



























































































































superior conj	7100 May 06 17:02	18°♄20'54	-1°46'12	morning set	7101 Apr 03 17:37	5°♄37'12	
minimum elong	7100 May 06 22:34	18°♄45'52	1°45'42	max. Earth dist.	7101 Apr 11 00:34	17°♄18'49	1.42472 AU
	7100 May 13 00:29	0°♄					
evening rise	7100 May 16 17:31	7°♄00'06		superior conj	7101 Apr 18 06:53	29°♄28'31	-2°05'22
asc. node	7100 May 19 19:31	12°♄47'44		minimum elong	7101 Apr 18 10:51	29°♄45'29	2°05'12
	7100 May 30 07:49	0°♄			7101 Apr 18 14:14	0°♄	
evening max el	7100 Jun 01 19:56	2°♄48'57	18°23'37	evening rise	7101 Apr 29 17:34	19°♄41'53	
retrograde	7100 Jun 09 06:26	6°♄31'26			7101 May 05 11:54	0°♄	
evening set	7100 Jun 11 12:39	6°♄11'49		asc. node	7101 May 06 16:33	2°♄04'07	
inferior conj	7100 Jun 18 23:01	1°♄36'49	1°27'59	evening max el	7101 May 16 06:45	15°♄45'04	18°07'01
minimum elong	7100 Jun 19 01:47	1°♄31'11	1°27'01	retrograde	7101 May 22 23:28	19°♄09'52	
	7100 Jun 20 22:12	30°♄		evening set	7101 May 25 12:54	18°♄40'09	
min. Earth dist.	7100 Jun 22 08:45	28°♄51'16	0.58451 AU	inferior conj	7101 Jun 01 05:53	13°♄44'44	2°31'49
desc. node	7100 Jun 24 02:55	27°♄34'01		minimum elong	7101 Jun 01 09:00	13°♄37'20	2°30'59
morning rise	7100 Jun 26 11:41	26°♄07'39		min. Earth dist.	7101 Jun 04 11:47	10°♄41'19	0.60665 AU
direct	7100 Jul 02 13:31	24°♄30'45		morning rise	7101 Jun 08 02:40	7°♄50'48	
	7100 Jul 14 12:17	0°♄		desc. node	7101 Jun 10 23:55	6°♄22'39	
morning max el	7100 Jul 16 22:50	2°♄14'00	27°08'43	direct	7101 Jun 14 17:08	5°♄41'58	
	7100 Aug 05 22:59	0°♄		morning max el	7101 Jun 29 00:29	13°♄39'21	27°49'02
asc. node	7100 Aug 15 18:52	18°♄56'49			7101 Jul 12 02:11	0°♄	
morning set	7100 Aug 16 09:17	20°♄12'31			7101 Jul 29 07:55	0°♄	
	7100 Aug 20 22:06	0°♄		morning set	7101 Jul 31 14:21	4°♄37'20	
				asc. node	7101 Aug 02 15:52	8°♄56'56	
superior conj	7100 Aug 23 09:45	5°♄29'45	1°11'25	max. Earth dist.	7101 Aug 06 15:45	17°♄35'25	1.31873 AU
minimum elong	7100 Aug 23 07:29	5°♄17'11	1°11'01				
max. Earth dist.	7100 Aug 23 05:46	5°♄07'40	1.31768 AU	superior conj	7101 Aug 07 20:48	20°♄15'18	0°51'24
evening rise	7100 Aug 30 04:59	20°♄21'43		minimum elong	7101 Aug 07 18:48	20°♄04'14	0°50'59
	7100 Sep 03 21:46	0°♄			7101 Aug 12 06:58	0°♄	
desc. node	7100 Sep 20 02:03	26°♄54'28		evening rise	7101 Aug 14 15:24	5°♄05'21	
	7100 Sep 22 11:25	0°♄			7101 Aug 27 17:15	0°♄	
evening max el	7100 Sep 28 18:28	6°♄54'52	26°33'40	desc. node	7101 Sep 06 23:05	14°♄15'11	
retrograde	7100 Oct 12 16:25	14°♄01'55		evening max el	7101 Sep 10 12:11	17°♄58'35	25°19'02
evening set	7100 Oct 19 10:16	12°♄08'44		retrograde	7101 Sep 24 09:59	25°♄00'51	
min. Earth dist.	7100 Oct 23 08:04	9°♄33'41	0.59620 AU	evening set	7101 Sep 30 06:20	23°♄42'16	
inferior conj	7100 Oct 26 13:15	7°♄02'36	-4°36'37	min. Earth dist.	7101 Oct 04 23:51	21°♄02'50	0.57596 AU
minimum elong	7100 Oct 26 20:02	6°♄49'15	4°35'01	inferior conj	7101 Oct 07 23:46	19°♄00'33	-5°19'00
morning rise	7100 Nov 03 08:01	2°♄25'25		minimum elong	7101 Oct 08 03:48	18°♄53'40	5°18'34
direct	7100 Nov 05 14:37	2°♄06'46		morning rise	7101 Oct 16 03:35	14°♄46'38	
asc. node	7100 Nov 11 18:14	4°♄31'20		direct	7101 Oct 18 14:33	14°♄28'37	
morning max el	7100 Nov 13 07:52	5°♄53'51	18°15'42	morning max el	7101 Oct 27 10:45	18°♄41'13	18°59'43
	7100 Nov 28 13:52	0°♄		asc. node	7101 Oct 29 15:16	21°♄00'58	
morning set	7100 Nov 29 03:28	1°♄04'27			7101 Nov 04 20:19	0°♄	
				morning set	7101 Nov 13 02:00	15°♄22'42	
superior conj	7100 Dec 08 11:43	18°♄33'26	1°00'04		7101 Nov 20 12:32	0°♄	
minimum elong	7100 Dec 08 15:19	18°♄49'47	0°59'40				
	7100 Dec 14 23:00	0°♄		superior conj	7101 Nov 21 10:38	1°♄46'17	1°22'38
max. Earth dist.	7100 Dec 16 02:28	1°♄57'25	1.41065 AU	minimum elong	7101 Nov 21 13:44	2°♄01'06	1°22'24
desc. node	7100 Dec 17 01:11	3°♄33'39		max. Earth dist.	7101 Nov 28 08:17	14°♄33'58	1.38932 AU
evening rise	7100 Dec 20 20:09	9°♄51'09		evening rise	7101 Dec 02 04:20	21°♄17'32	
	7101 Jan 02 19:55	0°♄		desc. node	7101 Dec 03 22:13	24°♄15'50	
evening max el	7101 Jan 23 22:56	27°♄27'09	23°13'22		7101 Dec 07 09:17	0°♄	
	7101 Jan 26 17:07	0°♄			7101 Dec 27 20:39	0°♄	
retrograde	7101 Feb 03 08:36	3°♄36'40		evening max el	7102 Jan 06 12:18	11°♄11'05	24°32'36
asc. node	7101 Feb 07 17:25	2°♄01'23		retrograde	7102 Jan 17 23:55	17°♄54'00	
evening set	7101 Feb 08 07:21	1°♄33'45		evening set	7102 Jan 23 11:22	15°♄37'00	
	7101 Feb 09 21:55	30°♄		asc. node	7102 Jan 25 14:29	13°♄28'49	
inferior conj	7101 Feb 13 16:54	25°♄08'11	1°52'16	min. Earth dist.	7102 Jan 28 02:08	10°♄21'53	0.67891 AU
minimum elong	7101 Feb 13 14:45	25°♄15'34	1°51'35	inferior conj	7102 Jan 28 23:57	9°♄09'03	1°06'35
min. Earth dist.	7101 Feb 13 06:19	25°♄44'38	0.68269 AU	minimum elong	7102 Jan 28 22:28	9°♄14'03	1°06'03
morning rise	7101 Feb 18 22:06	19°♄01'43		morning rise	7102 Feb 03 09:42	3°♄08'53	
direct	7101 Feb 23 05:51	17°♄18'08		direct	7102 Feb 07 04:15	1°♄47'24	
morning max el	7101 Mar 03 18:42	22°♄13'44	21°11'55	morning max el	7102 Feb 14 17:44	6°♄03'03	19°59'25
	7101 Mar 10 10:24	0°♄		desc. node	7102 Mar 01 21:34	26°♄05'52	
desc. node	7101 Mar 15 00:34	6°♄11'13			7102 Mar 04 12:23	0°♄	
	7101 Mar 31 03:05	0°♄		morning set	7102 Mar 13 15:16	13°♄53'09	

	7102 Mar 23 22:21	0°♿		morning rise	7103 Jan 18 20:24	17°♿17'10	
max. Earth dist.	7102 Mar 24 10:15	0°♿47'23	1.44110 AU	direct	7103 Jan 22 03:16	16°♿15'11	
				morning max el	7103 Jan 29 00:33	20°♿02'38	19°01'40
superior conj	7102 Mar 29 19:55	9°♿30'05	-2°10'35		7103 Feb 05 22:48	0°♿	
minimum elong	7102 Mar 29 18:38	9°♿24'49	2°10'35	desc. node	7103 Feb 16 18:34	16°♿20'37	
	7102 Apr 11 01:38	0°♿		morning set	7103 Feb 20 19:30	22°♿36'49	
evening rise	7102 Apr 11 23:19	1°♿32'54			7103 Feb 25 13:22	0°♿	
asc. node	7102 Apr 23 13:36	20°♿54'00		max. Earth dist.	7103 Mar 07 01:47	14°♿52'55	1.45139 AU
evening max el	7102 Apr 29 19:51	29°♿00'51	18°09'38				
	7102 Apr 30 21:25	0°♿		superior conj	7103 Mar 09 10:13	18°♿35'06	-1°56'41
retrograde	7102 May 06 05:33	2°♿22'47		minimum elong	7103 Mar 09 02:23	18°♿04'12	1°56'10
evening set	7102 May 09 01:55	1°♿40'59			7103 Mar 16 14:27	0°♿	
	7102 May 11 14:40	30°♿		evening rise	7103 Mar 24 06:44	12°♿26'20	
inferior conj	7102 May 15 05:32	26°♿26'35	3°09'06		7103 Apr 04 02:51	0°♿	
minimum elong	7102 May 15 07:36	26°♿21'01	3°08'43	asc. node	7103 Apr 10 10:41	9°♿08'55	
min. Earth dist.	7102 May 17 23:48	23°♿29'08	0.62845 AU	evening max el	7103 Apr 13 08:19	12°♿28'54	18°30'43
morning rise	7102 May 21 11:45	20°♿18'21		retrograde	7103 Apr 19 20:18	16°♿01'16	
direct	7102 May 28 06:53	17°♿44'31		evening set	7103 Apr 22 23:38	15°♿06'08	
desc. node	7102 May 28 20:57	17°♿45'35		inferior conj	7103 Apr 28 17:46	9°♿34'10	3°25'12
morning max el	7102 Jun 11 07:34	25°♿47'06	27°51'03	minimum elong	7103 Apr 28 18:24	9°♿32'18	3°25'07
	7102 Jun 15 04:52	0°♿		min. Earth dist.	7103 Apr 30 21:03	7°♿02'01	0.64769 AU
	7102 Jul 05 14:58	0°♿		morning rise	7103 May 04 12:22	3°♿19'27	
morning set	7102 Jul 15 13:17	18°♿41'05		direct	7103 May 11 04:46	0°♿32'41	
asc. node	7102 Jul 20 12:52	29°♿02'11		desc. node	7103 May 15 17:58	1°♿37'57	
	7102 Jul 20 23:42	0°♿		morning max el	7103 May 24 17:22	8°♿28'53	27°17'47
max. Earth dist.	7102 Jul 20 21:06	29°♿46'07	1.32437 AU		7103 Jun 10 10:30	0°♿	
					7103 Jun 27 23:11	0°♿	
superior conj	7102 Jul 23 05:16	4°♿48'47	0°27'17	morning set	7103 Jun 29 03:23	2°♿16'15	
minimum elong	7102 Jul 23 04:01	4°♿42'01	0°26'58	max. Earth dist.	7103 Jul 03 18:05	11°♿30'22	1.33480 AU
evening rise	7102 Jul 30 03:06	19°♿48'58					
	7102 Aug 04 01:35	0°♿		superior conj	7103 Jul 07 09:07	19°♿04'36	-0°00'20
evening max el	7102 Aug 23 00:15	28°♿23'23	23°44'37	minimum elong	7103 Jul 07 09:09	19°♿04'44	0°00'24
desc. node	7102 Aug 24 20:09	0°♿03'10		behind sun begin	7103 Jul 07 03:38	18°♿35'32	
	7102 Aug 24 18:40	0°♿		behind sun end	7103 Jul 07 14:40	19°♿33'57	
retrograde	7102 Sep 05 15:45	5°♿13'57		asc. node	7103 Jul 07 09:54	19°♿08'45	
evening set	7102 Sep 10 02:06	4°♿30'51			7103 Jul 12 11:54	0°♿	
min. Earth dist.	7102 Sep 16 10:28	1°♿28'18	0.55912 AU	evening rise	7103 Jul 14 14:12	4°♿27'12	
inferior conj	7102 Sep 18 14:00	0°♿10'46	-5°26'03		7103 Jul 28 11:58	0°♿	
minimum elong	7102 Sep 18 11:33	0°♿14'28	5°25'55	evening max el	7103 Aug 04 14:16	8°♿40'44	22°06'33
	7102 Sep 18 21:08	30°♿		desc. node	7103 Aug 11 17:11	13°♿46'35	
morning rise	7102 Sep 26 23:17	26°♿15'39		retrograde	7103 Aug 17 09:13	15°♿01'51	
direct	7102 Sep 29 18:49	25°♿55'48		evening set	7103 Aug 20 08:11	14°♿42'27	
	7102 Oct 09 06:09	0°♿		inferior conj	7103 Aug 29 11:55	10°♿39'42	-4°41'34
morning max el	7102 Oct 10 02:10	0°♿45'05	20°05'59	minimum elong	7103 Aug 29 03:23	10°♿51'41	4°39'46
asc. node	7102 Oct 16 12:17	8°♿32'18		min. Earth dist.	7103 Aug 28 19:35	11°♿02'38	0.54903 AU
morning set	7102 Oct 28 07:05	29°♿58'11		morning rise	7103 Sep 07 00:08	6°♿50'41	
	7102 Oct 28 07:27	0°♿		direct	7103 Sep 10 07:45	6°♿26'10	
				morning max el	7103 Sep 22 04:48	12°♿00'37	21°33'17
superior conj	7102 Nov 04 23:27	15°♿38'42	1°36'13	asc. node	7103 Oct 03 09:18	26°♿51'34	
minimum elong	7102 Nov 05 01:16	15°♿47'53	1°36'09		7103 Oct 05 04:22	0°♿	
max. Earth dist.	7102 Nov 10 14:09	26°♿36'51	1.36833 AU	morning set	7103 Oct 12 16:15	14°♿44'01	
	7102 Nov 12 09:28	0°♿					
evening rise	7102 Nov 14 09:30	3°♿40'16		superior conj	7103 Oct 19 22:02	29°♿58'41	1°41'52
desc. node	7102 Nov 20 19:16	14°♿50'15		minimum elong	7103 Oct 19 22:27	0°♿00'51	1°41'54
	7102 Nov 30 09:24	0°♿			7103 Oct 19 22:18	0°♿	
evening max el	7102 Dec 20 01:11	24°♿57'21	25°44'58	max. Earth dist.	7103 Oct 24 01:44	8°♿29'31	1.34987 AU
	7102 Dec 26 06:37	0°♿		evening rise	7103 Oct 28 07:57	16°♿49'37	
retrograde	7103 Jan 01 10:41	2°♿03'00			7103 Nov 04 14:20	0°♿	
	7103 Jan 06 22:16	30°♿		desc. node	7103 Nov 07 16:19	5°♿11'48	
evening set	7103 Jan 07 11:03	29°♿34'23			7103 Nov 24 18:56	0°♿	
min. Earth dist.	7103 Jan 11 18:49	24°♿53'45	0.67141 AU	evening max el	7103 Dec 02 14:23	8°♿39'50	26°43'00
asc. node	7103 Jan 12 11:33	24°♿00'53		retrograde	7103 Dec 15 15:55	15°♿56'31	
inferior conj	7103 Jan 13 03:51	23°♿09'04	0°13'40	evening set	7103 Dec 22 04:27	13°♿20'34	
minimum elong	7103 Jan 13 03:29	23°♿10'12	0°13'35	min. Earth dist.	7103 Dec 26 05:57	9°♿14'44	0.66035 AU
transit middle	7103 Jan 13 03:29	23°♿10'12	0°13'35	inferior conj	7103 Dec 28 02:28	7°♿03'28	-0°45'46
transit begin	7103 Jan 13 01:58	23°♿15'01		minimum elong	7103 Dec 28 03:45	6°♿59'40	0°45'09
transit end	7103 Jan 13 05:01	23°♿05'22		asc. node	7103 Dec 30 08:36	4°♿29'50	

morning rise	7104 Jan 03 03:57	1°  22'22	morning max el	7104 Dec 26 05:58	18°  09'48	17°55'36	
direct	7104 Jan 06 01:01	0°  36'23		7105 Jan 03 23:10	0° 		
morning max el	7104 Jan 12 13:28	4°  06'53	18°20'09	morning set	7105 Jan 12 13:13	14°  13'19	
	7104 Jan 30 09:27	0° 		desc. node	7105 Jan 20 12:36	27°  28'03	
morning set	7104 Feb 01 01:41	2°  41'27			7105 Jan 22 01:49	0° 	
desc. node	7104 Feb 03 15:35	6°  49'24					
				superior conj	7105 Jan 26 03:58	6°  36'20	-0°39'29
superior conj	7104 Feb 16 14:18	27°  19'06	-1°23'41	minimum elong	7105 Jan 25 23:19	6°  17'44	0°38'47
minimum elong	7104 Feb 16 05:05	26°  42'56	1°22'36	max. Earth dist.	7105 Jan 30 16:46	13°  48'53	1.45017 AU
max. Earth dist.	7104 Feb 17 20:56	29°  19'11	1.45452 AU		7105 Feb 10 02:09	0° 	
	7104 Feb 18 07:22	0° 		evening rise	7105 Feb 11 06:11	1°  47'52	
evening rise	7104 Mar 03 14:59	22°  24'42		greatest brilliancy	7105 Feb 25 22:34	23°  48'43	-0.6m
	7104 Mar 08 11:03	0° 			7105 Mar 02 03:33	0° 	
greatest brilliancy	7104 Mar 14 08:07	9°  08'52	-0.8m	evening max el	7105 Mar 09 22:07	9°  39'01	20°03'30
evening max el	7104 Mar 26 17:38	26°  02'44	19°09'14	asc. node	7105 Mar 14 04:47	13°  06'49	
asc. node	7104 Mar 27 07:45	26°  03'31		retrograde	7105 Mar 17 14:19	14°  06'21	
retrograde	7104 Apr 02 16:09	29°  05'31		evening set	7105 Mar 21 09:29	12°  42'22	
evening set	7104 Apr 06 02:56	28°  04'14		inferior conj	7105 Mar 26 18:10	6°  40'02	3°11'47
inferior conj	7104 Apr 11 14:57	23°  00'08	3°24'56	minimum elong	7105 Mar 26 16:31	6°  45'37	3°11'33
minimum elong	7104 Apr 11 14:16	23°  02'20	3°24'53	min. Earth dist.	7105 Mar 27 15:27	5°  28'12	0.67405 AU
min. Earth dist.	7104 Apr 13 02:45	21°  05'24	0.66306 AU	morning rise	7105 Mar 31 23:20	0° 	
morning rise	7104 Apr 17 01:13	16°  04'33			7105 Apr 01 10:23	30° 	
direct	7104 Apr 23 09:10	13°  05'48		direct	7105 Apr 06 19:10	27°  48'00	
desc. node	7104 May 01 14:59	17°  02'48			7105 Apr 12 21:10	0° 	
morning max el	7104 May 06 03:26	21°  03'42	26°16'22	desc. node	7105 Apr 18 12:00	4°  47'30	
	7104 May 13 11:50	0° 		morning max el	7105 Apr 18 12:42	4°  49'16	24°56'04
	7104 Jun 02 15:38	0° 			7105 May 07 21:14	0° 	
morning set	7104 Jun 11 05:06	15°  12'35		morning set	7105 May 24 13:49	27°  48'17'31	
max. Earth dist.	7104 Jun 15 04:20	22°  14'12	1.34995 AU		7105 May 26 02:05	0° 	
	7104 Jun 18 19:25	0° 		max. Earth dist.	7105 May 28 04:48	3°  51'27	1.36928 AU
superior conj	7104 Jun 20 05:58	2°  55'43	-0°30'28	superior conj	7105 Jun 03 16:46	16°  13'57	-1°01'35
minimum elong	7104 Jun 20 07:42	3°  04'33	0°30'12	minimum elong	7105 Jun 03 20:25	16°  31'49	1°01'01
asc. node	7104 Jun 23 06:57	9°  12'25		asc. node	7105 Jun 10 03:57	29°  08'58	
evening rise	7104 Jun 27 22:42	18°  53'54			7105 Jun 10 14:04	0° 	
	7104 Jul 03 12:06	0° 		evening rise	7105 Jun 12 02:15	3°  02'05	
evening max el	7104 Jul 16 14:05	19°  23'26	20°39'15		7105 Jun 28 08:02	0° 	
retrograde	7104 Jul 27 21:15	24°  05'52		evening max el	7105 Jun 29 02:48	0°  48'02	19°30'21
desc. node	7104 Jul 28 14:12	24°  05'38		retrograde	7105 Jul 08 16:52	5°  31'09	
evening set	7104 Jul 29 22:54	24°  04'26		evening set	7105 Jul 10 13:58	5°  21'03	
inferior conj	7104 Aug 08 04:46	20°  05'31	-3°07'08	desc. node	7105 Jul 15 11:14	3°  33'00	
minimum elong	7104 Aug 07 20:28	21°  02'23	3°04'24	inferior conj	7105 Jul 19 07:08	1°  15'25	-1°09'47
min. Earth dist.	7104 Aug 09 05:32	20°  15'02	0.54797 AU	minimum elong	7105 Jul 19 03:59	1°  20'28	1°08'38
morning rise	7104 Aug 16 17:43	16°  04'48'19			7105 Jul 21 06:14	30° 	
direct	7104 Aug 20 16:42	16°  04'44		min. Earth dist.	7105 Jul 21 18:11	29°  41'15	0.55641 AU
morning max el	7104 Sep 02 21:23	22°  35'52	23°15'25	morning rise	7105 Jul 27 15:30	26°  41'41	
	7104 Sep 09 09:54	0° 		direct	7105 Aug 01 09:45	25°  50'51	
asc. node	7104 Sep 19 06:19	15°  07'29			7105 Aug 12 01:09	0° 	
morning set	7104 Sep 26 03:34	29°  03'50'3		morning max el	7105 Aug 15 10:19	2°  52'54	24°59'42
	7104 Sep 26 08:17	0° 			7105 Sep 03 10:53	0° 	
				asc. node	7105 Sep 06 03:19	5°  10'00	
superior conj	7104 Oct 03 03:18	14°  03'22	1°40'40	morning set	7105 Sep 10 15:14	14°  02'51'14	
minimum elong	7104 Oct 03 02:29	14°  03'58	1°40'39				
max. Earth dist.	7104 Oct 05 21:51	20°  03'14	1.33521 AU	superior conj	7105 Sep 17 12:40	29°  02'60'2	1°33'27
evening rise	7104 Oct 10 19:42	0° 		minimum elong	7105 Sep 17 10:57	29°  16'39	1°33'18
	7104 Oct 10 12:36	0° 			7105 Sep 17 18:52	0° 	
desc. node	7104 Oct 24 13:20	25°  14'26		max. Earth dist.	7105 Sep 19 01:41	2°  48'15	1.32487 AU
	7104 Oct 27 14:23	0° 		evening rise	7105 Sep 24 17:10	14°  04'08	
evening max el	7104 Nov 14 03:09	22°  08'28	27°19'19		7105 Oct 02 13:45	0° 	
retrograde	7104 Nov 27 14:59	29°  07'16		desc. node	7105 Oct 11 10:21	14°  04'49'16	
evening set	7104 Dec 04 13:16	26°  05'16			7105 Oct 22 16:03	0° 	
min. Earth dist.	7104 Dec 08 09:11	23°  08'28	0.64585 AU	evening max el	7105 Oct 27 13:27	5°  09'16	27°27'30
inferior conj	7104 Dec 10 17:28	20°  07'40'08	-1°50'23	retrograde	7105 Nov 10 07:21	12°  07'25'16	
minimum elong	7104 Dec 10 20:48	20°  07'38'10	1°48'56	evening set	7105 Nov 17 10:33	9°  07'56'15	
asc. node	7104 Dec 16 05:38	15°  07'50'51		min. Earth dist.	7105 Nov 21 02:38	6°  07'54'32	0.62817 AU
morning rise	7104 Dec 17 05:44	15°  07'19'52		inferior conj	7105 Nov 23 22:02	4°  07'12'14	-2°57'45
direct	7104 Dec 19 19:05	14°  07'46'06		minimum elong	7105 Nov 24 03:29	3°  07'59'06	2°55'42

	7105 Nov 28 22:57	30° $\text{R}\text{M}$		minimum elong	7106 Nov 06 19:47	16° $\text{M}$ 56'21	4°01'06
morning rise	7105 Nov 30 22:19	29° $\text{M}$ 02'11		morning rise	7106 Nov 14 01:21	12° $\text{M}$ 21'07	
direct	7105 Dec 03 06:23	28° $\text{M}$ 36'59		direct	7106 Nov 16 07:14	12° $\text{M}$ 01'04	
asc. node	7105 Dec 03 02:39	28° $\text{M}$ 37'05		asc. node	7106 Nov 19 23:41	12° $\text{M}$ 57'36	
	7105 Dec 07 11:14	0° $\text{A}$		morning max el	7106 Nov 23 13:18	15° $\text{M}$ 38'09	18°00'04
morning max el	7105 Dec 09 23:01	2° $\text{A}$ 02'59	17°48'34		7106 Dec 03 12:33	0° $\text{A}$	
morning set	7105 Dec 26 00:41	26° $\text{A}$ 53'33		morning set	7106 Dec 09 05:41	10° $\text{A}$ 23'06	
	7105 Dec 27 19:02	0° $\text{B}$					
superior conj	7106 Jan 06 16:53	17° $\text{B}$ 02'22	0°05'03	superior conj	7106 Dec 19 07:33	28° $\text{A}$ 42'20	0°42'40
minimum elong	7106 Jan 06 17:24	17° $\text{B}$ 04'29	0°05'02	minimum elong	7106 Dec 19 10:44	28° $\text{A}$ 56'21	0°42'17
behind sun begin	7106 Jan 06 08:39	16° $\text{B}$ 27'53			7106 Dec 20 01:14	0° $\text{B}$	
behind sun end	7106 Jan 07 02:08	17° $\text{B}$ 41'01		desc. node	7106 Dec 25 06:35	8° $\text{B}$ 58'05	
desc. node	7106 Jan 07 09:36	18° $\text{B}$ 12'05		max. Earth dist.	7106 Dec 26 21:56	11° $\text{B}$ 42'31	1.42202 AU
max. Earth dist.	7106 Jan 13 09:47	28° $\text{B}$ 01'56	1.43886 AU	evening rise	7107 Jan 01 16:09	21° $\text{B}$ 04'14	
	7106 Jan 14 15:14	0° $\text{A}$			7107 Jan 07 09:20	0° $\text{A}$	
evening rise	7106 Jan 21 17:31	11° $\text{A}$ 08'47		evening max el	7107 Jan 28 13:34	0° $\text{H}$	
	7106 Feb 03 05:53	0° $\text{H}$		retrograde	7107 Feb 03 14:56	6° $\text{H}$ 55'16	22°27'30
evening max el	7106 Feb 20 21:01	23° $\text{H}$ 16'16	21°10'58	asc. node	7107 Feb 13 09:15	12° $\text{H}$ 43'08	
asc. node	7106 Mar 01 01:48	28° $\text{H}$ 22'01		evening set	7107 Feb 15 22:52	12° $\text{H}$ 09'18	
retrograde	7106 Mar 01 12:39	28° $\text{H}$ 23'05		inferior conj	7107 Feb 18 00:58	10° $\text{H}$ 49'04	
evening set	7106 Mar 05 17:23	26° $\text{H}$ 44'07		minimum elong	7107 Feb 23 09:22	4° $\text{H}$ 26'38	2°15'06
inferior conj	7106 Mar 11 00:59	20° $\text{H}$ 30'06	2°48'03	min. Earth dist.	7107 Feb 23 07:04	4° $\text{H}$ 34'37	2°14'25
minimum elong	7106 Mar 10 22:48	20° $\text{H}$ 37'42	2°47'33		7107 Feb 23 05:27	4° $\text{H}$ 40'13	0.68302 AU
min. Earth dist.	7106 Mar 11 09:07	20° $\text{H}$ 01'56	0.68062 AU	morning rise	7107 Feb 26 19:27	30° $\text{R}$ $\text{A}$	
morning rise	7106 Mar 16 04:02	14° $\text{H}$ 16'35		direct	7107 Feb 28 13:01	28° $\text{A}$ 16'57	
direct	7106 Mar 21 10:00	11° $\text{H}$ 58'14			7107 Mar 05 04:45	26° $\text{A}$ 20'13	
morning max el	7106 Mar 31 21:56	18° $\text{H}$ 13'08	23°27'08	morning max el	7107 Mar 12 13:50	0° $\text{H}$	
desc. node	7106 Apr 05 09:01	23° $\text{H}$ 09'38		desc. node	7107 Mar 14 09:56	1° $\text{H}$ 43'58	21°59'02
	7106 Apr 10 18:37	0° $\text{Y}$			7107 Mar 23 06:01	12° $\text{H}$ 16'59	
	7106 Apr 30 23:40	0° $\text{B}$		morning set	7107 Apr 04 16:39	0° $\text{Y}$	
morning set	7106 May 05 23:56	8° $\text{B}$ 16'47		max. Earth dist.	7107 Apr 16 06:28	17° $\text{Y}$ 57'43	
max. Earth dist.	7106 May 10 00:35	15° $\text{B}$ 11'49	1.39117 AU		7107 Apr 21 22:46	27° $\text{Y}$ 16'16	1.41315 AU
					7107 Apr 23 13:45	0° $\text{B}$	
superior conj	7106 May 17 13:47	28° $\text{B}$ 50'19	-1°31'13	superior conj	7107 Apr 29 16:24	10° $\text{B}$ 33'33	-1°55'39
minimum elong	7106 May 17 18:59	29° $\text{B}$ 14'37	1°30'35	minimum elong	7107 Apr 29 21:39	10° $\text{B}$ 56'48	1°55'16
	7106 May 18 04:42	0° $\text{I}$		evening rise	7107 May 10 06:32	29° $\text{B}$ 50'52	
evening rise	7106 May 26 22:04	16° $\text{I}$ 44'23			7107 May 10 08:30	0° $\text{I}$	
asc. node	7106 May 28 00:58	18° $\text{I}$ 54'18		asc. node	7107 May 14 22:00	8° $\text{I}$ 22'56	
	7106 Jun 03 00:02	0° $\text{C}$		evening max el	7107 May 26 11:04	25° $\text{I}$ 37'02	18°14'12
evening max el	7106 Jun 12 02:59	12° $\text{C}$ 55'31	18°42'07	retrograde	7107 Jun 02 12:35	29° $\text{I}$ 09'53	
retrograde	7106 Jun 20 05:24	16° $\text{C}$ 55'53		evening set	7107 Jun 04 21:53	28° $\text{I}$ 46'19	
evening set	7106 Jun 22 07:15	16° $\text{C}$ 41'01		inferior conj	7107 Jun 12 00:28	24° $\text{I}$ 02'55	1°58'34
inferior conj	7106 Jun 30 05:01	12° $\text{C}$ 17'58	0°37'48	minimum elong	7107 Jun 12 03:38	23° $\text{I}$ 56'00	1°57'33
minimum elong	7106 Jun 30 06:26	12° $\text{C}$ 15'20	0°37'13	min. Earth dist.	7107 Jun 15 10:04	21° $\text{I}$ 06'27	0.59383 AU
desc. node	7106 Jul 02 08:16	10° $\text{C}$ 42'05		morning rise	7107 Jun 19 06:22	18° $\text{I}$ 21'49	
min. Earth dist.	7106 Jul 03 11:13	9° $\text{C}$ 53'07	0.57272 AU	desc. node	7107 Jun 19 05:19	18° $\text{I}$ 23'21	
morning rise	7106 Jul 08 02:08	7° $\text{C}$ 07'09		direct	7107 Jun 25 14:41	16° $\text{I}$ 30'34	
direct	7106 Jul 13 17:20	5° $\text{C}$ 48'43		morning max el	7107 Jul 09 23:38	24° $\text{I}$ 21'23	27°30'18
morning max el	7106 Jul 28 02:00	13° $\text{C}$ 21'00	26°29'25		7107 Jul 15 02:48	0° $\text{C}$	
	7106 Aug 10 05:41	0° $\text{Q}$			7107 Aug 03 11:37	0° $\text{Q}$	
asc. node	7106 Aug 24 00:20	24° $\text{Q}$ 51'55		morning set	7107 Aug 10 09:15	13° $\text{Q}$ 43'12	
morning set	7106 Aug 26 01:42	29° $\text{Q}$ 09'51		asc. node	7107 Aug 10 21:20	14° $\text{Q}$ 46'40	
	7106 Aug 26 11:08	0° $\text{P}$					
superior conj	7106 Sep 02 00:08	14° $\text{P}$ 18'31	1°20'52	superior conj	7107 Aug 17 11:52	29° $\text{Q}$ 08'13	1°03'27
minimum elong	7106 Sep 01 21:57	14° $\text{P}$ 06'22	1°20'34	minimum elong	7107 Aug 17 09:39	28° $\text{Q}$ 55'57	1°03'03
max. Earth dist.	7106 Sep 02 10:35	15° $\text{P}$ 16'20	1.31901 AU	max. Earth dist.	7107 Aug 16 21:09	27° $\text{Q}$ 46'46	1.31758 AU
evening rise	7106 Sep 08 21:30	29° $\text{P}$ 17'01			7107 Aug 17 21:13	0° $\text{P}$	
	7106 Sep 09 05:42	0° $\text{U}$		evening rise	7107 Aug 24 06:19	13° $\text{P}$ 57'31	
	7106 Sep 25 18:16	0° $\text{M}$			7107 Sep 01 06:40	0° $\text{U}$	
desc. node	7106 Sep 28 07:22	3° $\text{M}$ 45'13		desc. node	7107 Sep 15 04:25	21° $\text{U}$ 46'40	
evening max el	7106 Oct 09 18:56	17° $\text{M}$ 30'21	27°02'59	evening max el	7107 Sep 21 17:25	29° $\text{U}$ 03'17	26°05'15
retrograde	7106 Oct 23 16:18	24° $\text{M}$ 41'25			7107 Sep 22 18:05	0° $\text{M}$	
evening set	7106 Oct 30 16:28	22° $\text{M}$ 31'50		retrograde	7107 Oct 05 16:08	6° $\text{M}$ 08'40	
min. Earth dist.	7106 Nov 03 09:30	19° $\text{M}$ 51'00	0.60814 AU	evening set	7107 Oct 12 02:12	4° $\text{M}$ 29'45	
inferior conj	7106 Nov 06 12:57	17° $\text{M}$ 10'55	-4°03'07	min. Earth dist.	7107 Oct 16 06:24	1° $\text{M}$ 54'52	0.58732 AU
					7107 Oct 18 20:46	30° $\text{R}$ $\text{U}$	

inferior conj	7107 Oct 19 10:44	29° $\Omega$ 33'58	-4°57'48	inferior conj	7108 Sep 29 12:35	11° $\Omega$ 12'04	-5°27'29
minimum elong	7107 Oct 19 16:50	29° $\Omega$ 22'39	4°56'40	minimum elong	7108 Sep 29 14:12	11° $\Omega$ 09'27	5°27'24
morning rise	7107 Oct 27 09:44	25° $\Omega$ 06'33		morning rise	7108 Oct 07 19:05	7° $\Omega$ 06'47	
direct	7107 Oct 29 17:29	24° $\Omega$ 48'34		direct	7108 Oct 10 09:23	6° $\Omega$ 48'09	
asc. node	7107 Nov 06 20:44	28° $\Omega$ 44'18		morning max el	7108 Oct 19 19:33	11° $\Omega$ 15'08	19°25'11
morning max el	7107 Nov 06 21:21	28° $\Omega$ 45'46	18°31'44	asc. node	7108 Oct 23 17:46	15° $\Omega$ 41'56	
	7107 Nov 08 02:11	0° $\mathbb{M}$			7108 Nov 01 11:32	0° $\mathbb{M}$	
morning set	7107 Nov 22 23:03	24° $\mathbb{M}$ 27'15		morning set	7108 Nov 06 00:44	8° $\mathbb{M}$ 54'04	
	7107 Nov 25 19:55	0° $\mathbb{X}$					
superior conj	7107 Dec 01 20:14	11° $\mathbb{X}$ 25'32	1°10'48	superior conj	7108 Nov 14 01:37	24° $\mathbb{M}$ 56'39	1°29'26
minimum elong	7107 Dec 01 23:46	11° $\mathbb{X}$ 41'58	1°10'27	minimum elong	7108 Nov 14 04:13	25° $\mathbb{M}$ 09'23	1°29'17
max. Earth dist.	7107 Dec 09 05:38	24° $\mathbb{X}$ 43'25	1.40166 AU		7108 Nov 16 16:23	0° $\mathbb{X}$	
desc. node	7107 Dec 12 03:35	29° $\mathbb{X}$ 42'54		max. Earth dist.	7108 Nov 20 11:16	7° $\mathbb{X}$ 05'16	1.38022 AU
	7107 Dec 12 07:39	0° $\mathbb{Z}$		evening rise	7108 Nov 24 04:57	13° $\mathbb{X}$ 47'56	
evening rise	7107 Dec 13 11:27	1° $\mathbb{Z}$ 56'35		desc. node	7108 Nov 28 00:36	20° $\mathbb{X}$ 22'16	
	7107 Dec 31 17:14	0° $\approx$			7108 Dec 03 22:23	0° $\mathbb{Z}$	
evening max el	7108 Jan 17 05:36	20° $\approx$ 38'18	23°47'36		7108 Dec 25 15:35	0° $\approx$	
retrograde	7108 Jan 28 02:46	27° $\approx$ 02'59		evening max el	7108 Dec 29 18:44	4° $\approx$ 24'06	25°04'44
evening set	7108 Feb 02 06:44	24° $\approx$ 54'10		retrograde	7109 Jan 10 16:02	11° $\approx$ 17'18	
asc. node	7108 Feb 02 19:56	24° $\approx$ 24'45		evening set	7109 Jan 16 09:05	8° $\approx$ 55'03	
min. Earth dist.	7108 Feb 07 02:08	19° $\approx$ 19'18	0.68151 AU	asc. node	7109 Jan 19 17:01	5° $\approx$ 23'01	
inferior conj	7108 Feb 07 17:26	18° $\approx$ 27'09	1°33'52	min. Earth dist.	7109 Jan 20 20:49	3° $\approx$ 54'41	0.67620 AU
minimum elong	7108 Feb 07 15:30	18° $\approx$ 33'44	1°33'12	inferior conj	7109 Jan 21 23:21	2° $\approx$ 27'53	0°45'00
morning rise	7108 Feb 13 00:15	12° $\approx$ 22'58		minimum elong	7109 Jan 21 22:17	2° $\approx$ 31'24	0°44'38
direct	7108 Feb 17 02:19	10° $\approx$ 48'45			7109 Jan 23 21:52	30° $\mathbb{R}$ $\mathbb{Z}$	
morning max el	7108 Feb 25 04:18	15° $\approx$ 26'03	20°39'26	morning rise	7109 Jan 27 11:43	26° $\mathbb{Z}$ 31'02	
	7108 Mar 07 18:02	0° $\mathbb{H}$		direct	7109 Jan 31 01:12	25° $\mathbb{Z}$ 18'04	
desc. node	7108 Mar 09 03:00	1° $\mathbb{H}$ 57'18		morning max el	7109 Feb 07 06:41	29° $\mathbb{Z}$ 19'48	19°32'58
morning set	7108 Mar 25 11:45	26° $\mathbb{H}$ 30'57			7109 Feb 07 22:27	0° $\approx$	
	7108 Mar 27 17:17	0° $\mathbb{Y}$		greatest brilliancy	7109 Feb 20 03:34	16° $\approx$ 15'00	-0.7m
max. Earth dist.	7108 Apr 03 04:21	10° $\mathbb{Y}$ 17'20	1.43237 AU	desc. node	7109 Feb 23 23:59	22° $\approx$ 01'06	
					7109 Mar 01 05:42	0° $\mathbb{H}$	
superior conj	7108 Apr 09 20:02	21° $\mathbb{Y}$ 14'07	-2°09'38	morning set	7109 Mar 04 09:01	4° $\mathbb{H}$ 49'30	
minimum elong	7108 Apr 09 22:12	21° $\mathbb{Y}$ 23'15	2°09'37	max. Earth dist.	7109 Mar 16 17:16	24° $\mathbb{H}$ 05'13	1.44636 AU
	7108 Apr 14 23:51	0° $\mathbb{B}$			7109 Mar 20 10:23	0° $\mathbb{Y}$	
evening rise	7108 Apr 21 23:22	12° $\mathbb{B}$ 12'15		superior conj	7109 Mar 20 22:32	0° $\mathbb{Y}$ 48'40	-2°07'12
asc. node	7108 Apr 30 19:03	27° $\mathbb{B}$ 29'10		minimum elong	7109 Mar 20 18:16	0° $\mathbb{Y}$ 31'32	2°07'04
	7108 May 02 08:37	0° $\mathbb{II}$		evening rise	7109 Apr 03 19:58	23° $\mathbb{Y}$ 39'04	
evening max el	7108 May 08 23:21	8° $\mathbb{II}$ 43'13	18°05'49		7109 Apr 07 14:37	0° $\mathbb{B}$	
retrograde	7108 May 15 11:38	12° $\mathbb{II}$ 04'37		asc. node	7109 Apr 17 16:07	16° $\mathbb{B}$ 05'20	
evening set	7108 May 18 04:11	11° $\mathbb{II}$ 29'49		evening max el	7109 Apr 22 12:29	22° $\mathbb{B}$ 04'57	18°16'22
inferior conj	7108 May 24 14:59	6° $\mathbb{II}$ 26'11	2°50'31	retrograde	7109 Apr 28 21:59	25° $\mathbb{B}$ 29'43	
minimum elong	7108 May 24 17:45	6° $\mathbb{II}$ 19'13	2°49'52	evening set	7109 May 01 21:21	24° $\mathbb{B}$ 42'13	
min. Earth dist.	7108 May 27 16:37	3° $\mathbb{II}$ 22'43	0.61623 AU	inferior conj	7109 May 07 20:27	19° $\mathbb{B}$ 19'53	3°18'10
morning rise	7108 May 31 05:20	0° $\mathbb{II}$ 25'21		minimum elong	7109 May 07 21:55	19° $\mathbb{B}$ 15'45	3°17'58
	7108 May 31 20:38	30° $\mathbb{R}$ $\mathbb{B}$		min. Earth dist.	7109 May 10 08:24	16° $\mathbb{B}$ 31'37	0.63705 AU
desc. node	7108 Jun 05 02:22	28° $\mathbb{B}$ 15'05		morning rise	7109 May 13 21:21	13° $\mathbb{B}$ 08'15	
direct	7108 Jun 06 22:59	28° $\mathbb{B}$ 04'36		direct	7109 May 20 16:03	10° $\mathbb{B}$ 27'43	
	7108 Jun 13 11:49	0° $\mathbb{II}$		desc. node	7109 May 22 23:24	10° $\mathbb{B}$ 44'23	
morning max el	7108 Jun 21 03:38	6° $\mathbb{II}$ 04'32	27°54'22	morning max el	7109 Jun 03 12:15	18° $\mathbb{B}$ 28'20	27°40'58
	7108 Jul 09 04:27	0° $\mathbb{E}$			7109 Jun 13 05:02	0° $\mathbb{II}$	
morning set	7108 Jul 24 11:59	27° $\mathbb{E}$ 59'43			7109 Jul 02 02:08	0° $\mathbb{E}$	
	7108 Jul 25 11:19	0° $\mathbb{O}$		morning set	7109 Jul 08 07:35	11° $\mathbb{E}$ 52'56	
asc. node	7108 Jul 27 18:21	4° $\mathbb{O}$ 49'26		max. Earth dist.	7109 Jul 13 08:10	22° $\mathbb{E}$ 10'54	1.32827 AU
max. Earth dist.	7108 Jul 30 05:37	10° $\mathbb{O}$ 08'35	1.32064 AU	asc. node	7109 Jul 14 15:22	24° $\mathbb{E}$ 56'04	
superior conj	7108 Jul 31 22:04	13° $\mathbb{O}$ 49'29	0°41'39	superior conj	7109 Jul 16 04:53	28° $\mathbb{E}$ 16'46	0°15'59
minimum elong	7108 Jul 31 20:19	13° $\mathbb{O}$ 39'54	0°41'15	minimum elong	7109 Jul 16 04:06	28° $\mathbb{E}$ 12'37	0°15'44
evening rise	7108 Aug 07 17:33	28° $\mathbb{O}$ 42'10		behind sun begin	7109 Jul 16 03:11	28° $\mathbb{E}$ 07'40	
	7108 Aug 08 08:09	0° $\mathbb{N}$		behind sun end	7109 Jul 16 05:02	28° $\mathbb{E}$ 17'34	
	7108 Aug 25 01:54	0° $\mathbb{A}$			7109 Jul 17 00:02	0° $\mathbb{O}$	
desc. node	7108 Sep 01 01:29	8° $\mathbb{A}$ 31'40		evening rise	7109 Jul 23 05:17	13° $\mathbb{O}$ 25'06	
evening max el	7108 Sep 02 08:22	9° $\mathbb{A}$ 48'33	24°40'23		7109 Jul 31 13:20	0° $\mathbb{N}$	
retrograde	7108 Sep 16 04:28	16° $\mathbb{A}$ 46'22		evening max el	7109 Aug 14 20:09	20° $\mathbb{N}$ 06'10	23°02'18
evening set	7108 Sep 21 11:31	15° $\mathbb{A}$ 43'45		desc. node	7109 Aug 18 22:33	23° $\mathbb{N}$ 31'39	
min. Earth dist.	7108 Sep 26 19:31	12° $\mathbb{A}$ 56'32	0.56820 AU	retrograde	7109 Aug 28 04:32	26° $\mathbb{N}$ 46'42	

evening set	7109 Aug 31 23:22	26° $\mathbb{M}$ 15'21		evening rise	7110 Jul 07 15:31	27° $\mathfrak{G}$ 59'09	
min. Earth dist.	7109 Sep 08 04:46	22° $\mathbb{M}$ 58'47	0.55387 AU		7110 Jul 08 14:43	0° $\mathcal{O}$	
inferior conj	7109 Sep 09 19:01	22° $\mathbb{M}$ 03'31	-5°13'59		7110 Jul 27 01:14	0° $\mathbb{M}$	
minimum elong	7109 Sep 09 13:31	22° $\mathbb{M}$ 11'29	5°13'19	evening max el	7110 Jul 27 13:24	0° $\mathbb{M}$ 30'28	21°27'29
morning rise	7109 Sep 18 05:50	18° $\mathbb{M}$ 13'28		desc. node	7110 Aug 05 19:37	6° $\mathbb{M}$ 12'51	
direct	7109 Sep 21 06:18	17° $\mathbb{M}$ 51'59		retrograde	7110 Aug 08 18:57	6° $\mathbb{M}$ 34'05	
morning max el	7109 Oct 02 05:32	22° $\mathbb{M}$ 59'00	20°40'47	evening set	7110 Aug 11 06:25	6° $\mathbb{M}$ 20'01	
	7109 Oct 08 05:02	0° $\underline{\mathfrak{A}}$		inferior conj	7110 Aug 20 13:03	2° $\mathbb{M}$ 21'07	-4°06'31
asc. node	7109 Oct 10 14:47	3° $\underline{\mathfrak{A}}$ 35'34		minimum elong	7110 Aug 20 03:44	2° $\mathbb{M}$ 34'10	4°04'02
morning set	7109 Oct 21 07:52	23° $\underline{\mathfrak{A}}$ 35'24		min. Earth dist.	7110 Aug 20 14:02	2° $\mathbb{M}$ 19'43	0.54737 AU
	7109 Oct 24 10:03	0° $\mathbb{M}$			7110 Aug 24 23:27	30° $\mathfrak{R}$ $\mathcal{O}$	
				morning rise	7110 Aug 29 02:00	28° $\mathcal{O}$ 29'05	
superior conj	7109 Oct 28 19:04	9° $\mathbb{M}$ 02'41	1°39'31	direct	7110 Sep 01 15:23	28° $\mathcal{O}$ 01'41	
minimum elong	7109 Oct 28 20:17	9° $\mathbb{M}$ 08'55	1°39'30		7110 Sep 08 20:00	0° $\mathbb{M}$	
max. Earth dist.	7109 Nov 02 19:15	19° $\mathbb{M}$ 02'19	1.36009 AU	morning max el	7110 Sep 14 03:29	3° $\mathbb{M}$ 56'19	22°15'30
evening rise	7109 Nov 06 17:59	26° $\mathbb{M}$ 31'53		asc. node	7110 Sep 27 11:47	22° $\mathbb{M}$ 11'27	
	7109 Nov 08 15:28	0° $\mathfrak{X}$			7110 Oct 01 15:31	0° $\underline{\mathfrak{A}}$	
desc. node	7109 Nov 14 21:39	10° $\mathfrak{X}$ 51'59		morning set	7110 Oct 05 18:08	8° $\underline{\mathfrak{A}}$ 23'57	
	7109 Nov 27 08:41	0° $\mathfrak{Z}$					
evening max el	7109 Dec 12 07:38	18° $\mathfrak{Z}$ 09'12	26°11'43	superior conj	7110 Oct 12 20:51	23° $\underline{\mathfrak{A}}$ 31'49	1°42'08
retrograde	7109 Dec 25 00:25	25° $\mathfrak{Z}$ 20'39		minimum elong	7110 Oct 12 20:43	23° $\underline{\mathfrak{A}}$ 31'04	1°42'10
evening set	7109 Dec 31 06:18	22° $\mathfrak{Z}$ 47'59			7110 Oct 15 23:09	0° $\mathbb{M}$	
min. Earth dist.	7110 Jan 04 11:15	18° $\mathfrak{Z}$ 22'28	0.66720 AU	max. Earth dist.	7110 Oct 16 10:03	0° $\mathbb{M}$ 55'57	1.34311 AU
inferior conj	7110 Jan 06 01:13	16° $\mathfrak{Z}$ 25'36	-0°10'50	evening rise	7110 Oct 20 22:32	9° $\mathbb{M}$ 57'45	
minimum elong	7110 Jan 06 01:30	16° $\mathfrak{Z}$ 24'42	0°10'38		7110 Nov 01 02:34	0° $\mathfrak{X}$	
transit middle	7110 Jan 06 01:30	16° $\mathfrak{Z}$ 24'42	0°10'38	desc. node	7110 Nov 01 18:41	1° $\mathfrak{X}$ 06'11	
transit begin	7110 Jan 05 23:21	16° $\mathfrak{Z}$ 31'21			7110 Nov 23 01:52	0° $\mathfrak{Z}$	
transit end	7110 Jan 06 03:39	16° $\mathfrak{Z}$ 18'05		evening max el	7110 Nov 24 20:33	1° $\mathfrak{Z}$ 46'16	27°01'25
asc. node	7110 Jan 06 14:04	15° $\mathfrak{Z}$ 46'08		retrograde	7110 Dec 08 03:16	9° $\mathfrak{Z}$ 05'36	
morning rise	7110 Jan 11 21:22	10° $\mathfrak{Z}$ 38'16		evening set	7110 Dec 14 20:23	6° $\mathfrak{Z}$ 27'58	
direct	7110 Jan 14 23:50	9° $\mathfrak{Z}$ 43'35		min. Earth dist.	7110 Dec 18 19:15	2° $\mathfrak{Z}$ 36'59	0.65457 AU
morning max el	7110 Jan 21 16:24	13° $\mathfrak{Z}$ 22'12	18°42'00	inferior conj	7110 Dec 20 20:53	0° $\mathfrak{Z}$ 15'55	-1°12'41
	7110 Feb 02 22:58	0° $\approx$		minimum elong	7110 Dec 20 23:00	0° $\mathfrak{Z}$ 09'53	1°11'42
desc. node	7110 Feb 10 20:58	12° $\approx$ 22'06			7110 Dec 21 02:29	30° $\mathfrak{R}$ $\mathfrak{X}$	
morning set	7110 Feb 11 22:47	14° $\approx$ 03'34		asc. node	7110 Dec 24 11:06	26° $\mathfrak{X}$ 31'08	
	7110 Feb 22 02:36	0° $\mathfrak{X}$		morning rise	7110 Dec 27 02:47	24° $\mathfrak{X}$ 40'31	
max. Earth dist.	7110 Feb 27 10:51	8° $\mathfrak{X}$ 22'06	1.45362 AU	direct	7110 Dec 29 20:10	24° $\mathfrak{X}$ 00'23	
				morning max el	7111 Jan 05 07:15	27° $\mathfrak{X}$ 27'01	18°07'36
superior conj	7110 Feb 28 06:07	9° $\mathfrak{X}$ 37'37	-1°44'43		7111 Jan 07 14:23	0° $\mathfrak{Z}$	
minimum elong	7110 Feb 27 20:47	9° $\mathfrak{X}$ 01'01	1°43'52	morning set	7111 Jan 23 17:43	24° $\mathfrak{Z}$ 46'14	
	7110 Mar 13 03:21	0° $\mathbb{Y}$			7111 Jan 26 22:42	0° $\approx$	
evening rise	7110 Mar 15 17:15	4° $\mathbb{Y}$ 07'40		desc. node	7111 Jan 28 17:58	2° $\approx$ 55'27	
greatest brilliancy	7110 Mar 23 06:02	16° $\mathbb{Y}$ 11'55	-0.9m				
	7110 Apr 01 08:53	0° $\mathfrak{B}$		superior conj	7111 Feb 07 11:59	18° $\approx$ 29'53	-1°05'37
asc. node	7110 Apr 04 13:10	4° $\mathfrak{B}$ 01'43		minimum elong	7111 Feb 07 04:16	17° $\approx$ 59'28	1°04'36
evening max el	7110 Apr 05 23:44	5° $\mathfrak{B}$ 35'13	18°45'02	max. Earth dist.	7111 Feb 10 06:10	22° $\approx$ 50'14	1.45349 AU
retrograde	7110 Apr 12 15:23	9° $\mathfrak{B}$ 16'09			7111 Feb 14 20:06	0° $\mathfrak{X}$	
evening set	7110 Apr 15 21:44	8° $\mathfrak{B}$ 15'06		evening rise	7111 Feb 23 16:59	13° $\mathfrak{X}$ 47'19	
inferior conj	7110 Apr 21 12:52	2° $\mathfrak{B}$ 35'51	3°26'52		7111 Mar 06 05:17	0° $\mathbb{Y}$	
minimum elong	7110 Apr 21 12:54	2° $\mathfrak{B}$ 35'44	3°26'50	greatest brilliancy	7111 Mar 08 10:02	3° $\mathbb{Y}$ 19'20	-0.7m
min. Earth dist.	7110 Apr 23 09:26	0° $\mathfrak{B}$ 18'35	0.65465 AU	evening max el	7111 Mar 20 07:05	19° $\mathbb{Y}$ 10'08	19°30'35
	7110 Apr 23 15:37	30° $\mathfrak{R}$ $\mathbb{Y}$		asc. node	7111 Mar 22 10:13	21° $\mathbb{Y}$ 06'51	
morning rise	7110 Apr 27 03:29	26° $\mathbb{Y}$ 19'40		retrograde	7111 Mar 27 12:32	23° $\mathbb{Y}$ 18'06	
direct	7110 May 03 16:41	23° $\mathbb{Y}$ 31'38		evening set	7111 Mar 31 02:39	22° $\mathbb{Y}$ 02'49	
desc. node	7110 May 09 20:24	25° $\mathbb{Y}$ 30'42		inferior conj	7111 Apr 05 12:56	16° $\mathbb{Y}$ 08'29	3°20'48
	7110 May 15 13:21	0° $\mathfrak{B}$		minimum elong	7111 Apr 05 11:48	16° $\mathbb{Y}$ 12'14	3°20'41
morning max el	7110 May 16 22:39	1° $\mathfrak{B}$ 21'34	26°54'44	min. Earth dist.	7111 Apr 06 18:29	14° $\mathbb{Y}$ 31'20	0.66820 AU
	7110 Jun 07 07:25	0° $\mathbb{I}$		morning rise	7111 Apr 10 20:37	9° $\mathbb{Y}$ 51'41	
morning set	7110 Jun 21 16:55	25° $\mathbb{I}$ 13'07		direct	7111 Apr 16 23:43	7° $\mathbb{Y}$ 08'06	
	7110 Jun 24 03:59	0° $\mathfrak{G}$		desc. node	7111 Apr 26 17:24	12° $\mathbb{Y}$ 02'11	
max. Earth dist.	7110 Jun 26 00:57	3° $\mathfrak{G}$ 43'58	1.34064 AU	morning max el	7111 Apr 29 08:26	14° $\mathbb{Y}$ 31'57	25°43'56
					7111 May 11 23:24	0° $\mathfrak{B}$	
superior conj	7110 Jun 30 06:02	12° $\mathfrak{G}$ 22'43	-0°12'52		7111 May 31 02:54	0° $\mathbb{I}$	
minimum elong	7110 Jun 30 06:44	12° $\mathfrak{G}$ 26'22	0°12'48	morning set	7111 Jun 04 12:02	7° $\mathbb{I}$ 49'25	
behind sun begin	7110 Jun 30 03:16	12° $\mathfrak{G}$ 08'18		max. Earth dist.	7111 Jun 08 06:18	14° $\mathbb{I}$ 50'55	1.35766 AU
behind sun end	7110 Jun 30 10:11	12° $\mathfrak{G}$ 44'26					
asc. node	7110 Jul 01 12:22	15° $\mathfrak{G}$ 01'44		superior conj	7111 Jun 13 22:59	26° $\mathbb{I}$ 00'41	-0°43'39



































































































































minimum elong	7111 Jun 14 01:31	26° $\Pi$ 13'27	0°43'15	minimum elong	7112 May 27 08:48	9° $\Pi$ 23'07	1°13'54
	7111 Jun 15 22:16	0° $\mathfrak{E}$		asc. node	7112 Jun 04 06:25	24° $\Pi$ 54'48	
asc. node	7111 Jun 18 09:23	5° $\mathfrak{E}$ 02'47		evening rise	7112 Jun 04 22:46	26° $\Pi$ 15'49	
evening rise	7111 Jun 21 22:11	12° $\mathfrak{E}$ 18'26			7112 Jun 06 20:20	0° $\mathfrak{E}$	
	7111 Jul 01 05:34	0° $\Omega$		evening max el	7112 Jun 21 12:43	23° $\mathfrak{E}$ 13'37	19°07'21
evening max el	7111 Jul 09 18:42	11° $\Omega$ 30'17	20°07'33	retrograde	7112 Jun 30 10:11	27° $\mathfrak{E}$ 36'25	
retrograde	7111 Jul 20 08:33	16° $\Omega$ 42'22		evening set	7112 Jul 02 08:52	27° $\mathfrak{E}$ 24'43	
evening set	7111 Jul 22 06:20	16° $\Omega$ 32'57		desc. node	7112 Jul 09 13:39	24° $\mathfrak{E}$ 00'24	
desc. node	7111 Jul 23 16:38	16° $\Omega$ 14'13		inferior conj	7112 Jul 10 18:07	23° $\mathfrak{E}$ 12'32	-0°21'30
inferior conj	7111 Jul 31 08:17	12° $\Omega$ 34'14	-2°18'06	minimum elong	7112 Jul 10 17:12	23° $\mathfrak{E}$ 14'06	0°21'12
minimum elong	7111 Jul 31 01:55	12° $\Omega$ 43'43	2°15'49	min. Earth dist.	7112 Jul 13 15:31	21° $\mathfrak{E}$ 15'09	0.56257 AU
min. Earth dist.	7111 Aug 02 01:19	11° $\Omega$ 33'11	0.55045 AU	morning rise	7112 Jul 18 22:27	18° $\mathfrak{E}$ 23'11	
morning rise	7111 Aug 08 20:03	8° $\Omega$ 19'51		direct	7112 Jul 24 02:02	17° $\mathfrak{E}$ 21'30	
direct	7111 Aug 13 02:47	7° $\Omega$ 39'58		morning max el	7112 Aug 07 06:49	24° $\mathfrak{E}$ 37'31	25°40'35
morning max el	7111 Aug 26 17:38	14° $\Omega$ 20'24	24°00'19		7112 Aug 12 05:45	0° $\Omega$	
	7111 Sep 07 22:51	0° $\mathfrak{P}$			7112 Aug 30 19:39	0° $\mathfrak{P}$	
asc. node	7111 Sep 14 08:46	11° $\mathfrak{P}$ 19'20		asc. node	7112 Aug 31 05:47	0° $\mathfrak{P}$ 50'52	
morning set	7111 Sep 20 05:46	23° $\mathfrak{P}$ 14'46		morning set	7112 Sep 03 17:09	8° $\mathfrak{P}$ 03'13	
	7111 Sep 23 09:05	0° $\mathfrak{L}$					
superior conj	7111 Sep 27 04:08	8° $\mathfrak{L}$ 15'28	1°38'17	superior conj	7112 Sep 10 14:39	23° $\mathfrak{P}$ 06'38	1°28'44
minimum elong	7111 Sep 27 02:53	8° $\mathfrak{L}$ 08'43	1°38'14	minimum elong	7112 Sep 10 12:40	22° $\mathfrak{P}$ 55'46	1°28'31
max. Earth dist.	7111 Sep 29 09:26	13° $\mathfrak{L}$ 02'45	1.33030 AU	max. Earth dist.	7112 Sep 11 15:58	25° $\mathfrak{P}$ 25'58	1.32187 AU
evening rise	7111 Oct 04 14:49	23° $\mathfrak{L}$ 55'39			7112 Sep 13 18:09	0° $\mathfrak{L}$	
	7111 Oct 07 16:39	0° $\mathfrak{M}$		evening rise	7112 Sep 17 15:34	8° $\mathfrak{L}$ 16'34	
desc. node	7111 Oct 19 15:43	20° $\mathfrak{M}$ 57'54			7112 Sep 29 02:23	0° $\mathfrak{M}$	
	7111 Oct 25 17:06	0° $\mathfrak{J}$		desc. node	7112 Oct 05 12:44	10° $\mathfrak{M}$ 18'04	
evening max el	7111 Nov 07 08:34	15° $\mathfrak{J}$ 04'38	27°26'36	evening max el	7112 Oct 19 17:29	27° $\mathfrak{M}$ 51'32	27°21'18
retrograde	7111 Nov 20 23:48	22° $\mathfrak{J}$ 23'05			7112 Oct 22 03:41	0° $\mathfrak{J}$	
evening set	7111 Nov 28 00:42	19° $\mathfrak{J}$ 48'27		retrograde	7112 Nov 02 13:02	5° $\mathfrak{J}$ 04'43	
min. Earth dist.	7111 Dec 01 18:42	16° $\mathfrak{J}$ 29'53	0.63862 AU	evening set	7112 Nov 09 16:02	2° $\mathfrak{J}$ 42'54	
inferior conj	7111 Dec 04 07:49	13° $\mathfrak{J}$ 52'32	-2°18'52		7112 Nov 13 03:54	30° $\mathfrak{R}$ $\mathfrak{M}$	
minimum elong	7111 Dec 04 12:04	13° $\mathfrak{J}$ 41'34	2°17'08	min. Earth dist.	7112 Nov 13 07:53	29° $\mathfrak{M}$ 51'17	0.61989 AU
morning rise	7111 Dec 11 01:05	8° $\mathfrak{J}$ 32'02		inferior conj	7112 Nov 16 07:06	27° $\mathfrak{M}$ 08'24	-3°26'05
asc. node	7111 Dec 11 08:08	8° $\mathfrak{J}$ 25'25		minimum elong	7112 Nov 16 13:17	26° $\mathfrak{M}$ 54'13	3°23'58
direct	7111 Dec 13 11:46	8° $\mathfrak{J}$ 02'25		morning rise	7112 Nov 23 12:34	22° $\mathfrak{M}$ 06'13	
morning max el	7111 Dec 20 00:20	11° $\mathfrak{J}$ 26'26	17°50'20	direct	7112 Nov 25 19:20	21° $\mathfrak{M}$ 43'31	
	7112 Jan 01 16:25	0° $\mathfrak{Z}$		asc. node	7112 Nov 27 05:10	21° $\mathfrak{M}$ 52'27	
morning set	7112 Jan 05 16:16	6° $\mathfrak{Z}$ 49'37		morning max el	7112 Dec 02 16:37	25° $\mathfrak{M}$ 13'13	17°51'02
desc. node	7112 Jan 15 14:57	23° $\mathfrak{Z}$ 36'28			7112 Dec 06 15:56	0° $\mathfrak{J}$	
				morning set	7112 Dec 18 12:03	19° $\mathfrak{J}$ 53'50	
superior conj	7112 Jan 18 10:33	28° $\mathfrak{Z}$ 13'42	-0°20'06		7112 Dec 24 03:42	0° $\mathfrak{Z}$	
minimum elong	7112 Jan 18 08:18	28° $\mathfrak{Z}$ 04'32	0°19'42	superior conj	7112 Dec 29 10:41	9° $\mathfrak{Z}$ 12'01	0°22'04
	7112 Jan 19 12:43	0° $\approx$		minimum elong	7112 Dec 29 12:40	9° $\mathfrak{Z}$ 20'29	0°21'51
max. Earth dist.	7112 Jan 24 00:44	7° $\approx$ 13'19	1.44612 AU	desc. node	7113 Jan 01 11:58	14° $\mathfrak{Z}$ 21'51	
evening rise	7112 Feb 03 04:34	23° $\approx$ 04'27		max. Earth dist.	7113 Jan 05 16:21	21° $\mathfrak{Z}$ 16'11	1.43235 AU
	7112 Feb 07 17:28	0° $\mathfrak{H}$			7113 Jan 11 03:11	0° $\approx$	
	7112 Feb 28 20:44	0° $\mathfrak{Y}$		evening rise	7113 Jan 12 19:14	2° $\approx$ 37'04	
evening max el	7112 Mar 02 09:17	2° $\mathfrak{Y}$ 46'58	20°30'54		7113 Jan 31 05:07	0° $\mathfrak{H}$	
asc. node	7112 Mar 08 07:17	7° $\mathfrak{Y}$ 06'18		evening max el	7113 Feb 13 06:05	16° $\mathfrak{H}$ 25'18	21°42'42
retrograde	7112 Mar 10 10:54	7° $\mathfrak{Y}$ 30'20		retrograde	7113 Feb 22 08:35	21° $\mathfrak{H}$ 49'01	
evening set	7112 Mar 14 09:57	6° $\mathfrak{Y}$ 00'10		asc. node	7113 Feb 23 04:20	21° $\mathfrak{H}$ 45'29	
inferior conj	7112 Mar 19 17:57	29° $\mathfrak{H}$ 52'47	3°02'55	evening set	7113 Feb 26 17:55	20° $\mathfrak{H}$ 03'31	
minimum elong	7112 Mar 19 16:01	29° $\mathfrak{H}$ 59'24	3°02'33	inferior conj	7113 Mar 04 01:40	13° $\mathfrak{H}$ 45'40	2°35'06
	7112 Mar 19 15:50	30° $\mathfrak{R}$ $\mathfrak{H}$		minimum elong	7113 Mar 03 23:23	13° $\mathfrak{H}$ 53'38	2°34'30
min. Earth dist.	7112 Mar 20 09:34	28° $\mathfrak{H}$ 59'20	0.67740 AU	min. Earth dist.	7113 Mar 04 04:33	13° $\mathfrak{H}$ 35'40	0.68224 AU
morning rise	7112 Mar 24 21:51	23° $\mathfrak{H}$ 37'44		morning rise	7113 Mar 09 04:41	7° $\mathfrak{H}$ 33'50	
direct	7112 Mar 30 12:02	21° $\mathfrak{H}$ 08'11		direct	7113 Mar 14 04:40	5° $\mathfrak{H}$ 24'22	
morning max el	7112 Apr 10 17:10	27° $\mathfrak{H}$ 50'40	24°18'37	morning max el	7113 Mar 24 03:05	11° $\mathfrak{H}$ 16'42	22°48'59
desc. node	7112 Apr 12 14:24	29° $\mathfrak{H}$ 49'56		desc. node	7113 Mar 30 11:25	18° $\mathfrak{H}$ 32'48	
	7112 Apr 12 18:04	0° $\mathfrak{Y}$			7113 Apr 07 23:34	0° $\mathfrak{Y}$	
	7112 May 04 16:03	0° $\mathfrak{B}$		morning set	7113 Apr 27 10:27	29° $\mathfrak{Y}$ 53'17	
morning set	7112 May 16 11:45	19° $\mathfrak{B}$ 27'27			7113 Apr 27 12:04	0° $\mathfrak{B}$	
max. Earth dist.	7112 May 20 03:28	25° $\mathfrak{B}$ 55'37	1.37841 AU	max. Earth dist.	7113 May 01 23:54	7° $\mathfrak{B}$ 33'31	1.40076 AU
	7112 May 22 09:09	0° $\Pi$					
superior conj	7112 May 27 04:24	9° $\Pi$ 01'58	-1°14'32	superior conj	7113 May 09 18:11	21° $\mathfrak{B}$ 16'49	-1°42'30
				minimum elong	7113 May 09 23:41	21° $\mathfrak{B}$ 41'56	1°41'56

	7113 May 14 11:07	0°♂		superior conj	7114 Apr 21 11:32	2°♂34'15	-2°03'12
evening rise	7113 May 19 14:14	9°♂43'43		minimum elong	7114 Apr 21 15:57	2°♂53'22	2°03'01
asc. node	7113 May 22 03:27	14°♂33'26		evening rise	7114 May 02 16:40	22°♂32'45	
	7113 May 31 03:14	0°♂			7114 May 06 19:37	0°♂	
evening max el	7113 Jun 04 16:41	5°♂36'02	18°27'44	asc. node	7114 May 09 00:31	3°♂53'36	
retrograde	7113 Jun 12 06:55	9°♂22'44		evening max el	7114 May 19 02:56	18°♂29'01	18°08'15
evening set	7113 Jun 14 11:58	9°♂04'28		retrograde	7114 May 25 21:40	21°♂55'33	
inferior conj	7113 Jun 22 01:13	4°♂32'28	1°15'47	evening set	7114 May 28 09:58	21°♂27'33	
minimum elong	7113 Jun 22 03:43	4°♂27'29	1°14'51	inferior conj	7114 Jun 04 05:20	16°♂35'12	2°23'54
min. Earth dist.	7113 Jun 25 10:26	1°♂51'38	0.58132 AU	minimum elong	7114 Jun 04 08:31	16°♂27'48	2°23'00
desc. node	7113 Jun 26 10:43	1°♂06'58		min. Earth dist.	7114 Jun 07 12:29	13°♂32'44	0.60331 AU
	7113 Jun 28 02:55	30°♂♂		morning rise	7114 Jun 11 04:26	10°♂44'07	
morning rise	7113 Jun 29 16:08	29°♂07'44		desc. node	7114 Jun 13 07:46	9°♂36'04	
direct	7113 Jul 05 15:21	27°♂35'50		direct	7114 Jun 17 17:30	8°♂39'37	
	7113 Jul 13 09:13	0°♂		morning max el	7114 Jul 02 01:32	16°♂35'49	27°45'22
morning max el	7113 Jul 20 00:45	5°♂16'28	26°59'42		7114 Jul 13 02:17	0°♂	
	7113 Aug 07 05:41	0°♂			7114 Jul 30 19:21	0°♂	
asc. node	7113 Aug 18 02:47	20°♂38'36		morning set	7114 Aug 03 08:23	7°♂10'34	
morning set	7113 Aug 19 02:36	22°♂43'27		asc. node	7114 Aug 04 23:48	10°♂37'24	
	7113 Aug 22 11:45	0°♂		max. Earth dist.	7114 Aug 09 12:27	20°♂25'28	1.31829 AU
superior conj	7113 Aug 26 02:25	7°♂58'08	1°14'03	superior conj	7114 Aug 10 13:43	22°♂44'46	0°54'43
minimum elong	7113 Aug 26 00:09	7°♂45'35	1°13'42	minimum elong	7114 Aug 10 11:38	22°♂33'17	0°54'18
max. Earth dist.	7113 Aug 26 02:13	7°♂57'03	1.31785 AU		7114 Aug 13 20:33	0°♂	
evening rise	7113 Sep 01 22:04	22°♂51'30		evening rise	7114 Aug 17 08:09	7°♂34'12	
	7113 Sep 05 08:59	0°♂			7114 Aug 28 22:11	0°♂	
desc. node	7113 Sep 22 09:48	28°♂53'04		desc. node	7114 Sep 09 06:51	16°♂24'51	
	7113 Sep 23 05:37	0°♂		evening max el	7114 Sep 13 15:04	21°♂02'59	25°31'43
evening max el	7113 Oct 01 20:15	9°♂52'45	26°42'19	retrograde	7114 Sep 27 13:22	28°♂06'28	
retrograde	7113 Oct 15 18:00	17°♂00'52		evening set	7114 Oct 03 13:39	26°♂42'26	
evening set	7113 Oct 22 13:58	15°♂03'00		min. Earth dist.	7114 Oct 08 03:04	24°♂04'47	0.57880 AU
min. Earth dist.	7113 Oct 26 10:06	12°♂27'06	0.59931 AU	inferior conj	7114 Oct 11 04:36	21°♂57'04	-5°14'31
inferior conj	7113 Oct 29 15:10	9°♂53'04	-4°28'17	minimum elong	7114 Oct 11 09:19	21°♂48'51	5°13'54
minimum elong	7113 Oct 29 22:04	9°♂39'13	4°26'34	morning rise	7114 Oct 19 07:19	17°♂39'48	
morning rise	7113 Nov 06 08:23	5°♂12'40		direct	7114 Oct 21 17:14	17°♂21'56	
direct	7113 Nov 08 14:41	4°♂53'44		morning max el	7114 Oct 30 09:01	21°♂30'17	18°51'48
asc. node	7113 Nov 14 02:12	6°♂51'08		asc. node	7114 Oct 31 23:14	23°♂09'30	
morning max el	7113 Nov 16 04:42	8°♂37'46	18°10'59		7114 Nov 06 00:19	0°♂	
	7113 Nov 30 00:04	0°♂		morning set	7114 Nov 15 20:10	17°♂54'11	
morning set	7113 Dec 01 22:53	3°♂39'47			7114 Nov 22 00:20	0°♂	
superior conj	7113 Dec 11 11:24	21°♂20'51	0°55'47	superior conj	7114 Nov 24 07:49	4°♂26'10	1°19'49
minimum elong	7113 Dec 11 14:57	21°♂36'51	0°55'23	minimum elong	7114 Nov 24 11:03	4°♂41'33	1°19'32
	7113 Dec 16 08:56	0°♂		max. Earth dist.	7114 Dec 01 08:57	17°♂23'56	1.39250 AU
max. Earth dist.	7113 Dec 19 02:56	4°♂42'12	1.41372 AU	evening rise	7114 Dec 05 06:51	24°♂12'16	
desc. node	7113 Dec 19 08:58	5°♂07'36		desc. node	7114 Dec 06 05:59	25°♂50'20	
evening rise	7113 Dec 24 02:01	12°♂54'58			7114 Dec 08 17:53	0°♂	
	7114 Jan 04 01:38	0°♂			7114 Dec 28 20:38	0°♂	
	7114 Jan 26 20:10	0°♂		evening max el	7115 Jan 09 11:55	13°♂48'54	24°21'08
evening max el	7114 Jan 26 22:19	0°♂05'25	23°01'25	retrograde	7115 Jan 20 20:02	20°♂27'39	
retrograde	7114 Feb 06 04:03	6°♂09'40		evening set	7115 Jan 26 05:29	18°♂12'44	
asc. node	7114 Feb 10 01:24	4°♂53'24		asc. node	7115 Jan 27 22:29	16°♂32'35	
evening set	7114 Feb 11 00:58	4°♂08'56		min. Earth dist.	7115 Jan 30 21:24	12°♂52'26	0.67968 AU
	7114 Feb 14 18:17	30°♂♂		inferior conj	7115 Jan 31 17:33	11°♂44'46	1°14'01
inferior conj	7114 Feb 16 10:09	27°♂43'57	1°58'33	minimum elong	7115 Jan 31 15:55	11°♂50'15	1°13'27
minimum elong	7114 Feb 16 07:57	27°♂51'33	1°57'51	morning rise	7115 Feb 06 02:27	5°♂43'27	
min. Earth dist.	7114 Feb 16 01:15	28°♂14'42	0.68289 AU	direct	7115 Feb 09 22:52	4°♂18'45	
morning rise	7114 Feb 21 14:53	21°♂36'38		morning max el	7115 Feb 17 15:25	8°♂39'48	20°09'17
direct	7114 Feb 26 00:38	19°♂49'45		desc. node	7115 Mar 04 05:23	27°♂46'08	
morning max el	7114 Mar 06 17:37	24°♂52'29	21°23'48		7115 Mar 05 17:41	0°♂	
	7114 Mar 11 07:12	0°♂		morning set	7115 Mar 17 04:09	17°♂20'13	
desc. node	7114 Mar 17 08:25	7°♂55'13			7115 Mar 25 06:27	0°♂	
	7114 Apr 01 09:56	0°♂		max. Earth dist.	7115 Mar 27 09:48	3°♂24'30	1.43901 AU
morning set	7114 Apr 07 05:18	9°♂02'23					
max. Earth dist.	7114 Apr 14 01:23	20°♂03'44	1.42181 AU	superior conj	7115 Apr 02 04:20	12°♂45'33	-2°10'56
	7114 Apr 19 23:37	0°♂		minimum elong	7115 Apr 02 04:02	12°♂44'21	2°10'58
					7115 Apr 12 10:25	0°♂	



evening rise	7115 Apr 15 01:25	4°♄31'32		superior conj	7116 Mar 11 21:30	21°♄57'20	-2°00'07
asc. node	7115 Apr 25 21:35	22°♄47'59		minimum elong	7116 Mar 11 14:28	21°♄29'31	1°59'42
	7115 May 01 02:07	0°♄			7116 Mar 16 22:39	0°♄	
evening max el	7115 May 02 15:56	1°♄42'26	18°08'04	evening rise	7116 Mar 26 12:17	15°♄33'21	
retrograde	7115 May 09 02:00	5°♄03'45			7116 Apr 04 07:49	0°♄	
evening set	7115 May 11 21:22	4°♄23'50		asc. node	7116 Apr 11 18:38	11°♄08'33	
	7115 May 17 08:32	30°♄		evening max el	7116 Apr 15 04:38	15°♄08'48	18°26'25
inferior conj	7115 May 18 02:44	29°♄12'19	3°04'50	retrograde	7116 Apr 21 15:39	18°♄38'38	
minimum elong	7115 May 18 05:00	29°♄06'17	3°04'25	evening set	7116 Apr 24 17:59	17°♄45'28	
min. Earth dist.	7115 May 20 23:05	26°♄12'33	0.62536 AU	inferior conj	7116 Apr 30 13:17	12°♄15'58	3°23'51
morning rise	7115 May 24 10:59	23°♄05'43		minimum elong	7116 Apr 30 14:08	12°♄13'29	3°23'45
direct	7115 May 31 06:01	20°♄34'47		min. Earth dist.	7116 May 02 18:51	9°♄39'14	0.64509 AU
desc. node	7115 May 31 04:48	20°♄34'48		morning rise	7116 May 06 09:26	6°♄01'59	
morning max el	7115 Jun 14 07:51	28°♄37'11	27°53'01	direct	7116 May 13 02:42	3°♄16'25	
	7115 Jun 15 15:59	0°♄		desc. node	7116 May 17 01:49	4°♄05'55	
	7115 Jul 06 22:49	0°♄		morning max el	7116 May 26 17:18	11°♄13'53	27°24'42
morning set	7115 Jul 18 08:21	21°♄17'41			7116 Jun 10 13:47	0°♄	
asc. node	7115 Jul 22 20:49	0°♄42'02			7116 Jun 28 10:13	0°♄	
	7115 Jul 22 12:55	0°♄		morning set	7116 Jun 30 23:57	4°♄57'25	
max. Earth dist.	7115 Jul 23 18:38	2°♄38'47	1.32327 AU	max. Earth dist.	7116 Jul 05 17:06	14°♄27'27	1.33296 AU
				asc. node	7116 Jul 08 17:50	20°♄48'31	
superior conj	7115 Jul 25 22:42	7°♄20'23	0°31'12	superior conj	7116 Jul 09 03:22	21°♄39'10	0°04'05
minimum elong	7115 Jul 25 21:18	7°♄12'47	0°30'50	minimum elong	7116 Jul 09 03:10	21°♄38'04	0°03'57
evening rise	7115 Aug 01 19:47	22°♄18'04		behind sun begin	7116 Jul 08 21:50	21°♄09'44	
	7115 Aug 05 12:24	0°♄		behind sun end	7116 Jul 09 08:30	22°♄06'26	
	7115 Aug 24 15:12	0°♄			7116 Jul 13 00:53	0°♄	
evening max el	7115 Aug 26 03:43	1°♄32'12	23°59'17	evening rise	7116 Jul 16 07:05	6°♄57'31	
desc. node	7115 Aug 27 03:55	2°♄28'41			7116 Jul 28 12:07	0°♄	
retrograde	7115 Sep 08 20:53	8°♄25'02		evening max el	7116 Aug 06 16:53	11°♄48'31	22°20'44
evening set	7115 Sep 13 12:42	7°♄37'15		desc. node	7116 Aug 13 00:58	16°♄33'18	
min. Earth dist.	7115 Sep 19 14:19	4°♄39'04	0.56125 AU	retrograde	7116 Aug 19 15:43	18°♄15'04	
inferior conj	7115 Sep 21 21:46	3°♄14'19	-5°28'05	evening set	7116 Aug 22 19:33	17°♄53'03	
minimum elong	7115 Sep 21 20:25	3°♄16'23	5°28'02	min. Earth dist.	7116 Aug 30 23:19	14°♄19'46	0.55000 AU
	7115 Sep 27 23:28	30°♄		inferior conj	7116 Aug 31 21:34	13°♄48'24	-4°51'51
morning rise	7115 Sep 30 06:24	29°♄16'46		minimum elong	7116 Aug 31 13:39	13°♄59'35	4°50'23
direct	7115 Oct 03 00:25	28°♄57'19		morning rise	7116 Sep 09 09:28	9°♄59'44	
	7115 Oct 07 18:51	0°♄		direct	7116 Sep 12 15:16	9°♄36'02	
morning max el	7115 Oct 13 02:14	3°♄40'45	19°54'45	morning max el	7116 Sep 24 06:39	15°♄03'11	21°19'09
asc. node	7115 Oct 18 20:14	10°♄32'16		asc. node	7116 Oct 04 17:14	28°♄45'02	
	7115 Oct 29 19:12	0°♄			7116 Oct 05 10:58	0°♄	
morning set	7115 Oct 31 00:27	2°♄27'33		morning set	7116 Oct 14 09:08	17°♄12'17	
					7116 Oct 20 11:25	0°♄	
superior conj	7115 Nov 07 18:49	18°♄13'19	1°34'41	superior conj	7116 Oct 21 16:09	2°♄29'42	1°41'28
minimum elong	7115 Nov 07 20:52	18°♄23'29	1°34'36	minimum elong	7116 Oct 21 16:47	2°♄32'57	1°41'30
max. Earth dist.	7115 Nov 13 14:33	29°♄30'51	1.37132 AU	max. Earth dist.	7116 Oct 26 01:09	11°♄24'11	1.35239 AU
	7115 Nov 13 20:45	0°♄		evening rise	7116 Oct 30 05:14	19°♄30'09	
evening rise	7115 Nov 17 09:07	6°♄27'16			7116 Nov 04 23:40	0°♄	
desc. node	7115 Nov 23 03:00	16°♄26'11		desc. node	7116 Nov 09 00:01	6°♄49'54	
	7115 Dec 01 14:55	0°♄			7116 Nov 24 16:27	0°♄	
evening max el	7115 Dec 23 00:53	27°♄35'26	25°34'58	evening max el	7116 Dec 04 14:03	11°♄18'53	26°35'33
	7115 Dec 25 16:11	0°♄		retrograde	7116 Dec 17 13:24	18°♄34'15	
retrograde	7116 Jan 04 07:27	4°♄38'12		evening set	7116 Dec 24 00:18	15°♄59'02	
evening set	7116 Jan 10 05:53	2°♄11'14		min. Earth dist.	7116 Dec 28 02:42	11°♄48'08	0.66224 AU
	7116 Jan 12 11:14	30°♄		inferior conj	7116 Dec 29 21:30	9°♄40'29	-0°36'23
min. Earth dist.	7116 Jan 14 14:42	27°♄25'22	0.67276 AU	minimum elong	7116 Dec 29 22:30	9°♄37'28	0°35'52
asc. node	7116 Jan 14 19:31	27°♄10'03		asc. node	7116 Dec 31 16:33	7°♄35'21	
inferior conj	7116 Jan 15 22:00	25°♄45'16	0°22'09	morning rise	7117 Jan 04 21:32	3°♄57'39	
minimum elong	7116 Jan 15 21:26	25°♄47'04	0°22'00	direct	7117 Jan 07 19:59	3°♄09'29	
morning rise	7116 Jan 21 13:23	19°♄51'54		morning max el	7117 Jan 14 09:12	6°♄41'37	18°25'19
direct	7116 Jan 24 21:56	18°♄47'08			7117 Jan 30 16:44	0°♄	
morning max el	7116 Jan 31 21:05	22°♄37'54	19°09'15	morning set	7117 Feb 03 07:35	5°♄46'27	
	7116 Feb 06 23:35	0°♄		desc. node	7117 Feb 04 23:20	8°♄24'52	
greatest brilliancy	7116 Feb 14 10:16	10°♄49'55	-0.7m		7117 Feb 18 15:26	0°♄	
desc. node	7116 Feb 19 02:22	17°♄58'09		superior conj	7117 Feb 19 01:50	0°♄40'46	-1°29'39
morning set	7116 Feb 24 05:51	25°♄55'16					
	7116 Feb 26 20:55	0°♄					
max. Earth dist.	7116 Mar 09 00:42	17°♄25'49	1.45036 AU				

minimum elong	7117 Feb 18 16:21	0° $\text{X}$ 03'35	1°28'37	superior conj	7118 Jan 29 12:52	9° $\approx$ 49'30	-0°46'25
max. Earth dist.	7117 Feb 19 19:45	1° $\text{X}$ 50'55	1.45456 AU	minimum elong	7118 Jan 29 07:22	9° $\approx$ 27'34	0°45'37
evening rise	7117 Mar 06 23:48	25° $\text{X}$ 39'10		max. Earth dist.	7118 Feb 02 15:33	16° $\approx$ 20'30	1.45125 AU
	7117 Mar 09 17:56	0° $\text{Y}$			7118 Feb 11 09:41	0° $\text{X}$	
greatest brilliancy	7117 Mar 16 22:34	11° $\text{Y}$ 17'26	-0.8m	evening rise	7118 Feb 14 16:46	5° $\text{X}$ 05'05	
evening max el	7117 Mar 29 14:31	28° $\text{Y}$ 41'52	19°02'25	greatest brilliancy	7118 Mar 01 00:02	26° $\text{X}$ 46'17	-0.6m
asc. node	7117 Mar 29 15:41	28° $\text{Y}$ 44'49			7118 Mar 03 05:17	0° $\text{Y}$	
	7117 Mar 30 23:44	0° $\text{Z}$		evening max el	7118 Mar 12 19:44	12° $\text{Y}$ 17'27	19°54'32
retrograde	7117 Apr 05 10:57	2° $\text{Z}$ 32'39		asc. node	7118 Mar 16 12:44	15° $\text{Y}$ 23'48	
evening set	7117 Apr 08 20:36	1° $\text{Z}$ 25'25		retrograde	7118 Mar 20 09:00	16° $\text{Y}$ 39'41	
	7117 Apr 10 14:57	30° $\text{R}$ $\text{Y}$		evening set	7118 Mar 24 02:48	15° $\text{Y}$ 17'57	
inferior conj	7117 Apr 14 09:20	25° $\text{Y}$ 39'30	3°25'53	inferior conj	7118 Mar 29 11:48	9° $\text{Y}$ 17'30	3°14'32
minimum elong	7117 Apr 14 08:49	25° $\text{Y}$ 41'07	3°25'49	minimum elong	7118 Mar 29 10:16	9° $\text{Y}$ 22'38	3°14'19
min. Earth dist.	7117 Apr 15 23:21	23° $\text{Y}$ 38'48	0.66103 AU	min. Earth dist.	7118 Mar 30 11:10	7° $\text{Y}$ 59'06	0.67265 AU
morning rise	7117 Apr 19 20:38	19° $\text{Y}$ 22'57		morning rise	7118 Apr 03 17:31	3° $\text{Y}$ 01'16	
direct	7117 Apr 26 06:02	16° $\text{Y}$ 35'39		direct	7118 Apr 09 15:15	0° $\text{Y}$ 23'01	
desc. node	7117 May 03 22:48	19° $\text{Y}$ 40'56		desc. node	7118 Apr 20 19:48	6° $\text{Y}$ 47'54	
morning max el	7117 May 09 03:32	24° $\text{Y}$ 15'26	26°27'01	morning max el	7118 Apr 21 13:01	7° $\text{Y}$ 30'46	25°08'52
	7117 May 14 07:18	0° $\text{Z}$			7118 May 09 01:54	0° $\text{Z}$	
	7117 Jun 03 23:40	0° $\text{II}$		morning set	7118 May 27 15:23	0° $\text{II}$ 13'52	
morning set	7117 Jun 14 03:48	18° $\text{II}$ 00'28			7118 May 27 12:17	0° $\text{II}$	
max. Earth dist.	7117 Jun 18 05:13	25° $\text{II}$ 49'06	1.34739 AU	max. Earth dist.	7118 May 31 06:52	6° $\text{II}$ 53'10	1.36616 AU
	7117 Jun 20 07:40	0° $\text{S}$					
superior conj	7117 Jun 23 01:25	5° $\text{S}$ 34'31	-0°25'47	superior conj	7118 Jun 06 13:55	18° $\text{II}$ 57'50	-0°56'54
minimum elong	7117 Jun 23 02:52	5° $\text{S}$ 41'57	0°25'34	minimum elong	7118 Jun 06 17:17	19° $\text{II}$ 14'26	0°56'22
asc. node	7117 Jun 25 14:51	10° $\text{S}$ 52'59		asc. node	7118 Jun 12 11:52	0° $\text{S}$ 50'42	
evening rise	7117 Jun 30 16:07	21° $\text{S}$ 26'37			7118 Jun 12 01:53	0° $\text{S}$	
	7117 Jul 04 21:29	0° $\text{O}$		evening rise	7118 Jun 14 20:34	5° $\text{S}$ 37'47	
evening max el	7117 Jul 19 14:52	22° $\text{O}$ 25'55	20°51'12		7118 Jun 28 19:08	0° $\text{O}$	
desc. node	7117 Jul 30 22:01	28° $\text{O}$ 08'11		evening max el	7118 Jul 02 01:39	3° $\text{O}$ 43'40	19°39'21
retrograde	7117 Jul 31 04:05	28° $\text{O}$ 08'20		retrograde	7118 Jul 11 21:54	8° $\text{O}$ 34'16	
evening set	7117 Aug 02 07:45	27° $\text{O}$ 57'14		evening set	7118 Jul 13 18:44	8° $\text{O}$ 24'34	
inferior conj	7117 Aug 11 14:18	24° $\text{O}$ 00'10	-3°23'48	desc. node	7118 Jul 17 19:05	7° $\text{O}$ 05'14	
minimum elong	7117 Aug 11 05:32	24° $\text{O}$ 12'36	3°21'02	inferior conj	7118 Jul 22 14:28	4° $\text{O}$ 21'02	-1°27'36
min. Earth dist.	7117 Aug 12 08:56	23° $\text{O}$ 33'42	0.54751 AU	minimum elong	7118 Jul 22 10:27	4° $\text{O}$ 27'19	1°26'08
morning rise	7117 Aug 20 03:25	20° $\text{O}$ 01'24		min. Earth dist.	7118 Jul 24 21:15	2° $\text{O}$ 55'19	0.55457 AU
direct	7117 Aug 23 23:47	19° $\text{O}$ 29'41		morning rise	7118 Jul 30 23:54	29° $\text{S}$ 52'32	
morning max el	7117 Sep 06 00:29	25° $\text{O}$ 43'49	22°59'40		7118 Jul 30 15:18	30° $\text{R}$ $\text{S}$	
	7117 Sep 10 01:02	0° $\text{P}$		direct	7118 Aug 04 14:59	29° $\text{S}$ 04'54	
asc. node	7117 Sep 21 14:13	17° $\text{P}$ 35'59			7118 Aug 09 13:25	0° $\text{O}$	
	7117 Sep 27 20:49	0° $\text{A}$		morning max el	7118 Aug 18 13:36	6° $\text{O}$ 01'52	24°44'37
morning set	7117 Sep 28 20:14	2° $\text{A}$ 02'55			7118 Sep 04 19:18	0° $\text{P}$	
				asc. node	7118 Sep 08 11:14	6° $\text{P}$ 54'42	
superior conj	7117 Oct 05 20:36	17° $\text{A}$ 06'08	1°41'14	morning set	7118 Sep 13 07:58	16° $\text{P}$ 53'22	
minimum elong	7117 Oct 05 19:57	17° $\text{A}$ 02'40	1°41'15		7118 Sep 19 08:45	0° $\text{A}$	
max. Earth dist.	7117 Oct 08 19:58	23° $\text{A}$ 24'06	1.33714 AU	superior conj	7118 Sep 20 05:31	1° $\text{A}$ 53'44	1°34'54
	7117 Oct 12 00:59	0° $\text{M}$		minimum elong	7118 Sep 20 03:55	1° $\text{A}$ 44'59	1°34'47
evening rise	7117 Oct 13 15:14	3° $\text{M}$ 10'55		max. Earth dist.	7118 Sep 21 22:40	5° $\text{A}$ 37'48	1.32614 AU
desc. node	7117 Oct 26 21:04	26° $\text{M}$ 55'44		evening rise	7118 Sep 27 11:28	17° $\text{A}$ 19'11	
	7117 Oct 28 19:30	0° $\text{J}$			7118 Oct 03 23:36	0° $\text{M}$	
evening max el	7117 Nov 17 02:52	24° $\text{J}$ 49'33	27°15'28	desc. node	7118 Oct 13 18:08	16° $\text{M}$ 35'19	
	7117 Nov 23 17:26	0° $\text{S}$			7118 Oct 23 08:43	0° $\text{J}$	
retrograde	7117 Nov 30 13:24	2° $\text{S}$ 08'34		evening max el	7118 Oct 30 13:37	7° $\text{J}$ 54'56	27°28'15
	7117 Dec 06 18:42	30° $\text{R}$ $\text{J}$		retrograde	7118 Nov 13 06:59	15° $\text{J}$ 11'58	
evening set	7117 Dec 07 10:33	29° $\text{J}$ 31'03		evening set	7118 Nov 20 09:48	12° $\text{J}$ 41'03	
min. Earth dist.	7117 Dec 11 07:10	25° $\text{J}$ 54'28	0.64824 AU	min. Earth dist.	7118 Nov 24 02:14	9° $\text{J}$ 35'14	0.63095 AU
inferior conj	7117 Dec 13 13:46	23° $\text{J}$ 25'29	-1°40'21	inferior conj	7118 Nov 26 20:07	6° $\text{J}$ 53'43	-2°47'33
minimum elong	7117 Dec 13 16:46	23° $\text{J}$ 17'16	1°39'02	minimum elong	7118 Nov 27 01:15	6° $\text{J}$ 41'05	2°45'35
asc. node	7117 Dec 18 13:34	18° $\text{J}$ 45'00		morning rise	7118 Dec 03 18:34	1° $\text{J}$ 40'58	
morning rise	7117 Dec 20 00:21	17° $\text{J}$ 56'07		asc. node	7118 Dec 05 10:35	1° $\text{J}$ 17'04	
direct	7117 Dec 22 14:41	17° $\text{J}$ 20'48		direct	7118 Dec 06 03:11	1° $\text{J}$ 14'47	
morning max el	7117 Dec 29 01:22	20° $\text{J}$ 44'51	17°58'10	morning max el	7118 Dec 12 18:34	4° $\text{J}$ 40'01	17°48'27
	7118 Jan 05 03:29	0° $\text{S}$		morning set	7118 Dec 28 23:14	29° $\text{J}$ 36'38	
morning set	7118 Jan 15 14:52	17° $\text{S}$ 05'23			7118 Dec 29 04:35	0° $\text{S}$	
desc. node	7118 Jan 22 20:19	29° $\text{S}$ 01'46					
	7118 Jan 23 10:35	0° $\approx$		superior conj	7119 Jan 09 21:58	20° $\text{S}$ 04'23	-0°01'25

minimum elong	7119 Jan 09 21:50	20°  03'50	0°01'19	superior conj	7119 Dec 22 09:01	1°  33'51	0°37'32
behind sun begin	7119 Jan 09 12:32	19°  25'11		minimum elong	7119 Dec 22 11:58	1°  46'43	0°37'11
behind sun end	7119 Jan 10 07:08	20°  42'25		desc. node	7119 Dec 27 14:20	10°  30'58	
desc. node	7119 Jan 09 17:19	19°  34'50'3		max. Earth dist.	7119 Dec 29 21:54	14°  22'23	1.42481 AU
	7119 Jan 15 23:55	0°  ≈		evening rise	7120 Jan 04 23:54	24°  12'28	
max. Earth dist.	7119 Jan 16 08:52	0°  ≈35'57	1.44089 AU		7120 Jan 08 16:45	0°  ≈	
evening rise	7119 Jan 25 03:40	14°  ≈23'42			7120 Jan 29 11:48	0°  ✕	
	7119 Feb 04 11:15	0°  ✕		evening max el	7120 Feb 06 14:09	9°  ✕33'26	22°15'47
evening max el	7119 Feb 23 19:29	25°  ✕54'35	21°00'16	retrograde	7120 Feb 16 04:22	15°  ✕15'03	
	7119 Feb 28 22:37	0°  ∩		asc. node	7120 Feb 18 06:52	14°  ✕52'13	
asc. node	7119 Mar 03 09:47	0°  ∩51'10		evening set	7120 Feb 20 18:22	13°  ✕23'16	
retrograde	7119 Mar 04 07:26	0°  ∩55'25		inferior conj	7120 Feb 26 02:32	7°  ✕01'59	2°20'37
	7119 Mar 07 10:48	30°  ✕✕		minimum elong	7120 Feb 26 00:14	7°  ✕10'01	2°19'59
evening set	7119 Mar 08 10:37	29°  ✕18'47		min. Earth dist.	7120 Feb 26 00:24	7°  ✕09'27	0.68294 AU
inferior conj	7119 Mar 13 18:15	23°  ✕06'23	2°52'17	morning rise	7120 Mar 02 05:56	0°  ✕51'41	
minimum elong	7119 Mar 13 16:07	23°  ✕13'47	2°51'49		7120 Mar 03 09:25	30°  ✕≈	
min. Earth dist.	7119 Mar 14 04:18	22°  ✕31'38	0.67988 AU	direct	7120 Mar 06 23:51	28°  ≈51'28	
morning rise	7119 Mar 18 21:25	16°  ✕52'19			7120 Mar 10 22:10	0°  ✕	
direct	7119 Mar 24 05:31	14°  ✕30'52		morning max el	7120 Mar 16 09:21	4°  ✕22'32	22°11'45
morning max el	7119 Apr 03 22:03	20°  ✕53'24	23°40'32	desc. node	7120 Mar 24 13:46	14°  ✕02'39	
desc. node	7119 Apr 07 16:47	25°  ✕01'34			7120 Apr 04 22:15	0°  ∩	
	7119 Apr 11 17:54	0°  ∩		morning set	7120 Apr 18 16:00	21°  ∩16'12	
	7119 May 02 07:33	0°  ♄			7120 Apr 23 23:02	0°  ♄	
morning set	7119 May 09 05:15	11°  ♄23'50		max. Earth dist.	7120 Apr 24 00:08	0°  ♄04'36	1.41001 AU
max. Earth dist.	7119 May 13 02:39	18°  ♄07'57	1.38783 AU				
	7119 May 19 15:42	0°  ♄		superior conj	7120 May 01 18:58	13°  ♄32'50	-1°52'29
				minimum elong	7120 May 02 00:23	13°  ♄56'58	1°52'03
superior conj	7119 May 20 13:17	1°  ♄41'03	-1°26'58		7120 May 10 18:40	0°  ♄	
minimum elong	7119 May 20 18:19	2°  ♄04'42	1°26'19	evening rise	7120 May 12 04:10	2°  ♄36'23	
evening rise	7119 May 29 17:46	19°  ♄24'12		asc. node	7120 May 16 05:59	10°  ♄09'25	
asc. node	7119 May 30 08:56	20°  ♄37'58		evening max el	7120 May 28 07:33	28°  ♄22'06	18°17'05
	7119 Jun 04 07:21	0°  ♄			7120 May 30 05:01	0°  ♄	
evening max el	7119 Jun 15 00:23	15°  ♄45'04	18°47'59	retrograde	7120 Jun 04 11:55	1°  ♄57'53	
retrograde	7119 Jun 23 07:24	19°  ♄50'41		evening set	7120 Jun 06 20:10	1°  ♄35'44	
evening set	7119 Jun 25 08:18	19°  ♄36'47			7120 Jun 10 02:07	30°  ✕♄	
inferior conj	7119 Jul 03 09:06	15°  ♄16'48	0°23'03	inferior conj	7120 Jun 14 01:25	26°  ♄55'18	1°48'12
minimum elong	7119 Jul 03 10:00	15°  ♄15'10	0°22'38	minimum elong	7120 Jun 14 04:29	26°  ♄48'45	1°47'11
desc. node	7119 Jul 04 16:07	14°  ♄20'02		min. Earth dist.	7120 Jun 17 11:20	24°  ♄02'10	0.59053 AU
min. Earth dist.	7119 Jul 06 13:38	12°  ♄58'24	0.56993 AU	desc. node	7120 Jun 20 13:09	21°  ♄48'38	
morning rise	7119 Jul 11 08:14	10°  ♄11'19		morning rise	7120 Jun 21 09:43	21°  ♄18'14	
direct	7119 Jul 16 20:34	8°  ♄57'21		direct	7120 Jun 27 15:59	19°  ♄31'55	
morning max el	7119 Jul 31 04:28	16°  ♄25'57	26°17'34	morning max el	7120 Jul 12 01:04	27°  ♄20'12	27°23'32
	7119 Aug 11 06:32	0°  ♄			7120 Jul 14 14:24	0°  ♄	
asc. node	7119 Aug 26 08:15	26°  ♄33'48			7120 Aug 03 21:01	0°  ♄	
	7119 Aug 28 00:00	0°  ♄		morning set	7120 Aug 12 02:52	16°  ♄14'22	
morning set	7119 Aug 28 18:44	1°  ♄38'51		asc. node	7120 Aug 12 05:18	16°  ♄27'06	
					7120 Aug 18 11:14	0°  ♄	
superior conj	7119 Sep 04 16:50	16°  ♄45'57	1°23'07	max. Earth dist.	7120 Aug 18 17:40	0°  ♄35'37	1.31750 AU
minimum elong	7119 Sep 04 14:41	16°  ♄34'03	1°22'49				
max. Earth dist.	7119 Sep 05 07:00	18°  ♄04'15	1.31960 AU	superior conj	7120 Aug 19 04:40	1°  ♄36'34	1°06'25
	7119 Sep 10 18:42	0°  ♄		minimum elong	7120 Aug 19 02:25	1°  ♄24'07	1°06'00
evening rise	7119 Sep 11 14:58	1°  ♄46'51		evening rise	7120 Aug 25 23:18	16°  ♄26'30	
	7119 Sep 26 21:53	0°  ♄			7120 Sep 01 16:11	0°  ♄	
desc. node	7119 Sep 30 15:12	5°  ♄38'03		desc. node	7120 Sep 16 12:16	23°  ♄49'10	
evening max el	7119 Oct 12 20:07	20°  ♄23'09	27°08'51		7120 Sep 21 18:13	0°  ♄	
retrograde	7119 Oct 26 17:14	27°  ♄34'53		evening max el	7120 Sep 23 19:54	2°  ♄04'17	26°15'52
evening set	7119 Nov 02 18:21	25°  ♄21'51		retrograde	7120 Oct 07 18:23	9°  ♄10'06	
min. Earth dist.	7119 Nov 06 10:50	22°  ♄38'32	0.61120 AU	evening set	7120 Oct 14 07:27	7°  ♄26'06	
inferior conj	7119 Nov 09 13:20	19°  ♄57'14	-3°53'42	min. Earth dist.	7120 Oct 18 09:08	4°  ♄51'31	0.59041 AU
minimum elong	7119 Nov 09 20:04	19°  ♄42'36	3°51'37	inferior conj	7120 Oct 21 13:57	2°  ♄26'46	-4°50'45
morning rise	7119 Nov 16 23:59	15°  ♄04'04		minimum elong	7120 Oct 21 20:23	2°  ♄14'36	4°49'27
direct	7119 Nov 19 05:55	14°  ♄43'28			7120 Oct 25 00:29	30°  ✕♄	
asc. node	7119 Nov 22 07:39	15°  ♄23'35		morning rise	7120 Oct 29 11:33	27°  ♄55'49	
morning max el	7119 Nov 26 09:32	18°  ♄18'32	17°57'05	direct	7120 Oct 31 18:47	27°  ♄37'40	
	7119 Dec 04 19:34	0°  ♄			7120 Nov 07 00:35	0°  ♄	
morning set	7119 Dec 12 02:05	13°  ♄00'13		asc. node	7120 Nov 08 04:41	0°  ♄58'21	
	7119 Dec 21 11:37	0°  ♄		morning max el	7120 Nov 08 18:44	1°  ♄31'08	18°25'38

morning set	7120 Nov 24 17:55	27° $\mathbb{M}$ 00'27		superior conj	7121 Nov 16 22:00	27° $\mathbb{M}$ 33'49	1°27'11
	7120 Nov 26 07:19	0° $\mathbb{A}$		minimum elong	7121 Nov 17 00:47	27° $\mathbb{M}$ 47'21	1°26'58
					7121 Nov 18 04:17	0° $\mathbb{A}$	
superior conj	7120 Dec 03 18:47	14° $\mathbb{A}$ 08'50	1°07'09	max. Earth dist.	7121 Nov 23 12:10	9° $\mathbb{A}$ 57'50	1.38342 AU
minimum elong	7120 Dec 03 22:22	14° $\mathbb{A}$ 25'22	1°06'46	evening rise	7121 Nov 27 06:13	16° $\mathbb{A}$ 38'44	
max. Earth dist.	7120 Dec 11 06:28	27° $\mathbb{A}$ 30'42	1.40489 AU	desc. node	7121 Nov 30 08:24	21° $\mathbb{A}$ 56'46	
	7120 Dec 12 17:21	0° $\mathbb{B}$			7121 Dec 05 06:07	0° $\mathbb{B}$	
desc. node	7120 Dec 13 11:22	1° $\mathbb{B}$ 16'19			7121 Dec 26 10:04	0° $\mathbb{A}$	
evening rise	7120 Dec 15 15:57	4° $\mathbb{B}$ 56'04		evening max el	7122 Jan 01 18:23	7° $\mathbb{A}$ 00'56	24°53'36
	7120 Dec 31 21:32	0° $\mathbb{A}$		retrograde	7122 Jan 13 12:19	13° $\mathbb{A}$ 50'40	
evening max el	7121 Jan 19 05:12	23° $\mathbb{A}$ 15'44	23°35'39	evening set	7122 Jan 19 03:27	11° $\mathbb{A}$ 30'07	
retrograde	7121 Jan 29 22:20	29° $\mathbb{A}$ 35'03		asc. node	7122 Jan 22 00:57	8° $\mathbb{A}$ 28'58	
evening set	7121 Feb 04 00:30	27° $\mathbb{A}$ 28'17		min. Earth dist.	7122 Jan 23 16:12	6° $\mathbb{A}$ 24'40	0.67726 AU
asc. node	7121 Feb 04 03:55	27° $\mathbb{A}$ 20'57		inferior conj	7122 Jan 24 17:07	5° $\mathbb{A}$ 02'34	0°52'53
inferior conj	7121 Feb 09 10:46	21° $\mathbb{A}$ 01'45	1°40'36	minimum elong	7122 Jan 24 15:53	5° $\mathbb{A}$ 06'40	0°52'27
minimum elong	7121 Feb 09 08:45	21° $\mathbb{A}$ 08'39	1°39'56		7122 Jan 29 00:52	30° $\mathbb{R}$ $\mathbb{B}$	
min. Earth dist.	7121 Feb 08 21:08	21° $\mathbb{A}$ 48'26	0.68204 AU	morning rise	7122 Jan 30 04:31	29° $\mathbb{B}$ 04'38	
morning rise	7121 Feb 14 16:58	14° $\mathbb{A}$ 56'45		direct	7122 Feb 02 19:45	27° $\mathbb{B}$ 48'44	
direct	7121 Feb 18 21:02	13° $\mathbb{A}$ 19'14			7122 Feb 08 00:13	0° $\mathbb{A}$	
morning max el	7121 Feb 27 02:37	18° $\mathbb{A}$ 02'32	20°50'29	morning max el	7122 Feb 10 03:51	1° $\mathbb{A}$ 54'59	19°41'52
	7121 Mar 08 20:21	0° $\mathbb{H}$		greatest brilliancy	7122 Feb 22 23:39	18° $\mathbb{A}$ 40'59	-0.7m
desc. node	7121 Mar 11 10:45	3° $\mathbb{H}$ 38'14		desc. node	7122 Feb 26 07:45	23° $\mathbb{A}$ 38'56	
morning set	7121 Mar 29 00:17	29° $\mathbb{H}$ 56'42			7122 Mar 02 12:29	0° $\mathbb{H}$	
	7121 Mar 29 01:08	0° $\mathbb{Y}$		morning set	7122 Mar 07 21:09	8° $\mathbb{H}$ 12'56	
max. Earth dist.	7121 Apr 06 04:41	12° $\mathbb{Y}$ 57'49	1.42979 AU	max. Earth dist.	7122 Mar 19 16:38	26° $\mathbb{H}$ 39'50	1.44465 AU
					7122 Mar 21 18:55	0° $\mathbb{Y}$	
superior conj	7121 Apr 13 02:11	24° $\mathbb{Y}$ 22'37	-2°08'26				
minimum elong	7121 Apr 13 05:05	24° $\mathbb{Y}$ 34'51	2°08'23	superior conj	7122 Mar 24 08:17	4° $\mathbb{Y}$ 06'18	-2°08'51
	7121 Apr 16 09:23	0° $\mathbb{B}$		minimum elong	7122 Mar 24 05:04	3° $\mathbb{Y}$ 53'21	2°08'45
evening rise	7121 Apr 24 23:35	15° $\mathbb{B}$ 04'47		evening rise	7122 Apr 06 23:27	26° $\mathbb{Y}$ 40'19	
asc. node	7121 May 03 03:02	29° $\mathbb{B}$ 19'18			7122 Apr 08 22:38	0° $\mathbb{B}$	
	7121 May 03 12:51	0° $\mathbb{H}$		asc. node	7122 Apr 20 00:05	18° $\mathbb{B}$ 00'32	
evening max el	7121 May 11 19:23	11° $\mathbb{H}$ 24'50	18°05'52	evening max el	7122 Apr 25 08:33	24° $\mathbb{B}$ 44'31	18°13'39
retrograde	7121 May 18 08:59	14° $\mathbb{H}$ 47'08		retrograde	7122 May 01 17:57	28° $\mathbb{B}$ 08'08	
evening set	7121 May 21 00:28	14° $\mathbb{H}$ 14'06		evening set	7122 May 04 16:15	27° $\mathbb{B}$ 22'39	
inferior conj	7121 May 27 13:20	9° $\mathbb{H}$ 13'15	2°44'16	inferior conj	7122 May 10 16:50	22° $\mathbb{B}$ 03'00	3°15'17
minimum elong	7121 May 27 16:15	9° $\mathbb{H}$ 06'03	2°43'34	minimum elong	7122 May 10 18:31	21° $\mathbb{B}$ 58'19	3°15'01
min. Earth dist.	7121 May 30 16:34	6° $\mathbb{H}$ 09'25	0.61288 AU	min. Earth dist.	7122 May 13 07:01	19° $\mathbb{B}$ 11'10	0.63406 AU
morning rise	7121 Jun 03 05:55	3° $\mathbb{H}$ 14'40		morning rise	7122 May 16 19:32	15° $\mathbb{B}$ 52'21	
desc. node	7121 Jun 07 10:10	1° $\mathbb{H}$ 17'02		direct	7122 May 23 14:28	13° $\mathbb{B}$ 13'59	
direct	7121 Jun 09 22:36	0° $\mathbb{H}$ 57'59		desc. node	7122 May 25 07:10	13° $\mathbb{B}$ 22'59	
morning max el	7121 Jun 24 04:15	8° $\mathbb{H}$ 57'00	27°53'21	morning max el	7122 Jun 06 12:26	21° $\mathbb{B}$ 15'37	27°45'15
	7121 Jul 10 08:56	0° $\mathbb{E}$			7122 Jun 14 02:20	0° $\mathbb{H}$	
	7121 Jul 26 23:52	0° $\mathbb{O}$			7122 Jul 03 11:42	0° $\mathbb{E}$	
morning set	7121 Jul 27 06:26	0° $\mathbb{O}$ 33'45		morning set	7122 Jul 11 03:13	14° $\mathbb{E}$ 30'46	
asc. node	7121 Jul 30 02:18	6° $\mathbb{O}$ 28'59		max. Earth dist.	7122 Jul 16 06:24	25° $\mathbb{E}$ 05'31	1.32681 AU
max. Earth dist.	7121 Aug 02 02:47	12° $\mathbb{O}$ 59'55	1.31988 AU	asc. node	7122 Jul 16 23:18	26° $\mathbb{E}$ 35'16	
superior conj	7121 Aug 03 15:11	16° $\mathbb{O}$ 19'18	0°45'15	superior conj	7122 Jul 18 22:34	0° $\mathbb{O}$ 48'42	0°20'06
minimum elong	7121 Aug 03 13:19	16° $\mathbb{O}$ 09'07	0°44'49	minimum elong	7122 Jul 18 21:37	0° $\mathbb{O}$ 43'34	0°19'50
	7121 Aug 09 21:04	0° $\mathbb{H}$			7122 Jul 18 13:32	0° $\mathbb{O}$	
evening rise	7121 Aug 10 10:16	1° $\mathbb{H}$ 10'50		evening rise	7122 Jul 25 22:00	15° $\mathbb{O}$ 54'00	
	7121 Aug 26 00:46	0° $\mathbb{E}$			7122 Aug 01 21:29	0° $\mathbb{H}$	
desc. node	7121 Sep 03 09:20	10° $\mathbb{E}$ 47'21		evening max el	7122 Aug 17 23:20	23° $\mathbb{H}$ 14'25	23°17'04
evening max el	7121 Sep 05 11:44	12° $\mathbb{E}$ 55'27	24°54'16	desc. node	7122 Aug 21 06:21	26° $\mathbb{H}$ 04'54	
retrograde	7121 Sep 19 08:29	19° $\mathbb{E}$ 54'53		retrograde	7122 Aug 31 10:32	29° $\mathbb{H}$ 58'57	
evening set	7121 Sep 24 20:31	18° $\mathbb{E}$ 46'41		evening set	7122 Sep 04 10:48	29° $\mathbb{H}$ 23'43	
min. Earth dist.	7121 Sep 29 23:00	16° $\mathbb{E}$ 02'39	0.57084 AU	min. Earth dist.	7122 Sep 11 08:34	26° $\mathbb{H}$ 12'18	0.55557 AU
inferior conj	7121 Oct 02 18:50	14° $\mathbb{E}$ 11'39	-5°25'20	inferior conj	7122 Sep 13 03:47	25° $\mathbb{H}$ 09'01	-5°19'28
minimum elong	7121 Oct 02 21:23	14° $\mathbb{E}$ 07'27	5°25'10	minimum elong	7122 Sep 12 23:20	25° $\mathbb{H}$ 15'34	5°19'02
morning rise	7121 Oct 11 00:29	10° $\mathbb{E}$ 03'31		morning rise	7122 Sep 21 14:08	21° $\mathbb{H}$ 17'33	
direct	7121 Oct 13 13:35	9° $\mathbb{E}$ 45'07		direct	7122 Sep 24 12:46	20° $\mathbb{H}$ 56'43	
morning max el	7121 Oct 22 18:37	14° $\mathbb{E}$ 06'46	19°15'47	morning max el	7122 Oct 05 06:28	25° $\mathbb{H}$ 57'18	20°28'12
asc. node	7121 Oct 26 01:41	17° $\mathbb{E}$ 46'02			7122 Oct 08 23:35	0° $\mathbb{E}$	
	7121 Nov 02 20:27	0° $\mathbb{M}$		asc. node	7122 Oct 12 22:41	5° $\mathbb{E}$ 31'38	
morning set	7121 Nov 08 18:33	11° $\mathbb{M}$ 24'25		morning set	7122 Oct 24 00:57	26° $\mathbb{E}$ 03'25	
					7122 Oct 25 22:51	0° $\mathbb{M}$	

superior conj	7122 Oct 31 13:52	11° $\mathbb{M}$ 35'01	1°38'28	morning max el	7123 Sep 17 05:59	7° $\mathbb{M}$ 00'57	22°00'29
minimum elong	7122 Oct 31 15:18	11° $\mathbb{M}$ 42'19	1°38'27	asc. node	7123 Sep 29 19:41	24° $\mathbb{M}$ 01'56	
max. Earth dist.	7122 Nov 05 19:13	21° $\mathbb{M}$ 55'53	1.36290 AU		7123 Oct 03 01:45	0° $\mathbb{A}$	
evening rise	7122 Nov 09 16:32	29° $\mathbb{M}$ 15'06		morning set	7123 Oct 08 10:53	10° $\mathbb{A}$ 51'16	
	7122 Nov 10 02:19	0° $\mathbb{A}$					
desc. node	7122 Nov 17 05:26	12° $\mathbb{A}$ 28'04		superior conj	7123 Oct 15 14:35	26° $\mathbb{A}$ 01'20	1°42'09
	7122 Nov 28 12:04	0° $\mathbb{B}$		minimum elong	7123 Oct 15 14:38	26° $\mathbb{A}$ 01'37	1°42'12
evening max el	7122 Dec 15 07:10	20° $\mathbb{B}$ 46'14	26°02'40		7123 Oct 17 12:15	0° $\mathbb{M}$	
retrograde	7122 Dec 27 21:34	27° $\mathbb{B}$ 56'06		max. Earth dist.	7123 Oct 19 08:44	3° $\mathbb{M}$ 48'37	1.34538 AU
evening set	7123 Jan 03 01:32	25° $\mathbb{B}$ 24'42		evening rise	7123 Oct 23 19:02	12° $\mathbb{M}$ 35'38	
min. Earth dist.	7123 Jan 07 07:25	20° $\mathbb{B}$ 53'56	0.66875 AU		7123 Nov 02 10:40	0° $\mathbb{A}$	
inferior conj	7123 Jan 08 19:41	19° $\mathbb{B}$ 01'06	-0°01'55	desc. node	7123 Nov 04 02:28	2° $\mathbb{A}$ 45'11	
minimum elong	7123 Jan 08 19:44	19° $\mathbb{B}$ 00'58	0°01'50		7123 Nov 23 14:31	0° $\mathbb{B}$	
transit middle	7123 Jan 08 19:44	19° $\mathbb{B}$ 00'58	0°01'50	evening max el	7123 Nov 27 20:13	4° $\mathbb{B}$ 25'43	26°55'27
transit begin	7123 Jan 08 16:54	19° $\mathbb{B}$ 09'47		retrograde	7123 Dec 11 01:20	11° $\mathbb{B}$ 44'28	
transit end	7123 Jan 08 22:34	18° $\mathbb{B}$ 52'09		evening set	7123 Dec 17 16:50	9° $\mathbb{B}$ 07'21	
asc. node	7123 Jan 08 21:58	18° $\mathbb{B}$ 54'00		min. Earth dist.	7123 Dec 21 16:37	5° $\mathbb{B}$ 11'08	0.65665 AU
morning rise	7123 Jan 14 14:32	13° $\mathbb{B}$ 12'10		inferior conj	7123 Dec 23 16:27	2° $\mathbb{B}$ 53'19	-1°02'56
direct	7123 Jan 17 18:29	12° $\mathbb{B}$ 15'04		minimum elong	7123 Dec 23 18:16	2° $\mathbb{B}$ 48'05	1°02'05
morning max el	7123 Jan 24 12:36	15° $\mathbb{B}$ 56'35	18°48'31		7123 Dec 26 07:43	30° $\mathbb{R}$ $\mathbb{A}$	
	7123 Feb 04 03:58	0° $\mathbb{A}$		asc. node	7123 Dec 26 19:00	29° $\mathbb{A}$ 32'28	
desc. node	7123 Feb 13 04:44	13° $\mathbb{A}$ 57'47		morning rise	7123 Dec 29 20:46	27° $\mathbb{A}$ 15'50	
morning set	7123 Feb 15 07:15	17° $\mathbb{A}$ 15'28		direct	7124 Jan 01 15:23	26° $\mathbb{A}$ 33'45	
	7123 Feb 23 10:40	0° $\mathbb{H}$		morning max el	7124 Jan 08 02:50	0° $\mathbb{B}$ 01'38	18°11'38
max. Earth dist.	7123 Mar 02 09:28	10° $\mathbb{H}$ 52'44	1.45300 AU		7124 Jan 08 02:10	0° $\mathbb{B}$	
				morning set	7124 Jan 26 21:47	27° $\mathbb{B}$ 45'20	
superior conj	7123 Mar 03 17:53	12° $\mathbb{H}$ 59'56	-1°49'21		7124 Jan 28 06:59	0° $\mathbb{A}$	
minimum elong	7123 Mar 03 08:57	12° $\mathbb{H}$ 24'48	1°48'37	desc. node	7124 Jan 31 01:44	4° $\mathbb{A}$ 29'46	
	7123 Mar 14 11:26	0° $\mathbb{Y}$					
evening rise	7123 Mar 19 00:16	7° $\mathbb{Y}$ 17'21		superior conj	7124 Feb 10 22:47	21° $\mathbb{A}$ 48'47	-1°12'14
greatest brilliancy	7123 Mar 25 08:23	17° $\mathbb{Y}$ 31'13	-0.9m	minimum elong	7124 Feb 10 14:26	21° $\mathbb{A}$ 15'54	1°11'11
	7123 Apr 02 08:54	0° $\mathbb{B}$		max. Earth dist.	7124 Feb 13 04:42	25° $\mathbb{A}$ 20'30	1.45404 AU
asc. node	7123 Apr 06 21:07	6° $\mathbb{B}$ 03'32			7124 Feb 16 04:09	0° $\mathbb{H}$	
evening max el	7123 Apr 08 20:13	8° $\mathbb{B}$ 13'45	18°39'40	evening rise	7124 Feb 27 02:52	17° $\mathbb{H}$ 03'27	
retrograde	7123 Apr 15 10:28	11° $\mathbb{B}$ 51'30			7124 Mar 06 10:58	0° $\mathbb{Y}$	
evening set	7123 Apr 18 15:43	10° $\mathbb{B}$ 52'36		greatest brilliancy	7124 Mar 10 03:53	5° $\mathbb{Y}$ 39'57	-0.7m
inferior conj	7123 Apr 24 07:50	5° $\mathbb{B}$ 15'52	3°26'34	evening max el	7124 Mar 22 04:19	21° $\mathbb{Y}$ 48'38	19°22'45
minimum elong	7123 Apr 24 08:04	5° $\mathbb{B}$ 15'08	3°26'31	asc. node	7124 Mar 23 18:10	23° $\mathbb{Y}$ 17'29	
min. Earth dist.	7123 Apr 26 06:46	2° $\mathbb{B}$ 53'06	0.65229 AU	retrograde	7124 Mar 29 07:11	25° $\mathbb{Y}$ 51'43	
	7123 Apr 28 21:42	30° $\mathbb{R}$ $\mathbb{Y}$		evening set	7124 Apr 01 20:06	24° $\mathbb{Y}$ 38'33	
morning rise	7123 Apr 29 23:45	29° $\mathbb{Y}$ 00'02		inferior conj	7124 Apr 07 06:58	18° $\mathbb{Y}$ 46'25	3°22'31
direct	7123 May 06 14:10	26° $\mathbb{Y}$ 12'09		minimum elong	7124 Apr 07 05:58	18° $\mathbb{Y}$ 49'39	3°22'24
desc. node	7123 May 12 04:10	27° $\mathbb{Y}$ 50'20		min. Earth dist.	7124 Apr 08 14:42	17° $\mathbb{Y}$ 02'56	0.66655 AU
	7123 May 15 09:52	0° $\mathbb{B}$		morning rise	7124 Apr 12 15:29	12° $\mathbb{Y}$ 29'39	
morning max el	7123 May 19 22:39	4° $\mathbb{B}$ 04'50	27°03'20	direct	7124 Apr 18 20:23	9° $\mathbb{Y}$ 44'40	
	7123 Jun 08 13:25	0° $\mathbb{H}$		desc. node	7124 Apr 28 01:11	14° $\mathbb{Y}$ 08'01	
morning set	7123 Jun 24 14:16	27° $\mathbb{H}$ 56'08		morning max el	7124 May 01 08:31	17° $\mathbb{Y}$ 13'00	25°55'32
	7123 Jun 25 15:49	0° $\mathbb{B}$			7124 May 12 00:20	0° $\mathbb{B}$	
max. Earth dist.	7123 Jun 29 00:35	6° $\mathbb{B}$ 41'44	1.33846 AU		7124 May 31 12:15	0° $\mathbb{H}$	
				morning set	7124 Jun 06 11:46	10° $\mathbb{H}$ 39'28	
superior conj	7123 Jul 03 00:41	14° $\mathbb{B}$ 57'56	-0°08'21	max. Earth dist.	7124 Jun 10 07:30	17° $\mathbb{H}$ 51'06	1.35488 AU
minimum elong	7123 Jul 03 01:08	15° $\mathbb{B}$ 00'17	0°08'20				
behind sun begin	7123 Jul 02 20:17	14° $\mathbb{B}$ 34'50		superior conj	7124 Jun 15 19:03	28° $\mathbb{H}$ 40'29	-0°38'57
behind sun end	7123 Jul 03 05:59	15° $\mathbb{B}$ 25'46		minimum elong	7124 Jun 15 21:18	28° $\mathbb{H}$ 51'51	0°38'35
asc. node	7123 Jul 03 20:19	16° $\mathbb{B}$ 41'13			7124 Jun 16 10:44	0° $\mathbb{B}$	
evening rise	7123 Jul 10 08:32	0° $\mathbb{Q}$ 29'16		asc. node	7124 Jun 19 17:21	6° $\mathbb{B}$ 43'09	
	7123 Jul 10 02:58	0° $\mathbb{Q}$		evening rise	7124 Jun 23 15:52	14° $\mathbb{B}$ 51'01	
	7123 Jul 27 08:57	0° $\mathbb{M}$			7124 Jul 01 11:05	0° $\mathbb{Q}$	
evening max el	7123 Jul 30 15:15	3° $\mathbb{M}$ 35'31	21°40'55	evening max el	7124 Jul 11 18:37	14° $\mathbb{Q}$ 28'57	20°18'16
desc. node	7123 Aug 08 03:23	9° $\mathbb{M}$ 08'45		retrograde	7124 Jul 22 14:32	19° $\mathbb{Q}$ 48'46	
retrograde	7123 Aug 12 01:54	9° $\mathbb{M}$ 45'42		evening set	7124 Jul 24 13:23	19° $\mathbb{Q}$ 39'09	
evening set	7123 Aug 14 16:59	9° $\mathbb{M}$ 30'04		desc. node	7124 Jul 25 00:26	19° $\mathbb{Q}$ 34'10	
inferior conj	7123 Aug 23 22:54	5° $\mathbb{M}$ 30'05	-4°20'04	inferior conj	7124 Aug 02 16:59	15° $\mathbb{Q}$ 41'30	-2°35'51
minimum elong	7123 Aug 23 13:43	5° $\mathbb{M}$ 42'58	4°17'46	minimum elong	7124 Aug 02 09:51	15° $\mathbb{Q}$ 51'57	2°33'21
min. Earth dist.	7123 Aug 23 17:48	5° $\mathbb{M}$ 37'15	0.54773 AU	min. Earth dist.	7124 Aug 04 04:36	14° $\mathbb{Q}$ 49'20	0.54935 AU
morning rise	7123 Sep 01 11:37	1° $\mathbb{M}$ 39'29		morning rise	7124 Aug 11 05:15	11° $\mathbb{Q}$ 31'45	
direct	7123 Sep 04 22:52	1° $\mathbb{M}$ 13'12		direct	7124 Aug 15 09:17	10° $\mathbb{Q}$ 54'12	

morning max el	7124 Aug 28 20:48	17° $\Omega$ 28'09	23°44'41	direct	7125 Jul 27 06:19	20° $\mathfrak{G}$ 33'37	
	7124 Sep 08 00:55	0° $\mathfrak{M}$		morning max el	7125 Aug 10 09:46	27° $\mathfrak{G}$ 44'46	25°26'43
asc. node	7124 Sep 15 16:43	13° $\mathfrak{M}$ 05'48			7125 Aug 12 15:07	0° $\Omega$	
morning set	7124 Sep 21 22:26	25° $\mathfrak{M}$ 42'14			7125 Sep 01 06:31	0° $\mathfrak{M}$	
	7124 Sep 23 22:36	0° $\mathfrak{L}$		asc. node	7125 Sep 02 13:44	2° $\mathfrak{M}$ 34'27	
				morning set	7125 Sep 06 10:00	10° $\mathfrak{M}$ 31'37	
superior conj	7124 Sep 28 21:12	10° $\mathfrak{L}$ 43'20	1°39'15				
minimum elong	7124 Sep 28 20:06	10° $\mathfrak{L}$ 37'24	1°39'13	superior conj	7125 Sep 13 07:23	25° $\mathfrak{M}$ 33'55	1°30'32
max. Earth dist.	7124 Oct 01 07:03	15° $\mathfrak{L}$ 53'53	1.33191 AU	minimum elong	7125 Sep 13 05:30	25° $\mathfrak{M}$ 23'32	1°30'20
evening rise	7124 Oct 06 09:47	26° $\mathfrak{L}$ 29'32		max. Earth dist.	7125 Sep 14 12:48	28° $\mathfrak{M}$ 15'21	1.32282 AU
	7124 Oct 08 04:15	0° $\mathfrak{M}$			7125 Sep 15 07:57	0° $\mathfrak{L}$	
desc. node	7124 Oct 20 23:31	22° $\mathfrak{M}$ 41'04		evening rise	7125 Sep 20 09:28	10° $\mathfrak{L}$ 47'33	
	7124 Oct 25 18:55	0° $\mathfrak{X}$			7125 Sep 30 10:16	0° $\mathfrak{M}$	
evening max el	7124 Nov 09 08:37	17° $\mathfrak{X}$ 48'13	27°24'42	desc. node	7125 Oct 07 20:35	12° $\mathfrak{M}$ 06'54	
retrograde	7124 Nov 22 22:45	25° $\mathfrak{X}$ 06'45			7125 Oct 22 01:19	0° $\mathfrak{X}$	
evening set	7124 Nov 29 22:49	22° $\mathfrak{X}$ 31'12		evening max el	7125 Oct 22 18:06	0° $\mathfrak{X}$ 40'21	27°24'10
min. Earth dist.	7124 Dec 03 17:29	19° $\mathfrak{X}$ 08'01	0.64122 AU	retrograde	7125 Nov 05 13:02	7° $\mathfrak{X}$ 54'21	
inferior conj	7124 Dec 06 04:54	16° $\mathfrak{X}$ 32'38	-2°08'39	evening set	7125 Nov 12 16:19	5° $\mathfrak{X}$ 29'47	
minimum elong	7124 Dec 06 08:49	16° $\mathfrak{X}$ 22'21	2°07'01	min. Earth dist.	7125 Nov 16 08:09	2° $\mathfrak{X}$ 34'52	0.62286 AU
morning rise	7124 Dec 12 20:23	11° $\mathfrak{X}$ 09'37		inferior conj	7125 Nov 19 06:07	29° $\mathfrak{M}$ 51'57	-3°16'05
asc. node	7124 Dec 12 16:03	11° $\mathfrak{X}$ 14'13		minimum elong	7125 Nov 19 12:04	29° $\mathfrak{M}$ 38'04	3°13'58
direct	7124 Dec 15 07:57	10° $\mathfrak{X}$ 38'36			7125 Nov 19 02:41	30° $\mathfrak{R}$ $\mathfrak{M}$	
morning max el	7124 Dec 21 19:46	14° $\mathfrak{X}$ 02'20	17°51'47	morning rise	7125 Nov 26 09:46	24° $\mathfrak{M}$ 46'56	
	7125 Jan 01 23:57	0° $\mathfrak{Z}$		direct	7125 Nov 28 16:58	24° $\mathfrak{M}$ 23'23	
morning set	7125 Jan 07 16:36	9° $\mathfrak{Z}$ 38'03		asc. node	7125 Nov 29 13:06	24° $\mathfrak{M}$ 26'36	
desc. node	7125 Jan 16 22:43	25° $\mathfrak{Z}$ 09'55		morning max el	7125 Dec 05 12:23	27° $\mathfrak{M}$ 51'30	17°49'45
	7125 Jan 19 21:38	0° $\approx$			7125 Dec 07 11:09	0° $\mathfrak{X}$	
				morning set	7125 Dec 21 09:35	22° $\mathfrak{X}$ 34'13	
superior conj	7125 Jan 20 17:58	1° $\approx$ 22'30	-0°26'59		7125 Dec 25 13:49	0° $\mathfrak{Z}$	
minimum elong	7125 Jan 20 14:53	1° $\approx$ 10'02	0°26'27				
max. Earth dist.	7125 Jan 25 23:51	9° $\approx$ 46'32	1.44771 AU	superior conj	7126 Jan 01 14:10	12° $\mathfrak{Z}$ 09'25	0°16'10
evening rise	7125 Feb 05 15:23	26° $\approx$ 21'53		minimum elong	7126 Jan 01 15:41	12° $\mathfrak{Z}$ 15'50	0°16'01
	7125 Feb 08 00:22	0° $\mathfrak{H}$		behind sun begin	7126 Jan 01 15:10	12° $\mathfrak{Z}$ 13'37	
	7125 Feb 28 15:29	0° $\mathfrak{Y}$		behind sun end	7126 Jan 01 16:12	12° $\mathfrak{Z}$ 18'02	
evening max el	7125 Mar 05 07:23	5° $\mathfrak{Y}$ 25'41	20°21'03	desc. node	7126 Jan 03 19:45	15° $\mathfrak{Z}$ 54'53	
asc. node	7125 Mar 10 15:14	9° $\mathfrak{Y}$ 28'12		max. Earth dist.	7126 Jan 08 16:04	23° $\mathfrak{Z}$ 53'29	1.43477 AU
retrograde	7125 Mar 13 05:33	10° $\mathfrak{Y}$ 03'09			7126 Jan 12 11:31	0° $\approx$	
evening set	7125 Mar 17 03:14	8° $\mathfrak{Y}$ 35'07		evening rise	7126 Jan 16 04:34	5° $\approx$ 49'32	
inferior conj	7125 Mar 22 11:25	2° $\mathfrak{Y}$ 29'30	3°06'16		7126 Feb 01 08:37	0° $\mathfrak{H}$	
minimum elong	7125 Mar 22 09:35	2° $\mathfrak{Y}$ 35'46	3°05'57	evening max el	7126 Feb 16 04:53	19° $\mathfrak{H}$ 03'27	21°31'26
min. Earth dist.	7125 Mar 23 05:00	1° $\mathfrak{Y}$ 29'38	0.67635 AU	retrograde	7126 Feb 25 03:29	24° $\mathfrak{H}$ 21'16	
	7125 Mar 24 07:49	30° $\mathfrak{R}$ $\mathfrak{H}$		asc. node	7126 Feb 25 12:18	24° $\mathfrak{H}$ 20'33	
morning rise	7125 Mar 27 15:43	26° $\mathfrak{H}$ 14'10		evening set	7126 Mar 01 11:14	22° $\mathfrak{H}$ 37'57	
direct	7125 Apr 02 07:56	23° $\mathfrak{H}$ 42'12		inferior conj	7126 Mar 06 18:53	16° $\mathfrak{H}$ 21'21	2°39'53
	7125 Apr 13 04:54	0° $\mathfrak{Y}$		minimum elong	7126 Mar 06 16:37	16° $\mathfrak{H}$ 29'14	2°39'20
morning max el	7125 Apr 13 17:25	0° $\mathfrak{Y}$ 31'18	24°31'49	min. Earth dist.	7126 Mar 06 23:34	16° $\mathfrak{H}$ 05'08	0.68177 AU
desc. node	7125 Apr 14 22:11	1° $\mathfrak{Y}$ 46'03		morning rise	7126 Mar 11 21:51	10° $\mathfrak{H}$ 08'58	
	7125 May 05 22:26	0° $\mathfrak{B}$		direct	7126 Mar 16 23:55	7° $\mathfrak{H}$ 56'23	
morning set	7125 May 19 14:49	22° $\mathfrak{B}$ 27'39		morning max el	7126 Mar 27 03:03	13° $\mathfrak{H}$ 56'35	23°02'15
max. Earth dist.	7125 May 23 05:48	28° $\mathfrak{B}$ 55'46	1.37519 AU	desc. node	7126 Apr 01 19:10	20° $\mathfrak{H}$ 21'42	
	7125 May 23 19:55	0° $\mathfrak{I}$			7126 Apr 09 02:29	0° $\mathfrak{Y}$	
					7126 Apr 28 20:41	0° $\mathfrak{B}$	
superior conj	7125 May 30 02:30	11° $\mathfrak{I}$ 48'30	-1°09'57	morning set	7126 Apr 30 17:36	3° $\mathfrak{B}$ 05'30	
minimum elong	7125 May 30 06:39	12° $\mathfrak{I}$ 08'33	1°09'21	max. Earth dist.	7126 May 05 02:00	10° $\mathfrak{B}$ 27'38	1.39743 AU
asc. node	7125 Jun 06 14:24	26° $\mathfrak{I}$ 37'16					
evening rise	7125 Jun 07 17:38	28° $\mathfrak{I}$ 52'56		superior conj	7126 May 12 18:55	24° $\mathfrak{B}$ 11'09	-1°38'36
	7125 Jun 08 07:08	0° $\mathfrak{G}$		minimum elong	7126 May 13 00:22	24° $\mathfrak{B}$ 36'10	1°38'01
evening max el	7125 Jun 24 10:54	26° $\mathfrak{G}$ 06'15	19°14'57		7126 May 15 22:00	0° $\mathfrak{I}$	
	7125 Jun 30 05:22	0° $\Omega$		evening rise	7126 May 22 10:43	12° $\mathfrak{I}$ 26'16	
retrograde	7125 Jul 03 13:58	0° $\Omega$ 35'53		asc. node	7126 May 24 11:27	16° $\mathfrak{I}$ 18'34	
evening set	7125 Jul 05 11:58	0° $\Omega$ 24'50			7126 Jun 01 03:58	0° $\mathfrak{G}$	
	7125 Jul 07 02:02	30° $\mathfrak{R}$ $\mathfrak{G}$		evening max el	7126 Jun 07 13:36	8° $\mathfrak{G}$ 23'32	18°32'18
desc. node	7125 Jul 11 21:29	27° $\mathfrak{G}$ 37'02		retrograde	7126 Jun 15 07:53	12° $\mathfrak{G}$ 14'49	
inferior conj	7125 Jul 14 00:05	26° $\mathfrak{G}$ 15'01	-0°38'19	evening set	7126 Jun 17 11:46	11° $\mathfrak{G}$ 57'49	
minimum elong	7125 Jul 13 22:25	26° $\mathfrak{G}$ 17'48	0°37'46	inferior conj	7126 Jun 25 03:57	7° $\mathfrak{G}$ 28'54	1°02'48
min. Earth dist.	7125 Jul 16 18:10	24° $\mathfrak{G}$ 25'37	0.56026 AU	minimum elong	7126 Jun 25 06:07	7° $\mathfrak{G}$ 24'40	1°01'58
morning rise	7125 Jul 22 05:58	21° $\mathfrak{G}$ 31'18		min. Earth dist.	7126 Jun 28 12:23	4° $\mathfrak{G}$ 53'14	0.57824 AU

desc. node	7126 Jun 28 18:31	4°♄41'57		desc. node	7127 Jun 15 15:32	12°♄52'27	
morning rise	7126 Jul 02 21:05	2°♄08'48		direct	7127 Jun 20 18:08	11°♄37'44	
direct	7126 Jul 08 17:32	0°♄41'45		morning max el	7127 Jul 05 02:38	19°♄32'27	27°40'52
morning max el	7126 Jul 23 02:55	8°♄19'39	26°49'50		7127 Jul 14 00:10	0°♄	
	7126 Aug 08 11:17	0°♄			7127 Aug 01 06:22	0°♄	
asc. node	7126 Aug 20 10:46	22°♄20'13		morning set	7127 Aug 06 02:15	9°♄42'49	
morning set	7126 Aug 21 19:51	25°♄13'28		asc. node	7127 Aug 07 07:47	12°♄17'47	
	7126 Aug 24 01:21	0°♄		max. Earth dist.	7127 Aug 12 09:00	23°♄14'27	1.31793 AU
superior conj	7126 Aug 28 19:07	10°♄25'47	1°16'37	superior conj	7127 Aug 13 06:34	25°♄13'34	0°57'57
minimum elong	7126 Aug 28 16:52	10°♄13'19	1°16'15	minimum elong	7127 Aug 13 04:26	25°♄01'44	0°57'31
max. Earth dist.	7126 Aug 28 22:39	10°♄45'24	1.31815 AU		7127 Aug 15 10:22	0°♄	
evening rise	7126 Sep 04 15:16	25°♄20'43		evening rise	7127 Aug 20 00:55	10°♄02'37	
	7126 Sep 06 20:57	0°♄			7127 Aug 30 04:47	0°♄	
	7126 Sep 24 03:28	0°♄		desc. node	7127 Sep 11 14:41	18°♄32'27	
desc. node	7126 Sep 24 17:39	0°♄49'40		evening max el	7127 Sep 16 17:50	24°♄06'15	25°43'57
evening max el	7126 Oct 04 21:49	12°♄48'23	26°50'13		7127 Sep 25 04:38	0°♄	
retrograde	7126 Oct 18 19:26	19°♄57'37		retrograde	7127 Sep 30 16:29	1°♄10'38	
evening set	7126 Oct 25 17:09	17°♄55'22			7127 Oct 06 03:37	30°♄	
min. Earth dist.	7126 Oct 29 11:54	15°♄18'10	0.60239 AU	evening set	7127 Oct 06 20:24	29°♄41'18	
inferior conj	7126 Nov 01 16:37	12°♄41'36	-4°19'39	min. Earth dist.	7127 Oct 11 06:12	27°♄04'58	0.58169 AU
minimum elong	7126 Nov 01 23:33	12°♄27'23	4°17'48	inferior conj	7127 Oct 14 08:59	24°♄52'18	-5°09'14
morning rise	7126 Nov 09 08:13	7°♄57'58		minimum elong	7127 Oct 14 14:16	24°♄42'52	5°08'27
direct	7126 Nov 11 14:17	7°♄38'43		morning rise	7127 Oct 22 10:29	20°♄31'33	
asc. node	7126 Nov 16 10:07	9°♄11'51		direct	7127 Oct 24 19:28	20°♄13'44	
morning max el	7126 Nov 19 01:20	11°♄20'06	18°06'47	morning max el	7127 Nov 02 07:01	24°♄18'06	18°44'22
	7126 Dec 01 09:48	0°♄		asc. node	7127 Nov 03 07:09	25°♄19'09	
morning set	7126 Dec 04 18:31	6°♄14'59			7127 Nov 07 00:57	0°♄	
superior conj	7126 Dec 14 11:31	24°♄08'52	0°51'18	morning set	7127 Nov 18 14:28	20°♄25'54	
minimum elong	7126 Dec 14 14:58	24°♄24'20	0°50'53		7127 Nov 23 12:08	0°♄	
	7126 Dec 17 19:05	0°♄		superior conj	7127 Nov 27 05:18	7°♄06'43	1°16'46
desc. node	7126 Dec 21 16:47	6°♄41'11		minimum elong	7127 Nov 27 08:40	7°♄22'35	1°16'28
max. Earth dist.	7126 Dec 22 03:14	7°♄25'11	1.41666 AU	max. Earth dist.	7127 Dec 04 09:38	20°♄13'02	1.39568 AU
evening rise	7126 Dec 27 08:23	15°♄59'36		evening rise	7127 Dec 08 09:50	27°♄08'11	
	7127 Jan 05 07:59	0°♄		desc. node	7127 Dec 08 13:47	27°♄24'52	
	7127 Jan 27 08:27	0°♄			7127 Dec 10 02:49	0°♄	
evening max el	7127 Jan 29 21:39	2°♄43'24	22°49'29		7127 Dec 29 22:06	0°♄	
retrograde	7127 Feb 08 23:26	8°♄42'09		evening max el	7128 Jan 12 11:32	16°♄26'43	24°09'31
asc. node	7127 Feb 12 09:21	7°♄43'00		retrograde	7128 Jan 23 15:57	23°♄00'54	
evening set	7127 Feb 13 18:30	6°♄43'43		evening set	7128 Jan 28 23:27	20°♄48'07	
inferior conj	7127 Feb 19 03:22	0°♄19'27	2°04'37	asc. node	7128 Jan 30 06:23	19°♄34'49	
minimum elong	7127 Feb 19 01:08	0°♄27'13	2°03'57	min. Earth dist.	7128 Feb 02 16:34	15°♄22'39	0.68040 AU
min. Earth dist.	7127 Feb 18 20:11	0°♄44'20	0.68302 AU	inferior conj	7128 Feb 03 11:00	14°♄20'22	1°21'17
	7127 Feb 19 08:59	30°♄		minimum elong	7128 Feb 03 09:16	14°♄26'16	1°20'41
morning rise	7127 Feb 24 07:40	24°♄11'16		morning rise	7128 Feb 08 19:07	8°♄17'55	
direct	7127 Feb 28 19:29	22°♄20'58		direct	7128 Feb 12 17:29	6°♄49'54	
morning max el	7127 Mar 09 16:41	27°♄31'01	21°35'54	morning max el	7128 Feb 20 13:13	11°♄16'30	20°19'30
	7127 Mar 12 00:31	0°♄		desc. node	7128 Mar 05 13:08	29°♄26'32	
desc. node	7127 Mar 19 16:10	9°♄39'09			7128 Mar 05 22:19	0°♄	
	7127 Apr 02 16:37	0°♄		morning set	7128 Mar 19 17:04	20°♄47'26	
morning set	7127 Apr 10 16:28	12°♄25'39			7128 Mar 25 14:29	0°♄	
max. Earth dist.	7127 Apr 17 02:15	22°♄48'49	1.41886 AU	max. Earth dist.	7128 Mar 29 09:28	6°♄02'15	1.43682 AU
	7127 Apr 21 09:04	0°♄		superior conj	7128 Apr 04 12:09	15°♄59'17	-2°10'52
superior conj	7127 Apr 24 15:35	5°♄37'50	-2°00'46	minimum elong	7128 Apr 04 12:48	16°♄02'00	2°10'52
minimum elong	7127 Apr 24 20:23	5°♄58'44	2°00'30		7128 Apr 12 19:27	0°♄	
evening rise	7127 May 05 15:21	25°♄21'43		evening rise	7128 Apr 17 02:57	7°♄28'22	
	7127 May 08 04:18	0°♄		asc. node	7128 Apr 27 05:31	24°♄40'45	
asc. node	7127 May 11 08:30	5°♄42'03			7128 Apr 30 19:23	0°♄	
evening max el	7127 May 21 23:10	21°♄12'45	18°09'53	evening max el	7128 May 04 11:57	4°♄23'50	18°06'55
retrograde	7127 May 28 20:04	24°♄41'12		retrograde	7128 May 10 22:34	7°♄44'50	
evening set	7127 May 31 07:17	24°♄14'50		evening set	7128 May 13 16:58	7°♄06'44	
inferior conj	7127 Jun 07 05:07	19°♄25'40	2°15'22	inferior conj	7128 May 20 00:09	1°♄58'01	3°00'08
minimum elong	7127 Jun 07 08:19	19°♄18'21	2°14'25	minimum elong	7128 May 20 02:37	1°♄51'36	2°59'38
min. Earth dist.	7127 Jun 10 13:20	16°♄24'42	0.59999 AU		7128 May 21 21:25	30°♄	
morning rise	7127 Jun 14 06:34	13°♄37'45		min. Earth dist.	7128 May 22 22:29	28°♄56'29	0.62222 AU

