° \mathbb{E} 18'55		asc. node	856 Apr 18 j 07:51	2° \mathbb{B} 56'08	
min. Earth dist.	855 Jul 02 j 06:28	18° \mathbb{E} 37'33	0.58259 AU	evening rise	856 Apr 24 j 19:39	16° \mathbb{B} 58'13	
inferior conj	855 Jul 05 j 11:49	16° \mathbb{E} 20'15	-4°50'48		856 May 01 j 06:47	0° \mathbb{I}	
minimum elong	855 Jul 05 j 11:28	16° \mathbb{E} 20'53	4°50'48	evening max el	856 May 19 j 09:12	26° \mathbb{I} 13'05	24°06'38
morning rise	855 Jul 13 j 10:11	12° \mathbb{E} 00'58			856 May 23 j 23:49	0° \mathbb{E}	
direct	855 Jul 15 j 22:47	11° \mathbb{E} 40'56		desc. node	856 May 27 j 09:13	1° \mathbb{E} 53'14	
morning max el	855 Jul 24 j 07:49	15° \mathbb{E} 38'24	18°46'39	retrograde	856 Jun 02 j 05:02	3° \mathbb{E} 10'19	
asc. node	855 Jul 29 j 10:01	21° \mathbb{E} 45'26		evening set	856 Jun 06 j 15:37	2° \mathbb{E} 26'36	
	855 Aug 03 j 11:41	0° \mathbb{Q}			856 Jun 11 j 21:08	30° κ \mathbb{I}	
morning set	855 Aug 09 j 18:27	11° \mathbb{Q} 52'01		min. Earth dist.	856 Jun 12 j 20:14	29° \mathbb{I} 25'40	0.56471 AU
				inferior conj	856 Jun 15 j 08:39	27° \mathbb{I} 51'54	-4°26'57
superior conj	855 Aug 18 j 09:09	28° \mathbb{Q} 34'45	1°42'49	minimum elong	856 Jun 15 j 03:19	28° \mathbb{I} 00'15	4°26'09
minimum elong	855 Aug 18 j 11:01	28° \mathbb{Q} 43'32	1°42'44	morning rise	856 Jun 23 j 17:45	23° \mathbb{I} 51'13	
	855 Aug 19 j 03:13	0° \mathbb{P}		direct	856 Jun 26 j 09:37	23° \mathbb{I} 32'35	
max. Earth dist.	855 Aug 25 j 09:53	11° \mathbb{P} 28'47	1.39297 AU	morning max el	856 Jul 06 j 03:45	28° \mathbb{I} 04'06	19°44'33
evening rise	855 Aug 29 j 09:48	18° \mathbb{P} 25'29			856 Jul 08 j 01:20	0° \mathbb{E}	
	855 Sep 05 j 10:39	0° \mathbb{A}		asc. node	856 Jul 15 j 07:06	10° \mathbb{E} 10'25	
desc. node	855 Sep 06 j 11:32	1° \mathbb{A} 38'27		morning set	856 Jul 23 j 20:45	26° \mathbb{E} 18'33	
	855 Sep 26 j 09:43	0° \mathbb{M}			856 Jul 25 j 16:33	0° \mathbb{Q}	
evening max el	855 Oct 03 j 17:21	8° \mathbb{M} 16'54	24°13'13				
retrograde	855 Oct 14 j 20:44	14° \mathbb{M} 48'58		superior conj	856 Jul 31 j 18:39	12° \mathbb{Q} 16'18	1°46'32
evening set	855 Oct 20 j 04:50	12° \mathbb{M} 34'52		minimum elong	856 Jul 31 j 18:36	12° \mathbb{Q} 16'01	1°46'32

max. Earth dist.	856 Aug 06 j 13:56	23°♎28'45	1.37309 AU	max. Earth dist.	857 Jul 19 j 23:30	5°♏19'50	1.35546 AU
evening rise	856 Aug 10 j 09:28	0°♎28'33		evening rise	857 Jul 24 j 04:34	13°♎28'12	
	856 Aug 10 j 03:07	0°♎			857 Aug 02 j 12:17	0°♎	
desc. node	856 Aug 23 j 08:34	22°♎03'59		desc. node	857 Aug 10 j 05:36	12°♎11'57	
	856 Aug 28 j 15:55	0°♏			857 Aug 23 j 12:50	0°♏	
evening max el	856 Sep 15 j 05:14	21°♏55'09	25°28'02	evening max el	857 Aug 28 j 17:09	5°♏32'07	26°29'54
retrograde	856 Sep 27 j 07:32	28°♏52'21		retrograde	857 Sep 10 j 13:14	12°♏44'35	
evening set	856 Oct 03 j 06:12	26°♏22'32		evening set	857 Sep 17 j 01:44	10°♏03'17	
min. Earth dist.	856 Oct 07 j 15:54	21°♏29'44	0.67024 AU	min. Earth dist.	857 Sep 21 j 03:55	5°♏47'20	0.66164 AU
inferior conj	856 Oct 08 j 18:56	20°♏02'34	-0°51'03	inferior conj	857 Sep 22 j 18:40	3°♏50'12	-1°48'10
minimum elong	856 Oct 08 j 20:14	19°♏58'23	0°50'29	minimum elong	857 Sep 22 j 21:29	3°♏41'42	1°47'02
asc. node	856 Oct 11 j 06:17	16°♏59'26			857 Sep 26 j 05:12	30°♎♎	
morning rise	856 Oct 14 j 10:27	14°♏05'27		asc. node	857 Sep 28 j 03:21	28°♎25'54	
direct	856 Oct 17 j 19:28	12°♏59'36		morning rise	857 Sep 28 j 17:42	28°♎03'59	
morning max el	856 Oct 24 j 23:40	17°♏03'01	19°24'36	direct	857 Oct 01 j 17:26	27°♎13'34	
	856 Nov 03 j 23:07	0°♎			857 Oct 07 j 11:03	0°♏	
morning set	856 Nov 18 j 00:44	21°♎28'36		morning max el	857 Oct 08 j 10:17	0°♏55'27	18°37'05
desc. node	856 Nov 19 j 07:49	23°♎29'17			857 Oct 28 j 07:14	0°♎	
	856 Nov 23 j 12:10	0°♎		morning set	857 Oct 28 j 22:46	1°♎01'59	
max. Earth dist.	856 Dec 01 j 08:40	12°♎19'58	1.44576 AU	desc. node	857 Nov 06 j 04:51	14°♎08'22	
superior conj	856 Dec 04 j 19:22	17°♎48'24	-1°31'24	superior conj	857 Nov 13 j 21:22	26°♎14'40	-0°49'26
minimum elong	856 Dec 04 j 10:56	17°♎14'46	1°30'35	minimum elong	857 Nov 13 j 15:04	25°♎49'56	0°48'37
	856 Dec 12 j 08:39	0°♎		max. Earth dist.	857 Nov 14 j 02:54	26°♎36'23	1.45074 AU
evening rise	856 Dec 19 j 02:13	11°♎06'56			857 Nov 16 j 06:44	0°♎	
	856 Dec 30 j 13:53	0°♏		evening rise	857 Nov 29 j 19:01	21°♎21'34	
asc. node	857 Jan 07 j 05:34	10°♏17'13			857 Dec 05 j 05:07	0°♎	
evening max el	857 Jan 07 j 07:51	10°♏23'02	18°24'57	greatest brilliancy	857 Dec 08 j 03:28	4°♎39'08	-0.8m
retrograde	857 Jan 13 j 20:18	13°♏56'47		evening max el	857 Dec 21 j 18:09	23°♎48'45	18°58'57
evening set	857 Jan 16 j 20:39	13°♏07'02		asc. node	857 Dec 25 j 02:38	26°♎35'58	
inferior conj	857 Jan 22 j 18:55	7°♏37'59	3°42'04	retrograde	857 Dec 28 j 14:55	27°♎42'26	
minimum elong	857 Jan 22 j 17:31	7°♏42'00	3°41'57	evening set	857 Dec 31 j 21:13	26°♎40'51	
min. Earth dist.	857 Jan 25 j 00:04	5°♏05'11	0.64173 AU	inferior conj	858 Jan 06 j 12:57	20°♎54'51	3°22'15
morning rise	857 Jan 28 j 13:50	1°♏32'27		minimum elong	858 Jan 06 j 10:34	21°♎02'20	3°21'49
	857 Jan 30 j 19:01	30°♎♎		min. Earth dist.	858 Jan 08 j 02:47	18°♎56'31	0.65632 AU
direct	857 Feb 04 j 11:19	28°♎42'39		morning rise	858 Jan 11 j 23:37	14°♎44'30	
	857 Feb 09 j 12:49	0°♏		direct	858 Jan 18 j 12:26	11°♎53'43	
desc. node	857 Feb 15 j 06:59	3°♏57'02		morning max el	858 Jan 31 j 11:40	19°♎31'01	26°38'43
morning max el	857 Feb 18 j 01:49	6°♏33'02	27°29'04	desc. node	858 Feb 02 j 04:01	21°♎15'57	
	857 Mar 08 j 01:21	0°♎			858 Feb 09 j 10:53	0°♏	
morning set	857 Mar 25 j 03:29	0°♎02'40			858 Mar 01 j 02:22	0°♎	
	857 Mar 25 j 02:57	0°♎		morning set	858 Mar 08 j 11:06	13°♎21'47	
max. Earth dist.	857 Mar 30 j 02:04	10°♎03'39	1.33427 AU	max. Earth dist.	858 Mar 12 j 17:11	21°♎37'42	1.34645 AU
					858 Mar 16 j 20:15	0°♎	
superior conj	857 Apr 02 j 02:24	16°♎24'33	-0°32'13	superior conj	858 Mar 17 j 02:27	0°♎32'02	-0°59'23
minimum elong	857 Apr 02 j 03:59	16°♎32'57	0°31'54	minimum elong	858 Mar 17 j 05:21	0°♎47'00	0°58'52
asc. node	857 Apr 05 j 04:54	23°♎02'57		asc. node	858 Mar 23 j 01:56	13°♎01'51	
	857 Apr 08 j 11:00	0°♎		evening rise	858 Mar 24 j 16:19	16°♎21'38	
evening rise	857 Apr 09 j 07:06	1°♎46'06			858 Mar 31 j 14:34	0°♎	
	857 Apr 25 j 04:44	0°♎		evening max el	858 Apr 12 j 23:39	17°♎35'42	21°02'07
evening max el	857 May 01 j 00:38	6°♎45'08	22°30'49	retrograde	858 Apr 24 j 15:49	23°♎16'06	
retrograde	857 May 14 j 02:11	13°♎12'50		evening set	858 Apr 26 j 21:19	23°♎04'26	
desc. node	857 May 14 j 06:14	13°♎12'46		desc. node	858 May 01 j 03:13	21°♎44'51	
evening set	857 May 17 j 03:33	12°♎52'16		inferior conj	858 May 06 j 05:22	19°♎05'53	-1°27'44
min. Earth dist.	857 May 25 j 08:12	9°♎19'20	0.55284 AU	minimum elong	858 May 06 j 01:13	19°♎11'44	1°26'16
inferior conj	857 May 26 j 11:20	8°♎40'51	-3°16'48	min. Earth dist.	858 May 06 j 20:51	18°♎43'58	0.54964 AU
minimum elong	857 May 26 j 03:48	8°♎51'33	3°14'43	morning rise	858 May 15 j 05:03	15°♎02'20	
morning rise	857 Jun 04 j 06:07	4°♎48'08		direct	858 May 18 j 12:49	14°♎38'30	
direct	857 Jun 07 j 03:07	4°♎29'12		morning max el	858 May 31 j 10:50	20°♎48'55	22°37'39
morning max el	857 Jun 18 j 12:28	9°♎47'04	21°02'58		858 Jun 08 j 05:19	0°♎	
asc. node	857 Jul 02 j 04:09	29°♎10'52		asc. node	858 Jun 19 j 01:12	18°♎37'59	
	857 Jul 02 j 14:41	0°♎		morning set	858 Jun 22 j 14:43	25°♎54'42	
morning set	857 Jul 08 j 04:11	11°♎01'26			858 Jun 24 j 13:13	0°♎	
superior conj	857 Jul 15 j 14:54	26°♎30'54	1°42'28	superior conj	858 Jun 29 j 18:32	11°♎08'21	1°32'11
minimum elong	857 Jul 15 j 13:28	26°♎23'26	1°42'22	minimum elong	858 Jun 29 j 16:18	10°♎56'30	1°31'57
	857 Jul 17 j 07:46	0°♎					

max. Earth dist.	858 Jul 02 j 17:54	17°☿23'11	1.34136 AU	morning set	859 Jun 07 j 02:32	10°♂52'02	
evening rise	858 Jul 07 j 14:23	27°☿11'49					
	858 Jul 09 j 01:00	0°♂		superior conj	859 Jun 14 j 02:51	25°♂59'21	1°16'56
	858 Jul 26 j 18:51	0°♂		minimum elong	859 Jun 14 j 00:23	25°♂46'03	1°16'34
desc. node	858 Jul 28 j 02:36	1°♂54'32			859 Jun 15 j 23:27	0°♂	
evening max el	858 Aug 11 j 05:01	18°♂59'44	27°11'21	max. Earth dist.	859 Jun 15 j 21:10	29°♂47'41	1.33129 AU
retrograde	858 Aug 24 j 13:39	26°♂18'41		evening rise	859 Jun 21 j 10:46	11°☿26'47	
evening set	858 Aug 31 j 13:01	23°♂33'38			859 Jul 01 j 07:00	0°♂	
min. Earth dist.	858 Sep 04 j 08:24	19°♂54'16	0.64941 AU	desc. node	859 Jul 14 j 23:37	21°♂00'10	
inferior conj	858 Sep 06 j 11:51	17°♂31'18	-2°44'25		859 Jul 22 j 13:08	0°♂	
minimum elong	858 Sep 06 j 16:01	17°♂19'40	2°42'56	evening max el	859 Jul 24 j 15:27	2°♂05'35	27°25'43
morning rise	858 Sep 12 j 19:51	11°♂59'06		retrograde	859 Aug 07 j 08:05	9°♂24'26	
asc. node	858 Sep 15 j 00:23	11°♂21'46		evening set	859 Aug 14 j 12:51	6°♂47'03	
direct	858 Sep 15 j 12:41	11°♂20'21		min. Earth dist.	859 Aug 18 j 03:34	3°♂40'04	0.63362 AU
morning max el	858 Sep 22 j 01:01	14°♂50'02	18°06'14	inferior conj	859 Aug 20 j 19:48	0°♂59'06	-3°36'45
	858 Oct 02 j 19:48	0°♂		minimum elong	859 Aug 21 j 00:47	0°♂46'34	3°35'23
morning set	858 Oct 10 j 01:50	12°♂01'26			859 Aug 21 j 19:34	30°♂♂	
	858 Oct 21 j 00:41	0°♂		morning rise	859 Aug 27 j 13:55	25°♂44'01	
				direct	859 Aug 30 j 02:25	25°♂13'33	
superior conj	858 Oct 24 j 03:17	4°♂58'55	-0°00'23	asc. node	859 Sep 01 j 21:25	25°♂51'36	
minimum elong	858 Oct 24 j 03:13	4°♂58'40	0°00'23	morning max el	859 Sep 05 j 16:58	28°♂39'15	17°52'53
behind sun begin	858 Oct 23 j 16:31	4°♂15'55			859 Sep 06 j 23:15	0°♂	
behind sun end	858 Oct 24 j 13:56	5°♂41'22		morning set	859 Sep 22 j 05:59	24°♂13'05	
desc. node	858 Oct 24 j 01:55	4°♂53'26			859 Sep 25 j 13:37	0°♂	
max. Earth dist.	858 Oct 27 j 21:40	10°♂57'25	1.44834 AU				
	858 Nov 09 j 02:27	0°♂		superior conj	859 Oct 04 j 07:05	14°♂49'21	0°43'44
evening rise	858 Nov 09 j 14:06	0°♂45'05		minimum elong	859 Oct 04 j 11:15	15°♂06'37	0°43'11
greatest brilliancy	858 Nov 22 j 21:26	21°♂06'33	-0.7m	max. Earth dist.	859 Oct 10 j 14:03	25°♂04'57	1.43892 AU
	858 Nov 29 j 01:36	0°♂		desc. node	859 Oct 10 j 22:56	25°♂40'36	
evening max el	858 Dec 05 j 00:22	7°♂16'44	19°49'13		859 Oct 13 j 16:08	0°♂	
asc. node	858 Dec 11 j 23:39	11°♂37'27		evening rise	859 Oct 19 j 21:49	9°♂44'32	
retrograde	858 Dec 12 j 12:14	11°♂38'59			859 Nov 02 j 08:13	0°♂	
evening set	858 Dec 16 j 02:04	10°♂24'07		evening max el	859 Nov 18 j 01:13	20°♂45'58	20°53'22
inferior conj	858 Dec 21 j 13:35	4°♂24'02	2°51'27	retrograde	859 Nov 26 j 09:54	25°♂43'05	
minimum elong	858 Dec 21 j 10:52	4°♂33'04	2°50'43	asc. node	859 Nov 28 j 20:39	25°♂09'20	
min. Earth dist.	858 Dec 22 j 13:29	3°♂04'50	0.66698 AU	evening set	859 Nov 30 j 09:14	24°♂13'09	
	858 Dec 25 j 00:55	30°♂♂		inferior conj	859 Dec 05 j 18:23	18°♂02'08	2°12'16
morning rise	858 Dec 26 j 19:26	28°♂11'07		minimum elong	859 Dec 05 j 15:52	18°♂10'45	2°11'24
direct	859 Jan 01 j 19:29	25°♂30'57		min. Earth dist.	859 Dec 06 j 05:52	17°♂22'48	0.67381 AU
	859 Jan 10 j 23:48	0°♂		morning rise	859 Dec 10 j 22:19	11°♂48'46	
morning max el	859 Jan 13 j 20:42	2°♂41'21	25°25'44	direct	859 Dec 16 j 07:39	9°♂27'00	
desc. node	859 Jan 20 j 01:04	9°♂39'38		morning max el	859 Dec 27 j 05:01	15°♂56'50	24°00'19
	859 Feb 03 j 15:26	0°♂		desc. node	860 Jan 06 j 22:08	28°♂49'28	
morning set	859 Feb 19 j 02:53	25°♂49'33			860 Jan 07 j 19:00	0°♂	
	859 Feb 21 j 09:30	0°♂			860 Jan 27 j 15:04	0°♂	
max. Earth dist.	859 Feb 22 j 20:25	2°♂43'17	1.36305 AU	morning set	860 Jan 31 j 20:51	7°♂09'35	
				max. Earth dist.	860 Feb 04 j 15:54	13°♂48'23	1.38319 AU
superior conj	859 Feb 28 j 17:50	14°♂08'59	-1°24'51				
minimum elong	859 Feb 28 j 21:41	14°♂28'11	1°24'18	superior conj	860 Feb 11 j 21:02	27°♂06'15	-1°46'15
evening rise	859 Mar 08 j 21:09	0°♂38'10		minimum elong	860 Feb 12 j 00:58	27°♂24'55	1°45'52
	859 Mar 08 j 13:37	0°♂			860 Feb 13 j 09:23	0°♂	
asc. node	859 Mar 09 j 22:58	2°♂48'14		evening rise	860 Feb 20 j 19:11	14°♂29'02	
evening max el	859 Mar 26 j 10:06	29°♂03'05	19°49'11	asc. node	860 Feb 24 j 19:59	22°♂17'01	
	859 Mar 27 j 10:59	0°♂			860 Feb 29 j 02:45	0°♂	
retrograde	859 Apr 05 j 08:52	3°♂50'15		evening max el	860 Mar 08 j 07:26	11°♂09'10	18°55'29
evening set	859 Apr 07 j 10:31	3°♂38'45		retrograde	860 Mar 16 j 16:44	15°♂12'45	
	859 Apr 15 j 14:32	30°♂♂		evening set	860 Mar 18 j 22:45	14°♂56'24	
inferior conj	859 Apr 16 j 05:14	29°♂37'22	0°30'44	inferior conj	860 Mar 26 j 22:23	10°♂39'47	2°07'38
minimum elong	859 Apr 16 j 06:34	29°♂35'18	0°30'16	minimum elong	860 Mar 27 j 02:29	10°♂32'27	2°06'27
desc. node	859 Apr 18 j 00:15	28°♂30'54		min. Earth dist.	860 Mar 30 j 03:11	8°♂23'52	0.57077 AU
min. Earth dist.	859 Apr 18 j 11:01	28°♂14'30	0.55610 AU	desc. node	860 Apr 03 j 21:16	5°♂40'46	
morning rise	859 Apr 25 j 00:15	25°♂05'25		morning rise	860 Apr 04 j 03:09	5°♂34'32	
direct	859 Apr 29 j 04:51	24°♂26'26		direct	860 Apr 09 j 10:17	4°♂27'19	
	859 May 11 j 14:04	0°♂		morning max el	860 Apr 23 j 17:29	11°♂53'24	25°53'11
morning max el	859 May 13 j 02:35	1°♂22'41	24°19'04		860 May 07 j 17:49	0°♂	
	859 Jun 01 j 17:38	0°♂		morning set	860 May 21 j 14:03	25°♂48'13	
asc. node	859 Jun 05 j 22:13	8°♂23'59		asc. node	860 May 22 j 19:16	28°♂23'11	

	860 May 23 j 13:20	0°♊		superior conj	861 May 13 j 01:35	25°♌54'27	0°35'10
				minimum elong	861 May 13 j 00:05	25°♌46'14	0°34'52
superior conj	860 May 28 j 13:48	10°♊57'04	0°57'39	max. Earth dist.	861 May 12 j 19:29	25°♌20'54	1.32272 AU
minimum elong	860 May 28 j 11:37	10°♊45'06	0°57'16		861 May 14 j 22:16	0°♊	
max. Earth dist.	860 May 29 j 06:54	12°♊30'42	1.32516 AU	evening rise	861 May 19 j 23:01	10°♊51'35	
evening rise	860 Jun 04 j 14:31	26°♊03'11			861 May 29 j 19:07	0°♌	
	860 Jun 06 j 12:46	0°♌		desc. node	861 Jun 17 j 17:36	26°♌12'40	
	860 Jun 23 j 19:48	0°♎		evening max el	861 Jun 17 j 22:22	26°♌24'04	26°17'30
desc. node	860 Jun 30 j 20:36	9°♎13'29			861 Jun 22 j 05:58	0°♎	
evening max el	860 Jul 05 j 22:06	14°♎37'13	27°08'02	retrograde	861 Jul 01 j 22:25	3°♎36'21	
retrograde	860 Jul 19 j 19:28	21°♎52'46		evening set	861 Jul 08 j 09:23	1°♎53'21	
evening set	860 Jul 26 j 21:11	19°♎36'31			861 Jul 11 j 11:04	30°♎♌	
min. Earth dist.	860 Jul 30 j 12:21	16°♎52'17	0.61484 AU	min. Earth dist.	861 Jul 12 j 11:15	29°♌16'30	0.59431 AU
inferior conj	860 Aug 02 j 15:25	14°♎06'05	-4°20'19	inferior conj	861 Jul 15 j 19:06	26°♌42'50	-4°47'17
minimum elong	860 Aug 02 j 19:59	13°♎55'55	4°19'30	minimum elong	861 Jul 15 j 21:13	26°♌38'44	4°47'08
morning rise	860 Aug 09 j 20:22	9°♎11'14		morning rise	861 Jul 23 j 11:08	22°♌10'40	
direct	860 Aug 12 j 07:13	8°♎46'11		direct	861 Jul 25 j 22:45	21°♌49'04	
asc. node	860 Aug 18 j 18:28	11°♎46'05		morning max el	861 Aug 02 j 16:41	25°♌32'43	18°23'01
morning max el	860 Aug 19 j 07:11	12°♎16'02	17°58'03	asc. node	861 Aug 05 j 15:33	28°♌50'33	
	860 Aug 31 j 04:34	0°♐			861 Aug 06 j 12:42	0°♎	
morning set	860 Sep 04 j 05:03	7°♐18'52		morning set	861 Aug 18 j 17:44	21°♎04'23	
					861 Aug 23 j 09:55	0°♐	
superior conj	860 Sep 14 j 14:10	25°♐59'59	1°16'19	superior conj	861 Aug 27 j 21:18	8°♐22'10	1°36'23
minimum elong	860 Sep 14 j 18:49	26°♐20'14	1°15'49	minimum elong	861 Aug 28 j 00:21	8°♐36'11	1°36'10
	860 Sep 16 j 21:38	0°♑		max. Earth dist.	861 Sep 04 j 09:07	21°♐43'02	1.40467 AU
max. Earth dist.	860 Sep 22 j 02:07	8°♑43'59	1.42372 AU	evening rise	861 Sep 08 j 21:25	29°♐20'01	
desc. node	860 Sep 26 j 19:58	16°♑26'35			861 Sep 09 j 07:06	0°♑	
evening rise	860 Sep 28 j 11:34	19°♑04'04		desc. node	861 Sep 13 j 16:59	7°♑08'05	
	860 Oct 05 j 12:56	0°♒			861 Sep 29 j 01:20	0°♒	
	860 Oct 27 j 00:14	0°♓		evening max el	861 Oct 13 j 11:12	17°♒48'53	23°27'24
evening max el	860 Oct 30 j 20:30	4°♓16'17	22°07'45	retrograde	861 Oct 23 j 23:25	24°♒01'38	
retrograde	860 Nov 09 j 06:03	9°♓51'34		evening set	861 Oct 28 j 23:30	21°♒57'13	
evening set	860 Nov 13 j 16:55	8°♓04'50		asc. node	861 Nov 01 j 14:45	17°♒55'51	
asc. node	860 Nov 14 j 17:42	7°♓09'02		inferior conj	861 Nov 03 j 08:30	15°♒34'49	0°35'48
inferior conj	860 Nov 19 j 01:17	1°♓46'19	1°26'33	minimum elong	861 Nov 03 j 07:39	15°♒37'41	0°35'26
minimum elong	860 Nov 18 j 23:26	1°♓52'44	1°25'48	min. Earth dist.	861 Nov 02 j 22:10	16°♒10'09	0.67699 AU
min. Earth dist.	860 Nov 19 j 01:33	1°♓45'25	0.67709 AU	morning rise	861 Nov 08 j 15:46	9°♒26'50	
	860 Nov 20 j 08:17	30°♒♒		direct	861 Nov 12 j 19:41	7°♒50'04	
morning rise	860 Nov 24 j 05:48	25°♒34'33		morning max el	861 Nov 21 j 07:42	12°♒47'21	21°10'07
direct	860 Nov 29 j 00:02	23°♒35'03			861 Dec 04 j 18:35	0°♓	
morning max el	860 Dec 08 j 15:28	29°♒17'21	22°32'22	desc. node	861 Dec 10 j 16:15	8°♓37'59	
	860 Dec 09 j 08:04	0°♓		morning set	861 Dec 21 j 21:16	25°♓46'34	
desc. node	860 Dec 23 j 19:11	18°♓31'55			861 Dec 24 j 13:24	0°♓	
	860 Dec 31 j 14:05	0°♔		max. Earth dist.	861 Dec 29 j 15:00	8°♔10'23	1.42437 AU
morning set	861 Jan 11 j 11:01	17°♔06'44					
max. Earth dist.	861 Jan 16 j 12:07	25°♔31'13	1.40465 AU	superior conj	862 Jan 05 j 19:42	20°♔12'32	-2°02'26
	861 Jan 19 j 02:45	0°♕		minimum elong	862 Jan 05 j 18:05	20°♔05'37	2°02'25
					862 Jan 11 j 10:47	0°♕	
superior conj	861 Jan 24 j 07:26	9°♕11'32	-2°00'14	evening rise	862 Jan 17 j 05:48	10°♕21'45	
minimum elong	861 Jan 24 j 09:45	9°♕21'57	2°00'08	asc. node	862 Jan 28 j 14:04	29°♕53'52	
evening rise	861 Feb 03 j 07:18	27°♕46'03			862 Jan 28 j 15:42	0°♕	
	861 Feb 04 j 11:43	0°♖		evening max el	862 Feb 02 j 23:19	6°♖46'04	18°07'51
asc. node	861 Feb 10 j 17:01	11°♖21'21		retrograde	862 Feb 09 j 15:25	10°♖11'13	
evening max el	861 Feb 19 j 12:52	23°♖46'06	18°21'44	evening set	862 Feb 12 j 07:56	9°♖38'03	
retrograde	861 Feb 26 j 19:42	27°♖22'33		inferior conj	862 Feb 18 j 22:24	4°♖39'44	3°40'55
evening set	861 Mar 01 j 07:19	26°♖58'29		minimum elong	862 Feb 18 j 23:55	4°♖36'04	3°40'48
inferior conj	861 Mar 08 j 12:38	22°♖21'17	3°10'15	min. Earth dist.	862 Feb 22 j 01:54	1°♖38'55	0.61174 AU
minimum elong	861 Mar 08 j 16:11	22°♖13'52	3°09'34		862 Feb 23 j 23:40	30°♖♕	
min. Earth dist.	861 Mar 11 j 23:05	19°♖30'44	0.59050 AU	morning rise	862 Feb 25 j 14:16	28°♕48'40	
morning rise	861 Mar 15 j 22:34	16°♖48'33		direct	862 Mar 04 j 10:03	26°♕29'55	
desc. node	861 Mar 21 j 18:19	15°♖05'15		desc. node	862 Mar 08 j 15:23	27°♕18'32	
direct	861 Mar 22 j 04:38	15°♖04'46			862 Mar 13 j 12:32	0°♖	
morning max el	861 Apr 05 j 12:47	22°♖47'26	27°04'58	morning max el	862 Mar 18 j 14:36	4°♖21'41	27°43'18
	861 Apr 11 j 22:38	0°♗			862 Apr 06 j 15:37	0°♗	
	861 Apr 30 j 16:52	0°♘		morning set	862 Apr 20 j 05:19	25°♗11'37	
morning set	861 May 05 j 23:36	10°♘36'48			862 Apr 22 j 12:39	0°♘	
asc. node	861 May 09 j 16:20	18°♘29'53					

max. Earth dist.	862 Apr 26 j 06:58	8°♄04'53	1.32400 AU	morning set	863 Apr 04 j 04:55	9°♄25'22	
asc. node	862 Apr 26 j 13:23	8°♄39'49		max. Earth dist.	863 Apr 09 j 13:20	20°♄29'14	1.32922 AU
superior conj	862 Apr 27 j 12:30	10°♄45'58	0°10'11	superior conj	863 Apr 11 j 20:50	25°♄26'08	-0°16'29
minimum elong	862 Apr 27 j 12:02	10°♄43'25	0°10'05	minimum elong	863 Apr 11 j 21:38	25°♄30'25	0°16'19
behind sun begin	862 Apr 27 j 08:05	10°♄21'51		asc. node	863 Apr 13 j 10:26	28°♄49'07	
behind sun end	862 Apr 27 j 15:59	11°♄04'59			863 Apr 13 j 23:31	0°♄	
evening rise	862 May 04 j 10:08	25°♄44'46		evening rise	863 Apr 18 j 21:59	10°♄36'32	
	862 May 06 j 10:57	0°♄			863 Apr 28 j 22:04	0°♄	
	862 May 24 j 02:21	0°♄		evening max el	863 May 12 j 05:45	18°♄00'36	23°25'49
evening max el	862 May 30 j 15:37	7°♄25'41	24°59'22	desc. node	863 May 22 j 11:39	24°♄22'56	
desc. node	862 Jun 04 j 14:37	11°♄27'42		retrograde	863 May 25 j 20:11	24°♄48'34	
retrograde	862 Jun 13 j 15:18	14°♄32'13		evening set	863 May 29 j 15:30	24°♄16'45	
evening set	862 Jun 18 j 22:14	13°♄28'07		min. Earth dist.	863 Jun 05 j 15:57	21°♄03'30	0.55864 AU
min. Earth dist.	862 Jun 24 j 03:05	10°♄40'21	0.57444 AU	inferior conj	863 Jun 07 j 16:03	19°♄52'06	-4°03'01
inferior conj	862 Jun 27 j 03:33	8°♄39'23	-4°45'55	minimum elong	863 Jun 07 j 09:10	20°♄02'22	4°01'36
minimum elong	862 Jun 27 j 01:03	8°♄43'36	4°45'44	morning rise	863 Jun 16 j 05:33	15°♄56'44	
morning rise	862 Jul 05 j 06:34	4°♄29'15		direct	863 Jun 18 j 22:57	15°♄38'29	
direct	862 Jul 07 j 20:29	4°♄09'56		morning max el	863 Jun 29 j 09:49	20°♄28'42	20°15'38
morning max el	862 Jul 16 j 18:24	8°♄19'47	19°08'49		863 Jul 07 j 01:36	0°♄	
asc. node	862 Jul 23 j 12:38	16°♄49'46		asc. node	863 Jul 10 j 09:41	5°♄31'09	
	862 Jul 30 j 23:01	0°♄		morning set	863 Jul 17 j 20:43	19°♄52'28	
morning set	862 Aug 02 j 15:57	5°♄18'10			863 Jul 22 j 19:07	0°♄	
superior conj	862 Aug 10 j 22:42	21°♄39'17	1°45'28	superior conj	863 Jul 25 j 13:17	5°♄36'44	1°45'39
minimum elong	862 Aug 10 j 23:42	21°♄44'07	1°45'26	minimum elong	863 Jul 25 j 12:34	5°♄33'07	1°45'38
	862 Aug 15 j 08:22	0°♄		max. Earth dist.	863 Jul 30 j 17:46	15°♄50'15	1.36515 AU
max. Earth dist.	862 Aug 17 j 12:28	3°♄58'59	1.38429 AU	evening rise	863 Aug 03 j 16:22	23°♄13'59	
evening rise	862 Aug 21 j 07:48	10°♄44'52			863 Aug 07 j 11:03	0°♄	
desc. node	862 Aug 31 j 13:59	27°♄40'41		desc. node	863 Aug 18 j 11:00	17°♄59'32	
	862 Sep 02 j 01:54	0°♄			863 Aug 26 j 18:48	0°♄	
	862 Sep 24 j 14:05	0°♄		evening max el	863 Sep 08 j 10:56	15°♄02'29	25°56'21
evening max el	862 Sep 25 j 23:15	1°♄24'18	24°46'04	retrograde	863 Sep 20 j 21:49	22°♄08'12	
retrograde	862 Oct 07 j 12:55	8°♄08'46		evening set	863 Sep 27 j 02:26	19°♄32'47	
evening set	862 Oct 13 j 03:17	5°♄47'20		min. Earth dist.	863 Oct 01 j 08:51	14°♄55'23	0.66699 AU
min. Earth dist.	862 Oct 17 j 17:24	0°♄34'12	0.67363 AU	inferior conj	863 Oct 02 j 16:45	13°♄14'56	-1°15'15
	862 Oct 18 j 03:44	30°♄		minimum elong	863 Oct 02 j 18:42	13°♄08'49	1°14'25
inferior conj	862 Oct 18 j 14:15	29°♄25'04	-0°18'39	asc. node	863 Oct 06 j 08:54	9°♄01'38	
minimum elong	862 Oct 18 j 14:43	29°♄23'32	0°18'26	morning rise	863 Oct 08 j 11:16	7°♄21'57	
asc. node	862 Oct 19 j 11:50	28°♄14'01		direct	863 Oct 11 j 15:57	6°♄23'15	
morning rise	862 Oct 24 j 02:15	23°♄23'13		morning max el	863 Oct 18 j 14:39	10°♄16'42	19°02'19
direct	862 Oct 27 j 17:28	22°♄07'10			863 Nov 01 j 21:38	0°♄	
morning max el	862 Nov 04 j 07:32	26°♄27'38	19°59'00	morning set	863 Nov 10 j 00:45	12°♄41'10	
	862 Nov 07 j 11:21	0°♄		desc. node	863 Nov 14 j 10:18	19°♄34'30	
desc. node	862 Nov 27 j 13:16	29°♄00'23			863 Nov 21 j 01:55	0°♄	
	862 Nov 28 j 04:48	0°♄		max. Earth dist.	863 Nov 24 j 16:36	5°♄40'36	1.44878 AU
morning set	862 Nov 30 j 17:29	3°♄53'46		superior conj	863 Nov 26 j 15:25	8°♄45'12	-1°15'15
max. Earth dist.	862 Dec 12 j 00:57	21°♄38'05	1.43967 AU	minimum elong	863 Nov 26 j 07:04	8°♄12'12	1°14'18
superior conj	862 Dec 17 j 05:32	0°♄00'02	-1°48'10		863 Dec 09 j 21:48	0°♄	
minimum elong	862 Dec 16 j 22:49	29°♄32'43	1°47'42	evening rise	863 Dec 11 j 16:40	2°♄54'37	
	862 Dec 17 j 05:32	0°♄			863 Dec 29 j 01:21	0°♄	
evening rise	862 Dec 30 j 10:16	22°♄06'48		evening max el	863 Dec 31 j 23:37	3°♄24'23	18°37'23
	863 Jan 04 j 00:37	0°♄		asc. node	864 Jan 02 j 08:09	4°♄41'04	
asc. node	863 Jan 15 j 11:07	17°♄44'33		retrograde	864 Jan 07 j 14:46	7°♄05'23	
evening max el	863 Jan 17 j 11:47	20°♄00'55	18°13'23	evening set	864 Jan 10 j 17:27	6°♄10'53	
retrograde	863 Jan 23 j 23:13	23°♄28'21		inferior conj	864 Jan 16 j 12:39	0°♄34'38	3°35'12
evening set	863 Jan 26 j 20:28	22°♄45'04		minimum elong	864 Jan 16 j 10:45	0°♄40'20	3°34'57
inferior conj	863 Feb 01 j 23:44	17°♄26'53	3°47'00		864 Jan 17 j 00:11	30°♄	
minimum elong	863 Feb 01 j 23:14	17°♄28'15	3°47'00	min. Earth dist.	864 Jan 18 j 11:20	28°♄15'11	0.64842 AU
min. Earth dist.	863 Feb 04 j 13:50	14°♄38'38	0.63161 AU	morning rise	864 Jan 22 j 03:36	24°♄26'41	
morning rise	863 Feb 08 j 01:06	11°♄25'05		direct	864 Jan 28 j 22:11	21°♄34'27	
direct	863 Feb 15 j 00:28	8°♄42'06		desc. node	864 Feb 10 j 09:29	28°♄28'39	
desc. node	863 Feb 23 j 12:26	11°♄58'28		morning max el	864 Feb 11 j 06:55	29°♄21'18	27°10'54
morning max el	863 Feb 28 j 21:34	16°♄36'17	27°44'24		864 Feb 11 j 22:08	0°♄	
	863 Mar 11 j 23:55	0°♄			864 Mar 04 j 20:55	0°♄	
	863 Mar 30 j 08:28	0°♄		morning set	864 Mar 17 j 19:24	23°♄07'35	

	864 Mar 21 j 06:42	0°♿			865 Feb 06 j 20:13	0°♿	
max. Earth dist.	864 Mar 22 j 10:38	2°♿21'51	1.33883 AU		865 Feb 25 j 12:36	0°♿	
				morning set	865 Feb 28 j 20:54	6°♿06'42	
superior conj	864 Mar 26 j 00:34	9°♿47'43	-0°43'50	max. Earth dist.	865 Mar 04 j 20:28	13°♿41'36	1.35303 AU
minimum elong	864 Mar 26 j 02:43	9°♿59'03	0°43'25				
asc. node	864 Mar 30 j 07:27	18°♿53'03		superior conj	865 Mar 09 j 21:18	23°♿43'40	-1°10'31
evening rise	864 Apr 02 j 08:40	25°♿19'41		minimum elong	865 Mar 10 j 00:41	24°♿00'51	1°09'57
	864 Apr 04 j 14:58	0°♿			865 Mar 12 j 22:35	0°♿	
evening max el	864 Apr 22 j 23:50	28°♿37'56	21°51'40	asc. node	865 Mar 17 j 04:29	8°♿47'29	
	864 Apr 24 j 11:48	0°♿		evening rise	865 Mar 17 j 16:17	9°♿48'13	
retrograde	864 May 05 j 13:00	4°♿46'50			865 Mar 28 j 12:46	0°♿	
evening set	864 May 08 j 03:35	4°♿31'39		evening max el	865 Apr 05 j 03:37	9°♿43'16	20°28'51
desc. node	864 May 08 j 08:41	4°♿29'07		retrograde	865 Apr 16 j 02:00	15°♿00'07	
min. Earth dist.	864 May 17 j 04:21	0°♿40'47	0.55029 AU	evening set	865 Apr 18 j 04:32	14°♿49'11	
inferior conj	864 May 17 j 13:31	0°♿27'55	-2°33'59	desc. node	865 Apr 25 j 05:41	12°♿03'24	
minimum elong	864 May 17 j 06:49	0°♿37'20	2°31'51	inferior conj	865 Apr 27 j 08:11	10°♿51'27	-0°36'30
	864 May 18 j 09:29	30°♿8		minimum elong	865 Apr 27 j 06:28	10°♿53'56	0°35'52
morning rise	864 May 26 j 11:12	26°♿32'40		min. Earth dist.	865 Apr 28 j 17:20	10°♿03'22	0.55133 AU
direct	864 May 29 j 11:47	26°♿12'25		morning rise	865 May 06 j 07:15	6°♿37'43	
	864 Jun 08 j 08:23	0°♿		direct	865 May 09 j 23:03	6°♿08'47	
morning max el	864 Jun 10 j 13:49	1°♿53'15	21°41'37	morning max el	865 May 23 j 08:30	12°♿39'38	23°20'39
asc. node	864 Jun 26 j 06:43	24°♿43'39			865 Jun 05 j 11:24	0°♿	
	864 Jun 28 j 23:00	0°♿		asc. node	865 Jun 13 j 03:44	14°♿19'24	
morning set	864 Jul 01 j 05:40	4°♿40'01		morning set	865 Jun 15 j 16:56	19°♿35'23	
					865 Jun 20 j 13:49	0°♿	
superior conj	864 Jul 08 j 13:00	20°♿01'44	1°38'46				
minimum elong	864 Jul 08 j 11:09	19°♿52'03	1°38'38	superior conj	865 Jun 22 j 18:52	4°♿45'18	1°26'14
max. Earth dist.	864 Jul 12 j 06:48	27°♿43'50	1.34901 AU	minimum elong	865 Jun 22 j 16:29	4°♿32'28	1°25'57
	864 Jul 13 j 09:52	0°♿		max. Earth dist.	865 Jun 25 j 05:23	9°♿56'38	1.33666 AU
evening rise	864 Jul 16 j 18:17	6°♿33'51		evening rise	865 Jun 30 j 09:02	20°♿31'48	
	864 Jul 30 j 03:12	0°♿			865 Jul 05 j 07:06	0°♿	
desc. node	864 Aug 04 j 08:02	7°♿57'33		desc. node	865 Jul 22 j 05:02	27°♿25'37	
evening max el	864 Aug 20 j 23:07	28°♿37'15	26°50'33		865 Jul 24 j 02:29	0°♿	
	864 Aug 22 j 10:49	0°♿		evening max el	865 Aug 03 j 10:47	11°♿57'19	27°21'10
retrograde	864 Sep 03 j 01:21	5°♿53'16		retrograde	865 Aug 16 j 23:00	19°♿15'53	
evening set	864 Sep 09 j 18:47	3°♿09'34		evening set	865 Aug 24 j 01:35	16°♿32'47	
	864 Sep 13 j 00:05	30°♿8		min. Earth dist.	865 Aug 27 j 18:43	13°♿07'56	0.64312 AU
min. Earth dist.	864 Sep 13 j 18:04	29°♿09'03	0.65685 AU	inferior conj	865 Aug 30 j 03:35	10°♿36'25	-3°07'20
inferior conj	864 Sep 15 j 14:00	27°♿00'32	-2°12'16	minimum elong	865 Aug 30 j 08:12	10°♿24'05	3°05'51
minimum elong	864 Sep 15 j 17:25	26°♿50'29	2°10'58	morning rise	865 Sep 05 j 15:45	5°♿10'59	
morning rise	864 Sep 21 j 16:39	21°♿19'33		direct	865 Sep 08 j 06:33	4°♿36'00	
asc. node	864 Sep 22 j 05:55	21°♿03'51		asc. node	865 Sep 09 j 02:57	4°♿39'44	
direct	864 Sep 24 j 13:09	20°♿34'28		morning max el	865 Sep 14 j 18:47	8°♿02'43	17°58'23
morning max el	864 Oct 01 j 03:15	24°♿10'18	18°21'49		865 Sep 29 j 11:31	0°♿	
	864 Oct 05 j 21:45	0°♿		morning set	865 Oct 02 j 01:45	4°♿24'37	
morning set	864 Oct 20 j 11:16	22°♿52'10					
	864 Oct 24 j 21:05	0°♿		superior conj	865 Oct 15 j 05:58	26°♿19'33	0°19'31
desc. node	864 Oct 31 j 07:20	10°♿16'34		minimum elong	865 Oct 15 j 08:12	26°♿28'32	0°19'12
					865 Oct 17 j 12:43	0°♿	
superior conj	864 Nov 04 j 16:21	17°♿11'51	-0°28'43	desc. node	865 Oct 18 j 04:22	1°♿02'40	
minimum elong	864 Nov 04 j 12:36	16°♿57'03	0°28'13	max. Earth dist.	865 Oct 20 j 06:07	4°♿20'54	1.44514 AU
max. Earth dist.	864 Nov 06 j 11:28	20°♿01'32	1.45065 AU	evening rise	865 Oct 31 j 12:03	21°♿54'56	
	864 Nov 12 j 20:05	0°♿			865 Nov 05 j 18:40	0°♿	
evening rise	864 Nov 20 j 23:35	12°♿45'59			865 Nov 27 j 04:29	0°♿	
greatest brilliancy	864 Dec 01 j 17:05	29°♿31'48	-0.8m	evening max el	865 Nov 27 j 12:34	0°♿21'04	20°14'58
	864 Dec 02 j 00:25	0°♿		retrograde	865 Dec 05 j 08:28	4°♿57'14	
evening max el	864 Dec 14 j 08:30	16°♿52'17	19°18'31	asc. node	865 Dec 06 j 02:13	4°♿54'08	
asc. node	864 Dec 19 j 05:11	20°♿29'19		evening set	865 Dec 09 j 02:13	3°♿35'56	
retrograde	864 Dec 21 j 10:46	20°♿56'43			865 Dec 12 j 15:03	30°♿8	
evening set	864 Dec 24 j 20:08	19°♿49'37		inferior conj	865 Dec 14 j 12:30	27°♿30'43	2°35'43
inferior conj	864 Dec 30 j 09:50	13°♿57'27	3°10'21	minimum elong	865 Dec 14 j 09:49	27°♿39'48	2°34'54
minimum elong	864 Dec 30 j 07:14	14°♿05'50	3°09'46	min. Earth dist.	865 Dec 15 j 06:51	26°♿28'53	0.67036 AU
min. Earth dist.	864 Dec 31 j 17:34	12°♿15'30	0.66139 AU	morning rise	865 Dec 19 j 17:14	21°♿17'35	
morning rise	865 Jan 04 j 18:05	7°♿46'02		direct	865 Dec 25 j 11:08	18°♿44'48	
direct	865 Jan 11 j 02:00	4°♿58'27		morning max el	866 Jan 06 j 00:56	25°♿38'37	24°50'23
morning max el	865 Jan 23 j 16:20	12°♿25'23	26°09'49		866 Jan 10 j 00:43	0°♿	
desc. node	865 Jan 27 j 06:31	16°♿18'02		desc. node	866 Jan 14 j 03:33	5°♿03'11	

	866 Jan 31 j 09:14	0°♊		morning set	867 Jan 23 j 10:59	28°♊54'04	
morning set	866 Feb 11 j 04:10	18°♊07'28			867 Jan 24 j 02:37	0°♊	
max. Earth dist.	866 Feb 14 j 20:02	24°♊44'28	1.37138 AU	max. Earth dist.	867 Jan 27 j 15:01	6°♊02'34	1.39234 AU
	866 Feb 17 j 15:39	0°♋					
superior conj	866 Feb 21 j 07:59	7°♋04'54	-1°34'36	superior conj	867 Feb 04 j 04:40	19°♊41'31	-1°53'19
minimum elong	866 Feb 21 j 12:02	7°♋24'39	1°34'05	minimum elong	867 Feb 04 j 08:10	19°♊57'48	1°53'04
evening rise	866 Mar 01 j 18:35	23°♋54'53		evening rise	867 Feb 09 j 15:09	0°♋	
asc. node	866 Mar 04 j 01:31	28°♋27'12		asc. node	867 Feb 13 j 12:51	7°♋32'41	
	866 Mar 04 j 20:32	0°♌			867 Feb 18 j 22:34	17°♋46'43	
evening max el	866 Mar 18 j 18:48	21°♌26'52	19°23'47	evening max el	867 Feb 26 j 12:47	0°♌	
retrograde	866 Mar 28 j 00:34	25°♌54'05		retrograde	867 Mar 01 j 19:55	3°♌47'03	18°38'37
evening set	866 Mar 30 j 03:37	25°♌40'57		evening set	867 Mar 09 j 16:44	7°♌37'23	
inferior conj	866 Apr 07 j 14:23	21°♌33'40	1°15'45	inferior conj	867 Mar 12 j 00:59	7°♌18'10	
minimum elong	866 Apr 07 j 17:22	21°♌28'47	1°14'46	minimum elong	867 Mar 19 j 16:31	2°♌53'07	2°38'29
min. Earth dist.	866 Apr 10 j 07:56	19°♌46'55	0.56151 AU	min. Earth dist.	867 Mar 19 j 20:41	2°♌45'08	2°37'26
desc. node	866 Apr 12 j 02:42	18°♌42'05			867 Mar 23 j 01:38	0°♌19'28	0.57871 AU
morning rise	866 Apr 16 j 04:19	16°♌47'32		morning rise	867 Mar 23 j 12:30	30°♌	
direct	866 Apr 20 j 19:51	15°♌58'22		desc. node	867 Mar 27 j 13:24	27°♌34'37	
morning max el	866 May 04 j 23:13	23°♌08'40	25°01'03	direct	867 Mar 29 j 23:46	26°♌39'54	
	866 May 11 j 02:27	0°♍			867 Apr 02 j 06:58	26°♌12'24	
	866 May 29 j 00:14	0°♎		morning max el	867 Apr 12 j 04:53	0°♍	
morning set	866 May 31 j 04:52	4°♎33'21			867 Apr 16 j 15:47	3°♍47'36	26°27'20
asc. node	866 May 31 j 00:48	4°♎11'57		morning set	867 May 05 j 14:40	0°♍	
				asc. node	867 May 15 j 15:46	19°♍27'29	
superior conj	866 Jun 07 j 04:34	19°♎40'09	1°09'11		867 May 17 j 21:50	24°♍15'10	
minimum elong	866 Jun 07 j 02:10	19°♎27'05	1°08'48		867 May 20 j 13:17	0°♎	
max. Earth dist.	866 Jun 08 j 11:58	22°♎30'55	1.32820 AU	superior conj	867 May 22 j 16:06	4°♎38'52	0°48'29
	866 Jun 11 j 23:49	0°♏		minimum elong	867 May 22 j 14:09	4°♎28'13	0°48'06
evening rise	866 Jun 14 j 08:55	4°♏57'04		max. Earth dist.	867 May 22 j 23:15	5°♎18'13	1.32359 AU
	866 Jun 27 j 22:44	0°♐		evening rise	867 May 29 j 14:58	19°♎39'37	
desc. node	866 Jul 09 j 02:02	16°♐11'31			867 Jun 03 j 18:10	0°♏	
evening max el	866 Jul 16 j 19:51	24°♐50'07	27°22'13		867 Jun 22 j 13:57	0°♐	
	866 Jul 23 j 12:39	0°♑		desc. node	867 Jun 25 j 23:03	3°♐56'53	
retrograde	866 Jul 30 j 14:28	2°♑07'39		evening max el	867 Jun 28 j 23:47	7°♐03'01	26°50'25
	866 Aug 06 j 05:41	30°♑08'00		retrograde	867 Jul 12 j 22:47	14°♐18'12	
evening set	866 Aug 06 j 19:25	29°♑37'15		evening set	867 Jul 19 j 19:49	12°♐14'32	
min. Earth dist.	866 Aug 10 j 09:19	26°♑41'53	0.62595 AU	min. Earth dist.	867 Jul 23 j 13:42	9°♐35'45	0.60615 AU
inferior conj	866 Aug 13 j 06:44	23°♑56'42	-3°56'42	inferior conj	867 Jul 26 j 20:01	6°♐52'05	-4°34'26
minimum elong	866 Aug 13 j 11:45	23°♑44'44	3°55'31	minimum elong	867 Jul 26 j 23:50	6°♐44'03	4°33'55
morning rise	866 Aug 20 j 05:26	18°♑50'08		morning rise	867 Aug 03 j 05:44	2°♐07'03	
direct	866 Aug 22 j 16:59	18°♑22'14		direct	867 Aug 05 j 16:31	1°♐43'49	
asc. node	866 Aug 27 j 00:00	19°♑47'46		morning max el	867 Aug 12 j 23:10	5°♐18'18	18°06'13
morning max el	866 Aug 29 j 10:28	21°♑48'19	17°52'51	asc. node	867 Aug 13 j 21:05	6°♐14'10	
	866 Sep 04 j 17:04	0°♒		morning set	867 Aug 28 j 20:08	0°♑25'49	
morning set	866 Sep 14 j 14:43	17°♑01'44			867 Aug 28 j 14:36	0°♑	
	866 Sep 21 j 23:02	0°♓					
superior conj	866 Sep 25 j 21:32	6°♓45'05	0°59'07	superior conj	867 Sep 07 j 15:31	18°♑28'15	1°26'17
minimum elong	866 Sep 26 j 02:17	7°♓05'11	0°58'31	minimum elong	867 Sep 07 j 19:38	18°♑46'34	1°25'53
max. Earth dist.	866 Oct 02 j 21:11	18°♓19'34	1.43302 AU		867 Sep 14 j 06:39	0°♓	
desc. node	866 Oct 05 j 01:24	21°♓49'58		max. Earth dist.	867 Sep 15 j 06:29	1°♓40'27	1.41590 AU
	866 Oct 10 j 05:24	0°♔		evening rise	867 Sep 20 j 17:15	10°♓37'42	
evening rise	866 Oct 10 j 20:12	0°♔57'37		desc. node	867 Sep 21 j 22:25	12°♓34'33	
	866 Oct 30 j 09:37	0°♕			867 Oct 03 j 07:00	0°♔	
evening max el	866 Nov 10 j 10:56	13°♕50'28	21°23'55	evening max el	867 Oct 24 j 03:58	27°♔21'08	22°41'21
retrograde	866 Nov 19 j 05:51	19°♕04'01			867 Oct 27 j 00:59	0°♕	
asc. node	866 Nov 22 j 23:15	17°♕46'39		retrograde	867 Nov 03 j 01:06	3°♕13'27	
evening set	866 Nov 23 j 09:51	17°♕26'58		evening set	867 Nov 07 j 17:17	1°♕19'23	
inferior conj	866 Nov 28 j 18:28	11°♕12'01	1°53'35		867 Nov 09 j 02:54	30°♕	
minimum elong	866 Nov 28 j 16:11	11°♕19'55	1°52'44	asc. node	867 Nov 09 j 20:19	29°♔11'42	
min. Earth dist.	866 Nov 29 j 00:59	10°♕49'33	0.67560 AU	inferior conj	867 Nov 13 j 01:45	24°♔58'34	1°05'34
morning rise	866 Dec 03 j 22:22	4°♕59'03		minimum elong	867 Nov 13 j 00:17	25°♔03'38	1°04'58
direct	866 Dec 09 j 01:06	2°♕46'45		min. Earth dist.	867 Nov 12 j 21:30	25°♔13'16	0.67739 AU
morning max el	866 Dec 19 j 09:59	8°♕57'01	23°22'43	morning rise	867 Nov 18 j 07:09	18°♔47'52	
	867 Jan 01 j 00:38	24°♕28'20		direct	867 Nov 22 j 19:04	16°♔58'08	
desc. node	867 Jan 04 j 22:33	0°♖		morning max el	867 Dec 01 j 22:31	22°♔21'13	21°56'16
					867 Dec 08 j 12:12	0°♖	

desc. node	867 Dec 18 j 21:42	14°♊21'56		868 Dec 01 j 17:14	0°♊	
	867 Dec 29 j 06:54	0°♊		desc. node	868 Dec 04 j 18:43	4°♊35'34
morning set	868 Jan 03 j 12:44	8°♊16'29		morning set	868 Dec 12 j 14:10	16°♊33'26
max. Earth dist.	868 Jan 09 j 13:02	18°♊06'32	1.41334 AU		868 Dec 21 j 02:10	0°♊
	868 Jan 16 j 11:50	0°♊		max. Earth dist.	868 Dec 21 j 18:51	1°♊07'16 1.43152 AU
superior conj	868 Jan 17 j 06:22	1°♊21'29	-2°02'54	superior conj	868 Dec 28 j 07:42	11°♊51'55 -1°58'40
minimum elong	868 Jan 17 j 07:18	1°♊25'35	2°02'54	minimum elong	868 Dec 28 j 03:52	11°♊35'54 1°58'30
evening rise	868 Jan 27 j 19:43	20°♊33'37			869 Jan 07 j 20:49	0°♊
	868 Feb 01 j 23:14	0°♊		evening rise	869 Jan 09 j 11:02	2°♊48'27
asc. node	868 Feb 05 j 19:37	6°♊39'15		asc. node	869 Jan 22 j 16:41	24°♊55'32
evening max el	868 Feb 13 j 03:58	16°♊35'58	18°13'30	evening max el	869 Jan 26 j 15:42	29°♊43'41 18°07'57
retrograde	868 Feb 20 j 03:13	20°♊05'37			869 Jan 26 j 22:23	0°♊
evening set	868 Feb 22 j 16:58	19°♊37'54		retrograde	869 Feb 02 j 04:29	3°♊07'54
inferior conj	868 Feb 29 j 15:33	14°♊52'01	3°26'41	evening set	869 Feb 04 j 23:08	2°♊30'24
minimum elong	868 Feb 29 j 18:18	14°♊45'53	3°26'18		869 Feb 08 j 15:29	30°♊
min. Earth dist.	868 Mar 04 j 00:25	11°♊53'44	0.59952 AU	inferior conj	869 Feb 11 j 08:24	27°♊23'33 3°46'02
morning rise	868 Mar 07 j 17:29	9°♊10'25		minimum elong	869 Feb 11 j 09:01	27°♊22'00 3°46'01
direct	868 Mar 14 j 06:48	7°♊10'31		min. Earth dist.	869 Feb 14 j 06:43	24°♊25'45 0.62051 AU
desc. node	868 Mar 15 j 20:49	7°♊17'18		morning rise	869 Feb 17 j 17:39	21°♊27'32
morning max el	868 Mar 28 j 13:47	14°♊58'28	27°25'40	direct	869 Feb 24 j 16:18	18°♊56'47
	868 Apr 09 j 17:32	0°♊		desc. node	869 Mar 02 j 17:53	20°♊37'16
	868 Apr 26 j 22:48	0°♊		morning max el	869 Mar 10 j 17:48	26°♊49'48 27°48'15
morning set	868 Apr 28 j 23:57	4°♊11'41			869 Mar 13 j 17:43	0°♊
asc. node	868 May 03 j 18:54	14°♊24'25			869 Apr 03 j 07:45	0°♊
max. Earth dist.	868 May 05 j 11:43	18°♊07'22	1.32277 AU	morning set	869 Apr 13 j 03:21	18°♊38'28
					869 Apr 18 j 13:12	0°♊
superior conj	868 May 06 j 03:46	19°♊35'25	0°24'51	max. Earth dist.	869 Apr 18 j 21:30	0°♊44'41 1.32577 AU
minimum elong	868 May 06 j 02:40	19°♊29'24	0°24'37			
	868 May 10 j 22:02	0°♊		superior conj	869 Apr 20 j 13:48	4°♊23'04 -0°00'57
evening rise	868 May 13 j 00:51	4°♊31'38		minimum elong	869 Apr 20 j 13:51	4°♊23'17 0°00'57
	868 May 26 j 14:23	0°♊		behind sun begin	869 Apr 20 j 08:43	3°♊55'24
evening max el	868 Jun 09 j 21:03	18°♊30'36	25°47'08	behind sun end	869 Apr 20 j 18:58	4°♊51'10
desc. node	868 Jun 11 j 20:04	20°♊16'29		asc. node	869 Apr 20 j 15:58	4°♊34'48
retrograde	868 Jun 23 j 22:00	25°♊41'19		evening rise	869 Apr 27 j 12:30	19°♊25'21
evening set	868 Jun 29 j 22:15	24°♊15'07			869 May 02 j 16:56	0°♊
min. Earth dist.	868 Jul 04 j 09:29	21°♊35'24	0.58560 AU	evening max el	869 May 22 j 12:28	29°♊18'31 24°20'35
inferior conj	868 Jul 07 j 15:53	19°♊13'16	-4°51'01		869 May 23 j 06:07	0°♊
minimum elong	868 Jul 07 j 16:14	19°♊12'37	4°51'00	desc. node	869 May 29 j 17:05	4°♊36'53
morning rise	868 Jul 15 j 12:36	14°♊50'35		retrograde	869 Jun 05 j 09:30	6°♊18'22
direct	868 Jul 18 j 00:53	14°♊30'09		evening set	869 Jun 10 j 01:34	5°♊29'42
morning max el	868 Jul 26 j 05:42	18°♊23'47	18°39'48	min. Earth dist.	869 Jun 15 j 23:35	2°♊32'39 0.56709 AU
asc. node	868 Jul 30 j 18:09	23°♊43'45		inferior conj	869 Jun 18 j 15:41	0°♊51'29 -4°33'26
	868 Aug 03 j 18:48	0°♊		minimum elong	869 Jun 18 j 11:01	0°♊58'53 4°32'50
morning set	868 Aug 11 j 13:17	14°♊24'27			869 Jun 20 j 00:30	30°♊
	868 Aug 19 j 15:04	0°♊		morning rise	869 Jun 26 j 23:12	26°♊48'37
				direct	869 Jun 29 j 14:36	26°♊29'48
superior conj	868 Aug 20 j 07:04	1°♊15'27	1°41'27		869 Jul 08 j 02:07	0°♊
minimum elong	868 Aug 20 j 09:14	1°♊25'39	1°41'19	morning max el	869 Jul 09 j 03:09	0°♊55'08 19°34'38
max. Earth dist.	868 Aug 27 j 11:08	14°♊18'51	1.39605 AU	asc. node	869 Jul 17 j 15:12	12°♊02'22
evening rise	868 Aug 31 j 13:33	21°♊23'02		morning set	869 Jul 26 j 14:37	28°♊48'16
	868 Sep 05 j 19:00	0°♊			869 Jul 27 j 04:54	0°♊
desc. node	868 Sep 07 j 19:25	3°♊12'50				
	868 Sep 26 j 08:22	0°♊		superior conj	869 Aug 03 j 14:37	14°♊51'22 1°46'31
evening max el	868 Oct 05 j 17:22	10°♊55'14	24°01'31	minimum elong	869 Aug 03 j 14:49	14°♊52'24 1°46'31
retrograde	868 Oct 16 j 16:52	17°♊22'21		max. Earth dist.	869 Aug 09 j 15:02	26°♊23'28 1.37593 AU
evening set	868 Oct 21 j 22:52	15°♊10'48			869 Aug 11 j 14:09	0°♊
min. Earth dist.	868 Oct 26 j 17:53	9°♊37'46	0.67594 AU	evening rise	869 Aug 13 j 09:54	3°♊16'49
asc. node	868 Oct 26 j 17:23	9°♊39'25		desc. node	869 Aug 25 j 16:25	23°♊40'38
inferior conj	868 Oct 27 j 08:33	8°♊48'04	0°13'04		869 Aug 29 j 20:45	0°♊
minimum elong	868 Oct 27 j 08:14	8°♊49'09	0°12'56	evening max el	869 Sep 18 j 05:14	24°♊33'10 25°17'29
transit middle	868 Oct 27 j 08:14	8°♊49'09	0°12'56		869 Sep 25 j 03:55	0°♊
transit begin	868 Oct 27 j 06:35	8°♊54'45		retrograde	869 Sep 30 j 04:18	1°♊27'11
transit end	868 Oct 27 j 09:53	8°♊43'33			869 Oct 04 j 16:56	30°♊
morning rise	868 Nov 01 j 17:34	2°♊42'10		evening set	869 Oct 06 j 00:53	28°♊59'23
direct	868 Nov 05 j 15:55	1°♊14'20		min. Earth dist.	869 Oct 10 j 11:43	24°♊01'21 0.67125 AU
morning max el	868 Nov 13 j 17:42	5°♊54'46	20°38'11	inferior conj	869 Oct 11 j 13:08	22°♊38'47 -0°42'27

minimum elong	869 Oct 11 j 14:12	22° Ω 35'18	0°41'59	asc. node	870 Sep 30 j 11:27	1° Ω 18'45	
asc. node	869 Oct 13 j 14:26	20° Ω 03'35		morning rise	870 Oct 01 j 11:26	0° Ω 39'13	
morning rise	869 Oct 17 j 03:41	16° Ω 40'25			870 Oct 02 j 23:47	30° \mathbb{R} \mathbb{M}	
direct	869 Oct 20 j 14:16	15° Ω 32'02		direct	870 Oct 04 j 12:21	29° \mathbb{M} 46'49	
morning max el	869 Oct 27 j 20:45	19° Ω 39'21	19°33'03		870 Oct 06 j 01:29	0° Ω	
	869 Nov 05 j 01:57	0° \mathbb{M}		morning max el	870 Oct 11 j 06:33	3° Ω 31'24	18°43'07
greatest brilliancy	869 Nov 10 j 10:44	7° \mathbb{M} 53'08	-0.7m		870 Oct 29 j 14:51	0° \mathbb{M}	
morning set	869 Nov 21 j 12:11	24° \mathbb{M} 50'02		morning set	870 Nov 01 j 06:03	4° \mathbb{M} 10'50	
desc. node	869 Nov 21 j 15:44	25° \mathbb{M} 03'48		desc. node	870 Nov 08 j 12:44	15° \mathbb{M} 41'46	
	869 Nov 24 j 20:04	0° \mathbb{J}					
max. Earth dist.	869 Dec 04 j 08:09	14° \mathbb{J} 54'29	1.44441 AU	superior conj	870 Nov 17 j 09:48	29° \mathbb{M} 39'25	-0°56'32
				minimum elong	870 Nov 17 j 02:46	29° \mathbb{M} 11'48	0°55'40
superior conj	869 Dec 08 j 06:24	21° \mathbb{J} 10'00	-1°36'24	max. Earth dist.	870 Nov 17 j 01:44	29° \mathbb{M} 07'45	1.45048 AU
minimum elong	869 Dec 07 j 22:14	20° \mathbb{J} 37'18	1°35'40		870 Nov 17 j 15:02	0° \mathbb{J}	
	869 Dec 13 j 17:25	0° \mathbb{Z}		evening rise	870 Dec 03 j 02:50	24° \mathbb{J} 33'15	
evening rise	869 Dec 22 j 06:32	14° \mathbb{Z} 10'05			870 Dec 06 j 12:19	0° \mathbb{Z}	
	869 Dec 31 j 18:35	0° \approx		greatest brilliancy	870 Dec 10 j 08:40	6° \mathbb{Z} 09'46	-0.9m
asc. node	870 Jan 09 j 13:43	12° \approx 24'55		evening max el	870 Dec 24 j 14:55	26° \mathbb{Z} 27'55	18°52'50
evening max el	870 Jan 10 j 04:12	13° \approx 02'53	18°21'22	asc. node	870 Dec 27 j 10:44	28° \mathbb{Z} 53'58	
retrograde	870 Jan 16 j 16:08	16° \approx 34'42			870 Dec 29 j 14:41	0° \approx	
evening set	870 Jan 19 j 15:39	15° \approx 46'39		retrograde	870 Dec 31 j 10:03	0° \approx 18'11	
inferior conj	870 Jan 25 j 15:06	10° \approx 20'14	3°43'52		871 Jan 02 j 04:41	30° \mathbb{R} \mathbb{Z}	
minimum elong	870 Jan 25 j 13:56	10° \approx 23'35	3°43'46	evening set	871 Jan 03 j 15:21	29° \mathbb{Z} 18'31	
min. Earth dist.	870 Jan 27 j 22:33	7° \approx 43'05	0.63922 AU	inferior conj	871 Jan 09 j 07:54	23° \mathbb{Z} 34'56	3°26'03
morning rise	870 Jan 31 j 11:34	4° \approx 15'31		minimum elong	871 Jan 09 j 05:37	23° \mathbb{Z} 42'00	3°25'39
direct	870 Feb 07 j 09:43	1° \approx 27'09		min. Earth dist.	871 Jan 11 j 00:01	21° \mathbb{Z} 30'50	0.65437 AU
desc. node	870 Feb 17 j 14:56	6° \approx 08'25		morning rise	871 Jan 14 j 19:34	17° \mathbb{Z} 25'01	
morning max el	870 Feb 21 j 02:09	9° \approx 18'45	27°34'07	direct	871 Jan 21 j 09:58	14° \mathbb{Z} 33'27	
	870 Mar 09 j 05:51	0° \mathbb{H}		morning max el	871 Feb 03 j 12:01	22° \mathbb{Z} 14'01	26°47'53
	870 Mar 26 j 14:53	0° \mathbb{Y}		desc. node	871 Feb 04 j 11:58	23° \mathbb{Z} 15'26	
morning set	870 Mar 27 j 23:27	2° \mathbb{Y} 39'50			871 Feb 10 j 08:14	0° \approx	
max. Earth dist.	870 Apr 02 j 00:38	12° \mathbb{Y} 57'26	1.33283 AU		871 Mar 02 j 11:20	0° \mathbb{H}	
				morning set	871 Mar 11 j 09:00	16° \mathbb{H} 05'43	
superior conj	870 Apr 04 j 20:24	18° \mathbb{Y} 55'50	-0°28'04	max. Earth dist.	871 Mar 15 j 17:26	24° \mathbb{H} 36'35	1.34426 AU
minimum elong	870 Apr 04 j 21:47	19° \mathbb{Y} 03'10	0°27'47		871 Mar 18 j 09:11	0° \mathbb{Y}	
asc. node	870 Apr 07 j 12:59	24° \mathbb{Y} 42'14					
	870 Apr 10 j 00:11	0° \mathbb{B}		superior conj	871 Mar 19 j 21:29	3° \mathbb{Y} 07'28	-0°55'21
evening rise	870 Apr 12 j 00:04	4° \mathbb{B} 14'17		minimum elong	871 Mar 20 j 00:11	3° \mathbb{Y} 21'32	0°54'50
	870 Apr 26 j 02:05	0° \mathbb{I}		asc. node	871 Mar 25 j 10:02	14° \mathbb{Y} 42'55	
evening max el	870 May 04 j 03:13	9° \mathbb{I} 49'56	22°44'53	evening rise	871 Mar 27 j 09:43	18° \mathbb{Y} 52'15	
desc. node	870 May 16 j 14:07	16° \mathbb{I} 22'23			871 Apr 01 j 23:14	0° \mathbb{B}	
retrograde	870 May 17 j 08:35	16° \mathbb{I} 23'44		evening max el	871 Apr 16 j 00:50	20° \mathbb{B} 37'01	21°14'35
evening set	870 May 20 j 14:19	16° \mathbb{I} 00'42		retrograde	871 Apr 27 j 23:00	26° \mathbb{B} 25'21	
min. Earth dist.	870 May 28 j 11:36	12° \mathbb{I} 33'18	0.55407 AU	evening set	871 Apr 30 j 06:10	26° \mathbb{B} 13'08	
inferior conj	870 May 29 j 20:37	11° \mathbb{I} 46'00	-3°30'25	desc. node	871 May 03 j 11:09	25° \mathbb{B} 18'50	
minimum elong	870 May 29 j 13:04	11° \mathbb{I} 56'51	3°28'27	inferior conj	871 May 09 j 15:12	22° \mathbb{B} 13'43	-1°45'50
morning rise	870 Jun 07 j 14:09	7° \mathbb{I} 53'18		minimum elong	871 May 09 j 10:16	22° \mathbb{B} 20'40	1°44'06
direct	870 Jun 10 j 10:04	7° \mathbb{I} 34'42		min. Earth dist.	871 May 10 j 00:16	22° \mathbb{B} 00'57	0.54947 AU
morning max el	870 Jun 21 j 13:36	12° \mathbb{I} 44'58	20°50'11	morning rise	871 May 18 j 14:38	18° \mathbb{B} 12'55	
	870 Jul 03 j 23:26	0° \mathbb{E}		direct	871 May 21 j 20:08	17° \mathbb{B} 50'18	
asc. node	870 Jul 04 j 12:13	0° \mathbb{E} 58'02		morning max el	871 Jun 03 j 13:27	23° \mathbb{B} 53'21	22°22'44
morning set	870 Jul 10 j 21:25	13° \mathbb{E} 29'11			871 Jun 09 j 01:08	0° \mathbb{I}	
				asc. node	871 Jun 21 j 09:15	20° \mathbb{I} 21'52	
superior conj	870 Jul 18 j 09:29	29° \mathbb{E} 02'00	1°43'30	morning set	871 Jun 25 j 07:35	28° \mathbb{I} 21'29	
minimum elong	870 Jul 18 j 08:13	28° \mathbb{E} 55'28	1°43'27		871 Jun 26 j 02:23	0° \mathbb{E}	
	870 Jul 18 j 20:50	0° \mathbb{Q}					
max. Earth dist.	870 Jul 22 j 23:17	8° \mathbb{Q} 13'40	1.35783 AU	superior conj	871 Jul 02 j 12:13	13° \mathbb{E} 36'58	1°34'05
evening rise	870 Jul 27 j 02:23	16° \mathbb{Q} 08'52		minimum elong	871 Jul 02 j 10:04	13° \mathbb{E} 25'35	1°33'53
	870 Aug 03 j 21:06	0° \mathbb{M}		max. Earth dist.	871 Jul 05 j 16:12	20° \mathbb{E} 14'02	1.34323 AU
desc. node	870 Aug 12 j 13:26	13° \mathbb{M} 51'50		evening rise	871 Jul 10 j 10:19	29° \mathbb{E} 47'09	
	870 Aug 24 j 07:45	0° \mathbb{L}			871 Jul 10 j 12:57	0° \mathbb{Q}	
evening max el	870 Aug 31 j 16:59	8° \mathbb{L} 10'33	26°21'46		871 Jul 27 j 22:52	0° \mathbb{M}	
retrograde	870 Sep 13 j 10:52	15° \mathbb{L} 21'46		desc. node	871 Jul 30 j 10:27	3° \mathbb{M} 38'58	
evening set	870 Sep 19 j 21:24	12° \mathbb{L} 41'39		evening max el	871 Aug 14 j 04:57	21° \mathbb{M} 40'18	27°06'43
min. Earth dist.	870 Sep 24 j 00:37	8° \mathbb{L} 20'14	0.66314 AU	retrograde	871 Aug 27 j 12:11	28° \mathbb{M} 58'58	
inferior conj	870 Sep 25 j 13:37	6° \mathbb{L} 27'10	-1°39'30	evening set	871 Sep 03 j 10:06	26° \mathbb{M} 13'56	
minimum elong	870 Sep 25 j 16:12	6° \mathbb{L} 19'16	1°38'27	min. Earth dist.	871 Sep 07 j 06:27	22° \mathbb{M} 29'06	0.65147 AU

inferior conj	871 Sep 09 j 07:55	20° \mathbb{M} 09'37	-2°36'03	evening rise	872 Jun 23 j 05:23	13° \mathfrak{G} 58'20	
minimum elong	871 Sep 09 j 11:55	19° \mathbb{M} 58'20	2°34'37		872 Jul 01 j 16:02	0° \mathcal{Q}	
morning rise	871 Sep 15 j 14:30	14° \mathbb{M} 35'01		desc. node	872 Jul 16 j 07:30	22° \mathcal{Q} 51'06	
asc. node	871 Sep 17 j 08:28	14° \mathbb{M} 00'05			872 Jul 22 j 01:13	0° \mathbb{M}	
direct	871 Sep 18 j 08:10	13° \mathbb{M} 54'49		evening max el	872 Jul 26 j 15:52	4° \mathbb{M} 50'41	27°25'30
morning max el	871 Sep 24 j 20:48	17° \mathbb{M} 25'57	18°09'41	retrograde	872 Aug 09 j 07:30	12° \mathbb{M} 09'27	
	871 Oct 04 j 01:44	0° \mathfrak{A}		evening set	872 Aug 16 j 11:54	9° \mathbb{M} 30'19	
morning set	871 Oct 13 j 04:52	14° \mathfrak{A} 57'52		min. Earth dist.	872 Aug 20 j 03:11	6° \mathbb{M} 18'47	0.63621 AU
	871 Oct 22 j 09:27	0° \mathbb{M}		inferior conj	872 Aug 22 j 17:28	3° \mathbb{M} 40'02	-3°29'17
desc. node	871 Oct 26 j 09:46	6° \mathbb{M} 26'04		minimum elong	872 Aug 22 j 22:24	3° \mathbb{M} 27'26	3°27'52
					872 Aug 26 j 16:26	30° \mathcal{R} \mathcal{Q}	
superior conj	871 Oct 27 j 13:43	8° \mathbb{M} 17'18	-0°07'45	morning rise	872 Aug 29 j 10:01	28° \mathcal{Q} 22'02	
minimum elong	871 Oct 27 j 12:44	8° \mathbb{M} 13'23	0°07'37	direct	872 Aug 31 j 23:01	27° \mathcal{Q} 50'29	
behind sun begin	871 Oct 27 j 03:02	7° \mathbb{M} 34'49		asc. node	872 Sep 03 j 05:31	28° \mathcal{Q} 16'05	
behind sun end	871 Oct 27 j 22:26	8° \mathbb{M} 51'54			872 Sep 06 j 03:01	0° \mathbb{M}	
max. Earth dist.	871 Oct 30 j 20:24	13° \mathbb{M} 28'31	1.44918 AU	morning max el	872 Sep 07 j 12:45	1° \mathbb{M} 16'16	17°53'41
	871 Nov 10 j 10:05	0° \mathfrak{A}		morning set	872 Sep 24 j 05:44	27° \mathbb{M} 00'19	
evening rise	871 Nov 13 j 00:42	4° \mathfrak{A} 03'07			872 Sep 25 j 23:12	0° \mathfrak{A}	
greatest brilliancy	871 Nov 25 j 17:53	23° \mathfrak{A} 36'15	-0.7m				
	871 Nov 30 j 02:13	0° \mathfrak{Z}		superior conj	872 Oct 06 j 13:37	17° \mathfrak{A} 56'14	0°37'43
evening max el	871 Dec 07 j 21:51	9° \mathfrak{Z} 56'01	19°40'50	minimum elong	872 Oct 06 j 17:25	18° \mathfrak{A} 11'49	0°37'13
asc. node	871 Dec 14 j 07:46	14° \mathfrak{Z} 08'10		desc. node	872 Oct 12 j 06:49	27° \mathfrak{A} 13'16	
retrograde	871 Dec 15 j 07:06	14° \mathfrak{Z} 13'27		max. Earth dist.	872 Oct 12 j 13:28	27° \mathfrak{A} 39'56	1.44074 AU
evening set	871 Dec 18 j 19:42	13° \mathfrak{Z} 00'44			872 Oct 14 j 00:36	0° \mathbb{M}	
inferior conj	871 Dec 24 j 07:43	7° \mathfrak{Z} 02'40	2°56'42	evening rise	872 Oct 22 j 09:10	13° \mathbb{M} 04'12	
minimum elong	871 Dec 24 j 05:01	7° \mathfrak{Z} 11'35	2°56'00		872 Nov 02 j 13:20	0° \mathfrak{A}	
min. Earth dist.	871 Dec 25 j 09:38	5° \mathfrak{Z} 37'25	0.66565 AU	evening max el	872 Nov 19 j 23:39	23° \mathfrak{A} 25'48	20°43'04
morning rise	871 Dec 29 j 14:06	0° \mathfrak{Z} 50'03		retrograde	872 Nov 28 j 04:48	28° \mathfrak{A} 17'11	
	871 Dec 30 j 14:13	30° \mathcal{R} \mathfrak{A}		asc. node	872 Nov 30 j 04:48	27° \mathfrak{A} 54'38	
direct	872 Jan 04 j 16:17	28° \mathfrak{A} 07'32		evening set	872 Dec 02 j 02:39	26° \mathfrak{A} 49'32	
	872 Jan 10 j 09:09	0° \mathfrak{Z}		inferior conj	872 Dec 07 j 12:04	20° \mathfrak{A} 40'02	2°18'38
morning max el	872 Jan 16 j 21:06	5° \mathfrak{Z} 22'54	25°37'37	minimum elong	872 Dec 07 j 09:29	20° \mathfrak{A} 48'49	2°17'48
desc. node	872 Jan 22 j 09:00	11° \mathfrak{Z} 30'48		min. Earth dist.	872 Dec 08 j 01:18	19° \mathfrak{A} 54'52	0.67306 AU
	872 Feb 04 j 20:58	0° \approx		morning rise	872 Dec 12 j 16:07	14° \mathfrak{A} 26'44	
morning set	872 Feb 22 j 03:28	28° \approx 42'02		direct	872 Dec 18 j 03:45	12° \mathfrak{A} 01'52	
	872 Feb 22 j 20:29	0° \mathfrak{H}		morning max el	872 Dec 29 j 05:22	18° \mathfrak{A} 37'57	24°13'26
max. Earth dist.	872 Feb 25 j 22:07	5° \mathfrak{H} 44'11	1.36028 AU		873 Jan 07 j 19:30	0° \mathfrak{Z}	
				desc. node	873 Jan 08 j 06:03	0° \mathfrak{Z} 34'53	
superior conj	872 Mar 02 j 14:21	16° \mathfrak{H} 49'34	-1°21'13		873 Jan 27 j 23:37	0° \approx	
minimum elong	872 Mar 02 j 18:06	17° \mathfrak{H} 08'23	1°20'38	morning set	873 Feb 03 j 01:05	10° \approx 13'15	
	872 Mar 09 j 01:43	0° \mathbb{Y}		max. Earth dist.	873 Feb 06 j 18:25	16° \approx 47'42	1.38010 AU
evening rise	872 Mar 10 j 15:21	3° \mathbb{Y} 11'57					
asc. node	872 Mar 11 j 07:05	4° \mathbb{Y} 31'38		superior conj	873 Feb 13 j 19:40	29° \approx 53'39	-1°43'24
	872 Mar 26 j 12:24	0° \mathfrak{B}		minimum elong	873 Feb 13 j 23:40	0° \mathfrak{H} 12'50	1°42'59
evening max el	872 Mar 28 j 09:35	1° \mathfrak{B} 58'38	19°58'57		873 Feb 13 j 21:00	0° \mathfrak{H}	
retrograde	872 Apr 07 j 14:27	6° \mathfrak{B} 53'11		evening rise	873 Feb 22 j 14:37	17° \mathfrak{H} 07'14	
evening set	872 Apr 09 j 15:59	6° \mathfrak{B} 42'01		asc. node	873 Feb 26 j 04:09	24° \mathfrak{H} 03'35	
inferior conj	872 Apr 18 j 13:17	2° \mathfrak{B} 42'12	0°13'35		873 Mar 01 j 09:07	0° \mathbb{Y}	
minimum elong	872 Apr 18 j 13:53	2° \mathfrak{B} 41'16	0°13'22	evening max el	873 Mar 11 j 05:24	13° \mathbb{Y} 58'51	19°02'09
transit middle	872 Apr 18 j 13:53	2° \mathfrak{B} 41'16	0°13'22	retrograde	873 Mar 19 j 19:34	18° \mathbb{Y} 07'56	
transit begin	872 Apr 18 j 11:43	2° \mathfrak{B} 44'34		evening set	873 Mar 22 j 00:49	17° \mathbb{Y} 52'28	
transit end	872 Apr 18 j 16:03	2° \mathfrak{B} 37'59		inferior conj	873 Mar 30 j 03:20	13° \mathbb{Y} 38'26	1°55'06
desc. node	872 Apr 19 j 08:12	2° \mathfrak{B} 13'27		minimum elong	873 Mar 30 j 07:15	13° \mathbb{Y} 31'35	1°53'55
min. Earth dist.	872 Apr 20 j 14:13	1° \mathfrak{B} 28'10	0.55455 AU	min. Earth dist.	873 Apr 02 j 05:48	11° \mathbb{Y} 29'36	0.56820 AU
	872 Apr 23 j 04:45	30° \mathcal{R} \mathbb{Y}		desc. node	873 Apr 06 j 05:14	9° \mathbb{Y} 10'19	
morning rise	872 Apr 27 j 09:40	28° \mathbb{Y} 15'14		morning rise	873 Apr 07 j 10:40	8° \mathbb{Y} 38'07	
direct	872 May 01 j 10:44	27° \mathbb{Y} 39'13		direct	873 Apr 12 j 13:53	7° \mathbb{Y} 35'56	
	872 May 09 j 09:25	0° \mathfrak{B}		morning max el	873 Apr 26 j 20:17	14° \mathbb{Y} 58'07	25°40'21
morning max el	872 May 15 j 05:43	4° \mathfrak{B} 29'31	24°03'59		873 May 08 j 20:31	0° \mathfrak{B}	
	872 Jun 02 j 03:26	0° \mathbb{I}		morning set	873 May 24 j 07:02	28° \mathfrak{B} 15'09	
asc. node	872 Jun 07 j 06:19	10° \mathbb{I} 05'30		asc. node	873 May 25 j 03:24	0° \mathbb{I} 03'00	
morning set	872 Jun 08 j 19:20	13° \mathbb{I} 18'35			873 May 25 j 02:50	0° \mathbb{I}	
superior conj	872 Jun 15 j 19:59	28° \mathbb{I} 26'27	1°19'32	superior conj	873 May 31 j 06:41	13° \mathbb{I} 23'18	1°00'49
minimum elong	872 Jun 15 j 17:32	28° \mathbb{I} 13'10	1°19'11	minimum elong	873 May 31 j 04:25	13° \mathbb{I} 10'57	1°00'25
	872 Jun 16 j 13:20	0° \mathfrak{G}		max. Earth dist.	873 Jun 01 j 03:24	15° \mathbb{I} 16'40	1.32583 AU
max. Earth dist.	872 Jun 17 j 18:20	2° \mathfrak{G} 35'40	1.33260 AU	evening rise	873 Jun 07 j 08:13	28° \mathbb{I} 31'54	

	873 Jun 08 j 01:19	0°☿			874 May 16 j 12:24	0°♊
	873 Jun 24 j 21:44	0°♋		evening rise	874 May 22 j 16:08	13°♊19'09
desc. node	873 Jul 03 j 04:31	11°♋13'43			874 May 31 j 03:33	0°☿
evening max el	873 Jul 08 j 23:18	17°♋28'30	27°12'48	desc. node	874 Jun 20 j 01:32	28°☿26'16
retrograde	873 Jul 22 j 19:54	24°♋44'15		evening max el	874 Jun 21 j 00:32	29°☿22'26 26°27'03
evening set	873 Jul 29 j 22:52	22°♋23'58			874 Jun 21 j 16:37	0°♋
min. Earth dist.	873 Aug 02 j 13:26	19°♋37'20	0.61780 AU	retrograde	874 Jul 05 j 00:18	6°♋35'35
inferior conj	873 Aug 05 j 15:11	16°♋50'57	-4°14'39	evening set	874 Jul 11 j 14:24	4°♋46'49
minimum elong	873 Aug 05 j 19:56	16°♋40'11	4°13'42	min. Earth dist.	874 Jul 15 j 13:37	2°♋10'14 0.59736 AU
morning rise	873 Aug 12 j 18:30	11°♋52'56			874 Jul 18 j 08:02	30°☿☿
direct	873 Aug 15 j 05:30	11°♋27'10		inferior conj	874 Jul 18 j 21:30	29°☿33'15 -4°44'46
asc. node	873 Aug 21 j 02:36	13°♋58'58		minimum elong	874 Jul 19 j 00:08	29°☿28'01 4°44'33
morning max el	873 Aug 22 j 03:28	14°♋55'40	17°56'04	morning rise	874 Jul 26 j 11:55	24°☿57'50
	873 Sep 01 j 13:01	0°♎		direct	874 Jul 28 j 23:15	24°☿35'52
morning set	873 Sep 07 j 02:23	9°♎59'27		morning max el	874 Aug 05 j 13:56	28°☿16'38 18°18'01
					874 Aug 07 j 05:17	0°♋
superior conj	873 Sep 17 j 16:46	28°♎55'28	1°12'13	asc. node	874 Aug 07 j 23:40	0°♋54'17
minimum elong	873 Sep 17 j 21:31	29°♎16'02	1°11'40	morning set	874 Aug 21 j 13:21	23°♋40'17
	873 Sep 18 j 07:43	0°♌			874 Aug 24 j 21:15	0°♎
max. Earth dist.	873 Sep 25 j 02:37	11°♌25'34	1.42629 AU	superior conj	874 Aug 30 j 20:44	11°♎08'45 1°34'05
desc. node	873 Sep 29 j 03:50	17°♌59'42		minimum elong	874 Aug 31 j 00:05	11°♎24'01 1°33'48
evening rise	873 Oct 01 j 20:57	22°♌18'10		max. Earth dist.	874 Sep 07 j 10:17	24°♎31'14 1.40766 AU
	873 Oct 06 j 19:57	0°♍			874 Sep 10 j 16:17	0°♌
	873 Oct 27 j 20:03	0°♊		evening rise	874 Sep 12 j 03:19	2°♌24'43
evening max el	873 Nov 02 j 19:44	6°♊55'59	21°56'10	desc. node	874 Sep 16 j 00:51	8°♌42'27
retrograde	873 Nov 12 j 01:20	12°♊25'30			874 Sep 30 j 04:39	0°♍
evening set	873 Nov 16 j 10:24	10°♊41'13		evening max el	874 Oct 16 j 10:54	20°♍27'58 23°15'22
asc. node	873 Nov 17 j 01:51	10°♊07'56		retrograde	874 Oct 26 j 19:14	26°♍35'44
inferior conj	873 Nov 21 j 18:47	4°♊23'31	1°33'48	evening set	874 Oct 31 j 17:16	24°♍33'53
minimum elong	873 Nov 21 j 16:49	4°♊30'22	1°33'03	asc. node	874 Nov 03 j 22:54	21°♍03'43
min. Earth dist.	873 Nov 21 j 20:37	4°♊17'12	0.67683 AU	min. Earth dist.	874 Nov 05 j 17:17	18°♍41'52 0.67724 AU
	873 Nov 25 j 03:48	30°♍♍		inferior conj	874 Nov 06 j 02:04	18°♍11'41 0°43'45
morning rise	873 Nov 26 j 23:04	28°♍11'29		minimum elong	874 Nov 06 j 01:04	18°♍15'10 0°43'19
direct	873 Dec 01 j 19:30	26°♍08'42		morning rise	874 Nov 11 j 08:48	12°♍02'56
	873 Dec 09 j 13:26	0°♊		direct	874 Nov 15 j 14:42	10°♍22'57
morning max el	873 Dec 11 j 15:22	1°♊58'03	22°45'18	morning max el	874 Nov 24 j 06:37	15°♍26'43 21°21'40
desc. node	873 Dec 26 j 03:05	20°♊13'05			874 Dec 05 j 21:36	0°♊
	874 Jan 01 j 20:04	0°♋		desc. node	874 Dec 13 j 00:07	10°♊15'55
morning set	874 Jan 14 j 19:41	20°♋23'28		morning set	874 Dec 25 j 09:34	29°♊13'06
max. Earth dist.	874 Jan 19 j 14:20	28°♋24'28	1.40153 AU		874 Dec 25 j 21:27	0°♋
	874 Jan 20 j 12:36	0°♌		max. Earth dist.	875 Jan 01 j 15:46	10°♋54'03 1.42164 AU
superior conj	874 Jan 27 j 08:54	12°♌07'35	-1°58'46	superior conj	875 Jan 09 j 00:43	23°♋18'39 -2°03'05
minimum elong	874 Jan 27 j 11:35	12°♌19'51	1°58'39	minimum elong	875 Jan 08 j 23:50	23°♋14'49 2°03'04
	874 Feb 05 j 22:05	0°♎			875 Jan 12 j 20:44	0°♌
evening rise	874 Feb 06 j 04:26	0°♎30'09		evening rise	875 Jan 20 j 05:12	13°♌12'31
asc. node	874 Feb 13 j 01:11	13°♎12'18			875 Jan 29 j 18:19	0°♎
evening max el	874 Feb 22 j 09:48	26°♎31'41	18°25'25	asc. node	875 Jan 30 j 22:13	1°♎50'24
	874 Feb 28 j 03:26	0°♏		evening max el	875 Feb 05 j 19:40	9°♎28'54 18°08'42
retrograde	874 Mar 01 j 19:52	0°♏11'16		retrograde	875 Feb 12 j 13:22	12°♎54'55
	874 Mar 03 j 13:01	30°♎♎		evening set	875 Feb 15 j 05:08	12°♎23'14
evening set	874 Mar 04 j 06:38	29°♎48'32		inferior conj	875 Feb 21 j 21:34	7°♎28'08 3°37'59
inferior conj	874 Mar 11 j 14:29	25°♎14'22	3°02'55	minimum elong	875 Feb 21 j 23:25	7°♎23'46 3°37'49
minimum elong	874 Mar 11 j 18:15	25°♎06'39	3°02'09	min. Earth dist.	875 Feb 25 j 02:43	4°♎27'06 0.60857 AU
min. Earth dist.	874 Mar 15 j 00:58	22°♎27'28	0.58737 AU	morning rise	875 Feb 28 j 15:56	1°♎39'07
morning rise	874 Mar 19 j 03:15	19°♎44'58			875 Mar 03 j 23:08	30°♎♎
desc. node	874 Mar 24 j 02:16	18°♎10'28		direct	875 Mar 07 j 10:17	29°♎24'56
direct	874 Mar 25 j 06:17	18°♎06'54		desc. node	875 Mar 10 j 23:19	29°♎59'08
morning max el	874 Apr 08 j 14:51	25°♎47'51	26°56'21		875 Mar 11 j 00:25	0°♎
	874 Apr 12 j 13:08	0°♏		morning max el	875 Mar 21 j 15:44	7°♎16'15 27°39'58
	874 May 02 j 03:14	0°♐			875 Apr 07 j 21:11	0°♏
morning set	874 May 08 j 17:00	13°♐05'35		morning set	875 Apr 22 j 23:23	27°♏43'09
asc. node	874 May 12 j 00:28	20°♐09'10			875 Apr 24 j 01:46	0°♐
				asc. node	875 Apr 28 j 21:30	10°♐19'10
superior conj	874 May 15 j 18:27	28°♐21'19	0°38'46	max. Earth dist.	875 Apr 29 j 03:38	10°♐52'32 1.32350 AU
minimum elong	874 May 15 j 16:50	28°♐12'24	0°38'26			
max. Earth dist.	874 May 15 j 15:50	28°♐06'54	1.32278 AU			

superior conj	875 Apr 30 j 05:35	13°♄14'22	0°14'07	morning set	876 Apr 06 j 00:01	12°♄00'41	
minimum elong	875 Apr 30 j 04:56	13°♄10'51	0°13'59	max. Earth dist.	876 Apr 11 j 10:55	23°♄20'30	1.32819 AU
behind sun begin	875 Apr 30 j 02:33	12°♄57'44					
behind sun end	875 Apr 30 j 07:20	13°♄23'58		superior conj	876 Apr 13 j 14:24	27°♄56'51	-0°12'22
evening rise	875 May 07 j 02:58	28°♄12'10		minimum elong	876 Apr 13 j 15:00	28°♄00'03	0°12'14
	875 May 07 j 23:26	0°♄		behind sun begin	876 Apr 13 j 11:38	27°♄41'55	
	875 May 24 j 22:13	0°♄		behind sun end	876 Apr 13 j 18:21	28°♄18'12	
evening max el	875 Jun 02 j 18:38	10°♄30'05	25°12'26	asc. node	876 Apr 14 j 18:32	0°♄29'06	
desc. node	875 Jun 06 j 22:35	13°♄59'28			876 Apr 14 j 13:10	0°♄	
retrograde	875 Jun 16 j 19:01	17°♄38'22		evening rise	876 Apr 20 j 14:47	13°♄04'43	
evening set	875 Jun 22 j 06:45	16°♄28'37			876 Apr 29 j 04:49	0°♄	
min. Earth dist.	875 Jun 27 j 06:22	13°♄43'27	0.57719 AU	evening max el	876 May 14 j 08:54	21°♄07'26	23°40'09
inferior conj	875 Jun 30 j 08:55	11°♄36'17	-4°48'34	desc. node	876 May 23 j 19:35	27°♄17'54	
minimum elong	875 Jun 30 j 07:12	11°♄39'15	4°48'29	retrograde	876 May 28 j 01:37	27°♄59'00	
morning rise	875 Jul 08 j 10:20	7°♄23'10		evening set	876 Jun 01 j 02:07	27°♄23'23	
direct	875 Jul 10 j 23:44	7°♄03'39		min. Earth dist.	876 Jun 07 j 19:31	24°♄14'36	0.56063 AU
morning max el	875 Jul 19 j 16:59	11°♄08'55	19°00'38	inferior conj	876 Jun 10 j 00:12	22°♄55'14	-4°12'37
asc. node	875 Jul 25 j 20:43	18°♄46'04		minimum elong	876 Jun 09 j 17:47	23°♄04'57	4°11'24
	875 Aug 01 j 09:11	0°♄		morning rise	876 Jun 18 j 12:09	18°♄58'10	
morning set	875 Aug 05 j 10:21	7°♄50'24		direct	876 Jun 21 j 04:58	18°♄39'49	
				morning max el	876 Jul 01 j 09:57	23°♄23'23	20°04'22
superior conj	875 Aug 13 j 19:44	24°♄18'44	1°44'42		876 Jul 07 j 01:31	0°♄	
minimum elong	875 Aug 13 j 21:03	24°♄24'58	1°44'39	asc. node	876 Jul 11 j 17:45	7°♄21'33	
	875 Aug 16 j 19:47	0°♄		morning set	876 Jul 19 j 14:15	22°♄21'40	
max. Earth dist.	875 Aug 20 j 13:38	6°♄51'56	1.38731 AU		876 Jul 23 j 07:58	0°♄	
evening rise	875 Aug 24 j 10:06	13°♄39'33					
desc. node	875 Sep 02 j 21:53	29°♄16'55		superior conj	876 Jul 27 j 08:35	8°♄10'26	1°46'06
	875 Sep 03 j 08:53	0°♄		minimum elong	876 Jul 27 j 08:05	8°♄07'58	1°46'06
	875 Sep 25 j 04:03	0°♄		max. Earth dist.	876 Aug 01 j 18:14	18°♄44'56	1.36785 AU
evening max el	875 Sep 28 j 23:12	4°♄03'11	24°34'40	evening rise	876 Aug 05 j 15:36	25°♄59'29	
retrograde	875 Oct 10 j 09:26	10°♄43'39			876 Aug 07 j 21:11	0°♄	
evening set	875 Oct 15 j 21:33	8°♄24'46		desc. node	876 Aug 19 j 18:54	19°♄38'08	
min. Earth dist.	875 Oct 20 j 12:55	3°♄06'19	0.67435 AU		876 Aug 26 j 20:45	0°♄	
inferior conj	875 Oct 21 j 08:09	2°♄02'07	-0°10'10	evening max el	876 Sep 10 j 10:56	17°♄41'27	25°46'46
minimum elong	875 Oct 21 j 08:24	2°♄01'17	0°10'04	retrograde	876 Sep 22 j 18:58	24°♄44'26	
transit middle	875 Oct 21 j 08:24	2°♄01'17	0°10'04	evening set	876 Sep 28 j 21:30	22°♄10'58	
transit begin	875 Oct 21 j 06:14	2°♄08'29		min. Earth dist.	876 Oct 03 j 05:05	17°♄28'05	0.66818 AU
transit end	875 Oct 21 j 10:33	1°♄54'06		inferior conj	876 Oct 04 j 11:14	15°♄52'17	-1°06'33
asc. node	875 Oct 21 j 19:56	1°♄22'54		minimum elong	876 Oct 04 j 12:57	15°♄46'51	1°05'50
	875 Oct 22 j 21:25	30°♄		asc. node	876 Oct 07 j 16:57	12°♄02'36	
morning rise	875 Oct 26 j 19:19	25°♄59'04		morning rise	876 Oct 10 j 04:40	9°♄57'41	
direct	875 Oct 30 j 12:18	24°♄40'06		direct	876 Oct 13 j 10:48	8°♄56'33	
morning max el	875 Nov 07 j 05:13	29°♄05'33	20°08'39	morning max el	876 Oct 20 j 11:17	12°♄53'20	19°09'46
	875 Nov 08 j 02:07	0°♄			876 Nov 02 j 03:04	0°♄	
	875 Nov 29 j 11:37	0°♄		morning set	876 Nov 12 j 10:36	15°♄58'32	
desc. node	875 Nov 29 j 21:08	0°♄36'23		desc. node	876 Nov 15 j 18:10	21°♄09'07	
morning set	875 Dec 04 j 06:21	7°♄20'44			876 Nov 21 j 09:54	0°♄	
max. Earth dist.	875 Dec 15 j 00:30	24°♄14'45	1.43774 AU	max. Earth dist.	876 Nov 26 j 15:40	8°♄14'06	1.44789 AU
	875 Dec 18 j 14:10	0°♄					
superior conj	875 Dec 20 j 14:37	3°♄17'38	-1°51'33	superior conj	876 Nov 29 j 03:31	12°♄10'32	-1°21'19
minimum elong	875 Dec 20 j 08:36	2°♄52'59	1°51'10	minimum elong	876 Nov 28 j 18:58	11°♄36'43	1°20'26
evening rise	876 Jan 02 j 12:37	25°♄05'48			876 Dec 10 j 05:55	0°♄	
	876 Jan 05 j 08:39	0°♄		evening rise	876 Dec 13 j 22:30	6°♄02'31	
asc. node	876 Jan 17 j 19:14	19°♄48'26			876 Dec 28 j 22:34	0°♄	
evening max el	876 Jan 20 j 08:03	22°♄42'34	18°11'25	evening max el	877 Jan 02 j 20:09	6°♄05'15	18°32'40
retrograde	876 Jan 26 j 19:34	26°♄08'45		asc. node	877 Jan 03 j 16:16	6°♄54'03	
evening set	876 Jan 29 j 16:07	25°♄27'01		retrograde	877 Jan 09 j 10:11	9°♄43'23	
inferior conj	876 Feb 04 j 20:51	20°♄11'51	3°47'21	evening set	877 Jan 12 j 12:02	8°♄50'33	
minimum elong	876 Feb 04 j 20:37	20°♄12'27	3°47'20	inferior conj	877 Jan 18 j 08:16	3°♄16'50	3°37'55
min. Earth dist.	876 Feb 07 j 13:14	17°♄20'25	0.62881 AU	minimum elong	877 Jan 18 j 06:32	3°♄21'57	3°37'42
morning rise	876 Feb 11 j 00:07	14°♄11'24		min. Earth dist.	877 Jan 20 j 09:12	0°♄52'30	0.64619 AU
direct	876 Feb 17 j 23:38	11°♄31'00			877 Jan 21 j 03:43	30°♄	
desc. node	876 Feb 25 j 20:20	14°♄19'33		morning rise	877 Jan 24 j 00:32	27°♄09'44	
morning max el	876 Mar 02 j 21:59	19°♄25'20	27°46'31	direct	877 Jan 30 j 20:18	24°♄18'02	
	876 Mar 11 j 22:27	0°♄			877 Feb 11 j 01:56	0°♄	
	876 Mar 30 j 18:45	0°♄		desc. node	877 Feb 11 j 17:22	0°♄35'12	
				morning max el	877 Feb 13 j 07:05	2°♄06'15	27°17'50

	877 Mar 06 j 03:32	0° H		morning max el	878 Jan 26 j 16:42	15° Z 08'26	26°20'18
morning set	877 Mar 20 j 16:04	25° H 48'02		desc. node	878 Jan 29 j 14:25	18° Z 14'14	
	877 Mar 22 j 19:04	0° Y			878 Feb 07 j 22:00	0° \approx	
max. Earth dist.	877 Mar 25 j 09:47	5° Y 18'15	1.33715 AU		878 Feb 26 j 22:30	0° H	
				morning set	878 Mar 03 j 19:48	8° H 54'14	
superior conj	877 Mar 28 j 18:56	12° Y 21'31	-0°39'42	max. Earth dist.	878 Mar 07 j 21:34	16° H 42'59	1.35066 AU
minimum elong	877 Mar 28 j 20:53	12° Y 31'50	0°39'18				
asc. node	877 Apr 01 j 15:34	20° Y 34'08		superior conj	878 Mar 12 j 16:54	26° H 21'31	-1°06'36
evening rise	877 Apr 05 j 01:46	27° Y 49'31		minimum elong	878 Mar 12 j 20:07	26° H 37'58	1°06'02
	877 Apr 06 j 02:48	0° B			878 Mar 14 j 11:21	0° Y	
	877 Apr 24 j 10:01	0° II		asc. node	878 Mar 19 j 12:37	10° Y 30'09	
evening max el	877 Apr 26 j 01:55	1° II 42'18	22°05'09	evening rise	878 Mar 20 j 10:00	12° Y 20'34	
retrograde	877 May 08 j 19:40	7° II 57'57			878 Mar 29 j 16:13	0° B	
desc. node	877 May 10 j 16:36	7° II 50'06		evening max el	878 Apr 08 j 03:59	12° B 42'00	20°40'06
evening set	877 May 11 j 13:43	7° II 41'10		retrograde	878 Apr 19 j 08:38	18° B 07'11	
inferior conj	877 May 20 j 23:14	3° II 35'06	-2°50'01	evening set	878 Apr 21 j 11:57	17° B 56'07	
minimum elong	877 May 20 j 16:07	3° II 45'07	2°47'50	desc. node	878 Apr 27 j 13:38	15° B 43'17	
min. Earth dist.	877 May 20 j 07:42	3° II 56'56	0.55101 AU	inferior conj	878 Apr 30 j 17:23	13° B 58'24	-0°54'44
	877 May 28 j 14:40	30° R B		minimum elong	878 Apr 30 j 14:48	14° B 02'07	0°53'48
morning rise	877 May 29 j 20:00	29° B 41'07		min. Earth dist.	878 May 01 j 20:28	13° B 19'31	0.55054 AU
direct	877 Jun 01 j 19:16	29° B 21'23		morning rise	878 May 09 j 16:54	9° B 48'40	
	877 Jun 05 j 20:18	0° II		direct	878 May 13 j 05:42	9° B 21'46	
morning max el	877 Jun 13 j 15:30	4° II 54'04	21°27'49	morning max el	878 May 26 j 11:24	15° B 45'31	23°05'33
asc. node	877 Jun 28 j 14:48	26° II 29'59			878 Jun 06 j 15:45	0° II	
	877 Jun 30 j 10:16	0° E		asc. node	878 Jun 15 j 11:51	16° II 02'53	
morning set	877 Jul 03 j 22:42	7° E 07'41		morning set	878 Jun 18 j 09:45	22° II 02'26	
					878 Jun 22 j 03:30	0° E	
superior conj	877 Jul 11 j 07:08	22° E 31'52	1°40'12				
minimum elong	877 Jul 11 j 05:25	22° E 22'55	1°40'05	superior conj	878 Jun 25 j 12:16	7° E 13'22	1°28'28
	877 Jul 14 j 22:35	0° Ω		minimum elong	878 Jun 25 j 09:55	7° E 00'50	1°28'11
max. Earth dist.	877 Jul 15 j 06:01	0° Ω 37'23	1.35117 AU	max. Earth dist.	878 Jun 28 j 03:15	12° E 47'02	1.33821 AU
evening rise	877 Jul 19 j 15:13	9° Ω 12'31		evening rise	878 Jul 03 j 04:18	23° E 05'30	
	877 Jul 31 j 10:19	0° np			878 Jul 06 j 18:01	0° Ω	
desc. node	877 Aug 06 j 15:55	9° np 39'54		desc. node	878 Jul 24 j 12:58	29° Ω 13'22	
	877 Aug 22 j 15:49	0° $\underline{\text{a}}$			878 Jul 25 j 02:21	0° np	
evening max el	877 Aug 23 j 23:06	1° $\underline{\text{a}}$ 17'30	26°43'50	evening max el	878 Aug 06 j 10:53	14° np 40'14	27°18'21
retrograde	877 Sep 05 j 23:15	8° $\underline{\text{a}}$ 32'18		retrograde	878 Aug 19 j 21:50	21° np 58'58	
evening set	877 Sep 12 j 15:01	5° $\underline{\text{a}}$ 49'21		evening set	878 Aug 26 j 23:28	19° np 14'53	
min. Earth dist.	877 Sep 16 j 15:20	1° $\underline{\text{a}}$ 43'26	0.65857 AU	min. Earth dist.	878 Aug 30 j 17:20	15° np 45'08	0.64538 AU
inferior conj	877 Sep 18 j 09:24	29° np 38'52	-2°03'41	inferior conj	878 Sep 02 j 00:19	13° np 16'27	-2°59'18
minimum elong	877 Sep 18 j 12:37	29° np 29'21	2°02'26	minimum elong	878 Sep 02 j 04:48	13° np 04'18	2°57'48
	877 Sep 18 j 02:18	30° R np		morning rise	878 Sep 08 j 11:00	7° np 48'37	
morning rise	877 Sep 24 j 10:45	23° np 55'58		direct	878 Sep 11 j 02:29	7° np 12'23	
asc. node	877 Sep 24 j 14:00	23° np 51'44		asc. node	878 Sep 11 j 11:03	7° np 13'03	
direct	877 Sep 27 j 08:22	23° np 09'02		morning max el	878 Sep 17 j 14:35	10° np 39'54	18°00'48
morning max el	877 Oct 03 j 23:15	26° np 46'45	18°26'52		878 Sep 30 j 19:33	0° $\underline{\text{a}}$	
	877 Oct 06 j 18:53	0° $\underline{\text{a}}$		morning set	878 Oct 05 j 03:21	7° $\underline{\text{a}}$ 17'45	
morning set	877 Oct 23 j 16:47	25° $\underline{\text{a}}$ 56'46					
	877 Oct 26 j 05:12	0° ml		superior conj	878 Oct 18 j 14:57	29° $\underline{\text{a}}$ 34'23	0°12'35
desc. node	877 Nov 02 j 15:12	11° ml 50'18		minimum elong	878 Oct 18 j 16:26	29° $\underline{\text{a}}$ 40'21	0°12'23
				behind sun begin	878 Oct 18 j 09:38	29° $\underline{\text{a}}$ 12'56	
superior conj	877 Nov 08 j 04:24	20° ml 36'03	-0°36'12	behind sun end	878 Oct 18 j 23:15	0° ml 07'44	
minimum elong	877 Nov 07 j 23:41	20° ml 17'29	0°35'34		878 Oct 18 j 21:19	0° ml	
max. Earth dist.	877 Nov 09 j 10:34	22° ml 34'39	1.45086 AU	desc. node	878 Oct 20 j 12:14	2° ml 35'56	
	877 Nov 14 j 04:02	0° Z		max. Earth dist.	878 Oct 23 j 05:26	6° ml 55'14	1.44639 AU
evening rise	877 Nov 24 j 08:53	16° Z 02'13		evening rise	878 Nov 03 j 23:24	25° ml 15'31	
	877 Dec 03 j 05:48	0° Z			878 Nov 07 j 01:22	0° Z	
greatest brilliancy	877 Dec 04 j 07:29	1° Z 39'59	-0.8m	greatest brilliancy	878 Nov 18 j 02:06	16° Z 41'12	-0.6m
evening max el	877 Dec 17 j 05:37	19° Z 32'40	19°11'18		878 Nov 27 j 18:07	0° Z	
asc. node	877 Dec 21 j 13:17	22° Z 53'38		evening max el	878 Nov 30 j 10:28	3° Z 01'13	20°05'39
retrograde	877 Dec 24 j 05:45	23° Z 33'04		retrograde	878 Dec 08 j 03:27	7° Z 32'26	
evening set	877 Dec 27 j 14:03	22° Z 27'52		asc. node	878 Dec 08 j 10:20	7° Z 31'58	
inferior conj	878 Jan 02 j 04:25	16° Z 37'46	3°14'48	evening set	878 Dec 11 j 19:48	6° Z 13'24	
minimum elong	878 Jan 02 j 01:53	16° Z 45'51	3°14'16	inferior conj	878 Dec 17 j 06:28	0° Z 09'49	2°41'29
min. Earth dist.	878 Jan 03 j 14:15	14° Z 50'04	0.65974 AU	minimum elong	878 Dec 17 j 03:45	0° Z 18'55	2°40'42
morning rise	878 Jan 07 j 13:28	10° Z 26'42			878 Dec 17 j 09:23	30° R Z	
direct	878 Jan 13 j 23:10	7° Z 37'51		min. Earth dist.	878 Dec 18 j 02:41	29° Z 01'59	0.66926 AU




































































































































morning rise	878 Dec 22 j 11:31	23° ♄ 56'42		morning rise	879 Dec 06 j 15:54	7° ♄ 36'35	
direct	878 Dec 28 j 07:34	21° ♄ 21'15		direct	879 Dec 11 j 20:56	5° ♄ 20'53	
morning max el	879 Jan 09 j 01:33	28° ♄ 21'12	25°02'58	morning max el	879 Dec 22 j 10:16	11° ♄ 38'19	23°35'53
	879 Jan 10 j 15:26	0° ♄		desc. node	880 Jan 03 j 08:30	26° ♄ 11'47	
desc. node	879 Jan 16 j 11:28	6° ♄ 52'07			880 Jan 06 j 02:06	0° ♄	
	879 Feb 01 j 16:09	0° ♄			880 Jan 25 j 11:45	0° ♄	
morning set	879 Feb 14 j 06:15	21° ♄ 05'13		morning set	880 Jan 26 j 17:07	2° ♄ 03'51	
max. Earth dist.	879 Feb 17 j 22:25	27° ♄ 46'44	1.36840 AU	max. Earth dist.	880 Jan 30 j 17:19	8° ♄ 59'06	1.38911 AU
	879 Feb 19 j 02:58	0° ♄					
superior conj	879 Feb 24 j 05:22	9° ♄ 48'46	-1°31'13	superior conj	880 Feb 07 j 04:26	22° ♄ 32'46	-1°50'58
minimum elong	879 Feb 24 j 09:22	10° ♄ 08'27	1°30'42	minimum elong	880 Feb 07 j 08:08	22° ♄ 50'05	1°50'42
evening rise	879 Mar 04 j 13:18	26° ♄ 31'16			880 Feb 11 j 02:30	0° ♄	
asc. node	879 Mar 06 j 09:41	0° ♄ 12'36		evening rise	880 Feb 16 j 08:59	10° ♄ 13'43	
	879 Mar 06 j 07:08	0° ♄		asc. node	880 Feb 21 j 06:44	19° ♄ 35'28	
evening max el	879 Mar 21 j 17:35	24° ♄ 20'18	19°32'16		880 Feb 27 j 10:06	0° ♄	
retrograde	879 Mar 31 j 05:15	28° ♄ 54'23		evening max el	880 Mar 03 j 17:26	6° ♄ 35'35	18°44'04
evening set	879 Apr 02 j 07:37	28° ♄ 41'57		retrograde	880 Mar 11 j 18:24	10° ♄ 30'11	
inferior conj	879 Apr 10 j 21:15	24° ♄ 36'55	1°00'16	evening set	880 Mar 14 j 01:50	10° ♄ 12'03	
minimum elong	879 Apr 10 j 23:43	24° ♄ 32'57	0°59'25	inferior conj	880 Mar 21 j 20:10	5° ♄ 50'06	2°28'09
min. Earth dist.	879 Apr 13 j 10:59	22° ♄ 58'22	0.55944 AU	minimum elong	880 Mar 22 j 00:23	5° ♄ 42'15	2°27'02
desc. node	879 Apr 14 j 10:40	22° ♄ 22'14		min. Earth dist.	880 Mar 25 j 04:10	3° ♄ 22'09	0.57584 AU
morning rise	879 Apr 19 j 13:08	19° ♄ 55'46		morning rise	880 Mar 29 j 19:52	0° ♄ 36'01	
direct	879 Apr 24 j 00:43	19° ♄ 10'29		desc. node	880 Mar 31 j 07:43	0° ♄ 00'42	
morning max el	879 May 08 j 02:28	26° ♄ 16'17	24°46'35		880 Mar 31 j 08:33	30° ♄	
	879 May 11 j 15:38	0° ♄		direct	880 Apr 04 j 09:53	29° ♄ 19'07	
	879 May 30 j 11:58	0° ♄			880 Apr 08 j 12:24	0° ♄	
asc. node	879 Jun 02 j 08:56	5° ♄ 53'32		morning max el	880 Apr 18 j 18:20	6° ♄ 51'34	26°15'55
morning set	879 Jun 02 j 21:43	7° ♄ 00'42			880 May 05 j 21:33	0° ♄	
				morning set	880 May 17 j 08:53	21° ♄ 55'26	
superior conj	879 Jun 09 j 21:34	22° ♄ 07'25	1°12'03	asc. node	880 May 19 j 06:00	25° ♄ 55'15	
minimum elong	879 Jun 09 j 19:09	21° ♄ 54'13	1°11'40		880 May 21 j 03:14	0° ♄	
max. Earth dist.	879 Jun 11 j 08:46	25° ♄ 18'19	1.32921 AU	superior conj	880 May 24 j 08:57	7° ♄ 05'48	0°51'51
	879 Jun 13 j 13:16	0° ♄		minimum elong	880 May 24 j 06:55	6° ♄ 54'38	0°51'27
evening rise	879 Jun 17 j 03:05	7° ♄ 27'40		max. Earth dist.	880 May 24 j 19:31	8° ♄ 03'46	1.32406 AU
	879 Jun 29 j 05:29	0° ♄		evening rise	880 May 31 j 08:22	22° ♄ 08'03	
desc. node	879 Jul 11 j 09:59	18° ♄ 06'46			880 Jun 04 j 05:24	0° ♄	
evening max el	879 Jul 19 j 20:25	27° ♄ 37'36	27°24'04		880 Jun 22 j 08:53	0° ♄	
	879 Jul 22 j 12:52	0° ♄		desc. node	880 Jun 27 j 07:01	6° ♄ 02'29	
retrograde	879 Aug 02 j 14:24	4° ♄ 55'47		evening max el	880 Jul 01 j 01:20	9° ♄ 57'07	26°57'14
evening set	879 Aug 09 j 19:30	2° ♄ 22'34		retrograde	880 Jul 14 j 23:53	17° ♄ 12'31	
	879 Aug 12 j 17:40	30° ♄		evening set	880 Jul 21 j 22:46	15° ♄ 04'13	
min. Earth dist.	879 Aug 13 j 09:32	29° ♄ 23'23	0.62871 AU	min. Earth dist.	880 Jul 25 j 15:28	12° ♄ 23'50	0.60923 AU
inferior conj	879 Aug 16 j 05:13	26° ♄ 39'19	-3°49'53	inferior conj	880 Jul 28 j 20:47	9° ♄ 38'52	-4°29'52
minimum elong	879 Aug 16 j 10:15	26° ♄ 27'04	3°48'36	minimum elong	880 Jul 29 j 00:55	9° ♄ 30'00	4°29'15
morning rise	879 Aug 23 j 02:19	21° ♄ 29'47		morning rise	880 Aug 05 j 04:51	4° ♄ 50'19	
direct	879 Aug 25 j 14:07	21° ♄ 01'05		direct	880 Aug 07 j 15:33	4° ♄ 26'32	
asc. node	879 Aug 29 j 08:07	22° ♄ 07'32		morning max el	880 Aug 14 j 19:44	7° ♄ 59'18	18°02'54
morning max el	879 Sep 01 j 06:27	24° ♄ 26'49	17°52'27	asc. node	880 Aug 15 j 05:11	8° ♄ 22'44	
	879 Sep 05 j 18:44	0° ♄			880 Aug 29 j 00:56	0° ♄	
morning set	879 Sep 17 j 13:18	19° ♄ 45'47		morning set	880 Aug 30 j 16:36	3° ♄ 03'41	
	879 Sep 23 j 08:59	0° ♄					
superior conj	879 Sep 29 j 02:19	9° ♄ 47'06	0°53'54	superior conj	880 Sep 09 j 16:35	21° ♄ 19'02	1°22'59
minimum elong	879 Sep 29 j 06:56	10° ♄ 06'29	0°53'18	minimum elong	880 Sep 09 j 20:55	21° ♄ 38'11	1°22'32
max. Earth dist.	879 Oct 05 j 20:47	20° ♄ 56'10	1.43518 AU		880 Sep 14 j 16:31	0° ♄	
desc. node	879 Oct 07 j 09:17	23° ♄ 22'59		max. Earth dist.	880 Sep 17 j 06:57	4° ♄ 23'11	1.41870 AU
	879 Oct 11 j 13:26	0° ♄		evening rise	880 Sep 23 j 01:10	13° ♄ 47'37	
evening rise	879 Oct 14 j 06:56	4° ♄ 15'25		desc. node	880 Sep 23 j 06:18	14° ♄ 08'09	
	879 Oct 31 j 12:22	0° ♄			880 Oct 03 j 12:57	0° ♄	
evening max el	879 Nov 13 j 09:40	16° ♄ 30'03	21°13'04	evening max el	880 Oct 26 j 03:27	0° ♄ 00'33	22°29'35
retrograde	879 Nov 22 j 00:59	21° ♄ 38'00			880 Oct 26 j 03:14	0° ♄	
asc. node	879 Nov 25 j 07:24	20° ♄ 38'14		retrograde	880 Nov 04 j 20:33	5° ♄ 46'58	
evening set	879 Nov 26 j 03:18	20° ♄ 03'29		evening set	880 Nov 09 j 10:50	3° ♄ 55'32	
inferior conj	879 Dec 01 j 12:04	13° ♄ 49'49	2°00'22	asc. node	880 Nov 11 j 04:25	2° ♄ 15'01	
minimum elong	879 Dec 01 j 09:41	13° ♄ 58'00	1°59'32		880 Nov 13 j 00:45	30° ♄	
min. Earth dist.	879 Dec 01 j 20:18	13° ♄ 21'27	0.67502 AU	inferior conj	880 Nov 14 j 19:14	27° ♄ 35'29	1°13'10
				minimum elong	880 Nov 14 j 17:37	27° ♄ 41'04	1°12'31

min. Earth dist.	880 Nov 14 j 16:34	27° \mathbb{M} 44'43	0.67732 AU	direct	881 Nov 08 j 10:50	3° \mathbb{M} 46'46	
morning rise	880 Nov 20 j 00:16	21° \mathbb{M} 24'20		morning max el	881 Nov 16 j 16:00	8° \mathbb{M} 32'45	20°49'04
direct	880 Nov 24 j 14:23	19° \mathbb{M} 31'06			881 Dec 02 j 22:28	0° \mathbb{M}	
morning max el	880 Dec 03 j 21:56	25° \mathbb{M} 00'52	22°08'45	desc. node	881 Dec 07 j 02:32	6° \mathbb{M} 12'09	
	880 Dec 08 j 08:45	0° \mathbb{M}		morning set	881 Dec 16 j 03:11	20° \mathbb{M} 01'10	
desc. node	880 Dec 20 j 05:32	16° \mathbb{M} 01'25			881 Dec 22 j 10:44	0° \mathbb{M}	
	880 Dec 29 j 14:02	0° \mathbb{M}		max. Earth dist.	881 Dec 24 j 19:19	3° \mathbb{M} 48'14	1.42912 AU
morning set	881 Jan 05 j 23:10	11° \mathbb{M} 38'08		superior conj	881 Dec 31 j 14:26	15° \mathbb{M} 02'34	-2°00'24
max. Earth dist.	881 Jan 11 j 14:32	20° \mathbb{M} 55'10	1.41033 AU	minimum elong	881 Dec 31 j 11:24	14° \mathbb{M} 49'47	2°00'17
	881 Jan 16 j 21:50	0° \mathbb{M}			882 Jan 09 j 06:22	0° \mathbb{M}	
superior conj	881 Jan 19 j 09:17	4° \mathbb{M} 21'53	-2°02'15	evening rise	882 Jan 12 j 11:34	5° \mathbb{M} 42'03	
minimum elong	881 Jan 19 j 10:45	4° \mathbb{M} 28'26	2°02'12	asc. node	882 Jan 25 j 00:47	26° \mathbb{M} 54'16	
evening rise	881 Jan 29 j 17:44	23° \mathbb{M} 20'19			882 Jan 27 j 08:02	0° \mathbb{M}	
	881 Feb 02 j 07:55	0° \mathbb{M}		evening max el	882 Jan 29 j 11:58	2° \mathbb{M} 25'25	18°07'34
asc. node	881 Feb 07 j 03:46	8° \mathbb{M} 32'19		retrograde	882 Feb 05 j 01:41	5° \mathbb{M} 49'41	
evening max el	881 Feb 15 j 00:39	19° \mathbb{M} 20'35	18°15'58	evening set	882 Feb 07 j 19:37	5° \mathbb{M} 13'40	
retrograde	881 Feb 22 j 02:15	22° \mathbb{M} 52'10		inferior conj	882 Feb 14 j 06:36	0° \mathbb{M} 09'41	3°44'39
evening set	881 Feb 24 j 15:19	22° \mathbb{M} 25'43		minimum elong	882 Feb 14 j 07:32	0° \mathbb{M} 07'22	3°44'36
inferior conj	881 Mar 03 j 16:11	17° \mathbb{M} 42'55	3°21'23		882 Feb 14 j 10:28	30° \mathbb{R}	
minimum elong	881 Mar 03 j 19:14	17° \mathbb{M} 36'16	3°20'53	min. Earth dist.	882 Feb 17 j 06:48	27° \mathbb{M} 10'28	0.61746 AU
min. Earth dist.	881 Mar 07 j 01:51	14° \mathbb{M} 46'49	0.59636 AU	morning rise	882 Feb 20 j 18:06	24° \mathbb{M} 15'19	
morning rise	881 Mar 10 j 20:53	12° \mathbb{M} 04'16		direct	882 Feb 27 j 15:57	21° \mathbb{M} 48'35	
direct	881 Mar 17 j 07:56	10° \mathbb{M} 09'53		desc. node	882 Mar 05 j 01:45	23° \mathbb{M} 08'28	
desc. node	881 Mar 18 j 04:44	10° \mathbb{M} 11'54		morning max el	882 Mar 13 j 18:33	29° \mathbb{M} 41'06	27°47'21
morning max el	881 Mar 31 j 15:18	17° \mathbb{M} 56'01	27°19'08		882 Mar 14 j 02:07	0° \mathbb{M}	
	881 Apr 10 j 17:04	0° \mathbb{M}			882 Apr 04 j 15:53	0° \mathbb{M}	
	881 Apr 28 j 10:42	0° \mathbb{M}		morning set	882 Apr 15 j 21:47	21° \mathbb{M} 10'45	
morning set	881 May 01 j 17:33	6° \mathbb{M} 41'00			882 Apr 20 j 02:53	0° \mathbb{M}	
asc. node	881 May 06 j 03:03	16° \mathbb{M} 03'27		max. Earth dist.	882 Apr 21 j 18:34	3° \mathbb{M} 33'31	1.32506 AU
superior conj	881 May 08 j 20:40	22° \mathbb{M} 02'31	0°28'36	superior conj	882 Apr 23 j 07:02	6° \mathbb{M} 51'39	0°03'05
minimum elong	881 May 08 j 19:25	21° \mathbb{M} 55'40	0°28'20	minimum elong	882 Apr 23 j 06:54	6° \mathbb{M} 50'51	0°03'04
max. Earth dist.	881 May 08 j 08:04	20° \mathbb{M} 53'16	1.32269 AU	behind sun begin	882 Apr 23 j 01:52	6° \mathbb{M} 23'26	
	881 May 12 j 11:47	0° \mathbb{M}		behind sun end	882 Apr 23 j 11:56	7° \mathbb{M} 18'18	
evening rise	881 May 15 j 17:47	6° \mathbb{M} 58'46		asc. node	882 Apr 23 j 00:05	6° \mathbb{M} 13'47	
	881 May 27 j 19:36	0° \mathbb{M}		evening rise	882 Apr 30 j 05:17	21° \mathbb{M} 52'34	
evening max el	881 Jun 12 j 23:41	21° \mathbb{M} 31'25	25°58'17		882 May 04 j 03:51	0° \mathbb{M}	
desc. node	881 Jun 14 j 04:02	22° \mathbb{M} 36'43			882 May 23 j 07:36	0° \mathbb{M}	
retrograde	881 Jun 27 j 00:23	28° \mathbb{M} 42'32		evening max el	882 May 25 j 15:41	2° \mathbb{M} 24'01	24°34'27
evening set	881 Jul 03 j 04:39	27° \mathbb{M} 10'28		desc. node	882 Jun 01 j 01:02	7° \mathbb{M} 17'40	
min. Earth dist.	881 Jul 07 j 12:17	24° \mathbb{M} 32'06	0.58862 AU	retrograde	882 Jun 08 j 13:46	9° \mathbb{M} 26'25	
inferior conj	881 Jul 10 j 19:25	22° \mathbb{M} 05'37	-4°50'23	evening set	882 Jun 13 j 11:15	8° \mathbb{M} 32'30	
minimum elong	881 Jul 10 j 20:27	22° \mathbb{M} 03'42	4°50'22	min. Earth dist.	882 Jun 19 j 02:53	5° \mathbb{M} 39'02	0.56957 AU
morning rise	881 Jul 18 j 14:30	17° \mathbb{M} 39'33		inferior conj	882 Jun 21 j 22:18	3° \mathbb{M} 50'38	-4°38'54
direct	881 Jul 21 j 02:31	17° \mathbb{M} 18'44		minimum elong	882 Jun 21 j 18:23	3° \mathbb{M} 56'58	4°38'29
morning max el	881 Jul 29 j 03:20	21° \mathbb{M} 08'40	18°33'28		882 Jun 29 j 06:54	30° \mathbb{R}	
asc. node	881 Aug 02 j 02:14	25° \mathbb{M} 43'31		morning rise	882 Jun 30 j 04:15	29° \mathbb{M} 45'25	
	881 Aug 04 j 23:40	0° \mathbb{M}		direct	882 Jul 02 j 19:10	29° \mathbb{M} 26'26	
morning set	881 Aug 14 j 08:16	16° \mathbb{M} 58'00			882 Jul 06 j 04:11	0° \mathbb{M}	
	881 Aug 21 j 02:45	0° \mathbb{M}		morning max el	882 Jul 12 j 02:20	3° \mathbb{M} 45'56	19°25'09
superior conj	881 Aug 23 j 05:17	3° \mathbb{M} 57'43	1°39'50	asc. node	882 Jul 19 j 23:17	13° \mathbb{M} 55'36	
minimum elong	881 Aug 23 j 07:46	4° \mathbb{M} 09'19	1°39'41		882 Jul 28 j 16:47	0° \mathbb{M}	
max. Earth dist.	881 Aug 30 j 12:28	17° \mathbb{M} 09'12	1.39910 AU	morning set	882 Jul 29 j 08:36	1° \mathbb{M} 18'50	
evening rise	881 Sep 03 j 17:47	24° \mathbb{M} 22'35		superior conj	882 Aug 06 j 10:49	17° \mathbb{M} 27'45	1°46'18
	881 Sep 07 j 03:32	0° \mathbb{M}		minimum elong	882 Aug 06 j 11:18	17° \mathbb{M} 30'07	1°46'18
desc. node	881 Sep 10 j 03:19	4° \mathbb{M} 47'43		max. Earth dist.	882 Aug 12 j 16:11	29° \mathbb{M} 18'05	1.37884 AU
	881 Sep 27 j 08:38	0° \mathbb{M}			882 Aug 13 j 01:19	0° \mathbb{M}	
evening max el	881 Oct 08 j 17:15	13° \mathbb{M} 34'00	23°49'40	evening rise	882 Aug 16 j 10:47	6° \mathbb{M} 06'49	
retrograde	881 Oct 19 j 12:49	19° \mathbb{M} 56'04		desc. node	882 Aug 28 j 00:22	25° \mathbb{M} 17'40	
evening set	881 Oct 24 j 16:44	17° \mathbb{M} 47'00			882 Aug 31 j 02:15	0° \mathbb{M}	
asc. node	881 Oct 29 j 01:27	12° \mathbb{M} 48'09		evening max el	882 Sep 21 j 05:10	27° \mathbb{M} 11'13	25°06'37
min. Earth dist.	881 Oct 29 j 13:02	12° \mathbb{M} 09'03	0.67639 AU		882 Sep 24 j 07:47	0° \mathbb{M}	
inferior conj	881 Oct 30 j 02:10	11° \mathbb{M} 24'22	0°21'16	retrograde	882 Oct 03 j 00:58	4° \mathbb{M} 02'00	
minimum elong	881 Oct 30 j 01:40	11° \mathbb{M} 26'06	0°21'03	evening set	882 Oct 08 j 19:24	1° \mathbb{M} 36'19	
morning rise	881 Nov 04 j 10:32	5° \mathbb{M} 17'44			882 Oct 10 j 11:03	30° \mathbb{R}	

min. Earth dist.	882 Oct 13 j 07:22	26°♄33'02	0.67221 AU	inferior conj	883 Sep 28 j 08:27	9°♄04'06	-1°30'49
inferior conj	882 Oct 14 j 07:12	25°♄15'02	-0°33'52	minimum elong	883 Sep 28 j 10:48	8°♄56'49	1°29'51
minimum elong	882 Oct 14 j 08:03	25°♄12'15	0°33'31	asc. node	883 Oct 02 j 19:31	4°♄13'43	
asc. node	882 Oct 15 j 22:28	23°♄09'09		morning rise	883 Oct 04 j 05:06	3°♄14'21	
morning rise	882 Oct 19 j 20:50	19°♄15'28		direct	883 Oct 07 j 07:15	2°♄19'52	
direct	882 Oct 23 j 08:59	18°♄04'30		morning max el	883 Oct 14 j 02:55	6°♄07'26	18°49'29
morning max el	882 Oct 30 j 17:57	22°♄16'02	19°41'45		883 Oct 30 j 22:06	0°♄	
	882 Nov 06 j 02:54	0°♄		morning set	883 Nov 04 j 14:00	7°♄21'39	
greatest brilliancy	882 Nov 13 j 06:27	10°♄18'04	-0.7m	desc. node	883 Nov 10 j 20:40	17°♄15'27	
desc. node	882 Nov 23 j 23:35	26°♄38'27			883 Nov 18 j 23:19	0°♄	
morning set	882 Nov 24 j 24:00	28°♄12'44		max. Earth dist.	883 Nov 20 j 00:32	1°♄39'05	1.45004 AU
	882 Nov 26 j 03:43	0°♄					
max. Earth dist.	882 Dec 07 j 07:33	17°♄29'00	1.44292 AU	superior conj	883 Nov 20 j 22:17	3°♄04'35	-1°03'26
				minimum elong	883 Nov 20 j 14:38	2°♄34'32	1°02'32
superior conj	882 Dec 11 j 16:52	24°♄30'08	-1°40'59	evening rise	883 Dec 06 j 10:11	27°♄43'55	
minimum elong	882 Dec 11 j 09:07	23°♄58'55	1°40'20		883 Dec 07 j 19:55	0°♄	
	882 Dec 15 j 02:14	0°♄		evening max el	883 Dec 27 j 11:38	29°♄07'29	18°47'04
evening rise	882 Dec 25 j 10:14	17°♄11'38			883 Dec 28 j 09:09	0°♄	
	883 Jan 02 j 00:36	0°♄		asc. node	883 Dec 29 j 18:48	1°♄10'21	
asc. node	883 Jan 11 j 21:48	14°♄31'02		retrograde	884 Jan 03 j 05:17	2°♄54'23	
evening max el	883 Jan 13 j 00:27	15°♄42'39	18°18'13	evening set	884 Jan 06 j 09:35	1°♄56'36	
retrograde	883 Jan 19 j 12:04	19°♄12'48			884 Jan 08 j 19:52	30°♄	
evening set	883 Jan 22 j 10:47	18°♄26'25		inferior conj	884 Jan 12 j 03:01	26°♄15'34	3°29'32
inferior conj	883 Jan 28 j 11:29	13°♄02'49	3°45'17	minimum elong	884 Jan 12 j 00:52	26°♄22'10	3°29'12
minimum elong	883 Jan 28 j 10:32	13°♄05'28	3°45'14	min. Earth dist.	884 Jan 13 j 21:26	24°♄05'50	0.65236 AU
min. Earth dist.	883 Jan 30 j 21:16	10°♄21'27	0.63659 AU	morning rise	884 Jan 17 j 15:45	20°♄06'13	
morning rise	883 Feb 03 j 09:34	6°♄58'56		direct	884 Jan 24 j 07:43	17°♄14'04	
direct	883 Feb 10 j 08:14	4°♄12'13		morning max el	884 Feb 06 j 12:19	24°♄57'24	26°56'29
desc. node	883 Feb 19 j 22:46	8°♄21'39		desc. node	884 Feb 06 j 19:49	25°♄16'22	
morning max el	883 Feb 24 j 02:30	12°♄05'04	27°38'29		884 Feb 11 j 02:46	0°♄	
	883 Mar 10 j 09:10	0°♄			884 Mar 02 j 19:49	0°♄	
	883 Mar 28 j 02:25	0°♄		morning set	884 Mar 13 j 06:35	18°♄48'28	
morning set	883 Mar 30 j 19:11	5°♄16'29		max. Earth dist.	884 Mar 17 j 17:21	27°♄34'12	1.34223 AU
max. Earth dist.	883 Apr 04 j 22:58	15°♄50'39	1.33143 AU		884 Mar 18 j 22:04	0°♄	
superior conj	883 Apr 07 j 14:16	21°♄26'54	-0°23'55	superior conj	884 Mar 21 j 16:21	5°♄42'11	-0°51'15
minimum elong	883 Apr 07 j 15:26	21°♄33'09	0°23'40	minimum elong	884 Mar 21 j 18:52	5°♄55'19	0°50'46
asc. node	883 Apr 09 j 21:07	26°♄21'53		asc. node	884 Mar 26 j 18:10	16°♄23'46	
	883 Apr 11 j 13:36	0°♄		evening rise	884 Mar 29 j 03:04	21°♄22'18	
evening rise	883 Apr 14 j 16:59	6°♄42'27			884 Apr 02 j 09:10	0°♄	
	883 Apr 27 j 03:01	0°♄		evening max el	884 Apr 18 j 02:18	23°♄38'52	21°27'20
evening max el	883 May 07 j 06:01	12°♄55'47	22°59'13	retrograde	884 Apr 30 j 06:05	29°♄34'42	
desc. node	883 May 18 j 22:03	19°♄28'36		evening set	884 May 02 j 15:24	29°♄21'42	
retrograde	883 May 20 j 14:56	19°♄35'12		desc. node	884 May 04 j 19:03	28°♄49'10	
evening set	883 May 24 j 01:15	19°♄09'23		inferior conj	884 May 12 j 01:04	25°♄21'06	-2°03'30
min. Earth dist.	883 May 31 j 15:06	15°♄47'13	0.55549 AU	minimum elong	884 May 11 j 19:25	25°♄29'03	2°01'35
inferior conj	883 Jun 02 j 05:46	14°♄51'14	-3°43'05	min. Earth dist.	884 May 12 j 03:45	25°♄17'20	0.54954 AU
minimum elong	883 Jun 01 j 22:19	15°♄02'02	3°41'17	morning rise	884 May 21 j 00:01	21°♄22'34	
morning rise	883 Jun 10 j 21:56	10°♄58'01		direct	884 May 24 j 03:35	21°♄00'56	
direct	883 Jun 13 j 16:52	10°♄39'37		morning max el	884 Jun 05 j 15:50	26°♄56'23	22°08'06
morning max el	883 Jun 24 j 14:34	15°♄42'36	20°37'42		884 Jun 08 j 14:58	0°♄	
	883 Jul 05 j 06:35	0°♄		asc. node	884 Jun 22 j 17:26	22°♄06'18	
asc. node	883 Jul 06 j 20:20	2°♄46'19			884 Jun 26 j 15:18	0°♄	
morning set	883 Jul 13 j 14:44	15°♄57'30		morning set	884 Jun 27 j 00:32	0°♄48'02	
	883 Jul 20 j 09:54	0°♄					
				superior conj	884 Jul 04 j 06:02	16°♄05'32	1°35'52
superior conj	883 Jul 21 j 04:18	1°♄34'02	1°44'25	minimum elong	884 Jul 04 j 03:59	15°♄54'42	1°35'41
minimum elong	883 Jul 21 j 03:13	1°♄28'30	1°44'22	max. Earth dist.	884 Jul 07 j 14:43	23°♄05'00	1.34519 AU
max. Earth dist.	883 Jul 25 j 23:17	11°♄07'54	1.36033 AU		884 Jul 11 j 01:16	0°♄	
evening rise	883 Jul 30 j 00:36	18°♄51'01		evening rise	884 Jul 12 j 06:31	2°♄22'57	
	883 Aug 05 j 06:24	0°♄			884 Jul 28 j 04:04	0°♄	
desc. node	883 Aug 14 j 21:24	15°♄31'42		desc. node	884 Jul 31 j 18:25	5°♄22'38	
	883 Aug 25 j 05:17	0°♄		evening max el	884 Aug 16 j 04:55	24°♄20'27	27°01'34
evening max el	883 Sep 03 j 16:52	10°♄48'55	26°13'10		884 Aug 23 j 14:56	0°♄	
retrograde	883 Sep 16 j 08:26	17°♄58'34		retrograde	884 Aug 29 j 10:36	1°♄38'28	
evening set	883 Sep 22 j 16:56	15°♄19'54			884 Sep 03 j 18:09	30°♄	
min. Earth dist.	883 Sep 26 j 21:14	10°♄52'53	0.66458 AU	evening set	884 Sep 05 j 06:59	28°♄53'45	

min. Earth dist.	884 Sep 09 j 04:21	25° \cap 03'23	0.65341 AU		885 Jul 22 j 18:08	0° \cap	
inferior conj	884 Sep 11 j 03:52	22° \cap 47'36	-2°27'40	evening max el	885 Jul 29 j 16:16	7° \cap 35'06	27°24'41
minimum elong	884 Sep 11 j 07:40	22° \cap 36'43	2°26'15	retrograde	885 Aug 12 j 06:48	14° \cap 53'42	
morning rise	884 Sep 17 j 09:03	17° \cap 10'41		evening set	885 Aug 19 j 10:40	12° \cap 13'00	
asc. node	884 Sep 18 j 16:36	16° \cap 40'31		min. Earth dist.	885 Aug 23 j 02:33	8° \cap 56'54	0.63869 AU
direct	884 Sep 20 j 03:37	16° \cap 28'52		inferior conj	885 Aug 25 j 14:57	6° \cap 20'32	-3°21'39
morning max el	884 Sep 26 j 16:40	20° \cap 01'33	18°13'33	minimum elong	885 Aug 25 j 19:47	6° \cap 07'58	3°20'11
	884 Oct 04 j 06:19	0° $\underline{\cap}$		morning rise	885 Sep 01 j 05:56	0° \cap 59'45	
morning set	884 Oct 15 j 08:34	17° $\underline{\cap}$ 56'07		direct	885 Sep 03 j 19:31	0° \cap 27'03	
	884 Oct 22 j 18:12	0° \cap		asc. node	885 Sep 05 j 13:41	0° \cap 42'38	
desc. node	884 Oct 27 j 17:43	7° \cap 58'56		morning max el	885 Sep 10 j 08:33	3° \cap 53'01	17°54'55
				morning set	885 Sep 27 j 05:58	29° \cap 48'48	
					885 Sep 27 j 08:34	0° $\underline{\cap}$	
superior conj	884 Oct 30 j 00:43	11° \cap 37'16	-0°15'11				
minimum elong	884 Oct 29 j 22:45	11° \cap 29'30	0°14'55				
behind sun begin	884 Oct 29 j 18:21	11° \cap 12'03		superior conj	885 Oct 09 j 20:50	21° $\underline{\cap}$ 04'50	0°31'27
behind sun end	884 Oct 30 j 03:10	11° \cap 46'57		minimum elong	885 Oct 10 j 00:08	21° $\underline{\cap}$ 18'23	0°30'59
max. Earth dist.	884 Nov 01 j 19:13	15° \cap 59'44	1.44984 AU	desc. node	885 Oct 14 j 14:44	28° $\underline{\cap}$ 45'49	
	884 Nov 10 j 17:55	0° \sphericalcap			885 Oct 15 j 09:18	0° \cap	
evening rise	884 Nov 15 j 11:05	7° \sphericalcap 20'49		max. Earth dist.	885 Oct 15 j 13:01	0° \cap 14'52	1.44244 AU
greatest brilliancy	884 Nov 27 j 12:46	26° \sphericalcap 00'21	-0.7m	evening rise	885 Oct 25 j 20:38	16° \cap 24'01	
	884 Nov 30 j 04:45	0° \sphericalcap			885 Nov 03 j 19:08	0° \sphericalcap	
evening max el	884 Dec 09 j 19:19	12° \sphericalcap 35'40	19°32'43	evening max el	885 Nov 22 j 21:59	26° \sphericalcap 05'21	20°32'58
asc. node	884 Dec 15 j 15:51	16° \sphericalcap 37'06			885 Nov 27 j 19:39	0° \sphericalcap	
retrograde	884 Dec 17 j 02:00	16° \sphericalcap 48'21		retrograde	885 Nov 30 j 23:45	0° \sphericalcap 51'09	
evening set	884 Dec 20 j 13:25	15° \sphericalcap 37'39		asc. node	885 Dec 02 j 12:54	0° \sphericalcap 37'36	
inferior conj	884 Dec 26 j 02:00	9° \sphericalcap 41'41	3°01'44		885 Dec 03 j 23:24	30° \sphericalcap	
minimum elong	884 Dec 25 j 23:19	9° \sphericalcap 50'26	3°01'05	evening set	885 Dec 04 j 20:09	29° \sphericalcap 25'43	
min. Earth dist.	884 Dec 27 j 05:57	8° \sphericalcap 10'28	0.66427 AU	inferior conj	885 Dec 10 j 05:49	23° \sphericalcap 17'40	2°24'53
morning rise	884 Dec 31 j 08:58	3° \sphericalcap 29'26		minimum elong	885 Dec 10 j 03:12	22° \sphericalcap 26'36	2°24'02
direct	885 Jan 06 j 13:15	0° \sphericalcap 44'53		min. Earth dist.	885 Dec 10 j 20:48	23° \sphericalcap 26'44	0.67224 AU
morning max el	885 Jan 18 j 21:29	8° \sphericalcap 04'35	25°49'10	morning rise	885 Dec 15 j 10:04	17° \sphericalcap 04'28	
desc. node	885 Jan 23 j 16:53	13° \sphericalcap 22'53		direct	885 Dec 20 j 23:56	14° \sphericalcap 36'43	
	885 Feb 05 j 01:43	0° \approx		morning max el	886 Jan 01 j 05:49	21° \sphericalcap 19'00	24°26'25
	885 Feb 23 j 07:18	0° \sphericalcap			886 Jan 08 j 18:26	0° \sphericalcap	
morning set	885 Feb 24 j 03:36	1° \sphericalcap 32'51		desc. node	886 Jan 10 j 13:56	2° \sphericalcap 20'29	
max. Earth dist.	885 Feb 27 j 23:41	8° \sphericalcap 45'00	1.35767 AU		886 Jan 29 j 07:54	0° \approx	
				morning set	886 Feb 06 j 04:43	13° \approx 14'36	
superior conj	885 Mar 05 j 10:39	19° \sphericalcap 29'08	-1°17'27	max. Earth dist.	886 Feb 09 j 21:03	19° \approx 47'46	1.37705 AU
minimum elong	885 Mar 05 j 14:17	19° \sphericalcap 47'27	1°16'54		886 Feb 15 j 08:41	0° \sphericalcap	
	885 Mar 10 j 14:12	0° \cap					
evening rise	885 Mar 13 j 09:27	5° \cap 44'55		superior conj	886 Feb 16 j 17:55	2° \sphericalcap 39'25	-1°40'23
asc. node	885 Mar 13 j 15:13	6° \cap 14'18		minimum elong	886 Feb 16 j 21:58	2° \sphericalcap 58'57	1°39'57
	885 Mar 27 j 03:00	0° \sphericalcap		evening rise	886 Feb 25 j 09:49	19° \sphericalcap 44'19	
evening max el	885 Mar 31 j 09:18	4° \sphericalcap 54'20	20°09'02	asc. node	886 Feb 28 j 12:14	25° \sphericalcap 48'56	
retrograde	885 Apr 10 j 20:14	9° \sphericalcap 56'26			886 Mar 02 j 17:15	0° \cap	
evening set	885 Apr 12 j 21:54	9° \sphericalcap 45'28		evening max el	886 Mar 14 j 03:32	16° \cap 48'37	19°09'14
inferior conj	885 Apr 21 j 21:37	5° \sphericalcap 46'47	-0°04'00	retrograde	886 Mar 22 j 22:51	21° \cap 03'42	
minimum elong	885 Apr 21 j 21:26	5° \sphericalcap 47'03	0°03'55	evening set	886 Mar 25 j 03:20	20° \cap 49'06	
transit middle	885 Apr 21 j 21:26	5° \sphericalcap 47'03	0°03'55	inferior conj	886 Apr 02 j 08:44	16° \cap 37'30	1°41'46
transit begin	885 Apr 21 j 17:33	5° \sphericalcap 52'51		minimum elong	886 Apr 02 j 12:24	16° \cap 31'14	1°40'37
transit end	885 Apr 22 j 01:19	5° \sphericalcap 41'15		min. Earth dist.	886 Apr 05 j 08:27	14° \cap 36'08	0.56574 AU
desc. node	885 Apr 21 j 16:05	5° \sphericalcap 55'02		desc. node	886 Apr 08 j 13:07	12° \cap 42'16	
min. Earth dist.	885 Apr 23 j 17:22	4° \sphericalcap 41'42	0.55323 AU	morning rise	886 Apr 10 j 18:32	11° \cap 42'08	
morning rise	885 Apr 30 j 19:09	1° \sphericalcap 24'41		direct	886 Apr 15 j 17:42	10° \cap 44'47	
direct	885 May 04 j 16:53	0° \sphericalcap 51'21		morning max el	886 Apr 29 j 23:12	18° \cap 02'56	25°27'03
morning max el	885 May 18 j 08:47	7° \sphericalcap 35'11	23°48'54		886 May 09 j 20:59	0° \sphericalcap	
	885 Jun 03 j 12:16	0° \cap		morning set	886 May 26 j 23:57	0° \cap 41'29	
asc. node	885 Jun 09 j 14:31	11° \cap 47'14			886 May 26 j 16:04	0° \cap	
morning set	885 Jun 11 j 12:10	15° \cap 44'30		asc. node	886 May 27 j 11:33	1° \cap 42'49	
	885 Jun 18 j 03:22	0° \sphericalcap					
superior conj	885 Jun 18 j 13:12	0° \sphericalcap 53'00	1°22'01	superior conj	886 Jun 02 j 23:33	15° \cap 48'58	1°03'53
minimum elong	885 Jun 18 j 10:45	0° \sphericalcap 39'49	1°21'42	minimum elong	886 Jun 02 j 21:14	15° \cap 36'20	1°03'29
max. Earth dist.	885 Jun 20 j 15:40	5° \sphericalcap 23'32	1.33391 AU	max. Earth dist.	886 Jun 03 j 23:59	18° \cap 02'25	1.32655 AU
evening rise	885 Jun 26 j 00:09	16° \sphericalcap 29'42			886 Jun 09 j 14:19	0° \sphericalcap	
	885 Jul 03 j 01:48	0° \cap		evening rise	886 Jun 10 j 01:59	1° \sphericalcap 00'20	
desc. node	885 Jul 18 j 15:26	24° \cap 40'47			886 Jun 26 j 01:26	0° \cap	
				desc. node	886 Jul 05 j 12:27	13° \cap 11'58	

evening max el	886 Jul 12 j 00:19	20°♎18'16	27°16'52		887 Jun 21 j 19:27	0°♎	
retrograde	886 Jul 25 j 20:09	27°♎34'31		desc. node	887 Jun 22 j 09:27	0°♎36'44	
evening set	886 Aug 02 j 00:07	25°♎10'23		evening max el	887 Jun 24 j 02:26	2°♎18'38	26°35'50
min. Earth dist.	886 Aug 05 j 14:17	22°♎21'03	0.62070 AU	retrograde	887 Jul 08 j 01:57	9°♎32'38	
inferior conj	886 Aug 08 j 14:36	19°♎34'48	-4°08'35	evening set	887 Jul 14 j 18:48	7°♎38'21	
minimum elong	886 Aug 08 j 19:30	19°♎23'31	4°07'32	min. Earth dist.	887 Jul 18 j 15:48	5°♎01'27	0.60045 AU
morning rise	886 Aug 15 j 16:18	14°♎33'43		inferior conj	887 Jul 21 j 23:22	2°♎21'38	-4°41'39
direct	886 Aug 18 j 03:28	14°♎07'15		minimum elong	887 Jul 22 j 02:29	2°♎15'20	4°41'20
asc. node	886 Aug 23 j 10:46	16°♎13'18			887 Jul 25 j 01:34	30°♎☾	
morning max el	886 Aug 24 j 23:39	17°♎34'36	17°54'32	morning rise	887 Jul 29 j 12:10	27°♎42'56	
	886 Sep 02 j 20:25	0°♎		direct	887 Jul 31 j 23:16	27°♎20'34	
morning set	886 Sep 10 j 00:03	12°♎40'34			887 Aug 07 j 08:36	0°♎	
	886 Sep 19 j 17:53	0°♎		morning max el	887 Aug 08 j 10:56	0°♎58'51	18°13'29
				asc. node	887 Aug 10 j 07:48	2°♎58'31	
superior conj	886 Sep 20 j 19:57	1°♎52'21	1°07'47	morning set	887 Aug 24 j 09:08	26°♎15'39	
minimum elong	886 Sep 21 j 00:45	2°♎12'59	1°07'14		887 Aug 26 j 08:36	0°♎	
max. Earth dist.	886 Sep 28 j 03:01	14°♎05'54	1.42877 AU				
desc. node	886 Oct 01 j 11:45	19°♎32'35		superior conj	887 Sep 02 j 20:31	13°♎55'25	1°31'30
evening rise	886 Oct 05 j 06:47	25°♎33'06		minimum elong	887 Sep 03 j 00:09	14°♎11'52	1°31'13
	886 Oct 08 j 03:26	0°♎		max. Earth dist.	887 Sep 10 j 11:07	27°♎16'33	1.41060 AU
	886 Oct 28 j 18:46	0°♎			887 Sep 12 j 01:53	0°♎	
evening max el	886 Nov 05 j 18:49	9°♎35'00	21°44'42	evening rise	887 Sep 15 j 09:43	5°♎29'48	
retrograde	886 Nov 14 j 20:34	14°♎58'52		desc. node	887 Sep 18 j 08:47	10°♎16'01	
evening set	886 Nov 19 j 03:52	13°♎17'05			887 Oct 01 j 09:04	0°♎	
asc. node	886 Nov 19 j 09:58	13°♎04'34		evening max el	887 Oct 19 j 10:31	23°♎06'11	23°03'24
inferior conj	886 Nov 24 j 12:18	7°♎00'14	1°40'59	retrograde	887 Oct 29 j 14:58	29°♎08'47	
minimum elong	886 Nov 24 j 10:12	7°♎07'29	1°40'11	evening set	887 Nov 03 j 10:55	27°♎09'38	
min. Earth dist.	886 Nov 24 j 15:43	6°♎48'24	0.67651 AU	asc. node	887 Nov 06 j 07:00	24°♎09'51	
morning rise	886 Nov 29 j 16:24	0°♎47'52		inferior conj	887 Nov 08 j 19:35	20°♎47'44	0°51'38
	886 Nov 30 j 17:09	30°♎♎		minimum elong	887 Nov 08 j 18:24	20°♎51'48	0°51'08
direct	886 Dec 04 j 15:00	28°♎41'47		min. Earth dist.	887 Nov 08 j 12:22	21°♎12'37	0.67737 AU
	886 Dec 08 j 22:18	0°♎		morning rise	887 Nov 14 j 01:48	14°♎38'14	
morning max el	886 Dec 14 j 15:25	4°♎38'22	22°58'17	direct	887 Nov 18 j 09:45	12°♎54'55	
desc. node	886 Dec 28 j 10:58	21°♎54'04		morning max el	887 Nov 27 j 05:39	18°♎05'22	21°33'31
	887 Jan 03 j 01:42	0°♎			887 Dec 06 j 23:35	0°♎	
morning set	887 Jan 18 j 03:40	23°♎37'44		desc. node	887 Dec 15 j 08:00	11°♎53'36	
	887 Jan 21 j 22:25	0°♎			887 Dec 27 j 05:27	0°♎	
max. Earth dist.	887 Jan 22 j 16:32	1°♎17'44	1.39832 AU	morning set	887 Dec 28 j 21:30	2°♎38'03	
				max. Earth dist.	888 Jan 04 j 16:38	13°♎37'56	1.41879 AU
superior conj	887 Jan 30 j 09:51	15°♎01'35	-1°57'03				
minimum elong	887 Jan 30 j 12:53	15°♎15'30	1°56'53	superior conj	888 Jan 12 j 05:11	26°♎22'38	-2°03'21
	887 Feb 07 j 08:56	0°♎		minimum elong	888 Jan 12 j 04:59	26°♎21'48	2°03'21
evening rise	887 Feb 09 j 01:16	3°♎12'49			888 Jan 14 j 06:53	0°♎	
asc. node	887 Feb 15 j 09:16	15°♎01'50		evening rise	888 Jan 23 j 04:12	16°♎01'36	
evening max el	887 Feb 25 j 06:49	29°♎17'25	18°29'36		888 Jan 30 j 23:31	0°♎	
	887 Feb 26 j 01:15	0°♎		asc. node	888 Feb 02 j 06:18	3°♎45'11	
retrograde	887 Mar 04 j 20:28	3°♎00'32		evening max el	888 Feb 08 j 16:06	12°♎11'42	18°10'00
evening set	887 Mar 07 j 06:18	2°♎39'06		retrograde	888 Feb 15 j 11:33	15°♎38'46	
	887 Mar 12 j 06:22	30°♎♎		evening set	888 Feb 18 j 02:35	15°♎08'31	
inferior conj	887 Mar 14 j 16:46	28°♎08'05	2°54'53	inferior conj	888 Feb 24 j 21:06	10°♎16'43	3°34'29
minimum elong	887 Mar 14 j 20:44	28°♎00'11	2°54'00	minimum elong	888 Feb 24 j 23:17	10°♎11'40	3°34'14
min. Earth dist.	887 Mar 18 j 03:02	25°♎25'22	0.58426 AU	min. Earth dist.	888 Feb 28 j 03:46	7°♎16'02	0.60538 AU
morning rise	887 Mar 22 j 08:23	22°♎42'16		morning rise	888 Mar 02 j 18:02	4°♎30'03	
desc. node	887 Mar 26 j 10:08	21°♎19'24		direct	888 Mar 09 j 10:48	2°♎20'38	
direct	887 Mar 28 j 08:13	21°♎09'51		desc. node	888 Mar 12 j 07:10	2°♎42'43	
morning max el	887 Apr 11 j 17:04	28°♎49'01	26°46'53	morning max el	888 Mar 23 j 16:58	10°♎11'12	27°35'45
	887 Apr 12 j 21:21	0°♎			888 Apr 08 j 01:35	0°♎	
	887 May 03 j 12:53	0°♎		morning set	888 Apr 24 j 17:18	0°♎13'34	
morning set	887 May 11 j 10:16	15°♎33'37			888 Apr 24 j 14:40	0°♎	
asc. node	887 May 14 j 08:34	21°♎48'06		asc. node	888 Apr 30 j 05:35	11°♎57'48	
				max. Earth dist.	888 May 01 j 00:09	13°♎39'04	1.32315 AU
superior conj	887 May 18 j 11:16	0°♎47'37	0°42'18				
minimum elong	887 May 18 j 09:31	0°♎38'02	0°41'58	superior conj	888 May 01 j 22:35	15°♎41'54	0°18'01
	887 May 18 j 02:36	0°♎		minimum elong	888 May 01 j 21:47	15°♎37'27	0°17'50
max. Earth dist.	887 May 18 j 12:05	0°♎52'10	1.32298 AU	evening rise	888 May 08 j 19:47	0°♎38'54	
evening rise	887 May 25 j 09:17	15°♎46'15			888 May 08 j 12:27	0°♎	
	887 Jun 01 j 13:04	0°♎			888 May 24 j 21:44	0°♎	

evening max el	888 Jun 04 j 21:33	13°  32'48	25°24'58		889 Apr 16 j 03:02	0° 	
desc. node	888 Jun 08 j 06:28	16°  27'02		asc. node	889 Apr 17 j 02:38	2°  07'53	
retrograde	888 Jun 18 j 22:20	20°  42'14		evening rise	889 Apr 23 j 07:35	15°  31'50	
evening set	888 Jun 24 j 14:39	19°  26'45			889 Apr 30 j 13:13	0° 	
min. Earth dist.	888 Jun 29 j 09:32	16°  43'47	0.58007 AU	evening max el	889 May 17 j 12:07	24°  11'21	23°54'26
inferior conj	888 Jul 02 j 13:45	14°  30'59	-4°50'18		889 May 25 j 19:14	0° 	
minimum elong	888 Jul 02 j 12:47	14°  32'40	4°50'17	desc. node	889 May 26 j 03:28	0°  08'13	
morning rise	888 Jul 10 j 13:31	10°  14'35		retrograde	889 May 31 j 06:39	1°  08'05	
direct	888 Jul 13 j 02:27	9°  54'49		evening set	889 Jun 04 j 12:34	0°  28'15	
morning max el	888 Jul 21 j 15:15	13°  55'50	18°52'56		889 Jun 05 j 20:58	30°  R 	
asc. node	888 Jul 27 j 04:49	20°  42'31		min. Earth dist.	889 Jun 10 j 23:01	27°  11'23'47	0.56276 AU
	888 Aug 01 j 18:35	0° 		inferior conj	889 Jun 13 j 07:59	25°  11'56'38	-4°21'05
morning set	888 Aug 07 j 04:50	10°  21'46		minimum elong	889 Jun 13 j 02:07	26°  11'05'40	4°20'07
				morning rise	889 Jun 21 j 18:23	21°  11'57'41	
superior conj	888 Aug 15 j 17:01	26°  21'57'41	1°43'43	direct	889 Jun 24 j 10:41	21°  11'39'12	
minimum elong	888 Aug 15 j 18:38	27°  21'05'21	1°43'39	morning max el	889 Jul 04 j 09:47	26°  11'16'13	19°53'32
	888 Aug 17 j 07:32	0° 			889 Jul 07 j 20:28	0° 	
max. Earth dist.	888 Aug 22 j 14:42	9°  17'42'42	1.39034 AU	asc. node	889 Jul 14 j 01:52	9°  05'12'11	
evening rise	888 Aug 26 j 12:50	16°  17'34'24		morning set	889 Jul 22 j 07:53	24°  05'50'30	
	888 Sep 03 j 16:36	0° 			889 Jul 24 j 20:47	0° 	
desc. node	888 Sep 04 j 05:49	0°  52'05					
	888 Sep 24 j 22:23	0° 		superior conj	889 Jul 30 j 04:04	10°  21'43'57	1°46'25
evening max el	888 Sep 30 j 23:10	6°  11'41'18	24°23'13	minimum elong	889 Jul 30 j 03:49	10°  21'42'41	1°46'24
retrograde	888 Oct 12 j 05:48	13°  11'17'26		max. Earth dist.	889 Aug 04 j 18:56	21°  21'03'39'12	1.37063 AU
evening set	888 Oct 17 j 15:43	11°  11'01'08		evening rise	889 Aug 08 j 15:13	28°  21'45'23	
min. Earth dist.	888 Oct 22 j 08:20	5°  11'37'29	0.67496 AU		889 Aug 09 j 07:49	0° 	
inferior conj	888 Oct 23 j 01:58	4°  11'38'20	-0°01'47	desc. node	889 Aug 22 j 02:51	21°  11'15'49	
minimum elong	888 Oct 23 j 02:00	4°  11'38'11	0°01'46		889 Aug 28 j 00:07	0° 	
transit middle	888 Oct 23 j 02:00	4°  11'38'11	0°01'46	evening max el	889 Sep 13 j 10:58	20°  21'19'43	25°36'51
transit begin	888 Oct 22 j 23:17	4°  11'47'20		retrograde	889 Sep 25 j 15:59	27°  21'19'43	
transit end	888 Oct 23 j 04:43	4°  11'29'03		evening set	889 Oct 01 j 16:26	24°  21'48'14	
asc. node	888 Oct 23 j 04:02	4°  11'31'23		min. Earth dist.	889 Oct 06 j 01:10	19°  21'59'59	0.66931 AU
	888 Oct 26 j 20:58	30°  R 		inferior conj	889 Oct 07 j 05:38	18°  21'28'50	-0°57'55
morning rise	888 Oct 28 j 12:20	28°  21'34'10		minimum elong	889 Oct 07 j 07:07	18°  21'24'05	0°57'17
direct	888 Nov 01 j 07:09	27°  21'12'08		asc. node	889 Oct 10 j 01:05	15°  21'04'28	
	888 Nov 07 j 06:59	0° 		morning rise	889 Oct 12 j 22:00	12°  21'32'49	
morning max el	888 Nov 09 j 03:04	1°  11'42'43	20°18'42	direct	889 Oct 16 j 05:41	11°  21'29'10	
	888 Nov 29 j 18:16	0° 		morning max el	889 Oct 23 j 08:05	15°  21'29'23	19°17'36
desc. node	888 Dec 01 j 05:03	2°  11'12'04			889 Nov 03 j 07:50	0° 	
morning set	888 Dec 06 j 19:26	10°  11'47'49		morning set	889 Nov 15 j 21:05	19°  11'17'06	
max. Earth dist.	888 Dec 17 j 00:19	26°  11'51'59	1.43570 AU	desc. node	889 Nov 18 j 02:06	22°  11'43'28	
	888 Dec 18 j 22:58	0° 			889 Nov 22 j 17:59	0° 	
				max. Earth dist.	889 Nov 29 j 14:56	10°  11'47'43	1.44685 AU
superior conj	888 Dec 22 j 23:09	6°  11'33'02	-1°54'29				
minimum elong	888 Dec 22 j 17:53	6°  11'11'18	1°54'12	superior conj	889 Dec 02 j 15:18	15°  11'34'22	-1°27'04
evening rise	889 Jan 04 j 14:29	28°  11'02'45		minimum elong	889 Dec 02 j 06:45	15°  11'30'02'3	1°26'12
	889 Jan 05 j 17:25	0° 			889 Dec 11 j 14:24	0° 	
asc. node	889 Jan 19 j 03:20	21°  11'50'08		evening rise	889 Dec 17 j 03:49	9°  11'08'25	
evening max el	889 Jan 22 j 04:20	25°  11'23'38	18°09'50		889 Dec 29 j 23:43	0° 	
retrograde	889 Jan 28 j 16:05	28°  11'48'46		evening max el	890 Jan 05 j 16:40	8°  11'45'25	18°28'20
evening set	889 Jan 31 j 11:59	28°  11'08'33		asc. node	890 Jan 06 j 00:23	9°  11'04'41	
inferior conj	889 Feb 06 j 18:14	22°  11'56'20	3°47'13	retrograde	890 Jan 12 j 05:44	12°  11'21'02	
minimum elong	889 Feb 06 j 18:18	22°  11'56'10	3°47'13	evening set	890 Jan 15 j 06:48	11°  11'29'49	
min. Earth dist.	889 Feb 09 j 12:47	20°  11'02'14	0.62598 AU	inferior conj	890 Jan 21 j 04:05	5°  11'58'35	3°40'15
morning rise	889 Feb 12 j 23:32	16°  11'57'20		minimum elong	890 Jan 21 j 02:32	6°  11'03'06	3°40'06
direct	889 Feb 19 j 22:59	14°  11'19'58		min. Earth dist.	890 Jan 23 j 07:18	3°  11'29'37	0.64386 AU
desc. node	889 Feb 27 j 04:12	16°  11'42'16		morning rise	890 Jan 26 j 21:46	29°  11'52'19	
morning max el	889 Mar 05 j 22:27	22°  11'14'01	27°47'50		890 Jan 26 j 18:07	30°  R 	
	889 Mar 12 j 18:46	0° 		direct	890 Feb 02 j 18:31	27°  11'01'31	
	889 Apr 01 j 04:43	0° 			890 Feb 10 j 15:33	0° 	
morning set	889 Apr 08 j 18:56	14°  11'34'17		desc. node	890 Feb 14 j 01:15	2°  11'42'46	
max. Earth dist.	889 Apr 14 j 08:19	26°  11'10'03	1.32725 AU	morning max el	890 Feb 16 j 07:18	4°  11'50'53	27°24'08
					890 Mar 07 j 09:33	0° 	
superior conj	889 Apr 16 j 07:52	0°  11'26'13	-0°08'16	morning set	890 Mar 23 j 12:30	28°  11'36'49	
minimum elong	889 Apr 16 j 08:16	0°  11'28'22	0°08'11		890 Mar 24 j 07:25	0° 	
behind sun begin	889 Apr 16 j 03:47	0°  11'04'06		max. Earth dist.	890 Mar 28 j 08:47	8°  11'13'22	1.33554 AU
behind sun end	889 Apr 16 j 12:45	0°  11'52'38					

superior conj	890 Mar 31 j 13:12	14° Υ 54'02	-0°35'33	superior conj	891 Mar 15 j 12:20	28° Υ 58'23	-1°02'37
minimum elong	890 Mar 31 j 14:57	15° Υ 03'17	0°35'11	minimum elong	891 Mar 15 j 15:23	29° Υ 14'03	1°02'04
asc. node	890 Apr 03 j 23:42	22° Υ 14'05			891 Mar 16 j 00:18	0° Υ	
evening rise	890 Apr 07 j 18:51	0° Σ 18'27		asc. node	891 Mar 21 j 20:45	12° Υ 11'57	
	890 Apr 07 j 15:20	0° Σ		evening rise	891 Mar 23 j 03:39	14° Υ 52'16	
	890 Apr 24 j 21:08	0° Π			891 Mar 30 j 22:10	0° Σ	
evening max el	890 Apr 29 j 04:16	4° Π 46'50	22°18'55	evening max el	891 Apr 11 j 04:40	15° Σ 41'34	20°51'48
retrograde	890 May 12 j 02:21	11° Π 09'11		retrograde	891 Apr 22 j 15:37	21° Σ 15'06	
desc. node	890 May 13 j 00:28	11° Π 07'16		evening set	891 Apr 24 j 19:56	21° Σ 03'47	
evening set	890 May 15 j 00:14	10° Π 50'29		desc. node	891 Apr 29 j 21:30	19° Σ 21'40	
min. Earth dist.	890 May 23 j 11:05	7° Π 12'34	0.55188 AU	inferior conj	891 May 04 j 02:54	17° Σ 05'46	-1°13'06
inferior conj	890 May 24 j 08:57	6° Π 41'43	-3°05'16	minimum elong	891 May 03 j 23:26	17° Σ 10'41	1°11'51
minimum elong	890 May 24 j 01:32	6° Π 52'11	3°03'07	min. Earth dist.	891 May 04 j 23:45	16° Σ 36'06	0.54993 AU
morning rise	890 Jun 02 j 04:40	2° Π 48'40		morning rise	891 May 13 j 02:35	12° Σ 59'38	
direct	890 Jun 05 j 02:43	2° Π 29'23		direct	891 May 16 j 12:34	12° Σ 34'29	
morning max el	890 Jun 16 j 17:05	7° Π 54'02	21°14'19	morning max el	891 May 29 j 14:17	18° Σ 51'06	22°50'31
asc. node	890 Jun 30 j 22:56	28° Π 16'45			891 Jun 07 j 17:40	0° Π	
	890 Jul 01 j 20:45	0° Σ		asc. node	891 Jun 17 j 20:01	17° Π 46'39	
morning set	890 Jul 06 j 15:51	9° Σ 35'27		morning set	891 Jun 21 j 02:39	24° Π 29'36	
					891 Jun 23 j 17:03	0° Σ	
superior conj	890 Jul 14 j 01:28	25° Σ 02'19	1°41'31	superior conj	891 Jun 28 j 05:49	9° Σ 41'50	1°30'34
minimum elong	890 Jul 13 j 23:53	24° Σ 54'11	1°41'25	minimum elong	891 Jun 28 j 03:31	9° Σ 29'39	1°30'20
	890 Jul 16 j 11:32	0° Ω		max. Earth dist.	891 Jul 01 j 01:20	15° Σ 37'55	1.33987 AU
max. Earth dist.	890 Jul 18 j 05:36	3° Ω 31'31	1.35344 AU	evening rise	891 Jul 05 j 23:51	25° Σ 39'54	
evening rise	890 Jul 22 j 12:30	11° Ω 51'51			891 Jul 08 j 05:25	0° Ω	
	890 Aug 01 j 18:13	0° Π			891 Jul 26 j 04:02	0° Π	
desc. node	890 Aug 08 j 23:52	11° Π 21'23		desc. node	891 Jul 26 j 20:52	0° Π 59'57	
	890 Aug 23 j 04:10	0° Σ		evening max el	891 Aug 09 j 10:53	17° Π 22'07	27°14'49
evening max el	890 Aug 26 j 23:04	3° Σ 56'50	26°36'31	retrograde	891 Aug 22 j 20:35	24° Π 41'02	
retrograde	890 Sep 08 j 21:03	11° Σ 10'22		evening set	891 Aug 29 j 21:04	21° Π 56'17	
evening set	890 Sep 15 j 11:04	8° Σ 28'15		min. Earth dist.	891 Sep 02 j 15:45	18° Π 21'24	0.64761 AU
min. Earth dist.	890 Sep 19 j 12:24	4° Σ 16'57	0.66028 AU	inferior conj	891 Sep 04 j 20:49	15° Π 55'43	-2°51'06
inferior conj	890 Sep 21 j 04:41	2° Σ 16'20	-1°55'04	minimum elong	891 Sep 05 j 01:09	15° Π 43'50	2°49'37
minimum elong	890 Sep 21 j 07:40	2° Σ 07'23	1°53'53	morning rise	891 Sep 11 j 06:04	10° Π 25'32	
	890 Sep 23 j 03:35	30° Σ 17'00		direct	891 Sep 13 j 22:14	9° Π 48'00	
asc. node	890 Sep 26 j 22:08	26° Π 41'07		asc. node	891 Sep 13 j 19:12	9° Π 48'05	
morning rise	890 Sep 27 j 04:46	26° Π 31'39		morning max el	891 Sep 20 j 10:24	13° Π 16'34	18°03'32
direct	890 Sep 30 j 03:31	25° Π 42'51			891 Oct 02 j 03:02	0° Σ	
morning max el	890 Oct 06 j 19:22	29° Π 22'40	18°32'12	morning set	891 Oct 08 j 05:23	10° Σ 11'36	
	890 Oct 07 j 09:44	0° Σ			891 Oct 20 j 06:04	0° Π	
morning set	890 Oct 26 j 22:52	29° Σ 02'18					
	890 Oct 27 j 13:16	0° Π		superior conj	891 Oct 22 j 00:28	2° Π 50'15	0°05'30
desc. node	890 Nov 04 j 23:10	13° Π 23'52		minimum elong	891 Oct 22 j 01:08	2° Π 52'55	0°05'23
				behind sun begin	891 Oct 21 j 15:03	2° Π 12'32	
superior conj	890 Nov 11 j 16:37	24° Π 00'04	-0°43'34	behind sun end	891 Oct 22 j 11:12	3° Π 33'14	
minimum elong	890 Nov 11 j 11:00	23° Π 37'58	0°42'50	desc. node	891 Oct 22 j 20:12	4° Π 09'11	
max. Earth dist.	890 Nov 12 j 09:38	25° Π 06'53	1.45091 AU	max. Earth dist.	891 Oct 26 j 04:24	9° Π 27'41	1.44750 AU
	890 Nov 15 j 12:16	0° Σ		evening rise	891 Nov 07 j 10:31	28° Π 35'01	
evening rise	890 Nov 27 j 17:41	19° Σ 16'28			891 Nov 08 j 08:32	0° Σ	
	890 Dec 04 j 12:05	0° Σ		greatest brilliancy	891 Nov 21 j 04:28	19° Σ 32'22	-0.6m
greatest brilliancy	890 Dec 06 j 20:33	3° Σ 42'17	-0.8m		891 Nov 28 j 13:40	0° Σ	
evening max el	890 Dec 20 j 02:38	22° Σ 12'16	19°04'28	evening max el	891 Dec 03 j 08:13	5° Σ 40'50	19°56'41
asc. node	890 Dec 23 j 21:25	25° Σ 15'19		retrograde	891 Dec 10 j 22:25	10° Σ 07'16	
retrograde	890 Dec 27 j 00:51	26° Σ 08'54		asc. node	891 Dec 10 j 18:27	10° Σ 07'07	
evening set	890 Dec 30 j 08:04	25° Σ 05'38		evening set	891 Dec 14 j 13:23	8° Σ 50'29	
inferior conj	891 Jan 04 j 23:09	19° Σ 17'41	3°18'59	inferior conj	891 Dec 20 j 00:29	2° Σ 48'44	2°47'08
minimum elong	891 Jan 04 j 20:42	19° Σ 25'26	3°18'31	minimum elong	891 Dec 19 j 21:45	2° Σ 57'49	2°46'21
min. Earth dist.	891 Jan 06 j 11:07	17° Σ 24'12	0.65796 AU	min. Earth dist.	891 Dec 20 j 22:40	1° Σ 34'47	0.66805 AU
morning rise	891 Jan 10 j 09:03	13° Σ 06'56			891 Dec 22 j 03:49	30° Σ 17'00	
direct	891 Jan 16 j 20:27	10° Σ 17'00		morning rise	891 Dec 25 j 05:56	26° Σ 35'42	
morning max el	891 Jan 29 j 17:08	17° Σ 51'18	26°30'24	direct	891 Dec 31 j 04:08	23° Σ 57'38	
desc. node	891 Jan 31 j 22:19	20° Σ 11'10			892 Jan 11 j 00:17	0° Σ	
	891 Feb 08 j 22:30	0° Σ		morning max el	892 Jan 12 j 02:07	1° Σ 03'28	25°15'23
	891 Feb 28 j 08:08	0° Σ		desc. node	892 Jan 18 j 19:24	8° Σ 41'55	
morning set	891 Mar 06 j 18:24	11° Σ 40'22			892 Feb 02 j 22:36	0° Σ	
max. Earth dist.	891 Mar 10 j 22:27	19° Σ 43'32	1.34834 AU	morning set	892 Feb 17 j 07:50	24° Σ 01'18	