morning rise	7128 May 26 10:30	25°♄53'18		min. Earth dist.	7129 May 05 16:48	12°♄17'13	0.64237 AU
desc. node	7128 Jun 01 12:32	23°♄27'07		morning rise	7129 May 09 06:45	8°♄45'01	
direct	7128 Jun 02 05:15	23°♄25'38		direct	7129 May 16 00:39	6°♄01'00	
	7128 Jun 14 19:53	0°♄		desc. node	7129 May 19 09:32	6°♄36'45	
morning max el	7128 Jun 16 08:07	1°♄27'24	27°54'15	morning max el	7129 May 29 17:15	13°♄59'37	27°31'02
	7128 Jul 07 05:53	0°♄			7129 Jun 11 15:42	0°♄	
morning set	7128 Jul 20 03:14	23°♄53'35			7129 Jun 29 20:49	0°♄	
	7128 Jul 23 01:58	0°♄		morning set	7129 Jul 03 20:15	7°♄38'02	
asc. node	7128 Jul 24 04:48	2°♄22'13		max. Earth dist.	7129 Jul 08 15:58	17°♄24'41	1.33121 AU
max. Earth dist.	7128 Jul 25 16:00	5°♄31'02	1.32222 AU	asc. node	7129 Jul 11 01:48	22°♄28'48	
superior conj	7128 Jul 27 16:00	9°♄51'37	0°35'01	superior conj	7129 Jul 11 21:26	24°♄13'24	0°08'23
minimum elong	7128 Jul 27 14:28	9°♄43'15	0°34'39	minimum elong	7129 Jul 11 21:01	24°♄11'10	0°08'14
evening rise	7128 Aug 03 12:26	24°♄47'11		behind sun begin	7129 Jul 11 16:20	23°♄46'09	
	7128 Aug 05 23:52	0°♄		behind sun end	7129 Jul 12 01:43	24°♄36'14	
	7128 Aug 23 23:48	0°♄			7129 Jul 14 14:00	0°♄	
desc. node	7128 Aug 28 11:43	4°♄51'58		evening rise	7129 Jul 18 23:54	9°♄27'58	
evening max el	7128 Aug 28 07:15	4°♄41'18	24°13'56		7129 Jul 29 15:11	0°♄	
retrograde	7128 Sep 11 01:42	11°♄36'03		evening max el	7129 Aug 09 19:45	14°♄57'15	22°35'10
evening set	7128 Sep 15 23:00	10°♄43'17		desc. node	7129 Aug 15 08:45	19°♄17'02	
min. Earth dist.	7128 Sep 21 18:08	7°♄49'16	0.56356 AU	retrograde	7129 Aug 22 22:10	21°♄29'01	
inferior conj	7128 Sep 24 05:13	6°♄17'26	-5°28'56	evening set	7129 Aug 26 07:09	21°♄04'03	
minimum elong	7128 Sep 24 04:58	6°♄17'49	5°28'56	min. Earth dist.	7129 Sep 03 03:02	17°♄36'59	0.55119 AU
morning rise	7128 Oct 02 13:09	2°♄17'17		inferior conj	7129 Sep 04 07:08	16°♄57'07	-5°00'58
direct	7128 Oct 05 05:47	1°♄58'10		minimum elong	7129 Sep 03 23:57	17°♄07'19	4°59'47
morning max el	7128 Oct 15 02:02	6°♄35'44	19°43'55	morning rise	7129 Sep 12 18:41	13°♄08'25	
asc. node	7128 Oct 20 04:09	12°♄33'38		direct	7129 Sep 15 22:39	12°♄45'31	
	7128 Oct 30 06:20	0°♄		morning max el	7129 Sep 27 08:19	18°♄05'25	21°05'20
morning set	7128 Nov 01 17:54	4°♄57'27			7129 Oct 06 15:22	0°♄	
				asc. node	7129 Oct 07 01:11	0°♄39'49	
superior conj	7128 Nov 09 14:25	20°♄48'43	1°32'57	morning set	7129 Oct 17 02:04	19°♄41'05	
minimum elong	7128 Nov 09 16:40	20°♄59'51	1°32'51		7129 Oct 22 00:26	0°♄	
	7128 Nov 14 08:13	0°♄					
max. Earth dist.	7128 Nov 15 15:07	2°♄25'00	1.37440 AU	superior conj	7129 Oct 24 10:27	5°♄01'35	1°40'54
evening rise	7128 Nov 19 09:08	9°♄15'29		minimum elong	7129 Oct 24 11:18	5°♄05'54	1°40'55
desc. node	7128 Nov 24 10:49	18°♄02'20		max. Earth dist.	7129 Oct 29 00:49	14°♄19'35	1.35503 AU
	7128 Dec 01 21:04	0°♄		evening rise	7129 Nov 02 02:51	22°♄11'49	
	7128 Dec 24 19:08	0°♄			7129 Nov 06 09:25	0°♄	
evening max el	7128 Dec 25 00:35	0°♄13'25	25°24'37	desc. node	7129 Nov 11 07:52	8°♄28'17	
retrograde	7129 Jan 06 04:01	7°♄12'55			7129 Nov 25 15:58	0°♄	
evening set	7129 Jan 12 00:33	4°♄47'38		evening max el	7129 Dec 07 13:42	13°♄57'40	26°27'35
asc. node	7129 Jan 16 03:23	0°♄18'54		retrograde	7129 Dec 20 10:47	21°♄11'40	
	7129 Jan 16 09:20	30°♄		evening set	7129 Dec 26 19:59	18°♄37'13	
min. Earth dist.	7129 Jan 16 10:23	29°♄56'38	0.67407 AU	min. Earth dist.	7129 Dec 30 23:16	14°♄21'16	0.66407 AU
inferior conj	7129 Jan 17 16:00	28°♄21'08	0°30'31	inferior conj	7130 Jan 01 16:23	12°♄17'18	-0°27'05
minimum elong	7129 Jan 17 15:15	28°♄23'35	0°30'16	minimum elong	7130 Jan 01 17:07	12°♄15'03	0°26'42
morning rise	7129 Jan 23 06:17	22°♄26'29		asc. node	7130 Jan 03 00:26	10°♄42'07	
direct	7129 Jan 26 16:33	21°♄18'50		morning rise	7130 Jan 07 15:00	6°♄32'52	
morning max el	7129 Feb 02 17:42	25°♄13'06	19°17'11	direct	7130 Jan 10 14:51	5°♄42'27	
	7129 Feb 06 21:39	0°♄		morning max el	7130 Jan 17 05:03	9°♄16'32	18°30'49
greatest brilliancy	7129 Feb 15 22:55	12°♄49'20	-0.7m		7130 Jan 31 23:29	0°♄	
desc. node	7129 Feb 20 10:08	19°♄35'58		morning set	7130 Feb 06 14:08	8°♄53'30	
morning set	7129 Feb 26 16:41	29°♄15'19		desc. node	7130 Feb 07 07:09	10°♄00'59	
	7129 Feb 27 04:14	0°♄			7130 Feb 19 23:26	0°♄	
max. Earth dist.	7129 Mar 11 23:45	19°♄59'24	1.44914 AU				
				superior conj	7130 Feb 22 13:32	4°♄03'14	-1°35'19
superior conj	7129 Mar 15 08:24	25°♄18'38	-2°03'04	minimum elong	7130 Feb 22 03:56	3°♄25'38	1°34'21
minimum elong	7129 Mar 15 02:17	24°♄54'19	2°02'46	max. Earth dist.	7130 Feb 22 18:35	4°♄23'00	1.45438 AU
	7129 Mar 18 06:53	0°♄		evening rise	7130 Mar 10 08:12	28°♄53'04	
evening rise	7129 Mar 29 17:15	18°♄38'57			7130 Mar 11 01:05	0°♄	
	7129 Apr 05 13:51	0°♄		greatest brilliancy	7130 Mar 19 11:55	13°♄22'06	-0.8m
asc. node	7129 Apr 14 02:33	13°♄07'01			7130 Mar 31 04:58	0°♄	
evening max el	7129 Apr 18 00:51	17°♄48'48	18°22'33	asc. node	7130 Mar 31 23:35	0°♄51'02	
retrograde	7129 Apr 24 11:06	21°♄16'30		evening max el	7130 Apr 01 11:17	1°♄21'25	18°55'57
evening set	7129 Apr 27 12:26	20°♄25'17		retrograde	7130 Apr 08 05:52	5°♄08'30	
inferior conj	7129 May 03 08:59	14°♄58'14	3°22'10	evening set	7130 Apr 11 14:21	4°♄03'25	
minimum elong	7129 May 03 10:03	14°♄55'09	3°22'01		7130 Apr 15 19:26	30°♄	



inferior conj	7130 Apr 17 03:51	28°♿19'43	3°26'30	asc. node	7131 Mar 18 20:39	17°♿39'45	
minimum elong	7130 Apr 17 03:32	28°♿20'43	3°26'26	retrograde	7131 Mar 23 03:43	19°♿13'56	
min. Earth dist.	7130 Apr 18 20:07	26°♿13'08	0.65889 AU	evening set	7131 Mar 26 20:11	17°♿54'29	
morning rise	7130 Apr 22 16:15	22°♿03'13		inferior conj	7131 Apr 01 05:35	11°♿56'04	3°16'59
direct	7130 Apr 29 03:03	19°♿15'31		minimum elong	7131 Apr 01 04:11	12°♿00'45	3°16'48
desc. node	7130 May 06 06:34	21°♿55'31		min. Earth dist.	7131 Apr 02 07:04	10°♿31'02	0.67116 AU
morning max el	7130 May 12 03:40	26°♿59'04	26°37'11	morning rise	7131 Apr 06 11:55	5°♿39'32	
	7130 May 14 23:18	0°♿		direct	7131 Apr 12 11:32	2°♿59'16	
	7130 Jun 05 07:04	0°♿		desc. node	7131 Apr 23 03:35	8°♿50'26	
morning set	7130 Jun 17 02:07	20°♿47'28		morning max el	7131 Apr 24 13:20	10°♿13'07	25°21'24
max. Earth dist.	7130 Jun 21 05:50	28°♿50'39	1.34496 AU		7131 May 10 05:34	0°♿	
	7130 Jun 21 19:47	0°♿			7131 May 28 22:07	0°♿	
				morning set	7131 May 30 16:30	3°♿09'26	
superior conj	7130 Jun 25 20:40	8°♿12'43	-0°21'08	max. Earth dist.	7131 Jun 03 08:44	9°♿55'23	1.36313 AU
minimum elong	7130 Jun 25 21:50	8°♿18'47	0°20'58				
asc. node	7130 Jun 27 22:49	12°♿33'50		superior conj	7131 Jun 09 10:48	21°♿41'25	-0°52'10
evening rise	7130 Jul 03 09:26	23°♿59'06		minimum elong	7131 Jun 09 13:53	21°♿56'40	0°51'41
	7130 Jul 06 07:51	0°♿			7131 Jun 13 13:51	0°♿	
evening max el	7130 Jul 22 15:54	25°♿29'16	21°03'29	asc. node	7131 Jun 14 19:51	2°♿32'47	
	7130 Jul 28 19:51	0°♿		evening rise	7131 Jun 17 14:45	8°♿13'21	
desc. node	7130 Aug 02 05:47	1°♿15'47			7131 Jun 29 14:33	0°♿	
retrograde	7130 Aug 03 11:03	1°♿19'26		evening max el	7131 Jul 05 00:47	6°♿40'37	19°48'45
evening set	7130 Aug 05 17:04	1°♿07'30		retrograde	7131 Jul 15 03:12	11°♿38'41	
	7130 Aug 09 11:05	30°♿		evening set	7131 Jul 17 00:03	11°♿29'14	
inferior conj	7130 Aug 14 23:58	27°♿09'59	-3°39'45	desc. node	7131 Jul 20 02:50	10°♿35'04	
minimum elong	7130 Aug 14 14:52	27°♿22'49	3°37'01	inferior conj	7131 Jul 25 22:10	7°♿27'39	-1°45'33
min. Earth dist.	7130 Aug 15 12:26	26°♿52'23	0.54727 AU	minimum elong	7131 Jul 25 17:19	7°♿35'08	1°43'47
morning rise	7130 Aug 23 13:06	23°♿14'04		min. Earth dist.	7131 Jul 28 00:28	6°♿10'23	0.55295 AU
direct	7130 Aug 27 06:55	22°♿44'02		morning rise	7131 Aug 03 08:32	3°♿04'11	
morning max el	7130 Sep 09 03:29	28°♿51'18	22°44'06	direct	7131 Aug 07 20:35	2°♿19'29	
	7130 Sep 10 07:47	0°♿		morning max el	7131 Aug 21 16:53	9°♿11'05	24°29'22
asc. node	7130 Sep 23 22:13	19°♿25'36			7131 Sep 06 02:20	0°♿	
	7130 Sep 29 08:50	0°♿		asc. node	7131 Sep 10 19:15	8°♿40'43	
morning set	7130 Oct 01 12:56	4°♿31'00		morning set	7131 Sep 16 00:42	19°♿21'51	
					7131 Sep 20 22:30	0°♿	
superior conj	7130 Oct 08 14:02	19°♿35'29	1°41'41	superior conj	7131 Sep 22 22:28	4°♿22'08	1°36'14
minimum elong	7130 Oct 08 13:34	19°♿32'58	1°41'42	minimum elong	7131 Sep 22 20:59	4°♿14'03	1°36'07
max. Earth dist.	7130 Oct 11 18:12	26°♿16'47	1.33914 AU	max. Earth dist.	7131 Sep 24 19:46	8°♿28'00	1.32746 AU
	7130 Oct 13 13:35	0°♿		evening rise	7131 Sep 30 05:57	19°♿52'20	
evening rise	7130 Oct 16 11:01	5°♿47'19			7131 Oct 05 09:55	0°♿	
desc. node	7130 Oct 29 04:54	28°♿37'00		desc. node	7131 Oct 16 01:56	18°♿21'15	
	7130 Oct 30 01:31	0°♿			7131 Oct 24 04:34	0°♿	
evening max el	7130 Nov 20 02:30	27°♿30'24	27°11'04	evening max el	7131 Nov 02 13:46	10°♿40'57	27°28'22
	7130 Nov 22 21:49	0°♿		retrograde	7131 Nov 16 06:34	17°♿58'47	
retrograde	7130 Dec 03 11:48	4°♿49'47		evening set	7131 Nov 23 08:48	15°♿26'19	
evening set	7130 Dec 10 07:38	2°♿12'00		min. Earth dist.	7131 Nov 27 01:41	12°♿16'13	0.63367 AU
	7130 Dec 12 18:43	30°♿		inferior conj	7131 Nov 29 17:58	9°♿35'48	-2°37'21
min. Earth dist.	7130 Dec 14 05:00	28°♿30'30	0.65051 AU	minimum elong	7131 Nov 29 22:48	9°♿23'43	2°35'26
inferior conj	7130 Dec 16 09:54	26°♿04'02	-1°30'24	morning rise	7131 Dec 06 14:36	4°♿20'18	
minimum elong	7130 Dec 16 12:35	25°♿56'35	1°29'12	asc. node	7131 Dec 07 18:35	4°♿00'14	
asc. node	7130 Dec 20 21:31	21°♿41'39		direct	7131 Dec 08 23:50	3°♿53'02	
morning rise	7130 Dec 22 18:49	20°♿32'36		morning max el	7131 Dec 15 14:08	7°♿17'45	17°48'43
direct	7130 Dec 25 10:10	19°♿55'42			7131 Dec 30 13:34	0°♿	
morning max el	7130 Dec 31 20:51	23°♿20'25	18°01'08	morning set	7131 Dec 31 22:16	2°♿21'57	
	7131 Jan 06 05:29	0°♿		desc. node	7132 Jan 12 01:09	21°♿19'18	
morning set	7131 Jan 18 17:10	19°♿59'49					
	7131 Jan 24 19:10	0°♿		superior conj	7132 Jan 13 03:43	23°♿09'07	-0°07'59
desc. node	7131 Jan 25 04:09	0°♿36'37		minimum elong	7132 Jan 13 02:52	23°♿05'38	0°07'47
				behind sun begin	7132 Jan 12 18:28	22°♿30'58	
superior conj	7131 Feb 01 22:22	13°♿05'05	-0°53'20	behind sun end	7132 Jan 13 11:16	23°♿40'14	
minimum elong	7131 Feb 01 16:02	12°♿39'56	0°52'26		7132 Jan 17 08:30	0°♿	
max. Earth dist.	7131 Feb 05 14:13	18°♿52'08	1.45215 AU	max. Earth dist.	7132 Jan 19 07:56	3°♿10'20	1.44284 AU
	7131 Feb 12 17:17	0°♿		evening rise	7132 Jan 28 14:05	17°♿40'19	
evening rise	7131 Feb 18 03:17	8°♿22'59			7132 Feb 05 16:59	0°♿	
greatest brilliancy	7131 Mar 03 22:48	29°♿25'04	-0.7m	evening max el	7132 Feb 26 17:54	28°♿33'48	20°49'47
	7131 Mar 04 08:15	0°♿			7132 Feb 28 05:41	0°♿	
evening max el	7131 Mar 15 17:16	14°♿56'43	19°45'51				

asc. node	7132 Mar 04 17:43	3°♿18'58		evening rise	7133 Jan 07 08:08	27°♿22'48	
retrograde	7132 Mar 06 02:11	3°♿28'30			7133 Jan 09 00:16	0°♿	
evening set	7132 Mar 10 03:53	1°♿54'11			7133 Jan 29 11:49	0°♿	
	7132 Mar 12 03:47	30°♿		evening max el	7133 Feb 08 13:17	12°♿12'17	22°04'06
inferior conj	7132 Mar 15 11:36	25°♿43'32	2°56'15	retrograde	7133 Feb 17 23:21	17°♿47'33	
minimum elong	7132 Mar 15 09:32	25°♿50'40	2°55'50	asc. node	7133 Feb 19 14:48	17°♿33'35	
min. Earth dist.	7132 Mar 15 23:36	25°♿02'10	0.67911 AU	evening set	7133 Feb 22 11:42	15°♿57'59	
morning rise	7132 Mar 20 14:57	19°♿29'00		inferior conj	7133 Feb 27 19:42	9°♿37'53	2°25'58
direct	7132 Mar 26 01:13	17°♿04'33		minimum elong	7133 Feb 27 17:24	9°♿45'56	2°25'20
morning max el	7132 Apr 05 22:13	23°♿34'22	23°53'51	min. Earth dist.	7133 Feb 27 19:19	9°♿39'14	0.68281 AU
desc. node	7132 Apr 09 00:35	26°♿55'13		morning rise	7133 Mar 04 22:54	3°♿27'03	
	7132 Apr 11 14:54	0°♿		direct	7133 Mar 09 18:58	1°♿23'29	
	7132 May 02 14:58	0°♿		morning max el	7133 Mar 19 08:52	7°♿01'51	22°24'36
morning set	7132 May 11 09:56	14°♿29'34		desc. node	7133 Mar 26 21:34	15°♿49'46	
max. Earth dist.	7132 May 15 04:44	21°♿05'28	1.38453 AU		7133 Apr 06 03:05	0°♿	
	7132 May 20 02:32	0°♿		morning set	7133 Apr 22 00:53	24°♿33'30	
					7133 Apr 25 08:02	0°♿	
superior conj	7132 May 22 12:23	4°♿31'12	-1°22'35	max. Earth dist.	7133 Apr 27 01:40	2°♿54'54	1.40679 AU
minimum elong	7132 May 22 17:13	4°♿54'05	1°21'58				
evening rise	7132 May 31 13:12	22°♿03'44		superior conj	7133 May 04 21:00	16°♿31'21	-1°49'06
asc. node	7132 May 31 16:52	22°♿21'42		minimum elong	7133 May 05 02:30	16°♿56'05	1°48'38
	7132 Jun 04 15:52	0°♿			7133 May 12 04:56	0°♿	
evening max el	7132 Jun 16 21:58	18°♿36'03	18°54'19	evening rise	7133 May 15 01:27	5°♿21'41	
retrograde	7132 Jun 25 09:47	22°♿47'15		asc. node	7133 May 18 13:55	11°♿55'56	
evening set	7132 Jun 27 09:51	22°♿34'12			7133 May 30 01:55	0°♿	
inferior conj	7132 Jul 05 13:39	18°♿17'07	0°07'39	evening max el	7133 May 31 04:08	1°♿08'32	18°20'26
minimum elong	7132 Jul 05 13:57	18°♿16'35	0°07'28	retrograde	7133 Jun 07 11:40	4°♿47'45	
transit middle	7132 Jul 05 13:57	18°♿16'35	0°07'28	evening set	7133 Jun 09 18:49	4°♿27'00	
transit begin	7132 Jul 05 10:39	18°♿22'27			7133 Jun 16 21:44	30°♿	
transit end	7132 Jul 05 17:16	18°♿10'41		inferior conj	7133 Jun 17 02:48	29°♿49'28	1°37'11
desc. node	7132 Jul 05 23:53	17°♿58'53		minimum elong	7133 Jun 17 05:43	29°♿43'23	1°36'11
min. Earth dist.	7132 Jul 08 16:04	16°♿05'42	0.56725 AU	min. Earth dist.	7133 Jun 20 12:43	27°♿00'15	0.58725 AU
morning rise	7132 Jul 13 14:41	13°♿17'12		desc. node	7133 Jun 22 20:53	25°♿17'43	
direct	7132 Jul 19 00:07	12°♿07'35		morning rise	7133 Jun 24 13:27	24°♿16'38	
morning max el	7132 Aug 02 07:01	19°♿32'05	26°05'10	direct	7133 Jun 30 17:26	22°♿35'22	
	7132 Aug 11 04:28	0°♿			7133 Jul 14 18:01	0°♿	
asc. node	7132 Aug 27 16:15	28°♿17'06		morning max el	7133 Jul 15 02:37	0°♿20'53	27°15'56
	7132 Aug 28 12:18	0°♿			7133 Aug 05 05:20	0°♿	
morning set	7132 Aug 30 11:42	4°♿08'20		morning set	7133 Aug 14 20:19	18°♿45'49	
				asc. node	7133 Aug 14 13:14	18°♿08'37	
					7133 Aug 20 01:02	0°♿	
superior conj	7132 Sep 06 09:32	19°♿14'01	1°25'14				
minimum elong	7132 Sep 06 07:26	19°♿02'27	1°24'58	superior conj	7133 Aug 21 21:22	4°♿05'18	1°09'16
max. Earth dist.	7132 Sep 07 03:30	20°♿53'15	1.32028 AU	minimum elong	7133 Aug 21 19:07	3°♿52'46	1°08'52
	7132 Sep 11 07:50	0°♿		max. Earth dist.	7133 Aug 21 14:08	3°♿25'10	1.31756 AU
evening rise	7132 Sep 13 08:32	4°♿17'46		evening rise	7133 Aug 28 16:17	18°♿56'12	
	7132 Sep 27 02:45	0°♿			7133 Sep 03 02:19	0°♿	
desc. node	7132 Oct 01 23:00	7°♿30'23		desc. node	7133 Sep 18 20:02	25°♿50'22	
evening max el	7132 Oct 14 21:12	23°♿15'59	27°13'59		7133 Sep 22 03:47	0°♿	
	7132 Oct 25 10:28	0°♿		evening max el	7133 Sep 26 22:06	5°♿04'18	26°25'44
retrograde	7132 Oct 28 17:54	0°♿28'14		retrograde	7133 Oct 10 20:16	12°♿10'38	
	7132 Oct 31 23:13	30°♿		evening set	7133 Oct 17 12:03	10°♿21'39	
evening set	7132 Nov 04 19:48	28°♿12'00		min. Earth dist.	7133 Oct 21 11:32	7°♿46'58	0.59354 AU
min. Earth dist.	7132 Nov 08 11:57	25°♿25'58	0.61425 AU	inferior conj	7133 Oct 24 16:37	5°♿18'42	-4°43'10
inferior conj	7132 Nov 11 13:23	22°♿43'49	-3°44'03	minimum elong	7133 Oct 24 23:17	5°♿05'49	4°41'43
minimum elong	7132 Nov 11 19:57	22°♿29'15	3°41'56	morning rise	7133 Nov 01 12:45	0°♿44'20	
morning rise	7132 Nov 18 22:14	17°♿47'23		direct	7133 Nov 03 19:36	0°♿25'56	
direct	7132 Nov 21 04:21	17°♿26'08		asc. node	7133 Nov 10 12:38	3°♿14'30	
asc. node	7132 Nov 23 15:38	17°♿52'36		morning max el	7133 Nov 11 15:50	4°♿15'53	18°20'03
morning max el	7132 Nov 28 05:36	20°♿59'13	17°54'32	morning set	7133 Nov 27 12:55	29°♿34'28	
	7132 Dec 05 00:33	0°♿			7133 Nov 27 18:16	0°♿	
morning set	7132 Dec 13 22:45	15°♿39'03					
	7132 Dec 21 21:49	0°♿		superior conj	7133 Dec 06 17:40	16°♿53'37	1°03'16
superior conj	7132 Dec 24 10:58	4°♿27'38	0°32'12	minimum elong	7133 Dec 06 21:16	17°♿10'06	1°02'53
minimum elong	7132 Dec 24 13:38	4°♿39'08	0°31'53		7133 Dec 14 03:07	0°♿	
desc. node	7132 Dec 28 22:10	12°♿04'56		max. Earth dist.	7133 Dec 14 07:11	0°♿17'24	1.40805 AU
max. Earth dist.	7132 Dec 31 21:51	17°♿02'36	1.42757 AU	desc. node	7133 Dec 15 19:11	2°♿50'21	

evening rise	7133 Dec 18 20:51	7°♄57'08			7134 Dec 06 14:11	0°♄	
	7134 Jan 02 02:20	0°♄			7134 Dec 27 07:01	0°♄	
evening max el	7134 Jan 22 04:42	25°♄53'38	23°23'40	evening max el	7135 Jan 04 17:57	9°♄38'21	24°42'23
	7134 Jan 27 00:05	0°♄		retrograde	7135 Jan 16 08:32	16°♄24'34	
retrograde	7134 Feb 01 17:48	2°♄07'39		evening set	7135 Jan 21 21:41	14°♄05'51	
asc. node	7134 Feb 06 11:50	0°♄15'54		asc. node	7135 Jan 24 08:51	11°♄34'43	
evening set	7134 Feb 06 18:08	0°♄02'56		min. Earth dist.	7135 Jan 26 11:29	8°♄55'15	0.67819 AU
	7134 Feb 06 19:31	30°♄		inferior conj	7135 Jan 27 10:46	7°♄38'01	1°00'38
min. Earth dist.	7134 Feb 11 16:01	24°♄18'07	0.68245 AU	minimum elong	7135 Jan 27 09:23	7°♄42'38	1°00'08
inferior conj	7134 Feb 12 04:01	23°♄36'53	1°47'11	morning rise	7135 Feb 01 21:15	1°♄38'55	
minimum elong	7134 Feb 12 01:56	23°♄44'05	1°46'30	direct	7135 Feb 05 14:16	0°♄20'02	
morning rise	7134 Feb 17 09:40	17°♄31'07		morning max el	7135 Feb 13 01:12	4°♄31'13	19°51'10
direct	7134 Feb 21 15:42	15°♄50'20		greatest brilliancy	7135 Feb 26 01:40	21°♄29'21	-0.6m
morning max el	7134 Mar 02 01:06	20°♄40'03	21°01'51	desc. node	7135 Feb 28 15:34	25°♄18'11	
	7134 Mar 09 20:56	0°♄			7135 Mar 03 18:40	0°♄	
desc. node	7134 Mar 13 18:33	5°♄20'37		morning set	7135 Mar 11 09:39	11°♄38'23	
	7134 Mar 30 08:32	0°♄		max. Earth dist.	7135 Mar 22 16:04	29°♄15'41	1.44282 AU
morning set	7134 Apr 01 12:34	3°♄22'47			7135 Mar 23 03:12	0°♄	
max. Earth dist.	7134 Apr 09 05:14	15°♄40'25	1.42709 AU				
				superior conj	7135 Mar 27 17:35	7°♄23'37	-2°10'00
superior conj	7134 Apr 16 07:47	27°♄30'26	-2°06'54	minimum elong	7135 Mar 27 15:26	7°♄14'55	2°09'59
minimum elong	7134 Apr 16 11:18	27°♄45'26	2°06'48	evening rise	7135 Apr 10 02:26	29°♄40'56	
	7134 Apr 17 18:47	0°♄			7135 Apr 10 06:55	0°♄	
evening rise	7134 Apr 27 23:21	17°♄57'04		asc. node	7135 Apr 22 07:59	19°♄55'17	
	7134 May 04 18:41	0°♄		evening max el	7135 Apr 28 04:33	27°♄24'49	18°11'18
asc. node	7134 May 05 10:57	1°♄09'20			7135 May 01 13:35	0°♄	
evening max el	7134 May 14 15:26	14°♄07'31	18°06'20	retrograde	7135 May 04 14:03	0°♄47'25	
retrograde	7134 May 21 06:36	17°♄31'05		evening set	7135 May 07 11:18	0°♄03'58	
evening set	7134 May 23 20:59	16°♄59'51			7135 May 07 14:26	30°♄	
inferior conj	7134 May 30 12:01	12°♄01'53	2°37'31	inferior conj	7135 May 13 13:28	24°♄47'07	3°11'56
minimum elong	7134 May 30 15:04	11°♄54'32	2°36'44	minimum elong	7135 May 13 15:22	24°♄41'55	3°11'37
min. Earth dist.	7134 Jun 02 16:44	8°♄58'05	0.60950 AU	min. Earth dist.	7135 May 16 05:52	21°♄52'04	0.63107 AU
morning rise	7134 Jun 06 06:51	6°♄05'41		morning rise	7135 May 19 18:03	18°♄37'38	
desc. node	7134 Jun 09 17:55	4°♄23'25		direct	7135 May 26 13:08	16°♄01'37	
direct	7134 Jun 12 22:22	3°♄53'14		desc. node	7135 May 27 14:56	16°♄05'14	
morning max el	7134 Jun 27 05:00	11°♄51'23	27°51'26	morning max el	7135 Jun 09 12:39	24°♄03'59	27°48'43
	7134 Jul 11 11:51	0°♄			7135 Jun 14 20:40	0°♄	
	7134 Jul 28 11:54	0°♄			7135 Jul 04 20:38	0°♄	
morning set	7134 Jul 30 00:41	3°♄07'55		morning set	7135 Jul 13 22:38	17°♄08'14	
asc. node	7134 Aug 01 10:13	8°♄09'20		max. Earth dist.	7135 Jul 19 04:19	27°♄59'15	1.32544 AU
max. Earth dist.	7134 Aug 04 23:46	15°♄51'24	1.31923 AU	asc. node	7135 Jul 19 07:14	28°♄14'51	
					7135 Jul 20 02:55	0°♄	
superior conj	7134 Aug 06 08:10	18°♄49'17	0°48'44				
minimum elong	7134 Aug 06 06:13	18°♄38'34	0°48'18	superior conj	7135 Jul 21 16:08	3°♄20'33	0°24'09
	7134 Aug 11 10:11	0°♄		minimum elong	7135 Jul 21 15:00	3°♄14'28	0°23'51
evening rise	7134 Aug 13 02:57	3°♄39'55		evening rise	7135 Jul 28 14:39	18°♄22'58	
	7134 Aug 27 02:18	0°♄			7135 Aug 03 06:48	0°♄	
desc. node	7134 Sep 05 17:04	13°♄00'53		evening max el	7135 Aug 21 02:37	26°♄23'12	23°31'55
evening max el	7134 Sep 08 14:52	16°♄01'38	25°07'42	desc. node	7135 Aug 23 14:06	28°♄35'27	
retrograde	7134 Sep 22 12:11	23°♄02'31			7135 Aug 25 11:29	0°♄	
evening set	7134 Sep 28 04:51	21°♄48'41		retrograde	7135 Sep 03 16:17	3°♄11'13	
min. Earth dist.	7134 Oct 03 02:18	19°♄07'18	0.57358 AU	evening set	7135 Sep 07 22:01	2°♄31'49	
inferior conj	7134 Oct 06 00:28	17°♄10'08	-5°22'18		7135 Sep 13 12:19	30°♄	
minimum elong	7134 Oct 06 03:53	17°♄04'24	5°22'00	min. Earth dist.	7135 Sep 14 12:25	29°♄25'17	0.55740 AU
morning rise	7134 Oct 14 05:12	12°♄58'56		inferior conj	7135 Sep 16 12:15	28°♄14'15	-5°23'44
direct	7134 Oct 16 17:06	12°♄40'45		minimum elong	7135 Sep 16 08:53	28°♄19'17	5°23'29
morning max el	7134 Oct 25 17:19	16°♄57'25	19°06'58	morning rise	7135 Sep 24 22:03	24°♄20'57	
asc. node	7134 Oct 28 09:38	19°♄51'50		direct	7135 Sep 27 18:57	24°♄00'42	
	7134 Nov 04 03:52	0°♄		morning max el	7135 Oct 08 07:06	28°♄55'08	20°16'03
morning set	7134 Nov 11 12:25	13°♄55'10			7135 Oct 09 09:29	0°♄	
				asc. node	7135 Oct 15 06:39	7°♄29'35	
superior conj	7134 Nov 19 18:36	0°♄12'00	1°24'42	morning set	7135 Oct 26 18:07	28°♄32'11	
minimum elong	7134 Nov 19 21:34	0°♄26'16	1°24'29		7135 Oct 27 11:16	0°♄	
	7134 Nov 19 16:07	0°♄					
max. Earth dist.	7134 Nov 26 12:57	12°♄49'34	1.38657 AU	superior conj	7135 Nov 03 08:50	14°♄08'26	1°37'16
evening rise	7134 Nov 30 07:51	19°♄30'56		minimum elong	7135 Nov 03 10:29	14°♄16'47	1°37'13
desc. node	7134 Dec 02 16:12	23°♄31'42		max. Earth dist.	7135 Nov 08 19:15	24°♄49'39	1.36578 AU

	7135 Nov 11 13:18	0°♊			7136 Oct 03 10:45	0°♎	
evening rise	7135 Nov 12 15:25	1°♊59'54		morning set	7136 Oct 10 03:43	13°♎19'27	
desc. node	7135 Nov 19 13:13	14°♊04'31					
	7135 Nov 29 16:17	0°♋		superior conj	7136 Oct 17 08:30	28°♎31'52	1°42'03
evening max el	7135 Dec 18 06:45	23°♋23'56	25°53'18	minimum elong	7136 Oct 17 08:45	28°♎33'13	1°42'05
	7135 Dec 27 17:45	0°♌			7136 Oct 18 01:22	0°♌	
retrograde	7135 Dec 30 18:36	0°♌31'48		max. Earth dist.	7136 Oct 21 07:47	6°♌42'46	1.34776 AU
	7136 Jan 02 15:07	30°♌♋		evening rise	7136 Oct 25 15:50	15°♌15'01	
evening set	7136 Jan 05 20:39	28°♋01'52			7136 Nov 02 19:15	0°♊	
min. Earth dist.	7136 Jan 10 03:31	23°♋25'48	0.67021 AU	desc. node	7136 Nov 05 10:16	4°♊24'14	
asc. node	7136 Jan 11 05:55	22°♋02'54			7136 Nov 23 07:24	0°♋	
inferior conj	7136 Jan 11 14:03	21°♋37'15	0°06'50	evening max el	7136 Nov 29 19:58	7°♋05'22	26°48'54
minimum elong	7136 Jan 11 13:52	21°♋37'49	0°06'50	retrograde	7136 Dec 12 23:14	14°♋23'03	
transit middle	7136 Jan 11 13:52	21°♋37'49	0°06'50	evening set	7136 Dec 19 13:06	11°♋46'32	
transit begin	7136 Jan 11 11:18	21°♋45'54		min. Earth dist.	7136 Dec 23 13:49	7°♋45'06	0.65871 AU
transit end	7136 Jan 11 16:26	21°♋29'45		inferior conj	7136 Dec 25 11:52	5°♋30'44	-0°53'19
morning rise	7136 Jan 17 07:39	15°♋46'42		minimum elong	7136 Dec 25 13:23	5°♋26'18	0°52'35
direct	7136 Jan 20 13:08	14°♋47'02		asc. node	7136 Dec 28 02:58	2°♋35'35	
morning max el	7136 Jan 27 08:54	18°♋31'38	18°55'26		7136 Dec 31 08:07	30°♌♊	
	7136 Feb 05 07:36	0°♌		morning rise	7136 Dec 31 14:38	29°♊51'13	
desc. node	7136 Feb 15 12:34	15°♌34'38		direct	7137 Jan 03 10:33	29°♊07'04	
morning set	7136 Feb 18 16:26	20°♌30'12			7137 Jan 06 14:21	0°♋	
	7136 Feb 24 18:29	0°♌		morning max el	7137 Jan 09 22:27	2°♋36'15	18°16'01
max. Earth dist.	7136 Mar 04 08:08	13°♌24'18	1.45224 AU		7137 Jan 28 14:58	0°♌	
				morning set	7137 Jan 29 02:27	0°♌46'17	
superior conj	7136 Mar 06 05:35	16°♌22'57	-1°53'36	desc. node	7137 Feb 01 09:35	6°♌04'46	
minimum elong	7136 Mar 05 21:11	15°♌49'54	1°52'58				
	7136 Mar 14 19:30	0°♍		superior conj	7137 Feb 13 09:52	25°♌08'34	-1°18'39
evening rise	7136 Mar 21 06:49	10°♍26'36		minimum elong	7137 Feb 13 00:59	24°♌33'40	1°17'35
	7136 Apr 02 11:16	0°♎		max. Earth dist.	7137 Feb 15 03:20	27°♌51'11	1.45440 AU
asc. node	7136 Apr 08 05:02	8°♎04'49			7137 Feb 16 12:14	0°♌	
evening max el	7136 Apr 10 16:39	10°♎53'10	18°34'39	evening rise	7137 Mar 01 12:23	20°♌18'55	
retrograde	7136 Apr 17 05:37	14°♎27'54			7137 Mar 07 17:13	0°♍	
evening set	7136 Apr 20 09:50	13°♎31'02		greatest brilliancy	7137 Mar 12 20:39	7°♍56'44	-0.7m
inferior conj	7136 Apr 26 03:00	7°♎56'53	3°25'51	evening max el	7137 Mar 25 01:28	24°♍27'36	19°15'19
minimum elong	7136 Apr 26 03:28	7°♎55'31	3°25'48	asc. node	7137 Mar 26 02:06	25°♍27'02	
min. Earth dist.	7136 Apr 28 04:18	5°♎28'52	0.64989 AU	retrograde	7137 Apr 01 01:54	28°♍26'01	
morning rise	7136 May 01 20:21	1°♎41'33		evening set	7137 Apr 04 13:41	27°♍14'56	
	7136 May 04 06:58	30°♎♍		inferior conj	7137 Apr 10 01:08	21°♍25'00	3°23'54
direct	7136 May 08 11:52	28°♍54'07		minimum elong	7137 Apr 10 00:19	21°♍27'39	3°23'50
desc. node	7136 May 13 11:58	0°♎13'06		min. Earth dist.	7137 Apr 11 11:04	19°♍35'22	0.66474 AU
	7136 May 13 01:01	0°♎		morning rise	7137 Apr 15 10:35	15°♍08'17	
morning max el	7136 May 21 22:38	6°♎48'54	27°11'20	direct	7137 Apr 21 17:10	12°♍22'15	
	7136 Jun 08 18:28	0°♏		desc. node	7137 Apr 30 09:00	16°♍16'09	
morning set	7136 Jun 26 11:22	0°♏38'43		morning max el	7137 May 04 08:37	19°♍54'46	26°06'52
	7136 Jun 26 03:21	0°♏			7137 May 12 23:32	0°♎	
max. Earth dist.	7136 Jun 30 23:58	9°♏39'16	1.33639 AU		7137 Jun 01 21:07	0°♏	
				morning set	7137 Jun 09 11:12	13°♏29'02	
superior conj	7136 Jul 04 19:13	17°♏33'12	-0°03'52	max. Earth dist.	7137 Jun 13 08:40	20°♏52'21	1.35218 AU
minimum elong	7136 Jul 04 19:26	17°♏34'17	0°03'54		7137 Jun 17 23:09	0°♏	
behind sun begin	7136 Jul 04 14:00	17°♏05'39					
behind sun end	7136 Jul 05 00:52	18°♏02'57		superior conj	7137 Jun 18 14:58	1°♏20'21	-0°34'13
asc. node	7136 Jul 05 04:17	18°♏21'01		minimum elong	7137 Jun 18 16:56	1°♏30'19	0°33'55
	7136 Jul 10 15:33	0°♐		asc. node	7137 Jun 22 01:19	8°♏23'43	
evening rise	7136 Jul 12 01:31	2°♐59'41		evening rise	7137 Jun 26 09:32	17°♏24'02	
	7136 Jul 27 01:15	0°♑			7137 Jul 02 18:27	0°♐	
evening max el	7136 Aug 01 17:29	6°♑42'12	21°54'43	evening max el	7137 Jul 14 18:55	17°♐29'19	20°29'23
desc. node	7136 Aug 09 11:08	12°♑01'48		retrograde	7137 Jul 25 20:54	22°♐57'00	
retrograde	7136 Aug 14 08:48	12°♑58'32		desc. node	7137 Jul 27 08:12	22°♐51'36	
evening set	7136 Aug 17 04:00	12°♑41'00		evening set	7137 Jul 27 21:07	22°♐47'01	
inferior conj	7136 Aug 26 08:51	8°♑39'44	-4°32'31	inferior conj	7137 Aug 06 02:04	18°♐49'57	-2°53'20
minimum elong	7136 Aug 25 23:57	8°♑52'13	4°30'30	minimum elong	7137 Aug 05 18:15	19°♐01'15	2°50'42
min. Earth dist.	7136 Aug 25 21:39	8°♑55'25	0.54828 AU	min. Earth dist.	7137 Aug 07 07:55	18°♐06'46	0.54849 AU
morning rise	7136 Sep 03 21:16	4°♑50'12		morning rise	7137 Aug 14 14:43	14°♐44'30	
direct	7136 Sep 07 06:33	4°♑24'54		direct	7137 Aug 18 16:05	14°♐09'08	
morning max el	7136 Sep 19 08:20	10°♑05'35	21°45'41	morning max el	7137 Aug 31 23:59	20°♐36'15	23°29'00
asc. node	7136 Oct 01 03:41	25°♑54'12			7137 Sep 08 23:52	0°♑	

asc. node	7137 Sep 18 00:43	14°♎53'20			7138 Aug 12 14:11	0°♏	
morning set	7137 Sep 24 15:10	28°♎10'09		morning max el	7138 Aug 13 12:51	0°♏52'27	25°12'23
	7137 Sep 25 11:50	0°♏			7138 Sep 02 16:38	0°♎	
				asc. node	7138 Sep 04 21:44	4°♎18'20	
superior conj	7137 Oct 01 14:24	13°♏11'46	1°40'05	morning set	7138 Sep 09 02:48	12°♎59'36	
minimum elong	7137 Oct 01 13:28	13°♏06'41	1°40'04				
max. Earth dist.	7137 Oct 04 04:56	18°♏45'59	1.33364 AU	superior conj	7138 Sep 16 00:10	28°♎00'56	1°32'12
evening rise	7137 Oct 09 05:00	29°♏04'16		minimum elong	7138 Sep 15 22:22	27°♎51'06	1°32'02
	7137 Oct 09 16:12	0°♎			7138 Sep 16 21:53	0°♏	
desc. node	7137 Oct 23 07:18	24°♎23'36		max. Earth dist.	7138 Sep 17 09:38	1°♏04'16	1.32388 AU
	7137 Oct 26 22:11	0°♎		evening rise	7138 Sep 23 03:30	13°♏18'28	
evening max el	7137 Nov 12 08:35	20°♎31'04	27°22'03		7138 Oct 01 19:04	0°♎	
retrograde	7137 Nov 25 21:28	27°♎49'39		desc. node	7138 Oct 10 04:19	13°♎54'07	
evening set	7137 Dec 02 20:39	25°♎13'17			7138 Oct 22 09:16	0°♎	
min. Earth dist.	7137 Dec 06 16:00	21°♎45'29	0.64377 AU	evening max el	7138 Oct 25 18:31	3°♎27'38	27°26'18
inferior conj	7137 Dec 09 01:44	19°♎12'12	-1°58'29	retrograde	7138 Nov 08 12:54	10°♎42'42	
minimum elong	7137 Dec 09 05:19	19°♎02'38	1°56'57	evening set	7138 Nov 15 16:13	8°♎15'39	
asc. node	7137 Dec 15 00:02	14°♎05'07		min. Earth dist.	7138 Nov 19 08:08	5°♎17'12	0.62573 AU
morning rise	7137 Dec 15 15:28	13°♎46'49		inferior conj	7138 Nov 22 04:46	2°♎34'28	-3°05'58
direct	7137 Dec 18 03:58	13°♎14'21		minimum elong	7138 Nov 22 10:27	2°♎20'58	3°03'53
morning max el	7137 Dec 24 15:12	16°♎37'54	17°53'37		7138 Nov 25 01:21	30°♎	
	7138 Jan 03 06:32	0°♎		morning rise	7138 Nov 29 06:37	27°♎26'45	
morning set	7138 Jan 10 17:22	12°♎27'39		direct	7138 Dec 01 14:16	27°♎02'20	
desc. node	7138 Jan 19 06:35	26°♎43'48		asc. node	7138 Dec 01 21:05	27°♎02'43	
	7138 Jan 21 06:33	0°♎			7138 Dec 07 19:50	0°♎	
				morning max el	7138 Dec 08 08:04	0°♎29'11	17°48'55
superior conj	7138 Jan 24 01:55	4°♎32'44	-0°33'52	morning set	7138 Dec 24 07:28	25°♎15'25	
minimum elong	7138 Jan 23 21:59	4°♎16'53	0°33'16		7138 Dec 26 23:47	0°♎	
max. Earth dist.	7138 Jan 28 22:52	12°♎19'08	1.44911 AU				
evening rise	7138 Feb 09 02:10	29°♎39'16		superior conj	7139 Jan 04 18:13	15°♎08'23	0°10'04
	7138 Feb 09 07:34	0°♎		minimum elong	7139 Jan 04 19:11	15°♎12'31	0°09'59
greatest brilliancy	7138 Feb 23 21:01	21°♎56'23	-0.6m	behind sun begin	7139 Jan 04 12:05	14°♎42'35	
	7138 Mar 01 13:46	0°♎		behind sun end	7139 Jan 05 02:18	15°♎42'24	
evening max el	7138 Mar 08 05:19	8°♎04'16	20°11'31	desc. node	7139 Jan 06 03:33	17°♎28'03	
asc. node	7138 Mar 12 23:10	11°♎48'21		max. Earth dist.	7139 Jan 11 15:37	26°♎29'43	1.43702 AU
retrograde	7138 Mar 16 00:12	12°♎36'13			7139 Jan 13 20:02	0°♎	
evening set	7138 Mar 19 20:32	11°♎10'18		evening rise	7139 Jan 19 14:12	9°♎02'53	
inferior conj	7138 Mar 25 04:58	5°♎06'27	3°09'26		7139 Feb 02 12:55	0°♎	
minimum elong	7138 Mar 25 03:14	5°♎12'20	3°09'08	evening max el	7139 Feb 19 03:32	21°♎41'30	21°20'21
min. Earth dist.	7138 Mar 26 00:31	4°♎00'10	0.67515 AU	retrograde	7139 Feb 27 22:21	26°♎53'23	
	7138 Mar 29 05:51	30°♎		asc. node	7139 Feb 27 20:13	26°♎53'21	
morning rise	7138 Mar 30 09:42	28°♎50'50		evening set	7139 Mar 04 04:29	25°♎12'22	
direct	7138 Apr 05 03:53	26°♎16'35		inferior conj	7139 Mar 09 12:05	18°♎57'06	2°44'31
	7138 Apr 13 06:09	0°♎		minimum elong	7139 Mar 09 09:51	19°♎04'50	2°43'59
morning max el	7138 Apr 16 17:43	3°♎12'17	24°44'58	min. Earth dist.	7139 Mar 09 18:36	18°♎34'29	0.68120 AU
desc. node	7138 Apr 17 06:01	3°♎43'47		morning rise	7139 Mar 14 15:04	12°♎44'04	
	7138 May 07 04:13	0°♎		direct	7139 Mar 19 19:13	10°♎28'25	
morning set	7138 May 22 17:22	25°♎26'36		morning max el	7139 Mar 30 03:05	16°♎36'32	23°15'36
	7138 May 25 06:30	0°♎		desc. node	7139 Apr 04 03:00	22°♎11'45	
max. Earth dist.	7138 May 26 08:11	1°♎57'02	1.37201 AU		7139 Apr 10 04:18	0°♎	
					7139 Apr 30 05:03	0°♎	
superior conj	7138 Jun 02 00:17	14°♎34'09	-1°05'18	morning set	7139 May 04 00:05	6°♎15'37	
minimum elong	7138 Jun 02 04:10	14°♎53'02	1°04'44	max. Earth dist.	7139 May 08 04:05	13°♎22'18	1.39408 AU
asc. node	7138 Jun 08 22:20	28°♎19'18					
	7138 Jun 09 18:25	0°♎		superior conj	7139 May 15 19:09	27°♎03'47	-1°34'35
evening rise	7138 Jun 10 12:19	1°♎29'38		minimum elong	7139 May 16 00:29	27°♎28'29	1°33'58
evening max el	7138 Jun 27 09:18	28°♎59'41	19°22'59		7139 May 17 08:59	0°♎	
	7138 Jun 28 11:15	0°♎		evening rise	7139 May 25 06:52	15°♎07'28	
retrograde	7138 Jul 06 18:12	3°♎36'28		asc. node	7139 May 26 19:21	18°♎02'38	
evening set	7138 Jul 08 15:38	3°♎25'59			7139 Jun 02 08:01	0°♎	
desc. node	7138 Jul 14 05:14	1°♎12'23		evening max el	7139 Jun 10 10:38	11°♎11'21	18°37'21
	7138 Jul 16 04:46	30°♎		retrograde	7139 Jun 18 09:12	15°♎07'27	
inferior conj	7138 Jul 17 06:32	29°♎18'25	-0°55'38	evening set	7139 Jun 20 11:57	14°♎51'38	
minimum elong	7138 Jul 17 04:03	29°♎22'28	0°54'44	inferior conj	7139 Jun 28 07:08	10°♎25'51	0°49'12
min. Earth dist.	7138 Jul 19 20:58	27°♎37'09	0.55814 AU	minimum elong	7139 Jun 28 08:55	10°♎22'28	0°48'29
morning rise	7138 Jul 25 13:47	24°♎40'09		desc. node	7139 Jul 01 02:17	8°♎18'11	
direct	7138 Jul 30 10:52	23°♎46'13		min. Earth dist.	7139 Jul 01 14:30	7°♎55'48	0.57525 AU

morning rise	7139 Jul 06 02:25	5°♄10'37		direct	7140 Jun 22 18:59	14°♄36'22	
direct	7139 Jul 11 20:05	3°♄48'14		morning max el	7140 Jul 07 03:46	22°♄29'11	27°35'35
morning max el	7139 Jul 26 05:11	11°♄23'14	26°39'11		7140 Jul 13 19:10	0°♄	
	7139 Aug 09 15:28	0°♄			7140 Aug 01 16:53	0°♄	
asc. node	7139 Aug 22 18:43	24°♄01'41		morning set	7140 Aug 07 19:59	12°♄14'12	
morning set	7139 Aug 24 12:58	27°♄42'42		asc. node	7140 Aug 08 15:41	13°♄57'38	
	7139 Aug 25 14:44	0°♄		max. Earth dist.	7140 Aug 14 05:27	26°♄02'47	1.31766 AU
superior conj	7139 Aug 31 11:45	12°♄52'55	1°19'02	superior conj	7140 Aug 14 23:21	27°♄41'48	1°01'04
minimum elong	7139 Aug 31 09:32	12°♄40'36	1°18'43	minimum elong	7140 Aug 14 21:10	27°♄29'42	1°00'39
max. Earth dist.	7139 Aug 31 19:00	13°♄33'03	1.31853 AU		7140 Aug 16 00:20	0°♄	
evening rise	7139 Sep 07 08:31	27°♄49'40		evening rise	7140 Aug 21 17:43	12°♄30'49	
	7139 Sep 08 09:25	0°♄			7140 Aug 30 12:43	0°♄	
	7139 Sep 25 03:57	0°♄		desc. node	7140 Sep 12 22:25	20°♄37'39	
desc. node	7139 Sep 27 01:22	2°♄44'19		evening max el	7140 Sep 18 20:31	27°♄08'34	25°55'43
evening max el	7139 Oct 07 23:12	15°♄42'47	26°57'29		7140 Sep 22 04:41	0°♄	
retrograde	7139 Oct 21 20:44	22°♄53'07		retrograde	7140 Oct 02 19:16	4°♄13'35	
evening set	7139 Oct 28 19:51	20°♄46'47		evening set	7140 Oct 09 02:38	2°♄39'04	
min. Earth dist.	7139 Nov 01 13:33	18°♄07'50	0.60544 AU		7140 Oct 13 11:21	30°♄	
inferior conj	7139 Nov 04 17:41	15°♄29'11	-4°10'41	min. Earth dist.	7140 Oct 13 09:16	0°♄03'39	0.58466 AU
minimum elong	7139 Nov 05 00:36	15°♄14'43	4°08'44	inferior conj	7140 Oct 16 12:58	27°♄46'26	-5°03'18
morning rise	7139 Nov 12 07:36	10°♄42'15		minimum elong	7140 Oct 16 18:45	27°♄35'53	5°02'19
direct	7139 Nov 14 13:28	10°♄22'39		morning rise	7140 Oct 24 13:10	23°♄22'07	
asc. node	7139 Nov 18 18:06	11°♄34'27		direct	7140 Oct 26 21:25	23°♄04'15	
morning max el	7139 Nov 21 21:49	14°♄01'40	18°03'00	morning max el	7140 Nov 04 04:47	27°♄04'45	18°37'23
	7139 Dec 02 18:44	0°♄		asc. node	7140 Nov 04 15:07	27°♄30'12	
morning set	7139 Dec 07 14:23	8°♄50'38			7140 Nov 06 20:22	0°♄	
				morning set	7140 Nov 20 08:57	22°♄57'50	
superior conj	7139 Dec 17 12:05	26°♄58'00	0°46'33		7140 Nov 23 23:55	0°♄	
minimum elong	7139 Dec 17 15:24	27°♄12'43	0°46'10				
	7139 Dec 19 05:23	0°♄		superior conj	7140 Nov 29 03:09	9°♄47'53	1°13'30
desc. node	7139 Dec 24 00:33	8°♄14'20		minimum elong	7140 Nov 29 06:37	10°♄04'05	1°13'10
max. Earth dist.	7139 Dec 25 03:23	10°♄06'51	1.41957 AU	max. Earth dist.	7140 Dec 06 10:20	23°♄01'05	1.39892 AU
evening rise	7139 Dec 30 15:14	19°♄05'27		desc. node	7140 Dec 09 21:33	28°♄58'30	
	7140 Jan 06 14:51	0°♄		evening rise	7140 Dec 10 13:23	0°♄05'10	
	7140 Jan 28 01:52	0°♄			7140 Dec 10 12:09	0°♄	
evening max el	7140 Feb 01 20:54	5°♄21'06	22°37'34		7140 Dec 30 00:55	0°♄	
retrograde	7140 Feb 11 18:41	11°♄14'05		evening max el	7141 Jan 14 11:11	19°♄04'09	23°57'42
asc. node	7140 Feb 14 17:16	10°♄29'53		retrograde	7141 Jan 25 11:45	25°♄33'19	
evening set	7140 Feb 16 11:56	9°♄17'59		evening set	7141 Jan 30 17:20	23°♄22'41	
inferior conj	7140 Feb 21 20:32	2°♄54'37	2°10'33	asc. node	7141 Jan 31 14:19	22°♄34'33	
minimum elong	7140 Feb 21 18:15	3°♄02'31	2°09'52	min. Earth dist.	7141 Feb 04 11:40	17°♄52'07	0.68108 AU
min. Earth dist.	7140 Feb 21 15:06	3°♄13'29	0.68311 AU	inferior conj	7141 Feb 05 04:25	16°♄55'16	1°28'24
	7140 Feb 24 00:16	30°♄		minimum elong	7141 Feb 05 02:34	17°♄01'34	1°27'45
morning rise	7140 Feb 27 00:27	26°♄45'34		morning rise	7141 Feb 10 11:48	10°♄51'50	
direct	7140 Mar 02 14:22	24°♄51'48		direct	7141 Feb 14 12:09	9°♄20'28	
morning max el	7140 Mar 11 15:51	0°♄09'11	21°48'11	morning max el	7141 Feb 22 11:10	13°♄52'40	20°30'02
	7140 Mar 11 12:09	0°♄			7141 Mar 07 02:18	0°♄	
desc. node	7140 Mar 20 23:59	11°♄23'42		desc. node	7141 Mar 07 20:58	1°♄07'07	
	7140 Apr 02 23:02	0°♄		morning set	7141 Mar 23 05:57	24°♄14'03	
morning set	7140 Apr 13 03:00	15°♄46'38			7141 Mar 26 22:34	0°♄	
max. Earth dist.	7140 Apr 19 03:04	25°♄33'50	1.41585 AU	max. Earth dist.	7141 Apr 01 09:20	8°♄40'23	1.43450 AU
	7140 Apr 21 18:32	0°♄					
superior conj	7140 Apr 26 19:01	8°♄39'09	-1°58'04	superior conj	7141 Apr 07 19:25	19°♄10'59	-2°10'22
minimum elong	7140 Apr 27 00:06	9°♄01'29	1°57'44	minimum elong	7141 Apr 07 20:57	19°♄17'21	2°10'23
evening rise	7140 May 07 13:34	28°♄08'40			7141 Apr 14 04:47	0°♄	
	7140 May 08 13:44	0°♄		evening rise	7141 Apr 20 04:01	10°♄23'21	
asc. node	7140 May 12 16:22	7°♄28'52		asc. node	7141 Apr 29 13:25	26°♄31'57	
evening max el	7140 May 23 19:25	23°♄56'21	18°12'02		7141 May 01 18:38	0°♄	
retrograde	7140 May 30 18:42	27°♄26'59		evening max el	7141 May 07 07:58	7°♄05'02	18°06'11
evening set	7140 Jun 02 04:52	27°♄02'11		retrograde	7141 May 13 19:23	10°♄26'06	
inferior conj	7140 Jun 09 05:14	22°♄16'08	2°06'16	evening set	7141 May 16 12:47	9°♄49'48	
minimum elong	7140 Jun 09 08:26	22°♄09'01	2°05'16	inferior conj	7141 May 22 21:53	4°♄43'49	2°54'55
min. Earth dist.	7140 Jun 12 14:18	19°♄17'20	0.59666 AU	minimum elong	7141 May 23 00:32	4°♄37'04	2°54'21
morning rise	7140 Jun 16 09:05	16°♄31'45		min. Earth dist.	7141 May 25 22:04	1°♄41'01	0.61898 AU
desc. node	7140 Jun 16 23:19	16°♄11'34		morning rise	7141 May 27 18:07	30°♄	
					7141 May 29 10:23	28°♄41'09	

desc. node	7141 Jun 03 20:21	26°♄22'38		morning rise	7142 May 12 04:23	11°♄28'10	
direct	7141 Jun 05 04:36	26°♄17'06		direct	7142 May 18 22:46	8°♄45'59	
	7141 Jun 14 10:35	0°♄		desc. node	7142 May 21 17:24	9°♄10'12	
morning max el	7141 Jun 19 08:26	4°♄17'57	27°54'44	morning max el	7142 Jun 01 17:21	16°♄45'44	27°36'42
	7141 Jul 08 12:08	0°♄			7142 Jun 12 16:19	0°♄	
morning set	7141 Jul 22 21:57	26°♄28'27			7142 Jul 01 07:10	0°♄	
	7141 Jul 24 14:55	0°♄		morning set	7142 Jul 06 16:21	10°♄17'18	
asc. node	7141 Jul 26 12:42	4°♄01'25		max. Earth dist.	7142 Jul 11 14:41	20°♄20'49	1.32958 AU
max. Earth dist.	7141 Jul 28 13:19	8°♄22'47	1.32130 AU	asc. node	7142 Jul 13 09:42	24°♄07'52	
superior conj	7141 Jul 30 09:14	12°♄21'59	0°38'47	superior conj	7142 Jul 14 15:25	26°♄46'28	0°12'40
minimum elong	7141 Jul 30 07:35	12°♄12'55	0°38'23	minimum elong	7142 Jul 14 14:47	26°♄43'08	0°12'27
evening rise	7141 Aug 06 05:06	27°♄15'51		behind sun begin	7142 Jul 14 11:23	26°♄24'54	
	7141 Aug 07 12:03	0°♄		behind sun end	7142 Jul 14 18:12	27°♄01'24	
	7141 Aug 24 15:46	0°♄			7142 Jul 16 03:24	0°♄	
desc. node	7141 Aug 30 19:28	7°♄11'49		evening rise	7142 Jul 21 16:43	11°♄57'31	
evening max el	7141 Aug 31 10:45	7°♄49'14	24°28'18		7142 Jul 30 20:42	0°♄	
retrograde	7141 Sep 14 06:10	14°♄45'37		evening max el	7142 Aug 12 22:45	18°♄05'22	22°49'43
evening set	7141 Sep 19 08:50	13°♄47'36		desc. node	7142 Aug 17 16:33	21°♄56'20	
min. Earth dist.	7141 Sep 24 21:48	10°♄57'24	0.56603 AU	retrograde	7142 Aug 26 04:28	24°♄41'58	
inferior conj	7141 Sep 27 12:13	9°♄18'41	-5°28'41	evening set	7142 Aug 29 18:46	24°♄13'39	
minimum elong	7141 Sep 27 13:02	9°♄17'24	5°28'39	min. Earth dist.	7142 Sep 06 06:47	20°♄52'24	0.55257 AU
morning rise	7141 Oct 05 19:26	5°♄15'47		inferior conj	7142 Sep 07 16:28	20°♄04'11	-5°08'44
direct	7141 Oct 08 10:47	4°♄56'55		minimum elong	7142 Sep 07 10:09	20°♄13'14	5°07'52
morning max el	7141 Oct 18 01:32	9°♄28'45	19°33'36	morning rise	7142 Sep 16 03:38	16°♄14'56	
asc. node	7141 Oct 22 12:08	14°♄35'23		direct	7142 Sep 19 05:43	15°♄52'49	
	7141 Oct 31 16:56	0°♄		morning max el	7142 Sep 30 09:46	21°♄05'39	20°51'57
morning set	7141 Nov 04 11:28	7°♄26'46			7142 Oct 07 17:15	0°♄	
superior conj	7141 Nov 12 10:16	23°♄23'55	1°31'03	asc. node	7142 Oct 09 09:09	2°♄34'28	
minimum elong	7141 Nov 12 12:43	23°♄35'58	1°30'55	morning set	7142 Oct 19 19:06	22°♄09'03	
	7141 Nov 15 20:03	0°♄			7142 Oct 23 13:34	0°♄	
max. Earth dist.	7141 Nov 18 15:51	5°♄18'02	1.37754 AU	superior conj	7142 Oct 27 04:56	7°♄32'58	1°40'11
evening rise	7141 Nov 22 09:35	12°♄03'47		minimum elong	7142 Oct 27 05:59	7°♄38'22	1°40'11
desc. node	7141 Nov 26 18:34	19°♄36'54		max. Earth dist.	7142 Nov 01 00:37	17°♄13'44	1.35771 AU
	7141 Dec 03 04:05	0°♄		evening rise	7142 Nov 05 00:47	24°♄53'18	
	7141 Dec 25 06:37	0°♄			7142 Nov 07 19:47	0°♄	
evening max el	7141 Dec 28 00:19	2°♄50'24	25°14'01	desc. node	7142 Nov 13 15:37	10°♄04'54	
retrograde	7142 Jan 09 00:28	9°♄46'31			7142 Nov 26 17:21	0°♄	
evening set	7142 Jan 14 19:07	7°♄22'51		evening max el	7142 Dec 10 13:18	16°♄35'15	26°19'17
asc. node	7142 Jan 18 11:23	3°♄25'57		retrograde	7142 Dec 23 08:07	23°♄48'02	
min. Earth dist.	7142 Jan 19 05:58	2°♄26'50	0.67527 AU	evening set	7142 Dec 29 15:34	21°♄14'29	
inferior conj	7142 Jan 20 09:56	0°♄55'58	0°38'39	min. Earth dist.	7143 Jan 02 19:44	16°♄53'26	0.66576 AU
minimum elong	7142 Jan 20 09:00	0°♄59'01	0°38'21	inferior conj	7143 Jan 04 11:10	14°♄53'12	-0°17'58
	7142 Jan 21 03:15	30°♄30		minimum elong	7143 Jan 04 11:39	14°♄51'43	0°17'41
morning rise	7142 Jan 25 23:09	25°♄00'07		asc. node	7143 Jan 05 08:27	13°♄48'45	
direct	7142 Jan 29 11:10	23°♄49'36		morning rise	7143 Jan 10 08:25	9°♄07'13	
morning max el	7142 Feb 05 14:32	27°♄47'43	19°25'30	direct	7143 Jan 13 09:40	8°♄14'33	
	7142 Feb 07 15:47	0°♄		morning max el	7143 Jan 20 01:04	11°♄50'56	18°36'42
greatest brilliancy	7142 Feb 18 14:19	14°♄58'09	-0.7m		7143 Feb 02 05:52	0°♄	
desc. node	7142 Feb 22 17:57	21°♄13'27		morning set	7143 Feb 09 21:24	12°♄01'55	
	7142 Feb 28 11:31	0°♄		desc. node	7143 Feb 09 14:57	11°♄36'26	
morning set	7142 Mar 02 04:07	2°♄36'28			7143 Feb 21 07:36	0°♄	
max. Earth dist.	7142 Mar 14 23:05	22°♄33'30	1.44772 AU	max. Earth dist.	7143 Feb 25 17:23	6°♄54'16	1.45404 AU
superior conj	7142 Mar 18 19:00	28°♄38'32	-2°05'34	superior conj	7143 Feb 26 01:22	7°♄25'31	-1°40'41
minimum elong	7142 Mar 18 13:52	28°♄18'03	2°05'21	minimum elong	7143 Feb 25 15:50	6°♄48'12	1°39'46
	7142 Mar 19 15:23	0°♄			7143 Mar 12 08:44	0°♄	
evening rise	7142 Apr 01 21:46	21°♄42'55		evening rise	7143 Mar 13 16:12	2°♄05'19	
	7142 Apr 06 20:52	0°♄		greatest brilliancy	7143 Mar 21 23:47	15°♄20'07	-0.8m
asc. node	7142 Apr 16 10:29	15°♄03'55			7143 Mar 31 21:30	0°♄	
evening max el	7142 Apr 20 21:04	20°♄28'26	18°19'02	asc. node	7143 Apr 03 07:34	2°♄55'21	
retrograde	7142 Apr 27 06:47	23°♄54'22		evening max el	7143 Apr 04 08:00	4°♄00'13	18°49'52
evening set	7142 Apr 30 07:04	23°♄05'09		retrograde	7143 Apr 11 00:55	7°♄43'54	
inferior conj	7142 May 06 04:57	17°♄40'37	3°20'01	evening set	7143 Apr 14 08:15	6°♄41'00	
minimum elong	7142 May 06 06:15	17°♄36'56	3°19'51	inferior conj	7143 Apr 19 22:35	0°♄59'37	3°26'45
min. Earth dist.	7142 May 08 15:00	14°♄55'34	0.63954 AU	minimum elong	7143 Apr 19 22:28	1°♄00'00	3°26'43

	7143 Apr 20 17:39	30° $\Upsilon$		retrograde	7144 Mar 24 22:25	21° $\Upsilon$ 47'31	
min. Earth dist.	7143 Apr 21 17:09	28° $\Upsilon$ 47'14	0.65668 AU	evening set	7144 Mar 28 13:36	20° $\Upsilon$ 30'19	
morning rise	7143 Apr 25 12:09	24° $\Upsilon$ 43'13		inferior conj	7144 Apr 02 23:27	14° $\Upsilon$ 34'06	3°19'10
direct	7143 May 02 00:16	21° $\Upsilon$ 55'16		minimum elong	7144 Apr 02 22:12	14° $\Upsilon$ 38'16	3°19'01
desc. node	7143 May 08 14:24	24° $\Upsilon$ 11'37		min. Earth dist.	7144 Apr 04 03:08	13° $\Upsilon$ 02'27	0.66964 AU
morning max el	7143 May 15 03:50	29° $\Upsilon$ 42'22	26°46'48	morning rise	7144 Apr 08 06:29	8° $\Upsilon$ 17'19	
	7143 May 15 10:46	0° $\text{♄}$		direct	7144 Apr 14 07:59	5° $\Upsilon$ 35'13	
	7143 Jun 06 14:06	0° $\text{♂}$		desc. node	7144 Apr 24 11:24	10° $\Upsilon$ 53'45	
morning set	7143 Jun 20 00:08	23° $\text{♂}$ 32'39		morning max el	7144 Apr 26 13:35	12° $\Upsilon$ 54'40	25°33'36
	7143 Jun 23 07:55	0° $\text{♄}$			7144 May 10 08:27	0° $\text{♄}$	
max. Earth dist.	7143 Jun 24 06:08	1° $\text{♄}$ 50'28	1.34262 AU		7144 May 29 07:50	0° $\text{♂}$	
				morning set	7144 Jun 01 17:08	6° $\text{♂}$ 02'45	
superior conj	7143 Jun 28 15:43	10° $\text{♄}$ 49'21	-0°16'30	max. Earth dist.	7144 Jun 05 10:21	12° $\text{♂}$ 56'24	1.36016 AU
minimum elong	7143 Jun 28 16:37	10° $\text{♄}$ 54'04	0°16'24				
asc. node	7143 Jun 30 06:45	14° $\text{♄}$ 13'20		superior conj	7144 Jun 11 07:25	24° $\text{♂}$ 23'23	-0°47'27
evening rise	7143 Jul 06 02:40	26° $\text{♄}$ 30'16		minimum elong	7144 Jun 11 10:12	24° $\text{♂}$ 37'16	0°47'00
	7143 Jul 07 19:10	0° $\text{♂}$			7144 Jun 14 02:07	0° $\text{♄}$	
evening max el	7143 Jul 25 17:14	28° $\text{♂}$ 32'38	21°16'12	asc. node	7144 Jun 16 03:47	4° $\text{♄}$ 13'45	
	7143 Jul 27 07:08	0° $\text{♄}$		evening rise	7144 Jun 19 08:46	10° $\text{♄}$ 47'33	
desc. node	7143 Aug 04 13:36	4° $\text{♄}$ 18'40			7144 Jun 29 15:08	0° $\text{♂}$	
retrograde	7143 Aug 06 18:06	4° $\text{♄}$ 30'16		evening max el	7144 Jul 07 00:12	9° $\text{♂}$ 38'04	19°58'38
evening set	7143 Aug 09 02:52	4° $\text{♄}$ 17'16		retrograde	7144 Jul 17 08:48	14° $\text{♂}$ 43'40	
inferior conj	7143 Aug 18 09:46	0° $\text{♄}$ 19'08	-3°54'55	evening set	7144 Jul 19 05:59	14° $\text{♂}$ 34'19	
minimum elong	7143 Aug 18 00:28	0° $\text{♄}$ 32'11	3°52'18	desc. node	7144 Jul 21 10:38	14° $\text{♂}$ 01'24	
min. Earth dist.	7143 Aug 18 16:05	0° $\text{♄}$ 10'15	0.54722 AU	inferior conj	7144 Jul 28 06:17	10° $\text{♂}$ 34'28	-2°03'36
	7143 Aug 18 23:23	30° $\text{♂}$		minimum elong	7144 Jul 28 00:34	10° $\text{♂}$ 43'05	2°01'32
morning rise	7143 Aug 26 22:48	26° $\text{♂}$ 25'32		min. Earth dist.	7144 Jul 30 03:45	9° $\text{♂}$ 25'51	0.55149 AU
direct	7143 Aug 30 14:12	25° $\text{♂}$ 57'00		morning rise	7144 Aug 05 17:24	6° $\text{♂}$ 16'00	
	7143 Sep 09 23:12	0° $\text{♄}$		direct	7144 Aug 10 02:36	5° $\text{♂}$ 33'57	
morning max el	7143 Sep 12 06:22	1° $\text{♄}$ 57'31	22°28'42	morning max el	7144 Aug 23 20:08	12° $\text{♂}$ 19'49	24°13'53
asc. node	7143 Sep 26 06:09	21° $\text{♄}$ 14'49			7144 Sep 06 07:50	0° $\text{♄}$	
	7143 Sep 30 20:23	0° $\text{♄}$		asc. node	7144 Sep 12 03:09	10° $\text{♄}$ 26'19	
morning set	7143 Oct 04 05:40	6° $\text{♄}$ 58'26		morning set	7144 Sep 17 17:24	21° $\text{♄}$ 49'48	
					7144 Sep 21 12:14	0° $\text{♄}$	
superior conj	7143 Oct 11 07:35	22° $\text{♄}$ 04'33	1°41'59	superior conj	7144 Sep 24 15:26	6° $\text{♄}$ 50'13	1°37'25
minimum elong	7143 Oct 11 07:17	22° $\text{♄}$ 03'01	1°42'00	minimum elong	7144 Sep 24 14:05	6° $\text{♄}$ 42'52	1°37'21
max. Earth dist.	7143 Oct 14 16:35	29° $\text{♄}$ 08'58	1.34120 AU	max. Earth dist.	7144 Sep 26 17:02	11° $\text{♄}$ 18'24	1.32890 AU
	7143 Oct 15 02:30	0° $\text{♂}$		evening rise	7144 Oct 02 00:35	22° $\text{♄}$ 25'38	
evening rise	7143 Oct 19 07:02	8° $\text{♄}$ 23'49			7144 Oct 05 20:48	0° $\text{♄}$	
	7143 Oct 31 08:31	0° $\text{♄}$		desc. node	7144 Oct 17 09:42	20° $\text{♄}$ 05'44	
desc. node	7143 Oct 31 12:40	0° $\text{♄}$ 16'52			7144 Oct 24 03:11	0° $\text{♄}$	
	7143 Nov 22 21:50	0° $\text{♄}$		evening max el	7144 Nov 04 13:52	13° $\text{♄}$ 25'48	27°27'44
evening max el	7143 Nov 23 02:10	0° $\text{♄}$ 10'25	27°06'09	retrograde	7144 Nov 18 05:54	20° $\text{♄}$ 44'04	
retrograde	7143 Dec 06 10:09	7° $\text{♄}$ 29'59		evening set	7144 Nov 25 07:27	18° $\text{♄}$ 10'20	
evening set	7143 Dec 13 04:33	4° $\text{♄}$ 52'12		min. Earth dist.	7144 Nov 29 00:55	14° $\text{♄}$ 55'42	0.63638 AU
min. Earth dist.	7143 Dec 17 02:41	1° $\text{♄}$ 05'40	0.65271 AU	inferior conj	7144 Dec 01 15:31	12° $\text{♄}$ 16'48	-2°27'04
	7143 Dec 18 02:14	30° $\text{♄}$		minimum elong	7144 Dec 01 20:01	12° $\text{♄}$ 05'19	2°25'15
inferior conj	7143 Dec 19 05:52	28° $\text{♄}$ 41'56	-1°20'31	morning rise	7144 Dec 08 10:20	6° $\text{♄}$ 58'33	
minimum elong	7143 Dec 19 08:14	28° $\text{♄}$ 35'16	1°19'26	asc. node	7144 Dec 09 02:32	6° $\text{♄}$ 44'58	
asc. node	7143 Dec 23 05:31	24° $\text{♄}$ 39'43		direct	7144 Dec 10 20:17	6° $\text{♄}$ 30'05	
morning rise	7143 Dec 25 13:09	23° $\text{♄}$ 08'24		morning max el	7144 Dec 17 09:36	9° $\text{♄}$ 54'21	17°49'22
direct	7143 Dec 28 05:34	22° $\text{♄}$ 29'49			7144 Dec 30 22:12	0° $\text{♄}$	
morning max el	7144 Jan 03 16:23	25° $\text{♄}$ 55'28	18°04'26	morning set	7145 Jan 02 21:41	5° $\text{♄}$ 07'46	
	7144 Jan 07 04:19	0° $\text{♄}$		desc. node	7145 Jan 13 08:56	22° $\text{♄}$ 52'37	
morning set	7144 Jan 21 20:04	22° $\text{♄}$ 55'25					
	7144 Jan 26 03:47	0° $\text{♄}$		superior conj	7145 Jan 15 10:00	26° $\text{♄}$ 14'37	-0°14'39
desc. node	7144 Jan 27 11:55	2° $\text{♄}$ 10'42		minimum elong	7145 Jan 15 08:24	26° $\text{♄}$ 08'04	0°14'21
				behind sun begin	7145 Jan 15 03:57	25° $\text{♄}$ 49'53	
superior conj	7144 Feb 05 08:23	16° $\text{♄}$ 21'36	-1°00'11	behind sun end	7145 Jan 15 12:50	26° $\text{♄}$ 26'14	
minimum elong	7144 Feb 05 01:15	15° $\text{♄}$ 53'25	0°59'12		7145 Jan 17 17:21	0° $\text{♄}$	
max. Earth dist.	7144 Feb 08 12:48	21° $\text{♄}$ 22'43	1.45293 AU	max. Earth dist.	7145 Jan 21 06:54	5° $\text{♄}$ 43'26	1.44470 AU
	7144 Feb 14 01:10	0° $\text{♄}$		evening rise	7145 Jan 31 00:38	20° $\text{♄}$ 56'40	
evening rise	7144 Feb 21 13:38	11° $\text{♄}$ 39'59			7145 Feb 05 23:20	0° $\text{♄}$	
	7144 Mar 04 12:33	0° $\text{♄}$			7145 Feb 27 12:53	0° $\text{♄}$	
greatest brilliancy	7144 Mar 05 19:36	1° $\text{♄}$ 56'19	-0.7m	evening max el	7145 Feb 28 16:09	1° $\text{♄}$ 12'10	20°39'32
evening max el	7144 Mar 17 14:43	17° $\text{♄}$ 35'21	19°37'27	asc. node	7145 Mar 07 01:42	5° $\text{♄}$ 43'55	
asc. node	7144 Mar 20 04:39	19° $\text{♄}$ 53'26					



retrograde	7145 Mar 08 20:50	6° $\Upsilon$ 00'44		evening rise	7146 Jan 10 16:44	0° $\approx$ 33'37	
evening set	7145 Mar 12 21:05	4° $\Upsilon$ 28'39			7146 Jan 30 13:27	0° $\text{H}$	
	7145 Mar 16 23:24	30° $\text{R}$ $\text{H}$		evening max el	7146 Feb 11 12:17	14° $\text{H}$ 50'43	21°52'34
inferior conj	7145 Mar 18 04:56	28° $\text{H}$ 19'45	3°00'02	retrograde	7146 Feb 20 18:15	20° $\text{H}$ 19'44	
minimum elong	7145 Mar 18 02:56	28° $\text{H}$ 26'37	2°59'38	asc. node	7146 Feb 21 22:44	20° $\text{H}$ 12'25	
min. Earth dist.	7145 Mar 18 18:53	27° $\text{H}$ 31'51	0.67824 AU	evening set	7146 Feb 25 05:00	18° $\text{H}$ 32'20	
morning rise	7145 Mar 23 08:33	22° $\text{H}$ 04'55		inferior conj	7146 Mar 02 12:50	12° $\text{H}$ 13'29	2°31'09
direct	7145 Mar 28 20:57	19° $\text{H}$ 37'38		minimum elong	7146 Mar 02 10:32	12° $\text{H}$ 21'29	2°30'32
morning max el	7145 Apr 08 22:20	26° $\text{H}$ 14'26	24°07'11	min. Earth dist.	7146 Mar 02 14:13	12° $\text{H}$ 08'42	0.68253 AU
desc. node	7145 Apr 11 08:23	28° $\text{H}$ 49'09		morning rise	7146 Mar 07 15:54	6° $\text{H}$ 02'06	
	7145 Apr 12 09:20	0° $\Upsilon$		direct	7146 Mar 12 14:05	3° $\text{H}$ 55'20	
	7145 May 03 22:07	0° $\text{B}$		morning max el	7146 Mar 22 08:31	9° $\text{H}$ 41'08	22°37'41
morning set	7145 May 14 14:01	17° $\text{B}$ 32'52		desc. node	7146 Mar 29 05:23	17° $\text{H}$ 37'26	
max. Earth dist.	7145 May 18 06:51	24° $\text{B}$ 03'19	1.38121 AU		7146 Apr 07 07:18	0° $\Upsilon$	
	7145 May 21 13:23	0° $\text{II}$		morning set	7146 Apr 25 09:09	27° $\Upsilon$ 48'52	
					7146 Apr 26 16:56	0° $\text{B}$	
superior conj	7145 May 25 11:07	7° $\text{II}$ 19'44	-1°18'10	max. Earth dist.	7146 Apr 30 03:30	5° $\text{B}$ 46'51	1.40354 AU
minimum elong	7145 May 25 15:43	7° $\text{II}$ 41'42	1°17'31				
evening rise	7145 Jun 03 08:24	24° $\text{II}$ 42'04		superior conj	7146 May 07 22:32	19° $\text{B}$ 28'10	-1°45'32
asc. node	7145 Jun 03 00:49	24° $\text{II}$ 04'42		minimum elong	7146 May 08 04:05	19° $\text{B}$ 53'14	1°45'00
	7145 Jun 06 01:29	0° $\text{B}$			7146 May 13 15:29	0° $\text{II}$	
evening max el	7145 Jun 19 19:45	21° $\text{B}$ 27'29	19°01'07	evening rise	7146 May 17 22:24	8° $\text{II}$ 05'44	
retrograde	7145 Jun 28 12:39	25° $\text{B}$ 44'44		asc. node	7146 May 20 21:51	13° $\text{II}$ 41'45	
evening set	7145 Jun 30 11:55	25° $\text{B}$ 32'28			7146 May 30 16:21	0° $\text{B}$	
desc. node	7145 Jul 08 07:40	21° $\text{B}$ 37'08		evening max el	7146 Jun 03 00:47	3° $\text{B}$ 55'00	18°24'12
inferior conj	7145 Jul 08 18:41	21° $\text{B}$ 18'05	-0°08'17	retrograde	7146 Jun 10 11:49	7° $\text{B}$ 38'09	
minimum elong	7145 Jul 08 18:20	21° $\text{B}$ 18'41	0°08'14	evening set	7146 Jun 12 17:50	7° $\text{B}$ 18'45	
transit middle	7145 Jul 08 18:20	21° $\text{B}$ 18'41	0°08'14	inferior conj	7146 Jun 20 04:38	2° $\text{B}$ 44'10	1°25'30
transit begin	7145 Jul 08 15:06	21° $\text{B}$ 24'18		minimum elong	7146 Jun 20 07:20	2° $\text{B}$ 38'39	1°24'31
transit end	7145 Jul 08 21:35	21° $\text{B}$ 13'04		min. Earth dist.	7146 Jun 23 14:16	29° $\text{II}$ 59'20	0.58403 AU
min. Earth dist.	7145 Jul 11 18:34	19° $\text{B}$ 14'07	0.56468 AU		7146 Jun 23 13:55	30° $\text{R}$ $\text{II}$	
morning rise	7145 Jul 16 21:32	16° $\text{B}$ 23'53		desc. node	7146 Jun 25 04:42	28° $\text{II}$ 48'44	
direct	7145 Jul 22 03:54	15° $\text{B}$ 18'34		morning rise	7146 Jun 27 17:36	27° $\text{II}$ 15'39	
morning max el	7145 Aug 05 09:41	22° $\text{B}$ 38'33	25°52'11	direct	7146 Jul 03 19:04	25° $\text{II}$ 39'28	
	7145 Aug 11 22:54	0° $\text{Q}$			7146 Jul 14 08:07	0° $\text{B}$	
asc. node	7145 Aug 30 00:08	0° $\text{P}$ 00'02		morning max el	7146 Jul 18 04:23	3° $\text{B}$ 22'16	27°07'30
	7145 Aug 30 00:08	0° $\text{P}$			7146 Aug 06 12:46	0° $\text{Q}$	
morning set	7145 Sep 02 04:36	6° $\text{P}$ 37'17		asc. node	7146 Aug 16 21:09	19° $\text{Q}$ 49'46	
				morning set	7146 Aug 17 13:40	21° $\text{Q}$ 16'24	
superior conj	7145 Sep 09 02:12	21° $\text{P}$ 41'40	1°27'14		7146 Aug 21 14:50	0° $\text{P}$	
minimum elong	7145 Sep 09 00:11	21° $\text{P}$ 30'29	1°27'00				
max. Earth dist.	7145 Sep 10 00:05	23° $\text{P}$ 42'18	1.32109 AU	superior conj	7146 Aug 24 14:02	6° $\text{P}$ 33'13	1°11'59
	7145 Sep 12 21:16	0° $\text{A}$		minimum elong	7146 Aug 24 11:46	6° $\text{P}$ 20'39	1°11'36
evening rise	7145 Sep 16 02:12	6° $\text{A}$ 48'37		max. Earth dist.	7146 Aug 24 10:35	6° $\text{P}$ 14'08	1.31771 AU
	7145 Sep 28 08:57	0° $\text{M}$		evening rise	7146 Aug 31 09:18	21° $\text{P}$ 25'20	
desc. node	7145 Oct 04 06:44	9° $\text{M}$ 21'02			7146 Sep 04 13:16	0° $\text{A}$	
evening max el	7145 Oct 17 22:06	26° $\text{M}$ 07'08	27°18'15	desc. node	7146 Sep 21 03:47	27° $\text{A}$ 49'25	
	7145 Oct 22 15:44	0° $\text{J}$			7146 Sep 22 19:31	0° $\text{M}$	
retrograde	7145 Oct 31 18:12	3° $\text{J}$ 19'50		evening max el	7146 Sep 30 00:02	8° $\text{M}$ 02'23	26°34'53
evening set	7145 Nov 07 20:46	1° $\text{J}$ 00'35		retrograde	7146 Oct 13 21:56	15° $\text{M}$ 09'30	
	7145 Nov 09 07:29	30° $\text{R}$ $\text{M}$		evening set	7146 Oct 20 16:05	13° $\text{M}$ 15'40	
min. Earth dist.	7145 Nov 11 12:43	28° $\text{M}$ 11'36	0.61731 AU	min. Earth dist.	7146 Oct 24 13:39	10° $\text{M}$ 40'29	0.59665 AU
inferior conj	7145 Nov 14 12:59	25° $\text{M}$ 28'57	-3°34'11	inferior conj	7146 Oct 27 18:49	8° $\text{M}$ 09'01	-4°35'13
minimum elong	7145 Nov 14 19:22	25° $\text{M}$ 14'33	3°32'04	minimum elong	7146 Oct 28 01:39	7° $\text{M}$ 55'33	4°33'35
morning rise	7145 Nov 21 20:02	20° $\text{M}$ 29'22		morning rise	7146 Nov 04 13:25	3° $\text{M}$ 31'23	
direct	7145 Nov 24 02:28	20° $\text{M}$ 07'22		direct	7146 Nov 06 19:56	3° $\text{M}$ 12'43	
asc. node	7145 Nov 25 23:32	20° $\text{M}$ 22'58		asc. node	7146 Nov 12 20:32	5° $\text{M}$ 31'55	
morning max el	7145 Dec 01 01:30	23° $\text{M}$ 38'33	17°52'27	morning max el	7146 Nov 14 12:44	6° $\text{M}$ 59'24	18°14'59
	7145 Dec 06 03:07	0° $\text{J}$			7146 Nov 29 04:53	0° $\text{J}$	
morning set	7145 Dec 16 19:41	18° $\text{J}$ 18'06		morning set	7146 Nov 30 08:05	2° $\text{J}$ 08'35	
	7145 Dec 23 08:03	0° $\text{B}$					
superior conj	7145 Dec 27 13:25	7° $\text{B}$ 22'17	0°26'39	superior conj	7146 Dec 09 16:56	19° $\text{J}$ 39'16	0°59'12
minimum elong	7145 Dec 27 15:43	7° $\text{B}$ 32'11	0°26'23	minimum elong	7146 Dec 09 20:31	19° $\text{J}$ 55'32	0°58'47
desc. node	7145 Dec 31 05:55	13° $\text{B}$ 38'08			7146 Dec 15 13:06	0° $\text{B}$	
max. Earth dist.	7146 Jan 03 21:41	19° $\text{B}$ 41'23	1.43021 AU	max. Earth dist.	7146 Dec 17 07:48	3° $\text{B}$ 02'54	1.41111 AU
	7146 Jan 10 08:10	0° $\approx$		desc. node	7146 Dec 18 02:55	4° $\text{B}$ 23'50	
				evening rise	7146 Dec 22 02:14	10° $\text{B}$ 59'12	

	7147 Jan 03 07:47	0°♊			7147 Dec 28 05:59	0°♊	
evening max el	7147 Jan 25 04:07	28°♊31'37	23°11'42	evening max el	7148 Jan 07 17:32	12°♊15'58	24°30'58
	7147 Jan 26 16:54	0°♋		retrograde	7148 Jan 19 04:42	18°♊58'23	
retrograde	7147 Feb 04 13:14	4°♋40'24		evening set	7148 Jan 24 15:51	16°♊41'40	
asc. node	7147 Feb 08 19:46	3°♋09'09		asc. node	7148 Jan 26 16:49	14°♊39'31	
evening set	7147 Feb 09 11:45	2°♋37'46		min. Earth dist.	7148 Jan 29 06:46	11°♊25'51	0.67905 AU
	7147 Feb 12 00:28	30°♋		inferior conj	7148 Jan 30 04:22	10°♊13'40	1°08'11
inferior conj	7147 Feb 14 21:15	26°♊12'14	1°53'36	minimum elong	7148 Jan 30 02:50	10°♊18'47	1°07'39
minimum elong	7147 Feb 14 19:05	26°♊19'40	1°52'55	morning rise	7148 Feb 04 13:59	4°♊13'22	
min. Earth dist.	7147 Feb 14 10:53	26°♊47'57	0.68274 AU	direct	7148 Feb 08 08:48	2°♊51'24	
morning rise	7147 Feb 20 02:22	20°♊05'41		morning max el	7148 Feb 15 22:43	7°♊07'47	20°00'46
direct	7147 Feb 24 10:25	18°♊21'37		desc. node	7148 Mar 01 23:21	26°♊57'55	
morning max el	7147 Mar 04 23:50	23°♊18'12	21°13'32		7148 Mar 04 00:20	0°♋	
	7147 Mar 10 19:28	0°♋		morning set	7148 Mar 13 22:24	15°♋04'49	
desc. node	7147 Mar 16 02:21	7°♋03'42			7148 Mar 23 11:22	0°♌	
	7147 Mar 31 15:39	0°♌		max. Earth dist.	7148 Mar 24 15:29	1°♌51'54	1.44087 AU
morning set	7147 Apr 05 00:33	6°♌48'15					
max. Earth dist.	7147 Apr 12 05:59	18°♌24'15	1.42430 AU	superior conj	7148 Mar 30 02:24	10°♌39'55	-2°10'43
	7147 Apr 19 04:13	0°♍		minimum elong	7148 Mar 30 01:18	10°♌35'25	2°10'44
					7148 Apr 10 15:32	0°♍	
superior conj	7147 Apr 19 12:49	0°♍36'47	-2°05'00	evening rise	7148 Apr 12 04:57	2°♍40'26	
minimum elong	7147 Apr 19 16:53	0°♍54'13	2°04'51	asc. node	7148 Apr 23 15:57	21°♍49'37	
evening rise	7147 Apr 30 22:45	20°♍48'14			7148 Apr 29 22:20	0°♎	
	7147 May 06 01:51	0°♎		evening max el	7148 Apr 30 00:35	0°♎05'38	18°09'22
asc. node	7147 May 07 18:54	2°♎58'49		retrograde	7148 May 06 10:19	3°♎27'25	
evening max el	7147 May 17 11:31	16°♎50'24	18°07'11	evening set	7148 May 09 06:32	2°♎45'55	
retrograde	7147 May 24 04:30	20°♎15'28			7148 May 13 00:36	30°♋♌	
evening set	7147 May 26 17:46	19°♎46'00		inferior conj	7148 May 15 10:23	27°♋31'54	3°08'06
inferior conj	7147 Jun 02 11:06	14°♎51'01	2°30'06	minimum elong	7148 May 15 12:30	27°♋26'14	3°07'43
minimum elong	7147 Jun 02 14:13	14°♎43'37	2°29'16	min. Earth dist.	7148 May 18 04:58	24°♋34'05	0.62803 AU
min. Earth dist.	7147 Jun 05 17:10	11°♎47'45	0.60616 AU	morning rise	7148 May 21 16:55	21°♋23'50	
morning rise	7147 Jun 09 08:13	8°♎57'27		direct	7148 May 28 12:02	18°♋50'25	
desc. node	7147 Jun 12 01:45	7°♎33'08		desc. node	7148 May 28 22:47	18°♋51'03	
direct	7147 Jun 15 22:27	6°♎49'16		morning max el	7148 Jun 11 12:52	26°♋53'02	27°51'24
morning max el	7147 Jun 30 05:55	14°♎46'30	27°48'34		7148 Jun 14 11:06	0°♎	
	7147 Jul 12 13:16	0°♏			7148 Jul 05 04:57	0°♏	
	7147 Jul 29 23:37	0°♐		morning set	7148 Jul 15 17:53	19°♏45'20	
morning set	7147 Aug 01 18:49	5°♐41'13		asc. node	7148 Jul 20 15:12	29°♏54'40	
asc. node	7147 Aug 03 18:10	9°♐49'29			7148 Jul 20 16:12	0°♑	
max. Earth dist.	7147 Aug 07 20:34	18°♐41'38	1.31867 AU	max. Earth dist.	7148 Jul 21 02:01	0°♑52'24	1.32416 AU
superior conj	7147 Aug 09 01:06	21°♑18'39	0°52'08	superior conj	7148 Jul 23 09:39	5°♑52'24	0°28'08
minimum elong	7147 Aug 08 23:05	21°♑07'28	0°51'42	minimum elong	7148 Jul 23 08:22	5°♑45'27	0°27'47
	7147 Aug 12 23:41	0°♒		evening rise	7148 Jul 30 07:21	20°♑52'09	
evening rise	7147 Aug 15 19:40	6°♒08'32			7148 Aug 03 17:05	0°♒	
	7147 Aug 28 06:07	0°♓		evening max el	7148 Aug 23 06:04	29°♒32'32	23°46'46
desc. node	7147 Sep 08 00:51	15°♓12'15			7148 Aug 23 17:37	0°♓	
evening max el	7147 Sep 11 17:54	19°♓06'53	25°20'51	desc. node	7148 Aug 24 21:55	1°♓03'39	
retrograde	7147 Sep 25 15:46	26°♓09'16		retrograde	7148 Sep 05 21:48	6°♓23'25	
evening set	7147 Oct 01 12:42	24°♓49'52		evening set	7148 Sep 10 09:01	5°♓39'37	
min. Earth dist.	7147 Oct 06 05:37	22°♓10'42	0.57634 AU	min. Earth dist.	7148 Sep 16 16:21	2°♓37'45	0.55938 AU
inferior conj	7147 Oct 09 05:45	20°♓07'42	-5°18'27	inferior conj	7148 Sep 18 20:25	1°♓19'13	-5°26'45
minimum elong	7147 Oct 09 09:55	20°♓00'34	5°17'59	minimum elong	7148 Sep 18 18:10	1°♓22'38	5°26'39
morning rise	7147 Oct 17 09:26	15°♓53'19			7148 Sep 21 02:03	30°♋♒	
direct	7147 Oct 19 20:12	15°♓35'22		morning rise	7148 Sep 27 05:38	27°♒23'46	
morning max el	7147 Oct 28 15:49	19°♓47'25	18°58'36	direct	7148 Sep 30 00:55	27°♒04'00	
asc. node	7147 Oct 30 17:34	21°♓59'14			7148 Oct 08 01:46	0°♓	
	7147 Nov 05 09:20	0°♔		morning max el	7148 Oct 10 07:31	1°♓52'31	20°04'22
morning set	7147 Nov 14 06:27	16°♔26'27		asc. node	7148 Oct 16 14:36	9°♓29'06	
	7147 Nov 21 03:56	0°♕			7148 Oct 27 23:16	0°♔	
				morning set	7148 Oct 28 11:27	1°♔01'51	
superior conj	7147 Nov 22 15:31	2°♕51'16	1°22'03	superior conj	7148 Nov 05 04:05	16°♔43'04	1°35'52
minimum elong	7147 Nov 22 18:39	3°♕06'11	1°21'47	minimum elong	7148 Nov 05 05:57	16°♔52'27	1°35'48
max. Earth dist.	7147 Nov 29 13:42	15°♕40'35	1.38975 AU	max. Earth dist.	7148 Nov 10 19:32	27°♔44'07	1.36875 AU
evening rise	7147 Dec 03 09:59	22°♕24'41			7148 Nov 12 00:26	0°♖	
desc. node	7147 Dec 04 23:57	25°♕06'17			7148 Nov 14 14:45	4°♖46'29	
	7147 Dec 07 22:36	0°♗		evening rise			

desc. node	7148 Nov 20 20:59	15° $\text{♄}$ 40'56		superior conj	7149 Oct 20 02:32	1° $\text{♄}$ 02'56	1°41'45
	7148 Nov 29 21:18	0° $\text{♄}$		minimum elong	7149 Oct 20 02:59	1° $\text{♄}$ 05'20	1°41'48
evening max el	7148 Dec 20 06:26	26° $\text{♄}$ 02'09	25°43'32	max. Earth dist.	7149 Oct 24 07:03	9° $\text{♄}$ 37'30	1.35025 AU
	7148 Dec 24 21:13	0° $\text{♄}$		evening rise	7149 Oct 28 12:55	17° $\text{♄}$ 55'17	
retrograde	7149 Jan 01 15:32	3° $\text{♄}$ 07'25			7149 Nov 04 04:17	0° $\text{♄}$	
evening set	7149 Jan 07 15:37	0° $\text{♄}$ 39'05		desc. node	7149 Nov 07 18:01	6° $\text{♄}$ 03'02	
	7149 Jan 08 09:14	30° $\text{♄}$			7149 Nov 24 03:22	0° $\text{♄}$	
min. Earth dist.	7149 Jan 11 23:31	25° $\text{♄}$ 57'43	0.67165 AU	evening max el	7149 Dec 02 19:40	9° $\text{♄}$ 44'54	26°41'53
asc. node	7149 Jan 12 13:54	25° $\text{♄}$ 12'17		retrograde	7149 Dec 15 20:52	17° $\text{♄}$ 01'18	
inferior conj	7149 Jan 13 08:20	24° $\text{♄}$ 13'37	0°15'27	evening set	7149 Dec 22 09:09	14° $\text{♄}$ 25'29	
minimum elong	7149 Jan 13 07:56	24° $\text{♄}$ 14'53	0°15'22	min. Earth dist.	7149 Dec 26 10:47	10° $\text{♄}$ 18'55	0.66069 AU
transit middle	7149 Jan 13 07:56	24° $\text{♄}$ 14'53	0°15'22	inferior conj	7149 Dec 28 07:05	8° $\text{♄}$ 08'07	-0°43'49
transit begin	7149 Jan 13 07:04	24° $\text{♄}$ 17'37		minimum elong	7149 Dec 28 08:19	8° $\text{♄}$ 04'29	0°43'13
transit end	7149 Jan 13 08:47	24° $\text{♄}$ 12'09		asc. node	7149 Dec 30 10:57	5° $\text{♄}$ 40'19	
morning rise	7149 Jan 19 00:42	18° $\text{♄}$ 21'31		morning rise	7150 Jan 03 08:22	2° $\text{♄}$ 26'46	
direct	7149 Jan 22 07:49	17° $\text{♄}$ 19'08		direct	7150 Jan 06 05:37	1° $\text{♄}$ 40'28	
morning max el	7149 Jan 29 05:20	21° $\text{♄}$ 06'57	19°02'40	morning max el	7150 Jan 12 18:08	5° $\text{♄}$ 11'06	18°20'46
	7149 Feb 05 09:35	0° $\text{♄}$			7150 Jan 29 22:29	0° $\text{♄}$	
greatest brilliancy	7149 Feb 12 06:07	10° $\text{♄}$ 08'12	-0.8m	morning set	7150 Feb 01 07:42	3° $\text{♄}$ 49'26	
desc. node	7149 Feb 16 20:20	17° $\text{♄}$ 11'51		desc. node	7150 Feb 03 17:18	7° $\text{♄}$ 39'59	
morning set	7149 Feb 21 02:13	23° $\text{♄}$ 46'59					
	7149 Feb 25 02:07	0° $\text{♄}$		superior conj	7150 Feb 16 21:08	28° $\text{♄}$ 29'25	-1°24'49
max. Earth dist.	7149 Mar 07 06:52	15° $\text{♄}$ 56'32	1.45130 AU	minimum elong	7150 Feb 16 11:51	27° $\text{♄}$ 53'01	1°23'46
					7150 Feb 17 20:15	0° $\text{♄}$	
superior conj	7149 Mar 09 17:05	19° $\text{♄}$ 45'46	-1°57'24	max. Earth dist.	7150 Feb 18 02:01	0° $\text{♄}$ 22'35	1.45457 AU
minimum elong	7149 Mar 09 09:23	19° $\text{♄}$ 15'23	1°56'53	evening rise	7150 Mar 04 21:28	23° $\text{♄}$ 34'01	
	7149 Mar 16 03:36	0° $\text{♄}$			7150 Mar 08 23:47	0° $\text{♄}$	
evening rise	7149 Mar 24 12:49	13° $\text{♄}$ 34'52		greatest brilliancy	7150 Mar 15 12:10	10° $\text{♄}$ 09'33	-0.8m
	7149 Apr 03 15:18	0° $\text{♄}$		evening max el	7150 Mar 27 22:28	27° $\text{♄}$ 07'06	19°08'15
asc. node	7149 Apr 10 13:01	10° $\text{♄}$ 05'42		asc. node	7150 Mar 28 10:05	27° $\text{♄}$ 35'52	
evening max el	7149 Apr 13 13:04	13° $\text{♄}$ 33'23	18°30'04		7150 Mar 31 11:32	0° $\text{♄}$	
retrograde	7149 Apr 20 00:54	17° $\text{♄}$ 05'20		retrograde	7150 Apr 03 20:40	1° $\text{♄}$ 01'15	
evening set	7149 Apr 23 04:06	16° $\text{♄}$ 10'27		evening set	7150 Apr 07 07:18	29° $\text{♄}$ 52'14	
inferior conj	7149 Apr 28 22:23	10° $\text{♄}$ 38'51	3°24'50		7150 Apr 07 02:29	30° $\text{♄}$	
minimum elong	7149 Apr 28 23:03	10° $\text{♄}$ 36'52	3°24'44	inferior conj	7150 Apr 12 19:24	24° $\text{♄}$ 04'26	3°25'05
min. Earth dist.	7149 May 01 02:00	8° $\text{♄}$ 05'58	0.64733 AU	minimum elong	7150 Apr 12 18:45	24° $\text{♄}$ 06'31	3°25'00
morning rise	7149 May 04 17:12	4° $\text{♄}$ 24'11		min. Earth dist.	7150 Apr 14 07:31	22° $\text{♄}$ 08'49	0.66278 AU
direct	7149 May 11 09:43	1° $\text{♄}$ 37'37		morning rise	7150 Apr 18 05:49	17° $\text{♄}$ 47'49	
desc. node	7149 May 15 19:48	2° $\text{♄}$ 39'16		direct	7150 Apr 24 13:58	15° $\text{♄}$ 01'01	
morning max el	7149 May 24 22:37	9° $\text{♄}$ 34'04	27°18'51	desc. node	7150 May 02 16:47	18° $\text{♄}$ 26'59	
	7149 Jun 09 22:20	0° $\text{♄}$		morning max el	7150 May 07 08:42	22° $\text{♄}$ 37'32	26°17'54
	7149 Jun 27 14:28	0° $\text{♄}$			7150 May 13 20:26	0° $\text{♄}$	
morning set	7149 Jun 29 08:14	3° $\text{♄}$ 21'21			7150 Jun 03 05:19	0° $\text{♄}$	
max. Earth dist.	7149 Jul 03 23:14	12° $\text{♄}$ 37'31	1.33446 AU	morning set	7150 Jun 12 10:12	16° $\text{♄}$ 18'15	
				max. Earth dist.	7150 Jun 16 09:42	23° $\text{♄}$ 54'42	1.34957 AU
					7150 Jun 19 11:20	0° $\text{♄}$	
superior conj	7149 Jul 07 13:39	20° $\text{♄}$ 08'55	0°00'37				
minimum elong	7149 Jul 07 13:37	20° $\text{♄}$ 08'44	0°00'31	superior conj	7150 Jun 21 10:38	4° $\text{♄}$ 00'14	-0°29'31
behind sun begin	7149 Jul 07 08:07	19° $\text{♄}$ 39'33		minimum elong	7150 Jun 21 12:18	4° $\text{♄}$ 08'47	0°29'15
behind sun end	7149 Jul 07 19:08	20° $\text{♄}$ 37'57		asc. node	7150 Jun 24 09:15	10° $\text{♄}$ 04'57	
asc. node	7149 Jul 07 12:14	20° $\text{♄}$ 01'22		evening rise	7150 Jun 29 03:03	19° $\text{♄}$ 57'30	
	7149 Jul 12 04:20	0° $\text{♄}$			7150 Jul 04 03:04	0° $\text{♄}$	
evening rise	7149 Jul 14 18:30	5° $\text{♄}$ 30'48		evening max el	7150 Jul 17 19:27	20° $\text{♄}$ 31'17	20°40'55
	7149 Jul 27 22:52	0° $\text{♄}$		retrograde	7150 Jul 29 03:30	26° $\text{♄}$ 06'54	
evening max el	7149 Aug 04 19:59	9° $\text{♄}$ 50'07	22°08'40	desc. node	7150 Jul 29 16:03	26° $\text{♄}$ 06'13	
desc. node	7149 Aug 11 18:59	14° $\text{♄}$ 51'52		evening set	7150 Jul 31 05:26	25° $\text{♄}$ 56'23	
retrograde	7149 Aug 17 15:32	16° $\text{♄}$ 12'06		inferior conj	7150 Aug 09 11:23	21° $\text{♄}$ 59'27	-3°10'24
evening set	7149 Aug 20 15:15	15° $\text{♄}$ 52'19		minimum elong	7150 Aug 09 02:59	22° $\text{♄}$ 11'27	3°07'39
min. Earth dist.	7149 Aug 29 01:28	12° $\text{♄}$ 13'34	0.54911 AU	min. Earth dist.	7150 Aug 10 11:16	21° $\text{♄}$ 25'16	0.54788 AU
inferior conj	7149 Aug 29 18:40	11° $\text{♄}$ 49'23	-4°43'48	morning rise	7150 Aug 18 00:17	17° $\text{♄}$ 57'49	
minimum elong	7149 Aug 29 10:14	12° $\text{♄}$ 01'14	4°42'04	direct	7150 Aug 21 22:59	17° $\text{♄}$ 24'28	
morning rise	7149 Sep 07 06:48	8° $\text{♄}$ 00'30		morning max el	7150 Sep 04 03:06	23° $\text{♄}$ 44'34	23°13'15
direct	7149 Sep 10 14:13	7° $\text{♄}$ 36'05			7150 Sep 09 18:29	0° $\text{♄}$	
morning max el	7149 Sep 22 10:27	13° $\text{♄}$ 09'31	21°31'13		7150 Sep 20 08:37	16° $\text{♄}$ 41'39	
asc. node	7149 Oct 03 11:38	27° $\text{♄}$ 47'22		asc. node	7150 Sep 27 07:51	0° $\text{♄}$ 38'20	
	7149 Oct 04 18:18	0° $\text{♄}$		morning set	7150 Sep 27 00:35	0° $\text{♄}$	
morning set	7149 Oct 12 20:35	15° $\text{♄}$ 47'59					
	7149 Oct 19 14:28	0° $\text{♄}$					

superior conj	7150 Oct 04 07:39	15°♄40'38	1°40'46		7151 Sep 04 01:36	0°♄	
minimum elong	7150 Oct 04 06:52	15°♄36'27	1°40'46	asc. node	7151 Sep 07 05:37	6°♄03'04	
max. Earth dist.	7150 Oct 07 02:54	21°♄38'25	1.33547 AU	morning set	7151 Sep 11 19:32	15°♄28'13	
	7150 Oct 11 04:24	0°♄			7151 Sep 18 11:41	0°♄	
evening rise	7150 Oct 12 00:22	1°♄39'40					
desc. node	7150 Oct 25 15:05	26°♄06'03		superior conj	7151 Sep 18 16:57	0°♄28'54	1°33'45
	7150 Oct 28 02:33	0°♄		minimum elong	7151 Sep 18 15:16	0°♄19'39	1°33'37
evening max el	7150 Nov 15 08:24	23°♄13'28	27°18'49	max. Earth dist.	7151 Sep 20 06:33	3°♄54'08	1.32501 AU
	7150 Nov 25 12:04	0°♄		evening rise	7151 Sep 25 21:39	15°♄50'35	
retrograde	7150 Nov 28 20:03	0°♄32'19			7151 Oct 03 04:24	0°♄	
	7150 Dec 02 00:16	30°♄♂		desc. node	7151 Oct 12 12:09	15°♄41'43	
evening set	7150 Dec 05 18:11	27°♄55'17			7151 Oct 22 22:59	0°♄	
min. Earth dist.	7150 Dec 09 14:13	24°♄22'49	0.64620 AU	evening max el	7151 Oct 28 18:47	6°♄14'52	27°27'43
inferior conj	7150 Dec 11 22:17	21°♄51'45	-1°48'21	retrograde	7151 Nov 11 12:38	13°♄31'03	
minimum elong	7150 Dec 12 01:32	21°♄42'56	1°46'57	evening set	7151 Nov 18 15:46	11°♄01'48	
asc. node	7150 Dec 17 07:58	16°♄58'39		min. Earth dist.	7151 Nov 22 07:54	7°♄59'32	0.62853 AU
morning rise	7150 Dec 18 10:18	16°♄24'13		inferior conj	7151 Nov 25 03:06	5°♄17'17	-2°55'48
direct	7150 Dec 20 23:47	15°♄50'15		minimum elong	7151 Nov 25 08:30	5°♄04'14	2°53'46
morning max el	7150 Dec 27 10:36	19°♄13'54	17°55'52	morning rise	7151 Dec 02 03:08	0°♄06'52	
	7151 Jan 04 11:41	0°♄			7151 Dec 02 11:27	30°♄♄	
morning set	7151 Jan 13 18:39	15°♄19'26		direct	7151 Dec 04 11:15	29°♄41'33	
desc. node	7151 Jan 21 14:17	28°♄18'07		asc. node	7151 Dec 04 04:59	29°♄41'52	
	7151 Jan 22 15:13	0°♄			7151 Dec 06 10:34	0°♄	
				morning max el	7151 Dec 11 03:42	3°♄07'26	17°48'30
superior conj	7151 Jan 27 10:25	7°♄45'27	-0°40'50	morning set	7151 Dec 27 05:44	27°♄58'36	
minimum elong	7151 Jan 27 05:37	7°♄26'13	0°40'06		7151 Dec 28 09:20	0°♄	
max. Earth dist.	7151 Jan 31 21:50	14°♄52'14	1.45034 AU				
	7151 Feb 10 14:47	0°♄		superior conj	7152 Jan 07 22:52	18°♄10'05	0°03'46
evening rise	7151 Feb 12 12:53	2°♄57'31		minimum elong	7152 Jan 07 23:15	18°♄11'43	0°03'47
greatest brilliancy	7151 Feb 27 04:33	25°♄06'12	-0.6m	behind sun begin	7152 Jan 07 14:18	17°♄34'15	
	7151 Mar 02 14:12	0°♄		behind sun end	7152 Jan 08 08:13	18°♄49'06	
evening max el	7151 Mar 11 03:03	10°♄43'23	20°02'13	desc. node	7152 Jan 08 11:18	19°♄01'58	
asc. node	7151 Mar 15 07:08	14°♄07'22		max. Earth dist.	7152 Jan 14 14:59	29°♄05'55	1.43918 AU
retrograde	7151 Mar 18 18:50	15°♄10'01			7152 Jan 15 04:27	0°♄	
evening set	7151 Mar 22 13:49	13°♄46'19		evening rise	7152 Jan 23 00:11	12°♄18'12	
inferior conj	7151 Mar 27 22:32	7°♄44'16	3°12'19		7152 Feb 03 17:41	0°♄	
minimum elong	7151 Mar 27 20:54	7°♄49'44	3°12'04	evening max el	7152 Feb 22 02:05	24°♄20'26	21°09'24
min. Earth dist.	7151 Mar 28 20:07	6°♄31'27	0.67387 AU	asc. node	7152 Mar 01 04:10	29°♄24'49	
morning rise	7151 Apr 02 03:46	1°♄28'17		retrograde	7152 Mar 01 17:11	29°♄26'21	
	7151 Apr 04 02:29	30°♄♂		evening set	7152 Mar 05 21:43	27°♄47'41	
direct	7151 Apr 07 23:51	28°♄51'51		inferior conj	7152 Mar 11 05:19	21°♄33'53	2°48'53
	7151 Apr 12 06:16	0°♄		minimum elong	7152 Mar 11 03:08	21°♄41'26	2°48'24
desc. node	7151 Apr 19 13:45	5°♄43'22		min. Earth dist.	7152 Mar 11 13:42	21°♄04'47	0.68058 AU
morning max el	7151 Apr 19 18:00	5°♄54'05	24°57'53	morning rise	7152 Mar 16 08:22	15°♄20'15	
	7151 May 08 09:09	0°♄		direct	7152 Mar 21 14:38	13°♄01'28	
morning set	7151 May 25 19:18	28°♄24'25		morning max el	7152 Apr 01 03:12	19°♄17'25	23°28'55
	7151 May 26 16:42	0°♄		desc. node	7152 Apr 05 10:44	24°♄03'20	
max. Earth dist.	7151 May 29 10:22	4°♄59'06	1.36886 AU		7152 Apr 10 04:28	0°♄	
					7152 Apr 30 12:58	0°♄	
superior conj	7151 Jun 04 21:39	17°♄19'08	-1°00'39	morning set	7152 May 06 05:53	9°♄24'30	
minimum elong	7151 Jun 05 01:15	17°♄36'47	1°00'06	max. Earth dist.	7152 May 10 06:04	16°♄17'55	1.39073 AU
asc. node	7151 Jun 11 06:16	0°♄01'50					
	7151 Jun 11 05:55	0°♄		superior conj	7152 May 17 18:57	29°♄55'47	-1°30'25
evening rise	7151 Jun 13 06:45	4°♄06'07		minimum elong	7152 May 18 00:08	0°♄20'00	1°29'47
	7151 Jun 28 13:06	0°♄			7152 May 17 19:51	0°♄	
evening max el	7151 Jun 30 07:52	1°♄54'37	19°31'33	evening rise	7152 May 27 02:43	17°♄48'22	
retrograde	7151 Jul 09 22:49	6°♄38'49		asc. node	7152 May 28 03:19	19°♄47'16	
evening set	7151 Jul 11 19:50	6°♄28'47			7152 Jun 02 14:07	0°♄	
desc. node	7151 Jul 16 13:04	4°♄46'27		evening max el	7152 Jun 12 07:50	14°♄00'43	18°42'54
inferior conj	7151 Jul 20 13:24	2°♄23'25	-1°13'11	retrograde	7152 Jun 20 10:53	18°♄01'50	
minimum elong	7151 Jul 20 10:05	2°♄28'42	1°11'59	evening set	7152 Jun 22 12:34	17°♄47'08	
min. Earth dist.	7151 Jul 22 23:51	0°♄50'25	0.55615 AU	inferior conj	7152 Jun 30 10:47	13°♄24'31	0°34'56
	7151 Jul 24 09:13	30°♄♂		minimum elong	7152 Jun 30 12:06	13°♄22'05	0°34'22
morning rise	7151 Jul 28 21:51	27°♄50'26		desc. node	7152 Jul 02 10:04	11°♄56'16	
direct	7151 Aug 02 15:43	26°♄59'59		min. Earth dist.	7152 Jul 03 16:46	11°♄00'33	0.57230 AU
	7151 Aug 11 15:41	0°♄		morning rise	7152 Jul 08 08:08	8°♄14'27	
morning max el	7151 Aug 16 16:01	4°♄01'17	24°57'40	direct	7152 Jul 13 22:59	6°♄56'37	

morning max el	7152 Jul 28 07:33	14°☿28'26	26°27'57	direct	7153 Jun 25 20:05	17°♄37'20	
	7152 Aug 09 17:29	0°♄		morning max el	7153 Jul 10 05:02	25°♄27'49	27°29'31
asc. node	7152 Aug 24 02:38	25°♄44'21			7153 Jul 14 09:52	0°☿	
morning set	7152 Aug 26 06:03	0°♄12'53			7153 Aug 03 02:34	0°♄	
	7152 Aug 26 03:37	0°♄		morning set	7153 Aug 10 13:39	14°♄46'20	
				asc. node	7153 Aug 10 23:39	15°♄38'46	
superior conj	7152 Sep 02 04:25	15°♄21'19	1°21'22	max. Earth dist.	7153 Aug 17 01:56	28°♄52'22	1.31750 AU
minimum elong	7152 Sep 02 02:14	15°♄09'13	1°21'04				
max. Earth dist.	7152 Sep 02 15:23	16°♄21'59	1.31902 AU	superior conj	7153 Aug 17 16:09	0°♄10'59	1°04'07
	7152 Sep 08 22:03	0°♄		minimum elong	7153 Aug 17 13:55	29°♄58'40	1°03'41
evening rise	7152 Sep 09 01:53	0°♄20'09			7153 Aug 17 14:10	0°♄	
	7152 Sep 25 06:14	0°♄		evening rise	7153 Aug 24 10:36	15°♄00'19	
desc. node	7152 Sep 28 09:11	4°♄39'09			7153 Aug 31 21:30	0°♄	
evening max el	7152 Oct 10 00:28	18°♄37'17	27°03'59	desc. node	7153 Sep 15 06:15	22°♄42'17	
retrograde	7152 Oct 23 21:49	25°♄48'30			7153 Sep 21 18:30	0°♄	
evening set	7152 Oct 30 22:07	23°♄38'26		evening max el	7153 Sep 21 23:07	0°♄11'02	26°06'52
min. Earth dist.	7152 Nov 03 15:04	20°♄57'15	0.60853 AU	retrograde	7153 Oct 05 21:47	7°♄16'26	
inferior conj	7152 Nov 06 18:23	18°♄16'59	-4°01'26	evening set	7153 Oct 12 08:20	5°♄36'47	
minimum elong	7152 Nov 07 01:13	18°♄02'23	3°59'24	min. Earth dist.	7153 Oct 16 12:09	3°♄01'57	0.58774 AU
morning rise	7152 Nov 14 06:34	13°♄26'42		inferior conj	7153 Oct 19 16:33	0°♄40'32	-4°56'41
direct	7152 Nov 16 12:24	13°♄06'37		minimum elong	7153 Oct 19 22:43	0°♄29'02	4°55'31
asc. node	7152 Nov 20 02:00	13°♄59'42			7153 Oct 20 14:30	30°♄	
morning max el	7152 Nov 23 18:09	16°♄43'27	17°59'39	morning rise	7153 Oct 27 15:23	26°♄12'36	
	7152 Dec 03 02:25	0°♄		direct	7153 Oct 29 23:02	25°♄54'37	
morning set	7152 Dec 09 10:32	11°♄27'48		asc. node	7153 Nov 06 23:02	29°♄43'25	
				morning max el	7153 Nov 07 02:21	29°♄51'19	18°30'50
superior conj	7152 Dec 19 13:08	29°♄49'09	0°41'37		7153 Nov 07 05:55	0°♄	
minimum elong	7152 Dec 19 16:16	0°♄02'55	0°41'13	morning set	7153 Nov 23 03:39	25°♄30'56	
	7152 Dec 19 15:36	0°♄			7153 Nov 25 11:23	0°♄	
desc. node	7152 Dec 25 08:20	9°♄48'10					
max. Earth dist.	7152 Dec 27 03:21	12°♄47'49	1.42246 AU	superior conj	7153 Dec 02 01:21	12°♄30'38	1°10'02
evening rise	7153 Jan 01 22:37	22°♄13'20		minimum elong	7153 Dec 02 04:54	12°♄47'04	1°09'40
	7153 Jan 06 21:55	0°♄		max. Earth dist.	7153 Dec 09 11:05	25°♄49'04	1.40215 AU
	7153 Jan 27 22:23	0°♄			7153 Dec 11 21:38	0°♄	
evening max el	7153 Feb 03 20:08	7°♄59'36	22°25'44	desc. node	7153 Dec 12 05:22	0°♄32'44	
retrograde	7153 Feb 13 13:51	13°♄46'30		evening rise	7153 Dec 13 17:26	3°♄03'57	
asc. node	7153 Feb 16 01:12	13°♄15'06			7153 Dec 31 04:34	0°♄	
evening set	7153 Feb 18 05:20	11°♄52'44		evening max el	7154 Jan 17 10:51	21°♄42'20	23°45'53
inferior conj	7153 Feb 23 13:42	5°♄30'27	2°16'14	retrograde	7154 Jan 28 07:27	28°♄06'13	
minimum elong	7153 Feb 23 11:24	5°♄38'26	2°15'35	evening set	7154 Feb 02 11:10	25°♄57'42	
min. Earth dist.	7153 Feb 23 10:03	5°♄43'10	0.68311 AU	asc. node	7154 Feb 02 22:16	25°♄33'10	
	7153 Feb 28 00:02	30°♄		inferior conj	7154 Feb 07 21:49	19°♄30'43	1°35'18
morning rise	7153 Feb 28 17:19	29°♄20'39		minimum elong	7154 Feb 07 19:52	19°♄37'22	1°34'39
direct	7153 Mar 05 09:22	27°♄23'23		min. Earth dist.	7154 Feb 07 06:44	20°♄22'08	0.68163 AU
	7153 Mar 11 12:03	0°♄		morning rise	7154 Feb 13 04:32	13°♄26'26	
morning max el	7153 Mar 14 15:08	2°♄48'05	22°00'42	direct	7154 Feb 17 06:54	11°♄51'44	
desc. node	7153 Mar 23 07:44	13°♄09'19		morning max el	7154 Feb 25 09:21	16°♄29'45	20°40'54
	7153 Apr 04 04:50	0°♄			7154 Mar 08 05:07	0°♄	
morning set	7153 Apr 16 13:01	19°♄06'55		desc. node	7154 Mar 10 04:45	2°♄48'36	
max. Earth dist.	7153 Apr 22 04:07	28°♄20'54	1.41275 AU	morning set	7154 Mar 26 18:48	27°♄41'27	
	7153 Apr 23 03:44	0°♄			7154 Mar 28 06:19	0°♄	
				max. Earth dist.	7154 Apr 04 09:39	11°♄21'17	1.43203 AU
superior conj	7153 Apr 29 21:59	11°♄40'01	-1°55'05				
minimum elong	7153 Apr 30 03:18	12°♄03'29	1°54'43	superior conj	7154 Apr 11 02:11	22°♄22'07	-2°09'29
	7153 May 09 23:31	0°♄		minimum elong	7154 Apr 11 04:30	22°♄31'51	2°09'27
evening rise	7153 May 10 11:28	0°♄55'29			7154 Apr 15 14:03	0°♄	
asc. node	7153 May 15 00:21	9°♄16'20		evening rise	7154 Apr 23 04:42	13°♄18'05	
evening max el	7153 May 26 15:48	26°♄41'29	18°14'35	asc. node	7154 May 01 21:25	28°♄23'24	
	7153 May 31 21:12	0°♄			7154 May 02 21:11	0°♄	
retrograde	7153 Jun 02 17:43	0°♄14'45		evening max el	7154 May 10 04:04	9°♄47'22	18°05'48
	7153 Jun 04 14:58	30°♄		retrograde	7154 May 16 16:31	13°♄08'53	
evening set	7153 Jun 05 02:50	29°♄51'25		evening set	7154 May 19 08:54	12°♄34'21	
inferior conj	7153 Jun 12 05:49	25°♄08'24	1°56'26	inferior conj	7154 May 25 20:00	7°♄31'07	2°49'08
minimum elong	7153 Jun 12 08:57	25°♄01'34	1°55'26	minimum elong	7154 May 25 22:48	7°♄24'05	2°48'29
min. Earth dist.	7153 Jun 15 15:28	22°♄12'25	0.59332 AU	min. Earth dist.	7154 May 28 21:52	4°♄27'34	0.61573 AU
desc. node	7153 Jun 19 07:07	19°♄35'05		morning rise	7154 Jun 01 10:41	1°♄30'34	
morning rise	7153 Jun 19 12:03	19°♄27'55			7154 Jun 04 03:50	30°♄	

desc. node	7154 Jun 06 04:08	29°♄22'35		morning rise	7155 May 15 02:21	14°♄12'24	
direct	7154 Jun 08 04:09	29°♄10'26		direct	7155 May 21 21:05	11°♄32'12	
	7154 Jun 12 09:10	0°♄		desc. node	7155 May 24 01:10	11°♄46'59	
morning max el	7154 Jun 22 08:59	7°♄10'17	27°54'20	morning max el	7155 Jun 04 17:32	19°♄32'58	27°41'35
	7154 Jul 09 17:14	0°♄			7155 Jun 13 14:56	0°♄	
morning set	7154 Jul 25 16:30	29°♄03'10			7155 Jul 02 16:59	0°♄	
	7154 Jul 26 03:33	0°♄		morning set	7155 Jul 09 12:13	12°♄56'05	
asc. node	7154 Jul 28 20:41	5°♄41'28		max. Earth dist.	7155 Jul 14 13:08	23°♄16'12	1.32805 AU
max. Earth dist.	7154 Jul 31 10:32	11°♄14'35	1.32050 AU	asc. node	7155 Jul 15 17:42	25°♄47'32	
superior conj	7154 Aug 02 02:24	14°♄52'21	0°42'26	superior conj	7155 Jul 17 09:15	29°♄19'08	0°16'50
minimum elong	7154 Aug 02 00:37	14°♄42'38	0°42'01	minimum elong	7155 Jul 17 08:26	29°♄14'47	0°16'36
evening rise	7154 Aug 08 21:48	29°♄44'49			7155 Jul 17 16:50	0°♄	
	7154 Aug 09 00:38	0°♄		evening rise	7155 Jul 24 09:30	14°♄26'58	
	7154 Aug 25 12:22	0°♄			7155 Aug 01 03:55	0°♄	
desc. node	7154 Sep 02 03:18	9°♄29'35		evening max el	7155 Aug 16 01:50	21°♄13'43	23°04'23
evening max el	7154 Sep 03 14:11	10°♄56'51	24°42'24	desc. node	7155 Aug 20 00:20	24°♄32'24	
retrograde	7154 Sep 17 10:20	17°♄54'47		retrograde	7155 Aug 29 10:38	27°♄54'51	
evening set	7154 Sep 22 18:12	16°♄51'18		evening set	7155 Sep 02 06:18	27°♄22'55	
min. Earth dist.	7154 Sep 28 01:20	14°♄04'35	0.56859 AU	min. Earth dist.	7155 Sep 09 10:34	24°♄07'08	0.55407 AU
inferior conj	7154 Sep 30 18:48	12°♄19'11	-5°27'21	inferior conj	7155 Sep 11 01:30	23°♄10'46	-5°15'19
minimum elong	7154 Sep 30 20:36	12°♄16'17	5°27'16	minimum elong	7155 Sep 10 20:10	23°♄18'30	5°14'42
morning rise	7154 Oct 09 01:13	8°♄13'29		morning rise	7155 Sep 19 12:14	19°♄20'34	
direct	7154 Oct 11 15:19	7°♄54'53		direct	7155 Sep 22 12:26	18°♄59'11	
morning max el	7154 Oct 21 00:46	12°♄21'07	19°23'48	morning max el	7155 Oct 03 10:56	24°♄05'21	20°39'02
asc. node	7154 Oct 24 20:04	16°♄38'39			7155 Oct 08 15:03	0°♄	
	7154 Nov 02 02:29	0°♄		asc. node	7155 Oct 11 17:06	4°♄30'24	
morning set	7154 Nov 07 05:09	9°♄56'53		morning set	7155 Oct 22 12:10	24°♄37'41	
					7155 Oct 25 02:24	0°♄	
superior conj	7154 Nov 15 06:23	26°♄00'24	1°28'57	superior conj	7155 Oct 29 23:35	10°♄05'31	1°39'16
minimum elong	7154 Nov 15 09:02	26°♄13'18	1°28'47	minimum elong	7155 Oct 30 00:52	10°♄11'59	1°39'16
	7154 Nov 17 07:53	0°♄		max. Earth dist.	7155 Nov 04 00:33	20°♄08'22	1.36044 AU
max. Earth dist.	7154 Nov 21 16:42	8°♄11'18	1.38068 AU	evening rise	7155 Nov 07 23:03	27°♄36'20	
evening rise	7154 Nov 25 10:25	14°♄53'38			7155 Nov 09 06:22	0°♄	
desc. node	7154 Nov 29 02:24	21°♄12'02		desc. node	7155 Nov 15 23:25	11°♄41'56	
	7154 Dec 04 11:29	0°♄			7155 Nov 27 19:52	0°♄	
	7154 Dec 25 22:47	0°♄		evening max el	7155 Dec 13 12:52	19°♄13'03	26°10'31
evening max el	7154 Dec 30 24:00	5°♄27'52	25°03'11	retrograde	7155 Dec 26 05:22	26°♄24'26	
retrograde	7155 Jan 11 20:50	12°♄20'38		evening set	7156 Jan 01 10:58	23°♄51'58	
evening set	7155 Jan 17 13:37	9°♄58'35		min. Earth dist.	7156 Jan 05 16:01	19°♄25'44	0.66740 AU
asc. node	7155 Jan 20 19:20	6°♄33'12		inferior conj	7156 Jan 07 05:47	17°♄29'21	-0°08'56
min. Earth dist.	7155 Jan 22 01:28	4°♄57'33	0.67637 AU	minimum elong	7156 Jan 07 06:01	17°♄28'37	0°08'46
inferior conj	7155 Jan 23 03:48	3°♄31'20	0°46'41	transit middle	7156 Jan 07 06:01	17°♄28'37	0°08'46
minimum elong	7155 Jan 23 02:41	3°♄34'59	0°46'18	transit begin	7156 Jan 07 03:36	17°♄36'03	
	7155 Jan 26 00:07	30°♄		transit end	7156 Jan 07 08:25	17°♄21'13	
morning rise	7155 Jan 28 16:01	27°♄34'22		asc. node	7156 Jan 07 16:22	16°♄56'44	
direct	7155 Feb 01 05:45	26°♄20'57		morning rise	7156 Jan 13 01:43	11°♄41'49	
	7155 Feb 08 02:01	0°♄		direct	7156 Jan 16 04:24	10°♄46'48	
morning max el	7155 Feb 08 11:35	0°♄23'16	19°34'11	morning max el	7156 Jan 22 21:11	14°♄25'46	18°42'55
greatest brilliancy	7155 Feb 21 07:49	17°♄15'21	-0.7m		7156 Feb 03 11:23	0°♄	
desc. node	7155 Feb 25 01:44	22°♄51'40		desc. node	7156 Feb 11 22:43	13°♄12'19	
	7155 Mar 01 18:21	0°♄		morning set	7156 Feb 13 05:19	15°♄12'30	
morning set	7155 Mar 05 16:01	5°♄59'44			7156 Feb 22 15:38	0°♄	
max. Earth dist.	7155 Mar 17 22:32	25°♄08'48	1.44615 AU	max. Earth dist.	7156 Feb 28 16:02	9°♄25'16	1.45356 AU
	7155 Mar 20 23:45	0°♄					
superior conj	7155 Mar 22 05:13	1°♄58'03	-2°07'35	superior conj	7156 Feb 29 13:10	10°♄48'07	-1°45'38
minimum elong	7155 Mar 22 01:09	1°♄41'41	2°07'27	minimum elong	7156 Feb 29 03:53	10°♄11'43	1°44'50
evening rise	7155 Apr 05 01:48	24°♄46'14			7156 Mar 12 16:36	0°♄	
	7155 Apr 08 04:24	0°♄		evening rise	7156 Mar 15 23:39	5°♄16'23	
asc. node	7155 Apr 18 18:28	17°♄00'28		greatest brilliancy	7156 Mar 23 09:02	17°♄07'44	-0.9m
evening max el	7155 Apr 23 17:13	23°♄08'37	18°15'54		7156 Mar 31 19:20	0°♄	
retrograde	7155 Apr 30 02:40	26°♄33'09		asc. node	7156 Apr 04 15:31	4°♄58'23	
evening set	7155 May 03 01:52	25°♄45'57		evening max el	7156 Apr 06 04:34	6°♄39'01	18°44'09
inferior conj	7155 May 09 01:10	20°♄23'58	3°17'29	retrograde	7156 Apr 12 19:58	10°♄19'24	
minimum elong	7155 May 09 02:41	20°♄19'43	3°17'15	evening set	7156 Apr 16 02:10	9°♄18'40	
min. Earth dist.	7155 May 11 13:27	17°♄35'09	0.63667 AU	inferior conj	7156 Apr 21 17:26	3°♄39'45	3°26'43

minimum elong	7156 Apr 21 17:30	3°♄39'31	3°26'39	greatest brilliancy	7157 Mar 08 14:38	4°♄21'05	-0.7m
min. Earth dist.	7156 Apr 23 14:21	1°♄21'38	0.65439 AU	evening max el	7157 Mar 20 12:00	20°♄13'44	19°29'27
	7156 Apr 24 18:11	30°♄♂		asc. node	7157 Mar 22 12:33	22°♄05'10	
morning rise	7156 Apr 27 08:15	27°♄23'32		retrograde	7157 Mar 27 17:04	24°♄20'56	
direct	7156 May 03 21:36	24°♄35'32		evening set	7157 Mar 31 07:01	23°♄05'56	
desc. node	7156 May 09 22:10	26°♄29'44		inferior conj	7157 Apr 05 17:23	17°♄11'56	3°21'06
	7156 May 14 14:39	0°♄		minimum elong	7157 Apr 05 16:16	17°♄15'35	3°20'58
morning max el	7156 May 17 03:55	2°♄25'49	26°55'53	min. Earth dist.	7157 Apr 06 23:15	15°♄33'50	0.66799 AU
	7156 Jun 06 20:28	0°♄		morning rise	7157 Apr 11 01:11	10°♄55'06	
morning set	7156 Jun 21 21:48	26°♄16'58		direct	7157 Apr 17 04:32	8°♄11'20	
	7156 Jun 23 19:50	0°♄		desc. node	7157 Apr 26 19:09	12°♄58'17	
max. Earth dist.	7156 Jun 26 06:06	4°♄49'33	1.34035 AU	morning max el	7157 Apr 29 13:45	15°♄35'55	25°45'35
					7157 May 11 10:09	0°♄	
superior conj	7156 Jun 30 10:34	13°♄25'30	-0°11'57		7157 May 30 17:15	0°♄	
minimum elong	7156 Jun 30 11:12	13°♄28'53	0°11'53	morning set	7157 Jun 04 17:19	8°♄54'42	
behind sun begin	7156 Jun 30 07:21	13°♄08'46		max. Earth dist.	7157 Jun 08 11:46	15°♄57'27	1.35725 AU
behind sun end	7156 Jun 30 15:03	13°♄49'02					
asc. node	7156 Jul 01 14:43	15°♄53'12		superior conj	7157 Jun 14 03:45	27°♄04'37	-0°42'42
evening rise	7156 Jul 07 19:48	29°♄01'08		minimum elong	7157 Jun 14 06:14	27°♄17'06	0°42'18
	7156 Jul 08 07:04	0°♄			7157 Jun 15 14:26	0°♄	
	7156 Jul 26 05:29	0°♄		asc. node	7157 Jun 18 11:44	5°♄54'41	
evening max el	7156 Jul 27 18:51	1°♄37'15	21°29'19	evening rise	7157 Jun 22 02:36	13°♄21'16	
desc. node	7156 Aug 05 21:23	7°♄17'56			7157 Jun 30 19:01	0°♄	
retrograde	7156 Aug 09 01:09	7°♄41'51		evening max el	7157 Jul 09 23:57	12°♄36'46	20°09'01
evening set	7156 Aug 11 13:07	7°♄27'35		retrograde	7157 Jul 20 14:40	17°♄49'58	
inferior conj	7156 Aug 20 19:38	3°♄28'36	-4°09'16	evening set	7157 Jul 22 12:35	17°♄40'32	
minimum elong	7156 Aug 20 10:19	3°♄41'40	4°06'48	desc. node	7157 Jul 23 18:25	17°♄24'48	
min. Earth dist.	7156 Aug 20 19:48	3°♄28'22	0.54737 AU	inferior conj	7157 Jul 31 14:48	13°♄42'02	-2°21'31
	7156 Aug 28 00:45	30°♄♂		minimum elong	7157 Jul 31 08:16	13°♄51'43	2°19'13
morning rise	7156 Aug 29 08:29	29°♄36'51		min. Earth dist.	7157 Aug 02 07:03	12°♄42'16	0.55026 AU
direct	7156 Sep 01 21:38	29°♄09'35		morning rise	7157 Aug 09 02:33	9°♄28'24	
	7156 Sep 06 14:19	0°♄		direct	7157 Aug 13 09:00	8°♄48'48	
morning max el	7156 Sep 14 09:05	5°♄03'23	22°13'28	morning max el	7157 Aug 26 23:23	15°♄28'19	23°58'11
asc. node	7156 Sep 27 14:06	23°♄05'10			7157 Sep 07 11:21	0°♄	
	7156 Oct 01 07:06	0°♄		asc. node	7157 Sep 14 11:06	12°♄12'28	
morning set	7156 Oct 05 22:24	9°♄26'09		morning set	7157 Sep 20 10:04	24°♄17'19	
					7157 Sep 23 01:52	0°♄	
superior conj	7156 Oct 13 01:14	24°♄34'15	1°42'07				
minimum elong	7156 Oct 13 01:08	24°♄33'44	1°42'10	superior conj	7157 Sep 27 08:27	9°♄17'59	1°38'29
	7156 Oct 15 15:29	0°♄		minimum elong	7157 Sep 27 07:14	9°♄11'25	1°38'26
max. Earth dist.	7156 Oct 16 15:09	2°♄01'53	1.34337 AU	max. Earth dist.	7157 Sep 29 14:26	14°♄08'49	1.33049 AU
evening rise	7156 Oct 21 03:18	11°♄01'26		evening rise	7157 Oct 04 19:24	24°♄59'05	
	7156 Oct 31 16:11	0°♄			7157 Oct 07 08:11	0°♄	
desc. node	7156 Nov 01 20:27	1°♄56'38		desc. node	7157 Oct 19 17:30	21°♄49'19	
	7156 Nov 22 06:46	0°♄			7157 Oct 25 04:01	0°♄	
evening max el	7156 Nov 25 01:48	2°♄50'20	27°00'37	evening max el	7157 Nov 07 13:53	16°♄09'26	27°26'22
retrograde	7156 Dec 08 08:20	10°♄09'38		retrograde	7157 Nov 21 04:58	23°♄27'53	
evening set	7156 Dec 15 01:11	7°♄32'07		evening set	7157 Nov 28 05:44	20°♄53'10	
min. Earth dist.	7156 Dec 19 00:11	3°♄40'23	0.65488 AU	min. Earth dist.	7157 Dec 01 23:52	17°♄33'55	0.63903 AU
inferior conj	7156 Dec 21 01:35	1°♄19'42	-1°10'41	inferior conj	7157 Dec 04 12:45	14°♄56'49	-2°16'51
minimum elong	7156 Dec 21 03:38	1°♄13'50	1°09'44	minimum elong	7157 Dec 04 16:56	14°♄45'59	2°15'07
	7156 Dec 22 05:56	30°♄♂		morning rise	7157 Dec 11 05:46	9°♄35'56	
asc. node	7156 Dec 24 13:24	27°♄39'50		asc. node	7157 Dec 11 10:26	9°♄31'27	
morning rise	7156 Dec 27 07:16	25°♄44'00		direct	7157 Dec 13 16:33	9°♄06'09	
direct	7156 Dec 30 00:49	25°♄03'35		morning max el	7157 Dec 20 04:59	12°♄30'02	17°50'27
morning max el	7157 Jan 05 11:55	28°♄30'22	18°08'06		7158 Jan 01 06:15	0°♄	
	7157 Jan 06 21:34	0°♄		morning set	7158 Jan 05 21:32	7°♄54'30	
morning set	7157 Jan 23 23:31	25°♄52'42		desc. node	7158 Jan 15 16:42	24°♄25'45	
	7157 Jan 26 12:13	0°♄					
desc. node	7157 Jan 28 19:42	3°♄44'58		superior conj	7158 Jan 18 16:49	29°♄21'23	-0°21'26
				minimum elong	7158 Jan 18 14:25	29°♄11'36	0°21'00
superior conj	7157 Feb 07 18:46	19°♄39'11	-1°06'55		7158 Jan 19 02:19	0°♄	
minimum elong	7157 Feb 07 10:56	19°♄08'17	1°05'52	max. Earth dist.	7158 Jan 24 05:50	8°♄15'55	1.44640 AU
max. Earth dist.	7157 Feb 10 11:14	23°♄52'41	1.45361 AU	evening rise	7158 Feb 03 11:17	24°♄13'09	
	7157 Feb 14 09:09	0°♄			7158 Feb 07 06:06	0°♄	
evening rise	7157 Feb 23 23:39	14°♄56'09			7158 Feb 28 04:37	0°♄	
	7157 Mar 05 17:45	0°♄		evening max el	7158 Mar 03 14:17	3°♄50'23	20°29'32