	892 Feb 20 j 14:10	0°♄			893 Jan 25 j 20:38	0°♄	
max. Earth dist.	892 Feb 21 j 00:37	0°♄48'45	1.36548 AU	morning set	893 Jan 28 j 22:32	5°♄11'31	
				max. Earth dist.	893 Feb 01 j 19:41	11°♄56'44	1.38592 AU
superior conj	892 Feb 27 j 02:27	12°♄31'32	-1°27'44				
minimum elong	892 Feb 27 j 06:23	12°♄51'01	1°27'12	superior conj	893 Feb 09 j 03:45	25°♄22'41	-1°48'27
evening rise	892 Mar 06 j 07:52	29°♄06'46		minimum elong	893 Feb 09 j 07:35	25°♄40'51	1°48'07
	892 Mar 06 j 18:26	0°♄			893 Feb 11 j 13:56	0°♄	
asc. node	892 Mar 07 j 17:47	1°♄57'00		evening rise	893 Feb 18 j 04:48	12°♄53'44	
evening max el	892 Mar 23 j 16:35	27°♄14'16	19°41'09	asc. node	893 Feb 22 j 14:48	21°♄23'13	
	892 Mar 27 j 04:06	0°♄			893 Feb 27 j 12:01	0°♄	
retrograde	892 Apr 02 j 10:14	1°♄55'21		evening max el	893 Mar 06 j 15:05	9°♄24'38	18°49'59
evening set	892 Apr 04 j 12:04	1°♄43'30		retrograde	893 Mar 14 j 20:25	13°♄23'52	
	892 Apr 09 j 05:22	30°♄		evening set	893 Mar 17 j 03:04	13°♄06'44	
inferior conj	892 Apr 13 j 04:31	27°♄40'31	0°44'06	inferior conj	893 Mar 25 j 00:16	8°♄47'43	2°17'04
minimum elong	892 Apr 13 j 06:23	27°♄37'34	0°43'27	minimum elong	893 Mar 25 j 04:26	8°♄40'07	2°15'53
min. Earth dist.	892 Apr 15 j 14:08	26°♄10'19	0.55756 AU	min. Earth dist.	893 Mar 28 j 06:44	6°♄26'02	0.57309 AU
desc. node	892 Apr 15 j 18:31	26°♄03'37		morning rise	893 Apr 02 j 02:43	3°♄38'17	
morning rise	892 Apr 21 j 22:09	23°♄04'20		desc. node	893 Apr 02 j 15:34	3°♄25'04	
direct	892 Apr 26 j 05:55	22°♄22'34		direct	893 Apr 07 j 13:07	2°♄26'38	
morning max el	892 May 10 j 05:40	29°♄23'24	24°31'52	morning max el	893 Apr 21 j 20:57	9°♄55'48	26°03'55
	892 May 10 j 20:46	0°♄			893 May 07 j 03:05	0°♄	
	892 May 30 j 23:08	0°♄		morning set	893 May 20 j 01:54	24°♄22'48	
asc. node	892 Jun 03 j 17:04	7°♄34'53		asc. node	893 May 21 j 14:06	27°♄35'04	
morning set	892 Jun 04 j 14:33	9°♄27'25			893 May 22 j 17:02	0°♄	
superior conj	892 Jun 11 j 14:36	24°♄34'20	1°14'48	superior conj	893 May 27 j 01:46	9°♄32'19	0°55'07
minimum elong	892 Jun 11 j 12:10	24°♄21'03	1°14'26	minimum elong	893 May 26 j 23:39	9°♄20'41	0°54'44
max. Earth dist.	892 Jun 13 j 05:35	28°♄05'12	1.33029 AU	max. Earth dist.	893 May 27 j 15:47	10°♄49'10	1.32460 AU
	892 Jun 14 j 02:58	0°♄		evening rise	893 Jun 03 j 01:50	24°♄36'28	
evening rise	892 Jun 18 j 21:21	9°♄58'13			893 Jun 05 j 17:11	0°♄	
	892 Jun 29 j 13:16	0°♄			893 Jun 23 j 07:01	0°♄	
desc. node	892 Jul 12 j 17:51	20°♄00'09		desc. node	893 Jun 29 j 14:51	8°♄06'00	
	892 Jul 21 j 10:52	0°♄		evening max el	893 Jul 04 j 02:47	12°♄50'33	27°03'26
evening max el	892 Jul 21 j 20:52	0°♄24'02	27°25'15	retrograde	893 Jul 18 j 00:46	20°♄06'03	
retrograde	892 Aug 04 j 14:12	7°♄42'41		evening set	893 Jul 25 j 01:16	17°♄53'21	
evening set	892 Aug 11 j 19:12	5°♄07'05		min. Earth dist.	893 Jul 28 j 17:02	15°♄11'04	0.61223 AU
min. Earth dist.	892 Aug 15 j 09:31	2°♄03'48	0.63139 AU	inferior conj	893 Jul 31 j 21:11	12°♄25'18	-4°24'53
	892 Aug 17 j 11:49	30°♄		minimum elong	893 Aug 01 j 01:35	12°♄15'39	4°24'09
inferior conj	892 Aug 18 j 03:23	29°♄21'14	-3°42'46	morning rise	893 Aug 08 j 03:35	7°♄33'18	
minimum elong	892 Aug 18 j 08:25	29°♄08'47	3°41'26	direct	893 Aug 10 j 14:18	7°♄08'53	
morning rise	892 Aug 24 j 22:54	24°♄08'43		morning max el	893 Aug 17 j 16:11	10°♄40'05	18°00'06
direct	892 Aug 27 j 11:02	23°♄39'07		asc. node	893 Aug 17 j 13:19	10°♄33'11	
asc. node	892 Aug 30 j 16:16	24°♄28'57			893 Aug 30 j 10:35	0°♄	
morning max el	892 Sep 03 j 02:20	27°♄04'46	17°52'27	morning set	893 Sep 02 j 13:23	5°♄43'00	
	892 Sep 05 j 15:59	0°♄					
morning set	892 Sep 19 j 12:15	22°♄30'51		superior conj	893 Sep 12 j 18:11	24°♄11'55	1°19'22
	892 Sep 23 j 18:51	0°♄		minimum elong	893 Sep 12 j 22:41	24°♄31'44	1°18'54
					893 Sep 16 j 02:24	0°♄	
superior conj	892 Oct 01 j 07:40	12°♄50'44	0°48'23	max. Earth dist.	893 Sep 20 j 07:32	7°♄06'21	1.42145 AU
minimum elong	892 Oct 01 j 12:04	13°♄09'04	0°47'49	desc. node	893 Sep 25 j 14:12	15°♄42'07	
max. Earth dist.	892 Oct 07 j 20:13	23°♄31'56	1.43723 AU	evening rise	893 Sep 26 j 09:40	16°♄59'42	
desc. node	892 Oct 08 j 17:12	24°♄56'13			893 Oct 04 j 19:16	0°♄	
	892 Oct 11 j 21:38	0°♄			893 Oct 26 j 15:18	0°♄	
evening rise	892 Oct 16 j 17:53	7°♄33'58		evening max el	893 Oct 29 j 02:52	2°♄40'25	22°17'47
	892 Oct 31 j 16:08	0°♄		retrograde	893 Nov 07 j 15:53	8°♄20'49	
evening max el	892 Nov 15 j 08:16	19°♄09'46	21°02'25	evening set	893 Nov 12 j 04:18	6°♄31'56	
retrograde	892 Nov 23 j 20:01	24°♄11'56		asc. node	893 Nov 13 j 12:32	5°♄16'57	
asc. node	892 Nov 26 j 15:30	23°♄27'31		inferior conj	893 Nov 17 j 12:41	0°♄12'42	1°20'39
evening set	892 Nov 27 j 20:42	22°♄39'55		minimum elong	893 Nov 17 j 10:56	0°♄18'45	1°19'57
inferior conj	892 Dec 03 j 05:39	16°♄27'40	2°07'04	min. Earth dist.	893 Nov 17 j 11:35	0°♄16'30	0.67726 AU
minimum elong	892 Dec 03 j 03:12	16°♄36'06	2°06'12		893 Nov 17 j 16:21	30°♄	
min. Earth dist.	892 Dec 03 j 15:37	15°♄53'22	0.67439 AU	morning rise	893 Nov 22 j 17:24	24°♄01'12	
morning rise	892 Dec 08 j 09:30	10°♄14'20		direct	893 Nov 27 j 09:45	22°♄04'33	
direct	892 Dec 13 j 16:51	7°♄55'18		morning max el	893 Dec 06 j 21:29	27°♄41'00	22°21'21
morning max el	892 Dec 24 j 10:32	14°♄19'33	23°49'03		893 Dec 09 j 01:36	0°♄	
desc. node	893 Jan 04 j 16:25	27°♄56'12		desc. node	893 Dec 22 j 13:27	17°♄41'58	
	893 Jan 06 j 04:37	0°♄			893 Dec 30 j 20:44	0°♄	

morning set	894 Jan 09 j 08:54	14° ☿ 57'51			894 Dec 23 j 19:02	0° ☿	
max. Earth dist.	894 Jan 14 j 16:13	23° ☿ 45'15	1.40731 AU	max. Earth dist.	894 Dec 27 j 19:55	6° ☿ 30'33	1.42662 AU
	894 Jan 18 j 07:44	0° ☿					
superior conj	894 Jan 22 j 11:35	7° ☿ 20'31	-2°01'16	superior conj	895 Jan 03 j 20:34	18° ☿ 11'56	-2°01'43
minimum elong	894 Jan 22 j 13:33	7° ☿ 29'19	2°01'13	minimum elong	895 Jan 03 j 18:19	18° ☿ 02'24	2°01'40
evening rise	894 Feb 01 j 15:21	26° ☿ 05'53		evening rise	895 Jan 10 j 16:01	0° ☿	
	894 Feb 03 j 17:21	0° ☿		asc. node	895 Jan 15 j 11:41	8° ☿ 35'00	
asc. node	894 Feb 09 j 11:50	10° ☿ 24'18			895 Jan 27 j 08:52	28° ☿ 52'14	
evening max el	894 Feb 17 j 21:23	22° ☿ 05'29	18°18'53	evening max el	895 Jan 28 j 03:32	0° ☿	
retrograde	894 Feb 25 j 01:39	25° ☿ 39'28		retrograde	895 Feb 01 j 08:14	5° ☿ 07'43	18°07'35
evening set	894 Feb 27 j 13:57	25° ☿ 14'19		evening set	895 Feb 07 j 23:10	8° ☿ 32'24	
inferior conj	894 Mar 06 j 17:11	20° ☿ 34'31	3°15'24	inferior conj	895 Feb 10 j 16:20	7° ☿ 57'55	
minimum elong	894 Mar 06 j 20:31	20° ☿ 27'24	3°14'48	minimum elong	895 Feb 17 j 05:08	2° ☿ 56'57	3°42'42
min. Earth dist.	894 Mar 10 j 03:22	17° ☿ 41'12	0.59320 AU		895 Feb 17 j 06:23	2° ☿ 53'53	3°42'38
morning rise	894 Mar 14 j 00:42	14° ☿ 58'58		min. Earth dist.	895 Feb 20 j 05:45	30° ☿	
direct	894 Mar 20 j 09:11	13° ☿ 10'17		morning rise	895 Feb 20 j 07:10	29° ☿ 56'41	0.61434 AU
desc. node	894 Mar 20 j 12:36	13° ☿ 10'20		direct	895 Feb 23 j 18:58	27° ☿ 04'19	
morning max el	894 Apr 03 j 16:57	20° ☿ 54'32	27°11'52	desc. node	895 Mar 02 j 15:44	24° ☿ 41'51	
	894 Apr 11 j 13:53	0° ☿			895 Mar 07 j 09:39	25° ☿ 43'22	
	894 Apr 29 j 22:01	0° ☿		morning max el	895 Mar 14 j 00:32	0° ☿	
morning set	894 May 04 j 11:02	9° ☿ 10'12			895 Mar 16 j 19:28	2° ☿ 34'04	27°45'38
asc. node	894 May 08 j 11:07	17° ☿ 42'30		morning set	895 Apr 05 j 23:02	0° ☿	
max. Earth dist.	894 May 11 j 04:23	23° ☿ 39'24	1.32266 AU		895 Apr 18 j 16:07	23° ☿ 43'20	
				max. Earth dist.	895 Apr 21 j 16:18	0° ☿	
superior conj	894 May 11 j 13:31	24° ☿ 29'39	0°32'18		895 Apr 24 j 15:34	6° ☿ 22'46	1.32443 AU
minimum elong	894 May 11 j 12:08	24° ☿ 22'01	0°32'00	asc. node	895 Apr 25 j 08:10	7° ☿ 53'03	
	894 May 14 j 01:41	0° ☿					
evening rise	894 May 18 j 10:47	9° ☿ 26'15		superior conj	895 Apr 26 j 00:14	9° ☿ 20'40	0°07'06
	894 May 29 j 02:09	0° ☿		minimum elong	895 Apr 25 j 23:54	9° ☿ 18'52	0°07'01
evening max el	894 Jun 16 j 02:11	24° ☿ 31'42	26°08'55	behind sun begin	895 Apr 25 j 19:18	8° ☿ 53'46	
desc. node	894 Jun 16 j 11:53	24° ☿ 54'33		behind sun end	895 Apr 26 j 04:30	9° ☿ 43'59	
	894 Jun 23 j 11:43	0° ☿		evening rise	895 May 02 j 22:07	24° ☿ 20'23	
retrograde	894 Jun 30 j 02:30	1° ☿ 43'23			895 May 05 j 15:23	0° ☿	
evening set	894 Jul 06 j 10:33	0° ☿ 05'24			895 May 23 j 18:40	0° ☿	
	894 Jul 06 j 14:48	30° ☿		evening max el	895 May 28 j 18:51	5° ☿ 29'32	24°48'00
min. Earth dist.	894 Jul 10 j 14:57	27° ☿ 28'02	0.59166 AU	desc. node	895 Jun 03 j 08:54	9° ☿ 55'19	
inferior conj	894 Jul 13 j 22:33	24° ☿ 57'33	-4°49'07	retrograde	895 Jun 11 j 17:50	12° ☿ 34'14	
minimum elong	894 Jul 14 j 00:12	24° ☿ 54'25	4°49'02	evening set	895 Jun 16 j 20:33	11° ☿ 34'50	
morning rise	894 Jul 21 j 16:00	20° ☿ 28'12		min. Earth dist.	895 Jun 22 j 06:09	8° ☿ 44'36	0.57219 AU
direct	894 Jul 24 j 03:47	20° ☿ 06'58		inferior conj	895 Jun 25 j 04:28	6° ☿ 49'14	-4°43'19
morning max el	894 Aug 01 j 00:48	23° ☿ 53'25	18°27'40	minimum elong	895 Jun 25 j 01:20	6° ☿ 54'26	4°43'03
asc. node	894 Aug 04 j 10:22	27° ☿ 45'00		morning rise	895 Jul 03 j 08:51	2° ☿ 41'28	
	894 Aug 06 j 01:23	0° ☿		direct	895 Jul 05 j 23:16	2° ☿ 22'17	
morning set	894 Aug 17 j 03:30	19° ☿ 32'52		morning max el	895 Jul 15 j 01:19	6° ☿ 36'23	19°16'07
	894 Aug 22 j 14:18	0° ☿		asc. node	895 Jul 22 j 07:25	15° ☿ 50'09	
					895 Jul 30 j 04:07	0° ☿	
superior conj	894 Aug 26 j 03:57	6° ☿ 42'00	1°38'00	morning set	895 Aug 01 j 02:43	3° ☿ 50'04	
minimum elong	894 Aug 26 j 06:45	6° ☿ 54'58	1°37'48				
max. Earth dist.	894 Sep 02 j 13:52	19° ☿ 59'37	1.40212 AU	superior conj	895 Aug 09 j 07:19	20° ☿ 05'19	1°45'54
evening rise	894 Sep 06 j 22:39	27° ☿ 24'34		minimum elong	895 Aug 09 j 08:05	20° ☿ 09'03	1°45'53
	894 Sep 08 j 12:16	0° ☿			895 Aug 14 j 12:36	0° ☿	
desc. node	894 Sep 12 j 11:14	6° ☿ 22'53		max. Earth dist.	895 Aug 15 j 17:20	2° ☿ 12'04	1.38179 AU
	894 Sep 28 j 10:09	0° ☿		evening rise	895 Aug 19 j 12:08	8° ☿ 58'25	
evening max el	894 Oct 11 j 17:07	16° ☿ 13'27	23°37'39	desc. node	895 Aug 30 j 08:16	26° ☿ 54'21	
retrograde	894 Oct 22 j 08:43	22° ☿ 30'29			895 Sep 01 j 08:23	0° ☿	
evening set	894 Oct 27 j 10:35	20° ☿ 23'54		evening max el	895 Sep 24 j 05:06	29° ☿ 49'44	24°55'36
asc. node	894 Oct 31 j 09:35	15° ☿ 57'11			895 Sep 24 j 09:18	0° ☿	
inferior conj	894 Nov 01 j 19:47	14° ☿ 01'21	0°29'23	retrograde	895 Oct 05 j 21:38	6° ☿ 37'11	
minimum elong	894 Nov 01 j 19:05	14° ☿ 03'44	0°29'05	evening set	895 Oct 11 j 13:53	4° ☿ 13'44	
min. Earth dist.	894 Nov 01 j 08:09	14° ☿ 41'03	0.67680 AU		895 Oct 15 j 10:06	30° ☿	
morning rise	894 Nov 07 j 03:32	7° ☿ 54'00		min. Earth dist.	895 Oct 16 j 02:59	29° ☿ 05'11	0.67303 AU
direct	894 Nov 11 j 05:47	6° ☿ 19'56		inferior conj	895 Oct 17 j 01:13	27° ☿ 51'52	-0°25'23
morning max el	894 Nov 19 j 14:32	11° ☿ 11'45	21°00'13	minimum elong	895 Oct 17 j 01:51	27° ☿ 49'46	0°25'06
	894 Dec 04 j 02:53	0° ☿		asc. node	895 Oct 18 j 06:38	26° ☿ 16'07	
desc. node	894 Dec 09 j 10:30	7° ☿ 50'04		morning rise	895 Oct 22 j 13:58	21° ☿ 51'05	
morning set	894 Dec 19 j 16:04	23° ☿ 29'08		direct	895 Oct 26 j 03:45	20° ☿ 37'26	
				morning max el	895 Nov 02 j 15:23	24° ☿ 53'37	19°50'52

	895 Nov 07 j 01:08	0°♌		desc. node	896 Nov 12 j 04:36	18°♌49'56	
desc. node	895 Nov 26 j 07:33	28°♌14'20			896 Nov 19 j 07:23	0°♌	
	895 Nov 27 j 10:59	0°♌		max. Earth dist.	896 Nov 21 j 23:23	4°♌11'25	1.44942 AU
morning set	895 Nov 28 j 12:20	1°♌37'52					
max. Earth dist.	895 Dec 10 j 07:05	20°♌05'03	1.44124 AU	superior conj	896 Nov 23 j 10:44	6°♌30'35	-1°10'05
				minimum elong	896 Nov 23 j 02:37	5°♌58'39	1°09'10
superior conj	895 Dec 15 j 02:59	27°♌50'16	-1°45'09		896 Dec 08 j 03:41	0°♌	
minimum elong	895 Dec 14 j 19:45	27°♌21'00	1°44'36	evening rise	896 Dec 08 j 17:03	0°♌54'14	
	895 Dec 16 j 10:55	0°♌			896 Dec 27 j 17:12	0°♌	
evening rise	895 Dec 28 j 13:33	20°♌13'07		evening max el	896 Dec 29 j 08:19	1°♌48'07	18°41'39
	896 Jan 03 j 07:26	0°♌		asc. node	896 Dec 31 j 02:59	3°♌26'10	
asc. node	896 Jan 14 j 05:55	16°♌36'53		retrograde	897 Jan 05 j 00:34	5°♌31'44	
evening max el	896 Jan 15 j 20:44	18°♌23'41	18°15'27	evening set	897 Jan 08 j 03:59	4°♌35'45	
retrograde	896 Jan 22 j 08:11	21°♌52'17			897 Jan 13 j 01:26	30°♌	
evening set	896 Jan 25 j 06:06	21°♌07'35		inferior conj	897 Jan 13 j 22:20	28°♌57'17	3°32'45
inferior conj	896 Jan 31 j 08:09	15°♌46'54	3°46'20	minimum elong	897 Jan 13 j 20:19	29°♌03'23	3°32'28
minimum elong	896 Jan 31 j 07:27	15°♌48'51	3°46'19	min. Earth dist.	897 Jan 15 j 19:03	26°♌42'11	0.65031 AU
min. Earth dist.	896 Feb 02 j 20:17	13°♌01'38	0.63391 AU	morning rise	897 Jan 19 j 12:14	22°♌48'38	
morning rise	896 Feb 06 j 07:58	9°♌44'02		direct	897 Jan 26 j 05:40	19°♌56'15	
direct	896 Feb 13 j 07:02	6°♌59'14		desc. node	897 Feb 08 j 03:46	27°♌19'50	
desc. node	896 Feb 22 j 06:43	10°♌38'21		morning max el	897 Feb 08 j 12:33	27°♌41'40	27°04'28
morning max el	896 Feb 27 j 02:58	14°♌53'05	27°42'03		897 Feb 10 j 17:16	0°♌	
	896 Mar 10 j 10:50	0°♌			897 Mar 04 j 03:36	0°♌	
	896 Mar 28 j 13:25	0°♌		morning set	897 Mar 16 j 03:48	21°♌30'32	
morning set	896 Apr 01 j 14:43	7°♌53'11			897 Mar 20 j 10:44	0°♌	
max. Earth dist.	896 Apr 06 j 21:02	18°♌43'33	1.33018 AU	max. Earth dist.	897 Mar 20 j 16:55	0°♌31'18	1.34036 AU
superior conj	896 Apr 09 j 08:03	23°♌58'19	-0°19'46	superior conj	897 Mar 24 j 11:02	8°♌16'45	-0°47'09
minimum elong	896 Apr 09 j 09:01	24°♌03'28	0°19'34	minimum elong	897 Mar 24 j 13:21	8°♌28'54	0°46'41
asc. node	896 Apr 11 j 05:12	28°♌01'43		asc. node	897 Mar 29 j 02:16	18°♌04'36	
	896 Apr 12 j 03:06	0°♌		evening rise	897 Mar 31 j 20:18	23°♌52'22	
evening rise	896 Apr 16 j 09:53	9°♌10'59			897 Apr 03 j 19:59	0°♌	
	896 Apr 27 j 06:34	0°♌		evening max el	897 Apr 21 j 03:57	26°♌41'38	21°40'18
evening max el	896 May 09 j 08:57	16°♌02'23	23°13'33		897 Apr 25 j 05:19	0°♌	
desc. node	896 May 20 j 05:56	22°♌30'56		retrograde	897 May 03 j 12:56	2°♌44'39	
retrograde	896 May 22 j 21:03	22°♌46'41		evening set	897 May 06 j 00:54	2°♌30'35	
evening set	896 May 26 j 12:08	22°♌17'45		desc. node	897 May 07 j 02:57	2°♌16'08	
min. Earth dist.	896 Jun 02 j 18:41	19°♌00'31	0.55714 AU		897 May 12 j 16:07	30°♌	
inferior conj	896 Jun 04 j 14:36	17°♌56'06	-3°54'38	inferior conj	897 May 15 j 10:53	28°♌28'31	-2°20'39
minimum elong	896 Jun 04 j 07:24	18°♌06'41	3°53'02	minimum elong	897 May 15 j 04:35	28°♌37'19	2°18'35
morning rise	896 Jun 13 j 05:20	14°♌01'52		min. Earth dist.	897 May 15 j 07:12	28°♌33'40	0.54984 AU
direct	896 Jun 15 j 23:23	13°♌43'35		morning rise	897 May 24 j 09:11	24°♌31'55	
morning max el	896 Jun 26 j 15:16	18°♌39'33	20°25'36	direct	897 May 27 j 11:04	24°♌11'04	
	896 Jul 05 j 11:35	0°♌		morning max el	897 Jun 08 j 17:56	29°♌58'44	21°53'45
asc. node	896 Jul 08 j 04:28	4°♌35'36			897 Jun 08 j 18:29	0°♌	
morning set	896 Jul 15 j 08:08	18°♌26'14		asc. node	897 Jun 25 j 01:31	23°♌51'23	
	896 Jul 20 j 22:54	0°♌			897 Jun 28 j 03:38	0°♌	
				morning set	897 Jun 29 j 17:29	3°♌15'07	
superior conj	896 Jul 22 j 23:16	4°♌06'46	1°45'09				
minimum elong	896 Jul 22 j 22:23	4°♌02'17	1°45'07	superior conj	897 Jul 06 j 23:56	18°♌34'48	1°37'31
max. Earth dist.	896 Jul 27 j 23:21	14°♌02'05	1.36291 AU	minimum elong	897 Jul 06 j 21:59	18°♌24'35	1°37'22
evening rise	896 Jul 31 j 23:08	21°♌34'24		max. Earth dist.	897 Jul 10 j 13:27	25°♌57'03	1.34720 AU
	896 Aug 05 j 16:02	0°♌			897 Jul 12 j 13:43	0°♌	
desc. node	896 Aug 16 j 05:17	17°♌11'00		evening rise	897 Jul 15 j 02:56	4°♌59'57	
	896 Aug 25 j 04:45	0°♌			897 Jul 29 j 10:02	0°♌	
evening max el	896 Sep 05 j 16:47	13°♌27'38	26°04'19	desc. node	897 Aug 03 j 02:18	7°♌05'55	
retrograde	896 Sep 18 j 05:55	20°♌35'25		evening max el	897 Aug 19 j 04:55	27°♌01'04	26°55'54
evening set	896 Sep 24 j 12:20	17°♌58'27			897 Aug 22 j 14:22	0°♌	
min. Earth dist.	896 Sep 28 j 17:46	13°♌25'50	0.66588 AU	retrograde	897 Sep 01 j 08:50	4°♌18'05	
inferior conj	896 Sep 30 j 03:12	11°♌41'28	-1°22'09	evening set	897 Sep 08 j 03:39	1°♌33'53	
minimum elong	896 Sep 30 j 05:19	11°♌34'50	1°21'16		897 Sep 09 j 21:08	30°♌	
asc. node	896 Oct 04 j 03:42	7°♌10'59		min. Earth dist.	897 Sep 12 j 02:02	27°♌38'03	0.65529 AU
morning rise	896 Oct 05 j 22:40	5°♌49'58		inferior conj	897 Sep 13 j 23:37	25°♌26'06	-2°19'09
direct	896 Oct 09 j 02:09	4°♌53'17		minimum elong	897 Sep 14 j 03:13	25°♌15'40	2°17'48
morning max el	896 Oct 15 j 23:24	8°♌43'58	18°56'14	morning rise	897 Sep 20 j 03:25	19°♌46'56	
	896 Oct 31 j 04:41	0°♌		asc. node	897 Sep 21 j 00:45	19°♌23'52	
morning set	896 Nov 06 j 22:39	10°♌35'13		direct	897 Sep 22 j 23:00	19°♌03'24	

morning max el	897 Sep 29 j 12:33	22° \mathbb{M} 37'42	18°17'47		898 Sep 28 j 17:25	0° $\underline{\mathbf{a}}$	
	897 Oct 05 j 08:48	0° $\underline{\mathbf{a}}$		morning set	898 Sep 30 j 06:37	2° $\underline{\mathbf{a}}$ 39'03	
morning set	897 Oct 18 j 12:50	20° $\underline{\mathbf{a}}$ 56'43					
	897 Oct 24 j 02:40	0° \mathbb{M}		superior conj	898 Oct 13 j 04:36	24° $\underline{\mathbf{a}}$ 15'45	0°24'55
desc. node	897 Oct 30 j 01:36	9° \mathbb{M} 32'20		minimum elong	898 Oct 13 j 07:21	24° $\underline{\mathbf{a}}$ 26'54	0°24'33
				desc. node	898 Oct 16 j 22:37	0° \mathbb{M} 18'50	
superior conj	897 Nov 02 j 12:04	14° \mathbb{M} 58'57	-0°22'39		898 Oct 16 j 17:55	0° \mathbb{M}	
minimum elong	897 Nov 02 j 09:07	14° \mathbb{M} 47'18	0°22'15	max. Earth dist.	898 Oct 18 j 12:28	2° \mathbb{M} 49'49	1.44401 AU
max. Earth dist.	897 Nov 04 j 18:06	18° \mathbb{M} 31'51	1.45035 AU	evening rise	898 Oct 29 j 08:03	19° \mathbb{M} 44'17	
	897 Nov 12 j 01:44	0° \mathbb{X}			898 Nov 05 j 01:15	0° \mathbb{X}	
evening rise	897 Nov 18 j 21:04	10° \mathbb{X} 38'14		evening max el	898 Nov 25 j 20:05	28° \mathbb{X} 45'04	20°23'10
greatest brilliancy	897 Nov 30 j 06:08	28° \mathbb{X} 19'27	-0.7m		898 Nov 27 j 02:46	0° \mathbb{Z}	
	897 Dec 01 j 08:33	0° \mathbb{Z}		retrograde	898 Dec 03 j 18:38	3° \mathbb{Z} 25'33	
evening max el	897 Dec 12 j 16:40	15° \mathbb{Z} 15'57	19°24'55	asc. node	898 Dec 04 j 21:04	3° \mathbb{Z} 18'42	
asc. node	897 Dec 18 j 00:02	19° \mathbb{Z} 04'46		evening set	898 Dec 07 j 13:36	2° \mathbb{Z} 02'20	
retrograde	897 Dec 19 j 20:53	19° \mathbb{Z} 24'04			898 Dec 09 j 18:19	30° \mathbb{R} \mathbb{X}	
evening set	897 Dec 23 j 07:12	18° \mathbb{Z} 15'17		inferior conj	898 Dec 12 j 23:35	25° \mathbb{X} 55'45	2°30'57
inferior conj	897 Dec 28 j 20:22	12° \mathbb{Z} 21'24	3°06'35	minimum elong	898 Dec 12 j 20:55	26° \mathbb{X} 04'46	2°30'07
minimum elong	897 Dec 28 j 17:43	12° \mathbb{Z} 29'57	3°05'57	min. Earth dist.	898 Dec 13 j 16:21	24° \mathbb{X} 59'00	0.67129 AU
min. Earth dist.	897 Dec 30 j 02:21	10° \mathbb{Z} 44'21	0.66279 AU	morning rise	898 Dec 18 j 04:04	19° \mathbb{X} 42'37	
morning rise	898 Jan 03 j 04:00	6° \mathbb{Z} 09'34		direct	898 Dec 23 j 20:07	17° \mathbb{X} 12'06	
direct	898 Jan 09 j 10:16	3° \mathbb{Z} 23'15		morning max el	899 Jan 04 j 06:16	24° \mathbb{X} 00'37	24°39'21
morning max el	898 Jan 21 j 21:49	10° \mathbb{Z} 46'55	26°00'23		899 Jan 09 j 14:57	0° \mathbb{Z}	
desc. node	898 Jan 26 j 00:49	15° \mathbb{Z} 16'49		desc. node	899 Jan 12 j 21:51	4° \mathbb{Z} 07'29	
	898 Feb 06 j 05:20	0° \approx			899 Jan 30 j 15:37	0° \approx	
	898 Feb 24 j 17:43	0° \mathbb{H}		morning set	899 Feb 09 j 07:46	16° \approx 14'57	
morning set	898 Feb 27 j 03:17	4° \mathbb{H} 22'49		max. Earth dist.	899 Feb 12 j 23:37	22° \approx 49'11	1.37396 AU
max. Earth dist.	898 Mar 03 j 01:06	11° \mathbb{H} 46'29	1.35514 AU		899 Feb 16 j 20:09	0° \mathbb{H}	
superior conj	898 Mar 08 j 06:41	22° \mathbb{H} 08'32	-1°13'39	superior conj	899 Feb 19 j 15:50	5° \mathbb{H} 24'51	-1°37'15
minimum elong	898 Mar 08 j 10:11	22° \mathbb{H} 26'15	1°13'04	minimum elong	899 Feb 19 j 19:54	5° \mathbb{H} 44'35	1°36'47
	898 Mar 12 j 02:45	0° \mathbb{Y}		evening rise	899 Feb 28 j 04:49	22° \mathbb{H} 21'35	
asc. node	898 Mar 15 j 23:19	7° \mathbb{Y} 57'17		asc. node	899 Mar 02 j 20:21	27° \mathbb{H} 34'53	
evening rise	898 Mar 16 j 03:23	8° \mathbb{Y} 18'05			899 Mar 04 j 02:26	0° \mathbb{Y}	
	898 Mar 28 j 00:14	0° \mathbb{B}		evening max el	899 Mar 17 j 01:51	19° \mathbb{Y} 40'10	19°16'52
evening max el	898 Apr 03 j 09:13	7° \mathbb{B} 51'30	20°19'30	retrograde	899 Mar 26 j 02:43	24° \mathbb{Y} 01'40	
retrograde	898 Apr 14 j 02:18	13° \mathbb{B} 01'30		evening set	899 Mar 28 j 06:22	23° \mathbb{Y} 47'54	
evening set	898 Apr 16 j 04:18	12° \mathbb{B} 50'37		inferior conj	899 Apr 05 j 14:40	19° \mathbb{Y} 38'39	1°27'39
desc. node	898 Apr 23 j 23:58	9° \mathbb{B} 36'44		minimum elong	899 Apr 05 j 17:59	19° \mathbb{Y} 33'07	1°26'34
inferior conj	898 Apr 25 j 06:15	8° \mathbb{B} 52'39	-0°21'54	min. Earth dist.	899 Apr 08 j 11:12	17° \mathbb{Y} 45'05	0.56337 AU
minimum elong	898 Apr 25 j 05:14	8° \mathbb{B} 54'09	0°21'31	desc. node	899 Apr 10 j 21:01	16° \mathbb{Y} 18'03	
min. Earth dist.	898 Apr 26 j 20:26	7° \mathbb{B} 56'41	0.55208 AU	morning rise	899 Apr 14 j 02:45	14° \mathbb{Y} 48'18	
morning rise	898 May 04 j 04:41	4° \mathbb{B} 35'16		direct	899 Apr 18 j 21:49	13° \mathbb{Y} 55'29	
direct	898 May 07 j 23:12	4° \mathbb{B} 04'23		morning max el	899 May 03 j 02:15	21° \mathbb{Y} 09'29	25°13'18
morning max el	898 May 21 j 11:45	10° \mathbb{B} 41'24	23°33'48		899 May 10 j 18:04	0° \mathbb{B}	
	898 Jun 04 j 19:31	0° \mathbb{I}			899 May 28 j 04:39	0° \mathbb{I}	
asc. node	898 Jun 11 j 22:34	13° \mathbb{I} 29'40		morning set	899 May 29 j 16:49	3° \mathbb{I} 08'45	
morning set	898 Jun 14 j 04:57	18° \mathbb{I} 11'22		asc. node	899 May 29 j 19:36	3° \mathbb{I} 23'25	
	898 Jun 19 j 17:13	0° \mathbb{E}					
				superior conj	899 Jun 05 j 16:26	18° \mathbb{I} 15'45	1°06'54
superior conj	898 Jun 21 j 06:26	3° \mathbb{E} 20'33	1°24'25	minimum elong	899 Jun 05 j 14:04	18° \mathbb{I} 02'51	1°06'30
minimum elong	898 Jun 21 j 04:01	3° \mathbb{E} 07'32	1°24'07	max. Earth dist.	899 Jun 06 j 20:37	20° \mathbb{I} 49'21	1.32738 AU
max. Earth dist.	898 Jun 23 j 13:14	8° \mathbb{E} 13'10	1.33532 AU		899 Jun 11 j 03:26	0° \mathbb{E}	
evening rise	898 Jun 28 j 19:04	19° \mathbb{E} 02'26		evening rise	899 Jun 12 j 19:51	3° \mathbb{E} 30'00	
	898 Jul 04 j 11:56	0° \mathbb{Q}			899 Jun 27 j 06:20	0° \mathbb{Q}	
desc. node	898 Jul 20 j 23:17	26° \mathbb{Q} 29'58		desc. node	899 Jul 07 j 20:18	15° \mathbb{Q} 09'19	
	898 Jul 23 j 14:12	0° \mathbb{M}		evening max el	899 Jul 15 j 01:06	23° \mathbb{Q} 07'26	27°20'04
evening max el	898 Aug 01 j 16:32	10° \mathbb{M} 19'21	27°23'05		899 Jul 25 j 19:50	0° \mathbb{M}	
retrograde	898 Aug 15 j 05:48	17° \mathbb{M} 37'49		retrograde	899 Jul 28 j 20:14	0° \mathbb{M} 24'21	
evening set	898 Aug 22 j 09:03	14° \mathbb{M} 55'44			899 Jul 31 j 18:35	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	898 Aug 26 j 01:37	11° \mathbb{M} 34'58	0.64114 AU	evening set	899 Aug 05 j 00:53	27° \mathbb{Q} 56'41	
inferior conj	898 Aug 28 j 12:05	9° \mathbb{M} 01'10	-3°13'47	min. Earth dist.	899 Aug 08 j 14:50	25° \mathbb{Q} 04'16	0.62357 AU
minimum elong	898 Aug 28 j 16:50	8° \mathbb{M} 48'41	3°12'19	inferior conj	899 Aug 11 j 13:38	22° \mathbb{Q} 18'26	-4°02'12
morning rise	898 Sep 04 j 01:34	3° \mathbb{M} 37'47		minimum elong	899 Aug 11 j 18:37	22° \mathbb{Q} 06'44	4°01'04
direct	898 Sep 06 j 15:46	3° \mathbb{M} 03'53		morning rise	899 Aug 18 j 13:44	17° \mathbb{Q} 14'24	
asc. node	898 Sep 07 j 21:48	3° \mathbb{M} 11'53		direct	899 Aug 21 j 01:04	16° \mathbb{Q} 47'11	
morning max el	898 Sep 13 j 04:18	6° \mathbb{M} 30'08	17°56'33	asc. node	899 Aug 25 j 18:49	18° \mathbb{Q} 29'47	

morning max el	899 Aug 27 j 19:43	20°Ω13'41	17°53'25	asc. node	900 Aug 11 j 15:52	5°Ω04'16	
	899 Sep 04 j 02:08	0°൬		morning set	900 Aug 26 j 05:07	28°Ω51'56	
morning set	899 Sep 12 j 21:59	15°൬22'56			900 Aug 26 j 19:37	0°൬	
	899 Sep 21 j 03:54	0°Ω					
				superior conj	900 Sep 04 j 20:44	16°൬43'39	1°28'43
superior conj	899 Sep 23 j 23:39	4°Ω51'21	1°03'05	minimum elong	900 Sep 05 j 00:38	17°൬01'10	1°28'21
minimum elong	899 Sep 24 j 04:27	5°Ω11'46	1°02'30		900 Sep 12 j 11:33	0°Ω	
max. Earth dist.	899 Oct 01 j 03:02	16°Ω44'54	1.43115 AU	max. Earth dist.	900 Sep 12 j 11:47	0°Ω01'00	1.41347 AU
desc. node	899 Oct 03 j 19:38	21°Ω05'44		evening rise	900 Sep 17 j 16:38	8°Ω36'49	
evening rise	899 Oct 08 j 16:57	28°Ω49'23		desc. node	900 Sep 19 j 16:40	11°Ω49'41	
	899 Oct 09 j 11:05	0°൬			900 Oct 01 j 14:05	0°൬	
	899 Oct 29 j 19:15	0°𐌶		evening max el	900 Oct 21 j 10:06	25°൬45'16	22°51'31
evening max el	899 Nov 08 j 17:43	12°𐌶14'26	21°33'27		900 Oct 26 j 11:24	0°𐌶	
retrograde	899 Nov 17 j 15:46	17°𐌶32'47		retrograde	900 Oct 31 j 10:40	1°𐌶42'26	
evening set	899 Nov 21 j 21:17	15°𐌶53'31			900 Nov 04 j 21:38	30°𐌶൬	
asc. node	899 Nov 21 j 18:05	15°𐌶59'46		evening set	900 Nov 05 j 04:34	29°൬46'02	
inferior conj	899 Nov 27 j 05:48	9°𐌶37'38	1°48'02	asc. node	900 Nov 07 j 15:07	27°൬15'44	
minimum elong	899 Nov 27 j 03:36	9°𐌶45'15	1°47'13	inferior conj	900 Nov 10 j 13:06	23°൬24'37	0°59'26
min. Earth dist.	899 Nov 27 j 10:52	9°𐌶20'08	0.67606 AU	minimum elong	900 Nov 10 j 11:46	23°൬29'15	0°58'53
morning rise	899 Dec 02 j 09:46	3°𐌶24'55		min. Earth dist.	900 Nov 10 j 07:28	23°൬44'06	0.67741 AU
direct	899 Dec 07 j 10:34	1°𐌶15'31		morning rise	900 Nov 15 j 18:51	17°൬14'27	
morning max el	899 Dec 17 j 15:34	7°𐌶19'29	23°11'24	direct	900 Nov 20 j 04:56	15°൬27'41	
desc. node	899 Dec 30 j 18:54	23°𐌶36'25		morning max el	900 Nov 29 j 04:52	20°൬44'55	21°45'38
	900 Jan 04 j 06:33	0°𐌶			900 Dec 06 j 23:49	0°𐌶	
morning set	900 Jan 21 j 11:01	26°𐌶50'57		desc. node	900 Dec 16 j 15:56	13°𐌶32'30	
	900 Jan 23 j 07:54	0°≈			900 Dec 27 j 13:04	0°𐌶	
max. Earth dist.	900 Jan 25 j 18:50	4°≈12'49	1.39508 AU	morning set	900 Dec 31 j 09:00	6°𐌶02'35	
				max. Earth dist.	901 Jan 06 j 17:43	16°𐌶23'48	1.41590 AU
superior conj	900 Feb 02 j 10:22	17°≈54'56	-1°55'06				
minimum elong	900 Feb 02 j 13:41	18°≈10'16	1°54'54	superior conj	901 Jan 14 j 09:08	29°𐌶25'50	-2°03'16
	900 Feb 08 j 19:56	0°𐌶		minimum elong	901 Jan 14 j 09:34	29°𐌶27'48	2°03'16
evening rise	900 Feb 11 j 21:50	5°𐌶55'17			901 Jan 14 j 16:55	0°≈	
asc. node	900 Feb 17 j 17:24	16°𐌶51'37		evening rise	901 Jan 25 j 02:53	18°≈50'15	
	900 Feb 26 j 05:48	0°𐌶			901 Jan 31 j 06:19	0°𐌶	
evening max el	900 Feb 28 j 04:01	2°𐌶04'29	18°34'17	asc. node	901 Feb 03 j 14:27	5°𐌶39'50	
retrograde	900 Mar 06 j 21:27	5°𐌶51'26		evening max el	901 Feb 10 j 12:39	14°𐌶55'32	18°11'43
evening set	900 Mar 09 j 06:24	5°𐌶31'14		retrograde	901 Feb 17 j 10:03	18°𐌶23'50	
inferior conj	900 Mar 16 j 19:34	1°𐌶03'25	2°46'00	evening set	901 Feb 20 j 00:23	17°𐌶54'59	
minimum elong	900 Mar 16 j 23:40	0°𐌶55'26	2°45'02	inferior conj	901 Feb 26 j 21:04	13°𐌶06'24	3°30'18
	900 Mar 18 j 03:56	30°𐌶𐌶		minimum elong	901 Feb 26 j 23:34	13°𐌶00'44	3°29'59
min. Earth dist.	900 Mar 20 j 05:21	28°𐌶25'22	0.58122 AU	min. Earth dist.	901 Mar 02 j 05:00	10°𐌶06'45	0.60222 AU
morning rise	900 Mar 24 j 14:02	25°𐌶41'24		morning rise	901 Mar 05 j 20:40	7°𐌶22'20	
desc. node	900 Mar 27 j 18:03	24°𐌶32'59		direct	901 Mar 12 j 11:41	5°𐌶17'57	
direct	900 Mar 30 j 10:30	24°𐌶14'32		desc. node	901 Mar 14 j 15:06	5°𐌶30'25	
	900 Apr 11 j 18:55	0°𐌶		morning max el	901 Mar 26 j 18:20	13°𐌶07'18	27°30'40
morning max el	900 Apr 13 j 19:27	1°𐌶51'42	26°36'39		901 Apr 09 j 04:24	0°𐌶	
	900 May 03 j 21:34	0°𐌶			901 Apr 26 j 03:15	0°𐌶	
morning set	900 May 13 j 03:28	18°𐌶01'46		morning set	901 Apr 27 j 11:07	2°𐌶43'42	
asc. node	900 May 15 j 16:39	23°𐌶27'29		asc. node	901 May 02 j 13:43	13°𐌶36'42	
	900 May 18 j 16:43	0°𐌶		max. Earth dist.	901 May 03 j 20:35	16°𐌶25'14	1.32290 AU
superior conj	900 May 20 j 04:04	3°𐌶14'14	0°45'48	superior conj	901 May 04 j 15:36	18°𐌶09'28	0°21'52
minimum elong	900 May 20 j 02:13	3°𐌶04'03	0°45'25	minimum elong	901 May 04 j 14:37	18°𐌶04'08	0°21'39
max. Earth dist.	900 May 20 j 08:19	3°𐌶37'33	1.32328 AU		901 May 10 j 01:49	0°𐌶	
evening rise	900 May 27 j 02:30	18°𐌶13'52		evening rise	901 May 11 j 12:41	3°𐌶05'53	
	900 Jun 01 j 23:19	0°𐌶			901 May 25 j 23:52	0°𐌶	
	900 Jun 21 j 06:32	0°Ω		evening max el	901 Jun 08 j 00:27	16°𐌶35'16	25°37'08
desc. node	900 Jun 23 j 17:19	2°Ω45'19		desc. node	901 Jun 10 j 14:21	18°𐌶52'03	
evening max el	900 Jun 26 j 04:11	5°Ω14'07	26°43'56	retrograde	901 Jun 22 j 01:25	23°𐌶45'30	
retrograde	900 Jul 10 j 03:26	12°Ω28'46		evening set	901 Jun 27 j 22:06	22°𐌶24'14	
evening set	900 Jul 16 j 22:40	10°Ω29'17		min. Earth dist.	901 Jul 02 j 12:42	19°𐌶43'09	0.58299 AU
min. Earth dist.	900 Jul 20 j 17:49	7°Ω51'34	0.60353 AU	inferior conj	901 Jul 05 j 18:12	17°𐌶25'12	-4°51'12
inferior conj	900 Jul 24 j 00:49	5°Ω09'28	-4°38'00	minimum elong	901 Jul 05 j 17:58	17°𐌶25'35	4°51'11
minimum elong	900 Jul 24 j 04:21	5°Ω02'11	4°37'34	morning rise	901 Jul 13 j 16:19	13°𐌶05'26	
morning rise	900 Jul 31 j 11:59	0°Ω27'23		direct	901 Jul 16 j 04:51	12°𐌶45'20	
direct	900 Aug 02 j 22:52	0°Ω04'34		morning max el	901 Jul 24 j 13:20	16°𐌶42'20	18°45'42
morning max el	900 Aug 10 j 07:46	3°Ω40'45	18°09'23	asc. node	901 Jul 29 j 12:55	22°𐌶40'18	

	901 Aug 03 j 02:35	0°♎		min. Earth dist.	902 Jun 14 j 02:30	0°♊32'22	0.56502 AU
morning set	901 Aug 09 j 23:31	12°♎54'14			902 Jun 14 j 23:33	30°♊♐	
				inferior conj	902 Jun 16 j 15:26	28°♐57'35	-4°28'30
superior conj	901 Aug 18 j 14:39	29°♎38'07	1°42'32	minimum elong	902 Jun 16 j 10:12	29°♐05'46	4°27'45
minimum elong	901 Aug 18 j 16:34	29°♎47'12	1°42'26	morning rise	902 Jun 25 j 00:17	24°♐56'36	
	901 Aug 18 j 19:17	0°♐		direct	902 Jun 27 j 16:07	24°♐37'56	
max. Earth dist.	901 Aug 25 j 15:55	12°♐33'49	1.39339 AU	morning max el	902 Jul 07 j 09:27	29°♐08'35	19°43'10
evening rise	901 Aug 29 j 16:09	19°♐31'22			902 Jul 08 j 06:38	0°♊	
	901 Sep 05 j 00:37	0°♊		asc. node	902 Jul 16 j 09:59	11°♊03'51	
desc. node	901 Sep 06 j 13:41	2°♊27'06		morning set	902 Jul 25 j 01:41	27°♊20'15	
	901 Sep 25 j 19:27	0°♌			902 Jul 26 j 09:19	0°♌	
evening max el	901 Oct 03 j 23:10	9°♌20'05	24°11'33				
retrograde	901 Oct 15 j 02:01	15°♌51'29		superior conj	902 Aug 01 j 23:51	13°♌18'40	1°46'31
evening set	901 Oct 20 j 09:48	13°♌37'46		minimum elong	902 Aug 01 j 23:51	13°♌18'40	1°46'31
min. Earth dist.	901 Oct 25 j 03:43	8°♌09'02	0.67554 AU	max. Earth dist.	902 Aug 07 j 19:55	24°♌34'14	1.37345 AU
inferior conj	901 Oct 25 j 19:45	7°♌14'58	0°06'33		902 Aug 10 j 18:41	0°♐	
minimum elong	901 Oct 25 j 19:35	7°♌15'31	0°06'29	evening rise	902 Aug 11 j 15:19	1°♐32'54	
transit middle	901 Oct 25 j 19:35	7°♌15'31	0°06'29	desc. node	902 Aug 24 j 10:42	22°♐52'57	
transit begin	901 Oct 25 j 17:05	7°♌23'58			902 Aug 29 j 04:24	0°♊	
transit end	901 Oct 25 j 22:05	7°♌07'04		evening max el	902 Sep 16 j 11:02	22°♊58'07	25°26'32
asc. node	901 Oct 25 j 12:09	7°♌40'37		retrograde	902 Sep 28 j 12:53	29°♊54'55	
morning rise	901 Oct 31 j 05:22	1°♌09'48		evening set	902 Oct 04 j 11:14	27°♊25'25	
	901 Nov 02 j 10:19	30°♊♐		min. Earth dist.	902 Oct 08 j 21:06	22°♊31'54	0.67041 AU
direct	901 Nov 04 j 02:04	29°♊44'39		inferior conj	902 Oct 09 j 23:55	21°♊05'20	-0°49'16
	901 Nov 05 j 19:12	0°♌		minimum elong	902 Oct 10 j 01:11	21°♊01'17	0°48'44
morning max el	901 Nov 12 j 01:05	4°♌20'25	20°29'02	asc. node	902 Oct 12 j 09:12	18°♊07'54	
	901 Dec 01 j 00:24	0°♊		morning rise	902 Oct 15 j 15:18	15°♊08'02	
desc. node	901 Dec 03 j 12:59	3°♊48'25		direct	902 Oct 19 j 00:32	14°♊01'51	
morning set	901 Dec 10 j 08:39	14°♊15'42		morning max el	902 Oct 26 j 05:02	18°♊05'42	19°25'44
max. Earth dist.	901 Dec 20 j 00:22	29°♊30'38	1.43355 AU		902 Nov 04 j 11:30	0°♌	
	901 Dec 20 j 07:39	0°♋		greatest brilliancy	902 Nov 09 j 12:48	7°♌31'58	-0.7m
				morning set	902 Nov 19 j 08:06	22°♌37'22	
superior conj	901 Dec 26 j 07:08	9°♋47'10	-1°57'00	desc. node	902 Nov 20 j 10:00	24°♌17'53	
minimum elong	901 Dec 26 j 02:38	9°♋28'31	1°56'47		902 Nov 24 j 01:57	0°♊	
	902 Jan 07 j 02:32	0°♌		max. Earth dist.	902 Dec 02 j 14:22	13°♊22'00	1.44564 AU
evening rise	902 Jan 07 j 15:57	0°♌58'46					
asc. node	902 Jan 21 j 11:29	23°♌50'57		superior conj	902 Dec 06 j 02:43	18°♊57'10	-1°32'24
evening max el	902 Jan 25 j 00:39	28°♌05'05	18°08'37	minimum elong	902 Dec 05 j 18:19	18°♊23'38	1°31'37
	902 Jan 27 j 06:54	0°♋			902 Dec 12 j 23:02	0°♋	
retrograde	902 Jan 31 j 12:50	1°♋29'31		evening rise	902 Dec 20 j 08:37	12°♋12'58	
evening set	902 Feb 03 j 08:05	0°♋50'45			902 Dec 31 j 03:15	0°♌	
	902 Feb 04 j 20:14	30°♋♌		asc. node	903 Jan 08 j 08:31	11°♌13'50	
inferior conj	902 Feb 09 j 15:55	25°♌41'25	3°46'40	evening max el	903 Jan 08 j 13:06	11°♌25'35	18°24'24
minimum elong	902 Feb 09 j 16:17	25°♌40'29	3°46'39	retrograde	903 Jan 15 j 01:27	14°♌59'00	
min. Earth dist.	902 Feb 12 j 12:33	22°♌45'06	0.62309 AU	evening set	903 Jan 18 j 01:42	14°♌09'28	
morning rise	902 Feb 15 j 23:19	19°♌43'58		inferior conj	903 Jan 24 j 00:07	8°♌40'48	3°42'21
direct	902 Feb 22 j 22:27	17°♌10'00		minimum elong	903 Jan 23 j 22:46	8°♌44'41	3°42'14
desc. node	902 Mar 01 j 12:10	19°♌08'05		min. Earth dist.	903 Jan 26 j 05:37	6°♌07'17	0.64140 AU
morning max el	902 Mar 08 j 23:00	25°♌03'31	27°48'24	morning rise	903 Jan 29 j 19:16	2°♌35'19	
	902 Mar 13 j 11:48	0°♋			903 Feb 03 j 15:50	30°♊♋	
	902 Apr 02 j 14:06	0°♐		direct	903 Feb 05 j 16:50	29°♋45'44	
morning set	902 Apr 11 j 13:44	17°♐07'31			903 Feb 07 j 19:33	0°♌	
max. Earth dist.	902 Apr 17 j 05:38	28°♐59'27	1.32639 AU	desc. node	903 Feb 16 j 09:13	4°♌52'44	
	902 Apr 17 j 16:53	0°♋		morning max el	903 Feb 19 j 07:38	7°♌36'24	27°29'51
					903 Mar 08 j 14:38	0°♋	
superior conj	902 Apr 19 j 01:19	2°♋55'30	-0°04'11		903 Mar 25 j 19:28	0°♐	
minimum elong	902 Apr 19 j 01:30	2°♋56'33	0°04'09	morning set	903 Mar 26 j 08:44	1°♐05'12	
behind sun begin	902 Apr 18 j 20:30	2°♋29'23		max. Earth dist.	903 Mar 31 j 07:40	11°♐08'29	1.33400 AU
behind sun end	902 Apr 19 j 06:31	3°♋23'44					
asc. node	902 Apr 19 j 10:47	3°♋46'54		superior conj	903 Apr 03 j 07:23	17°♐26'20	-0°31'23
evening rise	902 Apr 26 j 00:26	17°♋59'09		minimum elong	903 Apr 03 j 08:55	17°♐34'31	0°31'03
	902 May 01 j 22:45	0°♐		asc. node	903 Apr 06 j 07:50	23°♐54'02	
evening max el	902 May 20 j 15:26	27°♐19'33	24°08'38		903 Apr 09 j 04:15	0°♋	
	902 May 23 j 17:17	0°♊		evening rise	903 Apr 10 j 11:54	2°♋47'26	
desc. node	902 May 28 j 11:23	2°♊55'19			903 Apr 25 j 15:18	0°♐	
retrograde	902 Jun 03 j 11:25	4°♊17'09		evening max el	903 May 02 j 06:49	7°♐52'01	22°32'53
evening set	902 Jun 07 j 22:52	3°♊32'42		retrograde	903 May 15 j 08:59	14°♐20'45	

desc. node	903 May 15 j 08:25	14° Π 20'45		evening set	904 Apr 27 j 04:22	24° \mathcal{B} 11'45	
evening set	903 May 18 j 10:59	13° Π 59'51		desc. node	904 May 01 j 05:28	22° \mathcal{B} 57'21	
min. Earth dist.	903 May 26 j 14:29	10° Π 27'49	0.55297 AU	inferior conj	904 May 06 j 12:35	20° \mathcal{B} 13'06	-1°31'19
inferior conj	903 May 27 j 18:32	9° Π 47'58	-3°19'43	minimum elong	904 May 06 j 08:17	20° \mathcal{B} 19'10	1°29'48
minimum elong	903 May 27 j 10:58	9° Π 58'44	3°17'37	min. Earth dist.	904 May 07 j 03:07	19° \mathcal{B} 52'33	0.54959 AU
morning rise	903 Jun 05 j 13:05	5° Π 55'22		morning rise	904 May 15 j 12:12	16° \mathcal{B} 10'02	
direct	903 Jun 08 j 09:59	5° Π 36'27		direct	904 May 18 j 19:39	15° \mathcal{B} 46'21	
morning max el	903 Jun 19 j 18:29	10° Π 53'11	21°01'07	morning max el	904 May 31 j 17:01	21° \mathcal{B} 55'41	22°35'30
asc. node	903 Jul 03 j 07:03	0° \mathcal{E} 03'46			904 Jun 07 j 16:21	0° Π	
	903 Jul 03 j 06:14	0° \mathcal{E}		asc. node	904 Jun 19 j 04:06	19° Π 30'01	
morning set	903 Jul 09 j 09:03	12° \mathcal{E} 03'14		morning set	904 Jun 22 j 19:31	26° Π 56'04	
					904 Jun 24 j 06:28	0° \mathcal{E}	
superior conj	903 Jul 16 j 19:56	27° \mathcal{E} 33'04	1°42'39	superior conj	904 Jun 29 j 23:25	12° \mathcal{E} 09'52	1°32'34
minimum elong	903 Jul 16 j 18:32	27° \mathcal{E} 25'49	1°42'36	minimum elong	904 Jun 29 j 21:12	11° \mathcal{E} 58'06	1°32'21
	903 Jul 18 j 00:37	0° \mathcal{Q}		max. Earth dist.	904 Jul 02 j 23:28	18° \mathcal{E} 27'58	1.34164 AU
max. Earth dist.	903 Jul 21 j 05:20	6° \mathcal{Q} 25'34	1.35579 AU	evening rise	904 Jul 07 j 19:35	28° \mathcal{E} 14'14	
evening rise	903 Jul 25 j 10:04	14° \mathcal{Q} 31'45			904 Jul 08 j 17:17	0° \mathcal{Q}	
	903 Aug 03 j 02:46	0° \mathcal{P}			904 Jul 26 j 07:22	0° \mathcal{P}	
desc. node	903 Aug 11 j 07:43	13° \mathcal{P} 01'36		desc. node	904 Jul 28 j 04:45	2° \mathcal{P} 44'51	
	903 Aug 23 j 21:09	0° \mathcal{L}		evening max el	904 Aug 11 j 10:47	20° \mathcal{P} 02'42	27°10'43
evening max el	903 Aug 29 j 22:57	6° \mathcal{L} 35'13	26°28'44	retrograde	904 Aug 24 j 19:14	27° \mathcal{P} 21'38	
retrograde	903 Sep 11 j 18:43	13° \mathcal{L} 47'29		evening set	904 Aug 31 j 18:24	24° \mathcal{P} 36'36	
evening set	903 Sep 18 j 06:54	11° \mathcal{L} 06'22		min. Earth dist.	904 Sep 04 j 13:56	20° \mathcal{P} 56'24	0.64971 AU
min. Earth dist.	903 Sep 22 j 09:15	6° \mathcal{L} 49'38	0.66188 AU	inferior conj	904 Sep 06 j 17:05	18° \mathcal{P} 33'56	-2°42'50
inferior conj	903 Sep 23 j 23:46	4° \mathcal{L} 53'03	-1°46'25	minimum elong	904 Sep 06 j 21:14	18° \mathcal{P} 22'22	2°41'22
minimum elong	903 Sep 24 j 02:32	4° \mathcal{L} 44'39	1°45'19	morning rise	904 Sep 13 j 00:54	13° \mathcal{P} 01'25	
	903 Sep 28 j 14:56	30° \mathcal{R} \mathcal{P}		asc. node	904 Sep 15 j 03:18	12° \mathcal{P} 24'28	
asc. node	903 Sep 29 j 06:16	29° \mathcal{P} 31'57		direct	904 Sep 15 j 17:50	12° \mathcal{P} 22'30	
morning rise	903 Sep 29 j 22:37	29° \mathcal{P} 06'35		morning max el	904 Sep 22 j 06:11	15° \mathcal{P} 52'22	18°06'39
direct	903 Oct 02 j 22:31	28° \mathcal{P} 15'53			904 Oct 02 j 09:44	0° \mathcal{L}	
	903 Oct 07 j 09:47	0° \mathcal{L}		morning set	904 Oct 10 j 07:56	13° \mathcal{L} 06'20	
morning max el	903 Oct 09 j 15:32	1° \mathcal{L} 58'06	18°37'52		904 Oct 20 j 14:55	0° \mathcal{M}	
	903 Oct 28 j 21:11	0° \mathcal{M}		superior conj	904 Oct 24 j 10:27	6° \mathcal{M} 07'01	-0°01'48
morning set	903 Oct 30 j 05:31	2° \mathcal{M} 08'56		minimum elong	904 Oct 24 j 10:14	6° \mathcal{M} 06'10	0°01'46
desc. node	903 Nov 07 j 07:00	14° \mathcal{M} 56'40		behind sun begin	904 Oct 23 j 23:32	5° \mathcal{M} 23'27	
superior conj	903 Nov 15 j 04:55	27° \mathcal{M} 24'00	-0°50'48	behind sun end	904 Oct 24 j 20:57	6° \mathcal{M} 48'51	
minimum elong	903 Nov 14 j 22:28	26° \mathcal{M} 58'40	0°49'59	desc. node	904 Oct 24 j 04:01	5° \mathcal{M} 41'19	
max. Earth dist.	903 Nov 15 j 08:31	27° \mathcal{M} 38'09	1.45074 AU	max. Earth dist.	904 Oct 28 j 03:12	11° \mathcal{M} 58'51	1.44844 AU
	903 Nov 16 j 20:37	0° \mathcal{A}			904 Nov 08 j 16:05	0° \mathcal{A}	
evening rise	903 Dec 01 j 01:55	22° \mathcal{A} 28'59		evening rise	904 Nov 09 j 21:20	1° \mathcal{A} 53'19	
	903 Dec 05 j 18:59	0° \mathcal{B}		greatest brilliancy	904 Nov 23 j 03:08	22° \mathcal{A} 09'46	-0.7m
greatest brilliancy	903 Dec 09 j 07:15	5° \mathcal{B} 34'56	-0.8m		904 Nov 28 j 12:49	0° \mathcal{B}	
evening max el	903 Dec 22 j 23:28	24° \mathcal{B} 51'28	18°58'03	evening max el	904 Dec 05 j 05:47	8° \mathcal{B} 19'48	19°48'01
asc. node	903 Dec 26 j 05:33	27° \mathcal{B} 34'51		asc. node	904 Dec 12 j 02:35	12° \mathcal{B} 39'18	
retrograde	903 Dec 29 j 19:59	28° \mathcal{B} 44'37		retrograde	904 Dec 12 j 17:18	12° \mathcal{B} 41'25	
evening set	904 Jan 02 j 02:09	27° \mathcal{B} 43'17		evening set	904 Dec 16 j 06:58	11° \mathcal{B} 26'49	
inferior conj	904 Jan 07 j 17:59	21° \mathcal{B} 57'38	3°22'59	inferior conj	904 Dec 21 j 18:32	5° \mathcal{B} 27'02	2°52'30
minimum elong	904 Jan 07 j 15:37	22° \mathcal{B} 05'01	3°22'33	minimum elong	904 Dec 21 j 15:49	5° \mathcal{B} 36'02	2°51'46
min. Earth dist.	904 Jan 09 j 08:09	19° \mathcal{B} 58'25	0.65606 AU	min. Earth dist.	904 Dec 22 j 18:43	4° \mathcal{B} 06'57	0.66678 AU
morning rise	904 Jan 13 j 04:48	15° \mathcal{B} 47'17			904 Dec 26 j 05:20	30° \mathcal{R} \mathcal{A}	
direct	904 Jan 19 j 17:50	12° \mathcal{B} 56'23		morning rise	904 Dec 27 j 00:26	29° \mathcal{A} 14'10	
morning max el	904 Feb 01 j 17:31	20° \mathcal{B} 34'16	26°40'03	direct	905 Jan 02 j 00:48	26° \mathcal{A} 33'37	
desc. node	904 Feb 03 j 06:15	22° \mathcal{B} 09'33			905 Jan 09 j 22:42	0° \mathcal{B}	
	904 Feb 09 j 21:12	0° \approx		morning max el	905 Jan 14 j 02:33	3° \mathcal{B} 44'49	25°27'28
	904 Feb 29 j 17:20	0° \mathcal{H}		desc. node	905 Jan 20 j 03:15	10° \mathcal{B} 31'52	
morning set	904 Mar 08 j 16:37	14° \mathcal{H} 25'19			905 Feb 03 j 04:36	0° \approx	
max. Earth dist.	904 Mar 12 j 23:00	22° \mathcal{H} 43'16	1.34611 AU	morning set	905 Feb 19 j 08:48	26° \approx 54'44	
	904 Mar 16 j 13:15	0° \mathcal{Y}			905 Feb 21 j 01:17	0° \mathcal{H}	
superior conj	904 Mar 17 j 07:33	1° \mathcal{Y} 34'25	-0°58'35	max. Earth dist.	905 Feb 23 j 02:30	3° \mathcal{H} 49'38	1.36267 AU
minimum elong	904 Mar 17 j 10:25	1° \mathcal{Y} 49'13	0°58'04	superior conj	905 Feb 28 j 23:10	15° \mathcal{H} 12'25	-1°24'09
asc. node	904 Mar 23 j 04:52	13° \mathcal{Y} 53'17		minimum elong	905 Mar 01 j 03:01	15° \mathcal{H} 31'35	1°23'36
evening rise	904 Mar 24 j 21:10	17° \mathcal{Y} 23'19			905 Mar 08 j 06:20	0° \mathcal{Y}	
	904 Mar 31 j 05:57	0° \mathcal{B}		evening rise	905 Mar 09 j 02:10	1° \mathcal{Y} 40'38	
evening max el	904 Apr 13 j 05:36	18° \mathcal{B} 41'49	21°03'53	asc. node	905 Mar 10 j 01:54	3° \mathcal{Y} 40'23	
retrograde	904 Apr 24 j 22:43	24° \mathcal{B} 23'27					

evening max el	905 Mar 26 j 15:47	0°8'08"20	19°50'29"	asc. node	906 Feb 24 j 22:57	23°8'09"44	
	905 Mar 26 j 12:21	0°8'			906 Feb 28 j 17:08	0°9'	
retrograde	905 Apr 05 j 15:25	4°8'56"33		evening max el	906 Mar 09 j 12:54	12°9'13"24	18°56'21"
evening set	905 Apr 07 j 17:00	4°8'45"08		retrograde	906 Mar 17 j 22:51	16°9'17"44	
inferior conj	905 Apr 16 j 12:08	0°8'43"59	0°27'26"	evening set	906 Mar 20 j 04:44	16°9'01"33	
minimum elong	905 Apr 16 j 13:20	0°8'42"08	0°27'00"	inferior conj	906 Mar 28 j 04:48	11°9'45"17	2°05'09"
	905 Apr 17 j 16:37	30°8'9"		minimum elong	906 Mar 28 j 08:52	11°9'38"03	2°03'58"
desc. node	905 Apr 18 j 02:29	29°9'44"51		min. Earth dist.	906 Mar 31 j 09:17	9°9'30"22	0.57039 AU
min. Earth dist.	905 Apr 18 j 17:16	29°9'22"22	0.55589 AU	desc. node	906 Apr 04 j 23:30	6°9'51"53	
morning rise	905 Apr 25 j 07:19	26°9'12"45		morning rise	906 Apr 05 j 09:56	6°9'40"45	
direct	905 Apr 29 j 11:27	25°9'34"11		direct	906 Apr 10 j 16:33	5°9'34"15	
	905 May 10 j 11:37	0°8'		morning max el	906 Apr 24 j 23:38	12°9'59"49	25°51'30"
morning max el	905 May 13 j 08:48	2°8'29"33	24°16'58"		906 May 08 j 07:02	0°8'	
	905 Jun 01 j 09:37	0°11'		morning set	906 May 22 j 18:53	26°8'49"41	
asc. node	905 Jun 06 j 01:08	9°11'15"29		asc. node	906 May 23 j 22:12	29°8'14"30	
morning set	905 Jun 07 j 07:20	11°11'53"16			906 May 24 j 06:43	0°11'	
superior conj	905 Jun 14 j 07:40	27°11'00"38	1°17'29"	superior conj	906 May 29 j 18:37	11°11'58"27	0°58'21"
minimum elong	905 Jun 14 j 05:13	26°11'47"21	1°17'07"	minimum elong	906 May 29 j 16:25	11°11'46"24	0°57'56"
	905 Jun 15 j 16:54	0°8'		max. Earth dist.	906 May 30 j 12:12	13°11'34"48	1.32521 AU
max. Earth dist.	905 Jun 16 j 02:32	0°8'51"48	1.33147 AU	evening rise	906 Jun 05 j 19:26	27°11'04"53	
evening rise	905 Jun 21 j 15:47	12°8'28"38			906 Jun 07 j 05:31	0°8'	
	905 Jun 30 j 22:00	0°8'			906 Jun 24 j 07:46	0°8'	
desc. node	905 Jul 15 j 01:47	21°8'51"53		desc. node	906 Jul 01 j 22:48	10°8'07"35	
	905 Jul 21 j 19:01	0°8'		evening max el	906 Jul 07 j 04:08	15°8'42"36	27°08'50"
evening max el	905 Jul 24 j 21:19	3°8'09"23	27°25'44"	retrograde	906 Jul 21 j 01:23	22°8'58"10	
retrograde	905 Aug 07 j 13:48	10°8'28"10		evening set	906 Jul 28 j 03:19	20°8'41"19	
evening set	905 Aug 14 j 18:32	7°8'50"33		min. Earth dist.	906 Jul 31 j 18:23	17°8'56"48	0.61524 AU
min. Earth dist.	905 Aug 18 j 09:19	4°8'42"55	0.63399 AU	inferior conj	906 Aug 03 j 21:15	15°8'10"36	-4°19'28"
inferior conj	905 Aug 21 j 01:17	2°8'02"16	-3°35'28"	minimum elong	906 Aug 04 j 01:52	15°8'00"17	4°18'37"
minimum elong	905 Aug 21 j 06:16	1°8'49"41	3°34'04"	morning rise	906 Aug 11 j 02:00	10°8'15"17	
	905 Aug 23 j 03:29	30°8'8'		direct	906 Aug 13 j 12:50	9°8'50"10	
morning rise	905 Aug 27 j 19:13	26°8'46"45		asc. node	906 Aug 19 j 21:24	12°8'44"26	
direct	905 Aug 30 j 07:44	26°8'16"10		morning max el	906 Aug 20 j 12:32	13°8'19"51	17°57'45"
asc. node	905 Sep 02 j 00:21	26°8'51"38			906 Aug 31 j 19:39	0°8'	
morning max el	905 Sep 05 j 22:10	29°8'41"52	17°52'55"	morning set	906 Sep 05 j 10:30	8°8'22"41	
	905 Sep 06 j 05:20	0°8'		superior conj	906 Sep 15 j 20:22	27°8'05"51	1°15'30"
morning set	905 Sep 22 j 11:39	25°8'16"47		minimum elong	906 Sep 16 j 01:01	27°8'26"09	1°14'58"
	905 Sep 25 j 04:41	0°8'			906 Sep 17 j 12:34	0°8'	
superior conj	905 Oct 04 j 13:42	15°8'55"49	0°42'35"	max. Earth dist.	906 Sep 23 j 08:05	9°8'48"08	1.42414 AU
minimum elong	905 Oct 04 j 17:48	16°8'12"46	0°42'02"	desc. node	906 Sep 27 j 22:06	17°8'15"05	
max. Earth dist.	905 Oct 10 j 19:42	26°8'07"03	1.43919 AU	evening rise	906 Sep 29 j 18:44	20°8'12"34	
desc. node	905 Oct 11 j 01:02	26°8'28"27			906 Oct 06 j 02:11	0°8'	
	905 Oct 13 j 06:07	0°8'			906 Oct 27 j 09:02	0°8'	
evening rise	905 Oct 20 j 05:07	10°8'52"48		evening max el	906 Nov 01 j 02:11	5°8'19"30	22°06'03"
	905 Nov 01 j 20:56	0°8'		retrograde	906 Nov 10 j 11:10	10°8'53"57	
evening max el	905 Nov 18 j 06:46	21°8'48"54	20°51'55"	evening set	906 Nov 14 j 21:47	9°8'07"32	
retrograde	905 Nov 26 j 14:57	26°8'45"13		asc. node	906 Nov 15 j 20:39	8°8'16"30	
asc. node	905 Nov 28 j 23:37	26°8'13"49		inferior conj	906 Nov 20 j 06:10	2°8'49"06	1°28'01"
evening set	905 Nov 30 j 14:05	25°8'15"35		minimum elong	906 Nov 20 j 04:17	2°8'55"37	1°27'17"
inferior conj	905 Dec 05 j 23:16	19°8'04"48	2°13'31"	min. Earth dist.	906 Nov 20 j 06:38	2°8'47"28	0.67712 AU
minimum elong	905 Dec 05 j 20:44	19°8'13"26	2°12'41"		906 Nov 22 j 08:12	30°8'8'	
min. Earth dist.	905 Dec 06 j 10:59	18°8'24"39	0.67372 AU	morning rise	906 Nov 25 j 10:38	26°8'37"19	
morning rise	905 Dec 11 j 03:12	12°8'51"27		direct	906 Nov 30 j 05:11	24°8'37"19	
direct	905 Dec 16 j 12:52	10°8'29"12			906 Dec 09 j 13:00	0°8'	
morning max el	905 Dec 27 j 10:50	16°8'59"55	24°02'09"	morning max el	906 Dec 09 j 21:14	0°8'20"33	22°34'06"
desc. node	906 Jan 07 j 00:16	29°8'40"12		desc. node	906 Dec 24 j 21:20	19°8'21"49	
	906 Jan 07 j 06:10	0°8'			907 Jan 01 j 03:14	0°8'	
	906 Jan 27 j 05:29	0°8'		morning set	907 Jan 12 j 18:02	18°8'14"59	
morning set	906 Feb 01 j 03:15	8°8'16"02		max. Earth dist.	907 Jan 17 j 18:08	26°8'35"49	1.40421 AU
max. Earth dist.	906 Feb 04 j 22:02	14°8'54"09	1.38277 AU		907 Jan 19 j 17:47	0°8'	
superior conj	906 Feb 12 j 02:38	28°8'10"21	-1°45'44"	superior conj	907 Jan 25 j 13:25	10°8'16"48	-2°00'02"
minimum elong	906 Feb 12 j 06:35	28°8'29"11	1°45'22"	minimum elong	907 Jan 25 j 15:48	10°8'27"37	1°59'56"
	906 Feb 13 j 01:36	0°8'		evening rise	907 Feb 04 j 12:41	28°8'49"44	
evening rise	906 Feb 21 j 00:20	15°8'31"52			907 Feb 05 j 03:34	0°8'	

asc. node	907 Feb 11 j 19:59	12° K 15'05		asc. node	908 Jan 29 j 17:01	0° K 48'56	
evening max el	907 Feb 20 j 18:12	24° K 50'01	18°22'16	evening max el	908 Feb 04 j 04:35	7° K 49'52	18°08'00
retrograde	907 Feb 28 j 01:30	28° K 26'55		retrograde	908 Feb 10 j 20:55	11° K 15'11	
evening set	907 Mar 02 j 12:58	28° K 03'04		evening set	908 Feb 13 j 13:19	10° K 42'13	
inferior conj	907 Mar 09 j 18:39	23° K 26'17	3°08'42	inferior conj	908 Feb 20 j 04:03	5° K 44'24	3°40'14
minimum elong	907 Mar 09 j 22:14	23° K 18'49	3°08'01	minimum elong	908 Feb 20 j 05:37	5° K 40'36	3°40'06
min. Earth dist.	907 Mar 13 j 05:06	20° K 36'15	0.59000 AU	min. Earth dist.	908 Feb 23 j 07:49	2° K 43'28	0.61121 AU
morning rise	907 Mar 17 j 04:59	17° K 54'01		morning rise	908 Feb 26 j 20:17	29° \approx 53'35	
desc. node	907 Mar 22 j 20:32	16° K 12'00			908 Feb 26 j 16:29	30° K \approx	
direct	907 Mar 23 j 10:36	16° K 11'05		direct	908 Mar 04 j 15:48	27° \approx 35'33	
morning max el	907 Apr 06 j 18:50	23° K 53'35	27°03'54	desc. node	908 Mar 08 j 17:34	28° \approx 20'50	
	907 Apr 12 j 07:24	0° Y			908 Mar 12 j 02:49	0° K	
	907 May 01 j 08:50	0° B		morning max el	908 Mar 18 j 20:33	5° K 27'26	27°43'00
morning set	907 May 07 j 04:30	11° B 38'53			908 Apr 06 j 05:26	0° Y	
asc. node	907 May 10 j 19:15	19° B 21'25		morning set	908 Apr 20 j 10:18	26° Y 14'32	
					908 Apr 22 j 05:41	0° B	
superior conj	907 May 14 j 06:24	26° B 56'18	0°35'57	max. Earth dist.	908 Apr 26 j 12:22	9° B 10'19	1.32388 AU
minimum elong	907 May 14 j 04:52	26° B 47'56	0°35'38	asc. node	908 Apr 26 j 16:20	9° B 31'54	
max. Earth dist.	907 May 14 j 00:47	26° B 25'28	1.32268 AU				
	907 May 15 j 15:48	0° II		superior conj	908 Apr 27 j 17:21	11° B 48'29	0°11'02
evening rise	907 May 21 j 03:51	11° II 53'29		minimum elong	908 Apr 27 j 16:51	11° B 45'43	0°10'56
	907 May 30 j 10:02	0° B		behind sun begin	908 Apr 27 j 13:09	11° B 25'29	
desc. node	907 Jun 18 j 19:51	27° B 09'46		behind sun end	908 Apr 27 j 20:33	12° B 05'57	
evening max el	907 Jun 19 j 04:32	27° B 30'39	26°18'56	evening rise	908 May 04 j 14:55	26° B 47'05	
	907 Jun 22 j 00:45	0° Q			908 May 06 j 03:42	0° II	
retrograde	907 Jul 03 j 04:31	4° Q 43'02			908 May 23 j 12:01	0° B	
evening set	907 Jul 09 j 16:01	2° Q 59'09		evening max el	908 May 30 j 21:55	8° B 33'31	25°01'17
min. Earth dist.	907 Jul 13 j 17:27	0° Q 22'24	0.59476 AU	desc. node	908 Jun 04 j 16:51	12° B 28'46	
	907 Jul 14 j 05:25	30° K B		retrograde	908 Jun 13 j 21:42	15° B 40'15	
inferior conj	907 Jul 17 j 01:19	27° B 48'15	-4°47'04	evening set	908 Jun 19 j 05:25	14° B 35'15	
minimum elong	907 Jul 17 j 03:32	27° B 43'56	4°46'56	min. Earth dist.	908 Jun 24 j 09:25	11° B 47'55	0.57489 AU
morning rise	907 Jul 24 j 17:09	23° B 15'37		inferior conj	908 Jun 27 j 10:12	9° B 46'00	-4°46'44
direct	907 Jul 27 j 04:42	22° B 53'59		minimum elong	908 Jun 27 j 07:51	9° B 49'59	4°46'35
morning max el	907 Aug 03 j 22:10	26° B 37'14	18°22'15	morning rise	908 Jul 05 j 13:00	5° B 35'25	
asc. node	907 Aug 06 j 18:27	29° B 47'02		direct	908 Jul 08 j 02:51	5° B 16'05	
	907 Aug 06 j 22:32	0° Q		morning max el	908 Jul 17 j 00:04	9° B 25'14	19°07'33
morning set	907 Aug 19 j 22:56	22° Q 07'37		asc. node	908 Jul 23 j 15:31	17° B 44'52	
	907 Aug 24 j 01:54	0° M			908 Jul 30 j 14:56	0° Q	
				morning set	908 Aug 02 j 20:57	6° Q 20'54	
superior conj	907 Aug 29 j 03:02	9° M 26'50	1°35'54				
minimum elong	907 Aug 29 j 06:08	9° M 41'06	1°35'40	superior conj	908 Aug 11 j 04:05	22° Q 42'59	1°45'17
max. Earth dist.	907 Sep 05 j 15:08	22° M 48'03	1.40515 AU	minimum elong	908 Aug 11 j 05:08	22° Q 48'06	1°45'16
	907 Sep 09 j 21:30	0° A			908 Aug 15 j 00:09	0° M	
evening rise	907 Sep 10 j 04:06	0° A 27'17		max. Earth dist.	908 Aug 17 j 18:27	5° M 04'39	1.38477 AU
desc. node	907 Sep 14 j 19:09	7° A 57'00		evening rise	908 Aug 21 j 13:57	11° M 50'45	
	907 Sep 29 j 13:04	0° M		desc. node	908 Aug 31 j 16:11	28° M 30'07	
evening max el	907 Oct 14 j 16:57	18° M 52'08	23°25'39		908 Sep 01 j 15:16	0° A	
retrograde	907 Oct 25 j 04:37	25° M 04'11			908 Sep 23 j 20:06	0° M	
evening set	907 Oct 30 j 04:25	23° M 00'09		evening max el	908 Sep 26 j 05:03	2° M 27'43	24°44'26
asc. node	907 Nov 02 j 17:41	19° M 05'19		retrograde	908 Oct 07 j 18:15	9° M 11'39	
min. Earth dist.	907 Nov 04 j 03:17	17° M 12'23	0.67708 AU	evening set	908 Oct 13 j 08:16	6° M 50'36	
inferior conj	907 Nov 04 j 13:24	16° M 37'44	0°37'27	min. Earth dist.	908 Oct 17 j 22:34	1° M 36'45	0.67376 AU
minimum elong	907 Nov 04 j 12:32	16° M 40'43	0°37'04	inferior conj	908 Oct 18 j 19:12	0° M 28'15	-0°16'52
morning rise	907 Nov 09 j 20:35	10° M 29'39		minimum elong	908 Oct 18 j 19:37	0° M 26'52	0°16'42
direct	907 Nov 14 j 00:47	8° M 52'26			908 Oct 19 j 03:43	30° K A	
morning max el	907 Nov 22 j 13:19	13° M 50'31	21°11'39	asc. node	908 Oct 19 j 14:44	29° A 23'50	
	907 Dec 05 j 06:40	0° A		morning rise	908 Oct 24 j 07:04	24° A 26'15	
desc. node	907 Dec 11 j 18:24	9° A 27'24		direct	908 Oct 27 j 22:32	23° A 09'46	
morning set	907 Dec 23 j 04:46	26° A 56'19		morning max el	908 Nov 04 j 12:59	27° A 30'54	20°00'18
	907 Dec 25 j 03:19	0° B			908 Nov 06 j 19:36	0° M	
max. Earth dist.	907 Dec 30 j 20:47	9° B 13'44	1.42397 AU	desc. node	908 Nov 27 j 15:26	29° M 49'40	
					908 Nov 27 j 18:08	0° A	
superior conj	908 Jan 07 j 02:11	21° B 19'22	-2°02'40	morning set	908 Dec 01 j 01:04	5° A 03'49	
minimum elong	908 Jan 07 j 00:42	21° B 13'01	2°02'38	max. Earth dist.	908 Dec 12 j 06:40	22° A 41'03	1.43942 AU
	908 Jan 12 j 01:58	0° \approx			908 Dec 16 j 19:42	0° B	
evening rise	908 Jan 18 j 11:30	11° \approx 26'33					
	908 Jan 29 j 04:17	0° K		superior conj	908 Dec 17 j 12:37	1° B 08'51	-1°48'54

minimum elong	908 Dec 17 j 06:01	0° Z 41'58	1°48'27		909 Dec 09 j 11:48	0° Z	
evening rise	908 Dec 30 j 16:25	23° Z 13'01		evening rise	909 Dec 11 j 23:21	4° Z 02'36	
	909 Jan 03 j 15:11	0° \approx			909 Dec 28 j 11:15	0° \approx	
asc. node	909 Jan 15 j 14:03	18° \approx 41'06		evening max el	910 Jan 01 j 04:55	4° \approx 28'16	18°36'37
evening max el	909 Jan 17 j 17:02	21° \approx 04'32	18°13'03	asc. node	910 Jan 02 j 11:05	5° \approx 39'43	
retrograde	909 Jan 24 j 04:27	24° \approx 31'43		retrograde	910 Jan 07 j 19:53	8° \approx 08'46	
evening set	909 Jan 27 j 01:36	23° \approx 48'39		evening set	910 Jan 10 j 22:27	7° \approx 14'29	
inferior conj	909 Feb 02 j 05:03	18° \approx 30'55	3°46'59	inferior conj	910 Jan 16 j 17:47	1° \approx 38'35	3°35'40
minimum elong	909 Feb 02 j 04:37	18° \approx 32'07	3°46'58	minimum elong	910 Jan 16 j 15:55	1° \approx 44'09	3°35'25
min. Earth dist.	909 Feb 04 j 19:30	15° \approx 42'07	0.63121 AU		910 Jan 18 j 02:41	30° R Z	
morning rise	909 Feb 08 j 06:42	12° \approx 29'14		min. Earth dist.	910 Jan 18 j 16:48	29° Z 18'22	0.64817 AU
direct	909 Feb 15 j 06:05	9° \approx 46'38		morning rise	910 Jan 22 j 08:56	25° Z 30'42	
desc. node	909 Feb 23 j 14:37	12° \approx 56'44		direct	910 Jan 29 j 03:42	22° Z 38'32	
morning max el	909 Mar 01 j 03:24	17° \approx 40'58	27°44'47	desc. node	910 Feb 10 j 11:39	29° Z 24'15	
	909 Mar 11 j 10:55	0° H			910 Feb 11 j 02:25	0° \approx	
	909 Mar 30 j 00:10	0° Y		morning max el	910 Feb 11 j 12:42	0° \approx 25'33	27°11'52
morning set	909 Apr 04 j 10:01	10° Y 28'17			910 Mar 05 j 10:50	0° H	
max. Earth dist.	909 Apr 09 j 18:45	21° Y 34'18	1.32904 AU	morning set	910 Mar 19 j 00:43	24° H 11'07	
					910 Mar 21 j 23:20	0° Y	
superior conj	909 Apr 12 j 01:43	26° Y 28'27	-0°15'39	max. Earth dist.	910 Mar 23 j 16:14	3° Y 27'22	1.33858 AU
minimum elong	909 Apr 12 j 02:28	26° Y 32'31	0°15'28				
behind sun begin	909 Apr 12 j 01:15	26° Y 25'57		superior conj	910 Mar 27 j 05:33	10° Y 50'21	-0°43'01
behind sun end	909 Apr 12 j 03:41	26° Y 39'05		minimum elong	910 Mar 27 j 07:40	11° Y 01'30	0°42'35
asc. node	909 Apr 13 j 13:22	29° Y 41'05		asc. node	910 Mar 31 j 10:24	19° Y 45'11	
	909 Apr 13 j 16:52	0° B		evening rise	910 Apr 03 j 13:27	26° Y 21'42	
evening rise	909 Apr 19 j 02:43	11° B 38'24			910 Apr 05 j 07:35	0° B	
	909 Apr 28 j 12:27	0° II		evening max el	910 Apr 24 j 05:50	29° B 44'49	21°53'33
evening max el	909 May 12 j 11:58	19° II 08'09	23°27'53		910 Apr 24 j 12:11	0° II	
desc. node	909 May 22 j 13:51	25° II 28'11		retrograde	910 May 06 j 19:41	5° II 54'47	
retrograde	909 May 26 j 02:46	25° II 56'41		evening set	910 May 09 j 10:45	5° II 39'24	
evening set	909 May 29 j 22:51	25° II 24'19		desc. node	910 May 09 j 10:52	5° II 39'20	
min. Earth dist.	909 Jun 05 j 22:15	22° II 11'45	0.55891 AU	inferior conj	910 May 18 j 20:38	1° II 35'25	-2°37'13
inferior conj	909 Jun 07 j 23:01	20° II 59'12	-4°05'11	minimum elong	910 May 18 j 13:50	1° II 44'58	2°35'04
minimum elong	909 Jun 07 j 16:12	21° II 09'24	4°03'47	min. Earth dist.	910 May 18 j 10:33	1° II 49'33	0.55033 AU
morning rise	909 Jun 16 j 12:15	17° II 03'37			910 May 21 j 18:29	30° R B	
direct	909 Jun 19 j 05:35	16° II 45'21		morning rise	910 May 27 j 18:08	27° B 40'27	
morning max el	909 Jun 29 j 15:38	21° II 34'37	20°14'00	direct	910 May 30 j 18:35	27° B 20'14	
	909 Jul 06 j 13:53	0° E			910 Jun 08 j 00:31	0° II	
asc. node	909 Jul 10 j 12:35	6° E 25'07		morning max el	910 Jun 11 j 19:49	2° II 59'57	21°39'44
morning set	909 Jul 18 j 01:35	20° E 54'48		asc. node	910 Jun 27 j 09:38	25° II 37'04	
	909 Jul 22 j 11:54	0° Ω			910 Jun 29 j 15:23	0° E	
				morning set	910 Jul 02 j 10:29	5° E 42'18	
superior conj	909 Jul 25 j 18:23	6° Ω 39'37	1°45'44				
minimum elong	909 Jul 25 j 17:43	6° Ω 36'15	1°45'44	superior conj	910 Jul 09 j 17:56	21° E 04'19	1°39'04
max. Earth dist.	909 Jul 30 j 23:38	16° Ω 56'17	1.36553 AU	minimum elong	910 Jul 09 j 16:07	20° E 54'47	1°38'56
evening rise	909 Aug 03 j 22:02	24° Ω 18'37		max. Earth dist.	910 Jul 13 j 12:29	28° E 49'58	1.34927 AU
	909 Aug 07 j 02:04	0° H			910 Jul 14 j 02:23	0° Ω	
desc. node	909 Aug 18 j 13:11	18° Ω 49'38		evening rise	910 Jul 17 j 23:36	7° Ω 37'39	
	909 Aug 26 j 05:56	0° Ω			910 Jul 30 j 16:48	0° H	
evening max el	909 Sep 08 j 16:44	16° Ω 06'14	25°55'01	desc. node	910 Aug 05 j 10:11	8° H 48'35	
retrograde	909 Sep 21 j 03:15	23° Ω 11'38		evening max el	910 Aug 22 j 04:55	29° H 41'25	26°49'38
evening set	909 Sep 27 j 07:32	20° Ω 36'34			910 Aug 22 j 12:42	0° Ω	
min. Earth dist.	909 Oct 01 j 14:08	15° Ω 58'22	0.66716 AU	retrograde	910 Sep 04 j 06:52	6° Ω 57'14	
inferior conj	909 Oct 02 j 21:48	14° Ω 18'33	-1°13'28	evening set	910 Sep 11 j 00:03	4° Ω 13'40	
minimum elong	909 Oct 02 j 23:41	14° Ω 12'34	1°12'40	min. Earth dist.	910 Sep 14 j 23:29	0° Ω 12'24	0.65712 AU
asc. node	909 Oct 06 j 11:46	10° Ω 10'08			910 Sep 15 j 03:46	30° R H	
morning rise	909 Oct 08 j 16:09	8° Ω 25'21		inferior conj	910 Sep 16 j 19:10	28° H 04'23	-2°10'36
direct	909 Oct 11 j 21:02	7° Ω 26'19		minimum elong	910 Sep 16 j 22:33	27° H 54'27	2°09'18
morning max el	909 Oct 18 j 19:58	11° Ω 20'11	19°03'20	morning rise	910 Sep 22 j 21:38	22° H 23'08	
	909 Nov 01 j 10:44	0° M		asc. node	910 Sep 23 j 08:49	22° H 09'39	
morning set	909 Nov 10 j 07:56	13° M 50'20		direct	910 Sep 25 j 18:17	21° H 37'49	
desc. node	909 Nov 14 j 12:27	20° M 23'52		morning max el	910 Oct 02 j 08:28	25° H 13'51	18°22'27
	909 Nov 20 j 15:32	0° X			910 Oct 06 j 08:27	0° Ω	
max. Earth dist.	909 Nov 24 j 22:16	6° X 43'34	1.44869 AU	morning set	910 Oct 21 j 17:45	23° Ω 59'13	
					910 Oct 25 j 11:00	0° M	
superior conj	909 Nov 26 j 22:59	9° X 55'44	-1°16'26	desc. node	910 Nov 01 j 09:28	11° M 05'35	
minimum elong	909 Nov 26 j 14:34	9° X 22'29	1°15'31				

superior conj	910 Nov 05 j 23:47	18°♄21'43	-0°30'09	desc. node	911 Oct 19 j 06:30	1°♄51'44	
minimum elong	910 Nov 05 j 19:51	18°♄06'12	0°29'37	max. Earth dist.	911 Oct 21 j 11:46	5°♄23'57	1.44540 AU
max. Earth dist.	910 Nov 07 j 17:06	21°♄04'17	1.45074 AU	evening rise	911 Nov 01 j 19:24	23°♄04'22	
	910 Nov 13 j 09:41	0°♄			911 Nov 06 j 07:47	0°♄	
evening rise	910 Nov 22 j 06:39	13°♄54'38		greatest brilliancy	911 Nov 15 j 19:25	14°♄17'07	-0.6m
	910 Dec 02 j 13:29	0°♄			911 Nov 27 j 10:37	0°♄	
greatest brilliancy	910 Dec 02 j 21:41	0°♄31'38	-0.8m	evening max el	911 Nov 28 j 18:03	1°♄24'45	20°13'39
evening max el	910 Dec 15 j 13:52	17°♄55'56	19°17'28	retrograde	911 Dec 06 j 13:33	6°♄00'14	
asc. node	910 Dec 20 j 08:06	21°♄30'09		asc. node	911 Dec 07 j 05:09	5°♄57'51	
retrograde	910 Dec 22 j 15:49	21°♄59'45		evening set	911 Dec 10 j 07:06	4°♄39'14	
evening set	910 Dec 26 j 01:03	20°♄52'53			911 Dec 14 j 15:43	30°♄	
inferior conj	910 Dec 31 j 14:50	15°♄01'01	3°11'11	inferior conj	911 Dec 15 j 17:26	28°♄34'13	2°36'51
minimum elong	910 Dec 31 j 12:15	15°♄09'20	3°10'37	minimum elong	911 Dec 15 j 14:44	28°♄43'18	2°36'03
min. Earth dist.	911 Jan 01 j 22:52	13°♄18'13	0.66119 AU	min. Earth dist.	911 Dec 16 j 12:02	27°♄31'32	0.67024 AU
morning rise	911 Jan 05 j 23:12	8°♄49'38		morning rise	911 Dec 20 j 22:12	22°♄21'06	
direct	911 Jan 12 j 07:21	6°♄01'51		direct	911 Dec 26 j 16:24	19°♄47'54	
morning max el	911 Jan 24 j 22:10	13°♄29'23	26°11'18	morning max el	912 Jan 07 j 06:48	26°♄42'39	24°52'08
desc. node	911 Jan 28 j 08:41	17°♄11'34			912 Jan 10 j 08:18	0°♄	
	911 Feb 07 j 07:55	0°♄		desc. node	912 Jan 15 j 05:42	5°♄55'17	
	911 Feb 26 j 03:49	0°♄			912 Jan 31 j 22:50	0°♄	
morning set	911 Mar 02 j 02:33	7°♄11'31		morning set	912 Feb 12 j 10:16	19°♄13'51	
max. Earth dist.	911 Mar 06 j 02:23	14°♄48'11	1.35267 AU	max. Earth dist.	912 Feb 16 j 02:09	25°♄51'20	1.37093 AU
					912 Feb 18 j 07:32	0°♄	
superior conj	911 Mar 11 j 02:30	24°♄47'12	-1°09'45	superior conj	912 Feb 22 j 13:26	8°♄09'22	-1°33'58
minimum elong	911 Mar 11 j 05:50	25°♄04'16	1°09'12	minimum elong	912 Feb 22 j 17:28	8°♄29'09	1°33'29
	911 Mar 13 j 15:25	0°♄		evening rise	912 Mar 01 j 23:40	24°♄58'23	
asc. node	911 Mar 18 j 07:26	9°♄40'09		asc. node	912 Mar 04 j 04:29	29°♄20'29	
evening rise	911 Mar 18 j 21:12	10°♄50'58			912 Mar 04 j 12:32	0°♄	
	911 Mar 29 j 01:45	0°♄		evening max el	912 Mar 19 j 00:25	22°♄32'42	19°24'57
evening max el	911 Apr 06 j 09:26	10°♄49'50	20°30'26	retrograde	912 Mar 28 j 07:02	27°♄00'57	
retrograde	911 Apr 17 j 08:45	16°♄07'59		evening set	912 Mar 30 j 09:55	26°♄47'57	
evening set	911 Apr 19 j 11:20	15°♄57'04		inferior conj	912 Apr 07 j 21:08	22°♄40'58	1°12'43
desc. node	911 Apr 26 j 07:54	13°♄17'54		minimum elong	912 Apr 08 j 00:00	22°♄36'16	1°11'45
inferior conj	911 Apr 28 j 15:17	11°♄59'22	-0°40'03	min. Earth dist.	912 Apr 10 j 14:09	20°♄55'25	0.56119 AU
minimum elong	911 Apr 28 j 13:23	12°♄02'07	0°39'22	desc. node	912 Apr 12 j 04:56	19°♄56'26	
min. Earth dist.	911 Apr 29 j 23:33	11°♄12'40	0.55114 AU	morning rise	912 Apr 16 j 11:19	17°♄55'35	
morning rise	911 May 07 j 14:22	7°♄46'21		direct	912 Apr 21 j 02:18	17°♄06'58	
direct	911 May 11 j 05:46	7°♄17'41		morning max el	912 May 05 j 05:27	24°♄16'37	24°59'05
morning max el	911 May 24 j 14:42	13°♄47'34	23°18'36		912 May 10 j 10:56	0°♄	
	911 Jun 06 j 01:05	0°♄			912 May 28 j 16:47	0°♄	
asc. node	911 Jun 14 j 06:41	15°♄12'42		morning set	912 May 31 j 09:41	5°♄35'48	
morning set	911 Jun 16 j 21:45	20°♄38'11		asc. node	912 May 31 j 03:45	5°♄04'34	
	911 Jun 21 j 07:01	0°♄					
superior conj	911 Jun 23 j 23:45	5°♄48'09	1°26'44	superior conj	912 Jun 07 j 09:23	20°♄42'33	1°09'49
minimum elong	911 Jun 23 j 21:22	5°♄35'24	1°26'26	minimum elong	912 Jun 07 j 06:59	20°♄29'28	1°09'25
max. Earth dist.	911 Jun 26 j 10:58	11°♄03'03	1.33684 AU	max. Earth dist.	912 Jun 08 j 17:19	23°♄36'09	1.32833 AU
evening rise	911 Jul 01 j 14:10	21°♄35'29			912 Jun 11 j 16:52	0°♄	
	911 Jul 05 j 22:39	0°♄		evening rise	912 Jun 14 j 13:53	5°♄59'52	
desc. node	911 Jul 23 j 07:14	28°♄18'09			912 Jun 27 j 12:32	0°♄	
	911 Jul 24 j 12:55	0°♄		desc. node	912 Jul 09 j 04:16	17°♄05'19	
evening max el	911 Aug 04 j 16:39	13°♄02'22	27°20'47	evening max el	912 Jul 17 j 01:44	25°♄55'19	27°22'31
retrograde	911 Aug 18 j 04:39	20°♄20'53			912 Jul 22 j 00:53	0°♄	
evening set	911 Aug 25 j 07:07	17°♄37'39		retrograde	912 Jul 30 j 20:16	3°♄12'56	
min. Earth dist.	911 Aug 29 j 00:22	14°♄12'04	0.64350 AU	evening set	912 Aug 07 j 01:15	0°♄42'07	
inferior conj	911 Aug 31 j 08:58	11°♄40'58	-3°05'51		912 Aug 08 j 00:22	30°♄	
minimum elong	911 Aug 31 j 13:34	11°♄28'39	3°04'21	min. Earth dist.	912 Aug 10 j 15:09	27°♄46'13	0.62635 AU
morning rise	911 Sep 06 j 20:57	6°♄15'10		inferior conj	912 Aug 13 j 12:20	25°♄01'11	-3°55'34
direct	911 Sep 09 j 11:49	5°♄40'02		minimum elong	912 Aug 13 j 17:22	24°♄49'08	3°54'21
asc. node	911 Sep 10 j 05:52	5°♄42'58		morning rise	912 Aug 20 j 10:50	19°♄54'13	
morning max el	911 Sep 16 j 00:01	9°♄06'48	17°58'37	direct	912 Aug 22 j 22:23	19°♄26'14	
	911 Sep 30 j 01:53	0°♄		asc. node	912 Aug 27 j 02:55	20°♄47'53	
morning set	911 Oct 03 j 07:42	5°♄30'23		morning max el	912 Aug 29 j 15:43	22°♄52'15	17°52'44
					912 Sep 04 j 05:39	0°♄	
superior conj	911 Oct 16 j 12:59	27°♄28'20	0°18'11	morning set	912 Sep 14 j 20:16	18°♄06'10	
minimum elong	911 Oct 16 j 15:04	27°♄36'45	0°17'54		912 Sep 21 j 13:55	0°♄	
	911 Oct 18 j 02:37	0°♄					

superior conj	912 Sep 26 j 03:57	7°♌52'03	0°58'06	minimum elong	913 Sep 08 j 01:34	19°♍52'09	1°25'13
minimum elong	912 Sep 26 j 08:40	8°♌12'00	0°57'30		913 Sep 13 j 21:17	0°♌	
max. Earth dist.	912 Oct 03 j 02:53	19°♌22'54	1.43335 AU	max. Earth dist.	913 Sep 15 j 12:22	2°♌44'59	1.41629 AU
desc. node	912 Oct 05 j 03:34	22°♌39'04		evening rise	913 Sep 21 j 00:08	11°♌45'54	
	912 Oct 09 j 18:57	0°♍		desc. node	913 Sep 22 j 00:36	13°♌23'54	
evening rise	912 Oct 11 j 03:27	2°♍06'44			913 Oct 02 j 19:38	0°♍	
	912 Oct 29 j 21:09	0°♌		evening max el	913 Oct 24 j 09:40	28°♍24'58	22°39'40
evening max el	912 Nov 10 j 16:32	14°♌54'14	21°22'23		913 Oct 26 j 01:12	0°♌	
retrograde	912 Nov 19 j 10:57	20°♌07'02		retrograde	913 Nov 03 j 06:15	4°♌16'28	
asc. node	912 Nov 23 j 02:10	18°♌53'22		evening set	913 Nov 07 j 22:09	2°♌22'46	
evening set	912 Nov 23 j 14:43	18°♌30'19		asc. node	913 Nov 09 j 23:13	0°♌20'49	
inferior conj	912 Nov 28 j 23:21	12°♌15'34	1°54'58		913 Nov 10 j 06:21	30°♍	
minimum elong	912 Nov 28 j 21:03	12°♌23'30	1°54'08	inferior conj	913 Nov 13 j 06:37	26°♍02'01	1°07'09
min. Earth dist.	912 Nov 29 j 06:06	11°♌52'15	0.67554 AU	minimum elong	913 Nov 13 j 05:07	26°♍07'12	1°06'32
morning rise	912 Dec 04 j 03:13	6°♌02'32		min. Earth dist.	913 Nov 13 j 02:34	26°♍16'01	0.67742 AU
direct	912 Dec 09 j 06:18	3°♌49'44		morning rise	913 Nov 18 j 11:57	19°♍51'17	
morning max el	912 Dec 19 j 15:48	10°♌01'01	23°24'33	direct	913 Nov 23 j 00:12	18°♍01'01	
desc. node	913 Jan 01 j 02:45	25°♌19'25		morning max el	913 Dec 02 j 04:12	23°♍24'59	21°57'57
	913 Jan 04 j 10:36	0°♎			913 Dec 07 j 21:51	0°♌	
morning set	913 Jan 23 j 17:41	0°♎02'20		desc. node	913 Dec 18 j 23:48	15°♌12'05	
	913 Jan 23 j 17:08	0°♎			913 Dec 28 j 20:18	0°♎	
max. Earth dist.	913 Jan 27 j 21:09	7°♎08'54	1.39188 AU	morning set	914 Jan 03 j 19:58	9°♎25'59	
				max. Earth dist.	914 Jan 09 j 18:58	19°♎11'14	1.41296 AU
superior conj	913 Feb 04 j 10:27	20°♎47'07	-1°52'56		914 Jan 16 j 02:51	0°♎	
minimum elong	913 Feb 04 j 14:00	21°♎03'39	1°52'40				
	913 Feb 09 j 07:10	0°♏		superior conj	914 Jan 17 j 12:31	2°♎27'50	-2°02'53
evening rise	913 Feb 13 j 18:09	8°♏36'56		minimum elong	914 Jan 17 j 13:33	2°♎32'26	2°02'51
asc. node	913 Feb 19 j 01:32	18°♏40'44		evening rise	914 Jan 28 j 01:12	21°♎38'06	
	913 Feb 25 j 22:57	0°♏			914 Feb 01 j 14:20	0°♏	
evening max el	913 Mar 02 j 01:22	4°♏52'13	18°39'21	asc. node	914 Feb 05 j 22:33	7°♏33'42	
retrograde	913 Mar 09 j 22:45	8°♏43'09		evening max el	914 Feb 13 j 09:15	17°♏40'00	18°13'49
evening set	913 Mar 12 j 06:51	8°♏24'06		retrograde	914 Feb 20 j 08:48	21°♏09'52	
inferior conj	913 Mar 19 j 22:48	3°♏59'30	2°36'21	evening set	914 Feb 22 j 22:27	20°♏42'20	
minimum elong	913 Mar 20 j 02:59	3°♏51'33	2°35'18	inferior conj	914 Mar 01 j 21:21	15°♏56'54	3°25'33
min. Earth dist.	913 Mar 23 j 07:46	1°♏26'39	0.57829 AU	minimum elong	914 Mar 02 j 00:10	15°♏50'39	3°25'08
	913 Mar 25 j 10:57	30°♏		min. Earth dist.	914 Mar 05 j 06:21	12°♏58'51	0.59906 AU
morning rise	913 Mar 27 j 20:06	28°♏41'36		morning rise	914 Mar 08 j 23:41	10°♏15'39	
desc. node	913 Mar 30 j 01:58	27°♏50'25		direct	914 Mar 15 j 12:42	8°♏16'34	
direct	913 Apr 02 j 13:09	27°♏20'09		desc. node	914 Mar 16 j 22:59	8°♏22'05	
	913 Apr 10 j 18:55	0°♏		morning max el	914 Mar 29 j 19:44	16°♏04'20	27°24'52
morning max el	913 Apr 16 j 21:55	4°♏54'59	26°25'46		914 Apr 10 j 05:15	0°♏	
	913 May 05 j 05:14	0°♏			914 Apr 27 j 15:20	0°♏	
morning set	913 May 15 j 20:37	20°♏29'47		morning set	914 Apr 30 j 04:51	5°♏13'58	
asc. node	913 May 18 j 00:49	25°♏07'25		asc. node	914 May 04 j 21:53	15°♏16'23	
	913 May 20 j 06:44	0°♐		max. Earth dist.	914 May 06 j 16:58	19°♏11'50	1.32270 AU
superior conj	913 May 22 j 20:54	5°♐41'01	0°49'12	superior conj	914 May 07 j 08:34	20°♏37'26	0°25'39
minimum elong	913 May 22 j 18:57	5°♐30'16	0°48'49	minimum elong	914 May 07 j 07:26	20°♏31'15	0°25'25
max. Earth dist.	913 May 23 j 04:31	6°♐22'52	1.32365 AU		914 May 11 j 15:21	0°♐	
evening rise	913 May 29 j 19:50	20°♐41'54		evening rise	914 May 14 j 05:37	5°♐33'36	
	913 Jun 03 j 10:14	0°♑			914 May 27 j 03:52	0°♑	
	913 Jun 21 j 22:56	0°♑		evening max el	914 Jun 11 j 03:16	19°♑37'49	25°48'50
desc. node	913 Jun 26 j 01:18	4°♑52'31		desc. node	914 Jun 12 j 22:18	21°♑15'14	
evening max el	913 Jun 29 j 05:49	8°♑09'00	26°51'25	retrograde	914 Jun 25 j 04:10	26°♑48'35	
retrograde	913 Jul 13 j 04:44	15°♑24'08		evening set	914 Jul 01 j 05:05	25°♑21'29	
evening set	913 Jul 20 j 02:04	13°♑19'46		min. Earth dist.	914 Jul 05 j 15:45	22°♑42'02	0.58599 AU
min. Earth dist.	913 Jul 23 j 19:46	10°♑40'47	0.60657 AU	inferior conj	914 Jul 08 j 22:14	20°♑19'19	-4°51'14
inferior conj	913 Jul 27 j 01:55	7°♑56'58	-4°33'49	minimum elong	914 Jul 08 j 22:43	20°♑18'25	4°51'14
minimum elong	913 Jul 27 j 05:49	7°♑48'46	4°33'17	morning rise	914 Jul 16 j 18:43	15°♑56'09	
morning rise	913 Aug 03 j 11:25	3°♑11'25		direct	914 Jul 19 j 06:57	15°♑35'40	
direct	913 Aug 05 j 22:09	2°♑48'08		morning max el	914 Jul 27 j 11:13	19°♑28'49	18°38'53
morning max el	913 Aug 13 j 04:29	6°♑22'26	18°05'45	asc. node	914 Jul 31 j 21:04	24°♑40'03	
asc. node	913 Aug 13 j 24:00	7°♑11'55			914 Aug 04 j 08:40	0°♑	
	913 Aug 28 j 06:13	0°♑		morning set	914 Aug 12 j 18:23	15°♑27'56	
morning set	913 Aug 29 j 01:24	1°♑29'27			914 Aug 20 j 06:56	0°♑	
superior conj	913 Sep 07 j 21:26	19°♑33'41	1°25'37	superior conj	914 Aug 21 j 12:36	2°♑20'06	1°41'06

minimum elong	914 Aug 21 j 14:50	2° \mathbb{M} 30'35	1°40'59	morning max el	915 Jul 10 j 08:53	2° \mathbb{G} 00'55	19°33'13
max. Earth dist.	914 Aug 28 j 17:12	15° \mathbb{M} 25'01	1.39648 AU	asc. node	915 Jul 18 j 18:08	12° \mathbb{G} 57'16	
evening rise	914 Sep 01 j 19:58	22° \mathbb{M} 30'17		morning set	915 Jul 27 j 19:34	29° \mathbb{G} 51'05	
	914 Sep 06 j 08:52	0° \mathbb{L}			915 Jul 27 j 21:21	0° \mathbb{Q}	
desc. node	914 Sep 08 j 21:39	4° \mathbb{L} 02'48					
	914 Sep 26 j 18:33	0° \mathbb{M}		superior conj	915 Aug 04 j 19:51	15° \mathbb{Q} 54'52	1°46'27
evening max el	914 Oct 06 j 23:09	11° \mathbb{M} 59'20	23°59'47	minimum elong	915 Aug 04 j 20:07	15° \mathbb{Q} 56'10	1°46'27
retrograde	914 Oct 17 j 22:05	18° \mathbb{M} 25'43		max. Earth dist.	915 Aug 10 j 21:02	27° \mathbb{Q} 29'51	1.37637 AU
evening set	914 Oct 23 j 03:47	16° \mathbb{M} 14'32			915 Aug 12 j 05:39	0° \mathbb{M}	
asc. node	914 Oct 27 j 20:15	10° \mathbb{M} 50'01		evening rise	915 Aug 14 j 15:49	4° \mathbb{M} 22'18	
min. Earth dist.	914 Oct 27 j 22:59	10° \mathbb{M} 40'49	0.67607 AU	desc. node	915 Aug 26 j 18:39	24° \mathbb{M} 30'45	
inferior conj	914 Oct 28 j 13:27	9° \mathbb{M} 51'47	0°14'49		915 Aug 30 j 09:21	0° \mathbb{L}	
minimum elong	914 Oct 28 j 13:05	9° \mathbb{M} 53'00	0°14'39	evening max el	915 Sep 19 j 11:02	25° \mathbb{L} 36'47	25°15'56
transit middle	914 Oct 28 j 13:05	9° \mathbb{M} 53'00	0°14'39		915 Sep 24 j 16:07	0° \mathbb{M}	
transit begin	914 Oct 28 j 11:54	9° \mathbb{M} 57'01		retrograde	915 Oct 01 j 09:38	2° \mathbb{M} 30'20	
transit end	914 Oct 28 j 14:16	9° \mathbb{M} 48'58		evening set	915 Oct 07 j 05:53	0° \mathbb{M} 02'52	
morning rise	914 Nov 02 j 22:22	3° \mathbb{M} 45'47			915 Oct 07 j 07:13	30° \mathbb{R} \mathbb{L}	
direct	914 Nov 06 j 21:00	2° \mathbb{M} 17'29		min. Earth dist.	915 Oct 11 j 16:53	25° \mathbb{L} 04'06	0.67142 AU
morning max el	914 Nov 14 j 23:13	6° \mathbb{M} 58'33	20°39'38	inferior conj	915 Oct 12 j 18:06	23° \mathbb{L} 42'06	-0°40'41
	914 Dec 02 j 05:53	0° \mathbb{X}		minimum elong	915 Oct 12 j 19:07	23° \mathbb{L} 38'46	0°40'15
desc. node	914 Dec 05 j 20:51	5° \mathbb{X} 25'21		asc. node	915 Oct 14 j 17:18	21° \mathbb{L} 12'59	
morning set	914 Dec 13 j 21:45	17° \mathbb{X} 43'53		morning rise	915 Oct 18 j 08:30	17° \mathbb{L} 43'36	
	914 Dec 21 j 16:09	0° \mathbb{Z}		direct	915 Oct 21 j 19:19	16° \mathbb{L} 34'51	
max. Earth dist.	914 Dec 23 j 00:37	2° \mathbb{Z} 10'50	1.43125 AU	morning max el	915 Oct 29 j 02:07	20° \mathbb{L} 42'41	19°34'12
					915 Nov 05 j 13:30	0° \mathbb{M}	
superior conj	914 Dec 29 j 14:25	12° \mathbb{Z} 59'49	-1°59'05	greatest brilliancy	915 Nov 11 j 14:41	8° \mathbb{M} 50'13	-0.7m
minimum elong	914 Dec 29 j 10:43	12° \mathbb{Z} 44'23	1°58'56	morning set	915 Nov 22 j 19:35	25° \mathbb{M} 59'42	
	915 Jan 08 j 11:49	0° \mathbb{N}		desc. node	915 Nov 22 j 17:54	25° \mathbb{M} 53'11	
evening rise	915 Jan 10 j 16:52	3° \mathbb{N} 53'54			915 Nov 25 j 09:33	0° \mathbb{X}	
asc. node	915 Jan 23 j 19:35	25° \mathbb{N} 50'59		max. Earth dist.	915 Dec 05 j 13:50	15° \mathbb{X} 57'24	1.44421 AU
	915 Jan 27 j 02:47	0° \mathbb{H}					
evening max el	915 Jan 27 j 20:55	0° \mathbb{H} 47'12	18°07'51	superior conj	915 Dec 09 j 13:40	22° \mathbb{X} 19'27	-1°37'20
retrograde	915 Feb 03 j 09:48	4° \mathbb{H} 11'22		minimum elong	915 Dec 09 j 05:34	21° \mathbb{X} 46'56	1°36'38
evening set	915 Feb 06 j 04:21	3° \mathbb{H} 34'04			915 Dec 14 j 07:34	0° \mathbb{Z}	
	915 Feb 11 j 00:35	30° \mathbb{R} \mathbb{N}		evening rise	915 Dec 23 j 12:51	15° \mathbb{Z} 16'55	
inferior conj	915 Feb 12 j 13:51	28° \mathbb{N} 27'36	3°45'39		916 Jan 01 j 08:14	0° \mathbb{N}	
minimum elong	915 Feb 12 j 14:31	28° \mathbb{N} 25'54	3°45'38	asc. node	916 Jan 10 j 16:35	13° \mathbb{N} 22'09	
min. Earth dist.	915 Feb 15 j 12:28	25° \mathbb{N} 29'30	0.62008 AU	evening max el	916 Jan 11 j 09:27	14° \mathbb{N} 06'33	18°20'52
morning rise	915 Feb 18 j 23:26	22° \mathbb{N} 31'46		retrograde	916 Jan 17 j 21:18	17° \mathbb{N} 38'05	
direct	915 Feb 25 j 21:57	20° \mathbb{N} 01'35		evening set	916 Jan 20 j 20:43	16° \mathbb{N} 50'14	
desc. node	915 Mar 03 j 20:01	21° \mathbb{N} 37'22		inferior conj	916 Jan 26 j 20:19	11° \mathbb{N} 24'15	3°44'03
morning max el	915 Mar 11 j 23:38	27° \mathbb{N} 54'36	27°48'15	minimum elong	916 Jan 26 j 19:12	11° \mathbb{N} 27'27	3°43'58
	915 Mar 13 j 24:00	0° \mathbb{H}		min. Earth dist.	916 Jan 29 j 04:08	8° \mathbb{N} 46'24	0.63883 AU
	915 Apr 03 j 22:34	0° \mathbb{Y}		morning rise	916 Feb 01 j 17:02	5° \mathbb{N} 19'34	
morning set	915 Apr 14 j 08:20	19° \mathbb{Y} 41'01		direct	916 Feb 08 j 15:15	2° \mathbb{N} 31'27	
	915 Apr 19 j 06:30	0° \mathbb{B}		desc. node	916 Feb 18 j 17:03	7° \mathbb{N} 05'24	
max. Earth dist.	915 Apr 20 j 02:51	1° \mathbb{B} 49'32	1.32560 AU	morning max el	916 Feb 22 j 07:59	10° \mathbb{N} 23'22	27°34'50
					916 Mar 08 j 18:24	0° \mathbb{H}	
superior conj	915 Apr 21 j 18:38	5° \mathbb{B} 25'09	-0°00'07		916 Mar 26 j 07:01	0° \mathbb{Y}	
minimum elong	915 Apr 21 j 18:38	5° \mathbb{B} 25'11	0°00'07	morning set	916 Mar 28 j 04:39	3° \mathbb{Y} 43'17	
behind sun begin	915 Apr 21 j 13:33	4° \mathbb{B} 57'29		max. Earth dist.	916 Apr 02 j 06:13	14° \mathbb{Y} 03'17	1.33260 AU
behind sun end	915 Apr 21 j 23:44	5° \mathbb{B} 52'54					
asc. node	915 Apr 21 j 18:54	5° \mathbb{B} 26'38		superior conj	916 Apr 05 j 01:21	19° \mathbb{Y} 58'34	-0°27'12
evening rise	915 Apr 28 j 17:14	20° \mathbb{B} 27'14		minimum elong	916 Apr 05 j 02:41	20° \mathbb{Y} 05'40	0°26'55
	915 May 03 j 09:01	0° \mathbb{I}		asc. node	916 Apr 07 j 15:56	25° \mathbb{Y} 34'22	
	915 May 23 j 07:57	0° \mathbb{G}			916 Apr 09 j 17:21	0° \mathbb{B}	
evening max el	915 May 23 j 18:45	0° \mathbb{G} 26'21	24°22'40	evening rise	916 Apr 12 j 04:52	5° \mathbb{B} 16'34	
desc. node	915 May 30 j 19:18	5° \mathbb{G} 39'45			916 Apr 25 j 13:57	0° \mathbb{I}	
retrograde	915 Jun 06 j 15:57	7° \mathbb{G} 26'37		evening max el	916 May 04 j 09:25	10° \mathbb{I} 57'46	22°46'57
evening set	915 Jun 11 j 08:53	6° \mathbb{G} 37'10		desc. node	916 May 16 j 16:17	17° \mathbb{I} 30'21	
min. Earth dist.	915 Jun 17 j 05:52	3° \mathbb{G} 40'44	0.56743 AU	retrograde	916 May 17 j 15:21	17° \mathbb{I} 32'27	
inferior conj	915 Jun 19 j 22:29	1° \mathbb{G} 58'27	-4°34'51	evening set	916 May 20 j 21:45	17° \mathbb{I} 09'01	
minimum elong	915 Jun 19 j 17:58	2° \mathbb{G} 05'40	4°34'17	min. Earth dist.	916 May 28 j 17:54	13° \mathbb{I} 42'26	0.55427 AU
	915 Jun 23 j 04:38	30° \mathbb{R} \mathbb{I}		inferior conj	916 May 30 j 03:47	12° \mathbb{I} 53'50	-3°33'07
morning rise	915 Jun 28 j 05:46	27° \mathbb{I} 55'18		minimum elong	916 May 29 j 20:13	13° \mathbb{I} 04'42	3°31'10
direct	915 Jun 30 j 21:08	27° \mathbb{I} 36'26		morning rise	916 Jun 07 j 21:05	9° \mathbb{I} 01'07	
	915 Jul 07 j 21:14	0° \mathbb{G}		direct	916 Jun 10 j 16:53	8° \mathbb{I} 42'31	

morning max el	916 Jun 21 j 19:35	13° Π 51'40	20°48'21	morning max el	917 Jun 03 j 19:32	24° \mathcal{B} 59'49	22°20'45
	916 Jul 03 j 14:16	0° \mathfrak{D}			917 Jun 08 j 10:09	0° Π	
asc. node	916 Jul 04 j 15:11	1° \mathfrak{D} 51'59		asc. node	917 Jun 21 j 12:14	21° Π 14'34	
morning set	916 Jul 11 j 02:17	14° \mathfrak{D} 31'34		morning set	917 Jun 25 j 12:24	29° Π 23'06	
					917 Jun 25 j 19:28	0° \mathfrak{D}	
superior conj	916 Jul 18 j 14:33	0° Ω 04'48	1°43'41	superior conj	917 Jul 02 j 17:08	14° \mathfrak{D} 38'49	1°34'27
minimum elong	916 Jul 18 j 13:19	29° \mathfrak{D} 58'29	1°43'38	minimum elong	917 Jul 02 j 15:00	14° \mathfrak{D} 27'34	1°34'15
	916 Jul 18 j 13:37	0° Ω			917 Jul 05 j 21:45	21° \mathfrak{D} 19'00	1.34347 AU
max. Earth dist.	916 Jul 23 j 05:07	9° Ω 19'49	1.35822 AU	max. Earth dist.	917 Jul 10 j 05:19	0° Ω	
evening rise	916 Jul 27 j 07:56	17° Ω 13'07		evening rise	917 Jul 10 j 15:33	0° Ω 50'01	
	916 Aug 03 j 11:42	0° \mathfrak{M}			917 Jul 27 j 11:43	0° \mathfrak{M}	
desc. node	916 Aug 12 j 15:39	14° \mathfrak{M} 42'13		desc. node	917 Jul 30 j 12:40	4° \mathfrak{M} 29'54	
	916 Aug 23 j 17:03	0° \mathfrak{L}			917 Aug 14 j 10:45	22° \mathfrak{M} 43'59	27°06'04
evening max el	916 Aug 31 j 22:46	9° \mathfrak{L} 13'57	26°20'32	evening max el	917 Aug 26 j 20:03	0° \mathfrak{L}	
retrograde	916 Sep 13 j 16:19	16° \mathfrak{L} 24'57		retrograde	917 Aug 27 j 17:49	0° \mathfrak{L} 02'36	
evening set	916 Sep 20 j 02:34	13° \mathfrak{L} 45'04			917 Aug 28 j 15:14	30° \mathfrak{R} \mathfrak{M}	
min. Earth dist.	916 Sep 24 j 05:57	9° \mathfrak{L} 22'50	0.66336 AU	evening set	917 Sep 03 j 15:29	27° \mathfrak{M} 17'39	
inferior conj	916 Sep 25 j 18:42	7° \mathfrak{L} 30'21	-1°37'47	min. Earth dist.	917 Sep 07 j 11:59	23° \mathfrak{M} 32'02	0.65173 AU
minimum elong	916 Sep 25 j 21:14	7° \mathfrak{L} 22'34	1°36'45	inferior conj	917 Sep 09 j 13:11	21° \mathfrak{M} 13'02	-2°34'29
asc. node	916 Sep 30 j 14:22	2° \mathfrak{L} 25'33		minimum elong	917 Sep 09 j 17:09	21° \mathfrak{M} 01'49	2°33'02
morning rise	916 Oct 01 j 16:21	1° \mathfrak{L} 42'08		morning rise	917 Sep 15 j 19:35	15° \mathfrak{M} 38'07	
direct	916 Oct 04 j 17:26	0° \mathfrak{L} 49'28		asc. node	917 Sep 17 j 11:26	15° \mathfrak{M} 04'02	
morning max el	916 Oct 11 j 11:48	4° \mathfrak{L} 34'26	18°43'57	direct	917 Sep 18 j 13:21	14° \mathfrak{M} 57'42	
	916 Oct 29 j 04:34	0° \mathfrak{M}		morning max el	917 Sep 25 j 02:02	18° \mathfrak{M} 29'03	18°10'11
morning set	916 Nov 01 j 12:52	5° \mathfrak{M} 18'28			917 Oct 03 j 15:03	0° \mathfrak{L}	
desc. node	916 Nov 08 j 14:56	16° \mathfrak{M} 30'46		morning set	917 Oct 13 j 11:09	16° \mathfrak{L} 03'53	
	916 Nov 17 j 04:47	0° \mathfrak{X}			917 Oct 21 j 23:33	0° \mathfrak{M}	
superior conj	916 Nov 17 j 17:20	0° \mathfrak{X} 49'21	-0°57'52	desc. node	917 Oct 26 j 11:58	7° \mathfrak{M} 14'53	
minimum elong	916 Nov 17 j 10:10	0° \mathfrak{X} 21'13	0°56'59	superior conj	917 Oct 27 j 21:03	9° \mathfrak{M} 26'30	-0°09'10
max. Earth dist.	916 Nov 17 j 07:19	0° \mathfrak{X} 09'58	1.45041 AU	minimum elong	917 Oct 27 j 19:53	9° \mathfrak{M} 21'52	0°09'01
evening rise	916 Dec 03 j 09:40	25° \mathfrak{X} 41'12		behind sun begin	917 Oct 27 j 10:44	8° \mathfrak{M} 45'28	
	916 Dec 06 j 02:09	0° \mathfrak{Z}		behind sun end	917 Oct 28 j 05:03	9° \mathfrak{M} 58'13	
greatest brilliancy	916 Dec 10 j 11:05	7° \mathfrak{Z} 00'46	-0.9m	max. Earth dist.	917 Oct 31 j 02:01	14° \mathfrak{M} 30'48	1.44928 AU
evening max el	916 Dec 24 j 20:14	27° \mathfrak{Z} 31'32	18°51'59		917 Nov 09 j 23:40	0° \mathfrak{X}	
asc. node	916 Dec 27 j 13:38	29° \mathfrak{Z} 53'17		evening rise	917 Nov 13 j 07:57	5° \mathfrak{X} 11'59	
	916 Dec 27 j 17:35	0° \mathfrak{A}		greatest brilliancy	917 Nov 25 j 23:17	24° \mathfrak{X} 38'49	-0.7m
retrograde	916 Dec 31 j 15:10	1° \mathfrak{A} 21'18			917 Nov 29 j 14:07	0° \mathfrak{Z}	
evening set	917 Jan 03 j 20:19	0° \mathfrak{A} 21'53		evening max el	917 Dec 08 j 03:19	10° \mathfrak{Z} 59'37	19°39'39
	917 Jan 04 j 09:35	30° \mathfrak{R} \mathfrak{Z}		asc. node	917 Dec 14 j 10:41	15° \mathfrak{Z} 10'03	
inferior conj	917 Jan 09 j 12:58	24° \mathfrak{Z} 38'41	3°26'40	retrograde	917 Dec 15 j 12:11	15° \mathfrak{Z} 16'21	
minimum elong	917 Jan 09 j 10:43	24° \mathfrak{Z} 45'39	3°26'18	evening set	917 Dec 19 j 00:38	14° \mathfrak{Z} 03'53	
min. Earth dist.	917 Jan 11 j 05:25	22° \mathfrak{Z} 33'43	0.65409 AU	inferior conj	917 Dec 24 j 12:43	8° \mathfrak{Z} 06'09	2°57'41
morning rise	917 Jan 15 j 00:47	18° \mathfrak{Z} 28'48		minimum elong	917 Dec 24 j 10:01	8° \mathfrak{Z} 15'01	2°57'00
direct	917 Jan 21 j 15:24	15° \mathfrak{Z} 37'07		min. Earth dist.	917 Dec 25 j 14:55	6° \mathfrak{Z} 40'00	0.66548 AU
morning max el	917 Feb 03 j 17:50	23° \mathfrak{Z} 18'08	26°49'08	morning rise	917 Dec 29 j 19:10	1° \mathfrak{Z} 53'33	
desc. node	917 Feb 04 j 14:05	24° \mathfrak{Z} 09'54			918 Jan 01 j 11:55	30° \mathfrak{R} \mathfrak{X}	
	917 Feb 09 j 17:18	0° \mathfrak{A}		direct	918 Jan 04 j 21:40	29° \mathfrak{X} 10'43	
	917 Mar 02 j 01:55	0° \mathfrak{H}			918 Jan 08 j 14:00	0° \mathfrak{Z}	
morning set	917 Mar 11 j 14:27	17° \mathfrak{H} 09'39		morning max el	918 Jan 17 j 02:58	6° \mathfrak{Z} 26'44	25°39'15
max. Earth dist.	917 Mar 15 j 23:12	25° \mathfrak{H} 42'33	1.34400 AU	desc. node	918 Jan 22 j 11:09	12° \mathfrak{Z} 23'24	
	917 Mar 18 j 02:02	0° \mathfrak{Y}			918 Feb 04 j 09:46	0° \mathfrak{A}	
superior conj	917 Mar 20 j 02:33	4° \mathfrak{Y} 10'15	-0°54'31	morning set	918 Feb 22 j 09:18	29° \mathfrak{A} 47'06	
minimum elong	917 Mar 20 j 05:13	4° \mathfrak{Y} 24'09	0°54'01		918 Feb 22 j 12:07	0° \mathfrak{H}	
asc. node	917 Mar 25 j 12:57	15° \mathfrak{Y} 34'48		max. Earth dist.	918 Feb 26 j 04:09	6° \mathfrak{H} 50'39	1.35993 AU
evening rise	917 Mar 27 j 14:34	19° \mathfrak{Y} 54'20		superior conj	918 Mar 03 j 19:38	17° \mathfrak{H} 53'01	-1°20'29
	917 Apr 01 j 15:02	0° \mathfrak{B}		minimum elong	918 Mar 03 j 23:23	18° \mathfrak{H} 11'46	1°19'55
evening max el	917 Apr 16 j 06:45	21° \mathfrak{B} 43'15	21°16'17		918 Mar 09 j 18:31	0° \mathfrak{Y}	
retrograde	917 Apr 28 j 05:43	27° \mathfrak{B} 32'40		evening rise	918 Mar 11 j 20:20	4° \mathfrak{Y} 14'26	
evening set	917 Apr 30 j 13:09	27° \mathfrak{B} 20'22		asc. node	918 Mar 12 j 09:59	5° \mathfrak{Y} 23'42	
desc. node	917 May 03 j 13:18	26° \mathfrak{B} 30'33			918 Mar 26 j 19:49	0° \mathfrak{B}	
inferior conj	917 May 09 j 22:19	23° \mathfrak{B} 20'49	-1°49'15	evening max el	918 Mar 29 j 15:18	3° \mathfrak{B} 04'01	20°00'18
minimum elong	917 May 09 j 17:14	23° \mathfrak{B} 27'58	1°47'30	retrograde	918 Apr 08 j 20:59	7° \mathfrak{B} 59'36	
min. Earth dist.	917 May 10 j 06:31	23° \mathfrak{B} 09'16	0.54947 AU	evening set	918 Apr 10 j 22:30	7° \mathfrak{B} 48'30	
morning rise	917 May 18 j 21:37	19° \mathfrak{B} 20'21		inferior conj	918 Apr 19 j 20:12	3° \mathfrak{B} 48'50	0°10'10
direct	917 May 22 j 02:54	18° \mathfrak{B} 57'51					

minimum elong	918 Apr 19 j 20:39	3° $\mathbf{\text{B}}$ 48'08	0°10'01	evening max el	919 Mar 12 j 10:56	15° $\mathbf{\text{Y}}$ 03'38	19°03'11
transit middle	918 Apr 19 j 20:39	3° $\mathbf{\text{B}}$ 48'08	0°10'01	retrograde	919 Mar 21 j 01:51	19° $\mathbf{\text{Y}}$ 13'38	
transit begin	918 Apr 19 j 17:33	3° $\mathbf{\text{B}}$ 52'50		evening set	919 Mar 23 j 06:57	18° $\mathbf{\text{Y}}$ 58'20	
transit end	918 Apr 19 j 23:45	3° $\mathbf{\text{B}}$ 43'27		inferior conj	919 Mar 31 j 09:54	14° $\mathbf{\text{Y}}$ 44'38	1°52'27
desc. node	918 Apr 20 j 10:21	3° $\mathbf{\text{B}}$ 27'23		minimum elong	919 Mar 31 j 13:46	14° $\mathbf{\text{Y}}$ 37'54	1°51'16
min. Earth dist.	918 Apr 21 j 20:24	2° $\mathbf{\text{B}}$ 36'04	0.55436 AU	min. Earth dist.	919 Apr 03 j 11:57	12° $\mathbf{\text{Y}}$ 36'57	0.56778 AU
	918 Apr 26 j 21:31	30° $\mathbf{\text{R}}$ $\mathbf{\text{Y}}$		desc. node	919 Apr 07 j 07:22	10° $\mathbf{\text{Y}}$ 22'49	
morning rise	918 Apr 28 j 16:42	29° $\mathbf{\text{Y}}$ 22'36		morning rise	919 Apr 08 j 17:35	9° $\mathbf{\text{Y}}$ 45'06	
direct	918 May 02 j 17:23	28° $\mathbf{\text{Y}}$ 46'55		direct	919 Apr 13 j 20:13	8° $\mathbf{\text{Y}}$ 43'38	
	918 May 08 j 10:11	0° $\mathbf{\text{B}}$		morning max el	919 Apr 28 j 02:29	16° $\mathbf{\text{Y}}$ 05'14	25°38'32
morning max el	918 May 16 j 11:54	5° $\mathbf{\text{B}}$ 36'15	24°01'56		919 May 09 j 08:47	0° $\mathbf{\text{B}}$	
	918 Jun 02 j 18:58	0° $\mathbf{\text{II}}$		morning set	919 May 25 j 11:52	29° $\mathbf{\text{B}}$ 17'01	
asc. node	918 Jun 08 j 09:17	10° $\mathbf{\text{II}}$ 57'27			919 May 25 j 20:00	0° $\mathbf{\text{II}}$	
morning set	918 Jun 10 j 00:08	14° $\mathbf{\text{II}}$ 19'56		asc. node	919 May 26 j 06:20	0° $\mathbf{\text{II}}$ 54'46	
superior conj	918 Jun 17 j 00:49	29° $\mathbf{\text{II}}$ 27'51	1°20'03	superior conj	919 Jun 01 j 11:29	14° $\mathbf{\text{II}}$ 25'03	1°01'29
minimum elong	918 Jun 16 j 22:22	29° $\mathbf{\text{II}}$ 14'37	1°19'43	minimum elong	919 Jun 01 j 09:14	14° $\mathbf{\text{II}}$ 12'39	1°01'05
	918 Jun 17 j 06:46	0° $\mathbf{\text{B}}$		max. Earth dist.	919 Jun 02 j 08:46	16° $\mathbf{\text{II}}$ 21'23	1.32592 AU
max. Earth dist.	918 Jun 18 j 23:44	3° $\mathbf{\text{B}}$ 40'03	1.33273 AU	evening rise	919 Jun 08 j 13:09	29° $\mathbf{\text{II}}$ 34'02	
evening rise	918 Jun 24 j 10:25	15° $\mathbf{\text{B}}$ 00'24			919 Jun 08 j 18:10	0° $\mathbf{\text{B}}$	
	918 Jul 02 j 07:15	0° $\mathbf{\text{Q}}$			919 Jun 25 j 10:21	0° $\mathbf{\text{Q}}$	
desc. node	918 Jul 17 j 09:42	23° $\mathbf{\text{Q}}$ 43'09		desc. node	919 Jul 04 j 06:43	12° $\mathbf{\text{Q}}$ 07'36	
	918 Jul 22 j 08:57	0° $\mathbf{\text{M}}$		evening max el	919 Jul 10 j 05:18	18° $\mathbf{\text{Q}}$ 33'45	27°13'25
evening max el	918 Jul 27 j 21:45	5° $\mathbf{\text{M}}$ 55'00	27°25'30	retrograde	919 Jul 24 j 01:46	25° $\mathbf{\text{Q}}$ 49'29	
retrograde	918 Aug 10 j 13:15	13° $\mathbf{\text{M}}$ 13'44		evening set	919 Jul 31 j 04:55	23° $\mathbf{\text{Q}}$ 28'36	
evening set	918 Aug 17 j 17:34	10° $\mathbf{\text{M}}$ 34'23		min. Earth dist.	919 Aug 03 j 19:26	20° $\mathbf{\text{Q}}$ 41'35	0.61825 AU
min. Earth dist.	918 Aug 21 j 08:56	7° $\mathbf{\text{M}}$ 22'13	0.63654 AU	inferior conj	919 Aug 06 j 20:57	17° $\mathbf{\text{Q}}$ 55'15	-4°13'38
inferior conj	918 Aug 23 j 22:58	4° $\mathbf{\text{M}}$ 43'49	-3°27'55	minimum elong	919 Aug 07 j 01:45	17° $\mathbf{\text{Q}}$ 44'22	4°12'41
minimum elong	918 Aug 24 j 03:53	4° $\mathbf{\text{M}}$ 31'12	3°26'29	morning rise	919 Aug 14 j 00:04	12° $\mathbf{\text{Q}}$ 56'46	
	918 Aug 29 j 11:19	30° $\mathbf{\text{R}}$ $\mathbf{\text{Q}}$		direct	919 Aug 16 j 11:04	12° $\mathbf{\text{Q}}$ 30'55	
morning rise	918 Aug 30 j 15:19	29° $\mathbf{\text{Q}}$ 25'24		asc. node	919 Aug 22 j 05:33	14° $\mathbf{\text{Q}}$ 57'35	
direct	918 Sep 02 j 04:22	28° $\mathbf{\text{Q}}$ 53'43		morning max el	919 Aug 23 j 08:46	15° $\mathbf{\text{Q}}$ 59'14	17°55'48
asc. node	918 Sep 04 j 08:30	29° $\mathbf{\text{Q}}$ 17'13			919 Sep 02 j 03:44	0° $\mathbf{\text{M}}$	
	918 Sep 05 j 20:21	0° $\mathbf{\text{M}}$		morning set	919 Sep 08 j 07:51	11° $\mathbf{\text{M}}$ 03'06	
morning max el	918 Sep 08 j 18:00	2° $\mathbf{\text{M}}$ 19'32	17°53'49	superior conj	919 Sep 18 j 23:02	0° $\mathbf{\text{Q}}$ 01'19	1°11'19
morning set	918 Sep 25 j 11:33	28° $\mathbf{\text{M}}$ 04'55		minimum elong	919 Sep 19 j 03:47	0° $\mathbf{\text{Q}}$ 21'52	1°10'47
	918 Sep 26 j 14:07	0° $\mathbf{\text{Q}}$			919 Sep 18 j 22:44	0° $\mathbf{\text{Q}}$	
superior conj	918 Oct 07 j 20:25	19° $\mathbf{\text{Q}}$ 03'38	0°36'30	max. Earth dist.	919 Sep 26 j 08:31	12° $\mathbf{\text{Q}}$ 29'05	1.42671 AU
minimum elong	918 Oct 08 j 00:07	19° $\mathbf{\text{Q}}$ 18'49	0°36'00	desc. node	919 Sep 30 j 06:04	18° $\mathbf{\text{Q}}$ 48'20	
desc. node	918 Oct 13 j 09:01	28° $\mathbf{\text{Q}}$ 01'49		evening rise	919 Oct 03 j 04:11	23° $\mathbf{\text{Q}}$ 26'32	
max. Earth dist.	918 Oct 13 j 19:15	28° $\mathbf{\text{Q}}$ 42'45	1.44104 AU		919 Oct 07 j 09:25	0° $\mathbf{\text{M}}$	
	918 Oct 14 j 14:36	0° $\mathbf{\text{M}}$			919 Oct 28 j 06:07	0° $\mathbf{\text{J}}$	
evening rise	918 Oct 23 j 16:34	14° $\mathbf{\text{M}}$ 13'02		evening max el	919 Nov 04 j 01:24	7° $\mathbf{\text{J}}$ 58'52	21°54'29
	918 Nov 03 j 02:14	0° $\mathbf{\text{J}}$		retrograde	919 Nov 13 j 06:26	13° $\mathbf{\text{J}}$ 27'33	
evening max el	918 Nov 21 j 05:12	24° $\mathbf{\text{J}}$ 28'49	20°41'37	evening set	919 Nov 17 j 15:16	11° $\mathbf{\text{J}}$ 43'36	
retrograde	918 Nov 29 j 09:53	29° $\mathbf{\text{J}}$ 19'22		asc. node	919 Nov 18 j 04:47	11° $\mathbf{\text{J}}$ 14'46	
asc. node	918 Dec 01 j 07:44	28° $\mathbf{\text{J}}$ 58'47		inferior conj	919 Nov 22 j 23:40	5° $\mathbf{\text{J}}$ 26'00	1°35'18
evening set	918 Dec 03 j 07:33	27° $\mathbf{\text{J}}$ 52'00		minimum elong	919 Nov 22 j 21:40	5° $\mathbf{\text{J}}$ 32'56	1°34'31
inferior conj	918 Dec 08 j 16:59	21° $\mathbf{\text{J}}$ 42'40	2°19'55	min. Earth dist.	919 Nov 23 j 01:43	5° $\mathbf{\text{J}}$ 18'55	0.67685 AU
minimum elong	918 Dec 08 j 14:24	21° $\mathbf{\text{J}}$ 51'30	2°19'03		919 Nov 27 j 08:02	30° $\mathbf{\text{R}}$ $\mathbf{\text{M}}$	
min. Earth dist.	918 Dec 09 j 06:27	20° $\mathbf{\text{J}}$ 56'43	0.67300 AU	morning rise	919 Nov 28 j 03:55	29° $\mathbf{\text{M}}$ 13'55	
morning rise	918 Dec 13 j 21:03	15° $\mathbf{\text{J}}$ 29'25		direct	919 Dec 03 j 00:39	27° $\mathbf{\text{M}}$ 10'38	
direct	918 Dec 19 j 09:00	13° $\mathbf{\text{J}}$ 04'06			919 Dec 09 j 12:56	0° $\mathbf{\text{J}}$	
morning max el	918 Dec 30 j 11:13	19° $\mathbf{\text{J}}$ 41'05	24°15'12	morning max el	919 Dec 12 j 21:09	3° $\mathbf{\text{J}}$ 00'55	22°47'02
	919 Jan 08 j 06:06	0° $\mathbf{\text{B}}$		desc. node	919 Dec 27 j 05:16	21° $\mathbf{\text{J}}$ 02'52	
desc. node	919 Jan 09 j 08:12	1° $\mathbf{\text{B}}$ 25'40			920 Jan 02 j 09:07	0° $\mathbf{\text{B}}$	
	919 Jan 28 j 13:54	0° $\mathbf{\text{A}}$		morning set	920 Jan 16 j 02:37	21° $\mathbf{\text{B}}$ 31'11	
morning set	919 Feb 04 j 07:24	11° $\mathbf{\text{A}}$ 19'26		max. Earth dist.	920 Jan 20 j 20:20	29° $\mathbf{\text{B}}$ 28'46	1.40105 AU
max. Earth dist.	919 Feb 08 j 00:32	17° $\mathbf{\text{A}}$ 53'24	1.37963 AU		920 Jan 21 j 03:38	0° $\mathbf{\text{A}}$	
	919 Feb 14 j 13:10	0° $\mathbf{\text{H}}$		superior conj	920 Jan 28 j 14:49	13° $\mathbf{\text{A}}$ 12'23	-1°58'31
superior conj	919 Feb 15 j 01:13	0° $\mathbf{\text{H}}$ 57'39	-1°42'52	minimum elong	920 Jan 28 j 17:35	13° $\mathbf{\text{A}}$ 25'02	1°58'23
minimum elong	919 Feb 15 j 05:14	1° $\mathbf{\text{H}}$ 16'57	1°42'27		920 Feb 06 j 14:07	0° $\mathbf{\text{H}}$	
evening rise	919 Feb 23 j 19:44	18° $\mathbf{\text{H}}$ 10'06		evening rise	920 Feb 07 j 09:47	1° $\mathbf{\text{H}}$ 33'28	
asc. node	919 Feb 27 j 07:02	24° $\mathbf{\text{H}}$ 56'04		asc. node	920 Feb 14 j 04:05	14° $\mathbf{\text{H}}$ 05'20	
	919 Mar 02 j 00:10	0° $\mathbf{\text{Y}}$		evening max el	920 Feb 23 j 15:09	27° $\mathbf{\text{H}}$ 35'29	18°26'02