asc. node	7158 Mar 09 09:36	8°♿06'48		evening max el	7159 Feb 14 11:12	17°♿28'53	21°41'06
retrograde	7158 Mar 11 15:25	8°♿32'54		retrograde	7159 Feb 23 13:08	22°♿51'46	
evening set	7158 Mar 15 14:18	7°♿02'59		asc. node	7159 Feb 24 06:38	22°♿49'00	
inferior conj	7158 Mar 20 22:18	0°♿55'52	3°03'34	evening set	7159 Feb 27 22:16	21°♿06'32	
minimum elong	7158 Mar 20 20:24	1°♿02'25	3°03'13	inferior conj	7159 Mar 05 06:00	14°♿48'52	2°36'05
min. Earth dist.	7158 Mar 21 14:12	0°♿01'29	0.67726 AU	minimum elong	7159 Mar 05 03:43	14°♿56'49	2°35'31
	7158 Mar 21 14:39	30°♿		min. Earth dist.	7159 Mar 05 09:08	14°♿37'59	0.68219 AU
morning rise	7158 Mar 26 02:16	24°♿40'47		morning rise	7159 Mar 10 09:00	8°♿36'57	
direct	7158 Mar 31 16:44	22°♿10'52		direct	7159 Mar 15 09:16	6°♿27'03	
morning max el	7158 Apr 11 22:29	28°♿54'21	24°20'29	morning max el	7159 Mar 25 08:22	12°♿20'29	22°50'51
	7158 Apr 12 23:49	0°♿		desc. node	7159 Mar 31 13:09	19°♿25'23	
desc. node	7158 Apr 13 16:08	0°♿43'52			7159 Apr 08 10:52	0°♿	
	7158 May 05 04:52	0°♿			7159 Apr 28 01:47	0°♿	
morning set	7158 May 17 17:30	20°♿34'10		morning set	7159 Apr 28 16:46	1°♿01'48	
max. Earth dist.	7158 May 21 09:05	27°♿02'14	1.37793 AU	max. Earth dist.	7159 May 03 05:30	8°♿39'29	1.40029 AU
	7158 May 23 00:12	0°♿					
superior conj	7158 May 28 09:28	10°♿06'53	-1°13'37	superior conj	7159 May 10 23:36	22°♿22'49	-1°41'46
minimum elong	7158 May 28 13:49	10°♿27'51	1°13'01	minimum elong	7159 May 11 05:07	22°♿47'58	1°41'13
asc. node	7158 Jun 05 08:46	25°♿47'10			7159 May 15 02:22	0°♿	
evening rise	7158 Jun 06 03:23	27°♿19'26		evening rise	7159 May 20 19:04	10°♿48'08	
	7158 Jun 07 11:55	0°♿		asc. node	7159 May 23 05:49	15°♿26'27	
evening max el	7158 Jun 22 17:45	24°♿19'24	19°08'24		7159 May 31 14:30	0°♿	
retrograde	7158 Jul 01 16:02	28°♿43'12		evening max el	7159 Jun 05 21:33	6°♿41'04	18°28'22
evening set	7158 Jul 03 14:35	28°♿31'37		retrograde	7159 Jun 13 12:22	10°♿28'29	
desc. node	7158 Jul 10 15:27	25°♿14'34		evening set	7159 Jun 15 17:13	10°♿10'24	
inferior conj	7158 Jul 12 00:16	24°♿19'43	-0°24'47	inferior conj	7159 Jun 23 06:54	5°♿38'49	1°13'07
minimum elong	7158 Jul 11 23:12	24°♿21'31	0°24'27	minimum elong	7159 Jun 23 09:20	5°♿33'59	1°12'13
min. Earth dist.	7158 Jul 14 21:10	22°♿23'32	0.56225 AU	min. Earth dist.	7159 Jun 26 16:00	2°♿58'45	0.58087 AU
morning rise	7158 Jul 20 04:46	19°♿31'14		desc. node	7159 Jun 27 12:29	2°♿21'01	
direct	7158 Jul 25 07:57	18°♿30'04		morning rise	7159 Jun 30 22:07	0°♿14'45	
morning max el	7158 Aug 08 12:30	25°♿45'14	25°38'39		7159 Jul 01 10:21	30°♿	
	7158 Aug 12 12:34	0°♿		direct	7159 Jul 06 20:57	28°♿43'33	
	7158 Aug 31 11:27	0°♿			7159 Jul 12 10:53	0°♿	
asc. node	7158 Sep 01 08:07	1°♿43'12		morning max el	7159 Jul 21 06:21	6°♿23'44	26°58'22
morning set	7158 Sep 04 21:27	9°♿05'31			7159 Aug 07 19:17	0°♿	
				asc. node	7159 Aug 19 05:09	21°♿30'45	
superior conj	7158 Sep 11 18:55	24°♿08'43	1°29'08	morning set	7159 Aug 20 06:59	23°♿46'06	
minimum elong	7158 Sep 11 16:58	23°♿57'57	1°28'54		7159 Aug 23 04:38	0°♿	
max. Earth dist.	7158 Sep 12 20:49	26°♿31'08	1.32201 AU	superior conj	7159 Aug 27 06:42	9°♿00'23	1°14'37
	7158 Sep 14 11:01	0°♿		minimum elong	7159 Aug 27 04:27	8°♿47'51	1°14'15
evening rise	7158 Sep 18 20:00	9°♿19'09		max. Earth dist.	7159 Aug 27 07:03	9°♿02'16	1.31789 AU
	7158 Sep 29 16:22	0°♿		evening rise	7159 Sep 03 02:25	23°♿53'57	
desc. node	7158 Oct 06 14:34	11°♿10'15			7159 Sep 06 01:00	0°♿	
evening max el	7158 Oct 20 22:52	28°♿56'35	27°21'45	desc. node	7159 Sep 23 11:37	29°♿46'46	
	7158 Oct 22 02:34	0°♿			7159 Sep 23 15:29	0°♿	
retrograde	7158 Nov 03 18:20	6°♿09'52		evening max el	7159 Oct 03 01:48	10°♿58'53	26°43'27
evening set	7158 Nov 10 21:21	3°♿47'43		retrograde	7159 Oct 16 23:30	18°♿07'05	
min. Earth dist.	7158 Nov 14 13:13	0°♿55'37	0.62030 AU	evening set	7159 Oct 23 19:43	16°♿08'36	
	7158 Nov 15 13:53	30°♿		min. Earth dist.	7159 Oct 27 15:39	13°♿32'30	0.59973 AU
inferior conj	7158 Nov 17 12:16	28°♿12'45	-3°24'16	inferior conj	7159 Oct 30 20:40	10°♿58'09	-4°26'50
minimum elong	7158 Nov 17 18:25	27°♿58'36	3°22'07	minimum elong	7159 Oct 31 03:35	10°♿44'13	4°25'04
morning rise	7158 Nov 24 17:30	23°♿10'11		morning rise	7159 Nov 07 13:42	6°♿17'18	
direct	7158 Nov 27 00:18	22°♿47'23		direct	7159 Nov 09 19:55	5°♿58'21	
asc. node	7158 Nov 28 07:27	22°♿54'59		asc. node	7159 Nov 15 04:31	7°♿50'56	
morning max el	7158 Dec 03 21:19	26°♿16'52	17°50'50	morning max el	7159 Nov 17 09:32	9°♿42'03	18°10'23
	7158 Dec 07 01:56	0°♿			7159 Nov 30 15:06	0°♿	
morning set	7158 Dec 19 16:57	20°♿57'39		morning set	7159 Dec 03 03:33	4°♿43'00	
	7158 Dec 24 18:19	0°♿					
superior conj	7158 Dec 30 16:27	10°♿18'17	0°20'54	superior conj	7159 Dec 12 16:42	22°♿25'56	0°54'52
minimum elong	7158 Dec 30 18:20	10°♿26'20	0°20'41	minimum elong	7159 Dec 12 20:13	22°♿41'49	0°54'27
desc. node	7159 Jan 02 13:44	15°♿11'10			7159 Dec 16 23:19	0°♿	
max. Earth dist.	7159 Jan 06 21:36	22°♿19'42	1.43270 AU	desc. node	7159 Dec 20 10:46	5°♿57'07	
	7159 Jan 11 16:24	0°♿		max. Earth dist.	7159 Dec 20 08:19	5°♿46'49	1.41412 AU
evening rise	7159 Jan 14 01:47	3°♿45'22		evening rise	7159 Dec 25 08:11	14°♿02'24	
	7159 Jan 31 16:21	0°♿			7160 Jan 04 13:57	0°♿	
					7160 Jan 27 00:43	0°♿	



evening max el	7160 Jan 28 03:30	1° $\text{X}$ 09'08	22°59'42	retrograde	7161 Jan 21 00:45	21° $\approx$ 31'04	
retrograde	7160 Feb 07 08:41	7° $\text{X}$ 12'38		evening set	7161 Jan 26 09:56	19° $\approx$ 16'27	
asc. node	7160 Feb 11 03:42	6° $\text{X}$ 00'05		asc. node	7161 Jan 28 00:46	17° $\approx$ 42'12	
evening set	7160 Feb 12 05:20	5° $\text{X}$ 12'12		min. Earth dist.	7161 Jan 31 02:01	13° $\approx$ 55'26	0.67985 AU
	7160 Feb 16 17:24	30° $\text{R}$		inferior conj	7161 Jan 31 21:55	12° $\approx$ 48'29	1°15'36
min. Earth dist.	7160 Feb 17 05:49	29° $\approx$ 17'16	0.68297 AU	minimum elong	7161 Jan 31 20:16	12° $\approx$ 54'03	1°15'00
inferior conj	7160 Feb 17 14:29	28° $\approx$ 47'18	1°59'50	morning rise	7161 Feb 06 06:42	6° $\approx$ 47'00	
minimum elong	7160 Feb 17 12:17	28° $\approx$ 54'56	1°59'09	direct	7161 Feb 10 03:24	5° $\approx$ 21'49	
morning rise	7160 Feb 22 19:08	22° $\approx$ 39'52		morning max el	7161 Feb 17 20:23	9° $\approx$ 43'34	20°10'38
direct	7160 Feb 27 05:12	20° $\approx$ 52'28		desc. node	7161 Mar 04 07:09	28° $\approx$ 37'17	
morning max el	7160 Mar 06 22:46	25° $\approx$ 56'13	21°25'26		7161 Mar 05 05:38	0° $\text{X}$	
	7160 Mar 10 15:16	0° $\text{X}$		morning set	7161 Mar 17 11:13	18° $\text{X}$ 30'49	
desc. node	7160 Mar 17 10:09	8° $\text{X}$ 46'49			7161 Mar 24 19:38	0° $\text{Y}$	
	7160 Mar 31 22:38	0° $\text{Y}$		max. Earth dist.	7161 Mar 27 14:57	4° $\text{Y}$ 27'53	1.43877 AU
morning set	7160 Apr 07 12:08	10° $\text{Y}$ 12'06					
max. Earth dist.	7160 Apr 14 06:44	21° $\text{Y}$ 07'58	1.42145 AU	superior conj	7161 Apr 02 10:41	13° $\text{Y}$ 54'06	-2°11'00
	7160 Apr 19 13:49	0° $\text{Z}$		minimum elong	7161 Apr 02 10:35	13° $\text{Y}$ 53'40	2°11'01
					7161 Apr 12 00:34	0° $\text{Z}$	
superior conj	7160 Apr 21 17:20	3° $\text{Z}$ 41'02	-2°02'49	evening rise	7161 Apr 15 06:56	5° $\text{Z}$ 37'46	
minimum elong	7160 Apr 21 21:51	4° $\text{Z}$ 00'32	2°02'35	asc. node	7161 Apr 25 23:53	23° $\text{Z}$ 42'21	
evening rise	7160 May 02 21:46	23° $\text{Z}$ 37'34			7161 Apr 30 09:48	0° $\text{II}$	
	7160 May 06 10:10	0° $\text{II}$		evening max el	7161 May 02 20:37	2° $\text{II}$ 46'10	18°07'51
asc. node	7160 May 09 02:51	4° $\text{II}$ 46'56		retrograde	7161 May 09 06:44	6° $\text{II}$ 07'23	
evening max el	7160 May 19 07:39	19° $\text{II}$ 32'53	18°08'27	evening set	7161 May 12 01:57	5° $\text{II}$ 27'44	
retrograde	7160 May 26 02:41	22° $\text{II}$ 59'40		inferior conj	7161 May 18 07:34	0° $\text{II}$ 16'36	3°03'49
evening set	7160 May 28 14:48	22° $\text{II}$ 31'57		minimum elong	7161 May 18 09:53	0° $\text{II}$ 10'30	3°03'21
inferior conj	7160 Jun 04 10:31	17° $\text{II}$ 40'03	2°22'08		7161 May 18 13:51	30° $\text{R}$	
minimum elong	7160 Jun 04 13:42	17° $\text{II}$ 32'40	2°21'13	min. Earth dist.	7161 May 21 04:14	27° $\text{R}$ 16'31	0.62492 AU
min. Earth dist.	7160 Jun 07 17:50	14° $\text{II}$ 37'45	0.60282 AU	morning rise	7161 May 24 16:08	24° $\text{R}$ 10'14	
morning rise	7160 Jun 11 09:57	11° $\text{II}$ 49'24		direct	7161 May 31 11:07	21° $\text{R}$ 39'46	
desc. node	7160 Jun 13 09:30	10° $\text{II}$ 45'44		desc. node	7161 May 31 06:32	21° $\text{R}$ 39'53	
direct	7160 Jun 17 22:49	9° $\text{II}$ 45'32		morning max el	7161 Jun 14 13:06	29° $\text{R}$ 42'08	27°53'19
morning max el	7160 Jul 02 06:56	17° $\text{II}$ 41'39	27°44'55		7161 Jun 14 20:12	0° $\text{II}$	
	7160 Jul 12 12:53	0° $\text{O}$			7161 Jul 06 12:40	0° $\text{O}$	
	7160 Jul 30 11:02	0° $\text{O}$		morning set	7161 Jul 18 12:56	22° $\text{O}$ 21'11	
morning set	7160 Aug 03 12:51	8° $\text{O}$ 13'37			7161 Jul 22 05:27	0° $\text{O}$	
asc. node	7160 Aug 05 02:11	11° $\text{O}$ 29'27		asc. node	7161 Jul 22 23:10	1° $\text{O}$ 34'05	
max. Earth dist.	7160 Aug 09 17:16	21° $\text{O}$ 30'47	1.31815 AU	max. Earth dist.	7161 Jul 23 23:32	3° $\text{O}$ 44'28	1.32303 AU
superior conj	7160 Aug 10 18:02	23° $\text{O}$ 47'21	0°55'25	superior conj	7161 Jul 26 03:03	8° $\text{O}$ 23'18	0°32'01
minimum elong	7160 Aug 10 15:56	23° $\text{O}$ 35'47	0°55'00	minimum elong	7161 Jul 26 01:37	8° $\text{O}$ 15'32	0°31'40
	7160 Aug 13 13:29	0° $\text{P}$		evening rise	7161 Aug 02 00:01	23° $\text{O}$ 20'38	
evening rise	7160 Aug 17 12:25	8° $\text{P}$ 36'40			7161 Aug 05 04:18	0° $\text{P}$	
	7160 Aug 28 11:50	0° $\text{P}$			7161 Aug 23 19:41	0° $\text{P}$	
desc. node	7160 Sep 09 08:39	17° $\text{P}$ 21'14		evening max el	7161 Aug 26 09:35	2° $\text{P}$ 41'06	24°01'31
evening max el	7160 Sep 13 20:50	22° $\text{P}$ 11'00	25°33'37	desc. node	7161 Aug 27 05:42	3° $\text{P}$ 28'18	
retrograde	7160 Sep 27 19:12	29° $\text{P}$ 14'39		retrograde	7161 Sep 09 02:58	9° $\text{P}$ 34'14	
evening set	7160 Oct 03 20:04	27° $\text{P}$ 49'49		evening set	7161 Sep 13 19:38	8° $\text{P}$ 45'42	
min. Earth dist.	7160 Oct 08 08:54	25° $\text{P}$ 12'24	0.57918 AU	min. Earth dist.	7161 Sep 19 20:13	5° $\text{P}$ 48'14	0.56155 AU
inferior conj	7160 Oct 11 10:38	23° $\text{P}$ 03'58	-5°13'45	inferior conj	7161 Sep 22 04:13	4° $\text{P}$ 22'26	-5°28'35
minimum elong	7160 Oct 11 15:28	22° $\text{P}$ 55'30	5°13'07	minimum elong	7161 Sep 22 03:04	4° $\text{P}$ 24'11	5°28'32
morning rise	7160 Oct 19 13:12	18° $\text{P}$ 46'13		morning rise	7161 Sep 30 12:46	0° $\text{P}$ 24'32	
direct	7160 Oct 21 22:55	18° $\text{P}$ 28'24		direct	7161 Oct 03 06:33	0° $\text{P}$ 05'09	
morning max el	7160 Oct 30 14:07	22° $\text{P}$ 36'13	18°50'40	morning max el	7161 Oct 13 07:36	4° $\text{P}$ 47'48	19°53'08
asc. node	7160 Nov 01 01:34	24° $\text{P}$ 07'47		asc. node	7161 Oct 18 22:35	11° $\text{P}$ 28'59	
	7160 Nov 05 12:13	0° $\text{M}$			7161 Oct 29 10:56	0° $\text{M}$	
morning set	7160 Nov 16 00:40	18° $\text{M}$ 57'37		morning set	7161 Oct 31 04:50	3° $\text{M}$ 30'49	
	7160 Nov 21 15:53	0° $\text{X}$					
				superior conj	7161 Nov 07 23:30	19° $\text{M}$ 17'17	1°34'17
superior conj	7160 Nov 24 12:47	5° $\text{X}$ 30'51	1°19'09	minimum elong	7161 Nov 08 01:35	19° $\text{M}$ 27'39	1°34'12
minimum elong	7160 Nov 24 16:02	5° $\text{X}$ 46'19	1°18'52		7161 Nov 13 11:58	0° $\text{X}$	
max. Earth dist.	7160 Dec 01 14:24	18° $\text{X}$ 29'58	1.39298 AU	max. Earth dist.	7161 Nov 13 19:59	0° $\text{X}$ 37'43	1.37179 AU
evening rise	7160 Dec 05 12:36	25° $\text{X}$ 19'10		evening rise	7161 Nov 17 14:27	7° $\text{X}$ 33'05	
desc. node	7160 Dec 06 07:47	26° $\text{X}$ 40'29		desc. node	7161 Nov 23 04:49	17° $\text{X}$ 16'36	
	7160 Dec 08 07:31	0° $\text{Z}$			7161 Dec 01 03:18	0° $\text{Z}$	
	7160 Dec 28 06:50	0° $\approx$		evening max el	7161 Dec 23 06:09	28° $\text{Z}$ 39'28	25°33'28
evening max el	7161 Jan 09 17:09	14° $\approx$ 52'55	24°19'25		7161 Dec 24 16:16	0° $\approx$	

retrograde	7162 Jan 04 12:17	5° $\approx$ 41'44			7162 Nov 25 01:58	0° $\approx$	
evening set	7162 Jan 10 10:26	3° $\approx$ 15'02		evening max el	7162 Dec 05 19:18	12° $\approx$ 23'11	26°34'25
	7162 Jan 13 13:46	30° $\approx$ 3		retrograde	7162 Dec 18 18:20	19° $\approx$ 38'22	
asc. node	7162 Jan 14 21:49	28° $\approx$ 20'43		evening set	7162 Dec 25 04:59	17° $\approx$ 03'17	
min. Earth dist.	7162 Jan 14 19:23	28° $\approx$ 28'27	0.67301 AU	min. Earth dist.	7162 Dec 29 07:31	12° $\approx$ 51'41	0.66253 AU
inferior conj	7162 Jan 16 02:28	26° $\approx$ 48'56	0°23'56	inferior conj	7162 Dec 31 02:06	10° $\approx$ 44'29	-0°34'26
minimum elong	7162 Jan 16 01:52	26° $\approx$ 50'52	0°23'45	minimum elong	7162 Dec 31 03:03	10° $\approx$ 41'38	0°33'57
morning rise	7162 Jan 21 17:41	20° $\approx$ 55'25		asc. node	7163 Jan 01 18:51	8° $\approx$ 45'33	
direct	7162 Jan 25 02:29	19° $\approx$ 50'12		morning rise	7163 Jan 06 01:56	5° $\approx$ 01'26	
morning max el	7162 Feb 01 01:51	23° $\approx$ 41'23	19°10'15	direct	7163 Jan 09 00:34	4° $\approx$ 12'57	
	7162 Feb 06 09:37	0° $\approx$		morning max el	7163 Jan 15 13:53	7° $\approx$ 45'15	18°25'59
greatest brilliancy	7162 Feb 14 13:23	11° $\approx$ 46'15	-0.7m		7163 Jan 31 05:43	0° $\approx$	
desc. node	7162 Feb 19 04:08	18° $\approx$ 48'51		morning set	7163 Feb 04 13:41	6° $\approx$ 54'13	
morning set	7162 Feb 24 12:34	27° $\approx$ 04'49		desc. node	7163 Feb 06 01:08	9° $\approx$ 15'22	
	7162 Feb 26 09:45	0° $\approx$			7163 Feb 19 04:25	0° $\approx$	
max. Earth dist.	7162 Mar 10 05:48	18° $\approx$ 28'56	1.45020 AU				
				superior conj	7163 Feb 20 08:41	1° $\approx$ 50'44	-1°30'45
superior conj	7162 Mar 13 04:16	23° $\approx$ 07'09	-2°00'43	minimum elong	7163 Feb 19 23:10	1° $\approx$ 13'25	1°29'43
minimum elong	7162 Mar 12 21:24	22° $\approx$ 39'55	2°00'20	max. Earth dist.	7163 Feb 21 00:49	2° $\approx$ 53'57	1.45456 AU
	7162 Mar 17 11:56	0° $\approx$		evening rise	7163 Mar 08 06:13	26° $\approx$ 48'02	
evening rise	7162 Mar 27 18:17	16° $\approx$ 41'08			7163 Mar 10 06:52	0° $\approx$	
	7162 Apr 04 20:49	0° $\approx$		greatest brilliancy	7163 Mar 18 02:31	12° $\approx$ 17'24	-0.8m
asc. node	7162 Apr 12 20:55	12° $\approx$ 04'31		asc. node	7163 Mar 30 17:58	29° $\approx$ 42'28	
evening max el	7162 Apr 16 09:23	16° $\approx$ 12'55	18°25'50	evening max el	7163 Mar 30 19:20	29° $\approx$ 45'56	19°01'28
retrograde	7162 Apr 22 20:15	19° $\approx$ 42'23			7163 Mar 31 00:57	0° $\approx$	
evening set	7162 Apr 25 22:26	18° $\approx$ 49'30		retrograde	7163 Apr 06 15:29	3° $\approx$ 36'09	
inferior conj	7162 May 01 17:55	13° $\approx$ 20'21	3°23'25	evening set	7163 Apr 10 00:59	2° $\approx$ 29'13	
minimum elong	7162 May 01 18:48	13° $\approx$ 17'44	3°23'17		7163 Apr 12 20:25	30° $\approx$ 1	
min. Earth dist.	7162 May 03 23:48	10° $\approx$ 42'58	0.64470 AU	inferior conj	7163 Apr 15 13:47	26° $\approx$ 43'37	3°25'54
morning rise	7162 May 07 14:18	7° $\approx$ 06'25		minimum elong	7163 Apr 15 13:20	26° $\approx$ 45'05	3°25'51
direct	7162 May 14 07:38	4° $\approx$ 21'08		min. Earth dist.	7163 Apr 17 04:08	24° $\approx$ 42'03	0.66075 AU
desc. node	7162 May 18 03:32	5° $\approx$ 07'22		morning rise	7163 Apr 21 01:15	20° $\approx$ 27'02	
morning max el	7162 May 27 22:32	12° $\approx$ 18'50	27°25'40	direct	7163 Apr 27 10:50	17° $\approx$ 39'42	
	7162 Jun 11 01:12	0° $\approx$		desc. node	7163 May 05 00:32	20° $\approx$ 39'10	
	7162 Jun 29 01:24	0° $\approx$		morning max el	7163 May 10 08:47	25° $\approx$ 20'02	26°28'26
morning set	7162 Jul 02 04:43	6° $\approx$ 01'49			7163 May 14 14:49	0° $\approx$	
max. Earth dist.	7162 Jul 06 22:13	15° $\approx$ 34'06	1.33269 AU		7163 Jun 04 13:11	0° $\approx$	
asc. node	7162 Jul 09 20:10	21° $\approx$ 40'50		morning set	7163 Jun 15 08:48	19° $\approx$ 10'25	
				max. Earth dist.	7163 Jun 19 10:32	26° $\approx$ 15'59	1.34708 AU
superior conj	7162 Jul 10 07:50	22° $\approx$ 42'45	0°04'59		7163 Jun 20 23:35	0° $\approx$	
minimum elong	7162 Jul 10 07:35	22° $\approx$ 41'25	0°04'52				
behind sun begin	7162 Jul 10 02:20	22° $\approx$ 13'33		superior conj	7163 Jun 24 06:01	6° $\approx$ 38'20	-0°24'50
behind sun end	7162 Jul 10 12:49	23° $\approx$ 09'19		minimum elong	7163 Jun 24 07:24	6° $\approx$ 45'30	0°24'38
	7162 Jul 13 17:28	0° $\approx$		asc. node	7163 Jun 26 17:10	11° $\approx$ 45'12	
evening rise	7162 Jul 17 11:21	8° $\approx$ 00'30		evening rise	7163 Jul 01 20:25	22° $\approx$ 29'35	
	7162 Jul 29 00:27	0° $\approx$			7163 Jul 05 12:59	0° $\approx$	
evening max el	7162 Aug 07 22:36	12° $\approx$ 57'07	22°22'47	evening max el	7163 Jul 20 20:11	23° $\approx$ 32'59	20°52'50
desc. node	7162 Aug 14 02:43	17° $\approx$ 36'57		desc. node	7163 Jul 31 23:45	29° $\approx$ 16'04	
retrograde	7162 Aug 20 21:56	19° $\approx$ 24'25		retrograde	7163 Aug 01 10:15	29° $\approx$ 16'32	
evening set	7162 Aug 24 02:33	19° $\approx$ 01'58		evening set	7163 Aug 03 14:14	29° $\approx$ 05'19	
min. Earth dist.	7162 Sep 01 05:08	15° $\approx$ 29'37	0.55016 AU	inferior conj	7163 Aug 12 20:50	25° $\approx$ 08'13	-3°26'52
inferior conj	7162 Sep 02 04:14	14° $\approx$ 57'02	-4°53'51	minimum elong	7163 Aug 12 11:59	25° $\approx$ 02'045	3°24'06
minimum elong	7162 Sep 01 20:25	15° $\approx$ 08'05	4°52'25	min. Earth dist.	7163 Aug 13 14:38	24° $\approx$ 42'56	0.54746 AU
morning rise	7162 Sep 10 16:02	11° $\approx$ 08'26		morning rise	7163 Aug 21 09:52	21° $\approx$ 09'54	
direct	7162 Sep 13 21:38	10° $\approx$ 44'50		direct	7163 Aug 25 05:56	20° $\approx$ 38'23	
morning max el	7162 Sep 25 12:12	16° $\approx$ 10'58	21°17'11	morning max el	7163 Sep 07 06:07	26° $\approx$ 51'37	22°57'38
asc. node	7162 Oct 05 19:35	29° $\approx$ 40'23			7163 Sep 10 07:13	0° $\approx$	
	7162 Oct 06 00:17	0° $\approx$		asc. node	7163 Sep 22 16:35	18° $\approx$ 30'07	
morning set	7162 Oct 15 13:27	18° $\approx$ 15'24			7163 Sep 28 13:01	0° $\approx$	
	7162 Oct 21 03:45	0° $\approx$		morning set	7163 Sep 30 00:31	3° $\approx$ 05'49	
superior conj	7162 Oct 22 20:39	3° $\approx$ 33'10	1°41'19	superior conj	7163 Oct 07 00:58	18° $\approx$ 09'09	1°41'20
minimum elong	7162 Oct 22 21:19	3° $\approx$ 36'39	1°41'21	minimum elong	7163 Oct 07 00:21	18° $\approx$ 05'53	1°41'20
max. Earth dist.	7162 Oct 27 06:27	12° $\approx$ 31'13	1.35278 AU	max. Earth dist.	7163 Oct 10 01:00	24° $\approx$ 30'27	1.33735 AU
evening rise	7162 Oct 31 10:13	20° $\approx$ 35'04			7163 Oct 12 16:59	0° $\approx$	
	7162 Nov 05 13:59	0° $\approx$		evening rise	7163 Oct 14 19:55	4° $\approx$ 15'00	
desc. node	7162 Nov 10 01:50	7° $\approx$ 40'47		desc. node	7163 Oct 27 22:52	27° $\approx$ 47'17	

	7163 Oct 29 08:06	0°♊		desc. node	7164 Oct 13 19:54	17°♊27'51	
evening max el	7163 Nov 18 08:08	25°♊54'40	27°14'57		7164 Oct 22 16:59	0°♊	
	7163 Nov 23 06:05	0°♊		evening max el	7164 Oct 30 18:58	9°♊00'56	27°28'24
retrograde	7163 Dec 01 18:32	3°♊13'52		retrograde	7164 Nov 13 12:17	16°♊18'11	
evening set	7163 Dec 08 15:28	0°♊36'21		evening set	7164 Nov 20 15:00	13°♊47'05	
	7163 Dec 09 09:31	30°♊♊		min. Earth dist.	7164 Nov 24 07:30	10°♊40'41	0.63130 AU
min. Earth dist.	7163 Dec 12 12:11	26°♊59'07	0.64853 AU	inferior conj	7164 Nov 27 01:10	7°♊59'16	-2°45'36
inferior conj	7163 Dec 14 18:35	24°♊30'23	-1°38'20	minimum elong	7164 Nov 27 06:15	7°♊46'44	2°43'37
minimum elong	7163 Dec 14 21:31	24°♊22'20	1°37'02	morning rise	7164 Dec 03 23:23	2°♊46'08	
asc. node	7163 Dec 19 15:54	19°♊53'38		asc. node	7164 Dec 05 12:57	2°♊22'52	
morning rise	7163 Dec 21 04:55	19°♊00'46		direct	7164 Dec 06 08:03	2°♊19'50	
direct	7163 Dec 23 19:24	18°♊25'14		morning max el	7164 Dec 12 23:17	5°♊45'00	17°48'28
morning max el	7163 Dec 30 06:04	21°♊49'21	17°58'34		7164 Dec 28 18:41	0°♊	
	7164 Jan 05 15:12	0°♊		morning set	7164 Dec 29 04:24	0°♊42'28	
morning set	7164 Jan 16 20:30	18°♊12'22		desc. node	7165 Jan 09 19:08	20°♊35'45	
desc. node	7164 Jan 23 22:08	29°♊52'33					
	7164 Jan 23 23:58	0°♊		superior conj	7165 Jan 10 04:07	21°♊13'03	-0°02'43
superior conj	7164 Jan 30 19:32	10°♊59'31	-0°47'47	minimum elong	7165 Jan 10 03:50	21°♊11'53	0°02'37
minimum elong	7164 Jan 30 13:53	10°♊36'58	0°46'57	behind sun begin	7165 Jan 09 18:35	20°♊33'27	
max. Earth dist.	7164 Feb 03 20:43	17°♊24'25	1.45141 AU	behind sun end	7165 Jan 10 13:06	21°♊50'15	
	7164 Feb 11 22:22	0°♊			7165 Jan 15 13:06	0°♊	
evening rise	7164 Feb 15 23:34	6°♊15'18		max. Earth dist.	7165 Jan 16 14:06	1°♊40'23	1.44122 AU
greatest brilliancy	7164 Mar 01 05:19	27°♊51'26	-0.6m	evening rise	7165 Jan 25 10:26	15°♊33'47	
	7164 Mar 02 16:30	0°♊			7165 Feb 03 23:11	0°♊	
evening max el	7164 Mar 13 00:41	13°♊22'01	19°53'14	evening max el	7165 Feb 24 00:33	26°♊59'06	20°58'44
asc. node	7164 Mar 16 15:01	16°♊23'58			7165 Feb 27 10:35	0°♊	
retrograde	7164 Mar 20 13:32	17°♊43'28		asc. node	7165 Mar 03 12:06	1°♊53'50	
evening set	7164 Mar 24 07:09	16°♊22'01		retrograde	7165 Mar 04 11:59	1°♊59'00	
inferior conj	7164 Mar 29 16:13	10°♊21'52	3°14'58	evening set	7165 Mar 08 14:58	0°♊22'41	
minimum elong	7164 Mar 29 14:43	10°♊26'54	3°14'45		7165 Mar 09 01:56	30°♊♊	
min. Earth dist.	7164 Mar 30 15:53	9°♊02'28	0.67250 AU	inferior conj	7165 Mar 13 22:37	24°♊10'32	2°53'04
morning rise	7164 Apr 03 22:01	4°♊05'31		minimum elong	7165 Mar 13 20:29	24°♊17'52	2°52'37
direct	7164 Apr 09 20:00	1°♊27'01		min. Earth dist.	7165 Mar 14 08:57	23°♊34'48	0.67985 AU
desc. node	7164 Apr 20 21:34	7°♊44'05		morning rise	7165 Mar 19 01:48	17°♊56'21	
morning max el	7164 Apr 21 18:20	8°♊35'38	25°10'34	direct	7165 Mar 24 10:13	15°♊34'28	
	7164 May 08 13:32	0°♊		morning max el	7165 Apr 04 03:22	21°♊58'02	23°42'18
	7164 May 27 02:48	0°♊		desc. node	7165 Apr 07 18:35	25°♊55'56	
morning set	7164 May 27 20:47	1°♊20'16			7165 Apr 11 02:56	0°♊	
max. Earth dist.	7164 May 31 12:22	8°♊00'27	1.36576 AU	morning set	7165 May 01 20:38	0°♊	
				max. Earth dist.	7165 May 09 11:09	12°♊31'42	
superior conj	7164 Jun 06 18:45	20°♊02'38	-0°55'57		7165 May 13 08:06	19°♊14'20	1.38737 AU
minimum elong	7164 Jun 06 22:03	20°♊18'58	0°55'26		7165 May 19 06:44	0°♊	
	7164 Jun 11 17:50	0°♊		superior conj	7165 May 20 18:25	2°♊46'49	-1°26'08
asc. node	7164 Jun 12 14:12	1°♊43'20		minimum elong	7165 May 20 23:25	3°♊10'22	1°25'30
evening rise	7164 Jun 15 01:01	6°♊41'25		evening rise	7165 May 29 22:24	20°♊28'33	
	7164 Jun 28 04:08	0°♊		asc. node	7165 May 30 11:14	21°♊31'05	
evening max el	7164 Jul 02 06:44	4°♊50'07	19°40'36		7165 Jun 03 21:53	0°♊	
retrograde	7164 Jul 12 03:51	9°♊41'47		evening max el	7165 Jun 15 05:18	16°♊51'07	18°48'54
evening set	7164 Jul 14 00:39	9°♊32'08		retrograde	7165 Jun 23 13:01	20°♊57'34	
desc. node	7164 Jul 17 20:48	8°♊17'57		evening set	7165 Jun 25 13:45	20°♊43'49	
inferior conj	7164 Jul 22 20:44	5°♊28'53	-1°31'03	inferior conj	7165 Jul 03 15:00	16°♊24'16	0°19'59
minimum elong	7164 Jul 22 16:34	5°♊35'25	1°29'31	minimum elong	7165 Jul 03 15:46	16°♊22'51	0°19'38
min. Earth dist.	7164 Jul 25 02:55	4°♊04'20	0.55433 AU	desc. node	7165 Jul 04 17:51	15°♊35'17	
morning rise	7164 Jul 31 06:14	1°♊01'07		min. Earth dist.	7165 Jul 06 19:13	14°♊06'53	0.56950 AU
direct	7164 Aug 04 20:59	0°♊13'51		morning rise	7165 Jul 11 14:21	11°♊19'39	
morning max el	7164 Aug 18 19:17	7°♊10'06	24°42'37	direct	7165 Jul 17 02:19	10°♊06'15	
	7164 Sep 04 09:31	0°♊		morning max el	7165 Jul 31 10:04	17°♊34'18	26°15'57
asc. node	7164 Sep 08 13:35	7°♊48'17			7165 Aug 10 17:12	0°♊	
morning set	7164 Sep 13 12:15	17°♊56'24		asc. node	7165 Aug 26 10:36	27°♊27'16	
	7164 Sep 19 01:31	0°♊			7165 Aug 27 16:11	0°♊	
				morning set	7165 Aug 28 23:04	2°♊42'30	
superior conj	7164 Sep 20 09:48	2°♊56'44	1°35'11				
minimum elong	7164 Sep 20 08:14	2°♊48'08	1°35'04	superior conj	7165 Sep 04 21:06	17°♊49'22	1°23'35
max. Earth dist.	7164 Sep 22 03:33	6°♊43'57	1.32625 AU	minimum elong	7165 Sep 04 18:58	17°♊37'33	1°23'18
evening rise	7164 Sep 27 15:57	18°♊22'54		max. Earth dist.	7165 Sep 05 11:49	19°♊10'42	1.31966 AU
	7164 Oct 03 14:28	0°♊			7165 Sep 10 11:04	0°♊	

evening rise	7165 Sep 11 19:21	2°♌50'41		max. Earth dist.	7166 Aug 19 22:27	1°♏41'50	1.31749 AU
	7165 Sep 26 10:20	0°♌		evening rise	7166 Aug 27 03:34	17°♏29'51	
desc. node	7165 Sep 30 16:57	6°♌32'00			7166 Sep 02 07:14	0°♌	
evening max el	7165 Oct 13 01:37	21°♌30'19	27°09'39	desc. node	7166 Sep 17 14:00	24°♌44'32	
retrograde	7165 Oct 26 22:41	28°♌42'06			7166 Sep 21 22:42	0°♌	
evening set	7165 Nov 02 23:54	26°♌28'40		evening max el	7166 Sep 25 01:31	3°♌11'58	26°17'18
min. Earth dist.	7165 Nov 06 16:21	23°♌44'56	0.61163 AU	retrograde	7166 Oct 08 23:55	10°♌17'44	
inferior conj	7165 Nov 09 18:41	21°♌03'30	-3°51'56	evening set	7166 Oct 15 13:24	8°♌33'01	
minimum elong	7165 Nov 10 01:24	20°♌48'53	3°49'50	min. Earth dist.	7166 Oct 19 14:46	5°♌58'25	0.59085 AU
morning rise	7165 Nov 17 05:07	16°♌09'52		inferior conj	7166 Oct 22 19:37	3°♌33'13	-4°49'31
direct	7165 Nov 19 11:02	15°♌49'12		minimum elong	7166 Oct 23 02:06	3°♌20'54	4°48'11
asc. node	7165 Nov 22 10:00	16°♌26'28			7166 Oct 28 04:21	30°♌♌	
morning max el	7165 Nov 26 14:18	19°♌24'00	17°56'41	morning rise	7166 Oct 30 17:02	29°♌01'46	
	7165 Dec 04 08:41	0°♌		direct	7166 Nov 02 00:11	28°♌43'36	
morning set	7165 Dec 12 06:54	14°♌05'12			7166 Nov 06 13:52	0°♌	
	7165 Dec 21 01:57	0°♌		asc. node	7166 Nov 09 07:01	1°♌58'10	
				morning max el	7166 Nov 09 23:37	2°♌36'38	18°24'49
superior conj	7165 Dec 22 14:37	2°♌40'59	0°36'27	morning set	7166 Nov 25 22:28	28°♌04'22	
minimum elong	7165 Dec 22 17:30	2°♌53'35	0°36'06		7166 Nov 26 22:35	0°♌	
desc. node	7165 Dec 27 16:10	11°♌21'41					
max. Earth dist.	7165 Dec 30 03:12	15°♌27'29	1.42525 AU	superior conj	7166 Dec 04 23:53	15°♌14'18	1°06'20
evening rise	7166 Jan 05 06:23	25°♌21'53		minimum elong	7166 Dec 05 03:28	15°♌30'48	1°05'58
	7166 Jan 08 05:23	0°♌		max. Earth dist.	7166 Dec 12 11:51	28°♌36'34	1.40533 AU
	7166 Jan 28 21:21	0°♌			7166 Dec 13 07:19	0°♌	
evening max el	7166 Feb 06 19:20	10°♌38'10	22°14'04	desc. node	7166 Dec 14 13:10	2°♌06'49	
retrograde	7166 Feb 16 08:57	16°♌18'50		evening rise	7166 Dec 16 21:54	6°♌03'52	
asc. node	7166 Feb 18 09:10	15°♌58'01			7167 Jan 01 08:57	0°♌	
evening set	7166 Feb 20 22:44	14°♌27'21		evening max el	7167 Jan 20 10:26	24°♌20'34	23°33'58
inferior conj	7166 Feb 26 06:53	8°♌06'14	2°21'46		7167 Jan 28 01:09	0°♌	
minimum elong	7166 Feb 26 04:35	8°♌14'16	2°21'07	retrograde	7167 Jan 31 03:00	0°♌39'11	
min. Earth dist.	7166 Feb 26 04:59	8°♌12'49	0.68299 AU		7167 Feb 02 23:48	30°♌♌	
morning rise	7166 Mar 03 10:15	1°♌55'50		evening set	7167 Feb 05 04:55	28°♌32'41	
	7166 Mar 07 04:53	30°♌♌		asc. node	7167 Feb 05 06:14	28°♌29'53	
direct	7166 Mar 08 04:28	29°♌55'07		min. Earth dist.	7167 Feb 10 01:42	22°♌52'11	0.68211 AU
	7166 Mar 09 04:38	0°♌		inferior conj	7167 Feb 10 15:08	22°♌06'13	1°42'03
morning max el	7166 Mar 17 14:34	5°♌27'08	22°13'28	minimum elong	7167 Feb 10 13:06	22°♌13'11	1°41'22
desc. node	7166 Mar 25 15:35	14°♌55'58		morning rise	7167 Feb 15 21:14	16°♌01'08	
	7166 Apr 05 10:03	0°♌		direct	7167 Feb 20 01:35	14°♌23'08	
morning set	7166 Apr 19 22:31	22°♌25'59		morning max el	7167 Feb 28 07:42	19°♌07'19	20°52'05
	7166 Apr 24 12:48	0°♌			7167 Mar 09 06:36	0°♌	
max. Earth dist.	7166 Apr 25 05:33	1°♌10'19	1.40958 AU	desc. node	7167 Mar 12 12:34	4°♌30'55	
					7167 Mar 29 13:48	0°♌	
superior conj	7166 May 03 00:32	14°♌39'59	-1°51'53	morning set	7167 Mar 30 07:24	1°♌08'35	
minimum elong	7166 May 03 05:59	15°♌04'17	1°51'27	max. Earth dist.	7167 Apr 07 10:09	14°♌03'34	1.42945 AU
	7166 May 11 09:36	0°♌					
evening rise	7166 May 13 09:05	3°♌41'45		superior conj	7167 Apr 14 08:20	25°♌31'46	-2°08'13
asc. node	7166 May 17 08:17	11°♌03'10		minimum elong	7167 Apr 14 11:22	25°♌44'34	2°08'09
evening max el	7166 May 29 12:20	29°♌27'30	18°17'31		7167 Apr 16 23:21	0°♌	
	7166 May 30 02:04	0°♌		evening rise	7167 Apr 26 04:55	16°♌11'46	
retrograde	7166 Jun 05 17:08	3°♌03'47		asc. node	7167 May 04 05:20	0°♌14'07	
evening set	7166 Jun 08 01:12	2°♌41'52			7167 May 04 01:58	0°♌	
	7166 Jun 12 20:47	30°♌♌		evening max el	7167 May 13 00:07	12°♌29'59	18°05'50
inferior conj	7166 Jun 15 06:51	28°♌01'49	1°45'59	retrograde	7167 May 19 13:54	15°♌52'23	
minimum elong	7166 Jun 15 09:53	27°♌55'22	1°44'57	evening set	7167 May 22 05:12	15°♌19'38	
min. Earth dist.	7166 Jun 18 16:46	25°♌09'15	0.59004 AU	inferior conj	7167 May 28 18:24	10°♌19'10	2°42'50
desc. node	7166 Jun 21 14:54	23°♌01'55		minimum elong	7167 May 28 21:20	10°♌11'56	2°42'06
morning rise	7166 Jun 22 15:28	22°♌25'23		min. Earth dist.	7167 May 31 21:50	7°♌15'18	0.61243 AU
direct	7166 Jun 28 21:25	20°♌39'47		morning rise	7167 Jun 04 11:18	4°♌20'51	
morning max el	7166 Jul 13 06:30	28°♌27'39	27°22'35	desc. node	7167 Jun 08 11:55	2°♌26'05	
	7166 Jul 14 18:47	0°♌		direct	7167 Jun 11 03:50	2°♌04'49	
	7166 Aug 04 11:28	0°♌		morning max el	7167 Jun 25 09:37	10°♌03'41	27°53'08
morning set	7166 Aug 13 07:14	17°♌18'01			7167 Jul 10 21:03	0°♌	
asc. node	7166 Aug 13 07:37	17°♌20'01			7167 Jul 27 15:51	0°♌	
	7166 Aug 19 04:02	0°♌		morning set	7167 Jul 28 10:54	1°♌37'34	
				asc. node	7167 Jul 31 04:37	7°♌21'32	
superior conj	7166 Aug 20 08:55	2°♌39'48	1°07'02	max. Earth dist.	7167 Aug 03 07:36	14°♌06'02	1.31976 AU
minimum elong	7166 Aug 20 06:40	2°♌27'20	1°06'37				

superior conj	7167 Aug 04 19:28	17°Ω22'31	0°45'59	superior conj	7168 Jul 19 02:57	1°Ω52'07	0°20'57
minimum elong	7167 Aug 04 17:35	17°Ω12'13	0°45'34	minimum elong	7168 Jul 19 01:57	1°Ω46'46	0°20'41
	7167 Aug 10 13:36	0°൬		evening rise	7168 Jul 26 02:13	16°Ω56'56	
evening rise	7167 Aug 11 14:29	2°൬13'51			7168 Aug 01 12:22	0°൬	
	7167 Aug 26 12:15	0°Ω		evening max el	7168 Aug 18 05:05	24°൬23'21	23°19'15
desc. node	7167 Sep 04 11:02	11°Ω45'01		desc. node	7168 Aug 21 08:05	27°൬06'12	
evening max el	7167 Sep 06 17:27	14°Ω03'50	24°56'12		7168 Aug 26 05:19	0°Ω	
retrograde	7167 Sep 20 14:15	21°Ω03'24		retrograde	7168 Aug 31 16:41	1°Ω08'30	
evening set	7167 Sep 26 03:01	19°Ω54'21		evening set	7168 Sep 04 17:47	0°Ω32'39	
min. Earth dist.	7167 Oct 01 04:44	17°Ω10'44	0.57120 AU		7168 Sep 06 08:24	30°κ൬	
inferior conj	7167 Oct 04 00:53	15°Ω18'54	-5°25'06	min. Earth dist.	7168 Sep 11 14:25	27°൬22'01	0.55576 AU
minimum elong	7167 Oct 04 03:36	15°Ω14'25	5°24'53	inferior conj	7168 Sep 13 10:18	26°൬17'39	-5°20'37
morning rise	7167 Oct 12 06:27	11°Ω10'21		minimum elong	7168 Sep 13 06:02	26°൬23'56	5°20'13
direct	7167 Oct 14 19:20	10°Ω52'00		morning rise	7168 Sep 21 20:33	22°൬26'00	
morning max el	7167 Oct 23 23:43	15°Ω12'58	19°14'31	direct	7168 Sep 24 18:56	22°൬05'16	
asc. node	7167 Oct 27 04:02	18°Ω43'46		morning max el	7168 Oct 05 11:54	27°൬05'05	20°26'29
	7167 Nov 03 10:44	0°ℓ			7168 Oct 08 06:26	0°Ω	
morning set	7167 Nov 09 22:55	12°ℓ27'46		asc. node	7168 Oct 13 01:03	6°Ω28'12	
				morning set	7168 Oct 24 05:18	27°Ω07'10	
superior conj	7167 Nov 18 02:44	28°ℓ38'10	1°26'38		7168 Oct 25 14:53	0°ℓ	
minimum elong	7167 Nov 18 05:34	28°ℓ51'52	1°26'27	superior conj	7168 Oct 31 18:26	12°ℓ39'20	1°38'12
	7167 Nov 18 19:40	0°♁		minimum elong	7168 Oct 31 19:55	12°ℓ46'52	1°38'10
max. Earth dist.	7167 Nov 24 17:32	11°♁04'18	1.38383 AU	max. Earth dist.	7168 Nov 06 00:34	23°ℓ03'24	1.36329 AU
evening rise	7167 Nov 28 11:40	17°♁45'06		evening rise	7168 Nov 09 21:40	0°♁21'05	
desc. node	7167 Dec 01 10:09	22°♁47'14			7168 Nov 09 17:05	0°♁	
	7167 Dec 05 19:12	0°♁		desc. node	7168 Nov 17 07:11	13°♁19'06	
	7167 Dec 26 18:08	0°≈			7168 Nov 27 23:21	0°♁	
evening max el	7168 Jan 02 23:34	8°≈05'29	24°52'05	evening max el	7168 Dec 15 12:25	21°♁51'07	26°01'19
retrograde	7168 Jan 14 17:05	14°≈54'51		retrograde	7168 Dec 28 02:28	29°♁00'43	
evening set	7168 Jan 20 07:56	12°≈34'33		evening set	7169 Jan 03 06:09	26°♁29'33	
asc. node	7168 Jan 23 03:17	9°≈39'45		min. Earth dist.	7169 Jan 07 12:10	21°♁58'03	0.66900 AU
min. Earth dist.	7168 Jan 24 20:49	7°≈28'25	0.67740 AU	inferior conj	7169 Jan 09 00:13	20°♁05'44	-0°00'05
inferior conj	7168 Jan 25 21:31	6°≈06'57	0°54'32	minimum elong	7169 Jan 09 00:13	20°♁05'44	0°00'00
minimum elong	7168 Jan 25 20:14	6°≈11'09	0°54'06	transit middle	7169 Jan 09 00:13	20°♁05'44	0°00'00
morning rise	7168 Jan 31 08:46	0°≈08'51		transit begin	7169 Jan 08 21:22	20°♁14'38	
	7168 Jan 31 13:59	30°κ♁		transit end	7169 Jan 09 03:04	19°♁56'51	
direct	7168 Feb 04 00:16	28°♁52'32		asc. node	7169 Jan 09 00:18	20°♁05'27	
	7168 Feb 07 15:38	0°≈		morning rise	7169 Jan 14 18:52	14°♁16'35	
morning max el	7168 Feb 11 08:45	2°≈59'26	19°43'10	direct	7169 Jan 17 23:03	13°♁19'06	
greatest brilliancy	7168 Feb 24 04:27	19°≈44'22	-0.6m	morning max el	7169 Jan 24 17:21	17°♁00'58	18°49'25
desc. node	7168 Feb 27 09:32	24°≈30'46			7169 Feb 03 15:44	0°≈	
	7168 Mar 02 00:44	0°✕		desc. node	7169 Feb 13 06:31	14°≈49'03	
morning set	7168 Mar 08 04:13	9°✕24'24		morning set	7169 Feb 15 13:46	18°≈25'08	
max. Earth dist.	7168 Mar 19 21:53	27°✕44'21	1.44443 AU		7169 Feb 22 23:27	0°✕	
	7168 Mar 21 07:59	0°Υ		max. Earth dist.	7169 Mar 02 14:32	11°✕56'19	1.45293 AU
superior conj	7168 Mar 24 14:54	5°Υ16'32	-2°09'08	superior conj	7169 Mar 04 00:48	14°✕10'47	-1°50'13
minimum elong	7168 Mar 24 11:53	5°Υ04'22	2°09'04	minimum elong	7169 Mar 03 15:56	13°✕35'59	1°49'29
evening rise	7168 Apr 07 05:13	27°Υ48'17			7169 Mar 14 00:30	0°Υ	
	7168 Apr 08 12:19	0°♁		evening rise	7169 Mar 19 06:30	8°Υ26'19	
asc. node	7168 Apr 20 02:23	18°♁56'16		greatest brilliancy	7169 Mar 25 08:17	18°Υ15'16	-0.9m
evening max el	7168 Apr 25 13:15	25°♁49'09	18°13'13		7169 Apr 01 20:13	0°♁	
retrograde	7168 May 01 22:39	29°♁12'33		asc. node	7169 Apr 06 23:25	7°♁00'43	
evening set	7168 May 04 20:48	28°♁27'23		evening max el	7169 Apr 09 01:00	9°♁18'24	18°38'55
inferior conj	7168 May 10 21:36	23°♁08'06	3°14'29	retrograde	7169 Apr 15 15:03	12°♁55'39	
minimum elong	7168 May 10 23:20	23°♁03'18	3°14'12	evening set	7169 Apr 18 20:10	11°♁57'02	
min. Earth dist.	7168 May 13 12:07	20°♁15'46	0.63369 AU	inferior conj	7169 Apr 24 12:25	6°♁20'42	3°26'17
morning rise	7168 May 17 00:35	16°♁57'32		minimum elong	7169 Apr 24 12:42	6°♁19'49	3°26'15
direct	7168 May 23 19:31	14°♁19'30		min. Earth dist.	7169 Apr 26 11:42	3°♁57'06	0.65197 AU
desc. node	7168 May 25 08:56	14°♁27'07		morning rise	7169 Apr 30 04:34	0°♁04'51	
morning max el	7168 Jun 06 17:43	22°♁21'16	27°45'46		7169 Apr 30 06:51	30°κΥ	
	7168 Jun 13 10:59	0°Π		direct	7169 May 06 19:07	27°Υ17'04	
	7168 Jul 03 02:07	0°☾		desc. node	7169 May 12 05:57	28°Υ50'48	
morning set	7168 Jul 11 07:52	15°☾34'56			7169 May 14 03:18	0°♁	
max. Earth dist.	7168 Jul 16 11:20	26°☾11'39	1.32657 AU	morning max el	7169 May 20 03:56	5°♁10'06	27°04'29
asc. node	7168 Jul 17 01:38	27°☾27'33			7169 Jun 08 01:52	0°Π	
	7168 Jul 18 06:08	0°Ω					

morning set	7169 Jun 24 19:10	29° $\Pi$ 01'12		morning max el	7170 May 02 13:49	18° $\Upsilon$ 17'55	25°57'13
	7169 Jun 25 07:19	0° $\mathfrak{C}$			7170 May 12 10:12	0° $\mathfrak{C}$	
max. Earth dist.	7169 Jun 29 05:46	7° $\mathfrak{C}$ 48'45	1.33815 AU		7170 Jun 01 02:11	0° $\Pi$	
superior conj	7169 Jul 03 05:14	16° $\mathfrak{C}$ 02'04	-0°07'24	morning set	7170 Jun 07 17:02	11° $\Pi$ 45'50	
minimum elong	7169 Jul 03 05:38	16° $\mathfrak{C}$ 04'09	0°07'24	max. Earth dist.	7170 Jun 11 13:00	18° $\Pi$ 59'05	1.35448 AU
behind sun begin	7169 Jul 03 00:36	15° $\mathfrak{C}$ 37'46		superior conj	7170 Jun 16 23:50	29° $\Pi$ 45'36	-0°37'58
behind sun end	7169 Jul 03 10:40	16° $\mathfrak{C}$ 30'34		minimum elong	7170 Jun 17 02:01	29° $\Pi$ 56'41	0°37'37
asc. node	7169 Jul 03 22:38	17° $\mathfrak{C}$ 33'36			7170 Jun 17 02:41	0° $\mathfrak{C}$	
	7169 Jul 09 19:15	0° $\Omega$		asc. node	7170 Jun 20 19:40	7° $\mathfrak{C}$ 35'54	
evening rise	7169 Jul 10 12:51	1° $\Omega$ 32'38		evening rise	7170 Jun 24 20:19	15° $\mathfrak{C}$ 55'06	
	7169 Jul 26 16:34	0° $\mathfrak{M}$			7170 Jul 02 01:08	0° $\Omega$	
evening max el	7169 Jul 30 20:52	4° $\mathfrak{M}$ 44'07	21°42'51	evening max el	7170 Jul 12 23:59	15° $\Omega$ 36'55	20°19'49
desc. node	7169 Aug 08 05:08	10° $\mathfrak{M}$ 14'40		retrograde	7170 Jul 23 20:46	20° $\Omega$ 57'51	
retrograde	7169 Aug 12 08:12	10° $\mathfrak{M}$ 55'11		evening set	7170 Jul 25 19:48	20° $\Omega$ 48'10	
evening set	7169 Aug 14 23:52	10° $\mathfrak{M}$ 39'17		desc. node	7170 Jul 26 02:11	20° $\Omega$ 45'25	
inferior conj	7169 Aug 24 05:37	6° $\mathfrak{M}$ 39'11	-4°22'35	inferior conj	7170 Aug 03 23:36	16° $\Omega$ 50'35	-2°39'18
minimum elong	7169 Aug 23 20:27	6° $\mathfrak{M}$ 52'01	4°20'21	minimum elong	7170 Aug 03 16:20	17° $\Omega$ 01'13	2°36'46
min. Earth dist.	7169 Aug 23 23:39	6° $\mathfrak{M}$ 47'32	0.54778 AU	min. Earth dist.	7170 Aug 05 10:23	15° $\Omega$ 59'43	0.54925 AU
morning rise	7169 Sep 01 18:13	2° $\mathfrak{M}$ 48'47		morning rise	7170 Aug 12 11:52	12° $\Omega$ 41'29	
direct	7169 Sep 05 05:16	2° $\mathfrak{M}$ 22'36		direct	7170 Aug 16 15:36	12° $\Omega$ 04'11	
morning max el	7169 Sep 17 11:38	8° $\mathfrak{M}$ 09'25	21°58'24	morning max el	7170 Aug 30 02:34	18° $\Omega$ 37'02	23°42'28
asc. node	7169 Sep 29 22:02	24° $\mathfrak{M}$ 57'05			7170 Sep 08 12:08	0° $\mathfrak{M}$	
	7169 Oct 02 16:41	0° $\underline{\mathfrak{A}}$		asc. node	7170 Sep 16 19:04	13° $\mathfrak{M}$ 59'50	
morning set	7169 Oct 08 15:12	11° $\underline{\mathfrak{A}}$ 54'44		morning set	7170 Sep 23 02:45	26° $\mathfrak{M}$ 45'27	
					7170 Sep 24 15:11	0° $\underline{\mathfrak{A}}$	
superior conj	7169 Oct 15 19:02	27° $\underline{\mathfrak{A}}$ 05'03	1°42'08	superior conj	7170 Sep 30 01:34	11° $\underline{\mathfrak{A}}$ 46'32	1°39'25
minimum elong	7169 Oct 15 19:08	27° $\underline{\mathfrak{A}}$ 05'34	1°42'09	minimum elong	7170 Sep 30 00:30	11° $\underline{\mathfrak{A}}$ 40'47	1°39'23
	7169 Oct 17 04:28	0° $\mathfrak{M}$		max. Earth dist.	7170 Oct 02 12:04	17° $\underline{\mathfrak{A}}$ 00'24	1.33216 AU
max. Earth dist.	7169 Oct 19 13:57	4° $\mathfrak{M}$ 55'57	1.34570 AU	evening rise	7170 Oct 07 14:26	27° $\underline{\mathfrak{A}}$ 33'39	
evening rise	7169 Oct 23 23:53	13° $\mathfrak{M}$ 40'40			7170 Oct 08 19:52	0° $\mathfrak{M}$	
	7169 Nov 02 00:20	0° $\mathfrak{X}$		desc. node	7170 Oct 22 01:15	23° $\mathfrak{M}$ 32'36	
desc. node	7169 Nov 04 04:13	3° $\mathfrak{X}$ 36'25			7170 Oct 26 06:21	0° $\mathfrak{X}$	
	7169 Nov 22 21:02	0° $\mathfrak{Z}$		evening max el	7170 Nov 10 13:55	18° $\mathfrak{X}$ 53'18	27°24'21
evening max el	7169 Nov 28 01:28	5° $\mathfrak{Z}$ 30'33	26°54'31	retrograde	7170 Nov 24 03:53	26° $\mathfrak{X}$ 11'48	
retrograde	7169 Dec 11 06:20	12° $\mathfrak{Z}$ 49'08		evening set	7170 Dec 01 03:48	23° $\mathfrak{X}$ 36'13	
evening set	7169 Dec 17 21:36	10° $\mathfrak{Z}$ 12'08		min. Earth dist.	7170 Dec 04 22:35	20° $\mathfrak{X}$ 12'22	0.64158 AU
min. Earth dist.	7169 Dec 21 21:32	6° $\mathfrak{Z}$ 15'09	0.65698 AU	inferior conj	7170 Dec 07 09:47	17° $\mathfrak{X}$ 37'14	-2°06'38
inferior conj	7169 Dec 23 21:07	3° $\mathfrak{Z}$ 57'47	-1°00'58	minimum elong	7170 Dec 07 13:38	17° $\mathfrak{X}$ 27'06	2°05'01
minimum elong	7169 Dec 23 22:53	3° $\mathfrak{Z}$ 52'42	1°00'08	asc. node	7170 Dec 13 18:25	12° $\mathfrak{X}$ 21'04	
asc. node	7169 Dec 26 21:21	0° $\mathfrak{Z}$ 42'07		morning rise	7170 Dec 14 01:01	12° $\mathfrak{X}$ 13'53	
	7169 Dec 27 15:42	30° $\mathfrak{R}$ $\mathfrak{X}$		direct	7170 Dec 16 12:43	11° $\mathfrak{X}$ 42'41	
morning rise	7169 Dec 30 01:13	28° $\mathfrak{X}$ 19'59		morning max el	7170 Dec 23 00:25	15° $\mathfrak{X}$ 06'19	17°52'00
direct	7170 Jan 01 20:00	27° $\mathfrak{X}$ 37'37			7171 Jan 02 13:20	0° $\mathfrak{Z}$	
	7170 Jan 07 02:59	0° $\mathfrak{Z}$		morning set	7171 Jan 08 21:56	10° $\mathfrak{Z}$ 43'45	
morning max el	7170 Jan 08 07:29	1° $\mathfrak{Z}$ 05'36	18°12'09	desc. node	7171 Jan 18 00:32	26° $\mathfrak{Z}$ 00'06	
morning set	7170 Jan 27 03:38	28° $\mathfrak{Z}$ 52'32			7171 Jan 20 11:07	0° $\approx$	
	7170 Jan 27 20:16	0° $\approx$					
desc. node	7170 Jan 31 03:32	5° $\approx$ 20'19		superior conj	7171 Jan 22 00:20	2° $\approx$ 31'06	-0°28'18
superior conj	7170 Feb 11 05:33	22° $\approx$ 58'39	-1°13'28	minimum elong	7171 Jan 21 21:06	2° $\approx$ 17'59	0°27'47
minimum elong	7170 Feb 10 21:05	22° $\approx$ 25'22	1°12'25	max. Earth dist.	7171 Jan 27 04:57	10° $\approx$ 49'50	1.44793 AU
max. Earth dist.	7170 Feb 13 09:43	26° $\approx$ 23'26	1.45411 AU	evening rise	7171 Feb 06 22:07	27° $\approx$ 31'21	
	7170 Feb 15 17:03	0° $\mathfrak{H}$			7171 Feb 08 12:55	0° $\mathfrak{H}$	
evening rise	7170 Feb 27 09:25	18° $\mathfrak{H}$ 12'41			7171 Mar 01 00:43	0° $\Upsilon$	
	7170 Mar 06 23:27	0° $\Upsilon$		evening max el	7171 Mar 06 12:22	6° $\Upsilon$ 29'45	20°19'42
greatest brilliancy	7170 Mar 11 08:20	6° $\Upsilon$ 41'56	-0.7m	asc. node	7171 Mar 11 17:32	10° $\Upsilon$ 29'00	
evening max el	7170 Mar 23 09:12	22° $\Upsilon$ 53'02	19°21'44	retrograde	7171 Mar 14 10:02	11° $\Upsilon$ 06'24	
asc. node	7170 Mar 24 20:28	24° $\Upsilon$ 16'17		evening set	7171 Mar 18 07:34	9° $\Upsilon$ 38'37	
retrograde	7170 Mar 30 11:43	26° $\Upsilon$ 55'26		inferior conj	7171 Mar 23 15:46	3° $\Upsilon$ 33'16	3°06'54
evening set	7170 Apr 03 00:30	25° $\Upsilon$ 42'33		minimum elong	7171 Mar 23 13:58	3° $\Upsilon$ 39'27	3°06'35
inferior conj	7170 Apr 08 11:25	19° $\Upsilon$ 50'46	3°22'44	min. Earth dist.	7171 Mar 24 09:38	2° $\Upsilon$ 32'27	0.67620 AU
minimum elong	7170 Apr 08 10:28	19° $\Upsilon$ 53'51	3°22'38		7171 Mar 26 08:15	30° $\mathfrak{R}$ $\mathfrak{H}$	
min. Earth dist.	7170 Apr 09 19:28	18° $\Upsilon$ 06'21	0.66627 AU	morning rise	7171 Mar 28 20:08	27° $\mathfrak{H}$ 17'52	
morning rise	7170 Apr 13 20:04	13° $\Upsilon$ 33'58		direct	7171 Apr 03 12:37	24° $\mathfrak{H}$ 45'35	
direct	7170 Apr 20 01:12	10° $\Upsilon$ 48'51			7171 Apr 13 07:20	0° $\Upsilon$	
desc. node	7170 Apr 29 02:59	15° $\Upsilon$ 05'31		morning max el	7171 Apr 14 22:43	1° $\Upsilon$ 35'37	24°33'40

desc. node	7171 Apr 16 00:00	2° $\Upsilon$ 41'07		morning rise	7172 Mar 12 02:11	11° $\Upsilon$ 12'43	
	7171 May 06 10:52	0° $\text{B}$		direct	7172 Mar 17 04:33	8° $\text{B}$ 59'42	
morning set	7171 May 20 20:27	23° $\text{B}$ 34'33		morning max el	7172 Mar 27 08:21	15° $\text{B}$ 00'59	23°04'03
	7171 May 24 10:45	0° $\text{II}$		desc. node	7172 Apr 01 21:00	21° $\text{B}$ 15'19	
max. Earth dist.	7171 May 24 11:25	0° $\text{II}$ 03'01	1.37474 AU		7172 Apr 08 13:15	0° $\Upsilon$	
					7172 Apr 28 10:13	0° $\text{B}$	
superior conj	7171 May 31 07:29	12° $\text{II}$ 53'36	-1°09'03	morning set	7172 Apr 30 23:46	4° $\text{B}$ 13'41	
minimum elong	7171 May 31 11:35	13° $\text{II}$ 13'27	1°08'26	max. Earth dist.	7172 May 05 07:31	11° $\text{B}$ 33'31	1.39701 AU
asc. node	7171 Jun 07 16:41	27° $\text{II}$ 29'47					
evening rise	7171 Jun 08 22:10	29° $\text{II}$ 56'47		superior conj	7172 May 13 00:13	25° $\text{B}$ 16'49	-1°37'52
	7171 Jun 08 22:49	0° $\text{B}$		minimum elong	7172 May 13 05:39	25° $\text{B}$ 41'49	1°37'16
evening max el	7171 Jun 25 15:56	27° $\text{B}$ 12'23	19°16'04		7172 May 15 13:13	0° $\text{II}$	
	7171 Jun 29 03:44	0° $\Omega$		evening rise	7172 May 22 15:27	13° $\text{II}$ 30'21	
retrograde	7171 Jul 04 19:50	1° $\Omega$ 43'06		asc. node	7172 May 24 13:43	17° $\text{II}$ 11'11	
evening set	7171 Jul 06 17:44	1° $\Omega$ 32'08			7172 May 31 16:41	0° $\text{B}$	
	7171 Jul 10 22:50	30° $\text{R}$ $\text{B}$		evening max el	7172 Jun 07 18:25	9° $\text{B}$ 28'21	18°32'58
desc. node	7171 Jul 12 23:15	28° $\text{B}$ 51'11		retrograde	7172 Jun 15 13:18	13° $\text{B}$ 20'20	
inferior conj	7171 Jul 15 06:16	27° $\text{B}$ 22'37	-0°41'43	evening set	7172 Jun 17 16:59	13° $\text{B}$ 03'32	
minimum elong	7171 Jul 15 04:26	27° $\text{B}$ 25'39	0°41'04	inferior conj	7172 Jun 25 09:37	8° $\text{B}$ 35'03	1°00'08
min. Earth dist.	7171 Jul 17 23:49	25° $\text{B}$ 34'24	0.55995 AU	minimum elong	7172 Jun 25 11:42	8° $\text{B}$ 30'59	0°59'19
morning rise	7171 Jul 23 12:17	22° $\text{B}$ 39'42		min. Earth dist.	7172 Jun 28 17:54	6° $\text{B}$ 00'10	0.57779 AU
direct	7171 Jul 28 12:14	21° $\text{B}$ 42'31		desc. node	7172 Jun 28 20:18	5° $\text{B}$ 55'45	
morning max el	7171 Aug 11 15:28	28° $\text{B}$ 52'55	25°24'47	morning rise	7172 Jul 03 03:02	3° $\text{B}$ 15'39	
	7171 Aug 12 18:43	0° $\Omega$		direct	7172 Jul 08 23:07	1° $\text{B}$ 49'14	
	7171 Sep 01 21:55	0° $\text{B}$		morning max el	7172 Jul 23 08:28	9° $\text{B}$ 26'47	26°48'29
asc. node	7171 Sep 03 16:06	3° $\text{B}$ 27'24			7172 Aug 08 00:18	0° $\Omega$	
morning set	7171 Sep 07 14:19	11° $\text{B}$ 34'26		asc. node	7172 Aug 20 13:05	23° $\Omega$ 12'29	
				morning set	7172 Aug 22 00:11	26° $\Omega$ 16'16	
					7172 Aug 23 18:04	0° $\text{B}$	
superior conj	7171 Sep 14 11:41	26° $\text{B}$ 36'31	1°30'53				
minimum elong	7171 Sep 14 09:49	26° $\text{B}$ 26'15	1°30'43	superior conj	7172 Aug 28 23:22	11° $\text{B}$ 28'14	1°17'07
max. Earth dist.	7171 Sep 15 17:40	29° $\text{B}$ 21'04	1.32294 AU	minimum elong	7172 Aug 28 21:07	11° $\text{B}$ 15'49	1°16'48
	7171 Sep 16 00:47	0° $\text{B}$		max. Earth dist.	7172 Aug 29 03:26	11° $\text{B}$ 50'49	1.31814 AU
evening rise	7171 Sep 21 13:56	11° $\text{B}$ 50'43		evening rise	7172 Sep 04 19:36	26° $\text{B}$ 23'25	
	7171 Oct 01 00:29	0° $\text{B}$			7172 Sep 06 13:04	0° $\text{B}$	
desc. node	7171 Oct 08 22:18	12° $\text{B}$ 59'07			7172 Sep 23 14:13	0° $\text{B}$	
	7171 Oct 22 04:31	0° $\text{B}$		desc. node	7172 Sep 24 19:21	1° $\text{B}$ 43'21	
evening max el	7171 Oct 23 23:31	1° $\text{B}$ 46'04	27°24'34	evening max el	7172 Oct 05 03:22	13° $\text{B}$ 55'08	26°51'23
retrograde	7171 Nov 06 18:22	9° $\text{B}$ 00'13		retrograde	7172 Oct 19 00:58	21° $\text{B}$ 04'34	
evening set	7171 Nov 13 21:38	6° $\text{B}$ 35'20		evening set	7172 Oct 25 22:55	19° $\text{B}$ 01'42	
min. Earth dist.	7171 Nov 17 13:30	3° $\text{B}$ 39'55	0.62323 AU	min. Earth dist.	7172 Oct 29 17:30	16° $\text{B}$ 24'16	0.60280 AU
inferior conj	7171 Nov 20 11:16	0° $\text{B}$ 57'01	-3°14'10	inferior conj	7172 Nov 01 22:08	13° $\text{B}$ 47'23	-4°18'05
minimum elong	7171 Nov 20 17:11	0° $\text{B}$ 43'12	3°12'03	minimum elong	7172 Nov 02 05:06	13° $\text{B}$ 33'06	4°16'12
	7171 Nov 21 11:53	30° $\text{R}$ $\text{B}$		morning rise	7172 Nov 09 13:32	9° $\text{B}$ 03'18	
morning rise	7171 Nov 27 14:41	25° $\text{B}$ 51'38		direct	7172 Nov 11 19:31	8° $\text{B}$ 44'02	
direct	7171 Nov 29 21:55	25° $\text{B}$ 27'59		asc. node	7172 Nov 16 12:30	10° $\text{B}$ 12'53	
asc. node	7171 Nov 30 15:28	25° $\text{B}$ 30'27		morning max el	7172 Nov 19 06:11	12° $\text{B}$ 25'04	18°06'11
morning max el	7171 Dec 06 17:07	28° $\text{B}$ 55'56	17°49'38		7172 Dec 01 00:27	0° $\text{B}$	
	7171 Dec 07 17:36	0° $\text{B}$		morning set	7172 Dec 04 23:13	7° $\text{B}$ 18'47	
morning set	7171 Dec 22 14:35	23° $\text{B}$ 39'04					
	7171 Dec 26 04:14	0° $\text{B}$		superior conj	7172 Dec 14 16:53	25° $\text{B}$ 14'37	0°50'18
superior conj	7172 Jan 02 20:04	13° $\text{B}$ 16'52	0°14'56	minimum elong	7172 Dec 14 20:19	25° $\text{B}$ 29'55	0°49'55
minimum elong	7172 Jan 02 21:28	13° $\text{B}$ 22'50	0°14'48		7172 Dec 17 09:28	0° $\text{B}$	
behind sun begin	7172 Jan 02 18:01	13° $\text{B}$ 08'14		desc. node	7172 Dec 21 18:30	7° $\text{B}$ 30'46	
behind sun end	7172 Jan 03 00:55	13° $\text{B}$ 37'25		max. Earth dist.	7172 Dec 22 08:35	8° $\text{B}$ 29'58	1.41711 AU
desc. node	7172 Jan 04 21:31	16° $\text{B}$ 44'55		evening rise	7172 Dec 27 14:38	17° $\text{B}$ 07'38	
max. Earth dist.	7172 Jan 09 21:25	24° $\text{B}$ 58'02	1.43509 AU		7173 Jan 04 20:26	0° $\approx$	
	7172 Jan 13 00:39	0° $\approx$			7173 Jan 26 15:17	0° $\text{B}$	
evening rise	7172 Jan 17 11:14	6° $\approx$ 58'59		evening max el	7173 Jan 30 02:49	3° $\text{B}$ 47'12	22°47'45
	7172 Feb 01 19:58	0° $\text{B}$		retrograde	7173 Feb 09 04:03	9° $\text{B}$ 45'10	
evening max el	7172 Feb 17 10:00	20° $\text{B}$ 07'47	21°29'47	asc. node	7173 Feb 12 11:41	8° $\text{B}$ 49'13	
retrograde	7172 Feb 26 08:03	25° $\text{B}$ 24'41		evening set	7173 Feb 13 22:52	7° $\text{B}$ 47'02	
asc. node	7172 Feb 26 14:37	25° $\text{B}$ 24'18		inferior conj	7173 Feb 19 07:42	1° $\text{B}$ 22'52	2°05'53
evening set	7172 Mar 01 15:35	23° $\text{B}$ 41'40		minimum elong	7173 Feb 19 05:27	1° $\text{B}$ 30'40	2°05'12
inferior conj	7172 Mar 06 23:13	17° $\text{B}$ 25'14	2°40'52	min. Earth dist.	7173 Feb 19 00:45	1° $\text{B}$ 46'55	0.68310 AU
minimum elong	7172 Mar 06 20:58	17° $\text{B}$ 33'04	2°40'18		7173 Feb 20 07:46	30° $\text{R}$ $\approx$	
min. Earth dist.	7172 Mar 07 04:08	17° $\text{B}$ 08'07	0.68176 AU	morning rise	7173 Feb 24 11:55	25° $\approx$ 14'32	

direct	7173 Mar 01 00:02	23° $\approx$ 23'44		direct	7174 Feb 12 22:02	7° $\approx$ 52'26	
morning max el	7173 Mar 09 21:50	28° $\approx$ 34'46	21°37'32	morning max el	7174 Feb 20 18:11	12° $\approx$ 19'44	20°20'53
	7173 Mar 11 06:34	0° $\mathbb{X}$			7174 Mar 06 10:05	0° $\mathbb{X}$	
desc. node	7173 Mar 19 17:58	10° $\mathbb{X}$ 31'16		desc. node	7174 Mar 06 14:56	0° $\mathbb{X}$ 17'34	
	7173 Apr 02 05:08	0° $\mathbb{Y}$		morning set	7174 Mar 21 00:07	21° $\mathbb{X}$ 57'38	
morning set	7173 Apr 10 23:12	13° $\mathbb{Y}$ 35'13			7174 Mar 26 03:41	0° $\mathbb{Y}$	
max. Earth dist.	7173 Apr 17 07:32	23° $\mathbb{Y}$ 52'57	1.41847 AU	max. Earth dist.	7174 Mar 30 14:41	7° $\mathbb{Y}$ 05'32	1.43651 AU
	7173 Apr 20 23:10	0° $\mathbb{Z}$					
				superior conj	7174 Apr 05 18:26	17° $\mathbb{Y}$ 07'25	-2°10'50
superior conj	7173 Apr 24 21:19	6° $\mathbb{Z}$ 44'33	-2°00'18	minimum elong	7174 Apr 05 19:15	17° $\mathbb{Y}$ 10'50	2°10'52
minimum elong	7173 Apr 25 02:12	7° $\mathbb{Z}$ 05'47	2°00'02		7174 Apr 13 09:41	0° $\mathbb{Z}$	
evening rise	7173 May 05 20:23	26° $\mathbb{Z}$ 26'31		evening rise	7174 Apr 18 08:25	8° $\mathbb{Z}$ 34'17	
	7173 May 07 19:04	0° $\mathbb{H}$		asc. node	7174 Apr 28 07:49	25° $\mathbb{Z}$ 34'47	
asc. node	7173 May 11 10:46	6° $\mathbb{H}$ 35'10			7174 May 01 05:49	0° $\mathbb{H}$	
evening max el	7173 May 22 03:52	22° $\mathbb{H}$ 16'52	18°10'10	evening max el	7174 May 05 16:39	5° $\mathbb{H}$ 27'37	18°06'46
retrograde	7173 May 29 01:06	25° $\mathbb{H}$ 45'37		retrograde	7174 May 12 03:21	8° $\mathbb{H}$ 48'34	
evening set	7173 May 31 12:08	25° $\mathbb{H}$ 19'31		evening set	7174 May 14 21:36	8° $\mathbb{H}$ 10'44	
inferior conj	7173 Jun 07 10:20	20° $\mathbb{H}$ 30'47	2°13'30	inferior conj	7174 May 21 05:03	3° $\mathbb{H}$ 02'24	2°58'59
minimum elong	7173 Jun 07 13:32	20° $\mathbb{H}$ 23'31	2°12'32	minimum elong	7174 May 21 07:33	2° $\mathbb{H}$ 55'55	2°58'27
min. Earth dist.	7173 Jun 10 18:42	17° $\mathbb{H}$ 30'04	0.59948 AU	min. Earth dist.	7174 May 24 03:39	0° $\mathbb{H}$ 00'39	0.62175 AU
morning rise	7173 Jun 14 12:07	14° $\mathbb{H}$ 43'22			7174 May 24 03:55	30° $\mathbb{R}$ $\mathbb{Z}$	
desc. node	7173 Jun 15 17:19	14° $\mathbb{H}$ 02'53		morning rise	7174 May 27 15:43	26° $\mathbb{Z}$ 57'56	
direct	7173 Jun 20 23:27	12° $\mathbb{H}$ 44'00		desc. node	7174 Jun 02 14:21	24° $\mathbb{Z}$ 32'57	
morning max el	7173 Jul 05 08:01	20° $\mathbb{H}$ 38'32	27°40'19	direct	7174 Jun 03 10:23	24° $\mathbb{Z}$ 30'48	
	7173 Jul 13 09:40	0° $\mathbb{G}$			7174 Jun 14 20:09	0° $\mathbb{H}$	
	7173 Jul 31 21:46	0° $\mathbb{Q}$		morning max el	7174 Jun 17 13:23	2° $\mathbb{H}$ 32'28	27°54'25
morning set	7173 Aug 06 06:42	10° $\mathbb{Q}$ 46'00			7174 Jul 07 19:25	0° $\mathbb{G}$	
asc. node	7173 Aug 07 10:04	13° $\mathbb{Q}$ 09'38		morning set	7174 Jul 21 07:46	24° $\mathbb{G}$ 56'41	
max. Earth dist.	7173 Aug 12 13:48	24° $\mathbb{Q}$ 20'02	1.31781 AU		7174 Jul 23 18:28	0° $\mathbb{Q}$	
				asc. node	7174 Jul 25 07:03	3° $\mathbb{Q}$ 13'26	
superior conj	7173 Aug 13 10:51	26° $\mathbb{Q}$ 16'18	0°58'38	max. Earth dist.	7174 Jul 26 20:53	6° $\mathbb{Q}$ 36'25	1.32206 AU
minimum elong	7173 Aug 13 08:42	26° $\mathbb{Q}$ 04'24	0°58'12				
	7173 Aug 15 03:18	0° $\mathbb{P}$		superior conj	7174 Jul 28 20:20	10° $\mathbb{Q}$ 54'07	0°35'51
evening rise	7173 Aug 20 05:11	11° $\mathbb{P}$ 05'18		minimum elong	7174 Jul 28 18:46	10° $\mathbb{Q}$ 45'35	0°35'27
	7173 Aug 29 18:56	0° $\mathbb{A}$		evening rise	7174 Aug 04 16:39	25° $\mathbb{Q}$ 49'22	
desc. node	7173 Sep 11 16:24	19° $\mathbb{A}$ 28'24			7174 Aug 06 16:07	0° $\mathbb{P}$	
evening max el	7173 Sep 16 23:36	25° $\mathbb{A}$ 14'18	25°45'46		7174 Aug 24 07:31	0° $\mathbb{A}$	
	7173 Sep 23 03:58	0° $\mathbb{L}$		evening max el	7174 Aug 29 13:02	5° $\mathbb{A}$ 49'12	24°15'59
retrograde	7173 Sep 30 22:16	2° $\mathbb{L}$ 18'44		desc. node	7174 Aug 29 13:28	5° $\mathbb{A}$ 50'15	
evening set	7173 Oct 07 02:43	0° $\mathbb{L}$ 48'38		retrograde	7174 Sep 12 07:36	12° $\mathbb{A}$ 44'06	
	7173 Oct 08 16:06	30° $\mathbb{R}$ $\mathbb{A}$		evening set	7174 Sep 17 05:44	11° $\mathbb{A}$ 50'32	
min. Earth dist.	7173 Oct 11 12:01	28° $\mathbb{A}$ 12'29	0.58211 AU	min. Earth dist.	7174 Sep 22 23:56	8° $\mathbb{A}$ 57'06	0.56390 AU
inferior conj	7173 Oct 14 14:56	25° $\mathbb{A}$ 59'08	-5°08'22	inferior conj	7174 Sep 25 11:29	7° $\mathbb{A}$ 24'21	-5°29'12
minimum elong	7173 Oct 14 20:21	25° $\mathbb{A}$ 49'28	5°07'32	minimum elong	7174 Sep 25 11:26	7° $\mathbb{A}$ 24'26	5°29'11
morning rise	7173 Oct 22 16:18	21° $\mathbb{A}$ 37'51		morning rise	7174 Oct 03 19:21	3° $\mathbb{A}$ 23'48	
direct	7173 Oct 25 01:08	21° $\mathbb{A}$ 20'03		direct	7174 Oct 06 11:46	3° $\mathbb{A}$ 04'44	
morning max el	7173 Nov 02 12:05	25° $\mathbb{A}$ 23'54	18°43'17	morning max el	7174 Oct 16 07:16	7° $\mathbb{A}$ 41'33	19°42'27
asc. node	7173 Nov 03 09:30	26° $\mathbb{A}$ 17'50		asc. node	7174 Oct 21 06:29	13° $\mathbb{A}$ 29'40	
	7173 Nov 06 11:02	0° $\mathbb{M}$			7174 Oct 30 21:57	0° $\mathbb{L}$	
morning set	7173 Nov 18 18:59	21° $\mathbb{M}$ 29'14		morning set	7174 Nov 02 22:17	5° $\mathbb{M}$ 59'55	
	7173 Nov 23 03:42	0° $\mathbb{X}$					
				superior conj	7174 Nov 10 19:07	21° $\mathbb{M}$ 51'58	1°32'33
superior conj	7173 Nov 27 10:18	8° $\mathbb{X}$ 11'19	1°16'04	minimum elong	7174 Nov 10 21:24	22° $\mathbb{M}$ 03'17	1°32'25
minimum elong	7173 Nov 27 13:41	8° $\mathbb{X}$ 27'14	1°15'45		7174 Nov 14 23:40	0° $\mathbb{X}$	
max. Earth dist.	7173 Dec 04 15:03	21° $\mathbb{X}$ 18'35	1.39621 AU	max. Earth dist.	7174 Nov 16 20:32	3° $\mathbb{X}$ 30'56	1.37485 AU
evening rise	7173 Dec 08 15:40	28° $\mathbb{X}$ 14'59		evening rise	7174 Nov 20 14:29	10° $\mathbb{X}$ 20'38	
desc. node	7173 Dec 08 15:31	28° $\mathbb{X}$ 14'19		desc. node	7174 Nov 25 12:32	18° $\mathbb{X}$ 51'41	
	7173 Dec 09 16:40	0° $\mathbb{Z}$			7174 Dec 02 09:52	0° $\mathbb{Z}$	
	7173 Dec 29 08:53	0° $\approx$			7174 Dec 24 23:15	0° $\approx$	
evening max el	7174 Jan 12 16:46	17° $\approx$ 30'20	24°07'48	evening max el	7174 Dec 26 05:51	1° $\approx$ 16'57	25°23'10
retrograde	7174 Jan 23 20:40	24° $\approx$ 03'46		retrograde	7175 Jan 07 08:49	8° $\approx$ 16'00	
evening set	7174 Jan 29 03:53	21° $\approx$ 51'18		evening set	7175 Jan 13 05:06	5° $\approx$ 50'57	
asc. node	7174 Jan 30 08:45	20° $\approx$ 43'19		asc. node	7175 Jan 17 05:47	1° $\approx$ 28'50	
min. Earth dist.	7174 Feb 02 21:10	16° $\approx$ 25'06	0.68055 AU	min. Earth dist.	7175 Jan 17 15:05	0° $\approx$ 59'17	0.67426 AU
inferior conj	7174 Feb 03 15:23	15° $\approx$ 23'32	1°22'47		7175 Jan 18 09:28	30° $\mathbb{R}$ $\mathbb{Z}$	
minimum elong	7174 Feb 03 13:36	15° $\approx$ 29'31	1°22'11	inferior conj	7175 Jan 18 20:29	29° $\mathbb{Z}$ 24'23	0°32'13
morning rise	7174 Feb 08 23:22	9° $\approx$ 20'57		minimum elong	7175 Jan 18 19:41	29° $\mathbb{Z}$ 26'57	0°31'58



morning rise	7175 Jan 24 10:35	23° $\text{Z}$ 29'34		asc. node	7176 Jan 04 02:49	11° $\text{Z}$ 51'53	
direct	7175 Jan 27 21:07	22° $\text{Z}$ 21'30		morning rise	7176 Jan 08 19:25	7° $\text{Z}$ 36'11	
morning max el	7175 Feb 03 22:33	26° $\text{Z}$ 16'14	19°18'17	direct	7176 Jan 11 19:27	6° $\text{Z}$ 45'27	
	7175 Feb 07 06:23	0° $\approx$		morning max el	7176 Jan 18 09:48	10° $\text{Z}$ 19'46	18°31'36
greatest brilliancy	7175 Feb 17 02:48	13° $\approx$ 48'06	-0.7m		7176 Feb 01 12:27	0° $\approx$	
desc. node	7175 Feb 21 11:54	20° $\approx$ 26'16		morning set	7176 Feb 07 20:24	10° $\approx$ 01'13	
morning set	7175 Feb 27 23:34	0° $\text{X}$ 24'55		desc. node	7176 Feb 08 08:53	10° $\approx$ 50'41	
	7175 Feb 27 17:07	0° $\text{X}$			7176 Feb 20 12:36	0° $\text{X}$	
max. Earth dist.	7175 Mar 13 04:57	21° $\text{X}$ 02'29	1.44896 AU				
				superior conj	7176 Feb 23 20:27	5° $\text{X}$ 12'48	-1°36'22
superior conj	7175 Mar 16 15:10	26° $\text{X}$ 28'05	-2°03'37	minimum elong	7176 Feb 23 10:51	4° $\text{X}$ 35'13	1°35'24
minimum elong	7175 Mar 16 09:14	26° $\text{X}$ 04'26	2°03'19	max. Earth dist.	7176 Feb 23 23:43	5° $\text{X}$ 25'37	1.45439 AU
	7175 Mar 18 20:17	0° $\text{Y}$		evening rise	7176 Mar 10 14:36	0° $\text{Y}$ 01'13	
evening rise	7175 Mar 30 23:13	19° $\text{Y}$ 46'18			7176 Mar 10 14:18	0° $\text{Y}$	
	7175 Apr 06 03:17	0° $\text{Z}$		greatest brilliancy	7176 Mar 19 15:37	14° $\text{Y}$ 20'17	-0.8m
asc. node	7175 Apr 15 04:53	14° $\text{Z}$ 02'29			7176 Mar 30 12:07	0° $\text{Z}$	
evening max el	7175 Apr 19 05:37	18° $\text{Z}$ 52'34	18°22'00	asc. node	7176 Apr 01 01:57	1° $\text{Z}$ 47'48	
retrograde	7175 Apr 25 15:47	22° $\text{Z}$ 19'58		evening max el	7176 Apr 01 16:07	2° $\text{Z}$ 24'42	18°55'03
evening set	7175 Apr 28 16:57	21° $\text{Z}$ 29'01		retrograde	7176 Apr 08 10:26	6° $\text{Z}$ 11'15	
inferior conj	7175 May 04 13:41	16° $\text{Z}$ 02'20	3°21'35	evening set	7176 Apr 11 18:47	5° $\text{Z}$ 06'27	
minimum elong	7175 May 04 14:48	15° $\text{Z}$ 59'06	3°21'27		7176 Apr 16 20:36	30° $\text{R}$ $\text{Y}$	
min. Earth dist.	7175 May 06 21:48	13° $\text{Z}$ 20'43	0.64198 AU	inferior conj	7176 Apr 17 08:23	29° $\text{Y}$ 23'04	3°26'26
morning rise	7175 May 10 11:42	9° $\text{Z}$ 49'10		minimum elong	7176 Apr 17 08:06	29° $\text{Y}$ 23'56	3°26'23
direct	7175 May 17 05:39	7° $\text{Z}$ 05'27		min. Earth dist.	7176 Apr 19 00:59	27° $\text{Y}$ 15'37	0.65862 AU
desc. node	7175 May 20 11:22	7° $\text{Z}$ 38'28		morning rise	7176 Apr 22 20:58	23° $\text{Y}$ 06'30	
morning max el	7175 May 30 22:32	15° $\text{Z}$ 04'12	27°31'51	direct	7176 Apr 29 07:54	20° $\text{Y}$ 18'49	
	7175 Jun 12 02:45	0° $\text{II}$		desc. node	7176 May 06 08:22	22° $\text{Y}$ 53'24	
	7175 Jun 30 11:59	0° $\text{E}$		morning max el	7176 May 12 08:58	28° $\text{Y}$ 02'54	26°38'30
morning set	7175 Jul 05 00:58	8° $\text{E}$ 41'32			7176 May 14 05:31	0° $\text{Z}$	
max. Earth dist.	7175 Jul 09 21:02	18° $\text{E}$ 30'23	1.33099 AU		7176 Jun 04 20:34	0° $\text{II}$	
asc. node	7175 Jul 12 04:04	23° $\text{E}$ 19'57		morning set	7176 Jun 17 07:06	21° $\text{II}$ 51'30	
					7176 Jun 21 11:48	0° $\text{E}$	
superior conj	7175 Jul 13 01:53	25° $\text{E}$ 16'06	0°09'18	max. Earth dist.	7176 Jun 21 11:07	29° $\text{II}$ 56'36	1.34461 AU
minimum elong	7175 Jul 13 01:25	25° $\text{E}$ 13'38	0°09'07				
behind sun begin	7175 Jul 12 20:56	24° $\text{E}$ 49'40		superior conj	7176 Jun 26 01:15	9° $\text{E}$ 15'40	-0°20'11
behind sun end	7175 Jul 13 05:55	25° $\text{E}$ 37'38		minimum elong	7176 Jun 26 02:22	9° $\text{E}$ 21'28	0°20'02
	7175 Jul 15 06:46	0° $\text{O}$		asc. node	7176 Jun 28 01:08	13° $\text{E}$ 25'03	
evening rise	7175 Jul 20 04:10	10° $\text{O}$ 30'05		evening rise	7176 Jul 03 13:45	25° $\text{E}$ 01'15	
	7175 Jul 30 04:41	0° $\text{P}$			7176 Jul 05 23:49	0° $\text{O}$	
evening max el	7175 Aug 11 01:24	16° $\text{P}$ 04'42	22°37'10	evening max el	7176 Jul 22 21:20	26° $\text{O}$ 36'03	21°05'17
desc. node	7175 Aug 16 10:32	20° $\text{P}$ 18'52			7176 Jul 27 01:20	0° $\text{P}$	
retrograde	7175 Aug 24 04:16	22° $\text{P}$ 37'07		desc. node	7176 Aug 02 07:35	2° $\text{P}$ 22'32	
evening set	7175 Aug 27 14:04	22° $\text{P}$ 11'38		retrograde	7176 Aug 03 17:19	2° $\text{P}$ 27'22	
min. Earth dist.	7175 Sep 04 08:50	18° $\text{P}$ 45'24	0.55136 AU	evening set	7176 Aug 05 23:43	2° $\text{P}$ 15'18	
inferior conj	7175 Sep 05 13:40	18° $\text{P}$ 04'25	-5°02'38		7176 Aug 12 03:45	30° $\text{R}$ $\text{O}$	
minimum elong	7175 Sep 05 06:38	18° $\text{P}$ 14'26	5°01'32	inferior conj	7176 Aug 15 06:36	28° $\text{O}$ 17'44	-3°42'47
morning rise	7175 Sep 14 01:08	14° $\text{P}$ 15'40		minimum elong	7176 Aug 14 21:27	28° $\text{O}$ 30'38	3°40'03
direct	7175 Sep 17 04:53	13° $\text{P}$ 52'52		min. Earth dist.	7176 Aug 15 18:12	28° $\text{O}$ 01'22	0.54720 AU
morning max el	7175 Sep 28 13:47	19° $\text{P}$ 11'49	21°03'30	morning rise	7176 Aug 23 19:38	24° $\text{O}$ 22'14	
	7175 Oct 07 03:57	0° $\text{Q}$		direct	7176 Aug 27 13:11	23° $\text{O}$ 52'22	
asc. node	7175 Oct 08 03:29	1° $\text{Q}$ 34'07			7176 Sep 09 09:42	0° $\text{P}$	
morning set	7175 Oct 18 06:23	20° $\text{Q}$ 43'14		morning max el	7176 Sep 09 09:10	29° $\text{O}$ 58'47	22°42'02
	7175 Oct 22 16:56	0° $\text{M}$		asc. node	7176 Sep 24 00:30	20° $\text{P}$ 18'59	
					7176 Sep 29 00:54	0° $\text{Q}$	
superior conj	7175 Oct 25 14:57	6° $\text{M}$ 04'07	1°40'44	morning set	7176 Oct 01 17:14	5° $\text{Q}$ 33'29	
minimum elong	7175 Oct 25 15:50	6° $\text{M}$ 08'41	1°40'45				
max. Earth dist.	7175 Oct 30 06:05	15° $\text{M}$ 25'28	1.35537 AU	superior conj	7176 Oct 08 18:26	20° $\text{Q}$ 38'08	1°41'44
evening rise	7175 Nov 03 07:50	23° $\text{M}$ 15'52		minimum elong	7176 Oct 08 18:00	20° $\text{Q}$ 35'50	1°41'46
	7175 Nov 07 00:06	0° $\text{X}$		max. Earth dist.	7176 Oct 11 23:20	27° $\text{Q}$ 23'00	1.33937 AU
desc. node	7175 Nov 12 09:35	9° $\text{X}$ 17'58			7176 Oct 13 05:47	0° $\text{M}$	
	7175 Nov 26 02:22	0° $\text{Z}$		evening rise	7176 Oct 16 15:46	6° $\text{M}$ 51'07	
evening max el	7175 Dec 08 18:56	15° $\text{Z}$ 01'20	26°26'28	desc. node	7176 Oct 29 06:39	29° $\text{M}$ 27'42	
retrograde	7175 Dec 21 15:44	22° $\text{Z}$ 15'16			7176 Oct 29 14:37	0° $\text{X}$	
evening set	7175 Dec 28 00:41	19° $\text{Z}$ 40'58		evening max el	7176 Nov 20 07:48	28° $\text{X}$ 34'55	27°10'25
min. Earth dist.	7176 Jan 01 04:05	15° $\text{Z}$ 24'21	0.66431 AU		7176 Nov 21 20:47	0° $\text{Z}$	
inferior conj	7176 Jan 02 20:59	13° $\text{Z}$ 20'47	-0°25'11	retrograde	7176 Dec 03 16:56	5° $\text{Z}$ 54'25	
minimum elong	7176 Jan 02 21:40	13° $\text{Z}$ 18'43	0°24'49	evening set	7176 Dec 10 12:32	3° $\text{Z}$ 16'39	

	7176 Dec 14 00:30	30° $\text{R}\text{X}$		min. Earth dist.	7177 Nov 27 06:53	13° $\text{X}$ 20'16	0.63406 AU
min. Earth dist.	7176 Dec 14 10:01	29° $\text{X}$ 34'27	0.65084 AU	inferior conj	7177 Nov 29 22:56	10° $\text{X}$ 40'03	-2°35'19
inferior conj	7176 Dec 16 14:42	27° $\text{X}$ 08'18	-1°28'20	minimum elong	7177 Nov 30 03:43	10° $\text{X}$ 28'05	2°33'26
minimum elong	7176 Dec 16 17:19	27° $\text{X}$ 01'01	1°27'11	morning rise	7177 Dec 06 19:20	5° $\text{X}$ 24'09	
asc. node	7176 Dec 20 23:51	22° $\text{X}$ 50'05		asc. node	7177 Dec 07 20:53	5° $\text{X}$ 05'15	
morning rise	7176 Dec 22 23:23	21° $\text{X}$ 36'34		direct	7177 Dec 09 04:38	4° $\text{X}$ 56'45	
direct	7176 Dec 25 14:52	20° $\text{X}$ 59'26		morning max el	7177 Dec 15 18:47	8° $\text{X}$ 21'22	17°48'46
morning max el	7177 Jan 01 01:33	24° $\text{X}$ 24'15	18°01'33		7177 Dec 30 03:46	0° $\text{Z}$	
	7177 Jan 05 16:14	0° $\text{Z}$		morning set	7178 Jan 01 03:26	3° $\text{Z}$ 26'38	
morning set	7177 Jan 18 22:53	21° $\text{Z}$ 06'12		desc. node	7178 Jan 12 02:55	22° $\text{Z}$ 08'39	
	7177 Jan 24 08:44	0° $\approx$					
desc. node	7177 Jan 25 05:55	1° $\approx$ 26'18		superior conj	7178 Jan 13 09:53	24° $\text{Z}$ 16'38	-0°09'18
				minimum elong	7178 Jan 13 08:54	24° $\text{Z}$ 12'35	0°09'04
superior conj	7177 Feb 02 05:07	14° $\approx$ 14'26	-0°54'40	behind sun begin	7178 Jan 13 00:57	23° $\text{Z}$ 39'47	
minimum elong	7177 Feb 01 22:38	13° $\approx$ 48'42	0°53'46	behind sun end	7178 Jan 13 16:51	24° $\text{Z}$ 45'18	
max. Earth dist.	7177 Feb 05 19:23	19° $\approx$ 55'04	1.45234 AU		7178 Jan 16 22:02	0° $\approx$	
	7177 Feb 12 06:15	0° $\text{X}$		max. Earth dist.	7178 Jan 19 13:02	4° $\approx$ 13'08	1.44314 AU
evening rise	7177 Feb 18 10:04	9° $\text{X}$ 32'10		evening rise	7178 Jan 28 20:50	18° $\approx$ 49'15	
	7177 Mar 03 20:12	0° $\text{Y}$			7178 Feb 05 05:21	0° $\text{X}$	
greatest brilliancy	7177 Mar 04 03:37	0° $\text{Y}$ 27'30	-0.7m	evening max el	7178 Feb 26 22:56	29° $\text{X}$ 37'21	20°48'18
evening max el	7177 Mar 15 22:13	16° $\text{Y}$ 00'09	19°44'35		7178 Feb 27 07:56	0° $\text{Y}$	
asc. node	7177 Mar 18 23:01	18° $\text{Y}$ 38'33		asc. node	7178 Mar 05 20:04	4° $\text{Y}$ 20'18	
retrograde	7177 Mar 23 08:15	20° $\text{Y}$ 16'33		retrograde	7178 Mar 07 06:42	4° $\text{Y}$ 31'09	
evening set	7177 Mar 27 00:33	18° $\text{Y}$ 57'24		evening set	7178 Mar 11 08:12	2° $\text{Y}$ 57'07	
inferior conj	7177 Apr 01 10:00	12° $\text{Y}$ 59'18	3°17'22		7178 Mar 14 05:36	30° $\text{R}\text{X}$	
minimum elong	7177 Apr 01 08:38	13° $\text{Y}$ 03'51	3°17'11	inferior conj	7178 Mar 16 15:56	26° $\text{X}$ 46'44	2°57'02
min. Earth dist.	7177 Apr 02 11:49	11° $\text{Y}$ 33'17	0.67102 AU	minimum elong	7178 Mar 16 13:53	26° $\text{X}$ 53'49	2°56'37
morning rise	7177 Apr 06 16:27	6° $\text{Y}$ 42'39		min. Earth dist.	7178 Mar 17 04:13	26° $\text{X}$ 04'24	0.67902 AU
direct	7177 Apr 12 16:19	4° $\text{Y}$ 02'09		morning rise	7178 Mar 21 19:20	20° $\text{X}$ 32'09	
desc. node	7177 Apr 23 05:23	9° $\text{Y}$ 45'50		direct	7178 Mar 27 05:53	18° $\text{X}$ 07'17	
morning max el	7177 Apr 24 18:40	11° $\text{Y}$ 16'50	25°23'02	morning max el	7178 Apr 07 03:31	24° $\text{X}$ 38'07	23°55'43
	7177 May 09 17:08	0° $\text{Z}$		desc. node	7178 Apr 10 02:23	27° $\text{X}$ 48'59	
	7177 May 28 12:45	0° $\text{II}$			7178 Apr 11 23:12	0° $\text{Y}$	
morning set	7177 May 30 21:51	4° $\text{II}$ 14'36			7178 May 03 04:05	0° $\text{Z}$	
max. Earth dist.	7177 Jun 03 14:09	11° $\text{II}$ 01'19	1.36270 AU	morning set	7178 May 12 15:49	15° $\text{Z}$ 36'38	
				max. Earth dist.	7178 May 16 10:16	22° $\text{Z}$ 11'27	1.38406 AU
superior conj	7177 Jun 09 15:37	22° $\text{II}$ 45'07	-0°51'15		7178 May 20 17:41	0° $\text{II}$	
minimum elong	7177 Jun 09 18:38	23° $\text{II}$ 00'07	0°50'45				
	7177 Jun 13 06:02	0° $\text{Z}$		superior conj	7178 May 23 17:31	5° $\text{II}$ 36'15	-1°21'45
asc. node	7177 Jun 14 22:11	3° $\text{Z}$ 24'25		minimum elong	7178 May 23 22:19	5° $\text{II}$ 58'59	1°21'06
evening rise	7177 Jun 17 19:11	9° $\text{Z}$ 15'59		evening rise	7178 Jun 01 17:50	23° $\text{II}$ 07'22	
	7177 Jun 29 01:58	0° $\Omega$		asc. node	7178 Jun 01 19:13	23° $\text{II}$ 14'08	
evening max el	7177 Jul 05 05:57	7° $\Omega$ 46'37	19°50'09		7178 Jun 05 07:00	0° $\text{Z}$	
retrograde	7177 Jul 15 09:17	12° $\Omega$ 45'49		evening max el	7178 Jun 18 02:55	19° $\text{Z}$ 41'28	18°55'15
evening set	7177 Jul 17 06:07	12° $\Omega$ 36'24		retrograde	7178 Jun 26 15:28	23° $\text{Z}$ 53'34	
desc. node	7177 Jul 20 04:38	11° $\Omega$ 46'39		evening set	7178 Jun 28 15:22	23° $\text{Z}$ 40'39	
inferior conj	7177 Jul 26 04:34	8° $\Omega$ 35'05	-1°49'03	inferior conj	7178 Jul 06 19:38	19° $\text{Z}$ 23'58	0°04'32
minimum elong	7177 Jul 25 23:32	8° $\Omega$ 42'48	1°47'13	minimum elong	7178 Jul 06 19:48	19° $\text{Z}$ 23'39	0°04'23
min. Earth dist.	7177 Jul 28 06:11	7° $\Omega$ 19'05	0.55269 AU	transit middle	7178 Jul 06 19:48	19° $\text{Z}$ 23'39	0°04'23
morning rise	7177 Aug 03 14:57	4° $\Omega$ 12'26		transit begin	7178 Jul 06 16:12	19° $\text{Z}$ 30'01	
direct	7177 Aug 08 02:41	3° $\Omega$ 28'02		transit end	7178 Jul 06 23:24	19° $\text{Z}$ 17'16	
morning max el	7177 Aug 21 22:35	10° $\Omega$ 18'51	24°27'17	desc. node	7178 Jul 07 01:40	19° $\text{Z}$ 13'14	
	7177 Sep 05 16:06	0° $\text{P}$		min. Earth dist.	7178 Jul 09 21:42	17° $\text{Z}$ 13'37	0.56686 AU
asc. node	7177 Sep 10 21:32	9° $\text{P}$ 33'20		morning rise	7178 Jul 14 20:53	14° $\text{Z}$ 24'55	
morning set	7177 Sep 16 04:59	20° $\text{P}$ 24'15		direct	7178 Jul 20 05:54	13° $\text{Z}$ 15'54	
	7177 Sep 20 15:23	0° $\text{Q}$		morning max el	7178 Aug 03 12:39	20° $\text{Z}$ 39'43	26°03'25
					7178 Aug 11 14:11	0° $\Omega$	
superior conj	7177 Sep 23 02:45	5° $\text{Q}$ 24'29	1°36'28	asc. node	7178 Aug 28 18:33	29° $\Omega$ 09'25	
minimum elong	7177 Sep 23 01:18	5° $\text{Q}$ 16'35	1°36'23		7178 Aug 29 04:28	0° $\text{P}$	
max. Earth dist.	7177 Sep 25 00:42	9° $\text{Q}$ 33'40	1.32763 AU	morning set	7178 Aug 31 16:00	5° $\text{P}$ 10'54	
evening rise	7177 Sep 30 10:28	20° $\text{Q}$ 55'28					
	7177 Oct 05 01:10	0° $\text{P}$		superior conj	7178 Sep 07 13:47	20° $\text{P}$ 16'20	1°25'40
desc. node	7177 Oct 16 03:42	19° $\text{P}$ 12'39		minimum elong	7178 Sep 07 11:42	20° $\text{P}$ 04'51	1°25'25
	7177 Oct 23 14:14	0° $\text{X}$		max. Earth dist.	7178 Sep 08 08:19	21° $\text{P}$ 58'39	1.32038 AU
evening max el	7177 Nov 02 19:05	11° $\text{X}$ 45'43	27°28'19		7178 Sep 12 00:30	0° $\text{Q}$	
retrograde	7177 Nov 16 11:47	19° $\text{X}$ 03'39		evening rise	7178 Sep 14 12:55	5° $\text{Q}$ 20'30	
evening set	7177 Nov 23 13:54	16° $\text{X}$ 31'03			7178 Sep 27 16:01	0° $\text{P}$	

desc. node	7178 Oct 03 00:44	8°♍22'53		7179 Sep 03 17:54	0°♎	
evening max el	7178 Oct 16 02:38	24°♍21'36	27°14'38	7179 Sep 19 21:47	26°♎44'33	
	7178 Oct 23 20:01	0°♏		7179 Sep 22 11:06	0°♍	
retrograde	7178 Oct 29 23:14	1°♏33'49		evening max el	7179 Sep 28 03:41	6°♍10'59 26°27'10
	7178 Nov 04 19:50	30°♍		retrograde	7179 Oct 12 01:49	13°♍17'26
evening set	7178 Nov 06 01:13	29°♍17'12		evening set	7179 Oct 18 17:57	11°♍27'44
min. Earth dist.	7178 Nov 09 17:22	26°♍30'43	0.61468 AU	min. Earth dist.	7179 Oct 22 17:09	8°♍53'01 0.59393 AU
inferior conj	7178 Nov 12 18:37	23°♍48'31	-3°42'15	inferior conj	7179 Oct 25 22:15	6°♍24'20 -4°41'55
minimum elong	7178 Nov 13 01:10	23°♍33'58	3°40'08	minimum elong	7179 Oct 26 04:58	6°♍11'19 4°40'24
morning rise	7178 Nov 20 03:14	18°♍51'36		morning rise	7179 Nov 02 18:11	1°♍49'31
direct	7178 Nov 22 09:23	18°♍30'16		direct	7179 Nov 05 00:57	1°♍31'07
asc. node	7178 Nov 24 17:55	18°♍54'26		asc. node	7179 Nov 11 14:56	4°♍13'56
morning max el	7178 Nov 29 10:18	22°♍03'06	17°54'12	morning max el	7179 Nov 12 20:42	5°♍20'38 18°19'19
	7178 Dec 05 13:04	0°♏			7179 Nov 28 09:32	0°♏
morning set	7178 Dec 15 03:32	16°♏42'43		morning set	7179 Nov 28 17:29	0°♏37'49
	7178 Dec 22 12:24	0°♐				
superior conj	7178 Dec 25 16:33	5°♐33'32	0°31'05	superior conj	7179 Dec 07 22:49	17°♏58'37 1°02'26
minimum elong	7178 Dec 25 19:08	5°♐44'43	0°30'47	minimum elong	7179 Dec 08 02:25	18°♏15'03 1°02'02
desc. node	7178 Dec 29 23:53	12°♐54'13			7179 Dec 14 17:19	0°♐
max. Earth dist.	7179 Jan 02 03:05	18°♐06'20	1.42794 AU	max. Earth dist.	7179 Dec 15 12:36	1°♐22'45 1.40847 AU
evening rise	7179 Jan 08 14:34	28°♐30'57		desc. node	7179 Dec 16 20:53	3°♐39'54
	7179 Jan 09 13:16	0°♑		evening rise	7179 Dec 20 02:52	9°♐04'30
	7179 Jan 29 22:15	0°♒			7180 Jan 02 14:11	0°♑
evening max el	7179 Feb 09 18:25	13°♒16'08	22°02'28	evening max el	7180 Jan 23 09:54	26°♑57'51 23°21'58
retrograde	7179 Feb 19 03:55	18°♒50'31			7180 Jan 26 18:29	0°♒
asc. node	7179 Feb 20 17:07	18°♒38'05		retrograde	7180 Feb 02 22:27	3°♒11'11
evening set	7179 Feb 23 16:03	17°♒01'13		evening set	7180 Feb 07 22:33	1°♒06'43
inferior conj	7179 Mar 01 00:00	10°♒41'20	2°27'04	asc. node	7180 Feb 07 14:10	1°♒23'49
minimum elong	7179 Feb 28 21:42	10°♒49'21	2°26'26		7180 Feb 09 02:56	30°♒
min. Earth dist.	7179 Feb 28 23:52	10°♒41'49	0.68279 AU	inferior conj	7180 Feb 13 08:22	24°♒40'45 1°48'33
morning rise	7179 Mar 06 03:11	4°♒30'24		minimum elong	7180 Feb 13 06:15	24°♒47'59 1°47'53
direct	7179 Mar 10 23:34	2°♒26'22		min. Earth dist.	7180 Feb 12 20:35	25°♒21'15 0.68252 AU
morning max el	7179 Mar 20 14:06	8°♒05'47	22°26'25	morning rise	7180 Feb 18 13:55	18°♒34'53
desc. node	7179 Mar 27 23:21	16°♒42'28		direct	7180 Feb 22 20:15	16°♒53'36
	7179 Apr 06 14:48	0°♓		morning max el	7180 Mar 02 06:12	21°♒44'17 21°03'28
morning set	7179 Apr 23 07:20	25°♓42'28			7180 Mar 09 06:39	0°♒
	7179 Apr 25 21:52	0°♈		desc. node	7180 Mar 13 20:19	6°♒12'38
max. Earth dist.	7179 Apr 28 07:14	4°♈00'40	1.40639 AU		7180 Mar 29 21:15	0°♓
				morning set	7180 Apr 01 19:35	4°♓33'42
superior conj	7179 May 06 02:31	17°♈37'38	-1°48'27	max. Earth dist.	7180 Apr 09 10:40	16°♓45'26 1.42675 AU
minimum elong	7179 May 06 08:02	18°♈02'29	1°47'58			
	7179 May 12 20:06	0°♉		superior conj	7180 Apr 16 13:48	28°♓38'29 -2°06'35
evening rise	7179 May 16 06:20	6°♉26'10		minimum elong	7180 Apr 16 17:26	28°♓53'59 2°06'29
asc. node	7179 May 19 16:15	12°♉48'56			7180 Apr 17 08:54	0°♈
	7179 May 30 08:27	0°♊		evening rise	7180 Apr 28 04:37	19°♈03'02
evening max el	7179 Jun 01 08:54	2°♊13'00	18°20'52		7180 May 04 08:31	0°♉
retrograde	7179 Jun 08 16:54	5°♊52'44		asc. node	7180 May 05 13:16	2°♉03'24
evening set	7179 Jun 10 23:51	5°♊32'12		evening max el	7180 May 14 20:08	15°♉11'48 18°06'21
inferior conj	7179 Jun 18 08:16	0°♊55'03	1°34'50	retrograde	7180 May 21 11:33	18°♉35'32
minimum elong	7179 Jun 18 11:08	0°♊49'05	1°33'50	evening set	7180 May 24 01:44	18°♉04'35
	7179 Jun 19 10:37	30°♋		inferior conj	7180 May 30 17:07	13°♉06'59 2°35'55
min. Earth dist.	7179 Jun 21 18:09	28°♉06'26	0.58682 AU	minimum elong	7180 May 30 20:10	12°♉59'38 2°35'07
desc. node	7179 Jun 23 22:43	26°♉30'12		min. Earth dist.	7180 Jun 02 22:01	10°♉03'14 0.60908 AU
morning rise	7179 Jun 25 19:14	25°♉22'49		morning rise	7180 Jun 06 12:17	7°♉11'06
direct	7179 Jul 01 22:54	23°♉42'16		desc. node	7180 Jun 09 19:44	5°♉32'11
	7179 Jul 14 18:57	0°♌		direct	7180 Jun 13 03:37	4°♉59'15
morning max el	7179 Jul 16 08:06	1°♌27'22	27°14'51	morning max el	7180 Jun 27 10:22	12°♉57'15 27°51'05
	7179 Aug 05 19:40	0°♍			7180 Jul 10 23:37	0°♌
asc. node	7179 Aug 15 15:33	19°♍00'23			7180 Jul 28 03:53	0°♍
morning set	7179 Aug 16 00:40	19°♍48'13		morning set	7180 Jul 30 05:09	4°♍10'51
	7179 Aug 20 18:01	0°♎		asc. node	7180 Aug 01 12:33	9°♍01'04
				max. Earth dist.	7180 Aug 05 04:33	16°♍56'27 1.31911 AU
superior conj	7179 Aug 23 01:36	5°♎07'18	1°09'51			
minimum elong	7179 Aug 22 23:20	4°♎54'46	1°09'27	superior conj	7180 Aug 06 12:27	19°♎51'42 0°49'28
max. Earth dist.	7179 Aug 22 18:53	4°♎30'04	1.31753 AU	minimum elong	7180 Aug 06 10:30	19°♎40'53 0°49'02
evening rise	7179 Aug 29 20:32	19°♎58'21			7180 Aug 11 03:00	0°♎
				evening rise	7180 Aug 13 07:11	4°♎42'10

	7180 Aug 26 14:52	0°♄			7181 Aug 02 22:07	0°♎	
desc. node	7180 Sep 05 18:51	13°♄57'47		evening max el	7181 Aug 21 08:28	27°♎32'21	23°34'03
evening max el	7180 Sep 08 20:37	17°♄09'30	25°09'41	desc. node	7181 Aug 23 15:55	29°♎36'22	
retrograde	7180 Sep 22 18:01	24°♄10'41			7181 Aug 24 03:41	0°♄	
evening set	7180 Sep 28 11:21	22°♄56'02		retrograde	7181 Sep 03 22:27	4°♄20'45	
min. Earth dist.	7180 Oct 03 08:05	20°♄15'03	0.57390 AU	evening set	7181 Sep 08 05:00	3°♄40'42	
inferior conj	7180 Oct 06 06:33	18°♄17'04	-5°21'54	min. Earth dist.	7181 Sep 14 18:20	0°♄34'53	0.55767 AU
minimum elong	7180 Oct 06 10:07	18°♄11'04	5°21'34		7181 Sep 15 17:53	30°♎	
morning rise	7180 Oct 14 11:10	14°♄05'28		inferior conj	7181 Sep 16 18:46	29°♎22'48	-5°24'35
direct	7180 Oct 16 22:52	13°♄47'22		minimum elong	7181 Sep 16 15:36	29°♎27'32	5°24'23
morning max el	7180 Oct 25 22:27	18°♄03'26	19°05'45	morning rise	7181 Sep 25 04:29	25°♎29'13	
asc. node	7180 Oct 28 11:57	20°♄49'31		direct	7181 Sep 28 01:09	25°♎09'02	
	7180 Nov 03 17:31	0°♌			7181 Oct 08 11:23	0°♄	
morning set	7180 Nov 11 16:52	14°♌58'30		morning max el	7181 Oct 08 12:33	0°♄02'43	20°14'22
	7180 Nov 19 07:37	0°♌		asc. node	7181 Oct 15 08:58	8°♄25'59	
				morning set	7181 Oct 26 22:32	29°♄35'47	
superior conj	7180 Nov 19 23:27	1°♌16'25	1°24'08		7181 Oct 27 03:16	0°♌	
minimum elong	7180 Nov 20 02:26	1°♌30'49	1°23'54				
max. Earth dist.	7180 Nov 26 18:23	13°♌55'55	1.38702 AU	superior conj	7181 Nov 03 13:30	15°♌12'42	1°36'56
evening rise	7180 Nov 30 13:26	20°♌37'25		minimum elong	7181 Nov 03 15:12	15°♌21'16	1°36'54
desc. node	7180 Dec 02 17:55	24°♌21'33		max. Earth dist.	7181 Nov 09 00:40	25°♌56'55	1.36622 AU
	7180 Dec 06 03:33	0°♊			7181 Nov 11 04:17	0°♌	
	7180 Dec 26 16:08	0°♊		evening rise	7181 Nov 12 20:40	3°♌05'54	
evening max el	7181 Jan 04 23:10	10°♊42'25	24°40'45	desc. node	7181 Nov 19 14:58	14°♌55'04	
retrograde	7181 Jan 16 13:17	17°♊28'07			7181 Nov 29 04:05	0°♊	
evening set	7181 Jan 22 02:10	15°♊09'41		evening max el	7181 Dec 18 12:01	24°♊28'22	25°51'52
asc. node	7181 Jan 24 11:12	12°♊44'41			7181 Dec 25 13:24	0°♊	
min. Earth dist.	7181 Jan 26 16:06	9°♊58'22	0.67836 AU	retrograde	7181 Dec 30 23:29	1°♊35'51	
inferior conj	7181 Jan 27 15:10	8°♊41'46	1°02'13		7182 Jan 04 20:40	30°♎	
minimum elong	7181 Jan 27 13:45	8°♊46'29	1°01'44	evening set	7182 Jan 06 01:14	29°♊06'10	
morning rise	7181 Feb 02 01:31	2°♊42'31		min. Earth dist.	7182 Jan 10 08:16	24°♊29'20	0.67047 AU
direct	7181 Feb 05 18:47	1°♊23'11		asc. node	7182 Jan 11 08:15	23°♊13'55	
morning max el	7181 Feb 13 06:06	5°♊35'01	19°52'26	inferior conj	7182 Jan 11 18:34	22°♊41'21	0°08'40
greatest brilliancy	7181 Feb 26 07:52	22°♊37'08	-0.6m	minimum elong	7182 Jan 11 18:21	22°♊42'04	0°08'38
desc. node	7181 Feb 28 17:17	26°♊09'14		transit middle	7182 Jan 11 18:21	22°♊42'04	0°08'38
	7181 Mar 03 06:56	0°♉		transit begin	7182 Jan 11 15:57	22°♊49'37	
morning set	7181 Mar 11 16:42	12°♉49'07		transit end	7182 Jan 11 20:44	22°♊34'32	
	7181 Mar 22 16:22	0°♉		morning rise	7182 Jan 17 11:59	16°♊50'34	
max. Earth dist.	7181 Mar 22 21:12	0°♉19'13	1.44255 AU	direct	7182 Jan 20 17:42	15°♊50'30	
				morning max el	7182 Jan 27 13:41	19°♊35'29	18°56'21
superior conj	7181 Mar 28 00:05	8°♉32'57	-2°10'13		7182 Feb 04 18:57	0°♊	
minimum elong	7181 Mar 27 22:08	8°♉25'01	2°10'12	desc. node	7182 Feb 15 14:17	16°♊25'11	
	7181 Apr 09 20:49	0°♉		morning set	7182 Feb 18 23:00	21°♊39'26	
evening rise	7181 Apr 10 08:06	0°♉48'06			7182 Feb 24 07:22	0°♉	
asc. node	7181 Apr 22 10:20	20°♉50'41		max. Earth dist.	7182 Mar 05 13:10	14°♉27'16	1.45212 AU
evening max el	7181 Apr 28 09:17	28°♉29'16	18°11'01				
	7181 Apr 30 02:20	0°♈		superior conj	7182 Mar 07 12:25	17°♉33'04	-1°54'22
retrograde	7181 May 04 18:48	1°♈51'44		minimum elong	7182 Mar 07 04:08	17°♉00'27	1°53'46
evening set	7181 May 07 15:53	1°♈08'35			7182 Mar 15 08:43	0°♉	
	7181 May 09 11:29	30°♎		evening rise	7182 Mar 22 12:55	11°♉34'46	
inferior conj	7181 May 13 18:18	25°♎52'09	3°11'03		7182 Apr 02 23:24	0°♎	
minimum elong	7181 May 13 20:14	25°♎46'51	3°10'43	asc. node	7182 Apr 09 07:23	9°♎01'38	
min. Earth dist.	7181 May 16 11:01	22°♎56'39	0.63061 AU	evening max el	7182 Apr 11 21:26	11°♎57'34	18°34'02
morning rise	7181 May 19 23:10	19°♎42'49		retrograde	7182 Apr 18 10:14	15°♎31'52	
direct	7181 May 26 18:13	17°♎07'13		evening set	7182 Apr 21 14:18	14°♎35'18	
desc. node	7181 May 27 16:44	17°♎09'58		inferior conj	7182 Apr 27 07:37	9°♎01'32	3°25'34
morning max el	7181 Jun 09 17:58	25°♎09'43	27°49'11	minimum elong	7182 Apr 27 08:07	9°♎00'02	3°25'30
	7181 Jun 14 04:00	0°♈		min. Earth dist.	7182 Apr 29 09:15	6°♎32'47	0.64948 AU
	7181 Jul 04 10:48	0°♈		morning rise	7182 May 03 01:11	2°♎46'16	
morning set	7181 Jul 14 03:18	18°♈12'36			7182 May 09 04:00	30°♎	
asc. node	7181 Jul 19 09:34	29°♈07'08		direct	7182 May 09 16:49	29°♉59'00	
max. Earth dist.	7181 Jul 19 09:20	29°♈05'51	1.32523 AU		7182 May 10 05:46	0°♎	
	7181 Jul 19 19:28	0°♈		desc. node	7182 May 14 13:45	1°♎13'58	
				morning max el	7182 May 23 03:55	7°♎54'09	27°12'29
superior conj	7181 Jul 21 20:34	4°♈24'13	0°25'01		7182 Jun 09 06:31	0°♈	
minimum elong	7181 Jul 21 19:24	4°♈17'57	0°24'42		7182 Jun 26 18:41	0°♈	
evening rise	7181 Jul 28 18:57	19°♈26'12		morning set	7182 Jun 27 16:14	1°♈43'54	

max. Earth dist.	7182 Jul 02 05:11	10° $\mathfrak{D}$ 46'40	1.33611 AU	max. Earth dist.	7183 Jun 14 14:06	22° $\mathbb{I}$ 00'15	1.35180 AU
					7183 Jun 18 15:01	0° $\mathfrak{D}$	
superior conj	7182 Jul 05 23:46	18° $\mathfrak{D}$ 37'29	-0°02'55	superior conj	7183 Jun 19 19:39	2° $\mathfrak{D}$ 25'10	-0°33'16
minimum elong	7182 Jul 05 23:55	18° $\mathfrak{D}$ 38'19	0°02'58	minimum elong	7183 Jun 19 21:34	2° $\mathfrak{D}$ 34'51	0°32'57
behind sun begin	7182 Jul 05 18:26	18° $\mathfrak{D}$ 09'22		asc. node	7183 Jun 23 03:38	9° $\mathfrak{D}$ 16'38	
behind sun end	7182 Jul 06 05:24	19° $\mathfrak{D}$ 07'18		evening rise	7183 Jun 27 13:54	18° $\mathfrak{D}$ 27'54	
asc. node	7182 Jul 06 06:37	19° $\mathfrak{D}$ 13'41			7183 Jul 03 09:05	0° $\mathfrak{Q}$	
	7182 Jul 11 07:56	0° $\mathfrak{Q}$		evening max el	7183 Jul 16 00:16	18° $\mathfrak{Q}$ 37'15	20°31'00
evening rise	7182 Jul 13 05:50	4° $\mathfrak{Q}$ 03'15		retrograde	7183 Jul 27 03:06	24° $\mathfrak{Q}$ 06'07	
	7182 Jul 27 11:13	0° $\mathfrak{P}$		desc. node	7183 Jul 28 10:01	24° $\mathfrak{Q}$ 01'59	
evening max el	7182 Aug 02 23:08	7° $\mathfrak{P}$ 50'57	21°56'38	evening set	7183 Jul 29 03:35	23° $\mathfrak{Q}$ 56'03	
desc. node	7182 Aug 10 12:59	13° $\mathfrak{P}$ 07'03		inferior conj	7183 Aug 07 08:40	19° $\mathfrak{Q}$ 59'00	-2°56'41
retrograde	7182 Aug 15 15:02	14° $\mathfrak{P}$ 08'02		minimum elong	7183 Aug 07 00:44	20° $\mathfrak{Q}$ 10'27	2°54'01
evening set	7182 Aug 18 10:55	13° $\mathfrak{P}$ 50'09		min. Earth dist.	7183 Aug 08 13:40	19° $\mathfrak{Q}$ 17'08	0.54841 AU
min. Earth dist.	7182 Aug 27 03:30	10° $\mathfrak{P}$ 05'32	0.54844 AU	morning rise	7183 Aug 15 21:18	15° $\mathfrak{Q}$ 54'09	
inferior conj	7182 Aug 27 15:32	9° $\mathfrak{P}$ 48'40	-4°34'51	direct	7183 Aug 19 22:21	15° $\mathfrak{Q}$ 19'01	
minimum elong	7182 Aug 27 06:42	10° $\mathfrak{P}$ 01'03	4°32'52	morning max el	7183 Sep 02 05:43	21° $\mathfrak{Q}$ 45'04	23°26'45
morning rise	7182 Sep 05 03:53	5° $\mathfrak{P}$ 59'13			7183 Sep 09 09:37	0° $\mathfrak{P}$	
direct	7182 Sep 08 12:57	5° $\mathfrak{P}$ 34'01		asc. node	7183 Sep 19 03:00	15° $\mathfrak{P}$ 47'25	
morning max el	7182 Sep 20 13:57	11° $\mathfrak{P}$ 13'38	21°43'37	morning set	7183 Sep 25 19:26	29° $\mathfrak{P}$ 13'20	
asc. node	7182 Oct 02 05:59	26° $\mathfrak{P}$ 49'00			7183 Sep 26 04:14	0° $\mathfrak{A}$	
	7182 Oct 04 01:14	0° $\mathfrak{A}$					
morning set	7182 Oct 11 08:02	14° $\mathfrak{A}$ 22'30		superior conj	7183 Oct 02 18:44	14° $\mathfrak{A}$ 14'59	1°40'13
				minimum elong	7183 Oct 02 17:50	14° $\mathfrak{A}$ 10'06	1°40'12
superior conj	7182 Oct 18 12:57	29° $\mathfrak{A}$ 35'12	1°41'57	max. Earth dist.	7183 Oct 05 09:57	19° $\mathfrak{A}$ 52'34	1.33390 AU
minimum elong	7182 Oct 18 13:15	29° $\mathfrak{A}$ 36'47	1°42'00	evening rise	7183 Oct 10 09:38	0° $\mathfrak{M}$ 08'26	
	7182 Oct 18 17:41	0° $\mathfrak{M}$			7183 Oct 10 07:57	0° $\mathfrak{M}$	
max. Earth dist.	7182 Oct 22 12:57	7° $\mathfrak{M}$ 49'22	1.34812 AU	desc. node	7183 Oct 24 09:06	25° $\mathfrak{M}$ 15'29	
evening rise	7182 Oct 26 20:44	16° $\mathfrak{M}$ 19'43			7183 Oct 27 10:05	0° $\mathfrak{X}$	
	7182 Nov 03 09:14	0° $\mathfrak{X}$		evening max el	7183 Nov 13 13:53	21° $\mathfrak{X}$ 36'20	27°21'39
desc. node	7182 Nov 06 12:03	5° $\mathfrak{X}$ 15'12		retrograde	7183 Nov 27 02:37	28° $\mathfrak{X}$ 54'58	
	7182 Nov 23 15:21	0° $\mathfrak{Z}$		evening set	7183 Dec 04 01:36	26° $\mathfrak{X}$ 18'33	
evening max el	7182 Dec 01 01:13	8° $\mathfrak{Z}$ 10'00	26°47'59	min. Earth dist.	7183 Dec 07 21:04	22° $\mathfrak{X}$ 50'06	0.64410 AU
retrograde	7182 Dec 14 04:14	15° $\mathfrak{Z}$ 27'35		inferior conj	7183 Dec 10 06:35	20° $\mathfrak{X}$ 17'05	-1°56'27
evening set	7182 Dec 20 17:51	12° $\mathfrak{Z}$ 51'15		minimum elong	7183 Dec 10 10:06	20° $\mathfrak{X}$ 07'41	1°54'57
min. Earth dist.	7182 Dec 24 18:42	8° $\mathfrak{Z}$ 49'06	0.65897 AU	asc. node	7183 Dec 16 02:21	15° $\mathfrak{X}$ 12'51	
inferior conj	7182 Dec 26 16:31	6° $\mathfrak{Z}$ 35'11	-0°51'20	morning rise	7183 Dec 16 20:04	14° $\mathfrak{X}$ 51'26	
minimum elong	7182 Dec 26 17:59	6° $\mathfrak{Z}$ 30'54	0°50'39	direct	7183 Dec 19 08:42	14° $\mathfrak{X}$ 18'46	
asc. node	7182 Dec 29 05:18	3° $\mathfrak{Z}$ 45'40		morning max el	7183 Dec 25 19:51	17° $\mathfrak{X}$ 42'18	17°53'54
morning rise	7183 Jan 01 19:05	0° $\mathfrak{Z}$ 55'26			7184 Jan 03 19:23	0° $\mathfrak{Z}$	
direct	7183 Jan 04 15:11	0° $\mathfrak{Z}$ 10'59		morning set	7184 Jan 11 22:49	13° $\mathfrak{Z}$ 34'08	
morning max el	7183 Jan 11 03:09	3° $\mathfrak{Z}$ 40'19	18°16'39	desc. node	7184 Jan 20 08:17	27° $\mathfrak{Z}$ 34'09	
	7183 Jan 29 04:07	0° $\mathfrak{A}$			7184 Jan 21 19:55	0° $\mathfrak{A}$	
morning set	7183 Jan 30 08:26	1° $\mathfrak{A}$ 54'10					
desc. node	7183 Feb 02 11:18	6° $\mathfrak{A}$ 55'12		superior conj	7184 Jan 25 08:24	5° $\mathfrak{A}$ 42'15	-0°35'15
				minimum elong	7184 Jan 25 04:18	5° $\mathfrak{A}$ 25'45	0°34'35
superior conj	7183 Feb 14 16:43	26° $\mathfrak{A}$ 18'59	-1°19'51	max. Earth dist.	7184 Jan 30 04:05	13° $\mathfrak{A}$ 23'20	1.44931 AU
minimum elong	7183 Feb 14 07:45	25° $\mathfrak{A}$ 43'45	1°18'47		7184 Feb 09 20:04	0° $\mathfrak{H}$	
max. Earth dist.	7183 Feb 16 08:25	28° $\mathfrak{A}$ 54'37	1.45444 AU	evening rise	7184 Feb 10 08:58	0° $\mathfrak{H}$ 49'31	
	7183 Feb 17 01:07	0° $\mathfrak{H}$		greatest brilliancy	7184 Feb 25 04:11	23° $\mathfrak{H}$ 08'20	-0.6m
evening rise	7183 Mar 02 18:56	21° $\mathfrak{H}$ 28'30			7184 Feb 29 23:53	0° $\mathfrak{Y}$	
	7183 Mar 08 05:49	0° $\mathfrak{Y}$		evening max el	7184 Mar 08 10:17	9° $\mathfrak{Y}$ 08'50	20°10'07
greatest brilliancy	7183 Mar 14 00:51	8° $\mathfrak{Y}$ 58'01	-0.8m	asc. node	7184 Mar 13 01:31	12° $\mathfrak{Y}$ 49'16	
evening max el	7183 Mar 26 06:20	25° $\mathfrak{Y}$ 32'11	19°14'17	retrograde	7184 Mar 16 04:42	13° $\mathfrak{Y}$ 39'55	
asc. node	7183 Mar 27 04:27	26° $\mathfrak{Y}$ 25'49		evening set	7184 Mar 20 00:52	12° $\mathfrak{Y}$ 14'18	
retrograde	7183 Apr 02 06:26	29° $\mathfrak{Y}$ 29'57		inferior conj	7184 Mar 25 09:18	6° $\mathfrak{Y}$ 10'41	3°09'57
evening set	7183 Apr 05 18:04	28° $\mathfrak{Y}$ 19'08		minimum elong	7184 Mar 25 07:36	6° $\mathfrak{Y}$ 16'29	3°09'41
inferior conj	7183 Apr 11 05:36	22° $\mathfrak{Y}$ 29'31	3°24'05	min. Earth dist.	7184 Mar 26 05:09	5° $\mathfrak{Y}$ 03'27	0.67504 AU
minimum elong	7183 Apr 11 04:49	22° $\mathfrak{Y}$ 32'02	3°24'00		7184 Mar 30 11:55	30° $\mathfrak{R}$ $\mathfrak{H}$	
min. Earth dist.	7183 Apr 12 15:51	20° $\mathfrak{Y}$ 38'58	0.66447 AU	morning rise	7184 Mar 30 14:08	29° $\mathfrak{H}$ 54'58	
morning rise	7183 Apr 16 15:11	16° $\mathfrak{Y}$ 12'47		direct	7184 Apr 05 08:34	27° $\mathfrak{H}$ 20'25	
direct	7183 Apr 22 21:58	13° $\mathfrak{Y}$ 26'39			7184 Apr 12 01:48	0° $\mathfrak{Y}$	
desc. node	7183 May 01 10:45	17° $\mathfrak{Y}$ 14'06		morning max el	7184 Apr 16 23:01	4° $\mathfrak{Y}$ 17'02	24°46'42
morning max el	7183 May 05 13:54	20° $\mathfrak{Y}$ 59'46	26°08'27	desc. node	7184 Apr 17 07:44	4° $\mathfrak{Y}$ 39'17	
	7183 May 13 08:37	0° $\mathfrak{B}$			7184 May 06 16:19	0° $\mathfrak{B}$	
	7183 Jun 02 10:50	0° $\mathbb{I}$		morning set	7184 May 22 22:52	26° $\mathfrak{B}$ 33'17	
morning set	7183 Jun 10 16:20	14° $\mathbb{I}$ 35'05					

	7184 May 24 21:10	0°♂		desc. node	7185 Apr 04 04:44	23°♂05'46	
max. Earth dist.	7184 May 26 13:40	3°♂04'05	1.37157 AU		7185 Apr 09 14:24	0°♂	
					7185 Apr 29 18:19	0°♂	
superior conj	7184 Jun 02 05:10	15°♂39'10	-1°04'25	morning set	7185 May 04 06:08	7°♂24'06	
minimum elong	7184 Jun 02 08:59	15°♂57'50	1°03'50	max. Earth dist.	7185 May 08 09:31	14°♂28'30	1.39363 AU
asc. node	7184 Jun 09 00:41	29°♂12'20					
	7184 Jun 09 10:10	0°♂		superior conj	7185 May 16 00:24	28°♂09'53	-1°33'48
evening rise	7184 Jun 10 16:47	2°♂33'27		minimum elong	7185 May 16 05:43	28°♂34'34	1°33'12
	7184 Jun 27 11:48	0°♂			7185 May 17 00:03	0°♂	
evening max el	7184 Jun 27 14:19	0°♂06'12	19°24'12	evening rise	7185 May 25 11:34	16°♂12'04	
retrograde	7184 Jul 07 00:06	4°♂44'08		asc. node	7185 May 26 21:42	18°♂56'11	
evening set	7184 Jul 08 21:26	4°♂33'45			7185 Jun 01 21:32	0°♂	
desc. node	7184 Jul 14 07:01	2°♂26'26		evening max el	7185 Jun 10 15:27	12°♂16'59	18°38'05
inferior conj	7184 Jul 17 12:43	0°♂26'31	-0°59'00	retrograde	7185 Jun 18 14:40	16°♂13'49	
minimum elong	7184 Jul 17 10:05	0°♂30'49	0°58'03	evening set	7185 Jun 20 17:12	15°♂58'12	
	7184 Jul 18 04:59	30°♂		inferior conj	7185 Jun 28 12:50	11°♂32'53	0°46'24
min. Earth dist.	7184 Jul 20 02:35	28°♂46'28	0.55778 AU	minimum elong	7185 Jun 28 14:31	11°♂29'41	0°45'43
morning rise	7184 Jul 25 20:04	25°♂49'06		desc. node	7185 Jul 01 04:03	9°♂32'55	
direct	7184 Jul 30 16:46	24°♂55'39		min. Earth dist.	7185 Jul 01 20:02	9°♂03'39	0.57476 AU
	7184 Aug 11 11:52	0°♂		morning rise	7185 Jul 06 08:22	6°♂18'25	
morning max el	7184 Aug 13 18:33	2°♂01'16	25°10'28	direct	7185 Jul 12 01:40	4°♂56'38	
	7184 Sep 02 07:28	0°♂		morning max el	7185 Jul 26 10:43	12°♂31'17	26°37'50
asc. node	7184 Sep 05 00:01	5°♂12'04			7185 Aug 09 03:33	0°♂	
morning set	7184 Sep 09 07:06	14°♂03'22		asc. node	7185 Aug 22 21:01	24°♂54'59	
				morning set	7185 Aug 24 17:19	28°♂46'35	
					7185 Aug 25 07:08	0°♂	
superior conj	7184 Sep 16 04:27	29°♂04'33	1°32'33				
minimum elong	7184 Sep 16 02:41	28°♂54'50	1°32'23	superior conj	7185 Aug 31 16:00	13°♂56'30	1°19'33
	7184 Sep 16 14:33	0°♂		minimum elong	7185 Aug 31 13:47	13°♂44'15	1°19'13
max. Earth dist.	7184 Sep 17 14:34	2°♂11'19	1.32398 AU	max. Earth dist.	7185 Aug 31 23:48	14°♂39'39	1.31852 AU
evening rise	7184 Sep 23 07:58	14°♂22'44		evening rise	7185 Sep 07 12:51	28°♂53'31	
	7184 Oct 01 09:22	0°♂			7185 Sep 08 01:30	0°♂	
desc. node	7184 Oct 10 06:08	14°♂47'35			7185 Sep 24 15:16	0°♂	
	7184 Oct 21 14:45	0°♂		desc. node	7185 Sep 27 03:10	3°♂39'10	
evening max el	7184 Oct 25 23:54	4°♂34'16	27°26'34	evening max el	7185 Oct 08 04:42	16°♂50'20	26°58'30
retrograde	7184 Nov 08 18:13	11°♂49'31		retrograde	7185 Oct 22 02:13	24°♂00'48	
evening set	7184 Nov 15 21:30	9°♂22'10		evening set	7185 Oct 29 01:31	21°♂53'56	
min. Earth dist.	7184 Nov 19 13:28	6°♂23'10	0.62615 AU	min. Earth dist.	7185 Nov 01 19:06	19°♂14'41	0.60590 AU
inferior conj	7184 Nov 22 09:54	3°♂40'28	-3°04'01	inferior conj	7185 Nov 04 23:08	16°♂35'45	-4°09'02
minimum elong	7184 Nov 22 15:32	3°♂27'02	3°01'56	minimum elong	7185 Nov 05 06:03	16°♂21'14	4°07'03
	7184 Nov 26 17:03	30°♂		morning rise	7185 Nov 12 12:51	11°♂48'20	
morning rise	7184 Nov 29 11:31	28°♂32'21		direct	7185 Nov 14 18:40	11°♂28'41	
direct	7184 Dec 01 19:12	28°♂07'50		asc. node	7185 Nov 18 20:23	12°♂36'35	
asc. node	7184 Dec 01 23:22	28°♂07'59		morning max el	7185 Nov 22 02:38	15°♂07'22	18°02'26
	7184 Dec 06 17:17	0°♂			7185 Dec 02 08:49	0°♂	
morning max el	7184 Dec 08 12:48	1°♂34'30	17°48'47	morning set	7185 Dec 07 19:06	9°♂55'14	
morning set	7184 Dec 24 12:30	26°♂21'04					
	7184 Dec 26 14:00	0°♂		superior conj	7185 Dec 17 17:30	28°♂04'33	0°45'33
				minimum elong	7185 Dec 17 20:46	28°♂19'04	0°45'09
superior conj	7185 Jan 05 00:11	16°♂16'44	0°08'48		7185 Dec 18 19:40	0°♂	
minimum elong	7185 Jan 05 01:03	16°♂20'22	0°08'45	desc. node	7185 Dec 24 02:19	9°♂04'48	
behind sun begin	7185 Jan 04 17:25	15°♂48'16		max. Earth dist.	7185 Dec 25 08:37	11°♂11'45	1.42004 AU
behind sun end	7185 Jan 05 08:41	16°♂52'24		evening rise	7185 Dec 30 21:32	20°♂14'13	
desc. node	7185 Jan 06 05:18	18°♂18'39			7186 Jan 06 03:16	0°♂	
max. Earth dist.	7185 Jan 11 20:51	27°♂34'26	1.43739 AU		7186 Jan 27 09:56	0°♂	
	7185 Jan 13 09:06	0°♂		evening max el	7186 Feb 02 02:04	6°♂25'37	22°35'54
evening rise	7185 Jan 19 20:55	10°♂13'00		retrograde	7186 Feb 11 23:18	12°♂17'45	
	7185 Feb 02 00:25	0°♂		asc. node	7186 Feb 14 19:35	11°♂36'22	
evening max el	7185 Feb 19 08:37	22°♂46'11	21°18'42	evening set	7186 Feb 16 16:18	10°♂21'58	
asc. node	7185 Feb 27 22:33	27°♂57'02		inferior conj	7186 Feb 22 00:51	3°♂58'45	2°11'44
retrograde	7185 Feb 28 02:54	27°♂57'13		minimum elong	7186 Feb 21 22:35	4°♂06'40	2°11'04
evening set	7185 Mar 04 08:49	26°♂16'29		min. Earth dist.	7186 Feb 21 19:41	4°♂16'45	0.68314 AU
inferior conj	7185 Mar 09 16:24	20°♂01'25	2°45'23		7186 Feb 25 01:26	30°♂	
minimum elong	7185 Mar 09 14:11	20°♂09'06	2°44'52	morning rise	7186 Feb 27 04:44	27°♂49'36	
min. Earth dist.	7185 Mar 09 23:11	19°♂37'52	0.68119 AU	direct	7186 Mar 03 18:57	25°♂55'19	
morning rise	7185 Mar 14 19:24	13°♂48'17			7186 Mar 11 14:19	0°♂	
direct	7185 Mar 19 23:51	11°♂32'09		morning max el	7186 Mar 12 21:01	1°♂13'44	21°49'53
morning max el	7185 Mar 30 08:23	17°♂41'22	23°17'23				

desc. node	7186 Mar 22 01:43	12° $\text{K}$ 16'32		desc. node	7187 Mar 08 22:42	1° $\text{K}$ 59'01	
	7186 Apr 03 11:09	0° $\text{Y}$		morning set	7187 Mar 24 13:01	25° $\text{K}$ 25'17	
morning set	7186 Apr 14 09:43	16° $\text{Y}$ 57'12			7187 Mar 27 11:27	0° $\text{Y}$	
max. Earth dist.	7186 Apr 20 08:29	26° $\text{Y}$ 39'31	1.41541 AU	max. Earth dist.	7187 Apr 02 14:40	9° $\text{Y}$ 45'14	1.43418 AU
	7186 Apr 22 08:21	0° $\text{B}$					
superior conj	7186 Apr 28 00:45	9° $\text{B}$ 46'57	-1°57'32	superior conj	7187 Apr 09 01:37	20° $\text{Y}$ 19'54	-2°10'17
minimum elong	7186 Apr 28 05:54	10° $\text{B}$ 09'35	1°57'13	minimum elong	7187 Apr 09 03:19	20° $\text{Y}$ 26'56	2°10'16
evening rise	7186 May 08 18:36	29° $\text{B}$ 14'36			7187 Apr 14 18:48	0° $\text{B}$	
	7186 May 09 04:27	0° $\text{II}$		evening rise	7187 Apr 21 09:26	11° $\text{B}$ 30'08	
asc. node	7186 May 13 18:44	8° $\text{II}$ 23'20		asc. node	7187 Apr 30 15:47	27° $\text{B}$ 27'00	
evening max el	7186 May 25 00:11	25° $\text{II}$ 01'50	18°12'21		7187 May 02 06:23	0° $\text{II}$	
retrograde	7186 May 31 23:49	28° $\text{II}$ 32'51		evening max el	7187 May 08 12:43	8° $\text{II}$ 09'52	18°06'05
evening set	7186 Jun 03 09:49	28° $\text{II}$ 08'16		retrograde	7187 May 15 00:14	11° $\text{II}$ 30'57	
inferior conj	7186 Jun 10 10:34	23° $\text{II}$ 22'39	2°04'12	evening set	7187 May 17 17:30	10° $\text{II}$ 54'54	
minimum elong	7186 Jun 10 13:45	23° $\text{II}$ 15'35	2°03'13	inferior conj	7187 May 24 02:52	5° $\text{II}$ 49'17	2°53'39
min. Earth dist.	7186 Jun 13 19:43	20° $\text{II}$ 24'13	0.59617 AU	minimum elong	7187 May 24 05:32	5° $\text{II}$ 42'28	2°53'03
morning rise	7186 Jun 17 14:44	17° $\text{II}$ 38'49		min. Earth dist.	7187 May 27 03:16	2° $\text{II}$ 46'23	0.61855 AU
desc. node	7186 Jun 18 01:04	17° $\text{II}$ 24'03			7187 May 30 08:23	30° $\text{R}$ $\text{B}$	
direct	7186 Jun 24 00:24	15° $\text{II}$ 44'07		morning rise	7187 May 30 15:41	29° $\text{B}$ 46'52	
morning max el	7186 Jul 08 09:12	23° $\text{II}$ 36'37	27°34'51	desc. node	7187 Jun 04 22:06	27° $\text{B}$ 30'10	
	7186 Jul 14 03:00	0° $\text{B}$		direct	7187 Jun 06 09:48	27° $\text{B}$ 23'24	
	7186 Aug 02 07:50	0° $\Omega$			7187 Jun 14 01:30	0° $\text{II}$	
morning set	7186 Aug 09 00:25	13° $\Omega$ 18'13		morning max el	7187 Jun 20 13:46	5° $\text{II}$ 24'04	27°54'43
asc. node	7186 Aug 09 18:02	14° $\Omega$ 50'42			7187 Jul 09 01:06	0° $\text{B}$	
max. Earth dist.	7186 Aug 15 10:15	27° $\Omega$ 09'13	1.31760 AU	morning set	7187 Jul 24 02:27	27° $\text{B}$ 32'05	
					7187 Jul 25 07:11	0° $\Omega$	
superior conj	7186 Aug 16 03:39	28° $\Omega$ 45'22	1°01'44	asc. node	7187 Jul 27 15:03	4° $\Omega$ 53'52	
minimum elong	7186 Aug 16 01:27	28° $\Omega$ 33'13	1°01'19	max. Earth dist.	7187 Jul 29 18:09	9° $\Omega$ 28'31	1.32116 AU
	7186 Aug 16 17:08	0° $\text{np}$					
evening rise	7186 Aug 22 21:59	13° $\text{np}$ 34'22		superior conj	7187 Jul 31 13:33	13° $\Omega$ 25'05	0°39'33
	7186 Aug 31 03:09	0° $\underline{\Omega}$		minimum elong	7187 Jul 31 11:52	13° $\Omega$ 15'51	0°39'10
desc. node	7186 Sep 14 00:13	21° $\underline{\Omega}$ 34'09		evening rise	7187 Aug 07 09:20	28° $\Omega$ 18'40	
evening max el	7186 Sep 20 02:14	28° $\underline{\Omega}$ 17'04	25°57'24		7187 Aug 08 04:23	0° $\text{np}$	
	7186 Sep 22 00:11	0° $\text{ml}$			7187 Aug 25 01:14	0° $\underline{\Omega}$	
retrograde	7186 Oct 04 00:58	5° $\text{ml}$ 22'03		desc. node	7187 Aug 31 21:16	8° $\underline{\Omega}$ 10'25	
evening set	7186 Oct 10 08:48	3° $\text{ml}$ 46'46		evening max el	7187 Sep 01 16:32	8° $\underline{\Omega}$ 57'48	24°30'22
min. Earth dist.	7186 Oct 14 15:00	1° $\text{ml}$ 11'28	0.58509 AU	retrograde	7187 Sep 15 12:02	15° $\underline{\Omega}$ 54'24	
	7186 Oct 16 06:43	30° $\text{R}$ $\underline{\Omega}$		evening set	7187 Sep 20 15:31	14° $\underline{\Omega}$ 55'34	
inferior conj	7186 Oct 17 18:48	28° $\underline{\Omega}$ 53'40	-5°02'16	min. Earth dist.	7187 Sep 26 03:37	12° $\underline{\Omega}$ 05'55	0.56632 AU
minimum elong	7186 Oct 18 00:41	28° $\underline{\Omega}$ 42'56	5°01'16	inferior conj	7187 Sep 28 18:26	10° $\underline{\Omega}$ 26'21	-5°28'45
morning rise	7186 Oct 25 18:52	24° $\underline{\Omega}$ 28'47		minimum elong	7187 Sep 28 19:26	10° $\underline{\Omega}$ 24'45	5°28'43
direct	7186 Oct 28 02:58	24° $\underline{\Omega}$ 10'57		morning rise	7187 Oct 07 01:33	6° $\underline{\Omega}$ 23'05	
morning max el	7186 Nov 05 09:46	28° $\underline{\Omega}$ 10'58	18°36'23	direct	7187 Oct 09 16:42	6° $\underline{\Omega}$ 04'17	
asc. node	7186 Nov 05 17:24	28° $\underline{\Omega}$ 29'40		morning max el	7187 Oct 19 06:44	10° $\underline{\Omega}$ 35'25	19°32'16
	7186 Nov 07 03:07	0° $\text{ml}$		asc. node	7187 Oct 23 14:26	15° $\underline{\Omega}$ 32'38	
morning set	7186 Nov 21 13:28	24° $\text{ml}$ 01'51			7187 Nov 01 07:58	0° $\text{ml}$	
	7186 Nov 24 15:17	0° $\text{x}$		morning set	7187 Nov 05 15:54	8° $\text{ml}$ 30'34	
superior conj	7186 Nov 30 08:10	10° $\text{x}$ 53'14	1°12'46	superior conj	7187 Nov 13 15:02	24° $\text{ml}$ 28'35	1°30'35
minimum elong	7186 Nov 30 11:38	11° $\text{x}$ 09'29	1°12'26	minimum elong	7187 Nov 13 17:31	24° $\text{ml}$ 40'48	1°30'27
max. Earth dist.	7186 Dec 07 15:44	24° $\text{x}$ 07'17	1.39941 AU		7187 Nov 16 11:20	0° $\text{x}$	
desc. node	7186 Dec 10 23:20	29° $\text{x}$ 49'04		max. Earth dist.	7187 Nov 19 21:21	6° $\text{x}$ 25'26	1.37795 AU
	7186 Dec 11 01:55	0° $\text{Z}$		evening rise	7187 Nov 23 15:01	13° $\text{x}$ 10'27	
evening rise	7186 Dec 11 19:13	1° $\text{Z}$ 12'46		desc. node	7187 Nov 27 20:23	20° $\text{x}$ 27'49	
	7186 Dec 30 11:51	0° $\approx$			7187 Dec 03 16:47	0° $\text{Z}$	
evening max el	7187 Jan 15 16:25	20° $\approx$ 08'43	23°56'03		7187 Dec 25 12:27	0° $\approx$	
retrograde	7187 Jan 26 16:26	26° $\approx$ 37'08		evening max el	7187 Dec 29 05:35	3° $\approx$ 55'21	25°12'28
evening set	7187 Jan 31 21:46	24° $\approx$ 26'47		retrograde	7188 Jan 10 05:16	10° $\approx$ 51'02	
asc. node	7187 Feb 01 16:38	23° $\approx$ 43'50		evening set	7188 Jan 15 23:40	8° $\approx$ 27'37	
min. Earth dist.	7187 Feb 05 16:17	18° $\approx$ 55'32	0.68119 AU	asc. node	7188 Jan 19 13:41	4° $\approx$ 37'35	
inferior conj	7187 Feb 06 08:48	17° $\approx$ 59'24	1°29'52	min. Earth dist.	7188 Jan 20 10:40	3° $\approx$ 30'55	0.67547 AU
minimum elong	7187 Feb 06 06:55	18° $\approx$ 05'47	1°29'14	inferior conj	7188 Jan 21 14:25	2° $\approx$ 00'38	0°40'25
morning rise	7187 Feb 11 16:05	11° $\approx$ 55'52		minimum elong	7188 Jan 21 13:26	2° $\approx$ 03'49	0°40'05
direct	7187 Feb 15 16:43	10° $\approx$ 24'00			7188 Jan 23 04:14	30° $\text{R}$ $\text{Z}$	
morning max el	7187 Feb 23 16:11	14° $\approx$ 56'57	20°31'28	morning rise	7188 Jan 27 03:29	26° $\text{Z}$ 04'39	
	7187 Mar 07 13:27	0° $\text{K}$		direct	7188 Jan 30 15:45	24° $\text{Z}$ 53'42	
				morning max el	7188 Feb 06 19:26	28° $\text{Z}$ 52'17	19°26'40

	7188 Feb 07 21:33	0°♊		asc. node	7189 Jan 05 10:44	15°♊00'04	
greatest brilliancy	7188 Feb 19 18:38	15°♊59'43	-0.7m	morning rise	7189 Jan 10 12:48	10°♊11'35	
desc. node	7188 Feb 23 19:43	22°♊04'57		direct	7189 Jan 13 14:15	9°♊18'34	
	7188 Feb 29 00:01	0°♋		morning max el	7189 Jan 20 05:49	12°♊55'14	18°37'31
morning set	7188 Mar 02 11:05	3°♋47'29			7189 Feb 01 18:19	0°♋	
max. Earth dist.	7188 Mar 15 04:19	23°♋37'43	1.44758 AU	desc. node	7189 Feb 09 16:43	12°♋27'14	
				morning set	7189 Feb 10 03:46	13°♋10'52	
superior conj	7188 Mar 19 01:44	29°♋48'50	-2°06'00		7189 Feb 20 20:31	0°♌	
minimum elong	7188 Mar 18 20:48	29°♋29'06	2°05'49				
	7188 Mar 19 04:32	0°♍		superior conj	7189 Feb 26 08:17	8°♌36'01	-1°41'39
evening rise	7188 Apr 02 03:40	22°♍50'59		minimum elong	7189 Feb 25 22:47	7°♌58'48	1°40'46
	7188 Apr 06 10:20	0°♎		max. Earth dist.	7189 Feb 25 22:29	7°♌57'36	1.45404 AU
asc. node	7188 Apr 16 12:50	15°♎59'55			7189 Mar 11 21:49	0°♏	
evening max el	7188 Apr 21 01:49	21°♎32'53	18°18'31	evening rise	7189 Mar 13 22:31	3°♏14'07	
retrograde	7188 Apr 27 11:28	24°♎58'34		greatest brilliancy	7189 Mar 22 03:11	16°♏17'55	-0.8m
evening set	7188 Apr 30 11:36	24°♎09'37			7189 Mar 31 06:53	0°♐	
inferior conj	7188 May 06 09:41	18°♎45'25	3°19'24	asc. node	7189 Apr 03 09:52	3°♐52'28	
minimum elong	7188 May 06 11:01	18°♎41'37	3°19'12	evening max el	7189 Apr 04 12:47	5°♐04'15	18°49'01
min. Earth dist.	7188 May 08 20:03	15°♎59'47	0.63918 AU	retrograde	7189 Apr 11 05:28	8°♐47'24	
morning rise	7188 May 12 09:23	12°♎33'02		evening set	7189 Apr 14 12:39	7°♐44'47	
direct	7188 May 19 03:47	9°♎51'09		inferior conj	7189 Apr 20 03:06	2°♐03'46	3°26'40
desc. node	7188 May 21 19:08	10°♎13'04		minimum elong	7189 Apr 20 03:02	2°♐04'01	3°26'36
morning max el	7188 Jun 01 22:38	17°♎51'01	27°37'22		7189 Apr 21 18:55	30°♑♏	
	7188 Jun 12 02:30	0°♐		min. Earth dist.	7189 Apr 21 22:02	29°♑50'30	0.65638 AU
	7188 Jun 30 21:59	0°♑		morning rise	7189 Apr 25 16:52	25°♑47'19	
morning set	7188 Jul 06 21:03	11°♑21'24		direct	7189 May 02 05:08	22°♑59'24	
max. Earth dist.	7188 Jul 11 19:43	21°♑27'01	1.32935 AU	desc. node	7189 May 08 16:09	25°♑10'38	
asc. node	7188 Jul 13 12:05	25°♑00'11			7189 May 14 14:12	0°♒	
				morning max el	7189 May 15 09:08	0°♒47'05	26°48'06
superior conj	7188 Jul 14 19:50	27°♑49'46	0°13'32		7189 Jun 06 03:08	0°♓	
minimum elong	7188 Jul 14 19:11	27°♑46'14	0°13'20	morning set	7189 Jun 20 05:06	24°♓37'39	
behind sun begin	7188 Jul 14 16:11	27°♑30'10			7189 Jun 22 23:39	0°♔	
behind sun end	7188 Jul 14 22:10	28°♑02'18		max. Earth dist.	7189 Jun 24 11:24	2°♔57'25	1.34225 AU
	7188 Jul 15 20:04	0°♕					
evening rise	7188 Jul 21 20:59	13°♕00'20		superior conj	7189 Jun 28 20:18	11°♔53'19	-0°15'34
	7188 Jul 30 10:46	0°♖		minimum elong	7189 Jun 28 21:09	11°♔57'46	0°15'28
evening max el	7188 Aug 13 04:27	19°♖13'45	22°51'47	behind sun begin	7189 Jun 28 19:36	11°♔49'43	
desc. node	7188 Aug 17 18:19	22°♖58'25		behind sun end	7189 Jun 28 22:42	12°♔05'48	
retrograde	7188 Aug 26 10:37	25°♖51'03		asc. node	7189 Jun 30 09:06	15°♔05'46	
evening set	7188 Aug 30 01:43	25°♖22'13		evening rise	7189 Jul 06 06:59	27°♔33'27	
min. Earth dist.	7188 Sep 06 12:35	22°♖01'45	0.55272 AU		7189 Jul 07 11:12	0°♗	
inferior conj	7188 Sep 07 22:59	21°♖12'26	-5°10'18	evening max el	7189 Jul 25 22:45	29°♗40'50	21°18'05
minimum elong	7188 Sep 07 16:51	21°♖21'15	5°09'27		7189 Jul 26 06:39	0°♘	
morning rise	7188 Sep 16 10:04	17°♖23'08		desc. node	7189 Aug 04 15:22	5°♘25'49	
direct	7188 Sep 19 11:55	17°♖01'06		retrograde	7189 Aug 07 00:27	5°♘39'31	
morning max el	7188 Sep 30 15:14	22°♖13'06	20°50'13	evening set	7189 Aug 09 09:40	5°♘26'21	
	7188 Oct 07 04:09	0°♙		inferior conj	7189 Aug 18 16:29	1°♘28'07	-3°57'50
asc. node	7188 Oct 09 11:29	3°♙30'08		minimum elong	7189 Aug 18 07:09	1°♘41'12	3°55'14
morning set	7188 Oct 19 23:26	23°♙12'28		min. Earth dist.	7189 Aug 18 21:54	1°♘20'30	0.54720 AU
	7188 Oct 23 05:48	0°♚			7189 Aug 21 08:24	30°♙♗	
superior conj	7188 Oct 27 09:29	8°♚36'54	1°39'57	morning rise	7189 Aug 27 05:25	27°♙34'51	
minimum elong	7188 Oct 27 10:35	8°♚42'32	1°39'58	direct	7189 Aug 30 20:33	27°♙06'27	
max. Earth dist.	7188 Nov 01 05:59	18°♚21'09	1.35805 AU		7189 Sep 08 14:31	0°♛	
evening rise	7188 Nov 05 05:51	25°♚58'48		morning max el	7189 Sep 12 12:05	3°♛06'03	22°26'33
	7188 Nov 07 10:23	0°♜		asc. node	7189 Sep 26 08:30	22°♛09'31	
desc. node	7188 Nov 13 17:25	10°♜56'00			7189 Sep 30 11:59	0°♞	
	7188 Nov 26 03:58	0°♞		morning set	7189 Oct 04 09:58	8°♞01'41	
evening max el	7188 Dec 10 18:34	17°♞40'04	26°18'02	superior conj	7189 Oct 11 11:59	23°♞07'59	1°42'00
retrograde	7188 Dec 23 13:03	24°♞52'42		minimum elong	7189 Oct 11 11:44	23°♞06'41	1°42'02
evening set	7188 Dec 29 20:14	22°♞19'18			7189 Oct 14 18:38	0°♟	
min. Earth dist.	7189 Jan 03 00:30	17°♞57'34	0.66604 AU	max. Earth dist.	7189 Oct 14 21:44	0°♟15'56	1.34149 AU
inferior conj	7189 Jan 04 15:44	15°♞57'46	-0°16'02	evening rise	7189 Oct 19 11:49	9°♟28'26	
minimum elong	7189 Jan 04 16:10	15°♞56'27	0°15'47		7189 Oct 30 21:48	0°♠	
transit middle	7189 Jan 04 16:10	15°♞56'27	0°15'47	desc. node	7189 Oct 31 14:27	1°♠08'15	
transit begin	7189 Jan 04 15:36	15°♞58'11			7189 Nov 22 00:50	0°♢	
transit end	7189 Jan 04 16:43	15°♞54'44		evening max el	7189 Nov 23 07:25	1°♢15'15	27°05'23



retrograde	7189 Dec 06 15:13	8°♄34'50		retrograde	7190 Nov 19 11:06	21°♄48'52	
evening set	7189 Dec 13 09:22	5°♄57'07		evening set	7190 Nov 26 12:29	19°♄15'04	
min. Earth dist.	7189 Dec 17 07:39	2°♄09'49	0.65303 AU	min. Earth dist.	7190 Nov 30 06:04	15°♄59'46	0.63672 AU
inferior conj	7189 Dec 19 10:35	29°♄46'28	-1°18'30	inferior conj	7190 Dec 02 20:26	13°♄21'05	-2°25'07
minimum elong	7189 Dec 19 12:53	29°♄39'58	1°17'26	minimum elong	7190 Dec 03 00:53	13°♄09'44	2°23'18
	7189 Dec 19 05:47	30°♄37'00		morning rise	7190 Dec 09 14:59	8°♄02'28	
asc. node	7189 Dec 23 07:48	25°♄48'51		asc. node	7190 Dec 10 04:50	7°♄50'33	
morning rise	7189 Dec 25 17:38	24°♄12'38		direct	7190 Dec 12 01:03	7°♄33'50	
direct	7189 Dec 28 10:12	23°♄33'47		morning max el	7190 Dec 18 14:14	10°♄58'03	17°49'30
morning max el	7190 Jan 03 21:02	26°♄59'32	18°04'54		7190 Dec 31 12:07	0°♄	
	7190 Jan 06 13:02	0°♄		morning set	7191 Jan 04 02:54	6°♄12'56	
morning set	7190 Jan 22 01:47	24°♄02'18		desc. node	7191 Jan 14 10:41	23°♄42'30	
	7190 Jan 25 17:11	0°♄					
desc. node	7190 Jan 27 13:42	3°♄01'02		superior conj	7191 Jan 16 16:13	27°♄22'46	-0°15'59
				minimum elong	7191 Jan 16 14:28	27°♄15'35	0°15'39
superior conj	7190 Feb 05 15:07	17°♄31'24	-1°01'30	behind sun begin	7191 Jan 16 12:11	27°♄06'15	
minimum elong	7190 Feb 05 07:51	17°♄02'41	1°00'30	behind sun end	7191 Jan 16 16:45	27°♄24'56	
max. Earth dist.	7190 Feb 08 17:50	22°♄25'42	1.45308 AU		7191 Jan 18 06:48	0°♄	
	7190 Feb 13 14:02	0°♄		max. Earth dist.	7191 Jan 22 12:02	6°♄46'50	1.44492 AU
evening rise	7190 Feb 21 20:18	12°♄49'26		evening rise	7191 Feb 01 07:24	22°♄06'12	
	7190 Mar 05 00:40	0°♄			7191 Feb 06 11:42	0°♄	
greatest brilliancy	7190 Mar 07 00:12	2°♄58'37	-0.7m		7191 Feb 27 19:03	0°♄	
evening max el	7190 Mar 18 19:36	18°♄39'17	19°36'17	evening max el	7191 Mar 01 21:12	2°♄16'28	20°38'04
asc. node	7190 Mar 21 06:55	20°♄52'20		asc. node	7191 Mar 08 03:58	6°♄45'31	
retrograde	7190 Mar 26 02:55	22°♄50'42		retrograde	7191 Mar 10 01:20	7°♄04'06	
evening set	7190 Mar 29 17:56	21°♄33'47		evening set	7191 Mar 14 01:25	5°♄32'17	
inferior conj	7190 Apr 04 03:50	15°♄37'53	3°19'30		7191 Mar 18 22:40	30°♄	
minimum elong	7190 Apr 04 02:37	15°♄41'56	3°19'21	inferior conj	7191 Mar 19 09:16	29°♄23'40	3°00'43
min. Earth dist.	7190 Apr 05 07:51	14°♄05'16	0.66944 AU	minimum elong	7191 Mar 19 07:17	29°♄30'28	3°00'21
morning rise	7190 Apr 09 10:59	9°♄21'04		min. Earth dist.	7191 Mar 19 23:30	28°♄34'49	0.67813 AU
direct	7190 Apr 15 12:44	6°♄38'42		morning rise	7191 Mar 24 12:56	23°♄08'47	
desc. node	7190 Apr 25 13:09	11°♄50'00		direct	7191 Mar 30 01:38	20°♄41'06	
morning max el	7190 Apr 27 18:52	13°♄58'55	25°35'16	morning max el	7191 Apr 10 03:38	27°♄18'49	24°09'03
	7190 May 10 19:23	0°♄		desc. node	7191 Apr 12 10:07	29°♄43'37	
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morning set	7190 Jun 02 22:25	7°♄08'27			7191 May 04 10:55	0°♄	
max. Earth dist.	7190 Jun 06 15:45	14°♄03'11	1.35975 AU	morning set	7191 May 15 19:47	18°♄40'03	
				max. Earth dist.	7191 May 19 12:27	25°♄10'10	1.38080 AU
superior conj	7190 Jun 12 12:11	25°♄27'40	-0°46'29		7191 May 22 04:22	0°♄	
minimum elong	7190 Jun 12 14:54	25°♄41'17	0°46'04				
	7190 Jun 14 18:11	0°♄		superior conj	7191 May 26 16:10	8°♄24'55	-1°17'16
asc. node	7190 Jun 17 06:06	5°♄06'00		minimum elong	7191 May 26 20:44	8°♄46'43	1°16'39
evening rise	7190 Jun 20 13:09	11°♄50'44		asc. node	7191 Jun 04 03:07	24°♄57'12	
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evening max el	7190 Jul 08 05:25	10°♄44'47	20°00'05		7191 Jun 06 16:53	0°♄	
retrograde	7190 Jul 18 14:53	15°♄51'31		evening max el	7191 Jun 21 00:42	22°♄32'57	19°02'03
evening set	7190 Jul 20 12:09	15°♄42'09		retrograde	7191 Jun 29 18:20	26°♄51'07	
desc. node	7190 Jul 22 12:24	15°♄12'53		evening set	7191 Jul 01 17:28	26°♄38'57	
inferior conj	7190 Jul 29 12:44	11°♄42'31	-2°07'01	desc. node	7191 Jul 09 09:26	22°♄51'10	
minimum elong	7190 Jul 29 06:52	11°♄51'21	2°04'55	inferior conj	7191 Jul 10 00:41	22°♄24'54	-0°11'29
min. Earth dist.	7190 Jul 31 09:28	10°♄35'10	0.55131 AU	minimum elong	7191 Jul 10 00:12	22°♄25'44	0°11'23
morning rise	7190 Aug 06 23:53	7°♄24'48		transit middle	7191 Jul 10 00:12	22°♄25'44	0°11'23
direct	7190 Aug 11 08:45	6°♄43'03		transit begin	7191 Jul 09 21:32	22°♄30'21	
morning max el	7190 Aug 25 01:51	13°♄27'57	24°11'42	transit end	7191 Jul 10 02:52	22°♄21'08	
	7190 Sep 06 20:48	0°♄		min. Earth dist.	7191 Jul 13 00:09	20°♄22'01	0.56435 AU
asc. node	7190 Sep 13 05:30	11°♄19'40		morning rise	7191 Jul 18 03:44	17°♄31'32	
morning set	7190 Sep 18 21:39	22°♄52'16		direct	7191 Jul 23 09:42	16°♄26'46	
	7190 Sep 22 05:02	0°♄		morning max el	7191 Aug 06 15:18	23°♄45'59	25°50'22
					7191 Aug 12 07:05	0°♄	
superior conj	7190 Sep 25 19:43	7°♄52'38	1°37'39		7191 Aug 30 16:04	0°♄	
minimum elong	7190 Sep 25 18:24	7°♄45'27	1°37'34	asc. node	7191 Aug 31 02:30	0°♄52'33	
max. Earth dist.	7190 Sep 27 21:54	12°♄23'57	1.32912 AU	morning set	7191 Sep 03 08:53	7°♄39'35	
evening rise	7190 Oct 03 05:07	23°♄28'51					
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desc. node	7190 Oct 18 11:29	20°♄57'17		minimum elong	7191 Sep 10 04:26	22°♄32'39	1°27'24
	7190 Oct 24 13:41	0°♄		max. Earth dist.	7191 Sep 11 04:54	24°♄47'28	1.32119 AU
evening max el	7190 Nov 05 19:09	14°♄30'32	27°27'37		7191 Sep 13 14:04	0°♄	

evening rise	7191 Sep 17 06:35	7°♄51'12		max. Earth dist.	7192 Aug 24 15:22	7°♄19'13	1.31766 AU
	7191 Sep 28 22:41	0°♄		evening rise	7192 Aug 31 13:37	22°♄27'45	
desc. node	7191 Oct 05 08:32	10°♄13'27			7192 Sep 04 05:07	0°♄	
evening max el	7191 Oct 19 03:31	27°♄12'37	27°18'51	desc. node	7192 Sep 21 05:34	28°♄43'38	
	7191 Oct 22 09:18	0°♄			7192 Sep 22 04:27	0°♄	
retrograde	7191 Nov 01 23:32	4°♄25'21		evening max el	7192 Sep 30 05:38	9°♄09'16	26°36'16
evening set	7191 Nov 09 02:09	2°♄05'43		retrograde	7192 Oct 14 03:31	16°♄16'35	
	7191 Nov 11 21:36	30°♄		evening set	7192 Oct 20 22:00	14°♄22'05	
min. Earth dist.	7191 Nov 12 18:06	29°♄16'18	0.61769 AU	min. Earth dist.	7192 Oct 24 19:18	11°♄46'49	0.59705 AU
inferior conj	7191 Nov 15 18:12	26°♄33'37	-3°32'24	inferior conj	7192 Oct 28 00:27	9°♄14'56	-4°33'46
minimum elong	7191 Nov 16 00:33	26°♄19'16	3°30'15	minimum elong	7192 Oct 28 07:20	9°♄01'20	4°32'07
morning rise	7191 Nov 23 01:01	21°♄33'36		morning rise	7192 Nov 04 18:53	4°♄36'51	
direct	7191 Nov 25 07:28	21°♄11'31		direct	7192 Nov 07 01:19	4°♄18'10	
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morning max el	7191 Dec 02 06:12	24°♄42'28	17°52'11	morning max el	7192 Nov 14 17:39	8°♄04'27	18°14'18
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minimum elong	7191 Dec 28 21:19	8°♄38'08	0°25'15	minimum elong	7192 Dec 10 01:47	21°♄00'49	0°57'53
desc. node	7192 Jan 01 07:42	14°♄27'42			7192 Dec 15 03:25	0°♄	
max. Earth dist.	7192 Jan 05 03:00	20°♄45'32	1.43055 AU	max. Earth dist.	7192 Dec 17 13:14	4°♄07'59	1.41157 AU
	7192 Jan 10 21:15	0°♄		desc. node	7192 Dec 18 04:44	5°♄13'35	
evening rise	7192 Jan 11 23:15	1°♄42'09		evening rise	7192 Dec 22 08:24	12°♄06'50	
	7192 Jan 31 00:20	0°♄			7193 Jan 02 19:57	0°♄	
evening max el	7192 Feb 12 17:25	15°♄54'42	21°50'55	evening max el	7193 Jan 25 09:20	29°♄35'21	23°09'57
retrograde	7192 Feb 21 22:48	21°♄22'51			7193 Jan 25 19:16	0°♄	
asc. node	7192 Feb 23 01:02	21°♄16'39		retrograde	7193 Feb 04 17:54	5°♄43'23	
evening set	7192 Feb 26 09:21	19°♄35'42		asc. node	7193 Feb 08 22:05	4°♄16'11	
inferior conj	7192 Mar 02 17:09	13°♄17'00	2°32'09	evening set	7193 Feb 09 16:10	3°♄41'02	
minimum elong	7192 Mar 02 14:51	13°♄25'00	2°31'34		7193 Feb 13 01:00	30°♄	
min. Earth dist.	7192 Mar 02 18:46	13°♄11'24	0.68253 AU	min. Earth dist.	7193 Feb 14 15:29	27°♄50'29	0.68283 AU
morning rise	7192 Mar 07 20:12	7°♄05'34		inferior conj	7193 Feb 15 01:36	27°♄15'35	1°54'56
direct	7192 Mar 12 18:42	4°♄58'19		minimum elong	7193 Feb 14 23:26	27°♄23'03	1°54'14
morning max el	7192 Mar 22 13:47	10°♄45'11	22°39'29	morning rise	7193 Feb 20 06:39	21°♄08'53	
desc. node	7192 Mar 29 07:07	18°♄30'11		direct	7193 Feb 24 14:59	19°♄24'20	
	7192 Apr 06 18:44	0°♄		morning max el	7193 Mar 05 04:58	24°♄21'52	21°15'08
morning set	7192 Apr 25 15:30	28°♄57'26			7193 Mar 10 04:21	0°♄	
	7192 Apr 26 06:41	0°♄		desc. node	7193 Mar 16 04:07	7°♄55'16	
max. Earth dist.	7192 Apr 30 09:03	6°♄52'28	1.40314 AU		7193 Mar 31 04:24	0°♄	
				morning set	7193 Apr 05 07:28	7°♄58'19	
superior conj	7192 May 08 03:58	20°♄34'06	-1°44'50	max. Earth dist.	7193 Apr 12 11:20	19°♄28'28	1.42392 AU
minimum elong	7192 May 08 09:31	20°♄59'13	1°44'19		7193 Apr 18 18:25	0°♄	
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evening rise	7192 May 18 03:14	9°♄09'57		minimum elong	7193 Apr 19 22:55	2°♄01'54	2°04'29
asc. node	7192 May 21 00:10	14°♄34'29		evening rise	7193 May 01 03:56	21°♄53'29	
	7192 May 30 02:26	0°♄			7193 May 05 16:11	0°♄	
evening max el	7192 Jun 03 05:33	4°♄59'22	18°24'41	asc. node	7193 May 07 21:13	3°♄52'17	
retrograde	7192 Jun 10 17:06	8°♄43'05		evening max el	7193 May 17 16:14	17°♄54'28	18°07'20
evening set	7192 Jun 12 22:54	8°♄23'54		retrograde	7193 May 24 09:31	21°♄19'48	
inferior conj	7192 Jun 20 10:08	3°♄49'42	1°23'01	evening set	7193 May 26 22:35	20°♄50'36	
minimum elong	7192 Jun 20 12:47	3°♄44'19	1°22'04	inferior conj	7193 Jun 02 16:16	15°♄56'03	2°28'26
min. Earth dist.	7192 Jun 23 19:42	1°♄05'31	0.58359 AU	minimum elong	7193 Jun 02 19:24	15°♄48'38	2°27'34
desc. node	7192 Jun 25 06:26	0°♄01'34		min. Earth dist.	7193 Jun 05 22:31	12°♄52'52	0.60566 AU
	7192 Jun 25 07:20	30°♄		morning rise	7193 Jun 09 13:42	10°♄02'51	
morning rise	7192 Jun 27 23:25	28°♄21'49		desc. node	7193 Jun 12 03:29	8°♄42'31	
direct	7192 Jul 04 00:33	26°♄46'19		direct	7193 Jun 16 03:44	7°♄55'16	
	7192 Jul 13 00:53	0°♄		morning max el	7193 Jun 30 11:19	15°♄52'23	27°48'10
morning max el	7192 Jul 18 09:52	4°♄28'45	27°06'23		7193 Jul 12 00:21	0°♄	
	7192 Aug 06 02:41	0°♄			7193 Jul 29 15:25	0°♄	
asc. node	7192 Aug 16 23:31	20°♄41'47		morning set	7193 Aug 01 23:18	6°♄44'12	
morning set	7192 Aug 17 18:03	22°♄18'59		asc. node	7193 Aug 03 20:31	10°♄41'16	
	7192 Aug 21 07:46	0°♄		max. Earth dist.	7193 Aug 08 01:25	19°♄46'58	1.31855 AU
superior conj	7192 Aug 24 18:18	7°♄35'26	1°12'34	superior conj	7193 Aug 09 05:25	22°♄21'06	0°52'51
minimum elong	7192 Aug 24 16:02	7°♄22'53	1°12'11	minimum elong	7193 Aug 09 03:23	22°♄09'50	0°52'25



































































































































	7193 Aug 12 16:36	0°♎		evening rise	7194 Jul 31 11:37	21°♊54'40	
evening rise	7193 Aug 15 23:56	7°♎10'52			7194 Aug 04 08:53	0°♎	
	7193 Aug 27 19:27	0°♏			7194 Aug 23 19:22	0°♏	
desc. node	7193 Sep 08 02:38	16°♏08'34		evening max el	7194 Aug 24 11:53	0°♏40'44	23°48'51
evening max el	7193 Sep 11 23:39	20°♏14'32	25°22'43	desc. node	7194 Aug 25 23:40	2°♏02'58	
retrograde	7193 Sep 25 21:36	27°♏17'04		retrograde	7194 Sep 07 03:49	7°♏31'49	
evening set	7193 Oct 01 19:08	25°♏56'52		evening set	7194 Sep 11 15:53	6°♏47'17	
min. Earth dist.	7193 Oct 06 11:25	23°♏17'59	0.57673 AU	min. Earth dist.	7194 Sep 17 22:14	3°♏46'02	0.55972 AU
inferior conj	7193 Oct 09 11:46	21°♏14'15	-5°17'49	inferior conj	7194 Sep 20 02:50	2°♏26'31	-5°27'24
minimum elong	7193 Oct 09 16:05	21°♏06'50	5°17'19	minimum elong	7194 Sep 20 00:47	2°♏29'38	5°27'18
morning rise	7193 Oct 17 15:22	16°♏59'23			7194 Sep 24 10:57	30°♎	
direct	7193 Oct 20 01:55	16°♏41'28		morning rise	7194 Sep 28 11:57	28°♎30'40	
morning max el	7193 Oct 28 20:57	20°♏53'00	18°57'26	direct	7194 Oct 01 07:02	28°♎10'57	
asc. node	7193 Oct 30 19:56	22°♏56'52			7194 Oct 07 14:53	0°♏	
	7193 Nov 04 22:08	0°♎		morning max el	7194 Oct 11 12:51	2°♏58'39	20°02'44
morning set	7193 Nov 14 10:57	17°♎29'21		asc. node	7194 Oct 17 16:57	10°♏24'44	
	7193 Nov 20 19:36	0°♎			7194 Oct 28 15:18	0°♎	
				morning set	7194 Oct 29 15:48	2°♎04'09	
superior conj	7193 Nov 22 20:27	3°♎55'20	1°21'25	superior conj	7194 Nov 06 08:43	17°♎46'04	1°35'31
minimum elong	7193 Nov 22 23:36	4°♎10'21	1°21'09	minimum elong	7194 Nov 06 10:38	17°♎55'39	1°35'27
max. Earth dist.	7193 Nov 29 19:08	16°♎46'08	1.39024 AU	max. Earth dist.	7194 Nov 12 00:52	28°♎49'49	1.36920 AU
evening rise	7193 Dec 03 15:40	23°♎30'49			7194 Nov 12 15:46	0°♎	
desc. node	7193 Dec 05 01:47	25°♎55'57		evening rise	7194 Nov 15 20:00	5°♎51'16	
	7193 Dec 07 12:18	0°♎		desc. node	7194 Nov 21 22:48	16°♎30'41	
	7193 Dec 27 16:00	0°♎			7194 Nov 30 09:43	0°♎	
evening max el	7194 Jan 07 22:46	13°♎19'23	24°29'20	evening max el	7194 Dec 21 11:40	27°♎05'32	25°42'08
retrograde	7194 Jan 19 09:27	20°♎01'13			7194 Dec 24 17:29	0°♎	
evening set	7194 Jan 24 20:20	17°♎44'47		retrograde	7195 Jan 02 20:23	4°♎10'27	
asc. node	7194 Jan 26 19:09	15°♎48'41		evening set	7195 Jan 08 20:11	1°♎42'23	
min. Earth dist.	7194 Jan 29 11:24	12°♎28'15	0.67920 AU		7195 Jan 10 15:05	30°♎	
inferior conj	7194 Jan 30 08:47	11°♎16'45	1°09'47	min. Earth dist.	7195 Jan 13 04:14	27°♎00'17	0.67186 AU
minimum elong	7194 Jan 30 07:14	11°♎21'58	1°09'14	asc. node	7195 Jan 13 16:12	26°♎22'26	
morning rise	7194 Feb 04 18:16	5°♎16'17		inferior conj	7195 Jan 14 12:49	25°♎16'47	0°17'15
direct	7194 Feb 08 13:22	3°♎53'51		minimum elong	7195 Jan 14 12:22	25°♎18'11	0°17'08
morning max el	7194 Feb 16 03:40	8°♎10'56	20°02'04	morning rise	7195 Jan 20 05:01	19°♎24'29	
desc. node	7194 Mar 03 01:09	27°♎48'35		direct	7195 Jan 23 12:23	18°♎21'41	
	7194 Mar 04 12:36	0°♎		morning max el	7195 Jan 30 10:07	22°♎09'54	19°03'39
morning set	7194 Mar 15 05:27	16°♎14'55			7195 Feb 05 20:25	0°♎	
	7194 Mar 24 00:39	0°♎		greatest brilliancy	7195 Feb 13 08:03	10°♎59'23	-0.8m
max. Earth dist.	7194 Mar 25 20:39	2°♎54'55	1.44056 AU	desc. node	7195 Feb 17 22:09	18°♎02'04	
				morning set	7195 Feb 22 08:54	24°♎55'49	
superior conj	7194 Mar 31 08:50	11°♎48'24	-2°10'51		7195 Feb 25 15:09	0°♎	
minimum elong	7194 Mar 31 07:55	11°♎44'40	2°10'52	max. Earth dist.	7195 Mar 08 11:58	16°♎58'58	1.45118 AU
	7194 Apr 11 05:40	0°♎					
evening rise	7194 Apr 13 10:32	3°♎46'45		superior conj	7195 Mar 10 23:54	20°♎55'05	-1°58'04
asc. node	7194 Apr 24 18:16	22°♎44'06		minimum elong	7195 Mar 10 16:20	20°♎25'13	1°57'36
	7194 Apr 30 02:59	0°♎			7195 Mar 16 17:01	0°♎	
evening max el	7194 May 01 05:20	1°♎09'38	18°09'10	evening rise	7195 Mar 25 18:52	14°♎42'08	
retrograde	7194 May 07 15:06	4°♎31'20			7195 Apr 04 04:12	0°♎	
evening set	7194 May 10 11:11	3°♎50'07		asc. node	7195 Apr 11 15:19	11°♎01'08	
	7194 May 15 07:32	30°♎		evening max el	7195 Apr 14 17:49	14°♎36'44	18°29'26
inferior conj	7194 May 16 15:16	28°♎36'33	3°07'08	retrograde	7195 Apr 21 05:29	18°♎08'17	
minimum elong	7194 May 16 17:25	28°♎30'47	3°06'44	evening set	7195 Apr 24 08:33	17°♎13'41	
min. Earth dist.	7194 May 19 10:09	25°♎38'22	0.62754 AU	inferior conj	7195 Apr 30 02:59	11°♎42'26	3°24'25
morning rise	7194 May 22 22:07	22°♎28'41		minimum elong	7195 Apr 30 03:42	11°♎40'18	3°24'20
direct	7194 May 29 17:11	19°♎55'44		min. Earth dist.	7195 May 02 06:56	9°♎08'51	0.64697 AU
desc. node	7194 May 30 00:30	19°♎56'02		morning rise	7195 May 05 22:03	5°♎27'50	
morning max el	7194 Jun 12 18:12	27°♎58'25	27°51'46	direct	7195 May 12 14:39	2°♎41'28	
	7194 Jun 14 16:46	0°♎		desc. node	7195 May 16 21:32	3°♎39'31	
	7194 Jul 05 18:56	0°♎		morning max el	7195 May 26 03:50	10°♎38'06	27°19'50
morning set	7194 Jul 16 22:31	20°♎48'59			7195 Jun 10 10:15	0°♎	
	7194 Jul 21 08:47	0°♎			7195 Jun 28 05:53	0°♎	
asc. node	7194 Jul 21 17:32	0°♎46'30		morning set	7195 Jun 30 12:59	4°♎24'53	
max. Earth dist.	7194 Jul 22 07:00	1°♎58'23	1.32400 AU	max. Earth dist.	7195 Jul 05 04:19	13°♎43'10	1.33419 AU
superior conj	7194 Jul 24 14:02	6°♎55'22	0°28'58	superior conj	7195 Jul 08 18:06	21°♎11'35	0°01'31
minimum elong	7194 Jul 24 12:43	6°♎48'14	0°28'38				

minimum elong	7195 Jul 08 18:01	21°☿11'11	0°01'26		7196 Jun 19 03:25	0°☿	
behind sun begin	7195 Jul 08 12:31	20°☿42'04					
behind sun end	7195 Jul 08 23:31	21°☿40'20		superior conj	7196 Jun 21 15:15	5°☿03'26	-0°28'33
asc. node	7195 Jul 08 14:33	20°☿52'46		minimum elong	7196 Jun 21 16:52	5°☿11'43	0°28'19
	7195 Jul 12 21:00	0°♌		asc. node	7196 Jun 24 11:33	10°☿56'25	
evening rise	7195 Jul 15 22:44	6°♌32'50		evening rise	7196 Jun 29 07:22	20°☿59'48	
	7195 Jul 28 10:42	0°♍			7196 Jul 03 18:27	0°♌	
evening max el	7195 Aug 06 01:36	10°♍57'34	22°10'40	evening max el	7196 Jul 18 00:47	21°♌37'51	20°42'35
desc. node	7195 Aug 12 20:41	15°♍54'59		retrograde	7196 Jul 29 09:42	27°♌14'41	
retrograde	7195 Aug 18 21:40	17°♍20'18		desc. node	7196 Jul 29 17:44	27°♌14'25	
evening set	7195 Aug 21 22:08	17°♍00'07		evening set	7196 Jul 31 11:54	27°♌04'05	
min. Earth dist.	7195 Aug 30 07:15	13°♍22'19	0.54924 AU	inferior conj	7196 Aug 09 17:57	23°♌07'09	-3°13'38
inferior conj	7195 Aug 31 01:17	12°♍56'58	-4°45'56	minimum elong	7196 Aug 09 09:27	23°♌19'17	3°10'53
minimum elong	7195 Aug 30 16:56	13°♍08'42	4°44'15	min. Earth dist.	7196 Aug 10 16:58	22°♌34'16	0.54775 AU
morning rise	7195 Sep 08 13:19	9°♍08'11		morning rise	7196 Aug 18 06:48	19°♌06'08	
direct	7195 Sep 11 20:32	8°♍43'51		direct	7196 Aug 22 05:11	18°♌33'00	
morning max el	7195 Sep 23 15:58	14°♍16'17	21°29'15	morning max el	7196 Sep 04 08:47	24°♌52'10	23°11'08
asc. node	7195 Oct 04 13:58	28°♍41'40			7196 Sep 09 02:32	0°♍	
	7195 Oct 05 08:18	0°♎		asc. node	7196 Sep 20 10:58	17°♍35'17	
morning set	7195 Oct 14 00:52	16°♎50'07			7196 Sep 26 16:58	0°♎	
	7195 Oct 20 06:58	0°♏		morning set	7196 Sep 27 12:06	1°♎40'45	
superior conj	7195 Oct 21 06:58	2°♏05'25	1°41'39	superior conj	7196 Oct 04 11:58	16°♎43'07	1°40'53
minimum elong	7195 Oct 21 07:28	2°♏08'04	1°41'41	minimum elong	7196 Oct 04 11:13	16°♎39'08	1°40'53
max. Earth dist.	7195 Oct 25 12:14	10°♏43'24	1.35058 AU	max. Earth dist.	7196 Oct 07 07:58	22°♎44'38	1.33569 AU
evening rise	7195 Oct 29 17:49	18°♏59'14			7196 Oct 10 20:24	0°♏	
	7195 Nov 04 18:39	0°♐		evening rise	7196 Oct 12 05:00	2°♏43'11	
desc. node	7195 Nov 08 19:48	6°♐53'12		desc. node	7196 Oct 25 16:48	26°♏56'53	
	7195 Nov 24 12:34	0°♑			7196 Oct 27 15:03	0°♐	
evening max el	7195 Dec 04 00:56	10°♑48'50	26°40'53	evening max el	7196 Nov 15 13:40	24°♐17'54	27°18'18
retrograde	7195 Dec 17 01:51	18°♑05'08			7196 Nov 23 03:33	0°♑	
evening set	7195 Dec 23 13:52	15°♑29'28		retrograde	7196 Nov 29 01:09	1°♑36'50	
min. Earth dist.	7195 Dec 27 15:38	11°♑22'13	0.66094 AU		7196 Dec 04 11:44	30°♑♈	
inferior conj	7195 Dec 29 11:42	9°♑11'52	-0°41'52	evening set	7196 Dec 05 23:05	28°♐59'45	
minimum elong	7195 Dec 29 12:53	9°♑08'23	0°41'17	min. Earth dist.	7196 Dec 09 19:14	25°♐26'36	0.64655 AU
asc. node	7195 Dec 31 13:15	6°♑50'02		inferior conj	7196 Dec 12 03:05	22°♐55'49	-1°46'22
morning rise	7196 Jan 04 12:46	3°♑30'17		minimum elong	7196 Dec 12 06:17	22°♐47'09	1°44'57
direct	7196 Jan 07 10:14	2°♑43'40		asc. node	7196 Dec 17 10:18	18°♐05'59	
morning max el	7196 Jan 13 22:50	6°♑14'29	18°21'30	morning rise	7196 Dec 18 14:52	17°♐27'59	
	7196 Jan 30 11:41	0°♒		direct	7196 Dec 21 04:28	16°♐53'48	
morning set	7196 Feb 02 13:52	4°♒57'08		morning max el	7196 Dec 27 15:15	20°♐17'28	17°56'11
desc. node	7196 Feb 04 19:08	8°♒30'15			7197 Jan 04 00:07	0°♑	
superior conj	7196 Feb 18 04:07	29°♒39'31	-1°26'00	morning set	7197 Jan 14 00:08	16°♑25'07	
minimum elong	7196 Feb 17 18:47	29°♒02'55	1°24'56	desc. node	7197 Jan 21 16:06	29°♑07'56	
	7196 Feb 18 09:20	0°♓			7197 Jan 22 04:50	0°♒	
max. Earth dist.	7196 Feb 19 07:14	1°♓25'44	1.45462 AU	superior conj	7197 Jan 27 16:58	8°♒54'08	-0°42'10
evening rise	7196 Mar 05 04:04	24°♓43'02		minimum elong	7197 Jan 27 12:00	8°♒34'17	0°41'25
	7196 Mar 08 12:45	0°♈		max. Earth dist.	7197 Feb 01 02:58	15°♒55'06	1.45055 AU
greatest brilliancy	7196 Mar 15 16:10	11°♈09'08	-0.8m		7197 Feb 10 03:39	0°♓	
evening max el	7196 Mar 28 03:20	28°♈10'43	19°07'10	evening rise	7197 Feb 12 19:39	4°♓06'37	
asc. node	7196 Mar 28 12:21	28°♈33'12		greatest brilliancy	7197 Feb 27 10:08	26°♓11'28	-0.6m
	7196 Mar 30 03:30	0°♉			7197 Mar 02 01:20	0°♈	
retrograde	7196 Apr 04 01:11	2°♉04'11		evening max el	7197 Mar 11 08:00	11°♈46'54	20°00'54
evening set	7196 Apr 07 11:40	0°♉55'26		asc. node	7197 Mar 15 09:25	15°♈06'49	
	7196 Apr 08 16:29	30°♈♈		retrograde	7197 Mar 18 23:21	16°♈12'45	
inferior conj	7196 Apr 12 23:52	25°♈07'58	3°25'08	evening set	7197 Mar 22 18:10	14°♈49'20	
minimum elong	7196 Apr 12 23:15	25°♈09'54	3°25'04	inferior conj	7197 Mar 28 02:54	8°♈47'34	3°12'48
min. Earth dist.	7196 Apr 14 12:19	23°♈11'26	0.66257 AU	minimum elong	7197 Mar 28 01:18	8°♈52'56	3°12'34
morning rise	7196 Apr 18 10:27	18°♈51'15		min. Earth dist.	7197 Mar 29 00:47	7°♈33'47	0.67372 AU
direct	7196 Apr 24 18:47	16°♈04'26		morning rise	7197 Apr 02 08:14	2°♈31'29	
desc. node	7196 May 02 18:34	19°♈24'16			7197 Apr 07 02:03	30°♈♉	
morning max el	7196 May 07 13:59	23°♈41'28	26°19'20	direct	7197 Apr 08 04:34	29°♈54'47	
	7196 May 13 04:56	0°♉			7197 Apr 09 07:48	0°♈	
	7196 Jun 02 19:08	0°♊		desc. node	7197 Apr 19 15:34	6°♈38'28	
morning set	7196 Jun 12 15:15	17°♊22'37		morning max el	7197 Apr 19 23:20	6°♈57'59	24°59'38
max. Earth dist.	7196 Jun 16 15:02	25°♊00'49	1.34921 AU		7197 May 07 21:13	0°♉	

morning set	7197 May 26 00:48	29°♄30'17		morning max el	7198 Apr 02 08:29	20°♄21'18	23°30'45
	7197 May 26 07:27	0°♄		desc. node	7198 Apr 06 12:34	24°♄56'58	
max. Earth dist.	7197 May 29 15:52	6°♄05'24	1.36841 AU		7198 Apr 10 14:11	0°♄	
					7198 May 01 02:16	0°♄	
superior conj	7197 Jun 05 02:33	18°♄23'22	-0°59'43	morning set	7198 May 07 11:55	10°♄32'14	
minimum elong	7197 Jun 05 06:05	18°♄40'46	0°59'11	max. Earth dist.	7198 May 11 11:38	17°♄24'04	1.39027 AU
	7197 Jun 10 21:56	0°♄			7198 May 18 11:02	0°♄	
asc. node	7197 Jun 11 08:34	0°♄53'41					
evening rise	7197 Jun 13 11:14	5°♄09'12		superior conj	7198 May 19 00:11	1°♄01'18	-1°29'36
	7197 Jun 27 20:11	0°♄		minimum elong	7198 May 19 05:21	1°♄25'26	1°28'59
evening max el	7197 Jun 30 12:58	3°♄00'35	19°32'49	evening rise	7198 May 28 07:26	18°♄52'25	
retrograde	7197 Jul 10 04:49	7°♄45'56		asc. node	7198 May 29 05:36	20°♄39'43	
evening set	7197 Jul 12 01:45	7°♄35'59			7198 Jun 03 04:29	0°♄	
desc. node	7197 Jul 16 14:47	5°♄59'27		evening max el	7198 Jun 13 12:44	15°♄06'02	18°43'41
inferior conj	7197 Jul 20 19:41	3°♄30'57	-1°16'40	retrograde	7198 Jun 21 16:26	19°♄07'56	
minimum elong	7197 Jul 20 16:12	3°♄36'30	1°15'24	evening set	7198 Jun 23 17:57	18°♄53'22	
min. Earth dist.	7197 Jul 23 05:33	1°♄59'11	0.55583 AU	inferior conj	7198 Jul 01 16:37	14°♄31'11	0°32'00
	7197 Jul 26 17:59	30°♄		minimum elong	7198 Jul 01 17:50	14°♄28'57	0°31'28
morning rise	7197 Jul 29 04:14	28°♄58'49		desc. node	7198 Jul 03 11:51	13°♄10'44	
direct	7197 Aug 02 21:41	28°♄08'48		min. Earth dist.	7198 Jul 04 22:22	12°♄08'08	0.57190 AU
	7197 Aug 09 22:29	0°♄		morning rise	7198 Jul 09 14:13	9°♄21'55	
morning max el	7197 Aug 16 21:45	5°♄09'27	24°55'40	direct	7198 Jul 15 04:42	8°♄04'40	
	7197 Sep 03 16:11	0°♄		morning max el	7198 Jul 29 13:09	15°♄35'57	26°26'21
asc. node	7197 Sep 07 07:58	6°♄56'18			7198 Aug 10 05:00	0°♄	
morning set	7197 Sep 11 23:50	16°♄31'07		asc. node	7198 Aug 25 04:58	26°♄36'44	
	7197 Sep 18 04:32	0°♄			7198 Aug 26 20:04	0°♄	
				morning set	7198 Aug 27 10:22	1°♄15'35	
superior conj	7197 Sep 18 21:15	1°♄31'39	1°34'04				
minimum elong	7197 Sep 18 19:35	1°♄22'33	1°33'56	superior conj	7198 Sep 03 08:41	16°♄23'45	1°21'51
max. Earth dist.	7197 Sep 20 11:28	5°♄00'16	1.32514 AU	minimum elong	7198 Sep 03 06:30	16°♄11'43	1°21'33
evening rise	7197 Sep 26 02:08	16°♄54'00		max. Earth dist.	7198 Sep 03 20:10	17°♄27'19	1.31908 AU
	7197 Oct 02 19:12	0°♄			7198 Sep 09 14:31	0°♄	
desc. node	7197 Oct 12 13:51	16°♄33'41		evening rise	7198 Sep 10 06:14	1°♄22'55	
	7197 Oct 22 06:37	0°♄			7198 Sep 25 18:35	0°♄	
evening max el	7197 Oct 29 00:07	7°♄20'15	27°27'51	desc. node	7198 Sep 29 10:55	5°♄32'12	
retrograde	7197 Nov 11 17:55	14°♄36'37		evening max el	7198 Oct 11 05:57	19°♄43'24	27°04'52
evening set	7197 Nov 18 20:58	12°♄07'08		retrograde	7198 Oct 25 03:17	26°♄54'42	
min. Earth dist.	7197 Nov 22 13:10	9°♄04'16	0.62897 AU	evening set	7198 Nov 01 03:41	24°♄44'10	
inferior conj	7197 Nov 25 08:10	6°♄22'03	-2°53'50	min. Earth dist.	7198 Nov 04 20:34	22°♄02'38	0.60894 AU
minimum elong	7197 Nov 25 13:31	6°♄09'06	2°51'48	inferior conj	7198 Nov 07 23:44	19°♄22'13	-3°59'43
morning rise	7197 Dec 02 07:58	1°♄11'16		minimum elong	7198 Nov 08 06:34	19°♄07'36	3°57'41
asc. node	7197 Dec 04 07:20	0°♄46'27		morning rise	7198 Nov 15 11:43	14°♄31'27	
direct	7197 Dec 04 16:09	0°♄45'49		direct	7198 Nov 17 17:30	14°♄11'19	
morning max el	7197 Dec 11 08:23	4°♄11'32	17°48'23	asc. node	7198 Nov 21 04:22	15°♄01'13	
morning set	7197 Dec 27 10:46	29°♄03'04		morning max el	7198 Nov 24 22:55	17°♄47'55	17°59'11
	7197 Dec 27 23:43	0°♄			7198 Dec 03 16:11	0°♄	
				morning set	7198 Dec 10 15:16	12°♄31'36	
					7198 Dec 20 06:07	0°♄	
superior conj	7198 Jan 08 04:51	19°♄17'17	0°02'30				
minimum elong	7198 Jan 08 05:06	19°♄18'21	0°02'32				
behind sun begin	7198 Jan 07 20:00	18°♄40'18		superior conj	7198 Dec 20 18:36	0°♄55'01	0°40'33
behind sun end	7198 Jan 08 14:12	19°♄56'18		minimum elong	7198 Dec 20 21:41	1°♄08'32	0°40'11
desc. node	7198 Jan 08 13:05	19°♄51'36		desc. node	7198 Dec 26 10:06	10°♄37'52	
	7198 Jan 14 17:51	0°♄		max. Earth dist.	7198 Dec 28 08:37	13°♄52'04	1.42286 AU
max. Earth dist.	7198 Jan 14 20:04	0°♄08'52	1.43952 AU	evening rise	7199 Jan 03 04:57	23°♄21'29	
evening rise	7198 Jan 23 06:51	13°♄26'56			7199 Jan 07 10:40	0°♄	
	7198 Feb 03 05:43	0°♄			7199 Jan 28 07:38	0°♄	
evening max el	7198 Feb 22 07:08	25°♄24'02	21°07'54	evening max el	7199 Feb 05 01:19	9°♄03'41	22°24'06
	7198 Feb 28 11:41	0°♄		retrograde	7199 Feb 14 18:28	14°♄49'43	
asc. node	7198 Mar 02 06:29	0°♄27'01		asc. node	7199 Feb 17 03:33	14°♄20'40	
retrograde	7198 Mar 02 21:43	0°♄29'07		evening set	7199 Feb 19 09:43	12°♄56'15	
	7198 Mar 05 04:48	30°♄		inferior conj	7199 Feb 24 18:02	6°♄34'07	2°17'25
evening set	7198 Mar 07 02:03	28°♄50'45		minimum elong	7199 Feb 24 15:44	6°♄42'07	2°16'45
inferior conj	7198 Mar 12 09:39	22°♄37'11	2°49'45	min. Earth dist.	7199 Feb 24 14:38	6°♄45'59	0.68312 AU
minimum elong	7198 Mar 12 07:29	22°♄44'42	2°49'15	morning rise	7199 Mar 01 21:36	0°♄24'15	
min. Earth dist.	7198 Mar 12 18:19	22°♄07'07	0.68050 AU		7199 Mar 02 09:40	30°♄	
morning rise	7198 Mar 17 12:43	16°♄23'27		direct	7199 Mar 06 13:59	28°♄26'27	
direct	7198 Mar 22 19:17	14°♄04'14			7199 Mar 11 04:51	0°♄	

morning max el	7199 Mar 15 20:21	3° $\text{H}$ 52'12	22°02'28	direct	7200 Feb 18 11:27	12° $\approx$ 54'58	
desc. node	7199 Mar 24 09:33	14° $\text{H}$ 02'04		morning max el	7200 Feb 26 14:23	17° $\approx$ 33'45	20°42'23
	7199 Apr 04 16:53	0° $\text{Y}$			7200 Mar 07 15:56	0° $\text{H}$	
morning set	7199 Apr 17 19:41	20° $\text{Y}$ 16'47		desc. node	7200 Mar 10 06:33	3° $\text{H}$ 40'26	
max. Earth dist.	7199 Apr 23 09:38	29° $\text{Y}$ 26'37	1.41233 AU	morning set	7200 Mar 27 01:48	28° $\text{H}$ 52'06	
	7199 Apr 23 17:36	0° $\text{B}$			7200 Mar 27 19:14	0° $\text{Y}$	
				max. Earth dist.	7200 Apr 04 14:56	12° $\text{Y}$ 25'31	1.43173 AU
superior conj	7199 May 01 03:40	12° $\text{B}$ 47'09	-1°54'32				
minimum elong	7199 May 01 09:01	13° $\text{B}$ 10'51	1°54'08	superior conj	7200 Apr 11 08:16	23° $\text{Y}$ 30'11	-2°09'18
	7199 May 10 14:28	0° $\text{II}$		minimum elong	7200 Apr 11 10:44	23° $\text{Y}$ 40'33	2°09'17
evening rise	7199 May 11 16:29	2° $\text{II}$ 00'47			7200 Apr 15 04:11	0° $\text{B}$	
asc. node	7199 May 16 02:40	10° $\text{II}$ 09'46		evening rise	7200 Apr 23 10:01	14° $\text{B}$ 24'02	
evening max el	7199 May 27 20:36	27° $\text{II}$ 46'28	18°14'56	asc. node	7200 May 01 23:43	29° $\text{B}$ 17'34	
	7199 May 30 15:10	0° $\text{B}$			7200 May 02 10:03	0° $\text{II}$	
retrograde	7199 Jun 03 22:54	1° $\text{B}$ 20'07		evening max el	7200 May 10 08:45	10° $\text{II}$ 51'35	18°05'47
evening set	7199 Jun 06 07:51	0° $\text{B}$ 57'00		retrograde	7200 May 16 21:23	14° $\text{II}$ 13'13	
	7199 Jun 08 11:04	30° $\text{R}$ $\text{II}$		evening set	7200 May 19 13:36	13° $\text{II}$ 38'57	
inferior conj	7199 Jun 13 11:13	26° $\text{II}$ 14'23	1°54'18	inferior conj	7200 May 26 00:59	8° $\text{II}$ 36'05	2°47'46
minimum elong	7199 Jun 13 14:20	26° $\text{II}$ 07'37	1°53'16	minimum elong	7200 May 26 03:49	8° $\text{II}$ 29'00	2°47'07
min. Earth dist.	7199 Jun 16 20:54	23° $\text{II}$ 18'53	0.59289 AU	min. Earth dist.	7200 May 29 03:05	5° $\text{II}$ 32'27	0.61526 AU
desc. node	7199 Jun 20 08:54	20° $\text{II}$ 47'28		morning rise	7200 Jun 01 16:00	2° $\text{II}$ 35'49	
morning rise	7199 Jun 20 17:47	20° $\text{II}$ 34'27		desc. node	7200 Jun 06 05:55	0° $\text{II}$ 30'11	
direct	7199 Jun 27 01:33	18° $\text{II}$ 44'34		direct	7200 Jun 08 09:20	0° $\text{II}$ 16'18	
morning max el	7199 Jul 11 10:30	26° $\text{II}$ 34'37	27°28'36	morning max el	7200 Jun 22 14:18	8° $\text{II}$ 16'02	27°54'17
	7199 Jul 14 16:07	0° $\text{B}$			7200 Jul 09 05:48	0° $\text{B}$	
	7199 Aug 03 17:24	0° $\text{O}$		morning set	7200 Jul 25 21:02	0° $\text{O}$ 06'44	
morning set	7199 Aug 11 18:04	15° $\text{O}$ 49'17			7200 Jul 25 19:43	0° $\text{O}$	
asc. node	7199 Aug 12 01:59	16° $\text{O}$ 30'48		asc. node	7200 Jul 28 23:00	6° $\text{O}$ 33'31	
	7199 Aug 18 07:09	0° $\text{np}$		max. Earth dist.	7200 Jul 31 15:24	12° $\text{O}$ 20'24	1.32033 AU
superior conj	7199 Aug 18 20:26	1° $\text{np}$ 13'31	1°04'44	superior conj	7200 Aug 02 06:44	15° $\text{O}$ 55'23	0°43'12
minimum elong	7199 Aug 18 18:12	1° $\text{np}$ 01'10	1°04'20	minimum elong	7200 Aug 02 04:56	15° $\text{O}$ 45'32	0°42'47
max. Earth dist.	7199 Aug 18 06:43	29° $\text{O}$ 57'34	1.31748 AU		7200 Aug 08 17:10	0° $\text{np}$	
evening rise	7199 Aug 25 14:54	16° $\text{np}$ 02'54		evening rise	7200 Aug 09 02:03	0° $\text{np}$ 47'39	
	7199 Sep 01 12:33	0° $\text{B}$			7200 Aug 24 23:13	0° $\text{B}$	
desc. node	7199 Sep 16 07:59	23° $\text{B}$ 37'09		desc. node	7200 Sep 02 05:02	10° $\text{B}$ 27'38	
	7199 Sep 21 20:55	0° $\text{ml}$		evening max el	7200 Sep 03 20:00	12° $\text{B}$ 05'32	24°44'28
evening max el	7199 Sep 23 04:46	1° $\text{ml}$ 18'14	26°08'25	retrograde	7200 Sep 17 16:16	19° $\text{B}$ 03'44	
retrograde	7199 Oct 07 03:23	8° $\text{ml}$ 23'39		evening set	7200 Sep 23 00:52	17° $\text{B}$ 59'25	
evening set	7199 Oct 13 14:22	6° $\text{ml}$ 43'17		min. Earth dist.	7200 Sep 28 07:10	15° $\text{B}$ 13'14	0.56890 AU
min. Earth dist.	7199 Oct 17 17:51	4° $\text{ml}$ 08'30	0.58813 AU	inferior conj	7200 Oct 01 01:00	13° $\text{B}$ 26'57	-5°27'16
inferior conj	7199 Oct 20 22:16	1° $\text{ml}$ 46'38	-4°55'35	minimum elong	7200 Oct 01 02:59	13° $\text{B}$ 23'43	5°27'09
minimum elong	7199 Oct 21 04:32	1° $\text{ml}$ 34'57	4°54'23	morning rise	7200 Oct 09 07:20	9° $\text{B}$ 20'53	
	7199 Oct 23 09:31	30° $\text{R}$ $\text{B}$		direct	7200 Oct 11 21:14	9° $\text{B}$ 02'20	
morning rise	7199 Oct 28 20:57	27° $\text{B}$ 18'12		morning max el	7200 Oct 21 05:59	13° $\text{B}$ 27'55	19°22'29
direct	7199 Oct 31 04:28	27° $\text{B}$ 00'13		asc. node	7200 Oct 24 22:25	17° $\text{B}$ 36'21	
	7199 Nov 07 06:19	0° $\text{ml}$			7200 Nov 01 17:05	0° $\text{ml}$	
asc. node	7199 Nov 08 01:24	0° $\text{ml}$ 42'32		morning set	7200 Nov 07 09:36	11° $\text{ml}$ 00'47	
morning max el	7199 Nov 08 07:16	0° $\text{ml}$ 56'29	18°30'00				
morning set	7199 Nov 24 08:12	26° $\text{ml}$ 34'29		superior conj	7200 Nov 15 11:11	27° $\text{ml}$ 05'14	1°28'26
	7199 Nov 26 02:49	0° $\text{x}$		minimum elong	7200 Nov 15 13:52	27° $\text{ml}$ 18'18	1°28'16
					7200 Nov 16 23:15	0° $\text{x}$	
superior conj	7199 Dec 03 06:26	13° $\text{x}$ 35'37	1°09'15	max. Earth dist.	7200 Nov 21 22:13	9° $\text{x}$ 18'39	1.38113 AU
minimum elong	7199 Dec 03 09:58	13° $\text{x}$ 52'03	1°08'53	evening rise	7200 Nov 25 15:56	16° $\text{x}$ 00'30	
max. Earth dist.	7199 Dec 10 16:31	26° $\text{x}$ 54'52	1.40259 AU	desc. node	7200 Nov 29 04:09	22° $\text{x}$ 02'36	
	7199 Dec 12 11:38	0° $\text{B}$			7200 Dec 04 00:25	0° $\text{B}$	
desc. node	7199 Dec 13 07:07	1° $\text{B}$ 22'41			7200 Dec 25 06:11	0° $\approx$	
evening rise	7199 Dec 14 23:20	4° $\text{B}$ 11'16		evening max el	7200 Dec 31 05:15	6° $\approx$ 32'33	25°01'32
	7199 Dec 31 15:56	0° $\approx$		retrograde	7201 Jan 12 01:36	13° $\approx$ 24'49	
evening max el	7200 Jan 18 16:04	22° $\approx$ 46'34	23°44'11	evening set	7201 Jan 17 18:06	11° $\approx$ 03'02	
retrograde	7200 Jan 29 12:06	29° $\approx$ 09'43		asc. node	7201 Jan 20 21:40	7° $\approx$ 44'09	
evening set	7200 Feb 03 15:35	27° $\approx$ 01'28		min. Earth dist.	7201 Jan 22 06:06	6° $\approx$ 01'18	0.67659 AU
asc. node	7200 Feb 04 00:37	26° $\approx$ 41'39		inferior conj	7201 Jan 23 08:14	4° $\approx$ 35'40	0°48'23
min. Earth dist.	7200 Feb 08 11:19	21° $\approx$ 25'14	0.68176 AU	minimum elong	7201 Jan 27 07:05	4° $\approx$ 39'26	0°47'59
inferior conj	7200 Feb 09 02:10	20° $\approx$ 34'33	1°36'45		7201 Jan 27 05:08	30° $\text{R}$ $\text{B}$	
minimum elong	7200 Feb 09 00:12	20° $\approx$ 41'16	1°36'05	morning rise	7201 Jan 28 20:18	28° $\text{B}$ 38'34	
morning rise	7200 Feb 14 08:47	14° $\approx$ 30'09		direct	7201 Feb 01 10:18	27° $\text{B}$ 24'43	

	7201 Feb 07 02:16	0°♊		morning rise	7202 Jan 13 06:02	12°♊45'57	
morning max el	7201 Feb 08 16:28	1°♊27'34	19°35'21	direct	7202 Jan 16 08:56	11°♊50'35	
greatest brilliancy	7201 Feb 21 12:32	18°♊18'07	-0.7m	morning max el	7202 Jan 23 01:54	15°♊29'55	18°43'46
desc. node	7201 Feb 25 03:32	23°♊43'10			7202 Feb 02 23:28	0°♊	
	7201 Mar 01 06:47	0°♋		desc. node	7202 Feb 12 00:31	14°♊03'25	
morning set	7201 Mar 05 22:58	7°♋10'25		morning set	7202 Feb 13 11:44	16°♊21'41	
max. Earth dist.	7201 Mar 18 03:41	26°♋12'31	1.44598 AU		7202 Feb 22 04:28	0°♋	
	7201 Mar 20 12:55	0°♌		max. Earth dist.	7202 Feb 28 21:05	10°♋28'40	1.45350 AU
superior conj	7201 Mar 22 11:49	3°♌07'40	-2°07'56	superior conj	7202 Mar 01 20:04	11°♋58'46	-1°46'33
minimum elong	7201 Mar 22 07:55	2°♌52'03	2°07'49	minimum elong	7202 Mar 01 10:51	11°♋22'37	1°45'45
evening rise	7201 Apr 05 07:33	25°♌53'36			7202 Mar 13 05:39	0°♌	
	7201 Apr 07 18:04	0°♍		evening rise	7202 Mar 17 05:54	6°♌25'18	
asc. node	7201 Apr 18 20:45	17°♍55'54		greatest brilliancy	7202 Mar 24 11:56	18°♌03'52	-0.9m
evening max el	7201 Apr 23 21:54	24°♍12'45	18°15'29		7202 Apr 01 06:01	0°♍	
retrograde	7201 Apr 30 07:19	27°♍37'04		asc. node	7202 Apr 05 17:48	5°♍55'40	
evening set	7201 May 03 06:23	26°♍50'09		evening max el	7202 Apr 07 09:19	7°♍43'28	18°43'22
inferior conj	7201 May 09 05:53	21°♍28'33	3°16'44	retrograde	7202 Apr 14 00:31	11°♍23'22	
minimum elong	7201 May 09 07:26	21°♍24'11	3°16'31	evening set	7202 Apr 17 06:34	10°♍22'56	
min. Earth dist.	7201 May 11 18:30	18°♍39'10	0.63624 AU	inferior conj	7202 Apr 22 21:57	4°♍44'24	3°26'31
morning rise	7201 May 15 07:20	15°♍17'03		minimum elong	7202 Apr 22 22:04	4°♍44'01	3°26'28
direct	7201 May 22 02:03	12°♍37'13		min. Earth dist.	7202 Apr 24 19:14	2°♍25'26	0.65405 AU
desc. node	7201 May 24 02:57	12°♍50'15			7202 Apr 26 22:33	30°♌♌	
morning max el	7201 Jun 04 22:48	20°♍38'15	27°42'15	morning rise	7202 Apr 28 12:58	28°♌28'11	
	7201 Jun 13 00:16	0°♎		direct	7202 May 05 02:29	25°♌40'13	
	7201 Jul 02 07:31	0°♏		desc. node	7202 May 10 23:57	27°♌29'46	
morning set	7201 Jul 09 16:53	14°♏00'23			7202 May 14 13:22	0°♏	
max. Earth dist.	7201 Jul 14 18:09	24°♏22'50	1.32779 AU	morning max el	7202 May 18 09:11	3°♏31'00	26°57'09
asc. node	7201 Jul 15 19:59	26°♏39'42			7202 Jun 07 09:04	0°♎	
	7201 Jul 17 09:25	0°♏		morning set	7202 Jun 23 02:42	27°♎22'14	
superior conj	7201 Jul 17 13:39	0°♏22'42	0°17'43		7202 Jun 24 11:20	0°♏	
minimum elong	7201 Jul 17 12:48	0°♏18'08	0°17'28	max. Earth dist.	7202 Jun 27 11:18	5°♏56'48	1.34001 AU
evening rise	7201 Jul 24 13:44	15°♏30'04		superior conj	7202 Jul 01 15:06	14°♏29'47	-0°10'59
	7201 Jul 31 18:29	0°♐		minimum elong	7202 Jul 01 15:41	14°♏32'54	0°10'57
evening max el	7201 Aug 16 07:36	22°♐22'50	23°06'34	behind sun begin	7202 Jul 01 11:30	14°♏11'02	
desc. node	7201 Aug 20 02:05	25°♐34'22		behind sun end	7202 Jul 01 19:52	14°♏54'47	
retrograde	7201 Aug 29 16:50	29°♐04'34		asc. node	7202 Jul 02 17:00	16°♏45'43	
evening set	7201 Sep 02 13:20	28°♐32'03			7202 Jul 08 23:11	0°♏	
min. Earth dist.	7201 Sep 09 16:25	25°♐17'03	0.55429 AU	evening rise	7202 Jul 09 00:05	0°♏04'39	
inferior conj	7201 Sep 11 08:04	24°♐19'32	-5°16'36		7202 Jul 26 10:51	0°♐	
minimum elong	7201 Sep 11 02:56	24°♐27'01	5°16'01	evening max el	7202 Jul 29 00:24	2°♐45'56	21°31'15
morning rise	7201 Sep 19 18:44	20°♐29'09		desc. node	7202 Aug 06 23:07	8°♐24'38	
direct	7201 Sep 22 18:40	20°♐07'51		retrograde	7202 Aug 10 07:26	8°♐51'30	
morning max el	7201 Oct 03 16:25	25°♐13'10	20°37'13	evening set	7202 Aug 12 19:58	8°♐36'59	
	7201 Oct 07 23:48	0°♑		inferior conj	7202 Aug 22 02:20	4°♐37'52	-4°11'58
asc. node	7201 Oct 11 19:25	5°♑26'33		minimum elong	7202 Aug 21 17:02	4°♐50'55	4°09'32
morning set	7201 Oct 22 16:30	25°♑41'10		min. Earth dist.	7202 Aug 22 01:39	4°♐38'51	0.54742 AU
	7201 Oct 24 18:33	0°♒		morning rise	7202 Aug 30 15:06	0°♐46'20	
superior conj	7201 Oct 30 04:09	11°♒09'32	1°39'02	direct	7202 Sep 03 04:00	0°♐19'12	
minimum elong	7201 Oct 30 05:28	11°♒16'14	1°39'01	morning max el	7202 Sep 15 14:45	6°♐11'59	22°11'19
max. Earth dist.	7201 Nov 04 05:53	21°♒15'38	1.36086 AU	asc. node	7202 Sep 28 16:26	24°♐00'08	
evening rise	7201 Nov 08 04:09	28°♒41'58			7202 Oct 01 22:17	0°♑	
	7201 Nov 08 21:07	0°♑		morning set	7202 Oct 07 02:41	10°♑29'27	
desc. node	7201 Nov 16 01:10	12°♑32'41		superior conj	7202 Oct 14 05:38	25°♑37'48	1°42'06
	7201 Nov 27 07:00	0°♒		minimum elong	7202 Oct 14 05:34	25°♑37'30	1°42'09
evening max el	7201 Dec 13 18:05	20°♒17'35	26°09'13		7202 Oct 16 07:40	0°♒	
retrograde	7201 Dec 26 10:15	27°♒28'48		max. Earth dist.	7202 Oct 17 20:15	3°♒08'43	1.34371 AU
evening set	7202 Jan 01 15:34	24°♒56'32		evening rise	7202 Oct 22 08:06	12°♒06'13	
min. Earth dist.	7202 Jan 05 20:46	20°♒29'34	0.66766 AU		7202 Nov 01 05:43	0°♑	
inferior conj	7202 Jan 07 10:18	18°♒33'41	-0°07'05	desc. node	7202 Nov 02 22:11	2°♑47'48	
minimum elong	7202 Jan 07 10:29	18°♒33'07	0°06'55		7202 Nov 22 12:13	0°♒	
transit middle	7202 Jan 07 10:29	18°♒33'07	0°06'55	evening max el	7202 Nov 26 07:02	3°♒55'10	26°59'48
transit begin	7202 Jan 07 07:54	18°♒41'07		retrograde	7202 Dec 09 13:22	11°♒14'26	
transit end	7202 Jan 07 13:04	18°♒25'08		evening set	7202 Dec 16 05:58	8°♒37'02	
asc. node	7202 Jan 07 18:42	18°♒07'45		min. Earth dist.	7202 Dec 20 05:06	4°♒44'35	0.65517 AU

inferior conj	7202 Dec 22 06:16	2°  24'17	-1°08'43	inferior conj	7203 Dec 05 17:41	16°  02'12	-2°14'49
minimum elong	7202 Dec 22 08:16	2°  18'35	1°07'47	minimum elong	7203 Dec 05 21:49	15°  51'31	2°13'07
	7202 Dec 24 10:42	30°  R 		morning rise	7203 Dec 12 10:27	10°  40'59	
asc. node	7202 Dec 25 15:45	28°  49'16		asc. node	7203 Dec 12 12:48	10°  38'40	
morning rise	7202 Dec 28 11:42	26°  48'19		direct	7203 Dec 14 21:21	10°  11'01	
direct	7202 Dec 31 05:26	26°  07'38		morning max el	7203 Dec 21 09:40	13°  34'51	17°50'39
morning max el	7203 Jan 06 16:34	29°  34'32	18°08'38		7204 Jan 01 19:42	0° 	
	7203 Jan 07 02:37	0° 		morning set	7204 Jan 07 02:53	9°  01'01	
morning set	7203 Jan 25 05:20	27°  00'12		desc. node	7204 Jan 16 18:28	25°  16'32	
	7203 Jan 27 01:29	0° 					
desc. node	7203 Jan 29 21:29	4°  35'46		superior conj	7204 Jan 19 23:12	0°  30'55	-0°22'47
				minimum elong	7204 Jan 19 20:39	0°  20'30	0°22'21
superior conj	7203 Feb 09 01:34	20°  49'37	-1°08'11		7204 Jan 19 15:36	0° 	
minimum elong	7203 Feb 08 17:36	20°  18'14	1°07'09	max. Earth dist.	7204 Jan 25 11:05	9°  20'36	1.44663 AU
max. Earth dist.	7203 Feb 11 16:17	24°  56'13	1.45368 AU	evening rise	7204 Feb 04 18:09	25°  23'52	
	7203 Feb 14 21:56	0° 			7204 Feb 07 18:22	0° 	
evening rise	7203 Feb 25 06:19	16°  06'13			7204 Feb 28 12:41	0° 	
	7203 Mar 06 05:58	0° 		evening max el	7204 Mar 03 19:21	4°  55'36	20°28'03
greatest brilliancy	7203 Mar 09 19:15	5°  24'07	-0.7m	asc. node	7204 Mar 09 11:57	9°  08'56	
evening max el	7203 Mar 21 16:54	21°  08'28	19°28'17	retrograde	7204 Mar 11 19:58	9°  37'11	
asc. node	7203 Mar 23 14:52	23°  04'35		evening set	7204 Mar 15 18:40	8°  07'33	
retrograde	7203 Mar 28 21:34	25°  24'54		inferior conj	7204 Mar 21 02:41	2°  00'41	3°04'14
evening set	7203 Apr 01 11:22	24°  10'11		minimum elong	7204 Mar 21 00:48	2°  07'08	3°03'53
inferior conj	7203 Apr 06 21:47	18°  16'31	3°21'21	min. Earth dist.	7204 Mar 21 18:52	1°  05'23	0.67717 AU
minimum elong	7203 Apr 06 20:43	18°  20'03	3°21'14		7204 Mar 22 14:14	30°  R 	
min. Earth dist.	7203 Apr 08 03:59	16°  37'27	0.66779 AU	morning rise	7204 Mar 26 06:42	25°  45'31	
morning rise	7203 Apr 12 05:43	11°  59'38		direct	7204 Mar 31 21:28	23°  45'17	
direct	7203 Apr 18 09:18	9°  15'41		morning max el	7204 Apr 12 03:49	29°  45'41	24°22'17
desc. node	7203 Apr 27 20:57	13°  55'45			7204 Apr 12 03:57	0° 	
morning max el	7203 Apr 30 19:00	16°  40'53	25°47'11	desc. node	7204 Apr 13 17:58	1°  39'38	
	7203 May 11 20:21	0° 			7204 May 04 17:15	0° 	
	7203 May 31 07:17	0° 		morning set	7204 May 17 23:11	21°  41'48	
morning set	7203 Jun 05 22:30	10°  00'39		max. Earth dist.	7204 May 21 14:40	28°  09'48	1.37755 AU
max. Earth dist.	7203 Jun 09 17:08	17°  04'42	1.35690 AU		7204 May 22 14:58	0° 	
superior conj	7203 Jun 15 08:28	28°  09'12	-0°41'45	superior conj	7204 May 28 14:29	11°  12'36	-1°12'44
minimum elong	7203 Jun 15 10:53	28°  21'25	0°41'22	minimum elong	7204 May 28 18:48	11°  33'23	1°12'07
	7203 Jun 16 06:24	0° 		asc. node	7204 Jun 05 11:03	26°  40'10	
asc. node	7203 Jun 19 14:01	6°  47'11		evening rise	7204 Jun 06 07:56	28°  23'47	
evening rise	7203 Jun 23 06:58	14°  47'45			7204 Jun 07 03:24	0° 	
	7203 Jul 01 08:37	0° 		evening max el	7204 Jun 22 22:43	25°  45'35	19°09'22
evening max el	7203 Jul 11 05:09	13°  43'46	20°10'27	retrograde	7204 Jul 01 21:45	29°  50'20	
retrograde	7203 Jul 21 20:42	18°  58'03		evening set	7204 Jul 03 20:10	29°  38'51	
evening set	7203 Jul 23 18:45	18°  48'36		desc. node	7204 Jul 10 17:15	26°  28'50	
desc. node	7203 Jul 24 20:10	18°  35'39		inferior conj	7204 Jul 12 06:17	25°  27'16	-0°28'01
inferior conj	7203 Aug 01 21:12	14°  50'16	-2°24'57	minimum elong	7204 Jul 12 05:05	25°  29'18	0°27'38
minimum elong	7203 Aug 01 14:32	15°  00'08	2°22'35	min. Earth dist.	7204 Jul 15 02:44	23°  32'11	0.56192 AU
min. Earth dist.	7203 Aug 03 12:44	13°  51'42	0.55010 AU	morning rise	7204 Jul 20 10:57	20°  39'36	
morning rise	7203 Aug 10 08:58	10°  37'20		direct	7204 Jul 25 13:46	19°  38'57	
direct	7203 Aug 14 15:08	9°  58'01		morning max el	7204 Aug 08 18:07	26°  53'25	25°36'53
morning max el	7203 Aug 28 05:02	16°  36'39	23°56'07		7204 Aug 11 18:12	0° 	
	7203 Sep 07 23:16	0° 			7204 Aug 31 02:55	0° 	
asc. node	7203 Sep 15 13:26	13°  06'22		asc. node	7204 Sep 01 10:25	2°  36'27	
morning set	7203 Sep 21 14:20	25°  20'30		morning set	7204 Sep 05 01:45	10°  08'52	
	7203 Sep 23 18:28	0° 					
superior conj	7203 Sep 28 12:45	10°  21'11	1°38'40	superior conj	7204 Sep 11 23:11	25°  11'51	1°29'30
minimum elong	7203 Sep 28 11:35	10°  14'48	1°38'38	minimum elong	7204 Sep 11 21:15	25°  01'12	1°29'18
max. Earth dist.	7203 Sep 30 19:23	15°  15'22	1.33066 AU	max. Earth dist.	7204 Sep 13 01:39	27°  17'27	1.32206 AU
evening rise	7203 Oct 05 23:58	26°  03'10			7204 Sep 14 03:42	0° 	
	7203 Oct 07 23:39	0° 		evening rise	7204 Sep 19 00:25	10°  22'51	
desc. node	7203 Oct 20 19:13	22°  14'17			7204 Sep 29 06:13	0° 	
	7203 Oct 25 14:58	0° 		desc. node	7204 Oct 06 16:17	12°  03'27	
evening max el	7203 Nov 08 19:14	17°  15'16	27°26'13	evening max el	7204 Oct 21 04:18	0° 	27°22'18
retrograde	7203 Nov 22 10:11	24°  33'46			7204 Oct 21 02:54	0° 	
evening set	7203 Nov 29 10:48	21°  58'58		retrograde	7204 Nov 03 23:41	7°  16'46	
min. Earth dist.	7203 Dec 03 05:02	18°  39'05	0.63935 AU	evening set	7204 Nov 11 02:45	4°  54'15	
				min. Earth dist.	7204 Nov 14 18:36	2°  01'43	0.62069 AU



	7204 Nov 16 23:45	30° $\mathbb{M}$		min. Earth dist.	7205 Oct 27 21:15	14° $\mathbb{M}$ 39'34	0.60016 AU
inferior conj	7204 Nov 17 17:30	29° $\mathbb{M}$ 18'48	-3°22'21	inferior conj	7205 Oct 31 02:13	12° $\mathbb{M}$ 04'51	-4°25'19
minimum elong	7204 Nov 17 23:37	29° $\mathbb{M}$ 04'42	3°20'13	minimum elong	7205 Oct 31 09:11	11° $\mathbb{M}$ 50'49	4°23'31
morning rise	7204 Nov 24 22:30	24° $\mathbb{M}$ 15'50		morning rise	7205 Nov 07 19:04	7° $\mathbb{M}$ 23'31	
direct	7204 Nov 27 05:20	23° $\mathbb{M}$ 52'57		direct	7205 Nov 10 01:13	7° $\mathbb{M}$ 04'33	
asc. node	7204 Nov 28 09:51	23° $\mathbb{M}$ 59'20		asc. node	7205 Nov 15 06:51	8° $\mathbb{M}$ 52'22	
morning max el	7204 Dec 04 02:04	27° $\mathbb{M}$ 22'10	17°50'36	morning max el	7205 Nov 17 14:25	10° $\mathbb{M}$ 47'54	18°09'45
	7204 Dec 06 10:25	0° $\mathbb{A}$			7205 Nov 30 05:48	0° $\mathbb{A}$	
morning set	7204 Dec 19 21:54	22° $\mathbb{A}$ 02'58		morning set	7205 Dec 03 08:14	5° $\mathbb{A}$ 47'33	
	7204 Dec 24 08:39	0° $\mathbb{B}$					
superior conj	7204 Dec 30 22:15	11° $\mathbb{B}$ 25'59	0°19'41	superior conj	7205 Dec 12 22:02	23° $\mathbb{A}$ 32'18	0°53'55
minimum elong	7204 Dec 31 00:02	11° $\mathbb{B}$ 33'38	0°19'30	minimum elong	7205 Dec 13 01:32	23° $\mathbb{A}$ 48'03	0°53'31
desc. node	7205 Jan 02 15:28	16° $\mathbb{B}$ 01'30			7205 Dec 16 13:32	0° $\mathbb{B}$	
max. Earth dist.	7205 Jan 07 02:53	23° $\mathbb{B}$ 24'38	1.43309 AU	max. Earth dist.	7205 Dec 20 13:41	6° $\mathbb{B}$ 52'26	1.41459 AU
	7205 Jan 11 05:21	0° $\mathbb{A}$		desc. node	7205 Dec 20 12:29	6° $\mathbb{B}$ 47'23	
evening rise	7205 Jan 14 08:23	4° $\mathbb{A}$ 55'01		evening rise	7205 Dec 25 14:24	15° $\mathbb{B}$ 10'58	
	7205 Jan 31 03:24	0° $\mathbb{H}$			7206 Jan 04 02:06	0° $\mathbb{A}$	
evening max el	7205 Feb 14 16:20	18° $\mathbb{H}$ 33'37	21°39'29	evening max el	7206 Jan 26 06:05	0° $\mathbb{H}$	
retrograde	7205 Feb 23 17:43	23° $\mathbb{H}$ 55'39		retrograde	7206 Jan 28 08:42	2° $\mathbb{H}$ 13'38	22°57'59
asc. node	7205 Feb 24 09:01	23° $\mathbb{H}$ 53'32		asc. node	7206 Feb 07 13:20	8° $\mathbb{H}$ 16'19	
evening set	7205 Feb 28 02:39	22° $\mathbb{H}$ 10'40		evening set	7206 Feb 11 06:05	7° $\mathbb{H}$ 07'17	
inferior conj	7205 Mar 05 10:21	15° $\mathbb{H}$ 53'12	2°37'05	inferior conj	7206 Feb 12 09:44	6° $\mathbb{H}$ 16'11	
minimum elong	7205 Mar 05 08:05	16° $\mathbb{H}$ 01'07	2°36'30	minimum elong	7206 Feb 17 18:50	29° $\mathbb{A}$ 51'20	2°01'07
min. Earth dist.	7205 Mar 05 13:45	15° $\mathbb{H}$ 41'25	0.68217 AU	min. Earth dist.	7206 Feb 17 16:37	29° $\mathbb{A}$ 59'01	2°00'26
morning rise	7205 Mar 10 13:20	9° $\mathbb{H}$ 41'11			7206 Feb 17 10:24	0° $\mathbb{H}$ 20'31	0.68303 AU
direct	7205 Mar 15 13:54	7° $\mathbb{H}$ 30'50		morning rise	7206 Feb 17 16:20	30° $\mathbb{R}$ $\mathbb{A}$	
morning max el	7205 Mar 25 13:39	13° $\mathbb{H}$ 25'23	22°52'39	direct	7206 Feb 22 23:25	23° $\mathbb{A}$ 43'47	
desc. node	7205 Mar 31 14:57	20° $\mathbb{H}$ 19'20		morning max el	7206 Feb 27 09:47	21° $\mathbb{A}$ 55'53	
	7205 Apr 07 21:43	0° $\mathbb{Y}$			7206 Mar 08 03:55	27° $\mathbb{A}$ 00'37	21°27'03
	7205 Apr 27 15:11	0° $\mathbb{B}$		desc. node	7206 Mar 10 22:24	0° $\mathbb{H}$	
morning set	7205 Apr 28 23:04	2° $\mathbb{B}$ 11'15			7206 Mar 18 11:56	9° $\mathbb{H}$ 39'24	
max. Earth dist.	7205 May 03 11:03	9° $\mathbb{B}$ 46'13	1.39982 AU	morning set	7206 Apr 01 11:03	0° $\mathbb{Y}$	
				max. Earth dist.	7206 Apr 08 18:58	11° $\mathbb{Y}$ 22'47	
superior conj	7205 May 11 05:00	23° $\mathbb{B}$ 29'47	-1°41'03		7206 Apr 15 12:06	22° $\mathbb{Y}$ 13'12	1.42102 AU
minimum elong	7205 May 11 10:31	23° $\mathbb{B}$ 54'58	1°40'29		7206 Apr 20 03:45	0° $\mathbb{B}$	
	7205 May 14 17:22	0° $\mathbb{I}$		superior conj	7206 Apr 22 23:11	4° $\mathbb{B}$ 48'59	-2°02'23
evening rise	7205 May 20 23:53	11° $\mathbb{I}$ 53'31		minimum elong	7206 Apr 23 03:47	5° $\mathbb{B}$ 08'53	2°02'10
asc. node	7205 May 23 08:07	16° $\mathbb{I}$ 20'13		evening rise	7206 May 04 02:53	24° $\mathbb{B}$ 43'39	
	7205 May 31 02:09	0° $\mathbb{E}$			7206 May 07 00:33	0° $\mathbb{I}$	
evening max el	7205 Jun 06 02:23	7° $\mathbb{E}$ 47'03	18°29'00	asc. node	7206 May 10 05:10	5° $\mathbb{I}$ 41'22	
retrograde	7205 Jun 13 17:48	11° $\mathbb{E}$ 35'10		evening max el	7206 May 20 12:24	20° $\mathbb{I}$ 38'15	18°08'41
evening set	7205 Jun 15 22:26	11° $\mathbb{E}$ 17'19		retrograde	7206 May 27 07:44	24° $\mathbb{I}$ 05'20	
inferior conj	7205 Jun 23 12:34	6° $\mathbb{E}$ 46'09	1°10'31	evening set	7206 May 29 19:41	23° $\mathbb{I}$ 37'51	
minimum elong	7205 Jun 23 14:55	6° $\mathbb{E}$ 41'28	1°09'37	inferior conj	7206 Jun 05 15:46	18° $\mathbb{I}$ 46'26	2°20'18
min. Earth dist.	7205 Jun 26 21:32	4° $\mathbb{E}$ 06'50	0.58041 AU	minimum elong	7206 Jun 05 18:57	18° $\mathbb{I}$ 39'04	2°19'23
desc. node	7205 Jun 27 14:18	3° $\mathbb{E}$ 35'55		min. Earth dist.	7206 Jun 08 23:13	15° $\mathbb{I}$ 44'22	0.60231 AU
morning rise	7205 Jul 01 04:04	1° $\mathbb{E}$ 22'46		morning rise	7206 Jun 12 15:32	12° $\mathbb{I}$ 56'13	
	7205 Jul 05 08:52	30° $\mathbb{R}$ $\mathbb{I}$		desc. node	7206 Jun 14 11:20	11° $\mathbb{I}$ 57'02	
direct	7205 Jul 07 02:31	29° $\mathbb{I}$ 52'14		direct	7206 Jun 19 04:10	10° $\mathbb{I}$ 53'01	
	7205 Jul 08 20:32	0° $\mathbb{E}$		morning max el	7206 Jul 03 12:22	18° $\mathbb{I}$ 48'57	27°44'20
morning max el	7205 Jul 21 11:55	7° $\mathbb{E}$ 32'02	26°57'04		7206 Jul 12 22:44	0° $\mathbb{E}$	
	7205 Aug 07 08:22	0° $\mathbb{Q}$			7206 Jul 31 02:23	0° $\mathbb{Q}$	
asc. node	7205 Aug 19 07:26	22° $\mathbb{Q}$ 23'46		morning set	7206 Aug 04 17:17	9° $\mathbb{Q}$ 17'30	
morning set	7205 Aug 20 11:21	24° $\mathbb{Q}$ 50'01		asc. node	7206 Aug 06 04:26	12° $\mathbb{Q}$ 21'54	
	7205 Aug 22 21:14	0° $\mathbb{P}$		max. Earth dist.	7206 Aug 10 22:04	22° $\mathbb{Q}$ 37'04	1.31811 AU
superior conj	7205 Aug 27 10:59	10° $\mathbb{P}$ 03'56	1°15'10	superior conj	7206 Aug 11 22:19	24° $\mathbb{Q}$ 50'42	0°56'08
minimum elong	7205 Aug 27 08:44	9° $\mathbb{P}$ 51'25	1°14'49	minimum elong	7206 Aug 11 20:12	24° $\mathbb{Q}$ 39'04	0°55'42
max. Earth dist.	7205 Aug 27 11:52	10° $\mathbb{P}$ 08'47	1.31790 AU		7206 Aug 14 06:17	0° $\mathbb{P}$	
evening rise	7205 Sep 03 06:46	24° $\mathbb{P}$ 57'42		evening rise	7206 Aug 18 16:41	9° $\mathbb{P}$ 39'55	
	7205 Sep 05 16:50	0° $\mathbb{L}$			7206 Aug 29 01:35	0° $\mathbb{L}$	
	7205 Sep 23 01:22	0° $\mathbb{M}$		desc. node	7206 Sep 10 10:25	18° $\mathbb{L}$ 17'47	
desc. node	7205 Sep 23 13:22	0° $\mathbb{M}$ 41'38		evening max el	7206 Sep 15 02:31	23° $\mathbb{L}$ 18'59	25°35'18
evening max el	7205 Oct 03 07:22	12° $\mathbb{M}$ 06'37	26°44'39		7206 Sep 25 22:38	0° $\mathbb{M}$	
retrograde	7205 Oct 17 05:03	19° $\mathbb{M}$ 14'57		retrograde	7206 Sep 29 00:53	0° $\mathbb{M}$ 22'38	
evening set	7205 Oct 24 01:32	17° $\mathbb{M}$ 15'49			7206 Oct 02 02:55	30° $\mathbb{R}$ $\mathbb{L}$	





























































































































evening set	7206 Oct 05 02:17	28°♄57'01		evening set	7207 Sep 15 02:24	9°♄53'42	
min. Earth dist.	7206 Oct 09 14:38	26°♄19'45	0.57960 AU	min. Earth dist.	7207 Sep 21 02:02	6°♄56'49	0.56188 AU
inferior conj	7206 Oct 12 16:29	24°♄10'43	-5°13'01	inferior conj	7207 Sep 23 10:30	5°♄30'05	-5°28'59
minimum elong	7206 Oct 12 21:27	24°♄02'00	5°12'20	minimum elong	7207 Sep 23 09:34	5°♄31'32	5°28'57
morning rise	7206 Oct 20 18:56	19°♄52'26		morning rise	7207 Oct 01 18:59	1°♄31'47	
direct	7206 Oct 23 04:29	19°♄34'38		direct	7207 Oct 04 12:35	1°♄12'27	
morning max el	7206 Oct 31 19:07	23°♄41'58	18°49'38	morning max el	7207 Oct 14 12:50	5°♄54'19	19°51'35
asc. node	7206 Nov 02 03:51	25°♄06'06		asc. node	7207 Oct 20 00:51	12°♄25'21	
	7206 Nov 05 23:26	0°♄			7207 Oct 30 02:34	0°♄	
morning set	7206 Nov 17 05:08	20°♄01'04		morning set	7207 Nov 01 09:09	4°♄33'47	
	7206 Nov 22 07:23	0°♄					
superior conj	7206 Nov 25 17:42	6°♄35'34	1°18'30	superior conj	7207 Nov 09 04:07	20°♄20'58	1°33'54
minimum elong	7206 Nov 25 20:58	6°♄51'08	1°18'12	minimum elong	7207 Nov 09 06:14	20°♄31'32	1°33'49
max. Earth dist.	7206 Dec 02 19:46	19°♄35'52	1.39342 AU	max. Earth dist.	7207 Nov 15 01:17	1°♄44'01	1.37222 AU
evening rise	7206 Dec 06 18:18	26°♄26'05		evening rise	7207 Nov 18 19:42	8°♄38'40	
desc. node	7206 Dec 07 09:31	27°♄30'32		desc. node	7207 Nov 24 06:31	18°♄06'41	
	7206 Dec 08 21:09	0°♄			7207 Dec 01 15:45	0°♄	
	7206 Dec 28 17:05	0°♄		evening max el	7207 Dec 24 11:22	29°♄43'44	25°32'04
evening max el	7207 Jan 10 22:23	15°♄57'23	24°17'49		7207 Dec 24 18:04	0°♄	
retrograde	7207 Jan 22 05:29	22°♄34'58		retrograde	7208 Jan 05 17:05	6°♄45'36	
evening set	7207 Jan 27 14:23	20°♄20'39		evening set	7208 Jan 11 14:57	4°♄19'10	
asc. node	7207 Jan 29 03:07	18°♄52'02			7208 Jan 15 15:08	30°♄	
min. Earth dist.	7207 Feb 01 06:37	14°♄58'54	0.67996 AU	min. Earth dist.	7208 Jan 16 00:02	29°♄31'54	0.67319 AU
inferior conj	7207 Feb 02 02:18	13°♄52'41	1°17'07	asc. node	7208 Jan 16 00:09	29°♄31'33	
minimum elong	7207 Feb 02 00:37	13°♄58'20	1°16'33	inferior conj	7208 Jan 17 06:54	27°♄52'57	0°25'40
morning rise	7207 Feb 07 10:57	7°♄51'02		minimum elong	7208 Jan 17 06:16	27°♄55'02	0°25'29
direct	7207 Feb 11 07:57	6°♄25'21		morning rise	7208 Jan 22 21:57	21°♄59'16	
morning max el	7207 Feb 19 01:22	10°♄47'51	20°12'03	direct	7208 Jan 26 07:01	20°♄53'38	
desc. node	7207 Mar 05 08:55	29°♄29'05		morning max el	7208 Feb 02 06:39	24°♄45'15	19°11'21
	7207 Mar 05 17:21	0°♄			7208 Feb 06 19:03	0°♄	
morning set	7207 Mar 18 18:22	19°♄42'17		greatest brilliancy	7208 Feb 15 16:53	12°♄44'22	-0.7m
	7207 Mar 25 08:37	0°♄		desc. node	7208 Feb 20 05:52	19°♄39'43	
max. Earth dist.	7207 Mar 28 20:12	5°♄32'14	1.43847 AU	morning set	7208 Feb 25 19:23	28°♄14'59	
					7208 Feb 26 22:29	0°♄	
superior conj	7207 Apr 03 17:05	15°♄03'32	-2°11'02	max. Earth dist.	7208 Mar 10 10:59	19°♄32'34	1.45008 AU
minimum elong	7207 Apr 03 17:09	15°♄03'50	2°11'04				
	7207 Apr 12 14:33	0°♄		superior conj	7208 Mar 13 11:04	24°♄17'20	-2°01'21
evening rise	7207 Apr 16 12:28	6°♄44'55		minimum elong	7208 Mar 13 04:21	23°♄50'43	2°00'57
asc. node	7207 Apr 27 02:13	24°♄37'37			7208 Mar 17 01:09	0°♄	
	7207 Apr 30 18:31	0°♄		evening rise	7208 Mar 28 00:16	17°♄49'03	
evening max el	7207 May 04 01:20	3°♄50'56	18°07'40		7208 Apr 04 09:55	0°♄	
retrograde	7207 May 10 11:31	7°♄12'04		asc. node	7208 Apr 12 23:16	13°♄00'36	
evening set	7207 May 13 06:36	6°♄32'42		evening max el	7208 Apr 16 14:07	17°♄16'55	18°25'14
inferior conj	7207 May 19 12:28	1°♄21'58	3°02'42	retrograde	7208 Apr 23 00:51	20°♄46'01	
minimum elong	7207 May 19 14:49	1°♄15'46	3°02'14	evening set	7208 Apr 26 02:54	19°♄53'23	
	7207 May 20 19:26	30°♄		inferior conj	7208 May 01 22:33	14°♄24'35	3°22'55
min. Earth dist.	7207 May 22 09:25	28°♄21'36	0.62447 AU	minimum elong	7208 May 01 23:29	14°♄21'50	3°22'48
morning rise	7207 May 25 21:21	25°♄15'49		min. Earth dist.	7208 May 04 04:46	11°♄46'31	0.64435 AU
desc. node	7207 Jun 01 08:21	22°♄46'11		morning rise	7208 May 07 19:11	8°♄10'41	
direct	7207 Jun 01 16:17	22°♄45'51		direct	7208 May 14 12:35	5°♄25'39	
	7207 Jun 14 22:49	0°♄		desc. node	7208 May 18 05:20	6°♄08'49	
morning max el	7207 Jun 15 18:24	0°♄48'08	27°53'32	morning max el	7208 May 28 03:47	13°♄23'31	27°26'35
	7207 Jul 07 02:11	0°♄			7208 Jun 10 12:29	0°♄	
morning set	7207 Jul 19 17:30	23°♄25'11			7208 Jun 28 16:33	0°♄	
	7207 Jul 22 21:50	0°♄		morning set	7208 Jul 02 09:28	7°♄05'58	
asc. node	7207 Jul 24 01:27	2°♄26'15		max. Earth dist.	7208 Jul 07 03:17	16°♄40'23	1.33238 AU
max. Earth dist.	7207 Jul 25 04:25	4°♄50'38	1.32287 AU	asc. node	7208 Jul 09 22:29	22°♄32'47	
superior conj	7207 Jul 27 07:23	9°♄26'40	0°32'51	superior conj	7208 Jul 10 12:17	23°♄46'06	0°05'54
minimum elong	7207 Jul 27 05:56	9°♄18'43	0°32'28	minimum elong	7208 Jul 10 11:59	23°♄44'32	0°05'45
evening rise	7207 Aug 03 04:14	24°♄23'36		behind sun begin	7208 Jul 10 06:51	23°♄17'14	
	7207 Aug 05 20:15	0°♄		behind sun end	7208 Jul 10 17:07	24°♄11'52	
	7207 Aug 24 01:26	0°♄			7208 Jul 13 10:05	0°♄	
evening max el	7207 Aug 27 15:20	3°♄49'41	24°03'34	evening rise	7208 Jul 17 15:35	9°♄03'16	
desc. node	7207 Aug 28 07:28	4°♄27'43			7208 Jul 28 13:12	0°♄	
retrograde	7207 Sep 10 08:51	10°♄42'59		evening max el	7208 Aug 08 04:18	14°♄05'46	22°24'56

desc. node	7208 Aug 14 04:31	18° $\mathbb{M}$ 40'36			7209 Jul 29 12:25	0° $\mathbb{M}$	
retrograde	7208 Aug 21 04:12	20° $\mathbb{M}$ 33'54		desc. node	7209 Aug 01 01:35	0° $\mathbb{M}$ 24'18	
evening set	7208 Aug 24 09:36	20° $\mathbb{M}$ 11'00		retrograde	7209 Aug 01 16:34	0° $\mathbb{M}$ 25'15	
min. Earth dist.	7208 Sep 01 10:58	16° $\mathbb{M}$ 39'39	0.55026 AU	evening set	7209 Aug 03 20:53	0° $\mathbb{M}$ 13'56	
inferior conj	7208 Sep 02 10:55	16° $\mathbb{M}$ 05'50	-4°55'48		7209 Aug 04 23:20	30° $\mathbb{R}$ 0	
minimum elong	7208 Sep 02 03:14	16° $\mathbb{M}$ 16'42	4°54'26	inferior conj	7209 Aug 13 03:30	26° $\mathbb{Q}$ 16'48	-3°30'03
morning rise	7208 Sep 10 22:39	12° $\mathbb{M}$ 17'18		minimum elong	7209 Aug 12 18:35	26° $\mathbb{Q}$ 29'26	3°27'17
direct	7208 Sep 14 04:00	11° $\mathbb{M}$ 53'48		min. Earth dist.	7209 Aug 13 20:25	25° $\mathbb{Q}$ 52'49	0.54736 AU
morning max el	7208 Sep 25 17:47	17° $\mathbb{M}$ 18'58	21°15'13	morning rise	7209 Aug 21 16:28	22° $\mathbb{Q}$ 18'59	
asc. node	7208 Oct 05 21:52	0° $\mathbb{A}$ 35'40		direct	7209 Aug 25 12:14	21° $\mathbb{Q}$ 47'41	
	7208 Oct 05 13:12	0° $\mathbb{A}$		morning max el	7209 Sep 07 11:51	27° $\mathbb{Q}$ 59'58	22°55'28
morning set	7208 Oct 15 17:46	19° $\mathbb{A}$ 18'45			7209 Sep 09 11:58	0° $\mathbb{M}$	
	7208 Oct 20 20:03	0° $\mathbb{M}$		asc. node	7209 Sep 22 18:53	19° $\mathbb{M}$ 24'02	
					7209 Sep 28 05:06	0° $\mathbb{A}$	
superior conj	7208 Oct 23 01:08	4° $\mathbb{M}$ 36'52	1°41'10	morning set	7209 Sep 30 04:49	4° $\mathbb{A}$ 08'50	
minimum elong	7208 Oct 23 01:51	4° $\mathbb{M}$ 40'35	1°41'12				
max. Earth dist.	7208 Oct 27 11:47	13° $\mathbb{M}$ 38'42	1.35315 AU	superior conj	7209 Oct 07 05:20	19° $\mathbb{A}$ 12'14	1°41'24
evening rise	7208 Oct 31 15:11	21° $\mathbb{M}$ 40'15		minimum elong	7209 Oct 07 04:46	19° $\mathbb{A}$ 09'11	1°41'25
	7208 Nov 05 04:21	0° $\mathbb{A}$		max. Earth dist.	7209 Oct 10 06:08	25° $\mathbb{A}$ 37'13	1.33763 AU
desc. node	7208 Nov 10 03:33	8° $\mathbb{A}$ 31'33			7209 Oct 12 09:02	0° $\mathbb{M}$	
	7208 Nov 24 11:43	0° $\mathbb{A}$		evening rise	7209 Oct 15 00:39	5° $\mathbb{M}$ 19'08	
evening max el	7208 Dec 06 00:34	13° $\mathbb{A}$ 27'48	26°33'15	desc. node	7209 Oct 28 00:37	28° $\mathbb{M}$ 38'24	
retrograde	7208 Dec 18 23:16	20° $\mathbb{A}$ 42'46			7209 Oct 28 20:56	0° $\mathbb{A}$	
evening set	7208 Dec 25 09:40	18° $\mathbb{A}$ 07'48		evening max el	7209 Nov 18 13:22	26° $\mathbb{A}$ 59'04	27°14'17
min. Earth dist.	7208 Dec 29 12:20	13° $\mathbb{A}$ 55'30	0.66285 AU		7209 Nov 22 00:27	0° $\mathbb{A}$	
inferior conj	7208 Dec 31 06:42	11° $\mathbb{A}$ 48'45	-0°32'30	retrograde	7209 Dec 01 23:36	4° $\mathbb{A}$ 18'20	
minimum elong	7208 Dec 31 07:35	11° $\mathbb{A}$ 46'04	0°32'02	evening set	7209 Dec 08 20:20	1° $\mathbb{A}$ 40'48	
asc. node	7209 Jan 01 21:11	9° $\mathbb{A}$ 56'01			7209 Dec 10 19:04	30° $\mathbb{R}$ 0	
morning rise	7209 Jan 06 06:19	6° $\mathbb{A}$ 05'29		min. Earth dist.	7209 Dec 12 17:11	28° $\mathbb{A}$ 02'51	0.64891 AU
direct	7209 Jan 09 05:10	5° $\mathbb{A}$ 16'40		inferior conj	7209 Dec 14 23:21	25° $\mathbb{A}$ 34'26	-1°36'18
morning max el	7209 Jan 15 18:35	8° $\mathbb{A}$ 49'10	18°26'41	minimum elong	7209 Dec 15 02:14	25° $\mathbb{A}$ 26'31	1°35'02
	7209 Jan 30 18:39	0° $\mathbb{A}$		asc. node	7209 Dec 19 18:13	21° $\mathbb{A}$ 01'26	
morning set	7209 Feb 04 19:52	8° $\mathbb{A}$ 02'18		morning rise	7209 Dec 21 09:28	20° $\mathbb{A}$ 04'31	
desc. node	7209 Feb 06 02:51	10° $\mathbb{A}$ 05'38		direct	7209 Dec 24 00:05	19° $\mathbb{A}$ 28'47	
	7209 Feb 18 17:25	0° $\mathbb{A}$		morning max el	7209 Dec 30 10:42	22° $\mathbb{A}$ 52'53	17°58'52
					7210 Jan 05 02:43	0° $\mathbb{A}$	
superior conj	7209 Feb 20 15:36	3° $\mathbb{A}$ 00'56	-1°31'50	morning set	7210 Jan 17 02:01	19° $\mathbb{A}$ 18'04	
minimum elong	7209 Feb 20 06:03	2° $\mathbb{A}$ 23'31	1°30'50	desc. node	7210 Jan 23 23:52	0° $\mathbb{A}$ 42'07	
max. Earth dist.	7209 Feb 21 05:58	3° $\mathbb{A}$ 57'11	1.45459 AU		7210 Jan 23 13:33	0° $\mathbb{A}$	
evening rise	7209 Mar 08 12:41	27° $\mathbb{A}$ 56'58					
	7209 Mar 09 19:51	0° $\mathbb{Y}$		superior conj	7210 Jan 31 02:05	12° $\mathbb{A}$ 08'12	-0°49'06
greatest brilliancy	7209 Mar 18 06:20	13° $\mathbb{Y}$ 16'39	-0.8m	minimum elong	7210 Jan 30 20:16	11° $\mathbb{A}$ 45'02	0°48'15
	7209 Mar 30 05:13	0° $\mathbb{A}$		max. Earth dist.	7210 Feb 04 01:43	18° $\mathbb{A}$ 26'47	1.45157 AU
asc. node	7209 Mar 30 20:20	0° $\mathbb{A}$ 40'03			7210 Feb 11 11:17	0° $\mathbb{A}$	
evening max el	7209 Mar 31 00:09	0° $\mathbb{A}$ 49'50	19°00'31	evening rise	7210 Feb 16 06:15	7° $\mathbb{A}$ 24'11	
retrograde	7209 Apr 06 20:01	4° $\mathbb{A}$ 39'27		greatest brilliancy	7210 Mar 02 10:42	28° $\mathbb{A}$ 56'06	-0.6m
evening set	7209 Apr 10 05:22	3° $\mathbb{A}$ 32'48			7210 Mar 03 04:06	0° $\mathbb{Y}$	
	7209 Apr 13 23:20	30° $\mathbb{R}$ 0		evening max el	7210 Mar 14 05:37	14° $\mathbb{Y}$ 25'39	19°52'01
inferior conj	7209 Apr 15 18:17	27° $\mathbb{Y}$ 47'29	3°25'56	asc. node	7210 Mar 17 17:23	17° $\mathbb{Y}$ 23'21	
minimum elong	7209 Apr 15 17:51	27° $\mathbb{Y}$ 48'49	3°25'52	retrograde	7210 Mar 21 18:03	18° $\mathbb{Y}$ 46'24	
min. Earth dist.	7209 Apr 17 08:57	25° $\mathbb{Y}$ 45'03	0.66048 AU	evening set	7210 Mar 25 11:30	17° $\mathbb{Y}$ 25'15	
morning rise	7209 Apr 21 05:55	21° $\mathbb{Y}$ 30'50		inferior conj	7210 Mar 30 20:36	11° $\mathbb{Y}$ 25'24	3°15'26
direct	7209 Apr 27 15:41	18° $\mathbb{Y}$ 43'29		minimum elong	7210 Mar 30 19:07	11° $\mathbb{Y}$ 30'19	3°15'13
desc. node	7209 May 05 02:20	21° $\mathbb{Y}$ 37'16		min. Earth dist.	7210 Mar 31 20:35	10° $\mathbb{Y}$ 05'01	0.67229 AU
morning max el	7209 May 10 14:05	26° $\mathbb{Y}$ 24'24	26°29'51	morning rise	7210 Apr 05 02:30	5° $\mathbb{Y}$ 08'58	
	7209 May 13 21:54	0° $\mathbb{A}$		direct	7210 Apr 11 00:44	2° $\mathbb{Y}$ 30'11	
	7209 Jun 04 02:41	0° $\mathbb{I}$		desc. node	7210 Apr 21 23:20	8° $\mathbb{Y}$ 39'38	
morning set	7209 Jun 15 13:50	20° $\mathbb{I}$ 10'13		morning max el	7210 Apr 22 23:39	9° $\mathbb{Y}$ 39'45	25°12'21
max. Earth dist.	7209 Jun 19 15:50	28° $\mathbb{I}$ 02'33	1.34670 AU		7210 May 09 01:11	0° $\mathbb{A}$	
	7209 Jun 20 15:32	0° $\mathbb{A}$			7210 May 27 17:23	0° $\mathbb{I}$	
				morning set	7210 May 29 02:15	2° $\mathbb{I}$ 26'27	
superior conj	7209 Jun 24 10:39	7° $\mathbb{A}$ 42'02	-0°23'53	max. Earth dist.	7210 Jun 01 17:55	9° $\mathbb{I}$ 07'28	1.36532 AU
minimum elong	7209 Jun 24 11:59	7° $\mathbb{A}$ 48'56	0°23'41				
asc. node	7209 Jun 26 19:30	12° $\mathbb{A}$ 37'08		superior conj	7210 Jun 07 23:39	21° $\mathbb{I}$ 07'13	-0°55'01
evening rise	7209 Jul 02 00:46	23° $\mathbb{A}$ 32'27		minimum elong	7210 Jun 08 02:54	21° $\mathbb{I}$ 23'18	0°54'30
	7209 Jul 05 04:39	0° $\mathbb{Q}$			7210 Jun 12 09:53	0° $\mathbb{A}$	
evening max el	7209 Jul 21 01:38	24° $\mathbb{Q}$ 40'30	20°54'37	asc. node	7210 Jun 13 16:33	2° $\mathbb{A}$ 35'40	

evening rise	7210 Jun 16 05:32	7°♄44'53		evening rise	7211 May 31 03:03	21°♄32'04	
	7210 Jun 28 14:11	0°♄		asc. node	7211 May 31 13:35	22°♄23'27	
evening max el	7210 Jul 03 11:54	5°♄56'31	19°41'54		7211 Jun 04 12:49	0°♄	
retrograde	7210 Jul 13 09:54	10°♄49'18		evening max el	7211 Jun 16 10:12	17°♄56'02	18°49'43
evening set	7210 Jul 15 06:40	10°♄39'42		retrograde	7211 Jun 24 18:33	22°♄03'14	
desc. node	7210 Jul 18 22:37	9°♄30'31		evening set	7211 Jun 26 19:09	21°♄49'37	
inferior conj	7210 Jul 24 03:07	6°♄36'43	-1°34'31	inferior conj	7211 Jul 04 20:51	17°♄30'27	0°17'00
minimum elong	7210 Jul 23 22:47	6°♄43'29	1°32'56	minimum elong	7211 Jul 04 21:31	17°♄29'15	0°16'41
min. Earth dist.	7210 Jul 26 08:40	5°♄13'22	0.55408 AU	desc. node	7211 Jul 05 19:40	16°♄48'59	
morning rise	7210 Aug 01 12:40	2°♄09'43		min. Earth dist.	7211 Jul 08 00:47	15°♄14'03	0.56914 AU
direct	7210 Aug 06 03:03	1°♄22'48		morning rise	7211 Jul 12 20:26	12°♄26'37	
morning max el	7210 Aug 20 01:02	8°♄18'16	24°40'33	direct	7211 Jul 18 08:04	11°♄13'47	
	7210 Sep 04 23:37	0°♄		morning max el	7211 Aug 01 15:39	18°♄41'13	26°14'20
asc. node	7210 Sep 09 15:55	8°♄41'10			7211 Aug 11 03:52	0°♄	
morning set	7210 Sep 14 16:34	18°♄59'06		asc. node	7211 Aug 27 12:56	28°♄19'09	
	7210 Sep 19 18:25	0°♄			7211 Aug 28 08:33	0°♄	
				morning set	7211 Aug 30 03:23	3°♄44'41	
superior conj	7210 Sep 21 14:08	3°♄59'20	1°35'27	superior conj	7211 Sep 06 01:22	18°♄51'19	1°24'02
minimum elong	7210 Sep 21 12:35	3°♄50'53	1°35'21	minimum elong	7211 Sep 05 23:15	18°♄39'34	1°23'45
max. Earth dist.	7210 Sep 23 08:28	7°♄49'41	1.32642 AU	max. Earth dist.	7211 Sep 06 16:36	20°♄15'29	1.31969 AU
evening rise	7210 Sep 28 20:30	19°♄26'10			7211 Sep 11 03:45	0°♄	
	7210 Oct 04 05:35	0°♄		evening rise	7211 Sep 12 23:44	3°♄53'01	
desc. node	7210 Oct 14 21:41	18°♄19'33			7211 Sep 26 23:21	0°♄	
	7210 Oct 23 02:01	0°♄		desc. node	7211 Oct 01 18:45	7°♄24'43	
evening max el	7210 Nov 01 00:17	10°♄05'52	27°28'25	evening max el	7211 Oct 14 07:06	22°♄36'11	27°10'32
retrograde	7210 Nov 14 17:33	17°♄23'12		retrograde	7211 Oct 28 04:08	29°♄48'06	
evening set	7210 Nov 21 20:09	14°♄51'56		evening set	7211 Nov 04 05:26	27°♄34'14	
min. Earth dist.	7210 Nov 25 12:43	11°♄44'54	0.63170 AU	min. Earth dist.	7211 Nov 07 21:51	24°♄50'08	0.61200 AU
inferior conj	7210 Nov 28 06:11	9°♄03'36	-2°43'36	inferior conj	7211 Nov 11 00:02	22°♄08'36	-3°50'12
minimum elong	7210 Nov 28 11:13	8°♄51'10	2°41'38	minimum elong	7211 Nov 11 06:44	21°♄53'58	3°48'05
morning rise	7210 Dec 05 04:09	3°♄50'05		morning rise	7211 Nov 18 10:14	17°♄14'31	
asc. node	7210 Dec 06 15:16	3°♄27'32		direct	7211 Nov 20 16:08	16°♄53'47	
direct	7210 Dec 07 12:53	3°♄23'38		asc. node	7211 Nov 23 12:18	17°♄28'16	
morning max el	7210 Dec 14 03:58	6°♄48'43	17°48'26	morning max el	7211 Nov 27 19:05	20°♄28'20	17°56'19
	7210 Dec 29 09:00	0°♄			7211 Dec 04 21:44	0°♄	
morning set	7210 Dec 30 09:30	1°♄46'52		morning set	7211 Dec 13 11:44	15°♄09'12	
desc. node	7211 Jan 10 20:52	21°♄25'02			7211 Dec 21 16:31	0°♄	
superior conj	7211 Jan 11 10:09	22°♄20'09	-0°04'01	superior conj	7211 Dec 23 20:12	3°♄47'11	0°35'21
minimum elong	7211 Jan 11 09:45	22°♄18'29	0°03'52	minimum elong	7211 Dec 23 23:01	3°♄59'28	0°35'01
behind sun begin	7211 Jan 11 00:36	21°♄40'32		desc. node	7211 Dec 28 17:53	12°♄11'06	
behind sun end	7211 Jan 11 18:54	22°♄56'22		max. Earth dist.	7211 Dec 31 08:33	16°♄31'59	1.42566 AU
	7211 Jan 16 02:36	0°♄		evening rise	7212 Jan 06 12:51	26°♄30'21	
max. Earth dist.	7211 Jan 17 19:12	2°♄43'13	1.44152 AU		7212 Jan 08 18:17	0°♄	
evening rise	7211 Jan 26 17:06	16°♄42'26			7212 Jan 29 07:24	0°♄	
	7211 Feb 04 11:26	0°♄		evening max el	7212 Feb 08 00:30	11°♄41'58	22°12'21
evening max el	7211 Feb 25 05:35	28°♄02'38	20°57'15	retrograde	7212 Feb 17 13:31	17°♄21'42	
	7211 Feb 27 07:30	0°♄		asc. node	7212 Feb 19 11:29	17°♄02'47	
asc. node	7211 Mar 04 14:27	2°♄55'31		evening set	7212 Feb 22 03:05	15°♄30'29	
retrograde	7211 Mar 05 16:30	3°♄01'40		inferior conj	7212 Feb 27 11:12	9°♄09'32	2°22'52
evening set	7211 Mar 09 19:18	1°♄25'38		minimum elong	7212 Feb 27 08:54	9°♄17'34	2°22'14
	7211 Mar 11 08:27	30°♄8'8		min. Earth dist.	7212 Feb 27 09:33	9°♄15'16	0.68305 AU
inferior conj	7211 Mar 15 02:56	25°♄13'44	2°53'52	morning rise	7212 Mar 03 14:32	2°♄59'03	
minimum elong	7211 Mar 15 00:50	25°♄21'01	2°53'25	direct	7212 Mar 08 09:05	0°♄57'51	
min. Earth dist.	7211 Mar 15 13:33	24°♄37'03	0.67976 AU	morning max el	7212 Mar 17 19:46	6°♄30'49	22°15'10
morning rise	7211 Mar 20 06:09	18°♄59'29		desc. node	7212 Mar 25 17:19	15°♄48'08	
direct	7211 Mar 25 14:52	16°♄37'10			7212 Apr 04 22:01	0°♄	
morning max el	7211 Apr 05 08:39	23°♄01'47	23°44'08	morning set	7212 Apr 20 04:58	23°♄34'29	
desc. node	7211 Apr 08 20:20	26°♄49'27			7212 Apr 24 02:45	0°♄	
	7211 Apr 11 11:51	0°♄		max. Earth dist.	7212 Apr 25 10:58	2°♄14'57	1.40919 AU
	7211 May 02 09:50	0°♄		superior conj	7212 May 03 06:02	15°♄45'47	-1°51'16
morning set	7211 May 10 17:03	13°♄38'50		minimum elong	7212 May 03 11:31	16°♄10'15	1°50'50
max. Earth dist.	7211 May 14 13:40	20°♄20'23	1.38693 AU		7212 May 11 00:48	0°♄	
	7211 May 19 21:55	0°♄		evening rise	7212 May 13 13:57	4°♄45'46	
superior conj	7211 May 21 23:34	3°♄51'49	-1°25'18	asc. node	7212 May 17 10:37	11°♄55'53	
minimum elong	7211 May 22 04:33	4°♄15'15	1°24'40				