	920 Feb 26 j 17:18	0°♿		asc. node	921 Jan 31 j 01:07	2°♿44'30	
retrograde	920 Mar 02 j 01:45	1°♿15'38		evening max el	921 Feb 06 j 00:57	10°♿32'13	18°08'50
evening set	920 Mar 04 j 12:20	0°♿53'06		retrograde	921 Feb 12 j 18:52	13°♿58'19	
	920 Mar 06 j 15:17	30°♿♿		evening set	921 Feb 15 j 10:31	13°♿26'52	
inferior conj	920 Mar 11 j 20:33	26°♿19'24	3°01'18	inferior conj	921 Feb 22 j 03:15	8°♿32'16	3°37'11
minimum elong	920 Mar 12 j 00:22	26°♿11'39	3°00'29	minimum elong	921 Feb 22 j 05:09	8°♿27'45	3°36'59
min. Earth dist.	920 Mar 15 j 07:02	23°♿33'05	0.58685 AU	min. Earth dist.	921 Feb 25 j 08:38	5°♿31'11	0.60810 AU
morning rise	920 Mar 19 j 09:44	20°♿50'31		morning rise	921 Feb 28 j 21:59	2°♿43'31	
desc. node	920 Mar 24 j 04:25	19°♿17'55		direct	921 Mar 07 j 16:07	0°♿30'02	
direct	920 Mar 25 j 12:17	19°♿13'19		desc. node	921 Mar 11 j 01:27	1°♿01'21	
morning max el	920 Apr 08 j 20:56	26°♿54'05	26°55'08	morning max el	921 Mar 21 j 21:42	8°♿21'22	27°39'29
	920 Apr 11 j 19:56	0°♿			921 Apr 07 j 10:44	0°♿	
	920 May 01 j 18:56	0°♿		morning set	921 Apr 23 j 04:20	28°♿44'56	
morning set	920 May 08 j 21:52	14°♿07'23			921 Apr 23 j 18:50	0°♿	
asc. node	920 May 12 j 03:22	21°♿00'27		asc. node	921 Apr 29 j 00:25	11°♿10'08	
				max. Earth dist.	921 Apr 29 j 08:56	11°♿56'34	1.32342 AU
superior conj	920 May 15 j 23:14	29°♿22'52	0°39'32				
minimum elong	920 May 15 j 21:35	29°♿13'48	0°39'12	superior conj	921 Apr 30 j 10:23	14°♿15'45	0°14'57
max. Earth dist.	920 May 15 j 21:08	29°♿11'18	1.32279 AU	minimum elong	921 Apr 30 j 09:43	14°♿12'02	0°14'48
	920 May 16 j 05:59	0°♿		behind sun begin	921 Apr 30 j 07:54	14°♿02'07	
evening rise	920 May 22 j 20:57	14°♿20'44		behind sun end	921 Apr 30 j 11:31	14°♿21'58	
	920 May 30 j 18:56	0°♿		evening rise	921 May 07 j 07:43	29°♿13'20	
desc. node	920 Jun 20 j 03:43	29°♿22'09			921 May 07 j 16:33	0°♿	
	920 Jun 20 j 18:58	0°♿			921 May 24 j 09:35	0°♿	
evening max el	920 Jun 21 j 06:38	0°♿28'07	26°28'17	evening max el	921 Jun 03 j 00:51	11°♿36'30	25°14'15
retrograde	920 Jul 05 j 06:18	7°♿41'15		desc. node	921 Jun 07 j 00:43	14°♿58'32	
evening set	920 Jul 11 j 20:52	5°♿51'36		retrograde	921 Jun 17 j 01:15	18°♿44'54	
min. Earth dist.	920 Jul 15 j 19:44	3°♿15'00	0.59786 AU	evening set	921 Jun 22 j 13:44	17°♿34'15	
inferior conj	920 Jul 19 j 03:34	0°♿37'37	-4°44'26	min. Earth dist.	921 Jun 27 j 12:37	14°♿49'27	0.57762 AU
minimum elong	920 Jul 19 j 06:19	0°♿32'10	4°44'12	inferior conj	921 Jun 30 j 15:25	12°♿41'28	-4°49'16
	920 Jul 19 j 22:40	30°♿♿		minimum elong	921 Jun 30 j 13:50	12°♿44'12	4°49'11
morning rise	920 Jul 26 j 17:47	26°♿01'42		morning rise	921 Jul 08 j 16:36	8°♿27'52	
direct	920 Jul 29 j 05:04	25°♿39'41		direct	921 Jul 11 j 05:55	8°♿08'20	
morning max el	920 Aug 05 j 19:18	29°♿20'06	18°17'18	morning max el	921 Jul 19 j 22:32	12°♿12'58	18°59'28
	920 Aug 06 j 11:20	0°♿		asc. node	921 Jul 25 j 23:39	19°♿40'38	
asc. node	920 Aug 08 j 02:36	1°♿50'23			921 Aug 01 j 00:56	0°♿	
morning set	920 Aug 21 j 18:30	24°♿42'33		morning set	921 Aug 05 j 15:18	8°♿52'02	
	920 Aug 24 j 13:20	0°♿					
superior conj	920 Aug 31 j 02:26	12°♿12'33	1°33'33	superior conj	921 Aug 14 j 01:04	25°♿21'20	1°44'29
minimum elong	920 Aug 31 j 05:50	12°♿28'02	1°33'17	minimum elong	921 Aug 14 j 02:26	25°♿27'51	1°44'26
max. Earth dist.	920 Sep 07 j 16:09	25°♿34'52	1.40810 AU		921 Aug 16 j 11:49	0°♿	
	920 Sep 10 j 06:57	0°♿		max. Earth dist.	921 Aug 20 j 19:31	7°♿56'19	1.38775 AU
evening rise	920 Sep 12 j 09:59	3°♿31'09		evening rise	921 Aug 24 j 16:13	14°♿44'26	
desc. node	920 Sep 16 j 03:05	9°♿30'57			921 Sep 02 j 22:40	0°♿	
	920 Sep 29 j 16:53	0°♿		desc. node	921 Sep 03 j 00:04	0°♿05'31	
evening max el	920 Oct 16 j 16:38	21°♿30'40	23°13'42		921 Sep 24 j 12:08	0°♿	
retrograde	920 Oct 27 j 00:26	27°♿37'46		evening max el	921 Sep 29 j 04:56	5°♿05'39	24°33'05
evening set	920 Oct 31 j 22:09	25°♿36'19		retrograde	921 Oct 10 j 14:42	11°♿45'36	
asc. node	920 Nov 04 j 01:48	22°♿12'29		evening set	921 Oct 16 j 02:30	9°♿27'06	
inferior conj	920 Nov 06 j 06:57	19°♿14'07	0°45'24	min. Earth dist.	921 Oct 20 j 18:02	4°♿07'56	0.67444 AU
minimum elong	920 Nov 06 j 05:54	19°♿17'43	0°44'57	inferior conj	921 Oct 21 j 13:03	3°♿04'25	-0°08'28
min. Earth dist.	920 Nov 05 j 22:22	19°♿43'37	0.67726 AU	minimum elong	921 Oct 21 j 13:15	3°♿03'43	0°08'22
morning rise	920 Nov 11 j 13:35	13°♿05'18		transit middle	921 Oct 21 j 13:15	3°♿03'43	0°08'22
direct	920 Nov 15 j 19:47	11°♿24'49		transit begin	921 Oct 21 j 10:54	3°♿11'35	
morning max el	920 Nov 24 j 12:15	16°♿29'31	21°23'20	transit end	921 Oct 21 j 15:37	2°♿55'51	
	920 Dec 05 j 09:22	0°♿		asc. node	921 Oct 21 j 22:51	2°♿31'42	
desc. node	920 Dec 13 j 02:19	11°♿05'15			921 Oct 23 j 22:31	30°♿♿	
	920 Dec 25 j 11:22	0°♿		morning rise	921 Oct 27 j 00:05	27°♿01'12	
morning set	920 Dec 25 j 17:07	0°♿22'41		direct	921 Oct 30 j 17:20	25°♿41'48	
max. Earth dist.	921 Jan 01 j 21:42	11°♿57'39	1.42124 AU		921 Nov 07 j 07:30	0°♿	
				morning max el	921 Nov 07 j 10:40	0°♿07'55	20°10'01
superior conj	921 Jan 09 j 07:11	24°♿25'08	-2°03'13		921 Nov 29 j 01:01	0°♿	
minimum elong	921 Jan 09 j 06:26	24°♿21'54	2°03'13	desc. node	921 Nov 29 j 23:20	1°♿25'06	
	921 Jan 12 j 12:01	0°♿		morning set	921 Dec 04 j 13:56	8°♿30'05	
evening rise	921 Jan 20 j 10:53	14°♿16'57		max. Earth dist.	921 Dec 15 j 06:14	25°♿17'03	1.43749 AU
	921 Jan 29 j 08:05	0°♿			921 Dec 18 j 04:30	0°♿	

superior conj	921 Dec 20 j 21:36	4° Z 25'21	-1°52'11	minimum elong	922 Nov 30 j 02:21	12° X 45'32	1°21'33
minimum elong	921 Dec 20 j 15:42	4° Z 01'11	1°51'50		922 Dec 10 j 20:14	0° Z	
evening rise	922 Jan 02 j 18:40	26° Z 10'57		evening rise	922 Dec 15 j 05:01	7° Z 08'51	
	922 Jan 04 j 23:36	0° \approx			922 Dec 29 j 10:27	0° \approx	
asc. node	922 Jan 17 j 22:09	20° \approx 43'41		evening max el	923 Jan 04 j 01:27	7° \approx 07'55	18°32'01
evening max el	922 Jan 20 j 13:17	23° \approx 45'13	18°11'07	asc. node	923 Jan 04 j 19:11	7° \approx 51'13	
retrograde	922 Jan 27 j 00:48	27° \approx 11'10		retrograde	923 Jan 10 j 15:17	10° \approx 45'38	
evening set	922 Jan 29 j 21:16	26° \approx 29'38		evening set	923 Jan 13 j 17:04	9° \approx 52'59	
inferior conj	922 Feb 05 j 02:12	21° \approx 14'53	3°47'11	inferior conj	923 Jan 19 j 13:25	4° \approx 19'38	3°38'16
minimum elong	922 Feb 05 j 02:02	21° \approx 15'20	3°47'11	minimum elong	923 Jan 19 j 11:43	4° \approx 24'37	3°38'05
min. Earth dist.	922 Feb 07 j 18:54	18° \approx 22'58	0.62845 AU	min. Earth dist.	923 Jan 21 j 14:42	1° \approx 54'34	0.64589 AU
morning rise	922 Feb 11 j 05:47	15° \approx 14'34			923 Jan 23 j 08:22	30° R Z	
direct	922 Feb 18 j 05:17	12° \approx 34'35		morning rise	923 Jan 25 j 05:54	28° Z 12'35	
desc. node	922 Feb 25 j 22:29	15° \approx 17'12		direct	923 Feb 01 j 01:47	25° Z 21'01	
morning max el	922 Mar 04 j 03:48	20° \approx 28'55	27°46'46		923 Feb 11 j 02:26	0° \approx	
	922 Mar 12 j 08:55	0° X		desc. node	923 Feb 12 j 19:32	1° \approx 30'02	
	922 Mar 31 j 10:29	0° Y		morning max el	923 Feb 14 j 12:52	3° \approx 09'26	27°18'45
morning set	922 Apr 07 j 05:05	13° Y 02'25			923 Mar 06 j 17:23	0° X	
max. Earth dist.	922 Apr 12 j 16:17	24° Y 24'12	1.32799 AU	morning set	923 Mar 21 j 21:21	26° X 50'35	
					923 Mar 23 j 11:47	0° Y	
superior conj	922 Apr 14 j 19:16	28° Y 58'04	-0°11'31	max. Earth dist.	923 Mar 26 j 15:24	6° Y 22'56	1.33689 AU
minimum elong	922 Apr 14 j 19:49	29° Y 01'03	0°11'24				
behind sun begin	922 Apr 14 j 16:09	28° Y 41'15		superior conj	923 Mar 29 j 23:56	13° Y 23'19	-0°38'51
behind sun end	922 Apr 14 j 23:29	29° Y 20'51		minimum elong	923 Mar 30 j 01:51	13° Y 33'25	0°38'28
	922 Apr 15 j 06:43	0° X		asc. node	923 Apr 02 j 18:29	21° Y 25'05	
asc. node	922 Apr 15 j 21:27	1° X 19'47		evening rise	923 Apr 06 j 06:35	28° Y 50'47	
evening rise	922 Apr 21 j 19:32	14° X 05'33			923 Apr 06 j 19:50	0° X	
	922 Apr 29 j 20:02	0° II			923 Apr 24 j 16:19	0° II	
evening max el	922 May 15 j 15:09	22° II 14'14	23°42'17	evening max el	923 Apr 27 j 08:03	2° II 48'51	22°07'07
desc. node	922 May 24 j 21:43	28° II 21'39		retrograde	923 May 10 j 02:28	9° II 05'35	
retrograde	922 May 29 j 08:11	29° II 06'23		desc. node	923 May 11 j 18:45	8° II 59'16	
evening set	922 Jun 02 j 09:30	28° II 30'10		evening set	923 May 12 j 21:02	8° II 48'32	
min. Earth dist.	922 Jun 09 j 01:49	25° II 22'08	0.56087 AU	min. Earth dist.	923 May 21 j 13:57	5° II 05'19	0.55106 AU
inferior conj	922 Jun 11 j 07:09	24° II 01'37	-4°14'35	inferior conj	923 May 22 j 06:27	4° II 42'09	-2°53'07
minimum elong	922 Jun 11 j 00:49	24° II 11'14	4°13'25	minimum elong	923 May 21 j 23:14	4° II 52'17	2°50'57
morning rise	922 Jun 19 j 18:51	20° II 04'21		morning rise	923 May 31 j 03:00	0° II 48'25	
direct	922 Jun 22 j 11:36	19° II 45'59		direct	923 Jun 03 j 02:08	0° II 28'44	
morning max el	922 Jul 02 j 15:45	24° II 28'40	20°02'49	morning max el	923 Jun 14 j 21:33	6° II 00'17	21°25'56
	922 Jul 07 j 12:12	0° Z		asc. node	923 Jun 29 j 17:45	27° II 22'53	
asc. node	922 Jul 12 j 20:42	8° Z 15'17			923 Jul 01 j 02:29	0° Z	
morning set	922 Jul 20 j 19:10	23° Z 23'36		morning set	923 Jul 05 j 03:35	8° Z 09'35	
	922 Jul 24 j 00:49	0° Ω					
superior conj	922 Jul 28 j 13:44	9° Ω 12'56	1°46'10	superior conj	923 Jul 12 j 12:09	23° Z 34'02	1°40'28
minimum elong	922 Jul 28 j 13:17	9° Ω 10'44	1°46'09	minimum elong	923 Jul 12 j 10:28	23° Z 25'16	1°40'22
max. Earth dist.	922 Aug 03 j 00:12	19° Ω 50'47	1.36824 AU		923 Jul 15 j 15:21	0° Ω	
evening rise	922 Aug 06 j 12:21	27° Ω 03'50		max. Earth dist.	923 Jul 16 j 11:52	1° Ω 43'23	1.35148 AU
	922 Aug 08 j 21:29	0° II		evening rise	923 Jul 20 j 20:39	10° Ω 16'00	
desc. node	922 Aug 20 j 21:05	20° II 27'34			923 Aug 01 j 00:24	0° II	
	922 Aug 27 j 08:34	0° Ω		desc. node	923 Aug 07 j 18:06	10° II 30'05	
evening max el	922 Sep 11 j 16:45	18° Ω 44'32	25°45'20		923 Aug 22 j 21:17	0° Ω	
retrograde	922 Sep 24 j 00:22	25° Ω 47'04		evening max el	923 Aug 25 j 04:55	2° Ω 20'47	26°42'45
evening set	922 Sep 30 j 02:34	23° Ω 13'55		retrograde	923 Sep 07 j 04:45	9° Ω 35'19	
min. Earth dist.	922 Oct 04 j 10:19	18° Ω 30'16	0.66840 AU	evening set	923 Sep 13 j 20:15	6° Ω 52'30	
inferior conj	922 Oct 05 j 16:16	16° Ω 55'04	-1°04'48	min. Earth dist.	923 Sep 17 j 20:44	2° Ω 45'48	0.65888 AU
minimum elong	922 Oct 05 j 17:55	16° Ω 49'46	1°04'06	inferior conj	923 Sep 19 j 14:34	0° Ω 41'47	-2°01'59
asc. node	922 Oct 08 j 19:54	13° Ω 10'29		minimum elong	923 Sep 19 j 17:44	0° Ω 32'22	2°00'45
morning rise	922 Oct 11 j 09:32	11° Ω 00'16			923 Sep 20 j 04:42	30° R II	
direct	922 Oct 14 j 15:54	9° Ω 58'47		morning rise	923 Sep 25 j 15:44	24° II 58'37	
morning max el	922 Oct 21 j 16:36	13° Ω 55'56	19°10'46	asc. node	923 Sep 25 j 16:57	24° II 57'00	
	922 Nov 02 j 16:07	0° II		direct	923 Sep 28 j 13:30	24° II 11'27	
morning set	922 Nov 13 j 17:46	17° II 06'37		morning max el	923 Oct 05 j 04:29	27° II 49'21	18°27'30
desc. node	922 Nov 16 j 20:22	21° II 57'43			923 Oct 07 j 03:46	0° Ω	
	922 Nov 21 j 23:45	0° X		morning set	923 Oct 24 j 23:18	27° Ω 02'57	
max. Earth dist.	922 Nov 27 j 21:17	9° X 15'51	1.44780 AU		923 Oct 26 j 19:18	0° II	
				desc. node	923 Nov 03 j 17:26	12° II 38'45	
superior conj	922 Nov 30 j 10:55	13° X 19'27	-1°22'28	superior conj	923 Nov 09 j 11:50	21° II 44'53	-0°37'35

minimum elong	923 Nov 09 j 06:56	21° \mathbb{M} 25'38	0°36'57	behind sun end	924 Oct 19 j 07:06	1° \mathbb{M} 18'53	
max. Earth dist.	923 Nov 10 j 16:09	23° \mathbb{M} 36'11	1.45091 AU	desc. node	924 Oct 20 j 14:28	3° \mathbb{M} 24'28	
	923 Nov 14 j 17:55	0° \mathbb{M}		max. Earth dist.	924 Oct 23 j 11:01	7° \mathbb{M} 57'05	1.44659 AU
evening rise	923 Nov 25 j 15:50	17° \mathbb{M} 09'38		evening rise	924 Nov 04 j 06:42	26° \mathbb{M} 23'59	
	923 Dec 03 j 19:22	0° \mathbb{M}			924 Nov 06 j 14:49	0° \mathbb{M}	
greatest brilliancy	923 Dec 05 j 11:56	2° \mathbb{M} 38'23	-0.8m	greatest brilliancy	924 Nov 18 j 08:40	17° \mathbb{M} 47'26	-0.6m
evening max el	923 Dec 18 j 10:58	20° \mathbb{M} 35'25	19°10'21		924 Nov 27 j 03:12	0° \mathbb{M}	
asc. node	923 Dec 22 j 16:13	23° \mathbb{M} 53'14		evening max el	924 Nov 30 j 15:55	4° \mathbb{M} 04'04	20°04'22
retrograde	923 Dec 25 j 10:50	24° \mathbb{M} 35'16		retrograde	924 Dec 08 j 08:30	8° \mathbb{M} 34'38	
evening set	923 Dec 28 j 19:00	23° \mathbb{M} 30'19		asc. node	924 Dec 08 j 13:16	8° \mathbb{M} 34'25	
inferior conj	924 Jan 03 j 09:26	17° \mathbb{M} 40'31	3°15'36	evening set	924 Dec 12 j 00:40	7° \mathbb{M} 15'53	
minimum elong	924 Jan 03 j 06:55	17° \mathbb{M} 48'32	3°15'05	inferior conj	924 Dec 17 j 11:23	1° \mathbb{M} 12'34	2°42'38
min. Earth dist.	924 Jan 04 j 19:34	15° \mathbb{M} 51'58	0.65948 AU	minimum elong	924 Dec 17 j 08:40	1° \mathbb{M} 21'39	2°41'50
morning rise	924 Jan 08 j 18:36	11° \mathbb{M} 29'30			924 Dec 18 j 09:03	30° \mathbb{R} \mathbb{M}	
direct	924 Jan 15 j 04:32	8° \mathbb{M} 40'29		min. Earth dist.	924 Dec 18 j 07:53	0° \mathbb{M} 03'50	0.66911 AU
morning max el	924 Jan 27 j 22:33	16° \mathbb{M} 11'44	26°21'48	morning rise	924 Dec 22 j 16:29	24° \mathbb{M} 59'26	
desc. node	924 Jan 30 j 16:36	19° \mathbb{M} 07'17		direct	924 Dec 28 j 12:50	22° \mathbb{M} 23'36	
	924 Feb 08 j 09:23	0° \mathbb{M}		morning max el	925 Jan 09 j 07:24	29° \mathbb{M} 24'25	25°04'43
	924 Feb 27 j 13:42	0° \mathbb{M}			925 Jan 09 j 21:19	0° \mathbb{M}	
morning set	924 Mar 04 j 01:27	9° \mathbb{M} 58'24		desc. node	925 Jan 16 j 13:40	7° \mathbb{M} 43'50	
max. Earth dist.	924 Mar 08 j 03:31	17° \mathbb{M} 49'10	1.35030 AU		925 Feb 01 j 05:45	0° \mathbb{M}	
				morning set	925 Feb 14 j 12:15	22° \mathbb{M} 10'32	
superior conj	924 Mar 12 j 22:06	27° \mathbb{M} 24'27	-1°05'49	max. Earth dist.	925 Feb 18 j 04:32	28° \mathbb{M} 52'55	1.36799 AU
minimum elong	924 Mar 13 j 01:17	27° \mathbb{M} 40'46	1°05'15		925 Feb 18 j 18:55	0° \mathbb{M}	
	924 Mar 14 j 04:21	0° \mathbb{M}					
asc. node	924 Mar 19 j 15:33	11° \mathbb{M} 21'53		superior conj	925 Feb 24 j 10:44	10° \mathbb{M} 52'11	-1°30'35
evening rise	924 Mar 20 j 14:57	13° \mathbb{M} 22'47		minimum elong	925 Feb 24 j 14:44	11° \mathbb{M} 11'52	1°30'03
	924 Mar 29 j 06:25	0° \mathbb{M}		evening rise	925 Mar 04 j 18:20	27° \mathbb{M} 33'43	
evening max el	924 Apr 08 j 09:53	13° \mathbb{M} 48'08	20°41'44		925 Mar 05 j 23:34	0° \mathbb{M}	
retrograde	924 Apr 19 j 15:28	19° \mathbb{M} 14'37		asc. node	925 Mar 06 j 12:35	1° \mathbb{M} 04'40	
evening set	924 Apr 21 j 18:52	19° \mathbb{M} 03'32		evening max el	925 Mar 21 j 23:11	25° \mathbb{M} 25'10	19°33'28
desc. node	924 Apr 27 j 15:46	16° \mathbb{M} 57'00		retrograde	925 Mar 31 j 11:42	0° \mathbb{M} 00'16	
inferior conj	924 May 01 j 00:34	15° \mathbb{M} 05'46	-0°58'23		925 Mar 31 j 04:24	0° \mathbb{M}	
minimum elong	924 Apr 30 j 21:48	15° \mathbb{M} 09'44	0°57'22		925 Mar 31 j 19:02	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	924 May 02 j 02:44	14° \mathbb{M} 28'15	0.55043 AU	evening set	925 Apr 02 j 13:57	29° \mathbb{M} 47'57	
morning rise	924 May 10 j 00:03	10° \mathbb{M} 56'37		inferior conj	925 Apr 11 j 04:01	25° \mathbb{M} 43'11	0°57'08
direct	924 May 13 j 12:28	10° \mathbb{M} 29'57		minimum elong	925 Apr 11 j 06:22	25° \mathbb{M} 39'25	0°56'19
morning max el	924 May 26 j 17:37	16° \mathbb{M} 52'38	23°03'27	min. Earth dist.	925 Apr 13 j 17:11	24° \mathbb{M} 05'49	0.55917 AU
	924 Jun 06 j 04:48	0° \mathbb{M}		desc. node	925 Apr 14 j 12:49	23° \mathbb{M} 35'49	
asc. node	924 Jun 15 j 14:49	16° \mathbb{M} 55'13		morning rise	925 Apr 19 j 20:08	21° \mathbb{M} 02'45	
morning set	924 Jun 18 j 14:36	23° \mathbb{M} 04'17		direct	925 Apr 24 j 07:11	20° \mathbb{M} 17'57	
	924 Jun 21 j 20:51	0° \mathbb{M}		morning max el	925 May 08 j 08:40	27° \mathbb{M} 23'03	24°44'36
					925 May 10 j 21:59	0° \mathbb{M}	
superior conj	924 Jun 25 j 17:11	8° \mathbb{M} 15'19	1°28'54		925 May 30 j 04:29	0° \mathbb{M}	
minimum elong	924 Jun 25 j 14:51	8° \mathbb{M} 02'52	1°28'39	asc. node	925 Jun 02 j 11:52	6° \mathbb{M} 45'02	
max. Earth dist.	924 Jun 28 j 08:50	13° \mathbb{M} 52'16	1.33844 AU	morning set	925 Jun 03 j 02:31	8° \mathbb{M} 01'58	
evening rise	924 Jul 03 j 09:30	24° \mathbb{M} 08'17					
	924 Jul 06 j 10:01	0° \mathbb{M}		superior conj	925 Jun 10 j 02:23	23° \mathbb{M} 08'42	1°12'38
desc. node	924 Jul 24 j 15:07	0° \mathbb{M} 04'29		minimum elong	925 Jun 09 j 23:57	22° \mathbb{M} 55'29	1°12'15
	924 Jul 24 j 13:51	0° \mathbb{M}		max. Earth dist.	925 Jun 11 j 14:05	26° \mathbb{M} 22'17	1.32932 AU
evening max el	924 Aug 06 j 16:42	15° \mathbb{M} 43'57	27°17'51		925 Jun 13 j 06:37	0° \mathbb{M}	
retrograde	924 Aug 20 j 03:28	23° \mathbb{M} 02'41		evening rise	925 Jun 17 j 08:03	8° \mathbb{M} 29'24	
evening set	924 Aug 27 j 04:56	20° \mathbb{M} 18'32			925 Jun 28 j 19:55	0° \mathbb{M}	
min. Earth dist.	924 Aug 30 j 22:56	16° \mathbb{M} 48'03	0.64573 AU	desc. node	925 Jul 11 j 12:08	18° \mathbb{M} 59'09	
inferior conj	924 Sep 02 j 05:39	14° \mathbb{M} 19'45	-2°57'44	evening max el	925 Jul 20 j 02:19	28° \mathbb{M} 42'00	27°24'22
minimum elong	924 Sep 02 j 10:07	14° \mathbb{M} 07'39	2°56'15		925 Jul 21 j 12:22	0° \mathbb{M}	
morning rise	924 Sep 08 j 16:10	8° \mathbb{M} 51'37		retrograde	925 Aug 02 j 20:14	6° \mathbb{M} 00'18	
direct	924 Sep 11 j 07:42	8° \mathbb{M} 15'13		evening set	925 Aug 10 j 01:18	3° \mathbb{M} 26'44	
asc. node	924 Sep 11 j 14:01	8° \mathbb{M} 15'35		min. Earth dist.	925 Aug 13 j 15:22	0° \mathbb{M} 27'00	0.62905 AU
morning max el	924 Sep 17 j 19:48	11° \mathbb{M} 42'51	18°01'07		925 Aug 14 j 02:45	30° \mathbb{R} \mathbb{M}	
	924 Sep 30 j 09:57	0° \mathbb{M}		inferior conj	925 Aug 16 j 10:48	27° \mathbb{M} 43'09	-3°48'39
morning set	924 Oct 05 j 09:21	8° \mathbb{M} 22'40		minimum elong	925 Aug 16 j 15:51	27° \mathbb{M} 30'50	3°47'22
	924 Oct 18 j 11:30	0° \mathbb{M}		morning rise	925 Aug 23 j 07:42	22° \mathbb{M} 33'12	
				direct	925 Aug 25 j 19:30	22° \mathbb{M} 04'25	
superior conj	924 Oct 18 j 22:02	0° \mathbb{M} 42'26	0°11'14	asc. node	925 Aug 29 j 11:05	23° \mathbb{M} 07'31	
minimum elong	924 Oct 18 j 23:22	0° \mathbb{M} 47'47	0°11'02	morning max el	925 Sep 01 j 11:42	25° \mathbb{M} 30'13	17°52'26
behind sun begin	924 Oct 18 j 15:38	0° \mathbb{M} 16'39			925 Sep 05 j 05:57	0° \mathbb{M}	

morning set	925 Sep 17 j 18:57	20° \mathbb{M} 50'06		superior conj	926 Sep 10 j 22:35	22° \mathbb{M} 24'35	1°22'15
	925 Sep 22 j 23:59	0° \mathbb{L}		minimum elong	926 Sep 11 j 02:57	22° \mathbb{M} 43'51	1°21'48
					926 Sep 15 j 07:17	0° \mathbb{L}	
superior conj	925 Sep 29 j 08:53	10° \mathbb{L} 54'08	0°52'48	max. Earth dist.	926 Sep 18 j 12:53	5° \mathbb{L} 27'39	1.41911 AU
minimum elong	925 Sep 29 j 13:27	11° \mathbb{L} 13'18	0°52'13	evening rise	926 Sep 24 j 08:11	14° \mathbb{L} 56'01	
max. Earth dist.	925 Oct 06 j 02:34	21° \mathbb{L} 59'30	1.43549 AU	desc. node	926 Sep 24 j 08:30	14° \mathbb{L} 57'13	
desc. node	925 Oct 07 j 11:29	24° \mathbb{L} 11'53			926 Oct 04 j 01:51	0° \mathbb{M}	
	925 Oct 11 j 03:10	0° \mathbb{M}			926 Oct 26 j 08:28	0° \mathbb{X}	
evening rise	925 Oct 14 j 14:18	5° \mathbb{M} 24'36		evening max el	926 Oct 27 j 09:09	1° \mathbb{X} 04'09	22°27'50
	925 Oct 31 j 00:24	0° \mathbb{X}		retrograde	926 Nov 06 j 01:40	6° \mathbb{X} 49'43	
evening max el	925 Nov 13 j 15:16	17° \mathbb{X} 33'34	21°11'30	evening set	926 Nov 10 j 15:41	4° \mathbb{X} 58'39	
retrograde	925 Nov 22 j 06:05	22° \mathbb{X} 40'40		asc. node	926 Nov 12 j 07:21	3° \mathbb{X} 23'29	
asc. node	925 Nov 25 j 10:19	21° \mathbb{X} 44'09			926 Nov 15 j 00:29	30° \mathbb{R} \mathbb{M}	
evening set	925 Nov 26 j 08:09	21° \mathbb{X} 06'30		inferior conj	926 Nov 16 j 00:05	28° \mathbb{M} 38'42	1°14'43
inferior conj	925 Dec 01 j 16:57	14° \mathbb{X} 53'01	2°01'46	minimum elong	926 Nov 15 j 22:27	28° \mathbb{M} 44'23	1°14'04
minimum elong	925 Dec 01 j 14:33	15° \mathbb{X} 01'15	2°00'55	min. Earth dist.	926 Nov 15 j 21:38	28° \mathbb{M} 47'11	0.67739 AU
min. Earth dist.	925 Dec 02 j 01:25	14° \mathbb{X} 23'50	0.67500 AU	morning rise	926 Nov 21 j 05:04	22° \mathbb{M} 27'30	
morning rise	925 Dec 06 j 20:46	8° \mathbb{X} 39'46		direct	926 Nov 25 j 19:31	20° \mathbb{M} 33'45	
direct	925 Dec 12 j 02:10	6° \mathbb{X} 23'33		morning max el	926 Dec 05 j 03:38	26° \mathbb{M} 04'22	22°10'26
morning max el	925 Dec 22 j 16:06	12° \mathbb{X} 41'55	23°37'40		926 Dec 08 j 17:15	0° \mathbb{X}	
desc. node	926 Jan 03 j 10:43	27° \mathbb{X} 02'50		desc. node	926 Dec 21 j 07:45	16° \mathbb{X} 51'48	
	926 Jan 05 j 13:56	0° \mathbb{Z}			926 Dec 30 j 03:23	0° \mathbb{Z}	
	926 Jan 25 j 02:18	0° \mathbb{A}		morning set	927 Jan 07 j 06:19	12° \mathbb{Z} 47'01	
morning set	926 Jan 26 j 23:39	3° \mathbb{A} 10'55		max. Earth dist.	927 Jan 12 j 20:26	21° \mathbb{Z} 59'25	1.40994 AU
max. Earth dist.	926 Jan 30 j 23:23	10° \mathbb{A} 04'35	1.38870 AU		927 Jan 17 j 12:53	0° \mathbb{A}	
superior conj	926 Feb 07 j 10:05	23° \mathbb{A} 37'12	-1°50'33	superior conj	927 Jan 20 j 15:21	5° \mathbb{A} 27'41	-2°02'08
minimum elong	926 Feb 07 j 13:50	23° \mathbb{A} 54'45	1°50'15	minimum elong	927 Jan 20 j 16:56	5° \mathbb{A} 34'42	2°02'07
	926 Feb 10 j 18:40	0° \mathbb{H}		evening rise	927 Jan 30 j 23:09	24° \mathbb{A} 24'19	
evening rise	926 Feb 16 j 14:09	11° \mathbb{H} 16'49			927 Feb 02 j 23:23	0° \mathbb{H}	
asc. node	926 Feb 21 j 09:37	20° \mathbb{H} 28'14		asc. node	927 Feb 08 j 06:39	9° \mathbb{H} 26'07	
	926 Feb 26 j 22:34	0° \mathbb{Y}		evening max el	927 Feb 16 j 05:55	20° \mathbb{H} 24'21	18°16'21
evening max el	926 Mar 04 j 22:50	7° \mathbb{Y} 39'45	18°44'52	retrograde	927 Feb 23 j 07:53	23° \mathbb{H} 56'15	
retrograde	926 Mar 13 j 00:24	11° \mathbb{Y} 34'59		evening set	927 Feb 25 j 20:49	23° \mathbb{H} 30'00	
evening set	926 Mar 15 j 07:41	11° \mathbb{Y} 17'01		inferior conj	927 Mar 04 j 22:01	18° \mathbb{H} 47'39	3°20'07
inferior conj	926 Mar 23 j 02:27	6° \mathbb{Y} 55'29	2°25'58	minimum elong	927 Mar 05 j 01:07	18° \mathbb{H} 40'54	3°19'36
minimum elong	926 Mar 23 j 06:39	6° \mathbb{Y} 47'41	2°24'50	min. Earth dist.	927 Mar 08 j 07:48	15° \mathbb{H} 51'52	0.59587 AU
min. Earth dist.	926 Mar 26 j 10:15	4° \mathbb{Y} 28'24	0.57543 AU	morning rise	927 Mar 12 j 03:08	13° \mathbb{H} 09'25	
morning rise	926 Mar 31 j 02:33	1° \mathbb{Y} 42'03		direct	927 Mar 18 j 13:48	11° \mathbb{H} 15'53	
desc. node	926 Apr 01 j 09:52	1° \mathbb{Y} 10'50		desc. node	927 Mar 19 j 06:54	11° \mathbb{H} 17'15	
direct	926 Apr 05 j 16:04	0° \mathbb{Y} 25'54		morning max el	927 Apr 01 j 21:15	19° \mathbb{H} 01'49	27°18'17
morning max el	926 Apr 20 j 00:26	7° \mathbb{Y} 57'55	26°14'20		927 Apr 11 j 03:53	0° \mathbb{Y}	
	926 May 06 j 11:47	0° \mathbb{Z}			927 Apr 29 j 03:01	0° \mathbb{Z}	
morning set	926 May 18 j 13:41	22° \mathbb{Z} 56'51		morning set	927 May 02 j 22:26	7° \mathbb{Z} 43'15	
asc. node	926 May 20 j 08:54	26° \mathbb{Z} 46'33		asc. node	927 May 07 j 05:56	16° \mathbb{Z} 55'03	
	926 May 21 j 20:43	0° \mathbb{I}		max. Earth dist.	927 May 09 j 13:20	21° \mathbb{Z} 57'57	1.32262 AU
superior conj	926 May 25 j 13:43	8° \mathbb{I} 07'06	0°52'32	superior conj	927 May 10 j 01:27	23° \mathbb{Z} 04'32	0°29'24
minimum elong	926 May 25 j 11:40	7° \mathbb{I} 55'51	0°52'09	minimum elong	927 May 10 j 00:11	22° \mathbb{Z} 57'31	0°29'08
max. Earth dist.	926 May 26 j 00:44	9° \mathbb{I} 07'37	1.32409 AU		927 May 13 j 05:11	0° \mathbb{I}	
evening rise	926 Jun 01 j 13:12	23° \mathbb{I} 09'34		evening rise	927 May 16 j 22:34	8° \mathbb{I} 00'47	
	926 Jun 04 j 21:49	0° \mathbb{O}			927 May 28 j 09:40	0° \mathbb{O}	
	926 Jun 22 j 19:19	0° \mathbb{O}		evening max el	927 Jun 14 j 05:54	22° \mathbb{O} 38'33	25°59'54
desc. node	926 Jun 28 j 09:09	6° \mathbb{O} 57'03		desc. node	927 Jun 15 j 06:08	23° \mathbb{O} 34'42	
evening max el	926 Jul 02 j 07:22	11° \mathbb{O} 02'39	26°58'15	retrograde	927 Jun 28 j 06:31	29° \mathbb{O} 49'42	
retrograde	926 Jul 16 j 05:51	18° \mathbb{O} 18'05		evening set	927 Jul 04 j 11:25	28° \mathbb{O} 16'42	
evening set	926 Jul 23 j 05:00	16° \mathbb{O} 09'07		min. Earth dist.	927 Jul 08 j 18:31	25° \mathbb{O} 38'33	0.58907 AU
min. Earth dist.	926 Jul 26 j 21:32	13° \mathbb{O} 28'30	0.60961 AU	inferior conj	927 Jul 12 j 01:44	23° \mathbb{O} 11'29	-4°50'31
inferior conj	926 Jul 30 j 02:40	10° \mathbb{O} 43'27	-4°29'12	minimum elong	927 Jul 12 j 02:53	23° \mathbb{O} 09'20	4°50'27
minimum elong	926 Jul 30 j 06:52	10° \mathbb{O} 34'24	4°28'32	morning rise	927 Jul 19 j 20:35	18° \mathbb{O} 44'56	
morning rise	926 Aug 06 j 10:31	5° \mathbb{O} 54'25		direct	927 Jul 22 j 08:35	18° \mathbb{O} 24'03	
direct	926 Aug 08 j 21:11	5° \mathbb{O} 30'34		morning max el	927 Jul 30 j 08:49	22° \mathbb{O} 13'29	18°32'34
morning max el	926 Aug 16 j 01:04	9° \mathbb{O} 03'09	18°02'29	asc. node	927 Aug 03 j 05:10	26° \mathbb{O} 39'56	
asc. node	926 Aug 16 j 08:08	9° \mathbb{O} 20'37			927 Aug 05 j 12:30	0° \mathbb{O}	
	926 Aug 29 j 16:24	0° \mathbb{M}		morning set	927 Aug 15 j 13:23	18° \mathbb{O} 01'14	
morning set	926 Aug 31 j 21:56	4° \mathbb{M} 07'18			927 Aug 21 j 18:43	0° \mathbb{M}	

superior conj	927 Aug 24 j 10:52	5°♎02'13	1°39'27	superior conj	928 Aug 06 j 16:05	18°♊31'01	1°46'12
minimum elong	927 Aug 24 j 13:25	5°♎14'05	1°39'17	minimum elong	928 Aug 06 j 16:37	18°♊33'39	1°46'12
max. Earth dist.	927 Aug 31 j 18:30	18°♎14'44	1.39956 AU		928 Aug 12 j 16:58	0°♎	
evening rise	927 Sep 05 j 00:17	25°♎29'39		max. Earth dist.	928 Aug 12 j 22:08	0°♎23'48	1.37928 AU
	927 Sep 07 j 17:39	0°♎		evening rise	928 Aug 16 j 16:43	7°♎12'04	
desc. node	927 Sep 11 j 05:29	5°♎37'00		desc. node	928 Aug 28 j 02:30	26°♎07'03	
	927 Sep 27 j 19:33	0°♎			928 Aug 30 j 15:12	0°♎	
evening max el	927 Oct 09 j 23:03	14°♎37'42	23°47'56	evening max el	928 Sep 21 j 10:56	28°♎14'41	25°05'08
retrograde	927 Oct 20 j 18:02	20°♎59'03			928 Sep 23 j 07:52	0°♎	
evening set	927 Oct 25 j 21:40	18°♎50'20		retrograde	928 Oct 03 j 06:18	5°♎05'05	
asc. node	927 Oct 30 j 04:24	13°♎58'03		evening set	928 Oct 09 j 00:26	2°♎39'44	
inferior conj	927 Oct 31 j 07:04	12°♎27'41	0°22'56		928 Oct 11 j 14:28	30°♎♎	
minimum elong	927 Oct 31 j 06:31	12°♎29'33	0°22'43	min. Earth dist.	928 Oct 13 j 12:33	27°♎35'44	0.67231 AU
min. Earth dist.	927 Oct 30 j 18:07	13°♎11'43	0.67649 AU	inferior conj	928 Oct 14 j 12:10	26°♎18'21	-0°32'10
morning rise	927 Nov 05 j 15:20	6°♎20'59		minimum elong	928 Oct 14 j 12:58	26°♎15'42	0°31'48
direct	927 Nov 09 j 15:55	4°♎49'33		asc. node	928 Oct 16 j 01:27	24°♎18'30	
morning max el	927 Nov 17 j 21:33	9°♎36'17	20°50'35	morning rise	928 Oct 20 j 01:40	20°♎18'38	
	927 Dec 03 j 10:56	0°♎		direct	928 Oct 23 j 14:03	19°♎07'18	
desc. node	927 Dec 08 j 04:46	7°♎02'13		morning max el	928 Oct 30 j 23:22	23°♎19'29	19°43'02
morning set	927 Dec 17 j 10:49	21°♎11'40			928 Nov 05 j 13:34	0°♎	
	927 Dec 23 j 00:40	0°♎		greatest brilliancy	928 Nov 13 j 11:02	11°♎17'35	-0.7m
max. Earth dist.	927 Dec 26 j 01:10	4°♎52'06	1.42878 AU	desc. node	928 Nov 24 j 01:47	27°♎28'11	
				morning set	928 Nov 25 j 07:33	29°♎23'06	
superior conj	928 Jan 01 j 21:06	16°♎10'25	-2°00'44		928 Nov 25 j 17:05	0°♎	
minimum elong	928 Jan 01 j 18:13	15°♎58'13	2°00'39	max. Earth dist.	928 Dec 07 j 13:19	18°♎32'34	1.44265 AU
	928 Jan 09 j 21:24	0°♎					
evening rise	928 Jan 13 j 17:24	6°♎47'36		superior conj	928 Dec 12 j 00:09	25°♎40'03	-1°41'52
asc. node	928 Jan 26 j 03:41	27°♎49'40		minimum elong	928 Dec 11 j 16:29	25°♎09'06	1°41'14
	928 Jan 27 j 17:18	0°♎			928 Dec 14 j 16:19	0°♎	
evening max el	928 Jan 30 j 17:12	3°♎29'14	18°07'30	evening rise	928 Dec 25 j 16:34	18°♎18'59	
retrograde	928 Feb 06 j 07:03	6°♎53'31			929 Jan 01 j 14:33	0°♎	
evening set	928 Feb 09 j 00:53	6°♎17'44		asc. node	929 Jan 12 j 00:45	15°♎28'43	
inferior conj	928 Feb 15 j 12:06	1°♎14'11	3°44'08	evening max el	929 Jan 13 j 05:45	16°♎47'01	18°17'47
minimum elong	928 Feb 15 j 13:06	1°♎11'43	3°44'05	retrograde	929 Jan 19 j 17:19	20°♎16'54	
	928 Feb 16 j 17:42	30°♎♎		evening set	929 Jan 22 j 15:55	19°♎30'46	
min. Earth dist.	928 Feb 18 j 12:36	28°♎14'44	0.61700 AU	inferior conj	929 Jan 28 j 16:48	14°♎07'35	3°45'24
morning rise	928 Feb 21 j 23:57	25°♎20'00		minimum elong	929 Jan 28 j 15:54	14°♎10'05	3°45'21
direct	928 Feb 28 j 21:37	22°♎53'55		min. Earth dist.	929 Jan 31 j 02:56	11°♎25'37	0.63621 AU
desc. node	928 Mar 05 j 03:57	24°♎09'38		morning rise	929 Feb 03 j 15:09	8°♎03'48	
	928 Mar 13 j 05:18	0°♎		direct	929 Feb 10 j 13:52	5°♎17'22	
morning max el	928 Mar 14 j 00:26	0°♎46'30	27°47'13	desc. node	929 Feb 20 j 01:00	9°♎19'55	
	928 Apr 04 j 06:19	0°♎		morning max el	929 Feb 24 j 08:23	13°♎10'25	27°39'01
morning set	928 Apr 16 j 02:47	22°♎13'30			929 Mar 09 j 21:06	0°♎	
	928 Apr 19 j 20:04	0°♎			929 Mar 27 j 18:20	0°♎	
max. Earth dist.	928 Apr 21 j 23:56	4°♎38'39	1.32494 AU	morning set	929 Mar 31 j 00:21	6°♎20'02	
				max. Earth dist.	929 Apr 05 j 04:29	16°♎56'25	1.33128 AU
superior conj	928 Apr 23 j 11:52	7°♎53'55	0°03'57				
minimum elong	928 Apr 23 j 11:41	7°♎52'55	0°03'53	superior conj	929 Apr 07 j 19:12	22°♎29'44	-0°23'03
behind sun begin	928 Apr 23 j 06:42	7°♎25'48		minimum elong	929 Apr 07 j 20:20	22°♎35'45	0°22'49
behind sun end	928 Apr 23 j 16:39	8°♎20'03		asc. node	929 Apr 10 j 00:01	27°♎13'47	
asc. node	928 Apr 23 j 02:57	7°♎05'22			929 Apr 11 j 06:50	0°♎	
evening rise	928 Apr 30 j 10:02	22°♎54'36		evening rise	929 Apr 14 j 21:47	7°♎44'47	
	928 May 03 j 20:13	0°♎			929 Apr 26 j 16:02	0°♎	
	928 May 22 j 13:41	0°♎		evening max el	929 May 07 j 12:10	14°♎03'16	23°01'10
evening max el	928 May 25 j 21:55	3°♎31'34	24°36'23	desc. node	929 May 19 j 00:13	20°♎35'16	
desc. node	928 Jun 01 j 03:10	8°♎19'30		retrograde	929 May 20 j 21:33	20°♎43'23	
retrograde	928 Jun 08 j 20:07	10°♎34'16		evening set	929 May 24 j 08:34	20°♎17'08	
evening set	928 Jun 13 j 18:26	9°♎39'31		min. Earth dist.	929 May 31 j 21:22	16°♎55'40	0.55574 AU
min. Earth dist.	928 Jun 19 j 09:07	6°♎46'35	0.56997 AU	inferior conj	929 Jun 02 j 12:47	15°♎58'30	-3°45'30
inferior conj	928 Jun 22 j 04:59	4°♎57'10	-4°40'04	minimum elong	929 Jun 02 j 05:21	16°♎09'18	3°43'45
minimum elong	928 Jun 22 j 01:12	5°♎03'18	4°39'41	morning rise	929 Jun 11 j 04:42	12°♎05'11	
morning rise	928 Jun 30 j 10:42	0°♎51'36		direct	929 Jun 13 j 23:34	11°♎46'48	
direct	928 Jul 03 j 01:34	0°♎32'34		morning max el	929 Jun 24 j 20:27	16°♎48'45	20°35'59
morning max el	928 Jul 12 j 08:00	4°♎51'16	19°23'49		929 Jul 04 j 20:41	0°♎	
asc. node	928 Jul 20 j 02:13	14°♎50'26		asc. node	929 Jul 06 j 23:15	3°♎40'03	
	928 Jul 28 j 09:06	0°♎		morning set	929 Jul 13 j 19:35	16°♎59'43	
morning set	928 Jul 29 j 13:33	2°♎21'19			929 Jul 20 j 02:42	0°♎	

superior conj	929 Jul 21 j 09:20	2°Ω36'43	1°44'33	superior conj	930 Jul 05 j 10:58	17°Ω08'17	1°36'13
minimum elong	929 Jul 21 j 08:18	2°Ω31'24	1°44'31	minimum elong	930 Jul 05 j 08:56	16°Ω57'35	1°36'02
max. Earth dist.	929 Jul 26 j 05:03	12°Ω13'39	1.36069 AU	max. Earth dist.	930 Jul 08 j 20:22	24°Ω11'08	1.34543 AU
evening rise	929 Jul 30 j 06:09	19°Ω55'12			930 Jul 11 j 17:36	0°Ω	
	929 Aug 04 j 21:10	0°൬		evening rise	930 Jul 13 j 11:48	3°Ω26'49	
desc. node	929 Aug 14 j 23:32	16°൬21'44			930 Jul 28 j 17:06	0°൬	
	929 Aug 24 j 15:23	0°Ω		desc. node	930 Aug 01 j 20:34	6°൬14'02	
evening max el	929 Sep 03 j 22:37	11°Ω52'27	26°11'59	evening max el	930 Aug 17 j 10:45	25°൬25'01	27°00'48
retrograde	929 Sep 16 j 13:53	19°Ω01'55			930 Aug 23 j 01:19	0°Ω	
evening set	929 Sep 22 j 22:05	16°Ω23'31		retrograde	930 Aug 30 j 16:12	2°Ω42'53	
min. Earth dist.	929 Sep 27 j 02:32	11°Ω55'44	0.66476 AU		930 Sep 06 j 11:29	30°൬	
inferior conj	929 Sep 28 j 13:32	10°Ω07'30	-1°29'06	evening set	930 Sep 06 j 12:20	29°൬58'17	
minimum elong	929 Sep 28 j 15:50	10°Ω00'20	1°28'09	min. Earth dist.	930 Sep 10 j 09:52	26°൬07'08	0.65370 AU
asc. node	929 Oct 02 j 22:31	5°Ω21'02		inferior conj	930 Sep 12 j 09:06	23°൬51'52	-2°25'59
morning rise	929 Oct 04 j 10:00	4°Ω17'32		minimum elong	930 Sep 12 j 12:52	23°൬41'04	2°24'36
direct	929 Oct 07 j 12:20	3°Ω22'46		morning rise	930 Sep 18 j 14:06	18°൬14'36	
morning max el	929 Oct 14 j 08:12	7°Ω10'42	18°50'22	asc. node	930 Sep 19 j 19:32	17°൬45'46	
	929 Oct 30 j 11:36	0°൬		direct	930 Sep 21 j 08:48	17°൬32'34	
morning set	929 Nov 04 j 20:54	8°൬29'47		morning max el	930 Sep 27 j 21:54	21°൬05'27	18°14'05
desc. node	929 Nov 10 j 22:49	18°൬04'35			930 Oct 04 j 18:47	0°Ω	
	929 Nov 18 j 12:59	0°♌		morning set	930 Oct 16 j 14:55	19°Ω03'01	
max. Earth dist.	929 Nov 20 j 06:06	2°♌41'35	1.44996 AU	desc. node	930 Oct 23 j 08:08	0°൬	
					930 Oct 28 j 19:53	8°൬48'12	
superior conj	929 Nov 21 j 05:46	4°♌14'38	-1°04'43	superior conj	930 Oct 31 j 08:06	12°൬47'08	-0°16'37
minimum elong	929 Nov 20 j 22:01	3°♌44'11	1°03'48	minimum elong	930 Oct 31 j 05:57	12°൬38'38	0°16'19
evening rise	929 Dec 06 j 16:54	28°♌51'49		max. Earth dist.	930 Nov 03 j 00:50	17°൬02'36	1.44998 AU
	929 Dec 07 j 09:48	0°♌			930 Nov 11 j 07:26	0°♌	
evening max el	929 Dec 27 j 16:58	0°≈11'23	18°46'18	evening rise	930 Nov 16 j 18:16	8°♌29'54	
	929 Dec 27 j 12:34	0°≈		greatest brilliancy	930 Nov 28 j 17:44	27°♌01'40	-0.7m
asc. node	929 Dec 29 j 21:49	2°≈09'48			930 Nov 30 j 17:08	0°♌	
retrograde	930 Jan 03 j 10:24	3°≈57'48		evening max el	930 Dec 11 j 00:44	13°♌39'28	19°31'35
evening set	930 Jan 06 j 14:36	3°≈00'14		asc. node	930 Dec 16 j 18:51	17°♌38'50	
	930 Jan 10 j 01:30	30°♌♌		retrograde	930 Dec 18 j 07:03	17°♌51'27	
inferior conj	930 Jan 12 j 08:09	27°♌19'35	3°30'07	evening set	930 Dec 21 j 18:21	16°♌40'59	
minimum elong	930 Jan 12 j 06:01	27°♌26'05	3°29'47	inferior conj	930 Dec 27 j 06:59	10°♌45'19	3°02'41
min. Earth dist.	930 Jan 14 j 02:54	25°♌09'02	0.65209 AU	minimum elong	930 Dec 27 j 04:19	10°♌54'02	3°02'02
morning rise	930 Jan 17 j 21:02	21°♌10'18		min. Earth dist.	930 Dec 28 j 11:13	9°♌13'15	0.66409 AU
direct	930 Jan 24 j 13:12	18°♌18'06		morning rise	931 Jan 01 j 14:02	4°♌33'07	
desc. node	930 Feb 06 j 22:02	26°♌11'37		direct	931 Jan 07 j 18:37	1°♌48'17	
morning max el	930 Feb 06 j 18:08	26°♌01'47	26°57'37	morning max el	931 Jan 20 j 03:19	9°♌08'37	25°50'46
	930 Feb 10 j 10:27	0°≈		desc. node	931 Jan 24 j 19:05	14°♌16'09	
	930 Mar 03 j 10:06	0°♌			931 Feb 05 j 14:03	0°≈	
morning set	930 Mar 14 j 11:59	19°♌52'37		morning set	931 Feb 23 j 22:42	0°♌	
max. Earth dist.	930 Mar 18 j 23:04	28°♌40'24	1.34196 AU	max. Earth dist.	931 Feb 25 j 09:22	2°♌38'15	
	930 Mar 19 j 14:47	0°♌			931 Mar 01 j 05:39	9°♌51'49	1.35727 AU
superior conj	930 Mar 22 j 21:24	6°♌45'19	-0°50'26	superior conj	931 Mar 06 j 15:54	20°♌33'07	-1°16'44
minimum elong	930 Mar 22 j 23:53	6°♌58'16	0°49'57	minimum elong	931 Mar 06 j 19:31	20°♌51'21	1°16'09
asc. node	930 Mar 27 j 21:05	17°♌15'58			931 Mar 11 j 06:56	0°♌	
evening rise	930 Mar 30 j 07:54	22°♌24'46		evening rise	931 Mar 14 j 14:24	6°♌48'03	
	930 Apr 03 j 01:18	0°♌		asc. node	931 Mar 14 j 18:09	7°♌07'11	
evening max el	930 Apr 19 j 08:16	24°♌45'53	21°29'07		931 Mar 27 j 13:12	0°♌	
	930 Apr 27 j 07:17	0°♌		evening max el	931 Apr 01 j 15:05	6°♌00'58	20°10'32
retrograde	930 May 01 j 12:50	0°♌42'48		retrograde	931 Apr 12 j 02:55	11°♌04'17	
evening set	930 May 03 j 22:29	0°♌29'41		evening set	931 Apr 14 j 04:34	10°♌53'21	
desc. node	930 May 05 j 21:14	0°♌00'58		desc. node	931 Apr 22 j 18:17	7°♌10'11	
	930 May 05 j 22:28	30°♌♌		inferior conj	931 Apr 23 j 04:39	6°♌54'47	-0°07'29
inferior conj	930 May 13 j 08:14	26°♌28'56	-2°06'55	minimum elong	931 Apr 23 j 04:18	6°♌55'18	0°07'22
minimum elong	930 May 13 j 02:26	26°♌37'03	2°04'57	transit middle	931 Apr 23 j 04:18	6°♌55'18	0°07'22
min. Earth dist.	930 May 13 j 10:00	26°♌26'26	0.54955 AU	transit begin	931 Apr 23 j 00:45	7°♌00'36	
morning rise	930 May 22 j 07:01	22°♌30'45		transit end	931 Apr 23 j 07:52	6°♌50'00	
direct	930 May 25 j 10:25	22°♌09'11		min. Earth dist.	931 Apr 24 j 23:34	5°♌51'05	0.55301 AU
morning max el	930 Jun 06 j 21:55	28°♌03'34	22°06'08	morning rise	931 May 02 j 02:16	2°♌33'29	
	930 Jun 08 j 20:34	0°♌		direct	931 May 05 j 23:35	2°♌00'29	
asc. node	930 Jun 23 j 20:19	22°♌59'23		morning max el	931 May 19 j 14:59	8°♌43'17	23°46'48
	930 Jun 27 j 08:03	0°♌			931 Jun 04 j 03:01	0°♌	
morning set	930 Jun 28 j 05:21	1°♌50'30					

asc. node	931 Jun 10 j 17:22	12° Π 39'56		morning set	932 May 27 j 04:46	1° Π 44'19	
morning set	931 Jun 12 j 16:58	16° Π 47'10		asc. node	932 May 27 j 14:26	2° Π 35'25	
	931 Jun 18 j 20:36	0° \mathfrak{D}					
superior conj	931 Jun 19 j 18:03	1° \mathfrak{D} 55'41	1°22'32	superior conj	932 Jun 03 j 04:21	16° Π 51'41	1°04'33
minimum elong	931 Jun 19 j 15:36	1° \mathfrak{D} 42'33	1°22'13	minimum elong	932 Jun 03 j 02:02	16° Π 38'59	1°04'09
max. Earth dist.	931 Jun 21 j 21:10	6° \mathfrak{D} 29'33	1.33411 AU	max. Earth dist.	932 Jun 04 j 05:21	19° Π 08'08	1.32668 AU
evening rise	931 Jun 27 j 05:13	17° \mathfrak{D} 33'08			932 Jun 09 j 07:08	0° \mathfrak{D}	
	931 Jul 03 j 17:01	0° \mathcal{O}		evening rise	932 Jun 10 j 06:55	2° \mathfrak{D} 03'23	
desc. node	931 Jul 19 j 17:36	25° \mathcal{O} 33'24			932 Jun 25 j 14:25	0° \mathcal{O}	
	931 Jul 23 j 03:01	0° \mathfrak{M}		desc. node	932 Jul 05 j 14:35	14° \mathcal{O} 06'07	
evening max el	931 Jul 30 j 22:07	8° \mathfrak{M} 40'03	27°24'27	evening max el	932 Jul 12 j 06:15	21° \mathcal{O} 23'55	27°17'17
retrograde	931 Aug 13 j 12:27	15° \mathfrak{M} 58'33		retrograde	932 Jul 26 j 01:57	28° \mathcal{O} 40'06	
evening set	931 Aug 20 j 16:14	13° \mathfrak{M} 17'40		evening set	932 Aug 02 j 06:02	26° \mathcal{O} 15'26	
min. Earth dist.	931 Aug 24 j 08:15	10° \mathfrak{M} 00'52	0.63908 AU	min. Earth dist.	932 Aug 05 j 20:10	23° \mathcal{O} 25'39	0.62116 AU
inferior conj	931 Aug 26 j 20:21	7° \mathfrak{M} 24'54	-3°20'11	inferior conj	932 Aug 08 j 20:16	20° \mathcal{O} 39'28	-4°07'32
minimum elong	931 Aug 27 j 01:10	7° \mathfrak{M} 12'20	3°18'43	minimum elong	932 Aug 09 j 01:11	20° \mathcal{O} 28'05	4°06'28
morning rise	931 Sep 02 j 11:09	2° \mathfrak{M} 03'44		morning rise	932 Aug 15 j 21:46	15° \mathcal{O} 37'57	
direct	931 Sep 05 j 00:47	1° \mathfrak{M} 30'53		direct	932 Aug 18 j 08:56	15° \mathcal{O} 11'23	
asc. node	931 Sep 06 j 16:34	1° \mathfrak{M} 44'46		asc. node	932 Aug 23 j 13:37	17° \mathcal{O} 12'41	
morning max el	931 Sep 11 j 13:44	4° \mathfrak{M} 56'51	17°55'05	morning max el	932 Aug 25 j 04:52	18° \mathcal{O} 38'36	17°54'17
	931 Sep 27 j 23:12	0° \mathfrak{L}			932 Sep 02 j 10:26	0° \mathfrak{M}	
morning set	931 Sep 28 j 11:48	0° \mathfrak{L} 54'09		morning set	932 Sep 10 j 05:28	13° \mathfrak{M} 44'39	
					932 Sep 19 j 08:45	0° \mathfrak{L}	
superior conj	931 Oct 11 j 03:41	22° \mathfrak{L} 13'07	0°30'11	superior conj	932 Sep 21 j 02:11	2° \mathfrak{L} 58'46	1°06'52
minimum elong	931 Oct 11 j 06:53	22° \mathfrak{L} 26'13	0°29'45	minimum elong	932 Sep 21 j 06:59	3° \mathfrak{L} 19'20	1°06'18
desc. node	931 Oct 15 j 16:55	29° \mathfrak{L} 35'02		max. Earth dist.	932 Sep 28 j 08:45	15° \mathfrak{L} 09'30	1.42914 AU
	931 Oct 15 j 23:09	0° \mathfrak{M}		desc. node	932 Oct 01 j 13:55	20° \mathfrak{L} 21'39	
max. Earth dist.	931 Oct 16 j 18:41	1° \mathfrak{M} 17'57	1.44272 AU	evening rise	932 Oct 05 j 13:57	26° \mathfrak{L} 41'56	
evening rise	931 Oct 27 j 04:00	17° \mathfrak{M} 33'31			932 Oct 07 j 16:49	0° \mathfrak{M}	
	931 Nov 04 j 07:59	0° \mathfrak{J}			932 Oct 28 j 05:23	0° \mathfrak{J}	
evening max el	931 Nov 24 j 03:28	27° \mathfrak{J} 09'03	20°31'34	evening max el	932 Nov 06 j 00:25	10° \mathfrak{J} 38'42	21°43'07
	931 Nov 27 j 08:25	0° \mathfrak{Z}		retrograde	932 Nov 15 j 01:39	16° \mathfrak{J} 01'49	
retrograde	931 Dec 02 j 04:47	1° \mathfrak{Z} 54'06		evening set	932 Nov 19 j 08:42	14° \mathfrak{J} 20'22	
asc. node	931 Dec 03 j 15:51	1° \mathfrak{Z} 42'03		asc. node	932 Nov 19 j 12:52	14° \mathfrak{J} 11'53	
evening set	931 Dec 06 j 01:00	0° \mathfrak{Z} 28'57		inferior conj	932 Nov 24 j 17:08	8° \mathfrak{J} 03'37	1°42'26
	931 Dec 06 j 15:30	30° \mathfrak{R} \mathfrak{J}		minimum elong	932 Nov 24 j 15:01	8° \mathfrak{J} 10'57	1°41'38
inferior conj	931 Dec 11 j 10:42	24° \mathfrak{J} 21'07	2°26'07	min. Earth dist.	932 Nov 24 j 20:47	7° \mathfrak{J} 51'02	0.67646 AU
minimum elong	931 Dec 11 j 08:04	24° \mathfrak{J} 30'03	2°25'16	morning rise	932 Nov 29 j 21:12	1° \mathfrak{J} 51'14	
min. Earth dist.	931 Dec 12 j 01:57	23° \mathfrak{J} 29'21	0.67213 AU		932 Dec 03 j 01:49	30° \mathfrak{R} \mathfrak{M}	
morning rise	931 Dec 16 j 14:58	18° \mathfrak{J} 07'56		direct	932 Dec 04 j 20:08	29° \mathfrak{M} 44'39	
direct	931 Dec 22 j 05:09	15° \mathfrak{J} 39'45			932 Dec 06 j 16:21	0° \mathfrak{J}	
morning max el	932 Jan 02 j 11:39	22° \mathfrak{J} 22'56	24°28'16	morning max el	932 Dec 14 j 21:11	5° \mathfrak{J} 42'17	23°00'07
	932 Jan 09 j 03:58	0° \mathfrak{Z}		desc. node	932 Dec 28 j 13:10	22° \mathfrak{J} 45'06	
desc. node	932 Jan 11 j 16:09	3° \mathfrak{Z} 12'29			933 Jan 02 j 14:14	0° \mathfrak{Z}	
	932 Jan 29 j 21:47	0° \approx		morning set	933 Jan 18 j 10:31	24° \mathfrak{Z} 46'20	
morning set	932 Feb 07 j 10:59	14° \approx 21'38			933 Jan 21 j 13:06	0° \approx	
max. Earth dist.	932 Feb 11 j 03:11	20° \approx 54'40	1.37655 AU	max. Earth dist.	933 Jan 22 j 22:39	2° \approx 23'42	1.39787 AU
	932 Feb 16 j 00:36	0° \mathfrak{H}					
superior conj	932 Feb 17 j 23:27	3° \mathfrak{H} 44'20	-1°39'50	superior conj	933 Jan 30 j 15:42	16° \approx 07'15	-1°56'45
minimum elong	932 Feb 18 j 03:31	4° \mathfrak{H} 03'58	1°39'23	minimum elong	933 Jan 30 j 18:48	16° \approx 21'29	1°56'35
evening rise	932 Feb 26 j 14:56	20° \mathfrak{H} 48'09			933 Feb 07 j 00:51	0° \mathfrak{H}	
asc. node	932 Feb 29 j 15:11	26° \mathfrak{H} 42'35		evening rise	933 Feb 09 j 06:35	4° \mathfrak{H} 17'02	
	932 Mar 02 j 08:36	0° \mathfrak{Y}		asc. node	933 Feb 15 j 12:13	15° \mathfrak{H} 55'55	
evening max el	932 Mar 14 j 09:06	17° \mathfrak{Y} 54'35	19°10'22		933 Feb 25 j 03:17	0° \mathfrak{Y}	
retrograde	932 Mar 23 j 05:15	22° \mathfrak{Y} 10'41		evening max el	933 Feb 25 j 12:11	0° \mathfrak{Y} 22'05	18°30'14
evening set	932 Mar 25 j 09:33	21° \mathfrak{Y} 56'15		retrograde	933 Mar 05 j 02:21	4° \mathfrak{Y} 05'45	
inferior conj	932 Apr 02 j 15:24	17° \mathfrak{Y} 45'00	1°38'57	evening set	933 Mar 07 j 12:02	3° \mathfrak{Y} 44'31	
minimum elong	932 Apr 02 j 19:00	17° \mathfrak{Y} 38'53	1°37'49		933 Mar 13 j 23:30	30° \mathfrak{R} \mathfrak{H}	
min. Earth dist.	932 Apr 05 j 14:38	15° \mathfrak{Y} 44'49	0.56533 AU	inferior conj	933 Mar 14 j 22:54	29° \mathfrak{H} 13'58	2°53'03
desc. node	932 Apr 08 j 15:18	13° \mathfrak{Y} 56'27		minimum elong	933 Mar 15 j 02:53	29° \mathfrak{H} 06'03	2°52'10
morning rise	932 Apr 11 j 01:31	12° \mathfrak{Y} 50'26		min. Earth dist.	933 Mar 18 j 09:07	26° \mathfrak{H} 31'52	0.58380 AU
direct	932 Apr 16 j 00:04	11° \mathfrak{Y} 53'46		morning rise	933 Mar 22 j 14:56	23° \mathfrak{H} 48'39	
morning max el	932 Apr 30 j 05:27	19° \mathfrak{Y} 11'19	25°25'08	desc. node	933 Mar 26 j 12:20	22° \mathfrak{H} 28'14	
	932 May 09 j 07:54	0° \mathfrak{B}		direct	933 Mar 28 j 14:16	22° \mathfrak{H} 17'04	
	932 May 26 j 08:52	0° \mathfrak{I}		morning max el	933 Apr 11 j 23:10	29° \mathfrak{H} 56'01	26°45'33
					933 Apr 12 j 00:48	0° \mathfrak{Y}	

	933 May 03 j 04:07	0°♄		morning max el	934 Mar 24 j 22:55	11°♄16'54	27°35'08
morning set	933 May 11 j 15:07	16°♄35'55			934 Apr 08 j 14:27	0°♄	
asc. node	933 May 14 j 11:29	22°♄40'05			934 Apr 25 j 07:30	0°♄	
	933 May 17 j 20:05	0°♄		morning set	934 Apr 25 j 22:14	1°♄15'50	
				asc. node	934 May 01 j 08:32	12°♄49'31	
superior conj	933 May 18 j 16:02	1°♄49'41	0°43'04	max. Earth dist.	934 May 02 j 05:24	14°♄43'22	1.32306 AU
minimum elong	933 May 18 j 14:16	1°♄39'58	0°42'42				
max. Earth dist.	933 May 18 j 17:21	1°♄56'54	1.32298 AU	superior conj	934 May 03 j 03:25	16°♄43'52	0°18'50
evening rise	933 May 25 j 14:06	16°♄48'23		minimum elong	934 May 03 j 02:34	16°♄39'14	0°18'38
	933 Jun 01 j 04:39	0°♄			934 May 09 j 05:37	0°♄	
	933 Jun 21 j 01:05	0°♄		evening rise	934 May 10 j 00:34	1°♄40'41	
desc. node	933 Jun 22 j 11:36	1°♄32'58			934 May 25 j 09:59	0°♄	
evening max el	933 Jun 24 j 08:31	3°♄25'03	26°37'04	evening max el	934 Jun 06 j 03:47	14°♄40'05	25°26'49
retrograde	933 Jul 08 j 07:58	10°♄39'07		desc. node	934 Jun 09 j 08:38	17°♄26'30	
evening set	933 Jul 15 j 01:14	8°♄44'00		retrograde	934 Jun 20 j 04:38	21°♄49'40	
min. Earth dist.	933 Jul 18 j 21:55	6°♄07'03	0.60089 AU	evening set	934 Jun 25 j 21:38	20°♄33'19	
inferior conj	933 Jul 22 j 05:25	3°♄26'55	-4°41'15	min. Earth dist.	934 Jun 30 j 15:50	17°♄50'42	0.58045 AU
minimum elong	933 Jul 22 j 08:37	3°♄20'25	4°40'54	inferior conj	934 Jul 03 j 20:14	15°♄37'09	-4°50'50
	933 Jul 27 j 00:23	30°♄		minimum elong	934 Jul 03 j 19:25	15°♄38'35	4°50'49
morning rise	933 Jul 29 j 18:00	28°♄47'43		morning rise	934 Jul 11 j 19:47	11°♄20'18	
direct	933 Aug 01 j 05:01	28°♄25'19		direct	934 Jul 14 j 08:38	11°♄00'29	
	933 Aug 06 j 02:58	0°♄		morning max el	934 Jul 22 j 20:50	15°♄00'59	18°51'52
morning max el	933 Aug 08 j 16:18	2°♄03'19	18°12'50	asc. node	934 Jul 28 j 07:44	21°♄38'15	
asc. node	933 Aug 10 j 10:41	3°♄55'49			934 Aug 02 j 09:38	0°♄	
morning set	933 Aug 24 j 14:19	27°♄19'05		morning set	934 Aug 08 j 09:53	11°♄24'50	
	933 Aug 26 j 00:23	0°♄					
				superior conj	934 Aug 16 j 22:28	28°♄01'47	1°43'27
superior conj	933 Sep 03 j 02:18	15°♄00'32	1°30'57	minimum elong	934 Aug 17 j 00:08	28°♄09'44	1°43'23
minimum elong	933 Sep 03 j 05:58	15°♄17'11	1°30'37		934 Aug 17 j 23:24	0°♄	
max. Earth dist.	933 Sep 10 j 17:01	28°♄21'21	1.41102 AU	max. Earth dist.	934 Aug 23 j 20:42	10°♄48'35	1.39080 AU
	933 Sep 11 j 16:22	0°♄		evening rise	934 Aug 27 j 19:06	17°♄40'55	
evening rise	933 Sep 15 j 16:27	6°♄37'37			934 Sep 04 j 06:18	0°♄	
desc. node	933 Sep 18 j 10:55	11°♄05'13		desc. node	934 Sep 05 j 07:56	1°♄41'23	
	933 Sep 30 j 21:17	0°♄			934 Sep 25 j 07:21	0°♄	
evening max el	933 Oct 19 j 16:14	24°♄10'02	23°01'42	evening max el	934 Oct 02 j 04:57	7°♄44'53	24°21'31
	933 Oct 28 j 05:08	0°♄		retrograde	934 Oct 13 j 11:03	14°♄20'19	
retrograde	933 Oct 29 j 20:09	0°♄11'56		evening set	934 Oct 18 j 20:39	12°♄04'26	
	933 Oct 31 j 09:42	30°♄		min. Earth dist.	934 Oct 23 j 13:28	6°♄40'03	0.67511 AU
evening set	933 Nov 03 j 15:48	28°♄13'11		inferior conj	934 Oct 24 j 06:53	5°♄41'34	-0°00'04
asc. node	933 Nov 06 j 09:54	25°♄19'35		minimum elong	934 Oct 24 j 06:53	5°♄41'34	0°00'04
min. Earth dist.	933 Nov 08 j 17:26	22°♄15'29	0.67740 AU	transit middle	934 Oct 24 j 06:53	5°♄41'34	0°00'04
inferior conj	933 Nov 09 j 00:27	21°♄51'19	0°53'15	transit begin	934 Oct 24 j 04:09	5°♄50'46	
minimum elong	933 Nov 08 j 23:14	21°♄55'30	0°52'45	transit end	934 Oct 24 j 09:37	5°♄32'23	
morning rise	933 Nov 14 j 06:35	15°♄41'44		asc. node	934 Oct 24 j 06:58	5°♄41'17	
direct	933 Nov 18 j 14:51	13°♄57'54			934 Oct 29 j 05:22	30°♄	
morning max el	933 Nov 27 j 11:18	19°♄09'17	21°35'12	morning rise	934 Oct 29 j 17:08	29°♄37'15	
	933 Dec 06 j 10:29	0°♄		direct	934 Nov 02 j 12:14	28°♄14'46	
desc. node	933 Dec 15 j 10:11	12°♄44'00			934 Nov 07 j 03:54	0°♄	
	933 Dec 26 j 19:00	0°♄		morning max el	934 Nov 10 j 08:32	2°♄45'58	20°20'02
morning set	933 Dec 29 j 04:57	3°♄48'23			934 Nov 30 j 07:19	0°♄	
max. Earth dist.	934 Jan 04 j 22:33	14°♄42'36	1.41842 AU	desc. node	934 Dec 02 j 07:13	3°♄01'27	
				morning set	934 Dec 08 j 03:00	11°♄57'47	
superior conj	934 Jan 12 j 11:32	27°♄29'46	-2°03'25	max. Earth dist.	934 Dec 18 j 05:59	27°♄54'49	1.43542 AU
minimum elong	934 Jan 12 j 11:28	27°♄29'28	2°03'26		934 Dec 19 j 13:05	0°♄	
	934 Jan 13 j 21:55	0°♄					
evening rise	934 Jan 23 j 09:50	17°♄06'43		superior conj	934 Dec 24 j 06:01	7°♄41'08	-1°55'03
	934 Jan 30 j 13:48	0°♄		minimum elong	934 Dec 24 j 00:53	7°♄19'55	1°54'46
asc. node	934 Feb 02 j 09:14	4°♄40'08		evening rise	935 Jan 05 j 20:28	29°♄08'21	
evening max el	934 Feb 08 j 21:22	13°♄15'47	18°10'10		935 Jan 06 j 08:19	0°♄	
retrograde	934 Feb 15 j 17:05	16°♄42'56		asc. node	935 Jan 20 j 06:17	22°♄46'06	
evening set	934 Feb 18 j 08:00	16°♄12'54		evening max el	935 Jan 23 j 09:35	26°♄27'11	18°09'39
inferior conj	934 Feb 25 j 02:49	11°♄21'32	3°33'32	retrograde	935 Jan 29 j 21:22	29°♄52'10	
minimum elong	934 Feb 25 j 05:04	11°♄16'22	3°33'16	evening set	935 Feb 01 j 17:11	29°♄12'07	
min. Earth dist.	934 Feb 28 j 09:41	8°♄20'55	0.60495 AU	inferior conj	935 Feb 07 j 23:38	24°♄00'21	3°47'01
morning rise	934 Mar 04 j 00:09	5°♄35'09		minimum elong	935 Feb 07 j 23:45	24°♄00'01	3°47'01
direct	934 Mar 10 j 16:41	3°♄26'27		min. Earth dist.	935 Feb 10 j 18:31	21°♄05'49	0.62554 AU
desc. node	934 Mar 13 j 09:23	3°♄46'15		morning rise	935 Feb 14 j 05:14	18°♄01'31	

direct	935 Feb 21 j 04:38	15° \approx 24'38		min. Earth dist.	936 Jan 24 j 12:49	4° \approx 32'21	0.64349 AU
desc. node	935 Feb 28 j 06:26	17° \approx 41'31		morning rise	936 Jan 28 j 03:09	0° \approx 55'50	
morning max el	935 Mar 07 j 04:17	23° \approx 18'43	27°48'04		936 Jan 29 j 08:30	30° \approx 3	
	935 Mar 13 j 03:49	0° \approx		direct	936 Feb 04 j 00:01	28° \approx 05'13	
	935 Apr 01 j 20:00	0° \approx			936 Feb 10 j 05:07	0° \approx	
morning set	935 Apr 10 j 00:03	15° \approx 37'13		desc. node	936 Feb 15 j 03:28	3° \approx 38'49	
max. Earth dist.	935 Apr 15 j 13:45	27° \approx 15'12	1.32706 AU	morning max el	936 Feb 17 j 13:07	5° \approx 54'54	27°25'03
	935 Apr 16 j 20:23	0° \approx			936 Mar 06 j 22:52	0° \approx	
				morning set	936 Mar 23 j 17:47	29° \approx 30'11	
superior conj	935 Apr 17 j 12:47	1° \approx 28'41	-0°07'24		936 Mar 23 j 23:51	0° \approx	
minimum elong	935 Apr 17 j 13:09	1° \approx 30'36	0°07'20	max. Earth dist.	936 Mar 28 j 14:26	9° \approx 19'07	1.33529 AU
behind sun begin	935 Apr 17 j 08:30	1° \approx 05'30					
behind sun end	935 Apr 17 j 17:47	1° \approx 55'42		superior conj	936 Mar 31 j 18:12	15° \approx 56'37	-0°34'42
asc. node	935 Apr 18 j 05:35	2° \approx 59'44		minimum elong	936 Mar 31 j 19:54	16° \approx 05'40	0°34'20
evening rise	935 Apr 24 j 12:24	16° \approx 33'57		asc. node	936 Apr 04 j 02:38	23° \approx 05'52	
	935 May 01 j 04:42	0° \approx			936 Apr 07 j 08:22	0° \approx	
evening max el	935 May 18 j 18:28	25° \approx 12'29	23°56'33	evening rise	936 Apr 07 j 23:40	1° \approx 20'32	
	935 May 24 j 18:21	0° \approx			936 Apr 24 j 06:15	0° \approx	
desc. node	935 May 27 j 05:40	1° \approx 12'29		evening max el	936 Apr 29 j 10:26	5° \approx 15'47	22°20'54
retrograde	935 Jun 01 j 13:14	2° \approx 16'40		retrograde	936 May 12 j 09:06	12° \approx 17'25	
evening set	935 Jun 05 j 20:00	1° \approx 36'09		desc. node	936 May 13 j 02:43	12° \approx 16'12	
	935 Jun 09 j 15:19	30° \approx 11		evening set	936 May 15 j 07:35	11° \approx 58'24	
min. Earth dist.	935 Jun 12 j 05:22	28° \approx 13'23	0.56305 AU	min. Earth dist.	936 May 23 j 17:22	8° \approx 12'22	0.55203 AU
inferior conj	935 Jun 14 j 14:57	27° \approx 14'05	-4°22'52	inferior conj	936 May 24 j 16:09	7° \approx 14'12	-3°08'15
minimum elong	935 Jun 14 j 09:11	27° \approx 12'59	4°21'56	minimum elong	936 May 24 j 08:41	7° \approx 15'45	3°06'06
morning rise	935 Jun 23 j 01:06	23° \approx 14'54		morning rise	936 Jun 02 j 11:38	3° \approx 15'15	
direct	935 Jun 25 j 17:21	22° \approx 14'21		direct	936 Jun 05 j 09:35	3° \approx 13'00	
morning max el	935 Jul 05 j 15:38	27° \approx 12'28	19°52'01	morning max el	936 Jun 16 j 23:06	9° \approx 00'26	21°12'26
	935 Jul 08 j 04:05	0° \approx		asc. node	936 Jul 01 j 01:52	29° \approx 10'50	
asc. node	935 Jul 15 j 04:48	10° \approx 06'50			936 Jul 01 j 12:33	0° \approx	
morning set	935 Jul 23 j 12:52	25° \approx 53'30		morning set	936 Jul 06 j 20:44	10° \approx 37'29	
	935 Jul 25 j 13:27	0° \approx					
				superior conj	936 Jul 14 j 06:29	26° \approx 04'39	1°41'44
superior conj	935 Jul 31 j 09:19	11° \approx 04'33	1°46'24	minimum elong	936 Jul 14 j 04:57	25° \approx 56'42	1°41'39
minimum elong	935 Jul 31 j 09:07	11° \approx 04'34	1°46'25		936 Jul 16 j 04:20	0° \approx	
max. Earth dist.	935 Aug 06 j 01:00	22° \approx 04'06	1.37106 AU	max. Earth dist.	936 Jul 18 j 11:23	4° \approx 37'18	1.35377 AU
evening rise	935 Aug 09 j 21:06	29° \approx 05'52		evening rise	936 Jul 22 j 17:58	12° \approx 05'52	
	935 Aug 09 j 23:08	0° \approx			936 Aug 01 j 08:32	0° \approx	
desc. node	935 Aug 23 j 04:58	22° \approx 05'33		desc. node	936 Aug 09 j 02:02	12° \approx 11'28	
	935 Aug 28 j 12:11	0° \approx			936 Aug 22 j 11:32	0° \approx	
evening max el	935 Sep 14 j 16:49	21° \approx 23'24	25°35'19	evening max el	936 Aug 27 j 04:52	5° \approx 00'10	26°35'26
retrograde	935 Sep 26 j 21:21	28° \approx 22'49		retrograde	936 Sep 09 j 02:32	12° \approx 13'31	
evening set	935 Oct 02 j 21:29	25° \approx 51'39		evening set	936 Sep 15 j 16:17	9° \approx 31'36	
min. Earth dist.	935 Oct 07 j 06:24	21° \approx 02'38	0.66955 AU	min. Earth dist.	936 Sep 19 j 17:46	5° \approx 19'32	0.66052 AU
inferior conj	935 Oct 08 j 10:39	19° \approx 32'06	-0°56'08	inferior conj	936 Sep 21 j 09:49	3° \approx 19'27	-1°53'20
minimum elong	935 Oct 08 j 12:05	19° \approx 27'29	0°55'32	minimum elong	936 Sep 21 j 12:46	3° \approx 10'35	1°52'10
asc. node	935 Oct 11 j 04:01	16° \approx 13'13			936 Sep 24 j 08:30	30° \approx 11	
morning rise	935 Oct 14 j 02:53	13° \approx 35'53		morning rise	936 Sep 27 j 09:44	27° \approx 11'34	
direct	935 Oct 17 j 10:47	12° \approx 31'53		asc. node	936 Sep 27 j 01:03	27° \approx 11'47	
morning max el	935 Oct 24 j 13:26	16° \approx 32'29	19°18'36	direct	936 Sep 30 j 08:38	26° \approx 11'45	
	935 Nov 03 j 20:24	0° \approx			936 Oct 06 j 14:14	0° \approx	
morning set	935 Nov 17 j 04:18	20° \approx 12'54		morning max el	936 Oct 07 j 00:37	0° \approx 25'33	18°32'56
desc. node	935 Nov 19 j 04:14	23° \approx 12'14		morning set	936 Oct 27 j 05:31	0° \approx 10'11	
	935 Nov 23 j 07:41	0° \approx			936 Oct 27 j 03:13	0° \approx	
max. Earth dist.	935 Nov 30 j 20:33	11° \approx 49'54	1.44672 AU	desc. node	936 Nov 05 j 01:17	14° \approx 12'13	
superior conj	935 Dec 03 j 22:38	16° \approx 43'27	-1°28'07	superior conj	936 Nov 12 j 00:07	25° \approx 10'30	-0°44'57
minimum elong	935 Dec 03 j 14:05	16° \approx 49'28	1°27'16	minimum elong	936 Nov 11 j 18:19	24° \approx 14'45	0°44'12
	935 Dec 12 j 04:38	0° \approx		max. Earth dist.	936 Nov 12 j 15:13	26° \approx 10'50	1.45091 AU
evening rise	935 Dec 18 j 10:14	10° \approx 31'45			936 Nov 15 j 02:04	0° \approx	
	935 Dec 30 j 12:28	0° \approx		evening rise	936 Nov 28 j 00:36	20° \approx 42'15	
evening max el	936 Jan 06 j 21:56	9° \approx 48'37	18°27'47		936 Dec 04 j 01:44	0° \approx	
asc. node	936 Jan 07 j 03:20	10° \approx 02'10		greatest brilliancy	936 Dec 07 j 00:43	4° \approx 39'57	-0.8m
retrograde	936 Jan 13 j 10:53	13° \approx 23'53		evening max el	936 Dec 20 j 07:57	23° \approx 15'22	19°03'32
evening set	936 Jan 16 j 11:51	12° \approx 32'53		asc. node	936 Dec 24 j 00:22	26° \approx 31'45	
inferior conj	936 Jan 22 j 09:16	7° \approx 02'02	3°40'37	retrograde	936 Dec 27 j 05:55	27° \approx 31'30	
minimum elong	936 Jan 22 j 07:46	7° \approx 06'25	3°40'28	evening set	936 Dec 30 j 13:01	26° \approx 30'28	

inferior conj	937 Jan 05 j 04:11	20° S 20'51	3°19'44	evening set	937 Dec 14 j 18:14	9° S 52'49	
minimum elong	937 Jan 05 j 01:44	20° S 28'31	3°19'16	inferior conj	937 Dec 20 j 05:23	3° S 51'20	2°48'09
min. Earth dist.	937 Jan 06 j 16:28	18° S 26'31	0.65771 AU	minimum elong	937 Dec 20 j 02:40	4° S 00'24	2°47'24
morning rise	937 Jan 10 j 14:12	14° S 10'09		min. Earth dist.	937 Dec 21 j 03:51	2° S 36'30	0.66794 AU
direct	937 Jan 17 j 01:49	11° S 20'03			937 Dec 23 j 05:09	30° R S	
morning max el	937 Jan 29 j 22:57	18° S 54'56	26°31'48	morning rise	937 Dec 25 j 10:53	27° S 38'17	
desc. node	937 Feb 01 j 00:30	21° S 04'49		direct	937 Dec 31 j 09:25	24° S 59'51	
	937 Feb 08 j 09:09	0° \approx			938 Jan 10 j 02:55	0° S	
	937 Feb 27 j 23:05	0° H		morning max el	938 Jan 12 j 07:55	2° S 06'26	25°17'00
morning set	937 Mar 06 j 23:55	12° H 44'22		desc. node	938 Jan 18 j 21:31	9° S 33'23	
max. Earth dist.	937 Mar 11 j 04:20	20° H 49'43	1.34802 AU		938 Feb 02 j 12:01	0° \approx	
				morning set	938 Feb 17 j 13:41	25° \approx 05'42	
superior conj	937 Mar 15 j 17:27	0° Y 01'09	-1°01'50		938 Feb 20 j 06:05	0° H	
minimum elong	937 Mar 15 j 20:28	0° Y 16'40	1°01'17	max. Earth dist.	938 Feb 21 j 06:33	1° H 53'58	1.36510 AU
	937 Mar 15 j 17:13	0° Y					
asc. node	937 Mar 21 j 23:40	13° Y 03'50		superior conj	938 Feb 27 j 07:42	13° H 34'11	-1°27'05
evening rise	937 Mar 23 j 08:31	15° Y 54'20		minimum elong	938 Feb 27 j 11:38	13° H 53'39	1°26'32
	937 Mar 30 j 13:06	0° S			938 Mar 07 j 11:06	0° Y	
evening max el	937 Apr 11 j 10:32	16° S 47'37	20°53'29	evening rise	938 Mar 07 j 12:47	0° Y 08'28	
retrograde	937 Apr 22 j 22:22	22° S 22'23		asc. node	938 Mar 08 j 20:43	2° Y 48'51	
evening set	937 Apr 25 j 02:51	22° S 11'01		evening max el	938 Mar 24 j 22:10	28° Y 18'47	19°42'27
desc. node	937 Apr 29 j 23:44	20° S 34'28			938 Mar 26 j 20:41	0° S	
inferior conj	937 May 04 j 10:02	18° S 12'53	-1°16'37	retrograde	938 Apr 03 j 16:41	3° S 00'56	
minimum elong	937 May 04 j 06:25	18° S 18'02	1°15'20	evening set	938 Apr 05 j 18:25	2° S 49'10	
min. Earth dist.	937 May 05 j 05:58	17° S 44'32	0.54988 AU		938 Apr 12 j 11:20	30° R Y	
morning rise	937 May 13 j 09:39	14° S 07'13		inferior conj	938 Apr 14 j 11:17	28° Y 46'31	0°40'55
direct	937 May 16 j 19:21	13° S 42'15		minimum elong	938 Apr 14 j 13:02	28° Y 43'46	0°40'18
morning max el	937 May 29 j 20:26	19° S 57'45	22°48'25	desc. node	938 Apr 16 j 20:44	27° Y 16'50	
	937 Jun 07 j 05:37	0° II		min. Earth dist.	938 Apr 16 j 20:16	27° Y 17'32	0.55726 AU
asc. node	937 Jun 17 j 22:54	18° II 38'38		morning rise	938 Apr 23 j 05:06	24° Y 11'05	
morning set	937 Jun 21 j 07:26	25° II 30'58		direct	938 Apr 27 j 12:23	23° Y 29'45	
	937 Jun 23 j 10:20	0° S			938 May 10 j 23:03	0° S	
superior conj	937 Jun 28 j 10:41	10° S 43'21	1°31'00	morning max el	938 May 11 j 11:49	0° S 29'54	24°29'54
minimum elong	937 Jun 28 j 08:25	10° S 31'16	1°30'45		938 May 31 j 15:19	0° II	
max. Earth dist.	937 Jul 01 j 06:50	16° S 42'29	1.34009 AU	asc. node	938 Jun 04 j 19:58	8° II 26'20	
evening rise	937 Jul 06 j 05:01	26° S 42'17		morning set	938 Jun 05 j 19:19	10° II 28'41	
	937 Jul 07 j 21:37	0° Q					
	937 Jul 25 j 16:11	0° H		superior conj	938 Jun 12 j 19:24	25° II 35'39	1°15'23
desc. node	937 Jul 26 j 23:04	1° H 50'49		minimum elong	938 Jun 12 j 16:57	25° II 22'22	1°15'01
evening max el	937 Aug 09 j 16:41	18° H 25'34	27°14'19	max. Earth dist.	938 Jun 14 j 10:57	29° II 09'29	1.33040 AU
retrograde	937 Aug 23 j 02:14	25° H 44'30			938 Jun 14 j 20:21	0° S	
evening set	937 Aug 30 j 02:30	22° H 59'44		evening rise	938 Jun 20 j 02:20	11° S 00'07	
min. Earth dist.	937 Sep 02 j 21:18	19° H 24'07	0.64789 AU		938 Jun 30 j 04:01	0° Q	
inferior conj	937 Sep 05 j 02:07	16° H 58'51	-2°49'33	desc. node	938 Jul 13 j 20:04	20° Q 52'37	
minimum elong	937 Sep 05 j 06:25	16° H 47'01	2°48'04		938 Jul 21 j 14:50	0° H	
morning rise	937 Sep 11 j 11:10	11° H 28'21		evening max el	938 Jul 23 j 02:46	1° H 28'28	27°25'26
asc. node	937 Sep 13 j 22:06	10° H 50'54		retrograde	938 Aug 05 j 19:59	8° H 47'10	
direct	937 Sep 14 j 03:25	10° H 50'39		evening set	938 Aug 13 j 00:57	6° H 11'15	
morning max el	937 Sep 20 j 15:36	14° H 19'24	18°03'56	min. Earth dist.	938 Aug 16 j 15:21	3° H 07'21	0.63174 AU
	937 Oct 01 j 17:08	0° S		inferior conj	938 Aug 19 j 08:56	0° H 25'04	-3°41'30
morning set	937 Oct 08 j 11:29	11° S 16'51		minimum elong	938 Aug 19 j 13:58	0° H 12'34	3°40'09
	937 Oct 19 j 20:14	0° H			938 Aug 19 j 19:03	30° R Q	
superior conj	937 Oct 22 j 07:39	3° H 58'41	0°04'06	morning rise	938 Aug 26 j 04:14	25° Q 12'06	
minimum elong	937 Oct 22 j 08:09	4° H 00'42	0°04'02	direct	938 Aug 28 j 16:23	24° Q 42'24	
behind sun begin	937 Oct 21 j 21:47	3° H 19'15		asc. node	938 Aug 31 j 19:08	25° Q 29'11	
behind sun end	937 Oct 22 j 18:30	4° H 42'05		morning max el	938 Sep 04 j 07:34	28° Q 08'05	17°52'30
desc. node	937 Oct 22 j 22:19	4° H 57'21			938 Sep 06 j 00:37	0° H	
max. Earth dist.	937 Oct 26 j 10:04	10° H 29'53	1.44766 AU	morning set	938 Sep 20 j 17:58	23° H 35'16	
evening rise	937 Nov 07 j 17:49	29° H 43'35			938 Sep 24 j 09:52	0° S	
	937 Nov 07 j 22:04	0° S		superior conj	938 Oct 02 j 14:22	13° S 57'57	0°47'15
greatest brilliancy	937 Nov 21 j 10:11	20° S 35'34	-0.7m	minimum elong	938 Oct 02 j 18:42	14° S 16'00	0°46'40
	937 Nov 28 j 00:15	0° S		max. Earth dist.	938 Oct 09 j 02:00	24° S 34'58	1.43756 AU
evening max el	937 Dec 03 j 13:38	6° S 43'38	19°55'23	desc. node	938 Oct 09 j 19:22	25° S 44'38	
asc. node	937 Dec 10 j 21:23	11° S 08'58			938 Oct 12 j 11:31	0° H	
retrograde	937 Dec 11 j 03:26	11° S 09'19		evening rise	938 Oct 18 j 01:21	8° H 43'07	
					938 Nov 01 j 04:36	0° S	

evening max el	938 Nov 16 j 13:51	20° ♊ 12'50	21°00'49	evening set	939 Nov 13 j 09:11	7° ♊ 34'25	
retrograde	938 Nov 25 j 01:04	25° ♊ 14'08		asc. node	939 Nov 14 j 15:26	6° ♊ 24'36	
asc. node	938 Nov 27 j 18:24	24° ♊ 32'30		inferior conj	939 Nov 18 j 17:34	1° ♊ 15'16	1°22'12
evening set	938 Nov 29 j 01:32	23° ♊ 42'26		minimum elong	939 Nov 18 j 15:47	1° ♊ 21'26	1°21'29
inferior conj	938 Dec 04 j 10:31	17° ♊ 30'22	2°08'22	min. Earth dist.	939 Nov 18 j 16:41	1° ♊ 18'20	0.67726 AU
minimum elong	938 Dec 04 j 08:03	17° ♊ 38'51	2°07'31		939 Nov 19 j 15:24	30° ♋	
min. Earth dist.	938 Dec 04 j 20:45	16° ♊ 55'15	0.67438 AU	morning rise	939 Nov 23 j 22:14	25° ♋ 03'46	
morning rise	938 Dec 09 j 14:23	11° ♊ 17'01		direct	939 Nov 28 j 14:55	23° ♋ 06'36	
direct	938 Dec 14 j 22:04	8° ♊ 57'28		morning max el	939 Dec 08 j 03:14	28° ♋ 43'58	22°23'08
morning max el	938 Dec 25 j 16:21	15° ♊ 22'34	23°50'48		939 Dec 09 j 08:24	0° ♋	
desc. node	939 Jan 05 j 18:34	28° ♊ 46'34		desc. node	939 Dec 23 j 15:36	18° ♊ 31'36	
	939 Jan 06 j 16:10	0° ♋			939 Dec 31 j 10:02	0° ♋	
	939 Jan 26 j 11:12	0° ♋		morning set	940 Jan 10 j 16:04	16° ♋ 06'28	
morning set	939 Jan 30 j 04:58	6° ♋ 17'39		max. Earth dist.	940 Jan 15 j 22:18	24° ♋ 49'49	1.40687 AU
max. Earth dist.	939 Feb 03 j 01:39	13° ♋ 01'19	1.38550 AU		940 Jan 18 j 22:50	0° ♋	
superior conj	939 Feb 10 j 09:20	26° ♋ 26'22	-1°47'59	superior conj	940 Jan 23 j 17:41	8° ♋ 26'04	-2°01'07
minimum elong	939 Feb 10 j 13:13	26° ♋ 44'43	1°47'39	minimum elong	940 Jan 23 j 19:44	8° ♋ 35'17	2°01'03
	939 Feb 12 j 06:13	0° ♋		evening rise	940 Feb 02 j 20:49	27° ♋ 09'42	
evening rise	939 Feb 19 j 09:56	13° ♋ 56'06			940 Feb 04 j 09:07	0° ♋	
asc. node	939 Feb 23 j 17:45	22° ♋ 15'35		asc. node	940 Feb 10 j 14:47	11° ♋ 17'53	
	939 Feb 28 j 01:54	0° ♋		evening max el	940 Feb 19 j 02:43	23° ♋ 09'10	18°19'18
evening max el	939 Mar 07 j 20:29	10° ♋ 28'20	18°50'51	retrograde	940 Feb 26 j 07:23	26° ♋ 43'33	
retrograde	939 Mar 16 j 02:28	14° ♋ 28'17		evening set	940 Feb 28 j 19:33	26° ♋ 18'35	
evening set	939 Mar 18 j 08:57	14° ♋ 11'19		inferior conj	940 Mar 06 j 23:08	21° ♋ 39'14	3°13'58
inferior conj	939 Mar 26 j 06:35	9° ♋ 52'43	2°14'42	minimum elong	940 Mar 07 j 02:31	21° ♋ 32'03	3°13'22
minimum elong	939 Mar 26 j 10:44	9° ♋ 45'10	2°13'32	min. Earth dist.	940 Mar 10 j 09:24	18° ♋ 46'19	0.59272 AU
min. Earth dist.	939 Mar 29 j 12:48	7° ♋ 31'57	0.57264 AU	morning rise	940 Mar 14 j 07:05	16° ♋ 04'07	
morning rise	939 Apr 03 j 09:25	4° ♋ 44'01		direct	940 Mar 20 j 15:07	14° ♋ 16'19	
desc. node	939 Apr 03 j 17:46	4° ♋ 35'21		desc. node	940 Mar 20 j 14:47	14° ♋ 16'19	
direct	939 Apr 08 j 19:16	3° ♋ 33'06		morning max el	940 Apr 03 j 23:00	22° ♋ 00'21	27°10'50
morning max el	939 Apr 23 j 03:01	11° ♋ 01'50	26°02'21		940 Apr 10 j 23:40	0° ♋	
	939 May 07 j 16:44	0° ♋			940 Apr 29 j 14:13	0° ♋	
morning set	939 May 21 j 06:42	25° ♋ 24'10		morning set	940 May 04 j 15:56	10° ♋ 11'55	
asc. node	939 May 22 j 17:00	28° ♋ 26'19		asc. node	940 May 08 j 14:04	18° ♋ 33'52	
	939 May 23 j 10:27	0° ♋		superior conj	940 May 11 j 18:19	25° ♋ 31'04	0°33'05
superior conj	939 May 28 j 06:32	10° ♋ 33'35	0°55'50	minimum elong	940 May 11 j 16:54	25° ♋ 23'17	0°32'47
minimum elong	939 May 28 j 04:23	10° ♋ 21'52	0°55'25	max. Earth dist.	940 May 11 j 09:41	24° ♋ 43'38	1.32264 AU
max. Earth dist.	939 May 28 j 21:03	11° ♋ 53'15	1.32462 AU		940 May 13 j 19:16	0° ♋	
evening rise	939 Jun 04 j 06:40	25° ♋ 38'00		evening rise	940 May 18 j 15:35	10° ♋ 27'42	
	939 Jun 06 j 09:48	0° ♋			940 May 28 j 16:54	0° ♋	
	939 Jun 23 j 18:30	0° ♋		evening max el	940 Jun 16 j 08:21	25° ♋ 37'54	26°10'24
desc. node	939 Jun 30 j 17:05	9° ♋ 00'20		desc. node	940 Jun 16 j 14:05	25° ♋ 51'28	
evening max el	939 Jul 05 j 08:48	13° ♋ 55'46	27°04'18		940 Jun 21 j 19:33	0° ♋	
retrograde	939 Jul 19 j 06:40	21° ♋ 11'12		retrograde	940 Jun 30 j 08:36	2° ♋ 49'34	
evening set	939 Jul 26 j 07:25	18° ♋ 57'52		evening set	940 Jul 06 j 17:13	1° ♋ 10'38	
min. Earth dist.	939 Jul 29 j 23:03	16° ♋ 15'17	0.61268 AU		940 Jul 08 j 18:34	30° ♋	
inferior conj	939 Aug 02 j 03:01	13° ♋ 29'27	-4°24'04	min. Earth dist.	940 Jul 10 j 21:08	28° ♋ 33'26	0.59214 AU
minimum elong	939 Aug 02 j 07:29	13° ♋ 19'39	4°23'18	inferior conj	940 Jul 14 j 04:47	26° ♋ 02'25	-4°49'01
morning rise	939 Aug 09 j 09:13	8° ♋ 36'56		minimum elong	940 Jul 14 j 06:33	25° ♋ 59'03	4°48'56
direct	939 Aug 11 j 19:56	8° ♋ 12'26		morning rise	940 Jul 21 j 22:01	21° ♋ 32'34	
asc. node	939 Aug 18 j 16:12	11° ♋ 30'46		direct	940 Jul 24 j 09:46	21° ♋ 11'18	
morning max el	939 Aug 18 j 21:29	11° ♋ 43'26	17°59'42	morning max el	940 Aug 01 j 06:15	24° ♋ 57'15	18°26'48
	939 Aug 31 j 01:56	0° ♋		asc. node	940 Aug 04 j 13:16	28° ♋ 40'41	
morning set	939 Sep 03 j 18:44	6° ♋ 46'05		morning set	940 Aug 05 j 12:50	0° ♋	
					940 Aug 17 j 08:36	20° ♋ 35'06	
superior conj	939 Sep 14 j 00:15	25° ♋ 16'57	1°18'36		940 Aug 22 j 06:26	0° ♋	
minimum elong	939 Sep 14 j 04:47	25° ♋ 36'51	1°18'07	superior conj	940 Aug 26 j 09:33	7° ♋ 45'33	1°37'33
	939 Sep 16 j 17:24	0° ♋		minimum elong	940 Aug 26 j 12:25	7° ♋ 58'46	1°37'22
max. Earth dist.	939 Sep 21 j 13:22	8° ♋ 09'37	1.42187 AU	max. Earth dist.	940 Sep 02 j 19:49	21° ♋ 03'51	1.40258 AU
desc. node	939 Sep 26 j 16:23	16° ♋ 30'24		evening rise	940 Sep 07 j 05:10	28° ♋ 30'38	
evening rise	939 Sep 27 j 16:44	18° ♋ 07'26			940 Sep 08 j 02:45	0° ♋	
	939 Oct 05 j 08:32	0° ♋		desc. node	940 Sep 12 j 13:24	7° ♋ 11'14	
	939 Oct 26 j 23:13	0° ♋			940 Sep 27 j 21:49	0° ♋	
evening max el	939 Oct 30 j 08:34	3° ♋ 43'22	22°16'07	evening max el	940 Oct 11 j 22:53	17° ♋ 16'11	23°36'01
retrograde	939 Nov 08 j 21:01	9° ♋ 22'57					

retrograde	940 Oct 22 j 13:57	23° \mathbb{M} 32'34			941 Sep 23 j 13:55	0° \mathbb{M}	
evening set	940 Oct 27 j 15:31	21° \mathbb{M} 26'20		evening max el	941 Sep 24 j 10:53	0° \mathbb{M} 52'39	24°54'03
asc. node	940 Oct 31 j 12:30	17° \mathbb{M} 06'18		retrograde	941 Oct 06 j 02:58	7° \mathbb{M} 39'42	
min. Earth dist.	940 Nov 01 j 13:15	15° \mathbb{M} 42'51	0.67683 AU	evening set	941 Oct 11 j 18:54	5° \mathbb{M} 16'37	
inferior conj	940 Nov 02 j 00:42	15° \mathbb{M} 03'48	0°31'04		941 Oct 16 j 10:24	30° \mathbb{R} $\underline{\mathbb{A}}$	
minimum elong	940 Nov 01 j 23:58	15° \mathbb{M} 06'18	0°30'45	min. Earth dist.	941 Oct 16 j 08:10	0° \mathbb{M} 07'19	0.67314 AU
morning rise	940 Nov 07 j 08:21	8° \mathbb{M} 56'23		inferior conj	941 Oct 17 j 06:12	28° $\underline{\mathbb{A}}$ 54'37	-0°23'36
direct	940 Nov 11 j 10:53	7° \mathbb{M} 21'50		minimum elong	941 Oct 17 j 06:47	28° $\underline{\mathbb{A}}$ 52'40	0°23'21
morning max el	940 Nov 19 j 20:09	12° \mathbb{M} 14'31	21°01'48	asc. node	941 Oct 18 j 09:32	27° $\underline{\mathbb{A}}$ 25'23	
	940 Dec 03 j 15:17	0° \mathbb{X}		morning rise	941 Oct 22 j 18:48	22° $\underline{\mathbb{A}}$ 53'41	
desc. node	940 Dec 09 j 12:38	8° \mathbb{X} 39'03		direct	941 Oct 26 j 08:50	21° $\underline{\mathbb{A}}$ 39'38	
morning set	940 Dec 19 j 23:43	24° \mathbb{X} 39'06		morning max el	941 Nov 02 j 20:50	25° $\underline{\mathbb{A}}$ 56'27	19°52'09
	940 Dec 23 j 09:04	0° \mathbb{Z}			941 Nov 06 j 10:41	0° \mathbb{M}	
max. Earth dist.	940 Dec 28 j 01:54	7° \mathbb{Z} 34'22	1.42623 AU	desc. node	941 Nov 26 j 09:41	29° \mathbb{M} 03'02	
					941 Nov 27 j 00:30	0° \mathbb{X}	
superior conj	941 Jan 04 j 03:12	19° \mathbb{Z} 19'06	-2°02'00	morning set	941 Nov 28 j 19:56	2° \mathbb{X} 47'32	
minimum elong	941 Jan 04 j 01:06	19° \mathbb{Z} 10'09	2°01'57	max. Earth dist.	941 Dec 10 j 12:49	21° \mathbb{X} 07'34	1.44099 AU
	941 Jan 10 j 07:15	0° \approx					
evening rise	941 Jan 15 j 17:32	9° \approx 40'00		superior conj	941 Dec 15 j 10:10	28° \mathbb{X} 58'59	-1°45'56
asc. node	941 Jan 27 j 11:50	29° \approx 47'03		minimum elong	941 Dec 15 j 03:03	28° \mathbb{X} 30'05	1°45'25
	941 Jan 27 j 15:20	0° \mathbb{X}			941 Dec 16 j 01:12	0° \mathbb{Z}	
evening max el	941 Feb 01 j 13:32	6° \mathbb{X} 11'09	18°07'35	evening rise	941 Dec 28 j 19:48	21° \mathbb{Z} 19'14	
retrograde	941 Feb 08 j 04:38	9° \mathbb{X} 35'51			942 Jan 02 j 21:56	0° \approx	
evening set	941 Feb 10 j 21:41	9° \mathbb{X} 01'36		asc. node	942 Jan 14 j 08:52	17° \approx 33'11	
inferior conj	941 Feb 17 j 10:45	4° \mathbb{X} 01'05	3°42'06	evening max el	942 Jan 16 j 02:02	19° \approx 26'58	18°15'04
minimum elong	941 Feb 17 j 12:04	3° \mathbb{X} 57'51	3°42'00	retrograde	942 Jan 22 j 13:27	22° \approx 55'20	
min. Earth dist.	941 Feb 20 j 13:02	1° \mathbb{X} 00'40	0.61392 AU	evening set	942 Jan 25 j 11:16	22° \approx 10'51	
	941 Feb 21 j 15:56	30° \mathbb{R} \approx		inferior conj	942 Jan 31 j 13:30	16° \approx 50'36	3°46'21
morning rise	941 Feb 24 j 00:57	28° \approx 08'37		minimum elong	942 Jan 31 j 12:51	16° \approx 52'22	3°46'20
direct	941 Mar 02 j 21:32	25° \approx 46'48		min. Earth dist.	942 Feb 03 j 01:59	14° \approx 04'44	0.63355 AU
desc. node	941 Mar 07 j 11:50	26° \approx 44'31		morning rise	942 Feb 06 j 13:35	10° \approx 47'50	
	941 Mar 12 j 22:28	0° \mathbb{X}		direct	942 Feb 13 j 12:41	8° \approx 03'20	
morning max el	941 Mar 17 j 01:25	3° \mathbb{X} 38'59	27°45'17	desc. node	942 Feb 22 j 08:53	11° \approx 35'46	
	941 Apr 05 j 13:20	0° \mathbb{Y}		morning max el	942 Feb 27 j 08:49	15° \approx 57'17	27°42'28
morning set	941 Apr 18 j 21:05	24° \mathbb{Y} 44'56			942 Mar 10 j 22:28	0° \mathbb{X}	
	941 Apr 21 j 09:37	0° \mathbb{Z}			942 Mar 29 j 05:24	0° \mathbb{Y}	
max. Earth dist.	941 Apr 24 j 20:52	7° \mathbb{Z} 26'28	1.32436 AU	morning set	942 Apr 02 j 19:51	8° \mathbb{Y} 55'31	
asc. node	941 Apr 25 j 11:08	8° \mathbb{Z} 44'05		max. Earth dist.	942 Apr 08 j 02:30	19° \mathbb{Y} 47'58	1.33002 AU
superior conj	941 Apr 26 j 05:04	10° \mathbb{Z} 21'49	0°07'55	superior conj	942 Apr 10 j 12:59	24° \mathbb{Y} 59'59	-0°18'55
minimum elong	941 Apr 26 j 04:41	10° \mathbb{Z} 19'49	0°07'50	minimum elong	942 Apr 10 j 13:54	25° \mathbb{Y} 04'55	0°18'43
behind sun begin	941 Apr 26 j 00:14	9° \mathbb{Z} 55'29		asc. node	942 Apr 12 j 08:11	28° \mathbb{Y} 52'57	
behind sun end	941 Apr 26 j 09:09	10° \mathbb{Z} 44'09			942 Apr 12 j 20:35	0° \mathbb{Z}	
evening rise	941 May 03 j 02:52	25° \mathbb{Z} 21'16		evening rise	942 Apr 17 j 14:41	10° \mathbb{Z} 12'12	
	941 May 05 j 08:15	0° \mathbb{H}			942 Apr 27 j 20:44	0° \mathbb{H}	
	941 May 23 j 03:37	0° \mathbb{G}		evening max el	942 May 10 j 15:08	17° \mathbb{H} 08'54	23°15'31
evening max el	941 May 29 j 01:03	6° \mathbb{G} 35'46	24°49'53	desc. node	942 May 21 j 08:08	23° \mathbb{H} 35'49	
desc. node	941 May 03 j 11:07	10° \mathbb{G} 55'23		retrograde	942 May 24 j 03:38	23° \mathbb{H} 53'50	
retrograde	941 Jun 12 j 00:10	13° \mathbb{G} 40'48		evening set	942 May 27 j 19:26	23° \mathbb{H} 24'26	
evening set	941 Jun 17 j 03:39	12° \mathbb{G} 40'35		min. Earth dist.	942 Jun 04 j 00:57	20° \mathbb{H} 07'53	0.55737 AU
min. Earth dist.	941 Jun 22 j 12:24	9° \mathbb{G} 50'49	0.57255 AU	inferior conj	942 Jun 05 j 21:33	19° \mathbb{H} 02'19	-3°56'57
inferior conj	941 Jun 25 j 11:04	7° \mathbb{G} 54'33	-4°44'20	minimum elong	942 Jun 05 j 14:24	19° \mathbb{H} 12'52	3°55'22
minimum elong	941 Jun 25 j 08:04	7° \mathbb{G} 59'32	4°44'05	morning rise	942 Jun 14 j 12:02	15° \mathbb{H} 07'57	
morning rise	941 Jul 03 j 15:13	3° \mathbb{G} 46'26		direct	942 Jun 17 j 06:02	14° \mathbb{H} 49'39	
direct	941 Jul 06 j 05:33	3° \mathbb{G} 27'15		morning max el	942 Jun 27 j 21:07	19° \mathbb{H} 44'43	20°24'00
morning max el	941 Jul 15 j 06:56	7° \mathbb{G} 40'41	19°14'55		942 Jul 06 j 00:53	0° \mathbb{G}	
asc. node	941 Jul 22 j 10:21	16° \mathbb{G} 44'21		asc. node	942 Jul 09 j 07:24	5° \mathbb{G} 28'49	
	941 Jul 29 j 20:22	0° \mathbb{Q}		morning set	942 Jul 16 j 13:00	19° \mathbb{G} 27'52	
morning set	941 Aug 01 j 07:42	4° \mathbb{Q} 51'57			942 Jul 21 j 15:50	0° \mathbb{Q}	
superior conj	941 Aug 09 j 12:38	21° \mathbb{Q} 08'05	1°45'45	superior conj	942 Jul 24 j 04:21	5° \mathbb{Q} 08'57	1°45'16
minimum elong	941 Aug 09 j 13:27	21° \mathbb{Q} 12'06	1°45'44	minimum elong	942 Jul 24 j 03:31	5° \mathbb{Q} 04'42	1°45'14
	941 Aug 14 j 04:29	0° \mathbb{P}		max. Earth dist.	942 Jul 29 j 05:12	15° \mathbb{Q} 07'31	1.36325 AU
max. Earth dist.	941 Aug 15 j 23:19	3° \mathbb{P} 17'16	1.38219 AU	evening rise	942 Aug 02 j 04:46	22° \mathbb{Q} 38'16	
evening rise	941 Aug 19 j 18:10	10° \mathbb{P} 03'20			942 Aug 06 j 07:07	0° \mathbb{P}	
desc. node	941 Aug 30 j 10:27	27° \mathbb{P} 43'15		desc. node	942 Aug 17 j 07:29	18° \mathbb{P} 00'37	
	941 Aug 31 j 21:44	0° $\underline{\mathbb{A}}$			942 Aug 25 j 15:42	0° $\underline{\mathbb{A}}$	

evening max el	942 Sep 06 j 22:33	14° Ω 30'43	26°03'00	desc. node	943 Aug 04 j 04:30	7° \mathbb{M} 56'35	
retrograde	942 Sep 19 j 11:21	21° Ω 38'11		evening max el	943 Aug 20 j 10:43	28° \mathbb{M} 04'39	26°54'58
evening set	942 Sep 25 j 17:26	19° Ω 01'32			943 Aug 22 j 13:22	0° Ω	
min. Earth dist.	942 Sep 29 j 23:02	14° Ω 28'07	0.66610 AU	retrograde	943 Sep 02 j 14:21	5° Ω 21'27	
inferior conj	942 Oct 01 j 08:14	12° Ω 44'20	-1°20'24	evening set	943 Sep 09 j 08:55	2° Ω 37'24	
minimum elong	942 Oct 01 j 10:19	12° Ω 37'50	1°19'32		943 Sep 12 j 02:55	30° \mathbb{R} \mathbb{M}	
asc. node	942 Oct 05 j 06:35	8° Ω 18'22		min. Earth dist.	943 Sep 13 j 07:29	28° \mathbb{M} 40'44	0.65560 AU
morning rise	942 Oct 07 j 03:33	6° Ω 52'36		inferior conj	943 Sep 15 j 04:47	26° \mathbb{M} 29'22	-2°17'30
direct	942 Oct 10 j 07:14	5° Ω 55'35		minimum elong	943 Sep 15 j 08:21	26° \mathbb{M} 19'01	2°16'09
morning max el	942 Oct 17 j 04:41	9° Ω 46'40	18°57'09	morning rise	943 Sep 21 j 08:25	20° \mathbb{M} 49'53	
	942 Oct 31 j 18:10	0° \mathbb{M}		asc. node	943 Sep 22 j 03:38	20° \mathbb{M} 28'39	
morning set	942 Nov 08 j 05:39	11° \mathbb{M} 42'51		direct	943 Sep 24 j 04:07	20° \mathbb{M} 06'07	
desc. node	942 Nov 13 j 06:44	19° \mathbb{M} 38'14		morning max el	943 Sep 30 j 17:44	23° \mathbb{M} 40'37	18°18'22
	942 Nov 19 j 21:16	0° \mathbb{A}			943 Oct 05 j 20:30	0° Ω	
max. Earth dist.	942 Nov 23 j 04:55	5° \mathbb{A} 12'55	1.44937 AU	morning set	943 Oct 19 j 19:14	22° Ω 02'55	
					943 Oct 24 j 16:47	0° \mathbb{M}	
superior conj	942 Nov 24 j 18:11	7° \mathbb{A} 39'40	-1°11'19	desc. node	943 Oct 31 j 03:46	10° \mathbb{M} 20'47	
minimum elong	942 Nov 24 j 10:00	7° \mathbb{A} 07'24	1°10'23				
	942 Dec 08 j 17:52	0° \mathbb{B}		superior conj	943 Nov 03 j 19:28	16° \mathbb{M} 08'03	-0°24'05
evening rise	942 Dec 09 j 23:40	2° \mathbb{B} 00'50		minimum elong	943 Nov 03 j 16:19	15° \mathbb{M} 55'40	0°23'39
	942 Dec 28 j 01:51	0° \approx		max. Earth dist.	943 Nov 05 j 23:40	19° \mathbb{M} 33'44	1.45046 AU
evening max el	942 Dec 30 j 13:37	2° \approx 50'55	18°40'58		943 Nov 12 j 15:28	0° \mathbb{A}	
asc. node	943 Jan 01 j 05:53	4° \approx 24'01		evening rise	943 Nov 20 j 04:09	11° \mathbb{A} 46'18	
retrograde	943 Jan 06 j 05:40	6° \approx 34'03		greatest brilliancy	943 Dec 01 j 10:43	29° \mathbb{A} 18'38	-0.7m
evening set	943 Jan 09 j 08:59	5° \approx 38'17			943 Dec 01 j 21:33	0° \mathbb{B}	
inferior conj	943 Jan 15 j 03:27	0° \approx 00'13	3°33'15	evening max el	943 Dec 13 j 22:01	16° \mathbb{B} 18'51	19°23'51
minimum elong	943 Jan 15 j 01:28	0° \approx 06'12	3°32'59	asc. node	943 Dec 19 j 02:53	20° \mathbb{B} 05'09	
	943 Jan 15 j 03:31	30° \mathbb{R} \mathbb{B}		retrograde	943 Dec 21 j 01:54	20° \mathbb{B} 26'19	
min. Earth dist.	943 Jan 17 j 00:30	27° \mathbb{B} 44'18	0.64998 AU	evening set	943 Dec 24 j 12:05	19° \mathbb{B} 17'47	
morning rise	943 Jan 20 j 17:31	23° \mathbb{B} 51'38		inferior conj	943 Dec 30 j 01:19	13° \mathbb{B} 24'11	3°07'27
direct	943 Jan 27 j 11:09	20° \mathbb{B} 59'17		minimum elong	943 Dec 29 j 22:41	13° \mathbb{B} 32'40	3°06'51
desc. node	943 Feb 09 j 05:55	28° \mathbb{B} 14'17		min. Earth dist.	943 Dec 31 j 07:36	11° \mathbb{B} 46'16	0.66258 AU
morning max el	943 Feb 09 j 18:22	28° \mathbb{B} 45'07	27°05'37	morning rise	944 Jan 04 j 09:03	7° \mathbb{B} 12'25	
	943 Feb 10 j 23:27	0° \approx		direct	944 Jan 10 j 15:35	4° \mathbb{B} 25'52	
	943 Mar 04 j 17:49	0° \mathbb{H}		morning max el	944 Jan 23 j 03:37	11° \mathbb{B} 50'08	26°01'59
morning set	943 Mar 17 j 09:12	22° \mathbb{H} 34'04		desc. node	944 Jan 27 j 02:57	16° \mathbb{B} 09'23	
	943 Mar 21 j 03:29	0° \mathbb{Y}			944 Feb 06 j 17:28	0° \approx	
max. Earth dist.	943 Mar 21 j 22:39	1° \mathbb{Y} 37'00	1.34004 AU		944 Feb 25 j 09:06	0° \mathbb{H}	
				morning set	944 Feb 28 j 08:58	5° \mathbb{H} 27'20	
superior conj	943 Mar 25 j 16:06	9° \mathbb{Y} 19'23	-0°46'18	max. Earth dist.	944 Mar 03 j 07:03	12° \mathbb{H} 52'45	1.35473 AU
minimum elong	943 Mar 25 j 18:22	9° \mathbb{Y} 31'20	0°45'51				
asc. node	943 Mar 30 j 05:13	18° \mathbb{Y} 56'24		superior conj	944 Mar 08 j 11:53	23° \mathbb{H} 11'42	-1°12'53
evening rise	943 Apr 02 j 01:09	24° \mathbb{Y} 54'20		minimum elong	944 Mar 08 j 15:22	23° \mathbb{H} 29'20	1°12'20
	943 Apr 04 j 12:31	0° \mathbb{B}			944 Mar 11 j 19:38	0° \mathbb{Y}	
evening max el	943 Apr 22 j 10:03	27° \mathbb{B} 48'44	21°42'14	evening rise	944 Mar 16 j 08:18	9° \mathbb{Y} 20'28	
	943 Apr 24 j 22:06	0° \mathbb{I}		asc. node	944 Mar 16 j 02:14	8° \mathbb{Y} 49'25	
retrograde	943 May 04 j 19:47	3° \mathbb{I} 52'50			944 Mar 27 j 12:30	0° \mathbb{B}	
evening set	943 May 07 j 08:10	3° \mathbb{I} 38'36		evening max el	944 Apr 03 j 15:02	8° \mathbb{B} 57'41	20°21'06
desc. node	943 May 08 j 05:09	3° \mathbb{I} 27'18		retrograde	944 Apr 14 j 09:03	14° \mathbb{B} 08'58	
	943 May 16 j 01:12	30° \mathbb{R} \mathbb{B}		evening set	944 Apr 16 j 11:06	13° \mathbb{B} 58'06	
inferior conj	943 May 16 j 18:09	29° \mathbb{B} 36'17	-2°24'01	desc. node	944 Apr 24 j 02:10	10° \mathbb{B} 51'12	
minimum elong	943 May 16 j 11:45	29° \mathbb{B} 45'15	2°21'56	inferior conj	944 Apr 25 j 13:22	10° \mathbb{B} 00'11	-0°25'27
min. Earth dist.	943 May 16 j 13:30	29° \mathbb{B} 42'49	0.54989 AU	minimum elong	944 Apr 25 j 12:11	10° \mathbb{B} 01'56	0°25'01
morning rise	943 May 25 j 16:17	25° \mathbb{B} 40'00		min. Earth dist.	944 Apr 27 j 02:40	9° \mathbb{B} 05'38	0.55191 AU
direct	943 May 28 j 18:01	25° \mathbb{B} 19'13		morning rise	944 May 04 j 11:52	5° \mathbb{B} 43'31	
	943 Jun 08 j 18:24	0° \mathbb{I}		direct	944 May 08 j 05:57	5° \mathbb{B} 12'57	
morning max el	943 Jun 10 j 00:03	1° \mathbb{I} 05'40	21°51'42	morning max el	944 May 21 j 17:58	11° \mathbb{B} 48'51	23°31'36
asc. node	943 Jun 26 j 04:28	24° \mathbb{I} 44'24			944 Jun 04 j 09:49	0° \mathbb{I}	
	943 Jun 28 j 20:16	0° \mathbb{E}		asc. node	944 Jun 12 j 01:31	14° \mathbb{I} 22'04	
morning set	943 Jun 30 j 22:19	4° \mathbb{E} 17'07		morning set	944 Jun 14 j 09:44	19° \mathbb{I} 13'07	
					944 Jun 19 j 10:36	0° \mathbb{E}	
superior conj	943 Jul 08 j 04:53	19° \mathbb{E} 37'03	1°37'51				
minimum elong	943 Jul 08 j 02:58	19° \mathbb{E} 26'59	1°37'42	superior conj	944 Jun 21 j 11:16	4° \mathbb{E} 22'19	1°24'55
max. Earth dist.	943 Jul 11 j 19:10	27° \mathbb{E} 02'52	1.34751 AU	minimum elong	944 Jun 21 j 08:52	4° \mathbb{E} 09'22	1°24'36
	943 Jul 13 j 06:17	0° \mathbb{Q}		max. Earth dist.	944 Jun 23 j 18:43	9° \mathbb{E} 18'11	1.33556 AU
evening rise	943 Jul 16 j 08:17	6° \mathbb{Q} 03'24		evening rise	944 Jun 29 j 00:09	20° \mathbb{E} 04'57	
	943 Jul 29 j 23:36	0° \mathbb{M}			944 Jul 04 j 03:35	0° \mathbb{Q}	

desc. node	944 Jul 21 j 01:31	27°♎21'35		desc. node	945 Jul 07 j 22:31	16°♎02'36	
	944 Jul 23 j 00:28	0°♎		evening max el	945 Jul 15 j 07:00	24°♎12'09	27°20'27
evening max el	944 Aug 01 j 22:20	11°♎23'04	27°22'45		945 Jul 23 j 04:57	0°♎	
retrograde	944 Aug 15 j 11:25	18°♎41'28		retrograde	945 Jul 29 j 02:02	1°♎29'05	
evening set	944 Aug 22 j 14:33	15°♎59'15			945 Aug 03 j 15:48	30°♎♎	
min. Earth dist.	944 Aug 26 j 07:13	12°♎37'46	0.64150 AU	evening set	945 Aug 05 j 06:45	29°♎00'56	
inferior conj	944 Aug 28 j 17:26	10°♎04'22	-3°12'22	min. Earth dist.	945 Aug 08 j 20:41	26°♎08'02	0.62398 AU
minimum elong	944 Aug 28 j 22:09	9°♎51'54	3°10'52	inferior conj	945 Aug 11 j 19:15	23°♎22'20	-4°01'06
morning rise	944 Sep 04 j 06:43	4°♎40'39		minimum elong	945 Aug 12 j 00:15	23°♎10'32	3°59'57
direct	944 Sep 06 j 21:00	4°♎06'36		morning rise	945 Aug 18 j 19:09	18°♎17'52	
asc. node	944 Sep 08 j 00:41	4°♎13'25		direct	945 Aug 21 j 06:29	17°♎50'35	
morning max el	944 Sep 13 j 09:27	7°♎32'54	17°56'47	asc. node	945 Aug 25 j 21:46	19°♎29'02	
	944 Sep 28 j 08:07	0°♎		morning max el	945 Aug 28 j 00:56	21°♎17'01	17°53'15
morning set	944 Sep 30 j 12:27	3°♎43'37			945 Sep 03 j 15:30	0°♎	
				morning set	945 Sep 13 j 03:27	16°♎26'36	
superior conj	944 Oct 13 j 11:29	25°♎23'24	0°23'39		945 Sep 20 j 18:55	0°♎	
minimum elong	944 Oct 13 j 14:07	25°♎34'02	0°23'16	superior conj	945 Sep 24 j 05:58	5°♎57'28	1°02'07
	944 Oct 16 j 08:00	0°♎		minimum elong	945 Sep 24 j 10:45	6°♎17'48	1°01'32
desc. node	944 Oct 17 j 00:48	1°♎07'22		max. Earth dist.	945 Oct 01 j 08:47	17°♎48'04	1.43148 AU
max. Earth dist.	944 Oct 18 j 18:06	3°♎52'07	1.44421 AU	desc. node	945 Oct 03 j 21:49	21°♎54'27	
evening rise	944 Oct 29 j 15:23	20°♎53'03		evening rise	945 Oct 09 j 00:09	29°♎57'52	
	944 Nov 04 j 14:25	0°♎			945 Oct 09 j 00:42	0°♎	
evening max el	944 Nov 26 j 01:34	29°♎48'19	20°21'48		945 Oct 29 j 06:36	0°♎	
	944 Nov 26 j 06:08	0°♎		evening max el	945 Nov 08 j 23:18	13°♎17'41	21°31'52
retrograde	944 Dec 03 j 23:40	4°♎28'07		retrograde	945 Nov 17 j 20:51	18°♎35'19	
asc. node	944 Dec 04 j 23:55	4°♎22'21		asc. node	945 Nov 21 j 20:59	17°♎06'18	
evening set	944 Dec 07 j 18:27	3°♎05'10		evening set	945 Nov 22 j 02:08	16°♎56'24	
	944 Dec 10 j 20:52	30°♎♎		inferior conj	945 Nov 27 j 10:39	10°♎40'39	1°49'27
inferior conj	944 Dec 13 j 04:28	26°♎58'49	2°32'09	minimum elong	945 Nov 27 j 08:26	10°♎48'20	1°48'38
minimum elong	944 Dec 13 j 01:47	27°♎07'51	2°31'19	min. Earth dist.	945 Nov 27 j 15:56	10°♎22'22	0.67602 AU
min. Earth dist.	944 Dec 13 j 21:29	26°♎01'13	0.67116 AU	morning rise	945 Dec 02 j 14:35	4°♎27'55	
morning rise	944 Dec 18 j 08:58	20°♎45'41		direct	945 Dec 07 j 15:43	2°♎17'59	
direct	944 Dec 24 j 01:20	18°♎14'46		morning max el	945 Dec 17 j 21:21	8°♎23'00	23°13'12
morning max el	945 Jan 04 j 12:06	25°♎04'12	24°41'10	desc. node	945 Dec 30 j 21:01	24°♎26'57	
	945 Jan 08 j 23:32	0°♎			946 Jan 03 j 18:55	0°♎	
desc. node	945 Jan 12 j 23:59	4°♎59'00		morning set	946 Jan 21 j 17:43	27°♎58'38	
	945 Jan 30 j 05:25	0°♎			946 Jan 22 j 22:35	0°♎	
morning set	945 Feb 09 j 13:54	17°♎21'03		max. Earth dist.	946 Jan 26 j 00:52	5°♎18'08	1.39466 AU
max. Earth dist.	945 Feb 13 j 05:47	23°♎55'45	1.37354 AU				
	945 Feb 16 j 12:08	0°♎		superior conj	946 Feb 02 j 16:08	18°♎59'48	-1°54'46
superior conj	945 Feb 19 j 21:17	6°♎28'53	-1°36'39	minimum elong	946 Feb 02 j 19:30	19°♎15'25	1°54'32
minimum elong	945 Feb 20 j 01:21	6°♎48'40	1°36'11		946 Feb 08 j 12:02	0°♎	
evening rise	945 Feb 28 j 09:53	23°♎24'35		evening rise	946 Feb 12 j 03:05	6°♎58'45	
asc. node	945 Mar 02 j 23:16	28°♎27'33		asc. node	946 Feb 17 j 20:18	17°♎44'51	
	945 Mar 03 j 18:19	0°♎			946 Feb 25 j 14:15	0°♎	
evening max el	945 Mar 17 j 07:24	20°♎45'15	19°17'59	evening max el	946 Feb 28 j 09:21	3°♎08'33	18°34'56
retrograde	945 Mar 26 j 09:05	25°♎07'46		retrograde	946 Mar 08 j 03:20	6°♎56'02	
evening set	945 Mar 28 j 12:35	24°♎54'08		evening set	946 Mar 10 j 12:07	6°♎36'01	
inferior conj	945 Apr 05 j 21:20	20°♎45'12	1°24'42	inferior conj	946 Mar 18 j 01:42	2°♎08'42	2°44'05
minimum elong	945 Apr 06 j 00:34	20°♎39'49	1°23'39	minimum elong	946 Mar 18 j 05:49	2°♎00'42	2°43'06
min. Earth dist.	945 Apr 08 j 17:22	18°♎52'48	0.56303 AU		946 Mar 20 j 20:02	30°♎♎	
desc. node	945 Apr 10 j 23:11	17°♎31'30		min. Earth dist.	946 Mar 21 j 11:24	29°♎31'18	0.58077 AU
morning rise	945 Apr 14 j 09:42	15°♎55'35		morning rise	946 Mar 25 j 20:34	26°♎47'14	
direct	945 Apr 19 j 04:11	15°♎03'23		desc. node	946 Mar 28 j 20:12	25°♎41'50	
morning max el	945 May 03 j 08:29	22°♎16'46	25°11'22	direct	946 Mar 31 j 16:34	25°♎21'08	
	945 May 10 j 03:54	0°♎			946 Apr 11 j 16:57	0°♎	
	945 May 27 j 21:27	0°♎		morning max el	946 Apr 15 j 01:31	2°♎58'06	26°35'19
morning set	945 May 29 j 21:37	4°♎10'32			946 May 04 j 12:30	0°♎	
asc. node	945 May 29 j 22:34	4°♎15'30		morning set	946 May 14 j 08:20	19°♎03'52	
				asc. node	946 May 16 j 19:37	24°♎19'27	
superior conj	945 Jun 05 j 21:14	19°♎17'27	1°07'31		946 May 19 j 10:13	0°♎	
minimum elong	945 Jun 05 j 18:52	19°♎04'31	1°07'07	superior conj	946 May 21 j 08:52	4°♎16'12	0°46'31
max. Earth dist.	945 Jun 07 j 01:58	21°♎53'58	1.32750 AU	minimum elong	946 May 21 j 07:00	4°♎05'53	0°46'09
	945 Jun 10 j 20:33	0°♎		max. Earth dist.	946 May 21 j 13:34	4°♎42'01	1.32324 AU
evening rise	945 Jun 13 j 00:47	4°♎32'05		evening rise	946 May 28 j 07:21	19°♎15'56	
	945 Jun 26 j 20:02	0°♎					