	7212 May 29 04:38	0°☿			7213 Apr 16 13:37	0°♄	
evening max el	7212 May 29 17:04	0°☿31'29	18°17'58	evening rise	7213 Apr 26 10:08	17°♄16'45	
retrograde	7212 Jun 05 22:18	4°☿08'15			7213 May 03 15:38	0°♄	
evening set	7212 Jun 08 06:11	3°☿46'32		asc. node	7213 May 04 07:39	1°♄07'35	
	7212 Jun 14 10:49	30°♄♄		evening max el	7213 May 13 04:47	13°♄33'32	18°05'54
inferior conj	7212 Jun 15 12:14	29°♄06'51	1°43'43	retrograde	7213 May 19 18:47	16°♄56'09	
minimum elong	7212 Jun 15 15:14	29°♄00'29	1°42'42	evening set	7213 May 22 09:55	16°♄23'41	
min. Earth dist.	7212 Jun 18 22:10	26°♄14'50	0.58958 AU	inferior conj	7213 May 28 23:25	11°♄23'37	2°41'21
desc. node	7212 Jun 21 16:42	24°♄13'37		minimum elong	7213 May 29 02:23	11°♄16'21	2°40'36
morning rise	7212 Jun 22 21:11	23°♄31'01		min. Earth dist.	7213 Jun 01 03:05	8°♄19'43	0.61191 AU
direct	7212 Jun 29 02:50	21°♄46'06		morning rise	7213 Jun 04 16:39	5°♄25'37	
morning max el	7212 Jun 13 11:54	29°♄33'31	27°21'38	desc. node	7213 Jun 08 13:42	3°♄33'46	
	7212 Jul 13 22:35	0°☿		direct	7213 Jun 11 08:58	3°♄10'13	
	7212 Aug 04 02:05	0°♄		morning max el	7213 Jun 25 14:57	11°♄09'04	27°53'00
morning set	7212 Aug 13 11:36	18°♄20'14			7213 Jul 10 09:12	0°☿	
asc. node	7212 Aug 13 09:56	18°♄11'30			7213 Jul 27 07:55	0°♄	
	7212 Aug 18 21:05	0°♄		morning set	7213 Jul 28 15:24	2°♄40'36	
max. Earth dist.	7212 Aug 20 03:11	2°♄46'27	1.31743 AU	asc. node	7213 Jul 31 06:56	8°♄13'11	
				max. Earth dist.	7213 Aug 03 12:29	15°♄11'37	1.31961 AU
superior conj	7212 Aug 20 13:10	3°♄41'41	1°07'39				
minimum elong	7212 Aug 20 10:54	3°♄29'12	1°07'14	superior conj	7213 Aug 04 23:46	18°♄25'00	0°46'45
evening rise	7212 Aug 27 07:50	18°♄31'50		minimum elong	7213 Aug 04 21:52	18°♄14'35	0°46'20
	7212 Sep 01 22:42	0°♄			7213 Aug 10 06:20	0°♄	
desc. node	7212 Sep 17 15:48	25°♄39'00		evening rise	7213 Aug 11 18:43	3°♄16'12	
	7212 Sep 21 04:37	0°♄			7213 Aug 26 00:18	0°♄	
evening max el	7212 Sep 25 07:10	4°♄18'50	26°18'51	desc. node	7213 Sep 04 12:50	12°♄42'13	
retrograde	7212 Oct 09 05:32	11°♄24'43		evening max el	7213 Sep 06 23:16	15°♄11'54	24°58'13
evening set	7212 Oct 15 19:25	9°♄39'16		retrograde	7213 Sep 20 20:07	22°♄11'38	
min. Earth dist.	7212 Oct 19 20:27	7°♄04'43	0.59122 AU	evening set	7213 Sep 26 09:37	21°♄01'42	
inferior conj	7212 Oct 23 01:20	4°♄39'02	-4°48'19	min. Earth dist.	7213 Oct 01 10:33	18°♄18'31	0.57158 AU
minimum elong	7212 Oct 23 07:53	4°♄26'33	4°46'56	inferior conj	7213 Oct 04 07:02	16°♄25'49	-5°24'46
morning rise	7212 Oct 30 22:35	0°♄07'06		minimum elong	7213 Oct 04 09:56	16°♄21'01	5°24'33
	7212 Oct 31 10:50	30°♄♄		morning rise	7213 Oct 12 12:29	12°♄16'48	
direct	7212 Nov 02 05:37	29°♄48'56		direct	7213 Oct 15 01:10	11°♄58'30	
	7212 Nov 03 23:36	0°♄		morning max el	7213 Oct 24 04:53	16°♄18'48	19°13'14
asc. node	7212 Nov 09 09:19	2°♄57'15		asc. node	7213 Oct 27 06:20	19°♄40'46	
morning max el	7212 Nov 10 04:33	3°♄41'32	18°24'02		7213 Nov 03 00:56	0°♄	
morning set	7212 Nov 26 03:04	29°♄07'43		morning set	7213 Nov 10 03:23	13°♄30'41	
	7212 Nov 26 13:59	0°♄					
superior conj	7212 Dec 05 05:03	16°♄19'12	1°05'31	superior conj	7213 Nov 18 07:35	29°♄42'08	1°26'05
minimum elong	7212 Dec 05 08:38	16°♄35'41	1°05'08	minimum elong	7213 Nov 18 10:26	29°♄55'58	1°25'53
max. Earth dist.	7212 Dec 12 17:21	29°♄42'00	1.40579 AU		7213 Nov 18 11:16	0°♄	
	7212 Dec 12 21:32	0°♄		max. Earth dist.	7213 Nov 24 23:01	12°♄10'22	1.38431 AU
desc. node	7212 Dec 14 14:54	2°♄56'12		evening rise	7213 Nov 28 17:15	18°♄51'06	
evening rise	7212 Dec 17 03:55	7°♄11'05		desc. node	7213 Dec 01 11:55	23°♄36'47	
	7212 Dec 31 20:46	0°♄			7213 Dec 05 08:37	0°♄	
evening max el	7213 Jan 20 15:39	25°♄24'10	23°32'11		7213 Dec 26 02:56	0°♄	
	7213 Jan 26 05:04	0°♄		evening max el	7214 Jan 03 04:49	9°♄09'04	24°50'26
retrograde	7213 Jan 31 07:38	1°♄41'59		retrograde	7214 Jan 14 21:51	15°♄57'56	
	7213 Feb 04 21:14	30°♄♄		evening set	7214 Jan 20 12:25	13°♄37'53	
evening set	7213 Feb 05 09:18	29°♄35'45		asc. node	7214 Jan 23 05:35	10°♄49'30	
asc. node	7213 Feb 05 08:32	29°♄37'22		min. Earth dist.	7214 Jan 25 01:26	8°♄31'02	0.67758 AU
inferior conj	7213 Feb 10 19:28	23°♄09'19	1°43'25	inferior conj	7214 Jan 26 01:55	7°♄10'12	0°56'11
minimum elong	7213 Feb 10 17:25	23°♄16'20	1°42'45	minimum elong	7214 Jan 26 00:37	7°♄14'30	0°55'44
min. Earth dist.	7213 Feb 10 06:15	23°♄54'34	0.68226 AU	morning rise	7214 Jan 31 13:02	1°♄11'57	
morning rise	7213 Feb 16 01:29	17°♄04'08			7214 Feb 03 06:33	30°♄♄	
direct	7213 Feb 20 06:08	15°♄25'39		direct	7214 Feb 04 04:47	29°♄55'11	
morning max el	7213 Feb 28 12:45	20°♄10'38	20°53'34		7214 Feb 05 03:24	0°♄	
	7213 Mar 08 17:01	0°♄		morning max el	7214 Feb 11 13:39	4°♄02'43	19°44'24
desc. node	7213 Mar 12 14:18	5°♄21'56		greatest brilliancy	7214 Feb 24 09:34	20°♄47'39	-0.6m
	7213 Mar 29 02:48	0°♄		desc. node	7214 Feb 27 11:16	25°♄21'12	
morning set	7213 Mar 30 14:20	2°♄18'18			7214 Mar 02 13:16	0°♄	
max. Earth dist.	7213 Apr 07 15:25	15°♄07'02	1.42911 AU	morning set	7214 Mar 09 11:15	10°♄34'26	
				max. Earth dist.	7214 Mar 21 03:04	28°♄47'19	1.44421 AU
superior conj	7213 Apr 14 14:19	26°♄38'48	-2°07'58		7214 Mar 21 21:21	0°♄	
minimum elong	7213 Apr 14 17:28	26°♄52'09	2°07'54	superior conj	7214 Mar 25 21:28	6°♄25'18	-2°09'24

minimum elong	7214 Mar 25 18:39	6° $\Upsilon$ 13'55	2°09'21	desc. node	7215 Feb 14 08:15	15° $\approx$ 39'08	
evening rise	7214 Apr 08 10:56	28° $\Upsilon$ 54'48		morning set	7215 Feb 16 20:24	19° $\approx$ 34'12	
	7214 Apr 09 02:19	0° $\mathcal{B}$			7215 Feb 23 12:29	0° $\mathcal{H}$	
asc. node	7214 Apr 21 04:42	19° $\mathcal{B}$ 50'54		max. Earth dist.	7215 Mar 03 19:41	12° $\mathcal{H}$ 59'20	1.45282 AU
evening max el	7214 Apr 26 17:57	26° $\mathcal{B}$ 52'34	18°12'51				
	7214 May 01 09:55	0° $\Pi$		superior conj	7215 Mar 05 07:49	15° $\mathcal{H}$ 21'07	-1°51'03
retrograde	7214 May 03 03:20	0° $\Pi$ 15'47		minimum elong	7215 Mar 04 23:02	14° $\mathcal{H}$ 46'39	1°50'22
	7214 May 04 20:40	30° $\mathcal{R}\mathcal{B}$			7215 Mar 14 13:48	0° $\Upsilon$	
evening set	7214 May 06 01:19	29° $\mathcal{B}$ 30'56		evening rise	7215 Mar 20 12:47	9° $\Upsilon$ 34'45	
inferior conj	7214 May 12 02:20	24° $\mathcal{B}$ 12'03	3°13'42		7215 Apr 02 08:02	0° $\mathcal{B}$	
minimum elong	7214 May 12 04:07	24° $\mathcal{B}$ 07'09	3°13'24	asc. node	7215 Apr 08 01:46	7° $\mathcal{B}$ 57'13	
min. Earth dist.	7214 May 14 17:11	21° $\mathcal{B}$ 19'13	0.63326 AU	evening max el	7215 Apr 10 05:49	10° $\mathcal{B}$ 22'20	18°38'08
morning rise	7214 May 18 05:37	18° $\mathcal{B}$ 01'36		retrograde	7215 Apr 16 19:39	13° $\mathcal{B}$ 59'05	
direct	7214 May 25 00:33	15° $\mathcal{B}$ 23'57		evening set	7215 Apr 20 00:37	13° $\mathcal{B}$ 00'45	
desc. node	7214 May 26 10:43	15° $\mathcal{B}$ 30'18		inferior conj	7215 Apr 25 17:00	7° $\mathcal{B}$ 24'48	3°26'03
morning max el	7214 Jun 07 23:00	23° $\mathcal{B}$ 25'54	27°46'18	minimum elong	7215 Apr 25 17:20	7° $\mathcal{B}$ 23'47	3°25'59
	7214 Jun 13 19:28	0° $\Pi$		min. Earth dist.	7215 Apr 27 16:39	5° $\mathcal{B}$ 00'24	0.65167 AU
	7214 Jul 03 16:37	0° $\mathcal{E}$		morning rise	7215 May 01 09:23	1° $\mathcal{B}$ 08'58	
morning set	7214 Jul 12 12:28	16° $\mathcal{E}$ 38'08			7215 May 02 21:47	30° $\mathcal{R}\Upsilon$	
max. Earth dist.	7214 Jul 17 16:17	27° $\mathcal{E}$ 17'06	1.32636 AU	direct	7215 May 08 00:04	28° $\Upsilon$ 21'16	
asc. node	7214 Jul 18 03:56	28° $\mathcal{E}$ 18'58		desc. node	7215 May 13 07:43	29° $\Upsilon$ 50'37	
	7214 Jul 18 22:51	0° $\Omega$			7215 May 13 14:41	0° $\mathcal{B}$	
				morning max el	7215 May 21 09:13	6° $\mathcal{B}$ 14'35	27°05'35
superior conj	7214 Jul 20 07:18	2° $\Omega$ 54'35	0°21'49		7215 Jun 08 14:23	0° $\Pi$	
minimum elong	7214 Jul 20 06:17	2° $\Omega$ 49'03	0°21'32		7215 Jun 25 22:56	0° $\mathcal{E}$	
evening rise	7214 Jul 27 06:26	17° $\Omega$ 58'56		morning set	7215 Jun 26 00:01	0° $\mathcal{E}$ 05'12	
	7214 Aug 02 03:37	0° $\mathcal{M}$		max. Earth dist.	7215 Jun 30 10:55	8° $\mathcal{E}$ 54'41	1.33789 AU
evening max el	7214 Aug 19 10:48	25° $\mathcal{M}$ 31'03	23°21'20				
desc. node	7214 Aug 22 09:53	28° $\mathcal{M}$ 06'21		superior conj	7215 Jul 04 09:45	17° $\mathcal{E}$ 05'04	-0°06'29
	7214 Aug 25 04:46	0° $\mathcal{L}$		minimum elong	7215 Jul 04 10:05	17° $\mathcal{E}$ 06'54	0°06'29
retrograde	7214 Sep 01 22:44	2° $\mathcal{L}$ 16'39		behind sun begin	7215 Jul 04 04:55	16° $\mathcal{E}$ 39'44	
evening set	7214 Sep 06 00:41	1° $\mathcal{L}$ 40'10		behind sun end	7215 Jul 04 15:16	17° $\mathcal{E}$ 34'06	
	7214 Sep 10 02:55	30° $\mathcal{R}\mathcal{M}$		asc. node	7215 Jul 05 00:58	18° $\mathcal{E}$ 25'11	
min. Earth dist.	7214 Sep 12 20:15	28° $\mathcal{M}$ 30'13	0.55602 AU		7215 Jul 10 11:46	0° $\Omega$	
inferior conj	7214 Sep 14 16:45	27° $\mathcal{M}$ 24'49	-5°21'39	evening rise	7215 Jul 11 17:07	2° $\Omega$ 34'52	
minimum elong	7214 Sep 14 12:40	27° $\mathcal{M}$ 30'49	5°21'17		7215 Jul 27 01:33	0° $\mathcal{M}$	
morning rise	7214 Sep 23 02:55	23° $\mathcal{M}$ 32'53		evening max el	7215 Aug 01 02:24	5° $\mathcal{M}$ 51'20	21°44'44
direct	7214 Sep 26 01:04	23° $\mathcal{M}$ 12'14		desc. node	7215 Aug 09 06:57	11° $\mathcal{M}$ 19'08	
morning max el	7214 Oct 06 17:16	28° $\mathcal{M}$ 11'14	20°24'46	retrograde	7215 Aug 13 14:23	12° $\mathcal{M}$ 03'15	
	7214 Oct 08 12:18	0° $\mathcal{L}$		evening set	7215 Aug 16 06:40	11° $\mathcal{M}$ 47'05	
asc. node	7214 Oct 14 03:21	7° $\mathcal{L}$ 23'08		min. Earth dist.	7215 Aug 25 05:26	7° $\mathcal{M}$ 56'23	0.54785 AU
morning set	7214 Oct 25 09:37	28° $\mathcal{L}$ 09'16		inferior conj	7215 Aug 25 12:14	7° $\mathcal{M}$ 46'52	-4°25'06
	7214 Oct 26 07:10	0° $\mathcal{M}$		minimum elong	7215 Aug 25 03:06	7° $\mathcal{M}$ 59'39	4°22'54
				morning rise	7215 Sep 03 00:45	3° $\mathcal{M}$ 56'39	
superior conj	7214 Nov 01 23:00	13° $\mathcal{M}$ 42'03	1°37'54	direct	7215 Sep 06 11:35	3° $\mathcal{M}$ 30'35	
minimum elong	7214 Nov 02 00:31	13° $\mathcal{M}$ 49'48	1°37'53	morning max el	7215 Sep 18 17:13	9° $\mathcal{M}$ 16'27	21°56'22
max. Earth dist.	7214 Nov 07 05:49	24° $\mathcal{M}$ 08'54	1.36369 AU	asc. node	7215 Oct 01 00:22	25° $\mathcal{M}$ 50'59	
	7214 Nov 10 08:14	0° $\mathcal{J}$			7215 Oct 03 07:40	0° $\mathcal{L}$	
evening rise	7214 Nov 11 02:47	1° $\mathcal{J}$ 25'28		morning set	7215 Oct 09 19:28	12° $\mathcal{L}$ 56'50	
desc. node	7214 Nov 18 08:57	14° $\mathcal{J}$ 08'45					
	7214 Nov 28 11:13	0° $\mathcal{B}$		superior conj	7215 Oct 16 23:25	28° $\mathcal{L}$ 07'25	1°42'04
evening max el	7214 Dec 16 17:38	22° $\mathcal{B}$ 54'38	26°00'05	minimum elong	7215 Oct 16 23:34	28° $\mathcal{L}$ 08'10	1°42'07
	7214 Dec 28 05:35	0° $\approx$			7215 Oct 17 20:54	0° $\mathcal{M}$	
retrograde	7214 Dec 29 07:23	0° $\approx$ 04'08		max. Earth dist.	7215 Oct 20 19:05	6° $\mathcal{M}$ 01'42	1.34601 AU
	7214 Dec 30 08:36	30° $\mathcal{R}\mathcal{B}$		evening rise	7215 Oct 25 04:41	14° $\mathcal{M}$ 44'20	
evening set	7215 Jan 04 10:47	27° $\mathcal{B}$ 33'12			7215 Nov 02 14:22	0° $\mathcal{J}$	
min. Earth dist.	7215 Jan 08 16:55	23° $\mathcal{B}$ 00'58	0.66918 AU	desc. node	7215 Nov 05 06:00	4° $\mathcal{J}$ 26'45	
inferior conj	7215 Jan 10 04:45	21° $\mathcal{B}$ 09'11	0°01'47		7215 Nov 23 04:28	0° $\mathcal{B}$	
minimum elong	7215 Jan 10 04:42	21° $\mathcal{B}$ 09'20	0°01'50	evening max el	7215 Nov 29 06:45	6° $\mathcal{B}$ 34'34	26°53'42
transit middle	7215 Jan 10 04:42	21° $\mathcal{B}$ 09'20	0°01'50	retrograde	7215 Dec 12 11:24	13° $\mathcal{B}$ 53'05	
transit begin	7215 Jan 10 01:52	21° $\mathcal{B}$ 18'11		evening set	7215 Dec 19 02:23	11° $\mathcal{B}$ 16'12	
transit end	7215 Jan 10 07:31	21° $\mathcal{B}$ 00'31		min. Earth dist.	7215 Dec 23 02:27	7° $\mathcal{B}$ 18'32	0.65724 AU
asc. node	7215 Jan 10 02:38	21° $\mathcal{B}$ 15'48		inferior conj	7215 Dec 25 01:49	5° $\mathcal{B}$ 01'34	-0°58'59
morning rise	7215 Jan 15 23:12	15° $\mathcal{B}$ 19'50		minimum elong	7215 Dec 25 03:31	4° $\mathcal{B}$ 56'39	0°58'11
direct	7215 Jan 19 03:36	14° $\mathcal{B}$ 21'59		asc. node	7215 Dec 27 23:41	1° $\mathcal{B}$ 51'15	
morning max el	7215 Jan 25 22:08	18° $\mathcal{B}$ 04'16	18°50'24		7215 Dec 30 05:00	30° $\mathcal{R}\mathcal{J}$	
	7215 Feb 04 03:36	0° $\approx$		morning rise	7215 Dec 31 05:41	29° $\mathcal{J}$ 23'31	

direct	7216 Jan 03 00:39	28°  40'50		morning max el	7216 Dec 23 05:06	16°  10'23	17°52'11
	7216 Jan 06 22:02	0° 			7217 Jan 02 02:36	0° 	
morning max el	7216 Jan 09 12:11	2°  09'00	18°12'45	morning set	7217 Jan 09 03:19	11°  49'27	
morning set	7216 Jan 28 09:34	29°  59'34		desc. node	7217 Jan 18 02:17	26°  49'56	
	7216 Jan 28 09:40	0° 			7217 Jan 20 00:40	0° 	
desc. node	7216 Feb 01 05:15	6°  10'00					
				superior conj	7217 Jan 22 06:45	3°  39'41	-0°29'40
superior conj	7216 Feb 12 12:25	24°  08'24	-1°14'43	minimum elong	7217 Jan 22 03:21	3°  25'56	0°29'06
minimum elong	7216 Feb 12 03:51	23°  34'43	1°13'39	max. Earth dist.	7217 Jan 27 10:07	11°  53'05	1.44818 AU
max. Earth dist.	7216 Feb 14 14:53	27°  26'29	1.45417 AU	evening rise	7217 Feb 07 04:55	28°  40'47	
	7216 Feb 16 06:05	0° 			7217 Feb 08 01:34	0° 	
evening rise	7216 Feb 28 16:04	19°  21'50			7217 Feb 28 10:28	0° 	
	7216 Mar 06 12:08	0° 		evening max el	7217 Mar 06 17:23	7°  33'42	20°18'19
greatest brilliancy	7216 Mar 11 12:45	7°  43'16	-0.7m	asc. node	7217 Mar 11 19:54	11°  29'36	
evening max el	7216 Mar 23 14:08	23°  57'01	19°20'37	retrograde	7217 Mar 14 14:35	12°  09'32	
asc. node	7216 Mar 24 22:50	25°  14'39		evening set	7217 Mar 18 11:56	10°  42'01	
retrograde	7216 Mar 30 16:16	27°  58'39		inferior conj	7217 Mar 23 20:10	4°  36'55	3°07'28
evening set	7216 Apr 03 04:54	26°  46'02		minimum elong	7217 Mar 23 18:22	4°  43'00	3°07'10
inferior conj	7216 Apr 08 15:53	20°  54'34	3°22'55	min. Earth dist.	7217 Mar 24 14:18	3°  35'10	0.67607 AU
minimum elong	7216 Apr 08 14:58	20°  57'32	3°22'49		7217 Mar 27 10:08	30° 	
min. Earth dist.	7216 Apr 10 00:16	19°  09'15	0.66606 AU	morning rise	7217 Mar 29 00:35	28°  21'27	
morning rise	7216 Apr 14 00:41	14°  37'45		direct	7217 Apr 03 17:20	25°  48'51	
direct	7216 Apr 20 06:03	11°  52'30			7217 Apr 12 07:54	0° 	
desc. node	7216 Apr 29 04:43	16°  02'19		morning max el	7217 Apr 15 04:03	2°  39'51	24°35'29
morning max el	7216 May 02 19:08	19°  22'09	25°58'45	desc. node	7217 Apr 16 01:43	3°  35'47	
	7216 May 11 20:02	0° 			7217 May 05 23:15	0° 	
	7216 May 31 16:16	0° 		morning set	7217 May 21 02:05	24°  41'20	
morning set	7216 Jun 07 22:13	12°  50'54			7217 May 24 01:35	0° 	
max. Earth dist.	7216 Jun 11 18:23	20°  05'34	1.35411 AU	max. Earth dist.	7217 May 24 17:00	1°  09'55	1.37428 AU
	7216 Jun 16 18:47	0° 					
				superior conj	7217 May 31 12:29	13°  58'38	-1°08'08
superior conj	7216 Jun 17 04:33	0°  49'24	-0°37'01	minimum elong	7217 May 31 16:32	14°  18'17	1°07'32
minimum elong	7216 Jun 17 06:41	1°  00'13	0°36'40	asc. node	7217 Jun 07 19:04	28°  12'29	
asc. node	7216 Jun 20 22:01	8°  27'54			7217 Jun 08 14:35	0° 	
evening rise	7216 Jun 25 00:42	16°  57'52		evening rise	7217 Jun 09 02:44	1°  00'34	
	7216 Jul 01 15:39	0° 		evening max el	7217 Jun 25 20:58	28°  18'31	19°17'10
evening max el	7216 Jul 13 05:16	16°  43'30	20°21'20		7217 Jun 27 18:51	0° 	
retrograde	7216 Jul 24 02:55	22°  05'36		retrograde	7217 Jul 05 01:43	2°  50'19	
evening set	7216 Jul 26 02:07	21°  55'53		evening set	7217 Jul 06 23:29	2°  39'27	
desc. node	7216 Jul 26 03:59	21°  55'06		desc. node	7217 Jul 13 01:01	0°  50'15	
inferior conj	7216 Aug 04 06:07	17°  58'25	-2°42'39		7217 Jul 13 04:28	30° 	
minimum elong	7216 Aug 03 22:43	18°  09'13	2°40'06	inferior conj	7217 Jul 15 12:26	28°  30'14	-0°45'04
min. Earth dist.	7216 Aug 05 16:05	17°  08'50	0.54909 AU	minimum elong	7217 Jul 15 10:27	28°  33'31	0°44'23
morning rise	7216 Aug 12 18:21	13°  50'03		min. Earth dist.	7217 Jul 18 05:28	26°  43'12	0.55962 AU
direct	7216 Aug 16 21:48	13°  51'00		morning rise	7217 Jul 23 18:35	23°  48'11	
morning max el	7216 Aug 30 08:16	19°  44'56	23°40'22	direct	7217 Jul 28 18:07	22°  51'30	
	7216 Sep 07 23:02	0° 			7217 Aug 11 20:40	0° 	
asc. node	7216 Sep 16 21:23	14°  53'16		morning max el	7217 Aug 11 21:09	0°  50'10	25°22'51
morning set	7216 Sep 23 07:03	27°  48'14			7217 Sep 01 13:07	0° 	
	7216 Sep 24 07:47	0° 		asc. node	7217 Sep 03 18:24	4°  20'24	
				morning set	7217 Sep 07 18:37	12°  37'25	
superior conj	7216 Sep 30 05:54	12°  49'19	1°39'35				
minimum elong	7216 Sep 30 04:52	12°  43'46	1°39'33	superior conj	7217 Sep 14 15:57	27°  39'19	1°31'15
max. Earth dist.	7216 Oct 02 17:07	18°  06'52	1.33235 AU	minimum elong	7217 Sep 14 14:07	27°  39'11	1°31'04
evening rise	7216 Oct 07 19:03	28°  37'26			7217 Sep 15 17:35	0° 	
	7216 Oct 08 11:37	0° 		max. Earth dist.	7217 Sep 15 22:32	0°  27'06	1.32307 AU
desc. node	7216 Oct 22 03:05	24°  18'24'20		evening rise	7217 Sep 21 18:23	12°  54'05	
	7216 Oct 25 18:02	0° 			7217 Sep 30 14:49	0° 	
evening max el	7216 Nov 10 19:15	19°  58'26	27°24'01	desc. node	7217 Oct 09 00:08	13°  51'53	
retrograde	7216 Nov 24 09:02	27°  16'59			7217 Oct 21 08:52	0° 	
evening set	7216 Dec 01 08:49	24°  41'19		evening max el	7217 Oct 24 04:52	2°  51'43	27°24'52
min. Earth dist.	7216 Dec 05 03:43	21°  16'49	0.64196 AU	retrograde	7217 Nov 06 23:39	10°  57'00	
inferior conj	7216 Dec 07 14:41	18°  41'56	-2°04'35	evening set	7217 Nov 14 02:54	7°  40'49	
minimum elong	7216 Dec 07 18:29	18°  31'56	2°02'59	min. Earth dist.	7217 Nov 17 18:47	4°  44'54	0.62366 AU
asc. node	7216 Dec 13 20:43	13°  51'28'12		inferior conj	7217 Nov 20 16:24	2°  50'00	-3°12'15
morning rise	7216 Dec 14 05:41	13°  51'18'15		minimum elong	7217 Nov 20 22:15	1°  48'15	3°10'08
direct	7216 Dec 16 17:30	12°  51'46'51			7217 Nov 22 22:17	30°	

morning rise	7217 Nov 27 19:35	26° $\mathbb{M}$ 56'14		morning rise	7218 Nov 10 18:46	10° $\mathbb{M}$ 08'27	
direct	7217 Nov 30 02:50	26° $\mathbb{M}$ 32'30		direct	7218 Nov 13 00:40	9° $\mathbb{M}$ 49'10	
asc. node	7217 Nov 30 17:44	26° $\mathbb{M}$ 34'16		asc. node	7218 Nov 17 14:46	11° $\mathbb{M}$ 13'47	
	7217 Dec 06 21:42	0° $\mathbb{A}$		morning max el	7218 Nov 20 10:58	13° $\mathbb{M}$ 29'54	18°05'37
morning max el	7217 Dec 06 21:48	0° $\mathbb{A}$ 00'14	17°49'27		7218 Dec 01 14:56	0° $\mathbb{A}$	
morning set	7217 Dec 22 19:32	24° $\mathbb{A}$ 43'33		morning set	7218 Dec 06 03:52	8° $\mathbb{A}$ 22'35	
	7217 Dec 25 18:43	0° $\mathbb{B}$					
superior conj	7218 Jan 03 01:54	14° $\mathbb{B}$ 23'53	0°13'43	superior conj	7218 Dec 15 22:13	26° $\mathbb{A}$ 20'22	0°49'20
minimum elong	7218 Jan 03 03:12	14° $\mathbb{B}$ 29'22	0°13'35	minimum elong	7218 Dec 16 01:36	26° $\mathbb{A}$ 35'30	0°48'56
behind sun begin	7218 Jan 02 22:26	14° $\mathbb{B}$ 09'14			7218 Dec 17 23:51	0° $\mathbb{B}$	
behind sun end	7218 Jan 03 07:57	14° $\mathbb{B}$ 49'29		desc. node	7218 Dec 22 20:18	8° $\mathbb{B}$ 20'53	
desc. node	7218 Jan 04 23:19	17° $\mathbb{B}$ 34'48		max. Earth dist.	7218 Dec 23 13:51	9° $\mathbb{B}$ 34'37	1.41753 AU
max. Earth dist.	7218 Jan 10 02:35	26° $\mathbb{B}$ 01'39	1.43545 AU	evening rise	7218 Dec 28 20:50	18° $\mathbb{B}$ 15'40	
	7218 Jan 12 13:53	0° $\mathbb{B}$			7219 Jan 05 08:52	0° $\mathbb{B}$	
evening rise	7218 Jan 17 17:49	8° $\mathbb{B}$ 07'47			7219 Jan 26 22:38	0° $\mathbb{H}$	
	7218 Feb 01 07:32	0° $\mathbb{H}$		evening max el	7219 Jan 31 07:57	4° $\mathbb{H}$ 51'19	22°46'04
evening max el	7218 Feb 17 15:05	21° $\mathbb{H}$ 11'39	21°28'14	retrograde	7219 Feb 10 08:38	10° $\mathbb{H}$ 48'30	
retrograde	7218 Feb 26 12:36	26° $\mathbb{H}$ 27'43		asc. node	7219 Feb 13 13:57	9° $\mathbb{H}$ 55'45	
asc. node	7218 Feb 26 16:55	26° $\mathbb{H}$ 27'33		evening set	7219 Feb 15 03:12	8° $\mathbb{H}$ 50'41	
evening set	7218 Mar 02 19:55	24° $\mathbb{H}$ 44'59		inferior conj	7219 Feb 20 11:59	2° $\mathbb{H}$ 26'39	2°07'07
inferior conj	7218 Mar 08 03:32	18° $\mathbb{H}$ 28'45	2°41'47	minimum elong	7219 Feb 20 09:44	2° $\mathbb{H}$ 34'27	2°06'27
minimum elong	7218 Mar 08 01:17	18° $\mathbb{H}$ 36'33	2°41'15	min. Earth dist.	7219 Feb 20 05:18	2° $\mathbb{H}$ 49'51	0.68314 AU
min. Earth dist.	7218 Mar 08 08:43	18° $\mathbb{H}$ 10'42	0.68168 AU		7219 Feb 22 07:09	30° $\mathbb{R}$ $\mathbb{B}$	
morning rise	7218 Mar 13 06:30	12° $\mathbb{H}$ 16'09		morning rise	7219 Feb 25 16:10	26° $\mathbb{B}$ 18'11	
direct	7218 Mar 18 09:09	10° $\mathbb{H}$ 02'41		direct	7219 Mar 02 04:35	24° $\mathbb{B}$ 26'52	
morning max el	7218 Mar 28 13:38	16° $\mathbb{H}$ 05'09	23°05'56	morning max el	7219 Mar 11 02:59	29° $\mathbb{B}$ 38'56	21°39'13
desc. node	7218 Apr 02 22:43	22° $\mathbb{H}$ 08'32			7219 Mar 11 11:18	0° $\mathbb{H}$	
	7218 Apr 08 23:50	0° $\mathbb{Y}$		desc. node	7219 Mar 20 19:42	11° $\mathbb{H}$ 23'38	
	7218 Apr 28 23:37	0° $\mathbb{B}$			7219 Apr 02 17:27	0° $\mathbb{Y}$	
morning set	7218 May 02 05:59	5° $\mathbb{B}$ 22'27		morning set	7219 Apr 12 05:56	14° $\mathbb{Y}$ 45'18	
max. Earth dist.	7218 May 06 13:07	12° $\mathbb{B}$ 40'04	1.39649 AU	max. Earth dist.	7219 Apr 18 12:53	24° $\mathbb{Y}$ 57'57	1.41807 AU
					7219 Apr 21 13:07	0° $\mathbb{B}$	
superior conj	7218 May 14 05:34	26° $\mathbb{B}$ 23'12	-1°37'06	superior conj	7219 Apr 26 03:02	7° $\mathbb{B}$ 51'47	-1°59'51
minimum elong	7218 May 14 10:59	26° $\mathbb{B}$ 48'12	1°36'30	minimum elong	7219 Apr 26 07:59	8° $\mathbb{B}$ 13'21	1°59'33
	7218 May 16 04:19	0° $\mathbb{H}$		evening rise	7219 May 07 01:24	27° $\mathbb{B}$ 31'52	
evening rise	7218 May 23 20:14	14° $\mathbb{H}$ 35'13			7219 May 08 09:45	0° $\mathbb{H}$	
asc. node	7218 May 25 16:05	18° $\mathbb{H}$ 04'44		asc. node	7219 May 12 13:06	7° $\mathbb{H}$ 29'03	
	7218 Jun 01 05:40	0° $\mathbb{B}$		evening max el	7219 May 23 08:35	23° $\mathbb{H}$ 21'39	18°10'28
evening max el	7218 Jun 08 23:18	10° $\mathbb{B}$ 34'13	18°33'42	retrograde	7219 May 30 06:10	26° $\mathbb{H}$ 50'43	
retrograde	7218 Jun 16 18:49	14° $\mathbb{B}$ 26'57		evening set	7219 Jun 01 17:02	26° $\mathbb{H}$ 24'52	
evening set	7218 Jun 18 22:17	14° $\mathbb{B}$ 10'21		inferior conj	7219 Jun 08 15:35	21° $\mathbb{H}$ 36'34	2°11'34
inferior conj	7218 Jun 26 15:23	9° $\mathbb{B}$ 42'20	0°57'19	minimum elong	7219 Jun 08 18:47	21° $\mathbb{H}$ 29'20	2°10'36
minimum elong	7218 Jun 26 17:23	9° $\mathbb{B}$ 38'26	0°56'33	min. Earth dist.	7219 Jun 12 00:04	18° $\mathbb{H}$ 36'10	0.59900 AU
desc. node	7218 Jun 29 22:02	7° $\mathbb{B}$ 10'59		morning rise	7219 Jun 15 17:43	15° $\mathbb{H}$ 49'39	
min. Earth dist.	7218 Jun 29 23:29	7° $\mathbb{B}$ 08'18	0.57732 AU	desc. node	7219 Jun 16 19:03	15° $\mathbb{H}$ 14'13	
morning rise	7218 Jul 04 09:04	4° $\mathbb{B}$ 23'39		direct	7219 Jun 22 04:50	13° $\mathbb{H}$ 50'55	
direct	7218 Jul 10 04:46	2° $\mathbb{B}$ 57'54		morning max el	7219 Jul 06 13:25	21° $\mathbb{H}$ 45'13	27°39'40
morning max el	7218 Jul 24 14:05	10° $\mathbb{B}$ 35'02	26°47'02		7219 Jul 13 18:34	0° $\mathbb{B}$	
	7218 Aug 08 12:52	0° $\mathbb{Q}$			7219 Aug 01 12:58	0° $\mathbb{Q}$	
asc. node	7218 Aug 21 15:25	24° $\mathbb{Q}$ 05'29		morning set	7219 Aug 07 11:06	11° $\mathbb{Q}$ 49'24	
morning set	7218 Aug 23 04:32	27° $\mathbb{Q}$ 19'43		asc. node	7219 Aug 08 12:26	14° $\mathbb{Q}$ 02'17	
	7218 Aug 24 10:37	0° $\mathbb{P}$		max. Earth dist.	7219 Aug 13 18:33	25° $\mathbb{Q}$ 25'42	1.31773 AU
superior conj	7218 Aug 30 03:38	12° $\mathbb{P}$ 31'19	1°17'40	superior conj	7219 Aug 14 15:07	27° $\mathbb{Q}$ 19'16	0°59'18
minimum elong	7218 Aug 30 01:23	12° $\mathbb{P}$ 18'55	1°17'19	minimum elong	7219 Aug 14 12:58	27° $\mathbb{Q}$ 07'19	0°58'53
max. Earth dist.	7218 Aug 30 08:15	12° $\mathbb{P}$ 56'55	1.31820 AU		7219 Aug 15 20:10	0° $\mathbb{P}$	
evening rise	7218 Sep 05 23:56	27° $\mathbb{P}$ 26'43		evening rise	7219 Aug 21 09:26	12° $\mathbb{P}$ 08'13	
	7218 Sep 07 05:12	0° $\mathbb{Q}$			7219 Aug 30 09:13	0° $\mathbb{Q}$	
	7218 Sep 24 01:16	0° $\mathbb{M}$		desc. node	7219 Sep 12 18:11	20° $\mathbb{Q}$ 24'39	
desc. node	7218 Sep 25 21:09	2° $\mathbb{M}$ 37'31		evening max el	7219 Sep 18 05:17	26° $\mathbb{Q}$ 22'23	25°47'32
evening max el	7218 Oct 06 08:51	15° $\mathbb{M}$ 01'48	26°52'23		7219 Sep 22 14:50	0° $\mathbb{M}$	
retrograde	7218 Oct 20 06:25	22° $\mathbb{M}$ 11'19		retrograde	7219 Oct 02 03:59	3° $\mathbb{M}$ 26'56	
evening set	7218 Oct 27 04:33	20° $\mathbb{M}$ 07'53		evening set	7219 Oct 08 08:58	1° $\mathbb{M}$ 56'04	
min. Earth dist.	7218 Oct 30 23:01	17° $\mathbb{M}$ 30'09	0.60325 AU		7219 Oct 11 18:04	30° $\mathbb{R}$ $\mathbb{Q}$	
inferior conj	7218 Nov 03 03:34	14° $\mathbb{M}$ 53'02	-4°16'30	min. Earth dist.	7219 Oct 12 17:47	29° $\mathbb{Q}$ 20'04	0.58250 AU
minimum elong	7218 Nov 03 10:31	14° $\mathbb{M}$ 38'41	4°14'36	inferior conj	7219 Oct 15 20:49	27° $\mathbb{Q}$ 06'06	-5°07'27



minimum elong	7219 Oct 16 02:20	26° $\Omega$ 56'13	5°06'36	minimum elong	7220 Sep 25 17:59	8° $\Omega$ 32'28	5°29'27
morning rise	7219 Oct 23 22:02	22° $\Omega$ 44'19		morning rise	7220 Oct 04 01:36	4° $\Omega$ 31'48	
direct	7219 Oct 26 06:43	22° $\Omega$ 26'33		direct	7220 Oct 06 17:49	4° $\Omega$ 12'47	
morning max el	7219 Nov 03 17:05	26° $\Omega$ 29'55	18°42'16	morning max el	7220 Oct 16 12:33	8° $\Omega$ 48'52	19°40'58
asc. node	7219 Nov 04 11:48	27° $\Omega$ 16'49		asc. node	7220 Oct 21 08:50	14° $\Omega$ 27'14	
	7219 Nov 06 19:56	0° $\mathbb{M}$			7220 Oct 30 13:10	0° $\mathbb{M}$	
morning set	7219 Nov 19 23:29	22° $\mathbb{M}$ 33'06		morning set	7220 Nov 03 02:41	7° $\mathbb{M}$ 03'52	
	7219 Nov 23 19:08	0° $\mathbb{X}$					
superior conj	7219 Nov 28 15:16	9° $\mathbb{X}$ 16'31	1°15'21	superior conj	7220 Nov 10 23:50	22° $\mathbb{M}$ 56'43	1°32'05
minimum elong	7219 Nov 28 18:40	9° $\mathbb{X}$ 32'30	1°15'03	minimum elong	7220 Nov 11 02:10	23° $\mathbb{M}$ 08'13	1°31'59
max. Earth dist.	7219 Dec 05 20:26	22° $\mathbb{X}$ 24'51	1.39667 AU	max. Earth dist.	7220 Nov 14 14:54	0° $\mathbb{X}$	
evening rise	7219 Dec 09 21:28	29° $\mathbb{X}$ 22'31		evening rise	7220 Nov 17 02:02	4° $\mathbb{X}$ 38'37	1.37532 AU
desc. node	7219 Dec 09 17:19	29° $\mathbb{X}$ 04'59		desc. node	7220 Nov 20 19:53	11° $\mathbb{X}$ 27'20	
	7219 Dec 10 06:22	0° $\mathbb{Z}$			7220 Nov 25 14:20	19° $\mathbb{X}$ 42'39	
	7219 Dec 29 19:33	0° $\approx$			7220 Dec 01 22:27	0° $\mathbb{Z}$	
evening max el	7220 Jan 13 22:00	18° $\approx$ 35'06	24°06'05	evening max el	7220 Dec 24 03:55	0° $\approx$	
retrograde	7220 Jan 25 01:22	25° $\approx$ 07'52		retrograde	7220 Dec 26 11:07	2° $\approx$ 21'45	25°21'35
evening set	7220 Jan 30 08:19	22° $\approx$ 55'42		evening set	7221 Jan 07 13:37	9° $\approx$ 20'17	
asc. node	7220 Jan 31 11:00	21° $\approx$ 53'19		asc. node	7221 Jan 13 09:37	6° $\approx$ 55'28	
min. Earth dist.	7220 Feb 04 01:46	17° $\approx$ 28'48	0.68070 AU	min. Earth dist.	7221 Jan 17 08:04	2° $\approx$ 40'11	
inferior conj	7220 Feb 04 19:45	16° $\approx$ 27'58	1°24'20	inferior conj	7221 Jan 17 19:44	2° $\approx$ 03'06	0.67450 AU
minimum elong	7220 Feb 04 17:57	16° $\approx$ 34'03	1°23'43	minimum elong	7221 Jan 19 00:55	0° $\approx$ 28'48	0°33'59
morning rise	7220 Feb 10 03:37	10° $\approx$ 25'15			7221 Jan 19 00:05	0° $\approx$ 31'30	0°33'42
direct	7220 Feb 14 02:35	8° $\approx$ 56'15		morning rise	7221 Jan 19 09:51	30° $\mathbb{R}$ $\mathbb{Z}$	
morning max el	7220 Feb 21 23:10	13° $\approx$ 24'16	20°22'18	direct	7221 Jan 24 14:52	24° $\mathbb{Z}$ 33'50	
	7220 Mar 05 21:26	0° $\mathbb{H}$		morning max el	7221 Jan 28 01:40	23° $\mathbb{Z}$ 25'20	
desc. node	7220 Mar 06 16:42	1° $\mathbb{H}$ 09'39			7221 Feb 04 03:22	27° $\mathbb{Z}$ 20'31	19°19'22
morning set	7220 Mar 21 07:13	23° $\mathbb{H}$ 09'04		greatest brilliancy	7221 Feb 06 13:54	0° $\approx$	
	7220 Mar 25 16:35	0° $\mathbb{Y}$		desc. node	7221 Feb 17 06:43	14° $\approx$ 48'04	-0.7m
max. Earth dist.	7220 Mar 30 19:55	8° $\mathbb{Y}$ 10'02	1.43626 AU		7221 Feb 21 13:41	21° $\approx$ 17'43	
					7221 Feb 27 05:41	0° $\mathbb{H}$	
superior conj	7220 Apr 06 00:43	18° $\mathbb{Y}$ 16'31	-2°10'48	morning set	7221 Feb 28 06:25	1° $\mathbb{H}$ 35'26	
minimum elong	7220 Apr 06 01:42	18° $\mathbb{Y}$ 20'39	2°10'49	max. Earth dist.	7221 Mar 13 10:08	22° $\mathbb{H}$ 06'25	1.44881 AU
	7220 Apr 12 23:41	0° $\mathbb{B}$					
evening rise	7220 Apr 18 13:52	9° $\mathbb{B}$ 41'03		superior conj	7221 Mar 16 21:55	27° $\mathbb{H}$ 38'20	-2°04'07
asc. node	7220 Apr 28 10:07	26° $\mathbb{B}$ 29'37		minimum elong	7221 Mar 16 16:08	27° $\mathbb{H}$ 15'22	2°03'51
	7220 Apr 30 16:44	0° $\mathbb{I}$			7221 Mar 18 09:26	0° $\mathbb{Y}$	
evening max el	7220 May 05 21:20	6° $\mathbb{I}$ 32'06	18°06'36	evening rise	7221 Mar 31 05:08	20° $\mathbb{Y}$ 54'25	
retrograde	7220 May 12 08:08	9° $\mathbb{I}$ 53'01			7221 Apr 05 16:34	0° $\mathbb{B}$	
evening set	7220 May 15 02:14	9° $\mathbb{I}$ 15'26		asc. node	7221 Apr 15 07:10	14° $\mathbb{B}$ 58'35	
inferior conj	7220 May 21 09:57	4° $\mathbb{I}$ 07'28	2°57'49	evening max el	7221 Apr 19 10:21	19° $\mathbb{B}$ 57'05	18°21'28
minimum elong	7220 May 21 12:29	4° $\mathbb{I}$ 00'54	2°57'16	retrograde	7221 Apr 25 20:24	23° $\mathbb{B}$ 24'09	
min. Earth dist.	7220 May 24 08:50	1° $\mathbb{I}$ 05'29	0.62132 AU	evening set	7221 Apr 28 21:26	22° $\mathbb{B}$ 33'30	
	7220 May 25 12:17	30° $\mathbb{R}$ $\mathbb{B}$		inferior conj	7221 May 04 18:21	17° $\mathbb{B}$ 07'10	3°21'03
morning rise	7220 May 27 20:56	28° $\mathbb{B}$ 03'14		minimum elong	7221 May 04 19:30	17° $\mathbb{B}$ 03'49	3°20'53
desc. node	7220 Jun 02 16:05	25° $\mathbb{B}$ 39'33		min. Earth dist.	7221 May 07 02:48	14° $\mathbb{B}$ 24'56	0.64159 AU
direct	7220 Jun 03 15:31	25° $\mathbb{B}$ 36'37		morning rise	7221 May 10 16:37	10° $\mathbb{B}$ 54'03	
	7220 Jun 13 17:46	0° $\mathbb{I}$		direct	7221 May 17 10:37	8° $\mathbb{B}$ 10'39	
morning max el	7220 Jun 17 18:39	3° $\mathbb{I}$ 38'09	27°54'33	desc. node	7221 May 20 13:06	8° $\mathbb{B}$ 41'01	
	7220 Jul 07 08:37	0° $\mathbb{E}$		morning max el	7221 May 31 03:48	16° $\mathbb{B}$ 09'39	27°32'44
morning set	7220 Jul 21 12:19	26° $\mathbb{E}$ 00'31			7221 Jun 11 13:16	0° $\mathbb{I}$	
	7220 Jul 23 10:46	0° $\mathbb{Q}$			7221 Jun 30 02:49	0° $\mathbb{E}$	
asc. node	7220 Jul 25 09:26	4° $\mathbb{Q}$ 06'01		morning set	7221 Jul 05 05:45	9° $\mathbb{E}$ 46'22	
max. Earth dist.	7220 Jul 27 01:45	7° $\mathbb{Q}$ 42'24	1.32186 AU	max. Earth dist.	7221 Jul 10 02:08	19° $\mathbb{E}$ 37'23	1.33070 AU
				asc. node	7221 Jul 12 06:27	24° $\mathbb{E}$ 12'45	
superior conj	7220 Jul 29 00:40	11° $\mathbb{Q}$ 57'23	0°36'37				
minimum elong	7220 Jul 28 23:05	11° $\mathbb{Q}$ 48'42	0°36'15	superior conj	7221 Jul 13 06:22	26° $\mathbb{E}$ 20'10	0°10'12
evening rise	7220 Aug 04 20:53	26° $\mathbb{Q}$ 52'21		minimum elong	7221 Jul 13 05:51	26° $\mathbb{E}$ 17'28	0°10'01
	7220 Aug 06 08:18	0° $\mathbb{N}$		behind sun begin	7221 Jul 13 01:36	25° $\mathbb{E}$ 54'44	
	7220 Aug 23 15:44	0° $\mathbb{L}$		behind sun end	7221 Jul 13 10:07	26° $\mathbb{E}$ 40'14	
desc. node	7220 Aug 29 15:14	6° $\mathbb{L}$ 49'34			7221 Jul 14 23:19	0° $\mathbb{Q}$	
evening max el	7220 Aug 29 18:53	6° $\mathbb{L}$ 58'24	24°18'11	evening rise	7221 Jul 20 08:27	11° $\mathbb{Q}$ 33'36	
retrograde	7220 Sep 12 13:37	13° $\mathbb{L}$ 53'34			7221 Jul 29 18:10	0° $\mathbb{N}$	
evening set	7220 Sep 17 12:34	12° $\mathbb{L}$ 59'13		evening max el	7221 Aug 11 07:11	17° $\mathbb{N}$ 14'09	22°39'19
min. Earth dist.	7220 Sep 23 05:48	10° $\mathbb{L}$ 06'26	0.56418 AU	desc. node	7221 Aug 16 12:17	21° $\mathbb{N}$ 22'25	
inferior conj	7220 Sep 25 17:50	8° $\mathbb{L}$ 32'43	-5°29'28	retrograde	7221 Aug 24 10:32	23° $\mathbb{N}$ 47'19	
				evening set	7221 Aug 27 21:09	23° $\mathbb{N}$ 21'20	

min. Earth dist.	7221 Sep 04 14:42	19° $\mathbb{M}$ 56'00	0.55151 AU	evening set	7222 Aug 07 06:22	3° $\mathbb{M}$ 24'17	
inferior conj	7221 Sep 05 20:22	19° $\mathbb{M}$ 13'49	-5°04'25		7222 Aug 15 13:29	30° $\mathbb{R}$ 0	
minimum elong	7221 Sep 05 13:28	19° $\mathbb{M}$ 23'39	5°03'21	inferior conj	7222 Aug 16 13:14	29° $\mathbb{Q}$ 26'38	-3°45'42
morning rise	7221 Sep 14 07:44	15° $\mathbb{M}$ 25'04		minimum elong	7222 Aug 16 04:01	29° $\mathbb{Q}$ 39'37	3°43'01
direct	7221 Sep 17 11:13	15° $\mathbb{M}$ 02'23		min. Earth dist.	7222 Aug 16 24:00	29° $\mathbb{Q}$ 11'28	0.54719 AU
morning max el	7221 Sep 28 19:22	20° $\mathbb{M}$ 20'22	21°01'36	morning rise	7222 Aug 25 02:11	25° $\mathbb{Q}$ 31'30	
	7221 Oct 06 15:35	0° $\mathbb{A}$		direct	7222 Aug 28 19:28	25° $\mathbb{Q}$ 01'49	
asc. node	7221 Oct 08 05:52	2° $\mathbb{A}$ 30'30			7222 Sep 09 08:36	0° $\mathbb{M}$	
morning set	7221 Oct 18 10:45	21° $\mathbb{A}$ 47'17		morning max el	7222 Sep 10 14:52	1° $\mathbb{M}$ 07'18	22°39'56
	7221 Oct 22 09:07	0° $\mathbb{M}$		asc. node	7222 Sep 25 02:53	21° $\mathbb{M}$ 13'44	
					7222 Sep 29 16:40	0° $\mathbb{A}$	
superior conj	7221 Oct 25 19:31	7° $\mathbb{M}$ 08'35	1°40'32	morning set	7222 Oct 02 21:32	6° $\mathbb{A}$ 36'48	
minimum elong	7221 Oct 25 20:26	7° $\mathbb{M}$ 13'22	1°40'34				
max. Earth dist.	7221 Oct 30 11:29	16° $\mathbb{M}$ 33'34	1.35577 AU	superior conj	7222 Oct 09 22:49	21° $\mathbb{A}$ 41'36	1°41'47
evening rise	7221 Nov 03 12:55	24° $\mathbb{M}$ 21'50		minimum elong	7222 Oct 09 22:26	21° $\mathbb{A}$ 39'32	1°41'48
	7221 Nov 06 14:33	0° $\mathbb{A}$		max. Earth dist.	7222 Oct 13 04:24	28° $\mathbb{A}$ 29'43	1.33962 AU
desc. node	7221 Nov 12 11:22	10° $\mathbb{A}$ 09'22			7222 Oct 13 21:53	0° $\mathbb{M}$	
	7221 Nov 25 12:36	0° $\mathbb{B}$		evening rise	7222 Oct 17 20:30	7° $\mathbb{M}$ 55'39	
evening max el	7221 Dec 09 00:12	16° $\mathbb{B}$ 06'19	26°25'14	desc. node	7222 Oct 30 08:26	0° $\mathbb{A}$ 19'22	
retrograde	7221 Dec 21 20:39	23° $\mathbb{B}$ 20'03			7222 Oct 30 03:41	0° $\mathbb{A}$	
evening set	7221 Dec 28 05:21	20° $\mathbb{B}$ 45'54		evening max el	7222 Nov 21 13:03	29° $\mathbb{A}$ 40'04	27°09'48
min. Earth dist.	7222 Jan 01 08:53	16° $\mathbb{B}$ 28'33	0.66462 AU		7222 Nov 21 21:28	0° $\mathbb{B}$	
inferior conj	7222 Jan 03 01:34	14° $\mathbb{B}$ 25'28	-0°23'16	retrograde	7222 Dec 04 22:03	6° $\mathbb{B}$ 59'41	
minimum elong	7222 Jan 03 02:12	14° $\mathbb{B}$ 23'32	0°22'55	evening set	7222 Dec 11 17:25	4° $\mathbb{B}$ 21'58	
asc. node	7222 Jan 04 05:09	13° $\mathbb{B}$ 03'02		min. Earth dist.	7222 Dec 15 14:59	0° $\mathbb{B}$ 39'05	0.65113 AU
morning rise	7222 Jan 08 23:48	8° $\mathbb{B}$ 40'38			7222 Dec 16 05:14	30° $\mathbb{R}$ 8	
direct	7222 Jan 12 00:03	7° $\mathbb{B}$ 49'35		inferior conj	7222 Dec 17 19:28	28° $\mathbb{A}$ 13'13	-1°26'21
morning max el	7222 Jan 18 14:31	11° $\mathbb{B}$ 24'06	18°32'18	minimum elong	7222 Dec 17 22:01	28° $\mathbb{A}$ 06'06	1°25'12
	7222 Feb 01 01:03	0° $\mathbb{A}$		asc. node	7222 Dec 22 02:12	23° $\mathbb{A}$ 59'13	
morning set	7222 Feb 08 02:38	11° $\mathbb{A}$ 09'52		morning rise	7222 Dec 24 03:55	22° $\mathbb{A}$ 41'14	
desc. node	7222 Feb 08 10:41	11° $\mathbb{A}$ 41'45		direct	7222 Dec 26 19:33	22° $\mathbb{A}$ 03'53	
	7222 Feb 20 01:28	0° $\mathbb{H}$		morning max el	7223 Jan 02 06:14	25° $\mathbb{A}$ 28'46	18°01'58
					7223 Jan 06 02:05	0° $\mathbb{B}$	
superior conj	7222 Feb 24 03:20	6° $\mathbb{H}$ 23'22	-1°37'24	morning set	7223 Jan 20 04:32	22° $\mathbb{B}$ 13'22	
minimum elong	7222 Feb 23 17:44	5° $\mathbb{H}$ 45'48	1°36'26		7223 Jan 24 22:03	0° $\mathbb{A}$	
max. Earth dist.	7222 Feb 24 04:45	6° $\mathbb{H}$ 28'58	1.45438 AU	desc. node	7223 Jan 26 07:41	2° $\mathbb{A}$ 17'09	
	7222 Mar 11 03:14	0° $\mathbb{Y}$					
evening rise	7222 Mar 11 20:58	1° $\mathbb{Y}$ 10'25		superior conj	7223 Feb 03 11:47	15° $\mathbb{A}$ 24'36	-0°56'00
greatest brilliancy	7222 Mar 20 19:24	15° $\mathbb{Y}$ 19'59	-0.8m	minimum elong	7223 Feb 03 05:09	14° $\mathbb{A}$ 58'18	0°55'04
	7222 Mar 30 20:02	0° $\mathbb{B}$		max. Earth dist.	7223 Feb 07 00:28	20° $\mathbb{A}$ 58'50	1.45246 AU
asc. node	7222 Apr 02 04:15	2° $\mathbb{B}$ 45'31			7223 Feb 12 18:57	0° $\mathbb{H}$	
evening max el	7222 Apr 02 20:55	3° $\mathbb{B}$ 29'10	18°54'11	evening rise	7223 Feb 19 16:46	10° $\mathbb{H}$ 42'19	
retrograde	7222 Apr 09 15:00	7° $\mathbb{B}$ 15'15			7223 Mar 04 07:55	0° $\mathbb{Y}$	
evening set	7222 Apr 12 23:11	6° $\mathbb{B}$ 10'44		greatest brilliancy	7223 Mar 05 08:37	1° $\mathbb{Y}$ 31'56	-0.7m
inferior conj	7222 Apr 18 12:53	0° $\mathbb{B}$ 27'42	3°26'23	evening max el	7223 Mar 17 03:08	17° $\mathbb{Y}$ 04'57	19°43'22
minimum elong	7222 Apr 18 12:39	0° $\mathbb{B}$ 28'25	3°26'20	asc. node	7223 Mar 20 01:19	19° $\mathbb{Y}$ 38'34	
	7222 Apr 18 21:41	30° $\mathbb{R}$ Y		retrograde	7223 Mar 24 12:46	21° $\mathbb{Y}$ 20'35	
min. Earth dist.	7222 Apr 20 05:49	28° $\mathbb{Y}$ 19'22	0.65831 AU	evening set	7223 Mar 28 04:54	20° $\mathbb{Y}$ 01'44	
morning rise	7222 Apr 24 01:38	24° $\mathbb{Y}$ 11'06		inferior conj	7223 Apr 02 14:24	14° $\mathbb{Y}$ 03'59	3°17'43
direct	7222 Apr 30 12:44	21° $\mathbb{Y}$ 23'24		minimum elong	7223 Apr 02 13:04	14° $\mathbb{Y}$ 08'25	3°17'34
desc. node	7222 May 07 10:08	23° $\mathbb{Y}$ 52'39		min. Earth dist.	7223 Apr 03 16:32	12° $\mathbb{Y}$ 36'57	0.67083 AU
morning max el	7222 May 13 14:14	29° $\mathbb{Y}$ 08'05	26°39'53	morning rise	7223 Apr 07 20:57	7° $\mathbb{Y}$ 47'14	
	7222 May 14 10:24	0° $\mathbb{B}$		direct	7223 Apr 13 21:05	5° $\mathbb{Y}$ 06'30	
	7222 Jun 05 09:37	0° $\mathbb{H}$		desc. node	7223 Apr 24 07:08	10° $\mathbb{Y}$ 42'41	
morning set	7222 Jun 18 12:06	22° $\mathbb{H}$ 57'01		morning max el	7223 Apr 25 23:58	12° $\mathbb{Y}$ 22'01	25°24'43
	7222 Jun 22 03:29	0° $\mathbb{B}$			7223 May 10 04:07	0° $\mathbb{B}$	
max. Earth dist.	7222 Jun 22 16:25	1° $\mathbb{B}$ 04'06	1.34428 AU		7223 May 29 02:58	0° $\mathbb{H}$	
				morning set	7223 Jun 01 03:11	5° $\mathbb{H}$ 21'12	
superior conj	7222 Jun 27 05:51	10° $\mathbb{B}$ 20'04	-0°19'13	max. Earth dist.	7223 Jun 04 19:39	12° $\mathbb{H}$ 09'06	1.36232 AU
minimum elong	7222 Jun 27 06:55	10° $\mathbb{B}$ 25'35	0°19'06				
asc. node	7222 Jun 29 03:27	14° $\mathbb{B}$ 17'42		superior conj	7223 Jun 10 20:25	23° $\mathbb{H}$ 50'12	-0°50'17
evening rise	7222 Jul 04 18:05	26° $\mathbb{B}$ 04'50		minimum elong	7223 Jun 10 23:22	24° $\mathbb{H}$ 04'56	0°49'49
	7222 Jul 06 15:38	0° $\mathbb{Q}$			7223 Jun 13 21:57	0° $\mathbb{B}$	
evening max el	7222 Jul 24 02:46	27° $\mathbb{Q}$ 44'06	21°07'02	asc. node	7223 Jun 16 00:28	4° $\mathbb{B}$ 17'14	
	7222 Jul 26 16:26	0° $\mathbb{M}$		evening rise	7223 Jun 18 23:37	10° $\mathbb{B}$ 19'55	
desc. node	7222 Aug 03 09:21	3° $\mathbb{M}$ 30'19			7223 Jun 29 13:42	0° $\mathbb{Q}$	
retrograde	7222 Aug 04 23:34	3° $\mathbb{M}$ 36'30		evening max el	7223 Jul 06 11:05	8° $\mathbb{Q}$ 53'36	19°51'27

retrograde	7223 Jul 16 15:16	13° $\Omega$ 53'51		evening max el	7224 Jun 18 07:49	20° $\mathcal{E}$ 47'18	18°56'11
evening set	7223 Jul 18 12:09	13° $\Omega$ 44'26		retrograde	7224 Jun 26 21:04	25° $\mathcal{E}$ 00'17	
desc. node	7223 Jul 21 06:23	12° $\Omega$ 58'56		evening set	7224 Jun 28 20:50	24° $\mathcal{E}$ 47'30	
inferior conj	7223 Jul 27 10:55	9° $\Omega$ 43'22	-1°52'29	inferior conj	7224 Jul 07 01:31	20° $\mathcal{E}$ 31'11	0°01'24
minimum elong	7223 Jul 27 05:44	9° $\Omega$ 51'18	1°50'36	minimum elong	7224 Jul 07 01:34	20° $\mathcal{E}$ 31'05	0°01'19
min. Earth dist.	7223 Jul 29 11:52	8° $\Omega$ 28'33	0.55251 AU	transit middle	7224 Jul 07 01:34	20° $\mathcal{E}$ 31'05	0°01'19
morning rise	7223 Aug 04 21:21	5° $\Omega$ 21'25		transit begin	7224 Jul 06 21:50	20° $\mathcal{E}$ 37'41	
direct	7223 Aug 09 08:47	4° $\Omega$ 37'19		transit end	7224 Jul 07 05:18	20° $\mathcal{E}$ 24'30	
morning max el	7223 Aug 23 04:16	11° $\Omega$ 27'18	24°25'12	desc. node	7224 Jul 07 03:23	20° $\mathcal{E}$ 27'53	
	7223 Sep 06 05:26	0° $\mathcal{N}$		min. Earth dist.	7224 Jul 10 03:14	18° $\mathcal{E}$ 21'55	0.56647 AU
asc. node	7223 Sep 11 23:52	10° $\mathcal{N}$ 27'03		morning rise	7224 Jul 15 02:59	15° $\mathcal{E}$ 33'01	
morning set	7223 Sep 17 09:15	21° $\mathcal{N}$ 27'18		direct	7224 Jul 20 11:38	14° $\mathcal{E}$ 24'33	
	7223 Sep 21 08:07	0° $\mathcal{E}$		morning max el	7224 Aug 03 18:12	21° $\mathcal{E}$ 47'42	26°01'45
					7224 Aug 10 23:10	0° $\Omega$	
superior conj	7223 Sep 24 07:02	6° $\mathcal{E}$ 27'30	1°36'44	asc. node	7224 Aug 28 20:52	0° $\mathcal{N}$ 02'38	
minimum elong	7223 Sep 24 05:37	6° $\mathcal{E}$ 19'45	1°36'38		7224 Aug 28 20:21	0° $\mathcal{N}$	
max. Earth dist.	7223 Sep 26 05:34	10° $\mathcal{E}$ 39'46	1.32779 AU	morning set	7224 Aug 31 20:18	6° $\mathcal{N}$ 14'15	
evening rise	7223 Oct 01 14:59	21° $\mathcal{E}$ 59'15					
	7223 Oct 05 16:22	0° $\mathcal{M}$		superior conj	7224 Sep 07 18:02	21° $\mathcal{N}$ 19'30	1°26'06
desc. node	7223 Oct 17 05:29	20° $\mathcal{M}$ 05'01		minimum elong	7224 Sep 07 15:58	21° $\mathcal{N}$ 08'05	1°25'51
	7223 Oct 24 00:00	0° $\mathcal{A}$		max. Earth dist.	7224 Sep 08 13:07	23° $\mathcal{N}$ 04'49	1.32043 AU
evening max el	7223 Nov 04 00:24	12° $\mathcal{A}$ 51'31	27°28'22		7224 Sep 11 17:03	0° $\mathcal{E}$	
retrograde	7223 Nov 17 17:02	20° $\mathcal{A}$ 09'36		evening rise	7224 Sep 14 17:18	6° $\mathcal{E}$ 24'09	
evening set	7223 Nov 24 19:02	17° $\mathcal{A}$ 36'52			7224 Sep 27 05:13	0° $\mathcal{M}$	
min. Earth dist.	7223 Nov 28 12:06	14° $\mathcal{A}$ 25'28	0.63438 AU	desc. node	7224 Oct 03 02:30	9° $\mathcal{M}$ 16'35	
inferior conj	7223 Dec 01 03:56	11° $\mathcal{A}$ 45'25	-2°33'22	evening max el	7224 Oct 16 08:06	25° $\mathcal{M}$ 28'33	27°15'22
minimum elong	7223 Dec 01 08:39	11° $\mathcal{A}$ 33'33	2°31'28		7224 Oct 22 01:25	0° $\mathcal{A}$	
morning rise	7223 Dec 08 00:03	6° $\mathcal{A}$ 29'09		retrograde	7224 Oct 30 04:38	2° $\mathcal{A}$ 40'53	
asc. node	7223 Dec 08 23:14	6° $\mathcal{A}$ 11'28		evening set	7224 Nov 06 06:42	0° $\mathcal{A}$ 23'52	
direct	7223 Dec 10 09:26	6° $\mathcal{A}$ 01'35			7224 Nov 06 21:13	30° $\mathcal{R}$ $\mathcal{M}$	
morning max el	7223 Dec 16 23:28	9° $\mathcal{A}$ 26'10	17°48'51	min. Earth dist.	7224 Nov 09 22:49	27° $\mathcal{M}$ 36'58	0.61507 AU
	7223 Dec 30 17:40	0° $\mathcal{B}$		inferior conj	7224 Nov 12 23:54	24° $\mathcal{M}$ 54'41	-3°40'25
morning set	7224 Jan 02 08:38	4° $\mathcal{B}$ 32'36		minimum elong	7224 Nov 13 06:26	24° $\mathcal{M}$ 40'09	3°38'18
desc. node	7224 Jan 13 04:41	22° $\mathcal{B}$ 59'20		morning rise	7224 Nov 20 08:18	19° $\mathcal{M}$ 57'19	
				direct	7224 Nov 22 14:27	19° $\mathcal{M}$ 35'54	
superior conj	7224 Jan 14 16:04	25° $\mathcal{B}$ 25'28	-0°10'37	asc. node	7224 Nov 24 20:15	19° $\mathcal{M}$ 57'49	
minimum elong	7224 Jan 14 14:56	25° $\mathcal{B}$ 20'48	0°10'22	morning max el	7224 Nov 29 15:04	23° $\mathcal{M}$ 08'29	17°53'54
behind sun begin	7224 Jan 14 07:33	24° $\mathcal{B}$ 50'24			7224 Dec 05 00:46	0° $\mathcal{A}$	
behind sun end	7224 Jan 14 22:19	25° $\mathcal{B}$ 51'09		morning set	7224 Dec 15 08:26	17° $\mathcal{A}$ 47'58	
	7224 Jan 17 11:17	0° $\approx$			7224 Dec 22 02:46	0° $\mathcal{B}$	
max. Earth dist.	7224 Jan 20 18:15	5° $\approx$ 17'36	1.44343 AU				
evening rise	7224 Jan 30 03:36	19° $\approx$ 59'27		superior conj	7224 Dec 25 22:15	6° $\mathcal{B}$ 41'04	0°29'57
	7224 Feb 05 17:28	0° $\mathcal{H}$		minimum elong	7224 Dec 26 00:46	6° $\mathcal{B}$ 51'55	0°29'39
	7224 Feb 27 11:51	0° $\mathcal{Y}$		desc. node	7224 Dec 30 01:42	13° $\mathcal{B}$ 44'58	
evening max el	7224 Feb 28 03:58	0° $\mathcal{Y}$ 42'00	20°46'46	max. Earth dist.	7225 Jan 02 08:25	19° $\mathcal{B}$ 11'38	1.42836 AU
asc. node	7224 Mar 05 22:22	5° $\mathcal{Y}$ 22'36		evening rise	7225 Jan 08 21:08	29° $\mathcal{B}$ 40'41	
retrograde	7224 Mar 07 11:12	5° $\mathcal{Y}$ 34'51			7225 Jan 09 02:03	0° $\approx$	
evening set	7224 Mar 11 12:32	4° $\mathcal{Y}$ 01'06			7225 Jan 29 08:36	0° $\mathcal{H}$	
	7224 Mar 15 06:07	30° $\mathcal{R}$ $\mathcal{H}$		evening max el	7225 Feb 09 23:35	14° $\mathcal{H}$ 20'51	22°00'44
inferior conj	7224 Mar 16 20:16	27° $\mathcal{H}$ 50'58	2°57'44	retrograde	7225 Feb 19 08:27	19° $\mathcal{H}$ 54'15	
minimum elong	7224 Mar 16 18:14	27° $\mathcal{H}$ 57'59	2°57'20	asc. node	7225 Feb 20 19:25	19° $\mathcal{H}$ 43'16	
min. Earth dist.	7224 Mar 17 08:49	27° $\mathcal{H}$ 07'41	0.67899 AU	evening set	7225 Feb 23 20:23	18° $\mathcal{H}$ 05'14	
morning rise	7224 Mar 21 23:42	21° $\mathcal{H}$ 36'18		inferior conj	7225 Mar 01 04:20	11° $\mathcal{H}$ 45'29	2°28'08
direct	7224 Mar 27 10:34	19° $\mathcal{H}$ 11'01		minimum elong	7225 Mar 01 02:01	11° $\mathcal{H}$ 53'30	2°27'31
morning max el	7224 Apr 07 08:47	25° $\mathcal{H}$ 42'46	23°57'27	min. Earth dist.	7225 Mar 01 04:26	11° $\mathcal{H}$ 45'06	0.68285 AU
desc. node	7224 Apr 10 04:07	28° $\mathcal{H}$ 43'37		morning rise	7225 Mar 06 07:29	5° $\mathcal{H}$ 34'28	
	7224 Apr 11 06:39	0° $\mathcal{Y}$		direct	7225 Mar 11 04:10	3° $\mathcal{H}$ 29'58	
	7224 May 02 16:53	0° $\mathcal{B}$		morning max el	7225 Mar 20 19:19	9° $\mathcal{H}$ 10'18	22°28'09
morning set	7224 May 12 21:33	16° $\mathcal{B}$ 44'03		desc. node	7225 Mar 28 01:07	17° $\mathcal{H}$ 35'46	
max. Earth dist.	7224 May 16 15:41	23° $\mathcal{B}$ 17'51	1.38363 AU		7225 Apr 06 02:16	0° $\mathcal{Y}$	
	7224 May 20 08:35	0° $\mathcal{I}$		morning set	7225 Apr 23 13:43	26° $\mathcal{Y}$ 51'36	
					7225 Apr 25 11:32	0° $\mathcal{B}$	
superior conj	7224 May 23 22:33	6° $\mathcal{I}$ 41'41	-1°20'54	max. Earth dist.	7225 Apr 28 12:39	5° $\mathcal{B}$ 06'17	1.40597 AU
minimum elong	7224 May 24 03:19	7° $\mathcal{I}$ 04'17	1°20'16				
evening rise	7224 Jun 01 22:23	24° $\mathcal{I}$ 11'24		superior conj	7225 May 06 07:57	18° $\mathcal{B}$ 44'09	-1°47'49
asc. node	7224 Jun 01 21:30	24° $\mathcal{I}$ 07'04		minimum elong	7225 May 06 13:30	19° $\mathcal{B}$ 09'07	1°47'19
	7224 Jun 04 22:06	0° $\mathcal{E}$			7225 May 12 11:09	0° $\mathcal{I}$	

evening rise	7225 May 16 11:09	7° $\Pi$ 30'58		evening rise	7226 Apr 17 22:54	0° $\mathcal{B}$	
asc. node	7225 May 19 18:31	13° $\Pi$ 42'17		evening rise	7226 Apr 29 09:51	20° $\mathcal{B}$ 09'18	
	7225 May 29 16:28	0° $\mathcal{E}$			7226 May 04 22:25	0° $\Pi$	
evening max el	7225 Jun 01 13:38	3° $\mathcal{E}$ 18'01	18°21'23	asc. node	7226 May 06 15:34	2° $\Pi$ 57'41	
retrograde	7225 Jun 08 22:08	6° $\mathcal{E}$ 58'22		evening max el	7226 May 16 00:52	16° $\Pi$ 16'40	18°06'26
evening set	7225 Jun 11 04:54	6° $\mathcal{E}$ 38'03		retrograde	7226 May 22 16:31	19° $\Pi$ 40'35	
inferior conj	7225 Jun 18 13:43	2° $\mathcal{E}$ 01'18	1°32'29	evening set	7226 May 25 06:32	19° $\Pi$ 09'55	
minimum elong	7225 Jun 18 16:33	1° $\mathcal{E}$ 55'27	1°31'29	inferior conj	7226 May 31 22:15	14° $\Pi$ 12'45	2°34'20
	7225 Jun 21 00:13	30° $\mathcal{R}$ $\Pi$		minimum elong	7226 Jun 01 01:19	14° $\Pi$ 05'22	2°33'31
min. Earth dist.	7225 Jun 21 23:34	29° $\Pi$ 13'19	0.58632 AU	min. Earth dist.	7226 Jun 04 03:20	11° $\Pi$ 09'03	0.60858 AU
desc. node	7225 Jun 24 00:26	27° $\Pi$ 43'35		morning rise	7226 Jun 07 17:44	8° $\Pi$ 17'12	
morning rise	7225 Jun 26 01:00	26° $\Pi$ 29'42		desc. node	7226 Jun 10 21:28	6° $\Pi$ 41'50	
direct	7225 Jul 02 04:18	24° $\Pi$ 49'53		direct	7226 Jun 14 08:53	6° $\Pi$ 06'00	
	7225 Jul 13 17:18	0° $\mathcal{E}$		morning max el	7226 Jun 28 15:46	14° $\Pi$ 03'54	27°50'45
morning max el	7225 Jul 16 13:32	2° $\mathcal{E}$ 34'38	27°13'49		7226 Jul 11 10:56	0° $\mathcal{E}$	
	7225 Aug 05 09:36	0° $\mathcal{Q}$			7226 Jul 28 19:38	0° $\mathcal{Q}$	
asc. node	7225 Aug 15 17:52	19° $\mathcal{Q}$ 53'10		morning set	7226 Jul 31 09:37	5° $\mathcal{Q}$ 14'30	
morning set	7225 Aug 16 05:01	20° $\mathcal{Q}$ 51'42		asc. node	7226 Aug 02 14:53	9° $\mathcal{Q}$ 53'32	
	7225 Aug 20 10:47	0° $\mathcal{M}$		max. Earth dist.	7226 Aug 06 09:23	18° $\mathcal{Q}$ 02'31	1.31901 AU
superior conj	7225 Aug 23 05:50	6° $\mathcal{M}$ 10'23	1°10'26	superior conj	7226 Aug 07 16:44	20° $\mathcal{Q}$ 54'47	0°50'11
minimum elong	7225 Aug 23 03:34	5° $\mathcal{M}$ 57'49	1°10'03	minimum elong	7226 Aug 07 14:46	20° $\mathcal{Q}$ 43'52	0°49'46
max. Earth dist.	7225 Aug 22 23:40	5° $\mathcal{M}$ 36'14	1.31750 AU		7226 Aug 11 19:44	0° $\mathcal{M}$	
evening rise	7225 Aug 30 00:48	21° $\mathcal{M}$ 01'35		evening rise	7226 Aug 14 11:25	5° $\mathcal{M}$ 45'05	
	7225 Sep 03 09:24	0° $\mathcal{A}$			7226 Aug 27 03:37	0° $\mathcal{A}$	
desc. node	7225 Sep 19 23:32	27° $\mathcal{A}$ 39'34		desc. node	7226 Sep 06 20:34	14° $\mathcal{A}$ 54'46	
	7225 Sep 21 18:50	0° $\mathcal{M}$		evening max el	7226 Sep 10 02:20	18° $\mathcal{A}$ 17'38	25°11'33
evening max el	7225 Sep 28 09:16	7° $\mathcal{M}$ 18'30	26°28'31	retrograde	7226 Sep 23 23:46	25° $\mathcal{A}$ 18'56	
retrograde	7225 Oct 12 07:20	14° $\mathcal{M}$ 24'59		evening set	7226 Sep 29 17:47	24° $\mathcal{A}$ 03'26	
evening set	7225 Oct 18 23:50	12° $\mathcal{M}$ 34'34		min. Earth dist.	7226 Oct 04 13:52	21° $\mathcal{A}$ 22'45	0.57432 AU
min. Earth dist.	7225 Oct 22 22:45	9° $\mathcal{M}$ 59'47	0.59437 AU	inferior conj	7226 Oct 07 12:34	19° $\mathcal{A}$ 23'59	-5°21'25
inferior conj	7225 Oct 26 03:51	7° $\mathcal{M}$ 30'40	-4°40'32	minimum elong	7226 Oct 07 16:17	19° $\mathcal{A}$ 17'43	5°21'03
minimum elong	7225 Oct 26 10:37	7° $\mathcal{M}$ 17'32	4°39'00	morning rise	7226 Oct 15 17:05	15° $\mathcal{A}$ 11'54	
morning rise	7225 Nov 02 23:37	2° $\mathcal{M}$ 55'22		direct	7226 Oct 18 04:35	14° $\mathcal{A}$ 53'52	
direct	7225 Nov 05 06:18	2° $\mathcal{M}$ 36'57		morning max el	7226 Oct 27 03:32	19° $\mathcal{A}$ 09'18	19°04'31
asc. node	7225 Nov 11 17:16	5° $\mathcal{M}$ 14'08		asc. node	7226 Oct 29 14:18	21° $\mathcal{A}$ 47'17	
morning max el	7225 Nov 13 01:35	6° $\mathcal{M}$ 26'02	18°18'35		7226 Nov 04 06:50	0° $\mathcal{M}$	
	7225 Nov 28 00:40	0° $\mathcal{X}$		morning set	7226 Nov 12 21:17	16° $\mathcal{M}$ 01'30	
morning set	7225 Nov 28 22:05	1° $\mathcal{X}$ 41'45			7226 Nov 19 23:10	0° $\mathcal{X}$	
superior conj	7225 Dec 08 04:00	19° $\mathcal{X}$ 04'12	1°01'34	superior conj	7226 Nov 21 04:15	2° $\mathcal{X}$ 20'31	1°23'33
minimum elong	7225 Dec 08 07:36	19° $\mathcal{X}$ 20'34	1°01'10	minimum elong	7226 Nov 21 07:16	2° $\mathcal{X}$ 35'02	1°23'19
	7225 Dec 14 07:29	0° $\mathcal{Z}$		max. Earth dist.	7226 Nov 27 23:43	15° $\mathcal{X}$ 01'37	1.38748 AU
max. Earth dist.	7225 Dec 15 18:00	2° $\mathcal{Z}$ 28'18	1.40892 AU	evening rise	7226 Dec 01 18:59	21° $\mathcal{X}$ 43'34	
desc. node	7225 Dec 16 22:42	4° $\mathcal{Z}$ 30'14		desc. node	7226 Dec 03 19:42	25° $\mathcal{X}$ 11'36	
evening rise	7225 Dec 20 08:55	10° $\mathcal{Z}$ 12'21			7226 Dec 06 17:02	0° $\mathcal{Z}$	
	7226 Jan 02 02:03	0° $\mathcal{A}$			7226 Dec 27 01:34	0° $\mathcal{A}$	
evening max el	7226 Jan 23 15:07	28° $\mathcal{A}$ 02'17	23°20'17	evening max el	7227 Jan 06 04:23	11° $\mathcal{A}$ 46'24	24°39'13
	7226 Jan 25 16:59	0° $\mathcal{H}$		retrograde	7227 Jan 17 18:03	18° $\mathcal{A}$ 31'43	
retrograde	7226 Feb 03 03:06	4° $\mathcal{H}$ 14'54		evening set	7227 Jan 23 06:39	16° $\mathcal{A}$ 13'33	
asc. node	7226 Feb 07 16:28	2° $\mathcal{H}$ 31'53		asc. node	7227 Jan 25 13:32	13° $\mathcal{A}$ 54'44	
evening set	7226 Feb 08 02:57	2° $\mathcal{H}$ 10'42		min. Earth dist.	7227 Jan 27 20:44	11° $\mathcal{A}$ 01'32	0.67847 AU
	7226 Feb 10 06:34	30° $\mathcal{R}$ $\mathcal{A}$		inferior conj	7227 Jan 28 19:35	9° $\mathcal{A}$ 45'35	1°03'51
min. Earth dist.	7226 Feb 13 01:09	26° $\mathcal{A}$ 24'32	0.68259 AU	minimum elong	7227 Jan 28 18:07	9° $\mathcal{A}$ 50'25	1°03'20
inferior conj	7226 Feb 13 12:42	25° $\mathcal{A}$ 44'47	1°49'57	morning rise	7227 Feb 03 05:47	3° $\mathcal{A}$ 46'11	
minimum elong	7226 Feb 13 10:35	25° $\mathcal{A}$ 52'04	1°49'15	direct	7227 Feb 06 23:19	2° $\mathcal{A}$ 26'24	
morning rise	7226 Feb 18 18:11	19° $\mathcal{A}$ 38'49		morning max el	7227 Feb 14 11:03	6° $\mathcal{A}$ 38'57	19°53'46
direct	7226 Feb 23 00:49	17° $\mathcal{A}$ 57'03		greatest brilliancy	7227 Feb 27 14:28	23° $\mathcal{A}$ 46'26	-0.6m
morning max el	7226 Mar 03 11:20	22° $\mathcal{A}$ 48'41	21°05'06	desc. node	7227 Mar 01 19:07	27° $\mathcal{A}$ 00'45	
	7226 Mar 09 15:58	0° $\mathcal{H}$			7227 Mar 03 19:07	0° $\mathcal{H}$	
desc. node	7226 Mar 14 22:08	7° $\mathcal{H}$ 05'02		morning set	7227 Mar 12 23:49	14° $\mathcal{H}$ 00'13	
	7226 Mar 30 09:53	0° $\mathcal{Y}$			7227 Mar 23 05:30	0° $\mathcal{Y}$	
morning set	7226 Apr 03 02:37	5° $\mathcal{Y}$ 44'52		max. Earth dist.	7227 Mar 24 02:27	1° $\mathcal{Y}$ 23'17	1.44230 AU
max. Earth dist.	7226 Apr 10 16:06	17° $\mathcal{Y}$ 50'42	1.42637 AU	superior conj	7227 Mar 29 06:38	9° $\mathcal{Y}$ 42'30	-2°10'24
superior conj	7226 Apr 17 19:49	29° $\mathcal{Y}$ 46'48	-2°06'17	minimum elong	7227 Mar 29 04:53	9° $\mathcal{Y}$ 35'22	2°10'24
minimum elong	7226 Apr 17 23:34	0° $\mathcal{B}$ 02'50	2°06'10		7227 Apr 10 10:45	0° $\mathcal{B}$	

evening rise	7227 Apr 11 13:48	1°♄55'24			7228 Feb 24 20:14	0°♄	
asc. node	7227 Apr 23 12:38	21°♄45'46		max. Earth dist.	7228 Mar 05 18:20	15°♄30'48	1.45202 AU
evening max el	7227 Apr 29 14:01	29°♄33'32	18°10'40				
	7227 Apr 30 00:59	0°♄		superior conj	7228 Mar 07 19:23	18°♄43'40	-1°55'08
retrograde	7227 May 05 23:33	2°♄55'51		minimum elong	7228 Mar 07 11:13	18°♄11'30	1°54'33
evening set	7227 May 08 20:28	2°♄12'58			7228 Mar 14 21:55	0°♄	
	7227 May 11 23:07	30°♄		evening rise	7228 Mar 22 19:08	12°♄43'23	
inferior conj	7227 May 14 23:07	26°♄56'55	3°10'07		7228 Apr 02 11:48	0°♄	
minimum elong	7227 May 15 01:06	26°♄51'31	3°09'46	asc. node	7228 Apr 09 09:42	9°♄58'06	
min. Earth dist.	7227 May 17 16:09	24°♄01'00	0.63023 AU	evening max el	7228 Apr 12 02:16	13°♄01'53	18°33'18
morning rise	7227 May 21 04:17	20°♄47'43		retrograde	7228 Apr 18 14:51	16°♄35'41	
direct	7227 May 27 23:20	18°♄12'29		evening set	7228 Apr 21 18:47	15°♄39'23	
desc. node	7227 May 28 18:31	18°♄14'29		inferior conj	7228 Apr 27 12:15	10°♄05'59	3°25'12
morning max el	7227 Jun 10 23:15	26°♄14'59	27°49'32	minimum elong	7228 Apr 27 12:48	10°♄04'20	3°25'07
	7227 Jun 14 10:51	0°♄		min. Earth dist.	7228 Apr 29 14:14	7°♄36'29	0.64917 AU
	7227 Jul 05 00:58	0°♄		morning rise	7228 May 03 06:03	3°♄50'43	
morning set	7227 Jul 15 07:54	19°♄15'58		direct	7228 May 09 21:49	1°♄03'36	
asc. node	7227 Jul 20 11:54	29°♄58'54		desc. node	7228 May 14 15:33	2°♄14'36	
max. Earth dist.	7227 Jul 20 14:12	0°♄11'11	1.32504 AU	morning max el	7228 May 23 09:12	8°♄58'57	27°13'30
	7227 Jul 20 12:06	0°♄			7228 Jun 08 18:35	0°♄	
					7228 Jun 26 10:08	0°♄	
superior conj	7227 Jul 23 00:55	5°♄26'53	0°25'50	morning set	7228 Jun 27 21:05	2°♄48'04	
minimum elong	7227 Jul 22 23:43	5°♄20'26	0°25'32	max. Earth dist.	7228 Jul 02 10:19	11°♄52'44	1.33584 AU
evening rise	7227 Jul 29 23:09	20°♄28'24					
	7227 Aug 03 13:43	0°♄		superior conj	7228 Jul 06 04:17	19°♄40'46	-0°01'59
evening max el	7227 Aug 22 14:12	28°♄40'23	23°36'10	minimum elong	7228 Jul 06 04:23	19°♄41'19	0°02'03
	7227 Aug 24 00:43	0°♄		behind sun begin	7228 Jul 05 22:52	19°♄12'10	
desc. node	7227 Aug 24 17:38	0°♄36'05		behind sun end	7228 Jul 06 09:55	20°♄10'30	
retrograde	7227 Sep 05 04:30	5°♄29'13		asc. node	7228 Jul 06 08:55	20°♄05'15	
evening set	7227 Sep 09 11:53	4°♄48'32			7228 Jul 11 00:32	0°♄	
min. Earth dist.	7227 Sep 16 00:10	1°♄43'25	0.55790 AU	evening rise	7228 Jul 13 10:08	5°♄05'45	
inferior conj	7227 Sep 18 01:10	0°♄30'20	-5°25'29		7228 Jul 26 22:05	0°♄	
minimum elong	7227 Sep 17 22:12	0°♄34'47	5°25'16	evening max el	7228 Aug 03 04:45	8°♄58'40	21°58'34
	7227 Sep 18 21:33	30°♄		desc. node	7228 Aug 10 14:42	14°♄11'03	
morning rise	7227 Sep 26 10:48	26°♄36'29		retrograde	7228 Aug 15 21:15	15°♄16'31	
direct	7227 Sep 29 07:14	26°♄16'22		evening set	7228 Aug 18 17:47	14°♄58'20	
	7227 Oct 08 10:21	0°♄		inferior conj	7228 Aug 27 22:09	10°♄56'41	-4°37'08
morning max el	7227 Oct 09 17:54	1°♄09'20	20°12'45	minimum elong	7228 Aug 27 13:23	11°♄08'59	4°35'13
asc. node	7227 Oct 16 11:20	9°♄22'00		min. Earth dist.	7228 Aug 27 09:18	11°♄14'42	0.54850 AU
	7227 Oct 27 19:17	0°♄		morning rise	7228 Sep 05 10:24	7°♄07'25	
morning set	7227 Oct 28 02:52	0°♄38'37		direct	7228 Sep 08 19:16	6°♄42'18	
				morning max el	7228 Sep 20 19:31	12°♄21'01	21°41'40
superior conj	7227 Nov 04 18:05	16°♄16'12	1°36'37	asc. node	7228 Oct 02 08:21	27°♄43'42	
minimum elong	7227 Nov 04 19:50	16°♄24'59	1°36'34		7228 Oct 03 15:33	0°♄	
max. Earth dist.	7227 Nov 10 06:00	27°♄03'23	1.36661 AU	morning set	7228 Oct 11 12:20	15°♄25'16	
	7227 Nov 11 19:25	0°♄			7228 Oct 18 10:05	0°♄	
evening rise	7227 Nov 14 01:51	4°♄11'10					
desc. node	7227 Nov 20 16:44	15°♄45'19		superior conj	7228 Oct 18 17:23	0°♄38'16	1°41'53
	7227 Nov 29 16:08	0°♄		minimum elong	7228 Oct 18 17:44	0°♄40'04	1°41'55
evening max el	7227 Dec 19 17:16	25°♄32'39	25°50'33	max. Earth dist.	7228 Oct 22 18:12	8°♄56'10	1.34843 AU
	7227 Dec 25 00:56	0°♄		evening rise	7228 Oct 27 01:36	17°♄24'11	
retrograde	7228 Jan 01 04:24	2°♄39'51			7228 Nov 02 23:22	0°♄	
evening set	7228 Jan 07 05:51	0°♄10'24		desc. node	7228 Nov 06 13:46	6°♄05'41	
	7228 Jan 07 10:45	30°♄			7228 Nov 22 23:51	0°♄	
min. Earth dist.	7228 Jan 11 13:00	25°♄32'52	0.67067 AU	evening max el	7228 Dec 01 06:28	9°♄14'18	26°46'59
asc. node	7228 Jan 12 10:36	24°♄24'56		retrograde	7228 Dec 14 09:11	16°♄31'43	
inferior conj	7228 Jan 12 23:06	23°♄45'25	0°10'29	evening set	7228 Dec 20 22:35	13°♄55'30	
minimum elong	7228 Jan 12 22:49	23°♄46'17	0°10'27	min. Earth dist.	7228 Dec 24 23:35	9°♄52'37	0.65930 AU
transit middle	7228 Jan 12 22:49	23°♄46'17	0°10'27	inferior conj	7228 Dec 26 21:10	7°♄39'09	-0°49'24
transit begin	7228 Jan 12 20:40	23°♄53'06		minimum elong	7228 Dec 26 22:34	7°♄35'02	0°48'42
transit end	7228 Jan 13 00:58	23°♄39'27		asc. node	7228 Dec 29 07:39	4°♄55'14	
morning rise	7228 Jan 18 16:19	17°♄54'27		morning rise	7229 Jan 01 23:30	1°♄59'08	
direct	7228 Jan 21 22:17	16°♄53'58		direct	7229 Jan 04 19:48	1°♄14'22	
morning max el	7228 Jan 28 18:29	20°♄39'21	18°57'20	morning max el	7229 Jan 11 07:49	4°♄43'48	18°17'14
	7228 Feb 05 06:03	0°♄			7229 Jan 28 17:24	0°♄	
desc. node	7228 Feb 16 16:07	17°♄16'11		morning set	7229 Jan 30 14:24	3°♄01'15	
morning set	7228 Feb 20 05:42	22°♄49'11		desc. node	7229 Feb 02 13:06	7°♄45'18	

superior conj	7229 Feb 14 23:33	27° $\approx$ 28'30	-1°21'03	superior conj	7230 Jan 25 14:49	6° $\approx$ 50'27	-0°36'34
minimum elong	7229 Feb 14 14:30	26° $\approx$ 52'59	1°19'58	minimum elong	7230 Jan 25 10:34	6° $\approx$ 33'19	0°35'54
max. Earth dist.	7229 Feb 16 13:28	29° $\approx$ 57'11	1.45451 AU	max. Earth dist.	7230 Jan 30 09:08	14° $\approx$ 25'50	1.44954 AU
	7229 Feb 16 14:11	0° $\mathcal{H}$			7230 Feb 09 08:54	0° $\mathcal{H}$	
evening rise	7229 Mar 03 01:27	22° $\mathcal{H}$ 37'10		evening rise	7230 Feb 10 15:39	1° $\mathcal{H}$ 58'15	
	7229 Mar 07 18:41	0° $\Upsilon$		greatest brilliancy	7230 Feb 25 10:58	24° $\mathcal{H}$ 17'49	-0.6m
greatest brilliancy	7229 Mar 14 05:03	9° $\Upsilon$ 58'29	-0.8m		7230 Mar 01 10:37	0° $\Upsilon$	
evening max el	7229 Mar 26 11:12	26° $\Upsilon$ 35'57	19°13'18	evening max el	7230 Mar 09 15:13	10° $\Upsilon$ 12'09	20°08'49
asc. node	7229 Mar 27 06:45	27° $\Upsilon$ 23'36		asc. node	7230 Mar 14 03:48	13° $\Upsilon$ 48'54	
	7229 Mar 30 23:54	0° $\mathcal{B}$		retrograde	7230 Mar 17 09:11	14° $\Upsilon$ 42'29	
retrograde	7229 Apr 02 10:58	0° $\mathcal{B}$ 33'04		evening set	7230 Mar 21 05:11	13° $\Upsilon$ 17'08	
	7229 Apr 04 20:09	30° $\mathcal{R}\Upsilon$		inferior conj	7230 Mar 26 13:39	7° $\Upsilon$ 13'48	3°10'31
evening set	7229 Apr 05 22:28	29° $\Upsilon$ 22'31		minimum elong	7230 Mar 26 11:58	7° $\Upsilon$ 19'29	3°10'15
inferior conj	7229 Apr 11 10:03	23° $\Upsilon$ 33'13	3°24'13	min. Earth dist.	7230 Mar 27 09:48	6° $\Upsilon$ 05'34	0.67486 AU
minimum elong	7229 Apr 11 09:19	23° $\Upsilon$ 35'37	3°24'09	morning rise	7230 Mar 31 18:33	0° $\Upsilon$ 57'59	
min. Earth dist.	7229 Apr 12 20:38	21° $\Upsilon$ 41'47	0.66419 AU		7230 Apr 01 22:59	30° $\mathcal{R}\mathcal{H}$	
morning rise	7229 Apr 16 19:48	17° $\Upsilon$ 16'28		direct	7230 Apr 06 13:14	28° $\mathcal{H}$ 23'09	
direct	7229 Apr 23 02:47	14° $\Upsilon$ 30'16			7230 Apr 11 16:12	0° $\Upsilon$	
desc. node	7229 May 01 12:34	18° $\Upsilon$ 11'26		morning max el	7230 Apr 18 04:19	5° $\Upsilon$ 20'46	24°48'33
morning max el	7229 May 05 19:12	22° $\Upsilon$ 04'02	26°10'04	desc. node	7230 Apr 18 09:34	5° $\Upsilon$ 34'06	
	7229 May 12 17:37	0° $\mathcal{B}$			7230 May 07 04:31	0° $\mathcal{B}$	
	7229 Jun 02 00:40	0° $\Pi$		morning set	7230 May 24 04:25	27° $\mathcal{B}$ 39'35	
morning set	7229 Jun 10 21:31	15° $\Pi$ 40'30			7230 May 25 11:56	0° $\Pi$	
max. Earth dist.	7229 Jun 14 19:33	23° $\Pi$ 07'22	1.35140 AU	max. Earth dist.	7230 May 27 19:17	4° $\Pi$ 11'05	1.37109 AU
	7229 Jun 18 07:02	0° $\mathcal{E}$					
superior conj	7229 Jun 20 00:23	3° $\mathcal{E}$ 29'23	-0°32'16	superior conj	7230 Jun 03 10:06	16° $\Pi$ 43'45	-1°03'29
minimum elong	7229 Jun 20 02:14	3° $\mathcal{E}$ 38'47	0°32'00	minimum elong	7230 Jun 03 13:52	17° $\Pi$ 02'12	1°02'55
asc. node	7229 Jun 23 05:56	10° $\mathcal{E}$ 08'34		asc. node	7230 Jun 10 02:56	0° $\mathcal{E}$ 04'16	
evening rise	7229 Jun 27 18:18	19° $\mathcal{E}$ 31'09			7230 Jun 10 02:05	0° $\mathcal{E}$	
	7229 Jul 03 00:06	0° $\Omega$		evening rise	7230 Jun 11 21:17	3° $\mathcal{E}$ 36'52	
evening max el	7229 Jul 16 05:38	19° $\Omega$ 44'34	20°32'37		7230 Jun 27 15:40	0° $\Omega$	
retrograde	7229 Jul 27 09:21	25° $\Omega$ 14'37		evening max el	7230 Jun 28 19:24	1° $\Omega$ 12'17	19°25'25
desc. node	7229 Jul 28 11:45	25° $\Omega$ 11'35		retrograde	7230 Jul 08 06:04	5° $\Omega$ 51'22	
evening set	7229 Jul 29 10:04	25° $\Omega$ 04'27		evening set	7230 Jul 10 03:19	5° $\Omega$ 41'02	
inferior conj	7229 Aug 07 15:18	21° $\Omega$ 07'26	-3°00'02	desc. node	7230 Jul 15 08:48	3° $\Omega$ 39'59	
minimum elong	7229 Aug 07 07:15	21° $\Omega$ 19'02	2°57'20	inferior conj	7230 Jul 18 19:00	1° $\Omega$ 34'06	-1°02'28
min. Earth dist.	7229 Aug 08 19:26	20° $\Omega$ 26'52	0.54831 AU	minimum elong	7230 Jul 18 16:12	1° $\Omega$ 38'39	1°01'27
morning rise	7229 Aug 16 03:53	17° $\Omega$ 03'12			7230 Jul 21 05:16	30° $\mathcal{R}\mathcal{E}$	
direct	7229 Aug 20 04:38	16° $\Omega$ 28'19		min. Earth dist.	7230 Jul 21 08:16	29° $\mathcal{E}$ 55'17	0.55750 AU
morning max el	7229 Sep 02 11:27	22° $\Omega$ 53'18	23°24'34	morning rise	7230 Jul 27 02:28	26° $\mathcal{E}$ 57'28	
	7229 Sep 08 18:53	0° $\mathcal{M}$		direct	7230 Jul 31 22:45	26° $\mathcal{E}$ 04'29	
asc. node	7229 Sep 19 05:21	16° $\mathcal{M}$ 41'07			7230 Aug 11 06:31	0° $\Omega$	
morning set	7229 Sep 25 23:44	0° $\underline{\mathcal{A}}$ 16'04		morning max el	7230 Aug 15 00:17	3° $\Omega$ 09'18	25°08'23
	7229 Sep 25 20:41	0° $\underline{\mathcal{A}}$			7230 Sep 02 22:23	0° $\mathcal{M}$	
				asc. node	7230 Sep 06 02:20	6° $\mathcal{M}$ 04'35	
				morning set	7230 Sep 10 11:22	15° $\mathcal{M}$ 05'38	
superior conj	7229 Oct 02 23:05	15° $\underline{\mathcal{A}}$ 17'43	1°40'21				
minimum elong	7229 Oct 02 22:13	15° $\underline{\mathcal{A}}$ 13'02	1°40'20	superior conj	7230 Sep 17 08:43	0° $\underline{\mathcal{A}}$ 06'38	1°32'51
max. Earth dist.	7229 Oct 05 14:59	20° $\underline{\mathcal{A}}$ 58'50	1.33414 AU	minimum elong	7230 Sep 17 06:58	29° $\mathcal{M}$ 57'03	1°32'43
	7229 Oct 09 23:52	0° $\mathcal{M}$			7230 Sep 17 07:30	0° $\underline{\mathcal{A}}$	
evening rise	7229 Oct 10 14:17	1° $\mathcal{M}$ 12'09		max. Earth dist.	7230 Sep 18 19:25	3° $\underline{\mathcal{A}}$ 16'32	1.32415 AU
desc. node	7229 Oct 24 10:48	26° $\mathcal{M}$ 06'23		evening rise	7230 Sep 24 12:25	15° $\underline{\mathcal{A}}$ 25'23	
	7229 Oct 26 22:19	0° $\mathcal{A}$			7230 Oct 02 00:10	0° $\mathcal{M}$	
evening max el	7229 Nov 13 19:09	22° $\mathcal{A}$ 40'51	27°21'11	desc. node	7230 Oct 11 07:51	15° $\mathcal{M}$ 39'02	
retrograde	7229 Nov 27 07:42	29° $\mathcal{A}$ 59'31			7230 Oct 21 21:38	0° $\mathcal{A}$	
evening set	7229 Dec 04 06:31	27° $\mathcal{A}$ 23'04		evening max el	7230 Oct 27 05:14	5° $\mathcal{A}$ 38'58	27°26'48
min. Earth dist.	7229 Dec 08 02:05	23° $\mathcal{A}$ 53'57	0.64448 AU	retrograde	7230 Nov 09 23:28	12° $\mathcal{A}$ 54'23	
inferior conj	7229 Dec 10 11:23	21° $\mathcal{A}$ 21'11	-1°54'26	evening set	7230 Nov 17 02:42	10° $\mathcal{A}$ 26'46	
minimum elong	7229 Dec 10 14:52	21° $\mathcal{A}$ 11'55	1°52'57	min. Earth dist.	7230 Nov 20 18:42	7° $\mathcal{A}$ 27'12	0.62652 AU
asc. node	7229 Dec 16 04:41	16° $\mathcal{A}$ 19'49		inferior conj	7230 Nov 23 14:57	4° $\mathcal{A}$ 44'34	-3°02'05
morning rise	7229 Dec 17 00:39	15° $\mathcal{A}$ 55'14		minimum elong	7230 Nov 23 20:32	4° $\mathcal{A}$ 31'14	3°00'00
direct	7229 Dec 19 13:25	15° $\mathcal{A}$ 22'21			7230 Nov 29 17:15	30° $\mathcal{R}\mathcal{M}$	
morning max el	7229 Dec 26 00:28	18° $\mathcal{A}$ 45'49	17°54'08	morning rise	7230 Nov 30 16:19	29° $\mathcal{M}$ 36'06	
	7230 Jan 03 08:13	0° $\mathcal{Z}$		direct	7230 Dec 03 00:02	29° $\mathcal{M}$ 11'29	
morning set	7230 Jan 12 04:12	14° $\mathcal{Z}$ 39'27		asc. node	7230 Dec 03 01:43	29° $\mathcal{M}$ 11'30	
desc. node	7230 Jan 20 10:04	28° $\mathcal{Z}$ 23'47			7230 Dec 06 05:17	0° $\mathcal{A}$	
	7230 Jan 21 09:33	0° $\approx$		morning max el	7230 Dec 09 17:27	2° $\mathcal{A}$ 38'01	17°48'43

morning set	7230 Dec 25 17:30	27° $\text{♄}$ 25'10		morning set	7231 Dec 08 23:48	10° $\text{♄}$ 58'30	
	7230 Dec 27 04:31	0° $\text{♄}$					
superior conj	7231 Jan 06 06:06	17° $\text{♄}$ 23'34	0°07'33	superior conj	7231 Dec 18 22:55	29° $\text{♄}$ 09'52	0°44'31
minimum elong	7231 Jan 06 06:51	17° $\text{♄}$ 26'42	0°07'31	minimum elong	7231 Dec 19 02:09	29° $\text{♄}$ 24'11	0°44'09
behind sun begin	7231 Jan 05 22:47	16° $\text{♄}$ 52'49			7231 Dec 19 10:15	0° $\text{♄}$	
behind sun end	7231 Jan 06 14:54	18° $\text{♄}$ 00'30		desc. node	7231 Dec 25 04:03	9° $\text{♄}$ 53'55	
desc. node	7231 Jan 07 07:03	19° $\text{♄}$ 08'00		max. Earth dist.	7231 Dec 26 13:54	12° $\text{♄}$ 15'42	1.42044 AU
max. Earth dist.	7231 Jan 13 02:03	28° $\text{♄}$ 37'49	1.43769 AU	evening rise	7232 Jan 01 03:50	21° $\text{♄}$ 21'53	
	7231 Jan 13 22:30	0° $\text{♄}$			7232 Jan 06 16:03	0° $\text{♄}$	
evening rise	7231 Jan 21 03:34	11° $\text{♄}$ 21'40			7232 Jan 27 18:44	0° $\text{♄}$	
	7231 Feb 02 12:18	0° $\text{♄}$		evening max el	7232 Feb 03 07:13	7° $\text{♄}$ 29'09	22°34'11
evening max el	7231 Feb 20 13:41	23° $\text{♄}$ 49'50	21°17'08	retrograde	7232 Feb 13 03:53	13° $\text{♄}$ 20'27	
retrograde	7231 Mar 01 07:26	29° $\text{♄}$ 00'00		asc. node	7232 Feb 15 21:56	12° $\text{♄}$ 41'44	
asc. node	7231 Mar 01 00:51	28° $\text{♄}$ 59'36		evening set	7232 Feb 17 20:39	11° $\text{♄}$ 24'58	
evening set	7231 Mar 05 13:08	27° $\text{♄}$ 19'35		inferior conj	7232 Feb 23 05:10	5° $\text{♄}$ 01'54	2°12'56
inferior conj	7231 Mar 10 20:43	21° $\text{♄}$ 04'43	2°46'18	minimum elong	7232 Feb 23 02:53	5° $\text{♄}$ 09'50	2°12'16
minimum elong	7231 Mar 10 18:31	21° $\text{♄}$ 12'22	2°45'47	min. Earth dist.	7232 Feb 23 00:14	5° $\text{♄}$ 19'02	0.68320 AU
min. Earth dist.	7231 Mar 11 03:46	20° $\text{♄}$ 40'15	0.68113 AU		7232 Feb 27 04:26	30° $\text{♄}$	
morning rise	7231 Mar 15 23:43	14° $\text{♄}$ 51'29		morning rise	7232 Feb 28 08:59	28° $\text{♄}$ 52'38	
direct	7231 Mar 21 04:28	12° $\text{♄}$ 34'53		direct	7232 Mar 03 23:31	26° $\text{♄}$ 57'50	
morning max el	7231 Mar 31 13:40	18° $\text{♄}$ 45'16	23°19'14		7232 Mar 10 14:20	0° $\text{♄}$	
desc. node	7231 Apr 05 06:32	23° $\text{♄}$ 59'08		morning max el	7232 Mar 13 02:10	2° $\text{♄}$ 17'13	21°51'34
	7231 Apr 10 00:32	0° $\text{♄}$		desc. node	7232 Mar 22 03:31	13° $\text{♄}$ 08'32	
	7231 Apr 30 07:43	0° $\text{♄}$			7232 Apr 02 23:30	0° $\text{♄}$	
morning set	7231 May 05 12:13	8° $\text{♄}$ 31'47		morning set	7232 Apr 14 16:22	18° $\text{♄}$ 06'10	
max. Earth dist.	7231 May 09 15:05	15° $\text{♄}$ 34'23	1.39318 AU	max. Earth dist.	7232 Apr 20 13:48	27° $\text{♄}$ 43'34	1.41504 AU
					7232 Apr 21 22:25	0° $\text{♄}$	
superior conj	7231 May 17 05:38	29° $\text{♄}$ 15'13	-1°33'01	superior conj	7232 Apr 28 06:24	10° $\text{♄}$ 53'06	-1°57'01
minimum elong	7231 May 17 10:56	29° $\text{♄}$ 39'49	1°32'24	minimum elong	7232 Apr 28 11:36	11° $\text{♄}$ 16'00	1°56'41
	7231 May 17 15:16	0° $\text{♄}$		evening rise	7232 May 08 23:34	0° $\text{♄}$ 18'50	
evening rise	7231 May 26 16:16	17° $\text{♄}$ 15'53			7232 May 08 19:30	0° $\text{♄}$	
asc. node	7231 May 27 23:58	19° $\text{♄}$ 48'24		asc. node	7232 May 13 21:01	9° $\text{♄}$ 15'58	
	7231 Jun 02 11:33	0° $\text{♄}$		evening max el	7232 May 25 04:53	26° $\text{♄}$ 05'37	18°12'40
evening max el	7231 Jun 11 20:19	13° $\text{♄}$ 21'54	18°38'52	retrograde	7232 Jun 01 04:53	29° $\text{♄}$ 37'00	
retrograde	7231 Jun 19 20:10	17° $\text{♄}$ 19'28		evening set	7232 Jun 03 14:43	29° $\text{♄}$ 12'40	
evening set	7231 Jun 21 22:32	17° $\text{♄}$ 04'02		inferior conj	7232 Jun 10 15:50	24° $\text{♄}$ 27'28	2°02'12
inferior conj	7231 Jun 29 18:37	12° $\text{♄}$ 39'09	0°43'34	minimum elong	7232 Jun 10 19:00	24° $\text{♄}$ 20'27	2°01'12
minimum elong	7231 Jun 29 20:13	12° $\text{♄}$ 36'08	0°42'54	min. Earth dist.	7232 Jun 14 01:07	21° $\text{♄}$ 29'23	0.59568 AU
desc. node	7231 Jul 02 05:51	10° $\text{♄}$ 46'59		morning rise	7232 Jun 17 20:21	18° $\text{♄}$ 44'12	
min. Earth dist.	7231 Jul 03 01:36	10° $\text{♄}$ 10'48	0.57435 AU	desc. node	7232 Jun 18 02:52	18° $\text{♄}$ 34'48	
morning rise	7231 Jul 07 14:25	7° $\text{♄}$ 25'26		direct	7232 Jun 24 05:45	16° $\text{♄}$ 50'09	
direct	7231 Jul 13 07:22	6° $\text{♄}$ 04'15		morning max el	7232 Jul 08 14:36	24° $\text{♄}$ 42'22	27°34'11
morning max el	7231 Jul 27 16:19	13° $\text{♄}$ 38'25	26°36'18		7232 Jul 13 10:43	0° $\text{♄}$	
	7231 Aug 09 15:41	0° $\text{♄}$			7232 Aug 01 22:57	0° $\text{♄}$	
asc. node	7231 Aug 23 23:19	25° $\text{♄}$ 46'51		morning set	7232 Aug 09 04:52	14° $\text{♄}$ 20'59	
morning set	7231 Aug 25 21:38	29° $\text{♄}$ 48'55		asc. node	7232 Aug 09 20:20	15° $\text{♄}$ 42'15	
	7231 Aug 25 23:44	0° $\text{♄}$		max. Earth dist.	7232 Aug 15 15:04	28° $\text{♄}$ 14'23	1.31749 AU
superior conj	7231 Sep 01 20:16	14° $\text{♄}$ 58'33	1°20'03	superior conj	7232 Aug 16 07:57	29° $\text{♄}$ 47'45	1°02'24
minimum elong	7231 Sep 01 18:03	14° $\text{♄}$ 46'20	1°19'44	minimum elong	7232 Aug 16 05:44	29° $\text{♄}$ 35'33	1°01'59
max. Earth dist.	7231 Sep 02 04:34	15° $\text{♄}$ 44'33	1.31858 AU		7232 Aug 16 10:09	0° $\text{♄}$	
evening rise	7231 Sep 08 17:11	29° $\text{♄}$ 55'49		evening rise	7232 Aug 23 02:17	14° $\text{♄}$ 36'46	
	7231 Sep 08 17:59	0° $\text{♄}$			7232 Aug 30 18:00	0° $\text{♄}$	
	7231 Sep 25 03:20	0° $\text{♄}$		desc. node	7232 Sep 14 01:57	22° $\text{♄}$ 29'24	
desc. node	7231 Sep 28 04:54	4° $\text{♄}$ 31'57		evening max el	7232 Sep 20 07:59	29° $\text{♄}$ 24'45	25°59'08
evening max el	7231 Oct 09 10:11	17° $\text{♄}$ 56'05	26°59'29		7232 Sep 20 23:08	0° $\text{♄}$	
retrograde	7231 Oct 23 07:41	25° $\text{♄}$ 06'41		retrograde	7232 Oct 04 06:43	6° $\text{♄}$ 29'47	
evening set	7231 Oct 30 07:09	22° $\text{♄}$ 59'18		evening set	7232 Oct 10 15:03	4° $\text{♄}$ 53'45	
min. Earth dist.	7231 Nov 03 00:38	20° $\text{♄}$ 19'41	0.60630 AU	min. Earth dist.	7232 Oct 14 20:48	2° $\text{♄}$ 18'36	0.58550 AU
inferior conj	7231 Nov 06 04:32	17° $\text{♄}$ 40'34	-4°07'24	inferior conj	7232 Oct 18 00:42	0° $\text{♄}$ 00'11	-5°01'15
minimum elong	7231 Nov 06 11:27	17° $\text{♄}$ 26'01	4°05'24	minimum elong	7232 Oct 18 06:40	29° $\text{♄}$ 49'15	5°00'11
morning rise	7231 Nov 13 18:02	12° $\text{♄}$ 52'41			7232 Oct 18 00:48	30° $\text{♄}$	
direct	7231 Nov 15 23:49	12° $\text{♄}$ 33'00		morning rise	7232 Oct 26 00:36	25° $\text{♄}$ 34'47	
asc. node	7231 Nov 19 22:45	13° $\text{♄}$ 37'18		direct	7232 Oct 28 08:34	25° $\text{♄}$ 16'57	
morning max el	7231 Nov 23 07:25	16° $\text{♄}$ 11'25	18°01'56	morning max el	7232 Nov 05 14:49	29° $\text{♄}$ 16'29	18°35'25
	7231 Dec 02 23:02	0° $\text{♄}$		asc. node	7232 Nov 05 19:47	29° $\text{♄}$ 28'34	

	7232 Nov 06 08:11	0°♄			7233 Oct 31 23:02	0°♄	
morning set	7232 Nov 21 18:03	25°♄05'15		morning set	7233 Nov 05 20:19	9°♄33'25	
	7232 Nov 24 06:51	0°♄					
superior conj	7232 Nov 30 13:15	11°♄57'59	1°12'01	superior conj	7233 Nov 13 19:47	25°♄32'16	1°30'07
minimum elong	7232 Nov 30 16:44	12°♄14'15	1°11'40	minimum elong	7233 Nov 13 22:19	25°♄44'40	1°29'57
max. Earth dist.	7232 Dec 07 21:13	25°♄12'54	1.39991 AU	max. Earth dist.	7233 Nov 16 02:53	0°♄	
	7232 Dec 10 15:59	0°♄		evening rise	7233 Nov 20 02:49	7°♄31'41	1.37844 AU
desc. node	7232 Dec 11 01:04	0°♄38'28		desc. node	7233 Nov 23 20:28	14°♄16'02	
evening rise	7232 Dec 12 01:09	2°♄19'47			7233 Nov 27 22:07	21°♄17'18	
	7232 Dec 29 23:12	0°♄			7233 Dec 03 05:54	0°♄	
evening max el	7233 Jan 15 21:40	21°♄12'25	23°54'18	evening max el	7233 Dec 24 19:26	0°♄	
retrograde	7233 Jan 26 21:08	27°♄40'02		retrograde	7233 Dec 29 10:50	4°♄58'50	25°10'55
evening set	7233 Feb 01 02:12	25°♄29'58		evening set	7234 Jan 10 10:03	11°♄54'03	
asc. node	7233 Feb 01 19:00	24°♄51'59		asc. node	7234 Jan 16 04:12	9°♄30'51	
min. Earth dist.	7233 Feb 05 20:52	19°♄58'01	0.68135 AU	min. Earth dist.	7234 Jan 19 16:04	5°♄47'20	
inferior conj	7233 Feb 06 13:10	19°♄02'38	1°31'19	inferior conj	7234 Jan 20 15:20	4°♄33'28	0.67567 AU
minimum elong	7233 Feb 06 11:16	19°♄09'04	1°30'41	minimum elong	7234 Jan 21 18:52	3°♄03'47	0°42'05
morning rise	7233 Feb 11 20:21	12°♄58'58			7234 Jan 21 17:51	3°♄07'06	0°41'45
direct	7233 Feb 15 21:18	11°♄26'36		morning rise	7234 Jan 24 05:49	30°♄	
morning max el	7233 Feb 23 21:12	16°♄00'17	20°32'54	direct	7234 Jan 27 07:46	27°♄07'39	
	7233 Mar 07 00:45	0°♄		morning max el	7234 Jan 30 20:17	25°♄56'17	
desc. node	7233 Mar 09 00:30	2°♄50'08			7234 Feb 07 00:17	29°♄55'23	19°27'47
morning set	7233 Mar 24 20:04	26°♄35'26		greatest brilliancy	7234 Feb 07 02:09	0°♄	
	7233 Mar 27 00:34	0°♄		desc. node	7234 Feb 19 22:46	16°♄59'21	-0.7m
max. Earth dist.	7233 Apr 02 19:57	10°♄48'45	1.43388 AU		7234 Feb 23 21:29	22°♄55'20	
				morning set	7234 Feb 28 12:46	0°♄	
superior conj	7233 Apr 09 07:49	21°♄27'41	-2°10'09	max. Earth dist.	7234 Mar 03 17:59	4°♄57'04	
minimum elong	7233 Apr 09 09:40	21°♄35'23	2°10'09		7234 Mar 16 09:29	24°♄40'38	1.44736 AU
	7233 Apr 14 09:03	0°♄			7234 Mar 19 17:54	0°♄	
evening rise	7233 Apr 21 14:49	12°♄35'42		superior conj	7234 Mar 20 08:24	0°♄57'55	-2°06'27
asc. node	7233 Apr 30 18:05	28°♄20'42		minimum elong	7234 Mar 20 03:38	0°♄38'54	2°06'15
	7233 May 01 18:50	0°♄		evening rise	7234 Apr 03 09:31	23°♄57'59	
evening max el	7233 May 08 17:24	9°♄13'29	18°05'59		7234 Apr 07 00:03	0°♄	
retrograde	7233 May 15 05:04	12°♄34'35		asc. node	7234 Apr 17 15:09	16°♄55'09	
evening set	7233 May 17 22:09	11°♄58'48		evening max el	7234 Apr 22 06:33	22°♄36'39	18°18'04
inferior conj	7233 May 24 07:49	6°♄53'34	2°52'21	retrograde	7234 Apr 28 16:09	26°♄02'08	
minimum elong	7233 May 24 10:31	6°♄46'42	2°51'45	evening set	7234 May 01 16:08	25°♄13'28	
min. Earth dist.	7233 May 27 08:28	3°♄50'31	0.61807 AU	inferior conj	7234 May 07 14:24	19°♄49'39	3°18'43
morning rise	7233 May 30 20:57	0°♄51'24		minimum elong	7234 May 07 15:47	19°♄45'43	3°18'31
	7233 Jun 01 05:16	30°♄		min. Earth dist.	7234 May 10 01:05	17°♄03'28	0.63875 AU
desc. node	7233 Jun 04 23:55	28°♄36'36		morning rise	7234 May 13 14:22	13°♄37'20	
direct	7233 Jun 06 14:57	28°♄28'31		direct	7234 May 20 08:47	10°♄55'47	
	7233 Jun 12 09:16	0°♄		desc. node	7234 May 22 20:56	11°♄15'34	
morning max el	7233 Jun 20 19:04	6°♄29'08	27°54'48	morning max el	7234 Jun 03 03:55	18°♄55'52	27°38'08
	7233 Jul 08 14:05	0°♄			7234 Jun 12 12:30	0°♄	
morning set	7233 Jul 24 07:00	28°♄35'13			7234 Jul 01 12:46	0°♄	
	7233 Jul 24 23:31	0°♄		morning set	7234 Jul 08 01:45	12°♄25'14	
asc. node	7233 Jul 27 17:21	5°♄45'13		max. Earth dist.	7234 Jul 13 00:47	22°♄33'09	1.32912 AU
max. Earth dist.	7233 Jul 29 23:04	10°♄34'02	1.32098 AU	asc. node	7234 Jul 14 14:22	25°♄51'43	
superior conj	7233 Jul 31 17:54	14°♄27'39	0°40'21	superior conj	7234 Jul 16 00:16	28°♄52'48	0°14'26
minimum elong	7233 Jul 31 16:11	14°♄18'17	0°39'56	minimum elong	7234 Jul 15 23:34	28°♄49'02	0°14'12
evening rise	7233 Aug 07 13:35	29°♄21'00		behind sun begin	7234 Jul 15 21:05	28°♄35'43	
	7233 Aug 07 20:54	0°♄		behind sun end	7234 Jul 16 02:03	29°♄02'22	
	7233 Aug 24 11:25	0°♄			7234 Jul 16 12:46	0°♄	
desc. node	7233 Aug 31 23:02	9°♄08'26		evening rise	7234 Jul 23 01:14	14°♄02'50	
evening max el	7233 Sep 01 22:23	10°♄06'08	24°32'28		7234 Jul 31 01:09	0°♄	
retrograde	7233 Sep 15 17:59	17°♄02'55		evening max el	7234 Aug 14 10:10	20°♄21'53	22°53'52
evening set	7233 Sep 20 22:17	16°♄03'15		desc. node	7234 Aug 18 20:05	24°♄00'01	
min. Earth dist.	7233 Sep 26 09:28	13°♄14'11	0.56667 AU	retrograde	7234 Aug 27 16:45	26°♄59'49	
inferior conj	7233 Sep 29 00:44	11°♄33'40	-5°28'48	evening set	7234 Aug 31 08:43	26°♄30'25	
minimum elong	7233 Sep 29 01:55	11°♄31'46	5°28'44	min. Earth dist.	7234 Sep 07 18:26	23°♄10'46	0.55293 AU
morning rise	7233 Oct 07 07:46	7°♄30'00		inferior conj	7234 Sep 09 05:33	22°♄20'19	-5°11'44
direct	7233 Oct 09 22:42	7°♄11'16		minimum elong	7234 Sep 08 23:35	22°♄28'55	5°10'57
morning max el	7233 Oct 19 12:00	11°♄41'38	19°30'48	morning rise	7234 Sep 17 16:34	18°♄30'53	
asc. node	7233 Oct 23 16:48	16°♄29'22		direct	7234 Sep 20 18:09	18°♄08'58	



morning max el	7234 Oct 01 20:43	23° $\mathbb{M}$ 20'03	20°48'22	evening set	7235 Aug 10 16:19	6° $\mathbb{M}$ 34'11	
	7234 Oct 07 14:32	0° $\mathbb{L}$		inferior conj	7235 Aug 19 23:03	2° $\mathbb{M}$ 35'52	-4°00'39
asc. node	7234 Oct 10 13:47	4° $\mathbb{L}$ 25'07		minimum elong	7235 Aug 19 13:42	2° $\mathbb{M}$ 48'59	3°58'03
morning set	7234 Oct 21 03:46	24° $\mathbb{L}$ 15'04		min. Earth dist.	7235 Aug 20 03:38	2° $\mathbb{M}$ 29'25	0.54719 AU
	7234 Oct 23 22:10	0° $\mathbb{M}$			7235 Aug 24 21:55	30° $\mathbb{R}$ $\mathbb{Q}$	
				morning rise	7235 Aug 28 11:54	28° $\mathbb{Q}$ 42'56	
superior conj	7234 Oct 28 14:01	9° $\mathbb{M}$ 39'58	1°39'45	direct	7235 Sep 01 02:47	28° $\mathbb{Q}$ 14'39	
minimum elong	7234 Oct 28 15:10	9° $\mathbb{M}$ 45'50	1°39'45		7235 Sep 07 22:06	0° $\mathbb{M}$	
max. Earth dist.	7234 Nov 02 11:16	19° $\mathbb{M}$ 27'23	1.35844 AU	morning max el	7235 Sep 13 17:41	4° $\mathbb{M}$ 13'26	22°24'32
evening rise	7234 Nov 06 10:55	27° $\mathbb{M}$ 03'25		asc. node	7235 Sep 27 10:47	23° $\mathbb{M}$ 03'15	
	7234 Nov 08 01:16	0° $\mathbb{X}$			7235 Oct 01 03:35	0° $\mathbb{L}$	
desc. node	7234 Nov 14 19:09	11° $\mathbb{X}$ 45'54		morning set	7235 Oct 05 14:14	9° $\mathbb{L}$ 04'13	
	7234 Nov 26 15:05	0° $\mathbb{Z}$					
evening max el	7234 Dec 11 23:47	18° $\mathbb{Z}$ 43'48	26°16'49	superior conj	7235 Oct 12 16:22	24° $\mathbb{L}$ 10'48	1°42'00
retrograde	7234 Dec 24 17:59	25° $\mathbb{Z}$ 56'17		minimum elong	7235 Oct 12 16:10	24° $\mathbb{L}$ 09'43	1°42'03
evening set	7234 Dec 31 00:53	23° $\mathbb{Z}$ 23'04			7235 Oct 15 10:56	0° $\mathbb{M}$	
min. Earth dist.	7235 Jan 04 05:16	19° $\mathbb{Z}$ 00'38	0.66629 AU	max. Earth dist.	7235 Oct 16 02:50	1° $\mathbb{M}$ 22'10	1.34174 AU
inferior conj	7235 Jan 05 20:18	17° $\mathbb{Z}$ 01'16	-0°14'10	evening rise	7235 Oct 20 16:35	10° $\mathbb{M}$ 32'28	
minimum elong	7235 Jan 05 20:40	17° $\mathbb{Z}$ 00'07	0°13'55		7235 Oct 31 11:18	0° $\mathbb{X}$	
transit middle	7235 Jan 05 20:40	17° $\mathbb{Z}$ 00'07	0°13'55	desc. node	7235 Nov 01 16:10	1° $\mathbb{X}$ 58'59	
transit begin	7235 Jan 05 19:14	17° $\mathbb{Z}$ 04'32			7235 Nov 22 05:03	0° $\mathbb{Z}$	
transit end	7235 Jan 05 22:07	16° $\mathbb{Z}$ 55'42		evening max el	7235 Nov 24 12:41	2° $\mathbb{Z}$ 19'57	27°04'41
asc. node	7235 Jan 06 13:06	16° $\mathbb{Z}$ 10'07		retrograde	7235 Dec 07 20:19	9° $\mathbb{Z}$ 39'37	
morning rise	7235 Jan 11 17:10	11° $\mathbb{Z}$ 14'55		evening set	7235 Dec 14 14:13	7° $\mathbb{Z}$ 01'59	
direct	7235 Jan 14 18:50	10° $\mathbb{Z}$ 21'34		min. Earth dist.	7235 Dec 18 12:36	3° $\mathbb{Z}$ 13'59	0.65333 AU
morning max el	7235 Jan 21 10:33	13° $\mathbb{Z}$ 58'31	18°38'18	inferior conj	7235 Dec 20 15:19	0° $\mathbb{Z}$ 50'59	-1°16'27
	7235 Feb 02 06:53	0° $\mathbb{X}$		minimum elong	7235 Dec 20 17:34	0° $\mathbb{Z}$ 44'38	1°15'26
desc. node	7235 Feb 10 18:28	13° $\mathbb{X}$ 17'17			7235 Dec 21 09:30	30° $\mathbb{R}$ $\mathbb{X}$	
morning set	7235 Feb 11 10:06	14° $\mathbb{X}$ 18'52		asc. node	7235 Dec 24 10:07	26° $\mathbb{X}$ 58'01	
	7235 Feb 21 09:35	0° $\mathbb{X}$		morning rise	7235 Dec 26 22:08	25° $\mathbb{X}$ 16'51	
max. Earth dist.	7235 Feb 27 03:33	9° $\mathbb{X}$ 00'11	1.45400 AU	direct	7235 Dec 29 14:52	24° $\mathbb{X}$ 37'45	
				morning max el	7236 Jan 05 01:44	28° $\mathbb{X}$ 03'38	18°05'24
superior conj	7235 Feb 27 15:10	9° $\mathbb{X}$ 45'42	-1°42'37		7236 Jan 06 20:36	0° $\mathbb{Z}$	
minimum elong	7235 Feb 27 05:42	9° $\mathbb{X}$ 08'38	1°41'44	morning set	7236 Jan 23 07:36	25° $\mathbb{Z}$ 09'26	
	7235 Mar 12 11:02	0° $\mathbb{Y}$			7236 Jan 26 06:36	0° $\mathbb{X}$	
evening rise	7235 Mar 15 04:49	4° $\mathbb{Y}$ 22'16		desc. node	7236 Jan 28 15:28	3° $\mathbb{X}$ 51'17	
greatest brilliancy	7235 Mar 23 06:45	17° $\mathbb{Y}$ 15'53	-0.9m				
	7235 Mar 31 17:03	0° $\mathbb{Z}$		superior conj	7236 Feb 06 21:55	18° $\mathbb{X}$ 41'25	-1°02'48
asc. node	7235 Apr 04 12:13	4° $\mathbb{Z}$ 49'12		minimum elong	7236 Feb 06 14:32	18° $\mathbb{X}$ 12'11	1°01'48
evening max el	7235 Apr 05 17:34	6° $\mathbb{Z}$ 07'49	18°48'10	max. Earth dist.	7236 Feb 09 22:58	23° $\mathbb{X}$ 29'03	1.45323 AU
retrograde	7235 Apr 12 10:01	9° $\mathbb{Z}$ 50'28			7236 Feb 14 02:56	0° $\mathbb{X}$	
evening set	7235 Apr 15 17:03	8° $\mathbb{Z}$ 48'09		evening rise	7236 Feb 23 03:03	13° $\mathbb{X}$ 59'05	
inferior conj	7235 Apr 21 07:37	3° $\mathbb{Z}$ 07'29	3°26'31		7236 Mar 04 12:53	0° $\mathbb{Y}$	
minimum elong	7235 Apr 21 07:35	3° $\mathbb{Z}$ 07'35	3°26'28	greatest brilliancy	7236 Mar 07 04:47	4° $\mathbb{Y}$ 00'46	-0.7m
min. Earth dist.	7235 Apr 23 02:53	0° $\mathbb{Z}$ 53'20	0.65608 AU	evening max el	7236 Mar 19 00:30	19° $\mathbb{Y}$ 43'15	19°35'03
	7235 Apr 23 20:42	30° $\mathbb{R}$ $\mathbb{Y}$		asc. node	7236 Mar 21 09:15	21° $\mathbb{Y}$ 51'15	
morning rise	7235 Apr 26 21:34	26° $\mathbb{Y}$ 51'00		retrograde	7236 Mar 26 07:25	23° $\mathbb{Y}$ 53'51	
direct	7235 May 03 09:59	24° $\mathbb{Y}$ 03'06		evening set	7236 Mar 29 22:17	22° $\mathbb{Y}$ 37'15	
desc. node	7235 May 09 17:56	26° $\mathbb{Y}$ 09'24		inferior conj	7236 Apr 04 08:15	16° $\mathbb{Y}$ 41'40	3°19'49
	7235 May 14 16:23	0° $\mathbb{Z}$		minimum elong	7236 Apr 04 07:03	16° $\mathbb{Y}$ 45'35	3°19'40
morning max el	7235 May 16 14:22	1° $\mathbb{Z}$ 51'16	26°49'21	min. Earth dist.	7236 Apr 05 12:34	15° $\mathbb{Y}$ 08'05	0.66928 AU
	7235 Jun 06 16:09	0° $\mathbb{I}$		morning rise	7236 Apr 09 15:32	10° $\mathbb{Y}$ 24'46	
morning set	7235 Jun 21 09:59	25° $\mathbb{I}$ 41'49		direct	7236 Apr 15 17:32	7° $\mathbb{Y}$ 42'11	
	7235 Jun 23 15:25	0° $\mathbb{Z}$		desc. node	7236 Apr 25 14:57	12° $\mathbb{Y}$ 46'21	
max. Earth dist.	7235 Jun 25 16:36	4° $\mathbb{Z}$ 03'33	1.34195 AU	morning max el	7236 Apr 28 00:09	15° $\mathbb{Y}$ 03'08	25°36'51
					7236 May 10 06:09	0° $\mathbb{Z}$	
superior conj	7235 Jun 30 00:49	12° $\mathbb{Z}$ 56'26	-0°14'38		7236 May 29 12:27	0° $\mathbb{I}$	
minimum elong	7235 Jun 30 01:37	13° $\mathbb{Z}$ 00'36	0°14'32	morning set	7236 Jun 03 03:39	8° $\mathbb{I}$ 13'46	
behind sun begin	7235 Jun 29 23:10	12° $\mathbb{Z}$ 47'53		max. Earth dist.	7236 Jun 06 21:06	15° $\mathbb{I}$ 09'29	1.35936 AU
behind sun end	7235 Jun 30 04:04	13° $\mathbb{Z}$ 13'20					
asc. node	7235 Jul 01 11:23	15° $\mathbb{Z}$ 57'15		superior conj	7236 Jun 12 16:54	26° $\mathbb{I}$ 31'36	-0°45'33
evening rise	7235 Jul 07 11:16	28° $\mathbb{Z}$ 35'46		minimum elong	7236 Jun 12 19:34	26° $\mathbb{I}$ 44'57	0°45'08
	7235 Jul 08 03:26	0° $\mathbb{Q}$			7236 Jun 14 10:16	0° $\mathbb{Z}$	
	7235 Jul 26 09:18	0° $\mathbb{M}$		asc. node	7236 Jun 17 08:24	5° $\mathbb{Z}$ 57'57	
evening max el	7235 Jul 27 04:11	0° $\mathbb{M}$ 47'50	21°19'52	evening rise	7236 Jun 20 17:32	12° $\mathbb{Z}$ 53'36	
desc. node	7235 Aug 05 17:07	6° $\mathbb{M}$ 31'38			7236 Jun 29 17:00	0° $\mathbb{Q}$	
retrograde	7235 Aug 08 06:38	6° $\mathbb{M}$ 47'31		evening max el	7236 Jul 08 10:35	11° $\mathbb{Q}$ 51'09	20°01'31

retrograde	7236 Jul 18 20:55	16°♎58'58		evening set	7237 Jul 01 23:05	27°♏46'08	
evening set	7236 Jul 20 18:15	16°♎49'37		desc. node	7237 Jul 09 11:14	24°♏05'50	
desc. node	7236 Jul 22 14:10	16°♎23'47		inferior conj	7237 Jul 10 06:44	23°♏32'27	-0°14'43
inferior conj	7236 Jul 29 19:07	12°♎50'11	-2°10'30	minimum elong	7237 Jul 10 06:07	23°♏33'31	0°14'34
minimum elong	7236 Jul 29 13:05	12°♎59'14	2°08'19	transit middle	7237 Jul 10 06:07	23°♏33'31	0°14'34
min. Earth dist.	7236 Jul 31 15:08	11°♎44'04	0.55109 AU	transit begin	7237 Jul 10 04:31	23°♏36'16	
morning rise	7236 Aug 07 06:16	8°♎33'13		transit end	7237 Jul 10 07:42	23°♏30'46	
direct	7236 Aug 11 14:50	7°♎51'45		min. Earth dist.	7237 Jul 13 05:46	21°♏30'43	0.56395 AU
morning max el	7236 Aug 25 07:29	14°♎35'48	24°09'39	morning rise	7237 Jul 18 09:57	18°♏39'59	
	7236 Sep 06 09:25	0°♏		direct	7237 Jul 23 15:31	17°♏35'47	
asc. node	7236 Sep 13 07:47	12°♏12'50		morning max el	7237 Aug 06 20:56	24°♏54'19	25°48'34
morning set	7236 Sep 19 01:54	23°♏55'01			7237 Aug 11 14:15	0°♎	
	7236 Sep 21 21:45	0°♎			7237 Aug 30 07:43	0°♏	
				asc. node	7237 Aug 31 04:47	1°♏45'37	
superior conj	7236 Sep 25 24:00	8°♎55'22	1°37'51	morning set	7237 Sep 03 13:11	8°♏42'55	
minimum elong	7236 Sep 25 22:42	8°♎48'23	1°37'48				
max. Earth dist.	7236 Sep 28 02:50	13°♎30'04	1.32927 AU	superior conj	7237 Sep 10 10:42	23°♏46'51	1°28'02
evening rise	7236 Oct 03 09:39	24°♎32'29		minimum elong	7237 Sep 10 08:43	23°♏35'51	1°27'49
	7236 Oct 06 03:40	0°♏		max. Earth dist.	7237 Sep 11 09:45	25°♏53'51	1.32128 AU
desc. node	7236 Oct 18 13:12	21°♏49'01			7237 Sep 13 06:43	0°♎	
	7236 Oct 24 00:21	0°♏		evening rise	7237 Sep 17 10:59	8°♎54'48	
evening max el	7236 Nov 06 00:28	15°♏35'57	27°27'31		7237 Sep 28 12:21	0°♏	
retrograde	7236 Nov 19 16:18	22°♏54'24		desc. node	7237 Oct 05 10:16	11°♏06'33	
evening set	7236 Nov 26 17:33	20°♏20'31		evening max el	7237 Oct 19 08:58	28°♏19'04	27°19'24
min. Earth dist.	7236 Nov 30 11:14	17°♏04'34	0.63708 AU		7237 Oct 21 05:59	0°♏	
inferior conj	7236 Dec 03 01:22	14°♏26'06	-2°23'04	retrograde	7237 Nov 02 04:52	5°♏31'51	
minimum elong	7236 Dec 03 05:46	14°♏14'52	2°21'16	evening set	7237 Nov 09 07:32	3°♏11'49	
morning rise	7236 Dec 09 19:41	9°♏07'07		min. Earth dist.	7237 Nov 12 23:30	0°♏21'56	0.61813 AU
asc. node	7236 Dec 10 07:09	8°♏56'58			7237 Nov 13 09:28	30°♏	
direct	7236 Dec 12 05:51	8°♏38'18		inferior conj	7237 Nov 15 23:25	27°♏39'14	-3°30'32
morning max el	7236 Dec 18 18:53	12°♏02'27	17°49'38	minimum elong	7237 Nov 16 05:44	27°♏24'54	3°28'23
	7236 Dec 31 01:52	0°♏		morning rise	7237 Nov 23 06:00	22°♏38'47	
morning set	7237 Jan 04 08:11	7°♏18'43		direct	7237 Nov 25 12:28	22°♏16'36	
desc. node	7237 Jan 14 12:26	24°♏32'33		asc. node	7237 Nov 27 04:11	22°♏28'47	
				morning max el	7237 Dec 02 10:55	25°♏47'17	17°51'55
superior conj	7237 Jan 16 22:31	28°♏31'25	-0°17'20		7237 Dec 06 00:23	0°♏	
minimum elong	7237 Jan 16 20:36	28°♏23'37	0°16'58	morning set	7237 Dec 18 05:25	20°♏26'48	
	7237 Jan 17 20:14	0°♏			7237 Dec 23 13:04	0°♏	
max. Earth dist.	7237 Jan 22 17:11	7°♏50'29	1.44523 AU	superior conj	7237 Dec 29 00:49	9°♏35'45	0°24'19
evening rise	7237 Feb 01 14:13	23°♏16'00		minimum elong	7237 Dec 29 02:57	9°♏44'54	0°24'06
	7237 Feb 06 00:05	0°♏		desc. node	7238 Jan 01 09:25	15°♏17'43	
	7237 Feb 27 02:15	0°♏		max. Earth dist.	7238 Jan 05 08:17	21°♏50'10	1.43094 AU
evening max el	7237 Mar 02 02:13	3°♏20'36	20°36'35		7238 Jan 10 10:14	0°♏	
asc. node	7237 Mar 08 06:18	7°♏46'56		evening rise	7238 Jan 12 05:49	2°♏51'24	
retrograde	7237 Mar 10 05:50	8°♏07'18			7238 Jan 30 11:14	0°♏	
evening set	7237 Mar 14 05:45	6°♏35'46		evening max el	7238 Feb 12 22:34	16°♏59'11	21°49'16
inferior conj	7237 Mar 19 13:37	0°♏27'25	3°01'27	retrograde	7238 Feb 22 03:22	22°♏26'25	
minimum elong	7237 Mar 19 11:39	0°♏34'07	3°01'04	asc. node	7238 Feb 23 03:23	22°♏21'13	
	7237 Mar 19 21:36	30°♏		evening set	7238 Feb 26 13:42	20°♏39'32	
min. Earth dist.	7237 Mar 20 04:08	29°♏37'35	0.67806 AU	inferior conj	7238 Mar 03 21:29	14°♏21'01	2°33'12
morning rise	7237 Mar 24 17:20	24°♏12'27		minimum elong	7238 Mar 03 19:12	14°♏28'59	2°32'36
direct	7237 Mar 30 06:19	21°♏44'25		min. Earth dist.	7238 Mar 03 23:21	14°♏14'33	0.68252 AU
morning max el	7237 Apr 10 08:56	28°♏23'03	24°10'51	morning rise	7238 Mar 09 00:31	8°♏09'29	
	7237 Apr 11 21:58	0°♏		direct	7238 Mar 13 23:19	6°♏01'48	
desc. node	7237 Apr 12 11:56	0°♏38'12		morning max el	7238 Mar 23 19:03	11°♏49'44	22°41'17
	7237 May 03 23:38	0°♏		desc. node	7238 Mar 30 08:55	19°♏23'39	
morning set	7237 May 16 01:31	19°♏47'09			7238 Apr 07 05:53	0°♏	
max. Earth dist.	7237 May 19 17:56	26°♏16'38	1.38033 AU	morning set	7238 Apr 26 21:51	0°♏06'38	
	7237 May 21 19:17	0°♏			7238 Apr 26 20:14	0°♏	
superior conj	7237 May 26 21:12	9°♏30'07	-1°16'24	max. Earth dist.	7238 May 01 14:37	7°♏58'52	1.40270 AU
minimum elong	7237 May 27 01:44	9°♏51'46	1°15'46				
asc. node	7237 Jun 04 05:26	25°♏49'56		superior conj	7238 May 09 09:25	21°♏40'44	-1°44'08
evening rise	7237 Jun 04 17:33	26°♏49'40		minimum elong	7238 May 09 14:58	22°♏05'56	1°43'37
	7237 Jun 06 08:18	0°♏			7238 May 13 21:47	0°♏	
evening max el	7237 Jun 21 05:40	23°♏38'59	19°03'06	evening rise	7238 May 19 08:04	10°♏14'56	
retrograde	7237 Jun 30 00:05	27°♏58'11		asc. node	7238 May 22 02:29	15°♏27'59	

	7238 May 30 13:10	0°☿			7239 May 06 06:22	0°♊		
evening max el	7238 Jun 04 10:22	6°☿04'42	18°25'14	asc. node	7239 May 08 23:34	4°♊46'57		
retrograde	7238 Jun 11 22:27	9°☿49'03		evening max el	7239 May 18 20:59	18°♊59'37	18°07'24	
evening set	7238 Jun 14 04:03	9°☿30'05		retrograde	7239 May 25 14:32	22°♊25'09		
inferior conj	7238 Jun 21 15:43	4°☿56'18	1°20'32	evening set	7239 May 28 03:24	21°♊56'14		
minimum elong	7238 Jun 21 18:19	4°☿51'03	1°19'34	inferior conj	7239 Jun 03 21:26	17°♊02'05	2°26'41	
min. Earth dist.	7238 Jun 25 01:11	2°☿12'48	0.58313 AU	minimum elong	7239 Jun 04 00:35	16°♊54'41	2°25'49	
desc. node	7238 Jun 26 08:17	1°☿15'26		min. Earth dist.	7239 Jun 07 03:52	13°♊59'02	0.60524 AU	
	7238 Jun 28 06:48	30°♋♊		morning rise	7239 Jun 10 19:14	11°♊09'15		
morning rise	7238 Jun 29 05:17	29°♊29'03		desc. node	7239 Jun 13 05:19	9°♊52'56		
direct	7238 Jul 05 06:04	27°♊54'15		direct	7239 Jun 17 09:03	9°♊02'17		
	7238 Jul 12 10:40	0°☿		morning max el	7239 Jul 01 16:44	16°♊59'11	27°47'40	
morning max el	7238 Jul 19 15:24	5°☿36'18	27°05'10		7239 Jul 12 10:55	0°☿		
	7238 Aug 06 16:13	0°♊			7239 Jul 30 07:00	0°♊		
asc. node	7238 Aug 18 01:48	21°♊34'17		morning set	7239 Aug 03 03:45	7°♊47'45		
morning set	7238 Aug 18 22:24	23°♊22'13		asc. node	7239 Aug 04 22:50	11°♊33'36		
	7238 Aug 22 00:30	0°♎		max. Earth dist.	7239 Aug 09 06:11	20°♊52'35	1.31846 AU	
superior conj	7238 Aug 25 22:32	8°♎38'15	1°13'08	superior conj	7239 Aug 10 09:43	23°♊24'06	0°53'34	
minimum elong	7238 Aug 25 20:16	8°♎25'42	1°12'45	minimum elong	7239 Aug 10 07:39	23°♊12'45	0°53'07	
max. Earth dist.	7238 Aug 25 20:09	8°♎25'04	1.31767 AU		7239 Aug 13 09:25	0°♎		
evening rise	7238 Sep 01 17:54	23°♎30'44		evening rise	7239 Aug 17 04:10	8°♎13'43		
	7238 Sep 04 20:56	0°♊			7239 Aug 28 08:54	0°♊		
desc. node	7238 Sep 22 07:21	29°♊38'09		desc. node	7239 Sep 09 04:25	17°♊05'23		
	7238 Sep 22 13:48	0°♌		evening max el	7239 Sep 13 05:20	21°♊22'34	25°24'33	
evening max el	7238 Oct 01 11:10	10°♌16'17	26°37'31	retrograde	7239 Sep 27 03:21	28°♊25'17		
retrograde	7238 Oct 15 09:01	17°♌23'43		evening set	7239 Oct 03 01:29	27°♊04'17		
evening set	7238 Oct 22 03:48	15°♌28'32		min. Earth dist.	7239 Oct 07 17:09	24°♊25'41	0.57708 AU	
min. Earth dist.	7238 Oct 26 00:53	12°♌53'08	0.59747 AU	inferior conj	7239 Oct 10 17:43	22°♊21'13	-5°17'13	
inferior conj	7238 Oct 29 06:00	10°♌20'53	-4°32'23	minimum elong	7239 Oct 10 22:10	22°♊13'33	5°16'41	
minimum elong	7238 Oct 29 12:54	10°♌07'12	4°30'41	morning rise	7239 Oct 18 21:11	18°♊05'54		
morning rise	7238 Nov 06 00:14	5°♌42'21		direct	7239 Oct 21 07:33	17°♊48'03		
direct	7238 Nov 08 06:35	5°♌23'41		morning max el	7239 Oct 30 02:00	21°♊59'04	18°56'19	
asc. node	7238 Nov 14 01:13	7°♌32'26		asc. node	7239 Oct 31 22:15	23°♊55'10		
morning max el	7238 Nov 15 22:29	9°♌09'33	18°13'38		7239 Nov 05 10:14	0°♌		
	7238 Nov 29 10:56	0°♌		morning set	7239 Nov 15 15:24	18°♌32'56		
morning set	7238 Dec 01 17:22	4°♌16'08			7239 Nov 21 11:05	0°♌		
superior conj	7238 Dec 11 03:26	21°♌50'19	0°57'23	superior conj	7239 Nov 24 01:18	5°♌00'05	1°20'48	
minimum elong	7238 Dec 11 06:59	22°♌06'24	0°56'59	minimum elong	7239 Nov 24 04:28	5°♌15'12	1°20'32	
	7238 Dec 15 17:39	0°♍		max. Earth dist.	7239 Dec 01 00:29	17°♌52'22	1.39066 AU	
max. Earth dist.	7238 Dec 18 18:35	5°♍13'23	1.41198 AU	evening rise	7239 Dec 04 21:16	24°♌37'42		
desc. node	7238 Dec 19 06:27	6°♍03'35		desc. node	7239 Dec 06 03:28	26°♌46'09		
evening rise	7238 Dec 23 14:29	13°♍14'52			7239 Dec 08 01:48	0°♍		
	7239 Jan 03 08:00	0°♍			7239 Dec 28 01:53	0°♍		
	7239 Jan 25 22:49	0°♋		evening max el	7240 Jan 09 03:59	14°♍23'59	24°27'45	
evening max el	7239 Jan 26 14:32	0°♋40'06	23°08'17	retrograde	7240 Jan 20 14:12	21°♍05'18		
retrograde	7239 Feb 05 22:34	6°♋47'30		evening set	7240 Jan 26 00:48	18°♍49'11		
asc. node	7239 Feb 10 00:27	5°♋24'11		asc. node	7240 Jan 27 21:30	16°♍58'53		
evening set	7239 Feb 10 20:35	4°♋45'26		min. Earth dist.	7240 Jan 30 16:00	13°♍31'56	0.67933 AU	
	7239 Feb 15 00:49	30°♋♋		inferior conj	7240 Jan 31 13:10	12°♍21'07	1°11'19	
inferior conj	7239 Feb 16 05:57	28°♋20'03	1°56'15	minimum elong	7240 Jan 31 11:35	12°♍26'25	1°10'47	
minimum elong	7239 Feb 16 03:47	28°♋27'34	1°55'34	morning rise	7240 Feb 05 22:30	6°♍20'30		
min. Earth dist.	7239 Feb 15 20:04	28°♋54'11	0.68286 AU	direct	7240 Feb 09 17:53	4°♍57'35		
morning rise	7239 Feb 21 10:55	22°♋13'15		morning max el	7240 Feb 17 08:37	9°♋15'23	20°03'25	
direct	7239 Feb 25 19:33	20°♋28'12		desc. node	7240 Mar 03 02:51	28°♋40'19		
morning max el	7239 Mar 06 10:08	25°♋26'47	21°16'49		7240 Mar 04 00:25	0°♋		
	7239 Mar 10 12:20	0°♋		morning set	7240 Mar 15 12:34	17°♋26'30		
desc. node	7239 Mar 17 05:53	8°♋48'03			7240 Mar 23 13:36	0°♋		
	7239 Mar 31 16:48	0°♋		max. Earth dist.	7240 Mar 26 01:52	3°♋59'25	1.44030 AU	
morning set	7239 Apr 06 14:29	9°♋09'55		superior conj	7240 Mar 31 15:17	12°♋58'12	-2°10'58	
max. Earth dist.	7239 Apr 13 16:49	20°♋34'23	1.42355 AU	minimum elong	7240 Mar 31 14:34	12°♋55'14	2°10'58	
	7239 Apr 19 08:19	0°♌			7240 Apr 10 19:32	0°♌		
superior conj	7239 Apr 21 00:44	2°♌52'41	-2°04'16	evening rise	7240 Apr 13 16:08	4°♌54'16		
minimum elong	7239 Apr 21 05:00	3°♌11'00	2°04'06	asc. node	7240 Apr 24 20:37	23°♌39'46		
evening rise	7239 May 02 09:10	23°♌00'07			7240 Apr 29 09:30	0°♊		

evening max el	7240 May 01 10:03	2° $\Pi$ 14'29	18°08'54			7241 Mar 16 06:06	0° $\Upsilon$	
retrograde	7240 May 07 19:51	5° $\Pi$ 36'03		evening rise		7241 Mar 26 00:53	15° $\Upsilon$ 50'36	
evening set	7240 May 10 15:47	4° $\Pi$ 55'06				7241 Apr 03 16:55	0° $\mathcal{B}$	
inferior conj	7240 May 16 20:08	29° $\mathcal{B}$ 41'56	3°06'06	asc. node		7241 Apr 11 17:39	11° $\mathcal{B}$ 58'03	
minimum elong	7240 May 16 22:19	29° $\mathcal{B}$ 36'05	3°05'41	evening max el		7241 Apr 14 22:34	15° $\mathcal{B}$ 41'29	18°28'51
	7240 May 16 13:21	30° $\mathcal{R}\mathcal{B}$		retrograde		7241 Apr 21 10:06	19° $\mathcal{B}$ 12'38	
min. Earth dist.	7240 May 19 15:19	26° $\mathcal{B}$ 43'23	0.62713 AU	evening set		7241 Apr 24 13:01	18° $\mathcal{B}$ 18'19	
morning rise	7240 May 23 03:16	23° $\mathcal{B}$ 34'16		inferior conj		7241 Apr 30 07:37	12° $\mathcal{B}$ 47'25	3°24'01
direct	7240 May 29 22:18	21° $\mathcal{B}$ 01'46		minimum elong		7241 Apr 30 08:22	12° $\mathcal{B}$ 45'09	3°23'55
desc. node	7240 May 30 02:19	21° $\mathcal{B}$ 01'51		min. Earth dist.		7241 May 02 11:53	10° $\mathcal{B}$ 13'10	0.64658 AU
morning max el	7240 Jun 12 23:30	29° $\mathcal{B}$ 04'26	27°52'05	morning rise		7241 May 06 02:55	6° $\mathcal{B}$ 32'53	
	7240 Jun 13 21:15	0° $\Pi$		direct		7241 May 12 19:37	3° $\mathcal{B}$ 46'45	
	7240 Jul 05 08:39	0° $\mathcal{E}$		desc. node		7241 May 16 23:19	4° $\mathcal{B}$ 41'19	
morning set	7240 Jul 17 03:08	21° $\mathcal{E}$ 53'18		morning max el		7241 May 26 09:05	11° $\mathcal{B}$ 43'38	27°20'51
	7240 Jul 21 01:12	0° $\Omega$				7241 Jun 09 21:35	0° $\Pi$	
asc. node	7240 Jul 21 19:51	1° $\Omega$ 39'00				7241 Jun 27 20:57	0° $\mathcal{E}$	
max. Earth dist.	7240 Jul 22 11:54	3° $\Omega$ 04'43	1.32380 AU	morning set		7241 Jun 30 17:47	5° $\mathcal{E}$ 30'04	
				max. Earth dist.		7241 Jul 05 09:27	14° $\mathcal{E}$ 50'32	1.33391 AU
superior conj	7240 Jul 24 18:25	7° $\Omega$ 59'02	0°29'49					
minimum elong	7240 Jul 24 17:04	7° $\Omega$ 51'43	0°29'27	superior conj		7241 Jul 08 22:35	22° $\mathcal{E}$ 15'55	0°02'27
evening rise	7240 Jul 31 15:52	22° $\Omega$ 57'54		minimum elong		7241 Jul 08 22:28	22° $\mathcal{E}$ 15'18	0°02'21
	7240 Aug 04 00:38	0° $\mathcal{N}$		behind sun begin		7241 Jul 08 17:01	21° $\mathcal{E}$ 46'21	
	7240 Aug 22 22:34	0° $\mathcal{A}$		behind sun end		7241 Jul 09 03:56	22° $\mathcal{E}$ 44'17	
evening max el	7240 Aug 24 17:42	1° $\mathcal{A}$ 50'00	23°51'00	asc. node		7241 Jul 08 16:51	21° $\mathcal{E}$ 45'30	
desc. node	7240 Aug 26 01:29	3° $\mathcal{A}$ 03'26				7241 Jul 12 13:26	0° $\Omega$	
retrograde	7240 Sep 07 09:55	8° $\mathcal{A}$ 41'24		evening rise		7241 Jul 16 03:01	7° $\Omega$ 36'33	
evening set	7240 Sep 11 22:47	7° $\mathcal{A}$ 56'11				7241 Jul 27 22:38	0° $\mathcal{N}$	
min. Earth dist.	7240 Sep 18 04:07	4° $\mathcal{A}$ 55'38	0.55997 AU	evening max el		7241 Aug 06 07:17	12° $\mathcal{N}$ 06'45	22°12'41
inferior conj	7240 Sep 20 09:15	3° $\mathcal{A}$ 35'08	-5°28'00	desc. node		7241 Aug 12 22:32	16° $\mathcal{N}$ 59'45	
minimum elong	7240 Sep 20 07:25	3° $\mathcal{A}$ 37'56	5°27'56	retrograde		7241 Aug 19 03:53	18° $\mathcal{N}$ 30'14	
	7240 Sep 27 11:57	30° $\mathcal{R}\mathcal{N}$		evening set		7241 Aug 22 05:07	18° $\mathcal{N}$ 09'38	
morning rise	7240 Sep 28 18:18	29° $\mathcal{N}$ 38'58		min. Earth dist.		7241 Aug 30 13:05	14° $\mathcal{N}$ 32'46	0.54939 AU
direct	7240 Oct 01 13:07	29° $\mathcal{N}$ 19'19		inferior conj		7241 Aug 31 07:57	14° $\mathcal{N}$ 06'14	-4°48'01
	7240 Oct 05 10:11	0° $\mathcal{A}$		minimum elong		7241 Aug 30 23:42	14° $\mathcal{N}$ 17'50	4°46'24
morning max el	7240 Oct 11 18:13	4° $\mathcal{A}$ 06'19	20°01'09	morning rise		7241 Sep 08 19:55	10° $\mathcal{N}$ 17'31	
asc. node	7240 Oct 17 19:15	11° $\mathcal{A}$ 21'44		direct		7241 Sep 12 02:55	9° $\mathcal{N}$ 53'16	
	7240 Oct 28 06:56	0° $\mathcal{M}$		morning max el		7241 Sep 23 21:33	15° $\mathcal{N}$ 24'39	21°27'14
morning set	7240 Oct 29 20:11	3° $\mathcal{M}$ 08'08		asc. node		7241 Oct 04 16:14	29° $\mathcal{N}$ 37'03	
						7241 Oct 04 21:41	0° $\mathcal{A}$	
superior conj	7240 Nov 06 13:22	18° $\mathcal{M}$ 50'46	1°35'09	morning set		7241 Oct 14 05:10	17° $\mathcal{A}$ 53'39	
minimum elong	7240 Nov 06 15:20	19° $\mathcal{M}$ 00'33	1°35'04			7241 Oct 19 23:14	0° $\mathcal{M}$	
	7240 Nov 12 06:49	0° $\mathcal{X}$						
max. Earth dist.	7240 Nov 12 06:19	29° $\mathcal{M}$ 57'39	1.36962 AU	superior conj		7241 Oct 21 11:26	3° $\mathcal{M}$ 09'15	1°41'31
evening rise	7240 Nov 16 01:17	6° $\mathcal{X}$ 57'48		minimum elong		7241 Oct 21 11:59	3° $\mathcal{M}$ 12'08	1°41'34
desc. node	7240 Nov 22 00:31	17° $\mathcal{X}$ 21'39		max. Earth dist.		7241 Oct 25 17:28	11° $\mathcal{M}$ 50'42	1.35096 AU
	7240 Nov 29 21:50	0° $\mathcal{Z}$		evening rise		7241 Oct 29 22:44	20° $\mathcal{M}$ 04'29	
evening max el	7240 Dec 21 16:55	28° $\mathcal{Z}$ 10'31	25°40'41			7241 Nov 04 08:51	0° $\mathcal{X}$	
	7240 Dec 23 16:02	0° $\approx$		desc. node		7241 Nov 08 21:35	7° $\mathcal{X}$ 44'29	
retrograde	7241 Jan 03 01:13	5° $\approx$ 14'59				7241 Nov 23 21:47	0° $\mathcal{Z}$	
evening set	7241 Jan 09 00:44	2° $\approx$ 47'08		evening max el		7241 Dec 04 06:09	11° $\mathcal{Z}$ 53'35	26°39'48
	7241 Jan 11 18:53	30° $\mathcal{R}\mathcal{Z}$		retrograde		7241 Dec 17 06:46	19° $\mathcal{Z}$ 09'42	
min. Earth dist.	7241 Jan 13 08:56	28° $\mathcal{Z}$ 04'19	0.67211 AU	evening set		7241 Dec 23 18:33	16° $\mathcal{Z}$ 34'12	
asc. node	7241 Jan 13 18:31	27° $\mathcal{Z}$ 34'00		min. Earth dist.		7241 Dec 27 20:26	12° $\mathcal{Z}$ 26'15	0.66124 AU
inferior conj	7241 Jan 14 17:18	26° $\mathcal{Z}$ 21'24	0°19'02	inferior conj		7241 Dec 29 16:18	10° $\mathcal{Z}$ 16'20	-0°39'54
minimum elong	7241 Jan 14 16:48	26° $\mathcal{Z}$ 22'57	0°18'55	minimum elong		7241 Dec 29 17:25	10° $\mathcal{Z}$ 13'01	0°39'21
morning rise	7241 Jan 20 09:19	20° $\mathcal{Z}$ 28'54		asc. node		7241 Dec 31 15:32	8° $\mathcal{Z}$ 00'32	
direct	7241 Jan 23 16:56	19° $\mathcal{Z}$ 25'41		morning rise		7242 Jan 04 17:09	4° $\mathcal{Z}$ 34'32	
morning max el	7241 Jan 30 14:54	23° $\mathcal{Z}$ 14'17	19°04'38	direct		7242 Jan 07 14:48	3° $\mathcal{Z}$ 47'36	
	7241 Feb 05 06:27	0° $\approx$		morning max el		7242 Jan 14 03:29	7° $\mathcal{Z}$ 18'33	18°22'09
greatest brilliancy	7241 Feb 13 10:48	11° $\approx$ 55'03	-0.8m			7242 Jan 30 00:37	0° $\approx$	
desc. node	7241 Feb 17 23:50	18° $\approx$ 53'10		morning set		7242 Feb 02 19:53	6° $\approx$ 05'09	
morning set	7241 Feb 22 15:34	26° $\approx$ 05'56		desc. node		7242 Feb 04 20:51	9° $\approx$ 20'51	
	7241 Feb 25 03:49	0° $\mathcal{H}$				7242 Feb 17 22:13	0° $\mathcal{H}$	
max. Earth dist.	7241 Mar 08 17:02	18° $\mathcal{H}$ 02'40	1.45106 AU					
superior conj	7241 Mar 11 06:41	22° $\mathcal{H}$ 05'37	-1°58'45	superior conj		7242 Feb 18 10:55	0° $\mathcal{H}$ 49'48	-1°27'07
minimum elong	7241 Mar 10 23:16	21° $\mathcal{H}$ 36'18	1°58'17	minimum elong		7242 Feb 18 01:32	0° $\mathcal{H}$ 12'59	1°26'05
				max. Earth dist.		7242 Feb 19 12:14	2° $\mathcal{H}$ 28'58	1.45463 AU