	946 Jun 02 j 15:14	0°☿			947 May 26 j 12:52	0°☿	
	946 Jun 21 j 14:25	0°♌		evening max el	947 Jun 09 j 06:43	17°☿42'56	25°38'56
desc. node	946 Jun 24 j 19:32	3°♌41'25		desc. node	947 Jun 11 j 16:34	19°☿51'27	
evening max el	946 Jun 27 j 10:16	6°♌20'35	26°45'10	retrograde	947 Jun 23 j 07:42	24°☿53'14	
retrograde	946 Jul 11 j 09:30	13°♌35'23		evening set	947 Jun 29 j 05:03	23°☿31'04	
evening set	946 Jul 18 j 05:06	11°♌35'08		min. Earth dist.	947 Jul 03 j 19:00	20°☿50'20	0.58340 AU
min. Earth dist.	946 Jul 21 j 23:59	8°♌57'19	0.60394 AU	inferior conj	947 Jul 07 j 00:39	18°☿31'40	-4°51'33
inferior conj	946 Jul 25 j 06:52	6°♌14'57	-4°37'27	minimum elong	947 Jul 07 j 00:34	18°☿31'48	4°51'33
minimum elong	946 Jul 25 j 10:29	6°♌07'27	4°37'01	morning rise	947 Jul 14 j 22:33	14°☿11'24	
morning rise	946 Aug 01 j 17:49	1°♌32'22		direct	947 Jul 17 j 11:01	13°☿51'16	
direct	946 Aug 04 j 04:39	1°♌09'32		morning max el	947 Jul 25 j 18:55	17°☿47'46	18°44'40
morning max el	946 Aug 11 j 13:11	4°♌45'28	18°08'48	asc. node	947 Jul 30 j 15:53	23°☿36'43	
asc. node	946 Aug 12 j 18:50	6°♌02'14			947 Aug 03 j 16:57	0°♌	
morning set	946 Aug 27 j 10:25	29°♌55'49		morning set	947 Aug 11 j 04:38	13°♌57'41	
	946 Aug 27 j 11:18	0°♍			947 Aug 19 j 11:10	0°♍	
superior conj	946 Sep 06 j 02:39	17°♍49'16	1°28'03	superior conj	947 Aug 19 j 20:10	0°♍42'38	1°42'13
minimum elong	946 Sep 06 j 06:35	18°♍06'57	1°27'42	minimum elong	947 Aug 19 j 22:09	0°♍51'59	1°42'06
	946 Sep 13 j 02:08	0°♎		max. Earth dist.	947 Aug 26 j 21:59	13°♍39'54	1.39388 AU
max. Earth dist.	946 Sep 13 j 17:43	1°♎05'53	1.41393 AU	evening rise	947 Aug 30 j 22:31	20°♍38'18	
evening rise	946 Sep 18 j 23:32	9°♎45'07			947 Sep 05 j 14:27	0°♎	
desc. node	946 Sep 20 j 18:52	12°♎39'07		desc. node	947 Sep 07 j 15:55	3°♎16'57	
	946 Oct 02 j 02:36	0°♏			947 Sep 26 j 05:18	0°♏	
evening max el	946 Oct 22 j 15:50	26°♏48'56	22°49'46	evening max el	947 Oct 05 j 04:58	10°♏23'50	24°09'51
	946 Oct 26 j 05:01	0°♐		retrograde	947 Oct 16 j 07:16	16°♏54'28	
retrograde	946 Nov 01 j 15:50	2°♐45'18		evening set	947 Oct 21 j 14:45	14°♏41'09	
evening set	946 Nov 06 j 09:26	0°♐49'17		min. Earth dist.	947 Oct 26 j 08:51	9°♏11'43	0.67567 AU
	946 Nov 07 j 07:10	30°♑♏		asc. node	947 Oct 26 j 15:05	8°♏50'41	
asc. node	946 Nov 08 j 18:02	28°♏24'55		inferior conj	947 Oct 27 j 00:40	8°♏18'19	0°08'16
inferior conj	946 Nov 11 j 17:59	24°♏27'55	1°01'03	minimum elong	947 Oct 27 j 00:28	8°♏18'59	0°08'10
minimum elong	946 Nov 11 j 16:37	24°♏32'40	1°00'28	transit middle	947 Oct 27 j 00:28	8°♏18'59	0°08'10
min. Earth dist.	946 Nov 11 j 12:34	24°♏46'39	0.67749 AU	transit begin	947 Oct 26 j 22:06	8°♏26'57	
morning rise	946 Nov 16 j 23:40	18°♏17'40		transit end	947 Oct 27 j 02:50	8°♏11'01	
direct	946 Nov 21 j 10:04	16°♏30'24		morning rise	947 Nov 01 j 10:11	2°♏13'02	
morning max el	946 Nov 30 j 10:31	21°♏48'28	21°47'14	direct	947 Nov 05 j 07:10	0°♏47'26	
	946 Dec 07 j 10:06	0°♑		morning max el	947 Nov 13 j 06:35	5°♏23'50	20°30'24
desc. node	946 Dec 17 j 18:05	14°♑22'31			947 Dec 01 j 13:14	0°♑	
	946 Dec 28 j 02:35	0°♒		desc. node	947 Dec 04 j 15:09	4°♑38'06	
morning set	947 Jan 01 j 16:18	7°♒12'02		morning set	947 Dec 11 j 16:13	15°♑25'55	
max. Earth dist.	947 Jan 07 j 23:33	17°♒27'49	1.41551 AU		947 Dec 20 j 21:39	0°♒	
	947 Jan 15 j 08:00	0°♓		max. Earth dist.	947 Dec 21 j 06:06	0°♒34'00	1.43323 AU
superior conj	947 Jan 15 j 15:21	0°♓32'13	-2°03'18	superior conj	947 Dec 27 j 13:54	10°♒55'18	-1°57'29
minimum elong	947 Jan 15 j 15:55	0°♓34'42	2°03'17	minimum elong	947 Dec 27 j 09:33	10°♒37'13	1°57'17
evening rise	947 Jan 26 j 08:25	19°♓54'44			948 Jan 07 j 17:27	0°♓	
	947 Jan 31 j 21:11	0°♈		evening rise	948 Jan 08 j 21:51	2°♓04'33	
asc. node	947 Feb 04 j 17:21	6°♈34'11		asc. node	948 Jan 22 j 14:23	24°♓46'57	
evening max el	947 Feb 11 j 17:55	15°♈59'23	18°11'58	evening max el	948 Jan 26 j 05:55	29°♓09'09	18°08'31
retrograde	947 Feb 18 j 15:35	19°♈27'53			948 Jan 27 j 03:33	0°♈	
evening set	947 Feb 21 j 05:49	18°♈59'13		retrograde	948 Feb 01 j 18:10	2°♈33'31	
inferior conj	947 Feb 28 j 02:48	14°♈11'05	3°29'18	evening set	948 Feb 04 j 13:19	1°♈54'57	
minimum elong	947 Feb 28 j 05:21	14°♈05'18	3°28'57		948 Feb 07 j 11:55	30°♈♓	
min. Earth dist.	947 Mar 03 j 10:56	11°♈11'33	0.60175 AU	inferior conj	948 Feb 10 j 21:22	26°♓46'03	3°46'21
morning rise	947 Mar 07 j 02:48	8°♈27'22		minimum elong	948 Feb 10 j 21:47	26°♓44'57	3°46'20
direct	947 Mar 13 j 17:31	6°♈23'45		min. Earth dist.	948 Feb 13 j 18:18	23°♓49'25	0.62262 AU
desc. node	947 Mar 15 j 17:15	6°♈34'29		morning rise	948 Feb 17 j 05:06	20°♓48'47	
morning max el	947 Mar 28 j 00:15	14°♈12'58	27°30'02	direct	948 Feb 24 j 04:07	18°♓15'25	
	947 Apr 09 j 16:35	0°♉		desc. node	948 Mar 01 j 14:17	20°♓08'20	
	947 Apr 26 j 19:52	0°♊		morning max el	948 Mar 09 j 04:51	26°♓08'59	27°48'30
morning set	947 Apr 28 j 16:03	3°♊46'11			948 Mar 12 j 19:08	0°♊	
asc. node	947 May 03 j 16:39	14°♊28'40			948 Apr 02 j 04:58	0°♉	
max. Earth dist.	947 May 05 j 01:51	17°♊29'57	1.32280 AU	morning set	948 Apr 11 j 18:47	18°♉10'47	
					948 Apr 17 j 10:06	0°♊	
superior conj	947 May 05 j 20:25	19°♊11'41	0°22'40	max. Earth dist.	948 Apr 17 j 11:03	0°♊05'06	1.32625 AU
minimum elong	947 May 05 j 19:24	19°♊06'10	0°22'27				
	947 May 10 j 19:04	0°♋		superior conj	948 Apr 19 j 06:11	3°♊58'17	-0°03'20
evening rise	947 May 12 j 17:28	4°♋08'01		minimum elong	948 Apr 19 j 06:20	3°♊59'08	0°03'17

behind sun begin	948 Apr 19 j 01:16	3° 8 31'39		max. Earth dist.	949 Mar 31 j 13:12	12° Y 14'12	1.33381 AU
behind sun end	948 Apr 19 j 11:24	4° 8 26'39					
asc. node	948 Apr 19 j 13:42	4° 8 39'08		superior conj	949 Apr 03 j 12:17	18° Y 28'56	-0°30'31
evening rise	948 Apr 26 j 05:12	19° 8 01'40		minimum elong	949 Apr 03 j 13:47	18° Y 36'55	0°30'13
	948 May 01 j 14:32	0° II		asc. node	949 Apr 06 j 10:44	24° Y 46'02	
evening max el	948 May 20 j 21:44	28° II 27'47	24°10'39		949 Apr 08 j 21:21	0° 8	
	948 May 22 j 14:11	0° 6		evening rise	949 Apr 10 j 16:40	3° 8 49'35	
desc. node	948 May 28 j 13:33	3° 6 58'58			949 Apr 25 j 02:18	0° II	
retrograde	948 Jun 03 j 17:53	5° 6 25'44		evening max el	949 May 02 j 12:53	8° II 59'12	22°34'49
evening set	948 Jun 08 j 06:11	4° 6 40'30		desc. node	949 May 15 j 10:32	15° II 28'45	
min. Earth dist.	948 Jun 14 j 08:48	1° 6 40'48	0.56537 AU	retrograde	949 May 15 j 15:36	15° II 28'51	
inferior conj	948 Jun 16 j 22:17	0° 6 04'56	-4°30'04	evening set	949 May 18 j 18:14	15° II 07'36	
minimum elong	948 Jun 16 j 17:10	0° 6 12'57	4°29'20	min. Earth dist.	949 May 26 j 20:41	11° II 36'21	0.55314 AU
	948 Jun 17 j 01:25	30° R II		inferior conj	949 May 28 j 01:34	10° II 55'17	-3°22'27
morning rise	948 Jun 25 j 06:52	26° II 03'39		minimum elong	949 May 27 j 17:59	11° II 06'05	3°20'23
direct	948 Jun 27 j 22:41	25° II 44'56		morning rise	949 Jun 05 j 19:53	7° II 02'43	
	948 Jul 07 j 08:49	0° 6		direct	949 Jun 08 j 16:42	6° II 43'50	
morning max el	948 Jul 07 j 15:12	0° 6 14'39	19°41'44	morning max el	949 Jun 20 j 00:23	11° II 59'29	20°59'22
asc. node	948 Jul 16 j 12:56	11° 6 58'55			949 Jul 02 j 21:25	0° 6	
morning set	948 Jul 25 j 06:38	28° 6 23'17		asc. node	949 Jul 03 j 09:59	0° 6 57'31	
	948 Jul 26 j 01:50	0° Q		morning set	949 Jul 09 j 13:53	13° 6 05'36	
superior conj	948 Aug 02 j 05:05	14° Q 22'22	1°46'30	superior conj	949 Jul 17 j 00:56	28° 6 35'51	1°42'53
minimum elong	948 Aug 02 j 05:08	14° Q 22'38	1°46'29	minimum elong	949 Jul 16 j 23:34	28° 6 28'48	1°42'48
max. Earth dist.	948 Aug 08 j 01:55	25° Q 40'55	1.37389 AU		949 Jul 17 j 17:20	0° Q	
	948 Aug 10 j 10:05	0° P		max. Earth dist.	949 Jul 21 j 11:04	7° Q 31'38	1.35609 AU
evening rise	948 Aug 11 j 21:12	2° P 38'33		evening rise	949 Jul 25 j 15:31	15° Q 35'58	
desc. node	948 Aug 24 j 12:57	23° P 43'20			949 Aug 02 j 17:09	0° P	
	948 Aug 28 j 16:46	0° Q		desc. node	949 Aug 11 j 09:56	13° P 52'34	
evening max el	948 Sep 16 j 16:50	24° Q 02'01	25°25'02		949 Aug 23 j 05:36	0° Q	
	948 Sep 24 j 16:26	0° M		evening max el	949 Aug 30 j 04:44	7° Q 39'25	26°27'38
retrograde	948 Sep 28 j 18:14	0° M 58'21		retrograde	949 Sep 12 j 00:13	14° Q 51'36	
	948 Oct 02 j 12:05	30° R Q		evening set	949 Sep 18 j 12:06	12° Q 10'41	
evening set	948 Oct 04 j 16:17	28° Q 29'10		min. Earth dist.	949 Sep 22 j 14:35	7° Q 53'12	0.66207 AU
min. Earth dist.	948 Oct 09 j 02:19	23° Q 34'55	0.67059 AU	inferior conj	949 Sep 24 j 04:52	5° Q 57'07	-1°44'42
inferior conj	948 Oct 10 j 04:55	22° Q 08'57	-0°47'31	minimum elong	949 Sep 24 j 07:36	5° Q 48'51	1°43'36
minimum elong	948 Oct 10 j 06:08	22° Q 05'03	0°47'00	asc. node	949 Sep 29 j 09:10	0° Q 39'23	
asc. node	948 Oct 12 j 12:08	19° Q 17'19		morning rise	949 Sep 30 j 03:33	0° Q 10'27	
morning rise	948 Oct 15 j 20:09	16° Q 11'30			949 Sep 30 j 11:24	30° R P	
direct	948 Oct 19 j 05:37	15° Q 04'57		direct	949 Oct 03 j 03:37	29° P 19'29	
morning max el	948 Oct 26 j 10:24	19° Q 09'15	19°26'51		949 Oct 05 j 21:22	0° Q	
	948 Nov 03 j 23:24	0° M		morning max el	949 Oct 09 j 20:49	3° Q 02'04	18°38'44
greatest brilliancy	948 Nov 09 j 05:44	7° M 47'28	-0.7m		949 Oct 28 j 10:48	0° M	
morning set	948 Nov 19 j 15:26	23° M 46'57		morning set	949 Oct 30 j 12:21	3° M 17'28	
desc. node	948 Nov 20 j 12:12	25° M 07'29		desc. node	949 Nov 07 j 09:14	15° M 46'33	
	948 Nov 23 j 15:26	0° X					
max. Earth dist.	948 Dec 02 j 20:02	14° X 25'03	1.44547 AU	superior conj	949 Nov 15 j 12:32	28° M 34'54	-0°52'11
superior conj	948 Dec 06 j 10:01	20° X 06'51	-1°33'24	minimum elong	949 Nov 15 j 05:56	28° M 09'00	0°51'21
minimum elong	948 Dec 06 j 01:39	19° X 33'25	1°32'37	max. Earth dist.	949 Nov 15 j 14:12	28° M 41'28	1.45074 AU
	948 Dec 12 j 13:07	0° Z			949 Nov 16 j 10:11	0° X	
evening rise	948 Dec 20 j 14:59	13° Z 20'05		evening rise	949 Dec 01 j 08:51	23° X 37'52	
	948 Dec 30 j 16:32	0° Z			949 Dec 05 j 08:34	0° Z	
asc. node	949 Jan 08 j 11:25	12° Z 11'29		greatest brilliancy	949 Dec 09 j 10:54	6° Z 31'25	-0.8m
evening max el	949 Jan 08 j 18:21	12° Z 29'23	18°23'51	evening max el	949 Dec 23 j 04:48	25° Z 55'26	18°57'05
retrograde	949 Jan 15 j 06:37	16° Z 02'29		asc. node	949 Dec 26 j 08:26	28° Z 34'49	
evening set	949 Jan 18 j 06:45	15° Z 13'10		retrograde	949 Dec 30 j 01:03	29° Z 48'01	
inferior conj	949 Jan 24 j 05:18	9° Z 44'53	3°42'33	evening set	950 Jan 02 j 07:05	28° Z 46'56	
minimum elong	949 Jan 24 j 04:00	9° Z 48'37	3°42'28	inferior conj	950 Jan 07 j 23:02	23° Z 01'38	3°23'39
min. Earth dist.	949 Jan 26 j 11:09	7° Z 10'42	0.64105 AU	minimum elong	950 Jan 07 j 20:42	23° Z 08'55	3°23'14
morning rise	949 Jan 30 j 00:41	3° Z 39'29		min. Earth dist.	950 Jan 09 j 13:32	21° Z 01'31	0.65585 AU
direct	949 Feb 05 j 22:19	0° Z 50'07		morning rise	950 Jan 13 j 09:59	16° Z 51'17	
desc. node	949 Feb 16 j 11:19	5° Z 49'31		direct	950 Jan 19 j 23:15	14° Z 00'16	
morning max el	949 Feb 19 j 13:25	8° Z 40'59	27°30'35	morning max el	950 Feb 01 j 23:20	21° Z 38'36	26°41'17
	949 Mar 08 j 03:24	0° X		desc. node	950 Feb 03 j 08:23	23° Z 04'04	
	949 Mar 25 j 11:39	0° Y			950 Feb 09 j 06:49	0° Z	
morning set	949 Mar 26 j 13:54	2° Y 08'34		morning set	950 Mar 01 j 07:58	0° X	
					950 Mar 09 j 22:03	15° X 29'28	

max. Earth dist.	950 Mar 14 j 04:45	23° H 49'26	1.34581 AU		951 Feb 03 j 17:29	0° \approx	
	950 Mar 17 j 06:02	0° Y		morning set	951 Feb 20 j 14:40	28° \approx 00'19	
					951 Feb 21 j 16:52	0° H	
superior conj	950 Mar 18 j 12:36	2° Y 37'25	-0°57'47	max. Earth dist.	951 Feb 24 j 08:26	4° H 56'03	1.36226 AU
minimum elong	950 Mar 18 j 15:26	2° Y 52'04	0°57'16				
asc. node	950 Mar 24 j 07:45	14° Y 45'26		superior conj	951 Mar 02 j 04:27	16° H 16'20	-1°23'28
evening rise	950 Mar 26 j 01:59	18° Y 25'37		minimum elong	951 Mar 02 j 08:17	16° H 35'28	1°22'54
	950 Mar 31 j 21:22	0° B			951 Mar 08 j 22:56	0° Y	
evening max el	950 Apr 14 j 11:27	19° B 48'20	21°05'36	evening rise	951 Mar 10 j 07:08	2° Y 43'37	
retrograde	950 Apr 26 j 05:26	25° B 31'10		asc. node	951 Mar 11 j 04:47	4° Y 33'01	
evening set	950 Apr 28 j 11:17	25° B 19'24			951 Mar 26 j 16:17	0° B	
desc. node	950 May 02 j 07:34	24° B 10'05		evening max el	951 Mar 27 j 21:28	1° B 14'28	19°51'53
inferior conj	950 May 07 j 19:40	21° B 20'39	-1°34'49	retrograde	951 Apr 06 j 22:01	6° B 03'50	
minimum elong	950 May 07 j 15:13	21° B 26'57	1°33'14	evening set	951 Apr 08 j 23:30	5° B 52'29	
min. Earth dist.	950 May 08 j 09:17	21° B 01'25	0.54953 AU	inferior conj	951 Apr 17 j 19:03	1° B 51'37	0°24'02
morning rise	950 May 16 j 19:11	17° B 18'02		minimum elong	951 Apr 17 j 20:07	1° B 49'59	0°23'40
direct	950 May 20 j 02:23	16° B 54'29		desc. node	951 Apr 19 j 04:36	1° B 00'00	
morning max el	950 Jun 01 j 23:06	23° B 02'48	22°33'30	min. Earth dist.	951 Apr 19 j 23:29	0° B 31'18	0.55560 AU
	950 Jun 08 j 02:29	0° II			951 Apr 20 j 20:36	30° R Y	
asc. node	950 Jun 20 j 07:01	20° II 23'06		morning rise	951 Apr 26 j 14:24	27° Y 21'12	
morning set	950 Jun 24 j 00:16	27° II 58'12		direct	951 Apr 30 j 18:03	26° Y 43'03	
	950 Jun 24 j 23:28	0° E			951 May 10 j 04:23	0° B	
				morning max el	951 May 14 j 15:01	3° B 37'34	24°14'54
superior conj	950 Jul 01 j 04:16	13° E 12'14	1°32'58		951 Jun 02 j 01:10	0° II	
minimum elong	950 Jul 01 j 02:04	13° E 00'36	1°32'45	asc. node	951 Jun 07 j 04:04	10° II 08'26	
max. Earth dist.	950 Jul 04 j 04:59	19° E 33'38	1.34185 AU	morning set	951 Jun 08 j 12:07	12° II 55'50	
evening rise	950 Jul 09 j 00:44	29° E 17'35					
	950 Jul 09 j 09:25	0° O		superior conj	951 Jun 15 j 12:29	28° II 03'14	1°18'01
	950 Jul 26 j 19:44	0° P		minimum elong	951 Jun 15 j 10:02	27° II 49'57	1°17'41
desc. node	950 Jul 29 j 06:56	3° P 36'36			951 Jun 16 j 10:06	0° E	
evening max el	950 Aug 12 j 16:34	21° P 07'09	27°10'09	max. Earth dist.	951 Jun 17 j 07:57	1° E 57'33	1.33163 AU
retrograde	950 Aug 26 j 00:51	28° P 26'06		evening rise	951 Jun 22 j 20:48	13° E 31'51	
evening set	950 Sep 01 j 23:47	25° P 41'06			951 Jul 01 j 12:48	0° O	
min. Earth dist.	950 Sep 05 j 19:28	22° P 00'08	0.64998 AU	desc. node	951 Jul 16 j 03:56	22° O 44'52	
inferior conj	950 Sep 07 j 22:21	19° P 38'09	-2°41'15		951 Jul 22 j 01:17	0° P	
minimum elong	950 Sep 08 j 02:28	19° P 26'37	2°39'47	evening max el	951 Jul 26 j 03:11	4° P 14'35	27°25'43
morning rise	950 Sep 14 j 05:58	14° P 05'16		retrograde	951 Aug 08 j 19:32	11° P 33'18	
asc. node	950 Sep 16 j 06:13	13° P 28'47		evening set	951 Aug 16 j 00:13	8° P 55'26	
direct	950 Sep 16 j 22:59	13° P 26'10		min. Earth dist.	951 Aug 19 j 15:06	5° P 47'07	0.63439 AU
morning max el	950 Sep 23 j 11:24	16° P 56'15	18°07'08	inferior conj	951 Aug 22 j 06:47	3° P 06'47	-3°34'07
	950 Oct 02 j 23:11	0° A		minimum elong	951 Aug 22 j 11:46	2° P 54'12	3°32'42
morning set	950 Oct 11 j 14:09	14° A 12'57			951 Aug 25 j 14:16	30° R O	
	950 Oct 21 j 04:51	0° M		morning rise	951 Aug 29 j 00:30	27° O 50'50	
desc. node	950 Oct 25 j 06:15	6° M 31'01		direct	951 Aug 31 j 13:05	27° O 20'07	
				asc. node	951 Sep 03 j 03:17	27° O 53'06	
superior conj	950 Oct 25 j 17:46	7° M 16'55	-0°03'13		951 Sep 06 j 07:55	0° P	
minimum elong	950 Oct 25 j 17:22	7° M 15'18	0°03'10	morning max el	951 Sep 07 j 03:22	0° P 45'49	17°52'58
behind sun begin	950 Oct 25 j 06:45	6° M 32'58		morning set	951 Sep 23 j 17:22	26° P 21'51	
behind sun end	950 Oct 26 j 03:59	7° M 57'35			951 Sep 25 j 19:28	0° A	
max. Earth dist.	950 Oct 29 j 08:51	13° M 01'59	1.44860 AU				
	950 Nov 09 j 05:27	0° X		superior conj	951 Oct 05 j 20:24	17° A 03'41	0°41'24
evening rise	950 Nov 11 j 04:39	3° X 02'55		minimum elong	951 Oct 06 j 00:25	17° A 20'18	0°40'52
greatest brilliancy	950 Nov 24 j 08:25	23° X 12'26	-0.7m	max. Earth dist.	951 Oct 12 j 01:22	27° A 10'15	1.43949 AU
	950 Nov 29 j 00:06	0° B		desc. node	951 Oct 12 j 03:16	27° A 17'54	
evening max el	950 Dec 06 j 11:13	9° B 23'42	19°46'47		951 Oct 13 j 19:53	0° M	
asc. node	950 Dec 13 j 05:28	13° B 41'48		evening rise	951 Oct 21 j 12:30	12° M 02'25	
retrograde	950 Dec 13 j 22:21	13° B 44'34			951 Nov 02 j 09:27	0° X	
evening set	950 Dec 17 j 11:51	12° B 30'16		evening max el	951 Nov 19 j 12:21	22° X 52'52	20°50'27
inferior conj	950 Dec 22 j 23:29	6° B 30'46	2°53'33	retrograde	951 Nov 27 j 20:01	27° X 48'22	
minimum elong	950 Dec 22 j 20:46	6° B 39'44	2°52'49	asc. node	951 Nov 30 j 02:32	27° X 19'19	
min. Earth dist.	950 Dec 23 j 23:57	5° B 09'47	0.66665 AU	evening set	951 Dec 01 j 18:58	26° X 19'01	
morning rise	950 Dec 28 j 05:27	0° B 17'55		inferior conj	951 Dec 07 j 04:10	20° X 08'27	2°14'52
	950 Dec 28 j 13:36	30° R X		minimum elong	951 Dec 07 j 01:38	20° X 17'08	2°14'00
direct	951 Jan 03 j 06:08	27° X 36'59		min. Earth dist.	951 Dec 07 j 16:08	19° X 27'28	0.67364 AU
	951 Jan 09 j 17:20	0° B		morning rise	951 Dec 12 j 08:06	13° X 55'07	
morning max el	951 Jan 15 j 08:24	4° B 48'55	25°29'07	direct	951 Dec 17 j 18:06	11° X 32'23	
desc. node	951 Jan 21 j 05:27	11° B 24'45		morning max el	951 Dec 28 j 16:40	18° X 03'58	24°03'59

	952 Jan 07 j 16:53	0°♄		desc. node	952 Dec 24 j 23:32	20°♄12'46	
desc. node	952 Jan 08 j 02:30	0°♄32'02			952 Dec 31 j 16:06	0°♄	
	952 Jan 27 j 19:38	0°♄		morning set	953 Jan 13 j 01:10	19°♄24'35	
morning set	952 Feb 02 j 09:41	9°♄23'29		max. Earth dist.	953 Jan 18 j 00:21	27°♄42'05	1.40375 AU
max. Earth dist.	952 Feb 06 j 04:11	16°♄00'47	1.38232 AU		953 Jan 19 j 08:35	0°♄	
superior conj	952 Feb 13 j 08:16	29°♄15'27	-1°45'14	superior conj	953 Jan 25 j 19:29	11°♄23'21	-1°59'49
minimum elong	952 Feb 13 j 12:15	29°♄34'25	1°44'51	minimum elong	953 Jan 25 j 21:58	11°♄34'35	1°59'43
	952 Feb 13 j 17:36	0°♄		evening rise	953 Feb 04 j 18:09	29°♄54'40	
evening rise	952 Feb 22 j 05:32	16°♄35'42			953 Feb 04 j 19:17	0°♄	
asc. node	952 Feb 26 j 01:50	24°♄02'59		asc. node	953 Feb 11 j 22:54	13°♄09'19	
	952 Feb 29 j 07:36	0°♄		evening max el	953 Feb 20 j 23:35	25°♄54'50	18°22'43
evening max el	952 Mar 09 j 18:24	13°♄18'43	18°57'16	retrograde	953 Feb 28 j 07:19	29°♄32'08	
retrograde	952 Mar 18 j 05:02	17°♄23'52		evening set	953 Mar 02 j 18:39	29°♄08'30	
evening set	952 Mar 20 j 10:46	17°♄07'49		inferior conj	953 Mar 10 j 00:42	24°♄32'08	3°07'09
inferior conj	952 Mar 28 j 11:16	12°♄51'56	2°02'39	minimum elong	953 Mar 10 j 04:19	24°♄24'36	3°06'25
minimum elong	952 Mar 28 j 15:18	12°♄44'47	2°01'27	min. Earth dist.	953 Mar 13 j 11:09	21°♄42'36	0.58957 AU
min. Earth dist.	952 Mar 31 j 15:26	10°♄38'02	0.56999 AU	morning rise	953 Mar 17 j 11:28	19°♄00'16	
desc. node	952 Apr 05 j 01:39	8°♄04'24		desc. node	953 Mar 22 j 22:42	17°♄19'40	
morning rise	952 Apr 05 j 16:47	7°♄48'07		direct	953 Mar 23 j 16:39	17°♄18'12	
direct	952 Apr 10 j 22:49	6°♄42'21		morning max el	953 Apr 07 j 00:56	25°♄00'24	27°02'42
morning max el	952 Apr 25 j 05:48	14°♄07'20	25°49'44		953 Apr 11 j 15:21	0°♄	
	952 May 07 j 19:43	0°♄			953 May 01 j 00:39	0°♄	
morning set	952 May 22 j 23:42	27°♄51'56		morning set	953 May 07 j 09:23	12°♄41'03	
	952 May 23 j 23:52	0°♄		asc. node	953 May 10 j 22:11	20°♄13'03	
asc. node	952 May 24 j 01:08	0°♄06'41		superior conj	953 May 14 j 11:12	27°♄58'10	0°36'43
superior conj	952 May 29 j 23:24	13°♄00'34	0°59'01	minimum elong	953 May 14 j 09:39	27°♄49'39	0°36'24
minimum elong	952 May 29 j 21:11	12°♄48'27	0°58'37	max. Earth dist.	953 May 14 j 06:03	27°♄29'54	1.32270 AU
max. Earth dist.	952 May 30 j 17:31	14°♄39'46	1.32530 AU		953 May 15 j 09:21	0°♄	
evening rise	952 Jun 06 j 00:19	28°♄07'17		evening rise	953 May 21 j 08:40	12°♄55'22	
	952 Jun 06 j 22:11	0°♄			953 May 30 j 01:07	0°♄	
	952 Jun 23 j 19:52	0°♄		desc. node	953 Jun 18 j 21:59	28°♄06'16	
desc. node	952 Jul 02 j 00:57	11°♄01'53		evening max el	953 Jun 19 j 10:38	28°♄36'49	26°20'17
evening max el	952 Jul 07 j 10:07	16°♄48'09	27°09'31		953 Jun 20 j 23:07	0°♄	
retrograde	952 Jul 21 j 07:13	24°♄03'37		retrograde	953 Jul 03 j 10:32	5°♄49'13	
evening set	952 Jul 28 j 09:22	21°♄46'08		evening set	953 Jul 09 j 22:32	4°♄04'27	
min. Earth dist.	952 Aug 01 j 00:20	19°♄01'17	0.61570 AU	min. Earth dist.	953 Jul 13 j 23:34	1°♄27'47	0.59519 AU
inferior conj	952 Aug 04 j 03:01	16°♄15'06	-4°18'34		953 Jul 15 j 21:21	30°♄	
minimum elong	952 Aug 04 j 07:41	16°♄04'39	4°17'41	inferior conj	953 Jul 17 j 07:25	28°♄53'12	-4°46'54
morning rise	952 Aug 11 j 07:34	11°♄19'18		minimum elong	953 Jul 17 j 09:45	28°♄48'39	4°46'44
direct	952 Aug 13 j 18:23	10°♄54'07		morning rise	953 Jul 24 j 23:03	24°♄20'08	
asc. node	952 Aug 20 j 00:21	13°♄43'03		direct	953 Jul 27 j 10:32	23°♄58'27	
morning max el	952 Aug 20 j 17:47	14°♄23'36	17°57'23	morning max el	953 Aug 04 j 03:34	27°♄41'19	18°21'31
	952 Aug 31 j 10:33	0°♄			953 Aug 06 j 07:08	0°♄	
morning set	952 Sep 05 j 15:50	9°♄26'16		asc. node	953 Aug 06 j 21:25	0°♄43'36	
				morning set	953 Aug 20 j 04:04	23°♄10'27	
superior conj	952 Sep 16 j 02:26	28°♄11'30	1°14'40		953 Aug 23 j 17:52	0°♄	
minimum elong	952 Sep 16 j 07:07	28°♄31'50	1°14'09	superior conj	953 Aug 29 j 08:40	10°♄31'06	1°35'25
	952 Sep 17 j 03:27	0°♄		minimum elong	953 Aug 29 j 11:50	10°♄45'36	1°35'10
max. Earth dist.	952 Sep 23 j 13:54	10°♄51'53	1.42451 AU	max. Earth dist.	953 Sep 05 j 21:03	23°♄52'43	1.40557 AU
desc. node	952 Sep 28 j 00:18	18°♄04'08			953 Sep 09 j 11:56	0°♄	
evening rise	952 Sep 30 j 01:46	21°♄20'51		evening rise	953 Sep 10 j 10:39	1°♄34'06	
	952 Oct 05 j 15:24	0°♄		desc. node	953 Sep 14 j 21:19	8°♄45'58	
	952 Oct 26 j 18:11	0°♄			953 Sep 29 j 00:54	0°♄	
evening max el	952 Nov 01 j 07:52	6°♄23'15	22°04'28	evening max el	953 Oct 14 j 22:38	19°♄55'20	23°23'59
retrograde	952 Nov 10 j 16:18	11°♄56'57		retrograde	953 Oct 25 j 09:47	26°♄06'46	
evening set	952 Nov 15 j 02:40	10°♄10'52		evening set	953 Oct 30 j 09:18	24°♄03'05	
asc. node	952 Nov 15 j 23:36	9°♄24'33		asc. node	953 Nov 02 j 20:39	20°♄14'28	
inferior conj	952 Nov 20 j 11:03	3°♄52'32	1°29'33	inferior conj	953 Nov 04 j 18:16	17°♄40'39	0°39'04
minimum elong	952 Nov 20 j 09:08	3°♄59'09	1°28'48	minimum elong	953 Nov 04 j 17:21	17°♄43'47	0°38'41
min. Earth dist.	952 Nov 20 j 11:43	3°♄50'11	0.67706 AU	min. Earth dist.	953 Nov 04 j 08:21	18°♄14'39	0.67713 AU
	952 Nov 23 j 09:30	30°♄		morning rise	953 Nov 10 j 01:21	11°♄32'30	
morning rise	952 Nov 25 j 15:27	27°♄40'46		direct	953 Nov 14 j 05:51	9°♄54'48	
direct	952 Nov 30 j 10:20	25°♄40'15		morning max el	953 Nov 22 j 18:55	14°♄53'46	21°13'14
	952 Dec 08 j 15:58	0°♄			953 Dec 04 j 18:33	0°♄	
morning max el	952 Dec 10 j 03:01	1°♄24'31	22°35'58				

desc. node	953 Dec 11 j 20:34	10°♊17'07		asc. node	954 Oct 20 j 17:40	0°♋33'23	
morning set	953 Dec 23 j 12:17	28°♊06'17			954 Oct 21 j 03:56	30°♋♌	
	953 Dec 24 j 17:08	0°♊		morning rise	954 Oct 25 j 11:52	25°♌29'12	
max. Earth dist.	953 Dec 31 j 02:39	10°♊17'34	1.42359 AU	direct	954 Oct 29 j 03:36	24°♌12'19	
				morning max el	954 Nov 05 j 18:24	28°♌34'01	20°01'32
superior conj	954 Jan 07 j 08:39	22°♊26'22	-2°02'52		954 Nov 07 j 02:51	0°♌	
minimum elong	954 Jan 07 j 07:18	22°♊20'36	2°02'50		954 Nov 28 j 07:28	0°♊	
	954 Jan 11 j 17:06	0°♊		desc. node	954 Nov 28 j 17:37	0°♊38'51	
evening rise	954 Jan 18 j 17:12	12°♊31'30		morning set	954 Dec 02 j 08:33	6°♊13'18	
	954 Jan 28 j 17:19	0°♊		max. Earth dist.	954 Dec 13 j 12:16	23°♊43'19	1.43919 AU
asc. node	954 Jan 29 j 19:56	1°♊43'48			954 Dec 17 j 09:55	0°♊	
evening max el	954 Feb 04 j 09:51	8°♊53'35	18°08'06				
retrograde	954 Feb 11 j 02:23	12°♊18'59		superior conj	954 Dec 18 j 19:35	2°♊16'56	-1°49'36
evening set	954 Feb 13 j 18:41	11°♊46'15		minimum elong	954 Dec 18 j 13:06	1°♊50'30	1°49'09
inferior conj	954 Feb 20 j 09:40	6°♊48'53	3°39'30	evening rise	954 Dec 31 j 22:27	24°♊18'30	
minimum elong	954 Feb 20 j 11:19	6°♊44'56	3°39'22		955 Jan 04 j 05:52	0°♊	
min. Earth dist.	954 Feb 23 j 13:41	3°♊47'51	0.61075 AU	asc. node	955 Jan 16 j 16:58	19°♊37'04	
morning rise	954 Feb 27 j 02:17	0°♊58'17		evening max el	955 Jan 18 j 22:15	22°♊07'38	18°12'48
	954 Feb 28 j 17:44	30°♋		retrograde	955 Jan 25 j 09:39	25°♊34'36	
direct	954 Mar 05 j 21:35	28°♊40'55		evening set	955 Jan 28 j 06:44	24°♊51'44	
desc. node	954 Mar 09 j 19:44	29°♊22'57		inferior conj	955 Feb 03 j 10:22	19°♊34'28	3°46'54
	954 Mar 11 j 08:08	0°♊		minimum elong	955 Feb 03 j 09:59	19°♊35'31	3°46'54
morning max el	954 Mar 20 j 02:29	6°♊32'48	27°42'37	min. Earth dist.	955 Feb 06 j 01:11	16°♊45'06	0.63079 AU
	954 Apr 06 j 19:10	0°♊		morning rise	955 Feb 09 j 12:18	13°♊32'55	
morning set	954 Apr 21 j 15:17	27°♊16'51		direct	955 Feb 16 j 11:41	10°♊50'42	
	954 Apr 22 j 22:45	0°♊		desc. node	955 Feb 24 j 16:47	13°♊54'37	
max. Earth dist.	954 Apr 27 j 17:40	10°♊14'44	1.32377 AU	morning max el	955 Mar 02 j 09:12	18°♊45'12	27°45'12
asc. node	954 Apr 27 j 19:14	10°♊23'12			955 Mar 11 j 21:43	0°♊	
					955 Mar 30 j 15:50	0°♊	
superior conj	954 Apr 28 j 22:11	12°♊50'23	0°11'53	morning set	955 Apr 05 j 15:07	11°♊31'01	
minimum elong	954 Apr 28 j 21:39	12°♊47'24	0°11'45	max. Earth dist.	955 Apr 11 j 00:12	22°♊39'18	1.32883 AU
behind sun begin	954 Apr 28 j 18:13	12°♊28'40					
behind sun end	954 Apr 29 j 01:04	13°♊06'09		superior conj	955 Apr 13 j 06:36	27°♊30'38	-0°14'46
evening rise	954 May 05 j 19:42	27°♊48'45		minimum elong	955 Apr 13 j 07:19	27°♊34'28	0°14'37
	954 May 06 j 20:38	0°♊		behind sun begin	955 Apr 13 j 05:15	27°♊23'17	
	954 May 23 j 22:25	0°♊		behind sun end	955 Apr 13 j 09:24	27°♊45'40	
evening max el	954 Jun 01 j 04:09	9°♊40'41	25°03'12		955 Apr 14 j 10:16	0°♊	
desc. node	954 Jun 05 j 18:59	13°♊29'02		asc. node	955 Apr 14 j 16:15	0°♊32'24	
retrograde	954 Jun 15 j 04:03	16°♊47'42		evening rise	955 Apr 20 j 07:29	12°♊40'11	
evening set	954 Jun 20 j 12:30	15°♊41'51			955 Apr 29 j 03:08	0°♊	
min. Earth dist.	954 Jun 25 j 15:41	12°♊54'57	0.57524 AU	evening max el	955 May 13 j 18:15	20°♊15'52	23°30'01
inferior conj	954 Jun 28 j 16:47	10°♊52'10	-4°47'36	desc. node	955 May 23 j 16:00	26°♊33'22	
minimum elong	954 Jun 28 j 14:34	10°♊55'54	4°47'28	retrograde	955 May 27 j 09:25	27°♊04'57	
morning rise	954 Jul 06 j 19:20	6°♊41'11		evening set	955 May 31 j 06:18	26°♊32'00	
direct	954 Jul 09 j 09:07	6°♊21'49		min. Earth dist.	955 Jun 07 j 04:35	23°♊20'09	0.55919 AU
morning max el	954 Jul 18 j 05:42	10°♊30'22	19°06'23	inferior conj	955 Jun 09 j 06:03	22°♊06'25	-4°07'16
asc. node	954 Jul 24 j 18:27	18°♊40'05		minimum elong	955 Jun 08 j 23:18	22°♊16'32	4°05'55
	954 Jul 31 j 06:44	0°♊		morning rise	955 Jun 17 j 19:01	18°♊10'35	
morning set	954 Aug 04 j 01:58	7°♊23'42		direct	955 Jun 20 j 12:18	17°♊52'16	
				morning max el	955 Jun 30 j 21:30	22°♊40'34	20°12'21
superior conj	954 Aug 12 j 09:27	23°♊46'44	1°45'07		955 Jul 07 j 01:37	0°♊	
minimum elong	954 Aug 12 j 10:34	23°♊52'09	1°45'04	asc. node	955 Jul 11 j 15:29	7°♊18'55	
	954 Aug 15 j 15:57	0°♊		morning set	955 Jul 19 j 06:29	21°♊57'00	
max. Earth dist.	954 Aug 19 j 00:28	6°♊10'38	1.38519 AU		955 Jul 23 j 04:44	0°♊	
evening rise	954 Aug 22 j 20:05	12°♊56'46					
desc. node	954 Sep 01 j 18:21	29°♊19'38		superior conj	955 Jul 26 j 23:31	7°♊42'22	1°45'49
	954 Sep 02 j 04:41	0°♊		minimum elong	955 Jul 26 j 22:54	7°♊39'14	1°45'48
	954 Sep 24 j 02:52	0°♊		max. Earth dist.	955 Aug 01 j 05:33	18°♊02'16	1.36595 AU
evening max el	954 Sep 27 j 10:49	3°♊31'10	24°42'46	evening rise	955 Aug 05 j 03:44	25°♊23'05	
retrograde	954 Oct 08 j 23:32	10°♊14'30			955 Aug 07 j 17:15	0°♊	
evening set	954 Oct 14 j 13:13	7°♊53'51		desc. node	955 Aug 19 j 15:22	19°♊39'20	
min. Earth dist.	954 Oct 19 j 03:42	2°♊39'15	0.67393 AU		955 Aug 26 j 17:25	0°♊	
inferior conj	954 Oct 20 j 00:07	1°♊31'23	-0°15'09	evening max el	955 Sep 09 j 22:31	17°♊09'23	25°53'37
minimum elong	954 Oct 20 j 00:30	1°♊30'08	0°14'59	retrograde	955 Sep 22 j 08:37	24°♊14'21	
transit middle	954 Oct 20 j 00:30	1°♊30'08	0°14'59	evening set	955 Sep 28 j 12:36	21°♊39'36	
transit begin	954 Oct 19 j 23:26	1°♊33'40		min. Earth dist.	955 Oct 02 j 19:22	17°♊00'36	0.66738 AU
transit end	954 Oct 20 j 01:34	1°♊26'36		inferior conj	955 Oct 04 j 02:48	15°♊21'25	-1°11'43

minimum elong	955 Oct 04 j 04:39	15° Ω 15'35	1°10'56	min. Earth dist.	956 Sep 15 j 04:53	1° Ω 14'38	0.65740 AU
asc. node	955 Oct 07 j 14:41	11° Ω 17'47			956 Sep 16 j 06:24	30° \mathbb{R} \mathbb{M}	
morning rise	955 Oct 09 j 21:00	9° Ω 27'59		inferior conj	956 Sep 17 j 00:18	29° \mathbb{M} 07'11	-2°08'55
direct	955 Oct 13 j 02:05	8° Ω 28'37		minimum elong	956 Sep 17 j 03:40	28° \mathbb{M} 57'20	2°07'37
morning max el	955 Oct 20 j 01:14	12° Ω 22'53	19°04'18	morning rise	956 Sep 23 j 02:36	23° \mathbb{M} 25'40	
	955 Nov 01 j 23:56	0° \mathbb{M}		asc. node	956 Sep 23 j 11:45	23° \mathbb{M} 14'25	
morning set	955 Nov 11 j 15:00	14° \mathbb{M} 58'20		direct	956 Sep 25 j 23:24	22° \mathbb{M} 40'05	
desc. node	955 Nov 15 j 14:40	21° \mathbb{M} 12'41		morning max el	956 Oct 02 j 13:40	26° \mathbb{M} 16'19	18°23'05
	955 Nov 21 j 05:20	0° \mathbb{X}			956 Oct 05 j 18:44	0° Ω	
max. Earth dist.	955 Nov 26 j 03:49	7° \mathbb{X} 45'20	1.44859 AU	morning set	956 Oct 22 j 00:13	25° Ω 05'21	
					956 Oct 25 j 01:08	0° \mathbb{M}	
superior conj	955 Nov 28 j 06:25	11° \mathbb{X} 04'55	-1°17'37	desc. node	956 Nov 01 j 11:41	11° \mathbb{M} 54'06	
minimum elong	955 Nov 27 j 21:56	10° \mathbb{X} 31'29	1°16'42				
	955 Dec 10 j 01:59	0° \mathbb{Z}		superior conj	956 Nov 06 j 07:14	19° \mathbb{M} 30'46	-0°31'33
evening rise	955 Dec 13 j 05:53	5° \mathbb{Z} 09'17		minimum elong	956 Nov 06 j 03:06	19° \mathbb{M} 14'31	0°31'01
	955 Dec 28 j 22:07	0° \approx		max. Earth dist.	956 Nov 07 j 22:42	22° \mathbb{M} 06'02	1.45078 AU
evening max el	956 Jan 02 j 10:11	5° \approx 31'14	18°35'57		956 Nov 12 j 23:31	0° \mathbb{X}	
asc. node	956 Jan 03 j 13:58	6° \approx 37'28		evening rise	956 Nov 22 j 13:42	15° \mathbb{X} 02'33	
retrograde	956 Jan 09 j 00:58	9° \approx 11'18			956 Dec 02 j 02:49	0° \mathbb{Z}	
evening set	956 Jan 12 j 03:26	8° \approx 17'13		greatest brilliancy	956 Dec 03 j 02:19	1° \mathbb{Z} 30'55	-0.8m
inferior conj	956 Jan 17 j 22:53	2° \approx 41'42	3°36'07	evening max el	956 Dec 15 j 19:14	18° \mathbb{Z} 58'50	19°16'24
minimum elong	956 Jan 17 j 21:04	2° \approx 47'09	3°35'53	asc. node	956 Dec 20 j 11:01	22° \mathbb{Z} 30'12	
min. Earth dist.	956 Jan 19 j 22:14	0° \approx 20'43	0.64783 AU	retrograde	956 Dec 22 j 20:51	23° \mathbb{Z} 02'03	
	956 Jan 20 j 05:23	30° \mathbb{R} \mathbb{Z}		evening set	956 Dec 26 j 05:57	21° \mathbb{Z} 55'24	
morning rise	956 Jan 23 j 14:14	26° \mathbb{Z} 33'56		inferior conj	956 Dec 31 j 19:48	16° \mathbb{Z} 03'50	3°12'03
direct	956 Jan 30 j 09:09	23° \mathbb{Z} 41'49		minimum elong	956 Dec 31 j 17:14	16° \mathbb{Z} 12'05	3°11'29
	956 Feb 11 j 05:36	0° \approx		min. Earth dist.	957 Jan 02 j 04:08	14° \mathbb{Z} 20'11	0.66098 AU
desc. node	956 Feb 11 j 13:49	0° \approx 19'18		morning rise	957 Jan 06 j 04:16	9° \mathbb{Z} 52'28	
morning max el	956 Feb 12 j 18:29	1° \approx 29'10	27°12'58	direct	957 Jan 12 j 12:41	7° \mathbb{Z} 04'31	
	956 Mar 05 j 00:43	0° \mathbb{X}		morning max el	957 Jan 25 j 03:58	14° \mathbb{Z} 32'34	26°12'47
morning set	956 Mar 19 j 06:02	25° \mathbb{X} 14'35		desc. node	957 Jan 28 j 10:53	18° \mathbb{Z} 04'29	
	956 Mar 21 j 15:56	0° \mathbb{Y}			957 Feb 06 j 19:38	0° \approx	
max. Earth dist.	956 Mar 23 j 21:55	4° \mathbb{Y} 33'06	1.33829 AU		957 Feb 25 j 19:08	0° \mathbb{X}	
				morning set	957 Mar 02 j 08:09	8° \mathbb{X} 15'20	
superior conj	956 Mar 27 j 10:34	11° \mathbb{Y} 52'59	-0°42'10	max. Earth dist.	957 Mar 06 j 08:18	15° \mathbb{X} 53'58	1.35234 AU
minimum elong	956 Mar 27 j 12:38	12° \mathbb{Y} 03'55	0°41'45				
asc. node	956 Mar 31 j 13:17	20° \mathbb{Y} 36'46		superior conj	957 Mar 11 j 07:38	25° \mathbb{X} 49'40	-1°09'00
evening rise	956 Apr 03 j 18:16	27° \mathbb{Y} 23'45		minimum elong	957 Mar 11 j 10:58	26° \mathbb{X} 06'37	1°08'26
	956 Apr 05 j 00:20	0° \mathbb{B}			957 Mar 13 j 08:26	0° \mathbb{Y}	
	956 Apr 23 j 15:06	0° \mathbb{I}		asc. node	957 Mar 18 j 10:20	10° \mathbb{Y} 31'34	
evening max el	956 Apr 24 j 11:58	0° \mathbb{I} 52'07	21°55'33	evening rise	957 Mar 19 j 02:05	11° \mathbb{Y} 52'39	
retrograde	956 May 07 j 02:30	7° \mathbb{I} 03'08			957 Mar 28 j 15:26	0° \mathbb{B}	
evening set	956 May 09 j 18:05	6° \mathbb{I} 47'31		evening max el	957 Apr 06 j 15:12	11° \mathbb{B} 55'06	20°31'59
desc. node	956 May 09 j 13:00	6° \mathbb{I} 49'52		retrograde	957 Apr 17 j 15:26	17° \mathbb{B} 14'32	
min. Earth dist.	956 May 18 j 16:52	2° \mathbb{I} 58'41	0.55043 AU	evening set	957 Apr 19 j 18:05	17° \mathbb{B} 03'36	
inferior conj	956 May 19 j 03:55	2° \mathbb{I} 43'12	-2°40'30	desc. node	957 Apr 26 j 10:02	14° \mathbb{B} 30'59	
minimum elong	956 May 18 j 21:01	2° \mathbb{I} 52'53	2°38'19	inferior conj	957 Apr 28 j 22:19	13° \mathbb{B} 05'56	-0°43'37
	956 May 24 j 10:31	30° \mathbb{R} \mathbb{B}		minimum elong	957 Apr 28 j 20:15	13° \mathbb{B} 08'54	0°42'51
morning rise	956 May 28 j 01:13	28° \mathbb{B} 48'26		min. Earth dist.	957 Apr 30 j 05:43	12° \mathbb{B} 20'32	0.55101 AU
direct	956 May 31 j 01:33	28° \mathbb{B} 28'16		morning rise	957 May 07 j 21:25	8° \mathbb{B} 53'32	
	956 Jun 06 j 07:27	0° \mathbb{I}		direct	957 May 11 j 12:27	8° \mathbb{B} 25'09	
morning max el	956 Jun 12 j 01:54	4° \mathbb{I} 06'41	21°37'42	morning max el	957 May 24 j 20:52	14° \mathbb{B} 54'00	23°16'33
asc. node	956 Jun 27 j 12:33	26° \mathbb{I} 29'55			957 Jun 05 j 14:48	0° \mathbb{I}	
	956 Jun 29 j 07:46	0° \mathbb{E}		asc. node	957 Jun 14 j 09:37	16° \mathbb{I} 04'29	
morning set	956 Jul 02 j 15:19	6° \mathbb{E} 44'11		morning set	957 Jun 17 j 02:34	21° \mathbb{I} 39'27	
					957 Jun 21 j 00:27	0° \mathbb{E}	
superior conj	956 Jul 09 j 22:55	22° \mathbb{E} 06'25	1°39'21				
minimum elong	956 Jul 09 j 21:07	21° \mathbb{E} 57'03	1°39'14	superior conj	957 Jun 24 j 04:37	6° \mathbb{E} 49'31	1°27'10
	956 Jul 13 j 19:06	0° Ω		minimum elong	957 Jun 24 j 02:14	6° \mathbb{E} 36'49	1°26'54
max. Earth dist.	956 Jul 13 j 18:13	29° \mathbb{E} 55'32	1.34963 AU	max. Earth dist.	957 Jun 26 j 16:28	12° \mathbb{E} 07'37	1.33702 AU
evening rise	956 Jul 18 j 05:00	8° Ω 41'00		evening rise	957 Jul 01 j 19:17	22° \mathbb{E} 37'37	
	956 Jul 30 j 06:45	0° \mathbb{M}			957 Jul 05 j 14:35	0° Ω	
desc. node	956 Aug 05 j 12:21	9° \mathbb{M} 38'39		desc. node	957 Jul 23 j 09:21	29° Ω 09'02	
	956 Aug 21 j 16:30	0° Ω			957 Jul 24 j 00:04	0° \mathbb{M}	
evening max el	956 Aug 22 j 10:43	0° Ω 44'33	26°48'38	evening max el	957 Aug 04 j 22:29	14° \mathbb{M} 06'00	27°20'27
retrograde	956 Sep 04 j 12:21	8° Ω 00'07		retrograde	957 Aug 18 j 10:19	21° \mathbb{M} 24'33	
evening set	956 Sep 11 j 05:17	5° Ω 16'43		evening set	957 Aug 25 j 12:38	18° \mathbb{M} 41'10	

min. Earth dist.	957 Aug 29 j 06:00	15° \mathbb{M} 14'54	0.64381 AU	evening set	958 Aug 08 j 07:08	1° \mathbb{M} 46'16	
inferior conj	957 Aug 31 j 14:20	12° \mathbb{M} 44'12	-3°04'20		958 Aug 10 j 13:40	30° \mathbb{R} 0	
minimum elong	957 Aug 31 j 18:56	12° \mathbb{M} 31'54	3°02'50	min. Earth dist.	958 Aug 11 j 21:03	28° \mathbb{Q} 49'51	0.62673 AU
morning rise	957 Sep 07 j 02:08	7° \mathbb{M} 18'03		inferior conj	958 Aug 14 j 17:59	26° \mathbb{Q} 04'58	-3°54'24
direct	957 Sep 09 j 17:04	6° \mathbb{M} 42'46		minimum elong	958 Aug 14 j 23:02	25° \mathbb{Q} 52'51	3°53'09
asc. node	957 Sep 10 j 08:50	6° \mathbb{M} 45'01		morning rise	958 Aug 21 j 16:17	20° \mathbb{Q} 57'35	
morning max el	957 Sep 16 j 05:14	10° \mathbb{M} 09'39	17°58'56	direct	958 Aug 24 j 03:50	20° \mathbb{Q} 29'31	
	957 Sep 29 j 16:27	0° \mathbb{Q}		asc. node	958 Aug 28 j 05:54	21° \mathbb{Q} 47'25	
morning set	957 Oct 03 j 13:41	6° \mathbb{Q} 35'14		morning max el	958 Aug 30 j 21:00	23° \mathbb{Q} 55'30	17°52'37
					958 Sep 04 j 17:57	0° \mathbb{M}	
superior conj	957 Oct 16 j 20:02	28° \mathbb{Q} 36'21	0°16'50	morning set	958 Sep 16 j 01:50	19° \mathbb{M} 09'53	
minimum elong	957 Oct 16 j 21:59	28° \mathbb{Q} 44'11	0°16'35		958 Sep 22 j 05:02	0° \mathbb{Q}	
	957 Oct 17 j 16:47	0° \mathbb{M}					
desc. node	957 Oct 19 j 08:42	2° \mathbb{M} 40'08		superior conj	958 Sep 27 j 10:25	8° \mathbb{Q} 58'17	0°57'03
max. Earth dist.	957 Oct 21 j 17:31	6° \mathbb{M} 26'25	1.44558 AU	minimum elong	958 Sep 27 j 15:06	9° \mathbb{Q} 18'05	0°56'28
evening rise	957 Nov 02 j 02:48	24° \mathbb{M} 13'10		max. Earth dist.	958 Oct 04 j 08:38	20° \mathbb{Q} 25'38	1.43371 AU
	957 Nov 05 j 21:09	0° \mathbb{M}		desc. node	958 Oct 06 j 05:43	23° \mathbb{Q} 27'12	
greatest brilliancy	957 Nov 16 j 06:08	15° \mathbb{M} 38'36	-0.6m		958 Oct 10 j 08:47	0° \mathbb{M}	
	957 Nov 26 j 18:15	0° \mathbb{Q}		evening rise	958 Oct 12 j 10:46	3° \mathbb{M} 15'06	
evening max el	957 Nov 28 j 23:33	2° \mathbb{Q} 27'50	20°12'16		958 Oct 30 j 09:08	0° \mathbb{M}	
retrograde	957 Dec 06 j 18:37	7° \mathbb{Q} 02'35		evening max el	958 Nov 11 j 22:08	15° \mathbb{M} 56'56	21°20'49
asc. node	957 Dec 07 j 08:05	7° \mathbb{Q} 00'48		retrograde	958 Nov 20 j 16:03	21° \mathbb{M} 08'57	
evening set	957 Dec 10 j 12:00	5° \mathbb{Q} 41'52		asc. node	958 Nov 24 j 05:09	19° \mathbb{M} 58'47	
inferior conj	957 Dec 15 j 22:21	29° \mathbb{M} 37'05	2°38'02	evening set	958 Nov 24 j 19:35	19° \mathbb{M} 32'35	
minimum elong	957 Dec 15 j 19:40	29° \mathbb{M} 46'09	2°37'13	inferior conj	958 Nov 30 j 04:14	13° \mathbb{M} 17'58	1°56'21
	957 Dec 15 j 15:33	30° \mathbb{R} 0		minimum elong	958 Nov 30 j 01:55	13° \mathbb{M} 25'58	1°55'31
min. Earth dist.	957 Dec 16 j 17:13	28° \mathbb{M} 33'33	0.67013 AU	min. Earth dist.	958 Nov 30 j 11:14	12° \mathbb{M} 53'51	0.67552 AU
morning rise	957 Dec 21 j 03:09	23° \mathbb{M} 23'57		morning rise	958 Dec 05 j 08:05	7° \mathbb{M} 04'55	
direct	957 Dec 26 j 21:41	20° \mathbb{M} 50'21		direct	958 Dec 10 j 11:29	4° \mathbb{M} 51'35	
morning max el	958 Jan 07 j 12:41	27° \mathbb{M} 45'58	24°53'52	morning max el	958 Dec 20 j 21:37	11° \mathbb{M} 03'52	23°26'19
	958 Jan 09 j 15:30	0° \mathbb{Q}		desc. node	959 Jan 02 j 04:59	26° \mathbb{M} 09'44	
desc. node	958 Jan 15 j 07:57	6° \mathbb{Q} 46'54			959 Jan 04 j 22:51	0° \mathbb{Q}	
	958 Jan 31 j 12:35	0° \mathbb{Q}			959 Jan 24 j 07:52	0° \mathbb{Q}	
morning set	958 Feb 12 j 16:20	20° \mathbb{Q} 19'03		morning set	959 Jan 25 j 00:19	1° \mathbb{Q} 09'11	
max. Earth dist.	958 Feb 16 j 08:14	26° \mathbb{Q} 57'04	1.37055 AU	max. Earth dist.	959 Jan 29 j 03:10	8° \mathbb{Q} 13'30	1.39142 AU
	958 Feb 17 j 23:34	0° \mathbb{M}					
superior conj	958 Feb 22 j 18:50	9° \mathbb{M} 12'33	-1°33'21	superior conj	959 Feb 05 j 16:11	21° \mathbb{Q} 51'18	-1°52'32
minimum elong	958 Feb 22 j 22:52	9° \mathbb{M} 32'21	1°32'51	minimum elong	959 Feb 05 j 19:46	22° \mathbb{Q} 08'05	1°52'17
evening rise	958 Mar 03 j 04:42	26° \mathbb{M} 00'31			959 Feb 09 j 23:24	0° \mathbb{M}	
asc. node	958 Mar 05 j 07:23	0° \mathbb{Y} 12'17		evening rise	959 Feb 14 j 23:22	9° \mathbb{M} 39'47	
	958 Mar 05 j 04:53	0° \mathbb{Y}		asc. node	959 Feb 20 j 04:26	19° \mathbb{M} 33'21	
evening max el	958 Mar 20 j 05:57	23° \mathbb{Y} 36'55	19°26'04		959 Feb 26 j 10:23	0° \mathbb{Y}	
retrograde	958 Mar 29 j 13:25	28° \mathbb{Y} 06'08		evening max el	959 Mar 03 j 06:45	5° \mathbb{Y} 56'03	18°40'07
evening set	958 Mar 31 j 16:08	27° \mathbb{Y} 53'16		retrograde	959 Mar 11 j 04:44	9° \mathbb{Y} 47'37	
inferior conj	958 Apr 09 j 03:47	23° \mathbb{Y} 46'37	1°09'45	evening set	959 Mar 13 j 12:41	9° \mathbb{Y} 28'45	
minimum elong	958 Apr 09 j 06:34	23° \mathbb{Y} 42'05	1°08'48	inferior conj	959 Mar 21 j 05:03	5° \mathbb{Y} 04'36	2°34'17
min. Earth dist.	958 Apr 11 j 20:17	22° \mathbb{Y} 02'12	0.56087 AU	minimum elong	959 Mar 21 j 09:14	4° \mathbb{Y} 56'40	2°33'12
desc. node	958 Apr 13 j 07:06	21° \mathbb{Y} 09'08		min. Earth dist.	959 Mar 24 j 13:53	2° \mathbb{Y} 32'32	0.57783 AU
morning rise	958 Apr 17 j 18:14	19° \mathbb{Y} 01'57			959 Mar 28 j 16:11	30° \mathbb{R} 0	
direct	958 Apr 22 j 08:41	18° \mathbb{Y} 13'52		morning rise	959 Mar 29 j 02:45	29° \mathbb{M} 47'20	
morning max el	958 May 06 j 11:37	25° \mathbb{Y} 22'56	24°57'12	desc. node	959 Mar 31 j 04:09	28° \mathbb{M} 59'47	
	958 May 10 j 19:06	0° \mathbb{Q}		direct	959 Apr 03 j 19:16	28° \mathbb{M} 26'39	
	958 May 29 j 09:28	0° \mathbb{M}			959 Apr 10 j 01:01	0° \mathbb{Y}	
asc. node	958 Jun 01 j 06:39	5° \mathbb{M} 55'47		morning max el	959 Apr 18 j 04:01	6° \mathbb{Y} 01'10	26°24'18
morning set	958 Jun 01 j 14:28	6° \mathbb{M} 36'56			959 May 05 j 19:47	0° \mathbb{Q}	
				morning set	959 May 17 j 01:28	21° \mathbb{Q} 31'21	
superior conj	958 Jun 08 j 14:11	21° \mathbb{M} 43'39	1°10'25	asc. node	959 May 19 j 03:42	25° \mathbb{Q} 58'32	
minimum elong	958 Jun 08 j 11:47	21° \mathbb{M} 30'32	1°10'02		959 May 21 j 00:17	0° \mathbb{M}	
max. Earth dist.	958 Jun 09 j 22:39	24° \mathbb{M} 40'06	1.32839 AU	superior conj	959 May 24 j 01:42	6° \mathbb{M} 42'28	0°49'56
	958 Jun 12 j 10:11	0° \mathbb{Q}		minimum elong	959 May 23 j 23:43	6° \mathbb{M} 31'36	0°49'33
evening rise	958 Jun 15 j 18:49	7° \mathbb{Q} 01'24		max. Earth dist.	959 May 24 j 09:48	7° \mathbb{M} 26'56	1.32366 AU
	958 Jun 28 j 02:45	0° \mathbb{Q}		evening rise	959 May 31 j 00:41	21° \mathbb{M} 43'31	
desc. node	958 Jul 10 j 06:23	17° \mathbb{Q} 57'44			959 Jun 04 j 02:31	0° \mathbb{Q}	
evening max el	958 Jul 18 j 07:39	26° \mathbb{Q} 59'45	27°22'54		959 Jun 22 j 08:37	0° \mathbb{Q}	
	958 Jul 21 j 19:16	0° \mathbb{M}		desc. node	959 Jun 27 j 03:25	5° \mathbb{Q} 47'18	
retrograde	958 Aug 01 j 02:07	4° \mathbb{M} 17'31		evening max el	959 Jun 30 j 11:54	9° \mathbb{Q} 14'40	26°52'29

retrograde	959 Jul 14 j 10:46	16°♎29'48		evening set	960 Jul 01 j 11:47	26°♏26'34	
evening set	959 Jul 21 j 08:23	14°♎24'44		min. Earth dist.	960 Jul 05 j 21:56	23°♏47'20	0.58644 AU
min. Earth dist.	959 Jul 25 j 01:52	11°♎45'33	0.60702 AU	inferior conj	960 Jul 09 j 04:30	21°♏24'03	-4°51'25
inferior conj	959 Jul 28 j 07:53	9°♎01'33	-4°33'13	minimum elong	960 Jul 09 j 05:07	21°♏22'55	4°51'25
minimum elong	959 Jul 28 j 11:52	8°♎53'10	4°32'38	morning rise	960 Jul 17 j 00:46	17°♏00'23	
morning rise	959 Aug 04 j 17:11	4°♎15'28		direct	960 Jul 19 j 12:57	16°♏39'52	
direct	959 Aug 07 j 03:52	3°♎52'08		morning max el	960 Jul 27 j 16:40	20°♏32'30	18°37'58
morning max el	959 Aug 14 j 09:52	7°♎26'13	18°05'12	asc. node	960 Jul 31 j 23:57	25°♏35'06	
asc. node	959 Aug 15 j 02:56	8°♎09'18			960 Aug 03 j 22:27	0°♎	
	959 Aug 28 j 21:56	0°♎		morning set	960 Aug 12 j 23:27	16°♎30'01	
morning set	959 Aug 30 j 06:42	2°♎32'30			960 Aug 19 j 23:05	0°♎	
superior conj	959 Sep 09 j 03:23	20°♎38'30	1°24'55	superior conj	960 Aug 21 j 18:07	3°♎23'21	1°40'45
minimum elong	959 Sep 09 j 07:34	20°♎57'07	1°24'31	minimum elong	960 Aug 21 j 20:24	3°♎34'07	1°40'37
	959 Sep 14 j 12:10	0°♎		max. Earth dist.	960 Aug 28 j 23:11	16°♎29'32	1.39693 AU
max. Earth dist.	959 Sep 16 j 18:15	3°♎48'40	1.41676 AU	evening rise	960 Sep 02 j 02:21	23°♎36'04	
evening rise	959 Sep 22 j 07:05	12°♎53'24			960 Sep 05 j 23:07	0°♎	
desc. node	959 Sep 23 j 02:44	14°♎12'05		desc. node	960 Sep 08 j 23:46	4°♎51'07	
	959 Oct 03 j 08:37	0°♎			960 Sep 26 j 05:22	0°♎	
evening max el	959 Oct 25 j 15:22	29°♎27'41	22°37'58	evening max el	960 Oct 07 j 04:55	13°♎02'08	23°58'07
	959 Oct 26 j 04:22	0°♎		retrograde	960 Oct 18 j 03:18	19°♎27'50	
retrograde	959 Nov 04 j 11:23	5°♎18'18		evening set	960 Oct 23 j 08:42	17°♎17'01	
evening set	959 Nov 09 j 03:02	3°♎24'59		asc. node	960 Oct 27 j 23:12	11°♎59'06	
asc. node	959 Nov 11 j 02:11	1°♎28'32		min. Earth dist.	960 Oct 28 j 04:04	11°♎42'38	0.67614 AU
	959 Nov 12 j 07:24	30°♎		inferior conj	960 Oct 28 j 18:20	10°♎54'16	0°16'29
inferior conj	959 Nov 14 j 11:29	27°♎04'19	1°08'41	minimum elong	960 Oct 28 j 17:56	10°♎55'37	0°16'19
minimum elong	959 Nov 14 j 09:58	27°♎09'35	1°08'04	morning rise	960 Nov 03 j 03:09	4°♎48'12	
min. Earth dist.	959 Nov 14 j 07:39	27°♎17'34	0.67747 AU	direct	960 Nov 07 j 02:05	3°♎19'26	
morning rise	959 Nov 19 j 16:45	20°♎53'31		morning max el	960 Nov 15 j 04:45	8°♎01'15	20°41'09
direct	959 Nov 24 j 05:20	19°♎02'44			960 Dec 01 j 18:42	0°♎	
morning max el	959 Dec 03 j 09:52	24°♎27'32	21°59'35	desc. node	960 Dec 05 j 23:02	6°♎14'25	
	959 Dec 08 j 07:27	0°♎		morning set	960 Dec 14 j 05:24	18°♎53'43	
desc. node	959 Dec 20 j 02:01	16°♎01'31			960 Dec 21 j 06:17	0°♎	
	959 Dec 29 j 09:56	0°♎		max. Earth dist.	960 Dec 23 j 06:27	3°♎13'57	1.43091 AU
morning set	960 Jan 05 j 03:11	10°♎34'25		superior conj	960 Dec 29 j 21:09	14°♎07'11	-1°59'30
max. Earth dist.	960 Jan 11 j 00:52	20°♎14'45	1.41253 AU	minimum elong	960 Dec 29 j 17:36	13°♎52'20	1°59'21
	960 Jan 16 j 18:04	0°♎			961 Jan 08 j 02:57	0°♎	
superior conj	960 Jan 18 j 18:41	3°♎33'18	-2°02'49	evening rise	961 Jan 10 j 22:45	4°♎58'56	
minimum elong	960 Jan 18 j 19:50	3°♎38'22	2°02'48	asc. node	961 Jan 23 j 22:31	26°♎46'07	
evening rise	960 Jan 29 j 06:42	22°♎41'46			961 Jan 26 j 09:48	0°♎	
	960 Feb 02 j 05:43	0°♎		evening max el	961 Jan 28 j 02:11	1°♎50'30	18°07'46
asc. node	960 Feb 07 j 01:29	8°♎27'21		retrograde	961 Feb 03 j 15:11	5°♎14'38	
evening max el	960 Feb 14 j 14:33	18°♎43'25	18°14'10	evening set	961 Feb 06 j 09:37	4°♎37'33	
retrograde	960 Feb 21 j 14:25	22°♎13'32			961 Feb 12 j 08:02	30°♎	
evening set	960 Feb 24 j 03:57	21°♎46'12		inferior conj	961 Feb 12 j 19:21	29°♎31'29	3°45'13
inferior conj	960 Mar 02 j 03:10	17°♎01'14	3°24'22	minimum elong	961 Feb 12 j 20:05	29°♎29'37	3°45'12
minimum elong	960 Mar 02 j 06:02	16°♎54'53	3°23'56	min. Earth dist.	961 Feb 15 j 18:14	26°♎33'10	0.61964 AU
min. Earth dist.	960 Mar 05 j 12:18	14°♎03'28	0.59857 AU	morning rise	961 Feb 19 j 05:17	23°♎35'50	
morning rise	960 Mar 09 j 05:55	11°♎20'22		direct	961 Feb 26 j 03:39	21°♎06'17	
direct	960 Mar 15 j 18:34	9°♎22'07		desc. node	961 Mar 03 j 22:14	22°♎37'31	
desc. node	960 Mar 17 j 01:12	9°♎26'31		morning max el	961 Mar 12 j 05:30	28°♎59'15	27°48'10
morning max el	960 Mar 30 j 01:41	17°♎09'42	27°24'03		961 Mar 13 j 05:27	0°♎	
	960 Apr 09 j 16:46	0°♎			961 Apr 03 j 13:21	0°♎	
	960 Apr 27 j 07:54	0°♎		morning set	961 Apr 14 j 13:19	20°♎42'57	
morning set	960 Apr 30 j 09:44	6°♎15'32			961 Apr 18 j 23:52	0°♎	
asc. node	960 May 05 j 00:44	16°♎07'09		max. Earth dist.	961 Apr 20 j 08:12	2°♎53'46	1.32551 AU
max. Earth dist.	960 May 06 j 22:14	20°♎15'46	1.32268 AU	superior conj	961 Apr 21 j 23:27	6°♎26'36	0°00'45
superior conj	960 May 07 j 13:21	21°♎38'44	0°26'28	minimum elong	961 Apr 21 j 23:25	6°♎26'26	0°00'44
minimum elong	960 May 07 j 12:11	21°♎32'22	0°26'12	behind sun begin	961 Apr 21 j 18:18	5°♎58'34	
	960 May 11 j 08:50	0°♎		behind sun end	961 Apr 22 j 04:32	6°♎54'19	
evening rise	960 May 14 j 10:23	6°♎34'49		asc. node	961 Apr 21 j 21:46	6°♎17'23	
	960 May 26 j 17:48	0°♎		evening rise	961 Apr 28 j 21:59	21°♎28'25	
evening max el	960 Jun 11 j 09:25	20°♎43'51	25°50'25		961 May 03 j 01:24	0°♎	
desc. node	960 Jun 13 j 00:26	22°♎12'36			961 May 22 j 12:02	0°♎	
retrograde	960 Jun 25 j 10:15	27°♎54'34		evening max el	961 May 24 j 00:56	1°♎32'48	24°24'35

desc. node	961 May 30 j 21:28	6°♄41'05		962 Apr 26 j 02:31	0°♄	
retrograde	961 Jun 06 j 22:15	8°♄33'22		evening max el	962 May 05 j 15:34	12°♄04'32 22°49'02
evening set	961 Jun 11 j 16:02	7°♄43'08		desc. node	962 May 17 j 18:28	18°♄37'09
min. Earth dist.	961 Jun 17 j 12:04	4°♄47'13 0.56779 AU		retrograde	962 May 18 j 22:04	18°♄40'09
inferior conj	961 Jun 20 j 05:09	3°♄03'57 -4°36'08		evening set	962 May 22 j 05:07	18°♄16'20
minimum elong	961 Jun 20 j 00:45	3°♄10'59 4°35'37		min. Earth dist.	962 May 30 j 00:08	14°♄50'34 0.55443 AU
	961 Jun 25 j 14:58	30°♄		inferior conj	962 May 31 j 10:52	14°♄00'41 -3°35'46
morning rise	961 Jun 28 j 12:11	29°♄00'28		minimum elong	962 May 31 j 03:18	14°♄11'34 3°33'50
direct	961 Jul 01 j 03:31	28°♄41'35		morning rise	962 Jun 09 j 03:54	10°♄07'58
	961 Jul 06 j 07:55	0°♄		direct	962 Jun 11 j 23:38	9°♄49'23
morning max el	961 Jul 10 j 14:30	3°♄05'14 19°31'53		morning max el	962 Jun 23 j 01:30	14°♄57'31 20°46'36
asc. node	961 Jul 18 j 20:59	13°♄50'51			962 Jul 04 j 04:56	0°♄
	961 Jul 27 j 13:56	0°♄		asc. node	962 Jul 05 j 18:03	2°♄45'01
morning set	961 Jul 28 j 00:28	0°♄52'39		morning set	962 Jul 12 j 07:07	15°♄33'28
					962 Jul 19 j 06:29	0°♄
superior conj	961 Aug 05 j 01:02	16°♄57'11 1°46'23		superior conj	962 Jul 19 j 19:35	1°♄07'10 1°43'51
minimum elong	961 Aug 05 j 01:22	16°♄58'46 1°46'23		minimum elong	962 Jul 19 j 18:23	1°♄01'04 1°43'49
max. Earth dist.	961 Aug 11 j 02:56	28°♄34'49 1.37676 AU		max. Earth dist.	962 Jul 24 j 10:57	10°♄25'40 1.35854 AU
	961 Aug 11 j 21:23	0°♄		evening rise	962 Jul 28 j 13:27	18°♄16'59
evening rise	961 Aug 14 j 21:40	5°♄26'37			962 Aug 04 j 02:27	0°♄
desc. node	961 Aug 26 j 20:46	25°♄19'33		desc. node	962 Aug 13 j 17:48	15°♄32'08
	961 Aug 29 j 22:18	0°♄			962 Aug 24 j 02:44	0°♄
evening max el	961 Sep 19 j 16:46	26°♄39'34 25°14'26		evening max el	962 Sep 02 j 04:33	10°♄17'23 26°19'20
	961 Sep 23 j 11:21	0°♄		retrograde	962 Sep 14 j 21:47	17°♄28'13
retrograde	961 Oct 01 j 14:56	3°♄32'45		evening set	962 Sep 21 j 07:43	14°♄48'34
evening set	961 Oct 07 j 10:53	1°♄05'37		min. Earth dist.	962 Sep 25 j 11:16	10°♄25'33 0.66359 AU
	961 Oct 08 j 14:52	30°♄		inferior conj	962 Sep 26 j 23:46	8°♄33'38 -1°36'01
min. Earth dist.	961 Oct 11 j 22:01	26°♄06'09 0.67155 AU		minimum elong	962 Sep 27 j 02:16	8°♄25'58 1°35'00
inferior conj	961 Oct 12 j 23:02	24°♄44'44 -0°38'56		asc. node	962 Oct 01 j 17:15	3°♄32'34
minimum elong	961 Oct 13 j 00:01	24°♄41'31 0°38'31		morning rise	962 Oct 02 j 21:15	2°♄45'10
asc. node	961 Oct 14 j 20:13	22°♄21'31		direct	962 Oct 05 j 22:30	1°♄52'13
morning rise	961 Oct 18 j 13:19	18°♄46'05		morning max el	962 Oct 12 j 17:04	5°♄37'34 18°44'48
direct	961 Oct 22 j 00:21	17°♄36'59			962 Oct 29 j 18:16	0°♄
morning max el	961 Oct 29 j 07:28	21°♄45'20 19°35'24		morning set	962 Nov 02 j 19:44	6°♄26'12
	961 Nov 05 j 00:57	0°♄		desc. node	962 Nov 09 j 17:05	17°♄19'32
greatest brilliancy	961 Nov 11 j 19:28	9°♄49'43 -0.7m			962 Nov 17 j 18:33	0°♄
desc. node	961 Nov 22 j 20:03	26°♄41'49		max. Earth dist.	962 Nov 18 j 12:56	1°♄12'13 1.45041 AU
morning set	961 Nov 23 j 03:00	27°♄08'42		superior conj	962 Nov 19 j 00:54	1°♄59'12 -0°59'12
	961 Nov 24 j 23:12	0°♄		minimum elong	962 Nov 18 j 17:36	1°♄30'34 0°58'19
max. Earth dist.	961 Dec 05 j 19:32	16°♄59'41 1.44405 AU		evening rise	962 Dec 04 j 16:29	26°♄48'50
superior conj	961 Dec 09 j 20:54	23°♄28'01 -1°38'16			962 Dec 06 j 16:05	0°♄
minimum elong	961 Dec 09 j 12:51	22°♄55'44 1°37'33		greatest brilliancy	962 Dec 11 j 00:45	7°♄00'19 -0.9m
	961 Dec 13 j 21:53	0°♄		evening max el	962 Dec 26 j 01:33	28°♄34'35 18°51'07
evening rise	961 Dec 23 j 19:08	16°♄22'50			962 Dec 27 j 13:50	0°♄
	961 Dec 31 j 22:14	0°♄		asc. node	962 Dec 28 j 16:35	0°♄52'06
asc. node	962 Jan 10 j 19:33	14°♄18'37		retrograde	963 Jan 01 j 20:14	2°♄23'48
evening max el	962 Jan 11 j 14:40	15°♄09'13 18°20'23		evening set	963 Jan 05 j 01:16	1°♄24'38
retrograde	962 Jan 18 j 02:28	18°♄40'28			963 Jan 06 j 21:28	30°♄
evening set	962 Jan 21 j 01:47	17°♄52'50		inferior conj	963 Jan 10 j 18:02	25°♄41'48 3°27'19
inferior conj	962 Jan 27 j 01:32	12°♄27'15 3°44'13		minimum elong	963 Jan 10 j 15:49	25°♄48'40 3°26'56
minimum elong	962 Jan 27 j 00:28	12°♄30'18 3°44'09		min. Earth dist.	963 Jan 12 j 10:49	23°♄35'59 0.65386 AU
min. Earth dist.	962 Jan 29 j 09:42	9°♄48'43 0.63850 AU		morning rise	963 Jan 16 j 06:00	19°♄31'57
morning rise	962 Feb 01 j 22:29	6°♄22'37		direct	963 Jan 22 j 20:51	16°♄40'10
direct	962 Feb 08 j 20:45	3°♄34'45		morning max el	963 Feb 04 j 23:39	24°♄21'39 26°50'20
desc. node	962 Feb 18 j 19:16	8°♄01'40		desc. node	963 Feb 05 j 16:18	25°♄04'05
morning max el	962 Feb 22 j 13:47	11°♄26'55 27°35'28			963 Feb 10 j 02:07	0°♄
	962 Mar 09 j 07:01	0°♄			963 Mar 02 j 16:31	0°♄
	962 Mar 26 j 23:16	0°♄		morning set	963 Mar 12 j 19:53	18°♄13'09
morning set	962 Mar 29 j 09:48	4°♄45'35		max. Earth dist.	963 Mar 17 j 04:55	26°♄47'52 1.34367 AU
max. Earth dist.	962 Apr 03 j 11:43	15°♄07'49 1.33236 AU			963 Mar 18 j 18:54	0°♄
superior conj	962 Apr 06 j 06:15	21°♄00'09 -0°26'22		superior conj	963 Mar 21 j 07:37	5°♄12'43 -0°53'43
minimum elong	962 Apr 06 j 07:32	21°♄07'03 0°26'05		minimum elong	963 Mar 21 j 10:15	5°♄26'26 0°53'13
asc. node	962 Apr 08 j 18:50	26°♄25'24		asc. node	963 Mar 26 j 15:54	16°♄26'30
	962 Apr 10 j 10:44	0°♄		evening rise	963 Mar 28 j 19:25	20°♄56'08
evening rise	962 Apr 13 j 09:36	6°♄17'43				

	963 Apr 02 j 07:02	0°♄			964 Mar 09 j 11:16	0°♃	
evening max el	963 Apr 17 j 12:44	22°♄49'51	21°18'09	evening rise	964 Mar 12 j 01:20	5°♃17'24	
retrograde	963 Apr 29 j 12:36	28°♄40'30		asc. node	964 Mar 12 j 12:58	6°♃16'25	
evening set	963 May 01 j 20:16	28°♄28'06			964 Mar 26 j 04:26	0°♄	
desc. node	963 May 04 j 15:31	27°♄42'42		evening max el	964 Mar 29 j 21:03	4°♄10'08	20°01'42
inferior conj	963 May 11 j 05:33	24°♄28'26	-1°52'47	retrograde	964 Apr 09 j 03:38	9°♄06'53	
minimum elong	963 May 11 j 00:19	24°♄35'48	1°50'59	evening set	964 Apr 11 j 05:06	8°♄55'49	
min. Earth dist.	963 May 11 j 12:47	24°♄18'15	0.54942 AU	inferior conj	964 Apr 20 j 03:11	4°♄56'21	0°06'44
morning rise	963 May 20 j 04:43	20°♄28'24		minimum elong	964 Apr 20 j 03:30	4°♄55'54	0°06'37
direct	963 May 23 j 09:45	20°♄06'01		transit middle	964 Apr 20 j 03:30	4°♄55'54	0°06'37
morning max el	963 Jun 05 j 01:40	26°♄06'55	22°18'41	transit begin	964 Apr 19 j 23:52	5°♄01'23	
	963 Jun 08 j 18:00	0°♂		transit end	964 Apr 20 j 07:08	4°♄50'25	
asc. node	963 Jun 22 j 15:07	22°♂07'11		desc. node	964 Apr 20 j 12:33	4°♄42'13	
morning set	963 Jun 26 j 17:13	0°♂25'09		min. Earth dist.	964 Apr 22 j 02:39	3°♄44'54	0.55414 AU
	963 Jun 26 j 12:24	0°♂		morning rise	964 Apr 28 j 23:50	0°♄30'53	
					964 May 01 j 14:21	30°♄♂	
superior conj	963 Jul 03 j 22:03	15°♂41'04	1°34'49	direct	964 May 03 j 00:03	29°♄55'35	
minimum elong	963 Jul 03 j 19:56	15°♂29'56	1°34'38		964 May 04 j 09:37	0°♄	
max. Earth dist.	963 Jul 07 j 03:24	22°♂24'44	1.34375 AU	morning max el	964 May 16 j 18:09	6°♄43'58	23°59'50
	963 Jul 10 j 21:41	0°♂			964 Jun 02 j 10:10	0°♂	
evening rise	963 Jul 11 j 20:48	1°♂53'19		asc. node	964 Jun 08 j 12:12	11°♂49'53	
	963 Jul 28 j 00:41	0°♂		morning set	964 Jun 10 j 04:57	15°♂22'06	
desc. node	963 Jul 31 j 14:50	5°♂20'48					
evening max el	963 Aug 15 j 16:32	23°♂47'41	27°05'19	superior conj	964 Jun 17 j 05:40	0°♂30'04	1°20'35
	963 Aug 24 j 05:40	0°♂		minimum elong	964 Jun 17 j 03:14	0°♂16'51	1°20'15
retrograde	963 Aug 28 j 23:23	1°♂06'10			964 Jun 17 j 00:07	0°♂	
	963 Sep 02 j 08:57	30°♂♂		max. Earth dist.	964 Jun 19 j 05:11	4°♂45'22	1.33292 AU
evening set	963 Sep 04 j 20:50	28°♂21'19		evening rise	964 Jun 24 j 15:28	16°♂03'14	
min. Earth dist.	963 Sep 08 j 17:29	24°♂34'51	0.65204 AU		964 Jul 01 j 22:27	0°♂	
inferior conj	963 Sep 10 j 18:25	22°♂16'23	-2°32'50	desc. node	964 Jul 17 j 11:51	24°♂35'19	
minimum elong	963 Sep 10 j 22:21	22°♂05'15	2°31'24		964 Jul 21 j 17:12	0°♂	
morning rise	963 Sep 17 j 00:37	16°♂41'08		evening max el	964 Jul 28 j 03:37	6°♂59'30	27°25'21
asc. node	963 Sep 18 j 14:19	16°♂08'00		retrograde	964 Aug 10 j 18:56	14°♂18'05	
direct	963 Sep 19 j 18:30	16°♂00'31		evening set	964 Aug 17 j 23:11	11°♂38'31	
morning max el	963 Sep 26 j 07:13	19°♂32'02	18°10'39	min. Earth dist.	964 Aug 21 j 14:39	8°♂25'41	0.63694 AU
	963 Oct 04 j 04:09	0°♂		inferior conj	964 Aug 24 j 04:24	5°♂47'37	-3°26'33
morning set	963 Oct 14 j 17:22	17°♂09'43		minimum elong	964 Aug 24 j 09:19	5°♂35'00	3°25'06
	963 Oct 22 j 13:40	0°♂		morning rise	964 Aug 30 j 20:33	0°♂28'46	
desc. node	963 Oct 27 j 14:08	8°♂03'32			964 Sep 01 j 14:55	30°♂♂	
				direct	964 Sep 02 j 09:39	29°♂56'58	
superior conj	963 Oct 29 j 04:22	10°♂35'34	-0°10'35		964 Sep 03 j 04:21	0°♂	
minimum elong	963 Oct 29 j 03:01	10°♂30'12	0°10'24	asc. node	964 Sep 04 j 11:23	0°♂18'23	
behind sun begin	963 Oct 28 j 18:32	9°♂56'33		morning max el	964 Sep 08 j 23:11	3°♂22'47	17°53'54
behind sun end	963 Oct 29 j 11:29	11°♂03'49		morning set	964 Sep 25 j 17:16	29°♂09'25	
max. Earth dist.	963 Nov 01 j 07:32	15°♂32'44	1.44939 AU		964 Sep 26 j 04:57	0°♂	
	963 Nov 10 j 13:15	0°♂					
evening rise	963 Nov 14 j 15:11	6°♂20'42		superior conj	964 Oct 08 j 03:08	20°♂10'58	0°35'18
greatest brilliancy	963 Nov 27 j 04:36	25°♂41'04	-0.7m	minimum elong	964 Oct 08 j 06:44	20°♂25'46	0°34'49
	963 Nov 30 j 02:14	0°♂		desc. node	964 Oct 13 j 11:08	28°♂50'23	
evening max el	963 Dec 09 j 08:44	12°♂03'08	19°38'30	max. Earth dist.	964 Oct 14 j 00:52	29°♂45'18	1.44129 AU
asc. node	963 Dec 15 j 13:37	16°♂11'48			964 Oct 14 j 04:33	0°♂	
retrograde	963 Dec 16 j 17:14	16°♂19'11		evening rise	964 Oct 23 j 23:52	15°♂21'56	
evening set	963 Dec 20 j 05:32	15°♂06'58			964 Nov 02 j 15:03	0°♂	
inferior conj	963 Dec 25 j 17:40	9°♂09'33	2°58'42	evening max el	964 Nov 21 j 10:44	25°♂32'25	20°40'14
minimum elong	963 Dec 25 j 14:59	9°♂18'24	2°58'01		964 Nov 27 j 13:21	0°♂	
min. Earth dist.	963 Dec 26 j 20:11	7°♂42'31	0.66529 AU	retrograde	964 Nov 29 j 14:56	0°♂22'14	
morning rise	963 Dec 31 j 00:11	2°♂57'02		asc. node	964 Dec 01 j 10:40	0°♂03'30	
direct	964 Jan 06 j 03:00	0°♂13'52			964 Dec 01 j 14:32	30°♂♂	
morning max el	964 Jan 18 j 08:48	7°♂30'34	25°40'56	evening set	964 Dec 03 j 12:24	28°♂55'08	
desc. node	964 Jan 23 j 13:21	13°♂16'19		inferior conj	964 Dec 08 j 21:52	22°♂46'03	2°21'09
	964 Feb 04 j 22:22	0°♂		minimum elong	964 Dec 08 j 19:16	22°♂54'53	2°20'19
	964 Feb 23 j 03:38	0°♂		min. Earth dist.	964 Dec 09 j 11:34	21°♂59'17	0.67287 AU
morning set	964 Feb 23 j 15:10	0°♂52'35		morning rise	964 Dec 14 j 01:57	16°♂32'49	
max. Earth dist.	964 Feb 27 j 10:12	7°♂57'24	1.35954 AU	direct	964 Dec 19 j 14:13	14°♂07'04	
				morning max el	964 Dec 30 j 17:03	20°♂44'59	24°17'05
superior conj	964 Mar 04 j 00:58	18°♂56'55	-1°19'46		965 Jan 07 j 16:10	0°♂	
minimum elong	964 Mar 04 j 04:41	19°♂15'36	1°19'11	desc. node	965 Jan 09 j 10:23	2°♂17'24	

	965 Jan 28 j 03:54	0°♊		morning set	966 Jan 16 j 09:32	22°♊40'06	
morning set	965 Feb 04 j 13:45	12°♊26'31			966 Jan 20 j 18:19	0°♊	
max. Earth dist.	965 Feb 08 j 06:46	19°♊00'27	1.37921 AU	max. Earth dist.	966 Jan 21 j 02:25	0°♊34'39	1.40061 AU
	965 Feb 14 j 05:09	0°♋					
superior conj	965 Feb 15 j 06:47	2°♋02'29	-1°42'19	superior conj	966 Jan 28 j 20:43	14°♊18'19	-1°58'15
minimum elong	965 Feb 15 j 10:50	2°♋21'54	1°41'54	minimum elong	966 Jan 28 j 23:33	14°♊31'18	1°58'07
evening rise	965 Feb 24 j 00:53	19°♋13'43		evening rise	966 Feb 06 j 05:57	0°♋	
asc. node	965 Feb 27 j 10:00	25°♋49'26		asc. node	966 Feb 07 j 15:08	2°♋37'54	
	965 Mar 01 j 15:18	0°♌		evening max el	966 Feb 14 j 07:01	14°♋59'36	
evening max el	965 Mar 12 j 16:26	16°♌08'45	19°04'07		966 Feb 23 j 20:29	28°♋40'09	18°26'35
retrograde	965 Mar 21 j 08:03	20°♌19'35		retrograde	966 Feb 25 j 08:48	0°♌	
evening set	965 Mar 23 j 13:01	20°♌04'25		evening set	966 Mar 03 j 07:36	2°♌20'48	
inferior conj	965 Mar 31 j 16:24	15°♌51'03	1°49'46		966 Mar 05 j 18:01	1°♌58'29	
minimum elong	965 Mar 31 j 20:13	15°♌44'26	1°48'36	inferior conj	966 Mar 09 j 16:47	30°♌♋	
min. Earth dist.	965 Apr 03 j 18:04	13°♌44'26	0.56745 AU	minimum elong	966 Mar 13 j 02:38	27°♋25'12	2°59'33
desc. node	965 Apr 07 j 09:35	11°♌35'24		minimum elong	966 Mar 13 j 06:28	27°♋17'25	2°58'45
morning rise	965 Apr 09 j 00:27	10°♌52'12		min. Earth dist.	966 Mar 16 j 13:04	24°♋39'28	0.58641 AU
direct	965 Apr 14 j 02:32	9°♌51'26		morning rise	966 Mar 20 j 16:14	21°♋56'47	
morning max el	965 Apr 28 j 08:40	17°♌12'25	25°36'43	desc. node	966 Mar 25 j 06:37	20°♋26'10	
	965 May 08 j 20:40	0°♍		direct	966 Mar 26 j 18:18	20°♋20'24	
morning set	965 May 25 j 16:40	0°♍18'54		morning max el	966 Apr 10 j 03:00	28°♋00'55	26°53'51
	965 May 25 j 13:05	0°♍			966 Apr 12 j 01:32	0°♌	
asc. node	965 May 26 j 09:16	1°♍46'44		morning set	966 May 02 j 10:22	0°♍	
				asc. node	966 May 10 j 02:42	15°♍09'38	
superior conj	965 Jun 01 j 16:17	15°♍26'48	1°02'09		966 May 13 j 06:18	21°♍52'24	
minimum elong	965 Jun 01 j 14:00	15°♍14'20	1°01'44		966 May 16 j 23:29	0°♍	
max. Earth dist.	965 Jun 02 j 14:03	17°♍25'51	1.32598 AU	superior conj	966 May 17 j 04:01	0°♍24'53	0°40'18
	965 Jun 08 j 11:03	0°♎		minimum elong	966 May 17 j 02:20	0°♍15'41	0°39'57
evening rise	965 Jun 08 j 18:02	0°♎36'07		max. Earth dist.	966 May 17 j 02:21	0°♍15'48	1.32280 AU
	965 Jun 24 j 23:08	0°♏		evening rise	966 May 24 j 01:46	15°♍22'48	
desc. node	965 Jul 04 j 08:53	13°♏01'34			966 May 31 j 10:20	0°♎	
evening max el	965 Jul 10 j 11:16	19°♏39'11	27°14'05		966 Jun 20 j 22:33	0°♏	
retrograde	965 Jul 24 j 07:36	26°♏55'00		desc. node	966 Jun 21 j 05:55	0°♏18'50	
evening set	965 Jul 31 j 10:55	24°♏33'33		evening max el	966 Jun 22 j 12:43	1°♏34'39	26°29'37
min. Earth dist.	965 Aug 04 j 01:23	21°♏46'11	0.61863 AU	retrograde	966 Jun 06 j 12:22	8°♏47'56	
inferior conj	965 Aug 07 j 02:41	18°♏59'54	-4°12'43	evening set	966 Jul 13 j 03:22	6°♏57'27	
minimum elong	965 Aug 07 j 07:31	18°♏48'53	4°11'43	min. Earth dist.	966 Jul 17 j 01:52	4°♏20'52	0.59826 AU
morning rise	965 Aug 14 j 05:36	14°♏00'59		inferior conj	966 Jul 20 j 09:39	1°♏43'06	-4°44'08
direct	965 Aug 16 j 16:35	13°♏35'05		minimum elong	966 Jul 20 j 12:30	1°♏37'26	4°43'53
asc. node	965 Aug 22 j 08:27	15°♏56'40			966 Jul 22 j 15:13	30°♌♎	
morning max el	965 Aug 23 j 14:02	17°♏03'15	17°55'32	morning rise	966 Jul 27 j 23:39	27°♎06'45	
	965 Sep 01 j 18:07	0°♐		direct	966 Jul 30 j 10:53	26°♎44'41	
morning set	965 Sep 08 j 13:17	12°♐07'16			966 Aug 06 j 14:03	0°♏	
	965 Sep 18 j 13:35	0°♑		morning max el	966 Aug 07 j 00:43	0°♏24'49	18°16'39
superior conj	965 Sep 19 j 05:13	1°♑07'41	1°10'26	asc. node	966 Aug 09 j 05:29	2°♏47'36	
minimum elong	965 Sep 19 j 09:59	1°♑28'14	1°09'53	morning set	966 Aug 22 j 23:42	25°♏46'16	
max. Earth dist.	965 Sep 26 j 14:23	13°♑33'22	1.42707 AU		966 Aug 25 j 05:09	0°♐	
desc. node	965 Sep 30 j 08:10	19°♑37'19		superior conj	966 Sep 01 j 08:12	13°♐17'51	1°33'01
evening rise	965 Oct 03 j 11:19	24°♑35'28		minimum elong	966 Sep 01 j 11:39	13°♐33'34	1°32'43
	965 Oct 06 j 22:42	0°♒		max. Earth dist.	966 Sep 08 j 22:08	26°♐40'14	1.40854 AU
	965 Oct 27 j 16:13	0°♓			966 Sep 10 j 21:21	0°♑	
evening max el	965 Nov 04 j 07:02	9°♓02'43	21°52'52	evening rise	966 Sep 13 j 16:42	4°♑39'07	
retrograde	965 Nov 13 j 11:32	14°♓30'39		desc. node	966 Sep 17 j 05:12	10°♑20'18	
evening set	965 Nov 17 j 20:07	12°♓47'02			966 Sep 30 j 04:54	0°♒	
asc. node	965 Nov 18 j 07:41	12°♓22'35		evening max el	966 Oct 17 j 22:20	22°♒34'26	23°11'56
inferior conj	965 Nov 23 j 04:32	6°♓29'31	1°36'46	retrograde	966 Oct 28 j 05:35	28°♒40'47	
minimum elong	965 Nov 23 j 02:30	6°♓36'32	1°36'00	evening set	966 Nov 02 j 03:01	26°♒39'44	
min. Earth dist.	965 Nov 23 j 06:47	6°♓21'43	0.67683 AU	asc. node	966 Nov 05 j 04:42	23°♒22'10	
morning rise	965 Nov 28 j 08:44	0°♓17'26		inferior conj	966 Nov 07 j 11:48	20°♒17'31	0°47'02
	965 Nov 28 j 17:09	30°♒♒		minimum elong	966 Nov 07 j 10:43	20°♒21'14	0°46'34
direct	965 Dec 03 j 05:48	28°♒13'39		min. Earth dist.	966 Nov 07 j 03:25	20°♒46'19	0.67735 AU
	965 Dec 08 j 07:02	0°♔		morning rise	966 Nov 12 j 18:21	14°♒08'35	
morning max el	965 Dec 13 j 02:55	4°♔04'57	22°48'50	direct	966 Nov 17 j 00:51	12°♒27'37	
desc. node	965 Dec 27 j 07:24	21°♔53'44		morning max el	966 Nov 25 j 17:51	17°♒33'09	21°24'53
	966 Jan 01 j 21:45	0°♕			966 Dec 05 j 20:40	0°♔	

desc. node	966 Dec 14 j 04:27	11° ♄ 55'14		morning rise	967 Oct 28 j 04:53	28° ♄ 04'40	
	966 Dec 26 j 01:00	0° ♄		direct	967 Oct 31 j 22:24	26° ♄ 44'48	
morning set	966 Dec 27 j 00:30	1° ♄ 32'37			967 Nov 07 j 10:12	0° ♄	
max. Earth dist.	967 Jan 03 j 03:27	13° ♄ 01'28	1.42085 AU	morning max el	967 Nov 08 j 16:07	1° ♄ 11'34	20°11'20
					967 Nov 29 j 14:05	0° ♄	
superior conj	967 Jan 10 j 13:31	25° ♄ 32'03	-2°03'22	desc. node	967 Dec 01 j 01:29	2° ♄ 14'47	
minimum elong	967 Jan 10 j 12:53	25° ♄ 29'22	2°03'21	morning set	967 Dec 05 j 21:30	9° ♄ 40'27	
	967 Jan 13 j 03:02	0° ♄		max. Earth dist.	967 Dec 16 j 11:53	26° ♄ 20'11	1.43722 AU
evening rise	967 Jan 21 j 16:29	15° ♄ 21'54			967 Dec 18 j 18:31	0° ♄	
	967 Jan 29 j 21:55	0° ♄					
asc. node	967 Feb 01 j 04:02	3° ♄ 39'42		superior conj	967 Dec 22 j 04:32	5° ♄ 34'04	-1°52'49
evening max el	967 Feb 07 j 06:11	11° ♄ 36'25	18°09'03	minimum elong	967 Dec 21 j 22:46	5° ♄ 10'24	1°52'28
retrograde	967 Feb 14 j 00:21	15° ♄ 02'42		evening rise	968 Jan 04 j 00:41	27° ♄ 17'05	
evening set	967 Feb 16 j 15:54	14° ♄ 31'27			968 Jan 05 j 14:17	0° ♄	
inferior conj	967 Feb 23 j 08:55	9° ♄ 37'22	3°36'22	asc. node	968 Jan 19 j 01:03	21° ♄ 40'12	
minimum elong	967 Feb 23 j 10:53	9° ♄ 32'43	3°36'10	evening max el	968 Jan 21 j 18:31	24° ♄ 49'09	18°10'54
min. Earth dist.	967 Feb 26 j 14:33	6° ♄ 36'16	0.60757 AU	retrograde	968 Jan 28 j 06:03	28° ♄ 14'55	
morning rise	967 Mar 02 j 04:02	3° ♄ 48'55		evening set	968 Jan 31 j 02:25	27° ♄ 33'36	
direct	967 Mar 08 j 21:53	1° ♄ 36'10		inferior conj	968 Feb 06 j 07:32	22° ♄ 19'18	3°47'05
desc. node	967 Mar 12 j 03:38	2° ♄ 04'48		minimum elong	968 Feb 06 j 07:26	22° ♄ 19'35	3°47'04
morning max el	967 Mar 23 j 03:38	9° ♄ 27'34	27°39'02	min. Earth dist.	968 Feb 09 j 00:35	19° ♄ 26'56	0.62799 AU
	967 Apr 07 j 23:45	0° ♄		morning rise	968 Feb 12 j 11:25	16° ♄ 19'10	
morning set	967 Apr 24 j 09:17	29° ♄ 48'11		direct	968 Feb 19 j 10:54	13° ♄ 39'38	
	967 Apr 24 j 11:34	0° ♄		desc. node	968 Feb 27 j 00:41	16° ♄ 16'30	
asc. node	967 Apr 30 j 03:20	12° ♄ 02'35		morning max el	968 Mar 04 j 09:36	21° ♄ 34'06	27°47'06
max. Earth dist.	967 Apr 30 j 14:16	13° ♄ 02'14	1.32333 AU		968 Mar 11 j 18:29	0° ♄	
					968 Mar 31 j 01:44	0° ♄	
superior conj	967 May 01 j 15:13	15° ♄ 18'39	0°15'47	morning set	968 Apr 07 j 10:10	14° ♄ 05'56	
minimum elong	967 May 01 j 14:30	15° ♄ 14'44	0°15'38	max. Earth dist.	968 Apr 12 j 21:43	25° ♄ 30'02	1.32782 AU
behind sun begin	967 May 01 j 13:42	15° ♄ 10'19			968 Apr 14 j 23:57	0° ♄	
behind sun end	967 May 01 j 15:19	15° ♄ 19'09					
	967 May 08 j 09:28	0° ♄		superior conj	968 Apr 15 j 00:08	0° ♄ 01'03	-0°10'40
evening rise	967 May 08 j 12:30	0° ♄		minimum elong	968 Apr 15 j 00:39	0° ♄ 03'49	0°10'32
	967 May 24 j 20:58	0° ♄		behind sun begin	968 Apr 14 j 20:43	29° ♄ 42'34	
evening max el	967 Jun 04 j 07:08	12° ♄ 44'45	25°16'07	behind sun end	968 Apr 15 j 04:35	0° ♄ 25'04	
desc. node	967 Jun 08 j 02:55	15° ♄ 59'19		asc. node	968 Apr 16 j 00:22	2° ♄ 12'12	
retrograde	967 Jun 18 j 07:36	19° ♄ 53'16		evening rise	968 Apr 22 j 00:17	15° ♄ 08'08	
evening set	967 Jun 23 j 20:49	18° ♄ 41'42			968 Apr 29 j 11:05	0° ♄	
min. Earth dist.	967 Jun 28 j 18:56	15° ♄ 57'16	0.57806 AU	evening max el	968 May 15 j 21:25	23° ♄ 22'35	23°44'21
inferior conj	967 Jul 01 j 21:59	13° ♄ 48'28	-4°49'53	desc. node	968 May 24 j 23:56	29° ♄ 26'44	
minimum elong	967 Jul 01 j 20:33	13° ♄ 50'57	4°49'50		968 May 27 j 00:46	0° ♄	
morning rise	967 Jul 09 j 22:55	9° ♄ 34'22		retrograde	968 May 29 j 14:42	0° ♄ 15'09	
direct	967 Jul 12 j 12:10	9° ♄ 14'47			968 Jun 01 j 05:13	30° ♄	
morning max el	967 Jul 21 j 04:09	13° ♄ 18'50	18°58'18	evening set	968 Jun 02 j 16:53	29° ♄ 38'17	
asc. node	967 Jul 27 j 02:32	20° ♄ 36'35		min. Earth dist.	968 Jun 09 j 08:08	26° ♄ 30'54	0.56121 AU
	967 Aug 01 j 16:12	0° ♄		inferior conj	968 Jun 11 j 14:06	25° ♄ 09'15	-4°16'29
morning set	967 Aug 06 j 20:21	9° ♄ 55'29		minimum elong	968 Jun 11 j 07:51	25° ♄ 18'46	4°15'22
				morning rise	968 Jun 20 j 01:33	21° ♄ 11'43	
superior conj	967 Aug 15 j 06:30	26° ♄ 25'48	1°44'15	direct	968 Jun 22 j 18:16	20° ♄ 53'17	
minimum elong	967 Aug 15 j 07:56	26° ♄ 32'37	1°44'12	morning max el	968 Jul 02 j 21:33	25° ♄ 34'58	20°01'11
	967 Aug 17 j 03:35	0° ♄			968 Jul 06 j 21:40	0° ♄	
max. Earth dist.	967 Aug 22 j 01:31	9° ♄ 02'34	1.38824 AU	asc. node	968 Jul 12 j 23:36	9° ♄ 09'49	
evening rise	967 Aug 25 j 22:27	15° ♄ 51'14		morning set	968 Jul 21 j 00:03	24° ♄ 26'18	
	967 Sep 03 j 12:11	0° ♄			968 Jul 23 j 17:30	0° ♄	
desc. node	967 Sep 04 j 02:14	0° ♄ 55'20					
	967 Sep 24 j 20:17	0° ♄		superior conj	968 Jul 28 j 18:52	10° ♄ 16'12	1°46'11
evening max el	967 Sep 30 j 10:44	6° ♄ 09'35	24°31'24	minimum elong	968 Jul 28 j 18:29	10° ♄ 14'15	1°46'12
retrograde	967 Oct 11 j 19:58	12° ♄ 48'53		max. Earth dist.	968 Aug 03 j 06:04	20° ♄ 56'58	1.36868 AU
evening set	967 Oct 17 j 07:26	10° ♄ 30'47		evening rise	968 Aug 07 j 03:05	28° ♄ 08'54	
min. Earth dist.	967 Oct 21 j 23:10	5° ♄ 10'53	0.67459 AU		968 Aug 08 j 03:43	0° ♄	
inferior conj	967 Oct 22 j 17:58	4° ♄ 08'01	-0°06'42	desc. node	968 Aug 20 j 23:15	21° ♄ 17'41	
minimum elong	967 Oct 22 j 18:08	4° ♄ 07'28	0°06'39		968 Aug 26 j 20:22	0° ♄	
transit middle	967 Oct 22 j 18:08	4° ♄ 07'28	0°06'39	evening max el	968 Sep 11 j 22:33	19° ♄ 48'18	25°43'57
transit begin	967 Oct 22 j 15:38	4° ♄ 15'51		retrograde	968 Sep 24 j 05:44	26° ♄ 50'25	
transit end	967 Oct 22 j 20:38	3° ♄ 59'06		evening set	968 Sep 30 j 07:38	24° ♄ 17'37	
asc. node	967 Oct 23 j 01:44	3° ♄ 42'05		min. Earth dist.	968 Oct 04 j 15:34	19° ♄ 33'12	0.66856 AU
	967 Oct 26 j 01:48	30° ♄		inferior conj	968 Oct 05 j 21:16	17° ♄ 58'38	-1°03'02

minimum elong	968 Oct 05 j 22:53	17° Ω 53'28	1°02'21	minimum elong	969 Sep 19 j 22:51	1° Ω 36'08	1°59'04
asc. node	968 Oct 08 j 22:48	14° Ω 19'18			969 Sep 21 j 07:54	30° \mathbb{R} \mathbb{M}	
morning rise	968 Oct 11 j 14:23	12° Ω 03'39		morning rise	969 Sep 25 j 20:43	26° \mathbb{M} 02'03	
direct	968 Oct 14 j 20:58	11° Ω 01'49		asc. node	969 Sep 25 j 19:53	26° \mathbb{M} 03'11	
morning max el	968 Oct 21 j 21:55	14° Ω 59'23	19°11'50	direct	969 Sep 28 j 18:38	25° \mathbb{M} 14'38	
	968 Nov 02 j 04:48	0° \mathbb{M}		morning max el	969 Oct 05 j 09:43	28° \mathbb{M} 52'48	18°28'11
morning set	968 Nov 14 j 01:00	18° \mathbb{M} 16'03			969 Oct 06 j 11:02	0° Ω	
desc. node	968 Nov 16 j 22:31	22° \mathbb{M} 47'07		morning set	969 Oct 25 j 05:52	28° Ω 10'11	
	968 Nov 21 j 13:18	0° \mathbb{X}			969 Oct 26 j 09:10	0° \mathbb{M}	
max. Earth dist.	968 Nov 28 j 02:57	10° \mathbb{X} 18'58	1.44765 AU	desc. node	969 Nov 03 j 19:32	13° \mathbb{M} 27'42	
superior conj	968 Nov 30 j 18:23	14° \mathbb{X} 29'48	-1°23'35	superior conj	969 Nov 09 j 19:17	22° \mathbb{M} 54'48	-0°39'00
minimum elong	968 Nov 30 j 09:48	13° \mathbb{X} 55'46	1°22'42	minimum elong	969 Nov 09 j 14:13	22° \mathbb{M} 34'52	0°38'19
	968 Dec 10 j 10:14	0° \mathbb{Z}		max. Earth dist.	969 Nov 10 j 21:48	24° \mathbb{M} 39'02	1.45095 AU
evening rise	968 Dec 15 j 11:34	8° \mathbb{Z} 16'40			969 Nov 14 j 07:34	0° \mathbb{X}	
	968 Dec 28 j 22:22	0° \approx		evening rise	969 Nov 25 j 22:50	18° \mathbb{X} 18'10	
evening max el	969 Jan 04 j 06:44	8° \approx 12'03	18°31'22		969 Dec 03 j 08:44	0° \mathbb{Z}	
asc. node	969 Jan 04 j 22:06	8° \approx 49'45		greatest brilliancy	969 Dec 05 j 16:25	3° \mathbb{Z} 37'51	-0.8m
retrograde	969 Jan 10 j 20:25	11° \approx 49'20		evening max el	969 Dec 18 j 16:19	21° \mathbb{Z} 39'04	19°09'20
evening set	969 Jan 13 j 22:06	10° \approx 56'54		asc. node	969 Dec 22 j 19:10	24° \mathbb{Z} 53'40	
inferior conj	969 Jan 19 j 18:34	5° \approx 23'54	3°38'40	retrograde	969 Dec 25 j 15:54	25° \mathbb{Z} 38'21	
minimum elong	969 Jan 19 j 16:55	5° \approx 28'46	3°38'29	evening set	969 Dec 28 j 23:55	24° \mathbb{Z} 33'38	
min. Earth dist.	969 Jan 21 j 20:12	2° \approx 58'06	0.64557 AU	inferior conj	970 Jan 03 j 14:27	18° \mathbb{Z} 44'08	3°16'21
	969 Jan 24 j 15:49	30° \mathbb{R} \mathbb{Z}		minimum elong	970 Jan 03 j 11:57	18° \mathbb{Z} 52'04	3°15'51
morning rise	969 Jan 25 j 11:15	29° \mathbb{Z} 16'56		min. Earth dist.	970 Jan 05 j 00:53	16° \mathbb{Z} 54'44	0.65928 AU
direct	969 Feb 01 j 07:17	26° \mathbb{Z} 25'30		morning rise	970 Jan 08 j 23:43	12° \mathbb{Z} 33'06	
	969 Feb 09 j 23:29	0° \approx		direct	970 Jan 15 j 09:54	9° \mathbb{Z} 43'56	
desc. node	969 Feb 12 j 21:43	2° \approx 26'25		morning max el	970 Jan 28 j 04:22	17° \mathbb{Z} 15'44	26°23'11
morning max el	969 Feb 14 j 18:40	4° \approx 14'06	27°19'42	desc. node	970 Jan 30 j 18:45	20° \mathbb{Z} 01'02	
	969 Mar 06 j 06:45	0° \mathbb{X}			970 Feb 07 j 20:20	0° \approx	
morning set	969 Mar 22 j 02:38	27° \mathbb{X} 54'31			970 Feb 27 j 04:41	0° \mathbb{X}	
	969 Mar 23 j 04:09	0° \mathbb{Y}		morning set	970 Mar 05 j 06:59	11° \mathbb{X} 02'42	
max. Earth dist.	969 Mar 26 j 21:03	7° \mathbb{Y} 29'08	1.33665 AU	max. Earth dist.	970 Mar 09 j 09:21	18° \mathbb{X} 55'17	1.34997 AU
superior conj	969 Mar 30 j 04:55	14° \mathbb{Y} 26'23	-0°38'01	superior conj	970 Mar 14 j 03:13	28° \mathbb{X} 27'31	-1°05'02
minimum elong	969 Mar 30 j 06:47	14° \mathbb{Y} 36'17	0°37'38	minimum elong	970 Mar 14 j 06:22	28° \mathbb{X} 43'42	1°04'29
asc. node	969 Apr 02 j 21:25	22° \mathbb{Y} 17'30			970 Mar 14 j 21:13	0° \mathbb{Y}	
evening rise	969 Apr 06 j 11:22	29° \mathbb{Y} 53'17		asc. node	970 Mar 20 j 18:30	12° \mathbb{Y} 14'16	
	969 Apr 06 j 12:39	0° \mathbb{B}		evening rise	970 Mar 21 j 19:48	14° \mathbb{Y} 25'08	
	969 Apr 23 j 23:31	0° \mathbb{I}			970 Mar 29 j 20:49	0° \mathbb{B}	
evening max el	969 Apr 27 j 14:08	3° \mathbb{I} 56'24	22°09'04	evening max el	970 Apr 09 j 15:41	14° \mathbb{B} 54'26	20°43'23
retrograde	969 May 10 j 09:11	10° \mathbb{I} 14'09		retrograde	970 Apr 20 j 22:13	20° \mathbb{B} 22'13	
desc. node	969 May 11 j 20:58	10° \mathbb{I} 09'09		evening set	970 Apr 23 j 01:42	20° \mathbb{B} 11'07	
evening set	969 May 13 j 04:19	9° \mathbb{I} 56'50		desc. node	970 Apr 28 j 17:59	18° \mathbb{B} 10'36	
min. Earth dist.	969 May 21 j 20:11	6° \mathbb{I} 14'34	0.55119 AU	inferior conj	970 May 02 j 07:38	16° \mathbb{B} 13'21	-1°01'54
inferior conj	969 May 22 j 13:37	5° \mathbb{I} 50'05	-2°56'13	minimum elong	970 May 02 j 04:42	16° \mathbb{B} 17'33	1°00'50
minimum elong	969 May 22 j 06:20	6° \mathbb{I} 00'19	2°54'02	min. Earth dist.	970 May 03 j 08:55	15° \mathbb{B} 37'10	0.55027 AU
morning rise	969 May 31 j 09:58	1° \mathbb{I} 56'32		morning rise	970 May 11 j 07:05	12° \mathbb{B} 04'50	
direct	969 Jun 03 j 09:00	1° \mathbb{I} 36'53		direct	970 May 14 j 19:09	11° \mathbb{B} 38'23	
morning max el	969 Jun 15 j 03:34	7° \mathbb{I} 07'14	21°24'01	morning max el	970 May 27 j 23:46	18° \mathbb{B} 00'06	23°01'28
asc. node	969 Jun 29 j 20:40	28° \mathbb{I} 16'33			970 Jun 06 j 17:15	0° \mathbb{I}	
	969 Jun 30 j 18:23	0° \mathbb{O}		asc. node	970 Jun 16 j 17:44	17° \mathbb{I} 48'19	
morning set	969 Jul 05 j 08:24	9° \mathbb{O} 11'58		morning set	970 Jun 19 j 19:25	24° \mathbb{I} 06'51	
					970 Jun 22 j 13:59	0° \mathbb{O}	
superior conj	969 Jul 12 j 17:06	24° \mathbb{O} 36'43	1°40'44	superior conj	970 Jun 26 j 22:04	9° \mathbb{O} 18'01	1°29'22
minimum elong	969 Jul 12 j 15:27	24° \mathbb{O} 28'08	1°40'37	minimum elong	970 Jun 26 j 19:45	9° \mathbb{O} 05'38	1°29'06
	969 Jul 15 j 08:00	0° Ω		max. Earth dist.	970 Jun 29 j 14:24	14° \mathbb{O} 58'27	1.33861 AU
max. Earth dist.	969 Jul 16 j 17:35	2° Ω 49'31	1.35180 AU	evening rise	970 Jul 04 j 14:40	25° \mathbb{O} 11'51	
evening rise	969 Jul 21 j 02:02	11° Ω 19'56			970 Jul 07 j 01:52	0° Ω	
	969 Jul 31 j 14:26	0° \mathbb{M}			970 Jul 25 j 01:18	0° \mathbb{M}	
desc. node	969 Aug 07 j 20:17	11° \mathbb{M} 20'55		desc. node	970 Jul 25 j 17:20	0° \mathbb{M} 56'46	
	969 Aug 22 j 03:20	0° Ω		evening max el	970 Aug 07 j 22:32	16° \mathbb{M} 48'45	27°17'23
evening max el	969 Aug 25 j 10:43	3° Ω 24'44	26°41'45	retrograde	970 Aug 21 j 09:07	24° \mathbb{M} 07'32	
retrograde	969 Sep 07 j 10:14	10° Ω 39'04		evening set	970 Aug 28 j 10:26	21° \mathbb{M} 23'18	
evening set	969 Sep 14 j 01:29	7° Ω 56'24		min. Earth dist.	970 Sep 01 j 04:33	17° \mathbb{M} 52'04	0.64608 AU
min. Earth dist.	969 Sep 18 j 02:07	3° Ω 48'58	0.65913 AU	inferior conj	970 Sep 03 j 11:00	15° \mathbb{M} 24'11	-2°56'13
inferior conj	969 Sep 19 j 19:43	1° Ω 45'27	-2°00'18				

minimum elong	970 Sep 03 j 15:26	15° \mathbb{M} 12'07	2°54'42		971 Jul 21 j 13:35	0° \mathbb{M}	
morning rise	970 Sep 09 j 21:20	9° \mathbb{M} 55'41		retrograde	971 Aug 04 j 02:01	7° \mathbb{M} 05'33	
direct	970 Sep 12 j 12:56	9° \mathbb{M} 19'09		evening set	971 Aug 11 j 07:05	4° \mathbb{M} 31'38	
asc. node	970 Sep 12 j 16:55	9° \mathbb{M} 19'17		min. Earth dist.	971 Aug 14 j 21:11	1° \mathbb{M} 31'18	0.62947 AU
morning max el	970 Sep 19 j 01:02	12° \mathbb{M} 46'52	18°01'25		971 Aug 16 j 10:56	30° \mathbb{R} 0	
	970 Oct 01 j 00:02	0° \mathbb{L}		inferior conj	971 Aug 17 j 16:21	28° \mathbb{L} 47'40	-3°47'25
morning set	970 Oct 06 j 15:23	9° \mathbb{L} 28'37		minimum elong	971 Aug 17 j 21:25	28° \mathbb{L} 35'17	3°46'06
	970 Oct 19 j 01:28	0° \mathbb{M}		morning rise	971 Aug 24 j 13:03	23° \mathbb{L} 37'16	
				direct	971 Aug 27 j 00:52	23° \mathbb{L} 08'22	
superior conj	970 Oct 20 j 05:10	1° \mathbb{M} 51'30	0°09'52	asc. node	971 Aug 30 j 13:58	24° \mathbb{L} 08'05	
minimum elong	970 Oct 20 j 06:20	1° \mathbb{M} 56'13	0°09'42	morning max el	971 Sep 02 j 16:56	26° \mathbb{L} 34'09	17°52'22
behind sun begin	970 Oct 19 j 21:51	1° \mathbb{M} 22'06			971 Sep 05 j 16:08	0° \mathbb{M}	
behind sun end	970 Oct 20 j 14:49	2° \mathbb{M} 30'16		morning set	971 Sep 19 j 00:32	21° \mathbb{M} 54'36	
desc. node	970 Oct 21 j 16:36	4° \mathbb{M} 13'28			971 Sep 23 j 14:54	0° \mathbb{L}	
max. Earth dist.	970 Oct 24 j 16:39	9° \mathbb{M} 00'00	1.44682 AU				
evening rise	970 Nov 05 j 14:03	27° \mathbb{M} 33'21		superior conj	971 Sep 30 j 15:24	12° \mathbb{L} 01'13	0°51'44
	970 Nov 07 j 04:07	0° \mathbb{X}		minimum elong	971 Sep 30 j 19:55	12° \mathbb{L} 20'10	0°51'08
greatest brilliancy	970 Nov 19 j 15:01	18° \mathbb{X} 53'35	-0.6m	max. Earth dist.	971 Oct 07 j 08:13	23° \mathbb{L} 02'27	1.43585 AU
	970 Nov 27 j 12:44	0° \mathbb{Z}		desc. node	971 Oct 08 j 13:38	25° \mathbb{L} 00'46	
evening max el	970 Dec 01 j 21:22	5° \mathbb{Z} 07'34	20°03'03		971 Oct 11 j 16:54	0° \mathbb{M}	
retrograde	970 Dec 09 j 13:33	9° \mathbb{Z} 37'26		evening rise	971 Oct 15 j 21:36	6° \mathbb{M} 33'38	
asc. node	970 Dec 09 j 16:12	9° \mathbb{Z} 37'22			971 Oct 31 j 12:33	0° \mathbb{X}	
evening set	970 Dec 13 j 05:33	8° \mathbb{Z} 18'58		evening max el	971 Nov 14 j 20:49	18° \mathbb{X} 36'55	21°09'59
inferior conj	970 Dec 18 j 16:18	2° \mathbb{Z} 15'53	2°43'41	retrograde	971 Nov 23 j 11:08	23° \mathbb{X} 43'11	
minimum elong	970 Dec 18 j 13:36	2° \mathbb{Z} 24'58	2°42'55	asc. node	971 Nov 26 j 13:12	22° \mathbb{X} 49'50	
min. Earth dist.	970 Dec 19 j 13:05	1° \mathbb{Z} 06'17	0.66901 AU	evening set	971 Nov 27 j 13:00	22° \mathbb{X} 09'22	
	970 Dec 20 j 09:13	30° \mathbb{R} \mathbb{X}		inferior conj	971 Dec 02 j 21:48	15° \mathbb{X} 56'04	2°03'06
morning rise	970 Dec 23 j 21:27	26° \mathbb{X} 02'45		minimum elong	971 Dec 02 j 19:24	16° \mathbb{X} 04'21	2°02'15
direct	970 Dec 29 j 18:06	23° \mathbb{X} 26'30		min. Earth dist.	971 Dec 03 j 06:31	15° \mathbb{X} 26'03	0.67494 AU
	971 Jan 10 j 01:55	0° \mathbb{Z}		morning rise	971 Dec 08 j 01:37	9° \mathbb{X} 42'49	
morning max el	971 Jan 10 j 13:14	0° \mathbb{Z} 28'11	25°06'23	direct	971 Dec 13 j 07:21	7° \mathbb{X} 26'06	
desc. node	971 Jan 17 j 15:47	8° \mathbb{Z} 35'52		morning max el	971 Dec 23 j 21:53	13° \mathbb{X} 45'25	23°39'29
	971 Feb 01 j 19:06	0° \mathbb{M}		desc. node	972 Jan 04 j 12:50	27° \mathbb{X} 53'39	
morning set	971 Feb 15 j 18:14	23° \mathbb{M} 16'11			972 Jan 06 j 01:34	0° \mathbb{Z}	
	971 Feb 19 j 10:43	0° \mathbb{X}			972 Jan 25 j 16:43	0° \mathbb{M}	
max. Earth dist.	971 Feb 19 j 10:31	29° \mathbb{M} 59'02	1.36756 AU	morning set	972 Jan 28 j 06:13	4° \mathbb{M} 18'24	
				max. Earth dist.	972 Feb 01 j 05:27	11° \mathbb{M} 10'24	1.38822 AU
superior conj	971 Feb 25 j 16:05	11° \mathbb{X} 55'59	-1°29'56				
minimum elong	971 Feb 25 j 20:05	12° \mathbb{X} 15'41	1°29'24	superior conj	972 Feb 08 j 15:47	24° \mathbb{M} 42'10	-1°50'07
evening rise	971 Mar 05 j 23:20	28° \mathbb{X} 36'34		minimum elong	972 Feb 08 j 19:33	24° \mathbb{M} 59'55	1°49'49
	971 Mar 06 j 15:58	0° \mathbb{Y}			972 Feb 11 j 10:45	0° \mathbb{X}	
asc. node	971 Mar 07 j 15:32	1° \mathbb{Y} 57'28		evening rise	972 Feb 17 j 19:22	12° \mathbb{X} 20'29	
evening max el	971 Mar 23 j 04:46	26° \mathbb{Y} 30'33	19°34'42	asc. node	972 Feb 22 j 12:34	21° \mathbb{X} 21'47	
	971 Mar 28 j 00:46	0° \mathbb{Z}			972 Feb 27 j 11:27	0° \mathbb{Y}	
retrograde	971 Apr 01 j 18:09	1° \mathbb{Z} 06'43		evening max el	972 Mar 05 j 04:17	8° \mathbb{Y} 44'41	18°45'42
evening set	971 Apr 03 j 20:15	0° \mathbb{Z} 54'30		retrograde	972 Mar 13 j 06:27	12° \mathbb{Y} 40'36	
	971 Apr 06 j 18:27	30° \mathbb{R} \mathbb{Y}		evening set	972 Mar 15 j 13:36	12° \mathbb{Y} 22'48	
inferior conj	971 Apr 12 j 10:45	26° \mathbb{Y} 50'04	0°54'00	inferior conj	972 Mar 23 j 08:48	8° \mathbb{Y} 01'42	2°23'40
minimum elong	971 Apr 12 j 12:59	26° \mathbb{Y} 46'30	0°53'13	minimum elong	972 Mar 23 j 12:59	7° \mathbb{Y} 53'57	2°22'32
min. Earth dist.	971 Apr 14 j 23:21	25° \mathbb{Y} 13'52	0.55882 AU	min. Earth dist.	972 Mar 26 j 16:23	5° \mathbb{Y} 35'31	0.57499 AU
desc. node	971 Apr 15 j 15:00	24° \mathbb{Y} 49'55		morning rise	972 Mar 31 j 09:17	2° \mathbb{Y} 48'56	
morning rise	971 Apr 21 j 03:04	22° \mathbb{Y} 10'23		desc. node	972 Apr 01 j 12:01	2° \mathbb{Y} 21'59	
direct	971 Apr 25 j 13:35	21° \mathbb{Y} 26'04		direct	972 Apr 05 j 22:17	1° \mathbb{Y} 33'33	
morning max el	971 May 09 j 14:50	28° \mathbb{Y} 30'32	24°42'41	morning max el	972 Apr 20 j 06:34	9° \mathbb{Y} 05'08	26°12'44
	971 May 11 j 02:48	0° \mathbb{Z}			972 May 06 j 01:37	0° \mathbb{Z}	
	971 May 30 j 20:39	0° \mathbb{II}		morning set	972 May 18 j 18:30	23° \mathbb{Z} 59'01	
asc. node	971 Jun 03 j 14:47	7° \mathbb{II} 37'31		asc. node	972 May 20 j 11:50	27° \mathbb{Z} 38'39	
morning set	971 Jun 04 j 07:19	9° \mathbb{II} 04'18			972 May 21 j 14:04	0° \mathbb{II}	
superior conj	971 Jun 11 j 07:11	24° \mathbb{II} 11'03	1°13'14	superior conj	972 May 25 j 18:29	9° \mathbb{II} 09'09	0°53'15
minimum elong	971 Jun 11 j 04:45	23° \mathbb{II} 57'49	1°12'51	minimum elong	972 May 25 j 16:25	8° \mathbb{II} 57'47	0°52'52
max. Earth dist.	971 Jun 12 j 19:27	27° \mathbb{II} 27'34	1.32941 AU	max. Earth dist.	972 May 26 j 06:00	10° \mathbb{II} 12'21	1.32414 AU
	971 Jun 13 j 23:47	0° \mathbb{Z}		evening rise	972 Jun 01 j 18:03	24° \mathbb{II} 11'49	
evening rise	971 Jun 18 j 13:00	9° \mathbb{Z} 32'13			972 Jun 04 j 14:12	0° \mathbb{Z}	
	971 Jun 29 j 10:15	0° \mathbb{L}			972 Jun 22 j 06:02	0° \mathbb{L}	
desc. node	971 Jul 12 j 14:21	19° \mathbb{L} 52'42		desc. node	972 Jun 28 j 11:21	7° \mathbb{L} 52'09	
evening max el	971 Jul 21 j 08:11	29° \mathbb{L} 47'13	27°24'33	evening max el	972 Jul 02 j 13:23	12° \mathbb{L} 08'31	26°59'10

retrograde	972 Jul 16 j 11:45	19°♌23'50		retrograde	973 Jun 28 j 12:35	0°♌55'58	
evening set	972 Jul 23 j 11:10	17°♌14'12			973 Jul 03 j 07:29	30°♌	
min. Earth dist.	972 Jul 27 j 03:34	14°♌33'18	0.61006 AU	evening set	973 Jul 04 j 18:05	29°♌22'04	
inferior conj	972 Jul 30 j 08:31	11°♌48'11	-4°28'26	min. Earth dist.	973 Jul 09 j 00:41	26°♌44'07	0.58946 AU
minimum elong	972 Jul 30 j 12:47	11°♌38'58	4°27'46	inferior conj	973 Jul 12 j 07:57	24°♌16'31	-4°50'33
morning rise	972 Aug 06 j 16:09	6°♌58'36		minimum elong	973 Jul 12 j 09:13	24°♌14'07	4°50'31
direct	972 Aug 09 j 02:47	6°♌34'42		morning rise	973 Jul 20 j 02:35	19°♌49'31	
asc. node	972 Aug 16 j 11:00	10°♌18'31		direct	973 Jul 22 j 14:32	19°♌28'35	
morning max el	972 Aug 16 j 06:21	10°♌07'05	18°02'03	morning max el	973 Jul 30 j 14:15	23°♌17'35	18°31'46
	972 Aug 29 j 07:47	0°♍		asc. node	973 Aug 03 j 08:04	27°♌35'45	
morning set	972 Sep 01 j 03:13	5°♍10'49			973 Aug 05 j 00:54	0°♌	
				morning set	973 Aug 15 j 18:29	19°♌04'06	
superior conj	972 Sep 11 j 04:34	23°♍29'57	1°21'31		973 Aug 21 j 10:44	0°♍	
minimum elong	972 Sep 11 j 08:57	23°♍49'21	1°21'04				
	972 Sep 14 j 22:06	0°♌		superior conj	973 Aug 24 j 16:27	6°♍06'22	1°39'03
max. Earth dist.	972 Sep 18 j 18:44	6°♌31'41	1.41953 AU	minimum elong	973 Aug 24 j 19:03	6°♍18'30	1°38'53
desc. node	972 Sep 24 j 10:40	15°♌46'11		max. Earth dist.	973 Sep 01 j 00:32	19°♍20'05	1.39997 AU
evening rise	972 Sep 24 j 15:09	16°♌04'05		evening rise	973 Sep 05 j 06:46	26°♍36'29	
	972 Oct 03 j 14:51	0°♍			973 Sep 07 j 07:52	0°♌	
	972 Oct 25 j 14:52	0°♍		desc. node	973 Sep 11 j 07:42	6°♌26'21	
evening max el	972 Oct 27 j 14:49	2°♍07'31	22°26'10		973 Sep 27 j 06:40	0°♍	
retrograde	972 Nov 06 j 06:46	7°♍52'14		evening max el	973 Oct 10 j 04:49	15°♍41'21	23°46'12
evening set	972 Nov 10 j 20:32	6°♍01'31		retrograde	973 Oct 20 j 23:15	22°♍02'01	
asc. node	972 Nov 12 j 10:13	4°♍31'46		evening set	973 Oct 26 j 02:35	19°♍53'41	
	972 Nov 15 j 23:38	30°♍		asc. node	973 Oct 30 j 07:15	15°♍08'16	
inferior conj	972 Nov 16 j 04:56	29°♍41'39	1°16'17	inferior conj	973 Oct 31 j 11:58	13°♍31'01	0°24'41
minimum elong	972 Nov 16 j 03:16	29°♍47'26	1°15'36	minimum elong	973 Oct 31 j 11:22	13°♍33'01	0°24'25
min. Earth dist.	972 Nov 16 j 02:42	29°♍49'26	0.67741 AU	min. Earth dist.	973 Oct 30 j 23:13	14°♍14'24	0.67658 AU
morning rise	972 Nov 21 j 09:51	23°♍30'27		morning rise	973 Nov 05 j 20:08	7°♍24'13	
direct	972 Nov 26 j 00:39	21°♍36'11		direct	973 Nov 09 j 21:00	5°♍52'20	
morning max el	972 Dec 05 j 09:19	27°♍07'41	22°12'09	morning max el	973 Nov 18 j 03:07	10°♍39'47	20°52'07
	972 Dec 08 j 01:10	0°♍			973 Dec 02 j 23:20	0°♍	
desc. node	972 Dec 21 j 09:52	17°♍41'41		desc. node	973 Dec 08 j 06:55	7°♍51'47	
	972 Dec 29 j 16:40	0°♍		morning set	973 Dec 17 j 18:26	22°♍21'55	
morning set	973 Jan 07 j 13:27	13°♍55'52			973 Dec 22 j 14:37	0°♍	
max. Earth dist.	973 Jan 13 j 02:26	23°♍04'04	1.40954 AU	max. Earth dist.	973 Dec 26 j 07:02	5°♍55'50	1.42850 AU
	973 Jan 17 j 03:53	0°♍					
superior conj	973 Jan 20 j 21:25	6°♍33'27	-2°02'03	superior conj	974 Jan 02 j 03:45	17°♍17'48	-2°01'04
minimum elong	973 Jan 20 j 23:06	6°♍40'55	2°01'59	minimum elong	974 Jan 02 j 01:00	17°♍06'13	2°00'59
evening rise	973 Jan 31 j 04:36	25°♍28'21			974 Jan 09 j 12:31	0°♍	
	973 Feb 02 j 14:55	0°♍		evening rise	974 Jan 13 j 23:12	7°♍52'40	
asc. node	973 Feb 08 j 09:34	10°♍20'04		asc. node	974 Jan 26 j 06:35	28°♍44'30	
evening max el	973 Feb 16 j 11:13	21°♍28'11	18°16'44		974 Jan 27 j 03:50	0°♍	
retrograde	973 Feb 23 j 13:32	25°♍00'23		evening max el	974 Jan 30 j 22:26	4°♍32'27	18°07'26
evening set	973 Feb 26 j 02:21	24°♍34'20		retrograde	974 Feb 06 j 12:26	7°♍56'44	
inferior conj	973 Mar 05 j 03:53	19°♍52'22	3°18'49	evening set	974 Feb 09 j 06:09	7°♍21'09	
minimum elong	973 Mar 05 j 07:03	19°♍45'32	3°18'17	inferior conj	974 Feb 15 j 17:38	2°♍18'01	3°43'37
min. Earth dist.	973 Mar 08 j 13:45	16°♍56'59	0.59543 AU	minimum elong	974 Feb 15 j 18:41	2°♍15'23	3°43'33
morning rise	973 Mar 12 j 09:26	14°♍14'32			974 Feb 18 j 01:06	30°♍	
direct	973 Mar 18 j 19:43	12°♍21'51		min. Earth dist.	974 Feb 18 j 18:24	29°♍18'20	0.61660 AU
desc. node	973 Mar 19 j 09:02	12°♍22'41		morning rise	974 Feb 22 j 05:50	26°♍23'58	
morning max el	973 Apr 02 j 03:13	20°♍07'31	27°17'18	direct	974 Mar 01 j 03:19	23°♍58'32	
	973 Apr 10 j 14:22	0°♍		desc. node	974 Mar 06 j 06:05	25°♍10'05	
	973 Apr 28 j 19:20	0°♍			974 Mar 13 j 07:11	0°♍	
morning set	973 May 03 j 03:16	8°♍44'49		morning max el	974 Mar 15 j 06:18	1°♍51'04	27°47'00
asc. node	973 May 07 j 08:53	17°♍46'28			974 Apr 04 j 20:48	0°♍	
				morning set	974 Apr 17 j 07:44	23°♍15'13	
superior conj	973 May 10 j 06:13	24°♍05'51	0°30'10		974 Apr 20 j 13:23	0°♍	
minimum elong	973 May 10 j 04:54	23°♍58'40	0°29'54	max. Earth dist.	974 Apr 23 j 05:14	5°♍42'35	1.32482 AU
max. Earth dist.	973 May 09 j 18:32	23°♍01'44	1.32260 AU	asc. node	974 Apr 24 j 05:55	7°♍56'36	
	973 May 12 j 22:43	0°♍					
evening rise	973 May 17 j 03:19	9°♍02'04		superior conj	974 Apr 24 j 16:41	8°♍55'13	0°04'46
	973 May 28 j 00:07	0°♍		minimum elong	974 Apr 24 j 16:27	8°♍54'00	0°04'43
evening max el	973 Jun 14 j 12:02	23°♍44'45	26°01'29	behind sun begin	974 Apr 24 j 11:33	8°♍27'16	
desc. node	973 Jun 15 j 08:21	24°♍32'01		behind sun end	974 Apr 24 j 21:21	9°♍20'45	
	973 Jun 23 j 16:17	0°♌		evening rise	974 May 01 j 14:47	23°♍55'41	
					974 May 04 j 12:53	0°♍	

	974 May 22 j 21:06	0°☿			975 Apr 27 j 05:35	0°♊	
evening max el	974 May 27 j 04:09	4°☿38'17	24°38'22	evening max el	975 May 08 j 18:25	15°♊10'32	23°03'16
desc. node	974 Jun 02 j 05:22	9°☿20'29		desc. node	975 May 20 j 02:23	21°♊41'37	
retrograde	974 Jun 10 j 02:29	11°☿41'20		retrograde	975 May 22 j 04:18	21°♊51'28	
evening set	974 Jun 15 j 01:36	10°☿45'46		evening set	975 May 25 j 16:01	21°♊24'45	
min. Earth dist.	974 Jun 20 j 15:21	7°☿53'22	0.57029 AU	min. Earth dist.	975 Jun 02 j 03:42	18°♊04'05	0.55594 AU
inferior conj	974 Jun 23 j 11:38	6°☿02'57	-4°41'16	inferior conj	975 Jun 03 j 19:54	17°♊05'39	-3°48'01
minimum elong	974 Jun 23 j 08:00	6°☿08'53	4°40'54	minimum elong	975 Jun 03 j 12:30	17°♊16'26	3°46'16
morning rise	974 Jul 01 j 17:07	1°☿57'04		morning rise	975 Jun 12 j 11:34	13°♊12'14	
direct	974 Jul 04 j 07:55	1°☿38'00		direct	975 Jun 15 j 06:19	12°♊53'51	
morning max el	974 Jul 13 j 13:39	5°☿55'59	19°22'34	morning max el	975 Jun 26 j 02:24	17°♊54'47	20°34'14
asc. node	974 Jul 21 j 05:09	15°☿44'48			975 Jul 05 j 10:32	0°☿	
	974 Jul 29 j 01:27	0°♎		asc. node	975 Jul 08 j 02:14	4°☿33'42	
morning set	974 Jul 30 j 18:30	3°♎23'29		morning set	975 Jul 15 j 00:29	18°☿01'42	
					975 Jul 20 j 19:37	0°♎	
superior conj	974 Aug 07 j 21:21	19°♎34'01	1°46'06	superior conj	975 Jul 22 j 14:26	3°♎39'10	1°44'41
minimum elong	974 Aug 07 j 21:57	19°♎36'56	1°46'05	minimum elong	975 Jul 22 j 13:26	3°♎34'05	1°44'39
	974 Aug 13 j 08:44	0°♏		max. Earth dist.	975 Jul 27 j 10:55	13°♎19'24	1.36106 AU
max. Earth dist.	974 Aug 14 j 04:08	1°♏29'31	1.37966 AU	evening rise	975 Jul 31 j 11:45	20°♎59'12	
evening rise	974 Aug 17 j 22:42	8°♏17'09			975 Aug 05 j 12:09	0°♏	
desc. node	974 Aug 29 j 04:43	26°♏56'31		desc. node	975 Aug 16 j 01:44	17°♏11'29	
	974 Aug 31 j 04:20	0°♐			975 Aug 25 j 01:57	0°♐	
evening max el	974 Sep 22 j 16:43	29°♐17'55	25°03'33	evening max el	975 Sep 05 j 04:24	12°♐55'28	26°10'42
	974 Sep 23 j 10:09	0°♑		retrograde	975 Sep 17 j 19:20	20°♐04'41	
retrograde	974 Oct 04 j 11:38	6°♑07'52		evening set	975 Sep 24 j 03:13	17°♐26'34	
evening set	974 Oct 10 j 05:26	3°♑42'51		min. Earth dist.	975 Sep 28 j 07:51	12°♐57'57	0.66497 AU
	974 Oct 13 j 16:09	30°♑♐		inferior conj	975 Sep 29 j 18:35	11°♐10'19	-1°27'23
min. Earth dist.	974 Oct 14 j 17:42	28°♐38'08	0.67246 AU	minimum elong	975 Sep 29 j 20:51	11°♐03'17	1°26'26
inferior conj	974 Oct 15 j 17:07	27°♐21'19	-0°30'23	asc. node	975 Oct 04 j 01:25	6°♐27'58	
minimum elong	974 Oct 15 j 17:53	27°♐18'49	0°30'03	morning rise	975 Oct 05 j 14:54	5°♐20'05	
asc. node	974 Oct 17 j 04:19	25°♐27'50		direct	975 Oct 08 j 17:24	4°♐25'01	
morning rise	974 Oct 21 j 06:29	21°♐21'28		morning max el	975 Oct 15 j 13:28	8°♐13'21	18°51'15
direct	974 Oct 24 j 19:06	20°♐09'44			975 Oct 31 j 01:13	0°♑	
morning max el	974 Nov 01 j 04:47	24°♐22'30	19°44'15	morning set	975 Nov 06 j 03:51	9°♑37'22	
	974 Nov 05 j 23:55	0°♒		desc. node	975 Nov 12 j 01:00	18°♑53'09	
greatest brilliancy	974 Nov 14 j 16:49	12°♒21'04	-0.7m		975 Nov 19 j 02:49	0°♓	
desc. node	974 Nov 25 j 03:58	28°♒17'10		max. Earth dist.	975 Nov 21 j 11:39	3°♓43'15	1.44988 AU
	974 Nov 26 j 06:37	0°♓					
morning set	974 Nov 26 j 15:03	0°♓32'35		superior conj	975 Nov 22 j 13:18	5°♓24'09	-1°06'01
max. Earth dist.	974 Dec 08 j 19:01	19°♓35'02	1.44246 AU	minimum elong	975 Nov 22 j 05:28	4°♓53'17	1°05'05
				evening rise	975 Dec 07 j 23:39	29°♓59'04	
superior conj	974 Dec 13 j 07:22	26°♓48'46	-1°42'42		975 Dec 07 j 23:53	0°♔	
minimum elong	974 Dec 12 j 23:46	26°♓18'07	1°42'06		975 Dec 27 j 18:46	0°♕	
	974 Dec 15 j 06:35	0°♕		evening max el	975 Dec 28 j 22:16	1°♕14'27	18°45'31
evening rise	974 Dec 26 j 22:49	19°♕25'01		asc. node	975 Dec 31 j 00:40	3°♕08'07	
	975 Jan 02 j 04:52	0°♖		retrograde	976 Jan 04 j 15:30	5°♖00'22	
asc. node	975 Jan 13 j 03:37	16°♖24'53		evening set	976 Jan 07 j 19:35	4°♖03'03	
evening max el	975 Jan 14 j 11:00	17°♖49'58	18°17'20		976 Jan 12 j 04:49	30°♖♔	
retrograde	975 Jan 20 j 22:30	21°♖19'34		inferior conj	976 Jan 13 j 13:14	28°♔22'47	3°30'40
evening set	975 Jan 23 j 21:00	20°♖33'39		minimum elong	976 Jan 13 j 11:08	28°♔29'10	3°30'22
inferior conj	975 Jan 29 j 22:03	15°♖10'54	3°45'30	min. Earth dist.	976 Jan 15 j 08:20	26°♔11'24	0.65179 AU
minimum elong	975 Jan 29 j 21:12	15°♖13'16	3°45'27	morning rise	976 Jan 19 j 02:17	22°♔13'34	
min. Earth dist.	975 Feb 01 j 08:32	12°♖28'17	0.63584 AU	direct	976 Jan 25 j 18:40	19°♔21'19	
morning rise	975 Feb 04 j 20:40	9°♖07'11		morning max el	976 Feb 07 j 23:56	27°♔05'23	26°58'49
direct	975 Feb 11 j 19:26	6°♖21'03		desc. node	976 Feb 08 j 00:11	27°♔06'00	
desc. node	975 Feb 21 j 03:08	10°♖16'44			976 Feb 10 j 17:47	0°♕	
morning max el	975 Feb 25 j 14:14	14°♖14'23	27°39'36		976 Mar 03 j 00:28	0°♖	
	975 Mar 10 j 09:07	0°♗		morning set	976 Mar 14 j 17:23	20°♖56'03	
	975 Mar 28 j 10:23	0°♘		max. Earth dist.	976 Mar 19 j 04:48	29°♖45'56	1.34169 AU
morning set	975 Apr 01 j 05:32	7°♘22'40			976 Mar 19 j 07:35	0°♙	
max. Earth dist.	975 Apr 06 j 10:00	18°♘01'14	1.33105 AU				
				superior conj	976 Mar 23 j 02:28	7°♙47'43	-0°49'35
superior conj	975 Apr 09 j 00:09	23°♙31'42	-0°22'12	minimum elong	976 Mar 23 j 04:54	8°♙00'29	0°49'08
minimum elong	975 Apr 09 j 01:13	23°♙37'30	0°21'58	asc. node	976 Mar 28 j 00:00	18°♙07'20	
asc. node	975 Apr 11 j 02:58	28°♙05'12		evening rise	976 Mar 30 j 12:45	23°♙26'29	
	975 Apr 12 j 00:15	0°♚			976 Apr 02 j 17:42	0°♚	
evening rise	975 Apr 16 j 02:34	8°♚46'17					

evening max el	976 Apr 19 j 14:16	25°♄52'08	21°30'55	evening rise	977 Mar 14 j 19:20	7°♄50'13	
	976 Apr 25 j 01:02	0°♄		asc. node	977 Mar 14 j 21:02	7°♄58'51	
retrograde	976 May 01 j 19:35	1°♄50'07			977 Mar 27 j 00:33	0°♄	
evening set	976 May 04 j 05:36	1°♄36'51		evening max el	977 Apr 01 j 20:49	7°♄06'14	20°11'55
desc. node	976 May 05 j 23:25	1°♄11'48		retrograde	977 Apr 12 j 09:30	12°♄10'39	
	976 May 09 j 02:07	30°♄		evening set	977 Apr 14 j 11:10	11°♄59'45	
inferior conj	976 May 13 j 15:25	27°♄35'56	-2°10'16	desc. node	977 Apr 22 j 20:26	8°♄23'43	
minimum elong	976 May 13 j 09:30	27°♄44'14	2°08'17	inferior conj	977 Apr 23 j 11:37	8°♄01'15	-0°10'58
min. Earth dist.	976 May 13 j 16:17	27°♄34'43	0.54960 AU	minimum elong	977 Apr 23 j 11:07	8°♄02'01	0°10'47
morning rise	976 May 22 j 14:04	23°♄38'04		transit middle	977 Apr 23 j 11:07	8°♄02'01	0°10'47
direct	976 May 25 j 17:17	23°♄16'36		transit begin	977 Apr 23 j 08:09	8°♄06'24	
morning max el	976 Jun 07 j 04:00	29°♄09'48	22°04'05	transit end	977 Apr 23 j 14:04	7°♄57'37	
	976 Jun 08 j 00:54	0°♄		min. Earth dist.	977 Apr 25 j 05:44	6°♄58'53	0.55289 AU
asc. node	976 Jun 23 j 23:17	23°♄51'50		morning rise	977 May 02 j 09:20	3°♄40'38	
	976 Jun 27 j 00:57	0°♄		direct	977 May 06 j 06:16	3°♄07'57	
morning set	976 Jun 28 j 10:10	2°♄51'41		morning max el	977 May 19 j 21:09	9°♄49'40	23°44'41
					977 Jun 03 j 17:54	0°♄	
superior conj	976 Jul 05 j 15:53	18°♄09'41	1°36'33	asc. node	977 Jun 10 j 20:19	13°♄31'32	
minimum elong	976 Jul 05 j 13:53	17°♄59'07	1°36'23	morning set	977 Jun 12 j 21:43	17°♄48'02	
max. Earth dist.	976 Jul 09 j 01:57	25°♄15'43	1.34572 AU		977 Jun 18 j 14:08	0°♄	
	976 Jul 11 j 10:15	0°♄					
evening rise	976 Jul 13 j 17:04	4°♄29'17		superior conj	977 Jun 19 j 22:51	2°♄56'36	1°23'02
	976 Jul 28 j 06:39	0°♄		minimum elong	977 Jun 19 j 20:25	2°♄43'30	1°22'43
desc. node	976 Aug 01 j 22:46	7°♄04'07		max. Earth dist.	977 Jun 22 j 02:34	7°♄33'31	1.33430 AU
evening max el	976 Aug 17 j 16:32	26°♄27'52	27°00'02	evening rise	977 Jun 27 j 10:16	18°♄34'45	
	976 Aug 21 j 19:20	0°♄			977 Jul 03 j 08:42	0°♄	
retrograde	976 Aug 30 j 21:44	3°♄45'34		desc. node	977 Jul 19 j 19:47	26°♄24'31	
evening set	976 Sep 06 j 17:38	1°♄01'05			977 Jul 22 j 12:50	0°♄	
	976 Sep 07 j 21:41	30°♄		evening max el	977 Jul 31 j 03:56	9°♄43'24	27°24'17
min. Earth dist.	976 Sep 10 j 15:19	27°♄09'08	0.65397 AU	retrograde	977 Aug 13 j 18:05	17°♄01'51	
inferior conj	976 Sep 12 j 14:17	24°♄54'24	-2°24'24	evening set	977 Aug 20 j 21:47	14°♄20'48	
minimum elong	976 Sep 12 j 18:01	24°♄43'41	2°23'00	min. Earth dist.	977 Aug 24 j 13:54	11°♄03'21	0.63941 AU
morning rise	976 Sep 18 j 19:06	19°♄16'49		inferior conj	977 Aug 27 j 01:44	8°♄27'45	-3°18'48
asc. node	976 Sep 19 j 22:29	18°♄49'22		minimum elong	977 Aug 27 j 06:33	8°♄15'11	3°17'19
direct	976 Sep 21 j 13:55	18°♄34'34		morning rise	977 Sep 02 j 16:20	3°♄06'13	
morning max el	976 Sep 28 j 03:05	22°♄07'39	18°14'37	direct	977 Sep 05 j 06:02	2°♄33'14	
	976 Oct 04 j 07:17	0°♄		asc. node	977 Sep 06 j 19:32	2°♄45'35	
morning set	976 Oct 16 j 21:11	20°♄08'21		morning max el	977 Sep 11 j 18:55	5°♄59'14	17°55'16
	976 Oct 22 j 22:23	0°♄			977 Sep 27 j 14:06	0°♄	
desc. node	976 Oct 28 j 22:02	9°♄36'17		morning set	977 Sep 28 j 17:35	1°♄58'06	
superior conj	976 Oct 31 j 15:24	13°♄55'36	-0°18'02	superior conj	977 Oct 11 j 10:28	23°♄19'58	0°28'56
minimum elong	976 Oct 31 j 13:04	13°♄46'23	0°17'42	minimum elong	977 Oct 11 j 13:34	23°♄32'36	0°28'31
max. Earth dist.	976 Nov 03 j 06:23	18°♄04'06	1.45002 AU	desc. node	977 Oct 15 j 19:04	0°♄22'56	
	976 Nov 10 j 21:12	0°♄			977 Oct 15 j 13:21	0°♄	
evening rise	976 Nov 17 j 01:22	9°♄37'49		max. Earth dist.	977 Oct 17 j 00:22	2°♄19'57	1.44295 AU
greatest brilliancy	976 Nov 28 j 22:54	28°♄02'55	-0.7m	evening rise	977 Oct 27 j 11:18	18°♄41'36	
	976 Nov 30 j 05:53	0°♄			977 Nov 03 j 21:12	0°♄	
evening max el	976 Dec 11 j 06:09	14°♄42'34	19°30'31	evening max el	977 Nov 24 j 08:57	28°♄11'36	20°30'12
asc. node	976 Dec 16 j 21:44	18°♄39'44			977 Nov 26 j 06:35	0°♄	
retrograde	976 Dec 18 j 12:05	18°♄53'53		retrograde	977 Dec 02 j 09:48	2°♄55'55	
evening set	976 Dec 21 j 23:15	17°♄43'40		asc. node	977 Dec 03 j 18:46	2°♄45'16	
inferior conj	976 Dec 27 j 11:57	11°♄48'20	3°03'36	evening set	977 Dec 06 j 05:50	1°♄31'02	
minimum elong	976 Dec 27 j 09:17	11°♄56'59	3°02'59		977 Dec 07 j 22:34	30°♄	
min. Earth dist.	976 Dec 28 j 16:29	10°♄15'23	0.66386 AU	inferior conj	977 Dec 11 j 15:34	25°♄23'23	2°27'19
morning rise	977 Jan 01 j 19:05	5°♄36'10		minimum elong	977 Dec 11 j 12:56	25°♄32'20	2°26'29
direct	977 Jan 07 j 23:56	2°♄51'04		min. Earth dist.	977 Dec 12 j 07:03	24°♄30'49	0.67202 AU
morning max el	977 Jan 20 j 09:08	10°♄12'01	25°52'24	morning rise	977 Dec 16 j 19:51	19°♄10'14	
desc. node	977 Jan 24 j 21:13	15°♄08'39		direct	977 Dec 22 j 10:21	16°♄41'37	
	977 Feb 05 j 02:24	0°♄		morning max el	978 Jan 02 j 17:27	23°♄25'43	24°30'03
	977 Feb 23 j 14:10	0°♄			978 Jan 08 j 13:29	0°♄	
morning set	977 Feb 25 j 15:07	3°♄42'50		desc. node	978 Jan 11 j 18:15	4°♄03'06	
max. Earth dist.	977 Mar 01 j 11:42	10°♄58'13	1.35693 AU		978 Jan 29 j 11:51	0°♄	
				morning set	978 Feb 07 j 17:09	15°♄27'07	
superior conj	977 Mar 06 j 21:09	21°♄36'13	-1°15'59	max. Earth dist.	978 Feb 11 j 09:15	22°♄00'11	1.37611 AU
minimum elong	977 Mar 07 j 00:44	21°♄54'21	1°15'25		978 Feb 15 j 16:44	0°♄	
	977 Mar 10 j 23:50	0°♄					

superior conj	978 Feb 18 j 04:53	4° H 47'44	-1°39'16	evening rise	979 Feb 10 j 11:50	5° H 19'53	
minimum elong	978 Feb 18 j 08:58	5° H 07'26	1°38'48	asc. node	979 Feb 16 j 15:05	16° H 48'37	
evening rise	978 Feb 26 j 19:59	21° H 50'29			979 Feb 25 j 08:50	0° Y	
asc. node	978 Mar 01 j 18:04	27° H 34'37		evening max el	979 Feb 26 j 17:31	1° Y 25'39	18°30'55
	978 Mar 03 j 00:23	0° Y		retrograde	979 Mar 06 j 08:14	5° Y 09'56	
evening max el	978 Mar 15 j 14:35	18° Y 58'53	19°11'26	evening set	979 Mar 08 j 17:45	4° Y 48'53	
retrograde	978 Mar 24 j 11:32	23° Y 15'57		inferior conj	979 Mar 16 j 05:01	0° Y 18'50	2°51'15
evening set	978 Mar 26 j 15:40	23° Y 01'38		minimum elong	979 Mar 16 j 09:01	0° Y 10'54	2°50'20
inferior conj	978 Apr 03 j 21:57	18° Y 50'43	1°36'09		979 Mar 16 j 14:29	30° R H	
minimum elong	978 Apr 04 j 01:29	18° Y 44'44	1°35'02	min. Earth dist.	979 Mar 19 j 15:11	27° H 37'21	0.58328 AU
min. Earth dist.	978 Apr 06 j 20:44	16° Y 51'40	0.56496 AU	morning rise	979 Mar 23 j 21:27	24° H 54'03	
desc. node	978 Apr 09 j 17:25	15° Y 08'49		desc. node	979 Mar 27 j 14:27	23° H 36'16	
morning rise	978 Apr 12 j 08:23	13° Y 56'53		direct	979 Mar 29 j 20:16	23° H 23'17	
direct	978 Apr 17 j 06:21	13° Y 00'52			979 Apr 12 j 02:59	0° Y	
morning max el	978 May 01 j 11:36	20° Y 17'50	25°23'18	morning max el	979 Apr 13 j 05:14	1° Y 02'06	26°44'16
	978 May 09 j 18:48	0° B			979 May 03 j 19:20	0° B	
	978 May 27 j 01:52	0° II		morning set	979 May 12 j 19:57	17° B 37'38	
morning set	978 May 28 j 09:33	2° II 45'37		asc. node	979 May 15 j 14:22	23° B 31'22	
asc. node	978 May 28 j 17:20	3° II 26'46			979 May 18 j 13:39	0° II	
superior conj	978 Jun 04 j 09:08	17° II 52'56	1°05'11	superior conj	979 May 19 j 20:48	2° II 51'13	0°43'49
minimum elong	978 Jun 04 j 06:48	17° II 40'11	1°04'47	minimum elong	979 May 19 j 19:01	2° II 41'22	0°43'27
max. Earth dist.	978 Jun 05 j 10:39	20° II 12'13	1.32676 AU	max. Earth dist.	979 May 19 j 22:37	3° II 01'13	1.32297 AU
	978 Jun 10 j 00:16	0° D		evening rise	979 May 26 j 18:54	17° II 50'00	
evening rise	978 Jun 11 j 11:49	3° D 05'01			979 Jun 01 j 20:29	0° D	
	978 Jun 26 j 03:54	0° Q			979 Jun 21 j 07:54	0° Q	
desc. node	978 Jul 06 j 16:47	14° Q 59'20		desc. node	979 Jun 23 j 13:47	2° Q 28'36	
evening max el	978 Jul 13 j 12:11	22° Q 28'34	27°17'48	evening max el	979 Jun 25 j 14:35	4° Q 30'48	26°38'16
retrograde	978 Jul 27 j 07:47	29° Q 44'52		retrograde	979 Jul 09 j 14:00	11° Q 44'54	
evening set	978 Aug 03 j 11:59	27° Q 19'41		evening set	979 Jul 16 j 07:38	9° Q 48'58	
min. Earth dist.	978 Aug 07 j 02:05	24° Q 29'28	0.62156 AU	min. Earth dist.	979 Jul 20 j 04:01	7° Q 11'55	0.60137 AU
inferior conj	978 Aug 10 j 01:57	21° Q 43'23	-4°06'27	inferior conj	979 Jul 23 j 11:26	4° Q 31'28	-4°40'46
minimum elong	978 Aug 10 j 06:54	21° Q 31'53	4°05'23	minimum elong	979 Jul 23 j 14:44	4° Q 24'45	4°40'25
morning rise	978 Aug 17 j 03:15	16° Q 41'26		morning rise	979 Jul 30 j 23:49	29° D 51'46	
direct	978 Aug 19 j 14:25	16° Q 14'48			979 Jul 30 j 13:36	30° R D	
asc. node	978 Aug 24 j 16:33	18° Q 11'31		direct	979 Aug 02 j 10:47	29° D 29'19	
morning max el	978 Aug 26 j 10:09	19° Q 41'55	17°54'07		979 Aug 05 j 05:59	0° Q	
	978 Sep 03 j 00:21	0° M		morning max el	979 Aug 09 j 21:41	3° Q 07'02	18°12'11
morning set	978 Sep 11 j 10:58	14° M 48'18		asc. node	979 Aug 11 j 13:36	4° Q 52'29	
	978 Sep 19 j 23:50	0° L		morning set	979 Aug 25 j 19:32	28° Q 21'46	
					979 Aug 26 j 16:21	0° M	
superior conj	978 Sep 22 j 08:31	4° L 04'47	1°05'55	superior conj	979 Sep 04 j 08:06	16° M 04'51	1°30'21
minimum elong	978 Sep 22 j 13:19	4° L 25'18	1°05'20	minimum elong	979 Sep 04 j 11:50	16° M 21'41	1°30'01
max. Earth dist.	978 Sep 29 j 14:35	16° L 12'44	1.42953 AU	max. Earth dist.	979 Sep 11 j 22:54	29° M 25'05	1.41148 AU
desc. node	978 Oct 02 j 16:07	21° L 10'08			979 Sep 12 j 07:09	0° L	
evening rise	978 Oct 06 j 21:13	27° L 50'21		evening rise	979 Sep 16 j 23:14	7° L 44'35	
	978 Oct 08 j 06:28	0° M		desc. node	979 Sep 19 j 13:09	11° L 53'52	
	978 Oct 28 j 16:30	0° J			979 Oct 01 j 09:54	0° M	
evening max el	978 Nov 07 j 06:01	11° J 41'24	21°41'26	evening max el	979 Oct 20 j 21:56	25° M 12'47	23°00'01
retrograde	978 Nov 16 j 06:43	17° J 03'42			979 Oct 26 j 20:41	0° J	
evening set	978 Nov 20 j 13:32	15° J 22'35		retrograde	979 Oct 31 j 01:20	1° J 13'57	
asc. node	978 Nov 20 j 15:46	15° J 18'04			979 Nov 03 j 20:57	30° R M	
inferior conj	978 Nov 25 j 21:59	9° J 05'57	1°43'54	evening set	979 Nov 04 j 20:41	29° M 15'36	
minimum elong	978 Nov 25 j 19:51	9° J 13'21	1°43'05	asc. node	979 Nov 07 j 12:48	26° M 28'08	
min. Earth dist.	978 Nov 26 j 01:51	8° J 52'34	0.67647 AU	inferior conj	979 Nov 10 j 05:19	22° M 53'46	0°54'54
morning rise	978 Dec 01 j 02:01	2° J 53'30		minimum elong	979 Nov 10 j 04:04	22° M 58'04	0°54'22
direct	978 Dec 06 j 01:16	0° J 46'26		min. Earth dist.	979 Nov 09 j 22:31	23° M 17'13	0.67744 AU
morning max el	978 Dec 16 j 02:57	6° J 45'00	23°01'51	morning rise	979 Nov 15 j 11:23	16° M 44'07	
desc. node	978 Dec 29 j 15:19	23° J 34'49		direct	979 Nov 19 j 19:57	14° M 59'46	
	979 Jan 03 j 02:58	0° Z		morning max el	979 Nov 28 j 16:57	20° M 12'05	21°36'50
morning set	979 Jan 19 j 17:16	25° Z 53'27			979 Dec 06 j 21:28	0° J	
	979 Jan 22 j 04:00	0° \approx		desc. node	979 Dec 16 j 12:23	13° J 33'25	
max. Earth dist.	979 Jan 24 j 04:36	3° \approx 27'52	1.39740 AU		979 Dec 27 j 08:46	0° Z	
superior conj	979 Jan 31 j 21:29	17° \approx 11'31	-1°56'28	morning set	979 Dec 30 j 12:21	4° Z 57'33	
minimum elong	979 Feb 01 j 00:39	17° \approx 26'04	1°56'16	max. Earth dist.	980 Jan 06 j 04:25	15° Z 46'00	1.41800 AU
	979 Feb 07 j 17:01	0° H					

superior conj	980 Jan 13 j 17:51	28° ♄ 35'51	-2°03'29	max. Earth dist.	980 Dec 18 j 11:45	28° ♄ 57'42	1.43514 AU
minimum elong	980 Jan 13 j 17:55	28° ♄ 36'06	2°03'30		980 Dec 19 j 03:14	0° ♄	
	980 Jan 14 j 13:08	0° ♄					
evening rise	980 Jan 24 j 15:26	18° ♄ 10'52		superior conj	980 Dec 24 j 12:56	8° ♄ 49'06	-1°55'36
	980 Jan 31 j 04:28	0° ♄		minimum elong	980 Dec 24 j 07:55	8° ♄ 28'25	1°55'20
asc. node	980 Feb 03 j 12:08	5° ♄ 34'09			981 Jan 05 j 23:18	0° ♄	
evening max el	980 Feb 10 j 02:39	14° ♄ 19'18	18°10'26	evening rise	981 Jan 06 j 02:28	0° ♄ 13'49	
retrograde	980 Feb 16 j 22:38	17° ♄ 46'38		asc. node	981 Jan 20 j 09:11	23° ♄ 41'33	
evening set	980 Feb 19 j 13:26	17° ♄ 16'49		evening max el	981 Jan 23 j 14:51	27° ♄ 30'25	18°09'25
inferior conj	980 Feb 26 j 08:33	12° ♄ 25'57	3°32'36		981 Jan 26 j 19:15	0° ♄	
minimum elong	980 Feb 26 j 10:51	12° ♄ 20'40	3°32'19	retrograde	981 Jan 30 j 02:39	0° ♄ 55'14	
min. Earth dist.	980 Feb 29 j 15:38	9° ♄ 25'25	0.60443 AU	evening set	981 Feb 01 j 22:22	0° ♄ 15'23	
morning rise	980 Mar 04 j 06:17	6° ♄ 39'55			981 Feb 02 j 10:40	30° ♄	
direct	980 Mar 10 j 22:33	4° ♄ 31'59		inferior conj	981 Feb 08 j 05:02	25° ♄ 04'01	3°46'44
desc. node	980 Mar 13 j 11:30	4° ♄ 49'33		minimum elong	981 Feb 08 j 05:13	25° ♄ 03'32	3°46'45
morning max el	980 Mar 25 j 04:53	12° ♄ 22'25	27°34'34	min. Earth dist.	981 Feb 11 j 00:14	22° ♄ 09'07	0.62516 AU
	980 Apr 08 j 03:07	0° ♄		morning rise	981 Feb 14 j 10:58	19° ♄ 05'21	
	980 Apr 25 j 00:16	0° ♄		direct	981 Feb 21 j 10:18	16° ♄ 28'58	
morning set	980 Apr 26 j 03:10	2° ♄ 18'04		desc. node	981 Feb 28 j 08:34	18° ♄ 40'23	
asc. node	980 May 01 j 11:26	13° ♄ 40'58		morning max el	981 Mar 07 j 10:06	24° ♄ 22'59	27°48'11
max. Earth dist.	980 May 02 j 10:43	15° ♄ 47'59	1.32298 AU		981 Mar 12 j 12:29	0° ♄	
					981 Apr 01 j 11:16	0° ♄	
superior conj	980 May 03 j 08:13	17° ♄ 45'46	0°19'39	morning set	981 Apr 10 j 05:04	16° ♄ 39'16	
minimum elong	980 May 03 j 07:20	17° ♄ 40'56	0°19'28	max. Earth dist.	981 Apr 15 j 19:06	28° ♄ 19'21	1.32692 AU
	980 May 08 j 22:52	0° ♄			981 Apr 16 j 13:50	0° ♄	
evening rise	980 May 10 j 05:20	2° ♄ 42'26					
	980 May 24 j 22:37	0° ♄		superior conj	981 Apr 17 j 17:38	2° ♄ 30'15	-0°06'33
evening max el	980 Jun 06 j 10:02	15° ♄ 47'08	25°28'37	minimum elong	981 Apr 17 j 17:56	2° ♄ 31'56	0°06'29
desc. node	980 Jun 09 j 10:46	18° ♄ 25'31		behind sun begin	981 Apr 17 j 13:11	2° ♄ 06'08	
retrograde	980 Jun 20 j 10:52	22° ♄ 56'44		behind sun end	981 Apr 17 j 22:42	2° ♄ 57'44	
evening set	980 Jun 26 j 04:36	21° ♄ 39'28		asc. node	981 Apr 18 j 08:30	3° ♄ 50'53	
min. Earth dist.	980 Jun 30 j 22:07	18° ♄ 57'10	0.58092 AU	evening rise	981 Apr 24 j 17:08	17° ♄ 35'10	
inferior conj	980 Jul 04 j 02:43	16° ♄ 42'52	-4°51'20		981 Apr 30 j 20:29	0° ♄	
minimum elong	980 Jul 04 j 02:02	16° ♄ 44'03	4°51'18	evening max el	981 May 19 j 00:42	26° ♄ 28'26	23°58'36
morning rise	980 Jul 12 j 02:02	12° ♄ 25'29			981 May 23 j 06:26	0° ♄	
direct	980 Jul 14 j 14:50	12° ♄ 05'38		desc. node	981 May 27 j 07:47	2° ♄ 15'28	
morning max el	980 Jul 23 j 02:23	16° ♄ 05'31	18°50'43	retrograde	981 Jun 01 j 19:41	3° ♄ 24'04	
asc. node	980 Jul 28 j 10:40	22° ♄ 33'30		evening set	981 Jun 06 j 03:18	2° ♄ 42'53	
	980 Aug 02 j 00:36	0° ♄			981 Jun 11 j 22:03	30° ♄	
morning set	980 Aug 08 j 14:53	12° ♄ 27'03		min. Earth dist.	981 Jun 12 j 11:38	29° ♄ 39'48	0.56334 AU
				inferior conj	981 Jun 14 j 21:47	28° ♄ 10'25	-4°24'36
superior conj	980 Aug 17 j 03:53	29° ♄ 05'02	1°43'11	minimum elong	981 Jun 14 j 16:08	28° ♄ 19'10	4°23'42
minimum elong	980 Aug 17 j 05:37	29° ♄ 13'16	1°43'06	morning rise	981 Jun 23 j 07:41	24° ♄ 10'59	
	980 Aug 17 j 15:28	0° ♄		direct	981 Jun 25 j 23:55	23° ♄ 52'24	
max. Earth dist.	980 Aug 24 j 02:38	11° ♄ 53'18	1.39129 AU	morning max el	981 Jul 05 j 21:22	28° ♄ 27'39	19°50'33
evening rise	980 Aug 28 j 01:21	18° ♄ 46'33			981 Jul 07 j 10:20	0° ♄	
	980 Sep 03 j 20:16	0° ♄		asc. node	981 Jul 15 j 07:45	11° ♄ 00'57	
desc. node	980 Sep 05 j 10:10	2° ♄ 30'23		morning set	981 Jul 23 j 17:46	26° ♄ 55'36	
	980 Sep 24 j 16:55	0° ♄			981 Jul 25 j 06:10	0° ♄	
evening max el	980 Oct 02 j 10:43	8° ♄ 47'45	24°19'53				
retrograde	980 Oct 13 j 16:18	15° ♄ 22'34		superior conj	981 Jul 31 j 14:29	12° ♄ 50'16	1°46'25
evening set	980 Oct 19 j 01:36	13° ♄ 07'05		minimum elong	981 Jul 31 j 14:20	12° ♄ 49'33	1°46'25
inferior conj	980 Oct 24 j 11:48	6° ♄ 44'12	0°01'39	max. Earth dist.	981 Aug 06 j 06:57	23° ♄ 51'58	1.37145 AU
minimum elong	980 Oct 24 j 11:45	6° ♄ 44'20	0°01'38		981 Aug 09 j 14:36	0° ♄	
transit middle	980 Oct 24 j 11:45	6° ♄ 44'20	0°01'38	evening rise	981 Aug 10 j 02:53	0° ♄ 55'30	
transit begin	980 Oct 24 j 09:02	6° ♄ 53'30		desc. node	981 Aug 23 j 07:10	22° ♄ 55'14	
transit end	980 Oct 24 j 14:29	6° ♄ 35'11			981 Aug 28 j 00:30	0° ♄	
min. Earth dist.	980 Oct 23 j 18:36	7° ♄ 42'00	0.67520 AU	evening max el	981 Sep 14 j 22:37	22° ♄ 26'49	25°33'52
asc. node	980 Oct 24 j 09:53	6° ♄ 50'37		retrograde	981 Sep 27 j 02:44	29° ♄ 25'48	
morning rise	980 Oct 29 j 21:56	0° ♄ 39'46		evening set	981 Oct 03 j 02:33	26° ♄ 54'58	
	980 Oct 30 j 23:11	30° ♄		min. Earth dist.	981 Oct 07 j 11:38	22° ♄ 05'13	0.66972 AU
direct	980 Nov 02 j 17:18	29° ♄ 16'50		inferior conj	981 Oct 08 j 15:39	20° ♄ 35'16	-0°54'23
	980 Nov 05 j 15:07	0° ♄		minimum elong	981 Oct 08 j 17:03	20° ♄ 30'48	0°53'47
morning max el	980 Nov 10 j 14:00	3° ♄ 48'42	20°21'26	asc. node	981 Oct 11 j 06:57	17° ♄ 21'55	
	980 Nov 29 j 20:26	0° ♄		morning rise	981 Oct 14 j 07:45	14° ♄ 38'55	
desc. node	980 Dec 02 j 09:26	3° ♄ 50'42		direct	981 Oct 17 j 15:52	13° ♄ 34'32	
morning set	980 Dec 08 j 10:38	13° ♄ 07'39		morning max el	981 Oct 24 j 18:47	17° ♄ 35'36	19°19'42

	981 Nov 03 j 08:47	0°♄			982 Oct 06 j 15:04	0°♄	
morning set	981 Nov 17 j 11:37	21°♄34'55		morning max el	982 Oct 08 j 05:51	1°♄28'46	18°33'39
desc. node	981 Nov 19 j 06:29	24°♄21'34			982 Oct 27 j 17:05	0°♄	
	981 Nov 22 j 21:20	0°♄		morning set	982 Oct 28 j 12:09	1°♄16'18	
max. Earth dist.	981 Dec 01 j 02:18	12°♄52'45	1.44659 AU	desc. node	982 Nov 06 j 03:30	15°♄01'17	
superior conj	981 Dec 04 j 06:03	17°♄53'05	-1°29'11	superior conj	982 Nov 13 j 07:34	26°♄19'03	-0°46'20
minimum elong	981 Dec 03 j 21:31	17°♄19'06	1°28'20	minimum elong	982 Nov 13 j 01:37	25°♄55'42	0°45'34
	981 Dec 11 j 18:48	0°♄		max. Earth dist.	982 Nov 13 j 20:47	27°♄10'58	1.45095 AU
evening rise	981 Dec 18 j 16:44	11°♄21'58			982 Nov 15 j 15:49	0°♄	
	981 Dec 30 j 01:28	0°♄		evening rise	982 Nov 29 j 07:29	21°♄32'05	
evening max el	982 Jan 07 j 03:14	10°♄51'59	18°27'08		982 Dec 04 j 15:24	0°♄	
asc. node	982 Jan 07 j 06:14	10°♄59'35		greatest brilliancy	982 Dec 08 j 04:52	5°♄37'40	-0.8m
retrograde	982 Jan 13 j 16:02	14°♄26'51		evening max el	982 Dec 21 j 13:16	24°♄18'32	19°02'36
evening set	982 Jan 16 j 16:53	13°♄36'04		asc. node	982 Dec 25 j 03:16	27°♄14'31	
inferior conj	982 Jan 22 j 14:27	8°♄05'34	3°40'52	retrograde	982 Dec 28 j 10:59	28°♄14'10	
minimum elong	982 Jan 22 j 12:59	8°♄09'49	3°40'44	evening set	982 Dec 31 j 17:57	27°♄11'24	
min. Earth dist.	982 Jan 24 j 18:20	5°♄35'10	0.64320 AU	inferior conj	983 Jan 06 j 09:11	21°♄24'06	3°20'29
morning rise	982 Jan 28 j 08:34	1°♄59'25		minimum elong	983 Jan 06 j 06:47	21°♄31'42	3°20'01
	982 Jan 31 j 10:22	30°♄		min. Earth dist.	983 Jan 07 j 21:48	19°♄28'54	0.65746 AU
direct	982 Feb 04 j 05:31	29°♄08'59		morning rise	983 Jan 11 j 19:20	15°♄13'26	
	982 Feb 08 j 06:51	0°♄		direct	983 Jan 18 j 07:12	12°♄23'12	
desc. node	982 Feb 15 j 05:38	4°♄34'46		morning max el	983 Jan 31 j 04:47	19°♄58'43	26°33'11
morning max el	982 Feb 17 j 18:55	6°♄58'51	27°25'50	desc. node	983 Feb 02 j 02:41	21°♄58'43	
	982 Mar 07 j 12:04	0°♄			983 Feb 08 j 19:27	0°♄	
morning set	982 Mar 24 j 23:00	0°♄33'00			983 Feb 28 j 13:54	0°♄	
	982 Mar 24 j 16:17	0°♄		morning set	983 Mar 08 j 05:28	13°♄48'42	
max. Earth dist.	982 Mar 29 j 20:00	10°♄24'02	1.33507 AU	max. Earth dist.	983 Mar 12 j 10:10	21°♄55'57	1.34766 AU
					983 Mar 16 j 10:05	0°♄	
superior conj	982 Apr 01 j 23:09	16°♄58'39	-0°33'50	superior conj	983 Mar 16 j 22:35	1°♄04'17	-1°01'01
minimum elong	982 Apr 02 j 00:49	17°♄07'29	0°33'30	minimum elong	983 Mar 17 j 01:33	1°♄19'39	1°00'29
asc. node	982 Apr 05 j 05:32	23°♄57'11		asc. node	983 Mar 23 j 02:34	13°♄55'49	
	982 Apr 08 j 01:32	0°♄		evening rise	983 Mar 24 j 13:24	16°♄56'47	
evening rise	982 Apr 09 j 04:27	2°♄22'03			983 Mar 31 j 04:12	0°♄	
	982 Apr 24 j 16:18	0°♄		evening max el	983 Apr 12 j 16:26	17°♄54'17	20°55'12
evening max el	982 Apr 30 j 16:31	7°♄00'47	22°22'51	retrograde	983 Apr 24 j 05:12	23°♄30'20	
retrograde	982 May 13 j 15:49	13°♄25'05		evening set	983 Apr 26 j 09:49	23°♄18'57	
desc. node	982 May 14 j 04:49	13°♄24'26		desc. node	983 May 01 j 01:51	21°♄48'03	
evening set	982 May 16 j 14:51	13°♄05'47		inferior conj	983 May 05 j 17:12	19°♄20'46	-1°20'15
min. Earth dist.	982 May 24 j 23:33	9°♄29'38	0.55211 AU	minimum elong	983 May 05 j 13:24	19°♄26'09	1°18'53
inferior conj	982 May 25 j 23:13	8°♄56'12	-3°11'10	min. Earth dist.	983 May 06 j 12:13	18°♄53'45	0.54978 AU
minimum elong	982 May 25 j 15:43	9°♄06'50	3°09'01	morning rise	983 May 14 j 16:45	15°♄15'37	
morning rise	982 Jun 03 j 18:29	5°♄03'25		direct	983 May 18 j 02:05	14°♄50'51	
direct	982 Jun 06 j 16:19	4°♄44'12		morning max el	983 May 31 j 02:36	21°♄05'20	22°46'21
morning max el	982 Jun 18 j 05:03	10°♄06'34	21°10'40		983 Jun 07 j 16:46	0°♄	
asc. node	982 Jul 02 j 04:48	0°♄03'14		asc. node	983 Jun 19 j 01:50	19°♄31'44	
	982 Jul 02 j 04:06	0°♄		morning set	983 Jun 22 j 12:15	26°♄33'25	
morning set	982 Jul 08 j 01:34	11°♄39'37			983 Jun 24 j 03:25	0°♄	
superior conj	982 Jul 15 j 11:28	27°♄07'08	1°41'58	superior conj	983 Jun 29 j 15:35	11°♄45'58	1°31'24
minimum elong	982 Jul 15 j 09:58	26°♄59'24	1°41'53	minimum elong	983 Jun 29 j 13:20	11°♄33'59	1°31'11
	982 Jul 16 j 21:06	0°♄		max. Earth dist.	983 Jul 02 j 12:24	17°♄48'27	1.34031 AU
max. Earth dist.	982 Jul 19 j 17:12	5°♄43'33	1.35405 AU	evening rise	983 Jul 07 j 10:12	27°♄45'48	
evening rise	982 Jul 23 j 23:23	13°♄59'21			983 Jul 08 j 13:41	0°♄	
	982 Aug 01 j 22:51	0°♄			983 Jul 26 j 04:17	0°♄	
desc. node	982 Aug 10 j 04:10	13°♄01'55		desc. node	983 Jul 28 j 01:10	2°♄42'22	
	982 Aug 22 j 19:21	0°♄		evening max el	983 Aug 10 j 22:27	19°♄29'53	27°13'43
evening max el	982 Aug 28 j 10:38	6°♄03'52	26°34'20	retrograde	983 Aug 24 j 07:50	26°♄48'49	
retrograde	982 Sep 10 j 08:00	13°♄17'03		evening set	983 Aug 31 j 07:55	24°♄04'01	
evening set	982 Sep 16 j 21:29	10°♄35'17		min. Earth dist.	983 Sep 04 j 02:50	20°♄27'38	0.64823 AU
min. Earth dist.	982 Sep 20 j 23:07	6°♄22'28	0.66078 AU	inferior conj	983 Sep 06 j 07:23	18°♄02'48	-2°47'58
inferior conj	982 Sep 22 j 14:55	4°♄22'54	-1°51'38	minimum elong	983 Sep 06 j 11:39	17°♄51'01	2°46'29
minimum elong	982 Sep 22 j 17:50	4°♄14'09	1°50'28	morning rise	983 Sep 12 j 16:16	12°♄31'57	
	982 Sep 26 j 16:30	30°♄		direct	983 Sep 15 j 08:36	11°♄54'05	
asc. node	982 Sep 28 j 04:00	28°♄53'28		asc. node	983 Sep 15 j 01:02	11°♄54'37	
morning rise	982 Sep 28 j 14:40	28°♄37'43		morning max el	983 Sep 21 j 20:47	15°♄22'58	18°04'17
direct	982 Oct 01 j 13:43	27°♄48'26					

	983 Oct 02 j 06:56	0°♎		minimum elong	984 Aug 19 j 19:27	1°♎16'37	3°38'50
morning set	983 Oct 09 j 17:32	12°♎22'34			984 Aug 21 j 02:59	30°♎♎	
	983 Oct 20 j 10:16	0°♎		morning rise	984 Aug 26 j 09:31	26°♎15'45	
				direct	984 Aug 28 j 21:41	25°♎45'57	
superior conj	983 Oct 23 j 14:47	5°♎07'34	0°02'43	asc. node	984 Aug 31 j 22:04	26°♎29'56	
minimum elong	983 Oct 23 j 15:06	5°♎08'51	0°02'40	morning max el	984 Sep 04 j 12:45	29°♎11'40	17°52'32
behind sun begin	983 Oct 23 j 04:34	4°♎26'41			984 Sep 05 j 07:23	0°♎	
behind sun end	983 Oct 24 j 01:39	5°♎50'57		morning set	984 Sep 20 j 23:36	24°♎39'54	
desc. node	983 Oct 24 j 00:30	5°♎46'24			984 Sep 24 j 00:44	0°♎	
max. Earth dist.	983 Oct 27 j 15:34	11°♎32'03	1.44786 AU				
	983 Nov 08 j 11:29	0°♎		superior conj	984 Oct 02 j 20:56	15°♎05'21	0°46'06
evening rise	983 Nov 09 j 01:02	0°♎52'24		minimum elong	984 Oct 03 j 01:13	15°♎23'08	0°45'32
greatest brilliancy	983 Nov 22 j 15:53	21°♎39'18	-0.7m	max. Earth dist.	984 Oct 09 j 07:41	25°♎38'12	1.43784 AU
	983 Nov 28 j 11:05	0°♎		desc. node	984 Oct 09 j 21:32	26°♎33'47	
evening max el	983 Dec 04 j 19:01	7°♎46'57	19°54'10		984 Oct 12 j 01:15	0°♎	
retrograde	983 Dec 12 j 08:27	12°♎11'58		evening rise	984 Oct 18 j 08:39	9°♎52'25	
asc. node	983 Dec 12 j 00:17	12°♎11'19			984 Oct 31 j 16:58	0°♎	
evening set	983 Dec 15 j 23:05	10°♎55'45		evening max el	984 Nov 16 j 19:23	21°♎16'40	20°59'20
inferior conj	983 Dec 21 j 10:17	4°♎54'33	2°49'14	retrograde	984 Nov 25 j 06:07	26°♎17'07	
minimum elong	983 Dec 21 j 07:35	5°♎03'35	2°48'29	asc. node	984 Nov 27 j 21:19	25°♎38'10	
min. Earth dist.	983 Dec 22 j 09:03	3°♎38'48	0.66778 AU	evening set	984 Nov 29 j 06:22	24°♎45'45	
	983 Dec 25 j 08:20	30°♎♎		inferior conj	984 Dec 04 j 15:23	18°♎33'53	2°09'43
morning rise	983 Dec 26 j 15:51	28°♎41'31		minimum elong	984 Dec 04 j 12:54	18°♎42'24	2°08'51
direct	984 Jan 01 j 14:40	26°♎02'42		min. Earth dist.	984 Dec 05 j 01:50	17°♎57'58	0.67431 AU
	984 Jan 10 j 03:08	0°♎		morning rise	984 Dec 09 j 19:14	12°♎20'33	
morning max el	984 Jan 13 j 13:44	3°♎10'07	25°18'42	direct	984 Dec 15 j 03:17	10°♎00'31	
desc. node	984 Jan 19 j 23:43	10°♎25'54		morning max el	984 Dec 25 j 22:09	16°♎26'32	23°52'38
	984 Feb 03 j 01:06	0°♎		desc. node	985 Jan 05 j 20:45	29°♎38'15	
morning set	984 Feb 18 j 19:36	26°♎11'25			985 Jan 06 j 03:12	0°♎	
	984 Feb 20 j 21:43	0°♎			985 Jan 26 j 01:24	0°♎	
max. Earth dist.	984 Feb 22 j 12:36	3°♎00'47	1.36467 AU	morning set	985 Jan 30 j 11:24	7°♎25'08	
				max. Earth dist.	985 Feb 03 j 07:46	14°♎07'49	1.38507 AU
superior conj	984 Feb 28 j 13:01	14°♎38'10	-1°26'24				
minimum elong	984 Feb 28 j 16:57	14°♎57'37	1°25'51	superior conj	985 Feb 10 j 14:57	27°♎31'25	-1°47'31
	984 Mar 07 j 03:38	0°♎		minimum elong	985 Feb 10 j 18:52	27°♎49'56	1°47'10
evening rise	984 Mar 07 j 17:47	1°♎11'32			985 Feb 11 j 22:12	0°♎	
asc. node	984 Mar 08 j 23:35	3°♎41'24		evening rise	985 Feb 19 j 15:05	14°♎59'53	
evening max el	984 Mar 25 j 03:49	29°♎24'43	19°43'46	asc. node	985 Feb 23 j 20:37	23°♎08'57	
	984 Mar 25 j 18:56	0°♎			985 Feb 27 j 15:51	0°♎	
retrograde	984 Apr 03 j 23:11	4°♎07'56		evening max el	985 Mar 08 j 01:57	11°♎33'32	18°51'43
evening set	984 Apr 06 j 00:52	3°♎56'16		retrograde	985 Mar 16 j 08:35	15°♎34'12	
inferior conj	984 Apr 14 j 18:09	29°♎53'52	0°37'37	evening set	985 Mar 18 j 14:55	15°♎17'23	
minimum elong	984 Apr 14 j 19:46	29°♎51'21	0°37'03	inferior conj	985 Mar 26 j 12:59	10°♎59'09	2°12'20
	984 Apr 14 j 14:13	30°♎♎		minimum elong	985 Mar 26 j 17:06	10°♎51'41	2°11'08
desc. node	984 Apr 16 j 22:53	28°♎31'40		min. Earth dist.	985 Mar 29 j 18:54	8°♎39'23	0.57227 AU
min. Earth dist.	984 Apr 17 j 02:29	28°♎26'10	0.55701 AU	morning rise	985 Apr 03 j 16:12	5°♎51'09	
morning rise	984 Apr 23 j 12:10	25°♎19'11		desc. node	985 Apr 03 j 19:55	5°♎47'15	
direct	984 Apr 27 j 18:57	24°♎38'18		direct	985 Apr 09 j 01:32	4°♎40'58	
	984 May 09 j 22:36	0°♎		morning max el	985 Apr 23 j 09:09	12°♎09'08	26°00'37
morning max el	984 May 11 j 18:03	1°♎37'38	24°27'49		985 May 07 j 05:55	0°♎	
	984 May 31 j 07:11	0°♎		morning set	985 May 21 j 11:29	26°♎26'11	
asc. node	984 Jun 04 j 22:51	9°♎18'36		asc. node	985 May 22 j 19:54	29°♎18'12	
morning set	984 Jun 06 j 00:05	11°♎30'42			985 May 23 j 03:42	0°♎	
superior conj	984 Jun 13 j 00:12	26°♎37'42	1°15'57	superior conj	985 May 28 j 11:18	11°♎35'30	0°56'30
minimum elong	984 Jun 12 j 21:45	26°♎24'25	1°15'35	minimum elong	985 May 28 j 09:09	11°♎23'42	0°56'06
max. Earth dist.	984 Jun 14 j 16:17	0°♎14'21	1.33056 AU	max. Earth dist.	985 May 29 j 02:18	12°♎57'46	1.32472 AU
	984 Jun 14 j 13:37	0°♎		evening rise	985 Jun 04 j 11:32	26°♎40'11	
evening rise	984 Jun 20 j 07:18	12°♎02'42			985 Jun 06 j 02:24	0°♎	
	984 Jun 29 j 18:46	0°♎			985 Jun 23 j 06:10	0°♎	
desc. node	984 Jul 13 j 22:12	21°♎45'14		desc. node	985 Jun 30 j 19:12	9°♎54'46	
	984 Jul 20 j 19:48	0°♎		evening max el	985 Jul 05 j 14:46	15°♎01'20	27°05'05
evening max el	984 Jul 23 j 08:37	2°♎33'11	27°25'32	retrograde	985 Jul 19 j 12:31	22°♎16'43	
retrograde	984 Aug 06 j 01:43	9°♎51'51		evening set	985 Jul 26 j 13:30	20°♎02'47	
evening set	984 Aug 13 j 06:38	7°♎15'40		min. Earth dist.	985 Jul 30 j 05:03	17°♎19'53	0.61308 AU
min. Earth dist.	984 Aug 16 j 21:07	4°♎11'08	0.63210 AU	inferior conj	985 Aug 02 j 08:48	14°♎34'04	-4°23'16
inferior conj	984 Aug 19 j 14:25	1°♎29'09	-3°40'12	minimum elong	985 Aug 02 j 13:19	14°♎24'07	4°22'29

morning rise	985 Aug 09 j 14:47	9° Ω 41'05		minimum elong	986 Jul 15 j 12:54	27° Ω 04'49	4°48'51
direct	985 Aug 12 j 01:29	9° Ω 16'30		morning rise	986 Jul 23 j 04:02	22° Ω 38'08	
asc. node	985 Aug 18 j 19:08	12° Ω 29'11		direct	986 Jul 25 j 15:44	22° Ω 16'48	
morning max el	985 Aug 19 j 02:44	12° Ω 47'19	17°59'22	morning max el	986 Aug 02 j 11:43	26° Ω 02'21	18°26'01
	985 Aug 30 j 17:00	0° Π		asc. node	986 Aug 05 j 16:12	29° Ω 37'44	
morning set	985 Sep 04 j 00:04	7° Π 49'58			986 Aug 05 j 23:02	0° Ω	
				morning set	986 Aug 18 j 13:46	21° Ω 38'54	
superior conj	985 Sep 14 j 06:18	26° Π 22'52	1°17'49		986 Aug 22 j 22:18	0° Π	
minimum elong	985 Sep 14 j 10:51	26° Π 42'51	1°17'20				
	985 Sep 16 j 08:13	0° Ω		superior conj	986 Aug 27 j 15:13	8° Π 50'44	1°37'07
max. Earth dist.	985 Sep 21 j 19:14	9° Ω 14'03	1.42224 AU	minimum elong	986 Aug 27 j 18:08	9° Π 04'12	1°36'54
desc. node	985 Sep 26 j 18:33	17° Ω 19'42		max. Earth dist.	986 Sep 04 j 01:52	22° Π 09'49	1.40303 AU
evening rise	985 Sep 27 j 23:46	19° Ω 16'08		evening rise	986 Sep 08 j 11:46	29° Π 38'27	
	985 Oct 04 j 21:34	0° Π			986 Sep 08 j 16:58	0° Ω	
	985 Oct 26 j 07:25	0° \mathcal{A}		desc. node	986 Sep 13 j 15:35	8° Ω 00'59	
evening max el	985 Oct 30 j 14:13	4° \mathcal{A} 47'17	22°14'26		986 Sep 28 j 09:13	0° Π	
retrograde	985 Nov 09 j 02:06	10° \mathcal{A} 26'02		evening max el	986 Oct 13 j 04:39	18° Π 20'20	23°34'15
evening set	985 Nov 13 j 14:02	8° \mathcal{A} 37'50		retrograde	986 Oct 23 j 19:10	24° Π 36'01	
asc. node	985 Nov 14 j 18:22	7° \mathcal{A} 32'55		evening set	986 Oct 28 j 20:26	22° Π 30'09	
inferior conj	985 Nov 18 j 22:24	2° \mathcal{A} 18'48	1°23'43	asc. node	986 Nov 01 j 15:26	18° Π 16'34	
minimum elong	985 Nov 18 j 20:36	2° \mathcal{A} 25'03	1°23'00	inferior conj	986 Nov 03 j 05:35	16° Π 07'34	0°32'44
min. Earth dist.	985 Nov 18 j 21:44	2° \mathcal{A} 21'08	0.67729 AU	minimum elong	986 Nov 03 j 04:48	16° Π 10'12	0°32'24
	985 Nov 20 j 15:09	30° $\mathcal{R}\Pi$		min. Earth dist.	986 Nov 02 j 18:20	16° Π 45'59	0.67693 AU
morning rise	985 Nov 24 j 03:01	26° Π 07'15		morning rise	986 Nov 08 j 13:09	10° Π 00'05	
direct	985 Nov 28 j 20:02	24° Π 09'35		direct	986 Nov 12 j 15:58	8° Π 25'04	
morning max el	985 Dec 08 j 08:56	29° Π 47'49	22°24'52	morning max el	986 Nov 21 j 01:44	13° Π 18'33	21°03'20
	985 Dec 08 j 13:44	0° \mathcal{A}			986 Dec 04 j 03:14	0° \mathcal{A}	
desc. node	985 Dec 23 j 17:48	19° \mathcal{A} 22'25		desc. node	986 Dec 10 j 14:51	9° \mathcal{A} 29'30	
	985 Dec 30 j 23:02	0° \mathcal{B}		morning set	986 Dec 21 j 07:16	25° \mathcal{A} 49'43	
morning set	986 Jan 10 j 23:06	17° \mathcal{B} 15'24			986 Dec 23 j 22:48	0° \mathcal{B}	
max. Earth dist.	986 Jan 16 j 04:15	25° \mathcal{B} 54'48	1.40648 AU	max. Earth dist.	986 Dec 29 j 07:46	8° \mathcal{B} 38'36	1.42591 AU
	986 Jan 18 j 13:41	0° \approx					
superior conj	986 Jan 23 j 23:40	9° \approx 31'55	-2°00'57	superior conj	987 Jan 05 j 09:45	20° \mathcal{B} 26'45	-2°02'15
minimum elong	986 Jan 24 j 01:48	9° \approx 41'33	2°00'53	minimum elong	987 Jan 05 j 07:47	20° \mathcal{B} 18'24	2°02'13
evening rise	986 Feb 03 j 02:11	28° \approx 13'51			987 Jan 10 j 22:15	0° \approx	
	986 Feb 04 j 00:47	0° \mathcal{H}		evening rise	987 Jan 16 j 23:16	10° \approx 45'26	
asc. node	986 Feb 10 j 17:40	12° \mathcal{H} 11'53			987 Jan 28 j 03:31	0° \mathcal{H}	
evening max el	986 Feb 19 j 07:59	24° \mathcal{H} 13'13	18°19'45	asc. node	987 Jan 28 j 14:44	0° \mathcal{H} 42'21	
retrograde	986 Feb 26 j 13:04	27° \mathcal{H} 48'00		evening max el	987 Feb 02 j 18:45	7° \mathcal{H} 15'02	18°07'36
evening set	986 Mar 01 j 01:06	27° \mathcal{H} 23'15		retrograde	987 Feb 09 j 10:01	10° \mathcal{H} 39'47	
inferior conj	986 Mar 08 j 05:02	22° \mathcal{H} 44'18	3°12'33	evening set	987 Feb 12 j 02:57	10° \mathcal{H} 05'44	
minimum elong	986 Mar 08 j 08:27	22° \mathcal{H} 37'03	3°11'56	inferior conj	987 Feb 18 j 16:17	5° \mathcal{H} 05'40	3°41'27
min. Earth dist.	986 Mar 11 j 15:21	19° \mathcal{H} 51'48	0.59225 AU	minimum elong	987 Feb 18 j 17:40	5° \mathcal{H} 02'18	3°41'22
morning rise	986 Mar 15 j 13:23	17° \mathcal{H} 09'38		min. Earth dist.	987 Feb 21 j 18:51	2° \mathcal{H} 05'03	0.61345 AU
direct	986 Mar 21 j 21:00	15° \mathcal{H} 22'40			987 Feb 24 j 05:12	30° $\mathcal{R}\approx$	
desc. node	986 Mar 21 j 16:58	15° \mathcal{H} 22'44		morning rise	987 Feb 25 j 06:50	29° \approx 13'23	
morning max el	986 Apr 05 j 04:59	23° \mathcal{H} 06'32	27°09'52	direct	987 Mar 04 j 03:14	26° \approx 52'14	
	986 Apr 11 j 08:43	0° \mathcal{Y}		desc. node	987 Mar 08 j 14:01	27° \approx 46'23	
	986 Apr 30 j 06:08	0° \mathcal{B}			987 Mar 12 j 16:24	0° \mathcal{H}	
morning set	986 May 05 j 20:48	11° \mathcal{B} 14'20		morning max el	987 Mar 18 j 07:18	4° \mathcal{H} 44'31	27°45'03
asc. node	986 May 09 j 16:58	19° \mathcal{B} 25'41			987 Apr 06 j 03:12	0° \mathcal{Y}	
				morning set	987 Apr 20 j 02:04	25° \mathcal{Y} 47'47	
superior conj	986 May 12 j 23:07	26° \mathcal{B} 33'15	0°33'52		987 Apr 22 j 02:37	0° \mathcal{B}	
minimum elong	986 May 12 j 21:40	26° \mathcal{B} 25'18	0°33'34	max. Earth dist.	987 Apr 26 j 02:12	8° \mathcal{B} 31'40	1.32421 AU
max. Earth dist.	986 May 12 j 14:58	25° \mathcal{B} 48'28	1.32258 AU	asc. node	987 Apr 26 j 14:01	9° \mathcal{B} 35'55	
	986 May 14 j 12:43	0° Π					
evening rise	986 May 19 j 20:22	11° \mathcal{B} 29'55		superior conj	987 Apr 27 j 09:52	11° \mathcal{B} 24'15	0°08'46
	986 May 29 j 07:37	0° \mathcal{B}		minimum elong	987 Apr 27 j 09:28	11° \mathcal{B} 22'03	0°08'40
evening max el	986 Jun 17 j 14:32	26° \mathcal{B} 45'04	26°11'56	behind sun begin	987 Apr 27 j 05:11	10° \mathcal{B} 58'37	
desc. node	986 Jun 17 j 16:13	26° \mathcal{B} 49'06		behind sun end	987 Apr 27 j 13:46	11° \mathcal{B} 45'30	
	986 Jun 21 j 10:33	0° Ω		evening rise	987 May 04 j 07:37	26° \mathcal{B} 23'31	
retrograde	986 Jul 01 j 14:43	3° Ω 56'50			987 May 06 j 00:55	0° Π	
evening set	986 Jul 07 j 23:54	2° Ω 17'00			987 May 23 j 12:47	0° \mathcal{B}	
	986 Jul 11 j 16:12	30° $\mathcal{R}\mathcal{B}$		evening max el	987 May 30 j 07:19	7° \mathcal{B} 43'48	24°51'53
min. Earth dist.	986 Jul 12 j 03:18	29° \mathcal{B} 39'58	0.59255 AU	desc. node	987 Jun 04 j 13:16	11° \mathcal{B} 56'57	
inferior conj	986 Jul 15 j 11:01	27° \mathcal{B} 08'26	-4°48'58	retrograde	987 Jun 13 j 06:33	14° \mathcal{B} 49'09	
				evening set	987 Jun 18 j 10:51	13° \mathcal{B} 48'03	

min. Earth dist.	1987 Jun 23 j 18:41	10°☿58'49	0.57293 AU	inferior conj	1988 Jun 06 j 04:35	20°♊10'03	-3°59'11
inferior conj	1987 Jun 26 j 17:45	9°☿01'34	-4°45'18	minimum elong	1988 Jun 05 j 21:29	20°♊20'32	3°57'39
minimum elong	1987 Jun 26 j 14:53	9°☿06'19	4°45'05	morning rise	1988 Jun 14 j 18:48	16°♊15'30	
morning rise	1987 Jul 04 j 21:40	4°☿53'03		direct	1988 Jun 17 j 12:45	15°♊57'11	
direct	1987 Jul 07 j 11:55	4°☿33'50		morning max el	1988 Jun 28 j 02:59	20°♊51'16	20°22'18
morning max el	1987 Jul 16 j 12:37	8°☿46'32	19°13'37		1988 Jul 05 j 13:22	0°☿	
asc. node	1987 Jul 23 j 13:16	17°☿39'51		asc. node	1988 Jul 09 j 10:18	6°☿23'04	
	1987 Jul 30 j 12:16	0°♊		morning set	1988 Jul 16 j 17:52	20°☿30'31	
morning set	1987 Aug 02 j 12:40	5°♊55'00			1988 Jul 21 j 08:36	0°♊	
superior conj	1987 Aug 10 j 17:56	22°♊12'00	1°45'37	superior conj	1988 Jul 24 j 09:26	6°♊12'06	1°45'21
minimum elong	1987 Aug 10 j 18:50	22°♊16'18	1°45'35	minimum elong	1988 Jul 24 j 08:38	6°♊08'05	1°45'20
	1987 Aug 14 j 20:11	0°♊		max. Earth dist.	1988 Jul 29 j 11:01	16°♊13'43	1.36365 AU
max. Earth dist.	1987 Aug 17 j 05:17	4°♊23'29	1.38266 AU	evening rise	1988 Aug 02 j 10:23	23°♊43'01	
evening rise	1987 Aug 21 j 00:12	11°♊09'21			1988 Aug 05 j 22:06	0°♊	
desc. node	1987 Aug 31 j 12:36	28°♊33'01		desc. node	1988 Aug 17 j 09:36	18°♊50'44	
	1987 Sep 01 j 10:58	0°♊			1988 Aug 25 j 02:42	0°♊	
	1987 Sep 23 j 19:18	0°♊		evening max el	1988 Sep 07 j 04:19	15°♊34'22	26°01'41
evening max el	1987 Sep 25 j 16:39	1°♊56'20	24°52'28	retrograde	1988 Sep 19 j 16:46	22°♊41'29	
retrograde	1987 Oct 07 j 08:17	8°♊42'56		evening set	1988 Sep 25 j 22:32	20°♊05'09	
evening set	1987 Oct 12 j 23:53	6°♊20'13		min. Earth dist.	1988 Sep 30 j 04:18	15°♊30'56	0.66629 AU
min. Earth dist.	1987 Oct 17 j 13:19	1°♊10'11	0.67327 AU	inferior conj	1988 Oct 01 j 13:16	13°♊47'45	-1°18'40
inferior conj	1987 Oct 18 j 11:08	29°♊58'07	-0°21'53	minimum elong	1988 Oct 01 j 15:18	13°♊41'22	1°17'49
minimum elong	1987 Oct 18 j 11:41	29°♊56'19	0°21'39	asc. node	1988 Oct 05 j 09:32	9°♊26'11	
	1987 Oct 18 j 10:34	30°♊		morning rise	1988 Oct 07 j 08:26	7°♊55'47	
asc. node	1987 Oct 19 j 12:29	28°♊35'12		direct	1988 Oct 10 j 12:17	6°♊58'27	
morning rise	1987 Oct 23 j 23:37	23°♊57'01		morning max el	1988 Oct 17 j 09:57	10°♊49'54	18°58'04
direct	1987 Oct 27 j 13:52	22°♊42'34			1988 Oct 31 j 07:23	0°♊	
morning max el	1987 Nov 04 j 02:15	27°♊00'03	19°53'24	morning set	1988 Nov 08 j 12:37	12°♊51'18	
	1987 Nov 06 j 19:14	0°♊		desc. node	1988 Nov 13 j 08:54	20°♊27'33	
desc. node	1987 Nov 27 j 11:53	29°♊52'57			1988 Nov 19 j 10:53	0°♊	
	1987 Nov 27 j 13:43	0°♊		max. Earth dist.	1988 Nov 23 j 10:27	6°♊15'26	1.44925 AU
morning set	1987 Nov 30 j 03:28	3°♊57'55		superior conj	1988 Nov 25 j 01:39	8°♊49'45	-1°12'33
max. Earth dist.	1987 Dec 11 j 18:28	22°♊10'52	1.44072 AU	minimum elong	1988 Nov 24 j 17:23	8°♊17'12	1°11'37
superior conj	1987 Dec 16 j 17:18	0°♊08'28	-1°46'44		1988 Dec 08 j 07:48	0°♊	
minimum elong	1987 Dec 16 j 10:17	29°♊39'57	1°46'12	evening rise	1988 Dec 10 j 06:18	3°♊08'39	
	1987 Dec 16 j 15:13	0°♊			1988 Dec 27 j 11:13	0°♊	
evening rise	1987 Dec 30 j 01:59	22°♊26'09		evening max el	1988 Dec 30 j 18:55	3°♊54'54	18°40'14
	1988 Jan 03 j 12:15	0°♊		asc. node	1989 Jan 01 j 08:50	5°♊23'06	
asc. node	1988 Jan 15 j 11:47	18°♊30'28		retrograde	1989 Jan 06 j 10:45	7°♊37'33	
evening max el	1988 Jan 17 j 07:17	20°♊31'11	18°14'43	evening set	1989 Jan 09 j 13:58	6°♊41'59	
retrograde	1988 Jan 23 j 18:41	23°♊59'19		inferior conj	1989 Jan 15 j 08:33	1°♊04'19	3°33'45
evening set	1988 Jan 26 j 16:24	23°♊15'04		minimum elong	1989 Jan 15 j 06:36	1°♊10'11	3°33'29
inferior conj	1988 Feb 01 j 18:48	17°♊55'15	3°46'21		1989 Jan 16 j 05:47	30°♊	
minimum elong	1988 Feb 01 j 18:12	17°♊56'53	3°46'20	min. Earth dist.	1989 Jan 17 j 05:57	28°♊47'37	0.64969 AU
min. Earth dist.	1988 Feb 04 j 07:38	15°♊08'49	0.63314 AU	morning rise	1989 Jan 20 j 22:48	24°♊55'49	
morning rise	1988 Feb 07 j 19:10	11°♊52'37		direct	1989 Jan 27 j 16:36	22°♊03'29	
direct	1988 Feb 14 j 18:18	9°♊08'26		desc. node	1989 Feb 09 j 08:05	29°♊09'58	
desc. node	1988 Feb 23 j 11:04	12°♊34'25		morning max el	1989 Feb 10 j 00:07	29°♊49'34	27°06'41
morning max el	1988 Feb 28 j 14:39	17°♊02'34	27°42'57		1989 Feb 10 j 04:16	0°♊	
	1988 Mar 10 j 09:27	0°♊			1989 Mar 04 j 07:41	0°♊	
	1988 Mar 28 j 21:00	0°♊		morning set	1989 Mar 17 j 14:31	23°♊37'58	
morning set	1988 Apr 03 j 00:59	9°♊59'09			1989 Mar 20 j 20:02	0°♊	
max. Earth dist.	1988 Apr 08 j 07:57	20°♊53'45	1.32984 AU	max. Earth dist.	1989 Mar 22 j 04:18	2°♊43'04	1.33982 AU
superior conj	1988 Apr 10 j 17:53	26°♊02'57	-0°18'02	superior conj	1989 Mar 25 j 21:05	10°♊22'19	-0°45'28
minimum elong	1988 Apr 10 j 18:45	26°♊07'39	0°17'51	minimum elong	1989 Mar 25 j 23:20	10°♊34'05	0°45'01
asc. node	1988 Apr 12 j 11:04	29°♊45'04		asc. node	1989 Mar 30 j 08:06	19°♊48'27	
	1988 Apr 12 j 13:50	0°♊		evening rise	1989 Apr 02 j 05:57	25°♊56'37	
evening rise	1988 Apr 17 j 19:27	11°♊14'43			1989 Apr 04 j 05:03	0°♊	
	1988 Apr 27 j 10:51	0°♊		evening max el	1989 Apr 22 j 16:01	28°♊55'31	21°44'01
evening max el	1988 May 10 j 21:21	18°♊16'59	23°17'35		1989 Apr 23 j 19:54	0°♊	
desc. node	1988 May 21 j 10:16	24°♊42'03		retrograde	1989 May 05 j 02:26	5°♊00'35	
retrograde	1988 May 24 j 10:15	25°♊02'32		evening set	1989 May 07 j 15:14	4°♊46'11	
evening set	1988 May 28 j 02:50	24°♊32'38		desc. node	1989 May 08 j 07:17	4°♊37'46	
min. Earth dist.	1988 Jun 04 j 07:16	21°♊16'47	0.55763 AU	inferior conj	1989 May 17 j 01:13	0°♊43'36	-2°27'18

minimum elong	989 May 16 j 18:42	0° Π 52'44	2°25'10	desc. node	990 Apr 25 j 04:19	12° \mathcal{B} 05'14	
min. Earth dist.	989 May 16 j 19:40	0° Π 51'23	0.54995 AU	inferior conj	990 Apr 26 j 20:21	11° \mathcal{B} 07'27	-0°28'58
	989 May 18 j 08:30	30° \mathcal{R} 8		minimum elong	990 Apr 26 j 19:00	11° \mathcal{B} 09'26	0°28'29
morning rise	989 May 25 j 23:10	26° \mathcal{B} 47'35		min. Earth dist.	990 Apr 28 j 08:48	10° \mathcal{B} 14'14	0.55176 AU
direct	989 May 29 j 00:48	26° \mathcal{B} 26'51		morning rise	990 May 05 j 18:53	6° \mathcal{B} 51'27	
	989 Jun 07 j 14:39	0° Π		direct	990 May 09 j 12:36	6° \mathcal{B} 21'10	
morning max el	989 Jun 10 j 06:02	2° Π 12'11	21°49'49	morning max el	990 May 23 j 00:05	12° \mathcal{B} 55'59	23°29'33
asc. node	989 Jun 26 j 07:20	25° Π 37'20			990 Jun 04 j 23:48	0° Π	
	989 Jun 28 j 12:44	0° \mathcal{E}		asc. node	990 Jun 13 j 04:22	15° Π 14'20	
morning set	989 Jul 01 j 03:07	5° \mathcal{E} 19'11		morning set	990 Jun 15 j 14:30	20° Π 15'03	
					990 Jun 20 j 03:54	0° \mathcal{E}	
superior conj	989 Jul 08 j 09:48	20° \mathcal{E} 39'24	1°38'09	superior conj	990 Jun 22 j 16:05	5° \mathcal{E} 24'19	1°25'24
minimum elong	989 Jul 08 j 07:55	20° \mathcal{E} 29'29	1°38'01	minimum elong	990 Jun 22 j 13:41	5° \mathcal{E} 11'25	1°25'06
max. Earth dist.	989 Jul 12 j 00:48	28° \mathcal{E} 08'35	1.34776 AU	max. Earth dist.	990 Jun 25 j 00:10	10° \mathcal{E} 23'25	1.33573 AU
	989 Jul 12 j 22:50	0° Ω		evening rise	990 Jun 30 j 05:13	21° \mathcal{E} 07'44	
evening rise	989 Jul 16 j 13:34	7° Ω 06'56			990 Jul 04 j 19:15	0° Ω	
	989 Jul 29 j 13:12	0° \mathcal{M}		desc. node	990 Jul 22 j 03:38	28° Ω 13'27	
desc. node	989 Aug 04 j 06:37	8° \mathcal{M} 47'25			990 Jul 23 j 10:53	0° \mathcal{M}	
evening max el	989 Aug 20 j 16:31	29° \mathcal{M} 08'49	26°54'09	evening max el	990 Aug 03 j 04:08	12° \mathcal{M} 27'31	27°22'29
	989 Aug 21 j 14:18	0° \mathcal{L}		retrograde	990 Aug 16 j 17:03	19° \mathcal{M} 45'57	
retrograde	989 Sep 02 j 19:53	6° \mathcal{L} 25'27		evening set	990 Aug 23 j 20:04	17° \mathcal{M} 03'35	
evening set	989 Sep 09 j 14:12	3° \mathcal{L} 41'31		min. Earth dist.	990 Aug 27 j 12:51	13° \mathcal{M} 41'26	0.64182 AU
	989 Sep 13 j 07:20	30° \mathcal{R} 8		inferior conj	990 Aug 29 j 22:48	11° \mathcal{M} 08'25	-3°10'52
min. Earth dist.	989 Sep 13 j 12:56	29° \mathcal{M} 44'06	0.65584 AU	minimum elong	990 Aug 30 j 03:30	10° \mathcal{M} 55'57	3°09'23
inferior conj	989 Sep 15 j 09:58	27° \mathcal{M} 33'16	-2°15'48	morning rise	990 Sep 05 j 11:53	5° \mathcal{M} 44'21	
minimum elong	989 Sep 15 j 13:29	27° \mathcal{M} 23'00	2°14'28	direct	990 Sep 08 j 02:14	5° \mathcal{M} 10'09	
morning rise	989 Sep 21 j 13:25	21° \mathcal{M} 53'29		asc. node	990 Sep 09 j 03:35	5° \mathcal{M} 15'53	
asc. node	989 Sep 22 j 06:33	21° \mathcal{M} 34'09		morning max el	990 Sep 14 j 14:39	8° \mathcal{M} 36'31	17°57'04
direct	989 Sep 24 j 09:16	21° \mathcal{M} 09'29			990 Sep 28 j 22:38	0° \mathcal{L}	
morning max el	989 Sep 30 j 22:58	24° \mathcal{M} 44'11	18°19'00	morning set	990 Oct 01 j 18:22	4° \mathcal{L} 49'05	
	989 Oct 05 j 07:31	0° \mathcal{L}					
morning set	989 Oct 20 j 01:40	23° \mathcal{L} 09'56		superior conj	990 Oct 14 j 18:28	26° \mathcal{L} 31'52	0°22'19
	989 Oct 24 j 06:43	0° \mathcal{M}		minimum elong	990 Oct 14 j 20:57	26° \mathcal{L} 41'58	0°21'59
desc. node	989 Oct 31 j 05:55	11° \mathcal{M} 09'58			990 Oct 16 j 21:59	0° \mathcal{M}	
superior conj	989 Nov 04 j 02:53	17° \mathcal{M} 18'00	-0°25'31	desc. node	990 Oct 18 j 02:57	1° \mathcal{M} 56'14	
minimum elong	989 Nov 03 j 23:34	17° \mathcal{M} 04'52	0°25'04	max. Earth dist.	990 Oct 19 j 23:49	4° \mathcal{M} 55'09	1.44447 AU
max. Earth dist.	989 Nov 06 j 05:20	20° \mathcal{M} 36'39	1.45055 AU	evening rise	990 Oct 30 j 22:45	22° \mathcal{M} 02'22	
	989 Nov 12 j 05:02	0° \mathcal{X}			990 Nov 05 j 03:32	0° \mathcal{X}	
evening rise	989 Nov 20 j 11:16	12° \mathcal{X} 55'14			990 Nov 26 j 11:32	0° \mathcal{Z}	
	989 Dec 01 j 10:28	0° \mathcal{Z}		evening max el	990 Nov 27 j 07:02	0° \mathcal{Z} 51'40	20°20'25
greatest brilliancy	989 Dec 01 j 15:24	0° \mathcal{Z} 18'56	-0.7m	retrograde	990 Dec 05 j 04:42	5° \mathcal{Z} 30'44	
evening max el	989 Dec 14 j 03:25	17° \mathcal{Z} 22'39	19°22'46	asc. node	990 Dec 06 j 02:52	5° \mathcal{Z} 25'55	
asc. node	989 Dec 19 j 05:51	21° \mathcal{Z} 06'23		evening set	990 Dec 08 j 23:18	4° \mathcal{Z} 08'04	
retrograde	989 Dec 21 j 06:57	21° \mathcal{Z} 29'27			990 Dec 12 j 21:51	30° \mathcal{R} 8	
evening set	989 Dec 24 j 17:00	20° \mathcal{Z} 21'09		inferior conj	990 Dec 14 j 09:22	28° \mathcal{X} 01'55	2°33'20
inferior conj	989 Dec 30 j 06:18	14° \mathcal{Z} 27'50	3°08'21	minimum elong	990 Dec 14 j 06:41	28° \mathcal{X} 10'58	2°32'30
minimum elong	989 Dec 30 j 03:41	14° \mathcal{Z} 36'16	3°07'45	min. Earth dist.	990 Dec 15 j 02:39	27° \mathcal{X} 03'28	0.67106 AU
min. Earth dist.	989 Dec 31 j 12:52	12° \mathcal{Z} 49'05	0.66239 AU	morning rise	990 Dec 19 j 13:54	21° \mathcal{X} 48'47	
morning rise	990 Jan 04 j 14:08	8° \mathcal{Z} 16'07		direct	990 Dec 25 j 06:34	19° \mathcal{X} 17'28	
direct	990 Jan 10 j 20:57	5° \mathcal{Z} 29'20		morning max el	991 Jan 05 j 17:57	26° \mathcal{X} 07'46	24°42'56
morning max el	990 Jan 23 j 09:26	12° \mathcal{Z} 54'11	26°03'30		991 Jan 09 j 07:36	0° \mathcal{Z}	
desc. node	990 Jan 27 j 05:08	17° \mathcal{Z} 02'54		desc. node	991 Jan 14 j 02:12	5° \mathcal{Z} 50'49	
	990 Feb 06 j 05:14	0° \approx			991 Jan 30 j 19:08	0° \approx	
	990 Feb 25 j 00:18	0° \mathcal{H}		morning set	991 Feb 10 j 20:03	18° \approx 27'11	
morning set	990 Feb 28 j 14:37	6° \mathcal{H} 32'10		max. Earth dist.	991 Feb 14 j 11:51	25° \approx 02'04	1.37306 AU
max. Earth dist.	990 Mar 04 j 12:59	13° \mathcal{H} 59'20	1.35439 AU		991 Feb 17 j 04:03	0° \mathcal{H}	
superior conj	990 Mar 09 j 17:04	24° \mathcal{H} 15'09	-1°12'09	superior conj	991 Feb 21 j 02:43	7° \mathcal{H} 33'00	-1°36'03
minimum elong	990 Mar 09 j 20:31	24° \mathcal{H} 32'40	1°11'34	minimum elong	991 Feb 21 j 06:47	7° \mathcal{H} 52'51	1°35'34
	990 Mar 12 j 12:27	0° \mathcal{Y}		evening rise	991 Mar 01 j 14:56	24° \mathcal{H} 27'41	
asc. node	990 Mar 17 j 05:08	9° \mathcal{Y} 41'48		asc. node	991 Mar 04 j 02:11	29° \mathcal{H} 20'27	
evening rise	990 Mar 17 j 13:11	10° \mathcal{Y} 23'05			991 Mar 04 j 10:18	0° \mathcal{Y}	
	990 Mar 28 j 01:15	0° \mathcal{B}		evening max el	991 Mar 18 j 12:58	21° \mathcal{Y} 50'43	19°19'11
evening max el	990 Apr 04 j 20:47	10° \mathcal{B} 03'44	20°22'35	retrograde	991 Mar 27 j 15:31	26° \mathcal{Y} 14'20	
retrograde	990 Apr 15 j 15:41	15° \mathcal{B} 16'13		evening set	991 Mar 29 j 18:51	26° \mathcal{Y} 00'51	
evening set	990 Apr 17 j 17:46	15° \mathcal{B} 05'21		inferior conj	991 Apr 07 j 04:03	21° \mathcal{Y} 52'16	1°21'46

minimum elong	991 Apr 07 j 07:12	21°♄47'03	1°20'43	minimum elong	992 Mar 18 j 12:03	3°♄06'25	2°41'05
min. Earth dist.	991 Apr 09 j 23:34	20°♄01'04	0.56264 AU	min. Earth dist.	992 Mar 21 j 17:31	0°♄37'45	0.58030 AU
desc. node	991 Apr 12 j 01:22	18°♄45'34			992 Mar 22 j 14:35	30°♄	
morning rise	991 Apr 15 j 16:42	17°♄03'25		morning rise	992 Mar 26 j 03:12	27°♄53'31	
direct	991 Apr 20 j 10:34	16°♄11'51		desc. node	992 Mar 28 j 22:25	26°♄51'19	
morning max el	991 May 04 j 14:43	23°♄24'38	25°09'24	direct	992 Mar 31 j 22:41	26°♄28'14	
	991 May 10 j 12:56	0°♄			992 Apr 10 j 11:18	0°♄	
	991 May 28 j 14:03	0°♄		morning max el	992 Apr 15 j 07:39	4°♄04'56	26°33'51
morning set	991 May 31 j 02:25	5°♄12'51			992 May 04 j 03:14	0°♄	
asc. node	991 May 31 j 01:26	5°♄07'39		morning set	992 May 14 j 13:09	20°♄05'48	
				asc. node	992 May 16 j 22:30	25°♄10'58	
					992 May 19 j 03:43	0°♄	
superior conj	991 Jun 07 j 02:02	20°♄19'42	1°08'09	superior conj	992 May 21 j 13:39	5°♄17'56	0°47'16
minimum elong	991 Jun 06 j 23:39	20°♄06'44	1°07'45	minimum elong	992 May 21 j 11:45	5°♄07'30	0°46'53
max. Earth dist.	991 Jun 08 j 07:19	22°♄59'14	1.32762 AU	max. Earth dist.	992 May 21 j 18:50	5°♄46'28	1.32329 AU
	991 Jun 11 j 13:38	0°♄		evening rise	992 May 28 j 12:10	20°♄17'46	
evening rise	991 Jun 14 j 05:44	5°♄34'43			992 Jun 02 j 07:19	0°♄	
	991 Jun 27 j 09:48	0°♄			992 Jun 20 j 23:10	0°♄	
desc. node	991 Jul 09 j 00:39	16°♄56'01		desc. node	992 Jun 24 j 21:41	4°♄36'35	
evening max el	991 Jul 16 j 12:55	25°♄17'19	27°20'47	evening max el	992 Jun 27 j 16:18	7°♄26'09	26°46'13
	991 Jul 22 j 11:39	0°♄		retrograde	992 Jul 11 j 15:26	14°♄40'53	
retrograde	991 Jul 30 j 07:50	2°♄34'15		evening set	992 Jul 18 j 11:23	12°♄39'53	
evening set	991 Aug 06 j 12:37	0°♄05'36		min. Earth dist.	992 Jul 22 j 06:04	10°♄01'52	0.60442 AU
	991 Aug 06 j 15:53	30°♄		inferior conj	992 Jul 25 j 12:48	7°♄19'18	-4°36'56
min. Earth dist.	991 Aug 10 j 02:33	27°♄12'12	0.62442 AU	minimum elong	992 Jul 25 j 16:30	7°♄11'37	4°36'27
inferior conj	991 Aug 13 j 00:53	24°♄26'38	-3°59'59	morning rise	992 Aug 01 j 23:33	2°♄36'11	
minimum elong	991 Aug 13 j 05:55	24°♄14'44	3°58'48	direct	992 Aug 04 j 10:19	2°♄13'18	
morning rise	991 Aug 20 j 00:35	19°♄21'42		morning max el	992 Aug 11 j 18:30	5°♄48'58	18°08'13
direct	991 Aug 22 j 11:55	18°♄54'20		asc. node	992 Aug 12 j 21:43	6°♄59'05	
asc. node	991 Aug 27 j 00:38	20°♄28'35			992 Aug 27 j 03:07	0°♄	
morning max el	991 Aug 29 j 06:11	22°♄20'42	17°53'05	morning set	992 Aug 27 j 15:36	0°♄58'28	
	991 Sep 04 j 04:25	0°♄					
morning set	991 Sep 14 j 08:57	17°♄30'35		superior conj	992 Sep 06 j 08:27	18°♄53'38	1°27'26
	991 Sep 21 j 09:56	0°♄		minimum elong	992 Sep 06 j 12:26	19°♄11'30	1°27'03
superior conj	991 Sep 25 j 12:20	7°♄03'56	1°01'07		992 Sep 12 j 16:57	0°♄	
minimum elong	991 Sep 25 j 17:06	7°♄24'08	1°00'32	max. Earth dist.	992 Sep 13 j 23:30	2°♄09'20	1.41434 AU
max. Earth dist.	991 Oct 02 j 14:32	18°♄51'14	1.43184 AU	evening rise	992 Sep 19 j 06:19	10°♄52'12	
desc. node	991 Oct 04 j 23:58	22°♄43'04		desc. node	992 Sep 20 j 21:00	13°♄27'27	
	991 Oct 09 j 14:21	0°♄			992 Oct 01 j 15:24	0°♄	
evening rise	991 Oct 10 j 07:24	1°♄06'35		evening max el	992 Oct 22 j 21:31	27°♄52'00	22°48'09
	991 Oct 29 j 18:08	0°♄			992 Oct 25 j 03:56	0°♄	
evening max el	991 Nov 10 j 04:54	14°♄20'55	21°30'18	retrograde	992 Nov 01 j 20:59	3°♄47'40	
retrograde	991 Nov 19 j 01:56	19°♄37'46		evening set	992 Nov 06 j 14:19	1°♄52'02	
asc. node	991 Nov 22 j 23:55	18°♄12'39			992 Nov 08 j 11:47	30°♄	
evening set	991 Nov 23 j 06:59	17°♄59'11		asc. node	992 Nov 08 j 20:58	29°♄33'31	
inferior conj	991 Nov 28 j 15:31	11°♄43'34	1°50'52	inferior conj	992 Nov 11 j 22:51	25°♄30'46	1°02'37
minimum elong	991 Nov 28 j 13:16	11°♄51'19	1°50'03	minimum elong	992 Nov 11 j 21:26	25°♄35'37	1°02'03
min. Earth dist.	991 Nov 28 j 21:02	11°♄24'30	0.67599 AU	min. Earth dist.	992 Nov 11 j 17:38	25°♄48'45	0.67748 AU
morning rise	991 Dec 03 j 19:25	5°♄30'47		morning rise	992 Nov 17 j 04:27	19°♄20'27	
direct	991 Dec 08 j 20:54	3°♄20'21		direct	992 Nov 21 j 15:09	17°♄32'38	
morning max el	991 Dec 19 j 03:09	9°♄26'23	23°14'59	morning max el	992 Nov 30 j 16:11	22°♄51'40	21°48'59
desc. node	991 Dec 31 j 23:14	25°♄17'37			992 Dec 06 j 20:09	0°♄	
	992 Jan 04 j 07:13	0°♄		desc. node	992 Dec 17 j 20:16	15°♄12'28	
morning set	992 Jan 23 j 00:27	29°♄06'18			992 Dec 27 j 16:07	0°♄	
	992 Jan 23 j 13:14	0°♄		morning set	993 Jan 01 j 23:42	8°♄21'43	
max. Earth dist.	992 Jan 27 j 06:56	6°♄23'26	1.39419 AU	max. Earth dist.	993 Jan 08 j 05:32	18°♄32'12	1.41510 AU
					993 Jan 14 j 23:05	0°♄	
superior conj	992 Feb 03 j 21:55	20°♄04'43	-1°54'24	superior conj	993 Jan 15 j 21:39	1°♄38'44	-2°03'17
minimum elong	992 Feb 04 j 01:21	20°♄20'37	1°54'11	minimum elong	993 Jan 15 j 22:20	1°♄41'44	2°03'17
	992 Feb 09 j 04:07	0°♄		evening rise	993 Jan 26 j 14:02	20°♄59'19	
evening rise	992 Feb 13 j 08:22	8°♄02'19			993 Jan 31 j 12:15	0°♄	
asc. node	992 Feb 18 j 23:14	18°♄38'15		asc. node	993 Feb 04 j 20:18	7°♄28'31	
	992 Feb 25 j 23:59	0°♄		evening max el	993 Feb 11 j 23:13	17°♄03'13	18°12'12
evening max el	992 Feb 29 j 14:45	4°♄12'59	18°35'40	retrograde	993 Feb 18 j 21:10	20°♄31'52	
retrograde	992 Mar 08 j 09:18	8°♄01'03		evening set	993 Feb 21 j 11:17	20°♄03'25	
evening set	992 Mar 10 j 17:56	7°♄41'14					
inferior conj	992 Mar 18 j 07:56	3°♄14'24	2°42'05				

inferior conj	993 Feb 28 j 08:35	15° H 15'43	3°28'11	evening set	994 Feb 04 j 18:30	2° H 57'50	
minimum elong	993 Feb 28 j 11:12	15° H 09'49	3°27'50		994 Feb 08 j 21:55	30° R \approx	
min. Earth dist.	993 Mar 03 j 16:53	12° H 16'22	0.60130 AU	inferior conj	994 Feb 11 j 02:46	27° \approx 49'21	3°46'01
morning rise	993 Mar 07 j 09:00	9° H 32'21		minimum elong	994 Feb 11 j 03:16	27° \approx 48'05	3°46'00
direct	993 Mar 13 j 23:25	7° H 29'30		min. Earth dist.	994 Feb 14 j 00:01	24° \approx 52'22	0.62221 AU
desc. node	993 Mar 15 j 19:29	7° H 38'39		morning rise	994 Feb 17 j 10:49	21° \approx 52'14	
morning max el	993 Mar 28 j 06:12	15° H 18'30	27°29'16	direct	994 Feb 24 j 09:44	19° \approx 19'25	
	993 Apr 09 j 04:35	0° Y		desc. node	994 Mar 02 j 16:30	21° \approx 07'29	
	993 Apr 26 j 12:32	0° Z		morning max el	994 Mar 10 j 10:40	27° \approx 12'58	27°48'35
morning set	993 Apr 28 j 20:58	4° Z 47'58			994 Mar 13 j 02:13	0° H	
asc. node	993 May 03 j 19:34	15° Z 19'49			994 Apr 02 j 20:01	0° Y	
max. Earth dist.	993 May 05 j 07:06	18° Z 33'52	1.32276 AU	morning set	994 Apr 12 j 23:48	19° Y 12'37	
					994 Apr 18 j 03:32	0° Z	
superior conj	993 May 06 j 01:13	20° Z 13'11	0°23'29	max. Earth dist.	994 Apr 18 j 16:24	1° Z 09'07	1.32608 AU
minimum elong	993 May 06 j 00:10	20° Z 07'28	0°23'15				
	993 May 10 j 12:29	0° II		superior conj	994 Apr 20 j 11:01	4° Z 59'38	-0°02'29
evening rise	993 May 12 j 22:14	5° II 09'21		minimum elong	994 Apr 20 j 11:08	5° Z 00'18	0°02'27
	993 May 26 j 02:23	0° E		behind sun begin	994 Apr 20 j 06:02	4° Z 32'34	
evening max el	993 Jun 09 j 12:53	18° E 49'13	25°40'36	behind sun end	994 Apr 20 j 16:15	5° Z 28'02	
desc. node	993 Jun 11 j 18:43	20° E 49'26		asc. node	994 Apr 20 j 16:39	5° Z 30'11	
retrograde	993 Jun 23 j 13:50	25° E 59'31		evening rise	994 Apr 27 j 09:57	20° Z 02'46	
evening set	993 Jun 29 j 11:51	24° E 36'29			994 May 02 j 06:43	0° II	
min. Earth dist.	993 Jul 04 j 01:12	21° E 56'01	0.58383 AU	evening max el	994 May 22 j 04:01	29° II 34'49	24°12'44
inferior conj	993 Jul 07 j 06:59	19° E 36'42	-4°51'52		994 May 22 j 14:37	0° E	
minimum elong	993 Jul 07 j 07:02	19° E 36'36	4°51'52	desc. node	994 May 29 j 15:44	5° E 01'23	
morning rise	993 Jul 15 j 04:40	15° E 15'57		retrograde	994 Jun 05 j 00:22	6° E 33'13	
direct	993 Jul 17 j 17:06	14° E 55'46		evening set	994 Jun 09 j 13:30	5° E 47'15	
morning max el	993 Jul 26 j 00:23	18° E 51'44	18°43'40	min. Earth dist.	994 Jun 15 j 15:03	2° E 48'13	0.56566 AU
asc. node	993 Jul 30 j 18:46	24° E 31'46		inferior conj	994 Jun 18 j 05:06	1° E 11'15	-4°31'35
	993 Aug 03 j 07:14	0° O		minimum elong	994 Jun 18 j 00:07	1° E 19'06	4°30'54
morning set	993 Aug 11 j 09:38	14° O 59'44			994 Jun 20 j 03:23	30° R II	
	993 Aug 19 j 03:17	0° P		morning rise	994 Jun 26 j 13:27	27° II 09'44	
				direct	994 Jun 29 j 05:12	26° II 50'58	
superior conj	993 Aug 20 j 01:35	1° P 45'44	1°41'54		994 Jul 07 j 07:40	0° E	
minimum elong	993 Aug 20 j 03:38	1° P 55'23	1°41'48	morning max el	994 Jul 08 j 20:56	1° E 19'51	19°40'18
max. Earth dist.	993 Aug 27 j 03:53	14° P 44'25	1.39432 AU	asc. node	994 Jul 17 j 15:49	12° E 52'57	
evening rise	993 Aug 31 j 04:46	21° P 43'51		morning set	994 Jul 26 j 11:34	29° E 25'30	
	993 Sep 05 j 04:35	0° A			994 Jul 26 j 18:26	0° O	
desc. node	993 Sep 07 j 18:00	4° A 05'19					
	993 Sep 25 j 15:41	0° M		superior conj	994 Aug 03 j 10:18	15° O 25'15	1°46'27
evening max el	993 Oct 05 j 10:42	11° M 26'34	24°08'13	minimum elong	994 Aug 03 j 10:24	15° O 25'48	1°46'27
retrograde	993 Oct 16 j 12:28	17° M 56'31		max. Earth dist.	994 Aug 09 j 07:58	26° O 47'04	1.37431 AU
evening set	993 Oct 21 j 19:38	15° M 43'34			994 Aug 11 j 01:42	0° P	
min. Earth dist.	993 Oct 26 j 13:55	10° M 13'28	0.67577 AU	evening rise	994 Aug 13 j 03:04	3° P 43'23	
asc. node	993 Oct 26 j 18:01	9° M 59'39		desc. node	994 Aug 25 j 15:02	24° P 32'25	
inferior conj	993 Oct 27 j 05:32	9° M 20'41	0°09'56		994 Aug 29 j 05:27	0° A	
minimum elong	993 Oct 27 j 05:18	9° M 21'31	0°09'50	evening max el	994 Sep 17 j 22:36	25° A 05'00	25°23'28
transit middle	993 Oct 27 j 05:18	9° M 21'31	0°09'50		994 Sep 23 j 23:24	0° M	
transit begin	993 Oct 27 j 03:07	9° M 28'51		retrograde	994 Sep 29 j 23:31	2° M 00'48	
transit end	993 Oct 27 j 07:28	9° M 14'10			994 Oct 05 j 07:29	30° R A	
morning rise	993 Nov 01 j 14:56	3° M 15'20		evening set	994 Oct 05 j 21:16	29° A 31'56	
direct	993 Nov 05 j 12:13	1° M 49'16		min. Earth dist.	994 Oct 10 j 07:29	24° A 36'56	0.67080 AU
morning max el	993 Nov 13 j 12:02	6° M 26'19	20°31'50	inferior conj	994 Oct 11 j 09:52	23° A 11'34	-0°45'45
	993 Dec 01 j 02:12	0° X		minimum elong	994 Oct 11 j 11:02	23° A 07'48	0°45'15
desc. node	993 Dec 04 j 17:16	5° X 26'54		asc. node	994 Oct 13 j 15:02	20° A 25'43	
morning set	993 Dec 11 j 23:46	16° X 35'21		morning rise	994 Oct 17 j 00:59	17° A 13'57	
	993 Dec 20 j 11:49	0° Z		direct	994 Oct 20 j 10:39	16° A 07'02	
max. Earth dist.	993 Dec 21 j 11:52	1° Z 36'42	1.43294 AU	morning max el	994 Oct 27 j 15:43	20° A 11'47	19°27'55
					994 Nov 04 j 11:21	0° M	
superior conj	993 Dec 27 j 20:39	12° Z 02'30	-1°57'57	greatest brilliancy	994 Nov 10 j 10:00	8° M 44'57	-0.7m
minimum elong	993 Dec 27 j 16:26	11° Z 44'59	1°57'45	morning set	994 Nov 20 j 22:41	24° M 55'15	
	994 Jan 07 j 08:34	0° \approx		desc. node	994 Nov 21 j 14:17	25° M 55'45	
evening rise	994 Jan 09 j 03:44	3° \approx 09'20			994 Nov 24 j 05:10	0° X	
asc. node	994 Jan 22 j 17:20	25° \approx 41'59		max. Earth dist.	994 Dec 04 j 01:38	15° X 26'47	1.44532 AU
	994 Jan 26 j 06:23	0° H					
evening max el	994 Jan 26 j 11:07	0° H 11'57	18°08'22	superior conj	994 Dec 07 j 17:14	21° X 15'07	-1°34'22
retrograde	994 Feb 01 j 23:27	3° H 36'13		minimum elong	994 Dec 07 j 08:54	20° X 41'48	1°33'36

	994 Dec 13 j 03:27	0°♄		greatest brilliancy	995 Dec 10 j 14:36	7°♄26'45	-0.8m
evening rise	994 Dec 21 j 21:16	14°♄25'45		evening max el	995 Dec 24 j 10:05	26°♄57'56	18°56'15
	994 Dec 31 j 06:17	0°♁		asc. node	995 Dec 27 j 11:21	29°♄33'26	
asc. node	995 Jan 09 j 14:21	13°♁08'00			995 Dec 28 j 05:20	0°♁	
evening max el	995 Jan 09 j 23:34	13°♁31'53	18°23'22	retrograde	995 Dec 31 j 06:06	0°♁50'03	
retrograde	995 Jan 16 j 11:45	17°♁04'41			996 Jan 03 j 04:43	30°♁♄	
evening set	995 Jan 19 j 11:47	16°♁15'36		evening set	996 Jan 03 j 12:01	29°♄49'12	
inferior conj	995 Jan 25 j 10:29	10°♁47'41	3°42'49	inferior conj	996 Jan 09 j 04:02	24°♄04'16	3°24'20
minimum elong	995 Jan 25 j 09:14	10°♁51'16	3°42'43	minimum elong	996 Jan 09 j 01:44	24°♄11'28	3°23'55
min. Earth dist.	995 Jan 27 j 16:39	8°♁12'49	0.64068 AU	min. Earth dist.	996 Jan 10 j 18:54	22°♄03'16	0.65556 AU
morning rise	995 Jan 31 j 06:05	4°♁42'19		morning rise	996 Jan 14 j 15:08	17°♄53'58	
direct	995 Feb 07 j 03:48	1°♁53'11		direct	996 Jan 21 j 04:36	15°♄02'49	
desc. node	995 Feb 17 j 13:31	6°♁45'20		morning max el	996 Feb 03 j 05:07	22°♄41'44	26°42'39
morning max el	995 Feb 20 j 19:12	9°♁44'22	27°31'23	desc. node	996 Feb 04 j 10:32	23°♄57'34	
	995 Mar 08 j 16:18	0°♁			996 Feb 09 j 16:23	0°♁	
	995 Mar 26 j 03:59	0°♁			996 Feb 29 j 22:42	0°♁	
morning set	995 Mar 27 j 19:06	3°♁11'04		morning set	996 Mar 10 j 03:32	16°♁33'06	
max. Earth dist.	995 Apr 01 j 18:45	13°♁18'57	1.33355 AU	max. Earth dist.	996 Mar 14 j 10:35	24°♁55'15	1.34548 AU
					996 Mar 16 j 22:56	0°♁	
superior conj	995 Apr 04 j 17:13	19°♁30'43	-0°29'41				
minimum elong	995 Apr 04 j 18:40	19°♁38'29	0°29'22	superior conj	996 Mar 18 j 17:41	3°♁39'54	-0°56'59
asc. node	995 Apr 07 j 13:39	25°♁37'10		minimum elong	996 Mar 18 j 20:29	3°♁54'23	0°56'27
	995 Apr 09 j 14:39	0°♁		asc. node	996 Mar 24 j 10:41	15°♁37'06	
evening rise	995 Apr 11 j 21:26	4°♁50'54		evening rise	996 Mar 26 j 06:51	19°♁27'27	
	995 Apr 25 j 14:04	0°♁			996 Mar 31 j 13:08	0°♁	
evening max el	995 May 03 j 19:03	10°♁06'05	22°36'53	evening max el	996 Apr 14 j 17:24	20°♁54'34	21°07'23
retrograde	995 May 16 j 22:20	16°♁36'43		retrograde	996 Apr 26 j 12:15	26°♁38'36	
desc. node	995 May 16 j 12:46	16°♁36'21		evening set	996 Apr 28 j 18:20	26°♁26'45	
evening set	995 May 20 j 01:38	16°♁15'05		desc. node	996 May 02 j 09:46	25°♁22'23	
min. Earth dist.	995 May 28 j 02:58	12°♁44'42	0.55328 AU	inferior conj	996 May 08 j 02:52	22°♁27'52	-1°38'22
inferior conj	995 May 29 j 08:43	12°♁02'20	-3°25'16	minimum elong	996 May 07 j 22:16	22°♁34'23	1°36'44
minimum elong	995 May 29 j 01:06	12°♁13'11	3°23'13	min. Earth dist.	996 May 08 j 15:33	22°♁09'58	0.54951 AU
morning rise	995 Jun 07 j 02:48	8°♁09'49		morning rise	996 May 17 j 02:16	18°♁25'40	
direct	995 Jun 09 j 23:29	7°♁50'58		direct	996 May 20 j 09:14	18°♁02'15	
morning max el	995 Jun 21 j 06:21	13°♁05'30	20°57'33	morning max el	996 Jun 02 j 05:15	24°♁09'28	22°31'25
	995 Jul 03 j 12:31	0°♁			996 Jun 07 j 12:05	0°♁	
asc. node	995 Jul 04 j 12:51	1°♁50'23		asc. node	996 Jun 20 j 09:55	21°♁15'08	
morning set	995 Jul 10 j 18:44	14°♁07'26		morning set	996 Jun 24 j 05:05	28°♁59'39	
					996 Jun 24 j 16:37	0°♁	
superior conj	995 Jul 18 j 05:58	29°♁38'04	1°43'04				
minimum elong	995 Jul 18 j 04:38	29°♁31'14	1°43'00	superior conj	996 Jul 01 j 09:11	14°♁13'53	1°33'22
	995 Jul 18 j 10:14	0°♁		minimum elong	996 Jul 01 j 07:01	14°♁02'21	1°33'09
max. Earth dist.	995 Jul 22 j 16:54	8°♁37'23	1.35644 AU	max. Earth dist.	996 Jul 04 j 10:33	20°♁38'26	1.34211 AU
evening rise	995 Jul 26 j 21:02	16°♁39'35		evening rise	996 Jul 09 j 05:59	0°♁20'11	
	995 Aug 03 j 07:51	0°♁			996 Jul 09 j 01:51	0°♁	
desc. node	995 Aug 12 j 12:05	14°♁42'15			996 Jul 26 j 08:38	0°♁	
	995 Aug 23 j 14:51	0°♁		desc. node	996 Jul 29 j 09:07	4°♁27'07	
evening max el	995 Aug 31 j 10:28	8°♁42'14	26°26'24	evening max el	996 Aug 12 j 22:22	22°♁10'21	27°09'28
retrograde	995 Sep 13 j 05:38	15°♁54'13		retrograde	996 Aug 26 j 06:27	29°♁29'12	
evening set	995 Sep 19 j 17:15	13°♁13'31		evening set	996 Sep 02 j 05:08	26°♁44'15	
min. Earth dist.	995 Sep 23 j 19:54	8°♁55'15	0.66234 AU	min. Earth dist.	996 Sep 06 j 00:59	23°♁02'30	0.65029 AU
inferior conj	995 Sep 25 j 09:56	6°♁59'43	-1°42'57	inferior conj	996 Sep 08 j 03:35	20°♁41'00	-2°39'38
minimum elong	995 Sep 25 j 12:37	6°♁51'33	1°41'52	minimum elong	996 Sep 08 j 07:41	20°♁29'32	2°38'11
asc. node	995 Sep 30 j 12:02	1°♁45'23		morning rise	996 Sep 14 j 11:01	15°♁07'46	
morning rise	995 Oct 01 j 08:28	1°♁12'47		asc. node	996 Sep 16 j 09:05	14°♁31'53	
direct	995 Oct 04 j 08:40	0°♁21'34		direct	996 Sep 17 j 04:08	14°♁28'29	
morning max el	995 Oct 11 j 02:02	4°♁04'27	18°39'28	morning max el	996 Sep 23 j 16:35	17°♁58'46	18°07'34
	995 Oct 29 j 00:44	0°♁			996 Oct 02 j 12:47	0°♁	
morning set	995 Oct 31 j 19:02	4°♁23'57		morning set	996 Oct 11 j 20:18	15°♁18'03	
desc. node	995 Nov 08 j 11:20	16°♁34'29			996 Oct 20 j 19:07	0°♁	
				desc. node	996 Oct 25 j 08:23	7°♁18'58	
superior conj	995 Nov 16 j 19:57	29°♁43'39	-0°53'31				
minimum elong	995 Nov 16 j 13:13	29°♁17'11	0°52'41	superior conj	996 Oct 26 j 01:00	8°♁25'11	-0°04'38
max. Earth dist.	995 Nov 16 j 19:40	29°♁42'32	1.45073 AU	minimum elong	996 Oct 26 j 00:25	8°♁22'52	0°04'33
	995 Nov 17 j 00:07	0°♁		behind sun begin	996 Oct 25 j 13:59	7°♁41'17	
evening rise	995 Dec 02 j 15:37	24°♁44'42		behind sun end	996 Oct 26 j 10:51	9°♁04'24	
	995 Dec 05 j 22:32	0°♁		max. Earth dist.	996 Oct 29 j 14:24	14°♁03'31	1.44875 AU

	1996 Nov 08 j 19:09	0°♊		superior conj	1997 Oct 06 j 03:10	18°♊11'05	0°40'13
evening rise	1996 Nov 11 j 11:52	4°♊10'57		minimum elong	1997 Oct 06 j 07:06	18°♊27'21	0°39'40
greatest brilliancy	1996 Nov 24 j 13:45	24°♊14'02	-0.7m	desc. node	1997 Oct 12 j 05:26	28°♊06'17	
	1996 Nov 28 j 12:00	0°♋		max. Earth dist.	1997 Oct 12 j 07:09	28°♊13'13	1.43977 AU
evening max el	1996 Dec 06 j 16:37	10°♋26'18	19°45'34		1997 Oct 13 j 09:53	0°♌	
asc. node	1996 Dec 13 j 08:23	14°♋42'57		evening rise	1997 Oct 21 j 19:58	13°♌11'35	
retrograde	1996 Dec 14 j 03:21	14°♋46'26			1997 Nov 01 j 22:14	0°♍	
evening set	1996 Dec 17 j 16:42	13°♋32'25		evening max el	1997 Nov 19 j 17:54	23°♍56'04	20°48'54
inferior conj	1996 Dec 23 j 04:23	7°♋33'12	2°54'31	retrograde	1997 Nov 28 j 01:04	28°♍50'43	
minimum elong	1996 Dec 23 j 01:41	7°♋42'09	2°53'49	asc. node	1997 Nov 30 j 05:25	28°♍23'55	
min. Earth dist.	1996 Dec 24 j 05:09	6°♋11'21	0.66650 AU	evening set	1997 Dec 01 j 23:49	27°♍21'40	
morning rise	1996 Dec 28 j 10:26	1°♋20'23		inferior conj	1997 Dec 07 j 09:03	21°♍11'18	2°16'09
	1996 Dec 30 j 03:57	30°♌♊		minimum elong	1997 Dec 07 j 06:30	21°♍20'00	2°15'18
direct	1997 Jan 03 j 11:26	28°♌39'07		min. Earth dist.	1997 Dec 07 j 21:16	20°♍29'30	0.67362 AU
	1997 Jan 08 j 05:39	0°♍		morning rise	1997 Dec 12 j 13:00	14°♍57'59	
morning max el	1997 Jan 15 j 14:12	5°♍51'46	25°30'45	direct	1997 Dec 17 j 23:21	12°♍34'47	
desc. node	1997 Jan 21 j 07:35	12°♍16'25		morning max el	1997 Dec 28 j 22:30	19°♍07'10	24°05'45
	1997 Feb 03 j 06:31	0°♎			1998 Jan 07 j 03:36	0°♏	
morning set	1997 Feb 20 j 20:27	29°♎04'35		desc. node	1998 Jan 08 j 04:39	1°♏22'46	
	1997 Feb 21 j 08:37	0°♐			1998 Jan 27 j 09:57	0°♑	
max. Earth dist.	1997 Feb 24 j 14:24	6°♐01'30	1.36188 AU	morning set	1998 Feb 02 j 16:00	10°♑29'25	
				max. Earth dist.	1998 Feb 06 j 10:13	17°♑05'53	1.38193 AU
superior conj	1997 Mar 02 j 09:42	17°♐18'58	-1°22'46		1998 Feb 13 j 09:48	0°♒	
minimum elong	1997 Mar 02 j 13:31	17°♐38'03	1°22'13				
	1997 Mar 08 j 15:47	0°♓		superior conj	1998 Feb 13 j 13:48	0°♒19'02	-1°44'43
evening rise	1997 Mar 10 j 12:03	3°♓45'19		minimum elong	1998 Feb 13 j 17:48	0°♒38'09	1°44'20
asc. node	1997 Mar 11 j 07:44	5°♓24'47		evening rise	1998 Feb 22 j 10:37	17°♒38'02	
	1997 Mar 25 j 22:50	0°♈		asc. node	1998 Feb 26 j 04:46	24°♒55'18	
evening max el	1997 Mar 28 j 03:07	2°♈19'09	19°53'14		1998 Feb 28 j 22:36	0°♉	
retrograde	1997 Apr 07 j 04:31	7°♈09'34		evening max el	1998 Mar 10 j 23:49	14°♉22'32	18°58'11
evening set	1997 Apr 09 j 05:57	6°♈58'18		retrograde	1998 Mar 19 j 11:09	18°♉28'29	
inferior conj	1997 Apr 18 j 01:54	2°♈57'38	0°20'44	evening set	1998 Mar 21 j 16:44	18°♉12'35	
minimum elong	1997 Apr 18 j 02:49	2°♈56'14	0°20'24	inferior conj	1998 Mar 29 j 17:40	13°♉57'03	2°00'07
desc. node	1997 Apr 19 j 06:48	2°♈13'16		minimum elong	1998 Mar 29 j 21:39	13°♉50'00	1°58'56
min. Earth dist.	1997 Apr 20 j 05:37	1°♈38'36	0.55536 AU	min. Earth dist.	1998 Apr 01 j 21:31	11°♉44'09	0.56960 AU
	1997 Apr 23 j 03:49	30°♒♓		desc. node	1998 Apr 06 j 03:50	9°♓15'21	
morning rise	1997 Apr 26 j 21:24	28°♓27'57		morning rise	1998 Apr 06 j 23:32	8°♓53'58	
direct	1997 May 01 j 00:36	27°♓50'10		direct	1998 Apr 12 j 05:01	7°♓48'55	
	1997 May 08 j 15:31	0°♈		morning max el	1998 Apr 26 j 11:53	15°♓13'20	25°48'04
morning max el	1997 May 14 j 21:10	4°♈43'51	24°12'53		1998 May 08 j 08:23	0°♉	
	1997 Jun 01 j 16:52	0°♊		morning set	1998 May 24 j 04:29	28°♉53'04	
asc. node	1997 Jun 07 j 07:00	10°♊59'49			1998 May 24 j 17:09	0°♊	
morning set	1997 Jun 08 j 16:54	13°♊56'50		asc. node	1998 May 25 j 04:03	0°♊57'58	
superior conj	1997 Jun 15 j 17:18	29°♊04'18	1°18'35	superior conj	1998 May 31 j 04:10	14°♊01'37	0°59'42
minimum elong	1997 Jun 15 j 14:51	28°♊51'01	1°18'14	minimum elong	1998 May 31 j 01:56	13°♊49'25	0°59'17
	1997 Jun 16 j 03:36	0°♋		max. Earth dist.	1998 May 31 j 22:47	15°♊43'35	1.32533 AU
max. Earth dist.	1997 Jun 17 j 13:20	3°♋01'32	1.33176 AU	evening rise	1998 Jun 07 j 05:10	29°♊08'40	
evening rise	1997 Jun 23 j 01:48	14°♋33'32			1998 Jun 07 j 15:06	0°♌	
	1997 Jul 01 j 04:03	0°♌			1998 Jun 24 j 08:26	0°♍	
desc. node	1997 Jul 16 j 06:07	23°♌36'41		desc. node	1998 Jul 03 j 03:09	11°♌55'42	
	1997 Jul 21 j 08:44	0°♎		evening max el	1998 Jul 08 j 16:06	17°♌53'12	27°10'18
evening max el	1997 Jul 26 j 09:04	5°♎18'37	27°25'48	retrograde	1998 Jul 22 j 13:07	25°♌08'41	
retrograde	1997 Aug 09 j 01:18	12°♎37'22		evening set	1998 Jul 29 j 15:28	22°♌50'36	
evening set	1997 Aug 16 j 05:55	9°♎59'16		min. Earth dist.	1998 Aug 02 j 06:20	20°♌05'27	0.61609 AU
min. Earth dist.	1997 Aug 19 j 20:53	6°♎50'18	0.63470 AU	inferior conj	1998 Aug 05 j 08:49	17°♌19'14	-4°17'40
inferior conj	1997 Aug 22 j 12:16	4°♎10'20	-3°32'48	minimum elong	1998 Aug 05 j 13:32	17°♌08'40	4°16'46
minimum elong	1997 Aug 22 j 17:16	3°♎57'42	3°31'22	morning rise	1998 Aug 12 j 13:09	12°♌23'00	
	1997 Aug 27 j 05:11	30°♒♌		direct	1998 Aug 14 j 23:58	11°♌57'43	
morning rise	1997 Aug 29 j 05:47	28°♌53'58		asc. node	1998 Aug 21 j 03:15	14°♌41'13	
direct	1997 Aug 31 j 18:25	28°♌23'08		morning max el	1998 Aug 21 j 23:05	15°♌27'03	17°57'05
asc. node	1997 Sep 03 j 06:10	28°♌53'38			1998 Sep 01 j 01:23	0°♎	
	1997 Sep 05 j 05:38	0°♎		morning set	1998 Sep 06 j 21:15	10°♎29'45	
morning max el	1997 Sep 07 j 08:36	1°♎48'52	17°53'06				
morning set	1997 Sep 23 j 23:09	27°♎26'21		superior conj	1998 Sep 17 j 08:36	29°♎17'06	1°13'50
	1997 Sep 25 j 10:27	0°♏		minimum elong	1998 Sep 17 j 13:17	29°♎37'28	1°13'17
					1998 Sep 17 j 18:29	0°♏	

max. Earth dist.	998 Sep 24 j 19:48	11°♌55'41	1.42491 AU	superior conj	999 Aug 30 j 14:21	11°♏35'25	1°34'54
desc. node	998 Sep 29 j 02:27	18°♌52'36		minimum elong	999 Aug 30 j 17:34	11°♏50'09	1°34'40
evening rise	998 Oct 01 j 08:55	22°♌29'07		max. Earth dist.	999 Sep 07 j 03:01	24°♏57'19	1.40604 AU
	998 Oct 06 j 04:48	0°♌			999 Sep 10 j 02:29	0°♌	
	998 Oct 27 j 03:57	0°♌		evening rise	999 Sep 11 j 17:17	2°♌41'00	
evening max el	998 Nov 02 j 13:33	7°♌26'26	22°02'46	desc. node	999 Sep 15 j 23:28	9°♌34'39	
retrograde	998 Nov 11 j 21:25	12°♌59'17			999 Sep 29 j 12:57	0°♌	
evening set	998 Nov 16 j 07:32	11°♌13'33		evening max el	999 Oct 16 j 04:23	20°♌58'25	23°22'17
asc. node	998 Nov 17 j 02:29	10°♌31'59		retrograde	999 Oct 26 j 15:00	27°♌09'12	
inferior conj	998 Nov 21 j 15:55	4°♌55'18	1°31'03	evening set	999 Oct 31 j 14:12	25°♌05'53	
minimum elong	998 Nov 21 j 13:59	5°♌02'00	1°30'18	asc. node	999 Nov 03 j 23:32	21°♌23'48	
min. Earth dist.	998 Nov 21 j 16:48	4°♌52'14	0.67709 AU	inferior conj	999 Nov 05 j 23:09	18°♌43'27	0°40'44
	998 Nov 25 j 12:30	30°♌		minimum elong	999 Nov 05 j 22:12	18°♌46'42	0°40'20
morning rise	998 Nov 26 j 20:17	28°♌43'30		min. Earth dist.	999 Nov 05 j 13:26	19°♌16'46	0.67718 AU
direct	998 Dec 01 j 15:29	26°♌42'31		morning rise	999 Nov 11 j 06:08	12°♌35'12	
	998 Dec 08 j 16:53	0°♌		direct	999 Nov 15 j 10:55	10°♌57'01	
morning max el	998 Dec 11 j 08:46	2°♌27'42	22°37'42	morning max el	999 Nov 24 j 00:31	15°♌56'54	21°14'49
desc. node	998 Dec 26 j 01:41	21°♌02'42			999 Dec 05 j 06:20	0°♌	
	999 Jan 01 j 05:06	0°♌		desc. node	999 Dec 12 j 22:42	11°♌06'34	
morning set	999 Jan 14 j 08:09	20°♌32'44		morning set	999 Dec 24 j 19:50	29°♌16'17	
max. Earth dist.	999 Jan 19 j 06:22	28°♌46'43	1.40333 AU		999 Dec 25 j 06:56	0°♌	
	999 Jan 19 j 23:32	0°♌		max. Earth dist.	1000 Jan 01 j 08:32	11°♌21'22	1.42320 AU
superior conj	999 Jan 27 j 01:26	12°♌28'29	-1°59'36	superior conj	1000 Jan 08 j 15:09	23°♌33'25	-2°03'03
minimum elong	999 Jan 27 j 04:00	12°♌40'05	1°59'29	minimum elong	1000 Jan 08 j 13:56	23°♌28'15	2°03'02
	999 Feb 05 j 11:13	0°♌			1000 Jan 12 j 08:14	0°♌	
evening rise	999 Feb 05 j 23:31	0°♌58'11		evening rise	1000 Jan 19 j 22:55	13°♌36'30	
asc. node	999 Feb 13 j 01:49	14°♌02'39			1000 Jan 29 j 06:45	0°♌	
evening max el	999 Feb 22 j 04:53	26°♌58'28	18°23'13	asc. node	1000 Jan 30 j 22:51	2°♌38'35	
	999 Feb 26 j 13:19	0°♌		evening max el	1000 Feb 05 j 15:06	9°♌57'17	18°08'10
retrograde	999 Mar 01 j 13:05	0°♌36'15		retrograde	1000 Feb 12 j 07:50	13°♌22'45	
evening set	999 Mar 04 j 00:15	0°♌12'49		evening set	1000 Feb 15 j 00:00	12°♌50'15	
	999 Mar 04 j 15:03	30°♌		inferior conj	1000 Feb 21 j 15:17	7°♌53'22	3°38'47
inferior conj	999 Mar 11 j 06:40	25°♌36'54	3°05'34	minimum elong	1000 Feb 21 j 16:59	7°♌49'16	3°38'37
minimum elong	999 Mar 11 j 10:20	25°♌29'19	3°04'50	min. Earth dist.	1000 Feb 24 j 19:33	4°♌52'16	0.61030 AU
min. Earth dist.	999 Mar 14 j 17:10	22°♌47'50	0.58907 AU	morning rise	1000 Feb 28 j 08:16	2°♌03'00	
morning rise	999 Mar 18 j 17:52	20°♌05'30			1000 Mar 03 j 23:25	30°♌	
desc. node	999 Mar 24 j 00:53	18°♌26'26		direct	1000 Mar 06 j 03:21	29°♌46'19	
direct	999 Mar 24 j 22:33	18°♌24'18			1000 Mar 08 j 08:29	0°♌	
morning max el	999 Apr 08 j 06:58	26°♌06'22	27°01'37	desc. node	1000 Mar 09 j 21:54	0°♌25'14	
	999 Apr 11 j 22:47	0°♌		morning max el	1000 Mar 20 j 08:24	7°♌38'13	27°42'11
	999 May 01 j 16:22	0°♌			1000 Apr 06 j 08:41	0°♌	
morning set	999 May 08 j 14:14	13°♌42'57		morning set	1000 Apr 21 j 20:12	28°♌18'59	
asc. node	999 May 12 j 01:07	21°♌04'41			1000 Apr 22 j 15:44	0°♌	
superior conj	999 May 15 j 15:58	28°♌59'50	0°37'29	asc. node	1000 Apr 27 j 22:09	11°♌14'43	
minimum elong	999 May 15 j 14:23	28°♌51'09	0°37'10	max. Earth dist.	1000 Apr 27 j 22:56	11°♌19'03	1.32371 AU
max. Earth dist.	999 May 15 j 11:21	28°♌34'24	1.32266 AU	superior conj	1000 Apr 29 j 02:59	13°♌52'07	0°12'42
	999 May 16 j 02:54	0°♌		minimum elong	1000 Apr 29 j 02:24	13°♌48'56	0°12'34
evening rise	999 May 22 j 13:27	13°♌57'05		behind sun begin	1000 Apr 28 j 23:17	13°♌31'57	
	999 May 30 j 16:22	0°♌		behind sun end	1000 Apr 29 j 05:30	14°♌05'56	
desc. node	999 Jun 20 j 00:10	29°♌03'00		evening rise	1000 May 06 j 00:26	28°♌50'15	
evening max el	999 Jun 20 j 16:46	29°♌43'17	26°21'43		1000 May 06 j 13:38	0°♌	
	999 Jun 20 j 23:51	0°♌			1000 May 23 j 09:22	0°♌	
retrograde	999 Jul 04 j 16:37	6°♌55'45		evening max el	1000 Jun 01 j 10:19	10°♌47'23	25°05'01
evening set	999 Jul 11 j 05:08	5°♌10'03		desc. node	1000 Jun 05 j 21:11	14°♌28'53	
min. Earth dist.	999 Jul 15 j 05:44	2°♌33'29	0.59566 AU	retrograde	1000 Jun 15 j 10:17	17°♌54'36	
inferior conj	999 Jul 18 j 13:35	29°♌58'25	-4°46'40	evening set	1000 Jun 20 j 19:30	16°♌47'55	
minimum elong	999 Jul 18 j 16:02	29°♌53'38	4°46'29	min. Earth dist.	1000 Jun 25 j 21:54	14°♌01'24	0.57565 AU
	999 Jul 18 j 12:47	30°♌		inferior conj	1000 Jun 28 j 23:16	11°♌57'46	-4°48'22
morning rise	999 Jul 26 j 05:01	25°♌24'50		minimum elong	1000 Jun 28 j 21:12	12°♌01'17	4°48'15
direct	999 Jul 28 j 16:26	25°♌03'08		morning rise	1000 Jul 07 j 01:37	7°♌46'23	
morning max el	999 Aug 05 j 08:59	28°♌45'34	18°20'44	direct	1000 Jul 09 j 15:19	7°♌26'59	
	999 Aug 06 j 14:03	0°♌		morning max el	1000 Jul 18 j 11:15	11°♌34'55	19°05'12
asc. node	999 Aug 08 j 00:19	1°♌40'05		asc. node	1000 Jul 24 j 21:21	19°♌34'52	
morning set	999 Aug 21 j 09:12	24°♌13'18			1000 Jul 30 j 22:29	0°♌	
	999 Aug 24 j 09:53	0°♌		morning set	1000 Aug 04 j 06:56	8°♌25'51	


































































































































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	1000 Aug 15 j 07:53	0°♎		morning set	1001 Jul 19 j 11:20	22°♊58'54	
max. Earth dist.	1000 Aug 19 j 06:21	7°♎15'32	1.38563 AU		1001 Jul 22 j 21:34	0°♎	
evening rise	1000 Aug 23 j 02:08	14°♎02'01					
desc. node	1000 Sep 01 j 20:29	0°♏08'36		superior conj	1001 Jul 27 j 04:35	8°♎44'50	1°45'53
	1000 Sep 01 j 18:18	0°♏		minimum elong	1001 Jul 27 j 04:01	8°♎41'57	1°45'52
	1000 Sep 23 j 10:26	0°♏		max. Earth dist.	1001 Aug 01 j 11:22	19°♎07'48	1.36630 AU
evening max el	1000 Sep 27 j 16:33	4°♏34'11	24°41'13	evening rise	1001 Aug 05 j 09:22	26°♎27'18	
retrograde	1000 Oct 09 j 04:49	11°♏17'03			1001 Aug 07 j 08:29	0°♎	
evening set	1000 Oct 14 j 18:11	8°♏56'48		desc. node	1001 Aug 19 j 17:31	20°♎29'06	
min. Earth dist.	1000 Oct 19 j 08:50	3°♏41'27	0.67400 AU		1001 Aug 26 j 05:02	0°♏	
inferior conj	1000 Oct 20 j 05:02	2°♏34'14	-0°13'24	evening max el	1001 Sep 10 j 04:16	18°♏12'44	25°52'18
minimum elong	1000 Oct 20 j 05:22	2°♏33'08	0°13'16	retrograde	1001 Sep 22 j 13:59	25°♏17'19	
transit middle	1000 Oct 20 j 05:22	2°♏33'08	0°13'16	evening set	1001 Sep 28 j 17:39	22°♏42'53	
transit begin	1000 Oct 20 j 03:47	2°♏38'25		min. Earth dist.	1001 Oct 03 j 00:35	18°♏03'09	0.66755 AU
transit end	1000 Oct 20 j 06:57	2°♏27'51		inferior conj	1001 Oct 04 j 07:48	16°♏24'33	-1°09'59
asc. node	1000 Oct 20 j 20:34	1°♏42'49		minimum elong	1001 Oct 04 j 09:36	16°♏18'51	1°09'13
	1000 Oct 22 j 04:47	30°♏		asc. node	1001 Oct 07 j 17:36	12°♏25'48	
morning rise	1000 Oct 25 j 16:39	26°♏31'55		morning rise	1001 Oct 10 j 01:51	10°♏30'54	
direct	1000 Oct 29 j 08:38	25°♏14'37		direct	1001 Oct 13 j 07:08	9°♏31'11	
morning max el	1000 Nov 05 j 23:50	29°♏37'00	20°02'53	morning max el	1001 Oct 20 j 06:31	13°♏25'52	19°05'17
	1000 Nov 06 j 08:49	0°♏			1001 Nov 01 j 12:57	0°♏	
	1000 Nov 27 j 20:43	0°♏		morning set	1001 Nov 11 j 22:04	16°♏06'41	
desc. node	1000 Nov 28 j 19:43	1°♏27'56		desc. node	1001 Nov 15 j 16:45	22°♏01'21	
morning set	1000 Dec 02 j 16:10	7°♏23'28			1001 Nov 20 j 19:02	0°♏	
max. Earth dist.	1000 Dec 13 j 17:58	24°♏46'18	1.43889 AU	max. Earth dist.	1001 Nov 26 j 09:24	8°♏47'39	1.44849 AU
	1000 Dec 17 j 00:01	0°♏					
superior conj	1000 Dec 19 j 02:40	3°♏25'52	-1°50'18	superior conj	1001 Nov 28 j 13:48	12°♏14'21	-1°18'47
minimum elong	1000 Dec 18 j 20:18	2°♏59'52	1°49'52	minimum elong	1001 Nov 28 j 05:17	11°♏40'43	1°17'52
evening rise	1001 Jan 01 j 04:36	25°♏24'54			1001 Dec 09 j 16:05	0°♏	
	1001 Jan 03 j 20:30	0°♏		evening rise	1001 Dec 13 j 12:23	6°♏16'13	
asc. node	1001 Jan 16 j 19:52	20°♏33'39			1001 Dec 28 j 09:28	0°♏	
evening max el	1001 Jan 19 j 03:32	23°♏11'33	18°12'29	evening max el	1002 Jan 02 j 15:27	6°♏34'36	18°35'19
retrograde	1001 Jan 25 j 14:55	26°♏38'19		asc. node	1002 Jan 03 j 16:54	7°♏35'34	
evening set	1001 Jan 28 j 11:54	25°♏55'40		retrograde	1002 Jan 09 j 06:04	10°♏14'13	
inferior conj	1001 Feb 03 j 15:44	20°♏38'50	3°46'50	evening set	1002 Jan 12 j 08:27	9°♏20'20	
minimum elong	1001 Feb 03 j 15:24	20°♏39'43	3°46'50	inferior conj	1002 Jan 18 j 04:01	3°♏45'12	3°36'31
min. Earth dist.	1001 Feb 06 j 06:53	17°♏48'58	0.63040 AU	minimum elong	1002 Jan 18 j 02:14	3°♏50'31	3°36'19
morning rise	1001 Feb 09 j 17:57	14°♏37'26		min. Earth dist.	1002 Jan 20 j 03:42	1°♏23'29	0.64752 AU
direct	1001 Feb 16 j 17:20	11°♏55'37			1002 Jan 21 j 09:15	30°♏	
desc. node	1001 Feb 24 j 18:55	14°♏53'19		morning rise	1002 Jan 23 j 19:33	27°♏37'30	
morning max el	1001 Mar 02 j 15:02	19°♏50'08	27°45'30	direct	1002 Jan 30 j 14:37	24°♏45'30	
	1001 Mar 11 j 08:01	0°♏			1002 Feb 10 j 06:59	0°♏	
	1001 Mar 30 j 07:21	0°♏		desc. node	1002 Feb 11 j 15:57	1°♏14'37	
morning set	1001 Apr 05 j 20:12	12°♏33'51		morning max el	1002 Feb 13 j 00:16	2°♏33'08	27°13'58
max. Earth dist.	1001 Apr 11 j 05:37	23°♏44'17	1.32871 AU		1002 Mar 05 j 14:23	0°♏	
				morning set	1002 Mar 20 j 11:20	26°♏18'08	
superior conj	1001 Apr 13 j 11:29	28°♏32'51	-0°13'55		1002 Mar 22 j 08:27	0°♏	
minimum elong	1001 Apr 13 j 12:09	28°♏36'28	0°13'46	max. Earth dist.	1002 Mar 25 j 03:33	5°♏38'49	1.33801 AU
behind sun begin	1001 Apr 13 j 09:31	28°♏22'14					
behind sun end	1001 Apr 13 j 14:48	28°♏50'43		superior conj	1002 Mar 28 j 15:33	12°♏55'43	-0°41'19
	1001 Apr 14 j 03:37	0°♏		minimum elong	1002 Mar 28 j 17:35	13°♏06'27	0°40'55
asc. node	1001 Apr 14 j 19:10	1°♏24'07		asc. node	1002 Apr 01 j 16:13	21°♏28'50	
evening rise	1001 Apr 20 j 12:15	13°♏41'57		evening rise	1002 Apr 04 j 23:04	28°♏25'54	
	1001 Apr 28 j 18:04	0°♏			1002 Apr 05 j 17:07	0°♏	
evening max el	1001 May 14 j 00:25	21°♏22'53	23°31'57		1002 Apr 23 j 19:56	0°♏	
desc. node	1001 May 23 j 18:12	27°♏37'45		evening max el	1002 Apr 25 j 18:03	1°♏59'25	21°57'29
retrograde	1001 May 27 j 15:53	28°♏12'25		retrograde	1002 May 08 j 09:16	8°♏11'28	
evening set	1001 May 31 j 13:32	27°♏38'56		desc. node	1002 May 10 j 15:12	8°♏00'11	
min. Earth dist.	1001 Jun 07 j 10:48	24°♏27'44	0.55948 AU	evening set	1002 May 11 j 01:20	7°♏55'37	
inferior conj	1001 Jun 09 j 12:55	23°♏12'54	-4°09'19	inferior conj	1002 May 20 j 11:06	3°♏50'59	-2°43'41
minimum elong	1001 Jun 09 j 06:14	23°♏22'55	4°08'00	minimum elong	1002 May 20 j 04:06	4°♏00'48	2°41'30
morning rise	1001 Jun 18 j 01:38	19°♏16'51		min. Earth dist.	1002 May 19 j 23:06	4°♏07'49	0.55051 AU
direct	1001 Jun 20 j 18:53	18°♏58'29		morning rise	1002 May 29 j 08:12	29°♏56'29	
morning max el	1001 Jul 01 j 03:15	23°♏45'53	20°10'47		1002 May 29 j 02:01	30°♏	
				direct	1002 Jun 01 j 08:24	29°♏36'22	

	1002 Jun 04 j 12:42	0° II		direct	1003 May 12 j 19:10	9° 8 34'14	
morning max el	1002 Jun 13 j 07:55	5° II 13'36	21°35'46	morning max el	1003 May 26 j 03:04	16° 8 02'01	23°14'25
asc. node	1002 Jun 28 j 15:27	27° II 23'21			1003 Jun 06 j 03:50	0° II	
	1002 Jun 29 j 23:53	0° ☿		asc. node	1003 Jun 15 j 12:31	16° II 57'35	
morning set	1002 Jul 03 j 20:08	7° ☿ 46'36		morning set	1003 Jun 18 j 07:21	22° II 42'01	
					1003 Jun 21 j 17:38	0° ☿	
superior conj	1002 Jul 11 j 03:52	23° ☿ 09'07	1°39'39				
minimum elong	1002 Jul 11 j 02:07	22° ☿ 59'56	1°39'31	superior conj	1003 Jun 25 j 09:29	7° ☿ 52'10	1°27'39
	1002 Jul 14 j 11:43	0° ♊		minimum elong	1003 Jun 25 j 07:07	7° ☿ 39'33	1°27'22
max. Earth dist.	1002 Jul 14 j 23:57	1° ♊ 01'54	1.34992 AU	max. Earth dist.	1003 Jun 27 j 22:00	13° ☿ 13'39	1.33726 AU
evening rise	1002 Jul 19 j 10:22	9° ♊ 45'00		evening rise	1003 Jul 03 j 00:25	23° ☿ 41'04	
	1002 Jul 30 j 20:36	0° ♋			1003 Jul 06 j 06:23	0° ♊	
desc. node	1002 Aug 06 j 14:34	10° ♋ 29'50		desc. node	1003 Jul 24 j 11:36	0° ♋ 01'20	
	1002 Aug 21 j 21:03	0° ♌			1003 Jul 24 j 11:13	0° ♋	
evening max el	1002 Aug 23 j 16:31	1° ♌ 48'43	26°47'39	evening max el	1003 Aug 06 j 04:17	15° ♋ 10'25	27°19'57
retrograde	1002 Sep 05 j 17:51	9° ♌ 04'06		retrograde	1003 Aug 19 j 15:55	22° ♋ 28'54	
evening set	1002 Sep 12 j 10:32	6° ♌ 20'51		evening set	1003 Aug 26 j 18:06	19° ♋ 45'25	
min. Earth dist.	1002 Sep 16 j 10:18	2° ♌ 17'59	0.65767 AU	min. Earth dist.	1003 Aug 30 j 11:35	16° ♋ 18'26	0.64418 AU
inferior conj	1002 Sep 18 j 05:28	0° ♌ 11'05	-2°07'13	inferior conj	1003 Sep 01 j 19:39	13° ♋ 48'07	-3°02'50
minimum elong	1002 Sep 18 j 08:46	0° ♌ 01'20	2°05'56	minimum elong	1003 Sep 02 j 00:13	13° ♋ 35'51	3°01'19
	1002 Sep 18 j 09:13	30° ♋ 00'		morning rise	1003 Sep 08 j 07:15	8° ♋ 21'39	
morning rise	1002 Sep 24 j 07:35	24° ♋ 29'17		direct	1003 Sep 10 j 22:16	7° ♋ 46'13	
asc. node	1002 Sep 24 j 14:37	24° ♋ 20'28		asc. node	1003 Sep 11 j 11:42	7° ♋ 47'50	
direct	1002 Sep 27 j 04:32	23° ♋ 43'28		morning max el	1003 Sep 17 j 10:25	11° ♋ 13'10	17°59'12
morning max el	1002 Oct 03 j 18:53	27° ♋ 19'54	18°23'45		1003 Sep 30 j 06:45	0° ♌	
	1002 Oct 06 j 03:50	0° ♌		morning set	1003 Oct 04 j 19:37	7° ♌ 40'41	
morning set	1002 Oct 23 j 06:43	26° ♌ 12'30					
	1002 Oct 25 j 15:03	0° ♍		superior conj	1003 Oct 18 j 03:03	29° ♌ 44'57	0°15'31
desc. node	1002 Nov 02 j 13:50	12° ♍ 43'07		minimum elong	1003 Oct 18 j 04:51	29° ♌ 52'12	0°15'15
				behind sun begin	1003 Oct 18 j 01:21	29° ♌ 38'05	
superior conj	1002 Nov 07 j 14:41	20° ♍ 40'37	-0°32'59	behind sun end	1003 Oct 18 j 08:20	0° ♍ 06'18	
minimum elong	1002 Nov 07 j 10:22	20° ♍ 23'40	0°32'24		1003 Oct 18 j 06:47	0° ♍	
max. Earth dist.	1002 Nov 09 j 04:18	23° ♍ 08'36	1.45088 AU	desc. node	1003 Oct 20 j 10:54	3° ♍ 29'19	
	1002 Nov 13 j 13:09	0° ♎		max. Earth dist.	1003 Oct 22 j 23:07	7° ♍ 29'08	1.44579 AU
evening rise	1002 Nov 23 j 20:43	16° ♎ 11'01		evening rise	1003 Nov 03 j 10:07	25° ♍ 22'26	
	1002 Dec 02 j 16:04	0° ♏			1003 Nov 06 j 10:21	0° ♎	
greatest brilliancy	1002 Dec 04 j 06:41	2° ♏ 29'44	-0.8m	greatest brilliancy	1003 Nov 17 j 14:38	16° ♎ 52'43	-0.6m
evening max el	1002 Dec 17 j 00:34	20° ♏ 02'12	19°15'23		1003 Nov 27 j 02:36	0° ♏	
asc. node	1002 Dec 21 j 13:55	23° ♏ 30'38		evening max el	1003 Nov 30 j 05:00	3° ♏ 31'28	20°10'57
retrograde	1002 Dec 24 j 01:53	24° ♏ 04'49		retrograde	1003 Dec 07 j 23:39	8° ♏ 05'31	
evening set	1002 Dec 27 j 10:51	22° ♏ 58'25		asc. node	1003 Dec 08 j 10:57	8° ♏ 04'16	
inferior conj	1003 Jan 02 j 00:47	17° ♏ 07'08	3°12'50	evening set	1003 Dec 11 j 16:50	6° ♏ 45'06	
minimum elong	1003 Jan 01 j 22:14	17° ♏ 15'18	3°12'17	inferior conj	1003 Dec 17 j 03:15	0° ♏ 40'33	2°39'10
min. Earth dist.	1003 Jan 03 j 09:26	15° ♏ 22'37	0.66078 AU	minimum elong	1003 Dec 17 j 00:33	0° ♏ 49'37	2°38'22
morning rise	1003 Jan 07 j 09:22	10° ♏ 55'48			1003 Dec 17 j 15:17	30° ♏ 00'	
direct	1003 Jan 13 j 18:02	8° ♏ 07'38		min. Earth dist.	1003 Dec 17 j 22:23	29° ♏ 36'08	0.66999 AU
morning max el	1003 Jan 26 j 09:46	15° ♏ 36'16	26°14'16	morning rise	1003 Dec 22 j 08:05	24° ♏ 27'24	
desc. node	1003 Jan 29 j 13:00	18° ♏ 57'44		direct	1003 Dec 28 j 02:55	21° ♏ 53'24	
	1003 Feb 07 j 06:58	0° ♐		morning max el	1004 Jan 08 j 18:31	28° ♏ 49'57	24°55'39
	1003 Feb 26 j 10:12	0° ♑			1004 Jan 09 j 21:37	0° ♏	
morning set	1003 Mar 03 j 13:46	9° ♑ 19'59		desc. node	1004 Jan 16 j 10:04	7° ♏ 39'00	
max. Earth dist.	1003 Mar 07 j 14:12	17° ♑ 00'24	1.35194 AU		1004 Feb 01 j 02:00	0° ♐	
				morning set	1004 Feb 13 j 22:25	21° ♐ 25'27	
superior conj	1003 Mar 12 j 12:48	26° ♑ 53'05	-1°08'13	max. Earth dist.	1004 Feb 17 j 14:21	28° ♐ 04'03	1.37009 AU
minimum elong	1003 Mar 12 j 16:06	27° ♑ 09'54	1°07'40		1004 Feb 18 j 15:20	0° ♑	
	1003 Mar 14 j 01:15	0° ♒					
asc. node	1003 Mar 19 j 13:16	11° ♒ 24'08		superior conj	1004 Feb 24 j 00:15	10° ♑ 17'02	-1°32'43
evening rise	1003 Mar 20 j 06:59	12° ♒ 55'22		minimum elong	1004 Feb 24 j 04:18	10° ♑ 36'51	1°32'13
	1003 Mar 29 j 05:16	0° ♓		evening rise	1004 Mar 03 j 09:45	27° ♑ 04'01	
evening max el	1003 Apr 07 j 21:03	13° ♓ 01'51	20°33'39		1004 Mar 04 j 21:04	0° ♒	
retrograde	1003 Apr 18 j 22:14	18° ♓ 22'39		asc. node	1004 Mar 05 j 10:19	1° ♒ 05'31	
evening set	1003 Apr 21 j 00:57	18° ♓ 11'43		evening max el	1004 Mar 20 j 11:33	24° ♒ 42'53	19°27'18
desc. node	1003 Apr 27 j 12:13	15° ♓ 45'38		retrograde	1004 Mar 29 j 19:53	29° ♒ 13'11	
inferior conj	1003 Apr 30 j 05:28	14° ♓ 14'04	-0°47'12	evening set	1004 Mar 31 j 22:28	29° ♒ 00'27	
minimum elong	1003 Apr 30 j 03:14	14° ♓ 17'17	0°46'24	inferior conj	1004 Apr 09 j 10:33	24° ♒ 54'09	1°06'36
min. Earth dist.	1003 May 01 j 11:57	13° ♓ 30'04	0.55084 AU	minimum elong	1004 Apr 09 j 13:14	24° ♒ 49'48	1°05'43
morning rise	1003 May 09 j 04:33	10° ♓ 02'20		min. Earth dist.	1004 Apr 12 j 02:29	23° ♒ 10'57	0.56052 AU

desc. node	1004 Apr 13 j 09:15	22° Υ 23'57		morning rise	1005 Mar 29 j 09:21	0° Υ 53'47	
morning rise	1004 Apr 18 j 01:15	20° Υ 10'14		desc. node	1005 Mar 31 j 06:17	0° Υ 10'00	
direct	1004 Apr 22 j 15:09	19° Υ 22'43			1005 Mar 31 j 19:56	30° \Re \Re	
morning max el	1004 May 06 j 17:53	26° Υ 31'10	24°55'12	direct	1005 Apr 04 j 01:24	29° \Re 33'50	
	1004 May 10 j 01:48	0° \mathcal{B}			1005 Apr 07 j 07:45	0° Υ	
	1004 May 29 j 01:46	0° Π		morning max el	1005 Apr 18 j 10:06	7° Υ 08'00	26°22'50
asc. node	1004 Jun 01 j 09:37	6° Π 48'42			1005 May 05 j 09:59	0° \mathcal{B}	
morning set	1004 Jun 01 j 19:17	7° Π 39'34		morning set	1005 May 17 j 06:16	22° \mathcal{B} 33'30	
				asc. node	1005 May 19 j 06:40	26° \mathcal{B} 50'50	
					1005 May 20 j 17:39	0° Π	
superior conj	1004 Jun 08 j 19:00	22° Π 46'14	1°11'01				
minimum elong	1004 Jun 08 j 16:35	22° Π 33'05	1°10'38				
max. Earth dist.	1004 Jun 10 j 04:02	25° Π 45'41	1.32853 AU	superior conj	1005 May 24 j 06:28	7° Π 44'30	0°50'38
	1004 Jun 12 j 03:17	0° \mathfrak{S}		minimum elong	1005 May 24 j 04:28	7° Π 33'31	0°50'15
evening rise	1004 Jun 15 j 23:47	8° \mathfrak{S} 04'24		max. Earth dist.	1005 May 24 j 15:00	8° Π 31'25	1.32366 AU
	1004 Jun 27 j 16:52	0° Ω		evening rise	1005 May 31 j 05:29	22° Π 45'41	
desc. node	1004 Jul 10 j 08:36	18° Ω 51'25			1005 Jun 03 j 18:45	0° \mathfrak{S}	
evening max el	1004 Jul 18 j 13:31	28° Ω 04'57	27°23'08		1005 Jun 21 j 18:33	0° Ω	
	1004 Jul 20 j 16:48	0° \mathfrak{M}		desc. node	1005 Jun 27 j 05:36	6° Ω 42'57	
retrograde	1004 Aug 01 j 07:52	5° \mathfrak{M} 22'43		evening max el	1005 Jun 30 j 17:55	10° Ω 20'58	26°53'35
evening set	1004 Aug 08 j 12:55	2° \mathfrak{M} 51'03		retrograde	1005 Jul 14 j 16:44	17° Ω 36'10	
min. Earth dist.	1004 Aug 12 j 02:52	29° Ω 54'04	0.62716 AU	evening set	1005 Jul 21 j 14:40	15° Ω 30'24	
	1004 Aug 12 j 00:18	30° \Re Ω		min. Earth dist.	1005 Jul 25 j 07:57	12° Ω 51'03	0.60743 AU
inferior conj	1004 Aug 14 j 23:32	27° Ω 09'23	-3°53'12	inferior conj	1005 Jul 28 j 13:49	10° Ω 06'53	-4°32'33
minimum elong	1004 Aug 15 j 04:36	26° Ω 57'11	3°51'57	minimum elong	1005 Jul 28 j 17:51	9° Ω 58'18	4°31'58
morning rise	1004 Aug 21 j 21:39	22° Ω 01'31		morning rise	1005 Aug 04 j 22:54	5° Ω 20'18	
direct	1004 Aug 24 j 09:11	21° Ω 33'23		direct	1005 Aug 07 j 09:32	4° Ω 56'55	
asc. node	1004 Aug 28 j 08:47	22° Ω 47'36		morning max el	1005 Aug 14 j 15:11	8° Ω 30'48	18°04'41
morning max el	1004 Aug 31 j 02:12	24° Ω 59'20	17°52'29	asc. node	1005 Aug 15 j 05:52	9° Ω 07'38	
	1004 Sep 04 j 05:23	0° \mathfrak{M}			1005 Aug 28 j 13:20	0° \mathfrak{M}	
morning set	1004 Sep 16 j 07:20	20° \mathfrak{M} 14'08		morning set	1005 Aug 30 j 11:58	3° \mathfrak{M} 36'30	
	1004 Sep 21 j 19:57	0° \mathfrak{L}					
superior conj	1004 Sep 27 j 16:48	10° \mathfrak{L} 05'06	0°56'02	superior conj	1005 Sep 09 j 09:17	21° \mathfrak{M} 44'19	1°24'13
minimum elong	1004 Sep 27 j 21:27	10° \mathfrak{L} 24'43	0°55'26	minimum elong	1005 Sep 09 j 13:30	22° \mathfrak{M} 03'04	1°23'49
max. Earth dist.	1004 Oct 04 j 14:17	21° \mathfrak{L} 28'47	1.43404 AU		1005 Sep 14 j 02:49	0° \mathfrak{L}	
desc. node	1004 Oct 06 j 07:55	24° \mathfrak{L} 16'28		max. Earth dist.	1005 Sep 17 j 00:07	4° \mathfrak{L} 53'27	1.41718 AU
	1004 Oct 09 j 22:25	0° \mathfrak{M}		evening rise	1005 Sep 22 j 13:59	14° \mathfrak{L} 01'59	
evening rise	1004 Oct 12 j 17:59	4° \mathfrak{M} 24'04		desc. node	1005 Sep 23 j 04:56	15° \mathfrak{L} 01'47	
	1004 Oct 29 j 20:57	0° \mathfrak{J}			1005 Oct 02 j 21:20	0° \mathfrak{M}	
evening max el	1004 Nov 12 j 03:40	17° \mathfrak{J} 00'37	21°19'18	evening max el	1005 Oct 25 j 08:39	0° \mathfrak{J}	
retrograde	1004 Nov 20 j 21:06	22° \mathfrak{J} 11'54			1005 Oct 25 j 21:03	0° \mathfrak{J} 31'46	22°36'15
asc. node	1004 Nov 24 j 08:00	21° \mathfrak{J} 05'17		retrograde	1005 Nov 04 j 16:30	6° \mathfrak{J} 21'33	
evening set	1004 Nov 25 j 00:25	20° \mathfrak{J} 35'52		evening set	1005 Nov 09 j 07:52	4° \mathfrak{J} 28'37	
inferior conj	1004 Nov 30 j 09:04	14° \mathfrak{J} 21'26	1°57'45	asc. node	1005 Nov 11 j 05:03	2° \mathfrak{J} 37'51	
minimum elong	1004 Nov 30 j 06:44	14° \mathfrak{J} 29'30	1°56'54		1005 Nov 13 j 07:39	30° \Re \mathfrak{M}	
min. Earth dist.	1004 Nov 30 j 16:18	13° \mathfrak{J} 56'30	0.67546 AU	inferior conj	1005 Nov 14 j 16:20	28° \mathfrak{M} 08'01	1°10'18
morning rise	1004 Dec 05 j 12:54	8° \mathfrak{J} 08'22		minimum elong	1005 Nov 14 j 14:46	28° \mathfrak{M} 13'25	1°09'39
direct	1004 Dec 10 j 16:39	5° \mathfrak{J} 54'31		min. Earth dist.	1005 Nov 14 j 12:43	28° \mathfrak{M} 20'32	0.67752 AU
morning max el	1004 Dec 21 j 03:23	12° \mathfrak{J} 07'49	23°28'08	morning rise	1005 Nov 19 j 21:32	21° \mathfrak{M} 57'10	
desc. node	1005 Jan 02 j 07:06	27° \mathfrak{J} 00'54		direct	1005 Nov 24 j 10:26	20° \mathfrak{M} 05'52	
	1005 Jan 04 j 10:36	0° \mathfrak{Z}		morning max el	1005 Dec 03 j 15:31	25° \mathfrak{M} 31'31	22°01'16
	1005 Jan 23 j 22:15	0° \approx			1005 Dec 07 j 16:04	0° \mathfrak{J}	
morning set	1005 Jan 25 j 06:55	2° \approx 17'05		desc. node	1005 Dec 20 j 04:08	16° \mathfrak{J} 52'09	
max. Earth dist.	1005 Jan 29 j 09:13	9° \approx 19'28	1.39099 AU		1005 Dec 28 j 23:08	0° \mathfrak{Z}	
				morning set	1006 Jan 05 j 10:23	11° \mathfrak{Z} 44'06	
superior conj	1005 Feb 05 j 21:53	22° \approx 56'30	-1°52'09	max. Earth dist.	1006 Jan 11 j 06:48	21° \mathfrak{Z} 19'42	1.41216 AU
minimum elong	1005 Feb 06 j 01:31	23° \approx 13'31	1°51'52		1006 Jan 16 j 08:56	0° \approx	
	1005 Feb 09 j 15:24	0° \Re					
evening rise	1005 Feb 15 j 04:35	10° \Re 43'38		superior conj	1006 Jan 19 j 00:48	4° \approx 39'51	-2°02'46
asc. node	1005 Feb 20 j 07:21	20° \Re 26'56		minimum elong	1006 Jan 19 j 02:04	4° \approx 45'25	2°02'44
	1005 Feb 25 j 22:19	0° Υ		evening rise	1006 Jan 29 j 12:10	23° \approx 46'27	
evening max el	1005 Mar 03 j 12:07	7° Υ 00'42	18°40'50		1006 Feb 01 j 20:58	0° \Re	
retrograde	1005 Mar 11 j 10:41	10° Υ 52'50		asc. node	1006 Feb 07 j 04:22	9° \Re 21'45	
evening set	1005 Mar 13 j 18:28	10° Υ 34'09		evening max el	1006 Feb 14 j 19:48	19° \Re 47'32	18°14'27
inferior conj	1005 Mar 21 j 11:15	6° Υ 10'26	2°32'10	retrograde	1006 Feb 21 j 19:58	23° \Re 17'53	
minimum elong	1005 Mar 21 j 15:26	6° Υ 02'32	2°31'05	evening set	1006 Feb 24 j 09:23	22° \Re 50'44	
min. Earth dist.	1005 Mar 24 j 19:57	3° Υ 39'09	0.57742 AU	inferior conj	1006 Mar 03 j 08:56	18° \Re 06'10	3°23'12
				minimum elong	1006 Mar 03 j 11:51	17° \Re 59'43	3°22'44

min. Earth dist.	1006 Mar 06 j 18:12	15° X 08'39	0.59814 AU	morning rise	1007 Feb 20 j 11:03	24° \approx 40'28	
morning rise	1006 Mar 10 j 12:06	12° X 25'40		direct	1007 Feb 27 j 09:17	22° \approx 11'33	
direct	1006 Mar 17 j 00:25	10° X 28'13		desc. node	1007 Mar 05 j 00:20	23° \approx 38'16	
desc. node	1006 Mar 18 j 03:18	10° X 31'36			1007 Mar 13 j 09:29	0° X	
morning max el	1006 Mar 31 j 07:36	18° X 15'31	27°23'14	morning max el	1007 Mar 13 j 11:20	0° X 04'35	27°48'09
	1006 Apr 10 j 03:47	0° Y			1007 Apr 04 j 03:47	0° Y	
	1006 Apr 28 j 00:13	0° Z		morning set	1007 Apr 15 j 18:19	21° Y 45'58	
morning set	1006 May 01 j 14:35	7° Z 17'44			1007 Apr 19 j 17:00	0° Z	
asc. node	1006 May 06 j 03:41	16° Z 59'08		max. Earth dist.	1007 Apr 21 j 13:33	3° Z 59'05	1.32537 AU
max. Earth dist.	1006 May 08 j 03:26	21° Z 20'09	1.32260 AU				
				superior conj	1007 Apr 23 j 04:18	7° Z 29'12	0°01'36
superior conj	1006 May 08 j 18:07	22° Z 40'42	0°27'14	minimum elong	1007 Apr 23 j 04:13	7° Z 28'47	0°01'35
minimum elong	1006 May 08 j 16:55	22° Z 34'08	0°26'59	behind sun begin	1007 Apr 22 j 23:07	7° Z 01'00	
	1006 May 12 j 02:13	0° II		behind sun end	1007 Apr 23 j 09:19	7° Z 56'36	
evening rise	1006 May 15 j 15:08	7° II 36'44		asc. node	1007 Apr 23 j 00:42	7° Z 09'36	
	1006 May 27 j 07:45	0° III		evening rise	1007 Apr 30 j 02:44	22° Z 30'45	
evening max el	1006 Jun 12 j 15:37	21° III 51'09	25°52'08		1007 May 03 j 17:40	0° II	
desc. node	1006 Jun 14 j 02:36	23° III 11'09			1007 May 22 j 17:03	0° III	
retrograde	1006 Jun 26 j 16:25	29° III 01'57		evening max el	1007 May 25 j 07:13	2° III 40'56	24°26'37
evening set	1006 Jul 02 j 18:35	27° III 33'03		desc. node	1007 May 31 j 23:36	7° III 43'49	
min. Earth dist.	1006 Jul 07 j 04:07	24° III 54'07	0.58683 AU	retrograde	1007 Jun 08 j 04:40	9° III 41'52	
inferior conj	1006 Jul 10 j 10:49	22° III 30'12	-4°51'37	evening set	1007 Jun 12 j 23:18	8° III 50'48	
minimum elong	1006 Jul 10 j 11:34	22° III 28'49	4°51'36	min. Earth dist.	1007 Jun 18 j 18:21	5° III 55'28	0.56814 AU
morning rise	1006 Jul 18 j 06:52	18° III 06'04		inferior conj	1007 Jun 21 j 11:54	4° III 11'10	-4°37'31
direct	1006 Jul 20 j 19:00	17° III 45'30		minimum elong	1007 Jun 21 j 07:38	4° III 18'00	4°37'00
morning max el	1006 Jul 28 j 22:09	21° III 37'41	18°37'04	morning rise	1007 Jun 29 j 18:43	0° III 07'22	
asc. node	1006 Aug 02 j 02:54	26° III 31'46			1007 Jun 30 j 08:44	30° R II	
	1006 Aug 04 j 11:27	0° IV		direct	1007 Jul 02 j 09:59	29° II 48'26	
morning set	1006 Aug 14 j 04:32	17° IV 33'35			1007 Jul 04 j 10:09	0° IV	
	1006 Aug 20 j 14:58	0° V		morning max el	1007 Jul 11 j 20:13	4° IV 11'15	19°30'33
				asc. node	1007 Jul 19 j 23:56	14° IV 46'14	
superior conj	1006 Aug 22 j 23:38	4° V 28'05	1°40'23		1007 Jul 28 j 06:13	0° IV	
minimum elong	1006 Aug 23 j 02:00	4° V 39'07	1°40'15	morning set	1007 Jul 29 j 05:27	1° IV 55'53	
max. Earth dist.	1006 Aug 30 j 05:15	17° V 35'49	1.39739 AU				
evening rise	1006 Sep 03 j 08:46	24° V 43'19		superior conj	1007 Aug 06 j 06:19	18° IV 01'10	1°46'19
	1006 Sep 06 j 13:07	0° VI		minimum elong	1007 Aug 06 j 06:42	18° IV 03'02	1°46'18
desc. node	1006 Sep 10 j 01:57	5° VI 41'01		max. Earth dist.	1007 Aug 12 j 08:59	29° IV 41'38	1.37720 AU
	1006 Sep 26 j 16:03	0° VII			1007 Aug 12 j 12:57	0° VI	
evening max el	1006 Oct 08 j 10:40	14° VII 05'59	23°56'22	evening rise	1007 Aug 16 j 03:39	6° VI 32'36	
retrograde	1006 Oct 19 j 08:29	20° VII 30'55		desc. node	1007 Aug 27 j 22:58	26° VI 09'44	
evening set	1006 Oct 24 j 13:35	18° VII 20'28			1007 Aug 30 j 11:04	0° VII	
asc. node	1006 Oct 29 j 02:05	13° VII 09'13		evening max el	1007 Sep 20 j 22:32	27° VII 43'23	25°12'50
inferior conj	1006 Oct 29 j 23:12	11° VII 57'40	0°18'11		1007 Sep 23 j 09:53	0° VII	
minimum elong	1006 Oct 29 j 22:46	11° VII 59'09	0°18'00	retrograde	1007 Oct 02 j 20:15	4° VII 36'05	
min. Earth dist.	1006 Oct 29 j 09:08	12° VII 45'24	0.67629 AU	evening set	1007 Oct 08 j 15:53	2° VII 09'17	
morning rise	1006 Nov 04 j 07:55	5° VII 51'31			1007 Oct 10 j 19:32	30° R VI	
direct	1006 Nov 08 j 07:08	4° VIII 22'18		min. Earth dist.	1007 Oct 13 j 03:11	27° VI 09'04	0.67174 AU
morning max el	1006 Nov 16 j 10:14	9° VIII 04'46	20°42'32	inferior conj	1007 Oct 14 j 03:59	25° VI 48'15	-0°37'12
	1006 Dec 02 j 07:12	0° IX		minimum elong	1007 Oct 14 j 04:56	25° VI 45'11	0°36'47
desc. node	1006 Dec 07 j 01:11	7° IX 04'17		asc. node	1007 Oct 15 j 23:08	23° VI 31'06	
morning set	1006 Dec 15 j 12:54	20° IX 03'51		morning rise	1007 Oct 19 j 18:08	19° VI 49'26	
	1006 Dec 21 j 20:10	0° X		direct	1007 Oct 23 j 05:23	18° VI 39'58	
max. Earth dist.	1006 Dec 24 j 12:11	4° X 17'29	1.43060 AU	morning max el	1007 Oct 30 j 12:50	22° VI 48'50	19°36'32
					1007 Nov 05 j 11:49	0° X	
superior conj	1006 Dec 31 j 03:46	15° X 14'54	-1°59'52	greatest brilliancy	1007 Nov 13 j 00:33	10° X 51'12	-0.7m
minimum elong	1006 Dec 31 j 00:22	15° X 00'37	1°59'45	desc. node	1007 Nov 23 j 22:14	27° X 31'21	
	1007 Jan 08 j 17:54	0° XI		morning set	1007 Nov 24 j 10:22	28° X 18'18	
evening rise	1007 Jan 12 j 04:32	6° XI 04'23			1007 Nov 25 j 12:38	0° XI	
asc. node	1007 Jan 25 j 01:22	27° XI 41'39		max. Earth dist.	1007 Dec 07 j 01:07	18° XI 02'20	1.44386 AU
	1007 Jan 26 j 18:17	0° XII					
evening max el	1007 Jan 29 j 07:23	2° XII 54'20	18°07'43	superior conj	1007 Dec 11 j 04:05	24° XI 37'14	-1°39'09
retrograde	1007 Feb 04 j 20:30	6° XII 18'28		minimum elong	1007 Dec 10 j 20:06	24° XI 05'09	1°38'28
evening set	1007 Feb 07 j 14:50	5° XII 41'35			1007 Dec 14 j 11:59	0° XII	
inferior conj	1007 Feb 14 j 00:47	0° XIII 35'57	3°44'48	evening rise	1007 Dec 25 j 01:23	17° XII 29'27	
minimum elong	1007 Feb 14 j 01:35	0° XIII 33'56	3°44'46		1008 Jan 01 j 12:09	0° XI	
	1007 Feb 14 j 14:58	30° R XII		asc. node	1008 Jan 11 j 22:24	15° XI 15'43	
min. Earth dist.	1007 Feb 16 j 23:58	27° XI 37'22	0.61917 AU	evening max el	1008 Jan 12 j 19:54	16° XI 12'51	18°19'57

retrograde	1008 Jan 19 j 07:38	19° \approx 43'51			1009 Jan 08 j 04:19	30° \approx 30	
evening set	1008 Jan 22 j 06:50	18° \approx 56'27		inferior conj	1009 Jan 10 j 23:06	26° \approx 45'32	3°27'54
inferior conj	1008 Jan 28 j 06:46	13° \approx 31'16	3°44'22	minimum elong	1009 Jan 10 j 20:55	26° \approx 52'17	3°27'33
minimum elong	1008 Jan 28 j 05:44	13° \approx 34'11	3°44'18	min. Earth dist.	1009 Jan 12 j 16:14	24° \approx 38'51	0.65360 AU
min. Earth dist.	1008 Jan 30 j 15:16	10° \approx 52'06	0.63810 AU	morning rise	1009 Jan 16 j 11:13	20° \approx 35'43	
morning rise	1008 Feb 03 j 03:57	7° \approx 26'44		direct	1009 Jan 23 j 02:18	17° \approx 43'52	
direct	1008 Feb 10 j 02:15	4° \approx 39'08		morning max el	1009 Feb 05 j 05:28	25° \approx 25'47	26°51'32
desc. node	1008 Feb 19 j 21:23	8° \approx 58'58		desc. node	1009 Feb 05 j 18:27	25° \approx 58'45	
morning max el	1008 Feb 23 j 19:34	12° \approx 31'34	27°36'08		1009 Feb 09 j 10:12	0° \approx	
	1008 Mar 08 j 19:08	0° \approx			1009 Mar 02 j 06:53	0° \approx	
	1008 Mar 26 j 15:13	0° \approx		morning set	1009 Mar 13 j 01:16	19° \approx 17'01	
morning set	1008 Mar 29 j 14:57	5° \approx 48'58		max. Earth dist.	1009 Mar 17 j 10:39	27° \approx 53'54	1.34340 AU
max. Earth dist.	1008 Apr 03 j 17:15	16° \approx 13'36	1.33217 AU		1009 Mar 18 j 11:37	0° \approx	
superior conj	1008 Apr 06 j 11:09	22° \approx 02'49	-0°25'30	superior conj	1009 Mar 21 j 12:38	6° \approx 15'31	-0°52'53
minimum elong	1008 Apr 06 j 12:24	22° \approx 09'29	0°25'14	minimum elong	1009 Mar 21 j 15:15	6° \approx 29'04	0°52'24
asc. node	1008 Apr 08 j 21:43	27° \approx 17'18		asc. node	1009 Mar 26 j 18:46	17° \approx 18'18	
	1008 Apr 10 j 03:56	0° \approx		evening rise	1009 Mar 29 j 00:13	21° \approx 58'14	
evening rise	1008 Apr 13 j 14:22	7° \approx 19'55			1009 Apr 01 j 23:07	0° \approx	
	1008 Apr 25 j 15:18	0° \approx		evening max el	1009 Apr 17 j 18:40	23° \approx 56'20	21°19'54
evening max el	1008 May 05 j 21:42	13° \approx 11'54	22°51'00	retrograde	1009 Apr 29 j 19:19	29° \approx 48'02	
desc. node	1008 May 17 j 20:37	19° \approx 14'15		evening set	1009 May 02 j 03:17	29° \approx 35'32	
retrograde	1008 May 19 j 04:40	19° \approx 14'19		desc. node	1009 May 04 j 17:39	28° \approx 54'22	
evening set	1008 May 22 j 12:25	19° \approx 14'04		inferior conj	1009 May 11 j 12:39	25° \approx 35'41	-1°56'11
min. Earth dist.	1008 May 30 j 06:22	15° \approx 15'01	0.55465 AU	minimum elong	1009 May 11 j 07:17	25° \approx 43'14	1°54'21
inferior conj	1008 May 31 j 17:53	15° \approx 17'55	-3°38'18	min. Earth dist.	1009 May 11 j 18:59	25° \approx 26'48	0.54944 AU
minimum elong	1008 May 31 j 10:20	15° \approx 18'49	3°36'25	morning rise	1009 May 20 j 11:42	21° \approx 35'59	
morning rise	1008 Jun 09 j 10:41	11° \approx 15'08		direct	1009 May 23 j 16:33	21° \approx 13'41	
direct	1008 Jun 12 j 06:21	10° \approx 15'32		morning max el	1009 Jun 05 j 07:43	27° \approx 13'27	22°16'40
morning max el	1008 Jun 23 j 07:23	16° \approx 03'38	20°44'53		1009 Jun 08 j 00:49	0° \approx	
	1008 Jul 03 j 19:14	0° \approx		asc. node	1009 Jun 22 j 18:03	22° \approx 15'50	
asc. node	1008 Jul 05 j 21:00	3° \approx 38'44			1009 Jun 26 j 05:18	0° \approx	
morning set	1008 Jul 12 j 11:58	16° \approx 35'36		morning set	1009 Jun 26 j 21:59	1° \approx 26'40	
	1008 Jul 18 j 23:20	0° \approx					
superior conj	1008 Jul 20 j 00:37	2° \approx 09'45	1°44'02	superior conj	1009 Jul 04 j 02:55	16° \approx 42'49	1°35'11
minimum elong	1008 Jul 19 j 23:28	2° \approx 03'52	1°43'58	minimum elong	1009 Jul 04 j 00:49	16° \approx 31'49	1°34'59
max. Earth dist.	1008 Jul 24 j 16:41	11° \approx 31'15	1.35887 AU	max. Earth dist.	1009 Jul 07 j 08:55	23° \approx 29'39	1.34399 AU
evening rise	1008 Jul 28 j 18:58	19° \approx 21'01		evening rise	1009 Jul 12 j 02:00	2° \approx 56'06	
	1008 Aug 03 j 17:14	0° \approx			1009 Jul 27 j 13:52	0° \approx	
desc. node	1008 Aug 13 j 20:00	16° \approx 22'28		desc. node	1009 Jul 31 j 17:01	6° \approx 11'41	
	1008 Aug 23 j 12:41	0° \approx		evening max el	1009 Aug 15 j 22:19	24° \approx 51'21	27°04'41
evening max el	1008 Sep 02 j 10:18	11° \approx 20'58	26°18'10		1009 Aug 22 j 10:33	0° \approx	
retrograde	1008 Sep 15 j 03:16	18° \approx 31'38		retrograde	1009 Aug 29 j 04:57	2° \approx 09'48	
evening set	1008 Sep 21 j 12:52	15° \approx 52'14			1009 Sep 04 j 07:45	30° \approx 09'48	
min. Earth dist.	1008 Sep 25 j 16:34	11° \approx 28'28	0.66376 AU	evening set	1009 Sep 05 j 02:10	29° \approx 25'01	
inferior conj	1008 Sep 27 j 04:51	9° \approx 37'04	-1°34'19	min. Earth dist.	1009 Sep 08 j 22:59	25° \approx 37'47	0.65227 AU
minimum elong	1008 Sep 27 j 07:18	9° \approx 29'32	1°33'18	inferior conj	1009 Sep 10 j 23:38	23° \approx 19'50	-2°31'15
asc. node	1008 Oct 01 j 20:11	4° \approx 39'48		minimum elong	1009 Sep 11 j 03:32	23° \approx 08'45	2°29'49
morning rise	1008 Oct 03 j 02:10	3° \approx 48'24		morning rise	1009 Sep 17 j 05:39	17° \approx 44'14	
direct	1008 Oct 06 j 03:34	2° \approx 55'09		asc. node	1009 Sep 18 j 17:16	17° \approx 12'07	
morning max el	1008 Oct 12 j 22:21	6° \approx 40'54	18°45'41	direct	1009 Sep 19 j 23:38	17° \approx 03'25	
	1008 Oct 29 j 07:50	0° \approx		morning max el	1009 Sep 26 j 12:25	20° \approx 35'10	18°11'12
morning set	1008 Nov 03 j 02:37	7° \approx 34'19			1009 Oct 03 j 16:57	0° \approx	
desc. node	1008 Nov 09 j 19:17	18° \approx 08'51		morning set	1009 Oct 14 j 23:38	18° \approx 15'54	
	1008 Nov 17 j 08:14	0° \approx		desc. node	1009 Oct 22 j 03:45	0° \approx	
superior conj	1008 Nov 19 j 08:26	3° \approx 09'24	-1°00'32		1009 Oct 27 j 16:19	8° \approx 52'31	
minimum elong	1008 Nov 19 j 01:02	2° \approx 40'18	0°59'37	superior conj	1009 Oct 29 j 11:41	11° \approx 44'53	-0°12'00
max. Earth dist.	1008 Nov 18 j 18:33	2° \approx 14'51	1.45035 AU	minimum elong	1009 Oct 29 j 10:09	11° \approx 38'47	0°11'48
evening rise	1008 Dec 04 j 23:17	27° \approx 56'52		behind sun begin	1009 Oct 29 j 02:33	11° \approx 08'39	
	1008 Dec 06 j 05:55	0° \approx		behind sun end	1009 Oct 29 j 17:45	12° \approx 08'54	
evening max el	1008 Dec 26 j 06:51	29° \approx 38'14	18°50'16	max. Earth dist.	1009 Nov 01 j 13:12	16° \approx 35'21	1.44951 AU
	1008 Dec 26 j 15:31	0° \approx			1009 Nov 10 j 02:50	0° \approx	
asc. node	1008 Dec 28 j 19:27	1° \approx 51'19		evening rise	1009 Nov 14 j 22:24	7° \approx 29'32	
retrograde	1009 Jan 02 j 01:19	3° \approx 26'55		greatest brilliancy	1009 Nov 27 j 09:38	26° \approx 42'19	-0.7m
evening set	1009 Jan 05 j 06:14	2° \approx 27'59			1009 Nov 29 j 14:33	0° \approx	

evening max el	1009 Dec 09 j 14:08	13°  06'28	19°37'17	evening max el	1010 Nov 22 j 16:16	26°  35'47	20°38'44
asc. node	1009 Dec 15 j 16:31	17°  13'15			1010 Nov 26 j 16:21	0° 	
retrograde	1009 Dec 16 j 22:15	17°  21'47		retrograde	1010 Nov 30 j 19:58	1°  24'45	
evening set	1009 Dec 20 j 10:24	16°  09'49		asc. node	1010 Dec 02 j 13:34	1°  07'49	
inferior conj	1009 Dec 25 j 22:37	10°  12'42	2°59'38	evening set	1010 Dec 04 j 17:15	29°  57'57	
minimum elong	1009 Dec 25 j 19:56	10°  21'29	2°58'58		1010 Dec 04 j 16:09	30°  R 	
min. Earth dist.	1009 Dec 27 j 01:24	8°  44'48	0.66517 AU	inferior conj	1010 Dec 10 j 02:44	23°  49'03	2°22'26
morning rise	1009 Dec 31 j 05:13	4°  00'12		minimum elong	1010 Dec 10 j 00:08	23°  57'55	2°21'35
direct	1010 Jan 06 j 08:20	1°  16'43		min. Earth dist.	1010 Dec 10 j 16:42	23°  01'27	0.67281 AU
morning max el	1010 Jan 18 j 14:36	8°  33'59	25°42'29	morning rise	1010 Dec 15 j 06:50	17°  35'49	
desc. node	1010 Jan 23 j 15:30	14°  08'47		direct	1010 Dec 20 j 19:27	15°  09'38	
	1010 Feb 04 j 10:56	0° 		morning max el	1010 Dec 31 j 22:52	21°  48'21	24°18'51
	1010 Feb 22 j 19:09	0° 			1011 Jan 08 j 02:04	0° 	
morning set	1010 Feb 23 j 20:53	1°  57'02		desc. node	1011 Jan 10 j 12:33	3°  08'38	
max. Earth dist.	1010 Feb 27 j 16:02	9°  02'54	1.35917 AU		1011 Jan 28 j 17:58	0° 	
				morning set	1011 Feb 05 j 20:00	13°  32'37	
superior conj	1010 Mar 05 j 06:09	19°  59'52	-1°19'03	max. Earth dist.	1011 Feb 09 j 12:50	20°  06'07	1.37879 AU
minimum elong	1010 Mar 05 j 09:52	20°  18'28	1°18'29		1011 Feb 14 j 21:13	0° 	
	1010 Mar 10 j 04:06	0° 					
evening rise	1010 Mar 13 j 06:14	6°  09'27		superior conj	1011 Feb 16 j 12:17	3°  06'22	-1°41'47
asc. node	1010 Mar 13 j 15:50	7°  08'15		minimum elong	1011 Feb 16 j 16:21	3°  25'53	1°41'21
	1010 Mar 26 j 14:19	0° 		evening rise	1011 Feb 25 j 05:58	20°  16'26	
evening max el	1010 Mar 31 j 02:43	5°  15'29	20°03'08	asc. node	1011 Feb 28 j 12:52	26°  41'44	
retrograde	1010 Apr 10 j 10:12	10°  13'25			1011 Mar 02 j 06:46	0° 	
evening set	1010 Apr 12 j 11:38	10°  02'24		evening max el	1011 Mar 13 j 21:53	17°  13'05	19°05'05
inferior conj	1010 Apr 21 j 10:05	6°  03'07	0°03'18	retrograde	1011 Mar 22 j 14:14	21°  09'50	
minimum elong	1010 Apr 21 j 10:14	6°  02'54	0°03'15	evening set	1011 Mar 24 j 19:02	21°  09'50	
transit middle	1010 Apr 21 j 10:14	6°  02'54	0°03'15	inferior conj	1011 Apr 01 j 22:52	16°  56'51	1°47'08
transit begin	1010 Apr 21 j 06:20	6°  08'47		minimum elong	1011 Apr 02 j 02:38	16°  50'20	1°45'58
transit end	1010 Apr 21 j 14:09	5°  57'00		min. Earth dist.	1011 Apr 05 j 00:09	14°  51'16	0.56704 AU
desc. node	1010 Apr 21 j 14:40	5°  56'14		desc. node	1011 Apr 08 j 11:42	12°  47'30	
min. Earth dist.	1010 Apr 23 j 08:48	4°  52'59	0.55389 AU	morning rise	1011 Apr 10 j 07:14	11°  58'44	
morning rise	1010 Apr 30 j 06:51	1°  38'26		direct	1011 Apr 15 j 08:43	10°  58'40	
direct	1010 May 04 j 06:37	1°  03'30		morning max el	1011 Apr 29 j 14:47	18°  19'09	25°34'59
morning max el	1010 May 18 j 00:17	7°  50'58	23°57'48		1011 May 09 j 08:12	0° 	
	1010 Jun 03 j 01:12	0° 			1011 May 26 j 06:05	0° 	
asc. node	1010 Jun 09 j 15:06	12°  42'05		morning set	1011 May 26 j 21:26	1°  20'34	
morning set	1010 Jun 11 j 09:43	16°  23'52		asc. node	1011 May 27 j 12:09	2°  38'21	
	1010 Jun 17 j 17:28	0° 					
superior conj	1010 Jun 18 j 10:28	1°  31'53	1°21'06	superior conj	1011 Jun 02 j 21:02	16°  28'22	1°02'48
minimum elong	1010 Jun 18 j 08:02	1°  18'42	1°20'47	minimum elong	1011 Jun 02 j 18:44	16°  15'50	1°02'24
max. Earth dist.	1010 Jun 20 j 10:36	5°  50'24	1.33307 AU	max. Earth dist.	1011 Jun 03 j 19:21	18°  30'27	1.32605 AU
evening rise	1010 Jun 25 j 20:29	17°  05'46			1011 Jun 09 j 04:01	0° 	
	1010 Jul 02 j 13:46	0° 		evening rise	1011 Jun 09 j 22:53	1°  38'01	
desc. node	1010 Jul 18 j 14:02	25°  02'73			1011 Jun 25 j 12:12	0° 	
	1010 Jul 22 j 01:59	0° 		desc. node	1011 Jul 05 j 11:01	13°  05'58	
evening max el	1010 Jul 29 j 09:29	8°  04'01	27°25'17	evening max el	1011 Jul 11 j 17:11	20°  04'47	27°14'39
retrograde	1010 Aug 12 j 00:38	15°  22'33		retrograde	1011 Jul 25 j 13:23	27°  05'52	
evening set	1010 Aug 19 j 04:48	12°  24'46		evening set	1011 Aug 01 j 16:52	25°  03'50	
min. Earth dist.	1010 Aug 22 j 20:23	9°  29'16	0.63729 AU	min. Earth dist.	1011 Aug 05 j 07:16	22°  05'04	0.61909 AU
inferior conj	1010 Aug 25 j 09:51	6°  51'33	-3°25'08	inferior conj	1011 Aug 08 j 08:22	20°  03'50	-4°11'41
minimum elong	1010 Aug 25 j 14:45	6°  38'55	3°23'41	minimum elong	1011 Aug 08 j 13:14	19°  02'42	4°10'41
morning rise	1010 Sep 01 j 01:48	1°  32'18		morning rise	1011 Aug 15 j 11:05	15°  04'26	
direct	1010 Sep 03 j 14:58	1°  00'21		direct	1011 Aug 17 j 22:04	14°  03'87	
asc. node	1010 Sep 05 j 14:19	1°  19'49		asc. node	1011 Aug 23 j 11:22	16°  05'10	
morning max el	1010 Sep 10 j 04:22	4°  26'10	17°54'02	morning max el	1011 Aug 24 j 19:15	18°  06'27	17°55'15
morning set	1010 Sep 26 j 23:03	0°  14'17			1011 Sep 02 j 08:27	0° 	
	1010 Sep 26 j 19:45	0° 		morning set	1011 Sep 09 j 18:38	13°  10'25	
					1011 Sep 19 j 04:40	0° 	
superior conj	1010 Oct 09 j 09:56	21°  01'45	0°34'04	superior conj	1011 Sep 20 j 11:22	2°  13'02	1°09'33
minimum elong	1010 Oct 09 j 13:27	21°  33'09	0°33'35	minimum elong	1011 Sep 20 j 16:08	2°  33'34	1°09'00
desc. node	1010 Oct 14 j 13:22	29°  03'92		max. Earth dist.	1011 Sep 27 j 20:08	14°  03'61	1.42745 AU
	1010 Oct 14 j 18:31	0° 		desc. node	1011 Oct 01 j 10:23	20°  05'50	
max. Earth dist.	1010 Oct 15 j 06:35	0°  48'14	1.44157 AU	evening rise	1011 Oct 04 j 18:24	25°  03'17	
evening rise	1010 Oct 25 j 07:17	16°  31'14			1011 Oct 07 j 12:16	0° 	
	1010 Nov 03 j 03:59	0° 			1011 Oct 28 j 02:52	0° 	

evening max el	1011 Nov 05 j 12:38	10° ♁ 05'41	21°51'18	evening rise	1012 Sep 13 j 23:18	5° ♁ 45'28	
retrograde	1011 Nov 14 j 16:38	15° ♁ 32'53		desc. node	1012 Sep 17 j 07:22	11° ♁ 08'40	
evening set	1011 Nov 19 j 00:58	13° ♁ 49'36			1012 Sep 29 j 17:21	0° ♁	
asc. node	1011 Nov 19 j 10:36	13° ♁ 29'25		evening max el	1012 Oct 18 j 03:59	23° ♁ 37'00	23°10'19
inferior conj	1011 Nov 24 j 09:22	7° ♁ 32'11	1°38'16	retrograde	1012 Oct 28 j 10:45	29° ♁ 42'44	
minimum elong	1011 Nov 24 j 07:19	7° ♁ 39'17	1°37'28	evening set	1012 Nov 02 j 07:52	27° ♁ 42'02	
min. Earth dist.	1011 Nov 24 j 11:50	7° ♁ 23'39	0.67677 AU	asc. node	1012 Nov 05 j 07:38	24° ♁ 30'36	
morning rise	1011 Nov 29 j 13:32	1° ♁ 20'05		inferior conj	1012 Nov 07 j 16:39	21° ♁ 19'51	0°48'38
	1011 Dec 01 j 12:10	30° ♁		minimum elong	1012 Nov 07 j 15:32	21° ♁ 23'42	0°48'11
direct	1011 Dec 04 j 10:55	29° ♁ 15'48		min. Earth dist.	1012 Nov 07 j 08:29	21° ♁ 47'57	0.67735 AU
	1011 Dec 07 j 14:59	0° ♁		morning rise	1012 Nov 12 j 23:07	15° ♁ 10'50	
morning max el	1011 Dec 14 j 08:41	5° ♁ 08'11	22°50'42	direct	1012 Nov 17 j 05:54	13° ♁ 29'23	
desc. node	1011 Dec 28 j 09:36	22° ♁ 44'04		morning max el	1012 Nov 25 j 23:27	18° ♁ 35'51	21°26'32
	1012 Jan 02 j 10:29	0° ♁			1012 Dec 05 j 08:02	0° ♁	
morning set	1012 Jan 17 j 16:30	23° ♁ 48'34		desc. node	1012 Dec 14 j 06:37	12° ♁ 44'37	
	1012 Jan 21 j 09:07	0° ♁			1012 Dec 25 j 14:46	0° ♁	
max. Earth dist.	1012 Jan 22 j 08:34	1° ♁ 40'09	1.40014 AU	morning set	1012 Dec 27 j 07:58	2° ♁ 42'06	
				max. Earth dist.	1013 Jan 03 j 09:20	14° ♁ 05'07	1.42043 AU
superior conj	1012 Jan 30 j 02:40	15° ♁ 23'49	-1°57'59	superior conj	1013 Jan 10 j 19:54	26° ♁ 38'30	-2°03'29
minimum elong	1012 Jan 30 j 05:35	15° ♁ 37'10	1°57'50	minimum elong	1013 Jan 10 j 19:24	26° ♁ 36'23	2°03'29
	1012 Feb 06 j 21:55	0° ♁			1013 Jan 12 j 18:12	0° ♁	
evening rise	1012 Feb 08 j 20:30	3° ♁ 41'53		evening rise	1013 Jan 21 j 22:08	16° ♁ 26'24	
asc. node	1012 Feb 15 j 09:54	15° ♁ 53'01			1013 Jan 29 j 12:11	0° ♁	
evening max el	1012 Feb 25 j 01:51	29° ♁ 44'21	18°27'08	asc. node	1013 Feb 01 j 06:56	4° ♁ 34'01	
	1012 Feb 25 j 08:24	0° ♁		evening max el	1013 Feb 07 j 11:28	12° ♁ 39'55	18°09'13
retrograde	1012 Mar 03 j 13:27	3° ♁ 25'29		retrograde	1013 Feb 14 j 05:52	16° ♁ 06'19	
evening set	1012 Mar 05 j 23:42	3° ♁ 03'23		evening set	1013 Feb 16 j 21:18	15° ♁ 35'16	
	1012 Mar 11 j 11:13	30° ♁		inferior conj	1013 Feb 23 j 14:36	10° ♁ 41'38	3°35'28
inferior conj	1012 Mar 13 j 08:42	28° ♁ 30'34	2°57'51	minimum elong	1013 Feb 23 j 16:38	10° ♁ 36'51	3°35'16
minimum elong	1012 Mar 13 j 12:34	28° ♁ 22'44	2°57'00	min. Earth dist.	1013 Feb 26 j 20:28	7° ♁ 40'34	0.60714 AU
min. Earth dist.	1012 Mar 16 j 19:07	25° ♁ 45'25	0.58595 AU	morning rise	1013 Mar 02 j 10:07	4° ♁ 53'27	
morning rise	1012 Mar 20 j 22:44	23° ♁ 02'37		direct	1013 Mar 09 j 03:43	2° ♁ 41'24	
desc. node	1012 Mar 25 j 08:44	21° ♁ 34'10		desc. node	1013 Mar 12 j 05:46	3° ♁ 07'23	
direct	1012 Mar 27 j 00:20	21° ♁ 27'05		morning max el	1013 Mar 23 j 09:33	10° ♁ 32'40	27°38'26
morning max el	1012 Apr 10 j 09:05	29° ♁ 07'22	26°52'33		1013 Apr 07 j 12:53	0° ♁	
	1012 Apr 11 j 06:11	0° ♁			1013 Apr 24 j 04:32	0° ♁	
	1012 May 02 j 01:46	0° ♁		morning set	1013 Apr 24 j 14:11	0° ♁ 49'41	
morning set	1012 May 10 j 07:32	16° ♁ 11'23		asc. node	1013 Apr 30 j 06:13	12° ♁ 53'21	
asc. node	1012 May 13 j 09:11	22° ♁ 43'43		max. Earth dist.	1013 Apr 30 j 19:30	14° ♁ 05'47	1.32327 AU
	1012 May 16 j 17:04	0° ♁					
superior conj	1012 May 17 j 08:46	1° ♁ 26'23	0°41'03	superior conj	1013 May 01 j 20:00	16° ♁ 19'47	0°16'36
minimum elong	1012 May 17 j 07:04	1° ♁ 17'02	0°40'42	minimum elong	1013 May 01 j 19:15	16° ♁ 15'40	0°16'26
max. Earth dist.	1012 May 17 j 07:36	1° ♁ 19'56	1.32281 AU		1013 May 08 j 02:45	0° ♁	
evening rise	1012 May 24 j 06:33	16° ♁ 24'19		evening rise	1013 May 08 j 17:15	1° ♁ 17'00	
	1012 May 31 j 02:00	0° ♁			1013 May 24 j 09:13	0° ♁	
	1012 Jun 20 j 03:43	0° ♁		evening max el	1013 Jun 04 j 13:19	13° ♁ 50'53	25°17'54
desc. node	1012 Jun 21 j 08:01	1° ♁ 14'29		desc. node	1013 Jun 08 j 05:01	16° ♁ 57'56	
evening max el	1012 Jun 22 j 18:45	2° ♁ 40'16	26°30'52	retrograde	1013 Jun 18 j 13:51	20° ♁ 59'34	
retrograde	1012 Jul 06 j 18:20	9° ♁ 53'37		evening set	1013 Jun 24 j 03:45	19° ♁ 47'10	
evening set	1012 Jul 13 j 09:47	8° ♁ 02'18		min. Earth dist.	1013 Jun 29 j 01:09	17° ♁ 03'07	0.57843 AU
min. Earth dist.	1012 Jul 17 j 07:57	5° ♁ 25'41	0.59873 AU	inferior conj	1013 Jul 02 j 04:25	14° ♁ 53'33	-4°50'32
inferior conj	1012 Jul 20 j 15:41	2° ♁ 47'33	-4°43'47	minimum elong	1013 Jul 02 j 03:07	14° ♁ 55'47	4°50'29
minimum elong	1012 Jul 20 j 18:38	2° ♁ 41'39	4°43'30	morning rise	1013 Jul 10 j 05:08	10° ♁ 39'00	
	1012 Jul 24 j 10:27	30° ♁		direct	1013 Jul 12 j 18:18	10° ♁ 19'24	
morning rise	1012 Jul 28 j 05:29	28° ♁ 10'43		morning max el	1013 Jul 21 j 09:42	14° ♁ 22'56	18°57'14
direct	1012 Jul 30 j 16:39	27° ♁ 48'37		asc. node	1013 Jul 27 j 05:27	21° ♁ 31'18	
	1012 Aug 05 j 12:42	0° ♁			1013 Aug 01 j 07:33	0° ♁	
morning max el	1012 Aug 07 j 06:03	1° ♁ 28'24	18°15'56	morning set	1013 Aug 07 j 01:21	10° ♁ 57'33	
asc. node	1012 Aug 09 j 08:24	3° ♁ 44'00					
morning set	1012 Aug 23 j 04:49	26° ♁ 48'35		superior conj	1013 Aug 15 j 11:53	27° ♁ 28'54	1°44'02
	1012 Aug 24 j 21:10	0° ♁		minimum elong	1013 Aug 15 j 13:22	27° ♁ 36'00	1°43'57
					1013 Aug 16 j 19:38	0° ♁	
superior conj	1012 Sep 01 j 13:52	14° ♁ 21'40	1°32'28	max. Earth dist.	1013 Aug 22 j 07:29	10° ♁ 07'35	1.38865 AU
minimum elong	1012 Sep 01 j 17:22	14° ♁ 37'36	1°32'10	evening rise	1013 Aug 26 j 04:38	16° ♁ 56'43	
max. Earth dist.	1012 Sep 09 j 03:56	27° ♁ 43'47	1.40898 AU		1013 Sep 03 j 02:02	0° ♁	
	1012 Sep 10 j 12:05	0° ♁		desc. node	1013 Sep 04 j 04:23	1° ♁ 44'12	