evening rise	7242 Mar 06 10:29	25° $\text{K}$ 52'17		minimum elong	7243 Jan 28 18:23	9° $\approx$ 43'10	0°42'44
	7242 Mar 09 01:30	0° $\text{Y}$		max. Earth dist.	7243 Feb 02 08:06	16° $\approx$ 58'54	1.45070 AU
greatest brilliancy	7242 Mar 16 20:11	12° $\text{Y}$ 09'51	-0.8m		7243 Feb 10 16:18	0° $\text{K}$	
evening max el	7242 Mar 29 08:08	29° $\text{Y}$ 15'14	19°06'15	evening rise	7243 Feb 14 02:23	5° $\text{K}$ 16'34	
asc. node	7242 Mar 29 14:41	29° $\text{Y}$ 31'38		greatest brilliancy	7243 Feb 28 15:40	27° $\text{K}$ 17'31	-0.6m
	7242 Mar 30 02:29	0° $\text{B}$			7243 Mar 02 12:23	0° $\text{Y}$	
retrograde	7242 Apr 05 05:42	3° $\text{B}$ 08'09		evening max el	7243 Mar 12 12:56	12° $\text{Y}$ 51'21	19°59'36
evening set	7242 Apr 08 16:02	1° $\text{B}$ 59'40		asc. node	7243 Mar 16 11:44	16° $\text{Y}$ 07'13	
	7242 Apr 10 23:47	30° $\text{K}$ $\text{Y}$		retrograde	7243 Mar 20 03:51	17° $\text{Y}$ 16'26	
inferior conj	7242 Apr 14 04:19	26° $\text{Y}$ 12'31	3°25'15	evening set	7243 Mar 23 22:29	15° $\text{Y}$ 53'18	
minimum elong	7242 Apr 14 03:45	26° $\text{Y}$ 14'20	3°25'10	inferior conj	7243 Mar 29 07:15	9° $\text{Y}$ 51'47	3°13'18
min. Earth dist.	7242 Apr 15 17:05	24° $\text{Y}$ 15'05	0.66225 AU	minimum elong	7243 Mar 29 05:41	9° $\text{Y}$ 57'03	3°13'04
morning rise	7242 Apr 19 15:03	19° $\text{Y}$ 55'48		min. Earth dist.	7243 Mar 30 05:26	8° $\text{Y}$ 37'03	0.67356 AU
direct	7242 Apr 25 23:33	17° $\text{Y}$ 08'55		morning rise	7243 Apr 03 12:40	3° $\text{Y}$ 35'37	
desc. node	7242 May 03 20:18	20° $\text{Y}$ 22'46		direct	7243 Apr 09 09:16	0° $\text{Y}$ 58'38	
morning max el	7242 May 08 19:14	24° $\text{Y}$ 46'36	26°20'54	desc. node	7243 Apr 20 17:18	7° $\text{Y}$ 34'24	
	7242 May 13 12:33	0° $\text{B}$		morning max el	7243 Apr 21 04:38	8° $\text{Y}$ 02'46	25°01'24
	7242 Jun 03 08:30	0° $\text{II}$			7243 May 08 08:53	0° $\text{B}$	
morning set	7242 Jun 13 20:21	18° $\text{II}$ 28'47			7243 May 26 21:56	0° $\text{II}$	
max. Earth dist.	7242 Jun 17 20:28	26° $\text{II}$ 09'07	1.34883 AU	morning set	7243 May 27 06:14	0° $\text{II}$ 36'55	
	7242 Jun 19 19:09	0° $\text{E}$		max. Earth dist.	7243 May 30 21:22	7° $\text{II}$ 12'46	1.36798 AU
superior conj	7242 Jun 22 19:54	6° $\text{E}$ 08'26	-0°27'36	superior conj	7243 Jun 06 07:23	19° $\text{II}$ 28'21	-0°58'48
minimum elong	7242 Jun 22 21:28	6° $\text{E}$ 16'26	0°27'21	minimum elong	7243 Jun 06 10:53	19° $\text{II}$ 45'31	0°58'16
asc. node	7242 Jun 25 13:53	11° $\text{E}$ 49'34			7243 Jun 11 13:48	0° $\text{E}$	
evening rise	7242 Jun 30 11:43	22° $\text{E}$ 03'55		asc. node	7243 Jun 12 10:54	1° $\text{E}$ 46'40	
	7242 Jul 04 09:40	0° $\text{O}$		evening rise	7243 Jun 14 15:40	6° $\text{E}$ 13'01	
evening max el	7242 Jul 19 06:11	22° $\text{O}$ 46'18	20°44'18		7243 Jun 28 04:25	0° $\text{O}$	
retrograde	7242 Jul 30 15:58	28° $\text{O}$ 24'20		evening max el	7243 Jul 01 18:01	4° $\text{O}$ 07'13	19°34'05
desc. node	7242 Jul 30 19:33	28° $\text{O}$ 24'16		retrograde	7243 Jul 11 10:47	8° $\text{O}$ 53'41	
evening set	7242 Aug 01 18:30	28° $\text{O}$ 13'36		evening set	7243 Jul 13 07:38	8° $\text{O}$ 43'49	
inferior conj	7242 Aug 11 00:37	24° $\text{O}$ 16'38	-3°16'54	desc. node	7243 Jul 17 16:35	7° $\text{O}$ 12'50	
minimum elong	7242 Aug 10 16:02	24° $\text{O}$ 28'53	3°14'07	inferior conj	7243 Jul 22 01:57	4° $\text{O}$ 39'06	-1°20'06
min. Earth dist.	7242 Aug 11 22:44	23° $\text{O}$ 45'04	0.54772 AU	minimum elong	7243 Jul 21 22:19	4° $\text{O}$ 44'53	1°18'46
morning rise	7242 Aug 19 13:26	20° $\text{O}$ 16'06		min. Earth dist.	7243 Jul 24 11:12	3° $\text{O}$ 08'32	0.55554 AU
direct	7242 Aug 23 11:31	19° $\text{O}$ 43'12		morning rise	7243 Jul 30 10:34	0° $\text{O}$ 07'45	
morning max el	7242 Sep 05 14:31	26° $\text{O}$ 01'17	23°08'52		7243 Jul 30 19:58	30° $\text{K}$ $\text{E}$	
	7242 Sep 09 09:12	0° $\text{M}$		direct	7243 Aug 04 03:40	29° $\text{E}$ 18'08	
asc. node	7242 Sep 21 13:15	18° $\text{M}$ 29'38			7243 Aug 08 10:38	0° $\text{O}$	
	7242 Sep 27 09:05	0° $\text{A}$		morning max el	7243 Aug 18 03:27	6° $\text{O}$ 18'05	24°53'40
morning set	7242 Sep 28 16:23	2° $\text{A}$ 44'08			7243 Sep 04 06:27	0° $\text{M}$	
				asc. node	7243 Sep 08 10:17	7° $\text{M}$ 49'52	
superior conj	7242 Oct 05 16:19	17° $\text{A}$ 46'34	1°40'58	morning set	7243 Sep 13 04:07	17° $\text{M}$ 34'28	
minimum elong	7242 Oct 05 15:37	17° $\text{A}$ 42'47	1°40'59		7243 Sep 18 21:17	0° $\text{A}$	
max. Earth dist.	7242 Oct 08 13:00	23° $\text{A}$ 51'24	1.33599 AU				
	7242 Oct 11 12:20	0° $\text{M}$		superior conj	7243 Sep 20 01:32	2° $\text{A}$ 34'53	1°34'21
evening rise	7242 Oct 13 09:42	3° $\text{M}$ 47'37		minimum elong	7243 Sep 19 23:54	2° $\text{A}$ 25'56	1°34'14
desc. node	7242 Oct 26 18:37	27° $\text{M}$ 48'41		max. Earth dist.	7243 Sep 21 16:22	6° $\text{A}$ 06'44	1.32528 AU
	7242 Oct 28 03:34	0° $\text{J}$		evening rise	7243 Sep 27 06:38	17° $\text{A}$ 57'54	
evening max el	7242 Nov 16 18:55	25° $\text{J}$ 22'54	27°17'45		7243 Oct 03 10:01	0° $\text{M}$	
	7242 Nov 22 12:06	0° $\text{B}$		desc. node	7243 Oct 13 15:39	17° $\text{M}$ 26'28	
retrograde	7242 Nov 30 06:13	2° $\text{B}$ 41'51			7243 Oct 22 14:37	0° $\text{J}$	
evening set	7242 Dec 07 03:58	0° $\text{B}$ 04'45		evening max el	7243 Oct 30 05:29	8° $\text{J}$ 26'15	27°28'01
	7242 Dec 07 06:27	30° $\text{K}$ $\text{J}$		retrograde	7243 Nov 12 23:13	15° $\text{J}$ 42'50	
min. Earth dist.	7242 Dec 11 00:13	26° $\text{J}$ 30'56	0.64688 AU	evening set	7243 Nov 20 02:11	13° $\text{J}$ 13'07	
inferior conj	7242 Dec 13 07:51	24° $\text{J}$ 00'26	-1°44'20	min. Earth dist.	7243 Nov 23 18:27	10° $\text{J}$ 09'39	0.62934 AU
minimum elong	7242 Dec 13 10:59	23° $\text{J}$ 51'55	1°42'58	inferior conj	7243 Nov 26 13:15	7° $\text{J}$ 27'32	-2°51'52
asc. node	7242 Dec 18 12:35	19° $\text{J}$ 14'01		minimum elong	7243 Nov 26 18:32	7° $\text{J}$ 14'40	2°49'50
morning rise	7242 Dec 19 19:24	18° $\text{J}$ 32'20		morning rise	7243 Dec 03 12:48	2° $\text{J}$ 16'22	
direct	7242 Dec 22 09:08	17° $\text{J}$ 57'56		asc. node	7243 Dec 05 09:38	1° $\text{J}$ 51'53	
morning max el	7242 Dec 28 19:53	21° $\text{J}$ 21'38	17°56'32	direct	7243 Dec 05 21:01	1° $\text{J}$ 50'49	
	7243 Jan 04 12:03	0° $\text{B}$		morning max el	7243 Dec 12 13:05	5° $\text{J}$ 16'26	17°48'22
morning set	7243 Jan 15 05:38	17° $\text{B}$ 31'35		morning set	7243 Dec 28 15:52	0° $\text{B}$ 08'41	
desc. node	7243 Jan 22 17:50	29° $\text{B}$ 58'21			7243 Dec 28 13:54	0° $\text{B}$	
	7243 Jan 22 18:15	0° $\approx$					
superior conj	7243 Jan 28 23:30	10° $\approx$ 03'39	-0°43'31	superior conj	7244 Jan 09 10:54	20° $\text{B}$ 25'39	0°01'12
				minimum elong	7244 Jan 09 11:03	20° $\text{B}$ 26'13	0°01'16

behind sun begin	7244 Jan 09 01:51	19° $\text{Z}$ 47'51		superior conj	7244 Dec 21 00:07	2° $\text{Z}$ 01'36	0°39'29
behind sun end	7244 Jan 09 20:14	21° $\text{Z}$ 04'30		minimum elong	7244 Dec 21 03:08	2° $\text{Z}$ 14'52	0°39'08
desc. node	7244 Jan 09 14:52	20° $\text{Z}$ 42'11		desc. node	7244 Dec 26 11:51	11° $\text{Z}$ 27'58	
	7244 Jan 15 07:04	0° $\approx$		max. Earth dist.	7244 Dec 28 13:54	14° $\text{Z}$ 56'54	1.42332 AU
max. Earth dist.	7244 Jan 16 01:17	1° $\approx$ 13'17	1.43983 AU	evening rise	7245 Jan 03 11:21	24° $\text{Z}$ 30'17	
evening rise	7244 Jan 24 13:36	14° $\approx$ 37'01			7245 Jan 06 23:22	0° $\approx$	
	7244 Feb 03 17:34	0° $\text{H}$			7245 Jan 27 17:07	0° $\text{H}$	
evening max el	7244 Feb 23 12:12	26° $\text{H}$ 28'42	21°06'18	evening max el	7245 Feb 05 06:29	10° $\text{H}$ 07'57	22°22'24
	7244 Feb 27 15:35	0° $\text{Y}$		retrograde	7245 Feb 14 23:04	15° $\text{H}$ 53'03	
asc. node	7244 Mar 02 08:48	1° $\text{Y}$ 30'08		asc. node	7245 Feb 17 05:53	15° $\text{H}$ 26'15	
retrograde	7244 Mar 03 02:16	1° $\text{Y}$ 32'53		evening set	7245 Feb 19 14:05	13° $\text{H}$ 59'53	
evening set	7244 Mar 07 06:23	29° $\text{H}$ 54'49		inferior conj	7245 Feb 24 22:22	7° $\text{H}$ 37'55	2°18'32
	7244 Mar 07 03:44	30° $\text{R}$ $\text{H}$		minimum elong	7245 Feb 24 20:04	7° $\text{H}$ 45'54	2°17'54
inferior conj	7244 Mar 12 13:59	23° $\text{H}$ 41'30	2°50'34	min. Earth dist.	7245 Feb 24 19:13	7° $\text{H}$ 48'55	0.68317 AU
minimum elong	7244 Mar 12 11:50	23° $\text{H}$ 48'56	2°50'06	morning rise	7245 Mar 02 01:54	1° $\text{H}$ 27'56	
min. Earth dist.	7244 Mar 12 22:56	23° $\text{H}$ 10'27	0.68048 AU		7245 Mar 04 08:46	30° $\text{R}$ $\approx$	
morning rise	7244 Mar 17 17:04	17° $\text{H}$ 27'38		direct	7245 Mar 06 18:35	29° $\approx$ 29'39	
direct	7244 Mar 22 23:56	15° $\text{H}$ 07'57			7245 Mar 09 07:54	0° $\text{H}$	
morning max el	7244 Apr 02 13:47	21° $\text{H}$ 26'03	23°32'33	morning max el	7245 Mar 16 01:32	4° $\text{H}$ 56'22	22°04'09
desc. node	7244 Apr 06 14:18	25° $\text{H}$ 51'12		desc. node	7245 Mar 24 11:17	14° $\text{H}$ 54'40	
	7244 Apr 09 23:21	0° $\text{Y}$			7245 Apr 04 04:50	0° $\text{Y}$	
	7244 Apr 30 15:22	0° $\text{B}$		morning set	7245 Apr 18 02:16	21° $\text{Y}$ 26'24	
morning set	7244 May 07 17:52	11° $\text{B}$ 40'12			7245 Apr 23 07:25	0° $\text{B}$	
max. Earth dist.	7244 May 11 17:04	18° $\text{B}$ 30'10	1.38984 AU	max. Earth dist.	7245 Apr 23 15:03	0° $\text{B}$ 31'53	1.41190 AU
	7244 May 18 02:04	0° $\text{II}$					
				superior conj	7245 May 01 09:17	13° $\text{B}$ 54'06	-1°53'56
superior conj	7244 May 19 05:21	2° $\text{II}$ 06'59	-1°28'47	minimum elong	7245 May 01 14:40	14° $\text{B}$ 18'00	1°53'33
minimum elong	7244 May 19 10:29	2° $\text{II}$ 31'02	1°28'10		7245 May 10 05:26	0° $\text{II}$	
evening rise	7244 May 28 12:05	19° $\text{II}$ 56'34		evening rise	7245 May 11 21:26	3° $\text{II}$ 05'53	
asc. node	7244 May 29 07:57	21° $\text{II}$ 32'50		asc. node	7245 May 16 05:00	11° $\text{II}$ 03'28	
	7244 Jun 02 18:58	0° $\text{E}$		evening max el	7245 May 28 01:22	28° $\text{II}$ 51'26	18°15'20
evening max el	7244 Jun 13 17:35	16° $\text{E}$ 11'26	18°44'29		7245 May 29 07:47	0° $\text{E}$	
retrograde	7244 Jun 21 21:56	20° $\text{E}$ 14'06		retrograde	7245 Jun 04 04:03	2° $\text{E}$ 25'32	
evening set	7244 Jun 23 23:17	19° $\text{E}$ 59'42		evening set	7245 Jun 06 12:49	2° $\text{E}$ 02'38	
inferior conj	7244 Jul 01 22:24	15° $\text{E}$ 37'57	0°29'05		7245 Jun 10 09:15	30° $\text{R}$ $\text{II}$	
minimum elong	7244 Jul 01 23:30	15° $\text{E}$ 35'54	0°28'36	inferior conj	7245 Jun 13 16:35	27° $\text{II}$ 20'26	1°52'07
desc. node	7244 Jul 03 13:38	14° $\text{E}$ 25'09		minimum elong	7245 Jun 13 19:40	27° $\text{II}$ 13'45	1°51'06
min. Earth dist.	7244 Jul 05 03:55	13° $\text{E}$ 15'47	0.57146 AU	min. Earth dist.	7245 Jun 17 02:19	24° $\text{II}$ 25'23	0.59238 AU
morning rise	7244 Jul 09 20:14	10° $\text{E}$ 29'29		desc. node	7245 Jun 20 10:40	21° $\text{II}$ 59'58	
direct	7244 Jul 15 10:21	9° $\text{E}$ 12'48		morning rise	7245 Jun 20 23:28	21° $\text{II}$ 41'04	
morning max el	7244 Jul 29 18:42	16° $\text{E}$ 43'36	26°24'53	direct	7245 Jun 27 06:58	19° $\text{II}$ 51'54	
	7244 Aug 09 16:04	0° $\text{O}$		morning max el	7245 Jul 11 15:56	27° $\text{II}$ 41'37	27°27'48
asc. node	7244 Aug 25 07:18	27° $\text{O}$ 29'44			7245 Jul 13 21:23	0° $\text{E}$	
	7244 Aug 26 12:19	0° $\text{P}$			7245 Aug 03 07:59	0° $\text{O}$	
morning set	7244 Aug 27 14:42	2° $\text{P}$ 18'54		morning set	7245 Aug 11 22:29	16° $\text{O}$ 52'55	
				asc. node	7245 Aug 12 04:19	17° $\text{O}$ 23'31	
superior conj	7244 Sep 03 12:56	17° $\text{P}$ 26'49	1°22'20		7245 Aug 18 00:00	0° $\text{P}$	
minimum elong	7244 Sep 03 10:47	17° $\text{P}$ 14'51	1°22'02	max. Earth dist.	7245 Aug 18 11:33	1° $\text{P}$ 03'48	1.31741 AU
max. Earth dist.	7244 Sep 04 00:58	18° $\text{P}$ 33'20	1.31907 AU				
	7244 Sep 09 06:56	0° $\text{A}$		superior conj	7245 Aug 19 00:43	2° $\text{P}$ 16'45	1°05'23
evening rise	7244 Sep 10 10:35	2° $\text{A}$ 26'19		minimum elong	7245 Aug 18 22:29	2° $\text{P}$ 04'21	1°04'58
	7244 Sep 25 06:59	0° $\text{M}$		evening rise	7245 Aug 25 19:11	17° $\text{P}$ 06'13	
desc. node	7244 Sep 29 12:43	6° $\text{M}$ 26'17			7245 Sep 01 03:35	0° $\text{A}$	
evening max el	7244 Oct 11 11:28	20° $\text{M}$ 50'32	27°05'49	desc. node	7245 Sep 16 09:47	24° $\text{A}$ 33'00	
retrograde	7244 Oct 25 08:48	28° $\text{M}$ 01'56			7245 Sep 21 00:29	0° $\text{M}$	
evening set	7244 Nov 01 09:19	25° $\text{M}$ 50'57		evening max el	7245 Sep 23 10:30	2° $\text{M}$ 26'29	26°10'01
min. Earth dist.	7244 Nov 05 02:07	23° $\text{M}$ 09'05	0.60937 AU	retrograde	7245 Oct 07 09:03	9° $\text{M}$ 31'53	
inferior conj	7244 Nov 08 05:11	20° $\text{M}$ 28'27	-3°58'01	evening set	7245 Oct 13 20:30	7° $\text{M}$ 50'45	
minimum elong	7244 Nov 08 12:00	20° $\text{M}$ 13'48	3°55'56	min. Earth dist.	7245 Oct 17 23:36	5° $\text{M}$ 16'03	0.58857 AU
morning rise	7244 Nov 15 16:56	15° $\text{M}$ 37'11		inferior conj	7245 Oct 21 04:05	2° $\text{M}$ 53'38	-4°54'24
direct	7244 Nov 17 22:42	15° $\text{M}$ 17'00		minimum elong	7245 Oct 21 10:25	2° $\text{M}$ 41'47	4°53'10
asc. node	7244 Nov 21 06:42	16° $\text{M}$ 03'40			7245 Oct 25 09:30	30° $\text{R}$ $\text{A}$	
morning max el	7244 Nov 25 03:45	18° $\text{M}$ 53'18	17°58'41	morning rise	7245 Oct 29 02:37	28° $\text{A}$ 24'39	
	7244 Dec 03 05:31	0° $\text{X}$		direct	7245 Oct 31 10:01	28° $\text{A}$ 06'41	
morning set	7244 Dec 10 20:03	13° $\text{X}$ 36'09			7245 Nov 06 00:42	0° $\text{M}$	
	7244 Dec 19 20:33	0° $\text{Z}$		asc. node	7245 Nov 08 03:43	1° $\text{M}$ 42'16	
				morning max el	7245 Nov 08 12:15	2° $\text{M}$ 02'25	18°29'04

morning set	7245 Nov 24 12:46	27° $\mathbb{M}$ 38'22		morning set	7246 Nov 08 14:00	12° $\mathbb{M}$ 03'44	
	7245 Nov 25 18:10	0° $\mathbb{X}$					
superior conj	7245 Dec 03 11:32	14° $\mathbb{X}$ 40'56	1°08'27	superior conj	7246 Nov 16 15:57	28° $\mathbb{M}$ 09'08	1°27'55
minimum elong	7245 Dec 03 15:05	14° $\mathbb{X}$ 57'22	1°08'06	minimum elong	7246 Nov 16 18:40	28° $\mathbb{M}$ 22'21	1°27'45
max. Earth dist.	7245 Dec 10 21:59	28° $\mathbb{X}$ 00'48	1.40312 AU		7246 Nov 17 14:47	0° $\mathbb{X}$	
	7245 Dec 12 01:41	0° $\mathbb{Z}$		max. Earth dist.	7246 Nov 23 03:38	10° $\mathbb{X}$ 24'48	1.38156 AU
desc. node	7245 Dec 13 08:53	2° $\mathbb{Z}$ 12'43		evening rise	7246 Nov 26 21:24	17° $\mathbb{X}$ 06'23	
evening rise	7245 Dec 15 05:18	5° $\mathbb{Z}$ 18'50		desc. node	7246 Nov 30 05:55	22° $\mathbb{X}$ 52'34	
	7245 Dec 31 03:28	0° $\approx$			7246 Dec 04 13:39	0° $\mathbb{Z}$	
evening max el	7246 Jan 18 21:18	23° $\approx$ 50'37	23°42'27	evening max el	7246 Dec 25 14:15	0° $\approx$	
	7246 Jan 27 22:48	0° $\mathbb{H}$			7247 Jan 01 10:28	7° $\approx$ 36'29	24°59'59
retrograde	7246 Jan 29 16:46	0° $\mathbb{H}$ 12'59		retrograde	7247 Jan 13 06:23	14° $\approx$ 28'21	
	7246 Jan 31 09:01	30° $\mathbb{R}$ $\approx$		evening set	7247 Jan 18 22:37	12° $\approx$ 06'48	
evening set	7246 Feb 03 20:00	28° $\approx$ 04'58		asc. node	7247 Jan 21 23:57	8° $\approx$ 54'31	
asc. node	7246 Feb 04 02:56	27° $\approx$ 49'53		min. Earth dist.	7247 Jan 23 10:44	7° $\approx$ 04'23	0.67675 AU
min. Earth dist.	7246 Feb 08 15:54	22° $\approx$ 28'03	0.68190 AU	inferior conj	7247 Jan 24 12:39	5° $\approx$ 39'22	0°50'03
inferior conj	7246 Feb 09 06:32	21° $\approx$ 38'06	1°38'09	minimum elong	7247 Jan 24 11:28	5° $\approx$ 43'14	0°49'39
minimum elong	7246 Feb 09 04:33	21° $\approx$ 44'53	1°37'30		7247 Jan 29 14:44	30° $\mathbb{R}$ $\mathbb{Z}$	
morning rise	7246 Feb 14 13:03	15° $\approx$ 33'36		morning rise	7247 Jan 30 00:34	29° $\mathbb{Z}$ 42'07	
direct	7246 Feb 18 16:00	13° $\approx$ 57'55		direct	7247 Feb 02 14:50	28° $\mathbb{Z}$ 27'51	
morning max el	7246 Feb 26 19:25	18° $\approx$ 37'30	20°43'50		7247 Feb 06 21:36	0° $\approx$	
	7246 Mar 08 02:35	0° $\mathbb{H}$		morning max el	7247 Feb 09 21:21	2° $\approx$ 31'16	19°36'34
desc. node	7246 Mar 11 08:16	4° $\mathbb{H}$ 31'53		greatest brilliancy	7247 Feb 22 17:06	19° $\approx$ 19'52	-0.7m
morning set	7246 Mar 28 08:48	0° $\mathbb{Y}$ 02'38		desc. node	7247 Feb 26 05:16	24° $\approx$ 33'57	
	7246 Mar 28 08:08	0° $\mathbb{Y}$			7247 Mar 01 19:18	0° $\mathbb{H}$	
max. Earth dist.	7246 Apr 05 20:14	13° $\mathbb{Y}$ 29'46	1.43138 AU	morning set	7247 Mar 07 05:59	8° $\mathbb{H}$ 20'53	
				max. Earth dist.	7247 Mar 19 08:54	27° $\mathbb{H}$ 16'02	1.44577 AU
					7247 Mar 21 02:10	0° $\mathbb{Y}$	
superior conj	7246 Apr 12 14:23	24° $\mathbb{Y}$ 38'16	-2°09'08				
minimum elong	7246 Apr 12 16:59	24° $\mathbb{Y}$ 49'14	2°09'05	superior conj	7247 Mar 23 18:27	4° $\mathbb{Y}$ 17'09	-2°08'17
	7246 Apr 15 18:18	0° $\mathbb{B}$		minimum elong	7247 Mar 23 14:45	4° $\mathbb{Y}$ 02'18	2°08'11
evening rise	7246 Apr 24 15:20	15° $\mathbb{B}$ 30'04		evening rise	7247 Apr 06 13:21	27° $\mathbb{Y}$ 00'53	
	7246 May 02 23:11	0° $\mathbb{H}$			7247 Apr 08 07:52	0° $\mathbb{B}$	
asc. node	7246 May 03 02:03	0° $\mathbb{H}$ 11'51		asc. node	7247 Apr 19 23:05	18° $\mathbb{B}$ 51'09	
evening max el	7246 May 11 13:28	11° $\mathbb{H}$ 55'54	18°05'45	evening max el	7247 Apr 25 02:38	25° $\mathbb{B}$ 16'42	18°15'03
retrograde	7246 May 18 02:16	15° $\mathbb{H}$ 17'39		retrograde	7247 May 01 12:01	28° $\mathbb{B}$ 40'51	
evening set	7246 May 20 18:18	14° $\mathbb{H}$ 43'39		evening set	7247 May 04 10:55	27° $\mathbb{B}$ 54'14	
inferior conj	7246 May 27 05:59	9° $\mathbb{H}$ 41'08	2°46'23	inferior conj	7247 May 10 10:38	22° $\mathbb{B}$ 33'00	3°16'01
minimum elong	7246 May 27 08:50	9° $\mathbb{H}$ 34'02	2°45'42	minimum elong	7247 May 10 12:14	22° $\mathbb{B}$ 28'31	3°15'46
min. Earth dist.	7246 May 30 08:18	6° $\mathbb{H}$ 37'29	0.61478 AU	min. Earth dist.	7247 May 12 23:34	19° $\mathbb{B}$ 43'04	0.63585 AU
morning rise	7246 Jun 02 21:19	3° $\mathbb{H}$ 41'10		morning rise	7247 May 16 12:22	16° $\mathbb{B}$ 21'34	
desc. node	7246 Jun 07 07:41	1° $\mathbb{H}$ 38'01		direct	7247 May 23 07:04	13° $\mathbb{B}$ 42'04	
direct	7246 Jun 09 14:30	1° $\mathbb{H}$ 22'14		desc. node	7247 May 25 04:41	13° $\mathbb{B}$ 53'25	
morning max el	7246 Jun 23 19:36	9° $\mathbb{H}$ 21'50	27°54'12	morning max el	7247 Jun 06 04:04	21° $\mathbb{B}$ 43'14	27°42'50
	7246 Jul 09 18:10	0° $\mathbb{E}$			7247 Jun 13 09:20	0° $\mathbb{H}$	
	7246 Jul 26 11:50	0° $\mathbb{O}$			7247 Jul 02 22:06	0° $\mathbb{E}$	
morning set	7246 Jul 27 01:31	1° $\mathbb{O}$ 09'58		morning set	7247 Jul 10 21:31	15° $\mathbb{E}$ 03'51	
asc. node	7246 Jul 30 01:19	7° $\mathbb{O}$ 25'26		max. Earth dist.	7247 Jul 15 23:08	25° $\mathbb{E}$ 28'30	1.32758 AU
max. Earth dist.	7246 Aug 01 20:14	13° $\mathbb{O}$ 25'55	1.32021 AU	asc. node	7247 Jul 16 22:19	27° $\mathbb{E}$ 31'22	
					7247 Jul 18 02:08	0° $\mathbb{O}$	
superior conj	7246 Aug 03 11:01	16° $\mathbb{O}$ 58'03	0°43'58				
minimum elong	7246 Aug 03 09:12	16° $\mathbb{O}$ 48'04	0°43'33	superior conj	7247 Jul 18 18:01	1° $\mathbb{O}$ 25'23	0°18'35
	7246 Aug 09 09:47	0° $\mathbb{N}$		minimum elong	7247 Jul 18 17:08	1° $\mathbb{O}$ 20'36	0°18'19
evening rise	7246 Aug 10 06:16	1° $\mathbb{N}$ 50'05		evening rise	7247 Jul 25 17:57	16° $\mathbb{O}$ 32'15	
	7246 Aug 25 10:38	0° $\mathbb{E}$			7247 Aug 01 09:27	0° $\mathbb{N}$	
desc. node	7246 Sep 03 06:50	11° $\mathbb{E}$ 25'10		evening max el	7247 Aug 17 13:17	23° $\mathbb{N}$ 30'29	23°08'36
evening max el	7246 Sep 05 01:43	13° $\mathbb{E}$ 13'23	24°46'25	desc. node	7247 Aug 21 03:52	26° $\mathbb{N}$ 34'59	
retrograde	7246 Sep 18 22:02	20° $\mathbb{E}$ 11'45			7247 Aug 28 14:10	0° $\mathbb{E}$	
evening set	7246 Sep 24 07:25	19° $\mathbb{E}$ 06'36		retrograde	7247 Aug 30 22:53	0° $\mathbb{E}$ 12'46	
min. Earth dist.	7246 Sep 29 12:55	16° $\mathbb{E}$ 20'52	0.56924 AU		7247 Sep 02 08:22	30° $\mathbb{R}$ $\mathbb{N}$	
inferior conj	7246 Oct 02 07:06	14° $\mathbb{E}$ 33'45	-5°27'05	evening set	7247 Sep 03 20:12	29° $\mathbb{N}$ 39'40	
minimum elong	7246 Oct 02 09:16	14° $\mathbb{E}$ 30'13	5°26'58	min. Earth dist.	7247 Sep 10 22:11	26° $\mathbb{N}$ 25'22	0.55449 AU
morning rise	7246 Oct 10 13:20	10° $\mathbb{E}$ 27'17		inferior conj	7247 Sep 12 14:30	25° $\mathbb{N}$ 26'48	-5°17'51
direct	7246 Oct 13 03:03	10° $\mathbb{E}$ 08'48		minimum elong	7247 Sep 12 09:32	25° $\mathbb{N}$ 34'02	5°17'19
morning max el	7246 Oct 22 11:07	14° $\mathbb{E}$ 33'42	19°21'12	morning rise	7247 Sep 21 01:04	21° $\mathbb{N}$ 36'15	
asc. node	7246 Oct 26 00:43	18° $\mathbb{E}$ 33'12		direct	7247 Sep 24 00:47	21° $\mathbb{N}$ 15'02	
	7246 Nov 02 07:37	0° $\mathbb{M}$		morning max el	7247 Oct 04 21:48	26° $\mathbb{N}$ 19'33	20°35'32

	7247 Oct 08 07:50	0°♄		inferior conj	7248 Aug 22 09:01	5°♄46'01	-4°14'39
asc. node	7247 Oct 12 21:43	6°♄21'34		minimum elong	7248 Aug 21 23:43	5°♄59'02	4°12'16
morning set	7247 Oct 23 20:48	26°♄43'38		min. Earth dist.	7248 Aug 22 07:27	5°♄48'12	0.54742 AU
	7247 Oct 25 10:50	0°♄		morning rise	7248 Aug 30 21:41	1°♄54'43	
				direct	7248 Sep 03 10:19	1°♄27'42	
superior conj	7247 Oct 31 08:41	12°♄12'36	1°38'46	morning max el	7248 Sep 15 20:23	7°♄19'35	22°09'15
minimum elong	7247 Oct 31 10:02	12°♄19'31	1°38'46	asc. node	7248 Sep 28 18:44	24°♄54'14	
max. Earth dist.	7247 Nov 05 11:10	22°♄21'50	1.36120 AU		7248 Oct 01 13:28	0°♄	
evening rise	7247 Nov 09 09:13	29°♄46'38		morning set	7248 Oct 07 06:58	11°♄32'07	
	7247 Nov 09 12:07	0°♄					
desc. node	7247 Nov 17 02:56	13°♄22'52		superior conj	7248 Oct 14 10:02	26°♄40'42	1°42'05
	7247 Nov 27 18:30	0°♄		minimum elong	7248 Oct 14 10:02	26°♄40'39	1°42'08
evening max el	7247 Dec 14 23:18	21°♄21'32	26°07'58		7248 Oct 16 00:01	0°♄	
retrograde	7247 Dec 27 15:09	28°♄32'36		max. Earth dist.	7248 Oct 18 01:26	4°♄15'14	1.34400 AU
evening set	7248 Jan 02 20:11	26°♄00'32		evening rise	7248 Oct 22 12:55	13°♄10'25	
min. Earth dist.	7248 Jan 07 01:30	21°♄32'52	0.66789 AU		7248 Oct 31 19:31	0°♄	
inferior conj	7248 Jan 08 14:49	19°♄37'28	-0°05'11	desc. node	7248 Nov 02 23:59	3°♄38'41	
minimum elong	7248 Jan 08 14:57	19°♄37'03	0°05'03		7248 Nov 21 18:35	0°♄	
transit middle	7248 Jan 08 14:57	19°♄37'03	0°05'03	evening max el	7248 Nov 26 12:18	4°♄59'36	26°58'58
transit begin	7248 Jan 08 12:15	19°♄45'28		retrograde	7248 Dec 09 18:25	12°♄18'49	
transit end	7248 Jan 08 17:40	19°♄28'39		evening set	7248 Dec 16 10:46	9°♄41'33	
asc. node	7248 Jan 08 20:59	19°♄18'24		min. Earth dist.	7248 Dec 20 10:02	5°♄48'20	0.65549 AU
morning rise	7248 Jan 14 10:22	13°♄49'31		inferior conj	7248 Dec 22 10:58	3°♄28'27	-1°06'41
direct	7248 Jan 17 13:29	12°♄53'47		minimum elong	7248 Dec 22 12:54	3°♄22'54	1°05'47
morning max el	7248 Jan 24 06:40	16°♄33'29	18°44'39	asc. node	7248 Dec 25 18:01	29°♄58'35	
	7248 Feb 03 11:36	0°♄			7248 Dec 25 17:25	30°♄	
desc. node	7248 Feb 13 02:14	14°♄53'32		morning rise	7248 Dec 28 16:11	27°♄52'11	
morning set	7248 Feb 14 18:12	17°♄30'18		direct	7248 Dec 31 10:05	27°♄11'13	
	7248 Feb 22 17:30	0°♄			7249 Jan 06 05:10	0°♄	
max. Earth dist.	7248 Mar 01 02:12	11°♄31'30	1.45347 AU	morning max el	7249 Jan 06 21:15	0°♄38'13	18°09'09
				morning set	7249 Jan 25 11:12	28°♄07'05	
superior conj	7248 Mar 02 02:58	13°♄08'38	-1°47'27		7249 Jan 26 14:56	0°♄	
minimum elong	7248 Mar 01 17:49	12°♄32'44	1°46'40	desc. node	7249 Jan 29 23:15	5°♄25'41	
	7248 Mar 12 18:55	0°♄					
evening rise	7248 Mar 17 12:09	7°♄33'17		superior conj	7249 Feb 09 08:23	21°♄59'13	-1°09'28
greatest brilliancy	7248 Mar 24 14:29	18°♄57'41	-0.9m	minimum elong	7249 Feb 09 00:18	21°♄27'22	1°08'24
	7248 Mar 31 17:24	0°♄		max. Earth dist.	7249 Feb 11 21:21	25°♄58'50	1.45383 AU
asc. node	7248 Apr 05 20:07	6°♄51'54			7249 Feb 14 10:59	0°♄	
evening max el	7248 Apr 07 14:05	8°♄46'52	18°42'35	evening rise	7249 Feb 25 12:59	17°♄15'11	
retrograde	7248 Apr 14 05:05	12°♄26'14			7249 Mar 05 18:34	0°♄	
evening set	7248 Apr 17 10:58	11°♄26'06		greatest brilliancy	7249 Mar 09 23:34	6°♄24'51	-0.7m
inferior conj	7248 Apr 23 02:30	5°♄47'56	3°26'19	evening max el	7249 Mar 21 21:47	22°♄21'53	19°27'08
minimum elong	7248 Apr 23 02:40	5°♄47'25	3°26'16	asc. node	7249 Mar 23 17:10	24°♄02'36	
min. Earth dist.	7248 Apr 25 00:07	3°♄28'08	0.65376 AU	retrograde	7249 Mar 29 02:04	26°♄27'34	
	7248 Apr 28 05:03	30°♄		evening set	7249 Apr 01 15:43	25°♄13'07	
morning rise	7248 Apr 28 17:44	29°♄31'41		inferior conj	7249 Apr 07 02:12	19°♄19'46	3°21'35
direct	7248 May 05 07:23	26°♄43'48		minimum elong	7249 Apr 07 01:10	19°♄23'10	3°21'28
desc. node	7248 May 11 01:41	28°♄28'38		min. Earth dist.	7249 Apr 08 08:44	17°♄39'45	0.66761 AU
	7248 May 13 09:40	0°♄		morning rise	7249 Apr 12 10:17	13°♄02'51	
morning max el	7248 May 18 14:27	4°♄35'02	26°58'19	direct	7249 Apr 18 14:07	10°♄18'43	
	7248 Jun 06 21:50	0°♄		desc. node	7249 Apr 27 22:42	14°♄51'47	
morning set	7248 Jun 23 07:35	28°♄26'13		morning max el	7249 May 01 00:17	17°♄44'31	25°48'45
	7248 Jun 24 03:02	0°♄			7249 May 11 06:42	0°♄	
max. Earth dist.	7248 Jun 27 16:28	7°♄02'37	1.33967 AU		7249 May 30 21:32	0°♄	
				morning set	7249 Jun 06 03:43	11°♄05'29	
superior conj	7248 Jul 01 19:37	15°♄32'48	-0°10'04	max. Earth dist.	7249 Jun 09 22:30	18°♄10'41	1.35649 AU
minimum elong	7248 Jul 01 20:09	15°♄35'39	0°10'02				
behind sun begin	7248 Jul 01 15:42	15°♄12'18		superior conj	7249 Jun 15 13:11	29°♄12'46	-0°40'48
behind sun end	7248 Jul 02 00:37	15°♄59'00		minimum elong	7249 Jun 15 15:34	29°♄24'43	0°40'26
asc. node	7248 Jul 02 19:21	17°♄37'22			7249 Jun 15 22:33	0°♄	
	7248 Jul 08 15:37	0°♄		asc. node	7249 Jun 19 16:22	7°♄38'57	
evening rise	7248 Jul 09 04:21	1°♄06'54		evening rise	7249 Jun 23 11:21	15°♄27'19	
	7248 Jul 25 18:00	0°♄			7249 Jun 30 22:46	0°♄	
evening max el	7248 Jul 29 05:57	3°♄53'26	21°33'12	evening max el	7249 Jul 11 10:25	14°♄50'16	20°12'01
desc. node	7248 Aug 07 00:54	9°♄30'02		retrograde	7249 Jul 22 02:51	20°♄05'45	
retrograde	7248 Aug 10 13:44	9°♄59'58		evening set	7249 Jul 24 01:04	19°♄56'16	
evening set	7248 Aug 13 02:48	9°♄45'13		desc. node	7249 Jul 24 21:57	19°♄46'01	



inferior conj	7249 Aug 02 03:44	15°♌58'05	-2°28'22	desc. node	7250 Jul 11 18:59	27°♎42'41	
minimum elong	7249 Aug 01 20:55	16°♌08'10	2°25'58	inferior conj	7250 Jul 13 12:25	26°♎34'14	-0°31'21
min. Earth dist.	7249 Aug 03 18:29	15°♌00'50	0.54991 AU	minimum elong	7250 Jul 13 11:03	26°♎36'31	0°30'54
morning rise	7249 Aug 10 15:29	11°♌45'54		min. Earth dist.	7250 Jul 16 08:22	24°♎40'19	0.56159 AU
direct	7249 Aug 14 21:20	11°♌06'51		morning rise	7250 Jul 21 17:15	21°♎47'25	
morning max el	7249 Aug 28 10:45	17°♌44'32	23°53'56	direct	7250 Jul 26 19:39	20°♎47'18	
	7249 Sep 07 10:59	0°♍		morning max el	7250 Aug 09 23:49	28°♎01'03	25°34'59
asc. node	7249 Sep 15 15:46	13°♍59'32			7250 Aug 11 23:00	0°♌	
morning set	7249 Sep 21 18:37	26°♍22'51			7250 Aug 31 18:28	0°♍	
	7249 Sep 23 11:12	0°♎		asc. node	7250 Sep 02 12:48	3°♍29'01	
				morning set	7250 Sep 06 06:04	11°♍11'12	
superior conj	7249 Sep 28 17:04	11°♎23'31	1°38'52	superior conj	7250 Sep 13 03:27	26°♍13'56	1°29'53
minimum elong	7249 Sep 28 15:56	11°♎17'19	1°38'49	minimum elong	7250 Sep 13 01:32	26°♍03'23	1°29'41
max. Earth dist.	7249 Oct 01 00:22	16°♎21'09	1.33089 AU	max. Earth dist.	7250 Sep 14 06:32	28°♍42'48	1.32219 AU
evening rise	7249 Oct 06 04:34	27°♎06'24			7250 Sep 14 20:37	0°♎	
	7249 Oct 07 15:24	0°♍		evening rise	7250 Sep 20 04:51	11°♎25'28	
desc. node	7249 Oct 20 21:02	23°♍32'32			7250 Sep 29 20:31	0°♍	
	7249 Oct 25 02:30	0°♎		desc. node	7250 Oct 07 18:05	12°♍55'27	
evening max el	7249 Nov 09 00:32	18°♎19'42	27°25'56		7250 Oct 21 05:34	0°♎	
retrograde	7249 Nov 22 15:20	25°♎38'12		evening max el	7250 Oct 22 09:41	1°♎08'20	27°22'43
evening set	7249 Nov 29 15:48	23°♎03'19		retrograde	7250 Nov 05 04:58	8°♎21'51	
min. Earth dist.	7249 Dec 03 10:08	19°♎42'46	0.63973 AU	evening set	7250 Nov 12 08:03	5°♎58'58	
inferior conj	7249 Dec 05 22:34	17°♎06'09	-2°12'49	min. Earth dist.	7250 Nov 15 23:56	3°♎05'56	0.62110 AU
minimum elong	7249 Dec 06 02:38	16°♎55'35	2°11'08	inferior conj	7250 Nov 18 22:39	0°♎23'02	-3°20'30
morning rise	7249 Dec 12 15:05	11°♎44'34		minimum elong	7250 Nov 19 04:43	0°♎08'59	3°18'21
asc. node	7249 Dec 12 15:05	11°♎44'34			7250 Nov 19 08:38	30°♋	
direct	7249 Dec 15 02:06	11°♎14'24		morning rise	7250 Nov 26 03:24	25°♍19'40	
morning max el	7249 Dec 21 14:18	14°♎38'10	17°50'49	direct	7250 Nov 28 10:16	24°♍56'41	
	7250 Jan 01 09:21	0°♏		asc. node	7250 Nov 29 12:09	25°♍01'57	
morning set	7250 Jan 07 08:11	10°♏05'59		morning max el	7250 Dec 05 06:45	28°♍25'40	17°50'24
desc. node	7250 Jan 16 20:16	26°♏06'05			7250 Dec 06 17:58	0°♎	
	7250 Jan 19 05:16	0°♐		morning set	7250 Dec 21 02:47	23°♎06'36	
superior conj	7250 Jan 20 05:32	1°♐38'50	-0°24'08		7250 Dec 24 23:18	0°♏	
minimum elong	7250 Jan 20 02:49	1°♐27'47	0°23'40	superior conj	7251 Jan 01 03:59	12°♏32'08	0°18'31
max. Earth dist.	7250 Jan 25 16:14	10°♐23'25	1.44686 AU	minimum elong	7251 Jan 01 05:41	12°♏39'21	0°18'20
evening rise	7250 Feb 05 00:56	26°♐32'54		desc. node	7251 Jan 03 17:16	16°♏50'53	
	7250 Feb 07 07:03	0°♑		max. Earth dist.	7251 Jan 08 08:08	24°♏28'03	1.43341 AU
	7250 Feb 27 21:47	0°♒			7251 Jan 11 18:41	0°♐	
evening max el	7250 Mar 05 00:23	5°♒59'15	20°26'38	evening rise	7251 Jan 15 14:56	6°♐03'13	
asc. node	7250 Mar 10 14:14	10°♒09'27			7251 Jan 31 14:53	0°♑	
retrograde	7250 Mar 13 00:29	10°♒39'58		evening max el	7251 Feb 15 21:26	19°♑37'14	21°37'53
evening set	7250 Mar 16 23:00	9°♒10'35		retrograde	7251 Feb 24 22:17	24°♑58'28	
inferior conj	7250 Mar 22 07:02	3°♒04'00	3°04'51	asc. node	7251 Feb 25 11:18	24°♑56'56	
minimum elong	7250 Mar 22 05:10	3°♒10'22	3°04'32	evening set	7251 Mar 01 07:00	23°♑13'45	
min. Earth dist.	7250 Mar 22 23:30	2°♒07'44	0.67704 AU	inferior conj	7251 Mar 06 14:40	16°♑56'27	2°38'03
	7250 Mar 24 14:01	30°♋		minimum elong	7251 Mar 06 12:24	17°♑04'20	2°37'30
morning rise	7250 Mar 27 11:07	26°♋48'46		min. Earth dist.	7251 Mar 06 18:18	16°♋43'48	0.68212 AU
direct	7250 Apr 02 02:10	24°♋18'12		morning rise	7251 Mar 11 17:38	10°♋44'22	
	7250 Apr 12 07:21	0°♒		direct	7251 Mar 16 18:31	8°♋33'33	
morning max el	7250 Apr 13 09:09	1°♒03'34	24°24'09	morning max el	7251 Mar 26 18:56	14°♋29'15	22°54'30
desc. node	7250 Apr 14 19:42	2°♒33'51		desc. node	7251 Apr 01 16:42	21°♋12'08	
	7250 May 05 05:52	0°♓			7251 Apr 08 08:41	0°♒	
morning set	7250 May 19 04:54	22°♓48'23			7251 Apr 28 04:49	0°♓	
max. Earth dist.	7250 May 22 20:18	29°♓16'27	1.37711 AU	morning set	7251 Apr 30 05:20	3°♓19'24	
	7250 May 23 05:55	0°♔		max. Earth dist.	7251 May 04 16:39	10°♓51'58	1.39941 AU
superior conj	7250 May 29 19:31	12°♔17'21	-1°11'49	superior conj	7251 May 12 10:23	24°♓35'22	-1°40'18
minimum elong	7250 May 29 23:48	12°♔37'56	1°11'13	minimum elong	7251 May 12 15:53	25°♓00'34	1°39'44
asc. node	7250 Jun 06 13:25	27°♔32'27			7251 May 15 08:38	0°♔	
evening rise	7250 Jun 07 12:32	29°♔27'11		evening rise	7251 May 22 04:41	12°♔57'28	
	7250 Jun 07 19:09	0°♕		asc. node	7251 May 24 10:27	17°♔12'43	
evening max el	7250 Jun 24 03:44	26°♕31'05	19°10'24		7251 May 31 14:44	0°♕	
	7250 Jun 28 23:10	0°♌		evening max el	7251 Jun 07 07:10	8°♕51'18	18°29'32
retrograde	7250 Jul 03 03:34	0°♌56'52		retrograde	7251 Jun 14 23:09	12°♕40'02	
evening set	7250 Jul 05 01:52	0°♌45'30		evening set	7251 Jun 17 03:35	12°♕22'24	
	7250 Jul 07 13:31	30°♋					

inferior conj	7251 Jun 24 18:09	7°♄51'38	1°07'53	minimum elong	7252 Jun 06 00:09	19°♄44'05	2°17'32
minimum elong	7251 Jun 24 20:27	7°♄47'06	1°07'01	min. Earth dist.	7252 Jun 09 04:35	16°♄49'32	0.60186 AU
min. Earth dist.	7251 Jun 28 03:01	5°♄13'02	0.58000 AU	morning rise	7252 Jun 12 21:04	14°♄01'38	
desc. node	7251 Jun 28 16:01	4°♄48'59		desc. node	7252 Jun 14 13:03	13°♄07'05	
morning rise	7251 Jul 02 09:57	2°♄28'54		direct	7252 Jun 19 09:29	11°♄59'03	
direct	7251 Jul 08 08:03	0°♄58'59		morning max el	7252 Jul 03 17:45	19°♄54'45	27°43'45
morning max el	7251 Jul 22 17:27	8°♄38'24	26°55'48		7252 Jul 12 08:36	0°♄	
	7251 Aug 07 21:40	0°♄			7252 Jul 30 17:54	0°♄	
asc. node	7251 Aug 20 09:49	23°♄15'41		morning set	7252 Aug 04 21:42	10°♄20'06	
morning set	7251 Aug 21 15:42	25°♄52'11		asc. node	7252 Aug 06 06:47	13°♄13'38	
	7251 Aug 23 14:05	0°♄		max. Earth dist.	7252 Aug 11 02:50	23°♄41'51	1.31801 AU
superior conj	7251 Aug 28 15:14	11°♄05'44	1°15'42	superior conj	7252 Aug 12 02:35	25°♄52'51	0°56'49
minimum elong	7251 Aug 28 12:59	10°♄53'15	1°15'21	minimum elong	7252 Aug 12 00:28	25°♄41'08	0°56'23
max. Earth dist.	7251 Aug 28 16:36	11°♄13'21	1.31786 AU		7252 Aug 13 23:18	0°♄	
evening rise	7251 Sep 04 11:03	25°♄59'41		evening rise	7252 Aug 18 20:55	10°♄41'58	
	7251 Sep 06 09:04	0°♄			7252 Aug 28 15:46	0°♄	
	7251 Sep 23 12:04	0°♄		desc. node	7252 Sep 10 12:10	19°♄13'31	
desc. node	7251 Sep 24 15:07	1°♄35'06		evening max el	7252 Sep 15 08:15	24°♄26'30	25°37'10
evening max el	7251 Oct 04 12:54	13°♄12'51	26°45'55		7252 Sep 23 01:04	0°♄	
retrograde	7251 Oct 18 10:36	20°♄21'28		retrograde	7252 Sep 29 06:43	1°♄30'18	
evening set	7251 Oct 25 07:20	18°♄21'43		evening set	7252 Oct 05 08:38	0°♄03'56	
min. Earth dist.	7251 Oct 29 02:50	15°♄45'19	0.60054 AU		7252 Oct 05 12:01	30°♄	
inferior conj	7251 Nov 01 07:46	13°♄10'13	-4°23'48	min. Earth dist.	7252 Oct 09 20:25	27°♄26'55	0.57995 AU
minimum elong	7251 Nov 01 14:45	12°♄56'07	4°21'59	inferior conj	7252 Oct 12 22:27	25°♄17'11	-5°12'13
morning rise	7251 Nov 09 00:25	8°♄28'29		minimum elong	7252 Oct 13 03:32	25°♄08'14	5°11'31
direct	7251 Nov 11 06:29	8°♄09'30		morning rise	7252 Oct 21 00:46	20°♄58'25	
asc. node	7251 Nov 16 09:12	9°♄52'42		direct	7252 Oct 23 10:07	20°♄40'40	
morning max el	7251 Nov 18 19:16	11°♄52'30	18°09'07	morning max el	7252 Nov 01 00:11	24°♄47'33	18°48'33
	7251 Nov 30 20:36	0°♄		asc. node	7252 Nov 02 06:12	26°♄04'20	
morning set	7251 Dec 04 12:53	6°♄51'00			7252 Nov 05 10:00	0°♄	
				morning set	7252 Nov 17 09:38	21°♄04'16	
superior conj	7251 Dec 14 03:20	24°♄37'37	0°52'58		7252 Nov 21 23:01	0°♄	
minimum elong	7251 Dec 14 06:49	24°♄53'14	0°52'34	superior conj	7252 Nov 25 22:39	7°♄40'01	1°17'49
	7251 Dec 17 03:59	0°♄		minimum elong	7252 Nov 26 01:57	7°♄55'40	1°17'32
desc. node	7251 Dec 21 14:17	7°♄37'03		max. Earth dist.	7252 Dec 03 01:13	20°♄41'45	1.39391 AU
max. Earth dist.	7251 Dec 21 19:02	7°♄57'05	1.41501 AU	evening rise	7252 Dec 07 00:03	27°♄32'44	
evening rise	7251 Dec 26 20:35	16°♄18'35		desc. node	7252 Dec 07 11:18	28°♄20'22	
	7252 Jan 04 14:33	0°♄			7252 Dec 08 10:59	0°♄	
	7252 Jan 26 12:33	0°♄			7252 Dec 28 03:45	0°♄	
evening max el	7252 Jan 29 13:53	3°♄17'27	22°56'16	evening max el	7253 Jan 11 03:36	17°♄01'03	24°16'07
retrograde	7252 Feb 08 17:58	9°♄19'24		retrograde	7253 Jan 22 10:11	23°♄37'56	
asc. node	7252 Feb 12 08:22	8°♄13'58		evening set	7253 Jan 27 18:49	21°♄23'54	
evening set	7252 Feb 13 14:07	7°♄19'35		asc. node	7253 Jan 29 05:24	20°♄00'59	
inferior conj	7252 Feb 18 23:10	0°♄54'50	2°02'24	min. Earth dist.	7253 Feb 01 11:13	16°♄01'26	0.68013 AU
minimum elong	7252 Feb 18 20:57	1°♄02'31	2°01'43	inferior conj	7253 Feb 02 06:40	14°♄55'55	1°18'41
min. Earth dist.	7252 Feb 18 14:58	1°♄23'10	0.68309 AU	minimum elong	7253 Feb 02 04:58	15°♄01'41	1°18'05
	7252 Feb 19 15:04	30°♄		morning rise	7253 Feb 07 15:12	8°♄54'08	
morning rise	7252 Feb 24 03:41	24°♄47'08		direct	7253 Feb 11 12:29	7°♄27'56	
direct	7252 Feb 28 14:20	22°♄58'44		morning max el	7253 Feb 19 06:19	11°♄51'10	20°13'23
morning max el	7252 Mar 08 09:04	28°♄04'28	21°28'42	desc. node	7253 Mar 05 10:41	0°♄20'04	
	7252 Mar 10 04:54	0°♄			7253 Mar 05 05:11	0°♄	
desc. node	7252 Mar 18 13:41	10°♄31'18		morning set	7253 Mar 19 01:23	20°♄52'29	
	7252 Mar 31 23:34	0°♄			7253 Mar 24 21:47	0°♄	
morning set	7252 Apr 09 01:49	12°♄32'49		max. Earth dist.	7253 Mar 29 01:21	6°♄35'28	1.43816 AU
max. Earth dist.	7252 Apr 15 17:29	23°♄17'45	1.42065 AU				
	7252 Apr 19 17:49	0°♄		superior conj	7253 Apr 03 23:23	16°♄11'50	-2°11'04
superior conj	7252 Apr 23 05:01	5°♄56'05	-2°01'58	minimum elong	7253 Apr 03 23:38	16°♄12'53	2°11'05
minimum elong	7252 Apr 23 09:42	6°♄16'21	2°01'43		7253 Apr 12 04:41	0°♄	
evening rise	7252 May 04 08:00	25°♄48'46		evening rise	7253 Apr 16 17:56	7°♄51'02	
	7252 May 06 15:13	0°♄		asc. node	7253 Apr 27 04:29	25°♄31'55	
asc. node	7252 May 10 07:28	6°♄34'38			7253 Apr 30 04:25	0°♄	
evening max el	7252 May 20 17:07	21°♄42'18	18°08'52	evening max el	7253 May 04 06:03	4°♄55'00	18°07'32
retrograde	7252 May 27 12:45	25°♄09'39		retrograde	7253 May 10 16:18	8°♄16'06	
evening set	7252 May 30 00:31	24°♄42'25		evening set	7253 May 13 11:14	7°♄37'00	
inferior conj	7252 Jun 05 20:58	19°♄51'26	2°18'29	inferior conj	7253 May 19 17:22	2°♄26'41	3°01'37

minimum elong	7253 May 19 19:45	2° $\Pi$ 20'25	3°01'08	evening set	7254 Apr 27 07:22	20° $\mathcal{S}$ 57'09	
	7253 May 22 01:14	30° $\mathcal{R}$ 8		inferior conj	7254 May 03 03:11	15° $\mathcal{S}$ 28'42	3°22'27
min. Earth dist.	7253 May 22 14:35	29° $\mathcal{S}$ 26'05	0.62398 AU	minimum elong	7254 May 03 04:10	15° $\mathcal{S}$ 25'50	3°22'19
morning rise	7253 May 26 02:33	26° $\mathcal{S}$ 20'47		min. Earth dist.	7254 May 05 09:44	12° $\mathcal{S}$ 50'01	0.64394 AU
desc. node	7253 Jun 01 10:04	23° $\mathcal{S}$ 52'02		morning rise	7254 May 09 00:03	9° $\mathcal{S}$ 14'54	
direct	7253 Jun 01 21:24	23° $\mathcal{S}$ 51'20		direct	7254 May 15 17:31	6° $\mathcal{S}$ 30'08	
	7253 Jun 14 00:05	0° $\Pi$		desc. node	7254 May 19 07:06	7° $\mathcal{S}$ 10'18	
morning max el	7253 Jun 15 23:42	1° $\Pi$ 53'37	27°53'48	morning max el	7254 May 29 09:01	14° $\mathcal{S}$ 28'13	27°27'32
	7253 Jul 06 15:40	0° $\mathcal{S}$			7254 Jun 10 23:31	0° $\Pi$	
morning set	7253 Jul 19 22:05	24° $\mathcal{S}$ 28'56			7254 Jun 29 07:36	0° $\mathcal{S}$	
	7253 Jul 22 14:15	0° $\mathcal{N}$		morning set	7254 Jul 03 14:13	8° $\mathcal{S}$ 10'10	
asc. node	7253 Jul 24 03:46	3° $\mathcal{N}$ 18'17		max. Earth dist.	7254 Jul 08 08:24	17° $\mathcal{S}$ 46'58	1.33213 AU
max. Earth dist.	7253 Jul 25 09:21	5° $\mathcal{N}$ 56'42	1.32271 AU	asc. node	7254 Jul 11 00:46	23° $\mathcal{S}$ 24'40	
superior conj	7253 Jul 27 11:45	10° $\mathcal{N}$ 29'49	0°33'40	superior conj	7254 Jul 11 16:44	24° $\mathcal{S}$ 49'30	0°06'49
minimum elong	7253 Jul 27 10:16	10° $\mathcal{N}$ 21'42	0°33'18	minimum elong	7254 Jul 11 16:23	24° $\mathcal{S}$ 47'40	0°06'40
evening rise	7253 Aug 03 08:30	25° $\mathcal{N}$ 26'24		behind sun begin	7254 Jul 11 11:23	24° $\mathcal{S}$ 21'04	
	7253 Aug 05 12:23	0° $\mathcal{N}$		behind sun end	7254 Jul 11 21:23	25° $\mathcal{S}$ 14'19	
	7253 Aug 23 08:21	0° $\mathcal{S}$			7254 Jul 14 02:42	0° $\mathcal{N}$	
evening max el	7253 Aug 27 21:11	4° $\mathcal{S}$ 58'21	24°05'40	evening rise	7254 Jul 18 19:51	10° $\mathcal{N}$ 06'04	
desc. node	7253 Aug 28 09:12	5° $\mathcal{S}$ 26'49			7254 Jul 29 02:22	0° $\mathcal{N}$	
retrograde	7253 Sep 10 14:50	11° $\mathcal{S}$ 51'49		evening max el	7254 Aug 09 09:58	15° $\mathcal{N}$ 13'58	22°26'56
evening set	7253 Sep 15 09:14	11° $\mathcal{S}$ 01'45		desc. node	7254 Aug 15 06:15	19° $\mathcal{N}$ 43'32	
min. Earth dist.	7253 Sep 21 07:56	8° $\mathcal{S}$ 05'28	0.56222 AU	retrograde	7254 Aug 22 10:19	21° $\mathcal{N}$ 42'45	
inferior conj	7253 Sep 23 16:52	6° $\mathcal{S}$ 37'48	-5°29'24	evening set	7254 Aug 25 16:33	21° $\mathcal{N}$ 19'24	
minimum elong	7253 Sep 23 16:08	6° $\mathcal{S}$ 38'56	5°29'22	min. Earth dist.	7254 Sep 02 16:46	17° $\mathcal{N}$ 48'54	0.55047 AU
morning rise	7253 Oct 02 01:16	2° $\mathcal{S}$ 39'06		inferior conj	7254 Sep 03 17:31	17° $\mathcal{N}$ 13'55	-4°57'39
direct	7253 Oct 04 18:39	2° $\mathcal{S}$ 19'49		minimum elong	7254 Sep 03 09:57	17° $\mathcal{N}$ 24'38	4°56'20
morning max el	7253 Oct 14 18:08	7° $\mathcal{S}$ 00'54	19°50'03	morning rise	7254 Sep 12 05:10	13° $\mathcal{N}$ 25'23	
asc. node	7253 Oct 20 03:13	13° $\mathcal{S}$ 21'52		direct	7254 Sep 15 10:19	13° $\mathcal{N}$ 01'58	
	7253 Oct 29 18:09	0° $\mathcal{N}$		morning max el	7254 Sep 26 23:17	18° $\mathcal{N}$ 26'06	21°13'17
morning set	7253 Nov 01 13:33	5° $\mathcal{N}$ 36'49			7254 Oct 06 01:52	0° $\mathcal{S}$	
superior conj	7253 Nov 09 08:49	21° $\mathcal{N}$ 24'46	1°33'29	asc. node	7254 Oct 07 00:13	1° $\mathcal{S}$ 30'35	
minimum elong	7253 Nov 09 10:59	21° $\mathcal{N}$ 35'32	1°33'24	morning set	7254 Oct 16 22:04	20° $\mathcal{S}$ 21'17	
	7253 Nov 13 18:36	0° $\mathcal{S}$			7254 Oct 21 12:29	0° $\mathcal{N}$	
max. Earth dist.	7253 Nov 15 06:43	2° $\mathcal{S}$ 50'34	1.37268 AU	superior conj	7254 Oct 24 05:37	5° $\mathcal{N}$ 39'49	1°41'02
evening rise	7253 Nov 19 01:03	9° $\mathcal{S}$ 44'23		minimum elong	7254 Oct 24 06:23	5° $\mathcal{N}$ 43'45	1°41'03
desc. node	7253 Nov 24 08:19	18° $\mathcal{S}$ 56'50		max. Earth dist.	7254 Oct 28 17:00	14° $\mathcal{N}$ 44'50	1.35351 AU
	7253 Dec 01 04:25	0° $\mathcal{S}$		evening rise	7254 Nov 01 20:09	22° $\mathcal{N}$ 44'39	
	7253 Dec 23 21:27	0° $\approx$			7254 Nov 05 18:57	0° $\mathcal{S}$	
evening max el	7253 Dec 24 16:37	0° $\approx$ 47'38	25°30'33	desc. node	7254 Nov 11 05:21	9° $\mathcal{S}$ 21'55	
retrograde	7254 Jan 05 21:53	7° $\approx$ 49'01			7254 Nov 24 21:53	0° $\mathcal{S}$	
evening set	7254 Jan 11 19:29	5° $\approx$ 22'51		evening max el	7254 Dec 07 05:49	14° $\mathcal{S}$ 31'57	26°32'11
min. Earth dist.	7254 Jan 16 04:43	0° $\approx$ 34'52	0.67343 AU	retrograde	7254 Dec 20 04:14	21° $\mathcal{S}$ 46'49	
asc. node	7254 Jan 16 02:27	0° $\approx$ 42'06		evening set	7254 Dec 26 14:22	19° $\mathcal{S}$ 12'01	
	7254 Jan 16 15:38	30° $\mathcal{R}$ 8		min. Earth dist.	7254 Dec 30 17:08	14° $\mathcal{S}$ 59'03	0.66307 AU
inferior conj	7254 Jan 17 11:22	28° $\mathcal{S}$ 56'32	0°27'27	inferior conj	7255 Jan 01 11:17	12° $\mathcal{S}$ 52'45	-0°30'35
minimum elong	7254 Jan 17 10:41	28° $\mathcal{S}$ 58'44	0°27'14	minimum elong	7255 Jan 01 12:08	12° $\mathcal{S}$ 50'13	0°30'08
morning rise	7254 Jan 23 02:15	23° $\mathcal{S}$ 02'40		asc. node	7255 Jan 02 23:30	11° $\mathcal{S}$ 06'17	
direct	7254 Jan 26 11:34	21° $\mathcal{S}$ 56'37		morning rise	7255 Jan 07 10:42	7° $\mathcal{S}$ 09'18	
morning max el	7254 Feb 02 11:27	25° $\mathcal{S}$ 48'36	19°12'23	direct	7255 Jan 10 09:45	6° $\mathcal{S}$ 20'10	
	7254 Feb 06 04:03	0° $\approx$		morning max el	7255 Jan 16 23:19	9° $\mathcal{S}$ 52'54	18°27'29
greatest brilliancy	7254 Feb 15 20:41	13° $\approx$ 43'04	-0.7m		7255 Jan 31 07:32	0° $\approx$	
desc. node	7254 Feb 20 07:41	20° $\approx$ 30'23		morning set	7255 Feb 06 02:07	9° $\approx$ 10'42	
morning set	7254 Feb 26 02:09	29° $\approx$ 24'22		desc. node	7255 Feb 07 04:40	10° $\approx$ 56'19	
	7254 Feb 26 11:21	0° $\mathcal{H}$			7255 Feb 19 06:24	0° $\mathcal{H}$	
max. Earth dist.	7254 Mar 11 16:02	20° $\mathcal{H}$ 35'14	1.44993 AU	superior conj	7255 Feb 21 22:35	4° $\mathcal{H}$ 11'29	-1°32'57
superior conj	7254 Mar 14 17:49	25° $\mathcal{H}$ 26'46	-2°01'55	minimum elong	7255 Feb 21 13:00	3° $\mathcal{H}$ 33'59	1°31'56
minimum elong	7254 Mar 14 11:15	25° $\mathcal{H}$ 00'46	2°01'34	max. Earth dist.	7255 Feb 22 11:10	5° $\mathcal{H}$ 00'46	1.45458 AU
	7254 Mar 17 14:28	0° $\mathcal{Y}$		evening rise	7255 Mar 09 19:12	29° $\mathcal{H}$ 06'15	
evening rise	7254 Mar 29 06:12	18° $\mathcal{Y}$ 56'23			7255 Mar 10 08:48	0° $\mathcal{Y}$	
	7254 Apr 04 23:12	0° $\mathcal{S}$		greatest brilliancy	7255 Mar 19 10:10	14° $\mathcal{Y}$ 16'12	-0.8m
asc. node	7254 Apr 14 01:32	13° $\mathcal{S}$ 56'05			7255 Mar 30 11:19	0° $\mathcal{S}$	
evening max el	7254 Apr 17 18:50	18° $\mathcal{S}$ 20'44	18°24'42	asc. node	7255 Mar 31 22:36	1° $\mathcal{S}$ 37'36	
retrograde	7254 Apr 24 05:28	21° $\mathcal{S}$ 49'31		evening max el	7255 Apr 01 05:00	1° $\mathcal{S}$ 54'01	18°59'32

retrograde	7255 Apr 08 00:34	5°♄43'03		greatest brilliancy	7256 Mar 02 15:49	0°♄00'23	-0.6m
evening set	7255 Apr 11 09:46	4°♄36'41			7256 Mar 02 15:43	0°♄	
	7255 Apr 16 01:00	30°♄♄		evening max el	7256 Mar 14 10:33	15°♄29'53	19°50'42
inferior conj	7255 Apr 16 22:46	28°♄51'42	3°25'55	asc. node	7256 Mar 17 19:42	18°♄23'06	
minimum elong	7255 Apr 16 22:24	28°♄52'54	3°25'52	retrograde	7256 Mar 21 22:35	19°♄49'51	
min. Earth dist.	7255 Apr 18 13:47	26°♄48'22	0.66022 AU	evening set	7256 Mar 25 15:52	18°♄29'00	
morning rise	7255 Apr 22 10:35	22°♄34'59		inferior conj	7256 Mar 31 00:59	12°♄29'27	3°15'48
direct	7255 Apr 28 20:31	19°♄47'38		minimum elong	7256 Mar 30 23:33	12°♄34'15	3°15'37
desc. node	7255 May 06 04:07	22°♄35'45		min. Earth dist.	7256 Apr 01 01:18	11°♄08'05	0.67216 AU
morning max el	7255 May 11 19:23	27°♄29'06	26°31'15	morning rise	7256 Apr 05 07:00	6°♄12'55	
	7255 May 14 04:14	0°♄		direct	7256 Apr 11 05:29	3°♄33'52	
	7255 Jun 04 16:01	0°♄		desc. node	7256 Apr 22 01:08	9°♄35'40	
morning set	7255 Jun 16 18:51	21°♄15'12		morning max el	7256 Apr 23 04:59	10°♄44'17	25°14'00
max. Earth dist.	7255 Jun 20 21:10	29°♄09'33	1.34635 AU		7256 May 08 12:36	0°♄	
	7255 Jun 21 07:22	0°♄			7256 May 27 07:49	0°♄	
				morning set	7256 May 29 07:37	3°♄32'26	
superior conj	7255 Jun 25 15:15	8°♄45'53	-0°22'55	max. Earth dist.	7256 Jun 01 23:19	10°♄13'59	1.36489 AU
minimum elong	7255 Jun 25 16:31	8°♄52'30	0°22'45				
asc. node	7255 Jun 27 21:48	13°♄29'10		superior conj	7256 Jun 08 04:27	22°♄11'39	-0°54'04
evening rise	7255 Jul 03 05:05	24°♄35'26		minimum elong	7256 Jun 08 07:39	22°♄27'30	0°53'35
	7255 Jul 05 20:23	0°♄			7256 Jun 12 01:53	0°♄	
evening max el	7255 Jul 22 07:01	25°♄47'56	20°56'21	asc. node	7256 Jun 13 18:51	3°♄27'56	
	7255 Jul 27 20:45	0°♄		evening rise	7256 Jun 16 09:57	8°♄48'12	
desc. node	7255 Aug 02 03:19	1°♄32'12			7256 Jun 28 01:00	0°♄	
retrograde	7255 Aug 02 22:50	1°♄33'49		evening max el	7256 Jul 03 17:00	7°♄02'59	19°43'14
evening set	7255 Aug 05 03:29	1°♄22'22		retrograde	7256 Jul 13 15:55	11°♄56'57	
	7255 Aug 09 11:44	30°♄♄		evening set	7256 Jul 15 12:39	11°♄47'23	
inferior conj	7255 Aug 14 10:08	27°♄25'10	-3°33'07	desc. node	7256 Jul 19 00:21	10°♄43'08	
minimum elong	7255 Aug 14 01:08	27°♄37'54	3°30'21	inferior conj	7256 Jul 24 09:26	7°♄44'44	-1°38'01
min. Earth dist.	7255 Aug 15 02:09	27°♄02'28	0.54731 AU	minimum elong	7256 Jul 24 04:56	7°♄51'44	1°36'21
morning rise	7255 Aug 22 23:02	23°♄27'50		min. Earth dist.	7256 Jul 26 14:22	6°♄22'35	0.55378 AU
direct	7255 Aug 26 18:30	22°♄56'43		morning rise	7256 Aug 01 19:03	3°♄18'33	
morning max el	7255 Sep 08 17:33	29°♄08'02	22°53'19	direct	7256 Aug 06 09:02	2°♄32'00	
	7255 Sep 09 15:09	0°♄		morning max el	7256 Aug 20 06:43	9°♄26'47	24°38'32
asc. node	7255 Sep 23 21:14	20°♄18'12			7256 Sep 04 13:19	0°♄	
	7255 Sep 28 21:07	0°♄		asc. node	7256 Sep 09 18:15	9°♄34'56	
morning set	7255 Oct 01 09:05	5°♄11'34		morning set	7256 Sep 14 20:52	20°♄02'30	
					7256 Sep 19 11:09	0°♄	
superior conj	7255 Oct 08 09:41	20°♄15'05	1°41'28				
minimum elong	7255 Oct 08 09:09	20°♄12'15	1°41'29	superior conj	7256 Sep 21 18:26	5°♄02'39	1°35'44
max. Earth dist.	7255 Oct 11 11:11	26°♄43'33	1.33789 AU	minimum elong	7256 Sep 21 16:55	4°♄54'22	1°35'38
	7255 Oct 13 01:10	0°♄		max. Earth dist.	7256 Sep 23 13:24	8°♄56'21	1.32655 AU
evening rise	7255 Oct 16 05:20	6°♄23'03		evening rise	7256 Sep 29 01:01	20°♄30'13	
desc. node	7255 Oct 29 02:22	29°♄29'30			7256 Oct 03 20:38	0°♄	
	7255 Oct 29 09:55	0°♄		desc. node	7256 Oct 14 23:26	19°♄12'03	
evening max el	7255 Nov 19 18:38	28°♄03'48	27°13'43		7256 Oct 22 11:10	0°♄	
	7255 Nov 21 22:01	0°♄		evening max el	7256 Nov 01 05:38	11°♄11'54	27°28'29
retrograde	7255 Dec 03 04:43	5°♄23'12		retrograde	7256 Nov 14 22:51	18°♄29'24	
evening set	7255 Dec 10 01:14	2°♄45'41		evening set	7256 Nov 22 01:20	15°♄57'57	
	7255 Dec 13 02:03	30°♄♄		min. Earth dist.	7256 Nov 25 17:59	12°♄50'18	0.63211 AU
min. Earth dist.	7255 Dec 13 22:11	29°♄07'03	0.64921 AU	inferior conj	7256 Nov 28 11:14	10°♄09'06	-2°41'36
inferior conj	7255 Dec 16 04:09	26°♄38'56	-1°34'19	minimum elong	7256 Nov 28 16:13	9°♄56'46	2°39'38
minimum elong	7255 Dec 16 06:58	26°♄31'11	1°33'03	morning rise	7256 Dec 05 08:57	4°♄55'11	
asc. node	7255 Dec 20 20:36	22°♄09'43		asc. node	7256 Dec 06 17:37	4°♄33'28	
morning rise	7255 Dec 22 14:01	21°♄08'45		direct	7256 Dec 07 17:45	4°♄28'36	
direct	7255 Dec 25 04:46	20°♄32'48		morning max el	7256 Dec 14 08:39	7°♄53'33	17°48'24
morning max el	7255 Dec 31 15:22	23°♄56'59	17°59'16		7256 Dec 28 23:04	0°♄	
	7256 Jan 05 13:37	0°♄		morning set	7256 Dec 30 14:37	2°♄52'25	
morning set	7256 Jan 18 07:38	20°♄24'41		desc. node	7257 Jan 10 22:40	22°♄15'29	
	7256 Jan 24 03:01	0°♄					
desc. node	7256 Jan 25 01:39	1°♄32'32		superior conj	7257 Jan 11 16:17	23°♄28'32	-0°05'19
				minimum elong	7257 Jan 11 15:44	23°♄26'14	0°05'09
superior conj	7256 Feb 01 08:44	13°♄17'53	-0°50'27	behind sun begin	7257 Jan 11 06:45	22°♄49'04	
minimum elong	7256 Feb 01 02:46	12°♄54'07	0°49'34	behind sun end	7257 Jan 12 00:42	24°♄03'19	
max. Earth dist.	7256 Feb 05 06:54	19°♄30'26	1.45173 AU		7257 Jan 15 15:55	0°♄	
	7256 Feb 12 00:04	0°♄		max. Earth dist.	7257 Jan 18 00:20	3°♄47'02	1.44186 AU
evening rise	7256 Feb 17 13:01	8°♄34'04		evening rise	7257 Jan 26 23:51	17°♄52'14	

	7257 Feb 03 23:32	0° $\text{H}$		minimum elong	7257 Dec 24 04:29	5° $\text{Z}$ 05'46	0°33'56
evening max el	7257 Feb 25 10:39	29° $\text{H}$ 07'01	20°55'43	desc. node	7257 Dec 28 19:40	13° $\text{Z}$ 01'24	
	7257 Feb 26 08:08	0° $\text{Y}$		max. Earth dist.	7257 Dec 31 13:47	17° $\text{Z}$ 36'33	1.42608 AU
asc. node	7257 Mar 04 16:46	3° $\text{Y}$ 57'53		evening rise	7258 Jan 06 19:14	27° $\text{Z}$ 39'07	
retrograde	7257 Mar 05 21:02	4° $\text{Y}$ 05'07			7258 Jan 08 07:05	0° $\approx$	
evening set	7257 Mar 09 23:38	2° $\text{Y}$ 29'23			7258 Jan 28 17:30	0° $\text{H}$	
	7257 Mar 12 11:34	30° $\text{R}$ $\text{H}$		evening max el	7258 Feb 08 05:38	12° $\text{H}$ 46'25	22°10'44
inferior conj	7257 Mar 15 07:17	26° $\text{H}$ 17'45	2°54'38	retrograde	7258 Feb 17 18:05	18° $\text{H}$ 25'16	
minimum elong	7257 Mar 15 05:11	26° $\text{H}$ 24'58	2°54'12	asc. node	7258 Feb 19 13:49	18° $\text{H}$ 08'09	
min. Earth dist.	7257 Mar 15 18:11	25° $\text{H}$ 40'05	0.67972 AU	evening set	7258 Feb 22 07:26	16° $\text{H}$ 34'19	
morning rise	7257 Mar 20 10:32	20° $\text{H}$ 03'24		inferior conj	7258 Feb 27 15:31	10° $\text{H}$ 13'33	2°23'59
direct	7257 Mar 25 19:32	17° $\text{H}$ 40'39		minimum elong	7258 Feb 27 13:13	10° $\text{H}$ 21'34	2°23'20
morning max el	7257 Apr 05 13:56	24° $\text{H}$ 06'16	23°45'55	min. Earth dist.	7258 Feb 27 14:07	10° $\text{H}$ 18'25	0.68304 AU
desc. node	7257 Apr 08 22:08	27° $\text{H}$ 43'53		morning rise	7258 Mar 04 18:49	4° $\text{H}$ 03'01	
	7257 Apr 10 20:07	0° $\text{Y}$		direct	7258 Mar 09 13:40	2° $\text{H}$ 01'19	
	7257 May 01 22:47	0° $\text{B}$		morning max el	7258 Mar 19 00:58	7° $\text{H}$ 35'21	22°16'58
morning set	7257 May 10 22:57	14° $\text{B}$ 46'40		desc. node	7258 Mar 26 19:07	16° $\text{H}$ 41'28	
max. Earth dist.	7257 May 14 19:09	21° $\text{B}$ 26'48	1.38648 AU		7258 Apr 05 09:36	0° $\text{Y}$	
	7257 May 19 12:53	0° $\text{II}$		morning set	7258 Apr 21 11:31	24° $\text{Y}$ 44'34	
					7258 Apr 24 16:22	0° $\text{B}$	
superior conj	7257 May 22 04:43	4° $\text{II}$ 57'33	-1°24'28	max. Earth dist.	7258 Apr 26 16:30	3° $\text{B}$ 21'22	1.40874 AU
minimum elong	7257 May 22 09:40	5° $\text{II}$ 20'52	1°23'50				
evening rise	7257 May 31 07:41	22° $\text{II}$ 36'21		superior conj	7258 May 04 11:37	16° $\text{B}$ 53'15	-1°50'39
asc. node	7257 May 31 15:53	23° $\text{II}$ 16'21		minimum elong	7258 May 04 17:08	17° $\text{B}$ 17'53	1°50'11
	7257 Jun 04 03:43	0° $\text{E}$			7258 May 11 15:43	0° $\text{II}$	
evening max el	7257 Jun 16 15:05	19° $\text{E}$ 01'49	18°50'34	evening rise	7258 May 14 18:54	5° $\text{II}$ 51'28	
retrograde	7257 Jun 25 00:07	23° $\text{E}$ 09'52		asc. node	7258 May 18 12:55	12° $\text{II}$ 49'49	
evening set	7257 Jun 27 00:34	22° $\text{E}$ 56'24			7258 May 29 09:33	0° $\text{E}$	
inferior conj	7257 Jul 05 02:42	18° $\text{E}$ 37'39	0°13'58	evening max el	7258 May 30 21:52	1° $\text{E}$ 37'09	18°18'23
minimum elong	7257 Jul 05 03:15	18° $\text{E}$ 36'40	0°13'41	retrograde	7258 Jun 07 03:32	5° $\text{E}$ 14'24	
transit middle	7257 Jul 05 03:15	18° $\text{E}$ 36'40	0°13'41	evening set	7258 Jun 09 11:14	4° $\text{E}$ 52'55	
transit begin	7257 Jul 05 01:18	18° $\text{E}$ 40'11		inferior conj	7258 Jun 16 17:42	0° $\text{E}$ 13'37	1°41'26
transit end	7257 Jul 05 05:12	18° $\text{E}$ 33'09		minimum elong	7258 Jun 16 20:39	0° $\text{E}$ 07'22	1°40'25
desc. node	7257 Jul 05 21:24	18° $\text{E}$ 03'48			7258 Jun 17 00:08	30° $\text{R}$ $\text{II}$	
min. Earth dist.	7257 Jul 08 06:21	16° $\text{E}$ 22'14	0.56872 AU	min. Earth dist.	7258 Jun 20 03:35	27° $\text{II}$ 22'12	0.58913 AU
morning rise	7257 Jul 13 02:30	13° $\text{E}$ 34'40		desc. node	7258 Jun 22 18:26	25° $\text{II}$ 27'19	
direct	7257 Jul 18 13:46	12° $\text{E}$ 22'25		morning rise	7258 Jun 24 02:57	24° $\text{II}$ 38'23	
morning max el	7257 Aug 01 21:14	19° $\text{E}$ 49'18	26°12'44	direct	7258 Jun 30 08:18	22° $\text{II}$ 54'12	
	7257 Aug 10 13:43	0° $\text{O}$			7258 Jul 14 00:17	0° $\text{E}$	
asc. node	7257 Aug 27 15:15	29° $\text{O}$ 12'17		morning max el	7258 Jul 14 17:23	0° $\text{E}$ 41'11	27°20'37
	7257 Aug 28 00:34	0° $\text{P}$			7258 Aug 04 16:14	0° $\text{O}$	
morning set	7257 Aug 30 07:42	4° $\text{P}$ 48'08		morning set	7258 Aug 14 15:58	19° $\text{O}$ 23'52	
				asc. node	7258 Aug 14 12:14	19° $\text{O}$ 04'18	
superior conj	7257 Sep 06 05:37	19° $\text{P}$ 54'31	1°24'29		7258 Aug 19 13:52	0° $\text{P}$	
minimum elong	7257 Sep 06 03:31	19° $\text{P}$ 42'51	1°24'13				
max. Earth dist.	7257 Sep 06 21:25	21° $\text{P}$ 21'48	1.31974 AU	superior conj	7258 Aug 21 17:25	4° $\text{P}$ 44'54	1°08'15
	7257 Sep 10 20:15	0° $\text{A}$		minimum elong	7258 Aug 21 15:09	4° $\text{P}$ 32'23	1°07'51
evening rise	7257 Sep 13 04:05	4° $\text{A}$ 56'38		max. Earth dist.	7258 Aug 21 07:58	3° $\text{P}$ 52'32	1.31742 AU
	7257 Sep 26 12:17	0° $\text{M}$		evening rise	7258 Aug 28 12:06	19° $\text{P}$ 35'08	
desc. node	7257 Oct 01 20:28	8° $\text{M}$ 18'21			7258 Sep 02 14:02	0° $\text{A}$	
evening max el	7257 Oct 14 12:33	23° $\text{M}$ 42'59	27°11'17	desc. node	7258 Sep 18 17:30	26° $\text{A}$ 34'09	
	7257 Oct 23 17:37	0° $\text{X}$			7258 Sep 21 11:06	0° $\text{M}$	
retrograde	7257 Oct 28 09:31	0° $\text{X}$ 54'54		evening max el	7258 Sep 26 12:44	5° $\text{M}$ 26'26	26°20'16
	7257 Nov 01 21:34	30° $\text{R}$ $\text{M}$		retrograde	7258 Oct 10 11:02	12° $\text{M}$ 32'20	
evening set	7257 Nov 04 10:55	28° $\text{M}$ 40'36		evening set	7258 Oct 17 01:20	10° $\text{M}$ 46'12	
min. Earth dist.	7257 Nov 08 03:18	25° $\text{M}$ 56'06	0.61245 AU	min. Earth dist.	7258 Oct 21 02:04	8° $\text{M}$ 11'36	0.59165 AU
inferior conj	7257 Nov 11 05:20	23° $\text{M}$ 14'27	-3°48'23	inferior conj	7258 Oct 24 06:57	5° $\text{M}$ 45'29	-4°47'02
minimum elong	7257 Nov 11 12:01	22° $\text{M}$ 59'49	3°46'17	minimum elong	7258 Oct 24 13:34	5° $\text{M}$ 32'52	4°45'38
morning rise	7257 Nov 18 15:18	18° $\text{M}$ 19'52		morning rise	7258 Nov 01 04:03	1° $\text{M}$ 13'05	
direct	7257 Nov 20 21:12	17° $\text{M}$ 59'04		direct	7258 Nov 03 11:00	0° $\text{M}$ 54'54	
asc. node	7257 Nov 23 14:38	18° $\text{M}$ 30'57		asc. node	7258 Nov 10 11:39	3° $\text{M}$ 57'13	
morning max el	7257 Nov 27 23:49	21° $\text{M}$ 33'21	17°55'54	morning max el	7258 Nov 11 09:25	4° $\text{M}$ 47'01	18°23'14
	7257 Dec 04 10:13	0° $\text{X}$		morning set	7258 Nov 27 07:36	0° $\text{X}$ 11'37	
morning set	7257 Dec 13 16:30	16° $\text{X}$ 13'40			7258 Nov 27 05:11	0° $\text{X}$	
	7257 Dec 21 06:58	0° $\text{Z}$					
				superior conj	7258 Dec 06 10:08	17° $\text{X}$ 24'36	1°04'41
superior conj	7257 Dec 24 01:44	4° $\text{Z}$ 53'46	0°34'15	minimum elong	7258 Dec 06 13:43	17° $\text{X}$ 41'03	1°04'19























































































































	7258 Dec 13 11:37	0°♄		max. Earth dist.	7259 Nov 26 04:29	13°♄17'37	1.38473 AU
max. Earth dist.	7258 Dec 13 22:41	0°♄47'42	1.40624 AU	evening rise	7259 Nov 29 22:47	19°♄58'13	
desc. node	7258 Dec 15 16:39	3°♄46'33		desc. node	7259 Dec 02 13:40	24°♄27'36	
evening rise	7258 Dec 18 09:51	8°♄18'45			7259 Dec 05 21:47	0°♄	
	7259 Jan 01 08:25	0°♄			7259 Dec 26 11:37	0°♄	
evening max el	7259 Jan 21 20:49	26°♄28'36	23°30'32	evening max el	7260 Jan 04 10:03	10°♄14'04	24°48'49
	7259 Jan 25 20:33	0°♄		retrograde	7260 Jan 16 02:37	17°♄02'28	
retrograde	7259 Feb 01 12:15	2°♄45'43		evening set	7260 Jan 21 16:54	14°♄42'40	
asc. node	7259 Feb 06 10:51	0°♄45'40		asc. node	7260 Jan 24 07:54	12°♄00'38	
evening set	7259 Feb 06 13:41	0°♄39'45		min. Earth dist.	7260 Jan 26 06:03	9°♄35'08	0.67776 AU
	7259 Feb 07 07:15	30°♄		inferior conj	7260 Jan 27 06:20	8°♄14'53	0°57'50
inferior conj	7259 Feb 11 23:47	24°♄13'23	1°44'49	minimum elong	7260 Jan 27 05:00	8°♄19'18	0°57'22
minimum elong	7259 Feb 11 21:43	24°♄20'27	1°44'08	morning rise	7260 Feb 01 17:18	2°♄16'30	
min. Earth dist.	7259 Feb 11 10:48	24°♄57'54	0.68234 AU	direct	7260 Feb 05 09:20	0°♄59'16	
morning rise	7259 Feb 17 05:43	18°♄08'06		morning max el	7260 Feb 12 18:34	5°♄07'26	19°45'38
direct	7259 Feb 21 10:39	16°♄29'08		greatest brilliancy	7260 Feb 25 14:57	21°♄53'13	-0.6m
morning max el	7259 Mar 01 17:47	21°♄14'58	20°55'07	desc. node	7260 Feb 28 13:05	26°♄13'15	
	7259 Mar 09 02:49	0°♄			7260 Mar 02 01:24	0°♄	
desc. node	7259 Mar 13 16:06	6°♄14'20		morning set	7260 Mar 09 18:16	11°♄45'46	
	7259 Mar 29 15:26	0°♄			7260 Mar 21 10:21	0°♄	
morning set	7259 Mar 31 21:17	3°♄29'18		max. Earth dist.	7260 Mar 21 08:15	29°♄51'40	1.44401 AU
max. Earth dist.	7259 Apr 08 20:45	16°♄12'04	1.42877 AU				
				superior conj	7260 Mar 26 04:00	7°♄35'13	-2°09'39
superior conj	7259 Apr 15 20:19	27°♄47'07	-2°07'43	minimum elong	7260 Mar 26 01:22	7°♄24'37	2°09'37
minimum elong	7259 Apr 15 23:36	28°♄01'02	2°07'39	evening rise	7260 Apr 08 16:37	0°♄02'27	
	7259 Apr 17 03:35	0°♄			7260 Apr 08 16:03	0°♄	
evening rise	7259 Apr 27 15:22	18°♄23'04		asc. node	7260 Apr 21 06:59	20°♄46'29	
	7259 May 04 05:14	0°♄		evening max el	7260 Apr 26 22:39	27°♄57'09	18°12'30
asc. node	7259 May 05 09:57	2°♄02'05			7260 Apr 29 09:33	0°♄	
evening max el	7259 May 14 09:29	14°♄38'18	18°05'56	retrograde	7260 May 03 08:03	1°♄20'11	
retrograde	7259 May 20 23:42	18°♄01'06		evening set	7260 May 06 05:52	0°♄35'37	
evening set	7259 May 23 14:40	17°♄28'54			7260 May 07 06:19	30°♄	
inferior conj	7259 May 30 04:29	12°♄29'12	2°39'51	inferior conj	7260 May 12 07:08	25°♄17'08	3°12'50
minimum elong	7259 May 30 07:27	12°♄21'55	2°39'05	minimum elong	7260 May 12 08:56	25°♄12'08	3°12'32
min. Earth dist.	7259 Jun 02 08:20	9°♄25'19	0.61147 AU	min. Earth dist.	7260 May 14 22:17	22°♄23'48	0.63285 AU
morning rise	7259 Jun 05 22:02	6°♄31'30		morning rise	7260 May 18 10:41	19°♄06'47	
desc. node	7259 Jun 09 15:28	4°♄42'42		direct	7260 May 25 05:37	16°♄29'30	
direct	7259 Jun 12 14:10	4°♄16'42		desc. node	7260 May 26 12:30	16°♄34'42	
morning max el	7259 Jun 26 20:16	12°♄15'24	27°52'44	morning max el	7260 Jun 08 04:17	24°♄31'37	27°46'47
	7259 Jul 10 20:55	0°♄			7260 Jun 13 03:06	0°♄	
	7259 Jul 27 23:47	0°♄			7260 Jul 03 06:47	0°♄	
morning set	7259 Jul 29 19:51	3°♄44'11		morning set	7260 Jul 12 17:06	17°♄42'24	
asc. node	7259 Aug 01 09:14	9°♄05'31		max. Earth dist.	7260 Jul 17 21:15	28°♄23'30	1.32613 AU
max. Earth dist.	7259 Aug 04 17:17	16°♄17'22	1.31949 AU	asc. node	7260 Jul 18 06:14	29°♄11'19	
					7260 Jul 18 15:22	0°♄	
superior conj	7259 Aug 06 04:03	19°♄28'02	0°47'29				
minimum elong	7259 Aug 06 02:08	19°♄17'30	0°47'04	superior conj	7260 Jul 20 11:41	3°♄58'10	0°22'41
	7259 Aug 10 23:00	0°♄		minimum elong	7260 Jul 20 10:38	3°♄52'25	0°22'23
evening rise	7259 Aug 12 22:56	4°♄19'03		evening rise	7260 Jul 27 10:40	19°♄02'03	
	7259 Aug 26 12:32	0°♄			7260 Aug 01 18:51	0°♄	
desc. node	7259 Sep 05 14:33	13°♄39'43		evening max el	7260 Aug 19 16:35	26°♄40'10	23°23'30
evening max el	7259 Sep 08 04:59	16°♄20'19	25°00'11	desc. node	7260 Aug 22 11:37	29°♄07'32	
retrograde	7259 Sep 22 01:56	23°♄20'19			7260 Aug 23 15:41	0°♄	
evening set	7259 Sep 27 16:07	22°♄09'34		retrograde	7260 Sep 02 04:54	3°♄26'15	
min. Earth dist.	7259 Oct 02 16:18	19°♄26'48	0.57189 AU	evening set	7260 Sep 06 07:39	2°♄49'09	
inferior conj	7259 Oct 05 13:06	17°♄33'17	-5°24'29		7260 Sep 12 12:11	30°♄	
minimum elong	7259 Oct 05 16:09	17°♄28'12	5°24'13	min. Earth dist.	7260 Sep 13 02:06	29°♄39'56	0.55624 AU
morning rise	7259 Oct 13 18:27	13°♄23'53		inferior conj	7260 Sep 14 23:14	28°♄33'27	-5°22'41
direct	7259 Oct 16 06:56	13°♄05'39		minimum elong	7260 Sep 14 19:21	28°♄39'12	5°22'22
morning max el	7259 Oct 25 10:00	17°♄25'22	19°12'03	morning rise	7260 Sep 23 09:20	24°♄41'17	
asc. node	7259 Oct 28 08:40	20°♄38'51		direct	7260 Sep 26 07:12	24°♄20'43	
	7259 Nov 03 14:36	0°♄		morning max el	7260 Oct 06 22:41	29°♄18'57	20°23'05
morning set	7259 Nov 11 07:49	14°♄34'40			7260 Oct 07 15:41	0°♄	
	7259 Nov 19 02:40	0°♄		asc. node	7260 Oct 14 05:41	8°♄19'45	
				morning set	7260 Oct 25 13:58	29°♄13'03	
superior conj	7259 Nov 19 12:24	0°♄47'11	1°25'32		7260 Oct 25 23:08	0°♄	
minimum elong	7259 Nov 19 15:17	1°♄01'09	1°25'20				

superior conj	7260 Nov 02 03:36	14° $\mathbb{M}$ 46'29	1°37'37	direct	7261 Sep 06 18:00	4° $\mathbb{M}$ 40'21	
minimum elong	7260 Nov 02 05:10	14° $\mathbb{M}$ 54'27	1°37'35	morning max el	7261 Sep 18 22:53	10° $\mathbb{M}$ 25'12	21°54'15
max. Earth dist.	7260 Nov 07 11:12	25° $\mathbb{M}$ 16'33	1.36408 AU	asc. node	7261 Oct 01 02:43	26° $\mathbb{M}$ 46'25	
	7260 Nov 09 23:08	0° $\mathbb{M}$			7261 Oct 02 22:09	0° $\mathbb{M}$	
evening rise	7260 Nov 11 07:58	2° $\mathbb{M}$ 31'38		morning set	7261 Oct 09 23:47	14° $\mathbb{M}$ 00'27	
desc. node	7260 Nov 18 10:41	14° $\mathbb{M}$ 59'42					
	7260 Nov 27 22:50	0° $\mathbb{M}$		superior conj	7261 Oct 17 03:53	29° $\mathbb{M}$ 11'17	1°42'00
evening max el	7260 Dec 16 22:52	23° $\mathbb{M}$ 59'35	25°58'43	minimum elong	7261 Oct 17 04:04	29° $\mathbb{M}$ 12'16	1°42'03
	7260 Dec 24 22:41	0° $\mathbb{M}$			7261 Oct 17 13:10	0° $\mathbb{M}$	
retrograde	7260 Dec 29 12:16	1° $\mathbb{M}$ 08'48		max. Earth dist.	7261 Oct 21 00:16	7° $\mathbb{M}$ 08'59	1.34636 AU
	7261 Jan 02 16:33	30° $\mathbb{M}$		evening rise	7261 Oct 25 09:34	15° $\mathbb{M}$ 49'32	
evening set	7261 Jan 04 15:23	28° $\mathbb{M}$ 38'06			7261 Nov 02 04:14	0° $\mathbb{M}$	
min. Earth dist.	7261 Jan 08 21:40	24° $\mathbb{M}$ 05'07	0.66944 AU	desc. node	7261 Nov 05 07:43	5° $\mathbb{M}$ 17'53	
inferior conj	7261 Jan 10 09:16	22° $\mathbb{M}$ 13'53	0°03'37		7261 Nov 22 12:04	0° $\mathbb{M}$	
minimum elong	7261 Jan 10 09:10	22° $\mathbb{M}$ 14'12	0°03'39	evening max el	7261 Nov 29 12:00	7° $\mathbb{M}$ 39'34	26°52'46
transit middle	7261 Jan 10 09:10	22° $\mathbb{M}$ 14'12	0°03'39	retrograde	7261 Dec 12 16:24	14° $\mathbb{M}$ 57'56	
transit begin	7261 Jan 10 06:23	22° $\mathbb{M}$ 22'52		evening set	7261 Dec 19 07:09	12° $\mathbb{M}$ 21'12	
transit end	7261 Jan 10 11:56	22° $\mathbb{M}$ 05'32		min. Earth dist.	7261 Dec 23 07:20	8° $\mathbb{M}$ 22'47	0.65755 AU
asc. node	7261 Jan 10 04:58	22° $\mathbb{M}$ 27'21		inferior conj	7261 Dec 25 06:28	6° $\mathbb{M}$ 06'15	-0°57'02
morning rise	7261 Jan 16 03:32	16° $\mathbb{M}$ 24'18		minimum elong	7261 Dec 25 08:06	6° $\mathbb{M}$ 01'30	0°56'14
direct	7261 Jan 19 08:09	15° $\mathbb{M}$ 26'04		asc. node	7261 Dec 28 02:02	3° $\mathbb{M}$ 01'15	
morning max el	7261 Jan 26 02:54	19° $\mathbb{M}$ 08'43	18°51'18	morning rise	7261 Dec 31 10:07	0° $\mathbb{M}$ 27'55	
	7261 Feb 03 14:58	0° $\mathbb{M}$			7262 Jan 01 13:36	30° $\mathbb{M}$	
desc. node	7261 Feb 14 10:04	16° $\mathbb{M}$ 30'32		direct	7262 Jan 03 05:17	29° $\mathbb{M}$ 44'56	
morning set	7261 Feb 17 02:58	20° $\mathbb{M}$ 43'57			7262 Jan 04 21:20	0° $\mathbb{M}$	
	7261 Feb 23 01:15	0° $\mathbb{M}$		morning max el	7262 Jan 09 16:50	3° $\mathbb{M}$ 13'13	18°13'19
max. Earth dist.	7261 Mar 04 00:44	14° $\mathbb{M}$ 02'49	1.45276 AU		7262 Jan 27 22:51	0° $\mathbb{M}$	
				morning set	7262 Jan 28 15:29	1° $\mathbb{M}$ 07'21	
superior conj	7261 Mar 05 14:42	16° $\mathbb{M}$ 31'53	-1°51'53	desc. node	7262 Feb 01 07:02	7° $\mathbb{M}$ 00'50	
minimum elong	7261 Mar 05 06:02	15° $\mathbb{M}$ 57'48	1°51'12				
	7261 Mar 14 02:52	0° $\mathbb{M}$		superior conj	7262 Feb 12 19:15	25° $\mathbb{M}$ 18'51	-1°15'57
evening rise	7261 Mar 20 18:58	10° $\mathbb{M}$ 43'32		minimum elong	7262 Feb 12 10:35	24° $\mathbb{M}$ 44'48	1°14'53
	7261 Apr 01 19:56	0° $\mathbb{M}$		max. Earth dist.	7262 Feb 14 19:56	28° $\mathbb{M}$ 29'55	1.45424 AU
asc. node	7261 Apr 08 04:03	8° $\mathbb{M}$ 54'10			7262 Feb 15 18:56	0° $\mathbb{M}$	
evening max el	7261 Apr 10 10:35	11° $\mathbb{M}$ 26'48	18°37'25	evening rise	7262 Feb 28 22:40	20° $\mathbb{M}$ 31'35	
retrograde	7261 Apr 17 00:13	15° $\mathbb{M}$ 03'05			7262 Mar 07 00:39	0° $\mathbb{M}$	
evening set	7261 Apr 20 05:02	14° $\mathbb{M}$ 05'02		greatest brilliancy	7262 Mar 12 17:07	8° $\mathbb{M}$ 45'11	-0.7m
inferior conj	7261 Apr 25 21:34	8° $\mathbb{M}$ 29'27	3°25'46	evening max el	7262 Mar 24 19:00	25° $\mathbb{M}$ 01'34	19°19'32
minimum elong	7261 Apr 25 21:57	8° $\mathbb{M}$ 28'18	3°25'42	asc. node	7262 Mar 26 01:08	26° $\mathbb{M}$ 13'28	
min. Earth dist.	7261 Apr 27 21:34	6° $\mathbb{M}$ 04'16	0.65132 AU	retrograde	7262 Mar 31 20:46	29° $\mathbb{M}$ 02'29	
morning rise	7261 May 01 14:10	2° $\mathbb{M}$ 13'40		evening set	7262 Apr 04 09:15	27° $\mathbb{M}$ 50'08	
	7261 May 05 04:22	30° $\mathbb{M}$		inferior conj	7262 Apr 09 20:18	21° $\mathbb{M}$ 59'00	3°23'07
direct	7261 May 08 04:59	29° $\mathbb{M}$ 26'03		minimum elong	7262 Apr 09 19:26	22° $\mathbb{M}$ 01'50	3°23'01
	7261 May 11 09:56	0° $\mathbb{M}$		min. Earth dist.	7262 Apr 11 05:01	20° $\mathbb{M}$ 12'45	0.66582 AU
desc. node	7261 May 13 09:33	0° $\mathbb{M}$ 51'14		morning rise	7262 Apr 15 05:15	15° $\mathbb{M}$ 42'08	
morning max el	7261 May 21 14:28	7° $\mathbb{M}$ 19'45	27°06'45	direct	7262 Apr 21 10:50	12° $\mathbb{M}$ 56'46	
	7261 Jun 08 02:30	0° $\mathbb{M}$		desc. node	7262 Apr 30 06:33	17° $\mathbb{M}$ 00'08	
	7261 Jun 25 14:16	0° $\mathbb{M}$		morning max el	7262 May 04 00:24	20° $\mathbb{M}$ 27'00	26°00'21
morning set	7261 Jun 26 04:54	1° $\mathbb{M}$ 10'26			7262 May 12 05:19	0° $\mathbb{M}$	
max. Earth dist.	7261 Jun 30 16:06	10° $\mathbb{M}$ 01'52	1.33755 AU		7262 Jun 01 06:03	0° $\mathbb{M}$	
				morning set	7262 Jun 09 03:23	13° $\mathbb{M}$ 56'46	
superior conj	7261 Jul 04 14:18	18° $\mathbb{M}$ 09'25	-0°05'32	max. Earth dist.	7262 Jun 12 23:48	21° $\mathbb{M}$ 13'05	1.35374 AU
minimum elong	7261 Jul 04 14:35	18° $\mathbb{M}$ 10'58	0°05'34		7262 Jun 17 10:41	0° $\mathbb{M}$	
behind sun begin	7261 Jul 04 09:18	17° $\mathbb{M}$ 43'08					
behind sun end	7261 Jul 04 19:53	18° $\mathbb{M}$ 38'49		superior conj	7262 Jun 18 09:15	1° $\mathbb{M}$ 54'00	-0°36'03
asc. node	7261 Jul 05 03:16	19° $\mathbb{M}$ 17'45		minimum elong	7262 Jun 18 11:20	2° $\mathbb{M}$ 04'32	0°35'44
	7261 Jul 10 04:06	0° $\mathbb{M}$		asc. node	7262 Jun 22 00:17	9° $\mathbb{M}$ 20'16	
evening rise	7261 Jul 11 21:25	3° $\mathbb{M}$ 38'28		evening rise	7262 Jun 26 05:04	18° $\mathbb{M}$ 01'27	
	7261 Jul 26 10:56	0° $\mathbb{M}$			7262 Jul 02 06:14	0° $\mathbb{M}$	
evening max el	7261 Aug 01 08:02	7° $\mathbb{M}$ 00'21	21°46'44	evening max el	7262 Jul 14 10:33	17° $\mathbb{M}$ 50'54	20°22'52
desc. node	7261 Aug 09 08:41	12° $\mathbb{M}$ 25'07		retrograde	7262 Jul 25 09:03	23° $\mathbb{M}$ 14'08	
retrograde	7261 Aug 13 20:41	13° $\mathbb{M}$ 13'10		evening set	7262 Jul 27 08:27	23° $\mathbb{M}$ 04'21	
evening set	7261 Aug 16 13:37	12° $\mathbb{M}$ 56'42		desc. node	7262 Jul 27 05:46	23° $\mathbb{M}$ 05'25	
inferior conj	7261 Aug 25 18:58	8° $\mathbb{M}$ 56'20	-4°27'36	inferior conj	7262 Aug 05 12:38	19° $\mathbb{M}$ 06'58	-2°46'01
minimum elong	7261 Aug 25 09:53	9° $\mathbb{M}$ 09'04	4°25'27	minimum elong	7262 Aug 05 05:06	19° $\mathbb{M}$ 17'56	2°43'26
min. Earth dist.	7261 Aug 25 11:19	9° $\mathbb{M}$ 07'03	0.54792 AU	min. Earth dist.	7262 Aug 06 21:48	18° $\mathbb{M}$ 18'40	0.54898 AU
morning rise	7261 Sep 03 07:24	5° $\mathbb{M}$ 06'18		morning rise	7262 Aug 14 00:52	14° $\mathbb{M}$ 59'15	

direct	7262 Aug 18 04:02	14° $\Omega$ 22'28		morning rise	7263 Jul 25 00:50	24° $\mathfrak{G}$ 56'28	
morning max el	7262 Aug 31 13:58	20° $\Omega$ 53'24	23°38'11	direct	7263 Jul 29 23:59	24° $\mathfrak{G}$ 00'14	
	7262 Sep 08 09:15	0° $\mathfrak{M}$			7263 Aug 11 20:42	0° $\Omega$	
asc. node	7262 Sep 17 23:43	15° $\mathfrak{M}$ 47'13		morning max el	7263 Aug 13 02:48	1° $\Omega$ 09'09	25°20'56
morning set	7262 Sep 24 11:19	28° $\mathfrak{M}$ 51'11			7263 Sep 02 04:11	0° $\mathfrak{M}$	
	7262 Sep 25 00:16	0° $\mathfrak{L}$		asc. node	7263 Sep 04 20:42	5° $\mathfrak{M}$ 13'17	
				morning set	7263 Sep 08 22:53	13° $\mathfrak{M}$ 40'11	
superior conj	7262 Oct 01 10:13	13° $\mathfrak{L}$ 52'15	1°39'44	superior conj	7263 Sep 15 20:12	28° $\mathfrak{M}$ 41'53	1°31'35
minimum elong	7262 Oct 01 09:13	13° $\mathfrak{L}$ 46'54	1°39'43	minimum elong	7263 Sep 15 18:23	28° $\mathfrak{M}$ 31'52	1°31'25
max. Earth dist.	7262 Oct 03 22:06	19° $\mathfrak{L}$ 13'13	1.33258 AU		7263 Sep 16 10:25	0° $\mathfrak{L}$	
evening rise	7262 Oct 08 23:39	29° $\mathfrak{L}$ 41'16		max. Earth dist.	7263 Sep 17 03:21	1° $\mathfrak{L}$ 32'46	1.32317 AU
	7262 Oct 09 03:24	0° $\mathfrak{M}$		evening rise	7263 Sep 22 22:48	13° $\mathfrak{L}$ 57'13	
desc. node	7262 Oct 23 04:47	25° $\mathfrak{M}$ 15'44			7263 Oct 01 05:17	0° $\mathfrak{M}$	
	7262 Oct 26 05:54	0° $\mathfrak{X}$		desc. node	7263 Oct 10 01:50	14° $\mathfrak{M}$ 44'12	
evening max el	7262 Nov 12 00:33	21° $\mathfrak{X}$ 03'35	27°23'44		7263 Oct 21 14:12	0° $\mathfrak{X}$	
retrograde	7262 Nov 25 14:11	28° $\mathfrak{X}$ 22'10		evening max el	7263 Oct 25 10:13	3° $\mathfrak{X}$ 57'25	27°25'16
evening set	7262 Dec 02 13:48	25° $\mathfrak{X}$ 46'25		retrograde	7263 Nov 08 04:56	11° $\mathfrak{X}$ 11'57	
min. Earth dist.	7262 Dec 06 08:49	22° $\mathfrak{X}$ 21'17	0.64228 AU	evening set	7263 Nov 15 08:11	8° $\mathfrak{X}$ 46'26	
inferior conj	7262 Dec 08 19:33	19° $\mathfrak{X}$ 46'40	-2°02'35	min. Earth dist.	7263 Nov 19 00:05	5° $\mathfrak{X}$ 50'02	0.62403 AU
minimum elong	7262 Dec 08 23:17	19° $\mathfrak{X}$ 36'48	2°01'00	inferior conj	7263 Nov 21 21:31	3° $\mathfrak{X}$ 07'07	-3°10'20
asc. node	7262 Dec 14 23:06	14° $\mathfrak{X}$ 35'21		minimum elong	7263 Nov 22 03:20	2° $\mathfrak{X}$ 53'26	3°08'13
morning rise	7262 Dec 15 10:18	14° $\mathfrak{X}$ 22'40			7263 Nov 25 11:35	30° $\mathfrak{R}$ $\mathfrak{M}$	
direct	7262 Dec 17 22:14	13° $\mathfrak{X}$ 51'05		morning rise	7263 Nov 29 00:28	28° $\mathfrak{M}$ 01'00	
morning max el	7262 Dec 24 09:44	17° $\mathfrak{X}$ 14'34	17°52'26	direct	7263 Dec 01 07:46	27° $\mathfrak{M}$ 37'09	
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morning set	7263 Jan 10 08:41	12° $\mathfrak{Z}$ 55'34			7263 Dec 06 22:03	0° $\mathfrak{X}$	
desc. node	7263 Jan 19 04:01	27° $\mathfrak{Z}$ 40'14		morning max el	7263 Dec 08 02:29	1° $\mathfrak{X}$ 04'42	17°49'18
	7263 Jan 20 14:05	0° $\approx$		morning set	7263 Dec 24 00:29	25° $\mathfrak{X}$ 48'16	
					7263 Dec 26 09:07	0° $\mathfrak{Z}$	
superior conj	7263 Jan 23 13:09	4° $\approx$ 48'52	-0°31'01	superior conj	7264 Jan 04 07:44	15° $\mathfrak{Z}$ 31'10	0°12'28
minimum elong	7263 Jan 23 09:35	4° $\approx$ 34'28	0°30'26	minimum elong	7264 Jan 04 08:55	15° $\mathfrak{Z}$ 36'12	0°12'24
max. Earth dist.	7263 Jan 28 15:19	12° $\approx$ 57'12	1.44836 AU	behind sun begin	7264 Jan 04 03:13	15° $\mathfrak{Z}$ 12'06	
evening rise	7263 Feb 08 11:42	29° $\approx$ 50'59		behind sun end	7264 Jan 04 14:37	16° $\mathfrak{Z}$ 00'16	
	7263 Feb 08 14:04	0° $\mathfrak{H}$		desc. node	7264 Jan 06 01:00	18° $\mathfrak{Z}$ 24'35	
	7263 Feb 28 20:19	0° $\mathfrak{Y}$		max. Earth dist.	7264 Jan 11 07:48	27° $\mathfrak{Z}$ 05'47	1.43578 AU
evening max el	7263 Mar 07 22:23	8° $\mathfrak{Y}$ 38'33	20°16'55		7264 Jan 13 03:05	0° $\approx$	
asc. node	7263 Mar 12 22:13	12° $\mathfrak{Y}$ 31'00		evening rise	7264 Jan 19 00:25	9° $\approx$ 16'57	
retrograde	7263 Mar 15 19:06	13° $\mathfrak{Y}$ 13'33			7264 Feb 01 19:05	0° $\mathfrak{H}$	
evening set	7263 Mar 19 16:17	11° $\mathfrak{Y}$ 46'18		evening max el	7264 Feb 18 20:09	22° $\mathfrak{H}$ 15'54	21°26'38
inferior conj	7263 Mar 25 00:31	5° $\mathfrak{Y}$ 41'28	3°08'05	retrograde	7264 Feb 27 17:08	27° $\mathfrak{H}$ 31'09	
minimum elong	7263 Mar 24 22:45	5° $\mathfrak{Y}$ 47'27	3°07'47	asc. node	7264 Feb 27 19:17	27° $\mathfrak{H}$ 31'07	
min. Earth dist.	7263 Mar 25 18:57	4° $\mathfrak{Y}$ 38'46	0.67593 AU	evening set	7264 Mar 03 00:15	25° $\mathfrak{H}$ 48'42	
	7263 Mar 29 14:43	30° $\mathfrak{R}$ $\mathfrak{H}$		inferior conj	7264 Mar 08 07:51	19° $\mathfrak{H}$ 32'39	2°42'43
morning rise	7263 Mar 30 05:01	29° $\mathfrak{H}$ 25'55		minimum elong	7264 Mar 08 05:37	19° $\mathfrak{H}$ 40'25	2°42'11
direct	7263 Apr 04 22:03	26° $\mathfrak{H}$ 53'00		min. Earth dist.	7264 Mar 08 13:18	19° $\mathfrak{H}$ 13'41	0.68165 AU
	7263 Apr 12 05:12	0° $\mathfrak{Y}$		morning rise	7264 Mar 13 10:48	13° $\mathfrak{H}$ 19'56	
morning max el	7263 Apr 16 09:23	3° $\mathfrak{Y}$ 44'57	24°37'19	direct	7264 Mar 18 13:45	11° $\mathfrak{H}$ 06'01	
desc. node	7263 Apr 17 03:32	4° $\mathfrak{Y}$ 31'39		morning max el	7264 Mar 28 18:54	17° $\mathfrak{H}$ 09'36	23°07'45
	7263 May 06 11:20	0° $\mathfrak{B}$		desc. node	7264 Apr 03 00:29	23° $\mathfrak{H}$ 02'14	
morning set	7263 May 22 07:42	25° $\mathfrak{B}$ 48'33			7264 Apr 08 10:08	0° $\mathfrak{Y}$	
	7263 May 24 16:14	0° $\mathfrak{I}$			7264 Apr 28 12:56	0° $\mathfrak{B}$	
max. Earth dist.	7263 May 25 22:36	2° $\mathfrak{I}$ 17'33	1.37389 AU	morning set	7264 May 02 12:08	6° $\mathfrak{B}$ 30'56	
				max. Earth dist.	7264 May 06 18:37	13° $\mathfrak{B}$ 46'14	1.39604 AU
superior conj	7263 Jun 01 17:26	15° $\mathfrak{I}$ 04'01	-1°07'13	superior conj	7264 May 14 10:51	27° $\mathfrak{B}$ 29'14	-1°36'20
minimum elong	7263 Jun 01 21:27	15° $\mathfrak{I}$ 23'27	1°06'37	minimum elong	7264 May 14 16:16	27° $\mathfrak{B}$ 54'13	1°35'44
asc. node	7263 Jun 08 21:19	29° $\mathfrak{I}$ 15'08			7264 May 15 19:23	0° $\mathfrak{I}$	
	7263 Jun 09 06:18	0° $\mathfrak{G}$		evening rise	7264 May 24 00:58	15° $\mathfrak{I}$ 39'43	
evening rise	7263 Jun 10 07:16	2° $\mathfrak{G}$ 04'39		asc. node	7264 May 25 18:22	18° $\mathfrak{I}$ 57'45	
evening max el	7263 Jun 27 01:58	29° $\mathfrak{G}$ 24'38	19°18'13		7264 May 31 19:03	0° $\mathfrak{G}$	
	7263 Jun 27 16:48	0° $\Omega$		evening max el	7264 Jun 09 04:06	11° $\mathfrak{G}$ 39'27	18°34'23
retrograde	7263 Jul 06 07:31	3° $\Omega$ 57'26		retrograde	7264 Jun 17 00:14	15° $\mathfrak{G}$ 32'56	
evening set	7263 Jul 08 05:11	3° $\Omega$ 46'40		evening set	7264 Jun 19 03:30	15° $\mathfrak{G}$ 16'31	
desc. node	7263 Jul 14 02:49	1° $\Omega$ 18'57		inferior conj	7264 Jun 26 21:02	10° $\mathfrak{G}$ 48'55	0°54'37
	7263 Jul 16 04:59	30° $\mathfrak{R}$ $\mathfrak{G}$		minimum elong	7264 Jun 26 22:58	10° $\mathfrak{G}$ 45'12	0°53'51
inferior conj	7263 Jul 16 18:33	29° $\mathfrak{G}$ 37'43	-0°48'23				
minimum elong	7263 Jul 16 16:24	29° $\mathfrak{G}$ 41'15	0°47'39				
min. Earth dist.	7263 Jul 19 11:03	27° $\mathfrak{G}$ 51'50	0.55934 AU				



































































































































desc. node	7264 Jun 29 23:49	8°♄25'14		morning rise	7265 Jun 15 23:20	16°♄55'56	
min. Earth dist.	7264 Jun 30 05:01	8°♄15'40	0.57688 AU	desc. node	7265 Jun 16 20:51	16°♄25'35	
morning rise	7264 Jul 04 15:00	5°♄30'57		direct	7265 Jun 22 10:12	14°♄57'53	
direct	7264 Jul 10 10:19	4°♄05'48		morning max el	7265 Jul 06 18:50	22°♄51'57	27°39'01
morning max el	7264 Jul 24 19:37	11°♄42'32	26°45'40		7265 Jul 13 02:57	0°♄	
	7264 Aug 08 01:17	0°♄			7265 Aug 01 04:04	0°♄	
asc. node	7264 Aug 21 17:41	24°♄57'49		morning set	7265 Aug 07 15:32	12°♄52'48	
morning set	7264 Aug 23 08:53	28°♄22'53		asc. node	7265 Aug 08 14:40	14°♄54'14	
	7264 Aug 24 03:09	0°♄		max. Earth dist.	7265 Aug 13 23:22	26°♄31'33	1.31768 AU
superior conj	7264 Aug 30 07:53	13°♄34'10	1°18'11	superior conj	7265 Aug 14 19:24	28°♄22'13	1°00'00
minimum elong	7264 Aug 30 05:39	13°♄21'49	1°17'51	minimum elong	7265 Aug 14 17:14	28°♄10'12	0°59'33
max. Earth dist.	7264 Aug 30 13:01	14°♄02'39	1.31819 AU		7265 Aug 15 13:05	0°♄	
evening rise	7264 Sep 06 04:16	28°♄29'49		evening rise	7265 Aug 21 13:42	13°♄11'06	
	7264 Sep 06 21:26	0°♄			7265 Aug 29 23:44	0°♄	
	7264 Sep 23 12:36	0°♄		desc. node	7265 Sep 12 19:57	21°♄20'31	
desc. node	7264 Sep 25 22:54	3°♄31'35		evening max el	7265 Sep 18 10:59	27°♄30'05	25°49'12
evening max el	7264 Oct 06 14:23	16°♄08'52	26°53'30		7265 Sep 21 07:59	0°♄	
retrograde	7264 Oct 20 11:58	23°♄18'34		retrograde	7265 Oct 02 09:38	4°♄34'34	
evening set	7264 Oct 27 10:17	21°♄14'33		evening set	7265 Oct 08 15:08	3°♄02'57	
min. Earth dist.	7264 Oct 31 04:35	18°♄36'36	0.60366 AU	min. Earth dist.	7265 Oct 12 23:32	0°♄27'02	0.58294 AU
inferior conj	7264 Nov 03 09:03	15°♄59'10	-4°14'53		7265 Oct 13 15:00	30°♄	
minimum elong	7264 Nov 03 16:02	15°♄44'45	4°12'57	inferior conj	7265 Oct 16 02:40	28°♄12'31	-5°06'31
morning rise	7264 Nov 11 00:03	11°♄14'06		minimum elong	7265 Oct 16 08:17	28°♄02'24	5°05'37
direct	7264 Nov 13 05:53	10°♄54'48		morning rise	7265 Oct 24 03:44	23°♄50'10	
asc. node	7264 Nov 17 17:06	12°♄15'17		direct	7265 Oct 26 12:16	23°♄32'25	
morning max el	7264 Nov 20 15:50	14°♄35'14	18°05'03	morning max el	7265 Nov 03 22:05	27°♄35'17	18°41'16
	7264 Dec 01 05:14	0°♄		asc. node	7265 Nov 04 14:06	28°♄15'10	
morning set	7264 Dec 06 08:36	9°♄26'51			7265 Nov 06 03:45	0°♄	
				morning set	7265 Nov 20 04:00	23°♄36'16	
superior conj	7264 Dec 16 03:38	27°♄26'34	0°48'20		7265 Nov 23 10:44	0°♄	
minimum elong	7264 Dec 16 06:59	27°♄41'31	0°47'56	superior conj	7265 Nov 28 20:16	10°♄20'59	1°14'40
	7264 Dec 17 14:15	0°♄		minimum elong	7265 Nov 28 23:41	10°♄37'01	1°14'20
desc. node	7264 Dec 22 22:01	9°♄10'42		max. Earth dist.	7265 Dec 06 01:49	23°♄30'12	1.39715 AU
max. Earth dist.	7264 Dec 23 19:13	10°♄39'42	1.41800 AU	desc. node	7265 Dec 09 19:03	29°♄54'32	
evening rise	7264 Dec 29 03:08	19°♄24'05			7265 Dec 09 20:21	0°♄	
	7265 Jan 04 21:23	0°♄		evening rise	7265 Dec 10 03:16	0°♄29'13	
	7265 Jan 26 06:35	0°♄			7265 Dec 29 06:38	0°♄	
evening max el	7265 Jan 31 13:08	5°♄55'20	22°44'20	evening max el	7266 Jan 14 03:13	19°♄38'50	24°04'26
retrograde	7265 Feb 10 13:15	11°♄51'38		retrograde	7266 Jan 25 06:03	26°♄10'54	
asc. node	7265 Feb 13 16:19	11°♄01'53		evening set	7266 Jan 30 12:45	23°♄59'01	
evening set	7265 Feb 15 07:34	9°♄54'07		asc. node	7266 Jan 31 13:21	23°♄01'54	
inferior conj	7265 Feb 20 16:19	3°♄30'10	2°08'21	min. Earth dist.	7266 Feb 04 06:22	18°♄31'26	0.68082 AU
minimum elong	7265 Feb 20 14:03	3°♄38'01	2°07'40	inferior conj	7266 Feb 05 00:07	17°♄31'21	1°25'49
min. Earth dist.	7265 Feb 20 09:52	3°♄52'33	0.68322 AU	minimum elong	7266 Feb 04 22:18	17°♄37'30	1°25'12
	7265 Feb 23 07:32	30°♄		morning rise	7266 Feb 10 07:53	11°♄28'29	
morning rise	7265 Feb 25 20:26	27°♄21'36		direct	7266 Feb 14 07:08	9°♄58'59	
direct	7265 Mar 02 09:10	25°♄29'45		morning max el	7266 Feb 22 04:10	14°♄27'44	20°23'44
	7265 Mar 10 14:36	0°♄			7266 Mar 06 08:55	0°♄	
morning max el	7265 Mar 11 08:08	0°♄42'49	21°40'51	desc. node	7266 Mar 07 18:28	2°♄00'49	
desc. node	7265 Mar 20 21:28	12°♄15'49		morning set	7266 Mar 22 14:18	24°♄19'35	
	7265 Apr 02 05:47	0°♄			7266 Mar 26 05:40	0°♄	
morning set	7265 Apr 12 12:39	15°♄55'06		max. Earth dist.	7266 Apr 01 01:08	9°♄13'37	1.43593 AU
max. Earth dist.	7265 Apr 18 18:12	26°♄02'33	1.41763 AU				
	7265 Apr 21 03:04	0°♄		superior conj	7266 Apr 07 06:59	19°♄24'52	-2°10'45
superior conj	7265 Apr 26 08:46	8°♄58'50	-1°59'21	minimum elong	7266 Apr 07 08:09	19°♄29'41	2°10'46
minimum elong	7265 Apr 26 13:47	9°♄20'43	1°59'04		7266 Apr 13 13:49	0°♄	
evening rise	7265 May 07 06:26	28°♄37'02		evening rise	7266 Apr 19 19:18	10°♄47'14	
	7265 May 08 00:31	0°♄		asc. node	7266 Apr 29 12:27	27°♄24'06	
asc. node	7265 May 12 15:24	8°♄22'41			7266 May 01 04:20	0°♄	
evening max el	7265 May 23 13:20	24°♄26'24	18°10'47	evening max el	7266 May 07 02:04	7°♄36'23	18°06'32
retrograde	7265 May 30 11:14	27°♄55'48		retrograde	7266 May 13 12:59	10°♄57'19	
evening set	7265 Jun 01 21:56	22°♄30'11		evening set	7266 May 16 06:55	10°♄20'01	
inferior conj	7265 Jun 08 20:52	22°♄42'21	2°09'37	inferior conj	7266 May 22 14:55	5°♄12'26	2°56'35
minimum elong	7265 Jun 09 00:03	22°♄35'09	2°08'38	minimum elong	7266 May 22 17:29	5°♄05'49	2°56'02
min. Earth dist.	7265 Jun 12 05:28	19°♄42'16	0.59847 AU	min. Earth dist.	7266 May 25 14:03	2°♄10'18	0.62082 AU

	7266 May 27 23:25	30° 		minimum elong	7267 May 06 00:14	18° 	3°20'17
morning rise	7266 May 29 02:13	29° 	08'30	min. Earth dist.	7267 May 08 07:49	15° 	0.64122 AU
desc. node	7266 Jun 03 17:53	26° 	46'18	morning rise	7267 May 11 21:33	11° 	57'56
direct	7266 Jun 04 20:42	26° 	42'27	direct	7267 May 18 15:35	9° 	14'51
	7266 Jun 13 12:00	0° 		desc. node	7267 May 21 14:55	9° 	42'42
morning max el	7266 Jun 18 23:59	4° 	43'53 27°54'42	morning max el	7267 Jun 01 09:04	17° 	14'01 27°33'30
	7266 Jul 07 21:42	0° 			7267 Jun 11 23:50	0° 	
morning set	7266 Jul 22 16:52	27° 	04'12		7267 Jun 30 17:48	0° 	
	7266 Jul 24 03:04	0° 		morning set	7267 Jul 06 10:27	10° 	49'46
asc. node	7266 Jul 26 11:42	4° 	57'50	max. Earth dist.	7267 Jul 11 07:11	20° 	43'01 1.33043 AU
max. Earth dist.	7266 Jul 28 06:41	8° 	48'31 1.32171 AU	asc. node	7267 Jul 13 08:45	25° 	04'05
superior conj	7266 Jul 30 05:01	13° 	00'27 0°37'27	superior conj	7267 Jul 14 10:46	27° 	22'46 0°11'05
minimum elong	7266 Jul 30 03:24	12° 	51'37 0°37'03	minimum elong	7267 Jul 14 10:13	27° 	19'51 0°10'54
evening rise	7266 Aug 06 01:08	27° 	55'06	behind sun begin	7267 Jul 14 06:14	26° 	58'30
	7266 Aug 07 00:38	0° 		behind sun end	7267 Jul 14 14:13	27° 	41'13
	7266 Aug 24 00:52	0° 			7267 Jul 15 16:05	0° 	
desc. node	7266 Aug 30 17:01	7° 	48'06	evening rise	7267 Jul 21 12:41	12° 	35'40
evening max el	7266 Aug 31 00:42	8° 	06'45 24°20'13		7267 Jul 30 08:14	0° 	
retrograde	7266 Sep 13 19:30	15° 	02'01	evening max el	7267 Aug 12 12:53	18° 	22'02 22°41'26
evening set	7266 Sep 18 19:19	14° 	06'51	desc. node	7267 Aug 17 14:04	22° 	24'24
min. Earth dist.	7266 Sep 24 11:38	11° 	14'37 0.56456 AU	retrograde	7267 Aug 25 16:44	24° 	55'57
inferior conj	7266 Sep 27 00:07	9° 	39'57 -5°29'37	evening set	7267 Aug 29 04:10	24° 	29'28
minimum elong	7266 Sep 27 00:28	9° 	39'24 5°29'36	min. Earth dist.	7267 Sep 05 20:30	21° 	05'01 0.55166 AU
morning rise	7266 Oct 05 07:49	5° 	38'36	inferior conj	7267 Sep 07 02:58	20° 	21'39 -5°06'05
direct	7266 Oct 07 23:51	5° 	19'37	minimum elong	7267 Sep 06 20:13	20° 	31'16 5°05'04
morning max el	7266 Oct 17 17:48	9° 	54'54 19°39'27	morning rise	7267 Sep 15 14:16	16° 	32'53
asc. node	7266 Oct 22 11:07	15° 	23'25	direct	7267 Sep 18 17:30	16° 	10'17
	7266 Oct 31 04:29	0° 		morning max el	7267 Sep 30 00:52	21° 	27'20 20°59'44
morning set	7266 Nov 04 07:03	8° 	06'25		7267 Oct 07 02:59	0° 	
superior conj	7266 Nov 12 04:31	24° 	00'02 1°31'40	asc. node	7267 Oct 09 08:10	3° 	25'17
minimum elong	7266 Nov 12 06:53	24° 	11'44 1°31'32	morning set	7267 Oct 19 15:04	22° 	49'54
	7266 Nov 15 06:26	0° 			7267 Oct 23 01:31	0° 	
max. Earth dist.	7266 Nov 18 07:23	5° 	44'19 1.37577 AU	superior conj	7267 Oct 27 00:01	8° 	11'38 1°40'21
evening rise	7266 Nov 22 01:14	12° 	32'33	minimum elong	7267 Oct 27 01:00	8° 	16'40 1°40'22
desc. node	7266 Nov 26 16:05	20° 	32'12	max. Earth dist.	7267 Oct 31 16:49	17° 	40'13 1.35613 AU
	7266 Dec 02 11:26	0° 		evening rise	7267 Nov 04 17:56	25° 	26'26
	7266 Dec 24 09:50	0° 			7267 Nov 07 05:20	0° 	
evening max el	7266 Dec 27 16:21	3° 	25'23 25°20'07	desc. node	7267 Nov 13 13:07	10° 	35'27
retrograde	7267 Jan 08 18:25	10° 	23'29		7267 Nov 25 23:23	0° 	
evening set	7267 Jan 14 14:09	7° 	58'55	evening max el	7267 Dec 10 05:28	17° 	31'02 26°24'02
asc. node	7267 Jan 18 10:25	3° 	50'19	retrograde	7267 Dec 23 01:37	24° 	23'58
min. Earth dist.	7267 Jan 19 00:24	3° 	05'53 0.67467 AU	evening set	7267 Dec 29 10:02	21° 	34'57
inferior conj	7267 Jan 20 05:23	1° 	32'09 0°35'41	min. Earth dist.	7268 Jan 02 13:41	17° 	31'55 0.66488 AU
minimum elong	7267 Jan 20 04:30	1° 	34'59 0°35'25	inferior conj	7268 Jan 04 06:10	15° 	29'16 -0°21'20
	7267 Jan 21 10:14	30° 		minimum elong	7268 Jan 04 06:44	15° 	27'31 0°21'01
morning rise	7267 Jan 25 19:10	25° 	37'04	asc. node	7268 Jan 05 07:28	14° 	31'23
direct	7267 Jan 29 06:13	24° 	38'08	morning rise	7268 Jan 10 04:11	9° 	44'15
morning max el	7267 Feb 05 08:13	28° 	23'48 19°20'30	direct	7268 Jan 13 04:38	8° 	52'51
	7267 Feb 06 20:41	0° 		morning max el	7268 Jan 19 19:16	12° 	27'40 18°33'07
greatest brilliancy	7267 Feb 18 10:36	15° 	46'56 -0.7m		7268 Feb 01 13:47	0° 	
desc. node	7267 Feb 22 15:27	22° 	08'08	morning set	7268 Feb 09 08:59	12° 	18'07
	7267 Feb 27 18:29	0° 		desc. node	7268 Feb 09 12:27	12° 	31'49
morning set	7267 Mar 01 13:18	2° 	45'13		7268 Feb 20 14:33	0° 	
max. Earth dist.	7267 Mar 14 15:22	23° 	09'40 1.44865 AU	superior conj	7268 Feb 25 10:20	7° 	33'31 -1°38'26
superior conj	7267 Mar 18 04:39	28° 	47'44 -2°04'38	minimum elong	7268 Feb 25 00:44	6° 	55'59 1°37'30
minimum elong	7267 Mar 17 23:04	28° 	25'28 2°04'22	max. Earth dist.	7268 Feb 25 09:57	7° 	32'04 1.45439 AU
	7267 Mar 18 22:47	0° 			7268 Mar 10 16:24	0° 	
evening rise	7267 Apr 01 11:04	22° 	01'37	evening rise	7268 Mar 12 03:26	2° 	19'04
	7267 Apr 06 06:10	0° 		greatest brilliancy	7268 Mar 20 23:02	16° 	18'10 -0.8m
asc. node	7267 Apr 16 09:32	15°	53'53		7268 Mar 30 05:11	0°	
evening max el	7267 Apr 20 15:06	21°	00'36 18°20'55	asc. node	7268 Apr 02 06:36	3°	42'22
retrograde	7267 Apr 27 01:03	24°	27'23	evening max el	7268 Apr 03 01:45	4°	32'41 18°53'13
evening set	7267 Apr 30 01:56	23°	37'01	retrograde	7268 Apr 09 19:34	8°	18'11
inferior conj	7267 May 05 23:02	18°	11'01 3°20'27	evening set	7268 Apr 13 03:35	7°	13'59

inferior conj	7268 Apr 18 17:24	1° $\text{B}$ 31'15	3°26'19	evening max el	7269 Mar 17 08:02	18° $\text{Y}$ 08'15	19°42'10
minimum elong	7268 Apr 18 17:12	1° $\text{B}$ 31'50	3°26'15	asc. node	7269 Mar 20 03:39	20° $\text{Y}$ 37'08	
	7268 Apr 19 22:26	30° $\text{R}$ $\text{Y}$		retrograde	7269 Mar 24 17:16	22° $\text{Y}$ 23'09	
min. Earth dist.	7268 Apr 20 10:40	29° $\text{Y}$ 22'03	0.65807 AU	evening set	7269 Mar 28 09:14	21° $\text{Y}$ 04'35	
morning rise	7268 Apr 24 06:20	25° $\text{Y}$ 14'35		inferior conj	7269 Apr 02 18:47	15° $\text{Y}$ 07'09	3°18'07
direct	7268 Apr 30 17:37	22° $\text{Y}$ 26'53		minimum elong	7269 Apr 02 17:29	15° $\text{Y}$ 11'29	3°17'56
desc. node	7268 May 07 11:56	24° $\text{Y}$ 50'51		min. Earth dist.	7269 Apr 03 21:15	13° $\text{Y}$ 39'08	0.67063 AU
	7268 May 13 14:44	0° $\text{B}$		morning rise	7269 Apr 08 01:27	8° $\text{Y}$ 50'21	
morning max el	7268 May 13 19:32	0° $\text{B}$ 12'04	26°41'10	direct	7269 Apr 14 01:49	6° $\text{Y}$ 09'21	
	7268 Jun 04 22:54	0° $\text{II}$		desc. node	7269 Apr 24 08:55	11° $\text{Y}$ 38'16	
morning set	7268 Jun 18 17:04	24° $\text{II}$ 01'02		morning max el	7269 Apr 26 05:16	13° $\text{Y}$ 25'43	25°26'26
	7268 Jun 21 19:24	0° $\text{B}$			7269 May 09 15:18	0° $\text{B}$	
max. Earth dist.	7268 Jun 22 21:38	2° $\text{B}$ 09'46	1.34393 AU		7269 May 28 17:24	0° $\text{II}$	
				morning set	7269 Jun 01 08:33	6° $\text{II}$ 26'41	
superior conj	7268 Jun 27 10:25	11° $\text{B}$ 23'01	-0°18'17	max. Earth dist.	7269 Jun 05 01:07	13° $\text{II}$ 15'27	1.36188 AU
minimum elong	7268 Jun 27 11:26	11° $\text{B}$ 28'16	0°18'10				
asc. node	7268 Jun 29 05:47	15° $\text{B}$ 09'04		superior conj	7269 Jun 11 01:14	24° $\text{II}$ 54'12	-0°49'20
evening rise	7268 Jul 04 22:23	27° $\text{B}$ 06'58		minimum elong	7269 Jun 11 04:08	25° $\text{II}$ 08'41	0°48'52
	7268 Jul 06 07:48	0° $\text{Q}$			7269 Jun 13 14:05	0° $\text{B}$	
evening max el	7268 Jul 24 08:12	28° $\text{Q}$ 51'00	21°08'51	asc. node	7269 Jun 16 02:48	5° $\text{B}$ 09'05	
	7268 Jul 25 13:42	0° $\text{R}$		evening rise	7269 Jun 19 04:03	11° $\text{B}$ 22'48	
desc. node	7268 Aug 03 11:08	4° $\text{R}$ 36'49			7269 Jun 29 02:14	0° $\text{Q}$	
retrograde	7268 Aug 05 05:52	4° $\text{R}$ 44'33		evening max el	7269 Jul 06 16:16	9° $\text{Q}$ 59'50	19°52'51
evening set	7268 Aug 07 13:03	4° $\text{R}$ 32'11		retrograde	7269 Jul 16 21:20	15° $\text{Q}$ 01'14	
inferior conj	7268 Aug 16 19:52	0° $\text{R}$ 34'31	-3°48'44	evening set	7269 Jul 18 18:15	14° $\text{Q}$ 51'51	
minimum elong	7268 Aug 16 10:36	0° $\text{R}$ 47'33	3°46'02	desc. node	7269 Jul 21 08:11	14° $\text{Q}$ 10'28	
min. Earth dist.	7268 Aug 17 05:46	0° $\text{R}$ 20'35	0.54711 AU	inferior conj	7269 Jul 27 17:20	10° $\text{Q}$ 51'04	-1°55'59
	7268 Aug 17 20:25	30° $\text{R}$ $\text{Q}$		minimum elong	7269 Jul 27 11:59	10° $\text{Q}$ 59'14	1°54'03
morning rise	7268 Aug 25 08:44	26° $\text{Q}$ 39'48		min. Earth dist.	7269 Jul 29 17:36	9° $\text{Q}$ 37'29	0.55226 AU
direct	7268 Aug 29 01:42	26° $\text{Q}$ 10'18		morning rise	7269 Aug 05 03:48	6° $\text{Q}$ 29'55	
	7268 Sep 08 04:21	0° $\text{R}$		direct	7269 Aug 09 14:53	5° $\text{Q}$ 46'09	
morning max el	7268 Sep 10 20:32	2° $\text{R}$ 14'55	22°37'51	morning max el	7269 Aug 23 10:00	12° $\text{Q}$ 35'20	24°23'05
asc. node	7268 Sep 25 05:11	22° $\text{R}$ 07'25			7269 Sep 05 18:36	0° $\text{R}$	
	7268 Sep 29 08:28	0° $\text{Q}$		asc. node	7269 Sep 12 02:11	11° $\text{R}$ 20'01	
morning set	7268 Oct 03 01:49	7° $\text{Q}$ 39'23		morning set	7269 Sep 17 13:32	22° $\text{R}$ 29'55	
					7269 Sep 21 00:57	0° $\text{Q}$	
superior conj	7268 Oct 10 03:11	22° $\text{Q}$ 44'21	1°41'48				
minimum elong	7268 Oct 10 02:50	22° $\text{Q}$ 42'30	1°41'51	superior conj	7269 Sep 24 11:21	7° $\text{Q}$ 30'04	1°36'57
max. Earth dist.	7268 Oct 13 09:32	29° $\text{Q}$ 36'08	1.33988 AU	minimum elong	7269 Sep 24 09:57	7° $\text{Q}$ 22'29	1°36'53
	7268 Oct 13 14:08	0° $\text{R}$		max. Earth dist.	7269 Sep 26 10:30	11° $\text{Q}$ 45'42	1.32796 AU
evening rise	7268 Oct 18 01:14	8° $\text{R}$ 59'33		evening rise	7269 Oct 01 19:32	23° $\text{Q}$ 02'35	
	7268 Oct 29 17:04	0° $\text{R}$			7269 Oct 05 07:47	0° $\text{R}$	
desc. node	7268 Oct 30 10:09	1° $\text{R}$ 09'58		desc. node	7269 Oct 17 07:12	20° $\text{R}$ 56'24	
	7268 Nov 21 00:05	0° $\text{B}$			7269 Oct 23 10:21	0° $\text{R}$	
evening max el	7268 Nov 21 18:17	0° $\text{B}$ 44'18	27°09'04	evening max el	7269 Nov 04 05:43	13° $\text{R}$ 56'25	27°28'16
retrograde	7268 Dec 05 03:07	8° $\text{B}$ 03'58		retrograde	7269 Nov 17 22:16	21° $\text{R}$ 14'32	
evening set	7268 Dec 11 22:15	5° $\text{B}$ 26'18		evening set	7269 Nov 25 00:07	18° $\text{R}$ 41'41	
min. Earth dist.	7268 Dec 15 19:57	1° $\text{B}$ 42'41	0.65149 AU	min. Earth dist.	7269 Nov 28 17:17	15° $\text{R}$ 29'36	0.63480 AU
	7268 Dec 17 08:54	30° $\text{R}$ $\text{R}$		inferior conj	7269 Dec 01 08:53	12° $\text{R}$ 49'44	-2°31'20
inferior conj	7268 Dec 18 00:12	29° $\text{R}$ 17'08	-1°24'19	minimum elong	7269 Dec 01 13:33	12° $\text{R}$ 37'59	2°29'27
minimum elong	7268 Dec 18 02:42	29° $\text{R}$ 10'10	1°23'11	morning rise	7269 Dec 08 04:47	7° $\text{R}$ 33'03	
asc. node	7268 Dec 22 04:31	25° $\text{R}$ 07'25		asc. node	7269 Dec 09 01:32	7° $\text{R}$ 16'45	
morning rise	7268 Dec 24 08:25	23° $\text{R}$ 44'51		direct	7269 Dec 10 14:15	7° $\text{R}$ 05'20	
direct	7268 Dec 27 00:13	23° $\text{R}$ 07'15		morning max el	7269 Dec 17 04:07	10° $\text{R}$ 29'48	17°48'52
morning max el	7269 Jan 02 10:53	26° $\text{R}$ 32'11	18°02'21		7269 Dec 30 07:45	0° $\text{B}$	
	7269 Jan 05 11:27	0° $\text{B}$		morning set	7270 Jan 02 13:46	5° $\text{B}$ 37'06	
morning set	7269 Jan 20 10:10	23° $\text{B}$ 19'16		desc. node	7270 Jan 13 06:23	23° $\text{B}$ 48'26	
	7269 Jan 24 11:41	0° $\text{B}$					
desc. node	7269 Jan 26 09:25	3° $\text{B}$ 06'32		superior conj	7270 Jan 14 22:11	26° $\text{B}$ 32'45	-0°11'56
				minimum elong	7270 Jan 14 20:54	26° $\text{B}$ 27'29	0°11'39
superior conj	7269 Feb 03 18:27	16° $\text{B}$ 33'25	-0°57'18	behind sun begin	7270 Jan 14 14:14	26° $\text{B}$ 00'01	
minimum elong	7269 Feb 03 11:40	16° $\text{B}$ 06'33	0°56'22	behind sun end	7270 Jan 15 03:35	26° $\text{B}$ 54'55	
max. Earth dist.	7269 Feb 07 05:27	22° $\text{B}$ 00'54	1.45263 AU		7270 Jan 17 00:53	0° $\text{B}$	
	7269 Feb 12 08:00	0° $\text{B}$		max. Earth dist.	7270 Jan 20 23:19	6° $\text{B}$ 20'11	1.44373 AU
evening rise	7269 Feb 19 23:27	11° $\text{B}$ 51'01		evening rise	7270 Jan 30 10:17	21° $\text{B}$ 08'00	
	7269 Mar 03 20:07	0° $\text{Y}$			7270 Feb 05 05:58	0° $\text{B}$	
greatest brilliancy	7269 Mar 05 13:35	2° $\text{Y}$ 34'51	-0.7m		7270 Feb 26 17:42	0° $\text{Y}$	

evening max el	7270 Feb 28 08:58	1° $\Upsilon$ 45'20	20°45'21	max. Earth dist.	7271 Jan 03 13:43	20° $\mathfrak{Z}$ 15'37	1.42873 AU
asc. node	7270 Mar 07 00:41	6° $\Upsilon$ 23'32			7271 Jan 09 15:09	0° $\approx$	
retrograde	7270 Mar 08 15:42	6° $\Upsilon$ 37'16		evening rise	7271 Jan 10 03:37	0° $\approx$ 49'00	
evening set	7270 Mar 12 16:50	5° $\Upsilon$ 03'48			7271 Jan 29 19:25	0° $\mathfrak{H}$	
	7270 Mar 17 05:17	30° $\mathfrak{R}$ $\mathfrak{H}$		evening max el	7271 Feb 11 04:43	15° $\mathfrak{H}$ 24'39	21°59'05
inferior conj	7270 Mar 18 00:34	28° $\mathfrak{H}$ 53'56	2°58'29	retrograde	7271 Feb 20 13:00	20° $\mathfrak{H}$ 57'09	
minimum elong	7270 Mar 17 22:34	29° $\mathfrak{H}$ 00'52	2°58'05	asc. node	7271 Feb 21 21:44	20° $\mathfrak{H}$ 47'32	
min. Earth dist.	7270 Mar 18 13:25	28° $\mathfrak{H}$ 09'42	0.67888 AU	evening set	7271 Feb 25 00:44	19° $\mathfrak{H}$ 08'23	
morning rise	7270 Mar 23 04:03	22° $\mathfrak{H}$ 39'13		inferior conj	7271 Mar 02 08:38	12° $\mathfrak{H}$ 48'50	2°29'11
direct	7270 Mar 28 15:13	20° $\mathfrak{H}$ 13'32		minimum elong	7271 Mar 02 06:20	12° $\mathfrak{H}$ 56'50	2°28'35
morning max el	7270 Apr 08 14:03	26° $\mathfrak{H}$ 46'18	23°59'19	min. Earth dist.	7271 Mar 02 09:00	12° $\mathfrak{H}$ 47'35	0.68285 AU
desc. node	7270 Apr 11 05:54	29° $\mathfrak{H}$ 37'17		morning rise	7271 Mar 07 11:46	6° $\mathfrak{H}$ 37'44	
	7270 Apr 11 13:55	0° $\Upsilon$		direct	7271 Mar 12 08:46	4° $\mathfrak{H}$ 32'46	
	7270 May 03 05:50	0° $\mathfrak{B}$		morning max el	7271 Mar 22 00:32	10° $\mathfrak{H}$ 14'07	22°29'56
morning set	7270 May 14 03:22	17° $\mathfrak{B}$ 50'51		desc. node	7271 Mar 29 02:52	18° $\mathfrak{H}$ 28'16	
max. Earth dist.	7270 May 17 21:16	24° $\mathfrak{B}$ 24'06	1.38318 AU		7271 Apr 06 13:48	0° $\Upsilon$	
	7270 May 20 23:39	0° $\mathfrak{I}$		morning set	7271 Apr 24 20:06	28° $\Upsilon$ 00'15	
					7271 Apr 26 01:16	0° $\mathfrak{B}$	
superior conj	7270 May 25 03:39	7° $\mathfrak{I}$ 46'31	-1°20'02	max. Earth dist.	7271 Apr 29 18:10	6° $\mathfrak{B}$ 11'44	1.40556 AU
minimum elong	7270 May 25 08:22	8° $\mathfrak{I}$ 08'59	1°19'24				
asc. node	7270 Jun 02 23:49	24° $\mathfrak{I}$ 59'14		superior conj	7271 May 07 13:25	19° $\mathfrak{B}$ 50'11	-1°47'08
evening rise	7270 Jun 03 03:00	25° $\mathfrak{I}$ 14'50		minimum elong	7271 May 07 18:59	20° $\mathfrak{B}$ 15'15	1°46'39
	7270 Jun 05 13:29	0° $\mathfrak{E}$			7271 May 13 02:19	0° $\mathfrak{I}$	
evening max el	7270 Jun 19 12:45	21° $\mathfrak{E}$ 52'28	18°57'06	evening rise	7271 May 17 16:00	8° $\mathfrak{I}$ 35'17	
retrograde	7270 Jun 28 02:43	26° $\mathfrak{E}$ 06'19		asc. node	7271 May 20 20:51	14° $\mathfrak{I}$ 35'10	
evening set	7270 Jun 30 02:20	25° $\mathfrak{E}$ 53'39			7271 May 30 01:57	0° $\mathfrak{E}$	
inferior conj	7270 Jul 08 07:28	21° $\mathfrak{E}$ 37'41	-0°01'42	evening max el	7271 Jun 02 18:26	4° $\mathfrak{E}$ 22'30	18°21'52
minimum elong	7270 Jul 08 07:24	21° $\mathfrak{E}$ 37'49	0°01'46	retrograde	7271 Jun 10 03:25	8° $\mathfrak{E}$ 03'24	
transit middle	7270 Jul 08 07:24	21° $\mathfrak{E}$ 37'49	0°01'46	evening set	7271 Jun 12 09:59	7° $\mathfrak{E}$ 43'18	
transit begin	7270 Jul 08 03:40	21° $\mathfrak{E}$ 44'22		inferior conj	7271 Jun 19 19:14	3° $\mathfrak{E}$ 06'55	1°30'04
transit end	7270 Jul 08 11:08	21° $\mathfrak{E}$ 31'15		minimum elong	7271 Jun 19 22:00	3° $\mathfrak{E}$ 01'10	1°29'04
desc. node	7270 Jul 08 05:13	21° $\mathfrak{E}$ 41'39		min. Earth dist.	7271 Jun 23 05:00	0° $\mathfrak{E}$ 19'34	0.58590 AU
min. Earth dist.	7270 Jul 11 08:48	19° $\mathfrak{E}$ 29'30	0.56613 AU		7271 Jun 23 15:09	30° $\mathfrak{R}$ $\mathfrak{I}$	
morning rise	7270 Jul 16 09:09	16° $\mathfrak{E}$ 40'21		desc. node	7271 Jun 25 02:15	28° $\mathfrak{I}$ 56'17	
direct	7270 Jul 21 17:26	15° $\mathfrak{E}$ 32'26		morning rise	7271 Jun 27 06:49	27° $\mathfrak{I}$ 35'55	
morning max el	7270 Aug 04 23:49	22° $\mathfrak{E}$ 54'52	25°59'59	direct	7271 Jul 03 09:47	25° $\mathfrak{I}$ 56'47	
	7270 Aug 11 07:54	0° $\mathfrak{Q}$			7271 Jul 13 13:06	0° $\mathfrak{E}$	
asc. node	7270 Aug 29 23:10	0° $\mathfrak{M}$ 54'33		morning max el	7271 Jul 17 19:00	3° $\mathfrak{E}$ 41'03	27°12'40
	7270 Aug 29 12:23	0° $\mathfrak{M}$			7271 Aug 05 23:38	0° $\mathfrak{Q}$	
morning set	7270 Sep 02 00:35	7° $\mathfrak{M}$ 16'21		asc. node	7271 Aug 16 20:10	20° $\mathfrak{Q}$ 44'44	
				morning set	7271 Aug 17 09:22	21° $\mathfrak{Q}$ 53'59	
					7271 Aug 21 03:45	0° $\mathfrak{M}$	
superior conj	7270 Sep 08 22:16	22° $\mathfrak{M}$ 21'21	1°26'31				
minimum elong	7270 Sep 08 20:13	22° $\mathfrak{M}$ 10'02	1°26'16	superior conj	7271 Aug 24 10:05	7° $\mathfrak{M}$ 12'17	1°11'02
max. Earth dist.	7270 Sep 09 17:54	24° $\mathfrak{M}$ 09'40	1.32052 AU	minimum elong	7271 Aug 24 07:49	6° $\mathfrak{M}$ 59'44	1°10'38
	7270 Sep 12 09:53	0° $\mathfrak{L}$		max. Earth dist.	7271 Aug 24 04:26	6° $\mathfrak{M}$ 40'55	1.31750 AU
evening rise	7270 Sep 15 21:40	7° $\mathfrak{L}$ 26'29		evening rise	7271 Aug 31 05:06	22° $\mathfrak{M}$ 03'39	
	7270 Sep 27 18:55	0° $\mathfrak{M}$			7271 Sep 04 01:17	0° $\mathfrak{L}$	
desc. node	7270 Oct 04 04:16	10° $\mathfrak{M}$ 08'53		desc. node	7271 Sep 21 01:20	28° $\mathfrak{L}$ 33'35	
evening max el	7270 Oct 17 13:31	26° $\mathfrak{M}$ 33'58	27°16'03		7271 Sep 22 03:33	0° $\mathfrak{M}$	
	7270 Oct 21 16:00	0° $\mathfrak{X}$		evening max el	7271 Sep 29 14:51	8° $\mathfrak{M}$ 24'55	26°29'53
retrograde	7270 Oct 31 09:58	3° $\mathfrak{X}$ 46'23		retrograde	7271 Oct 13 12:53	15° $\mathfrak{M}$ 31'33	
evening set	7270 Nov 07 12:07	1° $\mathfrak{X}$ 29'00		evening set	7271 Oct 20 05:43	13° $\mathfrak{M}$ 40'28	
	7270 Nov 09 14:08	30° $\mathfrak{R}$ $\mathfrak{M}$		min. Earth dist.	7271 Oct 24 04:21	11° $\mathfrak{M}$ 05'38	0.59474 AU
min. Earth dist.	7270 Nov 11 04:14	28° $\mathfrak{M}$ 41'40	0.61546 AU	inferior conj	7271 Oct 27 09:27	8° $\mathfrak{M}$ 36'06	-4°39'14
inferior conj	7270 Nov 14 05:09	25° $\mathfrak{M}$ 59'21	-3°38'38	minimum elong	7271 Oct 27 16:16	8° $\mathfrak{M}$ 22'50	4°37'39
minimum elong	7270 Nov 14 11:39	25° $\mathfrak{M}$ 44'50	3°36'29	morning rise	7271 Nov 04 05:03	4° $\mathfrak{M}$ 00'23	
morning rise	7270 Nov 21 13:18	21° $\mathfrak{M}$ 01'34		direct	7271 Nov 06 11:37	3° $\mathfrak{M}$ 41'57	
direct	7270 Nov 23 19:28	20° $\mathfrak{M}$ 40'04		asc. node	7271 Nov 12 19:34	6° $\mathfrak{M}$ 13'34	
asc. node	7270 Nov 25 22:32	20° $\mathfrak{M}$ 59'53		morning max el	7271 Nov 14 06:27	7° $\mathfrak{M}$ 30'40	18°17'54
morning max el	7270 Nov 30 19:46	24° $\mathfrak{M}$ 12'23	17°53'36		7271 Nov 28 15:52	0° $\mathfrak{X}$	
	7270 Dec 05 12:13	0° $\mathfrak{X}$		morning set	7271 Nov 30 02:43	2° $\mathfrak{X}$ 45'09	
morning set	7270 Dec 16 13:16	18° $\mathfrak{X}$ 51'47					
	7270 Dec 22 17:24	0° $\mathfrak{Z}$					
				superior conj	7271 Dec 09 09:13	20° $\mathfrak{X}$ 09'18	1°00'42
superior conj	7270 Dec 27 03:53	7° $\mathfrak{Z}$ 47'11	0°28'48	minimum elong	7271 Dec 09 12:48	20° $\mathfrak{X}$ 25'36	1°00'18
minimum elong	7270 Dec 27 06:18	7° $\mathfrak{Z}$ 57'41	0°28'32		7271 Dec 14 21:50	0° $\mathfrak{Z}$	
desc. node	7270 Dec 31 03:24	14° $\mathfrak{Z}$ 34'09		max. Earth dist.	7271 Dec 16 23:26	3° $\mathfrak{Z}$ 33'33	1.40934 AU

desc. node	7271 Dec 18 00:26	5°  19'39		desc. node	7272 Dec 03 21:29	26°  01'38	
evening rise	7271 Dec 21 15:00	11°  19'47			7272 Dec 06 06:35	0° 	
	7272 Jan 02 14:09	0° 			7272 Dec 26 11:15	0° 	
evening max el	7272 Jan 24 20:19	29°  06'07	23°18'31	evening max el	7273 Jan 06 09:38	12°  50'34	24°37'31
	7272 Jan 25 18:22	0° 		retrograde	7273 Jan 17 22:49	19°  35'21	
retrograde	7272 Feb 04 07:44	5°  17'59		evening set	7273 Jan 23 11:08	17°  17'28	
asc. node	7272 Feb 08 18:47	3°  39'10		asc. node	7273 Jan 25 15:51	15°  04'50	
evening set	7272 Feb 09 07:20	3°  14'04		min. Earth dist.	7273 Jan 28 01:22	12°  04'42	0.67866 AU
	7272 Feb 12 07:47	30° 		inferior conj	7273 Jan 28 23:59	10°  49'27	1°05'27
min. Earth dist.	7272 Feb 14 05:42	27°  27'12	0.68270 AU	minimum elong	7273 Jan 28 22:30	10°  54'22	1°04'56
inferior conj	7272 Feb 14 17:03	26°  48'11	1°51'16	morning rise	7273 Feb 03 10:03	4°  49'51	
minimum elong	7272 Feb 14 14:55	26°  55'31	1°50'36	direct	7273 Feb 07 03:52	3°  29'37	
morning rise	7272 Feb 19 22:26	20°  42'07		morning max el	7273 Feb 14 16:00	7°  42'50	19°55'02
direct	7272 Feb 24 05:22	18°  59'52		desc. node	7273 Mar 01 20:50	27°  51'43	
morning max el	7272 Mar 03 16:25	23°  52'23	21°06'38		7273 Mar 03 07:17	0° 	
	7272 Mar 09 01:05	0° 		morning set	7273 Mar 13 06:52	15°  10'48	
desc. node	7272 Mar 14 23:51	7°  56'26			7273 Mar 22 18:41	0° 	
	7272 Mar 29 22:39	0° 		max. Earth dist.	7273 Mar 24 07:37	2°  26'39	1.44208 AU
morning set	7272 Apr 03 09:30	6°  54'45		superior conj	7273 Mar 29 13:07	10°  51'27	-2°10'35
max. Earth dist.	7272 Apr 10 21:25	18°  54'41	1.42604 AU	minimum elong	7273 Mar 29 11:33	10°  45'05	2°10'34
	7272 Apr 17 13:04	0° 			7273 Apr 10 00:46	0° 	
superior conj	7272 Apr 18 01:43	0°  53'51	-2°05'58	evening rise	7273 Apr 11 19:26	3°  02'02	
minimum elong	7272 Apr 18 05:35	1°  10'21	2°05'50	asc. node	7273 Apr 23 14:58	22°  40'35	
evening rise	7272 Apr 29 15:01	21°  14'21			7273 Apr 29 04:12	0° 	
	7272 May 04 12:39	0° 		evening max el	7273 Apr 29 18:42	0°  37'20	18°10'22
asc. node	7272 May 06 17:54	3°  11'17		retrograde	7273 May 06 04:15	3°  11'59'29	
evening max el	7272 May 16 05:32	17°  20'26	18°06'33	evening set	7273 May 09 01:01	3°  11'16'55	
retrograde	7272 May 22 21:27	20°  14'36			7273 May 13 06:43	30° 	
evening set	7272 May 25 11:17	20°  14'12		inferior conj	7273 May 15 03:54	28°  01'16	3°09'13
inferior conj	7272 Jun 01 03:20	15°  11'27	2°32'42	minimum elong	7273 May 15 05:56	27°  55'46	3°08'51
minimum elong	7272 Jun 01 06:25	15°  10'04	2°31'53	min. Earth dist.	7273 May 17 21:16	25°  04'55	0.62979 AU
min. Earth dist.	7272 Jun 04 08:38	12°  13'48	0.60808 AU	morning rise	7273 May 21 09:22	21°  52'14	
morning rise	7272 Jun 07 23:09	9°  22'15		direct	7273 May 28 04:25	19°  51'7'24	
desc. node	7272 Jun 10 23:15	7°  11'40		desc. node	7273 May 28 20:17	19°  51'8'46	
direct	7272 Jun 14 14:05	7°  11'40		morning max el	7273 Jun 11 04:31	27°  52'00'2	27°50'00
morning max el	7272 Jun 28 21:08	15°  09'34	27°50'28		7273 Jun 13 17:03	0° 	
	7272 Jul 10 22:12	0° 			7273 Jul 04 15:00	0° 	
	7272 Jul 28 11:26	0° 		morning set	7273 Jul 15 12:30	20°  58'19'41	
morning set	7272 Jul 31 14:06	6°  17'38			7273 Jul 20 04:39	0° 	
asc. node	7272 Aug 02 17:12	10°  45'20		asc. node	7273 Jul 20 14:13	0°  45'50'52	
max. Earth dist.	7272 Aug 06 14:15	19°  08'01	1.31886 AU	max. Earth dist.	7273 Jul 20 19:08	1°  01'7'05	1.32481 AU
superior conj	7272 Aug 07 21:03	21°  05'7'24	0°50'56	superior conj	7273 Jul 23 05:17	6°  02'29'56	0°26'42
minimum elong	7272 Aug 07 19:03	21°  04'6'22	0°50'30	minimum elong	7273 Jul 23 04:03	6°  02'23'17	0°26'22
	7272 Aug 11 12:36	0° 		evening rise	7273 Jul 30 03:23	21°  03'10'01	
evening rise	7272 Aug 14 15:41	6°  47'34			7273 Aug 03 05:24	0° 	
	7272 Aug 26 16:45	0° 		evening max el	7273 Aug 22 20:00	29°  49'00	23°38'21
desc. node	7272 Sep 06 22:24	15°  51'45			7273 Aug 23 00:34	0° 	
evening max el	7272 Sep 10 08:07	19°  25'46	25°13'31	desc. node	7273 Aug 24 19:28	1°  36'24	
retrograde	7272 Sep 24 05:39	26°  27'17		retrograde	7273 Sep 05 10:34	6°  38'12	
evening set	7272 Sep 30 00:18	25°  10'56		evening set	7273 Sep 09 18:49	5°  56'50	
min. Earth dist.	7272 Oct 04 19:41	22°  30'37	0.57467 AU	min. Earth dist.	7273 Sep 16 06:03	2°  52'24	0.55819 AU
inferior conj	7272 Oct 07 18:40	20°  31'03	-5°20'54	inferior conj	7273 Sep 18 07:38	1°  43'8'17	-5°26'14
minimum elong	7272 Oct 07 22:32	20°  24'30	5°20'30	minimum elong	7273 Sep 18 04:52	1°  42'26	5°26'04
morning rise	7272 Oct 15 23:04	16°  18'31			7273 Sep 21 03:32	30° 	
direct	7272 Oct 18 10:20	16°  00'32		morning rise	7273 Sep 26 17:12	27°  58'44'07	
morning max el	7272 Oct 27 08:41	20°  15'24	19°03'21	direct	7273 Sep 29 13:23	27°  58'24'05	
asc. node	7272 Oct 29 16:36	22°  45'01			7273 Oct 07 04:15	0° 	
	7272 Nov 03 19:45	0° 		morning max el	7273 Oct 09 23:17	2°  46'14	20°11'02
morning set	7272 Nov 13 01:47	17°  05'00		asc. node	7273 Oct 16 13:38	10°  41'17'56	
	7272 Nov 19 14:46	0° 			7273 Oct 27 11:15	0° 	
superior conj	7272 Nov 21 09:10	3°  25'11	1°22'57	morning set	7273 Oct 28 07:13	1°  41'29	
minimum elong	7272 Nov 21 12:13	3°  21'39'49	1°22'42	superior conj	7273 Nov 04 22:42	17°  01'19'41	1°36'17
max. Earth dist.	7272 Nov 28 05:14	16°  08'10	1.38794 AU	minimum elong	7273 Nov 05 00:29	17°  01'28'41	1°36'14
evening rise	7272 Dec 02 00:39	22°  07'50'21		max. Earth dist.	7273 Nov 10 11:18	28°  01'09'37	1.36705 AU