	1013 Sep 24 j 05:11	0°♄		superior conj	1014 Jul 30 j 00:01	11°♄18'36	1°46'14
evening max el	1013 Sep 30 j 16:30	7°♄12'34	24°29'45	minimum elong	1014 Jul 29 j 23:41	11°♄16'54	1°46'13
retrograde	1013 Oct 12 j 01:14	13°♄51'15		max. Earth dist.	1014 Aug 04 j 12:02	22°♄02'40	1.36907 AU
evening set	1013 Oct 17 j 12:23	11°♄33'33		evening rise	1014 Aug 08 j 08:51	29°♄13'10	
min. Earth dist.	1013 Oct 22 j 04:17	6°♄12'55	0.67471 AU		1014 Aug 08 j 19:12	0°♄	
inferior conj	1013 Oct 22 j 22:53	5°♄10'42	-0°04'59	desc. node	1014 Aug 22 j 01:25	22°♄06'57	
minimum elong	1013 Oct 22 j 23:00	5°♄10'18	0°04'56		1014 Aug 27 j 08:34	0°♄	
transit middle	1013 Oct 22 j 23:00	5°♄10'18	0°04'56	evening max el	1014 Sep 13 j 04:20	20°♄51'15	25°42'29
transit begin	1013 Oct 22 j 20:23	5°♄19'03		retrograde	1014 Sep 25 j 11:05	27°♄52'55	
transit end	1013 Oct 23 j 01:37	5°♄01'33		evening set	1014 Oct 01 j 12:40	25°♄20'26	
asc. node	1013 Oct 23 j 04:40	4°♄51'22		min. Earth dist.	1014 Oct 05 j 20:47	20°♄35'15	0.66877 AU
	1013 Oct 27 j 07:48	30°♄		inferior conj	1014 Oct 07 j 02:15	19°♄01'19	-1°01'17
morning rise	1013 Oct 28 j 09:40	29°♄07'12		minimum elong	1014 Oct 07 j 03:50	18°♄56'18	1°00'37
direct	1013 Nov 01 j 03:28	27°♄46'53		asc. node	1014 Oct 10 j 01:43	15°♄27'12	
	1013 Nov 06 j 09:49	0°♄		morning rise	1014 Oct 12 j 19:14	13°♄06'08	
morning max el	1013 Nov 08 j 21:34	2°♄14'17	20°12'41	direct	1014 Oct 16 j 02:01	12°♄03'56	
	1013 Nov 29 j 03:19	0°♄		morning max el	1014 Oct 23 j 03:14	16°♄01'54	19°12'51
desc. node	1013 Dec 01 j 03:40	3°♄03'46			1014 Nov 02 j 17:37	0°♄	
morning set	1013 Dec 06 j 05:05	10°♄49'56		morning set	1014 Nov 15 j 08:11	19°♄24'06	
max. Earth dist.	1013 Dec 16 j 17:35	27°♄22'36	1.43696 AU	desc. node	1014 Nov 18 j 00:44	23°♄35'44	
	1013 Dec 18 j 08:44	0°♄			1014 Nov 22 j 03:09	0°♄	
				max. Earth dist.	1014 Nov 29 j 08:32	11°♄20'32	1.44755 AU
superior conj	1013 Dec 22 j 11:28	6°♄41'50	-1°53'26				
minimum elong	1013 Dec 22 j 05:49	6°♄18'39	1°53'06	superior conj	1014 Dec 02 j 01:46	15°♄38'31	-1°24'41
evening rise	1014 Jan 04 j 06:42	28°♄22'17		minimum elong	1014 Dec 01 j 17:09	15°♄04'25	1°23'48
	1014 Jan 05 j 05:14	0°♄			1014 Dec 11 j 00:32	0°♄	
asc. node	1014 Jan 19 j 03:58	22°♄35'40		evening rise	1014 Dec 16 j 18:01	9°♄22'45	
evening max el	1014 Jan 21 j 23:46	25°♄52'11	18°10'41		1014 Dec 29 j 11:02	0°♄	
retrograde	1014 Jan 28 j 11:18	29°♄17'44		evening max el	1015 Jan 05 j 11:59	9°♄14'37	18°30'46
evening set	1014 Jan 31 j 07:37	28°♄36'36		asc. node	1015 Jan 06 j 01:00	9°♄46'43	
inferior conj	1014 Feb 06 j 12:55	23°♄22'45	3°46'52	retrograde	1015 Jan 12 j 01:32	12°♄51'32	
minimum elong	1014 Feb 06 j 12:53	23°♄22'52	3°46'53	evening set	1015 Jan 15 j 03:06	11°♄59'18	
min. Earth dist.	1014 Feb 09 j 06:18	20°♄29'56	0.62759 AU	inferior conj	1015 Jan 20 j 23:42	6°♄26'40	3°39'02
morning rise	1014 Feb 12 j 17:07	17°♄22'44		minimum elong	1015 Jan 20 j 22:06	6°♄31'24	3°38'51
direct	1014 Feb 19 j 16:34	14°♄43'41		min. Earth dist.	1015 Jan 23 j 01:41	4°♄00'09	0.64521 AU
desc. node	1014 Feb 27 j 02:50	17°♄14'44		morning rise	1015 Jan 26 j 16:36	0°♄19'48	
morning max el	1014 Mar 05 j 15:26	22°♄38'11	27°47'20		1015 Jan 27 j 02:18	30°♄	
	1014 Mar 12 j 04:01	0°♄		direct	1015 Feb 02 j 12:45	27°♄28'30	
	1014 Mar 31 j 17:11	0°♄			1015 Feb 09 j 17:06	0°♄	
morning set	1014 Apr 08 j 15:14	15°♄07'58		desc. node	1015 Feb 13 j 23:55	3°♄21'35	
max. Earth dist.	1014 Apr 14 j 03:07	26°♄34'16	1.32766 AU	morning max el	1015 Feb 16 j 00:27	5°♄17'26	27°20'43
	1014 Apr 15 j 17:26	0°♄			1015 Mar 06 j 20:14	0°♄	
				morning set	1015 Mar 23 j 07:57	28°♄57'36	
superior conj	1014 Apr 16 j 05:01	1°♄02'36	-0°09'47		1015 Mar 23 j 20:40	0°♄	
minimum elong	1014 Apr 16 j 05:30	1°♄05'08	0°09'42	max. Earth dist.	1015 Mar 28 j 02:43	8°♄34'31	1.33634 AU
behind sun begin	1014 Apr 16 j 01:20	0°♄42'39					
behind sun end	1014 Apr 16 j 09:39	1°♄27'38		superior conj	1015 Mar 31 j 09:56	15°♄28'41	-0°37'09
asc. node	1014 Apr 17 j 03:16	3°♄03'03		minimum elong	1015 Mar 31 j 11:45	15°♄38'23	0°36'47
evening rise	1014 Apr 23 j 05:04	16°♄09'18		asc. node	1015 Apr 04 j 00:19	23°♄08'48	
	1014 Apr 30 j 02:40	0°♄			1015 Apr 07 j 05:43	0°♄	
evening max el	1014 May 17 j 03:41	24°♄29'27	23°46'24	evening rise	1015 Apr 07 j 16:12	0°♄55'05	
	1014 May 24 j 20:28	0°♄			1015 Apr 24 j 08:03	0°♄	
desc. node	1014 May 26 j 02:03	0°♄30'07		evening max el	1015 Apr 28 j 20:18	5°♄03'37	22°11'06
retrograde	1014 May 30 j 21:13	1°♄22'27		retrograde	1015 May 11 j 16:00	11°♄22'25	
evening set	1014 Jun 04 j 00:13	0°♄44'57		desc. node	1015 May 12 j 23:04	11°♄18'39	
	1014 Jun 06 j 01:57	30°♄		evening set	1015 May 14 j 11:43	11°♄04'49	
min. Earth dist.	1014 Jun 10 j 14:25	27°♄38'14	0.56150 AU	min. Earth dist.	1015 May 23 j 02:30	7°♄23'32	0.55130 AU
inferior conj	1014 Jun 12 j 21:00	26°♄15'29	-4°18'20	inferior conj	1015 May 23 j 20:53	6°♄57'41	-2°59'21
minimum elong	1014 Jun 12 j 14:50	26°♄24'52	4°17'16	minimum elong	1015 May 23 j 13:32	7°♄08'01	2°57'09
morning rise	1014 Jun 21 j 08:11	22°♄17'41		morning rise	1015 Jun 01 j 17:01	3°♄04'19	
direct	1014 Jun 24 j 00:52	21°♄59'13		direct	1015 Jun 04 j 15:56	2°♄44'42	
morning max el	1014 Jul 04 j 03:20	26°♄40'00	19°59'41	morning max el	1015 Jun 16 j 09:37	8°♄13'48	21°22'02
	1014 Jul 07 j 06:22	0°♄		asc. node	1015 Jun 30 j 23:35	29°♄09'31	
asc. node	1014 Jul 14 j 02:30	10°♄03'21			1015 Jul 01 j 10:16	0°♄	
morning set	1014 Jul 22 j 04:58	25°♄28'07		morning set	1015 Jul 06 j 13:15	10°♄13'53	
	1014 Jul 24 j 10:21	0°♄					
				superior conj	1015 Jul 13 j 22:07	25°♄38'54	1°40'58

minimum elong	1015 Jul 13 j 20:30	25° \mathfrak{D} 30'30	1°40'53	superior conj	1016 Jun 27 j 02:55	10° \mathfrak{D} 19'27	1°29'47
	1015 Jul 16 j 00:50	0° \mathfrak{Q}		minimum elong	1016 Jun 27 j 00:37	10° \mathfrak{D} 07'10	1°29'32
max. Earth dist.	1015 Jul 17 j 23:23	3° \mathfrak{Q} 55'16	1.35216 AU	max. Earth dist.	1016 Jun 29 j 19:55	16° \mathfrak{D} 03'08	1.33885 AU
evening rise	1015 Jul 22 j 07:28	12° \mathfrak{Q} 23'25		evening rise	1016 Jul 04 j 19:47	26° \mathfrak{D} 14'05	
	1015 Aug 01 j 04:46	0° \mathfrak{P}			1016 Jul 06 j 18:04	0° \mathfrak{Q}	
desc. node	1015 Aug 08 j 22:25	12° \mathfrak{P} 10'44			1016 Jul 24 j 13:23	0° \mathfrak{P}	
	1015 Aug 22 j 10:28	0° \mathfrak{A}		desc. node	1016 Jul 25 j 19:26	1° \mathfrak{P} 47'18	
evening max el	1015 Aug 26 j 16:29	4° \mathfrak{A} 27'45	26°40'38	evening max el	1016 Aug 08 j 04:18	17° \mathfrak{P} 51'57	27°16'53
retrograde	1015 Sep 08 j 15:42	11° \mathfrak{A} 41'51		retrograde	1016 Aug 21 j 14:43	25° \mathfrak{P} 10'44	
evening set	1015 Sep 15 j 06:41	8° \mathfrak{A} 59'22		evening set	1016 Aug 28 j 15:51	22° \mathfrak{P} 26'24	
min. Earth dist.	1015 Sep 19 j 07:28	4° \mathfrak{A} 51'08	0.65941 AU	min. Earth dist.	1016 Sep 01 j 10:06	18° \mathfrak{P} 54'27	0.64639 AU
inferior conj	1015 Sep 21 j 00:49	2° \mathfrak{A} 48'10	-1°58'35	inferior conj	1016 Sep 03 j 16:17	16° \mathfrak{P} 26'59	-2°54'39
minimum elong	1015 Sep 21 j 03:55	2° \mathfrak{A} 38'57	1°57'22	minimum elong	1016 Sep 03 j 20:42	16° \mathfrak{P} 14'58	2°53'10
	1015 Sep 23 j 11:55	30° \mathfrak{R} \mathfrak{P}		morning rise	1016 Sep 10 j 02:25	10° \mathfrak{P} 58'10	
asc. node	1015 Sep 26 j 22:47	27° \mathfrak{P} 08'28		direct	1016 Sep 12 j 18:06	10° \mathfrak{P} 21'28	
morning rise	1015 Sep 27 j 01:39	27° \mathfrak{P} 04'32		asc. node	1016 Sep 12 j 19:51	10° \mathfrak{P} 21'30	
direct	1015 Sep 29 j 23:43	26° \mathfrak{P} 16'52		morning max el	1016 Sep 19 j 06:12	13° \mathfrak{P} 49'21	18°01'44
morning max el	1015 Oct 06 j 14:55	29° \mathfrak{P} 55'15	18°28'52		1016 Sep 30 j 14:17	0° \mathfrak{A}	
	1015 Oct 06 j 16:48	0° \mathfrak{A}		morning set	1016 Oct 06 j 21:21	10° \mathfrak{A} 33'14	
morning set	1015 Oct 26 j 12:25	29° \mathfrak{A} 16'28			1016 Oct 18 j 15:41	0° \mathfrak{M}	
	1015 Oct 26 j 23:15	0° \mathfrak{M}					
desc. node	1015 Nov 04 j 21:45	14° \mathfrak{M} 16'08		superior conj	1016 Oct 20 j 12:12	2° \mathfrak{M} 59'21	0°08'30
				minimum elong	1016 Oct 20 j 13:13	3° \mathfrak{M} 03'26	0°08'22
superior conj	1015 Nov 11 j 02:45	24° \mathfrak{M} 03'46	-0°40'23	behind sun begin	1016 Oct 20 j 04:08	2° \mathfrak{M} 26'55	
minimum elong	1015 Nov 10 j 21:30	23° \mathfrak{M} 43'10	0°39'42	behind sun end	1016 Oct 20 j 22:19	3° \mathfrak{M} 39'53	
max. Earth dist.	1015 Nov 12 j 03:22	25° \mathfrak{M} 40'32	1.45098 AU	desc. node	1016 Oct 21 j 18:45	5° \mathfrak{M} 01'43	
	1015 Nov 14 j 21:27	0° \mathfrak{X}		max. Earth dist.	1016 Oct 24 j 22:15	10° \mathfrak{M} 01'49	1.44698 AU
evening rise	1015 Nov 27 j 05:47	19° \mathfrak{X} 25'38		evening rise	1016 Nov 05 j 21:19	28° \mathfrak{M} 41'40	
	1015 Dec 03 j 22:24	0° \mathfrak{Z}			1016 Nov 06 j 17:38	0° \mathfrak{X}	
greatest brilliancy	1015 Dec 06 j 20:48	4° \mathfrak{Z} 35'58	-0.8m	greatest brilliancy	1016 Nov 19 j 21:23	19° \mathfrak{X} 59'10	-0.6m
evening max el	1015 Dec 19 j 21:38	22° \mathfrak{Z} 41'41	19°08'21		1016 Nov 26 j 22:59	0° \mathfrak{Z}	
asc. node	1015 Dec 23 j 22:03	25° \mathfrak{Z} 52'58		evening max el	1016 Dec 02 j 02:47	6° \mathfrak{Z} 10'30	20°01'46
retrograde	1015 Dec 26 j 20:55	26° \mathfrak{Z} 40'25		retrograde	1016 Dec 09 j 18:35	10° \mathfrak{Z} 39'42	
evening set	1015 Dec 30 j 04:49	25° \mathfrak{Z} 35'56		asc. node	1016 Dec 09 j 19:07	10° \mathfrak{Z} 39'41	
inferior conj	1016 Jan 04 j 19:25	19° \mathfrak{Z} 46'45	3°17'10	evening set	1016 Dec 13 j 10:23	9° \mathfrak{Z} 21'32	
minimum elong	1016 Jan 04 j 16:57	19° \mathfrak{Z} 54'37	3°16'39	inferior conj	1016 Dec 18 j 21:12	3° \mathfrak{Z} 18'43	2°44'49
min. Earth dist.	1016 Jan 06 j 06:11	17° \mathfrak{Z} 56'28	0.65904 AU	minimum elong	1016 Dec 18 j 18:29	3° \mathfrak{Z} 27'47	2°44'03
morning rise	1016 Jan 10 j 04:49	13° \mathfrak{Z} 35'45		min. Earth dist.	1016 Dec 19 j 18:15	2° \mathfrak{Z} 08'15	0.66886 AU
direct	1016 Jan 16 j 15:14	10° \mathfrak{Z} 46'25			1016 Dec 21 j 09:57	30° \mathfrak{R} \mathfrak{X}	
morning max el	1016 Jan 29 j 10:10	18° \mathfrak{Z} 18'50	26°24'39	morning rise	1016 Dec 24 j 02:23	27° \mathfrak{X} 05'36	
desc. node	1016 Jan 31 j 20:58	20° \mathfrak{Z} 54'13		direct	1016 Dec 29 j 23:22	24° \mathfrak{X} 28'56	
	1016 Feb 08 j 07:15	0° \mathfrak{A}			1017 Jan 09 j 05:20	0° \mathfrak{Z}	
	1016 Feb 27 j 19:43	0° \mathfrak{X}		morning max el	1017 Jan 10 j 19:04	1° \mathfrak{Z} 31'31	25°08'07
morning set	1016 Mar 05 j 12:33	12° \mathfrak{X} 06'31		desc. node	1017 Jan 17 j 18:00	9° \mathfrak{Z} 27'49	
max. Earth dist.	1016 Mar 09 j 15:15	20° \mathfrak{X} 01'14	1.34960 AU		1017 Feb 01 j 08:28	0° \mathfrak{A}	
				morning set	1017 Feb 16 j 00:11	24° \mathfrak{A} 21'21	
superior conj	1016 Mar 14 j 08:20	29° \mathfrak{X} 30'05	-1°04'15		1017 Feb 19 j 02:33	0° \mathfrak{X}	
minimum elong	1016 Mar 14 j 11:28	29° \mathfrak{X} 46'07	1°03'42	max. Earth dist.	1017 Feb 19 j 16:33	1° \mathfrak{X} 05'02	1.36717 AU
	1016 Mar 14 j 14:10	0° \mathfrak{Y}					
asc. node	1016 Mar 20 j 21:22	13° \mathfrak{Y} 05'38		superior conj	1017 Feb 25 j 21:25	12° \mathfrak{X} 59'16	-1°29'17
evening rise	1016 Mar 22 j 00:40	15° \mathfrak{Y} 26'58		minimum elong	1017 Feb 26 j 01:24	13° \mathfrak{X} 18'57	1°28'44
	1016 Mar 29 j 11:39	0° \mathfrak{X}		evening rise	1017 Mar 06 j 04:19	29° \mathfrak{X} 38'51	
evening max el	1016 Apr 09 j 21:33	16° \mathfrak{X} 00'19	20°45'04		1017 Mar 06 j 08:32	0° \mathfrak{Y}	
retrograde	1016 Apr 21 j 05:01	21° \mathfrak{X} 29'24		asc. node	1017 Mar 07 j 18:24	2° \mathfrak{Y} 49'17	
evening set	1016 Apr 23 j 08:36	21° \mathfrak{X} 18'17		evening max el	1017 Mar 23 j 10:20	27° \mathfrak{Y} 35'17	19°35'55
desc. node	1016 Apr 28 j 20:08	19° \mathfrak{X} 23'50			1017 Mar 26 j 09:04	0° \mathfrak{X}	
inferior conj	1016 May 02 j 14:47	17° \mathfrak{X} 20'28	-1°05'31	retrograde	1017 Apr 02 j 00:35	2° \mathfrak{X} 12'27	
minimum elong	1016 May 02 j 11:41	17° \mathfrak{X} 24'55	1°04'23	evening set	1017 Apr 04 j 02:33	2° \mathfrak{X} 00'21	
min. Earth dist.	1016 May 03 j 15:07	16° \mathfrak{X} 45'41	0.55017 AU		1017 Apr 09 j 07:14	30° \mathfrak{R} \mathfrak{Y}	
morning rise	1016 May 11 j 14:12	13° \mathfrak{X} 12'31		inferior conj	1017 Apr 12 j 17:29	27° \mathfrak{Y} 56'13	0°50'52
direct	1016 May 15 j 01:56	12° \mathfrak{X} 46'18		minimum elong	1017 Apr 12 j 19:37	27° \mathfrak{Y} 52'50	0°50'07
morning max el	1016 May 28 j 05:58	19° \mathfrak{X} 06'57	22°59'19	min. Earth dist.	1017 Apr 15 j 05:30	26° \mathfrak{Y} 21'13	0.55855 AU
	1016 Jun 06 j 05:30	0° \mathfrak{I}		desc. node	1017 Apr 15 j 17:10	26° \mathfrak{Y} 03'21	
asc. node	1016 Jun 16 j 20:39	18° \mathfrak{I} 40'18		morning rise	1017 Apr 21 j 10:02	23° \mathfrak{Y} 17'16	
morning set	1016 Jun 20 j 00:12	25° \mathfrak{I} 08'10		direct	1017 Apr 25 j 20:03	22° \mathfrak{Y} 33'25	
	1016 Jun 22 j 07:18	0° \mathfrak{D}		morning max el	1017 May 09 j 21:01	29° \mathfrak{Y} 37'10	24°40'41
					1017 May 10 j 06:29	0° \mathfrak{X}	

	1017 May 30 j 12:54	0°♊		morning set	1018 May 19 j 23:18	25°♊00'36	
asc. node	1017 Jun 03 j 17:40	8°♊28'53		asc. node	1018 May 21 j 14:42	28°♊29'52	
morning set	1017 Jun 04 j 12:05	10°♊05'28			1018 May 22 j 07:27	0°♊	
superior conj	1017 Jun 11 j 11:58	25°♊12'13	1°13'48	superior conj	1018 May 26 j 23:16	10°♊10'40	0°53'58
minimum elong	1017 Jun 11 j 09:32	24°♊58'58	1°13'26	minimum elong	1018 May 26 j 21:10	9°♊59'12	0°53'34
max. Earth dist.	1017 Jun 13 j 00:45	28°♊31'31	1.32954 AU	max. Earth dist.	1018 May 27 j 11:15	11°♊16'30	1.32414 AU
	1017 Jun 13 j 17:10	0°♊		evening rise	1018 Jun 02 j 22:53	25°♊13'34	
evening rise	1017 Jun 18 j 17:57	10°♊33'53			1018 Jun 05 j 06:45	0°♊	
	1017 Jun 29 j 01:00	0°♊			1018 Jun 22 j 17:12	0°♊	
desc. node	1017 Jul 12 j 16:27	20°♊44'43		desc. node	1018 Jun 29 j 13:28	8°♊46'48	
	1017 Jul 20 j 16:54	0°♊		evening max el	1018 Jul 03 j 19:25	13°♊14'21	27°00'09
evening max el	1017 Jul 21 j 14:01	0°♊51'15	27°24'47	retrograde	1018 Jul 17 j 17:43	20°♊29'39	
retrograde	1017 Aug 04 j 07:46	8°♊09'40		evening set	1018 Jul 24 j 17:23	18°♊19'21	
evening set	1017 Aug 11 j 12:50	5°♊35'25		min. Earth dist.	1018 Jul 28 j 09:37	15°♊38'14	0.61048 AU
min. Earth dist.	1017 Aug 15 j 02:59	2°♊34'30	0.62983 AU	inferior conj	1018 Jul 31 j 14:24	12°♊53'00	-4°27'42
inferior conj	1017 Aug 17 j 21:53	29°♊51'05	-3°46'11	minimum elong	1018 Jul 31 j 18:44	12°♊43'38	4°27'00
minimum elong	1017 Aug 18 j 02:57	29°♊38'39	3°44'51	morning rise	1018 Aug 07 j 21:50	8°♊02'55	
	1017 Aug 17 j 18:15	30°♊		direct	1018 Aug 10 j 08:26	7°♊38'56	
morning rise	1017 Aug 24 j 18:23	24°♊40'16		morning max el	1018 Aug 17 j 11:41	11°♊11'08	18°01'37
direct	1017 Aug 27 j 06:13	24°♊11'17		asc. node	1018 Aug 17 j 13:55	11°♊16'37	
asc. node	1017 Aug 30 j 16:54	25°♊07'50			1018 Aug 29 j 23:06	0°♊	
morning max el	1017 Sep 02 j 22:07	27°♊37'03	17°52'18	morning set	1018 Sep 02 j 08:34	6°♊14'29	
	1017 Sep 05 j 01:30	0°♊					
morning set	1017 Sep 19 j 06:06	22°♊58'15		superior conj	1018 Sep 12 j 10:36	24°♊35'30	1°20'45
	1017 Sep 23 j 06:00	0°♊		minimum elong	1018 Sep 12 j 15:01	24°♊55'00	1°20'18
					1018 Sep 15 j 13:00	0°♊	
superior conj	1017 Sep 30 j 21:52	13°♊07'29	0°50'37	max. Earth dist.	1018 Sep 20 j 00:39	7°♊35'54	1.41999 AU
minimum elong	1017 Oct 01 j 02:20	13°♊26'13	0°50'03	evening rise	1018 Sep 25 j 22:11	17°♊12'19	
max. Earth dist.	1017 Oct 07 j 13:52	24°♊04'49	1.43617 AU	desc. node	1018 Sep 25 j 12:47	16°♊34'47	
desc. node	1017 Oct 08 j 15:45	25°♊48'54			1018 Oct 04 j 03:57	0°♊	
	1017 Oct 11 j 06:49	0°♊			1018 Oct 25 j 22:14	0°♊	
evening rise	1017 Oct 16 j 04:52	7°♊41'55		evening max el	1018 Oct 28 j 20:30	3°♊10'41	22°24'26
	1017 Oct 31 j 00:57	0°♊		retrograde	1018 Nov 07 j 11:52	8°♊54'29	
evening max el	1017 Nov 15 j 02:20	19°♊39'41	21°08'27	evening set	1018 Nov 12 j 01:22	7°♊04'07	
retrograde	1017 Nov 23 j 16:09	24°♊45'09		asc. node	1018 Nov 13 j 13:11	5°♊39'28	
asc. node	1017 Nov 26 j 16:09	23°♊54'44		inferior conj	1018 Nov 17 j 09:47	0°♊44'20	1°17'47
evening set	1017 Nov 27 j 17:48	23°♊11'40		minimum elong	1018 Nov 17 j 08:05	0°♊50'13	1°17'07
inferior conj	1017 Dec 03 j 02:38	16°♊58'34	2°04'26	min. Earth dist.	1018 Nov 17 j 07:45	0°♊51'23	0.67748 AU
minimum elong	1017 Dec 03 j 00:13	17°♊06'53	2°03'35		1018 Nov 17 j 22:37	30°♊	
min. Earth dist.	1017 Dec 03 j 11:36	16°♊27'42	0.67491 AU	morning rise	1018 Nov 22 j 14:39	24°♊33'05	
morning rise	1017 Dec 08 j 06:26	10°♊45'18		direct	1018 Nov 27 j 05:46	22°♊38'19	
direct	1017 Dec 13 j 12:29	8°♊28'05		morning max el	1018 Dec 06 j 14:59	28°♊10'39	22°13'48
morning max el	1017 Dec 24 j 03:37	14°♊48'18	23°41'14		1018 Dec 08 j 08:24	0°♊	
desc. node	1018 Jan 04 j 15:01	28°♊44'15		desc. node	1018 Dec 22 j 12:02	18°♊31'35	
	1018 Jan 05 j 13:10	0°♊			1018 Dec 30 j 05:57	0°♊	
	1018 Jan 25 j 07:13	0°♊		morning set	1019 Jan 08 j 20:31	15°♊04'13	
morning set	1018 Jan 28 j 12:40	5°♊24'51		max. Earth dist.	1019 Jan 14 j 08:20	24°♊08'07	1.40912 AU
max. Earth dist.	1018 Feb 01 j 11:25	12°♊15'10	1.38779 AU		1019 Jan 17 j 18:54	0°♊	
superior conj	1018 Feb 08 j 21:23	25°♊46'07	-1°49'41	superior conj	1019 Jan 22 j 03:27	7°♊38'50	-2°01'55
minimum elong	1018 Feb 09 j 01:12	26°♊04'04	1°49'22	minimum elong	1019 Jan 22 j 05:14	7°♊46'45	2°01'52
	1018 Feb 11 j 02:55	0°♊		evening rise	1019 Feb 01 j 10:00	26°♊32'01	
evening rise	1018 Feb 18 j 00:30	13°♊23'08			1019 Feb 03 j 06:34	0°♊	
asc. node	1018 Feb 22 j 15:26	22°♊14'14		asc. node	1019 Feb 09 j 12:29	11°♊13'43	
	1018 Feb 27 j 01:00	0°♊		evening max el	1019 Feb 17 j 16:29	22°♊31'45	18°17'09
evening max el	1018 Mar 06 j 09:38	9°♊48'29	18°46'30	retrograde	1019 Feb 24 j 19:10	26°♊04'18	
retrograde	1018 Mar 14 j 12:25	13°♊45'04		evening set	1019 Feb 27 j 07:51	25°♊38'26	
evening set	1018 Mar 16 j 19:24	13°♊27'26		inferior conj	1019 Mar 06 j 09:43	20°♊56'55	3°17'29
inferior conj	1018 Mar 24 j 15:01	9°♊06'46	2°21'27	minimum elong	1019 Mar 06 j 12:56	20°♊50'00	3°16'56
minimum elong	1018 Mar 24 j 19:12	8°♊59'03	2°20'19	min. Earth dist.	1019 Mar 09 j 19:40	18°♊01'54	0.59493 AU
min. Earth dist.	1018 Mar 27 j 22:26	6°♊41'25	0.57456 AU	morning rise	1019 Mar 13 j 15:40	15°♊19'30	
morning rise	1018 Apr 01 j 15:54	3°♊54'40		direct	1019 Mar 20 j 01:34	13°♊27'41	
desc. node	1018 Apr 02 j 14:11	3°♊31'57		desc. node	1019 Mar 20 j 11:14	13°♊28'07	
direct	1018 Apr 07 j 04:23	2°♊40'01		morning max el	1019 Apr 03 j 09:10	21°♊13'11	27°16'26
morning max el	1018 Apr 21 j 12:36	10°♊11'13	26°11'13		1019 Apr 11 j 00:24	0°♊	
	1018 May 06 j 15:23	0°♊			1019 Apr 29 j 11:28	0°♊	

morning set	1019 May 04 j 08:08	9°846'50			1020 Apr 04 j 10:56	0°9	
asc. node	1019 May 08 j 11:44	18°837'42		morning set	1020 Apr 17 j 12:43	24°917'54	
					1020 Apr 20 j 06:30	0°8	
superior conj	1019 May 11 j 10:59	25°807'37	0°30'59	max. Earth dist.	1020 Apr 23 j 10:36	6°847'38	1.32473 AU
minimum elong	1019 May 11 j 09:39	25°800'16	0°30'41	asc. node	1020 Apr 24 j 08:48	8°848'13	
max. Earth dist.	1019 May 10 j 23:48	24°806'13	1.32255 AU				
	1019 May 13 j 16:12	0°II		superior conj	1020 Apr 24 j 21:30	9°857'25	0°05'37
evening rise	1019 May 18 j 08:05	10°II03'51		minimum elong	1020 Apr 24 j 21:14	9°856'00	0°05'33
	1019 May 28 j 14:39	0°☾		behind sun begin	1020 Apr 24 j 16:26	9°829'47	
evening max el	1019 Jun 15 j 18:12	24°☾51'31	26°03'03	behind sun end	1020 Apr 25 j 02:03	10°822'15	
desc. node	1019 Jun 16 j 10:30	25°☾29'37		evening rise	1020 May 01 j 19:32	24°857'40	
	1019 Jun 22 j 12:52	0°Ω			1020 May 04 j 05:30	0°II	
retrograde	1019 Jun 29 j 18:40	2°Ω02'44			1020 May 22 j 05:10	0°☾	
evening set	1019 Jul 06 j 00:47	0°Ω27'55		evening max el	1020 May 27 j 10:22	5°☾45'39	24°40'17
	1019 Jul 06 j 22:09	30°R☾		desc. node	1020 Jun 02 j 07:31	10°☾21'56	
min. Earth dist.	1019 Jul 10 j 06:52	27°☾50'10	0.58991 AU	retrograde	1020 Jun 10 j 08:50	12°☾49'02	
inferior conj	1019 Jul 13 j 14:11	25°☾22'02	-4°50'35	evening set	1020 Jun 15 j 08:46	11°☾52'37	
minimum elong	1019 Jul 13 j 15:36	25°☾19'23	4°50'31	min. Earth dist.	1020 Jun 20 j 21:36	9°☾00'42	0.57068 AU
morning rise	1019 Jul 21 j 08:37	20°☾54'33		inferior conj	1020 Jun 23 j 18:17	7°☾09'19	-4°42'20
direct	1019 Jul 23 j 20:31	20°☾33'34		minimum elong	1020 Jun 23 j 14:47	7°☾15'02	4°42'01
morning max el	1019 Jul 31 j 19:42	24°☾22'04	18°30'55	morning rise	1020 Jul 01 j 23:33	3°☾03'05	
asc. node	1019 Aug 04 j 10:57	28°☾31'52		direct	1020 Jul 04 j 14:18	2°☾43'59	
	1019 Aug 05 j 12:34	0°Ω		morning max el	1020 Jul 13 j 19:17	7°☾01'12	19°21'16
morning set	1019 Aug 16 j 23:37	20°Ω07'05		asc. node	1020 Jul 21 j 08:00	16°☾39'25	
	1019 Aug 22 j 02:46	0°♄			1020 Jul 28 j 17:37	0°Ω	
				morning set	1020 Jul 30 j 23:27	4°Ω26'00	
superior conj	1019 Aug 25 j 22:03	7°♄10'37	1°38'39				
minimum elong	1019 Aug 26 j 00:43	7°♄23'01	1°38'27	superior conj	1020 Aug 08 j 02:37	20°Ω37'22	1°45'59
max. Earth dist.	1019 Sep 02 j 06:32	20°♄25'16	1.40044 AU	minimum elong	1020 Aug 08 j 03:17	20°Ω40'34	1°45'58
evening rise	1019 Sep 06 j 13:16	27°♄43'15			1020 Aug 13 j 00:30	0°♄	
	1019 Sep 07 j 22:12	0°♄		max. Earth dist.	1020 Aug 14 j 10:04	2°♄35'13	1.38009 AU
desc. node	1019 Sep 12 j 09:49	7°♄15'14		evening rise	1020 Aug 18 j 04:41	9°♄22'34	
	1019 Sep 27 j 18:03	0°♄		desc. node	1020 Aug 29 j 06:51	27°♄45'57	
evening max el	1019 Oct 11 j 10:33	16°♄44'35	23°44'31		1020 Aug 30 j 17:30	0°♄	
retrograde	1019 Oct 22 j 04:27	23°♄04'34			1020 Sep 22 j 13:52	0°♄	
evening set	1019 Oct 27 j 07:29	20°♄56'35		evening max el	1020 Sep 22 j 22:30	0°♄21'22	25°02'00
asc. node	1019 Oct 31 j 10:12	16°♄17'40		retrograde	1020 Oct 04 j 16:58	7°♄10'54	
min. Earth dist.	1019 Nov 01 j 04:18	15°♄16'38	0.67667 AU	evening set	1020 Oct 10 j 10:26	4°♄46'15	
inferior conj	1019 Nov 01 j 16:51	14°♄33'53	0°26'20		1020 Oct 14 j 16:58	30°R♄	
minimum elong	1019 Nov 01 j 16:13	14°♄36'02	0°26'04	min. Earth dist.	1020 Oct 14 j 22:51	29°♄40'48	0.67258 AU
morning rise	1019 Nov 07 j 00:56	8°♄27'02		inferior conj	1020 Oct 15 j 22:04	28°♄24'34	-0°28'38
direct	1019 Nov 11 j 02:05	6°♄54'42		minimum elong	1020 Oct 15 j 22:47	28°♄22'13	0°28'19
morning max el	1019 Nov 19 j 08:41	11°♄42'54	20°53'36	asc. node	1020 Oct 17 j 07:15	26°♄37'19	
	1019 Dec 03 j 11:42	0°♄		morning rise	1020 Oct 21 j 11:18	22°♄24'35	
desc. node	1019 Dec 09 j 09:05	8°♄41'18		direct	1020 Oct 25 j 00:09	21°♄12'28	
morning set	1019 Dec 19 j 01:59	23°♄31'52		morning max el	1020 Nov 01 j 10:11	25°♄25'50	19°45'29
	1019 Dec 23 j 04:32	0°☾			1020 Nov 05 j 09:38	0°♄	
max. Earth dist.	1019 Dec 27 j 12:50	6°☾59'16	1.42813 AU	greatest brilliancy	1020 Nov 15 j 10:55	14°♄10'52	-0.7m
				desc. node	1020 Nov 25 j 06:08	29°♄06'30	
superior conj	1020 Jan 03 j 10:20	18°☾25'06	-2°01'23		1020 Nov 25 j 20:00	0°♄	
minimum elong	1020 Jan 03 j 07:44	18°☾14'06	2°01'19	morning set	1020 Nov 26 j 22:32	1°♄42'24	
	1020 Jan 10 j 03:35	0°♄		max. Earth dist.	1020 Dec 09 j 00:42	20°♄37'59	1.44225 AU
evening rise	1020 Jan 15 j 04:59	8°♄57'48					
asc. node	1020 Jan 27 j 09:32	29°♄39'51		superior conj	1020 Dec 13 j 14:31	27°♄57'48	-1°43'33
	1020 Jan 27 j 15:04	0°♄		minimum elong	1020 Dec 13 j 07:01	27°♄27'30	1°42'56
evening max el	1020 Feb 01 j 03:41	5°♄36'12	18°07'28		1020 Dec 14 j 20:43	0°☾	
retrograde	1020 Feb 07 j 17:51	9°♄00'32		evening rise	1020 Dec 27 j 05:02	20°☾31'28	
evening set	1020 Feb 10 j 11:27	8°♄25'11			1021 Jan 01 j 19:09	0°♄	
inferior conj	1020 Feb 16 j 23:10	3°♄22'30	3°43'03	asc. node	1021 Jan 13 j 06:35	17°♄21'47	
minimum elong	1020 Feb 17 j 00:18	3°♄19'42	3°43'00	evening max el	1021 Jan 14 j 16:14	18°♄53'25	18°16'55
min. Earth dist.	1020 Feb 20 j 00:13	0°♄22'38	0.61612 AU	retrograde	1021 Jan 21 j 03:42	22°♄22'45	
	1020 Feb 20 j 09:54	30°R♄		evening set	1021 Jan 24 j 02:05	21°♄37'04	
morning rise	1020 Feb 23 j 11:44	27°♄28'40		inferior conj	1021 Jan 30 j 03:19	16°♄14'45	3°45'33
direct	1020 Mar 01 j 09:02	25°♄03'53		minimum elong	1021 Jan 30 j 02:31	16°♄16'57	3°45'30
desc. node	1020 Mar 06 j 08:16	26°♄11'28		min. Earth dist.	1021 Feb 01 j 14:09	13°♄31'29	0.63550 AU
	1020 Mar 12 j 06:39	0°♄		morning rise	1021 Feb 05 j 02:11	10°♄11'06	
morning max el	1020 Mar 15 j 12:11	2°♄56'28	27°46'50	direct	1021 Feb 12 j 00:58	7°♄25'15	

desc. node	1021 Feb 21 j 05:19	11° \approx 14'15		desc. node	1022 Feb 08 j 02:23	28° \approx 01'08	
morning max el	1021 Feb 25 j 20:02	15° \approx 18'46	27°40'05		1022 Feb 10 j 00:10	0° \approx	
	1021 Mar 09 j 20:44	0° \approx			1022 Mar 03 j 14:35	0° \approx	
	1021 Mar 28 j 02:14	0° \approx		morning set	1022 Mar 15 j 22:43	21° \approx 59'40	
morning set	1021 Apr 01 j 10:37	8° \approx 25'23			1022 Mar 20 j 00:14	0° \approx	
max. Earth dist.	1021 Apr 06 j 15:26	19° \approx 06'08	1.33087 AU	max. Earth dist.	1022 Mar 20 j 10:24	0° \approx 51'20	1.34141 AU
superior conj	1021 Apr 09 j 05:00	24° \approx 33'45	-0°21'21	superior conj	1022 Mar 24 j 07:27	8° \approx 50'22	-0°48'47
minimum elong	1021 Apr 09 j 06:02	24° \approx 39'20	0°21'07	minimum elong	1022 Mar 24 j 09:52	9° \approx 02'57	0°48'19
asc. node	1021 Apr 11 j 05:52	28° \approx 56'48		asc. node	1022 Mar 29 j 02:55	18° \approx 59'22	
	1021 Apr 11 j 17:35	0° \approx		evening rise	1022 Mar 31 j 17:32	24° \approx 28'28	
evening rise	1021 Apr 16 j 07:17	9° \approx 47'53			1022 Apr 03 j 10:06	0° \approx	
	1021 Apr 26 j 19:24	0° \approx		evening max el	1022 Apr 20 j 20:13	26° \approx 58'51	21°32'45
evening max el	1021 May 09 j 00:32	16° \approx 17'37	23°05'17		1022 Apr 24 j 11:36	0° \approx	
desc. node	1021 May 20 j 04:32	22° \approx 47'35		retrograde	1022 May 03 j 02:18	2° \approx 57'57	
retrograde	1021 May 22 j 10:55	22° \approx 59'16		evening set	1022 May 05 j 12:39	2° \approx 44'33	
evening set	1021 May 25 j 23:18	22° \approx 32'07		desc. node	1022 May 07 j 01:34	2° \approx 23'00	
min. Earth dist.	1021 Jun 02 j 09:55	19° \approx 12'11	0.55615 AU		1022 May 12 j 15:03	30° \approx 8	
inferior conj	1021 Jun 04 j 02:51	18° \approx 12'34	-3°50'25	inferior conj	1022 May 14 j 22:31	28° \approx 43'28	-2°13'40
minimum elong	1021 Jun 03 j 19:30	18° \approx 23'19	3°48'42	minimum elong	1022 May 14 j 16:28	28° \approx 51'57	2°11'38
morning rise	1021 Jun 12 j 18:16	14° \approx 19'02		min. Earth dist.	1022 May 14 j 22:28	28° \approx 43'32	0.54959 AU
direct	1021 Jun 15 j 12:57	14° \approx 00'38		morning rise	1022 May 23 j 21:01	24° \approx 45'57	
morning max el	1021 Jun 26 j 08:13	19° \approx 00'40	20°32'35	direct	1022 May 27 j 00:03	24° \approx 24'33	
	1021 Jul 04 j 23:52	0° \approx			1022 Jun 08 j 02:46	0° \approx	
asc. node	1021 Jul 08 j 05:05	5° \approx 27'14		morning max el	1022 Jun 08 j 10:01	0° \approx 16'41	22°02'07
morning set	1021 Jul 15 j 05:19	19° \approx 03'55		asc. node	1022 Jun 25 j 02:08	24° \approx 44'52	
	1021 Jul 20 j 12:26	0° \approx			1022 Jun 27 j 17:31	0° \approx	
				morning set	1022 Jun 29 j 14:56	3° \approx 53'55	
superior conj	1021 Jul 22 j 19:28	4° \approx 41'55	1°44'49	superior conj	1022 Jul 06 j 20:45	19° \approx 12'09	1°36'53
minimum elong	1021 Jul 22 j 18:31	4° \approx 37'04	1°44'47	minimum elong	1022 Jul 06 j 18:47	19° \approx 01'44	1°36'43
max. Earth dist.	1021 Jul 27 j 16:43	14° \approx 25'26	1.36138 AU	max. Earth dist.	1022 Jul 10 j 07:33	26° \approx 21'41	1.34597 AU
evening rise	1021 Jul 31 j 17:18	22° \approx 03'34			1022 Jul 12 j 02:42	0° \approx	
	1021 Aug 05 j 03:04	0° \approx		evening rise	1022 Jul 14 j 22:18	5° \approx 32'55	
desc. node	1021 Aug 16 j 03:52	18° \approx 01'46			1022 Jul 28 j 20:01	0° \approx	
	1021 Aug 24 j 12:32	0° \approx		desc. node	1022 Aug 03 j 00:53	7° \approx 55'16	
evening max el	1021 Sep 05 j 10:11	13° \approx 59'28	26°09'29	evening max el	1022 Aug 18 j 22:17	27° \approx 32'05	26°59'15
retrograde	1021 Sep 18 j 00:48	21° \approx 08'29			1022 Aug 21 j 16:27	0° \approx	
evening set	1021 Sep 24 j 08:20	18° \approx 30'39		retrograde	1022 Sep 01 j 03:15	4° \approx 49'40	
min. Earth dist.	1021 Sep 28 j 13:09	14° \approx 01'15	0.66515 AU	evening set	1022 Sep 07 j 22:55	2° \approx 05'19	
inferior conj	1021 Sep 29 j 23:38	12° \approx 14'13	-1°25'35		1022 Sep 10 j 05:06	30° \approx 8	
minimum elong	1021 Sep 30 j 01:52	12° \approx 07'18	1°24'40	min. Earth dist.	1022 Sep 11 j 20:46	28° \approx 12'34	0.65424 AU
asc. node	1021 Oct 04 j 04:17	7° \approx 36'09		inferior conj	1022 Sep 13 j 19:28	25° \approx 58'22	-2°22'43
morning rise	1021 Oct 05 j 19:47	6° \approx 23'44		minimum elong	1022 Sep 13 j 23:10	25° \approx 47'44	2°21'20
direct	1021 Oct 08 j 22:28	5° \approx 28'21		morning rise	1022 Sep 20 j 00:05	20° \approx 20'28	
morning max el	1021 Oct 15 j 18:45	9° \approx 17'07	18°52'12	asc. node	1022 Sep 21 j 01:20	19° \approx 54'33	
	1021 Oct 30 j 14:31	0° \approx		direct	1022 Sep 22 j 19:02	19° \approx 38'00	
morning set	1021 Nov 06 j 10:52	10° \approx 46'16		morning max el	1022 Sep 29 j 08:15	23° \approx 11'16	18°15'11
desc. node	1021 Nov 12 j 03:11	19° \approx 42'44			1022 Oct 04 j 19:01	0° \approx	
	1021 Nov 18 j 16:25	0° \approx		morning set	1022 Oct 18 j 03:31	21° \approx 15'14	
max. Earth dist.	1021 Nov 21 j 17:19	4° \approx 46'22	1.44985 AU		1022 Oct 23 j 12:19	0° \approx	
				desc. node	1022 Oct 30 j 00:11	10° \approx 25'35	
superior conj	1021 Nov 22 j 20:54	6° \approx 34'52	-1°07'17	superior conj	1022 Nov 01 j 22:47	15° \approx 05'35	-0°19'28
minimum elong	1021 Nov 22 j 12:57	6° \approx 03'37	1°06'22	minimum elong	1022 Nov 01 j 20:15	14° \approx 55'37	0°19'07
	1021 Dec 07 j 13:45	0° \approx		max. Earth dist.	1022 Nov 04 j 11:57	19° \approx 06'51	1.45013 AU
evening rise	1021 Dec 08 j 06:26	1° \approx 07'21			1022 Nov 11 j 10:41	0° \approx	
	1021 Dec 27 j 02:23	0° \approx		evening rise	1022 Nov 18 j 08:32	10° \approx 47'03	
evening max el	1021 Dec 29 j 03:34	2° \approx 18'13	18°44'39	greatest brilliancy	1022 Nov 30 j 03:47	29° \approx 04'10	-0.7m
asc. node	1021 Dec 31 j 03:37	4° \approx 07'12			1022 Nov 30 j 18:30	0° \approx	
retrograde	1022 Jan 04 j 20:34	6° \approx 03'34		evening max el	1022 Dec 12 j 11:32	15° \approx 46'30	19°29'22
evening set	1022 Jan 08 j 00:32	5° \approx 06'29		asc. node	1022 Dec 18 j 00:38	19° \approx 41'24	
	1022 Jan 13 j 07:18	30° \approx 8		retrograde	1022 Dec 19 j 17:06	19° \approx 57'08	
inferior conj	1022 Jan 13 j 18:18	29° \approx 26'34	3°31'13	evening set	1022 Dec 23 j 04:08	18° \approx 47'09	
minimum elong	1022 Jan 13 j 16:15	29° \approx 32'51	3°30'54	inferior conj	1022 Dec 28 j 16:54	12° \approx 52'07	3°04'33
min. Earth dist.	1022 Jan 15 j 13:44	27° \approx 14'22	0.65157 AU	minimum elong	1022 Dec 28 j 14:15	13° \approx 00'44	3°03'55
morning rise	1022 Jan 19 j 07:32	23° \approx 17'24		min. Earth dist.	1022 Dec 29 j 21:44	11° \approx 18'18	0.66369 AU
direct	1022 Jan 26 j 00:08	20° \approx 25'07					
morning max el	1022 Feb 08 j 05:43	28° \approx 09'30	26°59'54				

morning rise	1023 Jan 03 j 00:07	6°♂40'01		minimum elong	1023 Dec 12 j 17:48	26°♂36'00	2°27'42
direct	1023 Jan 09 j 05:16	3°♂54'39		min. Earth dist.	1023 Dec 13 j 12:10	25°♂33'38	0.67188 AU
morning max el	1023 Jan 21 j 14:56	11°♂16'10	25°54'00	morning rise	1023 Dec 18 j 00:44	20°♂13'54	
desc. node	1023 Jan 25 j 23:25	16°♂02'14		direct	1023 Dec 23 j 15:34	17°♂44'53	
	1023 Feb 05 j 14:22	0°♂		morning max el	1024 Jan 03 j 23:16	24°♂29'55	24°31'55
	1023 Feb 24 j 05:24	0°♂			1024 Jan 08 j 22:07	0°♂	
morning set	1023 Feb 26 j 20:52	4°♂48'13		desc. node	1024 Jan 12 j 20:26	4°♂55'22	
max. Earth dist.	1023 Mar 02 j 17:38	12°♂05'03	1.35655 AU		1024 Jan 30 j 01:30	0°♂	
				morning set	1024 Feb 08 j 23:23	16°♂34'13	
superior conj	1023 Mar 08 j 02:22	22°♂40'07	-1°15'15	max. Earth dist.	1024 Feb 12 j 15:27	23°♂07'37	1.37567 AU
minimum elong	1023 Mar 08 j 05:56	22°♂58'10	1°14'40		1024 Feb 16 j 08:32	0°♂	
	1023 Mar 11 j 16:34	0°♂					
asc. node	1023 Mar 15 j 23:57	8°♂51'42		superior conj	1024 Feb 19 j 10:23	5°♂52'43	-1°38'40
evening rise	1023 Mar 16 j 00:16	8°♂53'15		minimum elong	1024 Feb 19 j 14:29	6°♂12'30	1°38'13
	1023 Mar 27 j 12:17	0°♂		evening rise	1024 Feb 28 j 01:05	22°♂54'22	
evening max el	1023 Apr 03 j 02:32	8°♂12'42	20°13'24	asc. node	1024 Mar 01 j 20:59	28°♂28'10	
retrograde	1023 Apr 13 j 16:09	13°♂18'22			1024 Mar 02 j 16:03	0°♂	
evening set	1023 Apr 15 j 17:49	13°♂07'29		evening max el	1024 Mar 15 j 20:06	20°♂04'35	19°12'27
desc. node	1023 Apr 23 j 22:36	9°♂38'38		retrograde	1024 Mar 24 j 17:51	24°♂22'34	
inferior conj	1023 Apr 24 j 18:37	9°♂09'08	-0°14'28	evening set	1024 Mar 26 j 21:49	24°♂08'25	
minimum elong	1023 Apr 24 j 17:57	9°♂10'08	0°14'14	inferior conj	1024 Apr 04 j 04:33	19°♂57'48	1°33'20
transit middle	1023 Apr 24 j 17:57	9°♂10'08	0°14'14	minimum elong	1024 Apr 04 j 08:01	19°♂51'57	1°32'13
transit begin	1023 Apr 24 j 16:09	9°♂12'48		min. Earth dist.	1024 Apr 07 j 02:51	17°♂59'54	0.56464 AU
transit end	1023 Apr 24 j 19:45	9°♂07'28		desc. node	1024 Apr 09 j 19:38	16°♂22'30	
min. Earth dist.	1023 Apr 26 j 11:55	8°♂08'07	0.55267 AU	morning rise	1024 Apr 12 j 15:18	15°♂04'41	
morning rise	1023 May 03 j 16:25	4°♂49'17		direct	1024 Apr 17 j 12:43	14°♂09'19	
direct	1023 May 07 j 12:55	4°♂16'56		morning max el	1024 May 01 j 17:48	21°♂25'37	25°21'22
morning max el	1023 May 21 j 03:20	10°♂57'41	23°42'35		1024 May 09 j 04:51	0°♂	
	1023 Jun 04 j 08:09	0°♂			1024 May 26 j 18:34	0°♂	
asc. node	1023 Jun 11 j 23:12	14°♂24'30		morning set	1024 May 28 j 14:19	3°♂47'49	
morning set	1023 Jun 14 j 02:30	18°♂50'37		asc. node	1024 May 28 j 20:14	4°♂19'03	
	1023 Jun 19 j 07:21	0°♂					
superior conj	1023 Jun 21 j 03:40	3°♂59'13	1°23'32	superior conj	1024 Jun 04 j 13:54	18°♂55'00	1°05'50
minimum elong	1023 Jun 21 j 01:14	3°♂46'10	1°23'13	minimum elong	1024 Jun 04 j 11:33	18°♂42'12	1°05'25
max. Earth dist.	1023 Jun 23 j 08:02	8°♂39'30	1.33449 AU	max. Earth dist.	1024 Jun 05 j 15:56	21°♂17'08	1.32688 AU
evening rise	1023 Jun 28 j 15:18	19°♂38'05			1024 Jun 09 j 17:16	0°♂	
	1023 Jul 04 j 00:06	0°♂		evening rise	1024 Jun 11 j 16:42	4°♂07'27	
desc. node	1023 Jul 20 j 21:53	27°♂16'53			1024 Jun 25 j 17:23	0°♂	
	1023 Jul 22 j 22:35	0°♂		desc. node	1024 Jul 06 j 18:55	15°♂53'03	
evening max el	1023 Aug 01 j 09:45	10°♂48'14	27°24'02	evening max el	1024 Jul 13 j 18:03	23°♂33'44	27°18'16
retrograde	1023 Aug 14 j 23:42	18°♂06'34			1024 Jul 23 j 04:26	0°♂	
evening set	1023 Aug 22 j 03:19	15°♂25'19		retrograde	1024 Jul 27 j 13:31	0°♂50'05	
min. Earth dist.	1023 Aug 25 j 19:32	12°♂07'11	0.63980 AU		1024 Jul 31 j 18:33	30°♂♂	
inferior conj	1023 Aug 28 j 07:06	9°♂31'57	-3°17'22	evening set	1024 Aug 03 j 17:51	28°♂24'23	
minimum elong	1023 Aug 28 j 11:54	9°♂19'23	3°15'52	min. Earth dist.	1024 Aug 07 j 07:55	25°♂33'45	0.62197 AU
morning rise	1023 Sep 03 j 21:31	4°♂10'02		inferior conj	1024 Aug 10 j 07:34	22°♂47'45	-4°05'26
direct	1023 Sep 06 j 11:17	3°♂36'54		minimum elong	1024 Aug 10 j 12:33	22°♂36'09	4°04'19
asc. node	1023 Sep 07 j 22:23	3°♂47'46		morning rise	1024 Aug 17 j 08:41	17°♂45'23	
morning max el	1023 Sep 13 j 00:04	7°♂02'55	17°55'25	direct	1024 Aug 19 j 19:49	17°♂18'41	
	1023 Sep 28 j 04:40	0°♂		asc. node	1024 Aug 24 j 19:26	19°♂10'56	
morning set	1023 Sep 29 j 23:20	3°♂03'13		morning max el	1024 Aug 26 j 15:21	20°♂45'41	17°53'54
					1024 Sep 02 j 13:47	0°♂	
superior conj	1023 Oct 12 j 17:15	24°♂28'02	0°27'41	morning set	1024 Sep 11 j 16:22	15°♂52'18	
minimum elong	1023 Oct 12 j 20:14	24°♂40'11	0°27'17		1024 Sep 19 j 14:45	0°♂	
	1023 Oct 16 j 03:15	0°♂		superior conj	1024 Sep 22 j 14:44	5°♂11'07	1°04'59
desc. node	1023 Oct 16 j 21:10	1°♂11'55		minimum elong	1024 Sep 22 j 19:30	5°♂31'33	1°04'24
max. Earth dist.	1023 Oct 18 j 05:58	3°♂22'56	1.44320 AU	max. Earth dist.	1024 Sep 29 j 20:17	17°♂16'16	1.42986 AU
evening rise	1023 Oct 28 j 18:35	19°♂50'54		desc. node	1024 Oct 02 j 18:12	21°♂59'00	
	1023 Nov 04 j 10:08	0°♂		evening rise	1024 Oct 07 j 04:19	28°♂59'03	
evening max el	1023 Nov 25 j 14:26	29°♂15'29	20°28'51		1024 Oct 07 j 19:56	0°♂	
	1023 Nov 26 j 08:15	0°♂			1024 Oct 28 j 03:32	0°♂	
retrograde	1023 Dec 03 j 14:50	3°♂59'04		evening max el	1024 Nov 07 j 11:35	12°♂45'13	21°39'55
asc. node	1023 Dec 04 j 21:40	3°♂49'45		retrograde	1024 Nov 16 j 11:48	18°♂06'52	
evening set	1023 Dec 07 j 10:41	2°♂34'28		evening set	1024 Nov 20 j 18:22	16°♂26'05	
	1023 Dec 10 j 02:26	30°♂♂		asc. node	1024 Nov 20 j 18:41	16°♂25'26	
inferior conj	1023 Dec 12 j 20:26	26°♂27'01	2°28'32	inferior conj	1024 Nov 26 j 02:50	10°♂09'34	1°45'18

minimum elong	1024 Nov 26 j 00:40	10°♊17'03	1°44'31	inferior conj	1025 Nov 10 j 10:09	23°♍57'03	0°56'28
min. Earth dist.	1024 Nov 26 j 06:55	9°♊55'25	0.67639 AU	minimum elong	1025 Nov 10 j 08:53	24°♍01'28	0°55'57
morning rise	1024 Dec 01 j 06:49	3°♊57'06		min. Earth dist.	1025 Nov 10 j 03:34	24°♍19'48	0.67750 AU
direct	1024 Dec 06 j 06:23	1°♊49'31		morning rise	1025 Nov 15 j 16:08	17°♍47'18	
morning max el	1024 Dec 16 j 08:44	7°♊49'13	23°03'44	direct	1025 Nov 20 j 01:02	16°♍02'27	
desc. node	1024 Dec 29 j 17:26	24°♊26'03		morning max el	1025 Nov 28 j 22:33	21°♍15'37	21°38'26
	1025 Jan 02 j 15:11	0°♊		desc. node	1025 Dec 06 j 07:55	0°♊	
morning set	1025 Jan 20 j 00:08	27°♊02'33			1025 Dec 16 j 14:29	14°♊23'23	
	1025 Jan 21 j 18:28	0°♊			1025 Dec 26 j 22:15	0°♊	
max. Earth dist.	1025 Jan 24 j 10:45	4°♊34'27	1.39693 AU	morning set	1025 Dec 30 j 19:40	6°♊07'13	
				max. Earth dist.	1026 Jan 06 j 10:13	16°♊50'05	1.41761 AU
superior conj	1025 Feb 01 j 03:21	18°♋17'44	-1°56'07				
minimum elong	1025 Feb 01 j 06:35	18°♋32'35	1°55'56	superior conj	1026 Jan 14 j 00:05	29°♋42'27	-2°03'33
	1025 Feb 07 j 08:51	0°♋		minimum elong	1026 Jan 14 j 00:16	29°♋43'14	2°03'33
evening rise	1025 Feb 10 j 17:10	6°♋24'41			1026 Jan 14 j 04:07	0°♋	
asc. node	1025 Feb 16 j 18:02	17°♋43'05		evening rise	1026 Jan 24 j 20:58	19°♋15'33	
	1025 Feb 24 j 15:59	0°♋			1026 Jan 30 j 19:08	0°♋	
evening max el	1025 Feb 26 j 22:54	2°♋30'55	18°31'33	asc. node	1026 Feb 03 j 15:04	6°♋29'03	
retrograde	1025 Mar 06 j 14:10	6°♋15'43		evening max el	1026 Feb 10 j 07:54	15°♋23'23	18°10'42
evening set	1025 Mar 08 j 23:32	5°♋54'53		retrograde	1026 Feb 17 j 04:08	18°♋50'53	
inferior conj	1025 Mar 16 j 11:11	1°♋25'15	2°49'20	evening set	1026 Feb 19 j 18:51	18°♋21'16	
minimum elong	1025 Mar 16 j 15:12	1°♋17'18	2°48'24	inferior conj	1026 Feb 26 j 14:16	13°♋30'54	3°31'37
	1025 Mar 18 j 06:08	30°♋		minimum elong	1026 Feb 26 j 16:38	13°♋25'29	3°31'20
min. Earth dist.	1025 Mar 19 j 21:17	28°♋44'28	0.58287 AU	min. Earth dist.	1026 Mar 01 j 21:33	10°♋30'27	0.60393 AU
morning rise	1025 Mar 24 j 04:03	26°♋00'58		morning rise	1026 Mar 05 j 12:24	7°♋45'12	
desc. node	1025 Mar 27 j 16:40	24°♋45'54		direct	1026 Mar 12 j 04:22	5°♋38'01	
direct	1025 Mar 30 j 02:23	24°♋31'00		desc. node	1026 Mar 14 j 13:42	5°♋53'33	
	1025 Apr 11 j 02:36	0°♋		morning max el	1026 Mar 26 j 10:48	13°♋28'24	27°33'59
morning max el	1025 Apr 13 j 11:20	2°♋09'28	26°42'49		1026 Apr 08 j 15:23	0°♋	
	1025 May 03 j 10:13	0°♋			1026 Apr 25 j 16:52	0°♋	
morning set	1025 May 13 j 00:47	18°♋39'58		morning set	1026 Apr 27 j 08:06	3°♋20'51	
asc. node	1025 May 15 j 17:17	24°♋23'25		asc. node	1026 May 02 j 14:22	14°♋33'04	
	1025 May 18 j 07:07	0°♋		max. Earth dist.	1026 May 03 j 16:01	16°♋53'01	1.32290 AU
superior conj	1025 May 20 j 01:35	3°♋53'20	0°44'34	superior conj	1026 May 04 j 13:03	18°♋48'15	0°20'29
minimum elong	1025 May 19 j 23:47	3°♋43'22	0°44'11	minimum elong	1026 May 04 j 12:08	18°♋43'14	0°20'17
max. Earth dist.	1025 May 20 j 03:51	4°♋05'44	1.32303 AU		1026 May 09 j 16:03	0°♋	
evening rise	1025 May 26 j 23:44	18°♋52'10		evening rise	1026 May 11 j 10:07	3°♋44'46	
	1025 Jun 01 j 12:21	0°♋			1026 May 25 j 11:25	0°♋	
	1025 Jun 20 j 15:23	0°♋		evening max el	1026 Jun 07 j 16:18	16°♋54'51	25°30'24
desc. node	1025 Jun 23 j 15:58	3°♋24'34		desc. node	1026 Jun 10 j 12:59	19°♋25'16	
evening max el	1025 Jun 25 j 20:36	5°♋36'52	26°39'24	retrograde	1026 Jun 21 j 17:08	24°♋04'30	
retrograde	1025 Jul 09 j 19:58	12°♋51'00		evening set	1026 Jun 27 j 11:34	22°♋46'20	
evening set	1025 Jul 16 j 13:58	10°♋54'20		min. Earth dist.	1026 Jul 02 j 04:24	20°♋04'22	0.58133 AU
min. Earth dist.	1025 Jul 20 j 10:05	8°♋17'10	0.60178 AU	inferior conj	1026 Jul 05 j 09:10	17°♋49'21	-4°51'45
inferior conj	1025 Jul 23 j 17:23	5°♋36'27	-4°40'20	minimum elong	1026 Jul 05 j 08:38	17°♋50'17	4°51'45
minimum elong	1025 Jul 23 j 20:47	5°♋29'32	4°39'57	morning rise	1026 Jul 13 j 08:15	13°♋31'27	
morning rise	1025 Jul 31 j 05:34	0°♋56'17		direct	1026 Jul 15 j 20:59	13°♋11'34	
direct	1025 Aug 02 j 16:29	0°♋33'47		morning max el	1026 Jul 24 j 07:57	17°♋10'55	18°49'41
morning max el	1025 Aug 10 j 03:01	4°♋11'17	18°11'37	asc. node	1026 Jul 29 j 13:33	23°♋29'29	
asc. node	1025 Aug 11 j 16:29	5°♋49'48			1026 Aug 02 j 15:06	0°♋	
morning set	1025 Aug 26 j 00:43	29°♋25'13		morning set	1026 Aug 09 j 19:57	13°♋30'26	
	1025 Aug 26 j 08:06	0°♋		superior conj	1026 Aug 18 j 09:21	0°♋09'29	1°42'54
superior conj	1025 Sep 04 j 13:53	17°♋09'58	1°29'45	minimum elong	1026 Aug 18 j 11:09	0°♋18'00	1°42'49
minimum elong	1025 Sep 04 j 17:39	17°♋27'00	1°29'25		1026 Aug 18 j 07:21	0°♋	
	1025 Sep 11 j 21:44	0°♋		max. Earth dist.	1026 Aug 25 j 08:41	12°♋59'31	1.39175 AU
max. Earth dist.	1025 Sep 12 j 04:46	0°♋29'47	1.41189 AU	evening rise	1026 Aug 29 j 07:39	19°♋53'26	
evening rise	1025 Sep 17 j 05:58	8°♋52'23			1026 Sep 04 j 10:03	0°♋	
desc. node	1025 Sep 19 j 15:15	12°♋42'55		desc. node	1026 Sep 06 j 12:18	3°♋20'00	
	1025 Sep 30 j 22:20	0°♋			1026 Sep 25 j 02:31	0°♋	
evening max el	1025 Oct 21 j 03:36	26°♋16'25	22°58'19	evening max el	1026 Oct 03 j 16:29	9°♋51'36	24°18'10
	1025 Oct 25 j 10:16	0°♋		retrograde	1026 Oct 14 j 21:32	16°♋25'41	
retrograde	1025 Oct 31 j 06:28	2°♋16'48		evening set	1026 Oct 20 j 06:31	14°♋10'35	
evening set	1025 Nov 05 j 01:31	0°♋18'51		min. Earth dist.	1026 Oct 24 j 23:42	8°♋44'47	0.67535 AU
	1025 Nov 05 j 10:14	30°♋		inferior conj	1026 Oct 25 j 16:41	7°♋47'39	0°03'23
asc. node	1025 Nov 07 j 15:43	27°♋37'19		minimum elong	1026 Oct 25 j 16:36	7°♋47'56	0°03'20

transit middle	1026 Oct 25 j 16:36	7° \mathbb{M} 47'56	0°03'20	evening max el	1027 Sep 16 j 04:23	23° \mathbb{A} 30'12	25°32'23
transit begin	1026 Oct 25 j 13:56	7° \mathbb{M} 56'56			1027 Sep 25 j 12:08	0° \mathbb{M}	
transit end	1026 Oct 25 j 19:17	7° \mathbb{M} 38'56		retrograde	1027 Sep 28 j 08:03	0° \mathbb{M} 28'43	
asc. node	1026 Oct 25 j 12:46	8° \mathbb{M} 00'52			1027 Oct 01 j 00:00	30° \mathbb{R} \mathbb{A}	
morning rise	1026 Oct 31 j 02:42	1° \mathbb{M} 43'05		evening set	1027 Oct 04 j 07:34	27° \mathbb{A} 58'12	
direct	1026 Nov 03 j 22:21	0° \mathbb{M} 19'41		min. Earth dist.	1027 Oct 08 j 16:48	23° \mathbb{A} 07'43	0.66990 AU
morning max el	1026 Nov 11 j 19:28	4° \mathbb{M} 52'10	20°22'47	inferior conj	1027 Oct 09 j 20:37	21° \mathbb{A} 38'22	-0°52'36
	1026 Nov 30 j 09:19	0° \mathbb{A}		minimum elong	1027 Oct 09 j 21:57	21° \mathbb{A} 34'03	0°52'03
desc. node	1026 Dec 03 j 11:32	4° \mathbb{A} 40'08		asc. node	1027 Oct 12 j 09:48	18° \mathbb{A} 30'41	
morning set	1026 Dec 09 j 18:10	14° \mathbb{A} 17'42		morning rise	1027 Oct 15 j 12:33	15° \mathbb{A} 41'52	
max. Earth dist.	1026 Dec 19 j 17:25	0° \mathbb{Z} 00'39	1.43488 AU	direct	1027 Oct 18 j 20:54	14° \mathbb{A} 37'08	
	1026 Dec 19 j 17:15	0° \mathbb{Z}		morning max el	1027 Oct 26 j 00:04	18° \mathbb{A} 38'36	19°20'47
					1027 Nov 03 j 20:56	0° \mathbb{M}	
superior conj	1026 Dec 25 j 19:43	9° \mathbb{Z} 57'05	-1°56'08	morning set	1027 Nov 18 j 18:51	22° \mathbb{M} 43'56	
minimum elong	1026 Dec 25 j 14:51	9° \mathbb{Z} 36'57	1°55'52	desc. node	1027 Nov 20 j 08:35	25° \mathbb{M} 10'33	
	1027 Jan 06 j 14:12	0° \mathbb{A}			1027 Nov 23 j 10:55	0° \mathbb{A}	
evening rise	1027 Jan 07 j 08:22	1° \mathbb{A} 19'17		max. Earth dist.	1027 Dec 02 j 07:54	13° \mathbb{A} 55'15	1.44642 AU
asc. node	1027 Jan 21 j 12:06	24° \mathbb{A} 37'24					
evening max el	1027 Jan 24 j 20:03	28° \mathbb{A} 33'55	18°09'16	superior conj	1027 Dec 05 j 13:22	19° \mathbb{A} 02'30	-1°30'12
	1027 Jan 26 j 10:32	0° \mathbb{H}		minimum elong	1027 Dec 05 j 04:51	18° \mathbb{A} 28'33	1°29'23
retrograde	1027 Jan 31 j 07:54	1° \mathbb{H} 58'37			1027 Dec 12 j 08:55	0° \mathbb{Z}	
evening set	1027 Feb 03 j 03:32	1° \mathbb{H} 18'58		evening rise	1027 Dec 19 j 23:07	12° \mathbb{Z} 28'49	
	1027 Feb 05 j 07:03	30° \mathbb{R} \mathbb{A}			1027 Dec 30 j 14:37	0° \mathbb{A}	
inferior conj	1027 Feb 09 j 10:24	26° \mathbb{A} 08'01	3°46'31	asc. node	1028 Jan 08 j 09:08	11° \mathbb{A} 57'10	
minimum elong	1027 Feb 09 j 10:39	26° \mathbb{A} 07'23	3°46'31	evening max el	1028 Jan 08 j 08:27	11° \mathbb{A} 55'27	18°26'34
min. Earth dist.	1027 Feb 12 j 05:55	23° \mathbb{A} 12'44	0.62470 AU	retrograde	1028 Jan 14 j 21:08	15° \mathbb{A} 29'59	
morning rise	1027 Feb 15 j 16:38	20° \mathbb{A} 09'32		evening set	1028 Jan 17 j 21:54	14° \mathbb{A} 39'24	
direct	1027 Feb 22 j 15:54	17° \mathbb{A} 33'41		inferior conj	1028 Jan 23 j 19:35	9° \mathbb{A} 09'18	3°41'12
desc. node	1027 Mar 01 j 10:44	19° \mathbb{A} 39'52		minimum elong	1028 Jan 23 j 18:10	9° \mathbb{A} 13'24	3°41'03
morning max el	1027 Mar 08 j 15:54	25° \mathbb{A} 27'47	27°48'26	min. Earth dist.	1028 Jan 25 j 23:50	6° \mathbb{A} 38'10	0.64284 AU
	1027 Mar 12 j 20:23	0° \mathbb{H}		morning rise	1028 Jan 29 j 13:55	3° \mathbb{A} 03'12	
	1027 Apr 02 j 02:14	0° \mathbb{Y}		direct	1028 Feb 05 j 10:58	0° \mathbb{A} 12'58	
morning set	1027 Apr 11 j 10:07	17° \mathbb{Y} 42'22		desc. node	1028 Feb 16 j 07:46	5° \mathbb{A} 31'07	
max. Earth dist.	1027 Apr 17 j 00:30	29° \mathbb{Y} 24'48	1.32672 AU	morning max el	1028 Feb 19 j 00:42	8° \mathbb{A} 03'06	27°26'44
	1027 Apr 17 j 07:04	0° \mathbb{B}			1028 Mar 07 j 00:58	0° \mathbb{H}	
					1028 Mar 24 j 08:29	0° \mathbb{Y}	
superior conj	1027 Apr 18 j 22:29	3° \mathbb{B} 32'52	-0°05'42	morning set	1028 Mar 25 j 04:14	1° \mathbb{Y} 36'32	
minimum elong	1027 Apr 18 j 22:45	3° \mathbb{B} 34'20	0°05'38	max. Earth dist.	1028 Mar 30 j 01:36	11° \mathbb{Y} 30'02	1.33481 AU
behind sun begin	1027 Apr 18 j 17:53	3° \mathbb{B} 07'56					
behind sun end	1027 Apr 19 j 03:38	4° \mathbb{B} 00'45		superior conj	1028 Apr 02 j 04:06	18° \mathbb{Y} 01'24	-0°33'00
asc. node	1027 Apr 19 j 11:25	4° \mathbb{B} 42'59		minimum elong	1028 Apr 02 j 05:43	18° \mathbb{Y} 10'01	0°32'39
evening rise	1027 Apr 25 j 21:53	18° \mathbb{B} 37'29		asc. node	1028 Apr 05 j 08:27	24° \mathbb{Y} 49'20	
	1027 May 01 j 12:13	0° \mathbb{I}			1028 Apr 07 j 18:35	0° \mathbb{B}	
evening max el	1027 May 20 j 07:00	27° \mathbb{I} 36'45	24°00'43	evening rise	1028 Apr 09 j 09:13	3° \mathbb{B} 24'18	
	1027 May 23 j 00:06	0° \mathbb{E}			1028 Apr 24 j 02:50	0° \mathbb{I}	
desc. node	1027 May 28 j 10:01	3° \mathbb{E} 19'41		evening max el	1028 Apr 30 j 22:38	8° \mathbb{I} 08'23	22°24'53
retrograde	1027 Jun 03 j 02:11	4° \mathbb{E} 32'48		retrograde	1028 May 13 j 22:33	14° \mathbb{I} 33'42	
evening set	1027 Jun 07 j 10:42	3° \mathbb{E} 50'52		desc. node	1028 May 14 j 07:01	14° \mathbb{I} 33'25	
min. Earth dist.	1027 Jun 13 j 17:57	0° \mathbb{E} 48'27	0.56369 AU	evening set	1028 May 16 j 22:13	14° \mathbb{I} 14'04	
	1027 Jun 15 j 01:35	30° \mathbb{R} \mathbb{I}		min. Earth dist.	1028 May 25 j 05:48	10° \mathbb{I} 38'49	0.55228 AU
inferior conj	1027 Jun 16 j 04:43	29° \mathbb{I} 17'55	-4°26'16	inferior conj	1028 May 26 j 06:24	10° \mathbb{I} 04'01	-3°14'07
minimum elong	1027 Jun 15 j 23:10	29° \mathbb{I} 26'31	4°25'25	minimum elong	1028 May 25 j 22:51	10° \mathbb{I} 14'43	3°11'58
morning rise	1027 Jun 24 j 14:22	25° \mathbb{I} 18'11		morning rise	1028 Jun 04 j 01:27	6° \mathbb{I} 11'21	
direct	1027 Jun 27 j 06:34	24° \mathbb{I} 59'34		direct	1028 Jun 06 j 23:11	5° \mathbb{I} 52'09	
morning max el	1027 Jul 07 j 03:09	29° \mathbb{I} 33'49	19°48'59	morning max el	1028 Jun 18 j 11:02	11° \mathbb{I} 13'19	21°08'45
	1027 Jul 07 j 14:11	0° \mathbb{E}			1028 Jul 01 j 19:24	0° \mathbb{E}	
asc. node	1027 Jul 16 j 10:37	11° \mathbb{E} 55'31		asc. node	1028 Jul 02 j 07:41	0° \mathbb{E} 56'41	
morning set	1027 Jul 24 j 22:41	27° \mathbb{E} 58'18		morning set	1028 Jul 08 j 06:22	12° \mathbb{E} 41'48	
	1027 Jul 25 j 22:45	0° \mathbb{Q}					
				superior conj	1028 Jul 15 j 16:27	28° \mathbb{E} 09'39	1°42'11
superior conj	1027 Aug 01 j 19:39	13° \mathbb{Q} 53'32	1°46'24	minimum elong	1028 Jul 15 j 14:59	28° \mathbb{E} 02'06	1°42'07
minimum elong	1027 Aug 01 j 19:34	13° \mathbb{Q} 53'05	1°46'24		1028 Jul 16 j 13:54	0° \mathbb{Q}	
max. Earth dist.	1027 Aug 07 j 12:53	24° \mathbb{Q} 58'11	1.37191 AU	max. Earth dist.	1028 Jul 19 j 22:57	6° \mathbb{Q} 49'28	1.35442 AU
	1027 Aug 10 j 06:04	0° \mathbb{P}		evening rise	1028 Jul 24 j 04:49	15° \mathbb{Q} 03'10	
evening rise	1027 Aug 11 j 08:42	2° \mathbb{P} 00'38			1028 Aug 01 j 13:20	0° \mathbb{P}	
desc. node	1027 Aug 24 j 09:20	23° \mathbb{P} 45'06		desc. node	1028 Aug 10 j 06:21	13° \mathbb{P} 52'15	
	1027 Aug 28 j 12:54	0° \mathbb{Q}			1028 Aug 22 j 03:48	0° \mathbb{Q}	

evening max el	1028 Aug 28 j 16:23	7° Ω 07'09	26°33'12	evening max el	1029 Aug 11 j 04:14	20° \mathbb{N} 33'46	27°13'11
retrograde	1028 Sep 10 j 13:26	14° Ω 20'07		retrograde	1029 Aug 24 j 13:27	27° \mathbb{N} 52'45	
evening set	1028 Sep 17 j 02:38	11° Ω 38'31		evening set	1029 Aug 31 j 13:20	25° \mathbb{N} 07'57	
min. Earth dist.	1028 Sep 21 j 04:25	7° Ω 24'55	0.66103 AU	min. Earth dist.	1029 Sep 04 j 08:23	21° \mathbb{N} 30'47	0.64852 AU
inferior conj	1028 Sep 22 j 20:00	5° Ω 25'53	-1°49'55	inferior conj	1029 Sep 06 j 12:40	19° \mathbb{N} 06'24	-2°46'24
minimum elong	1028 Sep 22 j 22:52	5° Ω 17'15	1°48'47	minimum elong	1029 Sep 06 j 16:55	18° \mathbb{N} 54'39	2°44'55
asc. node	1028 Sep 28 j 06:52	29° \mathbb{N} 59'30		morning rise	1029 Sep 12 j 21:21	13° \mathbb{N} 35'13	
	1028 Sep 28 j 06:34	30° \mathbb{R} \mathbb{N}		asc. node	1029 Sep 15 j 03:55	12° \mathbb{N} 58'05	
morning rise	1028 Sep 28 j 19:35	29° \mathbb{N} 40'28		direct	1029 Sep 15 j 13:46	12° \mathbb{N} 57'11	
direct	1028 Oct 01 j 18:46	28° \mathbb{N} 50'55		morning max el	1029 Sep 22 j 01:59	16° \mathbb{N} 26'14	18°04'41
	1028 Oct 05 j 09:21	0° Ω			1029 Oct 01 j 20:41	0° Ω	
morning max el	1028 Oct 08 j 11:03	2° Ω 31'34	18°34'22	morning set	1029 Oct 09 j 23:39	13° Ω 28'11	
	1028 Oct 27 j 06:57	0° \mathbb{N}			1029 Oct 20 j 00:23	0° \mathbb{N}	
morning set	1028 Oct 28 j 18:45	2° \mathbb{N} 23'09					
desc. node	1028 Nov 06 j 05:36	15° \mathbb{N} 49'50		superior conj	1029 Oct 23 j 21:58	6° \mathbb{N} 16'18	0°01'19
				minimum elong	1029 Oct 23 j 22:08	6° \mathbb{N} 16'59	0°01'17
superior conj	1028 Nov 13 j 15:01	27° \mathbb{N} 28'29	-0°47'42	behind sun begin	1029 Oct 23 j 11:30	5° \mathbb{N} 34'27	
minimum elong	1028 Nov 13 j 08:54	27° \mathbb{N} 04'30	0°46'55	behind sun end	1029 Oct 24 j 08:46	6° \mathbb{N} 59'28	
max. Earth dist.	1028 Nov 14 j 02:23	28° \mathbb{N} 13'08	1.45093 AU	desc. node	1029 Oct 24 j 02:39	6° \mathbb{N} 35'03	
	1028 Nov 15 j 05:35	0° \mathbb{R}		max. Earth dist.	1029 Oct 27 j 21:10	12° \mathbb{N} 34'19	1.44804 AU
evening rise	1028 Nov 29 j 14:21	22° \mathbb{R} 39'54			1029 Nov 08 j 01:00	0° \mathbb{R}	
	1028 Dec 04 j 05:05	0° \mathbb{Z}		evening rise	1029 Nov 09 j 08:20	2° \mathbb{R} 01'15	
greatest brilliancy	1028 Dec 08 j 09:07	6° \mathbb{Z} 35'52	-0.8m	greatest brilliancy	1029 Nov 22 j 21:37	22° \mathbb{R} 42'50	-0.7m
evening max el	1028 Dec 21 j 18:33	25° \mathbb{Z} 21'41	19°01'39		1029 Nov 27 j 22:20	0° \mathbb{Z}	
asc. node	1028 Dec 25 j 06:10	28° \mathbb{Z} 13'59		evening max el	1029 Dec 05 j 00:26	8° \mathbb{Z} 50'05	19°52'53
retrograde	1028 Dec 28 j 16:01	29° \mathbb{Z} 16'46		asc. node	1029 Dec 12 j 03:11	13° \mathbb{Z} 13'21	
evening set	1028 Dec 31 j 22:50	28° \mathbb{Z} 14'14		retrograde	1029 Dec 12 j 13:29	13° \mathbb{Z} 14'23	
inferior conj	1029 Jan 06 j 14:10	22° \mathbb{Z} 27'17	3°21'10	evening set	1029 Dec 16 j 03:57	11° \mathbb{Z} 58'27	
minimum elong	1029 Jan 06 j 11:47	22° \mathbb{Z} 34'47	3°20'43	inferior conj	1029 Dec 21 j 15:12	5° \mathbb{Z} 57'32	2°50'15
min. Earth dist.	1029 Jan 08 j 03:06	20° \mathbb{Z} 31'13	0.65723 AU	minimum elong	1029 Dec 21 j 12:29	6° \mathbb{Z} 06'32	2°49'31
morning rise	1029 Jan 12 j 00:26	16° \mathbb{Z} 16'36		min. Earth dist.	1029 Dec 22 j 14:15	4° \mathbb{Z} 40'53	0.66766 AU
direct	1029 Jan 18 j 12:32	13° \mathbb{Z} 26'14		morning rise	1029 Dec 26 j 20:49	29° \mathbb{R} 44'30	
morning max el	1029 Jan 31 j 10:33	21° \mathbb{Z} 02'17	26°34'31		1029 Dec 26 j 14:07	30° \mathbb{R} \mathbb{R}	
desc. node	1029 Feb 02 j 04:47	22° \mathbb{Z} 52'23		direct	1030 Jan 01 j 19:58	27° \mathbb{R} 05'17	
	1029 Feb 08 j 05:27	0° \approx			1030 Jan 09 j 00:26	0° \mathbb{Z}	
	1029 Feb 28 j 04:40	0° \mathbb{H}		morning max el	1030 Jan 13 j 19:32	4° \mathbb{Z} 13'27	25°20'21
morning set	1029 Mar 08 j 10:55	14° \mathbb{H} 52'19		desc. node	1030 Jan 20 j 01:50	11° \mathbb{Z} 17'47	
max. Earth dist.	1029 Mar 12 j 15:54	23° \mathbb{H} 01'29	1.34736 AU		1030 Feb 02 j 14:12	0° \approx	
	1029 Mar 16 j 02:57	0° \mathbb{Y}		morning set	1030 Feb 19 j 01:27	27° \approx 16'12	
					1030 Feb 20 j 13:27	0° \mathbb{H}	
superior conj	1029 Mar 17 j 03:37	2° \mathbb{Y} 06'43	-1°00'14	max. Earth dist.	1030 Feb 22 j 18:32	4° \mathbb{H} 06'19	1.36429 AU
minimum elong	1029 Mar 17 j 06:34	2° \mathbb{Y} 21'55	0°59'42				
asc. node	1029 Mar 23 j 05:29	14° \mathbb{Y} 47'38		superior conj	1030 Feb 28 j 18:18	15° \mathbb{H} 41'12	-1°25'43
evening rise	1029 Mar 24 j 18:12	17° \mathbb{Y} 58'29		minimum elong	1030 Feb 28 j 22:12	16° \mathbb{H} 00'36	1°25'11
	1029 Mar 30 j 19:37	0° \mathbb{B}			1030 Mar 07 j 20:21	0° \mathbb{Y}	
evening max el	1029 Apr 12 j 22:14	19° \mathbb{B} 00'01	20°56'51	evening rise	1030 Mar 08 j 22:43	2° \mathbb{Y} 13'35	
retrograde	1029 Apr 24 j 11:56	24° \mathbb{B} 37'16		asc. node	1030 Mar 10 j 02:31	4° \mathbb{Y} 33'26	
evening set	1029 Apr 26 j 16:39	24° \mathbb{B} 25'52			1030 Mar 25 j 21:29	0° \mathbb{B}	
desc. node	1029 May 01 j 04:01	23° \mathbb{B} 00'18		evening max el	1030 Mar 26 j 09:23	0° \mathbb{B} 29'25	19°45'02
inferior conj	1029 May 06 j 00:14	20° \mathbb{B} 27'37	-1°23'44	retrograde	1030 Apr 05 j 05:37	5° \mathbb{B} 13'41	
minimum elong	1029 May 05 j 20:17	20° \mathbb{B} 33'14	1°22'19	evening set	1030 Apr 07 j 07:11	5° \mathbb{B} 02'05	
min. Earth dist.	1029 May 06 j 18:21	20° \mathbb{B} 01'54	0.54968 AU	inferior conj	1030 Apr 16 j 00:53	0° \mathbb{B} 59'58	0°34'24
morning rise	1029 May 14 j 23:42	16° \mathbb{B} 22'58		minimum elong	1030 Apr 16 j 02:22	0° \mathbb{B} 57'39	0°33'52
direct	1029 May 18 j 08:45	15° \mathbb{B} 58'22			1030 Apr 17 j 15:20	30° \mathbb{R} \mathbb{Y}	
morning max el	1029 May 31 j 08:41	22° \mathbb{B} 11'53	22°44'23	desc. node	1030 Apr 18 j 01:02	29° \mathbb{Y} 45'01	
	1029 Jun 07 j 03:31	0° \mathbb{I}		min. Earth dist.	1030 Apr 18 j 08:37	29° \mathbb{Y} 33'26	0.55673 AU
asc. node	1029 Jun 19 j 04:44	20° \mathbb{I} 24'10		morning rise	1030 Apr 24 j 19:04	26° \mathbb{Y} 26'01	
morning set	1029 Jun 22 j 17:01	27° \mathbb{I} 35'07		direct	1030 Apr 29 j 01:23	25° \mathbb{Y} 45'33	
	1029 Jun 23 j 20:33	0° \mathbb{E}			1030 May 09 j 19:35	0° \mathbb{B}	
				morning max el	1030 May 13 j 00:10	2° \mathbb{B} 44'09	24°25'53
					1030 May 31 j 23:01	0° \mathbb{I}	
superior conj	1029 Jun 29 j 20:26	12° \mathbb{E} 47'51	1°31'50	asc. node	1030 Jun 06 j 01:46	10° \mathbb{I} 10'26	
minimum elong	1029 Jun 29 j 18:12	12° \mathbb{E} 35'57	1°31'36	morning set	1030 Jun 07 j 04:51	12° \mathbb{I} 32'10	
max. Earth dist.	1029 Jul 02 j 17:56	18° \mathbb{E} 53'38	1.34051 AU				
evening rise	1029 Jul 07 j 15:21	28° \mathbb{E} 48'36					
	1029 Jul 08 j 05:56	0° \mathbb{Q}		superior conj	1030 Jun 14 j 04:59	27° \mathbb{I} 39'14	1°16'31
	1029 Jul 25 j 16:43	0° \mathbb{N}		minimum elong	1030 Jun 14 j 02:32	27° \mathbb{I} 25'57	1°16'09
desc. node	1029 Jul 28 j 03:21	3° \mathbb{N} 33'39			1030 Jun 15 j 07:00	0° \mathbb{E}	

max. Earth dist.	1030 Jun 15 j 21:37	1°☿18'47	1.33065 AU	evening rise	1031 Jun 05 j 16:25	27°♄42'06	
evening rise	1030 Jun 21 j 12:16	13°☿04'47			1031 Jun 06 j 19:09	0°☿	
	1030 Jun 30 j 09:44	0°♌			1031 Jun 23 j 18:13	0°♌	
desc. node	1030 Jul 15 j 00:23	22°♌37'48		desc. node	1031 Jul 01 j 21:24	10°♌49'07	
	1030 Jul 21 j 01:49	0°♍		evening max el	1031 Jul 06 j 20:48	16°♌06'50	27°05'54
evening max el	1030 Jul 24 j 14:29	3°♍37'45	27°25'40	retrograde	1031 Jul 20 j 18:24	23°♌22'08	
retrograde	1030 Aug 07 j 07:29	10°♍56'26		evening set	1031 Jul 27 j 19:38	21°♌07'33	
evening set	1030 Aug 14 j 12:22	8°♍19'59		min. Earth dist.	1031 Jul 31 j 11:04	18°♌24'20	0.61353 AU
min. Earth dist.	1030 Aug 18 j 02:54	5°♍14'50	0.63248 AU	inferior conj	1031 Aug 03 j 14:37	15°♌38'30	-4°22'24
inferior conj	1030 Aug 20 j 19:56	2°♍33'06	-3°38'55	minimum elong	1031 Aug 03 j 19:12	15°♌28'25	4°21'35
minimum elong	1030 Aug 21 j 00:59	2°♍20'32	3°37'31	morning rise	1031 Aug 10 j 20:24	10°♌45'01	
	1030 Aug 23 j 12:31	30°♌♌		direct	1031 Aug 13 j 07:05	10°♌20'22	
morning rise	1030 Aug 27 j 14:50	27°♌19'16		asc. node	1031 Aug 19 j 22:02	13°♌27'14	
direct	1030 Aug 30 j 03:02	26°♌49'20		morning max el	1031 Aug 20 j 08:02	13°♌50'58	17°58'58
asc. node	1030 Sep 02 j 00:58	27°♌30'30			1031 Aug 31 j 08:04	0°♍	
	1030 Sep 05 j 11:48	0°♍		morning set	1031 Sep 05 j 05:26	8°♍53'21	
morning max el	1030 Sep 05 j 17:59	0°♍15'04	17°52'33				
morning set	1030 Sep 22 j 05:17	25°♍44'12		superior conj	1031 Sep 15 j 12:23	27°♍28'14	1°17'00
	1030 Sep 24 j 15:45	0°♎		minimum elong	1031 Sep 15 j 16:58	27°♍48'16	1°16'31
					1031 Sep 16 j 23:14	0°♎	
superior conj	1030 Oct 04 j 03:34	16°♎12'18	0°44'58	max. Earth dist.	1031 Sep 23 j 01:08	10°♎17'43	1.42268 AU
minimum elong	1030 Oct 04 j 07:46	16°♎29'47	0°44'23	desc. node	1031 Sep 27 j 20:43	18°♎08'08	
max. Earth dist.	1030 Oct 10 j 13:22	26°♎40'48	1.43819 AU	evening rise	1031 Sep 29 j 06:51	20°♎24'06	
desc. node	1030 Oct 10 j 23:40	27°♎22'07			1031 Oct 05 j 10:55	0°♏	
	1030 Oct 12 j 15:13	0°♏			1031 Oct 26 j 16:31	0°♏	
evening rise	1030 Oct 19 j 16:00	11°♏01'05		evening max el	1031 Oct 31 j 19:54	5°♏50'08	22°12'46
	1030 Nov 01 j 05:38	0°♏		retrograde	1031 Nov 10 j 07:12	11°♏28'02	
evening max el	1030 Nov 18 j 00:56	22°♏19'30	20°57'51	evening set	1031 Nov 14 j 18:53	9°♏40'09	
retrograde	1030 Nov 26 j 11:09	27°♏19'06		asc. node	1031 Nov 15 j 21:16	8°♏40'14	
asc. node	1030 Nov 29 j 00:13	26°♏42'45		inferior conj	1031 Nov 20 j 03:16	3°♏21'12	1°25'14
evening set	1030 Nov 30 j 11:13	25°♏48'03		minimum elong	1031 Nov 20 j 01:26	3°♏27'32	1°24'31
inferior conj	1030 Dec 05 j 20:15	19°♏36'23	2°11'00	min. Earth dist.	1031 Nov 20 j 02:48	3°♏22'49	0.67731 AU
minimum elong	1030 Dec 05 j 17:46	19°♏44'57	2°10'09		1031 Nov 22 j 15:29	30°♏♏	
min. Earth dist.	1030 Dec 06 j 06:58	18°♏59'38	0.67426 AU	morning rise	1031 Nov 25 j 07:51	27°♏09'39	
morning rise	1030 Dec 11 j 00:06	13°♏23'03		direct	1031 Nov 30 j 01:10	25°♏11'29	
direct	1030 Dec 16 j 08:29	11°♏02'32			1031 Dec 08 j 18:04	0°♏	
morning max el	1030 Dec 27 j 03:57	17°♏29'26	23°54'25	morning max el	1031 Dec 09 j 14:40	0°♏50'36	22°26'34
desc. node	1031 Jan 06 j 22:53	0°♏28'41		desc. node	1031 Dec 24 j 19:55	20°♏11'54	
	1031 Jan 06 j 14:20	0°♏			1031 Dec 31 j 12:13	0°♏	
	1031 Jan 26 j 15:46	0°♏		morning set	1032 Jan 12 j 06:08	18°♏23'26	
morning set	1031 Jan 31 j 17:50	8°♏31'32		max. Earth dist.	1032 Jan 17 j 10:15	26°♏59'01	1.40603 AU
max. Earth dist.	1031 Feb 04 j 13:49	15°♏13'05	1.38460 AU		1032 Jan 19 j 04:42	0°♏	
superior conj	1031 Feb 11 j 20:33	28°♏35'29	-1°47'02	superior conj	1032 Jan 25 j 05:40	10°♏37'01	-2°00'47
minimum elong	1031 Feb 12 j 00:30	28°♏54'10	1°46'41	minimum elong	1032 Jan 25 j 07:54	10°♏47'04	2°00'42
	1031 Feb 12 j 14:20	0°♐		evening rise	1032 Feb 04 j 07:35	29°♏17'23	
evening rise	1031 Feb 20 j 20:14	16°♐02'42			1032 Feb 04 j 16:39	0°♐	
asc. node	1031 Feb 24 j 23:33	24°♐01'38		asc. node	1032 Feb 11 j 20:36	13°♐05'13	
	1031 Feb 28 j 06:19	0°♑		evening max el	1032 Feb 20 j 13:19	25°♐16'50	18°20'14
evening max el	1031 Mar 09 j 07:24	12°♑37'54	18°52'38	retrograde	1032 Feb 27 j 18:49	28°♐52'02	
retrograde	1031 Mar 17 j 14:41	16°♑39'20		evening set	1032 Mar 01 j 06:42	28°♐27'30	
evening set	1031 Mar 19 j 20:53	16°♑22'41		inferior conj	1032 Mar 08 j 10:59	23°♐48'57	3°11'06
inferior conj	1031 Mar 27 j 19:23	12°♑04'51	2°09'52	minimum elong	1032 Mar 08 j 14:28	23°♐41'38	3°10'26
minimum elong	1031 Mar 27 j 23:28	11°♑57'28	2°08'42	min. Earth dist.	1032 Mar 11 j 21:20	20°♐56'57	0.59177 AU
min. Earth dist.	1031 Mar 31 j 01:01	9°♑46'04	0.57183 AU	morning rise	1032 Mar 15 j 19:46	18°♐14'43	
morning rise	1031 Apr 04 j 22:58	6°♑57'34		desc. node	1032 Mar 21 j 19:07	16°♐28'53	
desc. node	1031 Apr 04 j 22:04	6°♑58'32		direct	1032 Mar 22 j 02:57	16°♐28'36	
direct	1031 Apr 10 j 07:46	5°♑48'09		morning max el	1032 Apr 05 j 10:59	24°♐12'13	27°08'47
morning max el	1031 Apr 24 j 15:17	13°♑15'49	25°58'58		1032 Apr 10 j 17:24	0°♑	
	1031 May 07 j 18:56	0°♒			1032 Apr 29 j 22:07	0°♒	
morning set	1031 May 22 j 16:18	27°♒27'55		morning set	1032 May 06 j 01:38	12°♒15'43	
asc. node	1031 May 23 j 22:50	0°♒09'54		asc. node	1032 May 09 j 19:54	20°♒16'48	
	1031 May 23 j 20:59	0°♒					
				superior conj	1032 May 13 j 03:52	27°♒34'22	0°34'38
superior conj	1031 May 29 j 16:05	12°♒37'08	0°57'12	minimum elong	1032 May 13 j 02:24	27°♒26'16	0°34'20
minimum elong	1031 May 29 j 13:55	12°♒25'14	0°56'48	max. Earth dist.	1032 May 12 j 20:12	26°♒52'13	1.32259 AU
max. Earth dist.	1031 May 30 j 07:37	14°♒02'16	1.32476 AU		1032 May 14 j 06:21	0°♒	

evening rise	1032 May 20 j 01:08	12° Π 31'02		minimum elong	1033 Apr 27 j 14:13	12° B 22'52	0°09'29
	1032 May 28 j 22:47	0° B		behind sun begin	1033 Apr 27 j 10:07	12° B 00'27	
desc. node	1032 Jun 17 j 18:25	27° B 45'24		behind sun end	1033 Apr 27 j 18:19	12° B 45'18	
evening max el	1032 Jun 17 j 20:37	27° B 50'37	26°13'20	evening rise	1033 May 04 j 12:21	27° B 24'18	
	1032 Jun 20 j 06:57	0° Ω			1033 May 05 j 17:57	0° Π	
retrograde	1032 Jul 01 j 20:43	5° Ω 02'25			1033 May 22 j 23:04	0° B	
evening set	1032 Jul 08 j 06:27	3° Ω 21'42		evening max el	1033 May 30 j 13:29	8° B 49'51	24°53'45
min. Earth dist.	1032 Jul 12 j 09:25	0° Ω 44'46	0.59299 AU	desc. node	1033 Jun 04 j 15:26	12° B 56'35	
	1032 Jul 13 j 09:25	30° R B		retrograde	1033 Jun 13 j 12:49	15° B 55'26	
inferior conj	1032 Jul 15 j 17:08	28° B 12'46	-4°48'49	evening set	1033 Jun 18 j 17:52	14° B 53'30	
minimum elong	1032 Jul 15 j 19:08	28° B 08'55	4°48'42	min. Earth dist.	1033 Jun 24 j 00:51	12° B 04'41	0.57330 AU
morning rise	1032 Jul 23 j 09:57	23° B 42'01		inferior conj	1033 Jun 27 j 00:15	10° B 06'32	-4°46'15
direct	1032 Jul 25 j 21:36	23° B 20'38		minimum elong	1033 Jun 26 j 21:33	10° B 11'04	4°46'03
morning max el	1032 Aug 02 j 17:06	27° B 05'47	18°25'16	morning rise	1033 Jul 05 j 03:57	5° B 57'38	
	1032 Aug 05 j 08:31	0° Ω		direct	1033 Jul 07 j 18:08	5° B 38'24	
asc. node	1032 Aug 05 j 19:06	0° Ω 33'19		morning max el	1033 Jul 16 j 18:10	9° B 50'28	19°12'26
morning set	1032 Aug 18 j 18:53	22° Ω 41'09		asc. node	1033 Jul 23 j 16:10	18° B 33'53	
	1032 Aug 22 j 14:27	0° M			1033 Jul 30 j 04:20	0° Ω	
				morning set	1033 Aug 02 j 17:36	6° Ω 56'33	
superior conj	1032 Aug 27 j 20:50	9° M 54'23	1°36'38	superior conj	1033 Aug 10 j 23:12	23° Ω 14'28	1°45'27
minimum elong	1032 Aug 27 j 23:49	10° M 08'06	1°36'26	minimum elong	1033 Aug 11 j 00:08	23° Ω 19'02	1°45'26
max. Earth dist.	1032 Sep 04 j 07:48	23° M 14'03	1.40344 AU		1033 Aug 14 j 12:11	0° M	
	1032 Sep 08 j 07:32	0° B		max. Earth dist.	1033 Aug 17 j 11:12	5° M 28'15	1.38304 AU
evening rise	1032 Sep 08 j 18:18	0° B 44'44		evening rise	1033 Aug 21 j 06:11	12° M 13'58	
desc. node	1032 Sep 13 j 17:46	8° B 49'32		desc. node	1033 Aug 31 j 14:46	29° M 21'51	
	1032 Sep 27 j 21:07	0° M			1033 Sep 01 j 00:33	0° B	
evening max el	1032 Oct 13 j 10:23	19° M 23'13	23°32'33		1033 Sep 23 j 01:54	0° M	
retrograde	1032 Oct 24 j 00:21	25° M 38'16		evening max el	1033 Sep 25 j 22:23	2° M 59'03	24°50'54
evening set	1032 Oct 29 j 01:19	23° M 32'47		retrograde	1033 Oct 07 j 13:34	9° M 45'13	
asc. node	1032 Nov 01 j 18:18	19° M 25'51		evening set	1033 Oct 13 j 04:50	7° M 22'51	
inferior conj	1032 Nov 03 j 10:27	17° M 10'11	0°34'26	min. Earth dist.	1033 Oct 17 j 18:26	2° M 12'07	0.67339 AU
minimum elong	1032 Nov 03 j 09:39	17° M 12'57	0°34'05	inferior conj	1033 Oct 18 j 16:02	1° M 00'38	-0°20'07
min. Earth dist.	1032 Nov 02 j 23:25	17° M 47'56	0.67698 AU	minimum elong	1033 Oct 18 j 16:32	0° M 58'59	0°19'55
morning rise	1032 Nov 08 j 17:55	11° M 02'36			1033 Oct 19 j 10:29	30° R B	
direct	1032 Nov 12 j 21:02	9° M 27'09		asc. node	1033 Oct 19 j 15:21	29° B 44'13	
morning max el	1032 Nov 21 j 07:19	14° M 21'27	21°04'55	morning rise	1033 Oct 24 j 04:23	24° B 59'24	
	1032 Dec 03 j 15:22	0° X		direct	1033 Oct 27 j 18:53	23° B 44'32	
desc. node	1032 Dec 10 j 16:59	10° X 18'35		morning max el	1033 Nov 04 j 07:39	28° B 02'41	19°54'42
morning set	1032 Dec 21 j 14:51	26° X 59'27			1033 Nov 06 j 03:12	0° M	
	1032 Dec 23 j 12:44	0° B			1033 Nov 27 j 03:12	0° X	
max. Earth dist.	1032 Dec 29 j 13:39	9° B 42'01	1.42556 AU	desc. node	1033 Nov 27 j 14:01	0° X 41'30	
				morning set	1033 Nov 30 j 10:59	5° X 07'10	
superior conj	1033 Jan 05 j 16:18	21° B 33'32	-2°02'30	max. Earth dist.	1033 Dec 12 j 00:10	23° X 13'06	1.44053 AU
minimum elong	1033 Jan 05 j 14:29	21° B 25'47	2°02'27		1033 Dec 16 j 05:30	0° B	
	1033 Jan 10 j 13:27	0° \approx					
evening rise	1033 Jan 17 j 05:01	11° \approx 50'03		superior conj	1033 Dec 17 j 00:23	1° B 16'31	-1°47'28
	1033 Jan 27 j 16:27	0° X		minimum elong	1033 Dec 16 j 17:27	0° B 48'24	1°46'58
asc. node	1033 Jan 28 j 17:38	1° X 36'41		evening rise	1033 Dec 30 j 08:07	23° B 31'31	
evening max el	1033 Feb 02 j 24:00	8° X 18'05	18°07'36		1034 Jan 03 j 02:58	0° \approx	
retrograde	1033 Feb 09 j 15:26	11° X 42'54		asc. node	1034 Jan 15 j 14:39	19° \approx 25'55	
evening set	1033 Feb 12 j 08:16	11° X 09'05		evening max el	1034 Jan 17 j 12:29	21° \approx 33'39	18°14'20
inferior conj	1033 Feb 18 j 21:52	6° X 09'27	3°40'50	retrograde	1034 Jan 23 j 23:51	25° \approx 01'30	
minimum elong	1033 Feb 18 j 23:18	6° X 05'56	3°40'42	evening set	1034 Jan 26 j 21:28	24° \approx 17'28	
min. Earth dist.	1033 Feb 22 j 00:42	3° X 08'40	0.61302 AU	inferior conj	1034 Feb 02 j 00:03	18° \approx 58'06	3°46'20
morning rise	1033 Feb 25 j 12:47	0° X 17'21		minimum elong	1034 Feb 01 j 23:31	18° \approx 59'34	3°46'19
	1033 Feb 25 j 23:19	30° R \approx		min. Earth dist.	1034 Feb 04 j 13:14	16° \approx 11'04	0.63279 AU
direct	1033 Mar 04 j 08:57	27° \approx 56'52		morning rise	1034 Feb 08 j 00:41	12° \approx 55'33	
desc. node	1033 Mar 08 j 16:09	28° \approx 47'28		direct	1034 Feb 14 j 23:52	10° \approx 11'42	
	1033 Mar 11 j 05:01	0° X		desc. node	1034 Feb 23 j 13:11	13° \approx 31'16	
morning max el	1033 Mar 18 j 13:12	5° X 49'08	27°44'42	morning max el	1034 Feb 28 j 20:26	18° \approx 06'01	27°43'22
	1033 Apr 05 j 17:10	0° Y			1034 Mar 10 j 20:38	0° X	
morning set	1033 Apr 20 j 07:00	26° Y 49'16			1034 Mar 29 j 12:51	0° Y	
	1033 Apr 21 j 19:49	0° B		morning set	1034 Apr 04 j 06:04	11° Y 01'02	
max. Earth dist.	1033 Apr 26 j 07:29	9° B 35'22	1.32412 AU	max. Earth dist.	1034 Apr 09 j 13:20	21° Y 57'39	1.32961 AU
asc. node	1033 Apr 26 j 16:56	10° B 26'49					
superior conj	1033 Apr 27 j 14:40	12° B 25'18	0°09'35	superior conj	1034 Apr 11 j 22:44	27° Y 04'15	-0°17'12

minimum elong	1034 Apr 11 j 23:34	27° Υ 08'44	0°17'01	minimum elong	1035 Mar 27 j 04:17	11° Υ 35'52	0°44'12
	1034 Apr 13 j 07:20	0° \mathcal{B}		asc. node	1035 Mar 31 j 11:00	20° Υ 39'38	
asc. node	1034 Apr 13 j 13:59	0° \mathcal{B} 35'58		evening rise	1035 Apr 03 j 10:44	26° Υ 57'59	
evening rise	1034 Apr 19 j 00:09	12° \mathcal{B} 15'34			1035 Apr 04 j 21:50	0° \mathcal{B}	
	1034 Apr 28 j 01:32	0° Π			1035 Apr 23 j 21:15	0° Π	
evening max el	1034 May 12 j 03:33	19° Π 23'47	23°19'43	evening max el	1035 Apr 23 j 22:02	0° Π 01'56	21°45'56
desc. node	1034 May 22 j 12:26	25° Π 46'56		retrograde	1035 May 06 j 09:11	6° Π 08'07	
retrograde	1034 May 25 j 16:53	26° Π 10'02		evening set	1035 May 08 j 22:26	5° Π 53'31	
evening set	1034 May 29 j 10:12	25° Π 39'36		desc. node	1035 May 09 j 09:27	5° Π 47'55	
min. Earth dist.	1034 Jun 05 j 13:32	22° Π 24'32	0.55784 AU	inferior conj	1035 May 18 j 08:25	1° Π 50'44	-2°30'33
inferior conj	1034 Jun 07 j 11:35	21° Π 16'36	-4°01'28	minimum elong	1035 May 18 j 01:47	2° Π 00'01	2°28'26
minimum elong	1034 Jun 07 j 04:32	21° Π 27'02	3°59'57	min. Earth dist.	1035 May 18 j 01:55	1° Π 59'50	0.54999 AU
morning rise	1034 Jun 16 j 01:32	17° Π 21'53			1035 May 21 j 18:13	30° \mathcal{R} \mathcal{B}	
direct	1034 Jun 18 j 19:23	17° Π 03'33		morning rise	1035 May 27 j 06:11	27° \mathcal{B} 55'01	
morning max el	1034 Jun 29 j 08:49	21° Π 56'42	20°20'38	direct	1035 May 30 j 07:40	27° \mathcal{B} 34'21	
	1034 Jul 06 j 01:33	0° \mathcal{E}			1035 Jun 07 j 05:23	0° Π	
asc. node	1034 Jul 10 j 13:13	7° \mathcal{E} 16'32		morning max el	1035 Jun 11 j 12:05	3° Π 18'32	21°47'49
morning set	1034 Jul 17 j 22:43	21° \mathcal{E} 32'15		asc. node	1035 Jun 27 j 10:16	26° Π 30'04	
	1034 Jul 22 j 01:30	0° \mathcal{O}			1035 Jun 29 j 05:12	0° \mathcal{E}	
				morning set	1035 Jul 02 j 07:54	6° \mathcal{E} 20'45	
superior conj	1034 Jul 25 j 14:29	7° \mathcal{O} 14'21	1°45'28	superior conj	1035 Jul 09 j 14:43	21° \mathcal{E} 41'11	1°38'28
minimum elong	1034 Jul 25 j 13:45	7° \mathcal{O} 10'34	1°45'26	minimum elong	1035 Jul 09 j 12:52	21° \mathcal{E} 31'26	1°38'19
max. Earth dist.	1034 Jul 30 j 16:53	17° \mathcal{O} 19'20	1.36402 AU	max. Earth dist.	1035 Jul 13 j 06:28	29° \mathcal{E} 13'55	1.34807 AU
evening rise	1034 Aug 03 j 16:00	24° \mathcal{O} 46'58			1035 Jul 13 j 15:34	0° \mathcal{O}	
	1034 Aug 06 j 13:19	0° \mathcal{M}		evening rise	1035 Jul 17 j 18:52	8° \mathcal{O} 09'54	
desc. node	1034 Aug 18 j 11:47	19° \mathcal{M} 40'20			1035 Jul 30 j 03:07	0° \mathcal{M}	
	1034 Aug 25 j 14:07	0° \mathcal{L}		desc. node	1035 Aug 05 j 08:48	9° \mathcal{M} 37'42	
evening max el	1034 Sep 08 j 10:04	16° \mathcal{L} 37'21	26°00'21		1035 Aug 21 j 17:23	0° \mathcal{L}	
retrograde	1034 Sep 20 j 22:09	23° \mathcal{L} 44'08		evening max el	1035 Aug 21 j 22:17	0° \mathcal{L} 11'50	26°53'14
evening set	1034 Sep 27 j 03:36	21° \mathcal{L} 08'07		retrograde	1035 Sep 04 j 01:21	7° \mathcal{L} 28'13	
min. Earth dist.	1034 Oct 01 j 09:33	16° \mathcal{L} 33'06	0.66650 AU	evening set	1035 Sep 10 j 19:25	4° \mathcal{L} 44'25	
inferior conj	1034 Oct 02 j 18:16	14° \mathcal{L} 50'32	-1°16'55	min. Earth dist.	1035 Sep 14 j 18:19	0° \mathcal{L} 46'13	0.65613 AU
minimum elong	1034 Oct 02 j 20:15	14° \mathcal{L} 44'17	1°16'05		1035 Sep 15 j 10:20	30° \mathcal{R} \mathcal{M}	
asc. node	1034 Oct 06 j 12:23	10° \mathcal{L} 33'37		inferior conj	1035 Sep 16 j 15:06	28° \mathcal{M} 35'55	-2°14'10
morning rise	1034 Oct 08 j 13:16	8° \mathcal{L} 58'19		minimum elong	1035 Sep 16 j 18:35	28° \mathcal{M} 25'45	2°12'50
direct	1034 Oct 11 j 17:19	8° \mathcal{L} 00'40		morning rise	1035 Sep 22 j 18:22	22° \mathcal{M} 55'50	
morning max el	1034 Oct 18 j 15:12	11° \mathcal{L} 52'30	18°59'01	asc. node	1035 Sep 23 j 09:27	22° \mathcal{M} 38'29	
	1034 Oct 31 j 20:41	0° \mathcal{M}		direct	1035 Sep 25 j 14:21	22° \mathcal{M} 11'36	
morning set	1034 Nov 09 j 19:38	13° \mathcal{M} 59'07		morning max el	1035 Oct 02 j 04:07	25° \mathcal{M} 46'30	18°19'34
desc. node	1034 Nov 14 j 11:02	21° \mathcal{M} 16'01			1035 Oct 05 j 18:12	0° \mathcal{L}	
	1034 Nov 20 j 00:42	0° \mathcal{X}		morning set	1035 Oct 21 j 08:00	24° \mathcal{L} 15'38	
max. Earth dist.	1034 Nov 24 j 15:59	7° \mathcal{X} 17'04	1.44919 AU		1035 Oct 24 j 20:54	0° \mathcal{M}	
				desc. node	1035 Nov 01 j 08:05	11° \mathcal{M} 58'14	
superior conj	1034 Nov 26 j 09:07	9° \mathcal{X} 59'02	-1°13'46	superior conj	1035 Nov 05 j 10:14	18° \mathcal{M} 26'42	-0°26'56
minimum elong	1034 Nov 26 j 00:47	9° \mathcal{X} 26'12	1°12'50	minimum elong	1035 Nov 05 j 06:43	18° \mathcal{M} 12'50	0°26'27
	1034 Dec 08 j 21:58	0° \mathcal{Z}		max. Earth dist.	1035 Nov 07 j 10:52	21° \mathcal{M} 38'12	1.45059 AU
evening rise	1034 Dec 11 j 12:54	4° \mathcal{Z} 15'26			1035 Nov 12 j 18:49	0° \mathcal{X}	
	1034 Dec 27 j 21:43	0° \approx		evening rise	1035 Nov 21 j 18:18	14° \mathcal{X} 03'03	
evening max el	1035 Jan 01 j 00:10	4° \approx 57'37	18°39'29		1035 Dec 01 j 23:40	0° \mathcal{Z}	
asc. node	1035 Jan 02 j 11:40	6° \approx 20'43		greatest brilliancy	1035 Dec 02 j 20:15	1° \mathcal{Z} 19'08	-0.8m
retrograde	1035 Jan 07 j 15:48	8° \approx 39'46		evening max el	1035 Dec 15 j 08:46	18° \mathcal{Z} 25'43	19°21'44
evening set	1035 Jan 10 j 18:55	7° \approx 44'25		asc. node	1035 Dec 20 j 08:42	22° \mathcal{Z} 06'47	
inferior conj	1035 Jan 16 j 13:37	2° \approx 07'07	3°34'13	retrograde	1035 Dec 22 j 11:58	22° \mathcal{Z} 31'55	
minimum elong	1035 Jan 16 j 11:42	2° \approx 12'52	3°33'58	evening set	1035 Dec 25 j 21:54	21° \mathcal{Z} 23'50	
	1035 Jan 18 j 07:51	30° \mathcal{R} \mathcal{Z}		inferior conj	1035 Dec 31 j 11:15	15° \mathcal{Z} 30'50	3°09'12
min. Earth dist.	1035 Jan 18 j 11:21	29° \mathcal{Z} 49'38	0.64942 AU	minimum elong	1035 Dec 31 j 08:39	15° \mathcal{Z} 39'13	3°08'38
morning rise	1035 Jan 22 j 04:03	25° \mathcal{Z} 58'42		min. Earth dist.	1036 Jan 01 j 18:08	13° \mathcal{Z} 51'14	0.66215 AU
direct	1035 Jan 28 j 22:02	23° \mathcal{Z} 06'24		morning rise	1036 Jan 05 j 19:11	9° \mathcal{Z} 19'10	
desc. node	1035 Feb 10 j 10:13	0° \approx 04'20		direct	1036 Jan 12 j 02:16	6° \mathcal{Z} 32'11	
	1035 Feb 10 j 08:25	0° \approx		morning max el	1036 Jan 24 j 15:14	13° \mathcal{Z} 57'41	26°05'06
morning max el	1035 Feb 11 j 05:52	0° \approx 52'44	27°07'45	desc. node	1036 Jan 28 j 07:15	17° \mathcal{Z} 55'43	
	1035 Mar 04 j 21:43	0° \mathcal{H}			1036 Feb 06 j 16:56	0° \approx	
morning set	1035 Mar 18 j 19:49	24° \mathcal{H} 40'49			1036 Feb 25 j 15:31	0° \mathcal{H}	
	1035 Mar 21 j 12:44	0° Υ		morning set	1036 Feb 29 j 20:18	7° \mathcal{H} 36'43	
max. Earth dist.	1035 Mar 23 j 09:55	3° Υ 47'55	1.33953 AU	max. Earth dist.	1036 Mar 04 j 18:59	15° \mathcal{H} 05'53	1.35406 AU
superior conj	1035 Mar 27 j 02:04	11° Υ 24'18	-0°44'38				

superior conj	1036 Mar 09 j 22:16	25° X 18'21	-1°11'22	superior conj	1037 Feb 21 j 08:08	8° X 36'44	-1°35'27
minimum elong	1036 Mar 10 j 01:42	25° X 35'45	1°10'48	minimum elong	1037 Feb 21 j 12:12	8° X 56'37	1°34'57
	1036 Mar 12 j 05:20	0° Y		evening rise	1037 Mar 01 j 19:59	25° X 30'25	
asc. node	1036 Mar 17 j 08:02	10° Y 33'45		asc. node	1037 Mar 04 j 05:05	0° Y 12'50	
evening rise	1036 Mar 17 j 18:07	11° Y 25'28			1037 Mar 04 j 02:27	0° Y	
	1036 Mar 27 j 14:35	0° Z		evening max el	1037 Mar 18 j 18:29	22° Y 55'24	19°20'15
evening max el	1036 Apr 05 j 02:34	11° Z 09'32	20°24'04	retrograde	1037 Mar 27 j 21:52	27° Y 19'58	
retrograde	1036 Apr 15 j 22:22	16° Z 23'13		evening set	1037 Mar 30 j 01:01	27° Y 06'37	
evening set	1036 Apr 18 j 00:29	16° Z 12'22		inferior conj	1037 Apr 07 j 10:40	22° Y 58'20	1°18'47
desc. node	1036 Apr 25 j 06:27	13° Z 19'04		minimum elong	1037 Apr 07 j 13:43	22° Y 53'16	1°17'47
inferior conj	1036 Apr 27 j 03:24	12° Z 14'29	-0°32'32	min. Earth dist.	1037 Apr 10 j 05:41	21° Y 08'16	0.56235 AU
minimum elong	1036 Apr 27 j 01:52	12° Z 16'43	0°31'58	desc. node	1037 Apr 12 j 03:28	19° Y 58'38	
min. Earth dist.	1036 Apr 28 j 14:58	11° Z 22'38	0.55164 AU	morning rise	1037 Apr 15 j 23:36	18° Y 10'11	
morning rise	1036 May 06 j 01:58	7° Z 59'09		direct	1037 Apr 20 j 16:55	17° Y 19'10	
direct	1036 May 09 j 19:19	7° Z 29'09		morning max el	1037 May 04 j 20:53	24° Y 31'20	25°07'30
morning max el	1036 May 23 j 06:16	14° Z 02'53	23°27'27		1037 May 09 j 21:33	0° Z	
	1036 Jun 04 j 13:37	0° II			1037 May 28 j 06:43	0° II	
asc. node	1036 Jun 13 j 07:19	16° II 06'30		morning set	1037 May 31 j 07:12	6° II 14'13	
morning set	1036 Jun 15 j 19:18	21° II 16'32		asc. node	1037 May 31 j 04:23	5° II 59'20	
	1036 Jun 19 j 21:19	0° III					
superior conj	1036 Jun 22 j 20:56	6° III 25'51	1°25'52	superior conj	1037 Jun 07 j 06:49	21° II 21'02	1°08'45
minimum elong	1036 Jun 22 j 18:33	6° III 13'01	1°25'34	minimum elong	1037 Jun 07 j 04:26	21° II 08'02	1°08'22
max. Earth dist.	1036 Jun 25 j 05:39	11° III 28'10	1.33594 AU	max. Earth dist.	1037 Jun 08 j 12:36	24° II 03'12	1.32771 AU
evening rise	1036 Jun 30 j 10:18	22° III 10'01			1037 Jun 11 j 06:54	0° III	
	1036 Jul 04 j 11:08	0° IV		evening rise	1037 Jun 14 j 10:39	6° III 36'26	
desc. node	1036 Jul 22 j 05:49	29° IV 04'46			1037 Jun 26 j 23:54	0° IV	
	1036 Jul 22 j 21:52	0° V		desc. node	1037 Jul 09 j 02:50	17° IV 49'02	
evening max el	1036 Aug 03 j 09:56	13° V 31'06	27°22'09	evening max el	1037 Jul 16 j 18:48	26° IV 21'58	27°21'14
retrograde	1036 Aug 16 j 22:38	20° V 49'28			1037 Jul 21 j 02:51	0° V	
evening set	1036 Aug 24 j 01:33	18° V 06'58		retrograde	1037 Jul 30 j 13:40	3° V 39'05	
min. Earth dist.	1036 Aug 27 j 18:27	14° V 44'07	0.64217 AU	evening set	1037 Aug 06 j 18:30	1° V 10'00	
inferior conj	1036 Aug 30 j 04:08	12° V 11'29	-3°09'25		1037 Aug 08 j 08:10	30° R 00	
minimum elong	1036 Aug 30 j 08:49	11° V 59'03	3°07'54	min. Earth dist.	1037 Aug 10 j 08:24	28° IV 16'08	0.62476 AU
morning rise	1036 Sep 05 j 17:02	6° V 47'05		inferior conj	1037 Aug 13 j 06:30	25° IV 30'41	-3°58'50
direct	1036 Sep 08 j 07:27	6° V 12'44		minimum elong	1037 Aug 13 j 11:33	25° IV 18'43	3°57'39
asc. node	1036 Sep 09 j 06:30	6° V 17'29		morning rise	1037 Aug 20 j 06:01	20° IV 25'23	
morning max el	1036 Sep 14 j 19:48	9° V 39'08	17°57'17	direct	1037 Aug 22 j 17:20	19° IV 57'56	
	1036 Sep 28 j 13:16	0° VI		asc. node	1037 Aug 27 j 03:35	21° IV 28'11	
morning set	1036 Oct 02 j 00:12	5° VI 53'24		morning max el	1037 Aug 29 j 11:26	23° IV 24'17	17°53'00
					1037 Sep 03 j 16:53	0° VI	
superior conj	1036 Oct 15 j 01:20	27° VI 39'12	0°21'03	morning set	1037 Sep 14 j 14:30	18° VI 34'47	
minimum elong	1036 Oct 15 j 03:42	27° VI 48'46	0°20'42		1037 Sep 21 j 00:57	0° VI	
	1036 Oct 16 j 12:09	0° VII		superior conj	1037 Sep 25 j 18:45	8° VI 10'39	1°00'06
desc. node	1036 Oct 18 j 05:07	2° VII 44'33		minimum elong	1037 Sep 25 j 23:29	8° VI 30'44	0°59'31
max. Earth dist.	1036 Oct 20 j 05:25	5° VII 57'09	1.44467 AU	max. Earth dist.	1037 Oct 02 j 20:20	19° VI 54'46	1.43218 AU
evening rise	1036 Oct 31 j 06:01	23° VII 10'40		desc. node	1037 Oct 05 j 02:11	23° VI 32'05	
	1036 Nov 04 j 16:51	0° VIII			1037 Oct 09 j 04:01	0° VII	
	1036 Nov 25 j 18:31	0° IX		evening rise	1037 Oct 10 j 14:42	2° VII 15'34	
evening max el	1036 Nov 27 j 12:29	1° IX 54'36	20°19'06		1037 Oct 29 j 05:47	0° VIII	
retrograde	1036 Dec 05 j 09:44	6° IX 33'00		evening max el	1037 Nov 10 j 10:29	15° VIII 24'18	21°28'40
asc. node	1036 Dec 06 j 05:45	6° IX 29'04		retrograde	1037 Nov 19 j 07:01	20° VIII 40'21	
evening set	1036 Dec 09 j 04:09	5° IX 10'37		evening set	1037 Nov 23 j 11:49	19° VIII 02'07	
	1036 Dec 13 j 21:48	30° R 00		asc. node	1037 Nov 23 j 02:48	19° VIII 19'06	
inferior conj	1036 Dec 14 j 14:14	29° VIII 04'41	2°34'29	inferior conj	1037 Nov 28 j 20:22	12° VIII 46'38	1°52'18
minimum elong	1036 Dec 14 j 11:34	29° VIII 13'44	2°33'41	minimum elong	1037 Nov 28 j 18:07	12° VIII 54'27	1°51'28
min. Earth dist.	1036 Dec 15 j 07:47	28° VIII 05'25	0.67092 AU	min. Earth dist.	1037 Nov 29 j 02:07	12° VIII 26'45	0.67598 AU
morning rise	1036 Dec 19 j 18:48	22° VIII 51'34		morning rise	1037 Dec 04 j 00:15	6° VIII 33'48	
direct	1036 Dec 25 j 11:47	20° VIII 19'50		direct	1037 Dec 09 j 02:03	4° VIII 22'51	
morning max el	1037 Jan 05 j 23:46	27° VIII 11'06	24°44'44	morning max el	1037 Dec 19 j 08:56	10° VIII 29'51	23°16'45
	1037 Jan 08 j 15:08	0° X		desc. node	1038 Jan 01 j 01:22	26° VIII 08'09	
desc. node	1037 Jan 14 j 04:17	6° X 42'07			1038 Jan 03 j 19:21	0° X	
	1037 Jan 30 j 08:49	0° XI		morning set	1038 Jan 23 j 07:06	0° XI 13'49	
morning set	1037 Feb 11 j 02:09	19° XI 32'58			1038 Jan 23 j 03:49	0° XI	
max. Earth dist.	1037 Feb 14 j 17:59	26° XI 08'24	1.37265 AU	max. Earth dist.	1038 Jan 27 j 12:57	7° XI 28'37	1.39375 AU
	1037 Feb 16 j 19:58	0° XII					
				superior conj	1038 Feb 04 j 03:38	21° XI 09'27	-1°54'03

minimum elong	1038 Feb 04 j 07:07	21° \approx 25'36	1°53'48	superior conj	1039 Jan 17 j 03:49	2° \approx 44'51	-2°03'17
	1038 Feb 08 j 20:12	0° H		minimum elong	1039 Jan 17 j 04:37	2° \approx 48'22	2°03'16
evening rise	1038 Feb 13 j 13:34	9° H 05'39		evening rise	1039 Jan 27 j 19:30	22° \approx 03'34	
asc. node	1038 Feb 19 j 02:07	19° H 31'20			1039 Feb 01 j 03:22	0° H	
	1038 Feb 25 j 10:47	0° Y		asc. node	1039 Feb 05 j 23:08	8° H 22'38	
evening max el	1038 Mar 01 j 20:06	5° Y 17'07	18°36'23	evening max el	1039 Feb 13 j 04:28	18° H 07'08	18°12'33
retrograde	1038 Mar 09 j 15:13	9° Y 05'47		retrograde	1039 Feb 20 j 02:43	21° H 36'01	
evening set	1038 Mar 11 j 23:42	8° Y 46'09		evening set	1039 Feb 22 j 16:43	21° H 07'46	
inferior conj	1038 Mar 19 j 14:06	4° Y 19'47	2°40'06	inferior conj	1039 Mar 01 j 14:20	16° H 20'34	3°27'08
minimum elong	1038 Mar 19 j 18:14	4° Y 11'48	2°39'04	minimum elong	1039 Mar 01 j 17:00	16° H 14'33	3°26'45
min. Earth dist.	1038 Mar 22 j 23:35	1° Y 43'51	0.57985 AU	min. Earth dist.	1039 Mar 04 j 22:48	13° H 21'25	0.60078 AU
	1038 Mar 25 j 13:13	30° R H		morning rise	1039 Mar 08 j 15:09	10° H 37'36	
morning rise	1038 Mar 27 j 09:47	28° H 59'28		direct	1039 Mar 15 j 05:16	8° H 35'33	
desc. node	1038 Mar 30 j 00:31	28° H 00'37		desc. node	1039 Mar 16 j 21:34	8° H 43'12	
direct	1038 Apr 02 j 04:46	27° H 34'58		morning max el	1039 Mar 29 j 12:08	16° H 24'28	27°28'36
	1038 Apr 10 j 00:20	0° Y			1039 Apr 09 j 16:05	0° Y	
morning max el	1038 Apr 16 j 13:43	5° Y 11'24	26°32'25		1039 Apr 27 j 04:55	0° B	
	1038 May 04 j 17:48	0° B		morning set	1039 Apr 30 j 01:51	5° B 50'36	
morning set	1038 May 15 j 17:57	21° B 07'35		asc. node	1039 May 04 j 22:27	16° B 11'50	
asc. node	1038 May 18 j 01:25	26° B 02'38		max. Earth dist.	1039 May 06 j 12:23	19° B 38'57	1.32269 AU
	1038 May 19 j 21:11	0° II					
superior conj	1038 May 22 j 18:24	6° II 19'35	0°47'59	superior conj	1039 May 07 j 05:59	21° B 15'33	0°24'17
minimum elong	1038 May 22 j 16:29	6° II 09'01	0°47'37	minimum elong	1039 May 07 j 04:55	21° B 09'40	0°24'04
max. Earth dist.	1038 May 23 j 00:04	6° II 50'41	1.32330 AU		1039 May 11 j 05:45	0° II	
evening rise	1038 May 29 j 16:59	21° II 19'33		evening rise	1039 May 14 j 03:00	6° II 11'38	
	1038 Jun 02 j 23:31	0° E			1039 May 26 j 15:54	0° E	
	1038 Jun 21 j 08:26	0° O		evening max el	1039 Jun 10 j 19:06	19° E 56'45	25°42'19
desc. node	1038 Jun 25 j 23:51	5° O 32'02		desc. node	1039 Jun 12 j 20:50	21° E 48'23	
evening max el	1038 Jun 28 j 22:21	8° O 32'05	26°47'21	retrograde	1039 Jun 24 j 20:00	27° E 07'02	
retrograde	1038 Jul 12 j 21:27	15° O 46'52		evening set	1039 Jun 30 j 18:43	25° E 43'05	
evening set	1038 Jul 19 j 17:42	13° O 45'08		min. Earth dist.	1039 Jul 05 j 07:28	23° E 02'53	0.58431 AU
min. Earth dist.	1038 Jul 23 j 12:09	11° O 06'58	0.60484 AU	inferior conj	1039 Jul 08 j 13:22	20° E 42'54	-4°52'10
inferior conj	1038 Jul 26 j 18:46	8° O 24'11	-4°36'20	minimum elong	1039 Jul 08 j 13:34	20° E 42'33	4°52'09
minimum elong	1038 Jul 26 j 22:33	8° O 16'18	4°35'51	morning rise	1039 Jul 16 j 10:50	16° E 21'38	
morning rise	1038 Aug 03 j 05:18	3° O 40'34		direct	1039 Jul 18 j 23:13	16° E 01'23	
direct	1038 Aug 05 j 16:00	3° O 17'38		morning max el	1039 Jul 27 j 05:53	19° E 56'47	18°42'37
morning max el	1038 Aug 12 j 23:51	6° O 53'06	18°07'40	asc. node	1039 Jul 31 j 21:42	25° E 27'58	
asc. node	1038 Aug 14 j 00:38	7° O 56'40			1039 Aug 03 j 20:57	0° O	
	1038 Aug 27 j 18:47	0° P		morning set	1039 Aug 12 j 14:40	16° O 02'45	
morning set	1038 Aug 28 j 20:52	2° P 01'54			1039 Aug 19 j 19:16	0° P	
superior conj	1038 Sep 07 j 14:20	19° P 58'49	1°26'46	superior conj	1039 Aug 21 j 07:04	2° P 49'51	1°41'34
minimum elong	1038 Sep 07 j 18:21	20° P 16'51	1°26'24	minimum elong	1039 Aug 21 j 09:10	2° P 59'46	1°41'28
	1038 Sep 13 j 07:42	0° A		max. Earth dist.	1039 Aug 28 j 09:50	15° P 49'48	1.39482 AU
max. Earth dist.	1038 Sep 15 j 05:25	3° A 13'50	1.41478 AU	evening rise	1039 Sep 01 j 11:07	22° P 50'27	
evening rise	1038 Sep 20 j 13:11	12° A 00'08			1039 Sep 05 j 18:37	0° A	
desc. node	1038 Sep 21 j 23:13	14° A 16'44		desc. node	1039 Sep 08 j 20:13	4° A 54'52	
	1038 Oct 02 j 04:09	0° M			1039 Sep 26 j 02:07	0° M	
evening max el	1038 Oct 24 j 03:12	28° M 55'25	22°46'25	evening max el	1039 Oct 06 j 16:27	12° M 30'03	24°06'32
	1038 Oct 25 j 05:39	0° X		retrograde	1039 Oct 17 j 17:40	18° M 59'18	
retrograde	1038 Nov 03 j 02:07	4° X 50'14		evening set	1039 Oct 23 j 00:32	16° M 46'45	
evening set	1038 Nov 07 j 19:10	2° X 55'00		asc. node	1039 Oct 27 j 20:54	11° M 09'33	
asc. node	1038 Nov 09 j 23:50	0° X 42'19		inferior conj	1039 Oct 28 j 10:25	10° M 23'51	0°11'39
	1038 Nov 10 j 13:53	30° R M		minimum elong	1039 Oct 28 j 10:08	10° M 24'49	0°11'32
inferior conj	1038 Nov 13 j 03:41	26° M 33'46	1°04'14	transit middle	1039 Oct 28 j 10:08	10° M 24'49	0°11'32
minimum elong	1038 Nov 13 j 02:15	26° M 38'45	1°03'38	transit begin	1039 Oct 28 j 08:12	10° M 31'19	
min. Earth dist.	1038 Nov 12 j 22:41	26° M 51'03	0.67755 AU	transit end	1039 Oct 28 j 12:03	10° M 18'18	
morning rise	1038 Nov 18 j 09:13	20° M 23'24		min. Earth dist.	1039 Oct 27 j 19:00	11° M 15'57	0.67587 AU
direct	1038 Nov 22 j 20:16	18° M 35'03		morning rise	1039 Nov 02 j 19:42	4° M 18'24	
morning max el	1038 Dec 01 j 21:49	23° M 54'58	21°50'36	direct	1039 Nov 06 j 17:15	2° M 51'52	
	1038 Dec 07 j 05:45	0° X		morning max el	1039 Nov 14 j 17:30	7° M 29'36	20°33'16
desc. node	1038 Dec 18 j 22:27	16° X 02'29			1039 Dec 01 j 14:53	0° X	
	1038 Dec 28 j 05:34	0° Z		desc. node	1039 Dec 05 j 19:29	6° X 16'49	
morning set	1039 Jan 03 j 06:57	9° Z 30'53		morning set	1039 Dec 13 j 07:22	17° X 45'43	
max. Earth dist.	1039 Jan 09 j 11:21	19° Z 36'04	1.41469 AU		1039 Dec 21 j 01:45	0° Z	
	1039 Jan 15 j 14:05	0° \approx		max. Earth dist.	1039 Dec 22 j 17:36	2° Z 40'06	1.43262 AU

desc. node	1041 Nov 08 j 13:31	17° \mathbb{M} 23'49			1042 Oct 03 j 01:50	0° $\underline{\mathbf{a}}$
	1041 Nov 16 j 13:45	0° \mathbb{A}		morning set	1042 Oct 13 j 02:27	16° $\underline{\mathbf{a}}$ 24'26
					1042 Oct 21 j 09:05	0° \mathbb{M}
superior conj	1041 Nov 17 j 03:23	0° \mathbb{A} 53'33 -0°54'51		desc. node	1042 Oct 26 j 10:34	8° \mathbb{M} 08'21
minimum elong	1041 Nov 16 j 20:31	0° \mathbb{A} 26'33 0°54'00				
max. Earth dist.	1041 Nov 17 j 01:13	0° \mathbb{A} 45'03 1.45072 AU		superior conj	1042 Oct 27 j 08:13	9° \mathbb{M} 34'37 -0°06'02
evening rise	1041 Dec 02 j 22:24	25° \mathbb{A} 52'40		minimum elong	1042 Oct 27 j 07:27	9° \mathbb{M} 31'36 0°05'56
	1041 Dec 05 j 12:15	0° \mathbb{B}		behind sun begin	1042 Oct 26 j 21:18	8° \mathbb{M} 51'10
greatest brilliancy	1041 Dec 10 j 18:06	8° \mathbb{B} 22'22 -0.8m		behind sun end	1042 Oct 27 j 17:37	10° \mathbb{M} 11'59
evening max el	1041 Dec 24 j 15:22	28° \mathbb{B} 01'28 18°55'23		max. Earth dist.	1042 Oct 30 j 19:56	15° \mathbb{M} 06'04 1.44894 AU
	1041 Dec 26 j 19:51	0° \approx			1042 Nov 09 j 08:35	0° \mathbb{A}
asc. node	1041 Dec 27 j 14:16	0° \approx 32'57		evening rise	1042 Nov 12 j 19:03	5° \mathbb{A} 20'02
retrograde	1041 Dec 31 j 11:09	1° \approx 53'05		greatest brilliancy	1042 Nov 25 j 19:05	25° \mathbb{A} 16'43 -0.7m
evening set	1042 Jan 03 j 16:57	0° \approx 52'29			1042 Nov 28 j 23:51	0° \mathbb{B}
	1042 Jan 04 j 21:56	30° \mathbb{R} \mathbb{B}		evening max el	1042 Dec 07 j 22:01	11° \mathbb{B} 29'54 19°44'23
inferior conj	1042 Jan 09 j 09:04	25° \mathbb{B} 07'54 3°24'58		asc. node	1042 Dec 14 j 11:19	15° \mathbb{B} 45'01
minimum elong	1042 Jan 09 j 06:47	25° \mathbb{B} 15'00 3°24'34		retrograde	1042 Dec 15 j 08:22	15° \mathbb{B} 49'19
min. Earth dist.	1042 Jan 11 j 00:15	23° \mathbb{B} 06'03 0.65531 AU		evening set	1042 Dec 18 j 21:34	14° \mathbb{B} 35'33
morning rise	1042 Jan 14 j 20:18	18° \mathbb{B} 57'38		inferior conj	1042 Dec 24 j 09:19	8° \mathbb{B} 36'39 2°55'32
direct	1042 Jan 21 j 10:00	16° \mathbb{B} 06'21		minimum elong	1042 Dec 24 j 06:37	8° \mathbb{B} 45'33 2°54'49
morning max el	1042 Feb 03 j 10:54	23° \mathbb{B} 45'48 26°43'54		min. Earth dist.	1042 Dec 25 j 10:23	7° \mathbb{B} 13'53 0.66636 AU
desc. node	1042 Feb 04 j 12:42	24° \mathbb{B} 52'06		morning rise	1042 Dec 29 j 15:26	2° \mathbb{B} 23'51
	1042 Feb 09 j 01:15	0° \approx			1043 Jan 02 j 15:19	30° \mathbb{R} \mathbb{A}
	1042 Mar 01 j 13:09	0° \mathbb{H}		direct	1043 Jan 04 j 16:44	29° \mathbb{A} 42'14
morning set	1042 Mar 11 j 08:58	17° \mathbb{H} 37'17			1043 Jan 06 j 20:32	0° \mathbb{B}
max. Earth dist.	1042 Mar 15 j 16:18	26° \mathbb{H} 01'14 1.34515 AU		morning max el	1043 Jan 16 j 19:59	6° \mathbb{B} 55'34 25°32'21
	1042 Mar 17 j 15:39	0° \mathbb{Y}		desc. node	1043 Jan 22 j 09:45	13° \mathbb{B} 09'16
					1043 Feb 03 j 19:08	0° \approx
superior conj	1042 Mar 19 j 22:44	4° \mathbb{Y} 42'59 -0°56'11		morning set	1043 Feb 22 j 02:17	0° \mathbb{H} 10'02
minimum elong	1042 Mar 20 j 01:30	4° \mathbb{Y} 57'17 0°55'40			1043 Feb 22 j 00:04	0° \mathbb{H}
asc. node	1042 Mar 25 j 13:34	16° \mathbb{Y} 29'09		max. Earth dist.	1043 Feb 25 j 20:21	7° \mathbb{H} 08'01 1.36147 AU
evening rise	1042 Mar 27 j 11:40	20° \mathbb{Y} 29'51				
	1042 Apr 01 j 04:54	0° \mathbb{B}		superior conj	1043 Mar 03 j 14:58	18° \mathbb{H} 22'52 -1°22'05
evening max el	1042 Apr 15 j 23:18	22° \mathbb{B} 01'25 21°09'09		minimum elong	1043 Mar 03 j 18:47	18° \mathbb{H} 41'53 1°21'30
retrograde	1042 Apr 27 j 19:02	27° \mathbb{B} 46'42			1043 Mar 09 j 08:27	0° \mathbb{Y}
evening set	1042 Apr 30 j 01:19	27° \mathbb{B} 34'47		evening rise	1043 Mar 11 j 17:01	4° \mathbb{Y} 48'19
desc. node	1042 May 03 j 11:53	26° \mathbb{B} 35'15		asc. node	1043 Mar 12 j 10:37	6° \mathbb{Y} 17'24
inferior conj	1042 May 09 j 10:00	23° \mathbb{B} 35'50 -1°41'53			1043 Mar 26 j 06:31	0° \mathbb{B}
minimum elong	1042 May 09 j 05:14	23° \mathbb{B} 42'33 1°40'13		evening max el	1043 Mar 29 j 08:48	3° \mathbb{B} 25'18 19°54'37
min. Earth dist.	1042 May 09 j 21:47	23° \mathbb{B} 19'13 0.54942 AU		retrograde	1043 Apr 08 j 11:04	8° \mathbb{B} 16'51
morning rise	1042 May 18 j 09:17	19° \mathbb{B} 34'03		evening set	1043 Apr 10 j 12:27	8° \mathbb{B} 05'38
direct	1042 May 21 j 15:58	19° \mathbb{B} 10'48		inferior conj	1043 Apr 19 j 08:48	4° \mathbb{B} 05'13 0°17'20
morning max el	1042 Jun 03 j 11:22	25° \mathbb{B} 17'00 22°29'25		minimum elong	1043 Apr 19 j 09:34	4° \mathbb{B} 04'02 0°17'04
	1042 Jun 07 j 20:28	0° \mathbb{I}		desc. node	1043 Apr 20 j 08:56	3° \mathbb{B} 28'15
asc. node	1042 Jun 21 j 12:49	22° \mathbb{I} 08'31		min. Earth dist.	1043 Apr 21 j 11:48	2° \mathbb{B} 47'28 0.55510 AU
morning set	1042 Jun 25 j 09:54	0° \mathbb{B} 02'21			1043 Apr 27 j 00:08	30° \mathbb{R} \mathbb{Y}
	1042 Jun 25 j 09:27	0° \mathbb{B}		morning rise	1043 Apr 28 j 04:26	29° \mathbb{Y} 36'18
				direct	1043 May 02 j 07:12	28° \mathbb{Y} 58'55
superior conj	1042 Jul 02 j 14:05	15° \mathbb{B} 16'48 1°33'45			1043 May 07 j 12:06	0° \mathbb{B}
minimum elong	1042 Jul 02 j 11:56	15° \mathbb{B} 05'24 1°33'32		morning max el	1043 May 16 j 03:21	5° \mathbb{B} 51'44 24°10'51
max. Earth dist.	1042 Jul 05 j 16:09	21° \mathbb{B} 44'44 1.34233 AU			1043 Jun 02 j 08:04	0° \mathbb{I}
	1042 Jul 09 j 18:04	0° \mathbb{Q}		asc. node	1043 Jun 08 j 09:52	11° \mathbb{I} 52'26
evening rise	1042 Jul 10 j 11:11	1° \mathbb{Q} 24'07		morning set	1043 Jun 09 j 21:41	14° \mathbb{I} 59'18
	1042 Jul 26 j 21:18	0° \mathbb{M}				
desc. node	1042 Jul 30 j 11:14	5° \mathbb{M} 18'53		superior conj	1043 Jun 16 j 22:07	0° \mathbb{B} 06'49 1°19'07
evening max el	1042 Aug 14 j 04:09	23° \mathbb{M} 15'02 27°08'48		minimum elong	1043 Jun 16 j 19:40	29° \mathbb{I} 53'34 1°18'46
	1042 Aug 24 j 03:31	0° $\underline{\mathbf{a}}$			1043 Jun 16 j 20:52	0° \mathbb{B}
retrograde	1042 Aug 27 j 12:03	0° $\underline{\mathbf{a}}$ 33'49		max. Earth dist.	1043 Jun 18 j 18:45	4° \mathbb{B} 07'11 1.33191 AU
	1042 Aug 30 j 16:26	30° \mathbb{R} \mathbb{M}		evening rise	1043 Jun 24 j 06:49	15° \mathbb{B} 36'41
evening set	1042 Sep 03 j 10:31	27° \mathbb{M} 48'56			1043 Jul 01 j 19:07	0° \mathbb{Q}
min. Earth dist.	1042 Sep 07 j 06:30	24° \mathbb{M} 06'23 0.65061 AU		desc. node	1043 Jul 17 j 08:16	24° \mathbb{Q} 29'31
inferior conj	1042 Sep 09 j 08:50	21° \mathbb{M} 45'20 -2°38'01			1043 Jul 21 j 16:28	0° \mathbb{M}
minimum elong	1042 Sep 09 j 12:54	21° \mathbb{M} 33'57 2°36'34		evening max el	1043 Jul 27 j 14:55	6° \mathbb{M} 23'39 27°25'45
morning rise	1042 Sep 15 j 16:05	16° \mathbb{M} 11'46		retrograde	1043 Aug 10 j 06:59	13° \mathbb{M} 42'17
asc. node	1042 Sep 17 j 12:02	15° \mathbb{M} 36'32		evening set	1043 Aug 17 j 11:32	11° \mathbb{M} 03'58
direct	1042 Sep 18 j 09:19	15° \mathbb{M} 32'17		min. Earth dist.	1043 Aug 21 j 02:37	7° \mathbb{M} 54'19 0.63510 AU
morning max el	1042 Sep 24 j 21:47	19° \mathbb{M} 02'43 18°07'58		inferior conj	1043 Aug 23 j 17:43	5° \mathbb{M} 14'42 -3°31'24


































































































































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morning rise	1043 Aug 30 j 11:02	29° Ω 57'53		direct	1044 Aug 15 j 05:28	13° Ω 01'46	
	1043 Aug 30 j 08:58	30° \mathbb{R} Ω		asc. node	1044 Aug 21 j 06:09	15° Ω 40'01	
direct	1043 Sep 01 j 23:42	29° Ω 26'56		morning max el	1044 Aug 22 j 04:18	16° Ω 30'55	17°56'47
asc. node	1043 Sep 04 j 09:05	29° Ω 55'07			1044 Aug 31 j 15:53	0° \mathbb{M}	
	1043 Sep 04 j 13:53	0° \mathbb{M}		morning set	1044 Sep 07 j 02:36	11° \mathbb{M} 33'40	
morning max el	1043 Sep 08 j 13:47	2° \mathbb{M} 52'41	17°53'10		1044 Sep 17 j 09:23	0° $\underline{\Omega}$	
morning set	1043 Sep 25 j 04:50	28° \mathbb{M} 31'18					
	1043 Sep 26 j 01:14	0° $\underline{\Omega}$		superior conj	1044 Sep 17 j 14:42	0° $\underline{\Omega}$ 23'09	1°12'58
				minimum elong	1044 Sep 17 j 19:24	0° $\underline{\Omega}$ 43'32	1°12'26
superior conj	1043 Oct 07 j 09:50	19° $\underline{\Omega}$ 18'49	0°39'01	max. Earth dist.	1044 Sep 25 j 01:35	12° $\underline{\Omega}$ 59'41	1.42528 AU
minimum elong	1043 Oct 07 j 13:42	19° $\underline{\Omega}$ 34'43	0°38'30	desc. node	1044 Sep 29 j 04:38	19° $\underline{\Omega}$ 41'51	
desc. node	1043 Oct 13 j 07:37	28° $\underline{\Omega}$ 55'33		evening rise	1044 Oct 01 j 15:59	23° $\underline{\Omega}$ 37'46	
max. Earth dist.	1043 Oct 13 j 12:48	29° $\underline{\Omega}$ 16'21	1.44007 AU		1044 Oct 05 j 18:04	0° \mathbb{M}	
	1043 Oct 13 j 23:43	0° \mathbb{M}			1044 Oct 26 j 13:49	0° \mathbb{M}	
evening rise	1043 Oct 23 j 03:16	14° \mathbb{M} 20'54		evening max el	1044 Nov 02 j 19:09	8° \mathbb{M} 30'07	22°01'08
	1043 Nov 02 j 10:55	0° \mathbb{M}		retrograde	1044 Nov 12 j 02:28	14° \mathbb{M} 02'12	
evening max el	1043 Nov 20 j 23:25	24° \mathbb{M} 59'46	20°47'28	evening set	1044 Nov 16 j 12:21	12° \mathbb{M} 16'48	
retrograde	1043 Nov 29 j 06:06	29° \mathbb{M} 53'36		asc. node	1044 Nov 17 j 05:23	11° \mathbb{M} 39'44	
asc. node	1043 Dec 01 j 08:21	29° \mathbb{M} 28'55		inferior conj	1044 Nov 21 j 20:44	5° \mathbb{M} 58'39	1°32'32
evening set	1043 Dec 03 j 04:39	28° \mathbb{M} 24'50		minimum elong	1044 Nov 21 j 18:46	6° \mathbb{M} 05'26	1°31'47
inferior conj	1043 Dec 08 j 13:54	22° \mathbb{M} 14'41	2°17'26	min. Earth dist.	1044 Nov 21 j 21:50	5° \mathbb{M} 54'51	0.67708 AU
minimum elong	1043 Dec 08 j 11:21	22° \mathbb{M} 23'25	2°16'35		1044 Nov 26 j 19:02	30° \mathbb{M}	
min. Earth dist.	1043 Dec 09 j 02:22	21° \mathbb{M} 32'05	0.67353 AU	morning rise	1044 Nov 27 j 01:03	29° \mathbb{M} 46'50	
morning rise	1043 Dec 13 j 17:52	16° \mathbb{M} 01'24		direct	1044 Dec 01 j 20:35	27° \mathbb{M} 45'21	
direct	1043 Dec 19 j 04:33	13° \mathbb{M} 37'44			1044 Dec 07 j 13:44	0° \mathbb{M}	
morning max el	1043 Dec 30 j 04:18	20° \mathbb{M} 11'03	24°07'35	morning max el	1044 Dec 11 j 14:28	3° \mathbb{M} 31'28	22°39'29
	1044 Jan 07 j 13:48	0° \mathbb{M}		desc. node	1044 Dec 26 j 03:52	21° \mathbb{M} 53'31	
desc. node	1044 Jan 09 j 06:50	2° \mathbb{M} 14'32			1044 Dec 31 j 17:48	0° \mathbb{M}	
	1044 Jan 27 j 23:56	0° \mathbb{M}		morning set	1045 Jan 14 j 15:04	21° \mathbb{M} 41'22	
morning set	1044 Feb 03 j 22:22	11° \mathbb{M} 36'39		max. Earth dist.	1045 Jan 19 j 12:23	29° \mathbb{M} 52'04	1.40292 AU
max. Earth dist.	1044 Feb 07 j 16:20	18° \mathbb{M} 12'31	1.38147 AU		1045 Jan 19 j 14:15	0° \mathbb{M}	
	1044 Feb 14 j 01:42	0° \mathbb{M}					
				superior conj	1045 Jan 27 j 07:19	13° \mathbb{M} 34'06	-1°59'22
superior conj	1044 Feb 14 j 19:22	1° \mathbb{M} 24'03	-1°44'13	minimum elong	1045 Jan 27 j 09:58	13° \mathbb{M} 46'05	1°59'15
minimum elong	1044 Feb 14 j 23:24	1° \mathbb{M} 43'17	1°43'48		1045 Feb 05 j 03:02	0° \mathbb{M}	
evening rise	1044 Feb 23 j 15:46	18° \mathbb{M} 41'52		evening rise	1045 Feb 06 j 04:50	2° \mathbb{M} 02'14	
asc. node	1044 Feb 27 j 07:41	25° \mathbb{M} 48'45		asc. node	1045 Feb 13 j 04:42	14° \mathbb{M} 56'31	
	1044 Feb 29 j 13:32	0° \mathbb{M}		evening max el	1045 Feb 22 j 10:10	28° \mathbb{M} 02'33	18°23'43
evening max el	1044 Mar 11 j 05:19	15° \mathbb{M} 28'01	18°59'08		1045 Feb 24 j 19:06	0° \mathbb{M}	
retrograde	1044 Mar 19 j 17:21	19° \mathbb{M} 34'49		retrograde	1045 Mar 01 j 18:49	1° \mathbb{M} 40'48	
evening set	1044 Mar 21 j 22:47	19° \mathbb{M} 19'04		evening set	1045 Mar 04 j 05:50	1° \mathbb{M} 17'35	
inferior conj	1044 Mar 30 j 00:09	15° \mathbb{M} 03'53	1°57'33		1045 Mar 07 j 01:18	30° \mathbb{M}	
minimum elong	1044 Mar 30 j 04:06	14° \mathbb{M} 56'56	1°56'22	inferior conj	1045 Mar 11 j 12:37	26° \mathbb{M} 42'05	3°03'58
min. Earth dist.	1044 Apr 02 j 03:37	12° \mathbb{M} 52'04	0.56921 AU	minimum elong	1045 Mar 11 j 16:19	26° \mathbb{M} 34'26	3°03'13
desc. node	1044 Apr 06 j 05:58	10° \mathbb{M} 28'18		min. Earth dist.	1045 Mar 14 j 23:08	23° \mathbb{M} 53'30	0.58863 AU
morning rise	1044 Apr 07 j 06:22	10° \mathbb{M} 01'32		morning rise	1045 Mar 19 j 00:14	21° \mathbb{M} 11'07	
direct	1044 Apr 12 j 11:18	8° \mathbb{M} 57'13		desc. node	1045 Mar 24 j 03:00	19° \mathbb{M} 33'41	
morning max el	1044 Apr 26 j 18:03	16° \mathbb{M} 21'01	25°46'17	direct	1045 Mar 25 j 04:28	19° \mathbb{M} 30'44	
	1044 May 07 j 20:20	0° \mathbb{M}		morning max el	1045 Apr 08 j 12:57	27° \mathbb{M} 12'35	27°00'27
morning set	1044 May 24 j 09:17	29° \mathbb{M} 55'26			1045 Apr 11 j 05:15	0° \mathbb{M}	
	1044 May 24 j 10:09	0° \mathbb{M}			1045 May 01 j 07:55	0° \mathbb{M}	
asc. node	1044 May 25 j 06:56	1° \mathbb{M} 50'08		morning set	1045 May 08 j 19:03	14° \mathbb{M} 44'54	
				asc. node	1045 May 12 j 03:59	21° \mathbb{M} 56'15	
superior conj	1044 May 31 j 08:56	15° \mathbb{M} 03'51	1°00'21				
minimum elong	1044 May 31 j 06:42	14° \mathbb{M} 51'34	0°59'57	superior conj	1045 May 15 j 20:42	0° \mathbb{M} 01'31	0°38'15
max. Earth dist.	1044 Jun 01 j 04:04	16° \mathbb{M} 48'35	1.32542 AU	minimum elong	1045 May 15 j 19:06	29° \mathbb{M} 52'42	0°37'55
evening rise	1044 Jun 07 j 10:02	0° \mathbb{M} 11'11		max. Earth dist.	1045 May 15 j 16:32	29° \mathbb{M} 38'38	1.32263 AU
	1044 Jun 07 j 07:53	0° \mathbb{M}			1045 May 15 j 20:26	0° \mathbb{M}	
	1044 Jun 23 j 21:02	0° Ω		evening rise	1045 May 22 j 18:12	14° \mathbb{M} 58'47	
desc. node	1044 Jul 03 j 05:16	12° Ω 49'57			1045 May 30 j 07:44	0° \mathbb{M}	
evening max el	1044 Jul 08 j 22:02	18° Ω 58'46	27°10'57	desc. node	1045 Jun 20 j 02:16	29° \mathbb{M} 59'32	
retrograde	1044 Jul 22 j 18:53	26° Ω 14'12			1045 Jun 20 j 02:27	0° Ω	
evening set	1044 Jul 29 j 21:26	23° Ω 55'32		evening max el	1045 Jun 20 j 22:50	0° Ω 49'39	26°23'08
min. Earth dist.	1044 Aug 02 j 12:15	21° Ω 10'00	0.61652 AU	retrograde	1045 Jul 04 j 22:39	8° Ω 02'14	
inferior conj	1044 Aug 05 j 14:30	18° Ω 23'50	-4°16'44	evening set	1045 Jul 11 j 11:38	6° Ω 15'40	
minimum elong	1044 Aug 05 j 19:16	18° Ω 13'08	4°15'48	min. Earth dist.	1045 Jul 15 j 11:49	3° Ω 39'10	0.59605 AU

inferior conj	1045 Jul 18 j 19:40	1°♊03'40	-4°46'28	min. Earth dist.	1046 Jun 27 j 04:09	15°♊08'31	0.57601 AU
minimum elong	1045 Jul 18 j 22:14	0°♊58'40	4°46'15	inferior conj	1046 Jun 30 j 05:49	13°♊04'00	-4°49'09
	1045 Jul 20 j 04:40	30°♋♊		minimum elong	1046 Jun 30 j 03:54	13°♊07'17	4°49'03
morning rise	1045 Jul 26 j 10:53	26°♊29'39		morning rise	1046 Jul 08 j 07:55	8°♊52'11	
direct	1045 Jul 28 j 22:14	26°♊07'54		direct	1046 Jul 10 j 21:32	8°♊32'46	
morning max el	1045 Aug 05 j 14:22	29°♊50'01	18°20'02	morning max el	1046 Jul 19 j 16:50	12°♊40'05	19°04'02
	1045 Aug 05 j 18:30	0°♊		asc. node	1046 Jul 26 j 00:15	20°♊30'11	
asc. node	1045 Aug 08 j 03:12	2°♊36'56			1046 Jul 31 j 13:56	0°♊	
morning set	1045 Aug 21 j 14:20	25°♊16'42		morning set	1046 Aug 05 j 11:53	9°♊28'35	
	1045 Aug 24 j 01:45	0°♋					
superior conj	1045 Aug 30 j 20:01	12°♋40'21	1°34'25	superior conj	1046 Aug 13 j 20:05	25°♊53'30	1°44'43
minimum elong	1045 Aug 30 j 23:17	12°♋55'18	1°34'09	minimum elong	1046 Aug 13 j 21:19	25°♊59'29	1°44'40
max. Earth dist.	1045 Sep 07 j 08:59	26°♋02'43	1.40644 AU		1046 Aug 15 j 23:45	0°♋	
	1045 Sep 09 j 16:54	0°♌		max. Earth dist.	1046 Aug 20 j 12:18	8°♋21'24	1.38607 AU
evening rise	1045 Sep 11 j 23:53	3°♌48'38		evening rise	1046 Aug 24 j 08:14	15°♋07'59	
desc. node	1045 Sep 16 j 01:38	10°♌24'11			1046 Sep 02 j 07:52	0°♌	
	1045 Sep 29 j 00:52	0°♍		desc. node	1046 Sep 02 j 22:37	0°♌58'04	
evening max el	1045 Oct 16 j 10:06	22°♍02'24	23°20'33		1046 Sep 23 j 18:23	0°♍	
retrograde	1045 Oct 26 j 20:10	28°♍12'29		evening max el	1046 Sep 28 j 22:17	5°♍37'39	24°39'35
evening set	1045 Oct 31 j 19:04	26°♍09'32		retrograde	1046 Oct 10 j 10:05	12°♍20'00	
asc. node	1045 Nov 04 j 02:25	22°♍33'49		evening set	1046 Oct 15 j 23:07	10°♍00'07	
inferior conj	1045 Nov 06 j 03:59	19°♍47'05	0°42'24	min. Earth dist.	1046 Oct 20 j 13:56	4°♍44'01	0.67414 AU
minimum elong	1045 Nov 06 j 03:00	19°♍50'28	0°41'59	inferior conj	1046 Oct 21 j 09:56	3°♍37'28	-0°11'41
min. Earth dist.	1045 Nov 05 j 18:28	20°♍19'45	0.67725 AU	minimum elong	1046 Oct 21 j 10:13	3°♍36'31	0°11'33
morning rise	1045 Nov 11 j 10:54	13°♍38'45		transit middle	1046 Oct 21 j 10:13	3°♍36'31	0°11'33
direct	1045 Nov 15 j 15:58	12°♍00'05		transit begin	1046 Oct 21 j 08:17	3°♍42'57	
morning max el	1045 Nov 24 j 06:07	17°♍00'49	21°16'24	transit end	1046 Oct 21 j 12:09	3°♍30'04	
	1045 Dec 04 j 17:43	0°♎		asc. node	1046 Oct 21 j 23:28	2°♍52'35	
desc. node	1045 Dec 13 j 00:54	11°♎56'57			1046 Oct 24 j 07:04	30°♎♌	
	1045 Dec 24 j 20:33	0°♏		morning rise	1046 Oct 26 j 21:25	27°♏34'59	
morning set	1045 Dec 25 j 03:19	0°♏26'36		direct	1046 Oct 30 j 13:39	26°♏17'14	
max. Earth dist.	1046 Jan 01 j 14:24	12°♏25'39	1.42288 AU		1046 Nov 06 j 12:48	0°♍	
				morning max el	1046 Nov 07 j 05:14	0°♍40'16	20°04'12
superior conj	1046 Jan 08 j 21:33	24°♏34'35	-2°03'13		1046 Nov 28 j 09:53	0°♎	
minimum elong	1046 Jan 08 j 20:29	24°♏36'00	2°03'13	desc. node	1046 Nov 29 j 21:56	2°♎17'36	
	1046 Jan 11 j 23:14	0°♐		morning set	1046 Dec 03 j 23:43	8°♎33'35	
evening rise	1046 Jan 20 j 04:34	14°♐41'31		max. Earth dist.	1046 Dec 14 j 23:35	25°♎49'08	1.43864 AU
	1046 Jan 28 j 20:28	0°♑			1046 Dec 17 j 14:04	0°♏	
asc. node	1046 Jan 31 j 01:43	3°♑33'22		superior conj	1046 Dec 20 j 09:41	4°♏34'35	-1°50'58
evening max el	1046 Feb 05 j 20:18	11°♑00'53	18°08'15	minimum elong	1046 Dec 20 j 03:25	4°♏09'03	1°50'34
retrograde	1046 Feb 12 j 13:14	14°♑26'24		evening rise	1047 Jan 02 j 10:40	26°♏31'00	
evening set	1046 Feb 15 j 05:17	13°♑54'06			1047 Jan 04 j 11:09	0°♐	
inferior conj	1046 Feb 21 j 20:51	8°♑57'41	3°37'59	asc. node	1047 Jan 17 j 22:45	21°♐29'57	
minimum elong	1046 Feb 21 j 22:37	8°♑53'27	3°37'50	evening max el	1047 Jan 20 j 08:44	24°♐15'10	18°12'12
min. Earth dist.	1046 Feb 25 j 01:22	5°♑56'29	0.60987 AU	retrograde	1047 Jan 26 j 20:07	27°♐41'42	
morning rise	1046 Feb 28 j 14:13	3°♑07'32		evening set	1047 Jan 29 j 17:01	26°♐59'15	
direct	1046 Mar 07 j 09:05	0°♑51'32		inferior conj	1047 Feb 04 j 21:02	21°♐42'52	3°46'44
desc. node	1046 Mar 11 j 00:03	1°♑27'27		minimum elong	1047 Feb 04 j 20:46	21°♐43'36	3°46'44
morning max el	1046 Mar 21 j 14:16	8°♑43'27	27°41'45	min. Earth dist.	1047 Feb 07 j 12:31	18°♐52'30	0.63000 AU
	1046 Apr 06 j 22:01	0°♒		morning rise	1047 Feb 10 j 23:33	15°♐41'37	
morning set	1046 Apr 23 j 01:06	29°♒21'06		direct	1047 Feb 17 j 22:56	13°♐00'11	
	1046 Apr 23 j 08:39	0°♓		desc. node	1047 Feb 25 j 21:06	15°♐51'55	
max. Earth dist.	1046 Apr 29 j 04:10	12°♓23'18	1.32359 AU	morning max el	1047 Mar 03 j 20:49	20°♐54'48	27°45'52
asc. node	1046 Apr 29 j 01:01	12°♓06'05			1047 Mar 11 j 17:58	0°♑	
					1047 Mar 30 j 22:45	0°♒	
superior conj	1046 Apr 30 j 07:44	14°♓53'52	0°13'32	morning set	1047 Apr 07 j 01:17	13°♒36'50	
minimum elong	1046 Apr 30 j 07:07	14°♓50'29	0°13'23	max. Earth dist.	1047 Apr 12 j 11:02	24°♒49'24	1.32853 AU
behind sun begin	1046 Apr 30 j 04:24	14°♓35'33					
behind sun end	1046 Apr 30 j 09:51	15°♓05'26		superior conj	1047 Apr 14 j 16:22	29°♒35'17	-0°13'03
evening rise	1046 May 07 j 05:08	29°♓51'48		minimum elong	1047 Apr 14 j 16:59	29°♒38'40	0°12'55
	1046 May 07 j 06:41	0°♔		behind sun begin	1047 Apr 14 j 13:55	29°♒22'04	
	1046 May 23 j 20:42	0°♕		behind sun end	1047 Apr 14 j 20:04	29°♒55'17	
evening max el	1046 Jun 02 j 16:32	11°♕54'40	25°06'59		1047 Apr 14 j 20:56	0°♔	
desc. node	1046 Jun 06 j 23:17	15°♕29'00		asc. node	1047 Apr 15 j 22:03	2°♔15'46	
retrograde	1046 Jun 16 j 16:36	19°♕02'09		evening rise	1047 Apr 21 j 17:00	14°♔43'59	
evening set	1046 Jun 22 j 02:34	17°♕54'34			1047 Apr 29 j 09:09	0°♔	

evening max el	1047 May 15 j 06:40	22° Π 30'43	23°34'03	evening max el	1048 Apr 26 j 00:05	3° Π 06'09	21°59'19
desc. node	1047 May 24 j 20:18	28° Π 42'45		retrograde	1048 May 08 j 15:57	9° Π 19'09	
retrograde	1047 May 28 j 22:28	29° Π 20'48		desc. node	1048 May 10 j 17:21	9° Π 09'39	
evening set	1047 Jun 01 j 20:56	28° Π 46'44		evening set	1048 May 11 j 08:30	9° Π 03'03	
min. Earth dist.	1047 Jun 08 j 17:08	25° Π 36'15	0.55976 AU	min. Earth dist.	1048 May 20 j 05:18	5° Π 16'11	0.55064 AU
inferior conj	1047 Jun 10 j 19:54	24° Π 20'15	-4°11'21	inferior conj	1048 May 20 j 18:13	4° Π 58'04	-2°46'49
minimum elong	1047 Jun 10 j 13:18	24° Π 30'11	4°10'05	minimum elong	1048 May 20 j 11:08	5° Π 08'00	2°44'37
morning rise	1047 Jun 19 j 08:22	20° Π 24'00		morning rise	1048 May 29 j 15:08	1° Π 03'47	
direct	1047 Jun 22 j 01:35	20° Π 05'36		direct	1048 Jun 01 j 15:14	0° Π 43'41	
morning max el	1047 Jul 02 j 09:06	24° Π 52'02	20°09'09	morning max el	1048 Jun 13 j 13:55	6° Π 19'43	21°33'51
	1047 Jul 06 j 22:47	0° Ξ		asc. node	1048 Jun 28 j 18:21	28° Π 16'02	
asc. node	1047 Jul 12 j 21:18	9° Ξ 06'53			1048 Jun 29 j 16:02	0° Ξ	
morning set	1047 Jul 20 j 16:13	24° Ξ 01'22		morning set	1048 Jul 04 j 00:57	8° Ξ 48'12	
	1047 Jul 23 j 14:20	0° Ω					
superior conj	1047 Jul 28 j 09:43	9° Ω 47'50	1°45'56	superior conj	1048 Jul 11 j 08:49	24° Ξ 10'59	1°39'54
minimum elong	1047 Jul 28 j 09:11	9° Ω 45'12	1°45'56	minimum elong	1048 Jul 11 j 07:06	24° Ξ 01'58	1°39'48
max. Earth dist.	1047 Aug 02 j 17:15	20° Ω 13'54	1.36673 AU	max. Earth dist.	1048 Jul 14 j 04:32	0° Ω	
evening rise	1047 Aug 06 j 15:05	27° Ω 32'02		evening rise	1048 Jul 15 j 05:39	2° Ω 07'09	1.35022 AU
	1047 Aug 07 j 23:47	0° \P		evening rise	1048 Jul 19 j 15:43	10° Ω 48'05	
desc. node	1047 Aug 20 j 19:37	21° \P 18'40		desc. node	1048 Jul 30 j 10:47	0° \P	
	1047 Aug 26 j 16:51	0° Δ		desc. node	1048 Aug 06 j 16:39	11° \P 19'42	
evening max el	1047 Sep 11 j 10:03	19° Δ 16'02	25°50'54	evening max el	1048 Aug 21 j 02:55	0° Δ	
retrograde	1047 Sep 23 j 19:21	26° Δ 20'09		evening max el	1048 Aug 23 j 22:17	2° Δ 51'58	26°46'43
evening set	1047 Sep 29 j 22:42	23° Δ 46'02		retrograde	1048 Sep 05 j 23:20	10° Δ 07'09	
min. Earth dist.	1047 Oct 04 j 05:49	19° Δ 05'31	0.66775 AU	evening set	1048 Sep 12 j 15:46	7° Δ 24'02	
inferior conj	1047 Oct 05 j 12:47	17° Δ 27'32	-1°08'14	min. Earth dist.	1048 Sep 16 j 15:41	3° Δ 20'26	0.65791 AU
minimum elong	1047 Oct 05 j 14:33	17° Δ 21'58	1°07'29	inferior conj	1048 Sep 18 j 10:36	1° Δ 14'03	-2°05'32
asc. node	1047 Oct 08 j 20:31	13° Δ 33'41		minimum elong	1048 Sep 18 j 13:53	1° Δ 04'24	2°04'16
morning rise	1047 Oct 11 j 06:41	11° Δ 33'40			1048 Sep 19 j 12:01	30° \P	
direct	1047 Oct 14 j 12:11	10° Δ 33'36		morning rise	1048 Sep 24 j 12:33	25° \P 32'00	
morning max el	1047 Oct 21 j 11:47	14° Δ 28'39	19°06'16	asc. node	1048 Sep 24 j 17:35	25° \P 25'35	
	1047 Nov 02 j 01:53	0° \P		direct	1048 Sep 27 j 09:38	24° \P 45'57	
morning set	1047 Nov 13 j 05:09	17° \P 14'59		morning max el	1048 Oct 04 j 00:06	28° \P 22'36	18°24'25
desc. node	1047 Nov 16 j 18:56	22° \P 50'19			1048 Oct 05 j 12:02	0° Δ	
	1047 Nov 21 j 08:45	0° \P		morning set	1048 Oct 23 j 13:12	27° Δ 18'54	
max. Earth dist.	1047 Nov 27 j 14:58	9° \P 49'44	1.44835 AU	desc. node	1048 Oct 25 j 05:06	0° \P	
				desc. node	1048 Nov 02 j 15:57	13° \P 31'33	
superior conj	1047 Nov 29 j 21:13	13° \P 23'52	-1°19'57	superior conj	1048 Nov 07 j 22:06	21° \P 49'50	-0°34'23
minimum elong	1047 Nov 29 j 12:40	12° \P 50'03	1°19'01	minimum elong	1048 Nov 07 j 17:37	21° \P 32'10	0°33'48
	1047 Dec 10 j 06:11	0° Ξ		max. Earth dist.	1048 Nov 09 j 09:55	24° \P 10'44	1.45089 AU
evening rise	1047 Dec 14 j 18:55	7° Ξ 23'18			1048 Nov 13 j 02:55	0° \P	
	1047 Dec 28 j 21:16	0° \approx		evening rise	1048 Nov 24 j 03:44	17° \P 19'03	
evening max el	1048 Jan 03 j 20:44	7° \approx 38'08	18°34'40		1048 Dec 02 j 05:28	0° Ξ	
asc. node	1048 Jan 04 j 19:48	8° \approx 33'45		greatest brilliancy	1048 Dec 04 j 11:16	3° Ξ 29'09	-0.8m
retrograde	1048 Jan 10 j 11:09	11° \approx 17'19		evening max el	1048 Dec 17 j 05:56	21° Ξ 05'32	19°14'24
evening set	1048 Jan 13 j 13:27	10° \approx 23'39		asc. node	1048 Dec 21 j 16:52	24° Ξ 30'59	
inferior conj	1048 Jan 19 j 09:08	4° \approx 48'54	3°36'58	retrograde	1048 Dec 24 j 06:57	25° Ξ 07'35	
minimum elong	1048 Jan 19 j 07:24	4° \approx 54'05	3°36'45	evening set	1048 Dec 27 j 15:47	24° Ξ 01'25	
min. Earth dist.	1048 Jan 21 j 09:10	2° \approx 26'26	0.64717 AU	inferior conj	1049 Jan 02 j 05:47	18° Ξ 10'26	3°13'41
	1048 Jan 23 j 14:53	30° \P		minimum elong	1049 Jan 02 j 03:15	18° Ξ 18'32	3°13'08
morning rise	1048 Jan 25 j 00:52	28° Ξ 41'17		min. Earth dist.	1049 Jan 03 j 14:43	16° Ξ 25'05	0.66053 AU
direct	1048 Jan 31 j 20:05	25° Ξ 49'23		morning rise	1049 Jan 07 j 14:28	11° Ξ 59'08	
	1048 Feb 10 j 06:02	0° \approx		direct	1049 Jan 13 j 23:23	9° Ξ 10'48	
desc. node	1048 Feb 12 j 18:09	2° \approx 10'24		morning max el	1049 Jan 26 j 15:36	16° Ξ 40'03	26°15'47
morning max el	1048 Feb 14 j 06:02	3° \approx 37'16	27°15'00	desc. node	1049 Jan 29 j 15:12	19° Ξ 51'15	
	1048 Mar 05 j 03:54	0° \P			1049 Feb 06 j 18:06	0° \approx	
morning set	1048 Mar 20 j 16:38	27° \P 21'41			1049 Feb 26 j 01:13	0° \P	
	1048 Mar 22 j 00:54	0° \P		morning set	1049 Mar 03 j 19:23	10° \P 24'23	
max. Earth dist.	1048 Mar 25 j 09:14	6° \P 44'44	1.33780 AU	max. Earth dist.	1049 Mar 07 j 20:09	18° \P 06'54	1.35162 AU
superior conj	1048 Mar 28 j 20:33	13° \P 58'23	-0°40'28	superior conj	1049 Mar 12 j 17:57	27° \P 56'09	-1°07'27
minimum elong	1048 Mar 28 j 22:33	14° \P 08'55	0°40'04	minimum elong	1049 Mar 12 j 21:13	28° \P 12'50	1°06'53
asc. node	1048 Apr 01 j 19:05	22° \P 20'26			1049 Mar 13 j 18:08	0° \P	
evening rise	1048 Apr 05 j 03:53	29° \P 27'57		asc. node	1049 Mar 19 j 16:09	12° \P 15'57	
	1048 Apr 05 j 10:01	0° \P		evening rise	1049 Mar 20 j 11:52	13° \P 57'38	
	1048 Apr 23 j 02:29	0° Π			1049 Mar 28 j 19:34	0° \P	

evening max el	1049 Apr 08 j 02:51	14°♄07'39	20°35'11			1050 Mar 05 j 13:30	0°♄		
retrograde	1049 Apr 19 j 04:55	19°♄29'38		asc. node		1050 Mar 06 j 13:13	1°♄57'34		
evening set	1049 Apr 21 j 07:43	19°♄18'42		evening max el		1050 Mar 21 j 17:06	25°♄47'37	19°28'33	
desc. node	1049 Apr 27 j 14:24	16°♄58'53				1050 Mar 28 j 13:58	0°♄		
inferior conj	1049 Apr 30 j 12:31	15°♄20'58	-0°50'45	retrograde		1050 Mar 31 j 02:19	0°♄19'02		
minimum elong	1049 Apr 30 j 10:07	15°♄24'26	0°49'53	evening set		1050 Apr 02 j 04:45	0°♄06'24		
min. Earth dist.	1049 May 01 j 18:06	14°♄38'19	0.55077 AU			1050 Apr 02 j 16:29	30°♄♂		
morning rise	1049 May 09 j 11:37	11°♄09'48		inferior conj		1050 Apr 10 j 17:17	26°♄00'27	1°03'33	
direct	1049 May 13 j 01:52	10°♄41'56		minimum elong		1050 Apr 10 j 19:51	25°♄56'17	1°02'40	
morning max el	1049 May 26 j 09:13	17°♄08'35	23°12'19	min. Earth dist.		1050 Apr 13 j 08:39	24°♄18'26	0.56016 AU	
	1049 Jun 05 j 16:46	0°♄		desc. node		1050 Apr 14 j 11:25	23°♄37'27		
asc. node	1049 Jun 15 j 15:23	17°♄49'18		morning rise		1050 Apr 19 j 08:12	21°♄17'18		
morning set	1049 Jun 18 j 12:07	23°♄43'12		direct		1050 Apr 23 j 21:32	20°♄30'19		
	1049 Jun 21 j 11:01	0°♄		morning max el		1050 May 08 j 00:04	27°♄38'09	24°53'15	
						1050 May 10 j 07:47	0°♄		
superior conj	1049 Jun 25 j 14:18	8°♄53'27	1°28'06			1050 May 29 j 18:06	0°♄		
minimum elong	1049 Jun 25 j 11:57	8°♄40'54	1°27'49	asc. node		1050 Jun 02 j 12:27	7°♄40'08		
max. Earth dist.	1049 Jun 28 j 03:26	14°♄17'59	1.33747 AU	morning set		1050 Jun 03 j 00:03	8°♄41'09		
evening rise	1049 Jul 03 j 05:31	24°♄43'08							
	1049 Jul 05 j 22:30	0°♄		superior conj		1050 Jun 09 j 23:47	23°♄47'48	1°11'38	
	1049 Jul 23 j 22:55	0°♄		minimum elong		1050 Jun 09 j 21:22	23°♄34'39	1°11'15	
desc. node	1049 Jul 24 j 13:42	0°♄52'07		max. Earth dist.		1050 Jun 11 j 09:22	26°♄50'13	1.32865 AU	
evening max el	1049 Aug 06 j 10:03	16°♄13'52	27°19'36			1050 Jun 12 j 20:35	0°♄		
retrograde	1049 Aug 19 j 21:32	23°♄32'26		evening rise		1050 Jun 17 j 04:44	9°♄06'27		
evening set	1049 Aug 26 j 23:34	20°♄48'52				1050 Jun 28 j 07:20	0°♄		
min. Earth dist.	1049 Aug 30 j 17:10	17°♄21'12	0.64447 AU	desc. node		1050 Jul 11 j 10:43	19°♄44'03		
inferior conj	1049 Sep 02 j 00:58	14°♄51'16	-3°01'19	evening max el		1050 Jul 19 j 19:24	29°♄09'31	27°23'24	
minimum elong	1049 Sep 02 j 05:31	14°♄39'01	2°59'49			1050 Jul 20 j 17:10	0°♄		
morning rise	1049 Sep 08 j 12:23	9°♄24'29		retrograde		1050 Aug 02 j 13:40	6°♄27'18		
direct	1049 Sep 11 j 03:28	8°♄48'54		evening set		1050 Aug 09 j 18:43	3°♄55'15		
asc. node	1049 Sep 11 j 14:38	8°♄50'02		min. Earth dist.		1050 Aug 13 j 08:42	0°♄57'41	0.62757 AU	
morning max el	1049 Sep 17 j 15:36	12°♄15'58	17°59'31			1050 Aug 14 j 09:04	30°♄♂		
	1049 Sep 29 j 21:10	0°♄		inferior conj		1050 Aug 16 j 05:07	28°♄13'12	-3°51'59	
morning set	1049 Oct 05 j 01:34	8°♄45'28		minimum elong		1050 Aug 16 j 10:12	28°♄00'56	3°50'43	
	1049 Oct 17 j 20:58	0°♄		morning rise		1050 Aug 23 j 03:01	23°♄04'54		
				direct		1050 Aug 25 j 14:34	22°♄36'40		
superior conj	1049 Oct 18 j 10:03	0°♄52'49	0°14'10	asc. node		1050 Aug 29 j 11:39	23°♄47'14		
minimum elong	1049 Oct 18 j 11:42	0°♄59'28	0°13'57	morning max el		1050 Sep 01 j 07:25	26°♄02'36	17°52'24	
behind sun begin	1049 Oct 18 j 06:23	0°♄38'00				1050 Sep 04 j 16:13	0°♄		
behind sun end	1049 Oct 18 j 17:02	1°♄20'55		morning set		1050 Sep 17 j 12:54	21°♄18'00		
desc. node	1049 Oct 20 j 13:00	4°♄17'23				1050 Sep 22 j 11:04	0°♄		
max. Earth dist.	1049 Oct 23 j 04:46	8°♄31'15	1.44600 AU						
evening rise	1049 Nov 03 j 17:25	26°♄30'52		superior conj		1050 Sep 28 j 23:17	11°♄11'35	0°54'57	
	1049 Nov 05 j 23:48	0°♄		minimum elong		1050 Sep 29 j 03:54	11°♄31'01	0°54'22	
greatest brilliancy	1049 Nov 17 j 22:05	18°♄02'06	-0.6m	max. Earth dist.		1050 Oct 05 j 20:02	22°♄31'36	1.43441 AU	
	1049 Nov 26 j 12:00	0°♄		desc. node		1050 Oct 07 j 10:02	25°♄04'39		
evening max el	1049 Nov 30 j 10:25	4°♄34'06	20°09'37			1050 Oct 10 j 12:18	0°♄		
retrograde	1049 Dec 08 j 04:40	9°♄07'27		evening rise		1050 Oct 14 j 01:18	5°♄32'39		
asc. node	1049 Dec 08 j 13:55	9°♄06'37				1050 Oct 30 j 09:09	0°♄		
evening set	1049 Dec 11 j 21:41	7°♄47'19		evening max el		1050 Nov 13 j 09:14	18°♄03'20	21°17'41	
inferior conj	1049 Dec 17 j 08:08	1°♄42'59	2°40'16	retrograde		1050 Nov 22 j 02:09	23°♄13'44		
minimum elong	1049 Dec 17 j 05:26	1°♄52'04	2°39'29	asc. node		1050 Nov 25 j 10:56	22°♄10'27		
min. Earth dist.	1049 Dec 18 j 03:33	0°♄37'43	0.66988 AU	evening set		1050 Nov 26 j 05:13	21°♄38'04		
	1049 Dec 18 j 14:52	30°♄♂		inferior conj		1050 Dec 01 j 13:54	15°♄23'47	1°59'05	
morning rise	1049 Dec 22 j 13:00	25°♄29'49		minimum elong		1050 Dec 01 j 11:33	15°♄31'53	1°58'15	
direct	1049 Dec 28 j 08:08	22°♄55'26		min. Earth dist.		1050 Dec 01 j 21:22	14°♄58'02	0.67546 AU	
morning max el	1050 Jan 09 j 00:19	29°♄52'50	24°57'21	morning rise		1050 Dec 06 j 17:43	9°♄10'40		
	1050 Jan 09 j 03:10	0°♄		direct		1050 Dec 11 j 21:48	6°♄56'18		
desc. node	1050 Jan 16 j 12:14	8°♄30'19		morning max el		1050 Dec 22 j 09:09	13°♄10'33	23°29'53	
	1050 Jan 31 j 15:34	0°♄		desc. node		1051 Jan 03 j 09:17	27°♄51'05		
morning set	1050 Feb 14 j 04:24	22°♄30'28				1051 Jan 04 j 22:33	0°♄		
max. Earth dist.	1050 Feb 17 j 20:21	29°♄09'33	1.36964 AU			1051 Jan 24 j 12:52	0°♄		
	1050 Feb 18 j 07:14	0°♄		morning set		1051 Jan 26 j 13:28	3°♄23'35		
				max. Earth dist.		1051 Jan 30 j 15:09	10°♄23'46	1.39053 AU	
superior conj	1050 Feb 24 j 05:35	11°♄20'08	-1°32'06						
minimum elong	1050 Feb 24 j 09:38	11°♄39'59	1°31'34	superior conj		1051 Feb 07 j 03:32	24°♄00'23	-1°51'44	
evening rise	1050 Mar 04 j 14:43	28°♄06'10		minimum elong		1051 Feb 07 j 07:13	24°♄17'39	1°51'28	

	1051 Feb 10 j 07:37	0°♄		evening rise	1052 Jan 30 j 17:39	24°♄50'15	
evening rise	1051 Feb 16 j 09:45	11°♄46'12			1052 Feb 02 j 12:30	0°♄	
asc. node	1051 Feb 21 j 10:15	21°♄19'29		asc. node	1052 Feb 08 j 07:17	10°♄15'27	
	1051 Feb 26 j 11:06	0°♄		evening max el	1052 Feb 16 j 01:05	20°♄50'59	18°14'48
evening max el	1051 Mar 04 j 17:29	8°♄04'29	18°41'39	retrograde	1052 Feb 23 j 01:34	24°♄21'37	
retrograde	1051 Mar 12 j 16:39	11°♄57'16		evening set	1052 Feb 25 j 14:52	23°♄54'39	
evening set	1051 Mar 15 j 00:17	11°♄38'46		inferior conj	1052 Mar 03 j 14:45	19°♄10'32	3°21'56
inferior conj	1051 Mar 22 j 17:28	7°♄15'33	2°30'02	minimum elong	1052 Mar 03 j 17:43	19°♄03'59	3°21'29
minimum elong	1051 Mar 22 j 21:39	7°♄07'40	2°28'56	min. Earth dist.	1052 Mar 07 j 00:09	16°♄13'18	0.59765 AU
min. Earth dist.	1051 Mar 26 j 02:00	4°♄45'05	0.57692 AU	morning rise	1052 Mar 10 j 18:20	13°♄30'27	
morning rise	1051 Mar 30 j 15:58	1°♄59'34		direct	1052 Mar 17 j 06:17	11°♄33'49	
desc. node	1051 Apr 01 j 08:28	1°♄19'38		desc. node	1052 Mar 18 j 05:29	11°♄36'21	
direct	1051 Apr 05 j 07:30	0°♄40'23		morning max el	1052 Mar 31 j 13:32	19°♄20'55	27°22'24
morning max el	1051 Apr 19 j 16:10	8°♄14'16	26°21'21		1052 Apr 09 j 14:35	0°♄	
	1051 May 06 j 00:05	0°♄			1052 Apr 27 j 16:34	0°♄	
morning set	1051 May 18 j 11:04	23°♄35'07		morning set	1052 May 01 j 19:27	8°♄19'25	
asc. node	1051 May 20 j 09:29	27°♄41'56		asc. node	1052 May 06 j 06:33	17°♄50'09	
	1051 May 21 j 11:04	0°♄					
superior conj	1051 May 25 j 11:12	8°♄45'58	0°51'22	superior conj	1052 May 08 j 22:52	23°♄42'05	0°28'03
minimum elong	1051 May 25 j 09:11	8°♄34'53	0°50'58	minimum elong	1052 May 08 j 21:39	23°♄35'21	0°27'47
max. Earth dist.	1051 May 25 j 20:16	9°♄35'43	1.32369 AU	max. Earth dist.	1052 May 08 j 08:41	22°♄24'13	1.32256 AU
evening rise	1051 Jun 01 j 10:18	23°♄47'19			1052 May 11 j 19:44	0°♄	
	1051 Jun 04 j 11:12	0°♄		evening rise	1052 May 15 j 19:53	8°♄38'03	
	1051 Jun 22 j 05:11	0°♄			1052 May 26 j 22:05	0°♄	
desc. node	1051 Jun 28 j 07:44	7°♄37'35		evening max el	1052 Jun 12 j 21:46	22°♄57'23	25°53'44
evening max el	1051 Jul 01 j 23:54	11°♄26'17	26°54'32	desc. node	1052 Jun 14 j 04:45	24°♄08'34	
retrograde	1051 Jul 15 j 22:37	18°♄41'22			1052 Jun 25 j 02:27	0°♄	
evening set	1051 Jul 22 j 20:51	16°♄34'54		retrograde	1052 Jun 26 j 22:30	0°♄08'08	
min. Earth dist.	1051 Jul 26 j 13:59	13°♄55'17	0.60792 AU		1052 Jun 28 j 18:20	30°♄	
inferior conj	1051 Jul 29 j 19:40	11°♄10'59	-4°31'52	evening set	1052 Jul 03 j 01:19	28°♄38'20	
minimum elong	1051 Jul 29 j 23:47	11°♄02'14	4°31'15	min. Earth dist.	1052 Jul 07 j 10:17	25°♄59'38	0.58729 AU
morning rise	1051 Aug 06 j 04:34	6°♄23'51		inferior conj	1052 Jul 10 j 17:05	23°♄35'06	-4°51'44
direct	1051 Aug 08 j 15:10	6°♄00'24		minimum elong	1052 Jul 10 j 17:58	23°♄33'28	4°51'43
morning max el	1051 Aug 15 j 20:27	9°♄34'02	18°04'09	morning rise	1052 Jul 18 j 12:55	19°♄10'28	
asc. node	1051 Aug 16 j 08:41	10°♄04'34		direct	1052 Jul 21 j 01:01	18°♄49'50	
	1051 Aug 29 j 04:57	0°♄		morning max el	1052 Jul 29 j 03:35	22°♄41'29	18°36'06
morning set	1051 Aug 31 j 17:11	4°♄39'02		asc. node	1052 Aug 02 j 05:44	27°♄26'56	
					1052 Aug 04 j 00:14	0°♄	
superior conj	1051 Sep 10 j 15:10	22°♄48'39	1°23'33	morning set	1052 Aug 14 j 09:33	18°♄35'33	
minimum elong	1051 Sep 10 j 19:25	23°♄07'32	1°23'06		1052 Aug 20 j 07:09	0°♄	
	1051 Sep 14 j 17:50	0°♄		superior conj	1052 Aug 23 j 05:06	5°♄31'12	1°40'01
max. Earth dist.	1051 Sep 18 j 05:52	5°♄56'24	1.41763 AU	minimum elong	1052 Aug 23 j 07:31	5°♄42'30	1°39'52
evening rise	1051 Sep 23 j 20:51	15°♄09'01		max. Earth dist.	1052 Aug 30 j 11:08	18°♄39'58	1.39786 AU
desc. node	1051 Sep 24 j 07:03	15°♄49'49		evening rise	1052 Sep 03 j 15:06	25°♄48'54	
	1051 Oct 03 j 10:29	0°♄			1052 Sep 06 j 03:31	0°♄	
evening max el	1051 Oct 25 j 14:45	0°♄		desc. node	1052 Sep 10 j 04:03	6°♄29'13	
retrograde	1051 Oct 27 j 02:42	1°♄34'19	22°34'36		1052 Sep 26 j 03:19	0°♄	
evening set	1051 Nov 05 j 21:35	7°♄23'20		evening max el	1052 Oct 08 j 16:22	15°♄08'30	23°54'44
asc. node	1051 Nov 12 j 07:57	3°♄45'28		retrograde	1052 Oct 19 j 13:40	21°♄32'46	
	1051 Nov 15 j 06:46	30°♄		evening set	1052 Oct 24 j 18:28	19°♄22'41	
inferior conj	1051 Nov 15 j 21:09	29°♄10'17	1°11'50	asc. node	1052 Oct 29 j 04:59	14°♄18'01	
minimum elong	1051 Nov 15 j 19:34	29°♄15'46	1°11'12	min. Earth dist.	1052 Oct 29 j 14:11	13°♄46'58	0.67635 AU
min. Earth dist.	1051 Nov 15 j 17:45	29°♄22'03	0.67753 AU	inferior conj	1052 Oct 30 j 04:04	12°♄59'51	0°19'51
morning rise	1051 Nov 21 j 02:17	22°♄59'24		minimum elong	1052 Oct 30 j 03:35	13°♄01'29	0°19'39
direct	1051 Nov 25 j 15:31	21°♄07'34		morning rise	1052 Nov 04 j 12:40	6°♄53'39	
morning max el	1051 Dec 04 j 21:10	26°♄34'08	22°03'00	direct	1052 Nov 08 j 12:10	5°♄23'59	
	1051 Dec 08 j 00:34	0°♄		morning max el	1052 Nov 16 j 15:44	10°♄07'11	20°44'02
desc. node	1051 Dec 21 j 06:19	17°♄41'40			1052 Dec 01 j 19:53	0°♄	
	1051 Dec 29 j 12:34	0°♄		desc. node	1052 Dec 07 j 03:19	7°♄53'06	
morning set	1052 Jan 06 j 17:37	12°♄52'48		morning set	1052 Dec 15 j 20:28	21°♄13'19	
max. Earth dist.	1052 Jan 12 j 12:43	22°♄23'31	1.41172 AU		1052 Dec 21 j 10:15	0°♄	
	1052 Jan 17 j 00:01	0°♄		max. Earth dist.	1052 Dec 24 j 18:03	5°♄20'35	1.43028 AU
superior conj	1052 Jan 20 j 06:58	5°♄45'29	-2°02'41	superior conj	1052 Dec 31 j 10:26	16°♄21'52	-2°00'16
minimum elong	1052 Jan 20 j 08:19	5°♄51'31	2°02'40	minimum elong	1052 Dec 31 j 07:11	16°♄08'10	2°00'08
					1053 Jan 08 j 09:04	0°♄	

evening rise	1053 Jan 12 j 10:22	7°  09'03		superior conj	1053 Dec 11 j 11:17	25°  45'45	-1°40'03
asc. node	1053 Jan 25 j 04:19	28°  36'25		minimum elong	1053 Dec 11 j 03:22	25°  13'55	1°39'23
	1053 Jan 26 j 04:22	0°  ✕			1053 Dec 14 j 02:16	0°  ✕	
evening max el	1053 Jan 29 j 12:36	3°  57'09	18°07'37	evening rise	1053 Dec 25 j 07:39	18°  35'22	
retrograde	1053 Feb 05 j 01:49	7°  21'14			1054 Jan 01 j 02:23	0°  ✕	
evening set	1053 Feb 07 j 20:04	6°  44'34		asc. node	1054 Jan 12 j 01:21	16°  ✕12'06	
inferior conj	1053 Feb 14 j 06:15	1°  39'20	3°44'20	evening max el	1054 Jan 13 j 01:08	17°  ✕15'36	18°19'28
minimum elong	1053 Feb 14 j 07:07	1°  37'09	3°44'17	retrograde	1054 Jan 19 j 12:49	20°  ✕46'18	
	1053 Feb 15 j 21:29	30°  ✕		evening set	1054 Jan 22 j 11:54	19°  ✕59'09	
min. Earth dist.	1053 Feb 17 j 05:43	28°  ✕40'29	0.61877 AU	inferior conj	1054 Jan 28 j 11:59	14°  ✕34'22	3°44'30
morning rise	1053 Feb 20 j 16:51	25°  ✕43'59		minimum elong	1054 Jan 28 j 11:01	14°  ✕37'07	3°44'26
direct	1053 Feb 27 j 14:56	23°  ✕15'41		min. Earth dist.	1054 Jan 30 j 20:50	11°  ✕54'32	0.63778 AU
desc. node	1053 Mar 05 j 02:31	24°  ✕38'04		morning rise	1054 Feb 03 j 09:26	8°  ✕29'52	
	1053 Mar 12 j 12:39	0°  ✕		direct	1054 Feb 10 j 07:48	5°  ✕42'31	
morning max el	1053 Mar 13 j 17:10	1°  ✕08'41	27°48'01	desc. node	1054 Feb 19 j 23:34	9°  ✕55'24	
	1053 Apr 03 j 18:24	0°  ✕		morning max el	1054 Feb 24 j 01:22	13°  ✕35'11	27°36'43
morning set	1053 Apr 15 j 23:17	22°  ✕47'23			1054 Mar 09 j 07:20	0°  ✕	
	1053 Apr 19 j 10:22	0°  ✕			1054 Mar 27 j 07:20	0°  ✕	
max. Earth dist.	1053 Apr 21 j 18:51	5°  ✕02'40	1.32524 AU	morning set	1054 Mar 30 j 20:06	6°  ✕51'08	
				max. Earth dist.	1054 Apr 04 j 22:42	17°  ✕17'46	1.33196 AU
superior conj	1053 Apr 23 j 09:05	8°  ✕30'09	0°02'26				
minimum elong	1053 Apr 23 j 08:58	8°  ✕29'32	0°02'25	superior conj	1054 Apr 07 j 16:04	23°  ✕04'19	-0°24'40
behind sun begin	1053 Apr 23 j 03:54	8°  ✕01'54		minimum elong	1054 Apr 07 j 17:16	23°  ✕10'45	0°24'24
behind sun end	1053 Apr 23 j 14:03	8°  ✕57'12		asc. node	1054 Apr 10 j 00:40	28°  ✕08'21	
asc. node	1053 Apr 23 j 03:36	8°  ✕00'18			1054 Apr 10 j 21:23	0°  ✕	
evening rise	1053 Apr 30 j 07:27	23°  ✕31'28		evening rise	1054 Apr 14 j 19:08	8°  ✕20'57	
	1053 May 03 j 10:19	0°  ✕			1054 Apr 26 j 04:45	0°  ✕	
	1053 May 21 j 23:49	0°  ✕		evening max el	1054 May 07 j 03:50	14°  ✕18'26	22°53'02
evening max el	1053 May 25 j 13:26	3°  ✕47'25	24°28'38	desc. node	1054 May 18 j 22:48	20°  ✕15'02'27	
desc. node	1053 Jun 01 j 01:46	8°  ✕44'57		retrograde	1054 May 20 j 11:20	20°  ✕15'44	
retrograde	1053 Jun 08 j 11:03	10°  ✕48'46		evening set	1054 May 23 j 19:45	20°  ✕13'05	
evening set	1053 Jun 13 j 06:29	9°  ✕56'54		min. Earth dist.	1054 May 31 j 12:37	17°  ✕06'50	0.55479 AU
min. Earth dist.	1053 Jun 19 j 00:33	7°  ✕02'10	0.56844 AU	inferior conj	1054 Jun 02 j 00:55	16°  ✕14'31	-3°40'54
inferior conj	1053 Jun 21 j 18:35	5°  ✕16'51	-4°38'47	minimum elong	1054 Jun 01 j 17:23	16°  ✕25'25	3°39'02
minimum elong	1053 Jun 21 j 14:27	5°  ✕23'30	4°38'19	morning rise	1054 Jun 10 j 17:28	12°  ✕12'43	
morning rise	1053 Jun 30 j 01:09	1°  ✕12'46		direct	1054 Jun 13 j 13:01	12°  ✕03'09	
direct	1053 Jul 02 j 16:21	0°  ✕53'48		morning max el	1054 Jun 24 j 13:17	17°  ✕09'17	20°43'12
morning max el	1053 Jul 12 j 01:52	5°  ✕15'52	19°29'15		1054 Jul 04 j 09:18	0°  ✕	
asc. node	1053 Jul 20 j 02:48	15°  ✕40'09		asc. node	1054 Jul 06 j 23:52	4°  ✕31'47	
	1053 Jul 27 j 22:38	0°  ✕		morning set	1054 Jul 13 j 16:50	17°  ✕37'31	
morning set	1053 Jul 29 j 10:22	2°  ✕57'51			1054 Jul 19 j 16:15	0°  ✕	
superior conj	1053 Aug 06 j 11:33	19°  ✕03'55	1°46'13	superior conj	1054 Jul 21 j 05:40	3°  ✕12'08	1°44'10
minimum elong	1053 Aug 06 j 11:59	19°  ✕06'03	1°46'14	minimum elong	1054 Jul 21 j 04:33	3°  ✕06'28	1°44'08
	1053 Aug 12 j 04:46	0°  ✕		max. Earth dist.	1054 Jul 25 j 22:32	12°  ✕37'05	1.35920 AU
max. Earth dist.	1053 Aug 12 j 15:00	0°  ✕47'24	1.37759 AU	evening rise	1054 Jul 30 j 00:31	20°  ✕12'45'55	
evening rise	1053 Aug 16 j 09:33	7°  ✕37'23			1054 Aug 04 j 08:11	0°  ✕	
desc. node	1053 Aug 28 j 01:05	26°  ✕58'44		desc. node	1054 Aug 14 j 22:07	17°  ✕12'14	
	1053 Aug 30 j 00:12	0°  ✕			1054 Aug 23 j 23:03	0°  ✕	
evening max el	1053 Sep 21 j 04:18	28°  ✕46'23	25°11'17	evening max el	1054 Sep 03 j 16:03	12°  ✕24'08	26°16'55
	1053 Sep 22 j 11:16	0°  ✕		retrograde	1054 Sep 16 j 08:42	19°  ✕34'36	
retrograde	1053 Oct 03 j 01:33	5°  ✕38'39		evening set	1054 Sep 22 j 18:00	16°  ✕55'28	
evening set	1053 Oct 08 j 20:52	3°  ✕12'10		min. Earth dist.	1054 Sep 26 j 21:51	12°  ✕30'53	0.66401 AU
	1053 Oct 11 j 21:53	30°  ✕		inferior conj	1054 Sep 28 j 09:54	10°  ✕40'03	-1°32'32
min. Earth dist.	1053 Oct 13 j 08:21	28°  ✕11'14	0.67190 AU	minimum elong	1054 Sep 28 j 12:18	10°  ✕32'38	1°31'33
inferior conj	1053 Oct 14 j 08:56	26°  ✕50'59	-0°35'25	asc. node	1054 Oct 02 j 23:04	5°  ✕46'42	
minimum elong	1053 Oct 14 j 09:50	26°  ✕48'04	0°35'02	morning rise	1054 Oct 04 j 07:03	4°  ✕51'07	
asc. node	1053 Oct 16 j 02:01	24°  ✕40'00		direct	1054 Oct 07 j 08:38	3°  ✕57'36	
morning rise	1053 Oct 19 j 22:57	20°  ✕52'02		morning max el	1054 Oct 14 j 03:36	7°  ✕43'40	18°46'30
direct	1053 Oct 23 j 10:26	19°  ✕42'11			1054 Oct 29 j 21:31	0°  ✕	
morning max el	1053 Oct 30 j 18:13	23°  ✕51'35	19°37'42	morning set	1054 Nov 04 j 09:26	8°  ✕41'31	
	1053 Nov 04 j 22:31	0°  ✕		desc. node	1054 Nov 10 j 21:24	18°  ✕57'10	
greatest brilliancy	1053 Nov 13 j 05:30	11°  ✕51'24	-0.7m		1054 Nov 17 j 22:04	0°  ✕	
desc. node	1053 Nov 24 j 00:21	28°  ✕19'57		max. Earth dist.	1054 Nov 20 j 00:01	3°  ✕16'12	1.45033 AU
morning set	1053 Nov 24 j 17:46	29°  ✕27'16					
	1053 Nov 25 j 02:13	0°  ✕		superior conj	1054 Nov 20 j 15:53	4°  ✕18'34	-1°01'49
max. Earth dist.	1053 Dec 07 j 06:48	19°  ✕04'36	1.44369 AU	minimum elong	1054 Nov 20 j 08:22	3°  ✕49'00	1°00'55

evening rise	1054 Dec 06 j 05:59	29° ♁ 03'51		superior conj	1055 Oct 30 j 18:57	12° ♁ 53'37	-0°13'26
	1054 Dec 06 j 19:58	0° ♁		minimum elong	1055 Oct 30 j 17:14	12° ♁ 46'47	0°13'11
	1054 Dec 26 j 20:38	0° ♁		behind sun begin	1055 Oct 30 j 10:46	12° ♁ 21'09	
evening max el	1054 Dec 27 j 12:08	0° ♁ 41'00	18°49'28	behind sun end	1055 Oct 30 j 23:42	13° ♁ 12'25	
asc. node	1054 Dec 29 j 22:23	2° ♁ 49'44		max. Earth dist.	1055 Nov 02 j 18:43	17° ♁ 37'07	1.44965 AU
retrograde	1055 Jan 03 j 06:22	4° ♁ 29'13			1055 Nov 10 j 16:30	0° ♁	
evening set	1055 Jan 06 j 11:10	3° ♁ 30'31		evening rise	1055 Nov 16 j 05:31	8° ♁ 37'40	
	1055 Jan 10 j 08:11	30° ♁		greatest brilliancy	1055 Nov 28 j 14:37	27° ♁ 43'04	-0.7m
inferior conj	1055 Jan 12 j 04:09	27° ♁ 48'27	3°28'31		1055 Nov 30 j 03:07	0° ♁	
minimum elong	1055 Jan 12 j 01:59	27° ♁ 55'06	3°28'10	evening max el	1055 Dec 10 j 19:30	14° ♁ 09'23	19°36'10
min. Earth dist.	1055 Jan 13 j 21:38	25° ♁ 40'54	0.65331 AU	asc. node	1055 Dec 16 j 19:24	18° ♁ 14'13	
morning rise	1055 Jan 17 j 16:25	21° ♁ 38'42		retrograde	1055 Dec 18 j 03:14	18° ♁ 24'00	
direct	1055 Jan 24 j 07:42	18° ♁ 46'46		evening set	1055 Dec 21 j 15:15	17° ♁ 12'17	
morning max el	1055 Feb 06 j 11:15	26° ♁ 29'11	26°52'47	inferior conj	1055 Dec 27 j 03:31	11° ♁ 15'28	3°00'35
desc. node	1055 Feb 06 j 20:37	26° ♁ 52'54		minimum elong	1055 Dec 27 j 00:51	11° ♁ 24'14	2°59'56
	1055 Feb 09 j 17:56	0° ♁		min. Earth dist.	1055 Dec 28 j 06:36	9° ♁ 46'43	0.66497 AU
	1055 Mar 02 j 21:15	0° ♁		morning rise	1056 Jan 01 j 10:12	5° ♁ 03'01	
morning set	1055 Mar 14 j 06:43	20° ♁ 20'43		direct	1056 Jan 07 j 13:37	2° ♁ 19'15	
max. Earth dist.	1055 Mar 18 j 16:25	28° ♁ 59'41	1.34308 AU	morning max el	1056 Jan 19 j 20:22	9° ♁ 37'12	25°44'07
	1055 Mar 19 j 04:23	0° ♁		desc. node	1056 Jan 24 j 17:39	15° ♁ 01'12	
					1056 Feb 04 j 23:20	0° ♁	
superior conj	1055 Mar 22 j 17:43	7° ♁ 18'10	-0°52'05		1056 Feb 23 j 10:35	0° ♁	
minimum elong	1055 Mar 22 j 20:17	7° ♁ 31'32	0°51'35	morning set	1056 Feb 25 j 02:37	3° ♁ 01'44	
asc. node	1055 Mar 27 j 21:43	18° ♁ 10'09		max. Earth dist.	1056 Feb 28 j 22:00	10° ♁ 09'08	1.35879 AU
evening rise	1055 Mar 30 j 05:04	23° ♁ 00'14					
	1055 Apr 02 j 15:24	0° ♁		superior conj	1056 Mar 05 j 11:22	21° ♁ 03'04	-1°18'20
evening max el	1055 Apr 19 j 00:39	25° ♁ 02'58	21°21'43	minimum elong	1056 Mar 05 j 15:04	21° ♁ 21'36	1°17'45
	1055 Apr 26 j 06:46	0° ♁			1056 Mar 09 j 20:55	0° ♁	
retrograde	1055 May 01 j 02:07	0° ♁ 55'49		evening rise	1056 Mar 13 j 11:08	7° ♁ 21'47	
evening set	1055 May 03 j 10:23	0° ♁ 43'13		asc. node	1056 Mar 13 j 18:45	8° ♁ 00'29	
desc. node	1055 May 05 j 19:50	0° ♁ 06'11			1056 Mar 26 j 01:05	0° ♁	
	1055 May 06 j 03:03	30° ♁		evening max el	1056 Mar 31 j 08:25	6° ♁ 21'06	20°04'33
inferior conj	1055 May 12 j 19:52	26° ♁ 43'14	-1°59'42	retrograde	1056 Apr 10 j 16:47	11° ♁ 20'08	
minimum elong	1055 May 12 j 14:21	26° ♁ 50'59	1°57'48	evening set	1056 Apr 12 j 18:11	11° ♁ 09'10	
min. Earth dist.	1055 May 13 j 01:15	26° ♁ 35'39	0.54943 AU	inferior conj	1056 Apr 21 j 17:02	7° ♁ 10'01	-0°00'07
morning rise	1055 May 21 j 18:45	22° ♁ 43'55		minimum elong	1056 Apr 21 j 17:01	7° ♁ 10'02	0°00'07
direct	1055 May 24 j 23:26	22° ♁ 21'43		transit middle	1056 Apr 21 j 17:01	7° ♁ 10'02	0°00'07
morning max el	1055 Jun 06 j 13:51	28° ♁ 20'24	22°14'37	transit begin	1056 Apr 21 j 13:01	7° ♁ 16'02	
	1055 Jun 08 j 06:09	0° ♁		transit end	1056 Apr 21 j 21:01	7° ♁ 04'01	
asc. node	1055 Jun 23 j 20:57	23° ♁ 52'30		desc. node	1056 Apr 21 j 16:52	7° ♁ 10'15	
	1055 Jun 26 j 22:07	0° ♁		min. Earth dist.	1056 Apr 23 j 14:57	6° ♁ 01'14	0.55372 AU
morning set	1055 Jun 28 j 02:48	2° ♁ 28'36		morning rise	1056 Apr 30 j 13:54	2° ♁ 46'05	
				direct	1056 May 04 j 13:15	2° ♁ 11'29	
superior conj	1055 Jul 05 j 07:50	17° ♁ 44'59	1°35'32	morning max el	1056 May 18 j 06:26	8° ♁ 57'55	23°55'40
minimum elong	1055 Jul 05 j 05:46	17° ♁ 34'06	1°35'21		1056 Jun 02 j 16:04	0° ♁	
max. Earth dist.	1055 Jul 08 j 14:32	24° ♁ 35'08	1.34426 AU	asc. node	1056 Jun 09 j 18:00	13° ♁ 34'01	
	1055 Jul 11 j 06:41	0° ♁		morning set	1056 Jun 11 j 14:27	17° ♁ 25'15	
evening rise	1055 Jul 13 j 07:16	3° ♁ 59'19			1056 Jun 17 j 10:55	0° ♁	
	1055 Jul 28 j 03:11	0° ♁					
desc. node	1055 Aug 01 j 19:09	7° ♁ 02'21		superior conj	1056 Jun 18 j 15:15	2° ♁ 33'17	1°21'38
evening max el	1055 Aug 17 j 04:06	25° ♁ 54'59	27°03'54	minimum elong	1056 Jun 18 j 12:49	2° ♁ 20'08	1°21'18
	1055 Aug 22 j 01:09	0° ♁		max. Earth dist.	1056 Jun 20 j 15:58	6° ♁ 54'49	1.33326 AU
retrograde	1055 Aug 30 j 10:30	3° ♁ 13'16		evening rise	1056 Jun 26 j 01:29	18° ♁ 07'50	
evening set	1055 Sep 06 j 07:28	0° ♁ 28'35			1056 Jul 02 j 05:18	0° ♁	
	1055 Sep 06 j 21:11	30° ♁		desc. node	1056 Jul 18 j 16:11	26° ♁ 19'15	
min. Earth dist.	1055 Sep 10 j 04:27	26° ♁ 40'32	0.65259 AU		1056 Jul 21 j 11:23	0° ♁	
inferior conj	1055 Sep 12 j 04:49	24° ♁ 23'06	-2°29'35	evening max el	1056 Jul 29 j 15:17	9° ♁ 07'58	27°25'11
minimum elong	1055 Sep 12 j 08:41	24° ♁ 12'06	2°28'10	retrograde	1056 Aug 12 j 06:16	16° ♁ 26'28	
morning rise	1055 Sep 18 j 10:39	18° ♁ 47'10		evening set	1056 Aug 19 j 10:22	13° ♁ 46'31	
asc. node	1055 Sep 19 j 20:07	18° ♁ 16'12		min. Earth dist.	1056 Aug 23 j 02:03	10° ♁ 32'21	0.63762 AU
direct	1055 Sep 21 j 04:45	18° ♁ 06'08		inferior conj	1056 Aug 25 j 15:14	7° ♁ 55'02	-3°23'46
morning max el	1055 Sep 27 j 17:35	21° ♁ 38'04	18°11'41	minimum elong	1056 Aug 25 j 20:08	7° ♁ 42'23	3°22'17
	1055 Oct 04 j 05:30	0° ♁		morning rise	1056 Sep 01 j 06:58	2° ♁ 35'24	
morning set	1055 Oct 16 j 05:51	19° ♁ 21'35		direct	1056 Sep 03 j 20:12	2° ♁ 03'19	
	1055 Oct 22 j 17:55	0° ♁		asc. node	1056 Sep 05 j 17:10	2° ♁ 20'55	
desc. node	1055 Oct 28 j 18:26	9° ♁ 40'49		morning max el	1056 Sep 10 j 09:31	5° ♁ 29'10	17°54'13
					1056 Sep 26 j 10:32	0° ♁	

morning set	1056 Sep 27 j 04:48	1°♄18'55		1057 Sep 18 j 19:39	0°♄		
superior conj	1056 Oct 09 j 16:42	22°♄26'21	0°32'50	superior conj	1057 Sep 20 j 17:33	3°♄19'07	1°08'39
minimum elong	1056 Oct 09 j 20:06	22°♄40'19	0°32'22	minimum elong	1057 Sep 20 j 22:19	3°♄39'37	1°08'05
	1056 Oct 14 j 08:31	0°♄		max. Earth dist.	1057 Sep 28 j 01:57	15°♄40'10	1.42779 AU
desc. node	1056 Oct 14 j 15:27	0°♄27'52		desc. node	1057 Oct 01 j 12:29	21°♄14'35	
max. Earth dist.	1056 Oct 15 j 12:15	1°♄51'04	1.44180 AU	evening rise	1057 Oct 05 j 01:32	26°♄51'57	
evening rise	1056 Oct 25 j 14:38	17°♄40'21			1057 Oct 07 j 01:43	0°♄	
	1056 Nov 02 j 16:54	0°♄			1057 Oct 27 j 13:35	0°♄	
evening max el	1056 Nov 22 j 21:45	27°♄39'17	20°37'17	evening max el	1057 Nov 05 j 18:14	11°♄09'13	21°49'38
	1056 Nov 25 j 10:48	0°♄		retrograde	1057 Nov 14 j 21:41	16°♄35'37	
retrograde	1056 Dec 01 j 00:58	2°♄27'29		evening set	1057 Nov 19 j 05:46	14°♄52'41	
asc. node	1056 Dec 02 j 16:26	2°♄12'15		asc. node	1057 Nov 19 j 13:28	14°♄36'44	
evening set	1056 Dec 04 j 22:04	1°♄00'57		inferior conj	1057 Nov 24 j 14:11	8°♄35'22	1°39'42
	1056 Dec 06 j 02:33	30°♄♄		minimum elong	1057 Nov 24 j 12:06	8°♄42'32	1°38'55
inferior conj	1056 Dec 10 j 07:35	24°♄52'16	2°23'40	min. Earth dist.	1057 Nov 24 j 16:51	8°♄26'05	0.67677 AU
minimum elong	1056 Dec 10 j 04:58	25°♄01'09	2°22'49	morning rise	1057 Nov 29 j 18:18	2°♄23'13	
min. Earth dist.	1056 Dec 10 j 21:47	24°♄03'51	0.67272 AU	direct	1057 Dec 04 j 16:01	0°♄18'27	
morning rise	1056 Dec 15 j 11:42	18°♄39'04		morning max el	1057 Dec 14 j 14:24	6°♄11'48	22°52'27
direct	1056 Dec 21 j 00:38	16°♄12'26		desc. node	1057 Dec 28 j 11:42	23°♄34'33	
morning max el	1057 Jan 01 j 04:39	22°♄52'00	24°20'40		1058 Jan 01 j 23:01	0°♄	
	1057 Jan 07 j 11:31	0°♄		morning set	1058 Jan 17 j 23:18	24°♄56'38	
desc. node	1057 Jan 10 j 14:41	4°♄00'07			1058 Jan 20 j 23:48	0°♄	
	1057 Jan 28 j 07:51	0°♄		max. Earth dist.	1058 Jan 22 j 14:34	2°♄45'14	1.39972 AU
morning set	1057 Feb 06 j 02:13	14°♄39'01					
max. Earth dist.	1057 Feb 09 j 18:54	21°♄12'22	1.37837 AU	superior conj	1058 Jan 30 j 08:28	16°♄28'56	-1°57'42
	1057 Feb 14 j 13:10	0°♄		minimum elong	1058 Jan 30 j 11:27	16°♄42'36	1°57'33
					1058 Feb 06 j 13:51	0°♄	
superior conj	1057 Feb 16 j 17:45	4°♄10'33	-1°41'13	evening rise	1058 Feb 09 j 01:46	4°♄45'29	
minimum elong	1057 Feb 16 j 21:50	4°♄30'10	1°40'48	asc. node	1058 Feb 15 j 12:48	16°♄46'34	
evening rise	1057 Feb 25 j 11:01	21°♄19'27			1058 Feb 24 j 12:08	0°♄	
asc. node	1057 Feb 28 j 15:46	27°♄34'37		evening max el	1058 Feb 25 j 07:06	0°♄48'15	18°27'43
	1057 Mar 01 j 22:18	0°♄		retrograde	1058 Mar 04 j 19:12	4°♄29'54	
evening max el	1057 Mar 14 j 03:19	18°♄17'50	19°06'04	evening set	1058 Mar 07 j 05:18	4°♄08'00	
retrograde	1057 Mar 22 j 20:27	22°♄30'30			1058 Mar 14 j 02:33	30°♄♄	
evening set	1057 Mar 25 j 01:05	22°♄15'38		inferior conj	1058 Mar 14 j 14:41	29°♄35'39	2°56'07
inferior conj	1057 Apr 02 j 05:21	18°♄02'57	1°44'25	minimum elong	1058 Mar 14 j 18:35	29°♄27'48	2°55'16
minimum elong	1057 Apr 02 j 09:03	17°♄56'34	1°43'16	min. Earth dist.	1058 Mar 18 j 01:06	26°♄51'02	0.58547 AU
min. Earth dist.	1057 Apr 05 j 06:13	15°♄58'28	0.56669 AU	morning rise	1058 Mar 22 j 05:08	24°♄08'11	
desc. node	1057 Apr 08 j 13:53	13°♄59'57		desc. node	1058 Mar 26 j 10:54	22°♄41'58	
morning rise	1057 Apr 10 j 14:04	13°♄05'34		direct	1058 Mar 28 j 06:14	22°♄33'28	
direct	1057 Apr 15 j 14:58	12°♄06'11			1058 Apr 11 j 09:27	0°♄	
morning max el	1057 Apr 29 j 20:54	19°♄26'01	25°33'08	morning max el	1058 Apr 11 j 15:05	0°♄13'40	26°51'23
	1057 May 08 j 19:17	0°♄			1058 May 02 j 16:56	0°♄	
	1057 May 25 j 23:01	0°♄		morning set	1058 May 11 j 12:21	17°♄13'34	
morning set	1057 May 27 j 02:11	2°♄22'05		asc. node	1058 May 14 j 12:05	23°♄35'40	
asc. node	1057 May 27 j 15:03	3°♄30'06			1058 May 17 j 10:32	0°♄	
superior conj	1057 Jun 03 j 01:45	17°♄29'47	1°03'27	superior conj	1058 May 18 j 13:31	2°♄28'22	0°41'48
minimum elong	1057 Jun 02 j 23:27	17°♄17'12	1°03'02	minimum elong	1058 May 18 j 11:48	2°♄18'53	0°41'27
max. Earth dist.	1057 Jun 04 j 00:36	19°♄34'36	1.32615 AU	max. Earth dist.	1058 May 18 j 12:50	2°♄24'38	1.32277 AU
	1057 Jun 08 j 21:03	0°♄		evening rise	1058 May 25 j 11:19	17°♄26'23	
evening rise	1057 Jun 10 j 03:44	2°♄39'47			1058 May 31 j 17:39	0°♄	
	1057 Jun 25 j 01:31	0°♄			1058 Jun 20 j 09:38	0°♄	
desc. node	1057 Jul 05 j 13:12	14°♄48'42		desc. node	1058 Jun 22 j 10:12	2°♄11'09	
evening max el	1057 Jul 11 j 23:05	21°♄48'59	27°15'15	evening max el	1058 Jun 24 j 00:49	3°♄46'56	26°32'12
retrograde	1057 Jul 25 j 19:10	29°♄04'47		retrograde	1058 Jul 08 j 00:23	11°♄00'24	
evening set	1057 Aug 01 j 22:48	26°♄42'13		evening set	1058 Jul 14 j 16:16	9°♄08'13	
min. Earth dist.	1057 Aug 05 j 13:07	23°♄54'05	0.61947 AU	min. Earth dist.	1058 Jul 18 j 14:05	6°♄31'35	0.59917 AU
inferior conj	1057 Aug 08 j 14:01	21°♄07'54	-4°10'43	inferior conj	1058 Jul 21 j 21:45	3°♄53'04	-4°43'25
minimum elong	1057 Aug 08 j 18:56	20°♄56'39	4°09'41	minimum elong	1058 Jul 22 j 00:48	3°♄46'58	4°43'07
morning rise	1057 Aug 15 j 16:32	16°♄08'06			1058 Jul 27 j 14:17	30°♄♄	
direct	1057 Aug 18 j 03:31	15°♄42'02		morning rise	1058 Jul 29 j 11:21	29°♄15'45	
asc. node	1057 Aug 23 j 14:14	17°♄53'54		direct	1058 Jul 31 j 22:26	28°♄53'38	
morning max el	1057 Aug 25 j 00:28	19°♄09'56	17°55'02		1058 Aug 05 j 01:55	0°♄	
	1057 Sep 01 j 22:26	0°♄		morning max el	1058 Aug 08 j 11:27	2°♄33'05	18°15'16
morning set	1057 Sep 10 j 00:02	14°♄14'11		asc. node	1058 Aug 10 j 11:17	4°♄41'19	

morning set	1058 Aug 24 j 10:00	27°Ω52'09		morning set	1059 Aug 08 j 06:21	12°Ω00'33	
	1058 Aug 25 j 12:59	0°൬					
superior conj	1058 Sep 02 j 19:37	15°൬26'50	1°31'54	superior conj	1059 Aug 16 j 17:16	28°Ω32'51	1°43'46
minimum elong	1058 Sep 02 j 23:10	15°൬42'59	1°31'36	minimum elong	1059 Aug 16 j 18:49	28°Ω40'14	1°43'42
max. Earth dist.	1058 Sep 10 j 09:52	28°൬48'50	1.40944 AU		1059 Aug 17 j 11:33	0°൬	
	1058 Sep 11 j 02:38	0°Ω		max. Earth dist.	1059 Aug 23 j 13:23	11°൬13'05	1.38914 AU
evening rise	1058 Sep 15 j 06:01	6°Ω53'18		evening rise	1059 Aug 27 j 10:48	18°൬02'56	
desc. node	1058 Sep 18 j 09:30	11°Ω57'55			1059 Sep 03 j 15:47	0°Ω	
	1058 Sep 30 j 05:38	0°൬		desc. node	1059 Sep 05 j 06:33	2°Ω33'44	
evening max el	1058 Oct 19 j 09:42	24°൬40'41	23°08'35		1059 Sep 24 j 14:18	0°൬	
	1058 Oct 26 j 09:27	0°♂		evening max el	1059 Oct 01 j 22:14	8°൬16'06	24°28'09
retrograde	1058 Oct 29 j 15:54	0°♂45'43		retrograde	1059 Oct 13 j 06:30	14°൬54'11	
	1058 Nov 01 j 16:41	30°൬൬		evening set	1059 Oct 18 j 17:19	12°൬36'54	
evening set	1058 Nov 03 j 12:44	28°൬45'24		min. Earth dist.	1059 Oct 23 j 09:25	7°൬15'33	0.67481 AU
asc. node	1058 Nov 06 j 10:30	25°൬40'16		inferior conj	1059 Oct 24 j 03:47	6°൬13'59	-0°03'15
inferior conj	1058 Nov 08 j 21:30	22°൬23'14	0°50'17	minimum elong	1059 Oct 24 j 03:52	6°൬13'44	0°03'14
minimum elong	1058 Nov 08 j 20:20	22°൬27'12	0°49'48	transit middle	1059 Oct 24 j 03:52	6°൬13'44	0°03'14
min. Earth dist.	1058 Nov 08 j 13:32	22°൬50'37	0.67742 AU	transit begin	1059 Oct 24 j 01:11	6°൬22'44	
morning rise	1058 Nov 14 j 03:52	16°൬14'08		transit end	1059 Oct 24 j 06:33	6°൬04'44	
direct	1058 Nov 18 j 10:58	14°൬32'10		asc. node	1059 Oct 24 j 07:34	6°൬01'22	
morning max el	1058 Nov 27 j 05:03	19°൬39'32	21°28'08	morning rise	1059 Oct 29 j 14:28	0°൬10'22	
	1058 Dec 05 j 18:53	0°♂			1059 Oct 29 j 20:25	30°൬Ω	
desc. node	1058 Dec 15 j 08:44	13°♂34'38		direct	1059 Nov 02 j 08:31	28°Ω49'37	
	1058 Dec 26 j 04:18	0°Ω			1059 Nov 06 j 02:26	0°൬	
morning set	1058 Dec 28 j 15:24	3°Ω52'13		morning max el	1059 Nov 10 j 03:00	3°൬17'40	20°14'02
max. Earth dist.	1059 Jan 04 j 15:09	15°Ω09'14	1.42005 AU		1059 Nov 29 j 16:16	0°♂	
				desc. node	1059 Dec 02 j 05:46	3°♂53'19	
superior conj	1059 Jan 12 j 02:15	27°Ω45'32	-2°03'36	morning set	1059 Dec 07 j 12:41	12°♂00'29	
minimum elong	1059 Jan 12 j 01:53	27°Ω43'58	2°03'35	max. Earth dist.	1059 Dec 17 j 23:16	28°♂26'01	1.43664 AU
	1059 Jan 13 j 09:11	0°≈			1059 Dec 18 j 22:40	0°Ω	
evening rise	1059 Jan 23 j 03:44	17°≈31'25		superior conj	1059 Dec 23 j 18:25	7°Ω50'49	-1°54'02
	1059 Jan 30 j 02:31	0°♂		minimum elong	1059 Dec 23 j 12:54	7°Ω28'09	1°53'43
asc. node	1059 Feb 02 j 09:50	5°♂28'54		evening rise	1060 Jan 05 j 12:44	29°Ω28'48	
evening max el	1059 Feb 08 j 16:41	13°♂43'54	18°09'23		1060 Jan 05 j 19:55	0°≈	
retrograde	1059 Feb 15 j 11:19	17°♂10'24		asc. node	1060 Jan 20 j 06:53	23°≈32'27	
evening set	1059 Feb 18 j 02:38	16°♂39'35		evening max el	1060 Jan 23 j 05:02	26°≈56'36	18°10'28
inferior conj	1059 Feb 24 j 20:14	11°♂46'25	3°34'38		1060 Jan 27 j 14:55	0°♂	
minimum elong	1059 Feb 24 j 22:20	11°♂41'31	3°34'24	retrograde	1060 Jan 29 j 16:35	0°♂21'59	
min. Earth dist.	1059 Feb 28 j 02:19	8°♂45'21	0.60666 AU		1060 Jan 31 j 18:23	30°൬≈	
morning rise	1059 Mar 03 j 16:08	5°♂58'32		evening set	1060 Feb 01 j 12:48	29°≈41'04	
direct	1059 Mar 10 j 09:30	3°♂47'11		inferior conj	1060 Feb 07 j 18:19	24°≈27'39	3°46'42
desc. node	1059 Mar 13 j 07:56	4°♂10'43		minimum elong	1060 Feb 07 j 18:20	24°≈27'37	3°46'42
morning max el	1059 Mar 24 j 15:27	11°♂38'27	27°37'58	min. Earth dist.	1060 Feb 10 j 12:01	21°≈34'24	0.62716 AU
	1059 Apr 08 j 01:32	0°൬		morning rise	1060 Feb 13 j 22:48	18°≈27'49	
	1059 Apr 24 j 21:12	0°♂		direct	1060 Feb 20 j 22:13	15°≈49'14	
morning set	1059 Apr 25 j 19:06	1°♂52'24		desc. node	1060 Feb 28 j 04:57	18°≈14'33	
asc. node	1059 May 01 j 09:08	13°♂45'26		morning max el	1060 Mar 05 j 21:16	23°≈43'44	27°47'34
max. Earth dist.	1059 May 02 j 00:46	15°♂10'40	1.32317 AU		1060 Mar 11 j 12:36	0°♂	
					1060 Mar 31 j 08:13	0°൬	
superior conj	1059 May 03 j 00:48	17°♂22'10	0°17'26	morning set	1060 Apr 08 j 20:18	16°൬11'26	
minimum elong	1059 May 03 j 00:00	17°♂17'51	0°17'15	max. Earth dist.	1060 Apr 14 j 08:32	27°൬40'00	1.32754 AU
	1059 May 08 j 19:51	0°൬			1060 Apr 15 j 10:38	0°♂	
evening rise	1059 May 09 j 21:59	2°൬19'12		superior conj	1060 Apr 16 j 09:54	2°♂05'29	-0°08'56
	1059 May 24 j 21:28	0°♂		minimum elong	1060 Apr 16 j 10:19	2°♂07'48	0°08'50
evening max el	1059 Jun 05 j 19:31	14°♂58'32	25°19'45	behind sun begin	1060 Apr 16 j 05:58	1°♂44'14	
desc. node	1059 Jun 09 j 07:14	17°♂58'06		behind sun end	1060 Apr 16 j 14:41	2°♂31'23	
retrograde	1059 Jun 19 j 20:07	22°♂07'22		asc. node	1060 Apr 17 j 06:11	3°♂55'25	
evening set	1059 Jun 25 j 10:44	20°♂54'05		evening rise	1060 Apr 23 j 09:49	17°♂11'49	
min. Earth dist.	1059 Jun 30 j 07:24	18°♂10'24	0.57886 AU		1060 Apr 29 j 18:08	0°൬	
inferior conj	1059 Jul 03 j 10:54	16°♂00'02	-4°51'05	evening max el	1060 May 17 j 09:55	25°൬37'26	23°48'23
minimum elong	1059 Jul 03 j 09:46	16°♂02'01	4°51'04		1060 May 22 j 23:12	0°♂	
morning rise	1059 Jul 11 j 11:24	11°♂45'01		desc. node	1060 May 26 j 04:15	1°♂34'33	
direct	1059 Jul 14 j 00:31	11°♂25'23		retrograde	1060 May 31 j 03:41	2°♂30'48	
morning max el	1059 Jul 22 j 15:16	15°♂28'20	18°56'05	evening set	1060 Jun 04 j 07:31	1°♂52'40	
asc. node	1059 Jul 28 j 08:21	22°♂27'07			1060 Jun 08 j 17:03	30°൬൬	
	1059 Aug 01 j 22:28	0°Ω					

min. Earth dist.	1060 Jun 10 j 20:40	28° Π 46'36	0.56183 AU	min. Earth dist.	1061 May 23 j 08:41	8° Π 32'23	0.55142 AU
inferior conj	1060 Jun 13 j 03:52	27° Π 22'44	-4°20'10	inferior conj	1061 May 24 j 03:57	8° Π 05'16	-3°02'20
minimum elong	1060 Jun 12 j 21:48	27° Π 32'00	4°19'07	minimum elong	1061 May 23 j 20:32	8° Π 15'42	3°00'09
morning rise	1060 Jun 21 j 14:48	23° Π 24'41		morning rise	1061 Jun 01 j 23:52	4° Π 12'04	
direct	1060 Jun 24 j 07:28	23° Π 06'10		direct	1061 Jun 04 j 22:41	3° Π 52'28	
morning max el	1060 Jul 04 j 09:05	27° Π 46'01	19°58'08	morning max el	1061 Jun 16 j 15:33	9° Π 20'25	21°20'13
	1060 Jul 06 j 13:21	0° \mathfrak{C}		asc. node	1061 Jul 01 j 02:28	0° \mathfrak{C} 03'09	
asc. node	1060 Jul 14 j 05:25	10° \mathfrak{C} 57'56			1061 Jul 01 j 01:48	0° \mathfrak{C}	
morning set	1060 Jul 22 j 09:50	26° \mathfrak{C} 30'45		morning set	1061 Jul 06 j 18:03	11° \mathfrak{C} 16'23	
	1060 Jul 24 j 03:00	0° Ω					
superior conj	1060 Jul 30 j 05:09	12° Ω 21'49	1°46'15	superior conj	1061 Jul 14 j 03:04	26° \mathfrak{C} 41'43	1°41'14
minimum elong	1060 Jul 30 j 04:52	12° Ω 20'23	1°46'15	minimum elong	1061 Jul 14 j 01:29	26° \mathfrak{C} 33'30	1°41'08
max. Earth dist.	1060 Aug 04 j 17:55	23° Ω 08'56	1.36949 AU		1061 Jul 15 j 17:32	0° Ω	
	1060 Aug 08 j 10:34	0° \mathfrak{M}		max. Earth dist.	1061 Jul 18 j 05:06	5° Ω 01'38	1.35244 AU
evening rise	1060 Aug 08 j 14:34	0° \mathfrak{M} 18'11		evening rise	1061 Jul 22 j 12:51	13° Ω 27'35	
desc. node	1060 Aug 22 j 03:36	22° \mathfrak{M} 57'08			1061 Jul 31 j 18:58	0° \mathfrak{M}	
	1060 Aug 26 j 20:41	0° $\underline{\mathfrak{A}}$		desc. node	1061 Aug 09 j 00:37	13° \mathfrak{M} 02'01	
evening max el	1060 Sep 13 j 10:06	21° $\underline{\mathfrak{A}}$ 54'59	25°41'05		1061 Aug 21 j 17:46	0° $\underline{\mathfrak{A}}$	
retrograde	1060 Sep 25 j 16:26	28° $\underline{\mathfrak{A}}$ 56'11		evening max el	1061 Aug 26 j 22:16	5° $\underline{\mathfrak{A}}$ 32'05	26°39'38
evening set	1060 Oct 01 j 17:43	26° $\underline{\mathfrak{A}}$ 24'00		retrograde	1061 Sep 08 j 21:10	12° $\underline{\mathfrak{A}}$ 46'04	
min. Earth dist.	1060 Oct 06 j 02:00	21° $\underline{\mathfrak{A}}$ 38'06	0.66895 AU	evening set	1061 Sep 15 j 11:53	10° $\underline{\mathfrak{A}}$ 03'45	
inferior conj	1060 Oct 07 j 07:15	20° $\underline{\mathfrak{A}}$ 04'45	-0°59'32	min. Earth dist.	1061 Sep 19 j 12:50	5° $\underline{\mathfrak{A}}$ 54'46	0.65964 AU
minimum elong	1060 Oct 07 j 08:47	19° $\underline{\mathfrak{A}}$ 59'52	0°58'53	inferior conj	1061 Sep 21 j 05:56	3° $\underline{\mathfrak{A}}$ 52'19	-1°56'52
asc. node	1060 Oct 10 j 04:37	16° $\underline{\mathfrak{A}}$ 35'59		minimum elong	1061 Sep 21 j 08:59	3° $\underline{\mathfrak{A}}$ 43'13	1°55'40
morning rise	1060 Oct 13 j 00:05	14° $\underline{\mathfrak{A}}$ 09'24			1061 Sep 24 j 18:45	30° \mathfrak{R} \mathfrak{M}	
direct	1060 Oct 16 j 07:05	13° $\underline{\mathfrak{A}}$ 06'51		morning rise	1061 Sep 27 j 06:36	28° \mathfrak{M} 08'26	
morning max el	1060 Oct 23 j 08:31	17° $\underline{\mathfrak{A}}$ 05'14	19°13'52	asc. node	1061 Sep 27 j 01:39	28° \mathfrak{M} 15'22	
	1060 Nov 02 j 06:01	0° \mathfrak{M}		direct	1061 Sep 30 j 04:49	27° \mathfrak{M} 20'31	
morning set	1060 Nov 15 j 15:19	20° \mathfrak{M} 33'05			1061 Oct 05 j 19:13	0° $\underline{\mathfrak{A}}$	
desc. node	1060 Nov 18 j 02:49	24° \mathfrak{M} 24'53		morning max el	1061 Oct 06 j 20:09	0° $\underline{\mathfrak{A}}$ 59'09	18°29'36
	1060 Nov 21 j 16:41	0° \mathfrak{X}		morning set	1061 Oct 26 j 19:02	0° \mathfrak{M} 24'20	
max. Earth dist.	1060 Nov 29 j 14:10	12° \mathfrak{X} 23'29	1.44741 AU		1061 Oct 26 j 12:59	0° \mathfrak{M}	
				desc. node	1061 Nov 04 j 23:53	15° \mathfrak{M} 05'33	
superior conj	1060 Dec 02 j 09:06	16° \mathfrak{X} 48'16	-1°25'46	superior conj	1061 Nov 11 j 10:15	25° \mathfrak{M} 14'12	-0°41'48
minimum elong	1060 Dec 02 j 00:29	16° \mathfrak{X} 14'06	1°24'54	minimum elong	1061 Nov 11 j 04:50	24° \mathfrak{M} 52'56	0°41'05
	1060 Dec 10 j 14:32	0° \mathfrak{Z}		max. Earth dist.	1061 Nov 12 j 09:00	26° \mathfrak{M} 43'36	1.45105 AU
evening rise	1060 Dec 17 j 00:28	10° \mathfrak{Z} 30'04			1061 Nov 14 j 11:01	0° \mathfrak{X}	
	1060 Dec 28 j 23:40	0° \approx		evening rise	1061 Nov 27 j 12:45	20° \mathfrak{X} 34'25	
evening max el	1061 Jan 05 j 17:15	10° \approx 18'32	18°30'10		1061 Dec 03 j 11:49	0° \mathfrak{Z}	
asc. node	1061 Jan 06 j 03:56	10° \approx 45'01		greatest brilliancy	1061 Dec 07 j 01:01	5° \mathfrak{Z} 34'39	-0.8m
retrograde	1061 Jan 12 j 06:39	13° \approx 55'04		evening max el	1061 Dec 20 j 02:57	23° \mathfrak{Z} 45'24	19°07'20
evening set	1061 Jan 15 j 08:08	13° \approx 03'02		asc. node	1061 Dec 24 j 00:56	26° \mathfrak{Z} 53'17	
inferior conj	1061 Jan 21 j 04:51	7° \approx 30'46	3°39'21	retrograde	1061 Dec 27 j 01:58	27° \mathfrak{Z} 43'34	
minimum elong	1061 Jan 21 j 03:18	7° \approx 35'22	3°39'12	evening set	1061 Dec 30 j 09:43	26° \mathfrak{Z} 39'20	
min. Earth dist.	1061 Jan 23 j 07:09	5° \approx 03'34	0.64489 AU	inferior conj	1062 Jan 05 j 00:24	20° \mathfrak{Z} 50'27	3°17'52
morning rise	1061 Jan 26 j 21:57	1° \approx 23'58		minimum elong	1062 Jan 04 j 21:57	20° \mathfrak{Z} 58'14	3°17'23
	1061 Jan 28 j 20:25	30° \mathfrak{R} \mathfrak{Z}		min. Earth dist.	1062 Jan 06 j 11:29	18° \mathfrak{Z} 59'18	0.65883 AU
direct	1061 Feb 02 j 18:13	28° \mathfrak{Z} 32'51		morning rise	1062 Jan 10 j 09:55	14° \mathfrak{Z} 39'27	
	1061 Feb 08 j 02:34	0° \approx		direct	1062 Jan 16 j 20:34	11° \mathfrak{Z} 49'57	
desc. node	1061 Feb 14 j 01:59	4° \approx 17'51		morning max el	1062 Jan 29 j 15:57	19° \mathfrak{Z} 22'55	26°26'02
morning max el	1061 Feb 16 j 06:14	6° \approx 22'00	27°21'36	desc. node	1062 Jan 31 j 23:03	21° \mathfrak{Z} 48'04	
	1061 Mar 06 j 09:17	0° \mathfrak{H}			1062 Feb 07 j 17:35	0° \approx	
morning set	1061 Mar 23 j 13:10	0° \mathfrak{Y} 01'15			1062 Feb 27 j 10:27	0° \mathfrak{H}	
	1061 Mar 23 j 12:55	0° \mathfrak{Y}		morning set	1062 Mar 06 j 18:04	13° \mathfrak{H} 11'04	
max. Earth dist.	1061 Mar 28 j 08:17	9° \mathfrak{Y} 40'25	1.33613 AU	max. Earth dist.	1062 Mar 10 j 21:03	21° \mathfrak{H} 07'38	1.34925 AU
					1062 Mar 15 j 06:55	0° \mathfrak{Y}	
superior conj	1061 Mar 31 j 14:52	16° \mathfrak{Y} 31'33	-0°36'19	superior conj	1062 Mar 15 j 13:25	0° \mathfrak{Y} 33'23	-1°03'28
minimum elong	1061 Mar 31 j 16:39	16° \mathfrak{Y} 41'02	0°35'56	minimum elong	1062 Mar 15 j 16:31	0° \mathfrak{Y} 49'17	1°02'55
asc. node	1061 Apr 04 j 03:15	24° \mathfrak{Y} 01'08		asc. node	1062 Mar 22 j 00:17	13° \mathfrak{Y} 58'14	
	1061 Apr 06 j 22:40	0° \mathfrak{B}		evening rise	1062 Mar 23 j 05:30	16° \mathfrak{Y} 29'35	
evening rise	1061 Apr 07 j 20:58	1° \mathfrak{B} 57'24			1062 Mar 30 j 02:32	0° \mathfrak{B}	
	1061 Apr 23 j 17:20	0° Π		evening max el	1062 Apr 11 j 03:21	17° \mathfrak{B} 06'56	20°46'44
evening max el	1061 Apr 29 j 02:21	6° Π 10'54	22°13'01	retrograde	1062 Apr 22 j 11:44	22° \mathfrak{B} 37'19	
retrograde	1061 May 11 j 22:39	12° Π 30'41		evening set	1062 Apr 24 j 15:27	22° \mathfrak{B} 26'11	
desc. node	1061 May 13 j 01:15	12° Π 27'55		desc. node	1062 Apr 29 j 22:16	20° \mathfrak{B} 37'37	
evening set	1061 May 14 j 18:55	12° Π 12'48					

inferior conj	1062 May 03 j 21:51	18° $\text{8}^{\circ}28'20''$	-1°09'04	retrograde	1063 Apr 03 j 07:06	3° $\text{8}^{\circ}19'41''$	
minimum elong	1062 May 03 j 18:35	18° $\text{8}^{\circ}33'01''$	1°07'53	evening set	1063 Apr 05 j 08:57	3° $\text{8}^{\circ}07'41''$	
min. Earth dist.	1062 May 04 j 21:18	17° $\text{8}^{\circ}54'52''$	0.55004 AU		1063 Apr 12 j 12:24	30° $\text{R}^{\circ}\text{Y}^{\circ}$	
morning rise	1062 May 12 j 21:13	14° $\text{8}^{\circ}20'56''$		inferior conj	1063 Apr 14 j 00:19	29° $\text{Y}^{\circ}03'55''$	0°47'35
direct	1062 May 16 j 08:36	13° $\text{8}^{\circ}54'57''$		minimum elong	1063 Apr 14 j 02:19	29° $\text{Y}^{\circ}00'44''$	0°46'54
morning max el	1062 May 29 j 12:05	20° $\text{8}^{\circ}14'34''$	22°57'16	min. Earth dist.	1063 Apr 16 j 11:42	27° $\text{Y}^{\circ}30'11''$	0.55821 AU
	1062 Jun 06 j 16:56	0° II°		desc. node	1063 Apr 16 j 19:17	27° $\text{Y}^{\circ}18'33''$	
asc. node	1062 Jun 17 j 23:31	19° $\text{II}^{\circ}33'28''$		morning rise	1063 Apr 22 j 17:04	24° $\text{Y}^{\circ}25'45''$	
morning set	1062 Jun 21 j 04:57	26° $\text{II}^{\circ}10'39''$		direct	1063 Apr 27 j 02:34	23° $\text{Y}^{\circ}42'24''$	
	1062 Jun 23 j 00:21	0° E°			1063 May 10 j 07:40	0° 8°	
				morning max el	1063 May 11 j 03:14	0° $\text{8}^{\circ}45'29''$	24°38'38
superior conj	1062 Jun 28 j 07:45	11° $\text{E}^{\circ}22'04''$	1°30'14		1063 May 31 j 04:41	0° II°	
minimum elong	1062 Jun 28 j 05:28	11° $\text{E}^{\circ}09'53''$	1°29'58	asc. node	1063 Jun 04 j 20:35	9° $\text{II}^{\circ}21'56''$	
max. Earth dist.	1062 Jul 01 j 01:25	17° $\text{E}^{\circ}09'03''$	1.33906 AU	morning set	1063 Jun 05 j 16:51	11° $\text{II}^{\circ}08'11''$	
evening rise	1062 Jul 06 j 00:54	27° $\text{E}^{\circ}17'33''$					
	1062 Jul 07 j 10:05	0° Q°		superior conj	1063 Jun 12 j 16:45	26° $\text{II}^{\circ}14'54''$	1°14'24
	1062 Jul 25 j 01:19	0° P°		minimum elong	1063 Jun 12 j 14:19	26° $\text{II}^{\circ}01'40''$	1°14'01
desc. node	1062 Jul 26 j 21:38	2° $\text{P}^{\circ}39'31''$			1063 Jun 14 j 10:20	0° E°	
evening max el	1062 Aug 09 j 10:03	18° $\text{P}^{\circ}56'30''$	27°16'22	max. Earth dist.	1063 Jun 14 j 06:07	29° $\text{II}^{\circ}37'20''$	1.32968 AU
retrograde	1062 Aug 22 j 20:19	26° $\text{P}^{\circ}15'17''$		evening rise	1063 Jun 19 j 22:54	11° $\text{E}^{\circ}37'04''$	
evening set	1062 Aug 29 j 21:15	23° $\text{P}^{\circ}30'54''$			1063 Jun 29 j 15:34	0° Q°	
min. Earth dist.	1062 Sep 02 j 15:37	19° $\text{P}^{\circ}58'12''$	0.64672 AU	desc. node	1063 Jul 13 j 18:37	21° $\text{Q}^{\circ}38'11''$	
inferior conj	1062 Sep 04 j 21:32	17° $\text{P}^{\circ}31'09''$	-2°53'07		1063 Jul 20 j 21:00	0° P°	
minimum elong	1062 Sep 05 j 01:56	17° $\text{P}^{\circ}19'10''$	2°51'36	evening max el	1063 Jul 22 j 19:52	1° $\text{P}^{\circ}56'31''$	27°24'54
morning rise	1062 Sep 11 j 07:29	12° $\text{P}^{\circ}01'59''$		retrograde	1063 Aug 05 j 13:29	9° $\text{P}^{\circ}14'52''$	
direct	1062 Sep 13 j 23:15	11° $\text{P}^{\circ}25'08''$		evening set	1063 Aug 12 j 18:32	6° $\text{P}^{\circ}40'17''$	
asc. node	1062 Sep 13 j 22:41	11° $\text{P}^{\circ}25'08''$		min. Earth dist.	1063 Aug 16 j 08:46	3° $\text{P}^{\circ}38'43''$	0.63026 AU
morning max el	1062 Sep 20 j 11:22	14° $\text{P}^{\circ}53'09''$	18°02'06	inferior conj	1063 Aug 19 j 03:23	0° $\text{P}^{\circ}55'34''$	-3°44'54
	1062 Oct 01 j 04:08	0° E°		minimum elong	1063 Aug 19 j 08:28	0° $\text{P}^{\circ}43'05''$	3°43'33
morning set	1062 Oct 08 j 03:22	11° $\text{E}^{\circ}39'14''$			1063 Aug 20 j 02:13	30° $\text{R}^{\circ}\text{Q}^{\circ}$	
	1062 Oct 19 j 05:39	0° M°		morning rise	1063 Aug 25 j 23:41	25° $\text{Q}^{\circ}44'16''$	
				direct	1063 Aug 28 j 11:32	25° $\text{Q}^{\circ}15'12''$	
superior conj	1062 Oct 21 j 19:19	4° $\text{M}^{\circ}08'30''$	0°07'08	asc. node	1063 Aug 31 j 19:45	26° $\text{Q}^{\circ}08'33''$	
minimum elong	1062 Oct 21 j 20:10	4° $\text{M}^{\circ}11'57''$	0°07'01	morning max el	1063 Sep 04 j 03:17	28° $\text{Q}^{\circ}40'55''$	17°52'14
behind sun begin	1062 Oct 21 j 10:35	3° $\text{M}^{\circ}33'29''$			1063 Sep 05 j 09:03	0° P°	
behind sun end	1062 Oct 22 j 05:45	4° $\text{M}^{\circ}50'21''$		morning set	1063 Sep 20 j 11:39	24° $\text{P}^{\circ}02'45''$	
desc. node	1062 Oct 22 j 20:56	5° $\text{M}^{\circ}51'02''$			1063 Sep 23 j 20:54	0° E°	
max. Earth dist.	1062 Oct 26 j 03:50	11° $\text{M}^{\circ}04'41''$	1.44718 AU				
evening rise	1062 Nov 07 j 04:36	29° $\text{M}^{\circ}51'03''$		superior conj	1063 Oct 02 j 04:21	14° $\text{E}^{\circ}14'39''$	0°49'32
	1062 Nov 07 j 06:55	0° J°		minimum elong	1063 Oct 02 j 08:46	14° $\text{E}^{\circ}33'08''$	0°48'57
greatest brilliancy	1062 Nov 21 j 03:19	21° $\text{J}^{\circ}04'04''$	-0.6m	max. Earth dist.	1063 Oct 08 j 19:28	25° $\text{E}^{\circ}07'49''$	1.43650 AU
	1062 Nov 27 j 09:27	0° Z°		desc. node	1063 Oct 09 j 17:56	26° $\text{E}^{\circ}38'08''$	
evening max el	1062 Dec 03 j 08:11	7° $\text{Z}^{\circ}14'06''$	20°00'29		1063 Oct 11 j 20:33	0° M°	
retrograde	1062 Dec 10 j 23:35	11° $\text{Z}^{\circ}42'34''$		evening rise	1063 Oct 17 j 12:07	8° $\text{M}^{\circ}51'02''$	
asc. node	1062 Dec 10 j 21:57	11° $\text{Z}^{\circ}42'33''$			1063 Oct 31 j 13:14	0° J°	
evening set	1062 Dec 14 j 15:13	10° $\text{Z}^{\circ}24'42''$		evening max el	1063 Nov 16 j 07:52	20° $\text{J}^{\circ}43'17''$	21°06'57
inferior conj	1062 Dec 20 j 02:04	4° $\text{Z}^{\circ}22'09''$	2°45'54	retrograde	1063 Nov 24 j 21:11	25° $\text{J}^{\circ}47'58''$	
minimum elong	1062 Dec 19 j 23:22	4° $\text{Z}^{\circ}31'12''$	2°45'08	asc. node	1063 Nov 27 j 18:59	25° $\text{J}^{\circ}00'34''$	
min. Earth dist.	1062 Dec 20 j 23:25	3° $\text{Z}^{\circ}10'46''$	0.66872 AU	evening set	1063 Nov 28 j 22:37	24° $\text{J}^{\circ}14'48''$	
	1062 Dec 23 j 12:10	30° $\text{R}^{\circ}\text{J}^{\circ}$		inferior conj	1063 Dec 04 j 07:28	18° $\text{J}^{\circ}01'53''$	2°05'48
morning rise	1062 Dec 25 j 07:19	28° $\text{J}^{\circ}09'01''$		minimum elong	1063 Dec 04 j 05:02	18° $\text{J}^{\circ}10'16''$	2°04'56
direct	1062 Dec 31 j 04:36	25° $\text{J}^{\circ}31'59''$		min. Earth dist.	1063 Dec 04 j 16:40	17° $\text{J}^{\circ}30'13''$	0.67484 AU
	1063 Jan 09 j 06:41	0° Z°		morning rise	1063 Dec 09 j 11:16	11° $\text{J}^{\circ}48'38''$	
morning max el	1063 Jan 12 j 00:53	2° $\text{Z}^{\circ}35'26''$	25°09'50	direct	1063 Dec 14 j 17:40	9° $\text{J}^{\circ}30'53''$	
desc. node	1063 Jan 18 j 20:07	10° $\text{Z}^{\circ}20'08''$		morning max el	1063 Dec 25 j 09:24	15° $\text{J}^{\circ}52'05''$	23°43'04
	1063 Feb 01 j 21:32	0° \approx		desc. node	1064 Jan 05 j 17:09	29° $\text{J}^{\circ}35'31''$	
morning set	1063 Feb 17 j 06:09	25° \approx 27'20			1064 Jan 06 j 00:21	0° Z°	
	1063 Feb 19 j 18:08	0° X°			1064 Jan 25 j 21:26	0° \approx	
max. Earth dist.	1063 Feb 20 j 22:34	2° $\text{X}^{\circ}11'41''$	1.36671 AU	morning set	1064 Jan 29 j 19:10	6° \approx 32'24	
				max. Earth dist.	1064 Feb 02 j 17:27	13° \approx 21'12	1.38734 AU
superior conj	1063 Feb 27 j 02:45	14° $\text{X}^{\circ}03'27''$	-1°28'37				
minimum elong	1063 Feb 27 j 06:44	14° $\text{X}^{\circ}23'07''$	1°28'05	superior conj	1064 Feb 10 j 03:01	26° \approx 51'10	-1°49'14
evening rise	1063 Mar 07 j 09:18	0° $\text{Y}^{\circ}42'04''$		minimum elong	1064 Feb 10 j 06:52	27° \approx 09'18	1°48'55
	1063 Mar 07 j 00:57	0° Y°			1064 Feb 11 j 18:53	0° X°	
asc. node	1063 Mar 08 j 21:18	3° $\text{Y}^{\circ}42'21''$		evening rise	1064 Feb 19 j 05:41	14° $\text{X}^{\circ}26'52''$	
evening max el	1063 Mar 24 j 15:57	28° $\text{Y}^{\circ}41'23''$	19°37'15	asc. node	1064 Feb 23 j 18:19	23° $\text{X}^{\circ}07'37''$	
	1063 Mar 26 j 03:10	0° 8°			1064 Feb 27 j 14:45	0° Y°	

evening max el	1064 Mar 06 j 15:03	10° Υ 53'27	18°47'20	retrograde	1065 Feb 25 j 00:49	27° X 08'49	
retrograde	1064 Mar 14 j 18:28	14° Υ 50'43		evening set	1065 Feb 27 j 13:23	26° X 43'09	
evening set	1064 Mar 17 j 01:18	14° Υ 33'15		inferior conj	1065 Mar 06 j 15:36	22° X 02'01	3°16'09
inferior conj	1064 Mar 24 j 21:21	10° Υ 12'59	2°19'08	minimum elong	1065 Mar 06 j 18:51	21° X 55'01	3°15'34
minimum elong	1064 Mar 25 j 01:30	10° Υ 05'19	2°17'59	min. Earth dist.	1065 Mar 10 j 01:37	19° X 07'21	0.59451 AU
min. Earth dist.	1064 Mar 28 j 04:31	7° Υ 48'34	0.57415 AU	morning rise	1065 Mar 13 j 21:58	16° X 24'58	
morning rise	1064 Apr 01 j 22:37	5° Υ 01'35		direct	1065 Mar 20 j 07:28	14° X 33'59	
desc. node	1064 Apr 02 j 16:19	4° Υ 43'21		desc. node	1065 Mar 20 j 13:21	14° X 34'08	
direct	1064 Apr 07 j 10:34	3° Υ 47'42		morning max el	1065 Apr 03 j 15:09	22° X 19'12	27°15'26
morning max el	1064 Apr 21 j 18:42	11° Υ 18'23	26°09'35		1065 Apr 10 j 09:53	0° Υ	
	1064 May 06 j 04:42	0° B			1065 Apr 29 j 03:31	0° B	
morning set	1064 May 20 j 04:05	26° B 02'41		morning set	1065 May 04 j 13:00	10° B 48'45	
asc. node	1064 May 21 j 17:38	29° B 22'05		asc. node	1065 May 08 j 14:40	19° B 29'22	
	1064 May 22 j 00:42	0° II		max. Earth dist.	1065 May 11 j 05:03	25° B 10'23	1.32252 AU
superior conj	1064 May 27 j 04:00	11° II 12'37	0°54'39	superior conj	1065 May 11 j 15:45	26° B 09'16	0°31'45
minimum elong	1064 May 27 j 01:54	11° II 01'04	0°54'15	minimum elong	1065 May 11 j 14:23	26° B 01'45	0°31'28
max. Earth dist.	1064 May 27 j 16:29	12° II 21'04	1.32421 AU		1065 May 13 j 09:44	0° II	
evening rise	1064 Jun 03 j 03:42	26° II 15'44		evening rise	1065 May 18 j 12:52	11° II 05'29	
	1064 Jun 04 j 23:18	0° S			1065 May 28 j 05:25	0° S	
	1064 Jun 22 j 04:39	0° Ω		evening max el	1065 Jun 16 j 00:20	25° S 57'59	26°04'35
desc. node	1064 Jun 29 j 15:38	9° Ω 41'40		desc. node	1065 Jun 16 j 12:39	26° S 26'54	
evening max el	1064 Jul 04 j 01:23	14° Ω 20'03	27°01'01		1065 Jun 20 j 23:15	0° Ω	
retrograde	1064 Jul 17 j 23:35	21° Ω 35'17		retrograde	1065 Jun 30 j 00:44	3° Ω 09'13	
evening set	1064 Jul 24 j 23:31	19° Ω 24'21		evening set	1065 Jul 06 j 07:25	1° Ω 33'30	
min. Earth dist.	1064 Jul 28 j 15:37	16° Ω 42'58	0.61092 AU		1065 Jul 08 j 23:51	30° R S	
inferior conj	1064 Jul 31 j 20:13	13° Ω 57'40	-4°26'55	min. Earth dist.	1065 Jul 10 j 13:00	28° S 55'58	0.59032 AU
minimum elong	1064 Aug 01 j 00:37	13° Ω 48'07	4°26'12	inferior conj	1065 Jul 13 j 20:23	26° S 27'17	-4°50'35
morning rise	1064 Aug 08 j 03:26	9° Ω 07'04		minimum elong	1065 Jul 13 j 21:55	26° S 24'24	4°50'31
direct	1064 Aug 10 j 14:02	8° Ω 43'01		morning rise	1065 Jul 21 j 14:36	21° S 59'21	
morning max el	1064 Aug 17 j 16:56	12° Ω 15'01	18°01'10	direct	1065 Jul 24 j 02:27	21° S 38'19	
asc. node	1064 Aug 17 j 16:50	12° Ω 14'46		morning max el	1065 Aug 01 j 01:08	25° S 26'23	18°30'06
	1064 Aug 29 j 14:17	0° np		asc. node	1065 Aug 04 j 13:54	29° S 28'09	
morning set	1064 Sep 02 j 13:49	7° np 17'57			1065 Aug 04 j 23:25	0° Ω	
				morning set	1065 Aug 17 j 04:42	21° Ω 10'00	
superior conj	1064 Sep 12 j 16:32	25° np 40'53	1°20'00		1065 Aug 21 j 18:48	0° np	
minimum elong	1064 Sep 12 j 20:59	26° np 00'28	1°19'33	superior conj	1065 Aug 26 j 03:36	8° np 14'49	1°38'13
	1064 Sep 15 j 03:52	0° A		minimum elong	1065 Aug 26 j 06:20	8° np 27'28	1°38'02
max. Earth dist.	1064 Sep 20 j 06:26	8° A 39'48	1.42038 AU	max. Earth dist.	1065 Sep 02 j 12:33	21° np 30'37	1.40088 AU
desc. node	1064 Sep 25 j 14:57	17° A 23'56		evening rise	1065 Sep 06 j 19:43	28° np 49'59	
evening rise	1064 Sep 26 j 05:06	18° A 20'25			1065 Sep 07 j 12:32	0° A	
	1064 Oct 03 j 17:02	0° M		desc. node	1065 Sep 12 j 11:59	8° A 04'26	
	1064 Oct 25 j 06:08	0° Z			1065 Sep 27 j 05:32	0° M	
evening max el	1064 Oct 29 j 02:10	4° Z 14'21	22°22'48	evening max el	1065 Oct 11 j 16:16	17° M 47'53	23°42'48
retrograde	1064 Nov 07 j 16:58	9° Z 57'20		retrograde	1065 Oct 22 j 09:37	24° M 07'10	
evening set	1064 Nov 12 j 06:12	8° Z 07'20		evening set	1065 Oct 27 j 12:21	21° M 59'32	
asc. node	1064 Nov 13 j 16:02	6° Z 47'59		asc. node	1065 Oct 31 j 13:06	17° M 27'10	
inferior conj	1064 Nov 17 j 14:37	1° Z 47'39	1°19'22	inferior conj	1065 Nov 01 j 21:42	15° M 36'48	0°28'00
minimum elong	1064 Nov 17 j 12:53	1° Z 53'38	1°18'40	minimum elong	1065 Nov 01 j 21:02	15° M 39'04	0°27'43
min. Earth dist.	1064 Nov 17 j 12:47	1° Z 53'58	0.67747 AU	min. Earth dist.	1065 Nov 01 j 09:20	16° M 18'56	0.67677 AU
	1064 Nov 18 j 22:01	30° RM		morning rise	1065 Nov 07 j 05:41	9° M 29'52	
morning rise	1064 Nov 22 j 19:25	25° M 36'23		direct	1065 Nov 11 j 07:07	7° M 57'05	
direct	1064 Nov 27 j 10:52	23° M 41'06		morning max el	1065 Nov 19 j 14:12	12° M 46'02	20°55'05
morning max el	1064 Dec 06 j 20:40	29° M 14'20	22°15'34		1065 Dec 02 j 23:56	0° Z	
	1064 Dec 07 j 14:24	0° Z		desc. node	1065 Dec 09 j 11:13	9° Z 30'44	
desc. node	1064 Dec 22 j 14:11	19° Z 22'06		morning set	1065 Dec 19 j 09:29	24° Z 41'35	
	1064 Dec 29 j 18:58	0° B			1065 Dec 22 j 18:25	0° B	
morning set	1065 Jan 09 j 03:40	16° B 13'40		max. Earth dist.	1065 Dec 27 j 18:39	8° B 02'40	1.42781 AU
max. Earth dist.	1065 Jan 14 j 14:23	25° B 13'28	1.40872 AU				
	1065 Jan 17 j 09:43	0° \approx		superior conj	1066 Jan 03 j 16:52	19° B 32'05	-2°01'41
superior conj	1065 Jan 22 j 09:33	8° \approx 45'10	-2°01'47	minimum elong	1066 Jan 03 j 14:24	19° B 21'41	2°01'37
minimum elong	1065 Jan 22 j 11:25	8° \approx 53'32	2°01'44		1066 Jan 09 j 18:40	0° \approx	
evening rise	1065 Feb 01 j 15:28	27° \approx 36'36		evening rise	1066 Jan 15 j 10:43	10° \approx 02'37	
	1065 Feb 02 j 22:08	0° X			1066 Jan 27 j 03:05	0° X	
asc. node	1065 Feb 09 j 15:21	12° X 07'48		asc. node	1066 Jan 27 j 12:24	0° X 34'35	
evening max el	1065 Feb 17 j 21:47	23° X 35'57	18°17'30	evening max el	1066 Feb 01 j 08:53	6° X 39'27	18°07'28

retrograde	1066 Feb 07 j 23:13	10° X 03'49		1067 Jan 02 j 09:36	0° \approx	
evening set	1066 Feb 10 j 16:42	9° X 28'41		asc. node	1067 Jan 14 j 09:26	18° \approx 17'50
inferior conj	1066 Feb 17 j 04:40	4° X 26'25	3°42'31	evening max el	1067 Jan 15 j 21:25	19° \approx 56'15 18°16'33
minimum elong	1066 Feb 17 j 05:51	4° X 23'29	3°42'26	retrograde	1067 Jan 22 j 08:51	23° \approx 25'22
min. Earth dist.	1066 Feb 20 j 05:59	1° X 26'21	0.61566 AU	evening set	1067 Jan 25 j 07:09	22° \approx 39'54
	1066 Feb 21 j 20:26	30° R \approx		inferior conj	1067 Jan 31 j 08:32	17° \approx 18'00 3°45'35
morning rise	1066 Feb 23 j 17:34	28° \approx 32'45		minimum elong	1067 Jan 31 j 07:48	17° \approx 20'03 3°45'34
direct	1066 Mar 02 j 14:41	26° \approx 08'36		min. Earth dist.	1067 Feb 02 j 19:44	14° \approx 34'07 0.63509 AU
desc. node	1066 Mar 07 j 10:23	27° \approx 12'17		morning rise	1067 Feb 06 j 07:39	11° \approx 14'27
	1066 Mar 12 j 03:33	0° X		direct	1067 Feb 13 j 06:29	8° \approx 28'53
morning max el	1066 Mar 16 j 18:03	4° X 01'17	27°46'41	desc. node	1067 Feb 22 j 07:26	12° \approx 11'15
	1066 Apr 05 j 01:02	0° Y		morning max el	1067 Feb 27 j 01:47	16° \approx 22'39 27°40'40
morning set	1066 Apr 18 j 17:42	25° Y 20'10			1067 Mar 10 j 08:12	0° X
	1066 Apr 20 j 23:38	0° B			1067 Mar 28 j 18:02	0° Y
max. Earth dist.	1066 Apr 24 j 15:55	7° B 52'04	1.32457 AU	morning set	1067 Apr 02 j 15:44	9° Y 28'05
asc. node	1066 Apr 25 j 11:43	9° B 39'40		max. Earth dist.	1067 Apr 07 j 20:54	20° Y 11'05 1.33064 AU
superior conj	1066 Apr 26 j 02:20	10° B 59'18	0°06'27	superior conj	1067 Apr 10 j 09:53	25° Y 35'47 -0°20'29
minimum elong	1066 Apr 26 j 02:02	10° B 57'39	0°06'23	minimum elong	1067 Apr 10 j 10:53	25° Y 41'08 0°20'17
behind sun begin	1066 Apr 25 j 21:20	10° B 32'01		asc. node	1067 Apr 12 j 08:45	29° Y 48'06
behind sun end	1066 Apr 26 j 06:44	11° B 23'19			1067 Apr 12 j 10:57	0° B
evening rise	1066 May 03 j 00:17	25° B 59'17		evening rise	1067 Apr 17 j 12:02	10° B 49'29
	1066 May 04 j 22:16	0° II			1067 Apr 27 j 09:32	0° II
	1066 May 22 j 14:03	0° E		evening max el	1067 May 10 j 06:44	17° II 24'52 23°07'22
evening max el	1066 May 28 j 16:38	6° E 53'04	24°42'18	desc. node	1067 May 21 j 06:42	23° II 53'33
desc. node	1066 Jun 03 j 09:40	11° E 23'16		retrograde	1067 May 23 j 17:34	24° II 07'15
retrograde	1066 Jun 11 j 15:13	13° E 56'51		evening set	1067 May 27 j 06:41	23° II 39'38
evening set	1066 Jun 16 j 15:59	12° E 59'35		min. Earth dist.	1067 Jun 03 j 16:11	20° II 20'27 0.55637 AU
min. Earth dist.	1066 Jun 22 j 03:52	10° E 08'13	0.57101 AU	inferior conj	1067 Jun 05 j 09:54	19° II 19'36 -3°52'47
inferior conj	1066 Jun 25 j 00:59	8° E 15'50	-4°43'29	minimum elong	1067 Jun 05 j 02:34	19° II 30'19 3°51'07
minimum elong	1066 Jun 24 j 21:37	8° E 21'21	4°43'11	morning rise	1067 Jun 14 j 01:04	15° II 25'57
morning rise	1066 Jul 03 j 06:00	4° E 09'16		direct	1067 Jun 16 j 19:40	15° II 07'32
direct	1066 Jul 05 j 20:40	3° E 50'09		morning max el	1067 Jun 27 j 14:07	20° II 06'35 20°30'53
morning max el	1066 Jul 15 j 00:58	8° E 06'39	19°20'00		1067 Jul 05 j 12:49	0° E
asc. node	1066 Jul 22 j 10:57	17° E 34'32		asc. node	1067 Jul 09 j 08:00	6° E 20'49
	1066 Jul 29 j 09:39	0° O		morning set	1067 Jul 16 j 10:10	20° E 05'53
morning set	1066 Aug 01 j 04:27	5° O 28'51			1067 Jul 21 j 05:20	0° O
superior conj	1066 Aug 09 j 07:56	21° O 41'02	1°45'51	superior conj	1067 Jul 24 j 00:32	5° O 44'22 1°44'57
minimum elong	1066 Aug 09 j 08:39	21° O 44'32	1°45'50	minimum elong	1067 Jul 23 j 23:37	5° O 39'45 1°44'54
	1066 Aug 13 j 16:17	0° P		max. Earth dist.	1067 Jul 28 j 22:31	15° O 31'01 1.36176 AU
max. Earth dist.	1066 Aug 15 j 16:07	3° P 41'33	1.38053 AU	evening rise	1067 Aug 01 j 22:53	23° O 07'36
evening rise	1066 Aug 19 j 10:42	10° P 28'20			1067 Aug 05 j 18:11	0° P
desc. node	1066 Aug 30 j 09:02	28° P 35'36		desc. node	1067 Aug 17 j 06:04	18° P 51'36
	1066 Aug 31 j 06:46	0° Q			1067 Aug 24 j 23:35	0° Q
	1066 Sep 22 j 18:50	0° M		evening max el	1067 Sep 06 j 15:56	15° Q 02'31 26°08'11
evening max el	1066 Sep 24 j 04:14	1° M 24'40	25°00'21	retrograde	1067 Sep 19 j 06:13	22° Q 11'13
retrograde	1066 Oct 05 j 22:14	8° M 13'43		evening set	1067 Sep 25 j 13:26	19° Q 33'42
evening set	1066 Oct 11 j 15:23	5° M 49'24		min. Earth dist.	1067 Sep 29 j 18:24	15° Q 03'30 0.66537 AU
min. Earth dist.	1066 Oct 16 j 04:00	0° M 43'12	0.67277 AU	inferior conj	1067 Oct 01 j 04:40	13° Q 17'01 -1°23'51
	1066 Oct 16 j 17:09	30° R Q		minimum elong	1067 Oct 01 j 06:50	13° Q 10'15 1°22'57
inferior conj	1066 Oct 17 j 03:00	29° Q 27'35	-0°26'53	asc. node	1067 Oct 05 j 07:11	8° Q 43'13
minimum elong	1066 Oct 17 j 03:40	29° Q 25'22	0°26'35	morning rise	1067 Oct 07 j 00:38	7° Q 26'19
asc. node	1066 Oct 18 j 10:09	27° Q 46'37		direct	1067 Oct 10 j 03:31	6° Q 30'38
morning rise	1066 Oct 22 j 16:06	23° Q 27'25		morning max el	1067 Oct 16 j 24:00	10° Q 19'46 18°53'04
direct	1066 Oct 26 j 05:11	22° Q 14'56			1067 Oct 31 j 03:58	0° M
morning max el	1066 Nov 02 j 15:34	26° Q 28'49	19°46'39	morning set	1067 Nov 07 j 17:45	11° M 53'44
	1066 Nov 05 j 18:48	0° M		desc. node	1067 Nov 13 j 05:20	20° M 31'18
desc. node	1066 Nov 26 j 08:16	29° M 55'25			1067 Nov 19 j 06:13	0° J
	1066 Nov 26 j 09:27	0° J		max. Earth dist.	1067 Nov 22 j 22:49	5° J 47'58 1.44978 AU
morning set	1066 Nov 28 j 05:55	2° J 51'29		superior conj	1067 Nov 24 j 04:19	7° J 44'03 -1°08'33
max. Earth dist.	1066 Dec 10 j 06:14	21° J 39'54	1.44206 AU	minimum elong	1067 Nov 23 j 20:17	7° J 12'26 1°07'37
superior conj	1066 Dec 14 j 21:35	29° J 06'02	-1°44'20		1067 Dec 08 j 03:50	0° Z
minimum elong	1066 Dec 14 j 14:09	28° J 36'02	1°43'46	evening rise	1067 Dec 09 j 13:03	2° Z 14'12
	1066 Dec 15 j 10:55	0° Z			1067 Dec 27 j 11:29	0° \approx
evening rise	1066 Dec 28 j 11:10	21° Z 37'05		evening max el	1067 Dec 30 j 08:49	3° \approx 21'05 18°43'54

asc. node	1068 Jan 01 j 06:28	5° \approx 05'17		evening rise	1068 Nov 18 j 15:39	11° \approx 55'06	
retrograde	1068 Jan 06 j 01:36	7° \approx 05'55			1068 Nov 30 j 07:31	0° \approx	
evening set	1068 Jan 09 j 05:28	6° \approx 09'04		greatest brilliancy	1068 Nov 30 j 08:32	0° \approx 03'52	-0.7m
inferior conj	1068 Jan 14 j 23:20	0° \approx 29'33	3°31'43	evening max el	1068 Dec 12 j 16:52	16° \approx 49'13	19°28'13
minimum elong	1068 Jan 14 j 21:19	0° \approx 35'43	3°31'26	asc. node	1068 Dec 18 j 03:30	20° \approx 41'45	
	1068 Jan 15 j 09:01	30° \approx		retrograde	1068 Dec 19 j 22:05	20° \approx 59'09	
min. Earth dist.	1068 Jan 16 j 19:07	28° \approx 16'31	0.65127 AU	evening set	1068 Dec 23 j 08:58	19° \approx 49'24	
morning rise	1068 Jan 20 j 12:45	24° \approx 20'27		inferior conj	1068 Dec 28 j 21:48	13° \approx 54'39	3°05'26
direct	1068 Jan 27 j 05:32	21° \approx 28'09		minimum elong	1068 Dec 28 j 19:10	14° \approx 03'13	3°04'49
desc. node	1068 Feb 09 j 04:28	28° \approx 55'26		min. Earth dist.	1068 Dec 30 j 02:55	12° \approx 20'00	0.66354 AU
morning max el	1068 Feb 09 j 11:28	29° \approx 12'55	27°01'03	morning rise	1069 Jan 03 j 05:07	7° \approx 42'36	
	1068 Feb 10 j 05:56	0° \approx		direct	1069 Jan 09 j 10:33	4° \approx 56'58	
	1068 Mar 03 j 04:41	0° \approx		morning max el	1069 Jan 21 j 20:41	12° \approx 19'00	25°55'30
morning set	1068 Mar 16 j 04:03	23° \approx 02'58		desc. node	1069 Jan 26 j 01:31	16° \approx 54'22	
	1068 Mar 19 j 16:53	0° \approx			1069 Feb 05 j 02:29	0° \approx	
max. Earth dist.	1068 Mar 20 j 16:05	1° \approx 56'51	1.34113 AU		1069 Feb 23 j 20:48	0° \approx	
				morning set	1069 Feb 27 j 02:27	5° \approx 51'48	
superior conj	1068 Mar 24 j 12:26	9° \approx 52'43	-0°47'57	max. Earth dist.	1069 Mar 02 j 23:27	13° \approx 10'06	1.35622 AU
minimum elong	1068 Mar 24 j 14:49	10° \approx 05'06	0°47'29				
asc. node	1068 Mar 29 j 05:47	19° \approx 50'45		superior conj	1069 Mar 08 j 07:29	23° \approx 42'18	-1°14'31
evening rise	1068 Mar 31 j 22:18	25° \approx 30'08		minimum elong	1069 Mar 08 j 11:02	24° \approx 00'15	1°13'56
	1068 Apr 03 j 02:40	0° \approx			1069 Mar 11 j 09:32	0° \approx	
evening max el	1068 Apr 21 j 02:12	28° \approx 05'19	21°34'37	evening rise	1069 Mar 16 j 05:05	9° \approx 54'35	
	1068 Apr 23 j 05:57	0° \approx		asc. node	1069 Mar 16 j 02:48	9° \approx 42'55	
retrograde	1068 May 03 j 09:02	4° \approx 05'26			1069 Mar 27 j 01:00	0° \approx	
evening set	1068 May 05 j 19:46	3° \approx 51'53		evening max el	1069 Apr 03 j 08:11	9° \approx 17'22	20°14'52
desc. node	1068 May 07 j 03:41	3° \approx 33'44		retrograde	1069 Apr 13 j 22:41	14° \approx 24'14	
	1068 May 14 j 22:56	30° \approx		evening set	1069 Apr 16 j 00:22	14° \approx 13'23	
inferior conj	1068 May 15 j 05:41	29° \approx 50'32	-2°17'01	desc. node	1069 Apr 24 j 00:41	10° \approx 51'32	
minimum elong	1068 May 14 j 23:30	29° \approx 59'12	2°14'58	inferior conj	1069 Apr 25 j 01:30	10° \approx 15'07	-0°17'57
min. Earth dist.	1068 May 15 j 04:41	29° \approx 51'57	0.54965 AU	minimum elong	1069 Apr 25 j 00:40	10° \approx 16'21	0°17'38
morning rise	1068 May 24 j 04:00	25° \approx 53'18		min. Earth dist.	1069 Apr 26 j 18:00	9° \approx 15'23	0.55248 AU
direct	1068 May 27 j 06:54	25° \approx 31'58		morning rise	1069 May 03 j 23:21	5° \approx 55'59	
	1068 Jun 07 j 02:08	0° \approx		direct	1069 May 07 j 19:27	5° \approx 23'57	
morning max el	1068 Jun 08 j 16:03	1° \approx 22'53	22°00'06	morning max el	1069 May 21 j 09:24	12° \approx 03'41	23°40'35
asc. node	1068 Jun 25 j 05:03	25° \approx 37'16			1069 Jun 03 j 22:30	0° \approx	
	1068 Jun 27 j 10:10	0° \approx		asc. node	1069 Jun 12 j 02:05	15° \approx 16'05	
morning set	1068 Jun 29 j 19:41	4° \approx 55'12		morning set	1069 Jun 14 j 07:14	19° \approx 51'34	
					1069 Jun 19 j 00:50	0° \approx	
superior conj	1068 Jul 07 j 01:39	20° \approx 13'40	1°37'13				
minimum elong	1068 Jul 06 j 23:41	20° \approx 03'24	1°37'03	superior conj	1069 Jun 21 j 08:27	5° \approx 00'14	1°24'02
max. Earth dist.	1068 Jul 10 j 13:08	27° \approx 26'31	1.34627 AU	minimum elong	1069 Jun 21 j 06:02	4° \approx 47'14	1°23'44
	1068 Jul 11 j 19:25	0° \approx		max. Earth dist.	1069 Jun 23 j 13:25	9° \approx 43'39	1.33463 AU
evening rise	1068 Jul 15 j 03:33	6° \approx 35'34		evening rise	1069 Jun 28 j 20:18	20° \approx 39'51	
	1068 Jul 28 j 09:48	0° \approx			1069 Jul 03 j 15:55	0° \approx	
desc. node	1068 Aug 03 j 03:04	8° \approx 45'32		desc. node	1069 Jul 21 j 00:03	28° \approx 08'13	
evening max el	1068 Aug 19 j 04:03	28° \approx 35'09	26°58'27		1069 Jul 22 j 09:04	0° \approx	
	1068 Aug 20 j 16:46	0° \approx		evening max el	1069 Aug 01 j 15:34	11° \approx 52'00	27°23'53
retrograde	1068 Sep 01 j 08:45	5° \approx 52'34		retrograde	1069 Aug 15 j 05:21	19° \approx 10'22	
evening set	1068 Sep 08 j 04:11	3° \approx 08'20		evening set	1069 Aug 22 j 08:52	16° \approx 28'57	
	1068 Sep 11 j 09:58	30° \approx		min. Earth dist.	1069 Aug 26 j 01:11	13° \approx 10'09	0.64010 AU
min. Earth dist.	1068 Sep 12 j 02:12	29° \approx 14'48	0.65450 AU	inferior conj	1069 Aug 28 j 12:28	10° \approx 35'18	-3°15'54
inferior conj	1068 Sep 14 j 00:37	27° \approx 01'10	-2°21'05	minimum elong	1069 Aug 28 j 17:16	10° \approx 22'44	3°14'24
minimum elong	1068 Sep 14 j 04:17	26° \approx 50'36	2°19'42	morning rise	1069 Sep 04 j 02:41	5° \approx 13'02	
morning rise	1068 Sep 20 j 05:03	21° \approx 22'56		direct	1069 Sep 06 j 16:32	4° \approx 39'44	
asc. node	1068 Sep 21 j 04:14	20° \approx 58'37		asc. node	1069 Sep 08 j 01:18	4° \approx 49'13	
direct	1068 Sep 23 j 00:08	20° \approx 40'15		morning max el	1069 Sep 13 j 05:15	8° \approx 05'49	17°55'41
morning max el	1068 Sep 29 j 13:24	24° \approx 13'43	18°15'46		1069 Sep 27 j 19:23	0° \approx	
	1068 Oct 04 j 06:36	0° \approx		morning set	1069 Sep 30 j 05:13	4° \approx 08'04	
morning set	1068 Oct 18 j 09:50	22° \approx 21'00					
	1068 Oct 23 j 02:30	0° \approx		superior conj	1069 Oct 13 j 00:12	25° \approx 35'58	0°26'24
desc. node	1068 Oct 30 j 02:22	11° \approx 14'01		minimum elong	1069 Oct 13 j 03:04	25° \approx 47'38	0°25'59
					1069 Oct 15 j 17:22	0° \approx	
superior conj	1068 Nov 02 j 06:07	16° \approx 14'25	-0°20'53	desc. node	1069 Oct 16 j 23:24	2° \approx 00'37	
minimum elong	1068 Nov 02 j 03:25	16° \approx 03'42	0°20'31	max. Earth dist.	1069 Oct 18 j 11:44	4° \approx 25'46	1.44343 AU
max. Earth dist.	1068 Nov 04 j 17:33	20° \approx 08'44	1.45023 AU	evening rise	1069 Oct 29 j 02:02	21° \approx 00'06	
	1068 Nov 11 j 00:26	0° \approx			1069 Nov 03 j 23:19	0° \approx	

	1069 Nov 25 j 12:46	0°♂		1070 Oct 08 j 09:42	0°♂	
evening max el	1069 Nov 25 j 19:56	0°♂18'37 20°27'21		1070 Oct 28 j 15:03	0°♂	
retrograde	1069 Dec 03 j 19:51	5°♂01'23	evening max el	1070 Nov 08 j 17:12	13°♂48'02 21°38'20	
asc. node	1069 Dec 05 j 00:32	4°♂53'20	retrograde	1070 Nov 17 j 16:55	19°♂08'56	
evening set	1069 Dec 07 j 15:31	3°♂37'04	evening set	1070 Nov 21 j 23:14	17°♂28'30	
	1069 Dec 11 j 03:54	30°♂♂	asc. node	1070 Nov 21 j 21:35	17°♂31'43	
inferior conj	1069 Dec 13 j 01:19	27°♂29'50 2°29'46	inferior conj	1070 Nov 27 j 07:41	11°♂12'06 1°46'47	
minimum elong	1069 Dec 12 j 22:40	27°♂38'49 2°28'55	minimum elong	1070 Nov 27 j 05:30	11°♂19'39 1°45'58	
min. Earth dist.	1069 Dec 13 j 17:18	26°♂35'37 0.67183 AU	min. Earth dist.	1070 Nov 27 j 12:00	10°♂57'12 0.67636 AU	
morning rise	1069 Dec 18 j 05:39	21°♂16'41	morning rise	1070 Dec 02 j 11:39	4°♂59'37	
direct	1069 Dec 23 j 20:47	18°♂47'16	direct	1070 Dec 07 j 11:33	2°♂51'31	
morning max el	1070 Jan 04 j 05:05	25°♂33'06 24°33'38	morning max el	1070 Dec 17 j 14:32	8°♂52'17 23°05'32	
	1070 Jan 08 j 06:38	0°♂	desc. node	1070 Dec 30 j 19:39	25°♂16'19	
desc. node	1070 Jan 12 j 22:35	5°♂46'29		1071 Jan 03 j 03:38	0°♂	
	1070 Jan 29 j 15:23	0°♂	morning set	1071 Jan 21 j 06:57	28°♂10'12	
morning set	1070 Feb 09 j 05:30	17°♂39'30		1071 Jan 22 j 09:11	0°♂	
max. Earth dist.	1070 Feb 12 j 21:30	24°♂12'59 1.37530 AU	max. Earth dist.	1071 Jan 25 j 16:50	5°♂39'25 1.39648 AU	
	1070 Feb 16 j 00:35	0°♂				
			superior conj	1071 Feb 02 j 09:12	19°♂22'30 -1°55'48	
superior conj	1070 Feb 19 j 15:48	6°♂55'51 -1°38'06	minimum elong	1071 Feb 02 j 12:29	19°♂37'40 1°55'36	
minimum elong	1070 Feb 19 j 19:54	7°♂15'41 1°37'38		1071 Feb 08 j 00:58	0°♂	
evening rise	1070 Feb 28 j 06:06	23°♂56'22	evening rise	1071 Feb 11 j 22:28	7°♂28'00	
asc. node	1070 Mar 02 j 23:50	29°♂19'50	asc. node	1071 Feb 17 j 20:53	18°♂35'53	
	1070 Mar 03 j 08:08	0°♂		1071 Feb 25 j 01:08	0°♂	
evening max el	1070 Mar 17 j 01:32	21°♂08'20 19°13'28	evening max el	1071 Feb 28 j 04:15	3°♂34'45 18°32'11	
retrograde	1070 Mar 26 j 00:03	25°♂27'16	retrograde	1071 Mar 07 j 20:03	7°♂20'05	
evening set	1070 Mar 28 j 03:51	25°♂13'15	evening set	1071 Mar 10 j 05:15	6°♂59'27	
inferior conj	1070 Apr 05 j 11:02	21°♂02'59 1°30'32	inferior conj	1071 Mar 17 j 17:19	2°♂30'18 2°47'28	
minimum elong	1070 Apr 05 j 14:25	20°♂57'17 1°29'26	minimum elong	1071 Mar 17 j 21:21	2°♂22'20 2°46'30	
min. Earth dist.	1070 Apr 08 j 08:55	19°♂06'09 0.56427 AU		1071 Mar 20 j 22:05	30°♂♂	
desc. node	1070 Apr 10 j 21:44	17°♂34'22	min. Earth dist.	1071 Mar 21 j 03:20	29°♂50'10 0.58241 AU	
morning rise	1070 Apr 13 j 22:05	16°♂10'35	morning rise	1071 Mar 25 j 10:36	27°♂06'34	
direct	1070 Apr 18 j 18:55	15°♂15'51	desc. node	1071 Mar 28 j 18:47	25°♂54'22	
morning max el	1070 May 02 j 23:54	22°♂31'38 25°19'36	direct	1071 Mar 31 j 08:26	25°♂37'24	
	1070 May 09 j 14:46	0°♂		1071 Apr 11 j 00:02	0°♂	
	1070 May 27 j 11:25	0°♂	morning max el	1071 Apr 14 j 17:26	3°♂15'39 26°41'27	
morning set	1070 May 29 j 19:04	4°♂48'50		1071 May 04 j 01:07	0°♂	
asc. node	1070 May 29 j 23:08	5°♂10'15	morning set	1071 May 14 j 05:36	19°♂41'32	
			asc. node	1071 May 16 j 20:11	25°♂14'40	
superior conj	1070 Jun 05 j 18:38	19°♂55'57 1°06'26		1071 May 19 j 00:40	0°♂	
minimum elong	1070 Jun 05 j 16:16	19°♂43'06 1°06'03				
max. Earth dist.	1070 Jun 06 j 21:13	22°♂21'02 1.32692 AU	superior conj	1071 May 21 j 06:21	4°♂54'42 0°45'17	
	1070 Jun 10 j 10:30	0°♂	minimum elong	1071 May 21 j 04:31	4°♂44'35 0°44'56	
evening rise	1070 Jun 12 j 21:33	5°♂08'46	max. Earth dist.	1071 May 21 j 09:05	5°♂09'43 1.32303 AU	
	1070 Jun 26 j 07:16	0°♂	evening rise	1071 May 28 j 04:31	19°♂53'36	
desc. node	1070 Jul 07 j 21:03	16°♂45'53		1071 Jun 02 j 04:27	0°♂	
evening max el	1070 Jul 14 j 23:56	24°♂38'12 27°18'48		1071 Jun 20 j 23:45	0°♂	
	1070 Jul 22 j 01:54	0°♂	desc. node	1071 Jun 24 j 18:03	4°♂19'44	
retrograde	1070 Jul 28 j 19:19	1°♂54'38	evening max el	1071 Jun 27 j 02:38	6°♂42'26 26°40'36	
	1070 Aug 04 j 03:48	30°♂♂	retrograde	1071 Jul 11 j 01:57	13°♂56'39	
evening set	1070 Aug 04 j 23:45	29°♂28'23	evening set	1071 Jul 17 j 20:21	11°♂59'11	
min. Earth dist.	1070 Aug 08 j 13:47	26°♂37'19 0.62237 AU	min. Earth dist.	1071 Jul 21 j 16:11	9°♂21'55 0.60224 AU	
inferior conj	1070 Aug 11 j 13:13	23°♂51'24 -4°04'20	inferior conj	1071 Jul 24 j 23:23	6°♂40'53 -4°39'51	
minimum elong	1070 Aug 11 j 18:14	23°♂39'43 4°03'13	minimum elong	1071 Jul 25 j 02:53	6°♂33'46 4°39'26	
morning rise	1070 Aug 18 j 14:08	18°♂48'36	morning rise	1071 Aug 01 j 11:22	2°♂00'13	
direct	1070 Aug 21 j 01:16	18°♂21'50	direct	1071 Aug 03 j 22:14	1°♂37'41	
asc. node	1070 Aug 25 j 22:22	20°♂09'43	morning max el	1071 Aug 11 j 08:22	5°♂14'53 18°10'58	
morning max el	1070 Aug 27 j 20:35	21°♂48'44 17°53'43	asc. node	1071 Aug 12 j 19:26	6°♂46'37	
	1070 Sep 03 j 03:05	0°♂	morning set	1071 Aug 27 j 05:54	0°♂27'43	
morning set	1070 Sep 12 j 21:49	16°♂55'36		1071 Aug 27 j 00:00	0°♂	
	1070 Sep 20 j 05:55	0°♂				
			superior conj	1071 Sep 05 j 19:39	18°♂14'05 1°29'09	
superior conj	1070 Sep 23 j 21:01	6°♂16'47 1°04'01	minimum elong	1071 Sep 05 j 23:28	18°♂31'18 1°28'48	
minimum elong	1070 Sep 24 j 01:47	6°♂37'09 1°03'27		1071 Sep 12 j 12:37	0°♂	
max. Earth dist.	1070 Oct 01 j 02:04	18°♂19'10 1.43022 AU	max. Earth dist.	1071 Sep 13 j 10:33	1°♂33'08 1.41234 AU	
desc. node	1070 Oct 03 j 20:25	22°♂47'24	evening rise	1071 Sep 18 j 12:42	9°♂59'06	
evening rise	1070 Oct 08 j 11:30	0°♂07'05	desc. node	1071 Sep 20 j 17:25	13°♂31'16	