	7273 Nov 11 10:38	0°♊			7274 Oct 19 02:28	0°♍	
evening rise	7273 Nov 14 07:03	5°♊16'24					
desc. node	7273 Nov 20 18:31	16°♊35'33		superior conj	7274 Oct 19 21:48	1°♍41'18	1°41'47
	7273 Nov 29 04:21	0°♋		minimum elong	7274 Oct 19 22:11	1°♍43'20	1°41'50
evening max el	7273 Dec 19 22:30	26°♋36'37	25°49'12	max. Earth dist.	7274 Oct 23 23:22	10°♍02'36	1.34878 AU
	7273 Dec 23 18:59	0°♌		evening rise	7274 Oct 28 06:28	18°♍28'34	
retrograde	7274 Jan 01 09:16	3°♌43'32			7274 Nov 03 13:36	0°♊	
evening set	7274 Jan 07 10:26	1°♌14'21		desc. node	7274 Nov 07 15:34	6°♊56'31	
	7274 Jan 08 18:38	30°♌♋			7274 Nov 23 08:44	0°♋	
min. Earth dist.	7274 Jan 11 17:44	26°♋36'05	0.67088 AU	evening max el	7274 Dec 02 11:43	10°♋18'38	26°46'03
asc. node	7274 Jan 12 12:54	25°♋35'43		retrograde	7274 Dec 15 14:10	17°♋35'52	
inferior conj	7274 Jan 13 03:35	24°♋49'13	0°12'18	evening set	7274 Dec 22 03:18	14°♋59'48	
minimum elong	7274 Jan 13 03:16	24°♋50'14	0°12'14	min. Earth dist.	7274 Dec 26 04:26	10°♋56'13	0.65956 AU
transit middle	7274 Jan 13 03:16	24°♋50'14	0°12'14	inferior conj	7274 Dec 28 01:47	8°♋43'12	-0°47'26
transit begin	7274 Jan 13 01:26	24°♋56'03		minimum elong	7274 Dec 28 03:08	8°♋39'15	0°46'47
transit end	7274 Jan 13 05:06	24°♋44'25		asc. node	7274 Dec 30 09:57	6°♋05'03	
morning rise	7274 Jan 18 20:37	18°♋58'03		morning rise	7275 Jan 03 03:54	3°♋02'57	
direct	7274 Jan 22 02:49	17°♋57'11		direct	7275 Jan 06 00:23	2°♋17'52	
morning max el	7274 Jan 28 23:14	21°♋42'58	18°58'19	morning max el	7275 Jan 12 12:28	5°♋47'29	18°17'53
	7274 Feb 04 16:53	0°♌			7275 Jan 29 06:31	0°♌	
desc. node	7274 Feb 16 17:50	18°♌06'44		morning set	7275 Jan 31 20:24	4°♌08'56	
morning set	7274 Feb 20 12:21	23°♌58'40		desc. node	7275 Feb 03 14:49	8°♌35'37	
	7274 Feb 24 09:06	0°♍					
max. Earth dist.	7274 Mar 06 23:25	16°♍33'57	1.45189 AU	superior conj	7275 Feb 16 06:24	28°♌38'47	-1°22'14
				minimum elong	7275 Feb 15 21:17	28°♌02'58	1°21'09
superior conj	7274 Mar 09 02:16	19°♍54'00	-1°55'52		7275 Feb 17 03:07	0°♍	
minimum elong	7274 Mar 08 18:14	19°♍22'19	1°55'19	max. Earth dist.	7275 Feb 17 18:37	1°♍00'46	1.45452 AU
	7274 Mar 15 11:07	0°♎		evening rise	7275 Mar 04 08:01	23°♍46'43	
evening rise	7274 Mar 24 01:16	13°♎51'44			7275 Mar 08 07:23	0°♎	
	7274 Apr 03 00:20	0°♏		greatest brilliancy	7275 Mar 15 09:17	10°♎59'48	-0.8m
asc. node	7274 Apr 10 12:02	10°♏54'41		evening max el	7275 Mar 27 16:04	27°♎40'26	19°12'14
evening max el	7274 Apr 13 07:01	14°♏06'08	18°32'36	asc. node	7275 Mar 28 09:05	28°♎22'08	
retrograde	7274 Apr 19 19:25	17°♏39'30			7275 Mar 30 08:11	0°♏	
evening set	7274 Apr 22 23:13	16°♏43'28		retrograde	7275 Apr 03 15:29	1°♏36'52	
inferior conj	7274 Apr 28 16:50	11°♏10'27	3°24'52	evening set	7275 Apr 07 02:49	0°♏26'35	
minimum elong	7274 Apr 28 17:25	11°♏08'40	3°24'46		7275 Apr 07 17:27	30°♎♎	
min. Earth dist.	7274 Apr 30 19:09	8°♏40'13	0.64883 AU	inferior conj	7275 Apr 12 14:30	24°♎37'36	3°24'20
morning rise	7274 May 04 10:52	4°♏55'15		minimum elong	7275 Apr 12 13:47	24°♎39'52	3°24'16
direct	7274 May 11 02:45	2°♏08'18		min. Earth dist.	7275 Apr 14 01:23	22°♎45'18	0.66396 AU
desc. node	7274 May 15 17:17	3°♏15'26		morning rise	7275 Apr 18 00:23	18°♎20'48	
morning max el	7274 May 24 14:26	10°♏03'52	27°14'34	direct	7275 Apr 24 07:35	15°♎34'33	
	7274 Jun 09 06:21	0°♐		desc. node	7275 May 02 14:16	19°♎09'19	
	7274 Jun 27 01:23	0°♑		morning max el	7275 May 07 00:28	23°♎08'52	26°11'33
morning set	7274 Jun 29 01:53	3°♑52'37			7275 May 13 02:02	0°♏	
max. Earth dist.	7274 Jul 03 15:27	12°♑59'24	1.33556 AU		7275 Jun 02 14:17	0°♐	
				morning set	7275 Jun 12 02:36	16°♐45'48	
superior conj	7274 Jul 07 08:45	20°♑44'23	-0°01'04	max. Earth dist.	7275 Jun 16 00:52	24°♐14'21	1.35108 AU
minimum elong	7274 Jul 07 08:49	20°♑44'43	0°01'08		7275 Jun 18 22:55	0°♑	
behind sun begin	7274 Jul 07 03:17	20°♑15'28					
behind sun end	7274 Jul 07 14:21	21°♑14'00		superior conj	7275 Jun 21 05:01	4°♑33'29	-0°31'20
asc. node	7274 Jul 07 11:15	20°♑57'34		minimum elong	7275 Jun 21 06:48	4°♑42'36	0°31'03
	7274 Jul 11 17:01	0°♒		asc. node	7275 Jun 24 08:16	11°♑01'04	
evening rise	7274 Jul 14 14:23	6°♒08'41		evening rise	7275 Jun 28 22:38	20°♑34'16	
	7274 Jul 27 09:23	0°♓			7275 Jul 03 15:14	0°♒	
evening max el	7274 Aug 04 10:21	10°♓06'56	22°00'33	evening max el	7275 Jul 17 10:54	20°♒51'35	20°34'10
desc. node	7274 Aug 11 16:30	15°♓15'34		retrograde	7275 Jul 28 15:28	26°♒22'45	
retrograde	7274 Aug 17 03:27	16°♓25'35		desc. node	7275 Jul 29 13:31	26°♒20'39	
evening set	7274 Aug 20 00:41	16°♓07'03		evening set	7275 Jul 30 16:24	26°♒12'32	
min. Earth dist.	7274 Aug 28 15:06	12°♓24'25	0.54862 AU	inferior conj	7275 Aug 08 21:46	22°♒15'33	-3°03'16
inferior conj	7274 Aug 29 04:48	12°♓05'12	-4°39'26	minimum elong	7275 Aug 08 13:36	22°♒27'18	3°00'34
minimum elong	7274 Aug 28 20:06	12°♓17'25	4°37'33	min. Earth dist.	7275 Aug 10 01:06	21°♒36'14	0.54819 AU
morning rise	7274 Sep 06 16:58	8°♓16'04		morning rise	7275 Aug 17 10:19	18°♒11'57	
direct	7274 Sep 10 01:38	7°♓51'02		direct	7275 Aug 21 10:46	17°♒37'17	
morning max el	7274 Sep 22 01:06	13°♓28'44	21°39'37	morning max el	7275 Sep 03 17:05	24°♒01'21	23°22'30
asc. node	7274 Oct 03 10:39	28°♓38'27			7275 Sep 09 03:19	0°♓	
	7274 Oct 04 05:32	0°♔		asc. node	7275 Sep 20 07:39	17°♓35'06	
morning set	7274 Oct 12 16:35	16°♔28'01			7275 Sep 26 12:59	0°♔	

morning set	7275 Sep 27 04:00	1°♄19'09		morning max el	7276 Aug 09 19:46	0°♄	
superior conj	7275 Oct 04 03:24	16°♄20'49	1°40'28		7276 Aug 15 05:56	4°♄17'43	25°06'28
minimum elong	7275 Oct 04 02:34	16°♄16'21	1°40'28	asc. node	7276 Sep 02 12:55	0°♄	
max. Earth dist.	7275 Oct 06 20:01	22°♄05'32	1.33434 AU	morning set	7276 Sep 06 04:39	6°♄58'08	
	7275 Oct 10 15:45	0°♄			7276 Sep 17 00:15	0°♄	
evening rise	7275 Oct 11 18:54	2°♄16'17		superior conj	7276 Sep 17 12:58	1°♄09'50	1°33'12
desc. node	7275 Oct 25 12:35	26°♄58'22		minimum elong	7276 Sep 17 11:15	1°♄00'24	1°33'02
	7275 Oct 27 10:34	0°♄		max. Earth dist.	7276 Sep 19 00:16	4°♄22'54	1.32424 AU
evening max el	7275 Nov 15 00:26	23°♄46'15	27°20'48	evening rise	7276 Sep 24 16:52	16°♄29'13	
	7275 Nov 23 17:28	0°♄			7276 Oct 01 14:48	0°♄	
retrograde	7275 Nov 28 12:49	1°♄05'02		desc. node	7276 Oct 11 09:38	16°♄32'06	
	7275 Dec 03 00:48	30°♄♂			7276 Oct 21 04:41	0°♄	
evening set	7275 Dec 05 11:29	28°♄28'32		evening max el	7276 Oct 27 10:34	6°♄45'13	27°27'04
min. Earth dist.	7275 Dec 09 07:09	24°♄58'46	0.64481 AU	retrograde	7276 Nov 10 04:46	14°♄00'51	
inferior conj	7275 Dec 11 16:14	22°♄26'15	-1°52'24	evening set	7276 Nov 17 07:56	11°♄32'58	
minimum elong	7275 Dec 11 19:39	22°♄17'08	1°50'55	min. Earth dist.	7276 Nov 20 23:58	8°♄32'53	0.62691 AU
asc. node	7275 Dec 17 06:59	17°♄27'57		inferior conj	7276 Nov 23 20:03	5°♄50'15	-3°00'08
morning rise	7275 Dec 18 05:15	17°♄00'00		minimum elong	7276 Nov 24 01:35	5°♄37'00	2°58'03
direct	7275 Dec 20 18:09	16°♄26'56		morning rise	7276 Nov 30 21:10	0°♄41'25	
morning max el	7275 Dec 27 05:08	19°♄50'22	17°54'26	direct	7276 Dec 03 04:56	0°♄16'41	
	7276 Jan 03 20:35	0°♄		asc. node	7276 Dec 03 04:00	0°♄16'42	
morning set	7276 Jan 13 09:40	15°♄46'02		morning max el	7276 Dec 09 22:09	3°♄43'05	17°48'37
desc. node	7276 Jan 21 11:49	29°♄14'20		morning set	7276 Dec 25 22:32	28°♄30'36	
	7276 Jan 21 22:57	0°♄			7276 Dec 26 18:46	0°♄	
superior conj	7276 Jan 26 21:20	8°♄00'04	-0°37'57	superior conj	7277 Jan 06 12:03	18°♄31'36	0°06'17
minimum elong	7276 Jan 26 16:55	7°♄42'17	0°37'14	minimum elong	7277 Jan 06 12:41	18°♄34'14	0°06'16
max. Earth dist.	7276 Jan 31 14:18	15°♄29'52	1.44974 AU	behind sun begin	7277 Jan 06 04:16	17°♄58'54	
	7276 Feb 09 21:29	0°♄		behind sun end	7277 Jan 06 21:05	19°♄09'28	
evening rise	7276 Feb 11 22:28	3°♄08'31		desc. node	7277 Jan 07 08:49	19°♄58'28	
greatest brilliancy	7276 Feb 26 17:37	25°♄27'52	-0.6m		7277 Jan 13 11:41	0°♄	
	7276 Feb 29 21:17	0°♄		max. Earth dist.	7277 Jan 13 07:13	29°♄42'02	1.43805 AU
evening max el	7276 Mar 09 20:11	11°♄16'50	20°07'27	evening rise	7277 Jan 21 10:13	12°♄31'18	
asc. node	7276 Mar 14 06:07	14°♄49'46			7277 Feb 02 00:02	0°♄	
retrograde	7276 Mar 17 13:42	15°♄46'23		evening max el	7277 Feb 20 18:44	24°♄54'17	21°15'36
evening set	7276 Mar 21 09:32	14°♄21'18			7277 Feb 28 15:58	0°♄	
inferior conj	7276 Mar 26 18:02	8°♄18'14	3°11'01	retrograde	7277 Mar 01 11:59	0°♄03'35	
minimum elong	7276 Mar 26 16:22	8°♄23'50	3°10'46	asc. node	7277 Mar 01 03:09	0°♄02'53	
min. Earth dist.	7276 Mar 27 14:28	7°♄09'03	0.67472 AU		7277 Mar 02 07:38	30°♄♂	
morning rise	7276 Mar 31 23:00	2°♄02'21		evening set	7277 Mar 05 17:29	28°♄23'28	
	7276 Apr 04 00:50	30°♄♂		inferior conj	7277 Mar 11 01:03	22°♄08'49	2°47'09
direct	7276 Apr 06 17:56	29°♄27'13		minimum elong	7277 Mar 10 22:51	22°♄16'25	2°46'40
	7276 Apr 09 15:25	0°♄		min. Earth dist.	7277 Mar 11 08:22	21°♄43'24	0.68106 AU
desc. node	7276 Apr 18 11:16	6°♄29'54		morning rise	7277 Mar 16 04:03	15°♄55'28	
morning max el	7276 Apr 18 09:38	6°♄25'45	24°50'19	direct	7277 Mar 21 09:06	13°♄38'27	
	7276 May 06 16:20	0°♄		morning max el	7277 Mar 31 18:58	19°♄49'59	23°21'04
morning set	7276 May 24 09:56	28°♄46'33		desc. node	7277 Apr 05 08:16	24°♄53'11	
	7276 May 25 02:28	0°♄			7277 Apr 09 10:09	0°♄	
max. Earth dist.	7276 May 28 00:48	5°♄18'28	1.37068 AU		7277 Apr 29 20:49	0°♄	
superior conj	7276 Jun 03 15:00	17°♄48'59	-1°02'33	morning set	7277 May 05 18:19	9°♄40'39	
minimum elong	7276 Jun 03 18:44	18°♄07'12	1°02'00	max. Earth dist.	7277 May 09 20:38	16°♄41'20	1.39267 AU
	7276 Jun 09 17:53	0°♄		superior conj	7277 May 17 10:54	0°♄21'48	-1°32'12
asc. node	7276 Jun 10 05:17	0°♄57'20		minimum elong	7277 May 17 16:11	0°♄46'21	1°31'36
evening rise	7276 Jun 12 01:47	4°♄40'54			7277 May 17 06:12	0°♄	
	7276 Jun 26 21:29	0°♄		evening rise	7277 May 26 20:59	18°♄21'00	
evening max el	7276 Jun 29 00:24	2°♄18'41	19°26'33	asc. node	7277 May 28 02:18	20°♄42'14	
retrograde	7276 Jul 08 11:56	6°♄58'51			7277 Jun 02 01:31	0°♄	
evening set	7276 Jul 10 09:05	6°♄48'36		evening max el	7277 Jun 12 01:13	14°♄28'21	18°39'41
desc. node	7276 Jul 15 10:33	4°♄53'35		retrograde	7277 Jun 20 01:44	18°♄26'43	
inferior conj	7276 Jul 19 01:10	2°♄41'59	-1°05'50	evening set	7277 Jun 22 03:54	18°♄11'27	
minimum elong	7276 Jul 18 22:12	2°♄46'45	1°04'47	inferior conj	7277 Jun 30 00:27	13°♄47'03	0°40'37
min. Earth dist.	7276 Jul 21 13:53	1°♄04'17	0.55720 AU	minimum elong	7277 Jun 30 01:57	13°♄44'13	0°40'00
	7276 Jul 23 08:30	30°♄♂		desc. node	7277 Jul 02 07:35	12°♄02'53	
morning rise	7276 Jul 27 08:44	28°♄06'08		min. Earth dist.	7277 Jul 03 07:13	11°♄19'38	0.57389 AU
direct	7276 Aug 01 04:37	27°♄13'34					

morning rise	7277 Jul 07 20:31	8°☿34'07		morning rise	7278 Jun 19 02:03	19°♄51'24	
direct	7277 Jul 13 13:05	7°☿13'35		desc. node	7278 Jun 19 04:38	19°♄47'40	
morning max el	7277 Jul 27 21:57	14°☿47'18	26°34'45	direct	7278 Jun 25 11:11	17°♄58'03	
	7277 Aug 09 03:04	0°♄		morning max el	7278 Jul 09 20:02	25°♄49'54	27°33'21
asc. node	7277 Aug 24 01:39	26°♄40'27			7278 Jul 13 17:13	0°☿	
	7277 Aug 25 15:58	0°♄			7278 Aug 02 13:37	0°♄	
morning set	7277 Aug 26 01:59	0°♄52'57		morning set	7278 Aug 10 09:15	15°♄24'50	
				asc. node	7278 Aug 10 22:41	16°♄35'18	
superior conj	7277 Sep 02 00:32	16°♄02'16	1°20'33	max. Earth dist.	7278 Aug 16 19:50	29°♄20'37	1.31747 AU
minimum elong	7277 Sep 01 22:20	15°♄50'06	1°20'14		7278 Aug 17 02:58	0°♄	
max. Earth dist.	7277 Sep 02 09:24	16°♄51'19	1.31864 AU				
	7277 Sep 08 10:14	0°♄		superior conj	7278 Aug 17 12:13	0°♄51'11	1°03'03
evening rise	7277 Sep 08 21:34	0°♄59'50		minimum elong	7278 Aug 17 10:00	0°♄38'56	1°02'38
	7277 Sep 24 15:16	0°♄		evening rise	7278 Aug 24 06:33	15°♄40'12	
desc. node	7277 Sep 28 06:41	5°♄26'30			7278 Aug 31 08:49	0°♄	
evening max el	7277 Oct 09 15:42	19°♄03'28	27°00'24	desc. node	7278 Sep 15 03:45	23°♄25'28	
retrograde	7277 Oct 23 13:09	26°♄14'07			7278 Sep 21 00:02	0°♄	
evening set	7277 Oct 30 12:46	24°♄06'14		evening max el	7278 Sep 21 13:38	0°♄32'46	26°00'42
min. Earth dist.	7277 Nov 03 06:11	21°♄26'15	0.60676 AU	retrograde	7278 Oct 05 12:19	7°♄37'46	
inferior conj	7277 Nov 06 09:57	18°♄46'57	-4°05'43	evening set	7278 Oct 11 21:08	6°♄01'00	
minimum elong	7277 Nov 06 16:52	18°♄32'22	4°03'42	min. Earth dist.	7278 Oct 16 02:31	3°♄25'54	0.58593 AU
morning rise	7277 Nov 13 23:14	13°♄58'33		inferior conj	7278 Oct 19 06:28	1°♄06'59	-5°00'10
direct	7277 Nov 16 04:57	13°♄38'50		minimum elong	7278 Oct 19 12:31	0°♄55'51	4°59'05
asc. node	7277 Nov 20 01:02	14°♄39'29			7278 Oct 20 19:32	30°♄	
morning max el	7277 Nov 23 12:12	17°♄16'58	18°01'26	morning rise	7278 Oct 27 06:13	26°♄41'03	
	7277 Dec 02 12:43	0°♄		direct	7278 Oct 29 14:04	26°♄23'14	
morning set	7277 Dec 09 04:32	12°♄03'11			7278 Nov 06 10:17	0°♄	
				asc. node	7278 Nov 06 22:05	0°♄27'55	
superior conj	7277 Dec 19 04:22	0°♄16'35	0°43'30	morning max el	7278 Nov 06 19:45	0°♄22'16	18°34'29
minimum elong	7277 Dec 19 07:33	0°♄30'41	0°43'07	morning set	7278 Nov 22 22:34	26°♄09'10	
	7277 Dec 19 00:37	0°♄			7278 Nov 24 22:13	0°♄	
desc. node	7277 Dec 25 05:51	10°♄44'33		superior conj	7278 Dec 01 18:16	13°♄03'17	1°11'16
max. Earth dist.	7277 Dec 26 19:11	13°♄20'53	1.42089 AU	minimum elong	7278 Dec 01 21:45	13°♄19'36	1°10'55
evening rise	7278 Jan 01 10:10	22°♄30'50		max. Earth dist.	7278 Dec 09 02:35	26°♄18'54	1.40035 AU
	7278 Jan 06 04:35	0°♄			7278 Dec 11 05:53	0°♄	
	7278 Jan 27 03:34	0°♄		desc. node	7278 Dec 12 02:52	1°♄29'08	
evening max el	7278 Feb 03 12:23	8°♄33'47	22°32'31	evening rise	7278 Dec 13 07:00	3°♄27'26	
retrograde	7278 Feb 13 08:29	14°♄24'12			7278 Dec 30 10:22	0°♄	
asc. node	7278 Feb 16 00:13	13°♄48'09		evening max el	7279 Jan 17 02:55	22°♄17'20	23°52'38
evening set	7278 Feb 18 01:01	12°♄29'01		retrograde	7279 Jan 28 01:49	28°♄44'15	
inferior conj	7278 Feb 23 09:30	6°♄06'06	2°14'07	evening set	7279 Feb 02 06:38	26°♄34'29	
minimum elong	7278 Feb 23 07:13	6°♄14'02	2°13'27	asc. node	7279 Feb 02 21:17	26°♄01'38	
min. Earth dist.	7278 Feb 23 04:49	6°♄22'22	0.68324 AU	min. Earth dist.	7279 Feb 07 01:28	21°♄01'51	0.68144 AU
	7278 Feb 28 11:43	30°♄		inferior conj	7279 Feb 07 17:32	20°♄07'11	1°32'48
morning rise	7278 Feb 28 13:16	29°♄56'43		minimum elong	7279 Feb 07 15:37	20°♄13'43	1°32'10
direct	7278 Mar 05 04:07	28°♄01'23		morning rise	7279 Feb 13 00:36	14°♄03'26	
	7278 Mar 10 09:38	0°♄		direct	7279 Feb 17 01:51	12°♄30'34	
morning max el	7278 Mar 14 07:21	3°♄21'47	21°53'16	morning max el	7279 Feb 25 02:14	17°♄05'01	20°34'26
desc. node	7278 Mar 23 05:17	14°♄01'29			7279 Mar 07 11:28	0°♄	
	7278 Apr 03 11:28	0°♄		desc. node	7279 Mar 10 02:16	3°♄42'33	
morning set	7278 Apr 15 23:01	19°♄16'28		morning set	7279 Mar 26 03:12	27°♄47'16	
max. Earth dist.	7278 Apr 21 19:12	28°♄49'12	1.41460 AU		7279 Mar 27 13:18	0°♄	
	7278 Apr 22 12:09	0°♄		max. Earth dist.	7279 Apr 04 01:18	11°♄53'57	1.43358 AU
superior conj	7278 Apr 29 12:04	12°♄00'42	-1°56'29	superior conj	7279 Apr 10 14:04	22°♄37'00	-2°10'02
minimum elong	7278 Apr 29 17:20	12°♄23'50	1°56'08	minimum elong	7279 Apr 10 16:04	22°♄45'21	2°10'01
	7278 May 09 10:16	0°♄			7279 Apr 14 22:58	0°♄	
evening rise	7278 May 10 04:34	1°♄24'37		evening rise	7279 Apr 22 20:14	13°♄42'46	
asc. node	7278 May 14 23:21	10°♄10'11		asc. node	7279 May 01 20:25	29°♄15'43	
evening max el	7278 May 26 09:41	27°♄11'13	18°13'03		7279 May 02 07:19	0°♄	
	7278 May 30 06:40	0°☿		evening max el	7279 May 09 22:08	10°♄18'28	18°05'52
retrograde	7278 Jun 02 10:03	0°☿42'59		retrograde	7279 May 16 09:55	13°♄39'37	
evening set	7278 Jun 04 19:42	0°☿18'53		evening set	7279 May 19 02:51	13°♄04'05	
	7278 Jun 05 15:33	30°♄		inferior conj	7279 May 25 12:48	7°♄59'13	2°51'04
inferior conj	7278 Jun 11 21:13	25°♄34'06	2°00'07	minimum elong	7279 May 25 15:31	7°♄52'18	2°50'26
minimum elong	7278 Jun 12 00:22	25°♄27'09	1°59'06	min. Earth dist.	7279 May 28 13:42	4°♄56'02	0.61763 AU
min. Earth dist.	7278 Jun 15 06:32	22°♄36'29	0.59518 AU				



morning rise	7279 Jun 01 02:15	1° $\Pi$ 57'19		minimum elong	7280 May 07 20:31	20° $\mathcal{B}$ 50'22	3°17'51
	7279 Jun 04 23:47	30° $\mathcal{R}$		min. Earth dist.	7280 May 10 06:06	18° $\mathcal{B}$ 07'39	0.63836 AU
desc. node	7279 Jun 06 01:40	29° $\mathcal{B}$ 44'34		morning rise	7280 May 13 19:19	14° $\mathcal{B}$ 42'09	
direct	7279 Jun 07 20:08	29° $\mathcal{B}$ 35'01		direct	7280 May 20 13:46	12° $\mathcal{B}$ 00'56	
	7279 Jun 10 18:55	0° $\Pi$		desc. node	7280 May 22 22:40	12° $\mathcal{B}$ 18'39	
morning max el	7279 Jun 22 00:24	7° $\Pi$ 35'28	27°54'47	morning max el	7280 Jun 03 09:12	20° $\mathcal{B}$ 01'16	27°38'53
	7279 Jul 09 02:36	0° $\mathcal{E}$			7280 Jun 11 22:00	0° $\Pi$	
morning set	7279 Jul 25 11:32	29° $\mathcal{E}$ 39'13			7280 Jul 01 03:20	0° $\mathcal{E}$	
	7279 Jul 25 15:35	0° $\mathcal{O}$		morning set	7280 Jul 08 06:28	13° $\mathcal{E}$ 29'42	
asc. node	7279 Jul 28 19:42	6° $\mathcal{O}$ 37'56		max. Earth dist.	7280 Jul 13 05:48	23° $\mathcal{E}$ 39'44	1.32882 AU
max. Earth dist.	7279 Jul 31 03:56	11° $\mathcal{O}$ 40'19	1.32083 AU	asc. node	7280 Jul 14 16:43	26° $\mathcal{E}$ 44'17	
superior conj	7279 Aug 01 22:13	15° $\mathcal{O}$ 31'04	0°41'07	superior conj	7280 Jul 16 04:41	29° $\mathcal{E}$ 56'31	0°15'18
minimum elong	7279 Aug 01 20:29	15° $\mathcal{O}$ 21'33	0°40'43	minimum elong	7280 Jul 16 03:57	29° $\mathcal{E}$ 52'32	0°15'05
evening rise	7279 Aug 08 17:49	0° $\mathcal{N}$ 24'10		behind sun begin	7280 Jul 16 02:09	29° $\mathcal{E}$ 42'54	
	7279 Aug 08 13:19	0° $\mathcal{N}$		behind sun end	7280 Jul 16 05:44	0° $\mathcal{O}$ 02'09	
	7279 Aug 24 21:54	0° $\mathcal{A}$			7280 Jul 16 05:20	0° $\mathcal{O}$	
desc. node	7279 Sep 02 00:48	10° $\mathcal{A}$ 07'02		evening rise	7280 Jul 23 05:29	15° $\mathcal{O}$ 06'02	
evening max el	7279 Sep 03 04:10	11° $\mathcal{A}$ 14'59	24°34'30		7280 Jul 30 15:34	0° $\mathcal{N}$	
retrograde	7279 Sep 16 23:52	18° $\mathcal{A}$ 11'57		evening max el	7280 Aug 14 15:56	21° $\mathcal{N}$ 31'08	22°56'04
evening set	7279 Sep 22 04:57	17° $\mathcal{A}$ 11'28		desc. node	7280 Aug 18 21:50	25° $\mathcal{N}$ 02'34	
min. Earth dist.	7279 Sep 27 15:14	14° $\mathcal{A}$ 22'57	0.56700 AU	retrograde	7280 Aug 27 23:00	28° $\mathcal{N}$ 09'49	
inferior conj	7279 Sep 30 06:56	12° $\mathcal{A}$ 41'30	-5°28'47	evening set	7280 Aug 31 15:46	27° $\mathcal{N}$ 39'51	
minimum elong	7279 Sep 30 08:19	12° $\mathcal{A}$ 39'17	5°28'43	min. Earth dist.	7280 Sep 08 00:17	24° $\mathcal{N}$ 21'04	0.55309 AU
morning rise	7279 Oct 08 13:53	8° $\mathcal{A}$ 37'28		inferior conj	7280 Sep 09 12:11	23° $\mathcal{N}$ 29'27	-5°13'14
direct	7279 Oct 11 04:37	8° $\mathcal{A}$ 18'46		minimum elong	7280 Sep 09 06:23	23° $\mathcal{N}$ 37'49	5°12'29
morning max el	7279 Oct 20 17:12	12° $\mathcal{A}$ 48'25	19°29'25	morning rise	7280 Sep 17 23:06	19° $\mathcal{N}$ 39'56	
asc. node	7279 Oct 24 19:07	17° $\mathcal{A}$ 26'57		direct	7280 Sep 21 00:25	19° $\mathcal{N}$ 18'08	
	7279 Nov 01 13:42	0° $\mathcal{M}$		morning max el	7280 Oct 02 02:13	24° $\mathcal{N}$ 28'20	20°46'31
morning set	7279 Nov 07 00:42	10° $\mathcal{M}$ 37'05			7280 Oct 06 23:44	0° $\mathcal{A}$	
superior conj	7279 Nov 15 00:30	26° $\mathcal{M}$ 36'49	1°29'37	asc. node	7280 Oct 10 16:08	5° $\mathcal{A}$ 21'34	
minimum elong	7279 Nov 15 03:04	26° $\mathcal{M}$ 49'23	1°29'29	morning set	7280 Oct 21 08:06	25° $\mathcal{A}$ 18'59	
	7279 Nov 16 18:15	0° $\mathcal{X}$			7280 Oct 23 14:16	0° $\mathcal{M}$	
max. Earth dist.	7279 Nov 21 08:16	8° $\mathcal{X}$ 38'51	1.37888 AU	superior conj	7280 Oct 28 18:34	10° $\mathcal{M}$ 44'23	1°39'30
evening rise	7279 Nov 25 01:52	15° $\mathcal{X}$ 22'33		minimum elong	7280 Oct 28 19:45	10° $\mathcal{M}$ 50'28	1°39'31
desc. node	7279 Nov 28 23:53	22° $\mathcal{X}$ 08'04		max. Earth dist.	7280 Nov 02 16:38	20° $\mathcal{M}$ 35'20	1.35884 AU
	7279 Dec 03 18:49	0° $\mathcal{Z}$		evening rise	7280 Nov 06 15:59	28° $\mathcal{M}$ 09'23	
	7279 Dec 25 02:32	0° $\approx$			7280 Nov 07 15:57	0° $\mathcal{X}$	
evening max el	7279 Dec 30 16:03	6° $\approx$ 03'32	25°09'22	desc. node	7280 Nov 14 20:55	12° $\mathcal{X}$ 37'11	
retrograde	7280 Jan 11 14:49	12° $\approx$ 58'18			7280 Nov 26 02:03	0° $\mathcal{Z}$	
evening set	7280 Jan 17 08:41	10° $\approx$ 35'20		evening max el	7280 Dec 12 05:00	19° $\mathcal{Z}$ 48'37	26°15'30
asc. node	7280 Jan 20 18:21	6° $\approx$ 58'26		retrograde	7280 Dec 24 22:52	27° $\mathcal{Z}$ 00'55	
min. Earth dist.	7280 Jan 21 19:57	5° $\approx$ 37'16	0.67587 AU	evening set	7280 Dec 31 05:30	24° $\mathcal{Z}$ 27'53	
inferior conj	7280 Jan 22 23:17	4° $\approx$ 08'11	0°43'47	min. Earth dist.	7281 Jan 04 10:02	20° $\mathcal{Z}$ 04'41	0.66659 AU
minimum elong	7280 Jan 22 22:14	4° $\approx$ 11'36	0°43'26	inferior conj	7281 Jan 06 00:50	18° $\mathcal{Z}$ 05'49	-0°12'16
	7280 Jan 26 09:45	30° $\mathcal{R}$		minimum elong	7281 Jan 06 01:09	18° $\mathcal{Z}$ 04'49	0°12'03
morning rise	7280 Jan 28 12:02	28° $\mathcal{Z}$ 11'54		transit middle	7281 Jan 06 01:09	18° $\mathcal{Z}$ 04'49	0°12'03
direct	7280 Feb 01 00:49	27° $\mathcal{Z}$ 00'06		transit begin	7281 Jan 05 23:15	18° $\mathcal{Z}$ 10'40	
	7280 Feb 07 03:46	0° $\approx$		transit end	7281 Jan 06 03:03	17° $\mathcal{Z}$ 58'59	
morning max el	7280 Feb 08 05:08	0° $\approx$ 59'44	19°28'57	asc. node	7281 Jan 06 15:24	17° $\mathcal{Z}$ 21'21	
greatest brilliancy	7280 Feb 21 03:00	18° $\approx$ 00'35	-0.7m	morning rise	7281 Jan 11 21:30	12° $\mathcal{Z}$ 19'14	
desc. node	7280 Feb 24 23:14	23° $\approx$ 46'51		direct	7281 Jan 14 23:23	11° $\mathcal{Z}$ 25'33	
	7280 Feb 29 01:10	0° $\mathcal{H}$		morning max el	7281 Jan 21 15:16	15° $\mathcal{Z}$ 02'46	18°39'04
morning set	7280 Mar 04 00:55	6° $\mathcal{H}$ 08'00			7281 Feb 01 19:05	0° $\approx$	
max. Earth dist.	7280 Mar 16 14:42	25° $\mathcal{H}$ 44'53	1.44719 AU	desc. node	7281 Feb 10 20:13	14° $\approx$ 08'11	
	7280 Mar 19 06:59	0° $\mathcal{Y}$		morning set	7281 Feb 11 16:25	15° $\approx$ 27'43	
superior conj	7280 Mar 20 15:04	2° $\mathcal{Y}$ 08'06	-2°06'51		7281 Feb 20 22:27	0° $\mathcal{H}$	
minimum elong	7280 Mar 20 10:30	1° $\mathcal{Y}$ 49'50	2°06'41	superior conj	7281 Feb 27 22:01	10° $\mathcal{H}$ 56'08	-1°43'34
evening rise	7280 Apr 03 15:21	25° $\mathcal{Y}$ 05'56		minimum elong	7281 Feb 27 12:36	10° $\mathcal{H}$ 19'12	1°42'42
	7280 Apr 06 13:35	0° $\mathcal{B}$		max. Earth dist.	7281 Feb 27 08:32	10° $\mathcal{H}$ 03'18	1.45398 AU
asc. node	7280 Apr 17 17:27	17° $\mathcal{B}$ 51'00			7281 Mar 12 00:04	0° $\mathcal{Y}$	
evening max el	7280 Apr 22 11:15	23° $\mathcal{B}$ 41'03	18°17'35	evening rise	7281 Mar 15 11:06	5° $\mathcal{Y}$ 31'03	
retrograde	7280 Apr 28 20:48	27° $\mathcal{B}$ 06'16		greatest brilliancy	7281 Mar 23 10:06	18° $\mathcal{Y}$ 13'45	-0.9m
evening set	7280 May 01 20:37	26° $\mathcal{B}$ 17'54			7281 Mar 31 03:31	0° $\mathcal{B}$	
inferior conj	7280 May 07 19:05	20° $\mathcal{B}$ 54'25	3°18'05	asc. node	7281 Apr 04 14:30	5° $\mathcal{B}$ 46'22	

evening max el	7281 Apr 05 22:19	7° $\text{♄}$ 12'00	18°47'22	max. Earth dist.	7282 Feb 10 03:57	24° $\text{♄}$ 31'54	1.45334 AU
retrograde	7281 Apr 12 14:34	10° $\text{♄}$ 54'09			7282 Feb 13 15:48	0° $\text{♄}$	
evening set	7281 Apr 15 21:26	9° $\text{♄}$ 52'08		evening rise	7282 Feb 23 09:38	15° $\text{♄}$ 08'22	
inferior conj	7281 Apr 21 12:07	4° $\text{♄}$ 11'50	3°26'22		7282 Mar 05 01:08	0° $\text{♄}$	
minimum elong	7281 Apr 21 12:08	4° $\text{♄}$ 11'47	3°26'19	greatest brilliancy	7282 Mar 08 09:32	5° $\text{♄}$ 03'49	-0.7m
min. Earth dist.	7281 Apr 23 07:44	1° $\text{♄}$ 56'49	0.65576 AU	evening max el	7282 Mar 20 05:23	20° $\text{♄}$ 47'28	19°33'56
	7281 Apr 24 23:53	30° $\text{♄}$		asc. node	7282 Mar 22 11:32	22° $\text{♄}$ 50'17	
morning rise	7281 Apr 27 02:16	27° $\text{♄}$ 55'18		retrograde	7282 Mar 27 11:54	24° $\text{♄}$ 57'19	
direct	7281 May 03 14:49	25° $\text{♄}$ 07'25		evening set	7282 Mar 31 02:37	23° $\text{♄}$ 40'59	
desc. node	7281 May 09 19:40	27° $\text{♄}$ 08'47		inferior conj	7282 Apr 05 12:38	17° $\text{♄}$ 45'46	3°20'05
	7281 May 13 16:29	0° $\text{♄}$		minimum elong	7282 Apr 05 11:29	17° $\text{♄}$ 49'34	3°19'58
morning max el	7281 May 16 19:37	2° $\text{♄}$ 56'05	26°50'38	min. Earth dist.	7282 Apr 06 17:17	16° $\text{♄}$ 11'12	0.66905 AU
	7281 Jun 06 04:51	0° $\text{♄}$		morning rise	7282 Apr 10 20:02	11° $\text{♄}$ 28'49	
morning set	7281 Jun 21 14:55	26° $\text{♄}$ 46'54		direct	7282 Apr 16 22:17	8° $\text{♄}$ 46'02	
	7281 Jun 23 06:59	0° $\text{♄}$		desc. node	7282 Apr 26 16:40	13° $\text{♄}$ 43'02	
max. Earth dist.	7281 Jun 25 21:50	5° $\text{♄}$ 10'31	1.34159 AU	morning max el	7282 Apr 29 05:26	16° $\text{♄}$ 07'45	25°38'33
					7282 May 10 16:33	0° $\text{♄}$	
superior conj	7281 Jun 30 05:22	14° $\text{♄}$ 00'29	-0°13'41		7282 May 30 02:30	0° $\text{♄}$	
minimum elong	7281 Jun 30 06:07	14° $\text{♄}$ 04'23	0°13'37	morning set	7282 Jun 04 08:55	9° $\text{♄}$ 19'55	
behind sun begin	7281 Jun 30 03:04	13° $\text{♄}$ 48'27		max. Earth dist.	7282 Jun 08 02:35	16° $\text{♄}$ 16'59	1.35896 AU
behind sun end	7281 Jun 30 09:11	14° $\text{♄}$ 20'19					
asc. node	7281 Jul 01 13:42	16° $\text{♄}$ 49'41		superior conj	7282 Jun 13 21:41	27° $\text{♄}$ 36'22	-0°44'35
evening rise	7281 Jul 07 15:33	29° $\text{♄}$ 39'03		minimum elong	7282 Jun 14 00:17	27° $\text{♄}$ 49'27	0°44'11
	7281 Jul 07 19:34	0° $\text{♄}$			7282 Jun 15 02:12	0° $\text{♄}$	
	7281 Jul 25 13:36	0° $\text{♄}$		asc. node	7282 Jun 18 10:43	6° $\text{♄}$ 50'33	
evening max el	7281 Jul 27 09:41	1° $\text{♄}$ 56'07	21°21'46	evening rise	7282 Jun 21 21:57	13° $\text{♄}$ 57'16	
desc. node	7281 Aug 05 18:53	7° $\text{♄}$ 38'34			7282 Jun 30 06:25	0° $\text{♄}$	
retrograde	7281 Aug 08 12:56	7° $\text{♄}$ 56'52		evening max el	7282 Jul 09 15:48	12° $\text{♄}$ 58'19	20°02'56
evening set	7281 Aug 10 23:06	7° $\text{♄}$ 43'19		retrograde	7282 Jul 20 02:59	18° $\text{♄}$ 07'11	
inferior conj	7281 Aug 20 05:44	3° $\text{♄}$ 44'56	-4°03'26	evening set	7282 Jul 22 00:26	17° $\text{♄}$ 57'49	
minimum elong	7281 Aug 19 20:23	3° $\text{♄}$ 58'04	4°00'54	desc. node	7282 Jul 23 15:54	17° $\text{♄}$ 35'20	
min. Earth dist.	7281 Aug 20 09:28	3° $\text{♄}$ 39'42	0.54718 AU	inferior conj	7282 Jul 31 01:34	13° $\text{♄}$ 58'33	-2°13'56
	7281 Aug 28 07:01	30° $\text{♄}$		minimum elong	7282 Jul 30 19:23	14° $\text{♄}$ 07'49	2°11'43
morning rise	7281 Aug 28 18:30	29° $\text{♄}$ 52'17		min. Earth dist.	7282 Aug 01 20:51	12° $\text{♄}$ 53'42	0.55093 AU
direct	7281 Sep 01 09:07	29° $\text{♄}$ 24'10		morning rise	7282 Aug 08 12:44	9° $\text{♄}$ 42'18	
	7281 Sep 05 08:25	0° $\text{♄}$		direct	7282 Aug 12 21:03	9° $\text{♄}$ 01'06	
morning max el	7281 Sep 13 23:23	5° $\text{♄}$ 22'01	22°22'24	morning max el	7282 Aug 26 13:12	15° $\text{♄}$ 44'13	24°07'30
asc. node	7281 Sep 27 13:07	23° $\text{♄}$ 58'07			7282 Sep 06 21:38	0° $\text{♄}$	
	7281 Sep 30 18:51	0° $\text{♄}$		asc. node	7282 Sep 14 10:08	13° $\text{♄}$ 06'28	
morning set	7281 Oct 05 18:32	10° $\text{♄}$ 07'33		morning set	7282 Sep 20 06:12	24° $\text{♄}$ 57'56	
					7282 Sep 22 14:27	0° $\text{♄}$	
superior conj	7281 Oct 12 20:46	25° $\text{♄}$ 14'20	1°42'01				
minimum elong	7281 Oct 12 20:36	25° $\text{♄}$ 13'28	1°42'03	superior conj	7282 Sep 27 04:19	9° $\text{♄}$ 58'16	1°38'05
	7281 Oct 15 03:08	0° $\text{♄}$		minimum elong	7282 Sep 27 03:03	9° $\text{♄}$ 51'27	1°38'01
max. Earth dist.	7281 Oct 16 07:57	2° $\text{♄}$ 29'07	1.34205 AU	max. Earth dist.	7282 Sep 29 07:47	14° $\text{♄}$ 36'13	1.32948 AU
evening rise	7281 Oct 20 21:21	11° $\text{♄}$ 37'09		evening rise	7282 Oct 04 14:14	25° $\text{♄}$ 36'13	
	7281 Oct 31 00:50	0° $\text{♄}$			7282 Oct 06 19:14	0° $\text{♄}$	
desc. node	7281 Nov 01 17:58	2° $\text{♄}$ 50'26		desc. node	7282 Oct 19 15:00	22° $\text{♄}$ 40'51	
	7281 Nov 21 10:08	0° $\text{♄}$			7282 Oct 24 11:20	0° $\text{♄}$	
evening max el	7281 Nov 24 17:54	3° $\text{♄}$ 24'42	27°03'52	evening max el	7282 Nov 07 05:47	16° $\text{♄}$ 41'07	27°27'22
retrograde	7281 Dec 08 01:21	10° $\text{♄}$ 44'18		retrograde	7282 Nov 20 21:29	23° $\text{♄}$ 59'35	
evening set	7281 Dec 14 19:00	8° $\text{♄}$ 06'46		evening set	7282 Nov 27 22:36	21° $\text{♄}$ 25'37	
min. Earth dist.	7281 Dec 18 17:32	4° $\text{♄}$ 18'02	0.65367 AU	min. Earth dist.	7282 Dec 01 16:23	18° $\text{♄}$ 09'00	0.63744 AU
inferior conj	7281 Dec 20 20:01	1° $\text{♄}$ 55'23	-1°14'28	inferior conj	7282 Dec 04 06:18	15° $\text{♄}$ 30'46	-2°21'04
minimum elong	7281 Dec 20 22:12	1° $\text{♄}$ 49'13	1°13'28	minimum elong	7282 Dec 04 10:38	15° $\text{♄}$ 19'40	2°19'17
	7281 Dec 22 13:53	30° $\text{♄}$		morning rise	7282 Dec 11 00:21	10° $\text{♄}$ 11'25	
asc. node	7281 Dec 24 12:25	28° $\text{♄}$ 07'09		asc. node	7282 Dec 11 09:28	10° $\text{♄}$ 03'09	
morning rise	7281 Dec 27 02:36	26° $\text{♄}$ 20'58		direct	7282 Dec 13 10:37	9° $\text{♄}$ 42'26	
direct	7281 Dec 29 19:29	25° $\text{♄}$ 41'37		morning max el	7282 Dec 19 23:32	13° $\text{♄}$ 06'29	17°49'46
morning max el	7282 Jan 05 06:22	29° $\text{♄}$ 07'36	18°05'49		7282 Dec 31 15:34	0° $\text{♄}$	
	7282 Jan 06 02:35	0° $\text{♄}$		morning set	7283 Jan 05 13:25	8° $\text{♄}$ 24'07	
morning set	7282 Jan 23 13:17	26° $\text{♄}$ 16'10		desc. node	7283 Jan 15 14:14	25° $\text{♄}$ 22'43	
	7282 Jan 25 20:00	0° $\text{♄}$					
desc. node	7282 Jan 28 17:14	4° $\text{♄}$ 41'40		superior conj	7283 Jan 18 04:45	29° $\text{♄}$ 39'41	-0°18'39
				minimum elong	7283 Jan 18 02:41	29° $\text{♄}$ 31'16	0°18'17
superior conj	7282 Feb 07 04:35	19° $\text{♄}$ 51'01	-1°04'05		7283 Jan 18 09:44	0° $\text{♄}$	
minimum elong	7282 Feb 06 21:04	19° $\text{♄}$ 21'17	1°03'04	max. Earth dist.	7283 Jan 23 22:20	8° $\text{♄}$ 54'02	1.44549 AU

evening rise	7283 Feb 02 20:57	24° $\approx$ 25'28		max. Earth dist.	7284 Jan 06 13:41	22° $\approx$ 55'05	1.43133 AU
	7283 Feb 06 12:32	0° $\mathbb{H}$			7284 Jan 10 23:19	0° $\approx$	
	7283 Feb 27 10:14	0° $\mathbb{Y}$		evening rise	7284 Jan 13 12:28	4° $\approx$ 00'52	
evening max el	7283 Mar 03 07:13	4° $\mathbb{Y}$ 24'39	20°35'08		7284 Jan 30 22:18	0° $\mathbb{H}$	
asc. node	7283 Mar 09 08:35	8° $\mathbb{Y}$ 48'10		evening max el	7284 Feb 14 03:43	18° $\mathbb{H}$ 03'28	21°47'32
retrograde	7283 Mar 11 10:19	9° $\mathbb{Y}$ 10'26		retrograde	7284 Feb 23 07:56	23° $\mathbb{H}$ 29'45	
evening set	7283 Mar 15 10:04	7° $\mathbb{Y}$ 39'10		asc. node	7284 Feb 24 05:39	23° $\mathbb{H}$ 25'30	
inferior conj	7283 Mar 20 17:56	1° $\mathbb{Y}$ 31'04	3°02'05	evening set	7284 Feb 27 18:03	21° $\mathbb{H}$ 43'09	
minimum elong	7283 Mar 20 16:00	1° $\mathbb{Y}$ 37'42	3°01'44	inferior conj	7284 Mar 04 01:49	15° $\mathbb{H}$ 24'47	2°34'13
min. Earth dist.	7283 Mar 21 08:44	0° $\mathbb{Y}$ 40'19	0.67798 AU	minimum elong	7284 Mar 03 23:32	15° $\mathbb{H}$ 32'44	2°33'37
	7283 Mar 21 20:35	30° $\mathbb{R}$ $\mathbb{H}$		min. Earth dist.	7284 Mar 04 03:56	15° $\mathbb{H}$ 17'26	0.68257 AU
morning rise	7283 Mar 25 21:43	25° $\mathbb{H}$ 16'03		morning rise	7284 Mar 09 04:51	9° $\mathbb{H}$ 13'09	
direct	7283 Mar 31 11:00	22° $\mathbb{H}$ 47'39		direct	7284 Mar 14 03:56	7° $\mathbb{H}$ 05'01	
morning max el	7283 Apr 11 14:12	29° $\mathbb{H}$ 27'12	24°12'38	morning max el	7284 Mar 24 00:19	12° $\mathbb{H}$ 53'56	22°43'02
	7283 Apr 12 03:00	0° $\mathbb{Y}$		desc. node	7284 Mar 30 10:42	20° $\mathbb{H}$ 16'46	
desc. node	7283 Apr 13 13:41	1° $\mathbb{Y}$ 32'38			7284 Apr 06 17:02	0° $\mathbb{Y}$	
	7283 May 04 12:15	0° $\mathbb{B}$			7284 Apr 26 09:52	0° $\mathbb{B}$	
morning set	7283 May 17 07:11	20° $\mathbb{B}$ 53'52		morning set	7284 Apr 27 04:07	1° $\mathbb{B}$ 14'55	
max. Earth dist.	7283 May 20 23:26	27° $\mathbb{B}$ 23'00	1.37992 AU	max. Earth dist.	7284 May 01 20:06	9° $\mathbb{B}$ 04'15	1.40230 AU
	7283 May 22 10:11	0° $\mathbb{I}$					
superior conj	7283 May 28 02:12	10° $\mathbb{I}$ 34'59	-1°15'31	superior conj	7284 May 09 14:47	22° $\mathbb{B}$ 46'26	-1°43'27
minimum elong	7283 May 28 06:41	10° $\mathbb{I}$ 56'27	1°14'54	minimum elong	7284 May 09 20:20	23° $\mathbb{B}$ 11'41	1°42'54
asc. node	7283 Jun 05 07:44	26° $\mathbb{I}$ 42'20			7284 May 13 12:58	0° $\mathbb{I}$	
evening rise	7283 Jun 05 22:05	27° $\mathbb{I}$ 53'10		evening rise	7284 May 19 12:51	11° $\mathbb{I}$ 18'58	
	7283 Jun 06 23:51	0° $\mathbb{E}$		asc. node	7284 May 22 04:47	16° $\mathbb{I}$ 20'36	
evening max el	7283 Jun 22 10:36	24° $\mathbb{E}$ 44'23	19°04'05		7284 May 30 00:48	0° $\mathbb{E}$	
retrograde	7283 Jul 01 05:46	29° $\mathbb{E}$ 04'30		evening max el	7284 Jun 04 15:07	7° $\mathbb{E}$ 09'06	18°25'49
evening set	7283 Jul 03 04:38	28° $\mathbb{E}$ 52'34		retrograde	7284 Jun 12 03:45	10° $\mathbb{E}$ 54'07	
desc. node	7283 Jul 10 12:56	25° $\mathbb{E}$ 19'39		evening set	7284 Jun 14 09:10	10° $\mathbb{E}$ 35'22	
inferior conj	7283 Jul 11 12:42	24° $\mathbb{E}$ 39'11	-0°17'56	inferior conj	7284 Jun 21 21:15	6° $\mathbb{E}$ 01'58	1°18'01
minimum elong	7283 Jul 11 11:57	24° $\mathbb{E}$ 40'29	0°17'43	minimum elong	7284 Jun 21 23:47	5° $\mathbb{E}$ 56'51	1°17'05
min. Earth dist.	7283 Jul 14 11:19	22° $\mathbb{E}$ 38'33	0.56361 AU	min. Earth dist.	7284 Jun 25 06:39	3° $\mathbb{E}$ 19'09	0.58266 AU
morning rise	7283 Jul 19 16:06	19° $\mathbb{E}$ 47'34		desc. node	7284 Jun 26 10:00	2° $\mathbb{E}$ 28'33	
direct	7283 Jul 24 21:17	18° $\mathbb{E}$ 43'52		morning rise	7284 Jun 29 11:06	0° $\mathbb{E}$ 35'21	
morning max el	7283 Aug 08 02:31	26° $\mathbb{E}$ 01'41	25°46'51		7284 Jun 30 17:41	30° $\mathbb{R}$ $\mathbb{I}$	
	7283 Aug 11 20:50	0° $\mathbb{Q}$		direct	7284 Jul 05 11:31	29° $\mathbb{I}$ 01'14	
	7283 Aug 30 23:23	0° $\mathbb{P}$			7284 Jul 10 08:09	0° $\mathbb{E}$	
asc. node	7283 Sep 01 07:09	2° $\mathbb{P}$ 38'21		morning max el	7284 Jul 19 20:54	6° $\mathbb{E}$ 42'57	27°04'01
morning set	7283 Sep 04 17:30	9° $\mathbb{P}$ 45'33			7284 Aug 06 05:42	0° $\mathbb{Q}$	
				asc. node	7284 Aug 18 04:09	22° $\mathbb{Q}$ 26'31	
superior conj	7283 Sep 11 14:59	24° $\mathbb{P}$ 49'18	1°28'27	morning set	7284 Aug 19 02:45	24° $\mathbb{Q}$ 24'55	
minimum elong	7283 Sep 11 13:00	24° $\mathbb{P}$ 38'24	1°28'14		7284 Aug 21 17:18	0° $\mathbb{P}$	
max. Earth dist.	7283 Sep 12 14:35	26° $\mathbb{P}$ 59'18	1.32133 AU	superior conj	7284 Aug 26 02:47	9° $\mathbb{P}$ 40'35	1°13'41
	7283 Sep 13 23:33	0° $\mathbb{A}$		minimum elong	7284 Aug 26 00:31	9° $\mathbb{P}$ 28'02	1°13'19
evening rise	7283 Sep 18 15:24	9° $\mathbb{A}$ 57'47		max. Earth dist.	7284 Aug 26 00:57	9° $\mathbb{P}$ 30'24	1.31762 AU
	7283 Sep 29 02:20	0° $\mathbb{L}$		evening rise	7284 Sep 01 22:12	24° $\mathbb{P}$ 33'16	
desc. node	7283 Oct 06 12:02	11° $\mathbb{L}$ 59'18			7284 Sep 04 12:56	0° $\mathbb{A}$	
evening max el	7283 Oct 20 14:25	29° $\mathbb{L}$ 25'14	27°20'02		7284 Sep 21 23:42	0° $\mathbb{L}$	
	7283 Oct 21 05:24	0° $\mathbb{X}$		desc. node	7284 Sep 22 09:05	0° $\mathbb{L}$ 32'15	
retrograde	7283 Nov 03 10:16	6° $\mathbb{X}$ 38'11		evening max el	7284 Oct 01 16:47	11° $\mathbb{L}$ 23'16	26°38'52
evening set	7283 Nov 10 12:58	4° $\mathbb{X}$ 17'47		retrograde	7284 Oct 15 14:35	18° $\mathbb{L}$ 30'52	
min. Earth dist.	7283 Nov 14 04:55	1° $\mathbb{X}$ 27'29	0.61849 AU	evening set	7284 Oct 22 09:41	16° $\mathbb{L}$ 34'59	
	7283 Nov 15 19:50	30° $\mathbb{R}$ $\mathbb{L}$		min. Earth dist.	7284 Oct 26 06:30	13° $\mathbb{L}$ 59'30	0.59786 AU
inferior conj	7283 Nov 17 04:41	28° $\mathbb{L}$ 44'44	-3°28'39	inferior conj	7284 Oct 29 11:36	11° $\mathbb{L}$ 26'50	-4°30'55
minimum elong	7283 Nov 17 10:58	28° $\mathbb{L}$ 30'26	3°26'30	minimum elong	7284 Oct 29 18:33	11° $\mathbb{L}$ 13'03	4°29'11
morning rise	7283 Nov 24 11:01	23° $\mathbb{L}$ 43'52		morning rise	7284 Nov 06 05:39	6° $\mathbb{L}$ 47'51	
direct	7283 Nov 26 17:31	23° $\mathbb{L}$ 21'36		direct	7284 Nov 08 11:54	6° $\mathbb{L}$ 29'10	
asc. node	7283 Nov 28 06:31	23° $\mathbb{L}$ 32'12		asc. node	7284 Nov 14 03:35	8° $\mathbb{L}$ 32'51	
morning max el	7283 Dec 03 15:41	26° $\mathbb{L}$ 52'04	17°51'43	morning max el	7284 Nov 16 03:23	10° $\mathbb{L}$ 14'39	18°12'58
	7283 Dec 06 09:34	0° $\mathbb{X}$			7284 Nov 29 01:52	0° $\mathbb{X}$	
morning set	7283 Dec 19 10:23	21° $\mathbb{X}$ 31'45		morning set	7284 Dec 01 22:02	5° $\mathbb{X}$ 19'57	
	7283 Dec 24 03:34	0° $\mathbb{B}$					
superior conj	7283 Dec 30 06:37	10° $\mathbb{B}$ 43'07	0°23'09	superior conj	7284 Dec 11 08:45	22° $\mathbb{X}$ 55'56	0°56'27
minimum elong	7283 Dec 30 08:40	10° $\mathbb{B}$ 51'52	0°22'55	minimum elong	7284 Dec 11 12:17	23° $\mathbb{X}$ 11'55	0°56'04
desc. node	7284 Jan 02 11:15	16° $\mathbb{B}$ 08'03			7284 Dec 15 08:03	0° $\mathbb{B}$	
				max. Earth dist.	7284 Dec 19 00:03	6° $\mathbb{B}$ 18'46	1.41243 AU

desc. node	7284 Dec 19 08:16	6°♄53'32		desc. node	7285 Dec 06 05:15	27°♄35'49	
evening rise	7284 Dec 23 20:40	14°♄22'46			7285 Dec 07 15:37	0°♄	
	7285 Jan 02 20:18	0°♄			7285 Dec 27 12:17	0°♄	
	7285 Jan 25 03:53	0°♄		evening max el	7286 Jan 09 09:13	15°♄27'38	24°26'07
evening max el	7285 Jan 26 19:45	1°♄44'02	23°06'31	retrograde	7286 Jan 20 18:56	22°♄08'25	
retrograde	7285 Feb 06 03:13	7°♄50'39		evening set	7286 Jan 26 05:16	19°♄52'34	
asc. node	7285 Feb 10 02:44	6°♄31'14		asc. node	7286 Jan 27 23:49	18°♄08'13	
evening set	7285 Feb 11 00:58	5°♄48'52		min. Earth dist.	7286 Jan 30 20:38	14°♄34'36	0.67946 AU
	7285 Feb 15 23:44	30°♄		inferior conj	7286 Jan 31 17:34	13°♄24'28	1°12'55
inferior conj	7285 Feb 16 10:18	29°♄23'33	1°57'35	minimum elong	7286 Jan 31 15:57	13°♄29'53	1°12'21
minimum elong	7285 Feb 16 08:07	29°♄31'06	1°56'54	morning rise	7286 Feb 06 02:46	7°♄23'42	
min. Earth dist.	7285 Feb 16 00:38	29°♄56'54	0.68297 AU	direct	7286 Feb 09 22:25	6°♄00'18	
morning rise	7285 Feb 21 15:12	23°♄16'37		morning max el	7286 Feb 17 13:34	10°♄18'49	20°04'46
direct	7285 Feb 26 00:07	21°♄31'04		desc. node	7286 Mar 04 04:41	29°♄31'28	
morning max el	7285 Mar 06 15:16	26°♄30'38	21°18'24		7286 Mar 04 12:26	0°♄	
	7285 Mar 09 20:03	0°♄		morning set	7286 Mar 16 19:40	18°♄37'02	
desc. node	7285 Mar 17 07:42	9°♄40'00			7286 Mar 24 02:48	0°♄	
	7285 Mar 31 05:25	0°♄		max. Earth dist.	7286 Mar 27 07:04	5°♄02'45	1.44003 AU
morning set	7285 Apr 06 21:21	10°♄19'54		superior conj	7286 Apr 01 21:44	14°♄06'57	-2°11'02
max. Earth dist.	7285 Apr 13 22:09	21°♄38'38	1.42318 AU	minimum elong	7286 Apr 01 21:12	14°♄04'45	2°11'04
	7285 Apr 18 22:25	0°♄			7286 Apr 11 09:39	0°♄	
superior conj	7285 Apr 21 06:36	3°♄59'47	-2°03'53	evening rise	7286 Apr 14 21:44	6°♄00'44	
minimum elong	7285 Apr 21 10:58	4°♄18'33	2°03'42	asc. node	7286 Apr 25 22:53	24°♄34'00	
evening rise	7285 May 02 14:18	24°♄05'15			7286 Apr 29 17:53	0°♄	
	7285 May 05 20:52	0°♄		evening max el	7286 May 02 14:45	3°♄18'12	18°08'36
asc. node	7285 May 09 01:50	5°♄40'14		retrograde	7286 May 09 00:35	6°♄39'39	
evening max el	7285 May 19 01:41	20°♄03'41	18°07'35	evening set	7286 May 11 20:21	5°♄58'59	
retrograde	7285 May 25 19:31	23°♄29'27		inferior conj	7286 May 18 00:57	0°♄46'13	3°05'05
evening set	7285 May 28 08:12	23°♄00'49		minimum elong	7286 May 18 03:10	0°♄40'17	3°04'39
inferior conj	7285 Jun 04 02:35	18°♄07'07	2°24'59		7286 May 18 18:12	30°♄	
minimum elong	7285 Jun 04 05:44	17°♄59'44	2°24'05	min. Earth dist.	7286 May 20 20:27	27°♄47'19	0.62672 AU
min. Earth dist.	7285 Jun 07 09:12	15°♄04'12	0.60473 AU	morning rise	7286 May 24 08:24	24°♄38'44	
morning rise	7285 Jun 11 00:42	12°♄14'41		direct	7286 May 31 03:24	22°♄06'41	
desc. node	7285 Jun 13 07:03	11°♄02'35		desc. node	7286 May 31 04:05	22°♄06'41	
direct	7285 Jun 17 14:21	10°♄08'22		morning max el	7286 Jun 14 04:45	0°♄09'16	27°52'20
morning max el	7285 Jul 01 22:07	18°♄05'12	27°47'15		7286 Jun 14 01:02	0°♄	
	7285 Jul 11 21:18	0°♄		morning set	7286 Jul 05 22:27	0°♄	
	7285 Jul 29 22:33	0°♄			7286 Jul 18 07:40	22°♄56'11	
morning set	7285 Aug 03 08:11	8°♄50'51			7286 Jul 21 17:46	0°♄	
asc. node	7285 Aug 05 01:09	12°♄25'35		asc. node	7286 Jul 22 22:09	2°♄30'16	
max. Earth dist.	7285 Aug 09 11:00	21°♄58'06	1.31835 AU	max. Earth dist.	7286 Jul 23 16:45	4°♄09'43	1.32364 AU
superior conj	7285 Aug 10 13:59	24°♄26'42	0°54'15	superior conj	7286 Jul 25 22:44	9°♄01'15	0°30'37
minimum elong	7285 Aug 10 11:55	24°♄15'16	0°53'50	minimum elong	7286 Jul 25 21:21	8°♄53'46	0°30'16
	7285 Aug 13 02:20	0°♄		evening rise	7286 Aug 01 20:03	23°♄59'43	
evening rise	7285 Aug 17 08:25	9°♄16'11			7286 Aug 04 16:44	0°♄	
	7285 Aug 27 22:40	0°♄			7286 Aug 23 03:48	0°♄	
desc. node	7285 Sep 09 06:08	18°♄01'34		evening max el	7286 Aug 25 23:25	2°♄57'29	23°53'04
evening max el	7285 Sep 13 11:04	22°♄30'24	25°26'27	desc. node	7286 Aug 27 03:10	4°♄01'58	
retrograde	7285 Sep 27 09:08	29°♄33'14		retrograde	7286 Sep 08 15:50	9°♄49'08	
evening set	7285 Oct 03 07:53	28°♄11'25		evening set	7286 Sep 13 05:33	9°♄03'13	
min. Earth dist.	7285 Oct 07 22:58	25°♄33'03	0.57749 AU	min. Earth dist.	7286 Sep 19 09:54	6°♄03'18	0.56026 AU
inferior conj	7285 Oct 10 23:43	23°♄27'51	-5°16'33	inferior conj	7286 Sep 21 15:33	4°♄41'51	-5°28'36
minimum elong	7285 Oct 11 04:19	23°♄19'55	5°15'59	minimum elong	7286 Sep 21 13:54	4°♄44'21	5°28'32
morning rise	7285 Oct 19 03:04	19°♄12'01		morning rise	7286 Sep 30 00:31	0°♄45'20	
direct	7285 Oct 21 13:15	18°♄54'12		direct	7286 Oct 02 19:08	0°♄25'45	
morning max el	7285 Oct 30 07:04	23°♄04'38	18°55'10	morning max el	7286 Oct 12 23:28	5°♄12'01	19°59'35
asc. node	7285 Nov 01 00:36	24°♄53'05		asc. node	7286 Oct 18 21:36	12°♄17'22	
	7285 Nov 04 21:54	0°♄			7286 Oct 28 22:48	0°♄	
morning set	7285 Nov 15 19:51	19°♄35'51		morning set	7286 Oct 31 00:30	4°♄10'14	
	7285 Nov 21 02:45	0°♄		superior conj	7286 Nov 07 17:57	19°♄53'33	1°34'47
superior conj	7285 Nov 24 06:12	6°♄04'12	1°20'09	minimum elong	7286 Nov 07 19:57	20°♄03'33	1°34'43
minimum elong	7285 Nov 24 09:24	6°♄19'25	1°19'53		7286 Nov 12 22:15	0°♄	
max. Earth dist.	7285 Dec 01 05:52	18°♄57'47	1.39114 AU	max. Earth dist.	7286 Nov 13 11:36	1°♄03'10	1.37002 AU
evening rise	7285 Dec 05 02:57	25°♄43'58		evening rise	7286 Nov 17 06:29	8°♄02'26	

desc. node	7286 Nov 23 02:16	18°♊11'07		max. Earth dist.	7287 Oct 26 22:41	12°♍56'38	1.35127 AU
	7286 Nov 30 10:28	0°♊		evening rise	7287 Oct 31 03:36	21°♍08'14	
evening max el	7286 Dec 22 22:10	29°♊14'09	25°39'21		7287 Nov 04 23:25	0°♊	
	7286 Dec 23 17:19	0°♊		desc. node	7287 Nov 09 23:17	8°♊34'18	
retrograde	7287 Jan 04 06:05	6°♊18'16			7287 Nov 24 07:39	0°♊	
evening set	7287 Jan 10 05:18	3°♊50'41		evening max el	7287 Dec 05 11:22	12°♊57'20	26°38'49
	7287 Jan 13 20:40	30°♊		retrograde	7287 Dec 18 11:41	20°♊13'20	
min. Earth dist.	7287 Jan 14 13:38	29°♊07'10	0.67227 AU	evening set	7287 Dec 24 23:15	17°♊37'57	
asc. node	7287 Jan 14 20:52	28°♊44'18		min. Earth dist.	7287 Dec 29 01:16	13°♊29'19	0.66149 AU
inferior conj	7287 Jan 15 21:46	27°♊24'49	0°20'49	inferior conj	7287 Dec 30 20:54	11°♊19'50	-0°38'00
minimum elong	7287 Jan 15 21:14	27°♊26'31	0°20'41	minimum elong	7287 Dec 30 21:57	11°♊16'41	0°37'27
morning rise	7287 Jan 21 13:36	21°♊32'09		asc. node	7288 Jan 01 17:54	9°♊09'56	
direct	7287 Jan 24 21:29	20°♊28'30		morning rise	7288 Jan 05 21:32	5°♊37'49	
morning max el	7287 Jan 31 19:42	24°♊17'34	19°05'44	direct	7288 Jan 08 19:24	4°♊50'35	
	7287 Feb 05 16:20	0°♊		morning max el	7288 Jan 15 08:10	8°♊21'41	18°22'51
greatest brilliancy	7287 Feb 14 12:56	12°♊47'21	-0.8m		7288 Jan 30 13:47	0°♊	
desc. node	7287 Feb 19 01:39	19°♊43'46		morning set	7288 Feb 04 02:00	7°♊12'28	
morning set	7287 Feb 23 22:24	27°♊15'39		desc. node	7288 Feb 05 22:36	10°♊10'41	
	7287 Feb 25 16:43	0°♊			7288 Feb 18 11:21	0°♊	
max. Earth dist.	7287 Mar 09 22:16	19°♊06'05	1.45091 AU				
				superior conj	7288 Feb 19 17:48	1°♊59'24	-1°28'16
superior conj	7287 Mar 12 13:37	23°♊15'50	-1°59'25	minimum elong	7288 Feb 19 08:22	1°♊22'25	1°27'13
minimum elong	7287 Mar 12 06:21	22°♊47'04	1°58'58	max. Earth dist.	7288 Feb 20 17:22	3°♊31'42	1.45465 AU
	7287 Mar 16 19:23	0°♊		evening rise	7288 Mar 06 16:59	27°♊00'50	
evening rise	7287 Mar 27 07:02	16°♊58'44			7288 Mar 08 14:31	0°♊	
	7287 Apr 04 05:58	0°♊		greatest brilliancy	7288 Mar 17 00:09	13°♊09'18	-0.8m
asc. node	7287 Apr 12 19:56	12°♊53'52			7288 Mar 29 05:40	0°♊	
evening max el	7287 Apr 16 03:22	16°♊45'29	18°28'10	evening max el	7288 Mar 29 13:00	0°♊18'51	19°05'17
retrograde	7287 Apr 22 14:43	20°♊16'11		asc. node	7288 Mar 29 17:00	0°♊28'55	
evening set	7287 Apr 25 17:29	19°♊22'09		retrograde	7288 Apr 05 10:15	4°♊11'10	
inferior conj	7287 May 01 12:15	13°♊51'36	3°23'33	evening set	7288 Apr 08 20:27	3°♊02'57	
minimum elong	7287 May 01 13:03	13°♊49'12	3°23'27		7288 Apr 12 03:26	30°♊	
min. Earth dist.	7287 May 03 16:52	11°♊16'41	0.64626 AU	inferior conj	7288 Apr 14 08:48	27°♊16'07	3°25'16
morning rise	7287 May 07 07:48	7°♊37'05		minimum elong	7288 Apr 14 08:17	27°♊17'47	3°25'13
direct	7287 May 14 00:36	4°♊51'11		min. Earth dist.	7288 Apr 15 21:54	25°♊17'49	0.66198 AU
desc. node	7287 May 18 01:06	5°♊42'21		morning rise	7288 Apr 19 19:43	20°♊59'21	
morning max el	7287 May 27 14:21	12°♊48'12	27°21'46	direct	7288 Apr 26 04:24	18°♊12'26	
	7287 Jun 10 09:03	0°♊		desc. node	7288 May 03 22:05	21°♊20'22	
	7287 Jun 28 12:13	0°♊		morning max el	7288 May 09 00:32	25°♊50'42	26°22'22
morning set	7287 Jul 01 22:33	6°♊33'35			7288 May 12 20:02	0°♊	
max. Earth dist.	7287 Jul 06 14:32	15°♊56'06	1.33369 AU		7288 Jun 02 22:05	0°♊	
asc. node	7287 Jul 09 19:08	22°♊36'40		morning set	7288 Jun 14 01:26	19°♊33'28	
				max. Earth dist.	7288 Jun 18 01:50	27°♊15'37	1.34847 AU
superior conj	7287 Jul 10 03:03	23°♊18'36	0°03'23		7288 Jun 19 11:07	0°♊	
minimum elong	7287 Jul 10 02:52	23°♊17'42	0°03'15				
behind sun begin	7287 Jul 09 21:28	22°♊49'02		superior conj	7288 Jun 23 00:34	7°♊11'57	-0°26'37
behind sun end	7287 Jul 10 08:17	23°♊46'24		minimum elong	7288 Jun 23 02:04	7°♊19'40	0°26'24
	7287 Jul 13 06:10	0°♊		asc. node	7288 Jun 25 16:10	12°♊41'00	
evening rise	7287 Jul 17 07:16	8°♊38'30		evening rise	7288 Jun 30 16:05	23°♊06'33	
	7287 Jul 28 11:25	0°♊			7288 Jul 04 01:20	0°♊	
evening max el	7287 Aug 07 12:52	13°♊13'50	22°14'36	evening max el	7288 Jul 19 11:33	23°♊53'08	20°45'57
desc. node	7287 Aug 14 00:14	18°♊02'14		retrograde	7288 Jul 30 22:13	29°♊32'20	
retrograde	7287 Aug 20 09:59	19°♊38'00		desc. node	7288 Jul 30 21:17	29°♊32'20	
evening set	7287 Aug 23 11:56	19°♊17'01		evening set	7288 Aug 02 01:02	29°♊21'31	
min. Earth dist.	7287 Aug 31 18:49	15°♊41'04	0.54951 AU	inferior conj	7288 Aug 11 07:13	25°♊24'32	-3°20'04
inferior conj	7287 Sep 01 14:28	15°♊13'24	-4°50'02	minimum elong	7288 Aug 10 22:32	25°♊36'54	3°17'18
minimum elong	7287 Sep 01 06:20	15°♊24'52	4°48'28	min. Earth dist.	7288 Aug 12 04:30	24°♊54'13	0.54764 AU
morning rise	7287 Sep 10 02:21	11°♊24'47		morning rise	7288 Aug 19 19:59	21°♊24'32	
direct	7287 Sep 13 09:08	11°♊00'37		direct	7288 Aug 23 17:44	20°♊51'51	
morning max el	7287 Sep 25 03:01	16°♊31'03	21°25'21	morning max el	7288 Sep 05 20:14	27°♊09'00	23°06'44
	7287 Oct 05 11:04	0°♊			7288 Sep 08 15:07	0°♊	
asc. node	7287 Oct 05 18:35	0°♊31'18		asc. node	7288 Sep 21 15:35	19°♊23'07	
morning set	7287 Oct 15 09:26	18°♊55'39			7288 Sep 27 01:19	0°♊	
	7287 Oct 20 15:45	0°♊		morning set	7288 Sep 28 20:40	3°♊46'36	
superior conj	7287 Oct 22 15:50	4°♊11'35	1°41'24	superior conj	7288 Oct 05 20:40	18°♊49'06	1°41'05
minimum elong	7287 Oct 22 16:26	4°♊14'41	1°41'26	minimum elong	7288 Oct 05 20:00	18°♊45'32	1°41'05

max. Earth dist.	7288 Oct 08 18:04	24° $\Omega$ 57'29	1.33623 AU	minimum elong	7289 Sep 20 04:13	3° $\Omega$ 28'26	1°34'32
	7288 Oct 11 04:29	0° $\mathbb{M}$		max. Earth dist.	7289 Sep 21 21:16	7° $\Omega$ 12'19	1.32548 AU
evening rise	7288 Oct 13 14:22	4° $\mathbb{M}$ 51'12		evening rise	7289 Sep 27 11:08	19° $\Omega$ 00'54	
desc. node	7288 Oct 26 20:20	28° $\mathbb{M}$ 39'27			7289 Oct 03 01:10	0° $\mathbb{M}$	
	7288 Oct 27 16:26	0° $\mathbb{A}$		desc. node	7289 Oct 13 17:24	18° $\mathbb{M}$ 17'56	
evening max el	7288 Nov 17 00:11	26° $\mathbb{A}$ 27'17	27°17'12		7289 Oct 21 23:30	0° $\mathbb{A}$	
	7288 Nov 21 04:08	0° $\mathbb{B}$		evening max el	7289 Oct 30 10:47	9° $\mathbb{A}$ 30'55	27°28'04
retrograde	7288 Nov 30 11:20	3° $\mathbb{B}$ 46'20		retrograde	7289 Nov 13 04:27	16° $\mathbb{A}$ 47'36	
evening set	7288 Dec 07 08:52	1° $\mathbb{B}$ 09'13		evening set	7289 Nov 20 07:19	14° $\mathbb{A}$ 17'42	
	7288 Dec 08 18:15	30° $\mathbb{R}$ $\mathbb{A}$		min. Earth dist.	7289 Nov 23 23:40	11° $\mathbb{A}$ 13'36	0.62974 AU
min. Earth dist.	7288 Dec 11 05:13	27° $\mathbb{A}$ 34'44	0.64724 AU	inferior conj	7289 Nov 26 18:15	8° $\mathbb{A}$ 31'37	-2°49'52
inferior conj	7288 Dec 13 12:39	25° $\mathbb{A}$ 04'29	-1°42'19	minimum elong	7289 Nov 26 23:29	8° $\mathbb{A}$ 18'51	2°47'52
minimum elong	7288 Dec 13 15:44	24° $\mathbb{A}$ 56'07	1°40'57	morning rise	7289 Dec 03 17:33	3° $\mathbb{A}$ 20'04	
asc. node	7288 Dec 18 14:56	20° $\mathbb{A}$ 21'32		asc. node	7289 Dec 05 11:58	2° $\mathbb{A}$ 55'59	
morning rise	7288 Dec 19 23:58	19° $\mathbb{A}$ 36'06		direct	7289 Dec 06 01:50	2° $\mathbb{A}$ 54'24	
direct	7288 Dec 22 13:51	19° $\mathbb{A}$ 01'30		morning max el	7289 Dec 12 17:45	6° $\mathbb{A}$ 19'55	17°48'20
morning max el	7288 Dec 29 00:32	22° $\mathbb{A}$ 25'10	17°56'51		7289 Dec 28 04:19	0° $\mathbb{B}$	
	7289 Jan 03 23:50	0° $\mathbb{B}$		morning set	7289 Dec 28 20:56	1° $\mathbb{B}$ 12'53	
morning set	7289 Jan 15 11:08	18° $\mathbb{B}$ 37'10					
	7289 Jan 22 07:54	0° $\approx$		superior conj	7290 Jan 09 16:55	21° $\mathbb{B}$ 32'41	-0°00'05
desc. node	7289 Jan 22 19:37	0° $\approx$ 47'57		minimum elong	7290 Jan 09 16:55	21° $\mathbb{B}$ 32'39	0°00'01
				behind sun begin	7290 Jan 09 09:30	21° $\mathbb{B}$ 01'44	
superior conj	7289 Jan 29 06:02	11° $\approx$ 12'10	-0°44'51	behind sun end	7290 Jan 10 00:20	22° $\mathbb{B}$ 03'31	
minimum elong	7289 Jan 29 00:45	10° $\approx$ 51'03	0°44'04	desc. node	7290 Jan 09 16:39	21° $\mathbb{B}$ 31'30	
max. Earth dist.	7289 Feb 02 13:10	18° $\approx$ 01'21	1.45090 AU		7290 Jan 14 20:36	0° $\approx$	
	7289 Feb 10 05:14	0° $\mathbb{H}$		max. Earth dist.	7290 Jan 16 06:25	2° $\approx$ 16'12	1.44013 AU
evening rise	7289 Feb 14 09:06	6° $\mathbb{H}$ 25'20		evening rise	7290 Jan 24 20:16	15° $\approx$ 45'36	
greatest brilliancy	7289 Feb 28 21:12	28° $\mathbb{H}$ 22'24	-0.6m		7290 Feb 03 05:46	0° $\mathbb{H}$	
	7289 Mar 01 23:57	0° $\mathbb{Y}$		evening max el	7290 Feb 23 17:15	27° $\mathbb{H}$ 32'15	21°04'48
evening max el	7289 Mar 12 17:52	13° $\mathbb{Y}$ 54'43	19°58'21		7290 Feb 26 09:45	0° $\mathbb{Y}$	
asc. node	7289 Mar 16 14:03	17° $\mathbb{Y}$ 06'25		asc. node	7290 Mar 03 11:07	2° $\mathbb{Y}$ 32'05	
retrograde	7289 Mar 20 08:22	18° $\mathbb{Y}$ 19'02		retrograde	7290 Mar 04 06:48	2° $\mathbb{Y}$ 35'35	
evening set	7289 Mar 24 02:50	16° $\mathbb{Y}$ 56'11		evening set	7290 Mar 08 10:43	0° $\mathbb{Y}$ 57'49	
inferior conj	7289 Mar 29 11:38	10° $\mathbb{Y}$ 54'58	3°13'46		7290 Mar 09 12:46	30° $\mathbb{R}$ $\mathbb{H}$	
minimum elong	7289 Mar 29 10:06	11° $\mathbb{Y}$ 00'07	3°13'32	inferior conj	7290 Mar 13 18:18	24° $\mathbb{H}$ 44'44	2°51'25
min. Earth dist.	7289 Mar 30 10:09	9° $\mathbb{Y}$ 39'13	0.67337 AU	minimum elong	7290 Mar 13 16:10	24° $\mathbb{H}$ 52'08	2°50'57
morning rise	7289 Apr 03 17:08	4° $\mathbb{Y}$ 38'41		min. Earth dist.	7290 Mar 14 03:33	24° $\mathbb{H}$ 12'44	0.68038 AU
direct	7289 Apr 09 13:59	2° $\mathbb{Y}$ 01'26		morning rise	7290 Mar 18 21:25	18° $\mathbb{H}$ 30'48	
desc. node	7289 Apr 20 19:06	8° $\mathbb{Y}$ 29'29		direct	7290 Mar 24 04:35	16° $\mathbb{H}$ 10'39	
morning max el	7289 Apr 21 09:57	9° $\mathbb{Y}$ 06'33	25°03'10	morning max el	7290 Apr 03 19:06	22° $\mathbb{H}$ 29'54	23°34'27
	7289 May 07 20:41	0° $\mathbb{B}$		desc. node	7290 Apr 07 16:07	26° $\mathbb{H}$ 44'49	
	7289 May 26 12:33	0° $\mathbb{I}$			7290 Apr 10 08:27	0° $\mathbb{Y}$	
morning set	7289 May 27 11:43	1° $\mathbb{I}$ 42'55			7290 May 01 04:32	0° $\mathbb{B}$	
max. Earth dist.	7289 May 31 02:56	8° $\mathbb{I}$ 19'35	1.36750 AU	morning set	7290 May 08 23:55	12° $\mathbb{B}$ 48'00	
				max. Earth dist.	7290 May 12 22:38	19° $\mathbb{B}$ 36'23	1.38935 AU
superior conj	7289 Jun 06 12:17	20° $\mathbb{I}$ 32'45	-0°57'51		7290 May 18 17:10	0° $\mathbb{I}$	
minimum elong	7289 Jun 06 15:44	20° $\mathbb{I}$ 49'41	0°57'20				
	7289 Jun 11 05:51	0° $\mathbb{E}$		superior conj	7290 May 20 10:35	3° $\mathbb{I}$ 12'35	-1°27'59
asc. node	7289 Jun 12 13:12	2° $\mathbb{E}$ 38'32		minimum elong	7290 May 20 15:42	3° $\mathbb{I}$ 36'32	1°27'20
evening rise	7289 Jun 14 20:11	7° $\mathbb{E}$ 16'19		evening rise	7290 May 29 16:47	21° $\mathbb{I}$ 00'43	
	7289 Jun 27 13:57	0° $\mathbb{Q}$		asc. node	7290 May 30 10:15	22° $\mathbb{I}$ 25'25	
evening max el	7289 Jul 01 23:10	5° $\mathbb{Q}$ 13'31	19°35'23		7290 Jun 03 09:41	0° $\mathbb{E}$	
retrograde	7289 Jul 11 16:49	10° $\mathbb{Q}$ 01'08		evening max el	7290 Jun 14 22:32	17° $\mathbb{E}$ 17'05	18°45'21
evening set	7289 Jul 13 13:38	9° $\mathbb{Q}$ 51'19		retrograde	7290 Jun 23 03:34	21° $\mathbb{E}$ 20'32	
desc. node	7289 Jul 17 18:21	8° $\mathbb{Q}$ 25'52		evening set	7290 Jun 25 04:44	21° $\mathbb{E}$ 06'18	
inferior conj	7289 Jul 22 08:19	5° $\mathbb{Q}$ 46'54	-1°23'37	inferior conj	7290 Jul 03 04:18	16° $\mathbb{E}$ 44'59	0°26'04
minimum elong	7289 Jul 22 04:31	5° $\mathbb{Q}$ 52'56	1°22'13	minimum elong	7290 Jul 03 05:18	16° $\mathbb{E}$ 43'09	0°25'37
min. Earth dist.	7289 Jul 24 16:55	4° $\mathbb{Q}$ 17'36	0.55527 AU	desc. node	7290 Jul 04 15:24	15° $\mathbb{E}$ 40'05	
morning rise	7289 Jul 30 17:01	1° $\mathbb{Q}$ 16'20		min. Earth dist.	7290 Jul 06 09:33	14° $\mathbb{E}$ 23'50	0.57105 AU
direct	7289 Aug 04 09:43	0° $\mathbb{Q}$ 27'07		morning rise	7290 Jul 11 02:24	11° $\mathbb{E}$ 37'21	
morning max el	7289 Aug 18 09:13	7° $\mathbb{Q}$ 26'19	24°51'32	direct	7290 Jul 16 16:10	10° $\mathbb{E}$ 21'16	
	7289 Sep 03 20:39	0° $\mathbb{P}$		morning max el	7290 Jul 31 00:21	17° $\mathbb{E}$ 51'28	26°23'13
asc. node	7289 Sep 08 12:35	8° $\mathbb{P}$ 42'33			7290 Aug 10 02:47	0° $\mathbb{Q}$	
morning set	7289 Sep 13 08:25	18° $\mathbb{P}$ 36'57		asc. node	7290 Aug 26 09:37	28° $\mathbb{Q}$ 22'06	
	7289 Sep 18 14:12	0° $\mathbb{U}$			7290 Aug 27 04:36	0° $\mathbb{P}$	
				morning set	7290 Aug 28 19:02	3° $\mathbb{P}$ 21'42	
superior conj	7289 Sep 20 05:50	3° $\mathbb{U}$ 37'14	1°34'39				

superior conj	7290 Sep 04 17:13	18° $\mathbb{M}$ 29'20	1°22'47	superior conj	7291 Aug 20 04:59	3° $\mathbb{M}$ 19'10	1°06'00
minimum elong	7290 Sep 04 15:04	18° $\mathbb{M}$ 17'25	1°22'30	minimum elong	7291 Aug 20 02:44	3° $\mathbb{M}$ 06'45	1°05'36
max. Earth dist.	7290 Sep 05 05:46	19° $\mathbb{M}$ 38'48	1.31918 AU	evening rise	7291 Aug 26 23:27	18° $\mathbb{M}$ 08'43	
	7290 Sep 09 23:32	0° $\mathfrak{L}$			7291 Sep 01 18:54	0° $\mathfrak{L}$	
evening rise	7290 Sep 11 14:58	3° $\mathfrak{L}$ 29'09		desc. node	7291 Sep 17 11:29	25° $\mathfrak{L}$ 27'54	
	7290 Sep 25 19:52	0° $\mathbb{M}$			7291 Sep 21 05:31	0° $\mathbb{M}$	
desc. node	7290 Sep 30 14:27	7° $\mathbb{M}$ 19'02		evening max el	7291 Sep 24 16:10	3° $\mathbb{M}$ 34'00	26°11'39
evening max el	7290 Oct 12 16:54	21° $\mathbb{M}$ 56'16	27°06'35	retrograde	7291 Oct 08 14:42	10° $\mathbb{M}$ 39'28	
retrograde	7290 Oct 26 14:10	29° $\mathbb{M}$ 07'40		evening set	7291 Oct 15 02:35	8° $\mathbb{M}$ 57'35	
evening set	7290 Nov 02 14:48	26° $\mathbb{M}$ 56'16		min. Earth dist.	7291 Oct 19 05:17	6° $\mathbb{M}$ 22'59	0.58897 AU
min. Earth dist.	7290 Nov 06 07:35	24° $\mathbb{M}$ 13'57	0.60982 AU	inferior conj	7291 Oct 22 09:52	4° $\mathbb{M}$ 00'01	-4°53'14
inferior conj	7290 Nov 09 10:29	21° $\mathbb{M}$ 33'13	-3°56'16	minimum elong	7291 Oct 22 16:16	3° $\mathbb{M}$ 48'00	4°51'57
minimum elong	7290 Nov 09 17:17	21° $\mathbb{M}$ 18'33	3°54'11		7291 Oct 28 20:31	30° $\mathbb{R}$ $\mathfrak{L}$	
morning rise	7290 Nov 16 22:01	16° $\mathbb{M}$ 41'29		morning rise	7291 Oct 30 08:13	29° $\mathfrak{L}$ 30'33	
direct	7290 Nov 19 03:46	16° $\mathbb{M}$ 21'14		direct	7291 Nov 01 15:30	29° $\mathfrak{L}$ 12'35	
asc. node	7290 Nov 22 09:01	17° $\mathbb{M}$ 04'52			7291 Nov 05 06:43	0° $\mathbb{M}$	
morning max el	7290 Nov 26 08:28	19° $\mathbb{M}$ 57'15	17°58'14	asc. node	7291 Nov 09 06:03	2° $\mathbb{M}$ 41'42	
	7290 Dec 03 18:48	0° $\mathfrak{A}$		morning max el	7291 Nov 09 17:12	3° $\mathbb{M}$ 07'51	18°28'10
morning set	7290 Dec 12 00:46	14° $\mathfrak{A}$ 39'31		morning set	7291 Nov 25 17:19	28° $\mathbb{M}$ 41'59	
	7290 Dec 20 11:12	0° $\mathfrak{Z}$			7291 Nov 26 09:32	0° $\mathfrak{A}$	
superior conj	7290 Dec 22 05:34	3° $\mathfrak{Z}$ 07'04	0°38'26	superior conj	7291 Dec 04 16:37	15° $\mathfrak{A}$ 46'01	1°07'39
minimum elong	7290 Dec 22 08:32	3° $\mathfrak{Z}$ 20'04	0°38'05	minimum elong	7291 Dec 04 20:10	16° $\mathfrak{A}$ 02'26	1°07'18
desc. node	7290 Dec 27 13:37	12° $\mathfrak{Z}$ 17'20		max. Earth dist.	7291 Dec 12 03:26	29° $\mathfrak{A}$ 06'37	1.40359 AU
max. Earth dist.	7290 Dec 29 19:05	16° $\mathfrak{Z}$ 00'30	1.42371 AU		7291 Dec 12 15:49	0° $\mathfrak{Z}$	
evening rise	7291 Jan 04 17:40	25° $\mathfrak{Z}$ 38'03		desc. node	7291 Dec 14 10:37	3° $\mathfrak{Z}$ 02'32	
	7291 Jan 07 12:18	0° $\approx$		evening rise	7291 Dec 16 11:14	6° $\mathfrak{Z}$ 26'13	
	7291 Jan 28 03:02	0° $\mathfrak{H}$			7291 Dec 31 15:05	0° $\approx$	
evening max el	7291 Feb 06 11:37	11° $\mathfrak{H}$ 11'37	22°20'45	evening max el	7292 Jan 20 02:32	24° $\approx$ 54'47	23°40'42
retrograde	7291 Feb 16 03:36	16° $\mathfrak{H}$ 55'52			7292 Jan 26 11:53	0° $\mathfrak{H}$	
asc. node	7291 Feb 18 08:12	16° $\mathfrak{H}$ 31'13		retrograde	7292 Jan 30 21:24	1° $\mathfrak{H}$ 16'22	
evening set	7291 Feb 20 18:25	15° $\mathfrak{H}$ 02'59			7292 Feb 03 21:03	30° $\mathbb{R}$ $\approx$	
inferior conj	7291 Feb 26 02:40	8° $\mathfrak{H}$ 41'12	2°19'42	evening set	7292 Feb 05 00:23	29° $\approx$ 08'38	
minimum elong	7291 Feb 26 00:22	8° $\mathfrak{H}$ 49'12	2°19'03	asc. node	7292 Feb 05 05:15	28° $\approx$ 58'08	
min. Earth dist.	7291 Feb 25 23:45	8° $\mathfrak{H}$ 51'20	0.68319 AU	inferior conj	7292 Feb 10 10:52	22° $\approx$ 41'49	1°39'35
morning rise	7291 Mar 03 06:09	2° $\mathfrak{H}$ 31'09		minimum elong	7292 Feb 10 08:51	22° $\approx$ 48'39	1°38'55
direct	7291 Mar 07 23:09	0° $\mathfrak{H}$ 32'21		min. Earth dist.	7292 Feb 09 20:27	23° $\approx$ 31'03	0.68203 AU
morning max el	7291 Mar 17 06:41	6° $\mathfrak{H}$ 00'03	22°05'54	morning rise	7292 Feb 15 17:17	16° $\approx$ 37'13	
desc. node	7291 Mar 25 13:06	15° $\mathfrak{H}$ 47'09		direct	7292 Feb 19 20:32	15° $\approx$ 01'03	
	7291 Apr 04 16:47	0° $\mathfrak{Y}$		morning max el	7292 Feb 28 00:27	19° $\approx$ 41'26	20°45'20
morning set	7291 Apr 19 08:48	22° $\mathfrak{Y}$ 35'27			7292 Mar 07 12:58	0° $\mathfrak{H}$	
	7291 Apr 23 21:17	0° $\mathfrak{B}$		desc. node	7292 Mar 11 10:04	5° $\mathfrak{H}$ 23'45	
max. Earth dist.	7291 Apr 24 20:27	1° $\mathfrak{B}$ 36'44	1.41151 AU		7292 Mar 27 20:57	0° $\mathfrak{Y}$	
superior conj	7291 May 02 14:51	15° $\mathfrak{B}$ 00'24	-1°53'22	morning set	7292 Mar 28 15:49	1° $\mathfrak{Y}$ 13'17	
minimum elong	7291 May 02 20:17	15° $\mathfrak{B}$ 24'31	1°52'57	max. Earth dist.	7292 Apr 06 01:34	14° $\mathfrak{Y}$ 34'11	1.43107 AU
	7291 May 10 20:30	0° $\mathbb{I}$		superior conj	7292 Apr 12 20:28	25° $\mathfrak{Y}$ 46'18	-2°08'55
evening rise	7291 May 13 02:20	4° $\mathbb{I}$ 10'19		minimum elong	7292 Apr 12 23:13	25° $\mathfrak{Y}$ 57'51	2°08'53
asc. node	7291 May 17 07:17	11° $\mathbb{I}$ 56'20			7292 Apr 15 08:23	0° $\mathfrak{B}$	
	7291 May 29 07:52	0° $\mathfrak{E}$		evening rise	7292 Apr 24 20:38	16° $\mathfrak{B}$ 35'55	
evening max el	7291 May 29 06:05	29° $\mathbb{I}$ 55'40	18°15'43		7292 May 02 12:35	0° $\mathbb{I}$	
retrograde	7291 Jun 05 09:11	3° $\mathfrak{E}$ 30'12		asc. node	7292 May 03 04:20	1° $\mathbb{I}$ 05'48	
evening set	7291 Jun 07 17:47	3° $\mathfrak{E}$ 07'32		evening max el	7292 May 11 18:08	12° $\mathbb{I}$ 59'56	18°05'43
	7291 Jun 13 00:48	30° $\mathbb{R}$ $\mathbb{I}$		retrograde	7292 May 18 07:06	16° $\mathbb{I}$ 21'47	
inferior conj	7291 Jun 14 21:56	28° $\mathbb{I}$ 25'43	1°49'59	evening set	7292 May 20 22:59	15° $\mathbb{I}$ 48'03	
minimum elong	7291 Jun 15 01:00	28° $\mathbb{I}$ 19'06	1°48'57	inferior conj	7292 May 27 10:58	10° $\mathbb{I}$ 45'55	2°44'58
min. Earth dist.	7291 Jun 18 07:43	25° $\mathbb{I}$ 31'08	0.59190 AU	minimum elong	7292 May 27 13:50	10° $\mathbb{I}$ 38'46	2°44'16
desc. node	7291 Jun 21 12:27	23° $\mathbb{I}$ 11'44		min. Earth dist.	7292 May 30 13:30	7° $\mathbb{I}$ 42'10	0.61432 AU
morning rise	7291 Jun 22 05:09	22° $\mathbb{I}$ 46'57		morning rise	7292 Jun 03 02:37	4° $\mathbb{I}$ 46'11	
direct	7291 Jun 28 12:20	20° $\mathbb{I}$ 58'27		desc. node	7292 Jun 07 09:28	2° $\mathbb{I}$ 45'38	
morning max el	7291 Jul 12 21:21	28° $\mathbb{I}$ 47'48	27°26'58	direct	7292 Jun 09 19:39	2° $\mathbb{I}$ 27'53	
	7291 Jul 14 01:53	0° $\mathfrak{E}$		morning max el	7292 Jun 24 00:55	10° $\mathbb{I}$ 27'24	27°54'08
	7291 Aug 03 22:35	0° $\mathfrak{O}$			7292 Jul 09 06:22	0° $\mathfrak{E}$	
morning set	7291 Aug 13 02:53	17° $\mathfrak{O}$ 55'45			7292 Jul 26 03:52	0° $\mathfrak{O}$	
asc. node	7291 Aug 13 06:38	18° $\mathfrak{O}$ 15'26		morning set	7292 Jul 27 06:01	2° $\mathfrak{O}$ 13'18	
	7291 Aug 18 16:58	0° $\mathbb{M}$		asc. node	7292 Jul 30 03:36	8° $\mathfrak{O}$ 17'16	
max. Earth dist.	7291 Aug 19 16:19	2° $\mathbb{M}$ 09'03	1.31732 AU	max. Earth dist.	7292 Aug 02 01:04	14° $\mathfrak{O}$ 31'33	1.32002 AU

superior conj	7292 Aug 03 15:19	18°Ω00'52	0°44'44	superior conj	7293 Jul 18 22:26	2°Ω28'59	0°19'28
minimum elong	7292 Aug 03 13:29	17°Ω50'45	0°44'18	minimum elong	7293 Jul 18 21:30	2°Ω23'59	0°19'11
	7292 Aug 09 02:26	0°൬		evening rise	7293 Jul 25 22:12	17°Ω35'23	
evening rise	7292 Aug 10 10:30	2°൬52'42			7293 Aug 01 00:25	0°൬	
	7292 Aug 24 22:21	0°♎		evening max el	7293 Aug 17 19:03	24°൬39'33	23°10'46
desc. node	7292 Sep 03 08:33	12°♎23'02		desc. node	7293 Aug 21 05:36	27°൬36'39	
evening max el	7292 Sep 05 07:33	14°♎22'06	24°48'33		7293 Aug 25 05:03	0°♎	
retrograde	7292 Sep 19 03:57	21°♎20'45		retrograde	7293 Aug 31 05:04	1°♎22'26	
evening set	7292 Sep 24 14:06	20°♎14'44		evening set	7293 Sep 04 03:14	0°♎48'44	
min. Earth dist.	7292 Sep 29 18:44	17°♎29'33	0.56957 AU		7293 Sep 06 10:53	30°ꠗ൬	
inferior conj	7292 Oct 02 13:20	15°♎41'30	-5°26'56	min. Earth dist.	7293 Sep 11 04:04	27°൬35'12	0.55471 AU
minimum elong	7292 Oct 02 15:40	15°♎37'41	5°26'47	inferior conj	7293 Sep 12 21:04	26°൬35'31	-5°19'03
morning rise	7292 Oct 10 19:28	11°♎34'39		minimum elong	7293 Sep 12 16:17	26°൬42'30	5°18'34
direct	7292 Oct 13 08:57	11°♎16'14		morning rise	7293 Sep 21 07:33	22°൬44'47	
morning max el	7292 Oct 22 16:19	15°♎40'26	19°19'50	direct	7293 Sep 24 07:01	22°൬23'40	
asc. node	7292 Oct 26 03:03	19°♎30'57		morning max el	7293 Oct 05 03:16	27°൬27'21	20°33'46
	7292 Nov 01 21:46	0°♎			7293 Oct 07 14:12	0°♎	
morning set	7292 Nov 08 18:26	13°♎07'21		asc. node	7293 Oct 13 00:03	7°♎17'44	
				morning set	7293 Oct 24 01:10	27°♎47'11	
superior conj	7292 Nov 16 20:45	29°♎13'43	1°27'24		7293 Oct 25 02:56	0°♎	
minimum elong	7292 Nov 16 23:29	29°♎27'04	1°27'13	superior conj	7293 Oct 31 13:17	13°♎16'43	1°38'30
	7292 Nov 17 06:16	0°♎		minimum elong	7293 Oct 31 14:41	13°♎23'52	1°38'29
max. Earth dist.	7292 Nov 23 09:08	11°♎31'52	1.38205 AU	max. Earth dist.	7293 Nov 05 16:30	23°♎29'01	1.36163 AU
evening rise	7292 Nov 27 02:55	18°♎12'57			7293 Nov 09 03:03	0°♎	
desc. node	7292 Nov 30 07:37	23°♎42'40		evening rise	7293 Nov 09 14:22	0°♎52'23	
	7292 Dec 04 02:52	0°♎		desc. node	7293 Nov 17 04:39	14°♎13'24	
	7292 Dec 24 22:40	0°♎			7293 Nov 27 06:01	0°♎	
evening max el	7293 Jan 01 15:41	8°♎40'35	24°58'20	evening max el	7293 Dec 15 04:31	22°♎25'57	26°06'37
retrograde	7293 Jan 13 11:07	15°♎31'57		retrograde	7293 Dec 27 20:03	29°♎36'46	
evening set	7293 Jan 19 03:05	13°♎10'39		evening set	7294 Jan 03 00:48	27°♎04'55	
asc. node	7293 Jan 22 02:18	10°♎04'41		min. Earth dist.	7294 Jan 07 06:15	22°♎36'31	0.66816 AU
min. Earth dist.	7293 Jan 23 15:21	8°♎07'30	0.67698 AU	inferior conj	7294 Jan 08 19:21	20°♎41'36	-0°03'21
inferior conj	7293 Jan 24 17:03	6°♎43'06	0°51'41	minimum elong	7294 Jan 08 19:26	20°♎41'20	0°03'14
minimum elong	7293 Jan 24 15:50	6°♎47'06	0°51'17	transit middle	7294 Jan 08 19:26	20°♎41'20	0°03'14
morning rise	7293 Jan 30 04:50	0°♎45'42		transit begin	7294 Jan 08 16:38	20°♎50'02	
	7293 Jan 31 13:17	30°ꠗ♎		transit end	7294 Jan 08 22:14	20°♎32'40	
direct	7293 Feb 02 19:20	29°♎31'01		asc. node	7294 Jan 08 23:21	20°♎29'13	
	7293 Feb 05 03:33	0°♎		morning rise	7294 Jan 14 14:43	14°♎53'26	
morning max el	7293 Feb 10 02:12	3°♎35'00	19°37'43	direct	7294 Jan 17 18:03	13°♎57'21	
greatest brilliancy	7293 Feb 22 21:44	20°♎22'01	-0.7m	morning max el	7294 Jan 24 11:24	17°♎37'22	18°45'28
desc. node	7293 Feb 26 07:02	25°♎25'03			7294 Feb 02 23:26	0°♎	
	7293 Mar 01 07:43	0°♎		desc. node	7294 Feb 13 04:00	15°♎44'16	
morning set	7293 Mar 07 12:53	9°♎31'09		morning set	7294 Feb 15 00:36	18°♎39'07	
max. Earth dist.	7293 Mar 19 13:59	28°♎19'20	1.44555 AU		7294 Feb 22 06:24	0°♎	
	7293 Mar 20 15:21	0°♎		max. Earth dist.	7294 Mar 02 07:11	12°♎34'24	1.45340 AU
superior conj	7293 Mar 24 01:00	5°♎26'28	-2°08'36	superior conj	7294 Mar 03 09:49	14°♎18'48	-1°48'20
minimum elong	7293 Mar 23 21:30	5°♎12'23	2°08'31	minimum elong	7294 Mar 03 00:44	13°♎43'10	1°47'34
evening rise	7293 Apr 06 19:05	28°♎08'06			7294 Mar 13 08:03	0°♎	
	7293 Apr 07 21:37	0°♎		evening rise	7294 Mar 18 18:20	8°♎41'44	
asc. node	7293 Apr 20 01:22	19°♎46'32		greatest brilliancy	7294 Mar 25 17:20	19°♎53'19	-0.9m
evening max el	7293 Apr 25 07:19	26°♎20'51	18°14'40		7294 Apr 01 04:54	0°♎	
retrograde	7293 May 01 16:42	29°♎44'50		asc. node	7294 Apr 06 22:26	7°♎48'54	
evening set	7293 May 04 15:26	28°♎58'31		evening max el	7294 Apr 08 18:51	9°♎51'05	18°41'50
inferior conj	7293 May 10 15:21	23°♎37'41	3°15'15	retrograde	7294 Apr 15 09:38	13°♎29'59	
minimum elong	7293 May 10 17:00	23°♎33'05	3°14'59	evening set	7294 Apr 18 15:23	12°♎30'08	
min. Earth dist.	7293 May 13 04:36	20°♎47'14	0.63541 AU	inferior conj	7294 Apr 24 07:02	6°♎52'22	3°26'06
morning rise	7293 May 16 17:21	17°♎26'21		minimum elong	7294 Apr 24 07:15	6°♎51'43	3°26'03
direct	7293 May 23 12:04	14°♎47'11		min. Earth dist.	7294 Apr 26 05:01	4°♎31'44	0.65342 AU
desc. node	7293 May 25 06:29	14°♎57'01		morning rise	7294 Apr 29 22:28	0°♎36'08	
morning max el	7293 Jun 06 09:20	22°♎48'36	27°43'29		7294 Apr 30 16:14	30°ꠗ൬	
	7293 Jun 12 17:49	0°♎		direct	7294 May 06 12:16	27°♎48'19	
morning set	7293 Jul 02 12:26	0°♎		desc. node	7294 May 12 03:30	29°♎28'43	
max. Earth dist.	7293 Jul 11 02:12	16°♎08'12			7294 May 13 00:42	0°♎	
asc. node	7293 Jul 16 04:08	26°♎35'04	1.32733 AU	morning max el	7294 May 19 19:41	5°♎39'59	26°59'31
	7293 Jul 17 00:36	28°♎23'30			7294 Jun 07 10:12	0°♎	
	7293 Jul 17 18:41	0°♎					



morning set	7294 Jun 24 12:27	29° $\Pi$ 31'08		morning max el	7295 May 02 05:34	18° $\Upsilon$ 49'31	25°50'19
	7294 Jun 24 18:27	0° $\Theta$			7295 May 11 16:24	0° $\Theta$	
max. Earth dist.	7294 Jun 28 21:40	8° $\Theta$ 09'38	1.33938 AU		7295 May 31 11:23	0° $\Pi$	
				morning set	7295 Jun 07 08:54	12° $\Pi$ 11'27	
superior conj	7294 Jul 03 00:08	16° $\Theta$ 36'44	-0°09'07	max. Earth dist.	7295 Jun 11 03:53	19° $\Pi$ 18'00	1.35613 AU
minimum elong	7294 Jul 03 00:38	16° $\Theta$ 39'19	0°09'06				
behind sun begin	7294 Jul 02 19:56	16° $\Theta$ 14'43		superior conj	7295 Jun 16 17:54	0° $\Theta$ 17'24	-0°39'51
behind sun end	7294 Jul 03 05:19	17° $\Theta$ 03'56		minimum elong	7295 Jun 16 20:13	0° $\Theta$ 29'05	0°39'29
asc. node	7294 Jul 03 21:36	18° $\Theta$ 29'29			7295 Jun 16 14:27	0° $\Theta$	
	7294 Jul 09 07:55	0° $\Omega$		asc. node	7295 Jun 20 18:39	8° $\Theta$ 31'27	
evening rise	7294 Jul 10 08:38	2° $\Omega$ 10'03		evening rise	7295 Jun 24 15:44	16° $\Theta$ 30'55	
	7294 Jul 26 02:03	0° $\Pi$			7295 Jul 01 12:58	0° $\Omega$	
evening max el	7294 Jul 30 11:28	5° $\Pi$ 01'28	21°35'02	evening max el	7295 Jul 12 15:39	15° $\Omega$ 57'28	20°13'28
desc. node	7294 Aug 08 02:41	10° $\Pi$ 35'46		retrograde	7295 Jul 23 08:56	21° $\Omega$ 14'01	
retrograde	7294 Aug 11 19:55	11° $\Pi$ 08'51		evening set	7295 Jul 25 07:17	21° $\Omega$ 04'29	
evening set	7294 Aug 14 09:32	10° $\Pi$ 53'52		desc. node	7295 Jul 25 23:45	20° $\Omega$ 56'42	
inferior conj	7294 Aug 23 15:37	6° $\Pi$ 54'32	-4°17'14	inferior conj	7295 Aug 03 10:11	17° $\Omega$ 06'25	-2°31'46
minimum elong	7294 Aug 23 06:20	7° $\Pi$ 07'32	4°14'53	minimum elong	7295 Aug 03 03:13	17° $\Omega$ 16'41	2°29'19
min. Earth dist.	7294 Aug 23 13:14	6° $\Pi$ 57'52	0.54749 AU	min. Earth dist.	7295 Aug 05 00:10	16° $\Omega$ 10'24	0.54978 AU
morning rise	7294 Sep 01 04:11	3° $\Pi$ 03'27		morning rise	7295 Aug 11 21:56	12° $\Omega$ 54'55	
direct	7294 Sep 04 16:37	2° $\Pi$ 36'31		direct	7295 Aug 16 03:30	12° $\Omega$ 16'07	
morning max el	7294 Sep 17 02:00	8° $\Pi$ 27'30	22°07'15	morning max el	7295 Aug 29 16:25	18° $\Omega$ 52'48	23°51'50
asc. node	7294 Sep 29 21:02	25° $\Pi$ 48'46			7295 Sep 07 22:03	0° $\Pi$	
	7294 Oct 02 04:23	0° $\Omega$		asc. node	7295 Sep 16 18:03	14° $\Pi$ 53'12	
morning set	7294 Oct 08 11:16	12° $\Omega$ 35'10		morning set	7295 Sep 22 22:52	27° $\Pi$ 25'53	
					7295 Sep 24 03:45	0° $\Omega$	
superior conj	7294 Oct 15 14:28	27° $\Omega$ 44'03	1°42'03				
minimum elong	7294 Oct 15 14:30	27° $\Omega$ 44'13	1°42'06	superior conj	7295 Sep 29 21:22	12° $\Omega$ 26'33	1°39'02
	7294 Oct 16 16:20	0° $\Pi$		minimum elong	7295 Sep 29 20:15	12° $\Omega$ 20'32	1°39'01
max. Earth dist.	7294 Oct 19 06:34	5° $\Pi$ 21'54	1.34428 AU	max. Earth dist.	7295 Oct 02 05:19	17° $\Omega$ 27'28	1.33107 AU
evening rise	7294 Oct 23 17:44	14° $\Pi$ 15'02		evening rise	7295 Oct 07 09:08	28° $\Omega$ 10'23	
	7294 Nov 01 09:20	0° $\Sigma$			7295 Oct 08 07:04	0° $\Pi$	
desc. node	7294 Nov 04 01:43	4° $\Sigma$ 29'41		desc. node	7295 Oct 21 22:47	24° $\Pi$ 24'27	
	7294 Nov 22 01:24	0° $\Theta$			7295 Oct 25 13:59	0° $\Sigma$	
evening max el	7294 Nov 27 17:34	6° $\Theta$ 04'37	26°58'11	evening max el	7295 Nov 10 05:52	19° $\Sigma$ 25'24	27°25'45
retrograde	7294 Dec 10 23:29	13° $\Theta$ 23'50		retrograde	7295 Nov 23 20:32	26° $\Sigma$ 44'00	
evening set	7294 Dec 17 15:35	10° $\Theta$ 46'41		evening set	7295 Nov 30 20:51	24° $\Sigma$ 09'04	
min. Earth dist.	7294 Dec 21 14:59	6° $\Theta$ 52'45	0.65575 AU	min. Earth dist.	7295 Dec 04 15:17	20° $\Sigma$ 47'53	0.64004 AU
inferior conj	7294 Dec 23 15:41	4° $\Theta$ 33'17	-1°04'41	inferior conj	7295 Dec 07 03:30	18° $\Sigma$ 11'29	-2°10'47
minimum elong	7294 Dec 23 17:33	4° $\Theta$ 27'54	1°03'48	minimum elong	7295 Dec 07 07:30	18° $\Sigma$ 01'04	2°09'07
asc. node	7294 Dec 26 20:23	1° $\Theta$ 08'29		morning rise	7295 Dec 13 19:46	12° $\Sigma$ 49'35	
	7294 Dec 28 04:34	30° $\Sigma$		asc. node	7295 Dec 13 17:27	12° $\Sigma$ 51'59	
morning rise	7294 Dec 29 20:39	28° $\Sigma$ 56'43		direct	7295 Dec 16 06:54	12° $\Sigma$ 19'14	
direct	7295 Jan 01 14:44	28° $\Sigma$ 15'29		morning max el	7295 Dec 22 18:59	15° $\Sigma$ 42'55	17°51'02
	7295 Jan 06 02:46	0° $\Theta$			7296 Jan 01 22:33	0° $\Theta$	
morning max el	7295 Jan 08 01:57	1° $\Theta$ 42'39	18°09'43	morning set	7296 Jan 08 13:33	11° $\Theta$ 12'28	
morning set	7295 Jan 26 17:05	29° $\Theta$ 14'54		desc. node	7296 Jan 17 21:59	26° $\Theta$ 56'33	
	7295 Jan 27 04:10	0° $\approx$			7296 Jan 19 18:38	0° $\approx$	
desc. node	7295 Jan 31 01:00	6° $\approx$ 16'23					
				superior conj	7296 Jan 21 11:55	2° $\approx$ 48'15	-0°25'30
superior conj	7295 Feb 10 15:13	23° $\approx$ 09'49	-1°10'43	minimum elong	7296 Jan 21 09:02	2° $\approx$ 36'33	0°25'00
minimum elong	7295 Feb 10 07:01	22° $\approx$ 37'31	1°09'41	max. Earth dist.	7296 Jan 26 21:27	11° $\approx$ 27'49	1.44712 AU
max. Earth dist.	7295 Feb 13 02:30	27° $\approx$ 02'43	1.45392 AU	evening rise	7296 Feb 06 07:45	27° $\approx$ 43'19	
	7295 Feb 14 23:47	0° $\Sigma$			7296 Feb 07 19:26	0° $\Sigma$	
evening rise	7295 Feb 26 19:39	18° $\Sigma$ 25'14			7296 Feb 28 07:01	0° $\Upsilon$	
	7295 Mar 06 06:56	0° $\Upsilon$		evening max el	7296 Mar 05 05:23	7° $\Upsilon$ 03'55	20°25'11
greatest brilliancy	7295 Mar 11 03:59	7° $\Upsilon$ 27'02	-0.7m	asc. node	7296 Mar 10 16:36	11° $\Upsilon$ 10'59	
evening max el	7295 Mar 23 02:41	23° $\Upsilon$ 26'37	19°26'00	retrograde	7296 Mar 13 04:59	11° $\Upsilon$ 43'43	
asc. node	7295 Mar 24 19:31	25° $\Upsilon$ 01'52		evening set	7296 Mar 17 03:20	10° $\Upsilon$ 14'36	
retrograde	7295 Mar 30 06:35	27° $\Upsilon$ 31'32		inferior conj	7296 Mar 22 11:23	4° $\Upsilon$ 08'17	3°05'29
evening set	7295 Apr 02 20:05	26° $\Upsilon$ 17'21		minimum elong	7296 Mar 22 09:33	4° $\Upsilon$ 14'33	3°05'09
inferior conj	7295 Apr 08 06:39	20° $\Upsilon$ 24'20	3°21'50	min. Earth dist.	7296 Mar 23 04:09	3° $\Upsilon$ 11'04	0.67697 AU
minimum elong	7295 Apr 08 05:39	20° $\Upsilon$ 27'36	3°21'43		7296 Mar 25 15:17	30° $\Sigma$	
min. Earth dist.	7295 Apr 09 13:29	18° $\Upsilon$ 43'24	0.66741 AU	morning rise	7296 Mar 27 15:32	27° $\Sigma$ 52'57	
morning rise	7295 Apr 13 14:52	14° $\Upsilon$ 07'23		direct	7296 Apr 02 06:52	25° $\Sigma$ 22'04	
direct	7295 Apr 19 18:56	11° $\Upsilon$ 23'06			7296 Apr 11 08:39	0° $\Upsilon$	
desc. node	7295 Apr 29 00:31	15° $\Upsilon$ 49'22		morning max el	7296 Apr 13 14:26	2° $\Upsilon$ 08'16	24°25'53

desc. node	7296 Apr 14 21:30	3°♿29'10		morning max el	7297 Mar 27 00:13	15°♿34'06	22°56'17
	7296 May 04 18:09	0°♿		desc. node	7297 Apr 01 18:29	22°♿06'02	
morning set	7296 May 19 10:31	23°♿55'26			7297 Apr 07 19:12	0°♿	
	7296 May 22 20:37	0°♿			7297 Apr 27 18:07	0°♿	
max. Earth dist.	7296 May 23 01:47	0°♿23'22	1.37666 AU	morning set	7297 Apr 30 11:33	4°♿28'23	
				max. Earth dist.	7297 May 04 22:08	11°♿58'20	1.39896 AU
superior conj	7296 May 30 00:28	13°♿22'38	-1°10'57				
minimum elong	7296 May 30 04:42	13°♿43'01	1°10'20	superior conj	7297 May 12 15:43	25°♿41'52	-1°39'35
asc. node	7296 Jun 06 15:43	28°♿25'23		minimum elong	7297 May 12 21:13	26°♿07'05	1°39'00
	7296 Jun 07 10:45	0°♿			7297 May 14 23:38	0°♿	
evening rise	7296 Jun 07 17:02	0°♿31'12		evening rise	7297 May 22 09:26	14°♿02'23	
evening max el	7296 Jun 24 08:42	27°♿37'26	19°11'30	asc. node	7297 May 24 12:46	18°♿06'19	
	7296 Jun 27 05:14	0°♿			7297 May 31 03:27	0°♿	
retrograde	7296 Jul 03 09:22	2°♿04'19		evening max el	7297 Jun 07 11:58	9°♿56'53	18°30'11
evening set	7296 Jul 05 07:32	1°♿53'03		retrograde	7297 Jun 15 04:31	13°♿46'20	
	7296 Jul 10 02:50	30°♿		evening set	7297 Jun 17 08:45	13°♿28'54	
desc. node	7296 Jul 11 20:47	28°♿57'10		inferior conj	7297 Jun 24 23:45	8°♿58'36	1°05'17
inferior conj	7296 Jul 13 18:30	27°♿42'08	-0°34'38	minimum elong	7297 Jun 25 01:59	8°♿54'13	1°04'25
minimum elong	7296 Jul 13 17:00	27°♿44'39	0°34'09	min. Earth dist.	7297 Jun 28 08:29	6°♿20'45	0.57951 AU
min. Earth dist.	7296 Jul 16 13:58	25°♿49'22	0.56121 AU	desc. node	7297 Jun 28 17:50	6°♿03'28	
morning rise	7296 Jul 21 23:29	22°♿56'11		morning rise	7297 Jul 02 15:50	3°♿36'34	
direct	7296 Jul 27 01:27	21°♿56'36		direct	7297 Jul 08 13:34	2°♿07'19	
morning max el	7296 Aug 10 05:27	29°♿09'41	25°33'08	morning max el	7297 Jul 22 22:58	9°♿46'25	26°54'31
	7296 Aug 11 02:01	0°♿			7297 Aug 07 10:18	0°♿	
	7296 Aug 31 09:35	0°♿		asc. node	7297 Aug 20 12:04	24°♿08'36	
asc. node	7296 Sep 02 15:04	4°♿22'25		morning set	7297 Aug 21 20:01	26°♿55'54	
morning set	7296 Sep 06 10:21	12°♿14'51			7297 Aug 23 06:34	0°♿	
superior conj	7296 Sep 13 07:43	27°♿17'23	1°30'15	superior conj	7297 Aug 28 19:27	12°♿09'05	1°16'15
minimum elong	7296 Sep 13 05:49	27°♿06'58	1°30'04	minimum elong	7297 Aug 28 17:13	11°♿56'37	1°15'54
max. Earth dist.	7296 Sep 14 11:24	29°♿49'34	1.32228 AU	max. Earth dist.	7297 Aug 28 21:23	12°♿19'47	1.31788 AU
	7296 Sep 14 13:18	0°♿		evening rise	7297 Sep 04 15:21	27°♿03'15	
evening rise	7296 Sep 20 09:16	12°♿29'30			7297 Sep 06 01:04	0°♿	
	7296 Sep 29 10:37	0°♿			7297 Sep 22 22:46	0°♿	
desc. node	7296 Oct 07 19:50	13°♿48'53		desc. node	7297 Sep 24 16:53	2°♿29'50	
	7296 Oct 20 08:54	0°♿		evening max el	7297 Oct 04 18:23	14°♿20'06	26°47'02
evening max el	7296 Oct 22 15:07	2°♿15'09	27°23'10	retrograde	7297 Oct 18 16:03	21°♿28'49	
retrograde	7296 Nov 05 10:19	9°♿28'48		evening set	7297 Oct 25 13:02	19°♿28'28	
evening set	7296 Nov 12 13:24	7°♿05'34		min. Earth dist.	7297 Oct 29 08:23	16°♿51'48	0.60100 AU
min. Earth dist.	7296 Nov 16 05:18	4°♿12'03	0.62151 AU	inferior conj	7297 Nov 01 13:14	14°♿16'24	-4°22'17
inferior conj	7296 Nov 19 03:50	1°♿29'08	-3°18'34	minimum elong	7297 Nov 01 20:13	14°♿02'13	4°20'25
minimum elong	7296 Nov 19 09:52	1°♿15'08	3°16'25	morning rise	7297 Nov 09 05:41	9°♿34'11	
	7296 Nov 20 19:08	30°♿		direct	7297 Nov 11 11:40	9°♿15'12	
morning rise	7296 Nov 26 08:21	26°♿25'21		asc. node	7297 Nov 16 11:28	10°♿53'49	
direct	7296 Nov 28 15:15	26°♿02'16		morning max el	7297 Nov 19 00:03	12°♿57'50	18°08'30
asc. node	7296 Nov 29 14:28	26°♿06'31			7297 Nov 30 11:05	0°♿	
morning max el	7296 Dec 05 11:28	29°♿31'02	17°50'13	morning set	7297 Dec 04 17:30	7°♿55'08	
	7296 Dec 05 22:54	0°♿					
morning set	7296 Dec 21 07:45	24°♿12'09		superior conj	7297 Dec 14 08:37	25°♿43'38	0°52'01
	7296 Dec 24 13:37	0°♿		minimum elong	7297 Dec 14 12:03	25°♿59'06	0°51'37
					7297 Dec 16 18:18	0°♿	
superior conj	7297 Jan 01 09:50	13°♿40'12	0°17'17	desc. node	7297 Dec 21 16:00	8°♿27'16	
minimum elong	7297 Jan 01 11:26	13°♿47'00	0°17'08	max. Earth dist.	7297 Dec 22 00:17	9°♿02'10	1.41543 AU
desc. node	7297 Jan 03 19:00	17°♿41'24		evening rise	7297 Dec 27 02:44	17°♿26'54	
max. Earth dist.	7297 Jan 08 13:28	25°♿33'14	1.43379 AU		7298 Jan 04 02:52	0°♿	
	7297 Jan 11 07:43	0°♿			7298 Jan 25 19:24	0°♿	
evening rise	7297 Jan 15 21:36	7°♿13'16		evening max el	7298 Jan 29 19:02	4°♿22'06	22°54'37
	7297 Jan 31 02:07	0°♿		retrograde	7298 Feb 08 22:35	10°♿23'21	
evening max el	7297 Feb 16 02:33	20°♿42'03	21°36'12	asc. node	7298 Feb 12 10:42	9°♿21'17	
retrograde	7297 Feb 25 02:50	26°♿02'22		evening set	7298 Feb 13 18:30	8°♿23'49	
asc. node	7297 Feb 25 13:40	26°♿01'18		inferior conj	7298 Feb 19 03:29	1°♿59'11	2°03'40
evening set	7297 Mar 01 11:21	24°♿17'56		minimum elong	7298 Feb 19 01:15	2°♿06'54	2°02'59
inferior conj	7297 Mar 06 18:59	18°♿00'47	2°39'01	min. Earth dist.	7298 Feb 18 19:32	2°♿26'41	0.68311 AU
minimum elong	7297 Mar 06 16:44	18°♿08'38	2°38'28		7298 Feb 20 14:24	30°♿	
min. Earth dist.	7297 Mar 06 22:53	17°♿47'15	0.68213 AU	morning rise	7298 Feb 24 07:55	25°♿51'21	
morning rise	7297 Mar 11 21:58	11°♿48'35		direct	7298 Feb 28 18:53	24°♿02'27	
direct	7297 Mar 16 23:08	9°♿37'20		morning max el	7298 Mar 09 14:13	29°♿09'15	21°30'25


































































































