	1071 Oct 01 j 11:10	0° \mathbb{M}			1072 Sep 24 j 12:44	0° \mathbb{M}	
evening max el	1071 Oct 22 j 09:18	27° \mathbb{M} 19'04	22°56'41	evening max el	1072 Oct 03 j 22:14	10° \mathbb{M} 54'25	24°16'34
	1071 Oct 25 j 07:19	0° \mathbb{X}		retrograde	1072 Oct 15 j 02:46	17° \mathbb{M} 27'51	
retrograde	1071 Nov 01 j 11:38	3° \mathbb{X} 18'46		evening set	1072 Oct 20 j 11:26	15° \mathbb{M} 13'08	
evening set	1071 Nov 06 j 06:25	1° \mathbb{X} 21'11		min. Earth dist.	1072 Oct 25 j 04:48	9° \mathbb{M} 46'40	0.67542 AU
	1071 Nov 07 j 16:33	30° $\mathbb{R}\mathbb{M}$		inferior conj	1072 Oct 25 j 21:34	8° \mathbb{M} 50'10	0°05'04
asc. node	1071 Nov 08 j 18:40	28° \mathbb{M} 45'37		minimum elong	1072 Oct 25 j 21:27	8° \mathbb{M} 50'35	0°05'02
inferior conj	1071 Nov 11 j 15:02	24° \mathbb{M} 59'26	0°58'05	transit middle	1072 Oct 25 j 21:27	8° \mathbb{M} 50'35	0°05'02
minimum elong	1071 Nov 11 j 13:43	25° \mathbb{M} 03'58	0°57'32	transit begin	1072 Oct 25 j 18:51	8° \mathbb{M} 59'21	
min. Earth dist.	1071 Nov 11 j 08:39	25° \mathbb{M} 21'27	0.67750 AU	transit end	1072 Oct 26 j 00:03	8° \mathbb{M} 41'50	
morning rise	1071 Nov 16 j 20:55	18° \mathbb{M} 49'38		asc. node	1072 Oct 25 j 15:42	9° \mathbb{M} 09'58	
direct	1071 Nov 21 j 06:07	17° \mathbb{M} 04'15		morning rise	1072 Oct 31 j 07:29	2° \mathbb{M} 45'30	
morning max el	1071 Nov 30 j 04:12	22° \mathbb{M} 18'22	21°40'07	direct	1072 Nov 04 j 03:24	1° \mathbb{M} 21'38	
	1071 Dec 06 j 18:17	0° \mathbb{X}		morning max el	1072 Nov 12 j 00:55	5° \mathbb{M} 54'48	20°24'13
desc. node	1071 Dec 17 j 16:41	15° \mathbb{X} 12'59			1072 Nov 29 j 22:18	0° \mathbb{X}	
	1071 Dec 27 j 11:52	0° \mathbb{Z}		desc. node	1072 Dec 03 j 13:44	5° \mathbb{X} 29'19	
morning set	1072 Jan 01 j 03:05	7° \mathbb{Z} 16'40		morning set	1072 Dec 10 j 01:48	15° \mathbb{X} 27'34	
max. Earth dist.	1072 Jan 07 j 16:08	17° \mathbb{Z} 53'57	1.41717 AU		1072 Dec 19 j 07:21	0° \mathbb{Z}	
	1072 Jan 14 j 19:12	0° \approx		max. Earth dist.	1072 Dec 19 j 23:12	1° \mathbb{Z} 03'40	1.43455 AU
superior conj	1072 Jan 15 j 06:26	0° \approx 48'53	-2°03'35	superior conj	1072 Dec 26 j 02:36	11° \mathbb{Z} 05'00	-1°56'39
minimum elong	1072 Jan 15 j 06:44	0° \approx 50'13	2°03'36	minimum elong	1072 Dec 25 j 21:51	10° \mathbb{Z} 45'24	1°56'25
evening rise	1072 Jan 26 j 02:35	20° \approx 20'05			1073 Jan 06 j 05:10	0° \approx	
	1072 Jan 31 j 10:06	0° \mathbb{H}		evening rise	1073 Jan 07 j 14:20	2° \approx 24'46	
asc. node	1072 Feb 04 j 17:57	7° \mathbb{H} 23'11		asc. node	1073 Jan 21 j 15:00	25° \approx 32'55	
evening max el	1072 Feb 11 j 13:13	16° \mathbb{H} 27'10	18°10'55	evening max el	1073 Jan 25 j 01:18	29° \approx 37'24	18°09'06
retrograde	1072 Feb 18 j 09:42	19° \mathbb{H} 54'50			1073 Jan 25 j 10:35	0° \mathbb{H}	
evening set	1072 Feb 21 j 00:18	19° \mathbb{H} 25'25		retrograde	1073 Jan 31 j 13:12	3° \mathbb{H} 01'58	
inferior conj	1072 Feb 27 j 20:02	14° \mathbb{H} 35'30	3°30'36	evening set	1073 Feb 03 j 08:45	2° \mathbb{H} 22'31	
minimum elong	1072 Feb 27 j 22:27	14° \mathbb{H} 29'58	3°30'17		1073 Feb 06 j 19:21	30° $\mathbb{R}\approx$	
min. Earth dist.	1072 Mar 02 j 03:30	11° \mathbb{H} 35'12	0.60349 AU	inferior conj	1073 Feb 09 j 15:50	27° \approx 12'00	3°46'12
morning rise	1072 Mar 05 j 18:34	8° \mathbb{H} 50'09		minimum elong	1073 Feb 09 j 16:08	27° \approx 11'11	3°46'12
direct	1072 Mar 12 j 10:14	6° \mathbb{H} 43'44		min. Earth dist.	1073 Feb 12 j 11:39	24° \approx 16'23	0.62429 AU
desc. node	1072 Mar 14 j 15:50	6° \mathbb{H} 57'19		morning rise	1073 Feb 15 j 22:23	21° \approx 13'40	
morning max el	1072 Mar 26 j 16:45	14° \mathbb{H} 33'53	27°33'14	direct	1073 Feb 22 j 21:35	18° \approx 38'23	
	1072 Apr 08 j 03:33	0° \mathbb{Y}		desc. node	1073 Mar 01 j 12:53	20° \approx 39'16	
	1072 Apr 25 j 09:32	0° \mathbb{B}		morning max el	1073 Mar 08 j 21:44	26° \approx 32'26	27°48'30
morning set	1072 Apr 27 j 12:59	4° \mathbb{B} 22'28			1073 Mar 12 j 03:44	0° \mathbb{H}	
asc. node	1072 May 02 j 17:14	15° \mathbb{B} 23'55			1073 Apr 01 j 17:13	0° \mathbb{Y}	
max. Earth dist.	1072 May 03 j 21:14	17° \mathbb{B} 56'47	1.32289 AU	morning set	1073 Apr 11 j 15:08	18° \mathbb{Y} 44'31	
				max. Earth dist.	1073 Apr 17 j 05:52	0° \mathbb{B} 29'11	1.32663 AU
superior conj	1072 May 04 j 17:49	19° \mathbb{B} 49'32	0°21'18		1073 Apr 17 j 00:26	0° \mathbb{B}	
minimum elong	1072 May 04 j 16:52	19° \mathbb{B} 44'19	0°21'05	superior conj	1073 Apr 19 j 03:20	4° \mathbb{B} 34'32	-0°04'50
	1072 May 09 j 09:29	0° \mathbb{I}		minimum elong	1073 Apr 19 j 03:33	4° \mathbb{B} 35'46	0°04'48
evening rise	1072 May 11 j 14:52	4° \mathbb{I} 45'53		behind sun begin	1073 Apr 18 j 22:36	4° \mathbb{B} 08'53	
	1072 May 25 j 00:50	0° \mathbb{E}		behind sun end	1073 Apr 19 j 08:31	5° \mathbb{B} 02'40	
evening max el	1072 Jun 07 j 22:26	18° \mathbb{E} 00'48	25°32'03	asc. node	1073 Apr 19 j 14:16	5° \mathbb{B} 33'54	
desc. node	1072 Jun 10 j 15:05	20° \mathbb{E} 23'07		evening rise	1073 Apr 26 j 02:37	19° \mathbb{B} 38'46	
retrograde	1072 Jun 21 j 23:18	25° \mathbb{E} 10'28			1073 May 01 j 04:19	0° \mathbb{I}	
evening set	1072 Jun 27 j 18:21	23° \mathbb{E} 51'27		evening max el	1073 May 20 j 13:11	28° \mathbb{I} 43'18	24°02'38
min. Earth dist.	1072 Jul 02 j 10:35	21° \mathbb{E} 09'46	0.58175 AU		1073 May 21 j 22:29	0° \mathbb{E}	
inferior conj	1072 Jul 05 j 15:30	18° \mathbb{E} 54'06	-4°52'12	desc. node	1073 May 28 j 12:06	4° \mathbb{E} 21'55	
minimum elong	1072 Jul 05 j 15:06	18° \mathbb{E} 54'48	4°52'11	retrograde	1073 Jun 03 j 08:31	5° \mathbb{E} 39'39	
morning rise	1072 Jul 13 j 14:22	14° \mathbb{E} 35'44		evening set	1073 Jun 07 j 17:52	4° \mathbb{E} 57'01	
direct	1072 Jul 16 j 03:02	14° \mathbb{E} 15'48		min. Earth dist.	1073 Jun 14 j 00:08	1° \mathbb{E} 55'11	0.56403 AU
morning max el	1072 Jul 24 j 13:25	18° \mathbb{E} 14'40	18°48'40	inferior conj	1073 Jun 16 j 11:26	0° \mathbb{E} 23'38	-4°27'52
asc. node	1072 Jul 29 j 16:28	24° \mathbb{E} 24'21		minimum elong	1073 Jun 16 j 05:59	0° \mathbb{E} 32'05	4°27'03
	1072 Aug 02 j 05:35	0° \mathbb{Q}			1073 Jun 17 j 02:43	30° $\mathbb{R}\mathbb{I}$	
morning set	1072 Aug 10 j 00:57	14° \mathbb{Q} 32'17		morning rise	1073 Jun 24 j 20:50	26° \mathbb{I} 23'37	
	1072 Aug 17 j 23:31	0° \mathbb{P}		direct	1073 Jun 27 j 13:01	26° \mathbb{I} 04'57	
superior conj	1072 Aug 18 j 14:44	1° \mathbb{P} 12'24	1°42'37		1073 Jul 06 j 15:43	0° \mathbb{E}	
minimum elong	1072 Aug 18 j 16:36	1° \mathbb{P} 21'12	1°42'32	morning max el	1073 Jul 07 j 08:48	0° \mathbb{E} 38'19	19°47'34
max. Earth dist.	1072 Aug 25 j 14:35	14° \mathbb{P} 04'01	1.39217 AU	asc. node	1073 Jul 16 j 13:31	12° \mathbb{E} 49'08	
evening rise	1072 Aug 29 j 13:52	20° \mathbb{P} 58'46		morning set	1073 Jul 25 j 03:32	28° \mathbb{E} 59'52	
	1072 Sep 04 j 00:12	0° \mathbb{U}			1073 Jul 25 j 15:27	0° \mathbb{Q}	
desc. node	1072 Sep 06 j 14:27	4° \mathbb{U} 08'34					

superior conj	1073 Aug 02 j 00:46	14°♎55'44	1°46'24	minimum elong	1074 Jul 16 j 20:00	29°♊04'47	1°42'20
minimum elong	1073 Aug 02 j 00:44	14°♎55'33	1°46'23		1074 Jul 17 j 06:43	0°♎	
max. Earth dist.	1073 Aug 07 j 18:46	26°♎03'26	1.37228 AU	max. Earth dist.	1074 Jul 21 j 04:43	7°♎55'27	1.35477 AU
	1073 Aug 09 j 21:44	0°♎		evening rise	1074 Jul 25 j 10:15	16°♎07'01	
evening rise	1073 Aug 11 j 14:26	3°♎04'44			1074 Aug 02 j 03:54	0°♎	
desc. node	1073 Aug 24 j 11:27	24°♎34'09		desc. node	1074 Aug 11 j 08:28	14°♎42'22	
	1073 Aug 28 j 01:34	0°♎			1074 Aug 22 j 12:40	0°♎	
evening max el	1073 Sep 16 j 10:06	24°♎33'04	25°30'56	evening max el	1074 Aug 29 j 22:07	8°♎10'31	26°32'02
	1073 Sep 23 j 08:48	0°♎		retrograde	1074 Sep 11 j 18:51	15°♎23'18	
retrograde	1073 Sep 28 j 13:20	1°♎31'11		evening set	1074 Sep 18 j 07:46	12°♎41'54	
	1073 Oct 03 j 05:32	30°♎		min. Earth dist.	1074 Sep 22 j 09:43	8°♎27'31	0.66129 AU
evening set	1073 Oct 04 j 12:32	29°♎00'59		inferior conj	1074 Sep 24 j 01:03	6°♎29'01	-1°48'12
min. Earth dist.	1073 Oct 08 j 21:57	24°♎09'47	0.67006 AU	minimum elong	1074 Sep 24 j 03:52	6°♎20'29	1°47'04
inferior conj	1073 Oct 10 j 01:32	22°♎41'02	-0°50'53	asc. node	1074 Sep 29 j 09:45	1°♎05'43	
minimum elong	1073 Oct 10 j 02:50	22°♎36'51	0°50'19	morning rise	1074 Sep 30 j 00:28	0°♎43'22	
asc. node	1073 Oct 12 j 12:43	19°♎38'49			1074 Oct 01 j 22:11	30°♎	
morning rise	1073 Oct 15 j 17:21	16°♎44'21		direct	1074 Oct 02 j 23:49	29°♎53'34	
direct	1073 Oct 19 j 01:54	15°♎39'16			1074 Oct 04 j 01:41	0°♎	
morning max el	1073 Oct 26 j 05:21	19°♎41'11	19°21'53	morning max el	1074 Oct 09 j 16:14	3°♎34'30	18°35'07
	1073 Nov 03 j 09:00	0°♎			1074 Oct 27 j 20:48	0°♎	
morning set	1073 Nov 19 j 02:05	23°♎52'25		morning set	1074 Oct 30 j 01:23	3°♎30'11	
desc. node	1073 Nov 20 j 10:45	25°♎59'18		desc. node	1074 Nov 07 j 07:46	16°♎38'40	
	1073 Nov 23 j 00:37	0°♎					
max. Earth dist.	1073 Dec 02 j 13:30	14°♎57'13	1.44629 AU	superior conj	1074 Nov 14 j 22:27	28°♎37'54	-0°49'03
				minimum elong	1074 Nov 14 j 16:12	28°♎13'20	0°48'16
superior conj	1073 Dec 05 j 20:38	20°♎11'11	-1°31'14	max. Earth dist.	1074 Nov 15 j 07:54	29°♎15'02	1.45096 AU
minimum elong	1073 Dec 05 j 12:07	19°♎37'18	1°30'24		1074 Nov 15 j 19:21	0°♎	
	1073 Dec 11 j 23:08	0°♎		evening rise	1074 Nov 30 j 21:11	23°♎47'28	
evening rise	1073 Dec 20 j 05:27	13°♎34'53			1074 Dec 04 j 18:51	0°♎	
	1073 Dec 30 j 04:09	0°♎		greatest brilliancy	1074 Dec 09 j 13:04	7°♎32'45	-0.8m
evening max el	1074 Jan 08 j 13:40	12°♎58'12	18°26'02	evening max el	1074 Dec 22 j 23:49	26°♎24'33	19°00'45
asc. node	1074 Jan 08 j 12:01	12°♎54'00		asc. node	1074 Dec 26 j 09:02	29°♎13'07	
retrograde	1074 Jan 15 j 02:15	16°♎32'24			1074 Dec 28 j 00:34	0°♎	
evening set	1074 Jan 18 j 02:54	15°♎42'03		retrograde	1074 Dec 29 j 21:01	0°♎19'06	
inferior conj	1074 Jan 24 j 00:44	10°♎12'18	3°41'27		1074 Dec 31 j 16:35	30°♎	
minimum elong	1074 Jan 23 j 23:22	10°♎16'16	3°41'20	evening set	1075 Jan 02 j 03:43	29°♎16'48	
min. Earth dist.	1074 Jan 26 j 05:19	7°♎40'29	0.64248 AU	inferior conj	1075 Jan 07 j 19:08	23°♎30'11	3°21'53
morning rise	1074 Jan 29 j 19:16	4°♎06'17		minimum elong	1075 Jan 07 j 16:47	23°♎37'36	3°21'27
direct	1074 Feb 05 j 16:25	1°♎16'15		min. Earth dist.	1075 Jan 09 j 08:25	21°♎33'14	0.65697 AU
desc. node	1074 Feb 16 j 09:56	6°♎26'56		morning rise	1075 Jan 13 j 05:33	17°♎19'31	
morning max el	1074 Feb 19 j 06:27	9°♎06'42	27°27'36	direct	1075 Jan 19 j 17:51	14°♎29'00	
	1074 Mar 07 j 13:51	0°♎		morning max el	1075 Feb 01 j 16:19	22°♎05'39	26°35'53
	1074 Mar 25 j 00:44	0°♎		desc. node	1075 Feb 03 j 06:59	23°♎46'08	
morning set	1074 Mar 26 j 09:27	2°♎39'32			1075 Feb 08 j 15:09	0°♎	
max. Earth dist.	1074 Mar 31 j 07:11	12°♎35'21	1.33453 AU		1075 Feb 28 j 19:20	0°♎	
				morning set	1075 Mar 09 j 16:24	15°♎56'17	
superior conj	1074 Apr 03 j 09:02	19°♎03'38	-0°32'08	max. Earth dist.	1075 Mar 13 j 21:43	24°♎07'30	1.34698 AU
minimum elong	1074 Apr 03 j 10:36	19°♎12'03	0°31'48		1075 Mar 16 j 19:45	0°♎	
asc. node	1074 Apr 06 j 11:18	25°♎40'39					
	1074 Apr 08 j 11:46	0°♎		superior conj	1075 Mar 18 j 08:41	3°♎09'32	-0°59'26
evening rise	1074 Apr 10 j 13:59	4°♎26'04		minimum elong	1075 Mar 18 j 11:36	3°♎24'35	0°58'54
	1074 Apr 24 j 14:07	0°♎		asc. node	1075 Mar 24 j 08:20	15°♎39'22	
evening max el	1074 May 02 j 04:46	9°♎15'39	22°26'56	evening rise	1075 Mar 25 j 23:02	19°♎00'38	
retrograde	1074 May 15 j 05:17	15°♎42'01			1075 Mar 31 j 11:10	0°♎	
desc. node	1074 May 15 j 09:07	15°♎41'58		evening max el	1075 Apr 14 j 04:08	20°♎06'44	20°58'40
evening set	1074 May 18 j 05:35	15°♎22'03		retrograde	1075 Apr 25 j 18:46	25°♎45'18	
min. Earth dist.	1074 May 26 j 12:03	11°♎47'43	0.55242 AU	evening set	1075 Apr 27 j 23:40	25°♎33'51	
inferior conj	1074 May 27 j 13:34	11°♎11'35	-3°17'01	desc. node	1075 May 02 j 06:09	24°♎13'43	
minimum elong	1074 May 27 j 05:59	11°♎22'20	3°14'54	inferior conj	1075 May 07 j 07:27	21°♎35'32	-1°27'22
morning rise	1074 Jun 05 j 08:24	7°♎19'02		minimum elong	1075 May 07 j 03:19	21°♎41'23	1°25'53
direct	1074 Jun 08 j 06:00	6°♎59'52		min. Earth dist.	1075 May 08 j 00:35	21°♎11'14	0.54959 AU
morning max el	1074 Jun 19 j 17:01	12°♎19'52	21°06'51	morning rise	1075 May 16 j 06:50	17°♎31'25	
	1074 Jul 02 j 10:29	0°♎		direct	1075 May 19 j 15:34	17°♎06'59	
asc. node	1074 Jul 03 j 10:33	1°♎49'59		morning max el	1075 Jun 01 j 14:52	23°♎19'27	22°42'13
morning set	1074 Jul 09 j 11:11	13°♎43'56			1075 Jun 07 j 13:23	0°♎	
				asc. node	1075 Jun 20 j 07:36	21°♎16'50	
superior conj	1074 Jul 16 j 21:26	29°♎12'08	1°42'24	morning set	1075 Jun 23 j 21:48	28°♎37'13	

	1075 Jun 24 j 13:34	0°☿			1076 May 08 j 11:36	0°♄		
				morning max el	1076 May 13 j 06:22	3°♄51'50	24°23'49	
superior conj	1075 Jul 01 j 01:18	13°☿50'06	1°32'13		1076 May 31 j 14:34	0°♄		
minimum elong	1075 Jun 30 j 23:05	13°☿38'19	1°32'00	asc. node	1076 Jun 06 j 04:40	11°♄02'41		
max. Earth dist.	1075 Jul 03 j 23:29	19°☿59'18	1.34080 AU	morning set	1076 Jun 07 j 09:39	13°♄34'18		
evening rise	1075 Jul 08 j 20:31	29°☿51'45						
	1075 Jul 08 j 22:12	0°♄		superior conj	1076 Jun 14 j 09:48	28°♄41'23	1°17'04	
	1075 Jul 26 j 05:21	0°♄		minimum elong	1076 Jun 14 j 07:21	28°♄28'07	1°16'43	
desc. node	1075 Jul 29 j 05:28	4°♄24'41			1076 Jun 15 j 00:19	0°☿		
evening max el	1075 Aug 12 j 09:58	21°♄37'23	27°12'31	max. Earth dist.	1076 Jun 16 j 03:00	2°☿23'54	1.33082 AU	
retrograde	1075 Aug 25 j 19:00	28°♄56'17		evening rise	1076 Jun 21 j 17:16	14°☿07'30		
evening set	1075 Sep 01 j 18:40	26°♄11'29			1076 Jun 30 j 00:44	0°♄		
min. Earth dist.	1075 Sep 05 j 13:53	22°♄33'31	0.64887 AU	desc. node	1076 Jul 15 j 02:29	23°♄30'13		
inferior conj	1075 Sep 07 j 17:53	20°♄09'37	-2°44'47		1076 Jul 20 j 08:37	0°♄		
minimum elong	1075 Sep 07 j 22:06	19°♄57'56	2°43'19	evening max el	1076 Jul 24 j 20:19	4°♄42'19	27°25'41	
morning rise	1075 Sep 14 j 02:23	14°♄38'05		retrograde	1076 Aug 07 j 13:11	12°♄00'56		
asc. node	1075 Sep 16 j 06:48	14°♄01'14		evening set	1076 Aug 14 j 18:01	9°♄24'14		
direct	1075 Sep 16 j 18:53	13°♄59'53		min. Earth dist.	1076 Aug 18 j 08:39	6°♄18'25	0.63288 AU	
morning max el	1075 Sep 23 j 07:07	17°♄29'06	18°05'03	inferior conj	1076 Aug 21 j 01:24	3°♄37'01	-3°37'35	
	1075 Oct 02 j 10:16	0°♄		minimum elong	1076 Aug 21 j 06:27	3°♄24'24	3°36'11	
morning set	1075 Oct 11 j 05:40	14°♄33'22			1076 Aug 25 j 01:12	30°♄		
	1075 Oct 20 j 14:31	0°♄		morning rise	1076 Aug 27 j 20:07	28°♄22'44		
				direct	1076 Aug 30 j 08:21	27°♄52'42		
superior conj	1075 Oct 25 j 05:05	7°♄24'47	-0°00'05	asc. node	1076 Sep 02 j 03:53	28°♄31'11		
minimum elong	1075 Oct 25 j 05:04	7°♄24'43	0°00'05		1076 Sep 04 j 12:14	0°♄		
behind sun begin	1075 Oct 24 j 18:35	6°♄42'49		morning max el	1076 Sep 05 j 23:09	1°♄18'24	17°52'32	
behind sun end	1075 Oct 25 j 15:33	8°♄06'33		morning set	1076 Sep 22 j 10:52	26°♄48'25		
desc. node	1075 Oct 25 j 04:49	7°♄23'43			1076 Sep 24 j 06:41	0°♄		
max. Earth dist.	1075 Oct 29 j 02:39	13°♄36'10	1.44818 AU					
	1075 Nov 08 j 14:30	0°♄		superior conj	1076 Oct 04 j 10:06	17°♄19'14	0°43'49	
evening rise	1075 Nov 10 j 15:31	3°♄09'44		minimum elong	1076 Oct 04 j 14:15	17°♄36'25	0°43'16	
greatest brilliancy	1075 Nov 24 j 03:19	23°♄46'31	-0.7m	max. Earth dist.	1076 Oct 10 j 18:56	27°♄43'19	1.43849 AU	
	1075 Nov 28 j 09:50	0°♄		desc. node	1076 Oct 11 j 01:49	28°♄10'53		
evening max el	1075 Dec 06 j 05:49	9°♄53'21	19°51'41		1076 Oct 12 j 05:06	0°♄		
asc. node	1075 Dec 13 j 06:04	14°♄15'29		evening rise	1076 Oct 19 j 23:15	12°♄09'52		
retrograde	1075 Dec 13 j 18:29	14°♄16'59			1076 Oct 31 j 18:15	0°♄		
evening set	1075 Dec 17 j 08:47	13°♄01'20		evening max el	1076 Nov 18 j 06:26	23°♄22'53	20°56'23	
inferior conj	1075 Dec 22 j 20:05	7°♄00'42	2°51'20	retrograde	1076 Nov 26 j 16:10	28°♄21'42		
minimum elong	1075 Dec 22 j 17:23	7°♄09'42	2°50'35	asc. node	1076 Nov 29 j 03:08	27°♄47'46		
min. Earth dist.	1075 Dec 23 j 19:25	5°♄43'11	0.66748 AU	evening set	1076 Nov 30 j 16:01	26°♄50'57		
morning rise	1075 Dec 28 j 01:45	0°♄47'43		inferior conj	1076 Dec 06 j 01:05	20°♄39'31	2°12'18	
	1075 Dec 29 j 00:40	30°♄		minimum elong	1076 Dec 05 j 22:35	20°♄48'06	2°11'27	
direct	1076 Jan 03 j 01:13	28°♄08'06		min. Earth dist.	1076 Dec 06 j 12:02	20°♄01'56	0.67419 AU	
	1076 Jan 08 j 16:30	0°♄		morning rise	1076 Dec 11 j 04:56	14°♄26'11		
morning max el	1076 Jan 15 j 01:20	5°♄17'07	25°22'05	direct	1076 Dec 16 j 13:39	12°♄05'12		
desc. node	1076 Jan 21 j 04:01	12°♄10'22		morning max el	1076 Dec 27 j 09:42	18°♄32'58	23°56'13	
	1076 Feb 03 j 03:02	0°♄			1077 Jan 06 j 01:00	0°♄		
morning set	1076 Feb 20 j 07:21	28°♄21'49		desc. node	1077 Jan 07 j 01:04	1°♄20'07		
	1076 Feb 21 j 04:58	0°♄			1077 Jan 26 j 05:54	0°♄		
max. Earth dist.	1076 Feb 24 j 00:32	5°♄12'50	1.36387 AU	morning set	1077 Feb 01 j 00:12	9°♄38'28		
				max. Earth dist.	1077 Feb 04 j 19:53	16°♄19'04	1.38418 AU	
superior conj	1076 Feb 29 j 23:36	16°♄45'05	-1°25'03					
minimum elong	1076 Mar 01 j 03:30	17°♄04'27	1°24'29	superior conj	1077 Feb 12 j 02:07	29°♄40'02	-1°46'33	
	1076 Mar 07 j 12:57	0°♄		minimum elong	1077 Feb 12 j 06:05	29°♄58'52	1°46'11	
evening rise	1076 Mar 09 j 03:42	3°♄16'32			1077 Feb 12 j 06:20	0°♄		
asc. node	1076 Mar 10 j 05:24	5°♄25'57		evening rise	1077 Feb 21 j 01:21	17°♄05'58		
	1076 Mar 25 j 02:16	0°♄		asc. node	1077 Feb 25 j 02:27	24°♄54'40		
evening max el	1076 Mar 26 j 15:03	1°♄35'18	19°46'22		1077 Feb 27 j 20:58	0°♄		
retrograde	1076 Apr 05 j 12:10	6°♄20'39		evening max el	1077 Mar 09 j 12:47	13°♄42'25	18°53'29	
evening set	1076 Apr 07 j 13:38	6°♄09'08		retrograde	1077 Mar 17 j 20:43	17°♄44'36		
inferior conj	1076 Apr 16 j 07:45	2°♄07'17	0°31'05	evening set	1077 Mar 20 j 02:47	17°♄28'05		
minimum elong	1076 Apr 16 j 09:06	2°♄05'11	0°30'36	inferior conj	1077 Mar 28 j 01:41	13°♄10'37	2°07'29	
desc. node	1076 Apr 18 j 03:11	0°♄59'49		minimum elong	1077 Mar 28 j 05:45	13°♄03'19	2°06'18	
min. Earth dist.	1076 Apr 18 j 14:49	0°♄42'03	0.55646 AU	min. Earth dist.	1077 Mar 31 j 07:04	10°♄52'46	0.57144 AU	
	1076 Apr 19 j 19:07	30°♄		morning rise	1077 Apr 05 j 05:39	8°♄04'02		
morning rise	1076 Apr 25 j 02:07	27°♄34'06		desc. node	1077 Apr 05 j 00:14	8°♄09'50		
direct	1076 Apr 29 j 07:57	26°♄54'04		direct	1077 Apr 10 j 13:55	6°♄55'20		

morning max el	1077 Apr 24 j 21:21	14° Υ 22'30	25°57'22		1078 Apr 11 j 01:14	0° Υ	
	1077 May 07 j 07:36	0° B			1078 Apr 30 j 13:47	0° B	
morning set	1077 May 22 j 21:07	28° B 29'55		morning set	1078 May 07 j 06:29	13° B 18'00	
	1077 May 23 j 14:09	0° II		asc. node	1078 May 10 j 22:46	21° B 08'31	
asc. node	1077 May 24 j 01:44	1° II 01'42					
				superior conj	1078 May 14 j 08:37	28° B 36'25	0°35'25
superior conj	1077 May 29 j 20:52	13° II 39'03	0°57'53	minimum elong	1078 May 14 j 07:07	28° B 28'09	0°35'06
minimum elong	1077 May 29 j 18:40	13° II 27'04	0°57'29	max. Earth dist.	1078 May 14 j 01:26	27° B 56'52	1.32252 AU
max. Earth dist.	1077 May 30 j 12:52	15° II 06'49	1.32477 AU		1078 May 14 j 23:49	0° II	
evening rise	1077 Jun 05 j 21:16	28° II 44'18		evening rise	1078 May 21 j 05:54	13° II 33'08	
	1077 Jun 06 j 11:54	0° B			1078 May 29 j 13:51	0° B	
	1077 Jun 23 j 06:25	0° Ω		desc. node	1078 Jun 18 j 20:33	28° B 42'54	
desc. node	1077 Jul 01 j 23:30	11° Ω 43'43		evening max el	1078 Jun 19 j 02:45	28° B 57'47	26°14'53
evening max el	1077 Jul 07 j 02:49	17° Ω 12'53	27°06'47		1078 Jun 20 j 05:43	0° Ω	
retrograde	1077 Jul 21 j 00:19	24° Ω 28'12		retrograde	1078 Jul 03 j 02:48	6° Ω 09'43	
evening set	1077 Jul 28 j 01:46	22° Ω 13'00		evening set	1078 Jul 09 j 13:05	4° Ω 28'05	
min. Earth dist.	1077 Jul 31 j 17:04	19° Ω 29'32	0.61393 AU	min. Earth dist.	1078 Jul 13 j 15:35	1° Ω 51'19	0.59339 AU
inferior conj	1077 Aug 03 j 20:27	16° Ω 43'38	-4°21'34		1078 Jul 16 j 02:04	30° R B	
minimum elong	1077 Aug 04 j 01:05	16° Ω 33'24	4°20'43	inferior conj	1078 Jul 16 j 23:20	29° B 18'49	-4°48'43
morning rise	1077 Aug 11 j 02:01	11° Ω 49'41		minimum elong	1078 Jul 17 j 01:27	29° B 14'44	4°48'34
direct	1077 Aug 13 j 12:41	11° Ω 24'58		morning rise	1078 Jul 24 j 15:56	24° B 47'36	
asc. node	1077 Aug 20 j 00:56	14° Ω 26'11		direct	1078 Jul 27 j 03:31	24° B 26'12	
morning max el	1077 Aug 20 j 13:20	14° Ω 55'24	17°58'37	morning max el	1078 Aug 03 j 22:33	28° B 10'56	18°24'29
	1077 Aug 30 j 22:48	0° np			1078 Aug 05 j 16:04	0° Ω	
morning set	1077 Sep 05 j 10:48	9° np 57'38		asc. node	1078 Aug 06 j 21:59	1° Ω 30'26	
				morning set	1078 Aug 20 j 00:01	23° Ω 44'57	
superior conj	1077 Sep 15 j 18:29	28° np 34'31	1°16'11		1078 Aug 23 j 06:18	0° np	
minimum elong	1077 Sep 15 j 23:05	28° np 54'37	1°15'41				
	1077 Sep 16 j 14:05	0° B		superior conj	1078 Aug 29 j 02:30	10° np 59'35	1°36'11
max. Earth dist.	1077 Sep 23 j 07:03	11° B 22'31	1.42310 AU	minimum elong	1078 Aug 29 j 05:31	11° np 13'33	1°35'57
desc. node	1077 Sep 27 j 22:50	18° B 57'23		max. Earth dist.	1078 Sep 05 j 13:50	24° np 20'00	1.40392 AU
evening rise	1077 Sep 29 j 13:55	21° B 33'03			1078 Sep 08 j 21:52	0° B	
	1077 Oct 05 j 00:04	0° ml		evening rise	1078 Sep 10 j 00:53	1° B 52'30	
	1077 Oct 26 j 01:45	0° A		desc. node	1078 Sep 14 j 19:52	9° B 39'01	
evening max el	1077 Nov 01 j 01:33	6° A 54'00	22°11'03		1078 Sep 28 j 08:50	0° ml	
retrograde	1077 Nov 10 j 12:17	12° A 31'01		evening max el	1078 Oct 14 j 16:05	20° ml 26'59	23°30'47
evening set	1077 Nov 14 j 23:43	10° A 43'29		retrograde	1078 Oct 25 j 05:30	26° ml 41'20	
asc. node	1077 Nov 16 j 00:11	9° A 48'22		evening set	1078 Oct 30 j 06:11	24° ml 36'13	
inferior conj	1077 Nov 20 j 08:07	4° A 24'36	1°26'44	asc. node	1078 Nov 02 j 21:13	20° ml 35'40	
minimum elong	1077 Nov 20 j 06:15	4° A 31'03	1°26'01	min. Earth dist.	1078 Nov 04 j 04:28	18° ml 50'41	0.67710 AU
min. Earth dist.	1077 Nov 20 j 07:51	4° A 25'31	0.67736 AU	inferior conj	1078 Nov 04 j 15:18	18° ml 13'35	0°36'04
	1077 Nov 23 j 17:38	30° Rml		minimum elong	1078 Nov 04 j 14:28	18° ml 16'29	0°35'42
morning rise	1077 Nov 25 j 12:38	28° ml 13'03		morning rise	1078 Nov 09 j 22:41	12° ml 05'55	
direct	1077 Nov 30 j 06:17	26° ml 14'23		direct	1078 Nov 14 j 02:04	10° ml 30'00	
	1077 Dec 07 j 19:58	0° A		morning max el	1078 Nov 22 j 12:52	15° ml 25'05	21°06'23
morning max el	1077 Dec 09 j 20:22	1° A 54'24	22°28'16		1078 Dec 04 j 03:05	0° A	
desc. node	1077 Dec 24 j 22:06	21° A 02'40		desc. node	1078 Dec 11 j 19:09	11° A 08'42	
	1077 Dec 31 j 01:03	0° B		morning set	1078 Dec 22 j 22:18	28° A 09'32	
morning set	1078 Jan 12 j 13:06	19° B 32'14			1078 Dec 24 j 02:24	0° B	
max. Earth dist.	1078 Jan 17 j 16:14	28° B 04'11	1.40563 AU	max. Earth dist.	1078 Dec 30 j 19:22	10° B 45'41	1.42519 AU
	1078 Jan 18 j 19:27	0° \approx					
				superior conj	1079 Jan 06 j 22:44	22° B 40'47	-2°02'44
superior conj	1078 Jan 25 j 11:36	11° \approx 42'48	-2°00'35	minimum elong	1079 Jan 06 j 21:03	22° B 33'37	2°02'42
minimum elong	1078 Jan 25 j 13:56	11° \approx 53'16	2°00'31		1079 Jan 11 j 04:24	0° \approx	
	1078 Feb 04 j 08:22	0° H		evening rise	1079 Jan 18 j 10:41	12° \approx 55'15	
evening rise	1078 Feb 04 j 12:56	0° H 21'32			1079 Jan 28 j 05:31	0° H	
asc. node	1078 Feb 11 j 23:30	13° H 59'16		asc. node	1079 Jan 29 j 20:32	2° H 32'06	
evening max el	1078 Feb 20 j 18:34	26° H 20'56	18°20'41	evening max el	1079 Feb 04 j 05:12	9° H 22'08	18°07'43
retrograde	1078 Feb 28 j 00:30	29° H 56'32		retrograde	1079 Feb 10 j 20:51	12° H 47'03	
evening set	1078 Mar 02 j 12:14	29° H 32'11		evening set	1079 Feb 13 j 13:33	12° H 13'28	
inferior conj	1078 Mar 09 j 16:53	24° H 54'04	3°09'36	inferior conj	1079 Feb 20 j 03:25	7° H 14'19	3°40'08
minimum elong	1078 Mar 09 j 20:23	24° H 46'40	3°08'56	minimum elong	1079 Feb 20 j 04:55	7° H 10'38	3°40'01
min. Earth dist.	1078 Mar 13 j 03:16	22° H 02'29	0.59130 AU	min. Earth dist.	1079 Feb 23 j 06:30	4° H 13'24	0.61252 AU
morning rise	1078 Mar 17 j 02:04	19° H 20'14		morning rise	1079 Feb 26 j 18:41	1° H 22'26	
desc. node	1078 Mar 22 j 21:17	17° H 35'34			1079 Mar 01 j 05:31	30° $\text{R}\approx$	
direct	1078 Mar 23 j 08:49	17° H 34'57		direct	1079 Mar 05 j 14:38	29° \approx 02'38	
morning max el	1078 Apr 06 j 16:57	25° H 18'23	27°07'48	desc. node	1079 Mar 09 j 18:19	29° \approx 49'53	

	1079 Mar 10 j 04:49	0° H		direct	1080 Feb 16 j 05:24	11° \approx 16'29	
morning max el	1079 Mar 19 j 19:04	6° H 54'59 27°44'26		desc. node	1080 Feb 24 j 15:21	14° \approx 29'51	
	1079 Apr 06 j 06:35	0° Y		morning max el	1080 Mar 01 j 02:12	19° \approx 10'58	27°43'47
morning set	1079 Apr 21 j 11:56	27° Y 52'21			1080 Mar 10 j 07:02	0° H	
	1079 Apr 22 j 12:38	0° B			1080 Mar 29 j 04:15	0° Y	
max. Earth dist.	1079 Apr 27 j 12:47	10° B 40'46 1.32401 AU		morning set	1080 Apr 04 j 11:07	12° Y 04'16	
asc. node	1079 Apr 27 j 19:48	11° B 18'56		max. Earth dist.	1080 Apr 09 j 18:44	23° Y 03'11 1.32945 AU	
superior conj	1079 Apr 28 j 19:27	13° B 27'58 0°10'26		superior conj	1080 Apr 12 j 03:34	28° Y 06'52 -0°16'20	
minimum elong	1079 Apr 28 j 18:59	13° B 25'21 0°10'19		minimum elong	1080 Apr 12 j 04:21	28° Y 11'07 0°16'10	
behind sun begin	1079 Apr 28 j 15:05	13° B 04'07			1080 Apr 13 j 00:33	0° B	
behind sun end	1079 Apr 28 j 22:52	13° B 46'36		asc. node	1080 Apr 13 j 16:50	1° B 27'58	
evening rise	1079 May 05 j 17:05	28° B 26'47		evening rise	1080 Apr 19 j 04:52	13° B 17'45	
	1079 May 06 j 10:45	0° II			1080 Apr 27 j 16:12	0° II	
	1079 May 23 j 09:23	0° E		evening max el	1080 May 12 j 09:42	20° II 31'22 23°21'42	
evening max el	1079 May 31 j 19:42	9° E 57'54 24°55'42		desc. node	1080 May 22 j 14:34	26° II 52'19	
desc. node	1079 Jun 05 j 17:33	13° E 57'55		retrograde	1080 May 25 j 23:24	27° II 18'09	
retrograde	1079 Jun 14 j 19:09	17° E 03'46		evening set	1080 May 29 j 17:28	26° II 47'12	
evening set	1079 Jun 20 j 00:59	16° E 00'58		min. Earth dist.	1080 Jun 05 j 19:45	23° II 32'47 0.55812 AU	
min. Earth dist.	1079 Jun 25 j 07:07	13° E 12'36 0.57369 AU		inferior conj	1080 Jun 07 j 18:28	22° II 23'43 -4°03'36	
inferior conj	1079 Jun 28 j 06:52	11° E 13'31 -4°47'08		minimum elong	1080 Jun 07 j 11:29	22° II 34'05 4°02'09	
minimum elong	1079 Jun 28 j 04:17	11° E 17'49 4°46'58		morning rise	1080 Jun 16 j 08:10	18° II 28'48	
morning rise	1079 Jul 06 j 10:19	7° E 04'13		direct	1080 Jun 19 j 01:58	18° II 10'25	
direct	1079 Jul 09 j 00:26	6° E 44'56		morning max el	1080 Jun 29 j 14:35	23° II 02'37 20°19'02	
morning max el	1079 Jul 17 j 23:47	10° E 56'20 19°11'12			1080 Jul 05 j 12:52	0° E	
asc. node	1079 Jul 24 j 19:01	19° E 29'26		asc. node	1080 Jul 10 j 16:03	8° E 10'27	
	1079 Jul 30 j 19:56	0° O		morning set	1080 Jul 18 j 03:33	22° E 34'37	
morning set	1079 Aug 03 j 22:34	7° O 59'52			1080 Jul 21 j 18:15	0° O	
superior conj	1079 Aug 12 j 04:32	24° O 18'42 1°45'17		superior conj	1080 Jul 25 j 19:32	8° O 17'17 1°45'32	
minimum elong	1079 Aug 12 j 05:32	24° O 23'34 1°45'15		minimum elong	1080 Jul 25 j 18:50	8° O 13'45 1°45'32	
	1079 Aug 15 j 03:56	0° np		max. Earth dist.	1080 Jul 30 j 22:40	18° O 25'21 1.36437 AU	
max. Earth dist.	1079 Aug 18 j 17:10	6° np 34'36 1.38350 AU		evening rise	1080 Aug 03 j 21:35	25° O 51'36	
evening rise	1079 Aug 22 j 12:17	13° np 20'23			1080 Aug 06 j 04:27	0° np	
desc. node	1079 Sep 01 j 16:53	0° u 11'42		desc. node	1080 Aug 18 j 13:53	20° np 30'28	
	1079 Sep 01 j 13:54	0° u			1080 Aug 25 j 01:30	0° u	
	1079 Sep 23 j 08:47	0° ml		evening max el	1080 Sep 08 j 15:50	17° u 41'21 25°59'05	
evening max el	1079 Sep 27 j 04:08	4° ml 02'57 24°49'16		retrograde	1080 Sep 21 j 03:33	24° u 47'51	
retrograde	1079 Oct 08 j 18:51	10° ml 48'35		evening set	1080 Sep 27 j 08:40	22° u 12'08	
evening set	1079 Oct 14 j 09:46	8° ml 26'36		min. Earth dist.	1080 Oct 01 j 14:47	17° u 36'21 0.66665 AU	
min. Earth dist.	1079 Oct 18 j 23:33	3° ml 15'07 0.67354 AU		inferior conj	1080 Oct 02 j 23:16	15° u 54'24 -1°15'08	
inferior conj	1079 Oct 19 j 20:57	2° ml 04'15 -0°18'23		minimum elong	1080 Oct 03 j 01:13	15° u 48'17 1°14'20	
minimum elong	1079 Oct 19 j 21:24	2° ml 02'45 0°18'11		asc. node	1080 Oct 06 j 15:16	11° u 42'10	
asc. node	1079 Oct 20 j 18:15	0° ml 54'17		morning rise	1080 Oct 08 j 18:06	10° u 01'57	
	1079 Oct 21 j 11:15	30° R u		direct	1080 Oct 11 j 22:22	9° u 03'58	
morning rise	1079 Oct 25 j 09:10	26° u 02'51		morning max el	1080 Oct 18 j 20:28	12° u 56'15 19°00'02	
direct	1079 Oct 28 j 23:55	24° u 47'35			1080 Oct 31 j 09:37	0° ml	
morning max el	1079 Nov 05 j 13:02	29° u 06'19 19°55'56		morning set	1080 Nov 10 j 02:45	15° ml 08'26	
	1079 Nov 06 j 09:38	0° ml		desc. node	1080 Nov 14 j 13:11	22° ml 05'42	
	1079 Nov 27 j 16:21	0° x			1080 Nov 19 j 14:13	0° x	
desc. node	1079 Nov 28 j 16:10	1° x 31'17		max. Earth dist.	1080 Nov 24 j 21:39	8° x 20'23 1.44910 AU	
morning set	1079 Dec 01 j 18:28	6° x 17'20		superior conj	1080 Nov 26 j 16:39	11° x 09'47 -1°14'59	
max. Earth dist.	1079 Dec 13 j 05:46	24° x 16'08 1.44029 AU		minimum elong	1080 Nov 26 j 08:15	10° x 36'41 1°14'04	
	1079 Dec 16 j 19:29	0° Z			1080 Dec 08 j 11:50	0° Z	
superior conj	1079 Dec 18 j 07:24	2° Z 25'34 -1°48'13		evening rise	1080 Dec 11 j 19:34	5° Z 23'40	
minimum elong	1079 Dec 18 j 00:35	1° Z 57'52 1°47'43			1080 Dec 27 j 08:31	0° \approx	
evening rise	1079 Dec 31 j 14:12	24° Z 37'58		evening max el	1081 Jan 01 j 05:26	6° \approx 01'41 18°38'43	
	1080 Jan 03 j 17:25	0° \approx		asc. node	1081 Jan 02 j 14:35	7° \approx 19'41	
asc. node	1080 Jan 16 j 17:33	20° \approx 22'50		retrograde	1081 Jan 07 j 20:52	9° \approx 43'19	
evening max el	1080 Jan 18 j 17:41	22° \approx 37'31 18°14'00		evening set	1081 Jan 10 j 23:52	8° \approx 48'12	
retrograde	1080 Jan 25 j 05:01	26° \approx 05'07		inferior conj	1081 Jan 16 j 18:42	3° \approx 11'15 3°34'42	
evening set	1080 Jan 28 j 02:32	25° \approx 21'19		minimum elong	1081 Jan 16 j 16:49	3° \approx 16'53 3°34'27	
inferior conj	1080 Feb 03 j 05:18	20° \approx 02'23 3°46'19		min. Earth dist.	1081 Jan 18 j 16:47	0° \approx 53'00 0.64916 AU	
minimum elong	1080 Feb 03 j 04:49	20° \approx 03'42 3°46'18			1081 Jan 19 j 11:06	30° R Z	
min. Earth dist.	1080 Feb 05 j 18:51	17° \approx 14'47 0.63239 AU		morning rise	1081 Jan 22 j 09:20	27° Z 02'54	
morning rise	1080 Feb 09 j 06:13	13° \approx 59'58		direct	1081 Jan 29 j 03:30	24° Z 10'38	

	1081 Feb 09 j 10:35	0°♊		min. Earth dist.	1082 Jan 01 j 23:23	14°♊54'04	0.66198 AU
desc. node	1081 Feb 10 j 12:24	1°♊00'13		morning rise	1082 Jan 06 j 00:15	10°♊22'52	
morning max el	1081 Feb 11 j 11:38	1°♊57'12	27°08'45	direct	1082 Jan 12 j 07:36	7°♊35'41	
	1081 Mar 04 j 11:19	0°♋		morning max el	1082 Jan 24 j 21:02	15°♊01'40	26°06'34
morning set	1081 Mar 19 j 01:05	25°♋44'34		desc. node	1082 Jan 28 j 09:26	18°♊49'22	
	1081 Mar 21 j 05:09	0°♌			1082 Feb 06 j 04:18	0°♊	
max. Earth dist.	1081 Mar 23 j 15:29	4°♌53'41	1.33929 AU		1082 Feb 25 j 06:34	0°♋	
				morning set	1082 Mar 02 j 01:55	8°♋41'24	
superior conj	1081 Mar 27 j 07:01	12°♌27'08	-0°43'49	max. Earth dist.	1082 Mar 06 j 00:51	16°♋12'14	1.35370 AU
minimum elong	1081 Mar 27 j 09:11	12°♌38'30	0°43'22				
asc. node	1081 Mar 31 j 13:52	21°♌31'44		superior conj	1082 Mar 11 j 03:25	26°♋21'41	-1°10'37
evening rise	1081 Apr 03 j 15:29	28°♌00'11		minimum elong	1082 Mar 11 j 06:49	26°♋38'58	1°10'03
	1081 Apr 04 j 14:31	0°♍			1082 Mar 12 j 22:07	0°♌	
	1081 Apr 23 j 00:41	0°♎		asc. node	1082 Mar 18 j 10:56	11°♌26'10	
evening max el	1081 Apr 24 j 04:00	1°♎08'53	21°47'47	evening rise	1082 Mar 18 j 22:59	12°♌28'00	
retrograde	1081 May 06 j 15:50	7°♎16'05			1082 Mar 28 j 04:12	0°♍	
evening set	1081 May 09 j 05:31	7°♎01'17		evening max el	1082 Apr 06 j 08:18	12°♍15'44	20°25'38
desc. node	1081 May 09 j 11:36	6°♎58'17		retrograde	1082 Apr 17 j 05:02	17°♍30'44	
inferior conj	1081 May 18 j 15:30	2°♎58'13	-2°33'49	evening set	1082 Apr 19 j 07:12	17°♍19'54	
minimum elong	1081 May 18 j 08:46	3°♎07'39	2°31'39	desc. node	1082 Apr 26 j 08:39	14°♍33'17	
min. Earth dist.	1081 May 18 j 08:05	3°♎08'36	0.55006 AU	inferior conj	1082 Apr 28 j 10:25	13°♍22'07	-0°36'03
	1081 May 24 j 12:25	30°♏		minimum elong	1082 Apr 28 j 08:43	13°♍24'35	0°35'27
morning rise	1081 May 27 j 13:05	29°♏02'46		min. Earth dist.	1082 Apr 29 j 21:08	12°♍31'36	0.55144 AU
direct	1081 May 30 j 14:26	28°♏42'09		morning rise	1082 May 07 j 09:01	9°♏07'30	
	1081 Jun 05 j 09:05	0°♐		direct	1082 May 11 j 01:57	8°♏37'48	
morning max el	1081 Jun 11 j 18:02	4°♐25'07	21°45'53	morning max el	1082 May 24 j 12:26	15°♏10'34	23°25'23
asc. node	1081 Jun 27 j 13:06	27°♐23'07			1082 Jun 05 j 02:51	0°♐	
	1081 Jun 28 j 21:24	0°♑		asc. node	1082 Jun 14 j 10:10	16°♐59'18	
morning set	1081 Jul 02 j 12:39	7°♑22'45		morning set	1082 Jun 17 j 00:03	22°♐18'59	
					1082 Jun 20 j 14:31	0°♑	
superior conj	1081 Jul 09 j 19:35	22°♑43'27	1°38'45				
minimum elong	1081 Jul 09 j 17:45	22°♑33'51	1°38'37	superior conj	1082 Jun 24 j 01:45	7°♑28'22	1°26'21
	1081 Jul 13 j 08:12	0°♒		minimum elong	1082 Jun 23 j 23:23	7°♑15'36	1°26'03
max. Earth dist.	1081 Jul 13 j 12:03	0°♒19'32	1.34834 AU	max. Earth dist.	1082 Jun 26 j 11:09	12°♑34'08	1.33612 AU
evening rise	1081 Jul 18 j 00:06	9°♒13'22		evening rise	1082 Jul 01 j 15:22	23°♑13'19	
	1081 Jul 29 j 16:57	0°♓			1082 Jul 05 j 02:53	0°♒	
desc. node	1081 Aug 05 j 10:54	10°♓28'28		desc. node	1082 Jul 23 j 07:57	29°♒56'56	
	1081 Aug 20 j 21:20	0°♑			1082 Jul 23 j 08:50	0°♓	
evening max el	1081 Aug 22 j 04:02	1°♑15'53	26°52'24	evening max el	1082 Aug 04 j 15:45	14°♓35'52	27°21'49
retrograde	1081 Sep 04 j 06:51	8°♑32'08		retrograde	1082 Aug 18 j 04:16	21°♓54'11	
evening set	1081 Sep 11 j 00:40	5°♑48'29		evening set	1082 Aug 25 j 07:04	19°♓11'31	
min. Earth dist.	1081 Sep 14 j 23:43	1°♑49'31	0.65636 AU	min. Earth dist.	1082 Aug 29 j 00:05	15°♓47'58	0.64253 AU
inferior conj	1081 Sep 16 j 20:14	29°♓39'45	-2°12'29	inferior conj	1082 Aug 31 j 09:29	13°♓15'43	-3°07'54
minimum elong	1081 Sep 16 j 23:41	29°♓29'40	2°11'10	minimum elong	1082 Aug 31 j 14:09	13°♓03'18	3°06'24
	1081 Sep 16 j 13:19	30°♒♓		morning rise	1082 Sep 06 j 22:12	7°♓50'57	
morning rise	1081 Sep 22 j 23:19	23°♓59'24		direct	1082 Sep 09 j 12:41	7°♓16'27	
asc. node	1081 Sep 23 j 12:20	23°♓44'07		asc. node	1082 Sep 10 j 09:23	7°♓20'17	
direct	1081 Sep 25 j 19:27	23°♓14'55		morning max el	1082 Sep 16 j 00:59	10°♓42'54	17°57'32
morning max el	1081 Oct 02 j 09:17	26°♓50'02	18°20'14		1082 Sep 29 j 03:37	0°♑	
	1081 Oct 05 j 03:45	0°♑		morning set	1082 Oct 03 j 06:05	6°♑58'54	
morning set	1081 Oct 21 j 14:27	25°♑22'52					
	1081 Oct 24 j 10:47	0°♒		superior conj	1082 Oct 16 j 08:17	28°♑47'47	0°19'43
desc. node	1081 Nov 01 j 10:12	12°♒47'26		minimum elong	1082 Oct 16 j 10:31	28°♑56'48	0°19'25
					1082 Oct 17 j 02:08	0°♒	
superior conj	1081 Nov 05 j 17:40	19°♒36'52	-0°28'22	desc. node	1082 Oct 19 j 07:14	3°♒33'28	
minimum elong	1081 Nov 05 j 13:58	19°♒22'17	0°27'52	max. Earth dist.	1082 Oct 21 j 11:06	7°♒00'16	1.44490 AU
max. Earth dist.	1081 Nov 07 j 16:30	22°♒41'16	1.45067 AU	evening rise	1082 Nov 01 j 13:22	24°♒20'07	
	1081 Nov 12 j 08:21	0°♓			1082 Nov 05 j 05:59	0°♓	
evening rise	1081 Nov 22 j 01:24	15°♓12'09			1082 Nov 26 j 02:19	0°♑	
	1081 Dec 01 j 12:43	0°♑		evening max el	1082 Nov 28 j 17:58	2°♑58'22	20°17'44
greatest brilliancy	1081 Dec 03 j 00:50	2°♑19'12	-0.8m	retrograde	1082 Dec 06 j 14:47	7°♑36'02	
evening max el	1081 Dec 15 j 14:08	19°♑29'32	19°20'37	asc. node	1082 Dec 07 j 08:41	7°♑32'54	
asc. node	1081 Dec 20 j 11:38	23°♑07'54		evening set	1082 Dec 10 j 09:01	6°♑13'56	
retrograde	1081 Dec 22 j 16:59	23°♑35'05		inferior conj	1082 Dec 15 j 19:08	0°♑08'12	2°35'39
evening set	1081 Dec 26 j 02:47	22°♑27'14		minimum elong	1082 Dec 15 j 16:27	0°♑17'16	2°34'51
inferior conj	1081 Dec 31 j 16:13	16°♑34'31	3°10'04		1082 Dec 15 j 21:34	30°♒♓	
minimum elong	1081 Dec 31 j 13:38	16°♑42'50	3°09'30	min. Earth dist.	1082 Dec 16 j 12:56	29°♓08'06	0.67080 AU

morning rise	1082 Dec 20 j 23:43	23° ♁ 55'05		morning rise	1083 Dec 05 j 05:03	7° ♁ 36'56	
direct	1082 Dec 26 j 17:02	21° ♁ 22'57		direct	1083 Dec 10 j 07:11	5° ♁ 25'27	
morning max el	1083 Jan 07 j 05:37	28° ♁ 15'07	24°46'30	morning max el	1083 Dec 20 j 14:43	11° ♁ 33'34	23°18'39
	1083 Jan 08 j 21:43	0° ♁		desc. node	1084 Jan 02 j 03:30	26° ♁ 59'05	
desc. node	1083 Jan 15 j 06:28	7° ♁ 34'17			1084 Jan 04 j 07:15	0° ♁	
	1083 Jan 30 j 22:16	0° ♁			1084 Jan 23 j 18:13	0° ♁	
morning set	1083 Feb 12 j 08:16	20° ♁ 39'19		morning set	1084 Jan 24 j 13:52	1° ♁ 22'15	
max. Earth dist.	1083 Feb 16 j 00:05	27° ♁ 15'06	1.37222 AU	max. Earth dist.	1084 Jan 28 j 19:04	8° ♁ 34'44	1.39326 AU
	1083 Feb 17 j 11:44	0° ♁					
				superior conj	1084 Feb 05 j 09:27	22° ♁ 15'07	-1°53'40
superior conj	1083 Feb 22 j 13:34	9° ♁ 41'06	-1°34'50	minimum elong	1084 Feb 05 j 12:59	22° ♁ 31'33	1°53'25
minimum elong	1083 Feb 22 j 17:39	10° ♁ 01'01	1°34'20		1084 Feb 09 j 12:09	0° ♁	
evening rise	1083 Mar 03 j 01:02	26° ♁ 33'43		evening rise	1084 Feb 14 j 18:53	10° ♁ 09'57	
	1083 Mar 04 j 18:36	0° ♁		asc. node	1084 Feb 20 j 05:04	20° ♁ 25'20	
asc. node	1083 Mar 05 j 08:00	1° ♁ 05'53			1084 Feb 25 j 22:14	0° ♁	
evening max el	1083 Mar 20 j 00:01	24° ♁ 00'50	19°21'22	evening max el	1084 Mar 02 j 01:31	6° ♁ 22'08	18°37'05
retrograde	1083 Mar 29 j 04:14	28° ♁ 26'24		retrograde	1084 Mar 09 j 21:11	10° ♁ 11'23	
evening set	1083 Mar 31 j 07:13	28° ♁ 13'11		evening set	1084 Mar 12 j 05:31	9° ♁ 51'57	
inferior conj	1083 Apr 08 j 17:19	24° ♁ 05'15	1°15'51	inferior conj	1084 Mar 19 j 20:20	5° ♁ 26'00	2°38'00
minimum elong	1083 Apr 08 j 20:17	24° ♁ 00'21	1°14'50	minimum elong	1084 Mar 20 j 00:28	5° ♁ 18'03	2°36'58
min. Earth dist.	1083 Apr 11 j 11:49	22° ♁ 16'20	0.56200 AU	min. Earth dist.	1084 Mar 23 j 05:42	2° ♁ 50'51	0.57943 AU
desc. node	1083 Apr 13 j 05:42	21° ♁ 12'29		morning rise	1084 Mar 27 j 16:26	0° ♁ 06'17	
morning rise	1083 Apr 17 j 06:31	19° ♁ 17'50			1084 Mar 27 j 21:49	30° ♁	
direct	1083 Apr 21 j 23:17	18° ♁ 27'25		desc. node	1084 Mar 30 j 02:43	29° ♁ 10'53	
morning max el	1083 May 06 j 03:04	25° ♁ 38'58	25°05'35	direct	1084 Apr 02 j 10:55	28° ♁ 42'34	
	1083 May 10 j 05:04	0° ♁			1084 Apr 08 j 02:37	0° ♁	
	1083 May 28 j 23:06	0° ♁		morning max el	1084 Apr 16 j 19:50	6° ♁ 18'36	26°30'53
morning set	1083 Jun 01 j 11:59	7° ♁ 16'27			1084 May 04 j 08:05	0° ♁	
asc. node	1083 Jun 01 j 07:14	6° ♁ 51'30		morning set	1084 May 15 j 22:46	22° ♁ 09'40	
				asc. node	1084 May 18 j 04:18	26° ♁ 54'26	
					1084 May 19 j 14:35	0° ♁	
superior conj	1083 Jun 08 j 11:36	22° ♁ 23'11	1°09'23				
minimum elong	1083 Jun 08 j 09:12	22° ♁ 10'08	1°08'59	superior conj	1084 May 22 j 23:10	7° ♁ 21'29	0°48'43
max. Earth dist.	1083 Jun 09 j 17:56	25° ♁ 08'19	1.32782 AU	minimum elong	1084 May 22 j 21:14	7° ♁ 10'49	0°48'20
	1083 Jun 12 j 00:03	0° ♁		max. Earth dist.	1084 May 23 j 05:17	7° ♁ 55'04	1.32336 AU
evening rise	1083 Jun 15 j 15:34	7° ♁ 38'59		evening rise	1084 May 29 j 21:48	22° ♁ 21'32	
	1083 Jun 27 j 14:00	0° ♁			1084 Jun 02 j 15:47	0° ♁	
desc. node	1083 Jul 10 j 04:59	18° ♁ 42'28			1084 Jun 20 j 18:13	0° ♁	
evening max el	1083 Jul 18 j 00:38	27° ♁ 26'55	27°21'33	desc. node	1084 Jun 26 j 02:01	6° ♁ 27'16	
	1083 Jul 20 j 22:29	0° ♁		evening max el	1084 Jun 29 j 04:19	9° ♁ 37'43	26°48'22
retrograde	1083 Jul 31 j 19:24	4° ♁ 44'05		retrograde	1084 Jul 13 j 03:22	16° ♁ 52'27	
evening set	1083 Aug 08 j 00:18	2° ♁ 14'33		evening set	1084 Jul 19 j 23:55	14° ♁ 50'01	
	1083 Aug 10 j 20:28	30° ♁		min. Earth dist.	1084 Jul 23 j 18:10	12° ♁ 11'41	0.60528 AU
min. Earth dist.	1083 Aug 11 j 14:14	29° ♁ 20'08	0.62520 AU	inferior conj	1084 Jul 27 j 00:38	9° ♁ 28'42	-4°35'45
inferior conj	1083 Aug 14 j 12:05	26° ♁ 34'50	-3°57'42	minimum elong	1084 Jul 27 j 04:30	9° ♁ 20'38	4°35'14
minimum elong	1083 Aug 14 j 17:09	26° ♁ 22'47	3°56'29	morning rise	1084 Aug 03 j 10:58	4° ♁ 44'34	
morning rise	1083 Aug 21 j 11:24	21° ♁ 29'05		direct	1084 Aug 05 j 21:38	4° ♁ 21'36	
direct	1083 Aug 23 j 22:43	21° ♁ 01'34		morning max el	1084 Aug 13 j 05:08	7° ♁ 56'51	18°07'08
asc. node	1083 Aug 28 j 06:26	22° ♁ 27'49		asc. node	1084 Aug 14 j 03:29	8° ♁ 53'51	
morning max el	1083 Aug 30 j 16:38	24° ♁ 27'50	17°52'49		1084 Aug 27 j 10:25	0° ♁	
	1083 Sep 04 j 04:43	0° ♁		morning set	1084 Aug 29 j 02:02	3° ♁ 04'53	
morning set	1083 Sep 15 j 19:57	19° ♁ 38'35					
	1083 Sep 21 j 15:59	0° ♁		superior conj	1084 Sep 07 j 20:08	21° ♁ 03'31	1°26'08
superior conj	1083 Sep 27 j 01:03	9° ♁ 16'53	0°59'07	minimum elong	1084 Sep 08 j 00:12	21° ♁ 21'42	1°25'44
minimum elong	1083 Sep 27 j 05:46	9° ♁ 36'50	0°58'31		1084 Sep 12 j 22:32	0° ♁	
max. Earth dist.	1083 Oct 04 j 01:56	20° ♁ 57'32	1.43252 AU	max. Earth dist.	1084 Sep 15 j 11:11	4° ♁ 17'33	1.41520 AU
desc. node	1083 Oct 06 j 04:16	24° ♁ 20'36		evening rise	1084 Sep 20 j 19:57	13° ♁ 07'29	
	1083 Oct 09 j 17:43	0° ♁		desc. node	1084 Sep 22 j 01:18	15° ♁ 05'15	
evening rise	1083 Oct 11 j 21:51	3° ♁ 24'00			1084 Oct 01 j 17:01	0° ♁	
	1083 Oct 29 j 17:35	0° ♁			1084 Oct 24 j 09:26	0° ♁	
evening max el	1083 Nov 11 j 16:02	16° ♁ 27'39	21°27'11	evening max el	1084 Oct 24 j 08:50	29° ♁ 58'30	22°44'46
retrograde	1083 Nov 20 j 12:05	21° ♁ 43'00		retrograde	1084 Nov 03 j 07:13	5° ♁ 52'31	
asc. node	1083 Nov 24 j 05:43	20° ♁ 25'28		evening set	1084 Nov 07 j 23:58	3° ♁ 57'40	
evening set	1083 Nov 24 j 16:39	20° ♁ 05'06		asc. node	1084 Nov 10 j 02:44	1° ♁ 50'38	
inferior conj	1083 Nov 30 j 01:13	13° ♁ 49'48	1°53'40		1084 Nov 11 j 14:19	30° ♁	
minimum elong	1083 Nov 29 j 22:56	13° ♁ 57'40	1°52'52	inferior conj	1084 Nov 13 j 08:30	27° ♁ 36'31	1°05'47
min. Earth dist.	1083 Nov 30 j 07:12	13° ♁ 29'05	0.67588 AU	minimum elong	1084 Nov 13 j 07:02	27° ♁ 41'36	1°05'11

min. Earth dist.	1084 Nov 13 j 03:43	27° \mathbb{M} 53'04	0.67757 AU	transit begin	1085 Oct 28 j 13:21	11° \mathbb{M} 33'17	
morning rise	1084 Nov 18 j 13:57	21° \mathbb{M} 26'05		transit end	1085 Oct 28 j 16:31	11° \mathbb{M} 22'33	
direct	1084 Nov 23 j 01:19	19° \mathbb{M} 37'13		morning rise	1085 Nov 03 j 00:27	5° \mathbb{M} 21'16	
morning max el	1084 Dec 02 j 03:26	24° \mathbb{M} 58'00	21°52'17	direct	1085 Nov 06 j 22:17	3° \mathbb{M} 54'16	
	1084 Dec 06 j 14:56	0° \mathbb{A}		morning max el	1085 Nov 14 j 22:58	8° \mathbb{M} 32'39	20°34'41
desc. node	1084 Dec 19 j 00:31	16° \mathbb{A} 52'06			1085 Dec 01 j 03:35	0° \mathbb{A}	
	1084 Dec 27 j 18:58	0° \mathbb{B}		desc. node	1085 Dec 05 j 21:34	7° \mathbb{A} 05'52	
morning set	1085 Jan 03 j 14:11	10° \mathbb{B} 40'03		morning set	1085 Dec 13 j 14:54	18° \mathbb{A} 55'23	
max. Earth dist.	1085 Jan 09 j 17:14	20° \mathbb{B} 40'17	1.41427 AU		1085 Dec 20 j 15:46	0° \mathbb{B}	
	1085 Jan 15 j 05:03	0° \approx		max. Earth dist.	1085 Dec 22 j 23:18	3° \mathbb{B} 42'56	1.43235 AU
superior conj	1085 Jan 17 j 09:59	3° \approx 50'56	-2°03'16	superior conj	1085 Dec 29 j 10:05	14° \mathbb{B} 17'54	-1°58'51
minimum elong	1085 Jan 17 j 10:53	3° \approx 54'57	2°03'14	minimum elong	1085 Dec 29 j 06:10	14° \mathbb{B} 01'31	1°58'40
evening rise	1085 Jan 28 j 00:59	23° \approx 07'47			1086 Jan 07 j 14:31	0° \approx	
	1085 Jan 31 j 18:37	0° \mathbb{H}		evening rise	1086 Jan 10 j 15:25	5° \approx 19'54	
asc. node	1085 Feb 06 j 02:05	9° \mathbb{H} 17'00		asc. node	1086 Jan 23 j 23:05	27° \approx 32'44	
evening max el	1085 Feb 13 j 09:43	19° \mathbb{H} 10'55	18°12'51		1086 Jan 25 j 19:49	0° \mathbb{H}	
retrograde	1085 Feb 20 j 08:16	22° \mathbb{H} 40'00		evening max el	1086 Jan 27 j 21:31	2° \mathbb{H} 18'45	18°08'08
evening set	1085 Feb 22 j 22:10	22° \mathbb{H} 11'55		retrograde	1086 Feb 03 j 10:00	5° \mathbb{H} 42'54	
inferior conj	1085 Mar 01 j 20:06	17° \mathbb{H} 25'10	3°25'58	evening set	1086 Feb 06 j 04:52	5° \mathbb{H} 04'55	
minimum elong	1085 Mar 01 j 22:49	17° \mathbb{H} 19'03	3°25'35	inferior conj	1086 Feb 12 j 13:34	29° \approx 57'14	3°45'18
min. Earth dist.	1085 Mar 05 j 04:43	14° \mathbb{H} 26'14	0.60032 AU	minimum elong	1086 Feb 12 j 14:11	29° \approx 55'39	3°45'16
morning rise	1085 Mar 08 j 21:20	11° \mathbb{H} 42'32			1086 Feb 12 j 12:29	30° \mathbb{R} \approx	
direct	1085 Mar 15 j 11:07	9° \mathbb{H} 41'18		min. Earth dist.	1086 Feb 15 j 11:24	26° \approx 59'39	0.62132 AU
desc. node	1085 Mar 16 j 23:44	9° \mathbb{H} 47'37		morning rise	1086 Feb 18 j 22:17	24° \approx 00'29	
morning max el	1085 Mar 29 j 18:03	17° \mathbb{H} 30'00	27°27'49	direct	1086 Feb 25 j 20:58	21° \approx 28'49	
	1085 Apr 09 j 03:25	0° \mathbb{Y}		desc. node	1086 Mar 03 j 20:45	23° \approx 07'18	
	1085 Apr 26 j 21:20	0° \mathbb{B}		morning max el	1086 Mar 11 j 22:15	29° \approx 22'20	27°48'41
morning set	1085 Apr 30 j 06:42	6° \mathbb{B} 52'24			1086 Mar 12 j 13:13	0° \mathbb{H}	
asc. node	1085 May 05 j 01:21	17° \mathbb{B} 03'11			1086 Apr 03 j 01:20	0° \mathbb{Y}	
max. Earth dist.	1085 May 06 j 17:36	20° \mathbb{B} 42'58	1.32264 AU	morning set	1086 Apr 14 j 09:45	21° \mathbb{Y} 17'32	
					1086 Apr 18 j 14:00	0° \mathbb{B}	
superior conj	1085 May 07 j 10:45	22° \mathbb{B} 17'04	0°25'05	max. Earth dist.	1086 Apr 20 j 03:04	3° \mathbb{B} 18'38	1.32579 AU
minimum elong	1085 May 07 j 09:39	22° \mathbb{B} 11'00	0°24'51				
	1085 May 10 j 23:12	0° \mathbb{I}		superior conj	1086 Apr 21 j 20:38	7° \mathbb{B} 03'39	-0°00'47
evening rise	1085 May 14 j 07:44	7° \mathbb{I} 13'03		minimum elong	1086 Apr 21 j 20:40	7° \mathbb{B} 03'51	0°00'46
	1085 May 26 j 05:52	0° \mathbb{E}		behind sun begin	1086 Apr 21 j 15:32	6° \mathbb{B} 35'55	
evening max el	1085 Jun 11 j 01:16	21° \mathbb{E} 03'19	25°44'01	behind sun end	1086 Apr 22 j 01:48	7° \mathbb{B} 31'47	
desc. node	1085 Jun 12 j 23:01	22° \mathbb{E} 46'32		asc. node	1086 Apr 21 j 22:23	7° \mathbb{B} 13'12	
retrograde	1085 Jun 25 j 02:07	28° \mathbb{E} 13'37		evening rise	1086 Apr 28 j 19:23	22° \mathbb{B} 06'12	
evening set	1085 Jul 01 j 01:30	26° \mathbb{E} 48'46			1086 May 02 j 15:12	0° \mathbb{I}	
min. Earth dist.	1085 Jul 05 j 13:39	24° \mathbb{E} 08'50	0.58471 AU		1086 May 21 j 21:14	0° \mathbb{E}	
inferior conj	1085 Jul 08 j 19:41	21° \mathbb{E} 48'15	-4°52'24	evening max el	1086 May 23 j 16:28	1° \mathbb{E} 49'40	24°16'48
minimum elong	1085 Jul 08 j 20:01	21° \mathbb{E} 47'38	4°52'25	desc. node	1086 May 30 j 20:02	7° \mathbb{E} 06'33	
morning rise	1085 Jul 16 j 16:55	17° \mathbb{E} 26'29		retrograde	1086 Jun 06 j 13:07	8° \mathbb{E} 48'49	
direct	1085 Jul 19 j 05:14	17° \mathbb{E} 06'13		evening set	1086 Jun 11 j 03:59	8° \mathbb{E} 01'18	
morning max el	1085 Jul 27 j 11:20	21° \mathbb{E} 01'07	18°41'40	min. Earth dist.	1086 Jun 17 j 03:31	5° \mathbb{E} 03'29	0.56636 AU
asc. node	1085 Aug 01 j 00:32	26° \mathbb{E} 23'23		inferior conj	1086 Jun 19 j 18:37	3° \mathbb{E} 24'22	-4°34'30
	1085 Aug 03 j 10:21	0° \mathbb{Q}		minimum elong	1086 Jun 19 j 13:53	3° \mathbb{E} 31'52	4°33'53
morning set	1085 Aug 12 j 19:42	17° \mathbb{Q} 05'26			1086 Jun 26 j 01:48	30° \mathbb{R} \mathbb{I}	
	1085 Aug 19 j 11:19	0° \mathbb{P}		morning rise	1086 Jun 28 j 02:29	29° \mathbb{I} 22'15	
				direct	1086 Jun 30 j 18:10	29° \mathbb{I} 03'24	
superior conj	1085 Aug 21 j 12:31	3° \mathbb{P} 53'41	1°41'14		1086 Jul 05 j 04:48	0° \mathbb{E}	
minimum elong	1085 Aug 21 j 14:41	4° \mathbb{P} 03'53	1°41'07	morning max el	1086 Jul 10 j 08:18	3° \mathbb{E} 30'32	19°37'27
max. Earth dist.	1085 Aug 28 j 15:51	16° \mathbb{P} 55'19	1.39525 AU	asc. node	1086 Jul 18 j 21:35	14° \mathbb{E} 41'46	
evening rise	1085 Sep 01 j 17:26	23° \mathbb{P} 56'50			1086 Jul 27 j 03:21	0° \mathbb{Q}	
	1085 Sep 05 j 08:45	0° \mathbb{L}		morning set	1086 Jul 27 j 21:21	1° \mathbb{Q} 30'06	
desc. node	1085 Sep 08 j 22:20	5° \mathbb{L} 43'56					
	1085 Sep 25 j 12:49	0° \mathbb{M}		superior conj	1086 Aug 04 j 20:38	17° \mathbb{Q} 31'12	1°46'21
evening max el	1085 Oct 06 j 22:11	13° \mathbb{M} 33'24	24°04'49	minimum elong	1086 Aug 04 j 20:52	17° \mathbb{Q} 32'18	1°46'21
retrograde	1085 Oct 17 j 22:50	20° \mathbb{M} 01'56		max. Earth dist.	1086 Aug 10 j 19:49	28° \mathbb{Q} 58'44	1.37517 AU
evening set	1085 Oct 23 j 05:24	17° \mathbb{M} 49'44			1086 Aug 11 j 09:01	0° \mathbb{P}	
asc. node	1085 Oct 27 j 23:44	12° \mathbb{M} 19'21		evening rise	1086 Aug 14 j 14:44	5° \mathbb{P} 53'13	
min. Earth dist.	1085 Oct 28 j 00:03	11° \mathbb{M} 18'16	0.67600 AU	desc. node	1086 Aug 26 j 19:21	26° \mathbb{P} 11'34	
inferior conj	1085 Oct 28 j 15:16	11° \mathbb{M} 26'49	0°13'23		1086 Aug 29 j 07:05	0° \mathbb{L}	
minimum elong	1085 Oct 28 j 14:56	11° \mathbb{M} 27'55	0°13'14	evening max el	1086 Sep 19 j 10:06	27° \mathbb{L} 11'27	25°20'26
transit middle	1085 Oct 28 j 14:56	11° \mathbb{M} 27'55	0°13'14		1086 Sep 22 j 12:48	0° \mathbb{M}	

































































































































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evening set	1086 Oct 07 j 07:14	1° \mathbb{M} 38'10		evening set	1087 Sep 21 j 03:30	15° \mathbb{Q} 20'07	
	1086 Oct 08 j 23:44	30° \mathbb{R} \mathbb{Q}		min. Earth dist.	1087 Sep 25 j 06:28	11° \mathbb{Q} 00'16	0.66281 AU
min. Earth dist.	1086 Oct 11 j 17:45	26° \mathbb{Q} 41'44	0.67112 AU	inferior conj	1087 Sep 26 j 20:03	9° \mathbb{Q} 05'49	-1°39'31
inferior conj	1086 Oct 12 j 19:44	25° \mathbb{Q} 17'31	-0°42'14	minimum elong	1087 Sep 26 j 22:38	8° \mathbb{Q} 57'54	1°38'28
minimum elong	1086 Oct 12 j 20:48	25° \mathbb{Q} 14'02	0°41'47	asc. node	1087 Oct 01 j 17:51	3° \mathbb{Q} 58'25	
asc. node	1086 Oct 14 j 20:46	22° \mathbb{Q} 43'28		morning rise	1087 Oct 02 j 18:14	3° \mathbb{Q} 18'25	
morning rise	1086 Oct 18 j 10:33	19° \mathbb{Q} 19'38		direct	1087 Oct 05 j 18:45	2° \mathbb{Q} 26'40	
direct	1086 Oct 21 j 20:41	18° \mathbb{Q} 12'00		morning max el	1087 Oct 12 j 12:28	6° \mathbb{Q} 10'14	18°41'03
morning max el	1086 Oct 29 j 02:21	22° \mathbb{Q} 17'45	19°30'13		1087 Oct 29 j 04:13	0° \mathbb{M}	
	1086 Nov 04 j 10:05	0° \mathbb{M}		morning set	1087 Nov 02 j 08:27	6° \mathbb{M} 38'20	
greatest brilliancy	1086 Nov 11 j 16:55	10° \mathbb{M} 35'04	-0.7m	desc. node	1087 Nov 09 j 15:39	18° \mathbb{M} 12'02	
morning set	1086 Nov 22 j 13:23	27° \mathbb{M} 13'49			1087 Nov 17 j 03:38	0° \mathbb{X}	
desc. node	1086 Nov 22 j 18:37	27° \mathbb{M} 34'07					
	1086 Nov 24 j 08:14	0° \mathbb{X}		superior conj	1087 Nov 18 j 10:51	2° \mathbb{X} 02'36	-0°56'11
max. Earth dist.	1086 Dec 05 j 12:56	17° \mathbb{X} 32'04	1.44495 AU	minimum elong	1087 Nov 18 j 03:50	1° \mathbb{X} 35'04	0°55'19
				max. Earth dist.	1087 Nov 18 j 06:45	1° \mathbb{X} 46'31	1.45068 AU
superior conj	1086 Dec 09 j 07:47	23° \mathbb{X} 33'37	-1°36'17	evening rise	1087 Dec 04 j 05:11	26° \mathbb{X} 59'48	
minimum elong	1086 Dec 08 j 23:32	23° \mathbb{X} 00'36	1°35'33		1087 Dec 06 j 02:14	0° \mathbb{Z}	
	1086 Dec 13 j 07:43	0° \mathbb{Z}		greatest brilliancy	1087 Dec 11 j 21:41	9° \mathbb{Z} 17'26	-0.8m
evening rise	1086 Dec 23 j 09:56	16° \mathbb{Z} 39'05		evening max el	1087 Dec 25 j 20:38	29° \mathbb{Z} 04'12	18°54'31
	1086 Dec 31 j 09:49	0° \mathbb{A}			1087 Dec 26 j 19:31	0° \mathbb{A}	
asc. node	1087 Jan 10 j 20:05	15° \mathbb{A} 02'11		asc. node	1087 Dec 28 j 17:08	1° \mathbb{A} 31'31	
evening max el	1087 Jan 11 j 10:01	15° \mathbb{A} 38'38	18°22'19	retrograde	1088 Jan 01 j 16:12	2° \mathbb{A} 55'17	
retrograde	1087 Jan 17 j 22:01	19° \mathbb{A} 10'49		evening set	1088 Jan 04 j 21:51	1° \mathbb{A} 54'57	
evening set	1087 Jan 20 j 21:50	18° \mathbb{A} 22'10			1088 Jan 07 j 06:21	30° \mathbb{R} \mathbb{Z}	
inferior conj	1087 Jan 26 j 20:50	12° \mathbb{A} 55'03	3°43'15	inferior conj	1088 Jan 10 j 14:04	26° \mathbb{Z} 10'44	3°25'37
minimum elong	1087 Jan 26 j 19:40	12° \mathbb{A} 58'21	3°43'09	minimum elong	1088 Jan 10 j 11:49	26° \mathbb{Z} 17'44	3°25'14
min. Earth dist.	1087 Jan 29 j 03:43	10° \mathbb{A} 18'47	0.63997 AU	min. Earth dist.	1088 Jan 12 j 05:35	24° \mathbb{Z} 08'01	0.65504 AU
morning rise	1087 Feb 01 j 16:54	6° \mathbb{A} 49'48		morning rise	1088 Jan 16 j 01:27	20° \mathbb{Z} 00'30	
direct	1087 Feb 08 j 14:45	4° \mathbb{A} 01'07		direct	1088 Jan 22 j 15:23	17° \mathbb{Z} 09'06	
desc. node	1087 Feb 18 j 17:48	8° \mathbb{A} 38'44		morning max el	1088 Feb 04 j 16:41	24° \mathbb{Z} 49'05	26°45'12
morning max el	1087 Feb 22 j 06:46	11° \mathbb{A} 52'52	27°32'53	desc. node	1088 Feb 05 j 14:51	25° \mathbb{Z} 45'52	
	1087 Mar 08 j 17:07	0° \mathbb{H}			1088 Feb 09 j 09:53	0° \mathbb{A}	
	1087 Mar 26 j 12:07	0° \mathbb{Y}			1088 Mar 01 j 03:41	0° \mathbb{H}	
morning set	1087 Mar 29 j 05:28	5° \mathbb{Y} 17'21		morning set	1088 Mar 11 j 14:24	18° \mathbb{H} 40'40	
max. Earth dist.	1087 Apr 03 j 05:50	15° \mathbb{Y} 29'54	1.33309 AU	max. Earth dist.	1088 Mar 15 j 22:03	27° \mathbb{H} 06'39	1.34484 AU
					1088 Mar 17 j 08:29	0° \mathbb{Y}	
superior conj	1087 Apr 06 j 03:03	21° \mathbb{Y} 35'29	-0°27'58				
minimum elong	1087 Apr 06 j 04:25	21° \mathbb{Y} 42'48	0°27'40	superior conj	1088 Mar 20 j 03:47	5° \mathbb{Y} 45'13	-0°55'22
asc. node	1087 Apr 08 j 19:26	27° \mathbb{Y} 20'36		minimum elong	1088 Mar 20 j 06:31	5° \mathbb{Y} 59'22	0°54'51
	1087 Apr 10 j 01:06	0° \mathbb{B}		asc. node	1088 Mar 25 j 16:28	17° \mathbb{Y} 20'37	
evening rise	1087 Apr 13 j 06:57	6° \mathbb{B} 54'43		evening rise	1088 Mar 27 j 16:29	21° \mathbb{Y} 31'23	
	1087 Apr 25 j 14:46	0° \mathbb{I}			1088 Mar 31 j 21:01	0° \mathbb{B}	
evening max el	1087 May 05 j 07:18	12° \mathbb{I} 20'39	22°40'56	evening max el	1088 Apr 16 j 05:11	23° \mathbb{B} 07'17	21°10'53
desc. node	1087 May 17 j 17:02	18° \mathbb{I} 51'45		retrograde	1088 Apr 28 j 01:47	28° \mathbb{B} 53'42	
retrograde	1087 May 18 j 11:44	18° \mathbb{I} 53'08		evening set	1088 Apr 30 j 08:17	28° \mathbb{B} 41'43	
evening set	1087 May 21 j 16:19	18° \mathbb{I} 30'45		desc. node	1088 May 03 j 14:04	27° \mathbb{B} 46'48	
min. Earth dist.	1087 May 29 j 15:24	15° \mathbb{I} 02'02	0.55363 AU	inferior conj	1088 May 09 j 17:08	24° \mathbb{B} 42'38	-1°45'22
inferior conj	1087 May 30 j 22:54	14° \mathbb{I} 17'03	-3°30'45	minimum elong	1088 May 09 j 12:12	24° \mathbb{B} 49'34	1°43'39
minimum elong	1087 May 30 j 15:16	14° \mathbb{I} 27'58	3°28'44	min. Earth dist.	1088 May 10 j 03:59	24° \mathbb{B} 27'19	0.54940 AU
morning rise	1087 Jun 08 j 16:30	10° \mathbb{I} 24'36		morning rise	1088 May 18 j 16:18	20° \mathbb{B} 41'16	
direct	1087 Jun 11 j 13:00	10° \mathbb{I} 05'46		direct	1088 May 21 j 22:44	20° \mathbb{B} 18'07	
morning max el	1087 Jun 22 j 18:13	15° \mathbb{I} 18'08	20°53'56	morning max el	1088 Jun 03 j 17:27	26° \mathbb{B} 23'16	22°27'23
	1087 Jul 03 j 17:41	0° \mathbb{G}			1088 Jun 07 j 04:16	0° \mathbb{I}	
asc. node	1087 Jul 05 j 18:40	3° \mathbb{G} 37'29		asc. node	1088 Jun 21 j 15:45	23° \mathbb{I} 00'41	
morning set	1087 Jul 12 j 04:23	16° \mathbb{G} 11'38			1088 Jun 25 j 02:29	0° \mathbb{G}	
	1087 Jul 18 j 19:56	0° \mathbb{Q}		morning set	1088 Jun 25 j 14:41	1° \mathbb{G} 03'34	
superior conj	1087 Jul 19 j 15:58	1° \mathbb{Q} 43'04	1°43'26	superior conj	1088 Jul 02 j 18:58	16° \mathbb{G} 18'12	1°34'07
minimum elong	1087 Jul 19 j 14:43	1° \mathbb{Q} 36'38	1°43'23	minimum elong	1088 Jul 02 j 16:50	16° \mathbb{G} 06'55	1°33'55
max. Earth dist.	1087 Jul 24 j 04:27	10° \mathbb{Q} 49'09	1.35715 AU	max. Earth dist.	1088 Jul 05 j 21:41	22° \mathbb{G} 49'20	1.34258 AU
evening rise	1087 Jul 28 j 07:58	18° \mathbb{Q} 47'22			1088 Jul 09 j 10:39	0° \mathbb{Q}	
	1087 Aug 03 j 13:20	0° \mathbb{P}		evening rise	1088 Jul 10 j 16:23	2° \mathbb{Q} 26'29	
desc. node	1087 Aug 13 j 16:22	16° \mathbb{P} 22'27			1088 Jul 26 j 10:33	0° \mathbb{P}	
	1087 Aug 23 j 10:11	0° \mathbb{Q}		desc. node	1088 Jul 30 j 13:24	6° \mathbb{P} 09'15	
evening max el	1087 Sep 01 j 21:56	10° \mathbb{Q} 48'48	26°24'03	evening max el	1088 Aug 14 j 09:55	24° \mathbb{P} 18'07	27°08'10

	1088 Aug 21 j 22:07	0°♄		max. Earth dist.	1089 Jun 19 j 00:05	5°♄11'08	1.33205 AU
retrograde	1088 Aug 27 j 17:38	1°♄36'53		evening rise	1089 Jun 24 j 11:48	16°♄38'21	
	1088 Sep 02 j 01:30	30°♄			1089 Jul 01 j 10:35	0°♄	
evening set	1088 Sep 03 j 15:53	28°♄52'04		desc. node	1089 Jul 17 j 10:26	25°♄21'12	
min. Earth dist.	1088 Sep 07 j 12:01	25°♄08'43	0.65089 AU		1089 Jul 21 j 01:10	0°♄	
inferior conj	1088 Sep 09 j 14:04	22°♄48'10	-2°36'26	evening max el	1089 Jul 27 j 20:47	7°♄27'34	27°25'47
minimum elong	1088 Sep 09 j 18:06	22°♄36'49	2°34'58	retrograde	1089 Aug 10 j 12:42	14°♄46'10	
morning rise	1088 Sep 15 j 21:08	17°♄14'15		evening set	1089 Aug 17 j 17:11	12°♄07'37	
asc. node	1088 Sep 17 j 14:56	16°♄39'47		min. Earth dist.	1089 Aug 21 j 08:20	8°♄57'23	0.63544 AU
direct	1088 Sep 18 j 14:27	16°♄34'36		inferior conj	1089 Aug 23 j 23:11	6°♄18'03	-3°30'04
morning max el	1088 Sep 25 j 02:58	20°♄05'12	18°08'26	minimum elong	1089 Aug 24 j 04:10	6°♄05'23	3°28'37
	1088 Oct 02 j 14:58	0°♄		morning rise	1089 Aug 30 j 16:18	1°♄00'49	
morning set	1088 Oct 13 j 08:37	17°♄29'37		direct	1089 Sep 02 j 05:00	0°♄29'44	
	1088 Oct 20 j 23:21	0°♄		asc. node	1089 Sep 04 j 12:00	0°♄55'41	
desc. node	1088 Oct 26 j 12:40	8°♄56'24		morning max el	1089 Sep 08 j 18:58	3°♄55'30	17°53'15
				morning set	1089 Sep 25 j 10:32	29°♄35'19	
superior conj	1088 Oct 27 j 15:27	10°♄43'01	-0°07'27		1089 Sep 25 j 16:13	0°♄	
minimum elong	1088 Oct 27 j 14:30	10°♄39'16	0°07'18				
behind sun begin	1088 Oct 27 j 04:44	10°♄00'24		superior conj	1089 Oct 07 j 16:31	20°♄25'35	0°37'50
behind sun end	1088 Oct 28 j 00:16	11°♄18'06		minimum elong	1089 Oct 07 j 20:17	20°♄41'07	0°37'19
max. Earth dist.	1088 Oct 31 j 01:28	16°♄07'40	1.44905 AU	desc. node	1089 Oct 13 j 09:42	29°♄43'28	
	1088 Nov 08 j 22:16	0°♄			1089 Oct 13 j 13:50	0°♄	
evening rise	1088 Nov 13 j 02:16	6°♄28'14		max. Earth dist.	1089 Oct 13 j 18:30	0°♄18'43	1.44037 AU
greatest brilliancy	1088 Nov 26 j 00:32	26°♄18'58	-0.7m	evening rise	1089 Oct 23 j 10:35	15°♄29'16	
	1088 Nov 28 j 12:08	0°♄			1089 Nov 01 j 23:55	0°♄	
evening max el	1088 Dec 08 j 03:25	12°♄32'50	19°43'11	evening max el	1089 Nov 21 j 04:55	26°♄02'23	20°45'59
asc. node	1088 Dec 14 j 14:11	16°♄46'21			1089 Nov 26 j 03:14	0°♄	
retrograde	1088 Dec 15 j 13:23	16°♄51'34		retrograde	1089 Nov 29 j 11:06	0°♄55'22	
evening set	1088 Dec 19 j 02:26	15°♄38'03		asc. node	1089 Dec 01 j 11:14	0°♄32'43	
inferior conj	1088 Dec 24 j 14:14	9°♄39'28	2°56'31		1089 Dec 02 j 13:56	30°♄	
minimum elong	1088 Dec 24 j 11:33	9°♄48'20	2°55'49	evening set	1089 Dec 03 j 09:28	29°♄26'54	
min. Earth dist.	1088 Dec 25 j 15:36	8°♄15'50	0.66620 AU	inferior conj	1089 Dec 08 j 18:45	23°♄16'55	2°18'39
morning rise	1088 Dec 29 j 20:26	3°♄26'43		minimum elong	1089 Dec 08 j 16:11	23°♄25'41	2°17'49
direct	1089 Jan 04 j 22:02	0°♄44'45		min. Earth dist.	1089 Dec 09 j 07:27	22°♄33'31	0.67349 AU
morning max el	1089 Jan 17 j 01:47	7°♄58'45	25°34'00	morning rise	1089 Dec 13 j 22:43	17°♄03'39	
desc. node	1089 Jan 22 j 11:53	14°♄01'20		direct	1089 Dec 19 j 09:44	14°♄39'33	
	1089 Feb 03 j 07:49	0°♄		morning max el	1089 Dec 30 j 10:03	21°♄13'42	24°09'19
	1089 Feb 21 j 15:38	0°♄			1090 Jan 07 j 00:04	0°♄	
morning set	1089 Feb 22 j 08:05	1°♄14'35		desc. node	1090 Jan 09 j 08:55	3°♄04'52	
max. Earth dist.	1089 Feb 26 j 02:18	8°♄13'44	1.36112 AU		1090 Jan 27 j 14:07	0°♄	
				morning set	1090 Feb 04 j 04:37	12°♄42'18	
superior conj	1089 Mar 03 j 20:13	19°♄25'45	-1°21'21	max. Earth dist.	1090 Feb 07 j 22:21	19°♄17'35	1.38103 AU
minimum elong	1089 Mar 04 j 00:01	19°♄44'43	1°20'48		1090 Feb 13 j 17:49	0°♄	
	1089 Mar 09 j 01:18	0°♄					
evening rise	1089 Mar 11 j 21:57	5°♄50'14		superior conj	1090 Feb 15 j 00:51	2°♄27'29	-1°43'41
asc. node	1089 Mar 12 j 13:31	7°♄09'06		minimum elong	1090 Feb 15 j 04:54	2°♄46'51	1°43'17
	1089 Mar 25 j 15:52	0°♄		evening rise	1090 Feb 23 j 20:50	19°♄44'08	
evening max el	1089 Mar 29 j 14:25	4°♄30'04	19°55'56	asc. node	1090 Feb 27 j 10:34	26°♄40'54	
retrograde	1089 Apr 08 j 17:33	9°♄22'41			1090 Mar 01 j 04:57	0°♄	
evening set	1089 Apr 10 j 18:53	9°♄11'31		evening max el	1090 Mar 12 j 10:43	16°♄31'57	19°00'05
inferior conj	1089 Apr 19 j 15:38	5°♄11'18	0°14'01	retrograde	1090 Mar 20 j 23:28	20°♄39'36	
minimum elong	1089 Apr 19 j 16:15	5°♄10'21	0°13'47	evening set	1090 Mar 23 j 04:45	20°♄24'00	
transit middle	1089 Apr 19 j 16:15	5°♄10'21	0°13'47	inferior conj	1090 Mar 31 j 06:33	16°♄09'11	1°54'58
transit begin	1089 Apr 19 j 14:15	5°♄13'23		minimum elong	1090 Mar 31 j 10:27	16°♄02'21	1°53'47
transit end	1089 Apr 19 j 18:15	5°♄07'18		min. Earth dist.	1090 Apr 03 j 09:40	13°♄58'24	0.56879 AU
desc. node	1089 Apr 20 j 11:07	4°♄41'32		desc. node	1090 Apr 07 j 08:07	11°♄39'37	
min. Earth dist.	1089 Apr 21 j 17:57	3°♄54'47	0.55489 AU	morning rise	1090 Apr 08 j 13:06	11°♄07'34	
morning rise	1089 Apr 28 j 11:24	0°♄43'07		direct	1090 Apr 13 j 17:29	10°♄03'59	
direct	1089 May 02 j 13:44	0°♄06'06		morning max el	1090 Apr 28 j 00:08	17°♄27'17	25°44'36
morning max el	1089 May 16 j 09:29	6°♄58'01	24°08'49		1090 May 08 j 08:13	0°♄	
	1089 Jun 01 j 23:22	0°♄			1090 May 25 j 03:15	0°♄	
asc. node	1089 Jun 08 j 12:48	12°♄43'58		morning set	1090 May 25 j 14:04	0°♄56'50	
morning set	1089 Jun 10 j 02:26	16°♄00'17		asc. node	1090 May 26 j 09:50	2°♄41'33	
	1089 Jun 16 j 14:22	0°♄					
superior conj	1089 Jun 17 j 02:54	1°♄07'51	1°19'40	superior conj	1090 Jun 01 j 13:41	16°♄05'10	1°01'02
minimum elong	1089 Jun 17 j 00:28	0°♄54'38	1°19'18	minimum elong	1090 Jun 01 j 11:26	15°♄52'49	1°00'37
				max. Earth dist.	1090 Jun 02 j 09:21	17°♄52'50	1.32546 AU

	1090 Jun 08 j 00:53	0°☿		minimum elong	1091 May 16 j 23:48	0°♄53'56	0°38'41
evening rise	1090 Jun 08 j 14:54	1°☿12'52		max. Earth dist.	1091 May 16 j 21:46	0°♄42'42	1.32262 AU
	1090 Jun 24 j 10:01	0°♁		evening rise	1091 May 23 j 22:57	16°♄00'12	
desc. node	1090 Jul 04 j 07:27	13°♁43'49			1091 May 30 j 23:20	0°☿	
evening max el	1090 Jul 10 j 04:00	20°♁03'58	27°11'40		1091 Jun 20 j 06:45	0°♁	
retrograde	1090 Jul 24 j 00:43	27°♁19'25		desc. node	1091 Jun 21 j 04:28	0°♁55'42	
evening set	1090 Jul 31 j 03:29	25°♁00'09		evening max el	1091 Jun 22 j 04:52	1°♁55'24	26°24'27
min. Earth dist.	1090 Aug 03 j 18:12	22°♁14'16	0.61695 AU	retrograde	1091 Jul 06 j 04:37	9°♁08'05	
inferior conj	1090 Aug 06 j 20:16	19°♁28'07	-4°15'47	evening set	1091 Jul 12 j 18:06	7°♁20'38	
minimum elong	1090 Aug 07 j 01:04	19°♁17'17	4°14'49	min. Earth dist.	1091 Jul 16 j 17:54	4°♁44'09	0.59651 AU
morning rise	1090 Aug 14 j 00:12	14°♁30'57		inferior conj	1091 Jul 20 j 01:43	2°♁08'15	-4°46'08
direct	1090 Aug 16 j 11:00	14°♁05'31		minimum elong	1091 Jul 20 j 04:23	2°♁03'01	4°45'56
asc. node	1090 Aug 22 j 09:02	16°♁38'28			1091 Jul 22 j 22:12	30°♄☿	
morning max el	1090 Aug 23 j 09:34	17°♁34'28	17°56'29	morning rise	1091 Jul 27 j 16:44	27°☿33'45	
	1090 Sep 01 j 06:18	0°♄		direct	1091 Jul 30 j 04:02	27°☿11'58	
morning set	1090 Sep 08 j 08:00	12°♄37'11			1091 Aug 05 j 19:47	0°♁	
	1090 Sep 18 j 00:28	0°♁		morning max el	1091 Aug 06 j 19:43	0°♁53'43	18°19'20
				asc. node	1091 Aug 09 j 06:04	3°♁33'05	
superior conj	1090 Sep 18 j 20:53	1°♁28'48	1°12'06	morning set	1091 Aug 22 j 19:28	26°♁19'15	
minimum elong	1090 Sep 19 j 01:35	1°♁49'12	1°11'34		1091 Aug 24 j 17:48	0°♄	
max. Earth dist.	1090 Sep 26 j 07:28	14°♁03'17	1.42571 AU				
desc. node	1090 Sep 30 j 06:45	20°♁30'08		superior conj	1091 Sep 01 j 01:42	13°♄44'23	1°33'53
evening rise	1090 Oct 02 j 23:07	24°♁45'56		minimum elong	1091 Sep 01 j 05:01	13°♄59'35	1°33'37
	1090 Oct 06 j 07:36	0°♄		max. Earth dist.	1091 Sep 08 j 14:51	27°♄06'43	1.40689 AU
	1090 Oct 27 j 00:19	0°♄			1091 Sep 10 j 07:37	0°♁	
evening max el	1090 Nov 04 j 00:45	9°♄32'50	21°59'26	evening rise	1091 Sep 13 j 06:30	4°♁55'16	
retrograde	1090 Nov 13 j 07:32	15°♄04'04		desc. node	1091 Sep 17 j 03:47	11°♁12'44	
evening set	1090 Nov 17 j 17:10	13°♄19'00			1091 Sep 29 j 13:12	0°♄	
asc. node	1090 Nov 18 j 08:16	12°♄46'26		evening max el	1091 Oct 17 j 15:46	23°♄05'10	23°18'51
inferior conj	1090 Nov 23 j 01:33	7°♄00'55	1°34'00	retrograde	1091 Oct 28 j 01:19	29°♄14'35	
minimum elong	1090 Nov 22 j 23:34	7°♄07'47	1°33'15	evening set	1091 Nov 01 j 23:55	27°♄12'02	
min. Earth dist.	1090 Nov 23 j 02:52	6°♄56'23	0.67712 AU	asc. node	1091 Nov 05 j 05:16	23°♄42'45	
morning rise	1090 Nov 28 j 05:50	0°♄49'04		inferior conj	1091 Nov 07 j 08:50	20°♄49'35	0°44'03
	1090 Nov 29 j 07:41	30°♄♄		minimum elong	1091 Nov 07 j 07:48	20°♄53'05	0°43'37
direct	1090 Dec 03 j 01:41	28°♄47'06		min. Earth dist.	1091 Nov 06 j 23:31	21°♄21'34	0.67730 AU
	1090 Dec 07 j 04:17	0°♄		morning rise	1091 Nov 12 j 15:39	14°♄41'10	
morning max el	1090 Dec 12 j 20:10	4°♄34'08	22°41'11	direct	1091 Nov 16 j 21:01	13°♄02'02	
desc. node	1090 Dec 27 j 05:57	22°♄42'58		morning max el	1091 Nov 25 j 11:42	18°♄03'37	21°18'00
	1091 Jan 01 j 06:42	0°☿			1091 Dec 05 j 05:12	0°♄	
morning set	1091 Jan 15 j 21:56	22°☿48'50		desc. node	1091 Dec 14 j 03:00	12°♄46'03	
	1091 Jan 20 j 05:09	0°☿			1091 Dec 25 j 10:19	0°☿	
max. Earth dist.	1091 Jan 20 j 18:19	0°☿56'05	1.40247 AU	morning set	1091 Dec 26 j 10:47	1°☿36'06	
				max. Earth dist.	1092 Jan 02 j 20:13	13°☿29'00	1.42248 AU
superior conj	1091 Jan 28 j 13:11	14°☿38'41	-1°59'08				
minimum elong	1091 Jan 28 j 15:55	14°☿51'02	1°59'00	superior conj	1092 Jan 10 j 03:58	25°☿47'05	-2°03'24
	1091 Feb 05 j 19:02	0°♄		minimum elong	1092 Jan 10 j 03:02	25°☿43'04	2°03'22
evening rise	1091 Feb 07 j 10:08	3°♄05'21			1092 Jan 12 j 14:21	0°☿	
asc. node	1091 Feb 14 j 07:35	15°♄49'32		evening rise	1092 Jan 21 j 10:13	15°☿45'59	
evening max el	1091 Feb 23 j 15:26	29°♄06'00	18°24'17		1092 Jan 29 j 10:33	0°♄	
	1091 Feb 24 j 15:07	0°♄		asc. node	1092 Feb 01 j 04:36	4°♄27'47	
retrograde	1091 Mar 03 j 00:35	2°♄44'45		evening max el	1092 Feb 07 j 01:31	12°♄04'16	18°08'23
evening set	1091 Mar 05 j 11:26	2°♄21'45		retrograde	1092 Feb 13 j 18:41	15°♄29'55	
	1091 Mar 09 j 22:11	30°♄♄		evening set	1092 Feb 16 j 10:38	14°♄57'51	
inferior conj	1091 Mar 12 j 18:35	27°♄46'41	3°02'22	inferior conj	1092 Feb 23 j 02:28	10°♄01'55	3°37'14
minimum elong	1091 Mar 12 j 22:19	27°♄39'00	3°01'35	minimum elong	1092 Feb 23 j 04:18	9°♄57'32	3°37'03
min. Earth dist.	1091 Mar 16 j 05:06	24°♄58'40	0.58812 AU	min. Earth dist.	1092 Feb 26 j 07:15	7°♄00'39	0.60939 AU
morning rise	1091 Mar 20 j 06:36	22°♄16'13		morning rise	1092 Feb 29 j 20:13	4°♄12'01	
desc. node	1091 Mar 25 j 05:08	20°♄40'34		direct	1092 Mar 07 j 14:50	1°♄56'43	
direct	1091 Mar 26 j 10:22	20°♄36'40		desc. node	1092 Mar 11 j 02:09	2°♄29'43	
morning max el	1091 Apr 09 j 18:56	28°♄18'23	26°59'20	morning max el	1092 Mar 21 j 20:10	9°♄48'39	27°41'18
	1091 Apr 11 j 10:53	0°♄			1092 Apr 06 j 11:10	0°♄	
	1091 May 01 j 23:23	0°♄		morning set	1092 Apr 23 j 06:00	0°♄23'05	
morning set	1091 May 09 j 23:51	15°♄46'30			1092 Apr 23 j 01:31	0°♄	
asc. node	1091 May 13 j 06:52	22°♄47'31		asc. node	1092 Apr 29 j 03:54	12°♄57'27	
	1091 May 16 j 14:00	0°♄		max. Earth dist.	1092 Apr 29 j 09:27	13°♄27'36	1.32352 AU
superior conj	1091 May 17 j 01:26	1°♄02'54	0°39'01	superior conj	1092 Apr 30 j 12:30	15°♄55'26	0°14'20

minimum elong	1092 Apr 30 j 11:51	15° $\text{851}'51$	0°14'13	max. Earth dist.	1093 Apr 12 j 16:21	25° $\text{753}'27$	1.32835 AU
behind sun begin	1092 Apr 30 j 09:36	15° $\text{839}'31$					
behind sun end	1092 Apr 30 j 14:06	16° $\text{804}'12$		superior conj	1093 Apr 14 j 21:11	0° $\text{836}'47$	-0°12'13
	1092 May 06 j 23:50	0° II		minimum elong	1093 Apr 14 j 21:46	0° $\text{839}'57$	0°12'04
evening rise	1092 May 07 j 09:51	0° $\text{II53}'10$		behind sun begin	1093 Apr 14 j 18:20	0° $\text{821}'27$	
	1092 May 23 j 08:34	0° 6		behind sun end	1093 Apr 15 j 01:12	0° $\text{858}'28$	
evening max el	1092 Jun 02 j 22:41	13° $\text{601}'14$	25°08'47		1093 Apr 14 j 14:21	0° 8	
desc. node	1092 Jun 07 j 01:27	16° $\text{628}'27$		asc. node	1093 Apr 16 j 00:58	3° $\text{807}'02$	
retrograde	1092 Jun 16 j 22:50	20° $\text{608}'51$		evening rise	1093 Apr 21 j 21:41	15° $\text{845}'05$	
evening set	1092 Jun 22 j 09:31	19° $\text{600}'24$			1093 Apr 29 j 00:34	0° II	
min. Earth dist.	1092 Jun 27 j 10:21	16° $\text{614}'43$	0.57643 AU	evening max el	1093 May 15 j 12:52	23° $\text{II37}'40$	23°36'09
inferior conj	1092 Jun 30 j 12:16	14° $\text{609}'23$	-4°49'52	desc. node	1093 May 24 j 22:27	29° $\text{II46}'50$	
minimum elong	1092 Jun 30 j 10:30	14° $\text{612}'25$	4°49'47		1093 May 25 j 16:18	0° 6	
morning rise	1092 Jul 08 j 14:09	9° $\text{657}'05$		retrograde	1093 May 29 j 04:58	0° $\text{628}'19$	
direct	1092 Jul 11 j 03:41	9° $\text{637}'38$			1093 Jun 01 j 18:55	30° RII	
morning max el	1092 Jul 19 j 22:21	13° $\text{644}'22$	19°02'53	evening set	1093 Jun 02 j 04:14	29° $\text{II53}'40$	
asc. node	1092 Jul 26 j 03:07	21° $\text{624}'47$		min. Earth dist.	1093 Jun 08 j 23:23	26° $\text{II43}'53$	0.56001 AU
	1092 Jul 31 j 05:21	0° 8		inferior conj	1093 Jun 11 j 02:47	25° $\text{II26}'46$	-4°13'23
morning set	1092 Aug 05 j 16:49	10° $\text{830}'31$		minimum elong	1093 Jun 10 j 20:16	25° $\text{II36}'37$	4°12'08
				morning rise	1093 Jun 19 j 15:00	21° $\text{II30}'19$	
superior conj	1092 Aug 14 j 01:22	26° $\text{856}'25$	1°44'31	direct	1093 Jun 22 j 08:10	21° $\text{II11}'53$	
minimum elong	1092 Aug 14 j 02:41	27° $\text{802}'41$	1°44'28	morning max el	1093 Jul 02 j 14:51	25° $\text{II57}'25$	20°07'36
	1092 Aug 15 j 15:48	0° II			1093 Jul 06 j 08:02	0° 6	
max. Earth dist.	1092 Aug 20 j 18:11	9° $\text{II26}'12$	1.38649 AU	asc. node	1093 Jul 13 j 00:11	10° $\text{600}'44$	
evening rise	1092 Aug 24 j 14:18	16° $\text{II13}'10$		morning set	1093 Jul 20 j 21:04	25° $\text{603}'26$	
	1092 Sep 01 j 21:41	0° 6			1093 Jul 23 j 07:07	0° 8	
desc. node	1092 Sep 03 j 00:49	1° $\text{647}'07$					
	1092 Sep 23 j 03:01	0° II		superior conj	1093 Jul 28 j 14:47	10° $\text{850}'28$	1°46'00
evening max el	1092 Sep 29 j 04:00	6° $\text{II40}'38$	24°38'01	minimum elong	1093 Jul 28 j 14:19	10° $\text{848}'05$	1°45'59
retrograde	1092 Oct 10 j 15:21	13° $\text{II22}'27$		max. Earth dist.	1093 Aug 02 j 23:08	21° $\text{819}'49$	1.36710 AU
evening set	1092 Oct 16 j 04:02	11° $\text{II02}'59$		evening rise	1093 Aug 06 j 20:45	28° $\text{836}'30$	
min. Earth dist.	1092 Oct 20 j 19:02	5° $\text{II46}'10$	0.67423 AU		1093 Aug 07 j 15:09	0° II	
inferior conj	1092 Oct 21 j 14:49	4° $\text{II40}'15$	-0°09'55	desc. node	1093 Aug 20 j 21:50	22° $\text{II08}'44$	
minimum elong	1092 Oct 21 j 15:04	4° $\text{II39}'26$	0°09'49		1093 Aug 26 j 04:49	0° 6	
transit middle	1092 Oct 21 j 15:04	4° $\text{II39}'26$	0°09'49	evening max el	1093 Sep 11 j 15:50	20° $\text{619}'39$	25°49'32
transit begin	1092 Oct 21 j 12:53	4° $\text{II46}'44$		retrograde	1093 Sep 24 j 00:44	27° $\text{623}'25$	
transit end	1092 Oct 21 j 17:15	4° $\text{II32}'08$		evening set	1093 Sep 30 j 03:46	24° $\text{649}'38$	
asc. node	1092 Oct 22 j 02:19	4° $\text{II02}'03$		min. Earth dist.	1093 Oct 04 j 11:04	20° $\text{608}'21$	0.66793 AU
	1092 Oct 25 j 11:33	30° R6		inferior conj	1093 Oct 05 j 17:48	18° $\text{630}'59$	-1°06'27
morning rise	1092 Oct 27 j 02:11	28° $\text{637}'37$		minimum elong	1093 Oct 05 j 19:31	18° $\text{625}'33$	1°05'43
direct	1092 Oct 30 j 18:41	27° $\text{619}'26$		asc. node	1093 Oct 08 j 23:22	14° $\text{642}'19$	
	1092 Nov 05 j 14:10	0° II		morning rise	1093 Oct 11 j 11:32	12° $\text{636}'55$	
morning max el	1092 Nov 07 j 10:39	1° $\text{II43}'09$	20°05'33	direct	1093 Oct 14 j 17:14	11° $\text{636}'31$	
	1092 Nov 27 j 23:06	0° 6		morning max el	1093 Oct 21 j 17:04	15° $\text{631}'57$	19°07'18
desc. node	1092 Nov 30 j 00:02	3° $\text{606}'30$			1093 Nov 01 j 14:35	0° II	
morning set	1092 Dec 04 j 07:16	9° $\text{643}'19$		morning set	1093 Nov 13 j 12:20	18° $\text{II24}'01$	
max. Earth dist.	1092 Dec 15 j 05:18	26° $\text{651}'53$	1.43840 AU	desc. node	1093 Nov 16 j 21:06	23° $\text{II39}'33$	
	1092 Dec 17 j 04:11	0° 6			1093 Nov 20 j 22:23	0° 6	
				max. Earth dist.	1093 Nov 27 j 20:37	10° $\text{652}'28$	1.44828 AU
superior conj	1092 Dec 20 j 16:39	5° $\text{642}'47$	-1°51'38				
minimum elong	1092 Dec 20 j 10:31	5° $\text{617}'43$	1°51'15	superior conj	1093 Nov 30 j 04:42	14° $\text{633}'54$	-1°21'06
evening rise	1093 Jan 02 j 16:42	27° $\text{636}'35$		minimum elong	1093 Nov 29 j 20:07	13° $\text{659}'56$	1°20'12
	1093 Jan 04 j 01:57	0° 6			1093 Dec 09 j 20:14	0° 6	
asc. node	1093 Jan 18 j 01:38	22° $\text{625}'41$		evening rise	1093 Dec 15 j 01:31	8° $\text{630}'43$	
evening max el	1093 Jan 20 j 13:57	25° $\text{618}'11$	18°11'53		1093 Dec 28 j 09:29	0° 6	
retrograde	1093 Jan 27 j 01:19	28° $\text{644}'27$		evening max el	1094 Jan 04 j 02:01	8° $\text{641}'30$	18°33'56
evening set	1093 Jan 29 j 22:07	28° $\text{602}'14$		asc. node	1094 Jan 04 j 22:41	9° $\text{631}'37$	
inferior conj	1093 Feb 05 j 02:20	22° $\text{646}'16$	3°46'36	retrograde	1094 Jan 10 j 16:14	12° $\text{620}'13$	
minimum elong	1093 Feb 05 j 02:08	22° $\text{646}'50$	3°46'36	evening set	1094 Jan 13 j 18:26	11° $\text{626}'45$	
min. Earth dist.	1093 Feb 07 j 18:10	19° $\text{655}'25$	0.62964 AU	inferior conj	1094 Jan 19 j 14:15	5° $\text{652}'21$	3°37'19
morning rise	1093 Feb 11 j 05:09	16° $\text{645}'08$		minimum elong	1094 Jan 19 j 12:33	5° $\text{657}'25$	3°37'08
direct	1093 Feb 18 j 04:33	14° $\text{604}'07$		min. Earth dist.	1094 Jan 21 j 14:37	3° $\text{629}'08$	0.64692 AU
desc. node	1093 Feb 25 j 23:12	16° $\text{649}'48$			1094 Jan 24 j 23:09	30° R6	
morning max el	1093 Mar 04 j 02:36	21° $\text{658}'47$	27°46'08	morning rise	1094 Jan 25 j 06:11	29° $\text{634}'48$	
	1093 Mar 11 j 03:43	0° 6		direct	1094 Feb 01 j 01:33	26° $\text{653}'00$	
	1093 Mar 30 j 14:11	0° 7			1094 Feb 09 j 01:59	0° 6	
morning set	1093 Apr 07 j 06:18	14° $\text{738}'52$		desc. node	1094 Feb 12 j 20:15	3° $\text{605}'41$	

morning max el	1094 Feb 14 j 11:47	4° \approx 41'01	27°15'55	desc. node	1095 Jan 30 j 17:19	20° \approx 44'56	
	1094 Mar 05 j 17:22	0° \approx			1095 Feb 07 j 04:52	0° \approx	
morning set	1094 Mar 21 j 21:54	28° \approx 24'42			1095 Feb 26 j 16:04	0° \approx	
	1094 Mar 22 j 17:22	0° \approx		morning set	1095 Mar 05 j 01:01	11° \approx 29'18	
max. Earth dist.	1094 Mar 26 j 14:47	7° \approx 49'45	1.33754 AU	max. Earth dist.	1095 Mar 09 j 02:05	19° \approx 13'46	1.35127 AU
superior conj	1094 Mar 30 j 01:30	15° \approx 00'35	-0°39'38	superior conj	1095 Mar 13 j 23:08	28° \approx 59'46	-1°06'39
minimum elong	1094 Mar 30 j 03:28	15° \approx 10'55	0°39'14	minimum elong	1095 Mar 14 j 02:23	29° \approx 16'19	1°06'06
asc. node	1094 Apr 02 j 22:01	23° \approx 12'05			1095 Mar 14 j 10:54	0° \approx	
evening rise	1094 Apr 06 j 08:39	0° \approx 29'36		asc. node	1095 Mar 20 j 19:04	13° \approx 08'26	
	1094 Apr 06 j 03:00	0° \approx		evening rise	1095 Mar 21 j 16:47	15° \approx 00'30	
	1094 Apr 23 j 10:16	0° \approx			1095 Mar 29 j 10:03	0° \approx	
evening max el	1094 Apr 27 j 06:08	4° \approx 12'56	22°01'16	evening max el	1095 Apr 09 j 08:40	15° \approx 14'17	20°36'47
retrograde	1094 May 09 j 22:39	10° \approx 27'02		retrograde	1095 Apr 20 j 11:41	20° \approx 37'32	
desc. node	1094 May 11 j 19:29	10° \approx 19'12		evening set	1095 Apr 22 j 14:33	20° \approx 26'36	
evening set	1094 May 12 j 15:44	10° \approx 10'42		desc. node	1095 Apr 28 j 16:30	18° \approx 13'11	
min. Earth dist.	1094 May 21 j 11:30	6° \approx 24'52	0.55068 AU	inferior conj	1095 May 01 j 19:37	16° \approx 28'52	-0°54'22
inferior conj	1094 May 22 j 01:21	6° \approx 05'27	-2°49'57	minimum elong	1095 May 01 j 17:02	16° \approx 32'34	0°53'25
minimum elong	1094 May 21 j 18:11	6° \approx 15'30	2°47'45	min. Earth dist.	1095 May 03 j 00:18	15° \approx 47'35	0.55063 AU
morning rise	1094 May 30 j 22:04	2° \approx 11'26		morning rise	1095 May 10 j 18:42	12° \approx 18'20	
direct	1094 Jun 02 j 22:02	1° \approx 51'23		direct	1095 May 14 j 08:36	11° \approx 50'43	
morning max el	1094 Jun 14 j 19:54	7° \approx 26'18	21°31'58	morning max el	1095 May 27 j 15:24	18° \approx 16'21	23°10'13
asc. node	1094 Jun 29 j 21:16	29° \approx 09'26			1095 Jun 06 j 05:02	0° \approx	
	1094 Jun 30 j 07:54	0° \approx		asc. node	1095 Jun 16 j 18:20	18° \approx 42'29	
morning set	1094 Jul 05 j 05:45	9° \approx 50'25		morning set	1095 Jun 19 j 16:55	24° \approx 45'39	
					1095 Jun 22 j 04:10	0° \approx	
superior conj	1094 Jul 12 j 13:45	25° \approx 13'28	1°40'11	superior conj	1095 Jun 26 j 19:09	9° \approx 55'57	1°28'33
minimum elong	1094 Jul 12 j 12:03	25° \approx 04'37	1°40'04	minimum elong	1095 Jun 26 j 16:50	9° \approx 43'29	1°28'17
	1094 Jul 14 j 21:16	0° \approx		max. Earth dist.	1095 Jun 29 j 08:58	15° \approx 23'55	1.33768 AU
max. Earth dist.	1094 Jul 16 j 11:23	3° \approx 13'21	1.35052 AU	evening rise	1095 Jul 04 j 10:37	25° \approx 46'27	
evening rise	1094 Jul 20 j 21:03	11° \approx 51'50			1095 Jul 06 j 14:28	0° \approx	
	1094 Jul 31 j 00:55	0° \approx			1095 Jul 24 j 10:35	0° \approx	
desc. node	1094 Aug 07 j 18:51	12° \approx 10'36		desc. node	1095 Jul 25 j 15:52	1° \approx 44'04	
	1094 Aug 21 j 09:22	0° \approx		evening max el	1095 Aug 07 j 15:49	17° \approx 18'11	27°19'08
evening max el	1094 Aug 25 j 04:04	3° \approx 55'46	26°45'43	retrograde	1095 Aug 21 j 03:06	24° \approx 36'44	
retrograde	1094 Sep 07 j 04:48	11° \approx 10'43		evening set	1095 Aug 28 j 05:00	21° \approx 53'03	
evening set	1094 Sep 13 j 20:58	8° \approx 27'45		min. Earth dist.	1095 Aug 31 j 22:43	18° \approx 24'39	0.64483 AU
min. Earth dist.	1094 Sep 17 j 21:03	4° \approx 23'22	0.65820 AU	inferior conj	1095 Sep 03 j 06:16	15° \approx 55'07	-2°59'48
inferior conj	1094 Sep 19 j 15:43	2° \approx 17'32	-2°03'51	minimum elong	1095 Sep 03 j 10:47	15° \approx 42'55	2°58'17
minimum elong	1094 Sep 19 j 18:57	2° \approx 07'59	2°02'35	morning rise	1095 Sep 09 j 17:30	10° \approx 27'59	
	1094 Sep 21 j 15:49	30° \approx 10'36		direct	1095 Sep 12 j 08:38	9° \approx 52'16	
morning rise	1094 Sep 25 j 17:30	26° \approx 35'13		asc. node	1095 Sep 12 j 17:31	9° \approx 52'59	
asc. node	1094 Sep 25 j 20:27	26° \approx 31'23		morning max el	1095 Sep 18 j 20:45	13° \approx 19'24	17°59'47
direct	1094 Sep 28 j 14:44	25° \approx 48'55			1095 Sep 30 j 11:18	0° \approx	
morning max el	1094 Oct 05 j 05:17	29° \approx 25'47	18°25'03	morning set	1095 Oct 06 j 07:27	9° \approx 50'42	
	1094 Oct 05 j 18:29	0° \approx			1095 Oct 18 j 11:01	0° \approx	
morning set	1094 Oct 24 j 19:41	28° \approx 25'46					
	1094 Oct 25 j 19:02	0° \approx					
desc. node	1094 Nov 03 j 18:09	14° \approx 20'40		superior conj	1095 Oct 19 j 17:01	2° \approx 01'09	0°12'51
				minimum elong	1095 Oct 19 j 18:31	2° \approx 07'12	0°12'38
superior conj	1094 Nov 09 j 05:32	22° \approx 59'31	-0°35'48	behind sun begin	1095 Oct 19 j 11:56	1° \approx 40'43	
minimum elong	1094 Nov 09 j 00:52	22° \approx 41'10	0°35'11	behind sun end	1095 Oct 20 j 01:05	2° \approx 33'39	
max. Earth dist.	1094 Nov 10 j 15:31	25° \approx 13'09	1.45094 AU	desc. node	1095 Oct 21 j 15:10	5° \approx 06'26	
	1094 Nov 13 j 16:35	0° \approx		max. Earth dist.	1095 Oct 24 j 10:17	9° \approx 33'36	1.44620 AU
evening rise	1094 Nov 25 j 10:44	18° \approx 27'30		evening rise	1095 Nov 05 j 00:38	27° \approx 39'46	
	1094 Dec 02 j 18:50	0° \approx			1095 Nov 06 j 13:04	0° \approx	
greatest brilliancy	1094 Dec 05 j 15:52	4° \approx 29'03	-0.8m	greatest brilliancy	1095 Nov 19 j 05:31	19° \approx 12'19	-0.6m
evening max el	1094 Dec 18 j 11:17	22° \approx 09'09	19°13'23		1095 Nov 26 j 21:42	0° \approx	
asc. node	1094 Dec 22 j 19:43	25° \approx 31'27		evening max el	1095 Dec 01 j 15:50	5° \approx 37'40	20°08'22
retrograde	1094 Dec 25 j 12:00	26° \approx 10'37		retrograde	1095 Dec 09 j 09:41	10° \approx 10'24	
evening set	1094 Dec 28 j 20:42	25° \approx 04'42		asc. node	1095 Dec 09 j 16:45	10° \approx 09'54	
inferior conj	1095 Jan 03 j 10:46	19° \approx 14'01	3°14'29	evening set	1095 Dec 13 j 02:31	8° \approx 50'33	
minimum elong	1095 Jan 03 j 08:15	19° \approx 22'03	3°13'57	inferior conj	1095 Dec 18 j 13:00	2° \approx 46'29	2°41'24
min. Earth dist.	1095 Jan 04 j 20:01	17° \approx 27'49	0.66029 AU	minimum elong	1095 Dec 18 j 10:18	2° \approx 55'32	2°40'38
morning rise	1095 Jan 08 j 19:34	13° \approx 02'45		min. Earth dist.	1095 Dec 19 j 08:41	1° \approx 40'20	0.66970 AU
direct	1095 Jan 15 j 04:43	10° \approx 14'15			1095 Dec 20 j 15:18	30° \approx 14'15	
morning max el	1095 Jan 27 j 21:25	17° \approx 44'08	26°17'19	morning rise	1095 Dec 23 j 17:55	26° \approx 14'33'20	

direct	1095 Dec 29 j 13:21	23°  58'31		min. Earth dist.	1096 Dec 02 j 02:26	16°  00'48	0.67539 AU
	1096 Jan 09 j 07:03	0° 		morning rise	1096 Dec 06 j 22:31	10°  14'16	
morning max el	1096 Jan 10 j 06:09	0°  56'55	24°59'10	direct	1096 Dec 12 j 02:57	7°  59'23	
desc. node	1096 Jan 17 j 14:21	9°  22'40		morning max el	1096 Dec 22 j 14:55	14°  14'37	23°31'43
	1096 Feb 01 j 04:43	0° 		desc. node	1097 Jan 03 j 11:23	28°  42'28	
morning set	1096 Feb 15 j 10:26	23°  36'56			1097 Jan 04 j 09:56	0° 	
	1096 Feb 18 j 22:50	0° 			1097 Jan 24 j 03:04	0° 	
max. Earth dist.	1096 Feb 19 j 02:28	0°  16'49	1.36922 AU	morning set	1097 Jan 26 j 20:02	4°  31'40	
				max. Earth dist.	1097 Jan 30 j 21:13	11°  30'11	1.39008 AU
superior conj	1096 Feb 25 j 10:58	12°  18'24	-1°31'27	superior conj	1097 Feb 07 j 09:12	25°  05'50	-1°51'20
minimum elong	1096 Feb 25 j 15:00	12°  44'30	1°30'55	minimum elong	1097 Feb 07 j 12:56	25°  23'18	1°51'02
evening rise	1096 Mar 04 j 19:45	29°  09'41			1097 Feb 09 j 23:29	0° 	
	1096 Mar 05 j 05:48	0° 		evening rise	1097 Feb 16 j 14:56	12°  18'50	
asc. node	1096 Mar 06 j 16:05	2°  50'34		asc. node	1097 Feb 21 j 13:05	22°  13'07	
evening max el	1096 Mar 21 j 22:40	26°  53'25	19°29'43		1097 Feb 26 j 00:05	0° 	
	1096 Mar 26 j 01:19	0° 		evening max el	1097 Mar 04 j 22:52	9°  09'36	18°42'26
retrograde	1096 Mar 31 j 08:44	1°  25'49		retrograde	1097 Mar 12 j 22:37	13°  03'02	
evening set	1096 Apr 02 j 11:02	1°  13'19		evening set	1097 Mar 15 j 06:07	12°  09'44	
	1096 Apr 06 j 01:10	30° 		inferior conj	1097 Mar 22 j 23:44	8°  21'54	2°27'50
inferior conj	1096 Apr 11 j 00:00	27°  07'39	1°00'24	minimum elong	1097 Mar 23 j 03:54	8°  14'03	2°26'43
minimum elong	1096 Apr 11 j 02:28	27°  03'40	0°59'34	min. Earth dist.	1097 Mar 26 j 08:05	5°  52'17	0.57652 AU
min. Earth dist.	1096 Apr 13 j 14:48	25°  26'50	0.55990 AU	morning rise	1097 Mar 30 j 22:38	3°  06'32	
desc. node	1096 Apr 14 j 13:32	24°  51'59		desc. node	1097 Apr 01 j 10:33	2°  30'42	
morning rise	1096 Apr 19 j 15:11	22°  25'11		direct	1097 Apr 05 j 13:40	1°  48'08	
direct	1096 Apr 24 j 03:59	21°  38'43		morning max el	1097 Apr 19 j 22:15	9°  21'33	26°19'44
morning max el	1096 May 08 j 06:15	28°  45'48	24°51'12		1097 May 05 j 13:45	0° 	
	1096 May 09 j 12:15	0° 		morning set	1097 May 18 j 15:50	24°  37'14	
	1096 May 29 j 10:13	0° 		asc. node	1097 May 20 j 12:23	28°  34'05	
asc. node	1096 Jun 02 j 15:22	8°  32'33			1097 May 21 j 04:21	0° 	
morning set	1096 Jun 03 j 04:48	9° 					
superior conj	1096 Jun 10 j 04:33	24°  12'43	1°12'13	superior conj	1097 May 25 j 15:57	9°  12'43	0°52'04
minimum elong	1096 Jun 10 j 02:07	24°  36'33	1°11'50	minimum elong	1097 May 25 j 13:54	9°  36'47	0°51'41
max. Earth dist.	1096 Jun 11 j 14:37	27°  54'44	1.32878 AU	max. Earth dist.	1097 May 26 j 01:28	10°  40'14	1.32376 AU
	1096 Jun 12 j 13:50	0° 		evening rise	1097 Jun 01 j 15:06	24°  14'31	
evening rise	1096 Jun 17 j 09:38	10°  08'46			1097 Jun 04 j 03:37	0° 	
	1096 Jun 27 j 21:51	0° 			1097 Jun 21 j 16:02	0° 	
desc. node	1096 Jul 11 j 12:52	20°  37'10		desc. node	1097 Jun 28 j 09:53	8°  32'46	
	1096 Jul 19 j 19:13	0° 		evening max el	1097 Jul 02 j 05:54	12°  32'14	26°55'31
evening max el	1096 Jul 20 j 01:13	0°  14'20	27°23'42	retrograde	1097 Jul 16 j 04:31	19°  47'17	
retrograde	1096 Aug 02 j 19:25	7°  32'15		evening set	1097 Jul 23 j 03:01	17°  40'09	
evening set	1096 Aug 10 j 00:28	4°  59'51		min. Earth dist.	1097 Jul 26 j 20:00	15°  00'18	0.60832 AU
min. Earth dist.	1096 Aug 13 j 14:28	2°  01'45	0.62792 AU	inferior conj	1097 Jul 30 j 01:31	12°  15'55	-4°31'10
	1096 Aug 15 j 17:08	30° 		minimum elong	1097 Jul 30 j 05:42	12°  06'59	4°30'32
inferior conj	1096 Aug 16 j 10:38	29°  17'27	-3°50'47	morning rise	1097 Aug 06 j 10:11	7°  28'16	
minimum elong	1096 Aug 16 j 15:44	29°  05'07	3°49'30	direct	1097 Aug 08 j 20:45	7°  04'46	
morning rise	1096 Aug 23 j 08:20	24°  08'44		morning max el	1097 Aug 16 j 01:44	10°  38'14	18°03'44
direct	1096 Aug 25 j 19:54	23°  40'26		asc. node	1097 Aug 16 j 11:36	11°  02'46	
asc. node	1096 Aug 29 j 14:34	24°  47'34			1097 Aug 28 j 20:14	0° 	
morning max el	1096 Sep 01 j 12:36	27°  06'23	17°52'21	morning set	1097 Aug 31 j 22:27	5°  42'54	
	1096 Sep 04 j 01:51	0° 		superior conj	1097 Sep 10 j 21:05	23°  54'23	1°22'49
morning set	1096 Sep 17 j 18:26	22°  17'29		minimum elong	1097 Sep 11 j 01:22	24°  13'24	1°22'23
	1096 Sep 22 j 01:59	0° 			1097 Sep 14 j 08:35	0° 	
superior conj	1096 Sep 29 j 05:42	12°  18'40	0°53'54	max. Earth dist.	1097 Sep 18 j 11:45	7°  01'16	1.41803 AU
minimum elong	1096 Sep 29 j 10:16	12°  37'55	0°53'19	evening rise	1097 Sep 24 j 03:46	16°  17'33	
max. Earth dist.	1096 Oct 06 j 01:41	23°  35'01	1.43471 AU	desc. node	1097 Sep 24 j 09:13	16°  39'23	
desc. node	1096 Oct 07 j 12:12	25°  53'58			1097 Oct 02 j 23:22	0° 	
	1096 Oct 10 j 01:57	0° 			1097 Oct 24 j 21:20	0° 	
evening rise	1096 Oct 14 j 08:32	6°  41'54		evening max el	1097 Oct 27 j 08:21	2°  38'12	22°32'53
	1096 Oct 29 j 21:10	0° 		retrograde	1097 Nov 06 j 02:39	8°  26'21	
evening max el	1096 Nov 13 j 14:46	19°  07'12	21°16'09	evening set	1097 Nov 10 j 17:30	6°  34'08	
retrograde	1096 Nov 22 j 07:11	24°  16'48		asc. node	1097 Nov 12 j 10:49	4°  54'17	
asc. node	1096 Nov 25 j 13:47	23°  16'54		inferior conj	1097 Nov 16 j 01:57	0° 	1°13'24
evening set	1096 Nov 26 j 10:02	22°  41'29		minimum elong	1097 Nov 16 j 00:20	0° 	1°12'45
inferior conj	1096 Dec 01 j 18:44	16°  27'23	2°00'29	min. Earth dist.	1097 Nov 15 j 22:46	0° 	0.67760 AU
minimum elong	1096 Dec 01 j 16:22	16°  35'33	1°59'38		1097 Nov 16 j 05:56	30° 	

morning rise	1097 Nov 21 j 07:02	24° \mathbb{M} 02'48		morning rise	1098 Nov 05 j 17:26	7° \mathbb{M} 57'09	
direct	1097 Nov 25 j 20:36	22° \mathbb{M} 10'27		direct	1098 Nov 09 j 17:13	6° \mathbb{M} 27'02	
morning max el	1097 Dec 05 j 02:48	27° \mathbb{M} 37'52	22°04'39	morning max el	1098 Nov 17 j 21:13	11° \mathbb{M} 10'55	20°45'30
	1097 Dec 07 j 07:57	0° \mathbb{X}			1098 Dec 02 j 08:08	0° \mathbb{X}	
desc. node	1097 Dec 21 j 08:26	18° \mathbb{X} 32'09		desc. node	1098 Dec 08 j 05:30	8° \mathbb{X} 43'19	
	1097 Dec 29 j 01:41	0° \mathbb{Z}		morning set	1098 Dec 17 j 04:01	22° \mathbb{X} 23'49	
morning set	1098 Jan 07 j 00:43	14° \mathbb{Z} 02'00			1098 Dec 22 j 00:01	0° \mathbb{Z}	
max. Earth dist.	1098 Jan 12 j 18:32	23° \mathbb{Z} 27'59	1.41133 AU	max. Earth dist.	1098 Dec 25 j 23:47	6° \mathbb{Z} 24'16	1.42996 AU
	1098 Jan 16 j 14:49	0° \approx					
superior conj	1098 Jan 20 j 13:00	6° \approx 51'37	-2°02'36	superior conj	1099 Jan 01 j 17:04	17° \mathbb{Z} 29'45	-2°00'36
minimum elong	1098 Jan 20 j 14:28	6° \approx 58'08	2°02'34	minimum elong	1099 Jan 01 j 13:57	17° \mathbb{Z} 16'39	2°00'31
evening rise	1098 Jan 30 j 23:03	25° \approx 54'36		evening rise	1099 Jan 08 j 23:58	0° \approx	
	1098 Feb 02 j 03:54	0° \mathbb{H}		asc. node	1099 Jan 13 j 16:09	8° \approx 14'37	
asc. node	1098 Feb 08 j 10:07	11° \mathbb{H} 09'39			1099 Jan 26 j 07:09	29° \approx 31'52	
evening max el	1098 Feb 16 j 06:18	21° \mathbb{H} 55'11	18°15'12		1099 Jan 26 j 15:03	0° \mathbb{H}	
retrograde	1098 Feb 23 j 07:09	25° \mathbb{H} 26'08		evening max el	1099 Jan 30 j 17:47	5° \mathbb{H} 01'00	18°07'34
evening set	1098 Feb 25 j 20:20	24° \mathbb{H} 59'22		retrograde	1099 Feb 06 j 07:08	8° \mathbb{H} 25'06	
inferior conj	1098 Mar 04 j 20:32	20° \mathbb{H} 15'41	3°20'44	evening set	1099 Feb 09 j 01:16	7° \mathbb{H} 48'39	
minimum elong	1098 Mar 04 j 23:33	20° \mathbb{H} 09'03	3°20'15	inferior conj	1099 Feb 15 j 11:41	2° \mathbb{H} 43'51	3°43'52
min. Earth dist.	1098 Mar 08 j 06:02	17° \mathbb{H} 18'47	0.59713 AU	minimum elong	1099 Feb 15 j 12:37	2° \mathbb{H} 41'31	3°43'49
morning rise	1098 Mar 12 j 00:31	14° \mathbb{H} 36'02			1099 Feb 18 j 05:07	30° \mathbb{R} \approx	
direct	1098 Mar 18 j 12:07	12° \mathbb{H} 40'16		min. Earth dist.	1099 Feb 18 j 11:27	29° \approx 44'43	0.61829 AU
desc. node	1098 Mar 19 j 07:34	12° \mathbb{H} 42'02		morning rise	1099 Feb 21 j 22:38	26° \approx 48'42	
morning max el	1098 Apr 01 j 19:27	20° \mathbb{H} 27'14	27°21'37	direct	1099 Feb 28 j 20:33	24° \approx 21'00	
	1098 Apr 10 j 00:40	0° \mathbb{Y}		desc. node	1099 Mar 06 j 04:39	25° \approx 39'09	
	1098 Apr 28 j 08:34	0° \mathbb{B}			1099 Mar 12 j 13:31	0° \mathbb{H}	
morning set	1098 May 03 j 00:19	9° \mathbb{B} 22'15		morning max el	1099 Mar 14 j 22:59	2° \mathbb{H} 14'05	27°48'01
asc. node	1098 May 07 j 09:26	18° \mathbb{B} 42'24			1099 Apr 04 j 08:30	0° \mathbb{Y}	
max. Earth dist.	1098 May 09 j 13:57	23° \mathbb{B} 29'29	1.32249 AU	morning set	1099 Apr 17 j 04:16	23° \mathbb{Y} 50'34	
					1099 Apr 20 j 03:22	0° \mathbb{B}	
superior conj	1098 May 10 j 03:39	24° \mathbb{B} 44'42	0°28'51	max. Earth dist.	1099 Apr 23 j 00:13	6° \mathbb{B} 08'18	1.32508 AU
minimum elong	1098 May 10 j 02:23	24° \mathbb{B} 37'48	0°28'35	asc. node	1099 Apr 24 j 06:27	8° \mathbb{B} 52'22	
	1098 May 12 j 13:03	0° \mathbb{I}					
evening rise	1098 May 17 j 00:38	9° \mathbb{I} 40'39		superior conj	1099 Apr 24 j 13:54	9° \mathbb{B} 32'54	0°03'18
	1098 May 27 j 12:21	0° \mathbb{E}		minimum elong	1099 Apr 24 j 13:44	9° \mathbb{B} 32'02	0°03'15
evening max el	1098 Jun 14 j 03:58	24° \mathbb{E} 05'08	25°55'23	behind sun begin	1099 Apr 24 j 08:43	9° \mathbb{B} 04'38	
desc. node	1098 Jun 15 j 06:52	25° \mathbb{E} 07'15		behind sun end	1099 Apr 24 j 18:46	9° \mathbb{B} 59'27	
	1098 Jun 22 j 12:31	0° \mathbb{Q}		evening rise	1099 May 01 j 12:10	24° \mathbb{B} 33'57	
retrograde	1098 Jun 28 j 04:37	1° \mathbb{Q} 15'53			1099 May 04 j 02:45	0° \mathbb{I}	
	1098 Jul 03 j 19:13	30° \mathbb{R} \mathbb{E}			1099 May 22 j 07:01	0° \mathbb{E}	
evening set	1098 Jul 04 j 08:05	29° \mathbb{E} 45'09		evening max el	1099 May 26 j 19:41	4° \mathbb{E} 55'38	24°30'39
min. Earth dist.	1098 Jul 08 j 16:31	27° \mathbb{E} 06'41	0.58775 AU	desc. node	1099 Jun 02 j 03:54	9° \mathbb{E} 47'33	
inferior conj	1098 Jul 11 j 23:24	24° \mathbb{E} 41'33	-4°51'51	retrograde	1099 Jun 09 j 17:26	11° \mathbb{E} 57'21	
minimum elong	1098 Jul 12 j 00:25	24° \mathbb{E} 39'40	4°51'49	evening set	1099 Jun 14 j 13:44	11° \mathbb{E} 04'39	
morning rise	1098 Jul 19 j 19:01	20° \mathbb{E} 16'25		min. Earth dist.	1099 Jun 20 j 06:48	8° \mathbb{E} 10'29	0.56883 AU
direct	1098 Jul 22 j 07:05	19° \mathbb{E} 55'44		inferior conj	1099 Jun 23 j 01:20	6° \mathbb{E} 24'05	-4°40'02
morning max el	1098 Jul 30 j 09:03	23° \mathbb{E} 46'51	18°35'10	minimum elong	1099 Jun 22 j 21:20	6° \mathbb{E} 30'32	4°39'36
asc. node	1098 Aug 03 j 08:40	28° \mathbb{E} 23'49		morning rise	1099 Jul 01 j 07:40	2° \mathbb{E} 19'40	
	1098 Aug 04 j 12:01	0° \mathbb{Q}		direct	1099 Jul 03 j 22:49	2° \mathbb{E} 00'40	
morning set	1098 Aug 15 j 14:38	19° \mathbb{Q} 39'14		morning max el	1099 Jul 13 j 07:33	6° \mathbb{E} 21'53	19°27'50
	1098 Aug 20 j 23:03	0° \mathbb{P}		asc. node	1099 Jul 21 j 05:44	16° \mathbb{E} 35'30	
					1099 Jul 28 j 14:45	0° \mathbb{Q}	
superior conj	1098 Aug 24 j 10:40	6° \mathbb{P} 36'06	1°39'38	morning set	1099 Jul 30 j 15:18	4° \mathbb{Q} 00'48	
minimum elong	1098 Aug 24 j 13:08	6° \mathbb{P} 47'40	1°39'29				
max. Earth dist.	1098 Aug 31 j 17:08	19° \mathbb{P} 45'57	1.39834 AU	superior conj	1099 Aug 07 j 16:47	20° \mathbb{Q} 07'36	1°46'08
evening rise	1098 Sep 04 j 21:33	26° \mathbb{P} 56'21		minimum elong	1099 Aug 07 j 17:16	20° \mathbb{Q} 10'01	1°46'07
	1098 Sep 06 j 17:39	0° \mathbb{U}			1099 Aug 12 j 20:27	0° \mathbb{P}	
desc. node	1098 Sep 11 j 06:15	7° \mathbb{U} 19'08		max. Earth dist.	1099 Aug 13 j 20:55	1° \mathbb{P} 53'34	1.37805 AU
	1098 Sep 26 j 14:22	0° \mathbb{M}		evening rise	1099 Aug 17 j 15:28	8° \mathbb{P} 43'00	
evening max el	1098 Oct 09 j 22:07	16° \mathbb{M} 12'28	23°52'59	desc. node	1099 Aug 29 j 03:16	27° \mathbb{P} 48'44	
retrograde	1098 Oct 20 j 18:50	22° \mathbb{M} 36'01			1099 Aug 30 j 13:14	0° \mathbb{U}	
evening set	1098 Oct 25 j 23:20	20° \mathbb{M} 26'17		evening max el	1099 Sep 22 j 10:03	29° \mathbb{U} 50'01	25°09'45
asc. node	1098 Oct 30 j 07:52	15° \mathbb{M} 28'17			1099 Sep 22 j 14:08	0° \mathbb{M}	
inferior conj	1098 Oct 31 j 08:55	14° \mathbb{M} 03'27	0°21'33	retrograde	1099 Oct 04 j 06:52	6° \mathbb{M} 41'51	
minimum elong	1098 Oct 31 j 08:24	14° \mathbb{M} 05'12	0°21'20	evening set	1099 Oct 10 j 01:51	4° \mathbb{M} 15'41	
min. Earth dist.	1098 Oct 30 j 19:15	14° \mathbb{M} 49'54	0.67647 AU		1099 Oct 13 j 23:12	30° \mathbb{R} \mathbb{U}	
				min. Earth dist.	1099 Oct 14 j 13:29	29° \mathbb{U} 14'02	0.67204 AU

inferior conj	1099 Oct 15 j 13:52	27° Ω 54'22	-0°33'41	minimum elong	1100 Sep 28 j 17:18	11° Ω 36'08	1°29'51
minimum elong	1099 Oct 15 j 14:43	27° Ω 51'36	0°33'19	asc. node	1100 Oct 03 j 02:01	6° Ω 53'56	
asc. node	1099 Oct 17 j 04:56	25° Ω 49'27		morning rise	1100 Oct 04 j 11:56	5° Ω 54'15	
morning rise	1099 Oct 21 j 03:45	21° Ω 55'17		direct	1100 Oct 07 j 13:41	5° Ω 00'28	
direct	1099 Oct 24 j 15:27	20° Ω 45'04		morning max el	1100 Oct 14 j 08:49	8° Ω 46'54	18°47'19
morning max el	1099 Oct 31 j 23:34	24° Ω 55'03	19°38'54		1100 Oct 29 j 10:58	0° \mathbb{M}	
	1099 Nov 05 j 08:28	0° \mathbb{M}		morning set	1100 Nov 04 j 16:14	9° \mathbb{M} 49'22	
greatest brilliancy	1099 Nov 14 j 09:44	12° \mathbb{M} 49'47	-0.7m	desc. node	1100 Nov 10 j 23:34	19° \mathbb{M} 46'28	
desc. node	1099 Nov 25 j 02:33	29° \mathbb{M} 09'46			1100 Nov 17 j 11:43	0° \mathbb{X}	
	1099 Nov 25 j 15:33	0° \mathbb{X}		max. Earth dist.	1100 Nov 20 j 05:33	4° \mathbb{X} 18'35	1.45028 AU
morning set	1099 Nov 26 j 01:11	0° \mathbb{X} 37'16					
max. Earth dist.	1099 Dec 08 j 12:29	20° \mathbb{X} 07'54	1.44345 AU	superior conj	1100 Nov 20 j 23:20	5° \mathbb{X} 28'28	-1°03'07
				minimum elong	1100 Nov 20 j 15:42	4° \mathbb{X} 58'28	1°02'12
superior conj	1099 Dec 12 j 18:30	26° \mathbb{X} 55'23	-1°40'56		1100 Dec 06 j 09:48	0° \mathbb{Z}	
minimum elong	1099 Dec 12 j 10:39	26° \mathbb{X} 23'48	1°40'17	evening rise	1100 Dec 06 j 12:42	0° \mathbb{Z} 11'40	
	1099 Dec 14 j 16:15	0° \mathbb{Z}			1100 Dec 26 j 03:28	0° \approx	
evening rise	1099 Dec 26 j 13:56	19° \mathbb{Z} 42'27		evening max el	1100 Dec 27 j 17:24	1° \approx 44'35	18°48'39
	1100 Jan 01 j 16:26	0° \approx		asc. node	1100 Dec 30 j 01:17	3° \approx 48'52	
asc. node	1100 Jan 13 j 04:13	17° \approx 09'28		retrograde	1101 Jan 03 j 11:25	5° \approx 32'16	
evening max el	1100 Jan 14 j 06:22	18° \approx 19'38	18°19'00	evening set	1101 Jan 06 j 16:06	4° \approx 33'49	
retrograde	1100 Jan 20 j 17:59	21° \approx 50'03			1101 Jan 11 j 10:53	30° \mathbb{R} \mathbb{Z}	
evening set	1100 Jan 23 j 16:58	21° \approx 03'07		inferior conj	1101 Jan 12 j 09:11	28° \mathbb{Z} 52'06	3°29'03
inferior conj	1100 Jan 29 j 17:13	15° \approx 38'46	3°44'36	minimum elong	1101 Jan 12 j 07:03	28° \mathbb{Z} 58'39	3°28'44
minimum elong	1100 Jan 29 j 16:17	15° \approx 41'22	3°44'33	min. Earth dist.	1101 Jan 14 j 02:59	26° \mathbb{Z} 43'44	0.65307 AU
min. Earth dist.	1100 Feb 01 j 02:25	12° \approx 58'17	0.63739 AU	morning rise	1101 Jan 17 j 21:37	22° \mathbb{Z} 42'24	
morning rise	1100 Feb 04 j 14:54	9° \approx 34'20		direct	1101 Jan 24 j 13:06	19° \mathbb{Z} 50'23	
direct	1100 Feb 11 j 13:19	6° \approx 47'15		morning max el	1101 Feb 06 j 16:59	27° \mathbb{Z} 33'10	26°53'56
desc. node	1100 Feb 21 j 01:42	10° \approx 53'11		desc. node	1101 Feb 06 j 22:44	27° \mathbb{Z} 47'41	
morning max el	1100 Feb 25 j 07:11	14° \approx 40'11	27°37'22		1101 Feb 09 j 00:46	0° \approx	
	1100 Mar 08 j 18:55	0° \mathbb{H}			1101 Mar 02 j 11:22	0° \mathbb{H}	
	1100 Mar 26 j 23:04	0° \mathbb{Y}		morning set	1101 Mar 14 j 12:03	21° \mathbb{H} 24'24	
morning set	1100 Mar 31 j 01:15	7° \mathbb{Y} 54'44			1101 Mar 18 j 21:00	0° \mathbb{Y}	
max. Earth dist.	1100 Apr 05 j 04:12	18° \mathbb{Y} 23'38	1.33175 AU	max. Earth dist.	1101 Mar 18 j 22:02	0° \mathbb{Y} 05'10	1.34280 AU
superior conj	1100 Apr 07 j 20:57	24° \mathbb{Y} 07'10	-0°23'47	superior conj	1101 Mar 22 j 22:42	8° \mathbb{Y} 20'49	-0°51'15
minimum elong	1100 Apr 07 j 22:07	24° \mathbb{Y} 13'24	0°23'33	minimum elong	1101 Mar 23 j 01:14	8° \mathbb{Y} 34'00	0°50'46
asc. node	1100 Apr 10 j 03:31	29° \mathbb{Y} 00'21		asc. node	1101 Mar 28 j 00:34	19° \mathbb{Y} 01'55	
	1100 Apr 10 j 14:35	0° \mathbb{B}		evening rise	1101 Mar 30 j 09:50	24° \mathbb{Y} 02'12	
evening rise	1100 Apr 14 j 23:53	9° \mathbb{B} 23'19			1101 Apr 02 j 07:44	0° \mathbb{B}	
	1100 Apr 25 j 18:13	0° \mathbb{I}		evening max el	1101 Apr 19 j 06:31	26° \mathbb{B} 09'24	21°23'29
evening max el	1100 May 07 j 09:59	15° \mathbb{I} 26'14	22°55'04		1101 Apr 24 j 05:31	0° \mathbb{I}	
desc. node	1100 May 19 j 00:55	21° \mathbb{I} 57'39		retrograde	1101 May 01 j 08:47	2° \mathbb{I} 03'22	
retrograde	1100 May 20 j 18:01	22° \mathbb{I} 04'19		evening set	1101 May 03 j 17:21	1° \mathbb{I} 50'40	
evening set	1100 May 24 j 03:06	21° \mathbb{I} 39'15		desc. node	1101 May 05 j 21:55	1° \mathbb{I} 17'36	
min. Earth dist.	1100 May 31 j 18:52	18° \mathbb{I} 15'46	0.55502 AU		1101 May 09 j 02:01	30° \mathbb{R} \mathbb{B}	
inferior conj	1100 Jun 02 j 07:58	17° \mathbb{I} 22'12	-3°43'24	inferior conj	1101 May 13 j 02:55	27° \mathbb{B} 50'34	-2°03'06
minimum elong	1100 Jun 02 j 00:27	17° \mathbb{I} 33'06	3°41'34	minimum elong	1101 May 12 j 21:16	27° \mathbb{B} 58'31	2°01'10
morning rise	1100 Jun 11 j 00:16	13° \mathbb{I} 29'19		min. Earth dist.	1101 May 13 j 07:26	27° \mathbb{B} 44'14	0.54940 AU
direct	1100 Jun 13 j 19:43	13° \mathbb{I} 10'45		morning rise	1101 May 22 j 01:40	23° \mathbb{B} 51'38	
morning max el	1100 Jun 24 j 19:10	18° \mathbb{I} 15'51	20°41'25	direct	1101 May 25 j 06:08	23° \mathbb{B} 29'32	
	1100 Jul 03 j 22:46	0° \mathbb{E}		morning max el	1101 Jun 06 j 19:52	29° \mathbb{B} 27'11	22°12'41
asc. node	1100 Jul 07 j 02:47	5° \mathbb{E} 25'51			1101 Jun 07 j 09:40	0° \mathbb{I}	
morning set	1100 Jul 13 j 21:39	18° \mathbb{E} 39'55		asc. node	1101 Jun 23 j 23:50	24° \mathbb{I} 45'32	
	1100 Jul 19 j 09:03	0° \mathbb{Q}			1101 Jun 26 j 14:45	0° \mathbb{E}	
				morning set	1101 Jun 28 j 07:34	3° \mathbb{E} 30'49	
superior conj	1100 Jul 21 j 10:40	4° \mathbb{Q} 14'59	1°44'20	superior conj	1101 Jul 05 j 12:43	18° \mathbb{E} 47'27	1°35'53
minimum elong	1100 Jul 21 j 09:36	4° \mathbb{Q} 09'33	1°44'17	minimum elong	1101 Jul 05 j 10:40	18° \mathbb{E} 36'42	1°35'43
max. Earth dist.	1100 Jul 26 j 04:17	13° \mathbb{Q} 43'11	1.35957 AU	max. Earth dist.	1101 Jul 08 j 20:06	25° \mathbb{E} 40'57	1.34449 AU
evening rise	1100 Jul 30 j 06:01	21° \mathbb{Q} 29'15			1101 Jul 10 j 23:09	0° \mathbb{Q}	
	1100 Aug 03 j 23:05	0° \mathbb{P}		evening rise	1101 Jul 13 j 12:29	5° \mathbb{Q} 02'53	
desc. node	1100 Aug 15 j 00:17	18° \mathbb{P} 02'36			1101 Jul 27 j 16:29	0° \mathbb{P}	
	1100 Aug 23 j 09:33	0° \mathbb{U}		desc. node	1101 Aug 01 j 21:17	7° \mathbb{P} 53'41	
evening max el	1100 Sep 03 j 21:47	13° \mathbb{U} 27'43	26°15'43	evening max el	1101 Aug 17 j 09:53	26° \mathbb{P} 59'22	27°03'11
retrograde	1100 Sep 16 j 14:07	20° \mathbb{U} 37'58			1101 Aug 20 j 20:22	0° \mathbb{U}	
evening set	1100 Sep 22 j 23:07	17° \mathbb{U} 59'05		retrograde	1101 Aug 30 j 16:04	4° \mathbb{U} 17'32	
min. Earth dist.	1100 Sep 27 j 03:08	13° \mathbb{U} 33'42	0.66421 AU	evening set	1101 Sep 06 j 12:48	1° \mathbb{U} 32'58	
inferior conj	1100 Sep 28 j 14:56	11° \mathbb{U} 43'26	-1°30'50				

	1101 Sep 08 j 06:24	30° 8 ⁷	
min. Earth dist.	1101 Sep 10 j 09:56	27° 7 ⁶ 44'08	0.65287 AU
inferior conj	1101 Sep 12 j 10:02	25° 7 ⁶ 27'12	-2°27'56
minimum elong	1101 Sep 12 j 13:52	25° 7 ⁶ 16'16	2°26'31
morning rise	1101 Sep 18 j 15:41	19° 7 ⁶ 50'55	
asc. node	1101 Sep 19 j 23:03	19° 7 ⁶ 21'11	
direct	1101 Sep 21 j 09:55	19° 7 ⁶ 09'41	
morning max el	1101 Sep 27 j 22:47	22° 7 ⁶ 41'47	18°12'11
	1101 Oct 03 j 17:29	0° 7 ⁶	
morning set	1101 Oct 16 j 12:07	20° 7 ⁶ 28'13	
	1101 Oct 22 j 07:55	0° 7 ⁶	
desc. node	1101 Oct 28 j 20:37	10° 7 ⁶ 30'08	
superior conj	1101 Oct 31 j 02:16	14° 7 ⁶ 03'18	-0°14'51
minimum elong	1101 Oct 31 j 00:22	13° 7 ⁶ 55'44	0°14'36
behind sun begin	1101 Oct 30 j 19:30	13° 7 ⁶ 36'27	
behind sun end	1101 Oct 31 j 05:14	14° 7 ⁶ 15'01	
max. Earth dist.	1101 Nov 03 j 00:18	18° 7 ⁶ 39'49	1.44980 AU
	1101 Nov 10 j 06:00	0° 7 ⁶	
evening rise	1101 Nov 16 j 12:42	9° 7 ⁶ 46'43	
greatest brilliancy	1101 Nov 28 j 19:42	28° 7 ⁶ 44'44	-0.7m
	1101 Nov 29 j 15:41	0° 7 ⁶	
evening max el	1101 Dec 11 j 00:53	15° 7 ⁶ 12'57	19°34'59
asc. node	1101 Dec 16 j 22:19	19° 7 ⁶ 15'44	
retrograde	1101 Dec 18 j 08:14	19° 7 ⁶ 26'49	
evening set	1101 Dec 21 j 20:06	18° 7 ⁶ 15'21	
inferior conj	1101 Dec 27 j 08:26	12° 7 ⁶ 18'50	3°01'32
minimum elong	1101 Dec 27 j 05:47	12° 7 ⁶ 27'32	3°00'52
min. Earth dist.	1101 Dec 28 j 11:50	10° 7 ⁶ 49'11	0.66483 AU
morning rise	1102 Jan 01 j 15:13	6° 7 ⁶ 06'24	
direct	1102 Jan 07 j 18:55	3° 7 ⁶ 22'21	