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desc. node	7298 Mar 19 15:27	11°♄24'13		desc. node	7299 Mar 06 12:24	1°♄11'55	
	7298 Apr 01 11:46	0°♄		morning set	7299 Mar 20 08:31	22°♄04'06	
morning set	7298 Apr 10 08:42	13°♄44'04			7299 Mar 25 10:39	0°♄	
max. Earth dist.	7298 Apr 16 22:53	24°♄23'28	1.42023 AU	max. Earth dist.	7299 Mar 30 06:38	7°♄40'15	1.43787 AU
	7298 Apr 20 07:35	0°♄					
superior conj	7298 Apr 24 10:53	7°♄04'27	-2°01'30	superior conj	7299 Apr 05 05:45	17°♄21'24	-2°11'05
minimum elong	7298 Apr 24 15:38	7°♄25'06	2°01'16	minimum elong	7299 Apr 05 06:11	17°♄23'10	2°11'06
evening rise	7298 May 05 13:08	26°♄55'09		evening rise	7299 Apr 12 18:34	0°♄	
	7298 May 07 05:42	0°♄		asc. node	7299 Apr 17 23:28	8°♄58'20	
asc. node	7298 May 11 09:48	7°♄29'18			7299 Apr 28 06:51	26°♄27'21	
evening max el	7298 May 21 21:51	22°♄47'41	18°09'03	evening max el	7299 Apr 30 14:54	0°♄	
retrograde	7298 May 28 17:47	26°♄15'18		retrograde	7299 May 05 10:46	5°♄59'52	18°07'19
evening set	7298 May 31 05:22	25°♄48'20		evening set	7299 May 11 21:04	9°♄20'51	
inferior conj	7298 Jun 07 02:11	20°♄57'46	2°16'36	inferior conj	7299 May 14 15:51	8°♄42'01	
minimum elong	7298 Jun 07 05:22	20°♄50'27	2°15'39	minimum elong	7299 May 20 22:15	3°♄32'04	3°00'27
min. Earth dist.	7298 Jun 10 09:57	17°♄56'06	0.60139 AU	min. Earth dist.	7299 May 21 00:41	3°♄25'44	2°59'58
morning rise	7298 Jun 14 02:38	15°♄08'25			7299 May 23 19:46	0°♄31'12	0.62357 AU
desc. node	7298 Jun 15 14:51	14°♄18'34		morning rise	7299 May 24 08:24	30°♄	
direct	7298 Jun 20 14:50	13°♄06'28		desc. node	7299 May 27 07:46	27°♄26'23	
morning max el	7298 Jul 04 23:09	21°♄01'55	27°43'09	direct	7299 Jun 02 11:51	24°♄58'36	
	7298 Jul 12 17:39	0°♄			7299 Jun 03 02:34	24°♄57'26	
	7298 Jul 31 09:03	0°♄		morning max el	7299 Jun 13 23:10	0°♄	
morning set	7298 Aug 06 02:07	11°♄23'55			7299 Jun 17 04:59	2°♄59'33	27°53'56
asc. node	7298 Aug 07 09:05	14°♄06'17		morning set	7299 Jul 07 04:55	0°♄	
max. Earth dist.	7298 Aug 12 07:36	24°♄47'56	1.31793 AU		7299 Jul 21 02:38	25°♄32'44	
				asc. node	7299 Jul 23 06:33	0°♄	
superior conj	7298 Aug 13 06:51	26°♄56'10	0°57'31	max. Earth dist.	7299 Jul 25 06:05	4°♄10'34	
minimum elong	7298 Aug 13 04:43	26°♄44'23	0°57'04		7299 Jul 26 14:12	7°♄02'33	1.32254 AU
	7298 Aug 14 16:05	0°♄		superior conj	7299 Jul 28 16:05	11°♄33'00	0°34'29
evening rise	7298 Aug 20 01:09	11°♄45'10		minimum elong	7299 Jul 28 14:34	11°♄24'44	0°34'06
	7298 Aug 29 05:54	0°♄		evening rise	7299 Aug 04 12:42	26°♄29'13	
desc. node	7298 Sep 11 13:56	20°♄10'09			7299 Aug 06 04:32	0°♄	
evening max el	7298 Sep 16 13:54	25°♄34'41	25°38'55		7299 Aug 23 16:05	0°♄	
	7298 Sep 22 04:38	0°♄		evening max el	7299 Aug 29 02:59	6°♄07'09	24°07'48
retrograde	7298 Sep 30 12:23	2°♄38'31		desc. node	7299 Aug 29 10:59	6°♄26'14	
evening set	7298 Oct 06 14:52	1°♄11'23		retrograde	7299 Sep 11 20:49	13°♄00'52	
	7298 Oct 08 20:42	30°♄		evening set	7299 Sep 16 16:02	12°♄10'04	
min. Earth dist.	7298 Oct 11 02:08	28°♄34'33	0.58037 AU	min. Earth dist.	7299 Sep 22 13:45	9°♄14'27	0.56248 AU
inferior conj	7298 Oct 14 04:19	26°♄24'09	-5°11'26	inferior conj	7299 Sep 24 23:11	7°♄45'50	-5°29'45
minimum elong	7298 Oct 14 09:31	26°♄14'58	5°10'40	minimum elong	7299 Sep 24 22:40	7°♄46'40	5°29'44
morning rise	7298 Oct 22 06:30	22°♄04'52		morning rise	7299 Oct 03 07:30	3°♄46'48	
direct	7298 Oct 24 15:42	21°♄47'09		direct	7299 Oct 06 00:39	3°♄27'35	
morning max el	7298 Nov 02 05:11	25°♄53'30	18°47'28	morning max el	7299 Oct 15 23:25	8°♄07'57	19°48'33
asc. node	7298 Nov 03 08:29	27°♄02'59		asc. node	7299 Oct 21 05:29	14°♄18'50	
	7298 Nov 05 19:28	0°♄			7299 Oct 30 09:28	0°♄	
morning set	7298 Nov 18 14:03	22°♄07'46		morning set	7299 Nov 02 17:56	6°♄40'32	
	7298 Nov 22 14:30	0°♄					
superior conj	7298 Nov 27 03:31	8°♄44'44	1°17'10	superior conj	7299 Nov 10 13:29	22°♄29'15	1°33'05
minimum elong	7298 Nov 27 06:50	9°♄00'26	1°16'51	minimum elong	7299 Nov 10 15:42	22°♄40'12	1°32'59
max. Earth dist.	7298 Dec 04 06:30	21°♄47'27	1.39436 AU	max. Earth dist.	7299 Nov 14 09:51	0°♄	
evening rise	7298 Dec 08 05:42	28°♄39'36		evening rise	7299 Nov 16 12:11	3°♄58'07	1.37311 AU
desc. node	7298 Dec 08 13:00	29°♄10'31		desc. node	7299 Nov 20 06:22	10°♄50'47	
	7298 Dec 09 00:44	0°♄			7299 Nov 25 10:03	19°♄47'34	
	7298 Dec 28 14:22	0°♄			7299 Dec 01 16:58	0°♄	
evening max el	7299 Jan 12 08:48	18°♄05'32	24°14'32	evening max el	7299 Dec 24 01:37	0°♄	
retrograde	7299 Jan 23 14:53	24°♄41'49		retrograde	7299 Dec 25 21:52	1°♄52'29	25°29'03
evening set	7299 Jan 28 23:15	22°♄28'05		evening set	7300 Jan 07 02:41	8°♄53'25	
asc. node	7299 Jan 30 07:44	21°♄10'42		asc. node	7300 Jan 13 00:02	6°♄27'28	
min. Earth dist.	7299 Feb 02 15:48	17°♄04'56	0.68022 AU	min. Earth dist.	7300 Jan 17 04:46	1°♄53'33	
inferior conj	7299 Feb 03 11:02	16°♄00'08	1°20'10	inferior conj	7300 Jan 17 09:25	1°♄38'47	0.67365 AU
minimum elong	7299 Feb 03 09:18	16°♄05'58	1°19'36	minimum elong	7300 Jan 18 15:50	0°♄01'03	0°29'13
morning rise	7299 Feb 08 19:26	9°♄58'12			7300 Jan 18 15:07	0°♄03'23	0°28'59
direct	7299 Feb 12 17:00	8°♄31'31		morning rise	7300 Jan 18 16:10	30°♄	
morning max el	7299 Feb 20 11:16	12°♄55'30	20°14'49	direct	7300 Jan 24 06:33	24°♄07'01	
					7300 Jan 27 16:08	23°♄00'31	

morning max el	7300 Feb 03 16:16	26° $\text{Z}$ 52'57	19°13'27	direct	7301 Jan 11 14:21	7° $\text{Z}$ 24'01	
	7300 Feb 06 11:59	0° $\approx$		morning max el	7301 Jan 18 04:01	10° $\text{Z}$ 56'56	18°28'10
greatest brilliancy	7300 Feb 17 00:25	14° $\approx$ 42'24	-0.7m		7301 Jan 31 20:18	0° $\approx$	
desc. node	7300 Feb 21 09:23	21° $\approx$ 21'34		morning set	7301 Feb 07 08:17	10° $\approx$ 18'51	
	7300 Feb 26 23:57	0° $\text{X}$		desc. node	7301 Feb 08 06:24	11° $\approx$ 46'45	
morning set	7300 Feb 27 08:58	0° $\text{X}$ 34'53			7301 Feb 19 19:23	0° $\text{X}$	
max. Earth dist.	7300 Mar 12 21:13	21° $\text{X}$ 39'16	1.44979 AU				
				superior conj	7301 Feb 23 05:27	5° $\text{X}$ 21'36	-1°34'00
superior conj	7300 Mar 16 00:37	26° $\text{X}$ 37'16	-2°02'30	minimum elong	7301 Feb 22 19:51	4° $\text{X}$ 44'02	1°33'01
minimum elong	7300 Mar 15 18:13	26° $\text{X}$ 11'55	2°02'09	max. Earth dist.	7301 Feb 23 16:11	6° $\text{X}$ 03'40	1.45460 AU
	7300 Mar 18 03:34	0° $\text{Y}$			7301 Mar 10 21:46	0° $\text{Y}$	
evening rise	7300 Mar 30 12:12	20° $\text{Y}$ 04'45		evening rise	7301 Mar 11 01:35	0° $\text{Y}$ 15'03	
	7300 Apr 05 12:23	0° $\text{Z}$		greatest brilliancy	7301 Mar 20 14:02	15° $\text{Y}$ 15'52	-0.8m
asc. node	7300 Apr 15 03:54	14° $\text{Z}$ 52'37			7301 Mar 30 18:48	0° $\text{Z}$	
evening max el	7300 Apr 18 23:37	19° $\text{Z}$ 52'23	18°24'09	asc. node	7301 Apr 02 00:56	2° $\text{Z}$ 35'13	
retrograde	7300 Apr 25 10:07	22° $\text{Z}$ 53'49		evening max el	7301 Apr 02 09:49	2° $\text{Z}$ 58'07	18°58'39
evening set	7300 Apr 28 11:53	22° $\text{Z}$ 01'44		retrograde	7301 Apr 09 05:08	6° $\text{Z}$ 46'38	
inferior conj	7300 May 04 07:52	16° $\text{Z}$ 33'37	3°21'55	evening set	7301 Apr 12 14:10	5° $\text{Z}$ 40'33	
minimum elong	7300 May 04 08:54	16° $\text{Z}$ 30'37	3°21'46	inferior conj	7301 Apr 18 03:16	29° $\text{Y}$ 55'54	3°25'57
min. Earth dist.	7300 May 06 14:44	13° $\text{Z}$ 54'18	0.64357 AU	minimum elong	7301 Apr 18 02:56	29° $\text{Y}$ 56'58	3°25'53
morning rise	7300 May 10 05:00	10° $\text{Z}$ 19'51			7301 Apr 18 01:59	30° $\text{R}$ $\text{Y}$	
direct	7300 May 16 22:31	7° $\text{Z}$ 35'22		min. Earth dist.	7301 Apr 19 18:37	27° $\text{Y}$ 51'40	0.65989 AU
desc. node	7300 May 20 08:52	8° $\text{Z}$ 12'35		morning rise	7301 Apr 23 15:15	23° $\text{Y}$ 39'09	
morning max el	7300 May 30 14:17	15° $\text{Z}$ 33'36	27°28'24	direct	7301 Apr 30 01:20	20° $\text{Y}$ 51'47	
	7300 Jun 11 10:11	0° $\text{II}$		desc. node	7301 May 07 05:53	23° $\text{Y}$ 34'22	
	7300 Jun 29 22:29	0° $\text{D}$		morning max el	7301 May 13 00:41	28° $\text{Y}$ 33'55	26°32'45
morning set	7300 Jul 04 18:59	9° $\text{D}$ 14'43			7301 May 14 09:44	0° $\text{Z}$	
max. Earth dist.	7300 Jul 09 13:29	18° $\text{D}$ 53'36	1.33187 AU		7301 Jun 05 05:09	0° $\text{II}$	
asc. node	7300 Jul 12 03:06	24° $\text{D}$ 17'02		morning set	7301 Jun 17 23:56	22° $\text{II}$ 20'52	
					7301 Jun 21 23:04	0° $\text{D}$	
superior conj	7300 Jul 12 21:12	25° $\text{D}$ 53'15	0°07'43	max. Earth dist.	7301 Jun 22 02:35	0° $\text{D}$ 17'20	1.34596 AU
minimum elong	7300 Jul 12 20:49	25° $\text{D}$ 51'12	0°07'33				
behind sun begin	7300 Jul 12 15:59	25° $\text{D}$ 25'25		superior conj	7301 Jun 26 19:55	9° $\text{D}$ 50'26	-0°21'57
behind sun end	7300 Jul 13 01:40	26° $\text{D}$ 17'01		minimum elong	7301 Jun 26 21:08	9° $\text{D}$ 56'46	0°21'47
	7300 Jul 14 19:18	0° $\text{Q}$		asc. node	7301 Jun 29 00:09	14° $\text{D}$ 21'50	
evening rise	7300 Jul 20 00:08	11° $\text{Q}$ 09'13		evening rise	7301 Jul 04 09:28	25° $\text{D}$ 39'10	
	7300 Jul 29 15:48	0° $\text{P}$			7301 Jul 06 12:09	0° $\text{Q}$	
evening max el	7300 Aug 10 15:41	16° $\text{P}$ 22'42	22°28'59	evening max el	7301 Jul 23 12:31	26° $\text{Q}$ 56'16	20°58'08
desc. node	7300 Aug 16 08:04	20° $\text{P}$ 46'57			7301 Jul 27 04:33	0° $\text{P}$	
retrograde	7300 Aug 23 16:31	22° $\text{P}$ 52'14		desc. node	7301 Aug 03 05:07	2° $\text{P}$ 40'52	
evening set	7300 Aug 26 23:33	22° $\text{P}$ 28'24		retrograde	7301 Aug 04 05:10	2° $\text{P}$ 43'20	
min. Earth dist.	7300 Sep 03 22:36	18° $\text{P}$ 58'48	0.55059 AU	evening set	7301 Aug 06 10:12	2° $\text{P}$ 31'44	
inferior conj	7300 Sep 05 00:09	18° $\text{P}$ 22'40	-4°59'31		7301 Aug 13 03:02	30° $\text{R}$ $\text{Q}$	
minimum elong	7300 Sep 04 16:43	18° $\text{P}$ 33'12	4°58'15	inferior conj	7301 Aug 15 16:52	28° $\text{Q}$ 34'28	-3°36'17
morning rise	7300 Sep 13 11:43	14° $\text{P}$ 34'09		minimum elong	7301 Aug 15 07:48	28° $\text{Q}$ 47'17	3°33'31
direct	7300 Sep 16 16:37	14° $\text{P}$ 10'50		min. Earth dist.	7301 Aug 16 07:59	28° $\text{Q}$ 13'04	0.54728 AU
morning max el	7300 Sep 28 04:50	19° $\text{P}$ 34'00	21°11'24	morning rise	7301 Aug 24 05:42	24° $\text{Q}$ 37'33	
	7300 Oct 06 13:53	0° $\text{A}$		direct	7301 Aug 28 00:53	24° $\text{Q}$ 06'38	
asc. node	7300 Oct 08 02:30	2° $\text{A}$ 25'59			7301 Sep 09 15:58	0° $\text{P}$	
morning set	7300 Oct 18 02:24	21° $\text{A}$ 24'48		morning max el	7301 Sep 09 23:19	0° $\text{P}$ 16'57	22°51'06
	7300 Oct 22 04:47	0° $\text{M}$		asc. node	7301 Sep 24 23:33	21° $\text{P}$ 12'32	
					7301 Sep 29 12:57	0° $\text{A}$	
superior conj	7300 Oct 25 10:08	6° $\text{M}$ 43'42	1°40'51	morning set	7301 Oct 02 13:23	6° $\text{A}$ 14'51	
minimum elong	7300 Oct 25 10:56	6° $\text{M}$ 47'53	1°40'53				
max. Earth dist.	7300 Oct 29 22:20	15° $\text{M}$ 52'23	1.35387 AU	superior conj	7301 Oct 09 14:05	21° $\text{A}$ 18'29	1°41'31
evening rise	7300 Nov 03 01:09	23° $\text{M}$ 50'02		minimum elong	7301 Oct 09 13:36	21° $\text{A}$ 15'52	1°41'33
	7300 Nov 06 09:28	0° $\text{J}$		max. Earth dist.	7301 Oct 12 16:18	27° $\text{A}$ 50'22	1.33818 AU
desc. node	7300 Nov 12 07:06	10° $\text{J}$ 12'58			7301 Oct 13 17:19	0° $\text{M}$	
	7300 Nov 25 08:07	0° $\text{Z}$		evening rise	7301 Oct 17 10:05	7° $\text{M}$ 27'30	
evening max el	7300 Dec 08 11:04	15° $\text{Z}$ 36'40	26°31'00		7301 Oct 29 23:01	0° $\text{J}$	
retrograde	7300 Dec 21 09:09	22° $\text{Z}$ 51'21		desc. node	7301 Oct 30 04:09	0° $\text{J}$ 20'51	
evening set	7300 Dec 27 19:02	20° $\text{Z}$ 16'42		evening max el	7301 Nov 20 23:53	29° $\text{J}$ 08'32	27°13'03
min. Earth dist.	7300 Dec 31 21:57	16° $\text{Z}$ 03'01	0.66339 AU		7301 Nov 21 21:56	0° $\text{Z}$	
inferior conj	7301 Jan 02 15:53	13° $\text{Z}$ 57'08	-0°28'37	retrograde	7301 Dec 04 09:48	6° $\text{Z}$ 27'58	
minimum elong	7301 Jan 02 16:40	13° $\text{Z}$ 54'46	0°28'13	evening set	7301 Dec 11 06:06	3° $\text{Z}$ 50'28	
asc. node	7301 Jan 04 01:48	12° $\text{Z}$ 17'04		min. Earth dist.	7301 Dec 15 03:10	0° $\text{Z}$ 11'07	0.64956 AU
morning rise	7301 Jan 08 15:06	8° $\text{Z}$ 13'29			7301 Dec 15 07:17	30° $\text{R}$ $\text{J}$	

inferior conj	7301 Dec 17 08:54	27° $\text{♁}$ 43'18	-1°32'16	minimum elong	7302 Nov 30 21:09	11° $\text{♁}$ 01'24	2°37'40
minimum elong	7301 Dec 17 11:39	27° $\text{♁}$ 35'43	1°31'03	morning rise	7302 Dec 07 13:41	5° $\text{♁}$ 59'20	
asc. node	7301 Dec 21 22:52	23° $\text{♁}$ 18'06		asc. node	7302 Dec 08 19:55	5° $\text{♁}$ 38'33	
morning rise	7301 Dec 23 18:32	22° $\text{♁}$ 12'50		direct	7302 Dec 09 22:33	5° $\text{♁}$ 32'37	
direct	7301 Dec 26 09:25	21° $\text{♁}$ 36'40		morning max el	7302 Dec 16 13:18	8° $\text{♁}$ 57'30	17°48'26
morning max el	7302 Jan 01 20:01	25° $\text{♁}$ 00'54	17°59'39		7302 Dec 30 13:12	0° $\text{♁}$	
	7302 Jan 05 23:58	0° $\text{♁}$		morning set	7303 Jan 01 19:45	3° $\text{♁}$ 57'23	
morning set	7302 Jan 19 13:13	21° $\text{♁}$ 30'59		desc. node	7303 Jan 13 00:23	23° $\text{♁}$ 05'12	
	7302 Jan 24 16:32	0° $\text{♁}$					
desc. node	7302 Jan 26 03:24	2° $\text{♁}$ 22'33		superior conj	7303 Jan 13 22:23	24° $\text{♁}$ 36'22	-0°06'38
				minimum elong	7303 Jan 13 21:42	24° $\text{♁}$ 33'32	0°06'26
superior conj	7302 Feb 02 15:21	14° $\text{♁}$ 27'09	-0°51'46	behind sun begin	7303 Jan 13 12:59	23° $\text{♁}$ 57'28	
minimum elong	7302 Feb 02 09:13	14° $\text{♁}$ 02'48	0°50'53	behind sun end	7303 Jan 14 06:24	25° $\text{♁}$ 09'31	
max. Earth dist.	7302 Feb 06 11:58	20° $\text{♁}$ 33'26	1.45190 AU		7303 Jan 17 05:22	0° $\text{♁}$	
	7302 Feb 12 12:56	0° $\text{♁}$		max. Earth dist.	7303 Jan 20 05:29	4° $\text{♁}$ 50'35	1.44212 AU
evening rise	7302 Feb 18 19:43	9° $\text{♁}$ 43'23		evening rise	7303 Jan 29 06:36	19° $\text{♁}$ 01'42	
	7302 Mar 04 03:31	0° $\text{♁}$			7303 Feb 05 11:46	0° $\text{♁}$	
greatest brilliancy	7302 Mar 04 20:50	1° $\text{♁}$ 04'03	-0.6m		7303 Feb 27 11:20	0° $\text{♁}$	
evening max el	7302 Mar 16 15:27	16° $\text{♁}$ 33'44	19°49'28	evening max el	7303 Feb 27 15:42	0° $\text{♁}$ 11'11	20°54'10
asc. node	7302 Mar 19 22:00	19° $\text{♁}$ 22'26		asc. node	7303 Mar 06 19:04	4° $\text{♁}$ 59'59	
retrograde	7302 Mar 24 03:05	20° $\text{♁}$ 52'55		retrograde	7303 Mar 08 01:32	5° $\text{♁}$ 08'22	
evening set	7302 Mar 27 20:11	19° $\text{♁}$ 32'23		evening set	7303 Mar 12 03:57	3° $\text{♁}$ 32'56	
inferior conj	7302 Apr 02 05:21	13° $\text{♁}$ 33'08	3°16'15		7303 Mar 15 12:30	30° $\text{♁}$	
minimum elong	7302 Apr 02 03:57	13° $\text{♁}$ 37'50	3°16'03	inferior conj	7303 Mar 17 11:36	27° $\text{♁}$ 21'34	2°55'24
min. Earth dist.	7302 Apr 03 05:58	12° $\text{♁}$ 10'47	0.67196 AU	minimum elong	7303 Mar 17 09:31	27° $\text{♁}$ 28'43	2°54'59
morning rise	7302 Apr 07 11:27	7° $\text{♁}$ 16'32		min. Earth dist.	7303 Mar 17 22:47	26° $\text{♁}$ 42'56	0.67966 AU
direct	7302 Apr 13 10:13	4° $\text{♁}$ 37'12		morning rise	7303 Mar 22 14:53	21° $\text{♁}$ 07'07	
desc. node	7302 Apr 24 02:54	10° $\text{♁}$ 31'30		direct	7303 Mar 28 00:12	18° $\text{♁}$ 43'56	
morning max el	7302 Apr 25 10:17	11° $\text{♁}$ 48'34	25°15'46	morning max el	7303 Apr 07 19:13	25° $\text{♁}$ 10'32	23°47'45
	7302 May 09 23:53	0° $\text{♁}$		desc. node	7303 Apr 10 23:52	28° $\text{♁}$ 37'55	
	7302 May 28 22:12	0° $\text{♁}$			7303 Apr 12 04:00	0° $\text{♁}$	
morning set	7302 May 31 13:01	4° $\text{♁}$ 38'33			7303 May 03 11:44	0° $\text{♁}$	
max. Earth dist.	7302 Jun 04 04:49	11° $\text{♁}$ 21'04	1.36445 AU	morning set	7303 May 13 04:49	15° $\text{♁}$ 53'56	
				max. Earth dist.	7303 May 17 00:37	22° $\text{♁}$ 32'49	1.38607 AU
superior conj	7302 Jun 10 09:17	23° $\text{♁}$ 16'12	-0°53'08		7303 May 21 03:54	0° $\text{♁}$	
minimum elong	7302 Jun 10 12:25	23° $\text{♁}$ 31'48	0°52'39	superior conj	7303 May 24 09:49	6° $\text{♁}$ 02'40	-1°23'37
	7302 Jun 13 17:53	0° $\text{♁}$		minimum elong	7303 May 24 14:44	6° $\text{♁}$ 25'51	1°22'59
asc. node	7302 Jun 15 21:10	4° $\text{♁}$ 20'19		evening rise	7303 Jun 02 12:17	23° $\text{♁}$ 39'58	
evening rise	7302 Jun 18 14:23	9° $\text{♁}$ 51'37		asc. node	7303 Jun 02 18:12	24° $\text{♁}$ 08'48	
	7302 Jun 29 12:30	0° $\text{♁}$			7303 Jun 05 18:51	0° $\text{♁}$	
evening max el	7302 Jul 05 22:09	8° $\text{♁}$ 09'36	19°44'36	evening max el	7303 Jun 18 19:58	20° $\text{♁}$ 06'55	18°51'26
retrograde	7302 Jul 15 21:58	13° $\text{♁}$ 04'39		retrograde	7303 Jun 27 05:41	24° $\text{♁}$ 15'48	
evening set	7302 Jul 17 18:41	12° $\text{♁}$ 55'08		evening set	7303 Jun 29 05:59	24° $\text{♁}$ 02'27	
desc. node	7302 Jul 21 02:10	11° $\text{♁}$ 55'35		inferior conj	7303 Jul 07 08:34	19° $\text{♁}$ 44'05	0°10'56
inferior conj	7302 Jul 26 15:49	8° $\text{♁}$ 52'45	-1°41'28	minimum elong	7303 Jul 07 09:00	19° $\text{♁}$ 43'18	0°10'41
minimum elong	7302 Jul 26 11:10	8° $\text{♁}$ 59'59	1°39'46	transit middle	7303 Jul 07 09:00	19° $\text{♁}$ 43'18	0°10'41
min. Earth dist.	7302 Jul 28 20:04	7° $\text{♁}$ 31'51	0.55355 AU	transit begin	7303 Jul 07 06:13	19° $\text{♁}$ 48'18	
morning rise	7302 Aug 04 01:29	4° $\text{♁}$ 27'19		transit end	7303 Jul 07 11:46	19° $\text{♁}$ 38'19	
direct	7302 Aug 08 15:09	3° $\text{♁}$ 41'06		desc. node	7303 Jul 07 23:12	19° $\text{♁}$ 17'42	
morning max el	7302 Aug 22 12:27	10° $\text{♁}$ 35'04	24°36'24	min. Earth dist.	7303 Jul 10 11:54	17° $\text{♁}$ 29'40	0.56834 AU
	7302 Sep 06 02:53	0° $\text{♁}$		morning rise	7303 Jul 15 08:36	14° $\text{♁}$ 41'56	
asc. node	7302 Sep 11 20:34	10° $\text{♁}$ 28'00		direct	7303 Jul 20 19:29	13° $\text{♁}$ 30'14	
morning set	7302 Sep 17 01:08	21° $\text{♁}$ 05'07		morning max el	7303 Aug 04 02:47	20° $\text{♁}$ 56'28	26°11'05
	7302 Sep 21 03:59	0° $\text{♁}$			7303 Aug 11 23:20	0° $\text{♁}$	
superior conj	7302 Sep 23 22:43	6° $\text{♁}$ 05'11	1°35'59	asc. node	7303 Aug 29 17:34	0° $\text{♁}$ 04'34	
minimum elong	7302 Sep 23 21:13	5° $\text{♁}$ 57'03	1°35'54		7303 Aug 29 16:40	0° $\text{♁}$	
max. Earth dist.	7302 Sep 25 18:17	10° $\text{♁}$ 02'01	1.32673 AU	morning set	7303 Sep 01 11:59	5° $\text{♁}$ 50'32	
evening rise	7302 Oct 01 05:31	21° $\text{♁}$ 33'27					
	7302 Oct 05 11:56	0° $\text{♁}$		superior conj	7303 Sep 08 09:51	20° $\text{♁}$ 56'41	1°24'56
desc. node	7302 Oct 17 01:13	20° $\text{♁}$ 03'50		minimum elong	7303 Sep 08 07:45	20° $\text{♁}$ 45'05	1°24'39
	7302 Oct 23 20:58	0° $\text{♁}$		max. Earth dist.	7303 Sep 09 02:11	22° $\text{♁}$ 26'55	1.31979 AU
evening max el	7302 Nov 03 10:57	12° $\text{♁}$ 16'55	27°28'32		7303 Sep 12 12:58	0° $\text{♁}$	
retrograde	7302 Nov 17 04:05	19° $\text{♁}$ 34'34		evening rise	7303 Sep 15 08:26	5° $\text{♁}$ 59'13	
evening set	7302 Nov 24 06:28	17° $\text{♁}$ 02'58			7303 Sep 28 01:39	0° $\text{♁}$	
min. Earth dist.	7302 Nov 27 23:12	13° $\text{♁}$ 54'39	0.63246 AU	desc. node	7303 Oct 03 22:16	9° $\text{♁}$ 11'14	
inferior conj	7302 Nov 30 16:13	11° $\text{♁}$ 13'38	-2°39'37	evening max el	7303 Oct 16 18:01	24° $\text{♁}$ 48'58	27°12'06

	7303 Oct 23 14:30	0°♊			7304 Sep 21 18:32	0°♍	
retrograde	7303 Oct 30 14:56	2°♊00'57		evening max el	7304 Sep 27 18:25	6°♍33'51	26°21'48
	7303 Nov 06 07:24	30°♋♌		retrograde	7304 Oct 11 16:40	13°♍39'50	
evening set	7303 Nov 06 16:26	29°♌46'14		evening set	7304 Oct 18 07:22	11°♍52'56	
min. Earth dist.	7303 Nov 10 08:46	27°♌01'21	0.61285 AU	min. Earth dist.	7304 Oct 22 07:46	9°♍18'22	0.59207 AU
inferior conj	7303 Nov 13 10:39	24°♌19'34	-3°46'39	inferior conj	7304 Oct 25 12:42	6°♍51'46	-4°45'45
minimum elong	7303 Nov 13 17:19	24°♌04'57	3°44'30	minimum elong	7304 Oct 25 19:22	6°♍38'59	4°44'18
morning rise	7303 Nov 20 20:23	19°♌24'31		morning rise	7304 Nov 02 09:36	2°♍18'52	
direct	7303 Nov 23 02:17	19°♌03'39		direct	7304 Nov 04 16:28	2°♍00'40	
asc. node	7303 Nov 25 16:57	19°♌32'58		asc. node	7304 Nov 11 13:57	4°♍56'51	
morning max el	7303 Nov 30 04:34	22°♌37'40	17°55'31	morning max el	7304 Nov 12 14:22	5°♍52'18	18°22'25
	7303 Dec 05 22:26	0°♊			7304 Nov 27 20:28	0°♊	
morning set	7303 Dec 15 21:17	17°♊17'34		morning set	7304 Nov 28 12:13	1°♊15'11	
	7303 Dec 22 21:35	0°♋					
superior conj	7303 Dec 26 07:17	5°♋59'50	0°33'09	superior conj	7304 Dec 07 15:19	18°♊29'44	1°03'50
minimum elong	7303 Dec 26 09:59	6°♋11'32	0°32'50	minimum elong	7304 Dec 07 18:53	18°♊46'08	1°03'28
desc. node	7303 Dec 30 21:23	13°♋50'46		max. Earth dist.	7304 Dec 14 01:56	0°♋	
max. Earth dist.	7304 Jan 02 19:05	18°♋40'45	1.42648 AU	desc. node	7304 Dec 15 04:10	1°♋53'11	1.40675 AU
evening rise	7304 Jan 09 01:40	28°♋47'26		evening rise	7304 Dec 16 18:25	4°♋36'04	
	7304 Jan 09 20:06	0°♌			7304 Dec 19 15:54	9°♋26'08	
	7304 Jan 30 03:59	0°♌		evening max el	7305 Jan 01 20:26	0°♌	
evening max el	7304 Feb 10 10:47	13°♌50'12	22°09'01		7305 Jan 23 02:02	27°♌32'13	23°28'46
retrograde	7304 Feb 19 22:37	19°♌28'05		retrograde	7305 Jan 25 17:53	0°♌	
asc. node	7304 Feb 21 16:07	19°♌12'40		evening set	7305 Feb 02 16:53	3°♌48'33	
evening set	7304 Feb 24 11:46	17°♌37'26		asc. node	7305 Feb 07 18:04	1°♌42'50	
inferior conj	7304 Feb 29 19:48	11°♌16'49	2°25'02		7305 Feb 07 13:10	1°♌53'00	
minimum elong	7304 Feb 29 17:30	11°♌24'50	2°24'25	min. Earth dist.	7305 Feb 09 11:55	30°♌♍	
min. Earth dist.	7304 Feb 29 18:39	11°♌20'50	0.68309 AU	inferior conj	7305 Feb 12 15:22	26°♌00'16	0.68246 AU
morning rise	7304 Mar 05 23:04	5°♌06'11		minimum elong	7305 Feb 13 04:07	25°♌16'30	1°46'10
direct	7304 Mar 10 18:15	3°♌04'00		morning rise	7305 Feb 13 02:03	25°♌23'38	1°45'30
morning max el	7304 Mar 20 06:09	8°♌39'00	22°18'42	direct	7305 Feb 18 09:58	19°♌11'07	
desc. node	7304 Mar 27 20:49	17°♌33'41		morning max el	7305 Feb 22 15:12	17°♌31'40	
	7304 Apr 05 21:19	0°♍			7305 Mar 02 22:51	22°♌18'22	20°56'37
morning set	7304 Apr 22 17:57	25°♍53'09		desc. node	7305 Mar 09 12:37	0°♌	
	7304 Apr 25 06:11	0°♎			7305 Mar 14 17:48	7°♌05'25	
max. Earth dist.	7304 Apr 27 21:56	4°♎26'13	1.40834 AU	morning set	7305 Mar 30 04:18	0°♍	
				max. Earth dist.	7305 Apr 02 04:14	4°♍39'16	
superior conj	7304 May 05 17:07	17°♎59'11	-1°50'01		7305 Apr 10 02:04	17°♍15'54	1.42841 AU
minimum elong	7304 May 05 22:39	18°♎23'57	1°49'34	superior conj	7305 Apr 17 02:19	28°♍54'25	-2°07'27
	7304 May 12 06:52	0°♏		minimum elong	7305 Apr 17 05:44	29°♍08'51	2°07'22
evening rise	7304 May 15 23:45	6°♏55'36			7305 Apr 17 17:46	0°♎	
asc. node	7304 May 19 15:14	13°♏42'38		evening rise	7305 Apr 28 20:36	19°♎28'20	
	7304 May 29 16:59	0°♐			7305 May 04 19:13	0°♏	
evening max el	7304 Jun 01 02:35	2°♐41'16	18°18'49	asc. node	7305 May 06 12:16	2°♏55'41	
retrograde	7304 Jun 08 08:42	6°♐19'02		evening max el	7305 May 15 14:10	15°♏42'03	18°05'58
evening set	7304 Jun 10 16:12	5°♐57'46		retrograde	7305 May 22 04:37	19°♏05'03	
inferior conj	7304 Jun 17 23:04	1°♐18'53	1°39'08	evening set	7305 May 24 19:23	18°♏33'07	
minimum elong	7304 Jun 18 02:00	1°♐12'43	1°38'08	inferior conj	7305 May 31 09:31	13°♏33'49	2°38'19
	7304 Jun 19 12:20	30°♑♒		minimum elong	7305 May 31 12:31	13°♏26'31	2°37'33
min. Earth dist.	7304 Jun 21 08:58	28°♒27'59	0.58864 AU	min. Earth dist.	7305 Jun 03 13:34	10°♒29'58	0.61097 AU
desc. node	7304 Jun 23 20:12	26°♒39'22		morning rise	7305 Jun 07 03:24	7°♒36'27	
morning rise	7304 Jun 25 08:39	25°♒44'15		desc. node	7305 Jun 10 17:13	5°♒50'48	
direct	7304 Jul 01 13:40	24°♒00'46		direct	7305 Jun 13 19:21	5°♒22'15	
	7304 Jul 14 00:44	0°♓		morning max el	7305 Jun 28 01:36	13°♒20'52	27°52'33
morning max el	7304 Jul 15 22:48	1°♓47'26	27°19'42		7305 Jul 11 08:37	0°♓	
	7304 Aug 05 06:27	0°♑			7305 Jul 28 15:42	0°♑	
morning set	7304 Aug 15 20:21	20°♑26'40		morning set	7305 Jul 31 00:20	4°♑47'07	
asc. node	7304 Aug 15 14:33	19°♑56'14		asc. node	7305 Aug 02 11:33	9°♑57'06	
	7304 Aug 20 06:48	0°♒		max. Earth dist.	7305 Aug 05 22:07	17°♑22'39	1.31936 AU
superior conj	7304 Aug 22 21:40	5°♒47'18	1°08'52	superior conj	7305 Aug 07 08:20	20°♑30'24	0°48'14
minimum elong	7304 Aug 22 19:25	5°♒34'47	1°08'27	minimum elong	7305 Aug 07 06:24	20°♑19'46	0°47'48
max. Earth dist.	7304 Aug 22 12:46	4°♒57'58	1.31735 AU		7305 Aug 11 15:51	0°♒	
evening rise	7304 Aug 29 16:23	20°♒37'42		evening rise	7305 Aug 14 03:10	5°♒21'14	
	7304 Sep 03 05:39	0°♓			7305 Aug 27 01:18	0°♓	
desc. node	7304 Sep 19 19:19	27°♓29'01		desc. node	7305 Sep 06 16:22	14°♓36'36	

evening max el	7305 Sep 09 10:43	17°♄27'55	25°02'07		7306 Aug 24 09:43	0°♄	
retrograde	7305 Sep 23 07:44	24°♄28'07		desc. node	7306 Aug 24 13:25	0°♄07'25	
evening set	7305 Sep 28 22:37	23°♄16'32		retrograde	7306 Sep 04 10:58	4°♄34'22	
min. Earth dist.	7305 Oct 03 22:05	20°♄34'09	0.57228 AU	evening set	7306 Sep 08 14:33	3°♄56'39	
inferior conj	7305 Oct 06 19:10	18°♄39'48	-5°24'03	min. Earth dist.	7306 Sep 15 07:55	0°♄48'07	0.55650 AU
minimum elong	7305 Oct 06 22:24	18°♄34'26	5°23'48		7306 Sep 16 16:35	30°♄	
morning rise	7305 Oct 15 00:26	14°♄29'58		inferior conj	7306 Sep 17 05:40	29°♄40'36	-5°23'39
direct	7305 Oct 17 12:43	14°♄11'48		minimum elong	7306 Sep 17 01:59	29°♄46'04	5°23'21
morning max el	7305 Oct 26 15:09	18°♄30'53	19°10'47	morning rise	7306 Sep 25 15:41	25°♄48'09	
asc. node	7305 Oct 29 10:58	21°♄35'45		direct	7306 Sep 28 13:20	25°♄27'39	
	7305 Nov 04 04:14	0°♄			7306 Oct 08 17:05	0°♄	
morning set	7305 Nov 12 12:15	15°♄37'17		morning max el	7306 Oct 09 04:04	0°♄25'07	20°21'24
	7305 Nov 19 18:23	0°♄		asc. node	7306 Oct 16 07:59	9°♄14'47	
				morning set	7306 Oct 27 18:18	0°♄15'14	
					7306 Oct 27 15:20	0°♄	
superior conj	7305 Nov 20 17:14	1°♄50'50	1°24'58				
minimum elong	7305 Nov 20 20:09	2°♄04'56	1°24'46				
max. Earth dist.	7305 Nov 27 09:52	14°♄23'02	1.38520 AU	superior conj	7306 Nov 04 08:11	15°♄49'19	1°37'19
evening rise	7305 Dec 01 04:20	21°♄03'50		minimum elong	7306 Nov 04 09:48	15°♄57'30	1°37'17
desc. node	7305 Dec 03 15:28	25°♄17'04		max. Earth dist.	7306 Nov 09 16:30	26°♄22'15	1.36448 AU
	7305 Dec 06 11:26	0°♄			7306 Nov 11 14:26	0°♄	
	7305 Dec 26 21:07	0°♄		evening rise	7306 Nov 13 13:07	3°♄36'08	
evening max el	7306 Jan 05 15:16	11°♄17'21	24°47'15	desc. node	7306 Nov 20 12:30	15°♄49'32	
retrograde	7306 Jan 17 07:23	18°♄05'17			7306 Nov 29 11:01	0°♄	
evening set	7306 Jan 22 21:23	15°♄45'45		evening max el	7306 Dec 19 04:06	25°♄03'04	25°57'25
asc. node	7306 Jan 25 10:12	13°♄10'03			7306 Dec 25 05:57	0°♄	
min. Earth dist.	7306 Jan 27 10:41	10°♄37'30	0.67791 AU	retrograde	7306 Dec 31 17:10	2°♄12'03	
inferior conj	7306 Jan 28 10:45	9°♄17'53	0°59'28		7307 Jan 06 10:52	30°♄	
minimum elong	7306 Jan 28 09:23	9°♄22'25	0°58'59	evening set	7307 Jan 06 19:59	29°♄41'35	
morning rise	7306 Feb 02 21:35	3°♄19'21		min. Earth dist.	7307 Jan 11 02:25	25°♄07'53	0.66965 AU
direct	7306 Feb 06 13:52	2°♄01'42		asc. node	7307 Jan 12 07:16	23°♄37'39	
morning max el	7306 Feb 13 23:29	6°♄10'30	19°46'53	inferior conj	7307 Jan 12 13:47	23°♄17'11	0°05'28
greatest brilliancy	7306 Feb 26 20:11	22°♄56'45	-0.6m	minimum elong	7307 Jan 12 13:38	23°♄17'39	0°05'29
desc. node	7306 Mar 01 14:49	27°♄03'32		transit middle	7307 Jan 12 13:38	23°♄17'39	0°05'29
	7306 Mar 03 13:52	0°♄		transit begin	7307 Jan 12 10:58	23°♄26'01	
morning set	7306 Mar 12 01:17	12°♄55'41		transit end	7307 Jan 12 16:19	23°♄09'17	
	7306 Mar 22 23:40	0°♄		morning rise	7307 Jan 18 07:52	17°♄27'23	
max. Earth dist.	7306 Mar 23 13:24	0°♄54'31	1.44374 AU	direct	7307 Jan 21 12:43	16°♄28'47	
				morning max el	7307 Jan 28 07:41	20°♄11'49	18°52'13
					7307 Feb 05 02:26	0°♄	
superior conj	7306 Mar 28 10:32	8°♄43'53	-2°09'54	desc. node	7307 Feb 16 11:49	17°♄20'26	
minimum elong	7306 Mar 28 08:06	8°♄34'04	2°09'52	morning set	7307 Feb 19 09:31	21°♄52'26	
	7306 Apr 10 06:04	0°♄			7307 Feb 24 14:20	0°♄	
evening rise	7306 Apr 10 22:19	1°♄08'58		max. Earth dist.	7307 Mar 06 05:51	15°♄05'23	1.45268 AU
asc. node	7306 Apr 23 09:20	21°♄41'14					
evening max el	7306 Apr 29 03:23	29°♄00'50	18°12'11				
	7306 Apr 30 04:52	0°♄		superior conj	7307 Mar 07 21:34	17°♄41'22	-1°52'40
retrograde	7306 May 05 12:47	2°♄23'45		minimum elong	7307 Mar 07 12:59	17°♄07'39	1°52'02
evening set	7306 May 08 10:27	1°♄39'28			7307 Mar 15 16:13	0°♄	
	7306 May 10 20:48	30°♄		evening rise	7307 Mar 23 01:08	11°♄51'07	
inferior conj	7306 May 14 11:55	26°♄21'25	3°12'00		7307 Apr 03 08:21	0°♄	
minimum elong	7306 May 14 13:47	26°♄16'17	3°11'40	asc. node	7307 Apr 10 06:23	9°♄50'05	
min. Earth dist.	7306 May 17 03:24	23°♄27'35	0.63241 AU	evening max el	7307 Apr 12 15:21	12°♄30'10	18°36'42
morning rise	7306 May 20 15:46	20°♄11'10		retrograde	7307 Apr 19 04:48	16°♄05'58	
direct	7306 May 27 10:41	17°♄34'16		evening set	7307 Apr 22 09:29	15°♄08'12	
desc. node	7306 May 28 14:14	17°♄38'25		inferior conj	7307 Apr 28 02:09	9°♄32'59	3°25'28
morning max el	7306 Jun 10 09:34	25°♄36'31	27°47'18	minimum elong	7307 Apr 28 02:35	9°♄31'42	3°25'24
	7306 Jun 14 10:27	0°♄		min. Earth dist.	7307 Apr 30 02:29	7°♄07'02	0.65101 AU
	7306 Jul 04 21:02	0°♄		morning rise	7307 May 03 18:58	3°♄17'12	
morning set	7306 Jul 14 21:44	18°♄45'46		direct	7307 May 10 09:56	0°♄29'43	
max. Earth dist.	7306 Jul 20 02:14	29°♄29'08	1.32594 AU	desc. node	7307 May 15 11:15	1°♄50'39	
asc. node	7306 Jul 20 08:35	0°♄02'55		morning max el	7307 May 23 19:43	8°♄23'44	27°07'49
	7306 Jul 20 08:02	0°♄			7307 Jun 09 14:46	0°♄	
					7307 Jun 27 05:47	0°♄	
superior conj	7306 Jul 22 16:04	5°♄00'46	0°23'32	morning set	7307 Jun 28 09:43	2°♄14'02	
minimum elong	7306 Jul 22 14:58	4°♄54'50	0°23'14	max. Earth dist.	7307 Jul 02 21:12	11°♄07'21	1.33726 AU
evening rise	7306 Jul 29 14:55	20°♄04'11					
	7306 Aug 03 10:26	0°♄		superior conj	7307 Jul 06 18:46	19°♄12'07	-0°04'37
evening max el	7306 Aug 21 22:20	27°♄47'54	23°25'34	minimum elong	7307 Jul 06 19:01	19°♄13'24	0°04'38

behind sun begin	7307 Jul 06 13:38	18°  45'03		superior conj	7308 Jun 19 13:55	2°  57'19	-0°35'06
behind sun end	7307 Jul 07 00:25	19°  41'48		minimum elong	7308 Jun 19 15:56	3°  07'34	0°34'47
asc. node	7307 Jul 07 05:37	20°  09'16		asc. node	7308 Jun 23 02:38	10°  02'00	
	7307 Jul 11 20:43	0°  0		evening rise	7308 Jun 27 09:25	19°  03'48	
evening rise	7307 Jul 14 01:41	4°  040'25			7308 Jul 02 21:15	0°  0	
	7307 Jul 27 21:30	0°  0		evening max el	7308 Jul 15 15:49	18°  057'16	20°24'27
evening max el	7307 Aug 03 13:36	8°  07'37	21°48'41	retrograde	7308 Jul 26 15:10	24°  021'43	
desc. node	7307 Aug 11 10:27	13°  029'14		desc. node	7308 Jul 28 07:30	24°  014'38	
retrograde	7307 Aug 16 02:54	14°  021'17		evening set	7308 Jul 28 14:47	24°  011'52	
evening set	7307 Aug 18 20:27	14°  004'31		inferior conj	7308 Aug 06 19:09	20°  014'36	-2°49'21
min. Earth dist.	7307 Aug 27 17:07	10°  015'53	0.54797 AU	minimum elong	7308 Aug 06 11:29	20°  025'45	2°46'44
inferior conj	7307 Aug 28 01:35	10°  004'01	-4°30'03	min. Earth dist.	7308 Aug 08 03:29	19°  027'34	0.54880 AU
minimum elong	7307 Aug 27 16:33	10°  016'40	4°27'56	morning rise	7308 Aug 15 07:20	16°  007'34	
morning rise	7307 Sep 05 13:55	6°  014'09		direct	7308 Aug 19 10:11	15°  0231'03	
direct	7307 Sep 09 00:17	5°  048'18		morning max el	7308 Sep 01 19:38	22°  001'02	23°36'05
morning max el	7307 Sep 21 04:27	11°  032'13	21°52'16		7308 Sep 08 19:03	0°  0	
asc. node	7307 Oct 03 05:01	27°  040'25		asc. node	7308 Sep 19 02:02	16°  040'35	
	7307 Oct 04 12:40	0°  0		morning set	7308 Sep 25 15:34	29°  053'39	
morning set	7307 Oct 12 04:04	15°  002'51			7308 Sep 25 16:46	0°  0	
superior conj	7307 Oct 19 08:18	0°  013'59	1°41'57	superior conj	7308 Oct 02 14:31	14°  054'44	1°39'53
minimum elong	7307 Oct 19 08:32	0°  015'12	1°42'00	minimum elong	7308 Oct 02 13:33	14°  049'35	1°39'52
	7307 Oct 19 05:39	0°  0		max. Earth dist.	7308 Oct 05 03:07	20°  019'18	1.33278 AU
max. Earth dist.	7307 Oct 23 05:28	8°  015'16	1.34665 AU		7308 Oct 09 19:20	0°  0	
evening rise	7307 Oct 27 14:26	16°  053'39		evening rise	7308 Oct 10 04:15	0°  0	
	7307 Nov 03 18:26	0°  0		desc. node	7308 Oct 24 06:34	26°  007'05	
desc. node	7307 Nov 07 09:33	6°  008'36			7308 Oct 26 18:04	0°  0	
	7307 Nov 23 20:23	0°  0		evening max el	7308 Nov 13 05:50	22°  008'18	27°23'22
evening max el	7307 Dec 01 17:17	8°  043'55	26°51'51	retrograde	7308 Nov 26 19:18	29°  026'55	
retrograde	7307 Dec 14 21:26	16°  030'213		evening set	7308 Dec 03 18:46	26°  001'07	
evening set	7307 Dec 21 11:56	13°  025'39		min. Earth dist.	7308 Dec 07 13:52	23°  025'19	0.64266 AU
min. Earth dist.	7307 Dec 25 12:16	9°  026'30	0.65784 AU	inferior conj	7308 Dec 10 00:24	20°  005'58	-2°00'34
inferior conj	7307 Dec 27 11:09	7°  010'24	-0°55'00	minimum elong	7308 Dec 10 04:04	20°  004'15	1°58'59
minimum elong	7307 Dec 27 12:44	7°  005'49	0°54'15	asc. node	7308 Dec 16 01:21	15°  004'217	
asc. node	7307 Dec 30 04:18	4°  011'05		morning rise	7308 Dec 16 14:54	15°  002'639	
morning rise	7308 Jan 02 14:34	1°  031'48		direct	7308 Dec 19 02:58	14°  004'51	
direct	7308 Jan 05 09:56	0°  0348'31		morning max el	7308 Dec 25 14:22	18°  001'817	17°52'40
morning max el	7308 Jan 11 21:32	4°  016'55	18°13'56		7309 Jan 03 04:33	0°  0	
	7308 Jan 29 12:11	0°  0		morning set	7309 Jan 11 14:05	14°  001'07	
morning set	7308 Jan 30 21:29	2°  0014'42		desc. node	7309 Jan 20 05:49	28°  0030'08	
desc. node	7308 Feb 03 08:50	7°  0050'58			7309 Jan 21 03:42	0°  0	
superior conj	7308 Feb 15 02:10	26°  0028'48	-1°17'11	superior conj	7309 Jan 24 19:36	5°  0057'24	-0°32'22
minimum elong	7308 Feb 14 17:24	25°  0054'22	1°16'07	minimum elong	7309 Jan 24 15:52	5°  0042'21	0°31'46
max. Earth dist.	7308 Feb 17 01:05	29°  0032'51	1.45436 AU	max. Earth dist.	7309 Jan 29 20:28	14°  000'18	1.44860 AU
	7308 Feb 17 08:00	0°  0			7309 Feb 09 02:48	0°  0	
evening rise	7308 Mar 02 05:20	21°  000'40'41		evening rise	7309 Feb 09 18:30	1°  000'17	
	7308 Mar 07 13:28	0°  0			7309 Mar 01 06:48	0°  0	
greatest brilliancy	7308 Mar 13 21:18	9°  0045'26	-0.7m	evening max el	7309 Mar 09 03:21	9°  0042'12	20°15'31
evening max el	7308 Mar 25 23:53	26°  0005'05	19°18'24	asc. node	7309 Mar 14 00:29	13°  0031'04	
asc. node	7308 Mar 27 03:26	27°  0011'12		retrograde	7309 Mar 16 23:36	14°  0016'21	
	7308 Apr 01 02:02	0°  0		evening set	7309 Mar 20 20:36	12°  0049'23	
retrograde	7308 Apr 02 01:16	0°  0005'15		inferior conj	7309 Mar 26 04:52	6°  0044'48	3°08'38
	7308 Apr 03 00:11	30°  000'0		minimum elong	7309 Mar 26 03:07	6°  0050'42	3°08'21
evening set	7308 Apr 05 13:36	28°  0053'10		min. Earth dist.	7309 Mar 26 23:35	5°  0041'09	0.67580 AU
inferior conj	7308 Apr 11 00:44	23°  0002'21	3°23'16	morning rise	7309 Mar 31 09:26	0°  0	
minimum elong	7308 Apr 10 23:55	23°  0005'03	3°23'11		7309 Mar 31 22:56	30°  000'0	
min. Earth dist.	7308 Apr 12 09:47	21°  0015'10	0.66564 AU	direct	7309 Apr 06 02:43	27°  000'55'58	
morning rise	7308 Apr 16 09:51	16°  0045'25			7309 Apr 11 22:37	0°  0	
direct	7308 Apr 22 15:38	13°  0059'57		morning max el	7309 Apr 17 14:42	4°  0048'53	24°39'08
desc. node	7308 May 01 08:16	17°  0056'39		desc. node	7309 Apr 18 05:17	5°  0026'18	
morning max el	7308 May 05 05:39	21°  0030'42	26°01'51		7309 May 06 23:34	0°  0	
	7308 May 12 14:38	0°  0		morning set	7309 May 23 13:17	26°  000'54'54	
	7308 Jun 01 20:01	0°  0			7309 May 25 07:00	0°  0	
morning set	7308 Jun 10 08:30	15°  0001'17		max. Earth dist.	7309 May 27 04:10	3°  0024'09	1.37343 AU
max. Earth dist.	7308 Jun 14 05:07	22°  0018'57	1.35336 AU				
	7308 Jun 18 02:46	0°  0		superior conj	7309 Jun 02 22:23	16°  0008'38	-1°06'17



minimum elong	7309 Jun 03 02:21	16° $\Pi$ 27'51	1°05'43	max. Earth dist.	7310 May 09 00:10	14° $\text{C}$ 52'27	1.39561 AU
asc. node	7309 Jun 09 23:39	0° $\text{C}$ 07'27					
	7309 Jun 09 22:10	0° $\text{C}$		superior conj	7310 May 16 16:09	28° $\text{C}$ 35'05	-1°35'33
evening rise	7309 Jun 11 11:46	3° $\text{C}$ 08'00		minimum elong	7310 May 16 21:33	29° $\text{C}$ 00'02	1°34'58
	7309 Jun 27 18:54	0° $\Omega$			7310 May 17 10:30	0° $\Pi$	
evening max el	7309 Jun 28 06:59	0° $\Omega$ 30'32	19°19'23	evening rise	7310 May 26 05:42	16° $\Pi$ 44'01	
retrograde	7309 Jul 07 13:25	5° $\Omega$ 04'27		asc. node	7310 May 27 20:40	19° $\Pi$ 50'33	
evening set	7309 Jul 09 10:57	4° $\Omega$ 53'47			7310 Jun 02 08:50	0° $\text{C}$	
desc. node	7309 Jul 15 04:32	2° $\Omega$ 32'45		evening max el	7310 Jun 11 08:55	12° $\text{C}$ 44'29	18°35'02
inferior conj	7309 Jul 18 00:44	0° $\Omega$ 45'12	-0°51'48	retrograde	7310 Jun 19 05:40	16° $\text{C}$ 38'38	
minimum elong	7309 Jul 17 22:26	0° $\Omega$ 48'58	0°50'59	evening set	7310 Jun 21 08:44	16° $\text{C}$ 22'25	
	7309 Jul 19 04:07	30° $\text{R}$ $\text{C}$		inferior conj	7310 Jun 29 02:44	11° $\text{C}$ 55'15	0°51'51
min. Earth dist.	7309 Jul 20 16:41	29° $\text{C}$ 00'31	0.55899 AU	minimum elong	7310 Jun 29 04:35	11° $\text{C}$ 51'41	0°51'06
morning rise	7309 Jul 26 07:09	26° $\text{C}$ 04'47		desc. node	7310 Jul 02 01:34	9° $\text{C}$ 39'21	
direct	7309 Jul 31 05:53	25° $\text{C}$ 09'04		min. Earth dist.	7310 Jul 02 10:32	9° $\text{C}$ 22'48	0.57648 AU
	7309 Aug 11 18:04	0° $\Omega$		morning rise	7310 Jul 06 20:58	6° $\text{C}$ 37'59	
morning max el	7309 Aug 14 08:30	2° $\Omega$ 17'19	25°18'59	direct	7310 Jul 12 15:56	5° $\text{C}$ 13'27	
	7309 Sep 02 19:05	0° $\text{M}$		morning max el	7310 Jul 27 01:10	12° $\text{C}$ 49'44	26°44'13
asc. node	7309 Sep 05 23:03	6° $\text{M}$ 06'28			7310 Aug 09 13:31	0° $\Omega$	
morning set	7309 Sep 10 03:10	14° $\text{M}$ 43'03		asc. node	7310 Aug 23 20:02	25° $\Omega$ 50'15	
				morning set	7310 Aug 25 13:11	29° $\Omega$ 25'26	
					7310 Aug 25 19:42	0° $\text{M}$	
superior conj	7309 Sep 17 00:27	29° $\text{M}$ 44'30	1°31'56				
minimum elong	7309 Sep 16 22:39	29° $\text{M}$ 34'37	1°31'46				
	7309 Sep 17 03:16	0° $\Omega$		superior conj	7310 Sep 01 12:06	14° $\text{M}$ 36'23	1°18'42
max. Earth dist.	7309 Sep 18 08:14	2° $\Omega$ 38'50	1.32330 AU	minimum elong	7310 Sep 01 09:53	14° $\text{M}$ 24'05	1°18'22
evening rise	7309 Sep 24 03:13	15° $\Omega$ 00'26		max. Earth dist.	7310 Sep 01 17:44	15° $\text{M}$ 07'38	1.31821 AU
	7309 Oct 01 19:53	0° $\text{M}$		evening rise	7310 Sep 08 08:33	29° $\text{M}$ 32'16	
desc. node	7309 Oct 11 03:35	15° $\text{M}$ 36'32			7310 Sep 08 13:49	0° $\Omega$	
	7309 Oct 21 20:26	0° $\text{X}$			7310 Sep 25 00:24	0° $\text{M}$	
evening max el	7309 Oct 26 15:34	5° $\text{X}$ 02'51	27°25'34	desc. node	7310 Sep 28 00:39	4° $\text{M}$ 25'04	
retrograde	7309 Nov 09 10:12	12° $\text{X}$ 17'31		evening max el	7310 Oct 08 19:50	17° $\text{M}$ 15'05	26°54'36
evening set	7309 Nov 16 13:26	9° $\text{X}$ 51'42		retrograde	7310 Oct 22 17:27	24° $\text{M}$ 24'59	
min. Earth dist.	7309 Nov 20 05:22	6° $\text{X}$ 54'44	0.62445 AU	evening set	7310 Oct 29 15:56	22° $\text{M}$ 20'26	
inferior conj	7309 Nov 23 02:37	4° $\text{X}$ 11'51	-3°08'26	min. Earth dist.	7310 Nov 02 10:06	19° $\text{M}$ 42'13	0.60405 AU
minimum elong	7309 Nov 23 08:23	3° $\text{X}$ 58'14	3°06'18	inferior conj	7310 Nov 05 14:29	17° $\text{M}$ 04'30	-4°13'18
	7309 Nov 28 06:44	30° $\text{R}$ $\text{M}$		minimum elong	7310 Nov 05 21:28	16° $\text{M}$ 50'02	4°11'21
morning rise	7309 Nov 30 05:19	29° $\text{M}$ 05'21		morning rise	7310 Nov 13 05:16	12° $\text{M}$ 19'00	
direct	7309 Dec 02 12:40	28° $\text{M}$ 41'24		direct	7310 Nov 15 11:02	11° $\text{M}$ 59'41	
asc. node	7309 Dec 02 22:24	28° $\text{M}$ 42'10		asc. node	7310 Nov 19 19:26	13° $\text{M}$ 16'13	
	7309 Dec 06 15:43	0° $\text{X}$		morning max el	7310 Nov 22 20:36	15° $\text{M}$ 39'49	18°04'31
morning max el	7309 Dec 09 07:09	2° $\text{X}$ 08'44	17°49'08		7310 Dec 02 19:26	0° $\text{X}$	
morning set	7309 Dec 25 05:25	26° $\text{X}$ 52'34		morning set	7310 Dec 08 13:15	10° $\text{X}$ 30'32	
	7309 Dec 26 23:36	0° $\text{C}$					
				superior conj	7310 Dec 18 08:58	28° $\text{X}$ 32'14	0°47'20
superior conj	7310 Jan 05 13:34	16° $\text{C}$ 38'06	0°11'16	minimum elong	7310 Dec 18 12:17	28° $\text{X}$ 47'00	0°46'57
minimum elong	7310 Jan 05 14:39	16° $\text{C}$ 42'39	0°11'11		7310 Dec 19 04:45	0° $\text{C}$	
behind sun begin	7310 Jan 05 08:11	16° $\text{C}$ 15'23		desc. node	7310 Dec 24 23:48	10° $\text{C}$ 00'38	
behind sun end	7310 Jan 05 21:06	17° $\text{C}$ 09'53		max. Earth dist.	7310 Dec 26 00:27	11° $\text{C}$ 44'12	1.41839 AU
desc. node	7310 Jan 07 02:47	19° $\text{C}$ 14'25		evening rise	7310 Dec 31 09:21	20° $\text{C}$ 32'06	
max. Earth dist.	7310 Jan 12 12:58	28° $\text{C}$ 09'20	1.43612 AU		7311 Jan 06 09:59	0° $\approx$	
	7310 Jan 13 16:26	0° $\approx$			7311 Jan 27 14:54	0° $\text{H}$	
evening rise	7310 Jan 20 07:01	10° $\approx$ 25'46		evening max el	7311 Feb 02 18:19	6° $\text{H}$ 59'42	22°42'40
	7310 Feb 02 06:49	0° $\text{H}$		retrograde	7311 Feb 12 17:53	12° $\text{H}$ 55'14	
evening max el	7310 Feb 20 01:13	23° $\text{H}$ 19'48	21°25'03	asc. node	7311 Feb 15 18:36	12° $\text{H}$ 08'32	
retrograde	7310 Feb 28 21:41	28° $\text{H}$ 34'15		evening set	7311 Feb 17 11:57	10° $\text{H}$ 58'02	
asc. node	7310 Feb 28 21:32	28° $\text{H}$ 34'15		inferior conj	7311 Feb 22 20:39	4° $\text{H}$ 34'14	2°09'35
evening set	7310 Mar 05 04:35	26° $\text{H}$ 52'05		minimum elong	7311 Feb 22 18:23	4° $\text{H}$ 42'06	2°08'55
inferior conj	7310 Mar 10 12:09	20° $\text{H}$ 36'15	2°43'37	min. Earth dist.	7311 Feb 22 14:27	4° $\text{H}$ 55'46	0.68323 AU
minimum elong	7310 Mar 10 09:56	20° $\text{H}$ 43'57	2°43'06		7311 Feb 26 09:50	30° $\text{R}$ $\approx$	
min. Earth dist.	7310 Mar 10 17:52	20° $\text{H}$ 16'21	0.68159 AU	morning rise	7311 Feb 28 00:42	28° $\approx$ 25'33	
morning rise	7310 Mar 15 15:07	14° $\text{H}$ 23'25		direct	7311 Mar 04 13:44	26° $\approx$ 33'11	
direct	7310 Mar 20 18:21	12° $\text{H}$ 09'03			7311 Mar 11 15:29	0° $\text{H}$	
morning max el	7310 Mar 31 00:11	18° $\text{H}$ 13'49	23°09'37	morning max el	7311 Mar 13 13:18	1° $\text{H}$ 47'18	21°42'36
desc. node	7310 Apr 05 02:15	23° $\text{H}$ 55'42		desc. node	7311 Mar 22 23:14	13° $\text{H}$ 08'33	
	7310 Apr 09 20:18	0° $\text{Y}$			7311 Apr 03 17:54	0° $\text{Y}$	
	7310 Apr 30 02:15	0° $\text{C}$		morning set	7311 Apr 14 19:27	17° $\text{Y}$ 05'43	
morning set	7310 May 04 18:17	7° $\text{C}$ 39'14		max. Earth dist.	7311 Apr 20 23:41	27° $\text{Y}$ 08'15	1.41725 AU

	7311 Apr 22 16:52	0°♄		superior conj	7312 Apr 08 13:14	20°♄33'42	-2°10'41
				minimum elong	7312 Apr 08 14:34	20°♄39'14	2°10'42
superior conj	7311 Apr 28 14:34	10°♄06'34	-1°58'51		7312 Apr 14 03:49	0°♄	
minimum elong	7311 Apr 28 19:38	10°♄28'44	1°58'33	evening rise	7312 Apr 21 00:44	11°♄53'52	
evening rise	7311 May 09 11:31	29°♄42'47		asc. node	7312 Apr 30 14:45	28°♄18'48	
	7311 May 09 15:16	0°♄			7312 May 01 16:18	0°♄	
asc. node	7311 May 14 17:42	9°♄16'27		evening max el	7312 May 08 06:48	8°♄41'03	18°06'26
evening max el	7311 May 25 18:05	25°♄31'18	18°11'00	retrograde	7312 May 14 17:49	12°♄02'00	
retrograde	7311 Jun 01 16:18	29°♄00'59		evening set	7312 May 17 11:36	11°♄24'58	
evening set	7311 Jun 04 02:50	28°♄35'36		inferior conj	7312 May 23 19:52	6°♄17'46	2°55'23
inferior conj	7311 Jun 11 02:09	23°♄48'11	2°07'39	minimum elong	7312 May 23 22:28	6°♄11'05	2°54'48
minimum elong	7311 Jun 11 05:20	23°♄41'01	2°06'39	min. Earth dist.	7312 May 26 19:15	3°♄15'28	0.62035 AU
min. Earth dist.	7311 Jun 14 10:52	20°♄48'25	0.59806 AU	morning rise	7312 May 30 07:29	0°♄14'06	
morning rise	7311 Jun 18 04:58	18°♄02'15			7312 May 30 15:34	30°♄	
desc. node	7311 Jun 18 22:36	17°♄37'11		desc. node	7312 Jun 04 19:37	27°♄53'31	
direct	7311 Jun 24 15:36	16°♄04'51		direct	7312 Jun 06 01:52	27°♄48'38	
morning max el	7311 Jul 09 00:15	23°♄58'32	27°38'15		7312 Jun 13 00:36	0°♄	
	7311 Jul 14 10:51	0°♄		morning max el	7312 Jun 20 05:18	5°♄49'59	27°54'49
	7311 Aug 02 19:07	0°♄			7312 Jul 08 10:32	0°♄	
morning set	7311 Aug 09 19:56	13°♄55'47		morning set	7312 Jul 23 21:27	28°♄08'18	
asc. node	7311 Aug 10 17:02	15°♄46'28			7312 Jul 24 19:14	0°♄	
max. Earth dist.	7311 Aug 16 04:07	27°♄36'39	1.31762 AU	asc. node	7312 Jul 27 14:03	5°♄50'21	
				max. Earth dist.	7312 Jul 29 11:36	9°♄54'51	1.32155 AU
superior conj	7311 Aug 16 23:41	29°♄24'46	1°00'39				
minimum elong	7311 Aug 16 21:30	29°♄12'42	1°00'13	superior conj	7312 Jul 31 09:24	14°♄04'00	0°38'15
	7311 Aug 17 06:03	0°♄		minimum elong	7312 Jul 31 07:45	13°♄55'01	0°37'51
evening rise	7311 Aug 23 17:57	14°♄13'36		evening rise	7312 Aug 07 05:25	28°♄58'22	
	7311 Aug 31 14:29	0°♄			7312 Aug 07 16:59	0°♄	
desc. node	7311 Sep 14 21:42	22°♄16'05			7312 Aug 24 10:28	0°♄	
evening max el	7311 Sep 20 16:40	28°♄37'41	25°50'56	desc. node	7312 Aug 31 18:46	8°♄47'08	
	7311 Sep 22 04:57	0°♄		evening max el	7312 Sep 01 06:33	9°♄15'52	24°22'18
retrograde	7311 Oct 04 15:22	5°♄42'15		retrograde	7312 Sep 15 01:27	16°♄11'19	
evening set	7311 Oct 10 21:20	4°♄09'53		evening set	7312 Sep 20 02:06	15°♄15'21	
min. Earth dist.	7311 Oct 15 05:16	1°♄34'09	0.58330 AU	min. Earth dist.	7312 Sep 25 17:31	12°♄23'41	0.56488 AU
	7311 Oct 17 09:56	30°♄		inferior conj	7312 Sep 28 06:26	10°♄48'07	-5°29'47
inferior conj	7311 Oct 18 08:30	29°♄19'03	-5°05'35	minimum elong	7312 Sep 28 06:59	10°♄47'15	5°29'45
minimum elong	7311 Oct 18 14:13	29°♄08'43	5°04'39	morning rise	7312 Oct 06 14:03	6°♄46'24	
morning rise	7311 Oct 26 09:26	24°♄56'12		direct	7312 Oct 09 05:52	6°♄27'29	
direct	7311 Oct 28 17:48	24°♄38'28		morning max el	7312 Oct 18 23:05	11°♄02'01	19°38'01
morning max el	7311 Nov 06 03:04	28°♄40'55	18°40'19	asc. node	7312 Oct 23 13:29	16°♄20'55	
asc. node	7311 Nov 06 16:28	29°♄14'05			7312 Oct 31 19:27	0°♄	
	7311 Nov 07 09:48	0°♄		morning set	7312 Nov 05 11:30	9°♄10'19	
morning set	7311 Nov 22 08:31	24°♄39'54					
	7311 Nov 25 02:14	0°♄		superior conj	7312 Nov 13 09:17	25°♄04'46	1°31'12
superior conj	7311 Dec 01 01:16	11°♄25'57	1°13'55	minimum elong	7312 Nov 13 11:41	25°♄16'38	1°31'05
minimum elong	7311 Dec 01 04:41	11°♄42'02	1°13'37		7312 Nov 15 21:48	0°♄	
max. Earth dist.	7311 Dec 08 07:17	24°♄36'25	1.39760 AU	max. Earth dist.	7312 Nov 19 12:53	6°♄51'48	1.37623 AU
	7311 Dec 11 10:16	0°♄		evening rise	7312 Nov 23 06:40	13°♄39'14	
desc. node	7311 Dec 11 20:49	0°♄44'45		desc. node	7312 Nov 27 17:52	21°♄23'02	
evening rise	7311 Dec 12 09:04	1°♄36'26			7312 Dec 03 00:16	0°♄	
	7311 Dec 30 17:42	0°♄			7312 Dec 24 16:05	0°♄	
evening max el	7312 Jan 16 08:28	20°♄43'13	24°02'45	evening max el	7312 Dec 28 21:36	4°♄30'02	25°18'32
retrograde	7312 Jan 27 10:44	27°♄14'34		retrograde	7313 Jan 09 23:12	11°♄27'39	
evening set	7312 Feb 01 17:10	25°♄02'58		evening set	7313 Jan 15 18:40	9°♄03'19	
asc. node	7312 Feb 02 15:40	24°♄11'08		asc. node	7313 Jan 19 12:43	5°♄01'30	
min. Earth dist.	7312 Feb 06 10:58	19°♄34'41	0.68096 AU	min. Earth dist.	7313 Jan 20 05:04	4°♄09'35	0.67491 AU
inferior conj	7312 Feb 07 04:29	18°♄35'19	1°27'19	inferior conj	7313 Jan 21 09:50	2°♄36'27	0°37'26
minimum elong	7312 Feb 07 02:39	18°♄41'33	1°26'41	minimum elong	7313 Jan 21 08:55	2°♄39'25	0°37'08
morning rise	7312 Feb 12 12:08	12°♄32'21			7313 Jan 23 11:44	30°♄	
direct	7312 Feb 16 11:41	11°♄02'19		morning rise	7313 Jan 26 23:28	26°♄41'11	
morning max el	7312 Feb 24 09:10	15°♄31'49	20°25'09	direct	7313 Jan 30 10:46	25°♄31'51	
	7312 Mar 06 20:05	0°♄		morning max el	7313 Feb 06 13:03	29°♄27'55	19°21'35
desc. node	7312 Mar 08 20:14	2°♄52'35			7313 Feb 07 01:42	0°♄	
morning set	7312 Mar 23 21:22	25°♄30'39		greatest brilliancy	7313 Feb 19 14:51	16°♄48'02	-0.7m
	7312 Mar 26 18:34	0°♄		desc. node	7313 Feb 23 17:14	22°♄59'28	
max. Earth dist.	7312 Apr 02 06:24	10°♄17'56	1.43562 AU	morning set	7313 Feb 28 07:02	0°♄	
					7313 Mar 02 20:09	3°♄55'31	

max. Earth dist.	7313 Mar 15 20:27	24° $\text{H}$ 13'07	1.44848 AU	superior conj	7314 Feb 26 17:13	8° $\text{H}$ 44'11	-1°39'27
				minimum elong	7314 Feb 26 07:39	8° $\text{H}$ 06'42	1°38'31
superior conj	7313 Mar 19 11:20	29° $\text{H}$ 57'37	-2°05'06	max. Earth dist.	7314 Feb 26 15:03	8° $\text{H}$ 35'40	1.45434 AU
minimum elong	7313 Mar 19 05:55	29° $\text{H}$ 36'02	2°04'52		7314 Mar 12 05:20	0° $\text{Y}$	
	7313 Mar 19 11:56	0° $\text{Y}$		evening rise	7314 Mar 14 09:47	3° $\text{Y}$ 28'17	
evening rise	7313 Apr 02 16:55	23° $\text{Y}$ 09'21		greatest brilliancy	7314 Mar 23 02:42	17° $\text{Y}$ 17'32	-0.8m
	7313 Apr 06 19:36	0° $\text{B}$			7314 Mar 31 14:42	0° $\text{B}$	
asc. node	7313 Apr 17 11:48	16° $\text{B}$ 49'45		asc. node	7314 Apr 04 08:52	4° $\text{B}$ 40'02	
evening max el	7313 Apr 21 19:49	22° $\text{B}$ 05'00	18°20'28	evening max el	7314 Apr 05 06:32	5° $\text{B}$ 37'15	18°52'22
retrograde	7313 Apr 28 05:42	25° $\text{B}$ 31'34		retrograde	7314 Apr 12 00:06	9° $\text{B}$ 22'13	
evening set	7313 May 01 06:26	24° $\text{B}$ 41'28		evening set	7314 Apr 15 07:58	8° $\text{B}$ 18'19	
inferior conj	7313 May 07 03:43	19° $\text{B}$ 15'50	3°19'52	inferior conj	7314 Apr 20 21:53	2° $\text{B}$ 35'57	3°26'13
minimum elong	7313 May 07 04:58	19° $\text{B}$ 12'15	3°19'41	minimum elong	7314 Apr 20 21:44	2° $\text{B}$ 36'24	3°26'11
min. Earth dist.	7313 May 09 12:49	16° $\text{B}$ 32'22	0.64078 AU	min. Earth dist.	7314 Apr 22 15:31	0° $\text{B}$ 25'51	0.65773 AU
morning rise	7313 May 13 02:29	13° $\text{B}$ 02'50			7314 Apr 22 23:59	30° $\text{R}$ $\text{Y}$	
direct	7313 May 19 20:32	10° $\text{B}$ 20'03		morning rise	7314 Apr 26 11:01	26° $\text{Y}$ 19'15	
desc. node	7313 May 22 16:40	10° $\text{B}$ 45'30		direct	7314 May 02 22:27	23° $\text{Y}$ 31'33	
morning max el	7313 Jun 02 14:20	18° $\text{B}$ 19'30	27°34'23	desc. node	7314 May 09 13:40	25° $\text{Y}$ 50'19	
	7313 Jun 12 09:46	0° $\text{II}$			7314 May 14 17:19	0° $\text{B}$	
	7313 Jul 01 08:24	0° $\text{B}$		morning max el	7314 May 16 00:49	1° $\text{B}$ 17'21	26°42'34
morning set	7313 Jul 07 15:11	11° $\text{B}$ 54'41			7314 Jun 06 11:39	0° $\text{II}$	
max. Earth dist.	7313 Jul 12 12:19	21° $\text{B}$ 50'26	1.33017 AU	morning set	7314 Jun 20 22:02	25° $\text{II}$ 06'43	
asc. node	7313 Jul 14 11:03	25° $\text{B}$ 56'40			7314 Jun 23 10:54	0° $\text{B}$	
				max. Earth dist.	7314 Jun 25 02:57	3° $\text{B}$ 17'35	1.34358 AU
superior conj	7313 Jul 15 15:13	28° $\text{B}$ 26'54	0°12'00	superior conj	7314 Jun 29 15:00	12° $\text{B}$ 27'36	-0°17'19
minimum elong	7313 Jul 15 14:38	28° $\text{B}$ 23'44	0°11'47	minimum elong	7314 Jun 29 15:57	12° $\text{B}$ 32'34	0°17'13
behind sun begin	7313 Jul 15 10:57	28° $\text{B}$ 04'03		asc. node	7314 Jul 01 08:04	16° $\text{B}$ 01'50	
behind sun end	7313 Jul 15 18:19	28° $\text{B}$ 43'27		evening rise	7314 Jul 07 02:41	28° $\text{B}$ 10'44	
	7313 Jul 16 08:35	0° $\text{O}$			7314 Jul 07 23:43	0° $\text{O}$	
evening rise	7313 Jul 22 16:57	13° $\text{O}$ 39'16		evening max el	7314 Jul 26 13:41	29° $\text{O}$ 59'35	21°10'41
	7313 Jul 30 22:16	0° $\text{np}$			7314 Jul 26 13:51	0° $\text{np}$	
evening max el	7313 Aug 13 18:38	19° $\text{np}$ 31'16	22°43'32	desc. node	7314 Aug 05 12:51	5° $\text{np}$ 44'44	
desc. node	7313 Aug 18 15:50	23° $\text{np}$ 27'30		retrograde	7314 Aug 07 12:10	5° $\text{np}$ 54'12	
retrograde	7313 Aug 26 22:55	26° $\text{np}$ 05'52		evening set	7314 Aug 09 19:47	5° $\text{np}$ 41'40	
evening set	7313 Aug 30 11:12	25° $\text{np}$ 38'51		inferior conj	7314 Aug 19 02:34	1° $\text{np}$ 43'54	-3°51'39
min. Earth dist.	7313 Sep 07 02:21	22° $\text{np}$ 15'14	0.55188 AU	minimum elong	7314 Aug 18 17:16	1° $\text{np}$ 56'58	3°48'59
inferior conj	7313 Sep 08 09:36	21° $\text{np}$ 30'40	-5°07'42	min. Earth dist.	7314 Aug 19 11:33	1° $\text{np}$ 31'14	0.54713 AU
minimum elong	7313 Sep 08 03:01	21° $\text{np}$ 40'05	5°06'43		7314 Aug 22 06:18	30° $\text{R}$ $\text{O}$	
morning rise	7313 Sep 16 20:50	17° $\text{np}$ 41'50		morning rise	7314 Aug 27 15:21	27° $\text{O}$ 49'31	
direct	7313 Sep 19 23:50	17° $\text{np}$ 19'20		direct	7314 Aug 31 08:03	27° $\text{O}$ 20'10	
morning max el	7313 Oct 01 06:24	22° $\text{np}$ 35'24	20°57'48		7314 Sep 08 18:00	0° $\text{np}$	
	7313 Oct 07 13:31	0° $\text{O}$		morning max el	7314 Sep 13 02:14	3° $\text{np}$ 23'48	22°35'37
asc. node	7313 Oct 10 10:30	4° $\text{O}$ 21'10		asc. node	7314 Sep 27 07:30	23° $\text{np}$ 02'17	
morning set	7313 Oct 20 19:23	23° $\text{O}$ 53'15			7314 Sep 30 23:56	0° $\text{O}$	
	7313 Oct 23 17:46	0° $\text{ml}$		morning set	7314 Oct 05 06:05	8° $\text{O}$ 42'41	
superior conj	7313 Oct 28 04:32	9° $\text{ml}$ 15'26	1°40'09	superior conj	7314 Oct 12 07:33	23° $\text{O}$ 47'49	1°41'51
minimum elong	7313 Oct 28 05:33	9° $\text{ml}$ 20'41	1°40'10	minimum elong	7314 Oct 12 07:15	23° $\text{O}$ 46'11	1°41'52
max. Earth dist.	7313 Nov 01 22:04	18° $\text{ml}$ 47'08	1.35653 AU		7314 Oct 15 06:18	0° $\text{ml}$	
evening rise	7313 Nov 05 22:57	26° $\text{ml}$ 31'41		max. Earth dist.	7314 Oct 15 14:35	0° $\text{ml}$ 42'57	1.34021 AU
	7313 Nov 07 20:03	0° $\text{x}$		evening rise	7314 Oct 20 05:58	10° $\text{ml}$ 04'08	
desc. node	7313 Nov 14 14:55	11° $\text{x}$ 50'28			7314 Oct 31 06:26	0° $\text{x}$	
	7313 Nov 26 10:12	0° $\text{B}$		desc. node	7314 Nov 01 11:56	2° $\text{x}$ 01'28	
evening max el	7313 Dec 11 10:41	18° $\text{B}$ 14'54	26°22'52		7314 Nov 22 03:39	0° $\text{B}$	
retrograde	7313 Dec 24 06:32	25° $\text{B}$ 28'22		evening max el	7314 Nov 23 23:31	1° $\text{B}$ 49'09	27°08'23
evening set	7313 Dec 30 14:41	22° $\text{B}$ 54'31		retrograde	7314 Dec 07 08:10	9° $\text{B}$ 08'53	
min. Earth dist.	7314 Jan 03 18:27	18° $\text{B}$ 35'48	0.66513 AU	evening set	7314 Dec 14 03:05	6° $\text{B}$ 31'16	
inferior conj	7314 Jan 05 10:43	16° $\text{B}$ 33'37	-0°19'27	min. Earth dist.	7314 Dec 18 00:54	2° $\text{B}$ 46'55	0.65179 AU
minimum elong	7314 Jan 05 11:14	16° $\text{B}$ 32'01	0°19'08	inferior conj	7314 Dec 20 04:55	0° $\text{B}$ 21'44	-1°22'21
asc. node	7314 Jan 06 09:46	15° $\text{B}$ 24'15		minimum elong	7314 Dec 20 07:21	0° $\text{B}$ 14'56	1°21'14
morning rise	7314 Jan 11 08:32	10° $\text{B}$ 48'24			7314 Dec 20 12:42	30° $\text{R}$ $\text{x}$	
direct	7314 Jan 14 09:11	9° $\text{B}$ 56'41		asc. node	7314 Dec 24 06:50	26° $\text{x}$ 16'19	
morning max el	7314 Jan 20 23:58	13° $\text{B}$ 31'47	18°33'54	morning rise	7314 Dec 26 12:54	24° $\text{x}$ 49'11	
	7314 Feb 02 02:13	0° $\text{B}$		direct	7314 Dec 29 04:50	24° $\text{x}$ 11'21	
morning set	7314 Feb 10 15:15	13° $\text{B}$ 26'55		morning max el	7315 Jan 04 15:31	27° $\text{x}$ 36'23	18°02'48
desc. node	7314 Feb 10 14:14	13° $\text{B}$ 22'55			7315 Jan 06 19:29	0° $\text{B}$	
	7314 Feb 21 03:24	0° $\text{H}$					

morning set	7315 Jan 22 15:50	24° $\text{Z}$ 26'19		desc. node	7316 Jan 15 08:12	24° $\text{Z}$ 39'24	
	7315 Jan 26 01:02	0° $\approx$					
desc. node	7315 Jan 28 11:13	3° $\approx$ 57'25		superior conj	7316 Jan 17 04:25	27° $\text{Z}$ 41'51	-0°13'15
				minimum elong	7316 Jan 17 02:59	27° $\text{Z}$ 35'59	0°12'58
superior conj	7315 Feb 06 01:07	17° $\approx$ 43'32	-0°58'37	behind sun begin	7316 Jan 16 21:15	27° $\text{Z}$ 12'22	
minimum elong	7315 Feb 05 18:12	17° $\approx$ 16'06	0°57'40	behind sun end	7316 Jan 17 08:44	27° $\text{Z}$ 59'33	
max. Earth dist.	7315 Feb 09 10:32	23° $\approx$ 04'35	1.45274 AU		7316 Jan 18 14:11	0° $\approx$	
	7315 Feb 13 20:44	0° $\text{X}$		max. Earth dist.	7316 Jan 23 04:29	7° $\approx$ 24'33	1.44404 AU
evening rise	7315 Feb 22 06:09	13° $\text{X}$ 01'06		evening rise	7316 Feb 01 17:06	22° $\approx$ 18'29	
	7315 Mar 05 08:03	0° $\text{Y}$			7316 Feb 06 18:08	0° $\text{X}$	
greatest brilliancy	7315 Mar 07 18:27	3° $\text{Y}$ 38'44	-0.7m		7316 Feb 28 00:11	0° $\text{Y}$	
evening max el	7315 Mar 19 12:55	19° $\text{Y}$ 12'49	19°40'55	evening max el	7316 Mar 01 14:01	2° $\text{Y}$ 50'11	20°43'48
asc. node	7315 Mar 22 05:56	21° $\text{Y}$ 36'50		asc. node	7316 Mar 08 02:59	7° $\text{Y}$ 25'51	
retrograde	7315 Mar 26 21:45	23° $\text{Y}$ 26'57		retrograde	7316 Mar 09 20:12	7° $\text{Y}$ 41'10	
evening set	7315 Mar 30 13:33	22° $\text{Y}$ 08'41		evening set	7316 Mar 13 21:10	6° $\text{Y}$ 07'59	
inferior conj	7315 Apr 04 23:09	16° $\text{Y}$ 11'34	3°18'26	inferior conj	7316 Mar 19 04:54	29° $\text{X}$ 58'22	2°59'12
minimum elong	7315 Apr 04 21:53	16° $\text{Y}$ 15'46	3°18'16	minimum elong	7316 Mar 19 02:54	0° $\text{Y}$ 05'15	2°58'48
min. Earth dist.	7315 Apr 06 01:56	14° $\text{Y}$ 42'35	0.67047 AU		7316 Mar 19 04:26	30° $\text{X}$	
morning rise	7315 Apr 10 05:55	9° $\text{Y}$ 54'41		min. Earth dist.	7316 Mar 19 18:02	29° $\text{X}$ 13'11	0.67883 AU
direct	7315 Apr 16 06:33	7° $\text{Y}$ 13'26		morning rise	7316 Mar 24 08:26	23° $\text{X}$ 43'34	
desc. node	7315 Apr 26 10:40	12° $\text{Y}$ 35'02		direct	7316 Mar 29 19:54	21° $\text{X}$ 17'30	
morning max el	7315 Apr 28 10:31	14° $\text{Y}$ 30'33	25°28'04	morning max el	7316 Apr 09 19:19	27° $\text{X}$ 51'10	24°01'06
	7315 May 11 01:57	0° $\text{Z}$			7316 Apr 11 20:02	0° $\text{Y}$	
	7315 May 30 07:31	0° $\text{II}$		desc. node	7316 Apr 12 07:41	0° $\text{Y}$ 32'20	
morning set	7315 Jun 03 13:48	7° $\text{II}$ 32'47			7316 May 03 18:26	0° $\text{Z}$	
max. Earth dist.	7315 Jun 07 06:26	14° $\text{II}$ 22'17	1.36148 AU	morning set	7316 May 15 09:08	18° $\text{Z}$ 58'31	
				max. Earth dist.	7316 May 19 02:45	25° $\text{Z}$ 30'53	1.38276 AU
superior conj	7315 Jun 13 05:58	25° $\text{II}$ 58'49	-0°48'23		7316 May 21 14:27	0° $\text{II}$	
minimum elong	7315 Jun 13 08:49	26° $\text{II}$ 13'02	0°47'57				
	7315 Jun 15 06:00	0° $\text{S}$		superior conj	7316 May 26 08:42	8° $\text{II}$ 52'11	-1°19'10
asc. node	7315 Jun 18 05:05	6° $\text{S}$ 01'41		minimum elong	7316 May 26 13:23	9° $\text{II}$ 14'28	1°18'33
evening rise	7315 Jun 21 08:25	12° $\text{S}$ 26'19		evening rise	7316 Jun 04 07:34	26° $\text{II}$ 19'02	
	7315 Jun 30 15:00	0° $\text{Q}$		asc. node	7316 Jun 04 02:06	25° $\text{II}$ 52'11	
evening max el	7315 Jul 08 21:23	11° $\text{Q}$ 06'43	19°54'15		7316 Jun 06 04:46	0° $\text{S}$	
retrograde	7315 Jul 19 03:20	16° $\text{Q}$ 09'15		evening max el	7316 Jun 20 17:38	22° $\text{S}$ 58'23	18°58'01
evening set	7315 Jul 21 00:17	15° $\text{Q}$ 59'53		retrograde	7316 Jun 29 08:19	27° $\text{S}$ 13'08	
desc. node	7315 Jul 23 09:52	15° $\text{Q}$ 22'29		evening set	7316 Jul 01 07:48	27° $\text{S}$ 00'35	
inferior conj	7315 Jul 29 23:40	11° $\text{Q}$ 59'22	-1°59'27	desc. node	7316 Jul 09 06:56	22° $\text{S}$ 56'16	
minimum elong	7315 Jul 29 18:10	12° $\text{Q}$ 07'45	1°57'27	inferior conj	7316 Jul 09 13:22	22° $\text{S}$ 45'00	-0°04'51
min. Earth dist.	7315 Jul 31 23:17	10° $\text{Q}$ 46'59	0.55201 AU	minimum elong	7316 Jul 09 13:10	22° $\text{S}$ 45'21	0°04'51
morning rise	7315 Aug 07 10:10	7° $\text{Q}$ 39'00		transit middle	7316 Jul 09 13:10	22° $\text{S}$ 45'21	0°04'51
direct	7315 Aug 11 20:54	6° $\text{Q}$ 55'33		transit begin	7316 Jul 09 09:35	22° $\text{S}$ 51'38	
morning max el	7315 Aug 25 15:39	13° $\text{Q}$ 43'58	24°21'03	transit end	7316 Jul 09 16:45	22° $\text{S}$ 39'04	
	7315 Sep 07 07:14	0° $\text{P}$		min. Earth dist.	7316 Jul 12 14:21	20° $\text{S}$ 37'50	0.56572 AU
asc. node	7315 Sep 14 04:30	12° $\text{P}$ 14'08		morning rise	7316 Jul 17 15:14	17° $\text{S}$ 48'32	
morning set	7315 Sep 19 17:48	23° $\text{P}$ 33'27		direct	7316 Jul 22 23:08	16° $\text{S}$ 41'10	
	7315 Sep 22 17:33	0° $\text{U}$		morning max el	7316 Aug 06 05:22	24° $\text{S}$ 03'00	25°58'22
					7316 Aug 11 15:35	0° $\text{Q}$	
superior conj	7315 Sep 26 15:38	8° $\text{U}$ 33'35	1°37'12		7316 Aug 30 04:01	0° $\text{P}$	
minimum elong	7315 Sep 26 14:16	8° $\text{U}$ 26'10	1°37'08	asc. node	7316 Aug 31 01:29	1° $\text{P}$ 48'03	
max. Earth dist.	7315 Sep 28 15:25	12° $\text{U}$ 52'31	1.32811 AU	morning set	7316 Sep 03 04:54	8° $\text{P}$ 19'59	
evening rise	7315 Oct 04 00:03	24° $\text{U}$ 06'55					
	7315 Oct 06 23:05	0° $\text{M}$		superior conj	7316 Sep 10 02:31	23° $\text{P}$ 24'46	1°26'56
desc. node	7315 Oct 19 08:56	21° $\text{M}$ 48'59		minimum elong	7316 Sep 10 00:29	23° $\text{P}$ 13'32	1°26'42
	7315 Oct 24 20:40	0° $\text{X}$		max. Earth dist.	7316 Sep 10 22:44	25° $\text{P}$ 16'20	1.32054 AU
evening max el	7315 Nov 06 11:03	15° $\text{X}$ 02'37	27°28'14		7316 Sep 13 02:29	0° $\text{U}$	
retrograde	7315 Nov 20 03:31	22° $\text{X}$ 20'50		evening rise	7316 Sep 17 02:02	8° $\text{U}$ 30'23	
evening set	7315 Nov 27 05:14	19° $\text{X}$ 47'53			7316 Sep 28 08:25	0° $\text{M}$	
min. Earth dist.	7315 Nov 30 22:30	16° $\text{X}$ 35'09	0.63518 AU	desc. node	7316 Oct 05 05:59	11° $\text{M}$ 02'33	
inferior conj	7315 Dec 03 13:53	13° $\text{X}$ 55'27	-2°29'19	evening max el	7316 Oct 18 18:59	27° $\text{M}$ 41'09	27°16'44
minimum elong	7315 Dec 03 18:29	13° $\text{X}$ 43'50	2°27'27		7316 Oct 21 10:21	0° $\text{X}$	
morning rise	7315 Dec 10 09:31	8° $\text{X}$ 38'23		retrograde	7316 Nov 01 15:21	4° $\text{X}$ 53'37	
asc. node	7315 Dec 11 03:52	8° $\text{X}$ 23'32		evening set	7316 Nov 08 17:35	2° $\text{X}$ 35'48	
direct	7315 Dec 12 19:05	8° $\text{X}$ 10'30			7316 Nov 12 04:06	30° $\text{R}$	
morning max el	7315 Dec 19 08:47	11° $\text{X}$ 34'53	17°48'56	min. Earth dist.	7316 Nov 12 09:40	29° $\text{M}$ 48'05	0.61590 AU
	7315 Dec 31 21:27	0° $\text{Z}$		inferior conj	7316 Nov 15 10:26	27° $\text{M}$ 05'40	-3°36'45
morning set	7316 Jan 04 19:00	6° $\text{Z}$ 43'20		minimum elong	7316 Nov 15 16:55	26° $\text{M}$ 51'11	3°34'36

morning rise	7316 Nov 22 18:22	22° $\mathbb{M}$ 07'25		morning rise	7317 Nov 05 10:31	5° $\mathbb{M}$ 06'45	
direct	7316 Nov 25 00:32	21° $\mathbb{M}$ 45'50		direct	7317 Nov 07 17:01	4° $\mathbb{M}$ 48'19	
asc. node	7316 Nov 27 00:54	22° $\mathbb{M}$ 03'39		asc. node	7317 Nov 13 21:56	7° $\mathbb{M}$ 14'26	
morning max el	7316 Dec 02 00:32	25° $\mathbb{M}$ 17'52	17°53'15	morning max el	7317 Nov 15 11:21	8° $\mathbb{M}$ 36'34	18°17'09
	7316 Dec 05 22:35	0° $\mathbb{M}$			7317 Nov 29 06:48	0° $\mathbb{M}$	
morning set	7316 Dec 17 18:07	19° $\mathbb{M}$ 56'54		morning set	7317 Dec 01 07:19	3° $\mathbb{M}$ 49'29	
	7316 Dec 23 07:48	0° $\mathbb{M}$					
superior conj	7316 Dec 28 09:32	8° $\mathbb{M}$ 54'31	0°27'39	superior conj	7317 Dec 10 14:26	21° $\mathbb{M}$ 15'17	0°59'48
minimum elong	7316 Dec 28 11:54	9° $\mathbb{M}$ 04'40	0°27'24	minimum elong	7317 Dec 10 18:00	21° $\mathbb{M}$ 31'30	0°59'25
desc. node	7317 Jan 01 05:11	15° $\mathbb{M}$ 24'44			7317 Dec 15 12:03	0° $\mathbb{M}$	
max. Earth dist.	7317 Jan 04 19:01	21° $\mathbb{M}$ 20'40	1.42917 AU	max. Earth dist.	7317 Dec 18 04:49	4° $\mathbb{M}$ 39'20	1.40983 AU
	7317 Jan 10 04:04	0° $\mathbb{M}$		desc. node	7317 Dec 19 02:12	6° $\mathbb{M}$ 10'05	
evening rise	7317 Jan 11 10:07	1° $\mathbb{M}$ 58'24		evening rise	7317 Dec 22 21:04	12° $\mathbb{M}$ 27'59	
	7317 Jan 30 06:08	0° $\mathbb{M}$			7318 Jan 03 02:10	0° $\mathbb{M}$	
evening max el	7317 Feb 12 09:51	16° $\mathbb{M}$ 29'14	21°57'26	evening max el	7318 Jan 25 21:18	0° $\mathbb{M}$	
retrograde	7317 Feb 21 17:34	22° $\mathbb{M}$ 00'50		retrograde	7318 Jan 26 01:31	0° $\mathbb{M}$ 10'34	23°16'49
asc. node	7317 Feb 23 00:03	21° $\mathbb{M}$ 52'29		asc. node	7318 Feb 05 12:23	6° $\mathbb{M}$ 21'43	
evening set	7317 Feb 26 05:05	20° $\mathbb{M}$ 12'20		evening set	7318 Feb 09 21:07	4° $\mathbb{M}$ 47'01	
inferior conj	7317 Mar 03 12:58	13° $\mathbb{M}$ 52'57	2°30'15		7318 Feb 10 11:45	4° $\mathbb{M}$ 18'04	
minimum elong	7317 Mar 03 10:40	14° $\mathbb{M}$ 00'56	2°29'38	inferior conj	7318 Feb 14 07:53	30° $\mathbb{M}$	
min. Earth dist.	7317 Mar 03 13:34	13° $\mathbb{M}$ 50'51	0.68286 AU	minimum elong	7318 Feb 15 21:24	27° $\mathbb{M}$ 52'14	1°52'38
morning rise	7317 Mar 08 16:05	7° $\mathbb{M}$ 41'47		min. Earth dist.	7318 Feb 15 19:15	27° $\mathbb{M}$ 59'37	1°51'56
direct	7317 Mar 13 13:22	5° $\mathbb{M}$ 36'21		morning rise	7318 Feb 15 10:17	28° $\mathbb{M}$ 30'30	0.68279 AU
morning max el	7317 Mar 23 05:47	11° $\mathbb{M}$ 18'46	22°31'43	direct	7318 Feb 21 02:42	21° $\mathbb{M}$ 46'03	
desc. node	7317 Mar 30 04:41	19° $\mathbb{M}$ 21'53		morning max el	7318 Feb 25 09:55	20° $\mathbb{M}$ 03'20	
	7317 Apr 07 00:58	0° $\mathbb{M}$			7318 Mar 05 21:32	24° $\mathbb{M}$ 56'46	21°08'12
morning set	7317 Apr 26 02:31	29° $\mathbb{M}$ 09'51		desc. node	7318 Mar 10 09:30	0° $\mathbb{M}$	
	7317 Apr 26 14:45	0° $\mathbb{M}$			7318 Mar 17 01:40	8° $\mathbb{M}$ 48'57	
max. Earth dist.	7317 Apr 30 23:42	7° $\mathbb{M}$ 18'05	1.40510 AU	morning set	7318 Mar 31 11:09	0° $\mathbb{M}$	
				max. Earth dist.	7318 Apr 05 16:25	8° $\mathbb{M}$ 05'35	
superior conj	7317 May 08 18:54	20° $\mathbb{M}$ 57'15	-1°46'28		7318 Apr 13 02:46	19° $\mathbb{M}$ 59'43	1.42566 AU
minimum elong	7317 May 09 00:29	21° $\mathbb{M}$ 22'24	1°45'58		7318 Apr 19 03:00	0° $\mathbb{M}$	
	7317 May 13 17:16	0° $\mathbb{M}$		superior conj	7318 Apr 20 07:40	2° $\mathbb{M}$ 01'58	-2°05'38
evening rise	7317 May 18 20:52	9° $\mathbb{M}$ 40'40		minimum elong	7318 Apr 20 11:38	2° $\mathbb{M}$ 18'58	2°05'30
asc. node	7317 May 21 23:08	15° $\mathbb{M}$ 28'52		evening rise	7318 May 01 20:13	22° $\mathbb{M}$ 20'32	
	7317 May 30 12:07	0° $\mathbb{M}$			7318 May 06 02:47	0° $\mathbb{M}$	
evening max el	7317 Jun 03 23:13	5° $\mathbb{M}$ 28'09	18°22'24	asc. node	7318 May 08 20:12	4° $\mathbb{M}$ 45'32	
retrograde	7317 Jun 11 08:43	9° $\mathbb{M}$ 09'40		evening max el	7318 May 18 10:16	18° $\mathbb{M}$ 25'20	18°06'39
evening set	7317 Jun 13 15:05	8° $\mathbb{M}$ 49'47		retrograde	7318 May 25 02:26	21° $\mathbb{M}$ 49'44	
inferior conj	7317 Jun 21 00:45	4° $\mathbb{M}$ 13'48	1°27'39	evening set	7318 May 27 16:05	21° $\mathbb{M}$ 19'36	
minimum elong	7317 Jun 21 03:29	4° $\mathbb{M}$ 08'10	1°26'39	inferior conj	7318 Jun 03 08:28	16° $\mathbb{M}$ 23'15	2°31'05
min. Earth dist.	7317 Jun 24 10:28	1° $\mathbb{M}$ 27'06	0.58541 AU	minimum elong	7318 Jun 03 11:33	16° $\mathbb{M}$ 15'52	2°30'14
desc. node	7317 Jun 26 03:59	0° $\mathbb{M}$		min. Earth dist.	7318 Jun 06 13:57	13° $\mathbb{M}$ 19'42	0.60762 AU
	7317 Jun 26 10:05	30° $\mathbb{M}$		morning rise	7318 Jun 10 04:37	10° $\mathbb{M}$ 28'24	
morning rise	7317 Jun 28 12:39	28° $\mathbb{M}$ 43'26		desc. node	7318 Jun 13 01:03	9° $\mathbb{M}$ 00'19	
direct	7317 Jul 04 15:16	27° $\mathbb{M}$ 05'00		direct	7318 Jun 16 19:20	8° $\mathbb{M}$ 18'25	
	7317 Jul 13 03:46	0° $\mathbb{M}$		morning max el	7318 Jul 01 02:30	16° $\mathbb{M}$ 16'08	27°50'04
morning max el	7317 Jul 19 00:31	4° $\mathbb{M}$ 48'54	27°11'36		7318 Jul 12 08:57	0° $\mathbb{M}$	
	7317 Aug 06 13:09	0° $\mathbb{M}$			7318 Jul 30 03:01	0° $\mathbb{M}$	
asc. node	7317 Aug 17 22:29	21° $\mathbb{M}$ 37'50		morning set	7318 Aug 02 18:32	7° $\mathbb{M}$ 21'06	
morning set	7317 Aug 18 13:45	22° $\mathbb{M}$ 57'52		asc. node	7318 Aug 04 19:30	11° $\mathbb{M}$ 37'32	
	7317 Aug 21 20:25	0° $\mathbb{M}$		max. Earth dist.	7318 Aug 08 19:02	20° $\mathbb{M}$ 13'41	1.31878 AU
superior conj	7317 Aug 25 14:21	8° $\mathbb{M}$ 15'46	1°11'36	superior conj	7318 Aug 10 01:20	23° $\mathbb{M}$ 00'17	0°51'38
minimum elong	7317 Aug 25 12:05	8° $\mathbb{M}$ 03'13	1°11'13	minimum elong	7318 Aug 09 23:19	22° $\mathbb{M}$ 49'11	0°51'13
max. Earth dist.	7317 Aug 25 09:14	7° $\mathbb{M}$ 47'25	1.31747 AU		7318 Aug 13 05:25	0° $\mathbb{M}$	
evening rise	7317 Sep 01 09:24	23° $\mathbb{M}$ 07'17		evening rise	7318 Aug 16 19:54	7° $\mathbb{M}$ 50'19	
	7317 Sep 04 16:57	0° $\mathbb{M}$			7318 Aug 28 06:06	0° $\mathbb{M}$	
desc. node	7317 Sep 22 03:03	29° $\mathbb{M}$ 28'42		desc. node	7318 Sep 09 00:07	16° $\mathbb{M}$ 48'27	
	7317 Sep 22 12:23	0° $\mathbb{M}$		evening max el	7318 Sep 12 13:48	20° $\mathbb{M}$ 33'43	25°15'23
evening max el	7317 Sep 30 20:27	9° $\mathbb{M}$ 32'53	26°31'15	retrograde	7318 Sep 26 11:26	27° $\mathbb{M}$ 35'24	
retrograde	7317 Oct 14 18:26	16° $\mathbb{M}$ 39'37		evening set	7318 Oct 02 06:41	26° $\mathbb{M}$ 18'15	
evening set	7317 Oct 21 11:38	14° $\mathbb{M}$ 47'50		min. Earth dist.	7318 Oct 07 01:24	23° $\mathbb{M}$ 38'15	0.57501 AU
min. Earth dist.	7317 Oct 25 10:00	12° $\mathbb{M}$ 12'56	0.59518 AU	inferior conj	7318 Oct 10 00:37	21° $\mathbb{M}$ 37'57	-5°20'25
inferior conj	7317 Oct 28 15:06	9° $\mathbb{M}$ 42'57	-4°37'48	minimum elong	7318 Oct 10 04:39	21° $\mathbb{M}$ 31'07	5°19'58
minimum elong	7317 Oct 28 21:57	9° $\mathbb{M}$ 29'33	4°36'12	morning rise	7318 Oct 18 04:55	17° $\mathbb{M}$ 24'58	

direct	7318 Oct 20 15:59	17° $\Omega$ 07'02		morning rise	7319 Sep 28 23:26	28° $\Pi$ 51'20	
morning max el	7318 Oct 29 13:45	21° $\Omega$ 21'24	19°02'14	direct	7319 Oct 01 19:24	28° $\Pi$ 31'22	
asc. node	7318 Oct 31 18:57	23° $\Omega$ 43'05			7319 Oct 07 13:24	0° $\Omega$	
	7318 Nov 05 08:08	0° $\Pi$		morning max el	7319 Oct 12 04:34	3° $\Omega$ 22'48	20°09'30
morning set	7318 Nov 15 06:14	18° $\Pi$ 08'33		asc. node	7319 Oct 18 15:58	11° $\Omega$ 14'04	
	7318 Nov 21 06:18	0° $\mathcal{A}$			7319 Oct 29 03:06	0° $\Pi$	
				morning set	7319 Oct 30 11:32	2° $\Pi$ 44'31	
superior conj	7318 Nov 23 14:02	4° $\mathcal{A}$ 29'54	1°22'21	superior conj	7319 Nov 07 03:17	18° $\Pi$ 23'26	1°35'57
minimum elong	7318 Nov 23 17:06	4° $\mathcal{A}$ 44'39	1°22'06	minimum elong	7319 Nov 07 05:07	18° $\Pi$ 32'39	1°35'54
max. Earth dist.	7318 Nov 30 10:39	17° $\mathcal{A}$ 14'38	1.38836 AU	max. Earth dist.	7319 Nov 12 16:39	29° $\Pi$ 16'26	1.36741 AU
evening rise	7318 Dec 04 06:16	23° $\mathcal{A}$ 57'11			7319 Nov 13 01:50	0° $\mathcal{A}$	
desc. node	7318 Dec 05 23:13	26° $\mathcal{A}$ 51'58		evening rise	7319 Nov 16 12:14	6° $\mathcal{A}$ 21'58	
	7318 Dec 07 20:07	0° $\mathcal{B}$		desc. node	7319 Nov 22 20:14	17° $\mathcal{A}$ 25'51	
	7318 Dec 27 21:02	0° $\approx$			7319 Nov 30 16:34	0° $\mathcal{B}$	
evening max el	7319 Jan 08 14:52	13° $\approx$ 55'13	24°35'55	evening max el	7319 Dec 22 03:44	27° $\mathcal{B}$ 41'08	25°47'50
retrograde	7319 Jan 20 03:36	20° $\approx$ 39'29			7319 Dec 24 16:27	0° $\approx$	
evening set	7319 Jan 25 15:37	18° $\approx$ 21'53		retrograde	7320 Jan 03 14:07	4° $\approx$ 47'45	
asc. node	7319 Jan 27 18:11	16° $\approx$ 15'21		evening set	7320 Jan 09 15:00	2° $\approx$ 18'49	
min. Earth dist.	7319 Jan 30 06:00	13° $\approx$ 08'26	0.67880 AU		7320 Jan 11 23:25	30° $\mathcal{R}$ $\mathcal{B}$	
inferior conj	7319 Jan 31 04:24	11° $\approx$ 53'48	1°07'04	min. Earth dist.	7320 Jan 13 22:26	27° $\mathcal{B}$ 39'49	0.67110 AU
minimum elong	7319 Jan 31 02:53	11° $\approx$ 58'51	1°06'33	asc. node	7320 Jan 14 15:14	26° $\mathcal{B}$ 46'54	
morning rise	7319 Feb 05 14:20	5° $\approx$ 54'05		inferior conj	7320 Jan 15 08:04	25° $\mathcal{B}$ 53'31	0°14'06
direct	7319 Feb 09 08:25	4° $\approx$ 33'21		minimum elong	7320 Jan 15 07:42	25° $\mathcal{B}$ 54'41	0°14'02
morning max el	7319 Feb 16 20:58	8° $\approx$ 47'17	19°56'22	transit middle	7320 Jan 15 07:42	25° $\mathcal{B}$ 54'41	0°14'02
desc. node	7319 Mar 03 22:40	28° $\approx$ 43'38		transit begin	7320 Jan 15 06:19	25° $\mathcal{B}$ 59'05	
	7319 Mar 04 19:13	0° $\mathcal{H}$		transit end	7320 Jan 15 09:06	25° $\mathcal{B}$ 50'17	
morning set	7319 Mar 15 13:59	16° $\mathcal{H}$ 22'10		morning rise	7320 Jan 21 00:55	20° $\mathcal{B}$ 02'09	
	7319 Mar 24 07:41	0° $\mathcal{Y}$		direct	7320 Jan 24 07:22	19° $\mathcal{B}$ 00'52	
max. Earth dist.	7319 Mar 26 12:52	3° $\mathcal{Y}$ 31'00	1.44185 AU	morning max el	7320 Jan 31 04:01	22° $\mathcal{B}$ 47'02	18°59'19
					7320 Feb 06 03:15	0° $\approx$	
superior conj	7319 Mar 31 19:38	12° $\mathcal{Y}$ 01'09	-2°10'43	desc. node	7320 Feb 18 19:37	18° $\approx$ 57'48	
minimum elong	7319 Mar 31 18:15	11° $\mathcal{Y}$ 55'34	2°10'44	morning set	7320 Feb 22 19:02	25° $\approx$ 08'28	
	7319 Apr 11 14:39	0° $\mathcal{B}$			7320 Feb 25 21:55	0° $\mathcal{H}$	
evening rise	7319 Apr 14 01:06	4° $\mathcal{B}$ 09'26		max. Earth dist.	7320 Mar 08 04:30	17° $\mathcal{H}$ 37'17	1.45183 AU
asc. node	7319 Apr 25 17:16	23° $\mathcal{B}$ 35'47					
	7319 Apr 30 09:50	0° $\Pi$		superior conj	7320 Mar 10 09:08	21° $\mathcal{H}$ 04'21	-1°56'36
evening max el	7319 May 01 23:26	1° $\Pi$ 41'50	18°10'03	minimum elong	7320 Mar 10 01:13	20° $\mathcal{H}$ 33'08	1°56'03
retrograde	7319 May 08 08:59	5° $\Pi$ 03'49			7320 Mar 16 00:17	0° $\mathcal{Y}$	
evening set	7319 May 11 05:36	4° $\Pi$ 21'31		evening rise	7320 Mar 25 07:22	14° $\mathcal{Y}$ 59'54	
	7319 May 16 12:42	30° $\mathcal{R}$ $\mathcal{B}$			7320 Apr 03 13:04	0° $\mathcal{B}$	
inferior conj	7319 May 17 08:44	29° $\mathcal{B}$ 06'17	3°08'15	asc. node	7320 Apr 11 14:19	11° $\mathcal{B}$ 50'52	
minimum elong	7319 May 17 10:48	29° $\mathcal{B}$ 00'42	3°07'52	evening max el	7320 Apr 14 11:46	15° $\mathcal{B}$ 10'04	18°31'55
min. Earth dist.	7319 May 20 02:25	26° $\mathcal{B}$ 09'31	0.62939 AU	retrograde	7320 Apr 20 23:59	18° $\mathcal{B}$ 42'59	
morning rise	7319 May 23 14:30	22° $\mathcal{B}$ 57'24		evening set	7320 Apr 24 03:38	17° $\mathcal{B}$ 47'14	
direct	7319 May 30 09:31	20° $\mathcal{B}$ 22'59		inferior conj	7320 Apr 29 21:25	12° $\mathcal{B}$ 14'33	3°24'28
desc. node	7319 May 30 22:05	20° $\mathcal{B}$ 23'50		minimum elong	7320 Apr 29 22:03	12° $\mathcal{B}$ 12'38	3°24'23
morning max el	7319 Jun 13 09:49	28° $\mathcal{B}$ 25'37	27°50'20	min. Earth dist.	7320 May 02 00:05	9° $\mathcal{B}$ 43'36	0.64850 AU
	7319 Jun 14 22:15	0° $\Pi$		morning rise	7320 May 05 15:41	5° $\mathcal{B}$ 59'24	
	7319 Jul 06 04:50	0° $\mathcal{G}$		direct	7320 May 12 07:41	3° $\mathcal{B}$ 12'37	
morning set	7319 Jul 17 17:05	21° $\mathcal{G}$ 23'23		desc. node	7320 May 16 19:06	4° $\mathcal{B}$ 16'06	
	7319 Jul 21 21:08	0° $\Omega$		morning max el	7320 May 25 19:40	11° $\mathcal{B}$ 08'26	27°15'36
asc. node	7319 Jul 22 16:30	1° $\Omega$ 42'44			7320 Jun 09 18:01	0° $\Pi$	
max. Earth dist.	7319 Jul 23 00:01	2° $\Omega$ 22'48	1.32463 AU		7320 Jun 27 16:37	0° $\mathcal{G}$	
				morning set	7320 Jun 30 06:41	4° $\mathcal{G}$ 56'53	
superior conj	7319 Jul 25 09:38	7° $\Omega$ 32'57	0°27'32	max. Earth dist.	7320 Jul 04 20:32	14° $\mathcal{G}$ 05'37	1.33525 AU
minimum elong	7319 Jul 25 08:22	7° $\Omega$ 26'07	0°27'11				
evening rise	7319 Aug 01 07:36	22° $\Omega$ 33'33		superior conj	7320 Jul 08 13:14	21° $\mathcal{G}$ 47'51	-0°00'07
	7319 Aug 04 21:13	0° $\Pi$		minimum elong	7320 Jul 08 13:15	21° $\mathcal{G}$ 47'53	0°00'13
	7319 Aug 24 02:46	0° $\Omega$		behind sun begin	7320 Jul 08 07:43	21° $\mathcal{G}$ 18'41	
evening max el	7319 Aug 25 01:44	0° $\Omega$ 57'14	23°40'25	behind sun end	7320 Jul 08 18:46	22° $\mathcal{G}$ 17'07	
desc. node	7319 Aug 26 21:11	2° $\Omega$ 36'05		asc. node	7320 Jul 08 13:32	21° $\mathcal{G}$ 49'23	
retrograde	7319 Sep 07 16:34	7° $\Omega$ 46'44			7320 Jul 12 09:35	0° $\Omega$	
evening set	7319 Sep 12 01:38	7° $\Omega$ 04'41		evening rise	7320 Jul 15 18:38	7° $\Omega$ 11'26	
min. Earth dist.	7319 Sep 18 11:51	4° $\Omega$ 00'55	0.55843 AU		7320 Jul 27 21:13	0° $\Pi$	
inferior conj	7319 Sep 20 13:58	2° $\Omega$ 45'50	-5°27'01	evening max el	7320 Aug 05 15:59	11° $\Pi$ 15'13	22°02'35
minimum elong	7319 Sep 20 11:24	2° $\Omega$ 49'42	5°26'51	desc. node	7320 Aug 12 18:14	16° $\Pi$ 19'54	
	7319 Sep 25 15:43	30° $\mathcal{R}$ $\Pi$					

retrograde	7320 Aug 18 09:39	17° $\cap$ 34'42		desc. node	7321 Jul 30 15:18	27° $\Omega$ 29'43	
evening set	7320 Aug 21 07:37	17° $\cap$ 15'49		evening set	7321 Jul 31 22:53	27° $\Omega$ 20'46	
inferior conj	7320 Aug 30 11:28	13° $\cap$ 13'48	-4°41'39	inferior conj	7321 Aug 10 04:22	23° $\Omega$ 23'48	-3°06'34
minimum elong	7320 Aug 30 02:51	13° $\cap$ 25'54	4°39'50	minimum elong	7321 Aug 09 20:05	23° $\Omega$ 35'41	3°03'50
min. Earth dist.	7320 Aug 29 20:55	13° $\cap$ 34'12	0.54870 AU	min. Earth dist.	7321 Aug 11 06:48	22° $\Omega$ 45'47	0.54809 AU
morning rise	7320 Sep 07 23:33	9° $\cap$ 24'47		morning rise	7321 Aug 18 16:53	19° $\Omega$ 20'48	
direct	7320 Sep 11 08:00	8° $\cap$ 59'51		direct	7321 Aug 22 17:02	18° $\Omega$ 46'23	
morning max el	7320 Sep 23 06:40	14° $\cap$ 36'34	21°37'35	morning max el	7321 Sep 04 22:48	25° $\Omega$ 09'26	23°20'17
asc. node	7320 Oct 04 12:57	29° $\cap$ 33'24			7321 Sep 09 10:59	0° $\cap$	
	7320 Oct 04 19:12	0° $\Omega$		asc. node	7321 Sep 21 09:57	18° $\cap$ 28'38	
morning set	7320 Oct 13 20:52	17° $\Omega$ 31'02			7321 Sep 27 05:18	0° $\Omega$	
	7320 Oct 19 18:51	0° $\cap$		morning set	7321 Sep 28 08:14	2° $\Omega$ 21'37	
superior conj	7320 Oct 21 02:14	2° $\cap$ 44'36	1°41'41	superior conj	7321 Oct 05 07:42	17° $\Omega$ 23'17	1°40'35
minimum elong	7320 Oct 21 02:40	2° $\cap$ 46'52	1°41'44	minimum elong	7321 Oct 05 06:54	17° $\Omega$ 19'01	1°40'35
max. Earth dist.	7320 Oct 25 04:34	11° $\cap$ 09'28	1.34912 AU	max. Earth dist.	7321 Oct 08 01:02	23° $\Omega$ 11'33	1.33461 AU
evening rise	7320 Oct 29 11:20	19° $\cap$ 33'17			7321 Oct 11 07:50	0° $\cap$	
	7320 Nov 04 03:54	0° $\nearrow$		evening rise	7321 Oct 12 23:31	3° $\cap$ 19'42	
desc. node	7320 Nov 08 17:15	7° $\nearrow$ 47'08		desc. node	7321 Oct 26 14:18	27° $\cap$ 49'08	
	7320 Nov 23 17:54	0° $\searrow$			7321 Oct 27 23:13	0° $\nearrow$	
evening max el	7320 Dec 03 16:57	11° $\searrow$ 23'10	26°45'02	evening max el	7321 Nov 16 05:40	24° $\nearrow$ 50'27	27°20'20
retrograde	7320 Dec 16 19:07	18° $\searrow$ 40'14			7321 Nov 22 20:15	0° $\searrow$	
evening set	7320 Dec 23 08:01	16° $\searrow$ 04'18		retrograde	7321 Nov 29 17:53	2° $\searrow$ 09'16	
min. Earth dist.	7320 Dec 27 09:15	12° $\searrow$ 00'01	0.65986 AU		7321 Dec 06 01:14	30° $\nearrow$ 21'42	
inferior conj	7320 Dec 29 06:24	9° $\searrow$ 47'24	-0°45'29	evening set	7321 Dec 06 16:22	29° $\nearrow$ 32'42	
minimum elong	7320 Dec 29 07:41	9° $\searrow$ 43'37	0°44'51	min. Earth dist.	7321 Dec 10 12:09	26° $\nearrow$ 02'16	0.64514 AU
asc. node	7320 Dec 31 12:17	7° $\searrow$ 15'01		inferior conj	7321 Dec 12 21:01	23° $\nearrow$ 30'03	-1°50'24
morning rise	7321 Jan 04 08:17	4° $\searrow$ 06'55		minimum elong	7321 Dec 13 00:21	23° $\nearrow$ 21'05	1°48'57
direct	7321 Jan 07 04:59	3° $\searrow$ 21'31		asc. node	7321 Dec 18 09:19	18° $\nearrow$ 34'46	
morning max el	7321 Jan 13 17:07	6° $\searrow$ 51'15	18°18'31	morning rise	7321 Dec 19 09:47	18° $\nearrow$ 03'31	
	7321 Jan 29 19:38	0° $\approx$		direct	7321 Dec 21 22:49	17° $\nearrow$ 30'14	
morning set	7321 Feb 02 02:25	5° $\approx$ 16'34		morning max el	7321 Dec 28 09:44	20° $\nearrow$ 53'39	17°54'44
desc. node	7321 Feb 04 16:34	9° $\approx$ 26'00			7322 Jan 04 08:54	0° $\searrow$	
superior conj	7321 Feb 17 13:16	29° $\approx$ 48'49	-1°23'24	morning set	7322 Jan 14 15:04	16° $\searrow$ 51'28	
minimum elong	7321 Feb 17 04:04	29° $\approx$ 12'46	1°22'20	desc. node	7322 Jan 22 13:33	0° $\approx$ 04'00	
	7321 Feb 17 16:07	0° $\nearrow$			7322 Jan 22 12:35	0° $\approx$	
max. Earth dist.	7321 Feb 18 23:42	2° $\nearrow$ 03'49	1.45459 AU	superior conj	7322 Jan 28 03:47	9° $\approx$ 08'34	-0°39'16
evening rise	7321 Mar 05 14:33	24° $\nearrow$ 55'45		minimum elong	7322 Jan 27 23:12	8° $\approx$ 50'09	0°38'34
	7321 Mar 08 20:13	0° $\Upsilon$		max. Earth dist.	7322 Feb 01 19:26	16° $\approx$ 32'53	1.44988 AU
greatest brilliancy	7321 Mar 16 13:18	11° $\Upsilon$ 59'49	-0.8m		7322 Feb 10 10:16	0° $\nearrow$	
evening max el	7321 Mar 28 20:54	28° $\Upsilon$ 44'15	19°11'11	evening rise	7322 Feb 13 05:11	4° $\nearrow$ 17'45	
asc. node	7321 Mar 29 11:22	29° $\Upsilon$ 19'54		greatest brilliancy	7322 Feb 28 00:04	26° $\nearrow$ 36'38	-0.6m
	7321 Mar 30 04:54	0° $\searrow$			7322 Mar 02 08:21	0° $\Upsilon$	
retrograde	7321 Apr 04 19:58	2° $\searrow$ 40'00		evening max el	7322 Mar 12 01:09	12° $\Upsilon$ 20'51	20°06'09
evening set	7321 Apr 08 07:10	1° $\searrow$ 29'59		asc. node	7322 Mar 16 08:26	15° $\Upsilon$ 49'55	
	7321 Apr 10 02:39	30° $\nearrow$ Y		retrograde	7322 Mar 19 18:13	16° $\Upsilon$ 49'39	
inferior conj	7321 Apr 13 18:55	25° $\Upsilon$ 41'19	3°24'27	evening set	7322 Mar 23 13:52	15° $\Upsilon$ 24'50	
minimum elong	7321 Apr 13 18:15	25° $\Upsilon$ 43'27	3°24'22	inferior conj	7322 Mar 28 22:23	9° $\Upsilon$ 22'02	3°11'34
min. Earth dist.	7321 Apr 15 06:08	23° $\Upsilon$ 48'05	0.66372 AU	minimum elong	7322 Mar 28 20:45	9° $\Upsilon$ 27'32	3°11'18
morning rise	7321 Apr 19 04:58	19° $\Upsilon$ 24'27		min. Earth dist.	7322 Mar 29 19:07	8° $\Upsilon$ 11'54	0.67454 AU
direct	7321 Apr 25 12:22	16° $\Upsilon$ 38'08		morning rise	7322 Apr 03 03:26	3° $\Upsilon$ 06'04	
desc. node	7321 May 03 16:05	20° $\Upsilon$ 06'51		direct	7322 Apr 08 22:38	0° $\Upsilon$ 30'38	
morning max el	7321 May 08 05:43	24° $\Upsilon$ 13'02	26°13'04	morning max el	7322 Apr 20 14:58	7° $\Upsilon$ 30'11	24°52'10
	7321 May 13 10:13	0° $\searrow$		desc. node	7322 Apr 20 13:04	7° $\Upsilon$ 25'23	
	7321 Jun 03 03:55	0° $\cap$			7322 May 08 04:10	0° $\searrow$	
morning set	7321 Jun 13 07:41	17° $\cap$ 50'45		morning set	7322 May 26 15:29	29° $\searrow$ 53'07	
max. Earth dist.	7321 Jun 17 06:14	25° $\cap$ 21'09	1.35070 AU		7322 May 26 17:02	0° $\cap$	
	7321 Jun 19 14:50	0° $\searrow$		max. Earth dist.	7322 May 30 06:24	6° $\cap$ 25'44	1.37026 AU
superior conj	7321 Jun 22 09:40	5° $\searrow$ 37'17	-0°30'22	superior conj	7322 Jun 05 19:56	18° $\cap$ 53'49	-1°01'37
minimum elong	7321 Jun 22 11:24	5° $\searrow$ 46'08	0°30'07	minimum elong	7322 Jun 05 23:36	19° $\cap$ 11'47	1°01'04
asc. node	7321 Jun 25 10:31	11° $\searrow$ 52'47			7322 Jun 11 09:49	0° $\searrow$	
evening rise	7321 Jun 30 02:58	21° $\searrow$ 37'09		asc. node	7322 Jun 12 07:34	1° $\searrow$ 49'31	
	7321 Jul 04 06:35	0° $\Omega$		evening rise	7322 Jun 14 06:18	5° $\searrow$ 44'30	
evening max el	7321 Jul 18 16:14	21° $\Omega$ 58'41	20°35'49		7322 Jun 28 05:07	0° $\Omega$	
retrograde	7321 Jul 29 21:41	27° $\Omega$ 31'04		evening max el	7322 Jul 01 05:28	3° $\Omega$ 24'44	19°27'42

retrograde	7322 Jul 10 17:52	8°♊05'57		asc. node	7323 May 30 04:36	21°♊34'36	
evening set	7322 Jul 12 14:56	7°♊55'47			7323 Jun 03 16:00	0°♊	
desc. node	7322 Jul 17 12:20	6°♊06'42		evening max el	7323 Jun 14 06:04	15°♊33'03	18°40'23
inferior conj	7322 Jul 21 07:25	3°♊49'26	-1°09'17	retrograde	7323 Jun 22 07:11	19°♊32'07	
minimum elong	7322 Jul 21 04:17	3°♊54'28	1°08'09	evening set	7323 Jun 24 09:11	19°♊17'02	
min. Earth dist.	7322 Jul 23 19:33	2°♊12'57	0.55695 AU	inferior conj	7323 Jul 02 06:11	14°♊53'02	0°37'47
	7322 Jul 27 18:46	30°♋♊		minimum elong	7323 Jul 02 07:36	14°♊50'24	0°37'11
morning rise	7322 Jul 29 15:05	29°♋14'22		desc. node	7323 Jul 04 09:23	13°♋16'34	
direct	7322 Aug 03 10:35	28°♋22'13		min. Earth dist.	7323 Jul 05 12:46	12°♋26'28	0.57350 AU
	7322 Aug 10 00:26	0°♋		morning rise	7323 Jul 10 02:30	9°♋40'52	
morning max el	7322 Aug 17 11:38	5°♋25'36	25°04'25	direct	7323 Jul 15 18:43	8°♋20'54	
	7322 Sep 04 03:28	0°♌		morning max el	7323 Jul 30 03:31	15°♋54'07	26°33'16
asc. node	7322 Sep 08 06:57	7°♌50'40			7323 Aug 10 14:36	0°♌	
morning set	7322 Sep 12 19:56	17°♌11'20		asc. node	7323 Aug 26 03:58	27°♌32'14	
	7322 Sep 18 17:12	0°♍			7323 Aug 27 08:27	0°♌	
				morning set	7323 Aug 28 06:20	1°♌55'17	
superior conj	7322 Sep 19 17:15	2°♍12'01	1°33'29	superior conj	7323 Sep 04 04:48	17°♌04'20	1°21'02
minimum elong	7322 Sep 19 15:33	2°♍02'43	1°33'21	minimum elong	7323 Sep 04 02:37	16°♌52'14	1°20'44
max. Earth dist.	7322 Sep 21 05:07	5°♍28'11	1.32440 AU	max. Earth dist.	7323 Sep 04 14:10	17°♌56'09	1.31865 AU
evening rise	7322 Sep 26 21:20	17°♍31'59			7323 Sep 10 02:50	0°♍	
	7322 Oct 03 05:49	0°♎		evening rise	7323 Sep 11 01:55	2°♍02'12	
desc. node	7322 Oct 13 11:22	17°♎23'37			7323 Sep 26 03:50	0°♎	
	7322 Oct 22 12:47	0°♏		desc. node	7323 Sep 30 08:26	6°♎19'29	
evening max el	7322 Oct 29 15:52	7°♏49'55	27°27'15	evening max el	7323 Oct 11 21:13	20°♎09'39	27°01'25
retrograde	7322 Nov 12 10:00	15°♏05'44		retrograde	7323 Oct 25 18:42	27°♎20'28	
evening set	7322 Nov 19 13:07	12°♏37'35		evening set	7323 Nov 01 18:25	25°♎12'06	
min. Earth dist.	7322 Nov 23 05:12	9°♏36'55	0.62729 AU	min. Earth dist.	7323 Nov 05 11:44	22°♎31'50	0.60714 AU
inferior conj	7322 Nov 26 01:05	6°♏54'21	-2°58'11	inferior conj	7323 Nov 08 15:23	19°♎52'19	-4°04'02
minimum elong	7322 Nov 26 06:34	6°♏41'10	2°56'07	minimum elong	7323 Nov 08 22:18	19°♎37'41	4°01'59
morning rise	7322 Dec 03 01:59	1°♏45'09		morning rise	7323 Nov 16 04:27	15°♎03'26	
direct	7322 Dec 05 09:48	1°♏20'19		direct	7323 Nov 18 10:08	14°♎43'41	
asc. node	7322 Dec 05 06:21	1°♏20'25		asc. node	7323 Nov 22 03:23	15°♎40'51	
morning max el	7322 Dec 12 02:48	4°♏46'33	17°48'32	morning max el	7323 Nov 25 17:02	18°♎21'34	18°00'57
morning set	7322 Dec 28 03:30	29°♏34'33			7323 Dec 04 02:24	0°♏	
	7322 Dec 28 09:16	0°♐		morning set	7323 Dec 11 09:19	13°♏07'00	
					7323 Dec 20 15:14	0°♐	
superior conj	7323 Jan 08 17:56	19°♐38'15	0°05'02	superior conj	7323 Dec 21 09:51	1°♐22'25	0°42'26
minimum elong	7323 Jan 08 18:27	19°♐40'22	0°05'03	minimum elong	7323 Dec 21 12:59	1°♐36'17	0°42'05
behind sun begin	7323 Jan 08 09:45	19°♐03'56		desc. node	7323 Dec 27 07:34	11°♐33'55	
behind sun end	7323 Jan 09 03:08	20°♐16'44		max. Earth dist.	7323 Dec 29 00:31	14°♐25'19	1.42132 AU
desc. node	7323 Jan 09 10:33	20°♐47'41		evening rise	7324 Jan 03 16:31	23°♐38'55	
	7323 Jan 15 01:11	0°♑			7324 Jan 07 17:27	0°♑	
max. Earth dist.	7323 Jan 15 12:20	0°♑44'58	1.43833 AU		7324 Jan 28 13:02	0°♑	
evening rise	7323 Jan 23 16:49	13°♑39'44		evening max el	7324 Feb 05 17:34	9°♑37'30	22°30'48
	7323 Feb 03 12:05	0°♒		retrograde	7324 Feb 15 13:05	15°♑27'00	
evening max el	7323 Feb 22 23:48	25°♒57'57	21°14'05	asc. node	7324 Feb 18 02:34	14°♒53'26	
	7323 Feb 27 22:54	0°♓		evening set	7324 Feb 20 05:24	13°♒32'07	
asc. node	7323 Mar 03 05:31	1°♓05'21		inferior conj	7324 Feb 25 13:50	7°♒09'21	2°15'18
retrograde	7323 Mar 03 16:31	1°♓06'26		minimum elong	7324 Feb 25 11:33	7°♒17'17	2°14'38
	7323 Mar 07 03:23	30°♓♒		min. Earth dist.	7324 Feb 25 09:24	7°♒24'45	0.68329 AU
evening set	7323 Mar 07 21:49	29°♓26'37		morning rise	7324 Mar 01 17:33	0°♓59'51	
inferior conj	7323 Mar 13 05:22	23°♓12'12	2°48'02		7324 Mar 03 02:56	30°♓♓	
minimum elong	7323 Mar 13 03:11	23°♓19'45	2°47'33	direct	7324 Mar 06 08:43	29°♓03'59	
min. Earth dist.	7323 Mar 13 12:58	22°♓45'49	0.68098 AU		7324 Mar 09 20:48	0°♓	
morning rise	7323 Mar 18 08:22	16°♓58'44		morning max el	7324 Mar 15 12:33	4°♓25'24	21°54'58
direct	7323 Mar 23 13:43	14°♓41'16		desc. node	7324 Mar 24 07:03	14°♓53'33	
morning max el	7323 Apr 03 00:15	20°♓53'54	23°22'56		7324 Apr 03 23:37	0°♓	
desc. node	7323 Apr 07 10:03	25°♓46'39		morning set	7324 Apr 17 05:40	20°♓25'43	
	7323 Apr 10 19:43	0°♔		max. Earth dist.	7324 Apr 23 00:36	29°♓53'52	1.41418 AU
	7323 May 01 10:03	0°♕			7324 Apr 23 02:05	0°♕	
morning set	7323 May 08 00:23	10°♕48'23		superior conj	7324 Apr 30 17:44	13°♕07'12	-1°55'56
max. Earth dist.	7323 May 12 02:11	17°♕47'17	1.39224 AU	minimum elong	7324 Apr 30 23:02	13°♕30'35	1°55'35
	7323 May 18 21:20	0°♖			7324 May 10 01:17	0°♖	
superior conj	7323 May 19 16:08	1°♖27'10	-1°31'25	evening rise	7324 May 11 09:33	2°♖29'14	
minimum elong	7323 May 19 21:24	1°♖51'39	1°30'47				
evening rise	7323 May 29 01:42	19°♖24'48					



asc. node	7324 May 16 01:39	11° $\Pi$ 03'13		evening rise	7325 Apr 24 01:33	14° $\mathcal{B}$ 48'14	
evening max el	7324 May 27 14:26	28° $\Pi$ 15'33	18°13'25	asc. node	7325 May 02 22:42	0° $\Pi$ 09'34	
	7324 May 29 15:33	0° $\mathcal{B}$			7325 May 02 20:22	0° $\Pi$	
retrograde	7324 Jun 03 15:11	1° $\mathcal{B}$ 47'42		evening max el	7325 May 11 02:50	11° $\Pi$ 22'24	18°05'53
evening set	7324 Jun 06 00:39	1° $\mathcal{B}$ 23'49		retrograde	7325 May 17 14:47	14° $\Pi$ 43'41	
	7324 Jun 08 20:42	30° $\mathcal{R}$ $\Pi$		evening set	7325 May 20 07:33	14° $\Pi$ 08'26	
inferior conj	7324 Jun 13 02:33	26° $\Pi$ 39'28	1°58'01	inferior conj	7325 May 26 17:47	9° $\Pi$ 03'56	2°49'43
minimum elong	7324 Jun 13 05:41	26° $\Pi$ 32'35	1°57'00	minimum elong	7325 May 26 20:32	8° $\Pi$ 56'58	2°49'05
min. Earth dist.	7324 Jun 16 11:56	23° $\Pi$ 42'17	0.59469 AU	min. Earth dist.	7325 May 29 18:55	6° $\Pi$ 00'40	0.61709 AU
morning rise	7324 Jun 20 07:44	20° $\Pi$ 57'19		morning rise	7325 Jun 02 07:34	3° $\Pi$ 02'21	
desc. node	7324 Jun 20 06:26	20° $\Pi$ 59'13		desc. node	7325 Jun 07 03:27	0° $\Pi$ 51'47	
direct	7324 Jun 26 16:36	19° $\Pi$ 04'39		direct	7325 Jun 09 01:17	0° $\Pi$ 40'40	
morning max el	7324 Jul 11 01:28	26° $\Pi$ 56'09	27°32'35	morning max el	7325 Jun 23 05:43	8° $\Pi$ 41'02	27°54'51
	7324 Jul 13 23:21	0° $\mathcal{B}$			7325 Jul 09 15:05	0° $\mathcal{B}$	
	7324 Aug 03 04:26	0° $\Omega$			7325 Jul 26 07:42	0° $\Omega$	
morning set	7324 Aug 11 13:40	16° $\Omega$ 27'38		morning set	7325 Jul 26 16:04	0° $\Omega$ 42'44	
asc. node	7324 Aug 12 00:58	17° $\Omega$ 26'52		asc. node	7325 Jul 29 21:58	7° $\Omega$ 29'38	
	7324 Aug 17 19:58	0° $\mathcal{M}$		max. Earth dist.	7325 Aug 01 08:51	12° $\Omega$ 46'23	1.32068 AU
max. Earth dist.	7324 Aug 18 00:38	0° $\mathcal{M}$ 25'50	1.31741 AU				
				superior conj	7325 Aug 03 02:33	16° $\Omega$ 34'00	0°41'55
superior conj	7324 Aug 18 16:30	1° $\mathcal{M}$ 53'35	1°03'42	minimum elong	7325 Aug 03 00:48	16° $\Omega$ 24'21	0°41'30
minimum elong	7324 Aug 18 14:17	1° $\mathcal{M}$ 41'17	1°03'17		7325 Aug 09 05:54	0° $\mathcal{M}$	
evening rise	7324 Aug 25 10:50	16° $\mathcal{M}$ 42'37		evening rise	7325 Aug 09 22:05	1° $\mathcal{M}$ 26'52	
	7324 Aug 31 23:59	0° $\mathcal{A}$			7325 Aug 25 09:02	0° $\mathcal{A}$	
desc. node	7324 Sep 16 05:31	24° $\mathcal{A}$ 20'32		desc. node	7325 Sep 03 02:33	11° $\mathcal{A}$ 04'57	
	7324 Sep 21 02:59	0° $\mathcal{M}$		evening max el	7325 Sep 04 10:00	12° $\mathcal{A}$ 23'20	24°36'33
evening max el	7324 Sep 22 19:21	1° $\mathcal{M}$ 40'10	26°02'21	retrograde	7325 Sep 18 05:45	19° $\mathcal{A}$ 20'26	
retrograde	7324 Oct 06 18:00	8° $\mathcal{M}$ 45'11		evening set	7325 Sep 23 11:39	18° $\mathcal{A}$ 19'05	
evening set	7324 Oct 13 03:17	7° $\mathcal{M}$ 07'41		min. Earth dist.	7325 Sep 28 21:04	15° $\mathcal{A}$ 31'04	0.56740 AU
min. Earth dist.	7324 Oct 17 08:17	4° $\mathcal{M}$ 32'40	0.58635 AU	inferior conj	7325 Oct 01 13:11	13° $\mathcal{A}$ 48'41	-5°28'43
inferior conj	7324 Oct 20 12:18	2° $\mathcal{M}$ 13'13	-4°59'06	minimum elong	7325 Oct 01 14:45	13° $\mathcal{A}$ 46'10	5°28'38
minimum elong	7324 Oct 20 18:27	2° $\mathcal{M}$ 01'54	4°57'57	morning rise	7325 Oct 09 20:03	9° $\mathcal{A}$ 44'14	
	7324 Oct 23 16:37	30° $\mathcal{R}$ $\mathcal{A}$		direct	7325 Oct 12 10:36	9° $\mathcal{A}$ 25'34	
morning rise	7324 Oct 28 11:54	27° $\mathcal{A}$ 46'46		morning max el	7325 Oct 21 22:25	13° $\mathcal{A}$ 54'27	19°27'59
direct	7324 Oct 30 19:37	27° $\mathcal{A}$ 28'58		asc. node	7325 Oct 25 21:24	18° $\mathcal{A}$ 23'31	
	7324 Nov 06 08:27	0° $\mathcal{M}$			7325 Nov 02 04:23	0° $\mathcal{M}$	
morning max el	7324 Nov 08 00:45	1° $\mathcal{M}$ 27'30	18°33'33	morning set	7325 Nov 08 05:06	11° $\mathcal{M}$ 39'47	
asc. node	7324 Nov 08 00:24	1° $\mathcal{M}$ 26'41					
morning set	7324 Nov 24 03:08	27° $\mathcal{M}$ 12'24		superior conj	7325 Nov 16 05:16	27° $\mathcal{M}$ 40'24	1°29'08
	7324 Nov 25 13:46	0° $\mathcal{X}$		minimum elong	7325 Nov 16 07:51	27° $\mathcal{M}$ 53'08	1°28'59
					7325 Nov 17 09:54	0° $\mathcal{X}$	
superior conj	7324 Dec 02 23:20	14° $\mathcal{X}$ 07'55	1°10'30	max. Earth dist.	7325 Nov 22 13:40	9° $\mathcal{X}$ 44'40	1.37937 AU
minimum elong	7324 Dec 03 02:50	14° $\mathcal{X}$ 24'14	1°10'09	evening rise	7325 Nov 26 07:19	16° $\mathcal{X}$ 28'05	
max. Earth dist.	7324 Dec 10 08:03	27° $\mathcal{X}$ 24'23	1.40086 AU	desc. node	7325 Nov 30 01:37	22° $\mathcal{X}$ 57'28	
	7324 Dec 11 20:05	0° $\mathcal{Z}$			7325 Dec 04 08:09	0° $\mathcal{Z}$	
desc. node	7324 Dec 13 04:36	2° $\mathcal{Z}$ 18'27			7325 Dec 25 10:34	0° $\mathcal{A}$	
evening rise	7324 Dec 14 12:55	4° $\mathcal{Z}$ 34'18		evening max el	7325 Dec 31 21:17	7° $\mathcal{A}$ 06'59	25°07'47
	7324 Dec 30 21:59	0° $\mathcal{A}$		retrograde	7326 Jan 12 19:35	14° $\mathcal{A}$ 01'16	
evening max el	7325 Jan 18 08:08	23° $\mathcal{A}$ 20'49	23°50'54	evening set	7326 Jan 18 13:11	11° $\mathcal{A}$ 38'32	
retrograde	7325 Jan 29 06:28	29° $\mathcal{A}$ 46'56		asc. node	7326 Jan 21 20:41	8° $\mathcal{A}$ 08'11	
evening set	7325 Feb 03 11:02	27° $\mathcal{A}$ 37'26		min. Earth dist.	7326 Jan 23 00:34	6° $\mathcal{A}$ 39'48	0.67606 AU
asc. node	7325 Feb 03 23:37	27° $\mathcal{A}$ 09'27		inferior conj	7326 Jan 24 03:42	5° $\mathcal{A}$ 11'17	0°45'28
inferior conj	7325 Feb 08 21:53	21° $\mathcal{A}$ 10'12	1°34'15	minimum elong	7326 Jan 24 02:36	5° $\mathcal{A}$ 14'50	0°45'06
minimum elong	7325 Feb 08 19:57	21° $\mathcal{A}$ 16'47	1°33'36		7326 Jan 28 16:48	30° $\mathcal{R}$ $\mathcal{Z}$	
min. Earth dist.	7325 Feb 08 06:03	22° $\mathcal{A}$ 04'07	0.68160 AU	morning rise	7326 Jan 29 16:18	29° $\mathcal{Z}$ 14'53	
morning rise	7325 Feb 14 04:51	15° $\mathcal{A}$ 06'19		direct	7326 Feb 02 05:20	28° $\mathcal{Z}$ 02'40	
direct	7325 Feb 18 06:24	13° $\mathcal{A}$ 32'58			7326 Feb 07 01:56	0° $\mathcal{A}$	
morning max el	7325 Feb 26 07:14	18° $\mathcal{A}$ 08'08	20°35'51	morning max el	7326 Feb 09 09:59	2° $\mathcal{A}$ 02'49	19°30'07
	7325 Mar 07 22:26	0° $\mathcal{H}$		greatest brilliancy	7326 Feb 22 07:13	19° $\mathcal{A}$ 00'33	-0.7m
desc. node	7325 Mar 11 04:03	4° $\mathcal{H}$ 33'30		desc. node	7326 Feb 26 01:01	24° $\mathcal{A}$ 37'14	
morning set	7325 Mar 27 10:12	28° $\mathcal{H}$ 57'11			7326 Mar 01 13:51	0° $\mathcal{H}$	
	7325 Mar 28 02:21	0° $\mathcal{Y}$		morning set	7326 Mar 06 07:50	7° $\mathcal{H}$ 17'37	
max. Earth dist.	7325 Apr 05 06:29	12° $\mathcal{Y}$ 57'08	1.43323 AU	max. Earth dist.	7326 Mar 18 19:51	26° $\mathcal{H}$ 47'41	1.44699 AU
					7326 Mar 20 20:21	0° $\mathcal{Y}$	
superior conj	7325 Apr 11 20:11	23° $\mathcal{Y}$ 44'34	-2°09'53				
minimum elong	7325 Apr 11 22:21	23° $\mathcal{Y}$ 53'33	2°09'53	superior conj	7326 Mar 22 21:42	3° $\mathcal{Y}$ 16'59	-2°07'15
	7325 Apr 15 13:10	0° $\mathcal{B}$		minimum elong	7326 Mar 22 17:19	2° $\mathcal{Y}$ 59'27	2°07'06

evening rise	7326 Apr 05 21:09	26° $\Upsilon$ 12'40		superior conj	7327 Mar 02 05:01	12° $\Upsilon$ 06'25	-1°44'31
	7326 Apr 08 03:24	0° $\mathcal{B}$		minimum elong	7327 Mar 01 19:39	11° $\Upsilon$ 29'41	1°43'41
asc. node	7326 Apr 19 19:46	18° $\mathcal{B}$ 45'50			7327 Mar 13 13:16	0° $\Upsilon$	
evening max el	7326 Apr 24 15:57	24° $\mathcal{B}$ 44'27	18°17'08	evening rise	7327 Mar 17 17:28	6° $\Upsilon$ 39'40	
retrograde	7326 May 01 01:27	28° $\mathcal{B}$ 09'27		greatest brilliancy	7327 Mar 25 13:20	19° $\Upsilon$ 10'32	-0.9m
evening set	7326 May 04 01:06	27° $\mathcal{B}$ 21'23			7327 Apr 01 14:35	0° $\mathcal{B}$	
inferior conj	7326 May 09 23:46	21° $\mathcal{B}$ 58'17	3°17'23	asc. node	7327 Apr 06 16:49	6° $\mathcal{B}$ 43'03	
minimum elong	7326 May 10 01:14	21° $\mathcal{B}$ 54'07	3°17'10	evening max el	7327 Apr 08 03:07	8° $\mathcal{B}$ 15'43	18°46'28
min. Earth dist.	7326 May 12 11:07	19° $\mathcal{B}$ 10'55	0.63794 AU	retrograde	7327 Apr 14 19:07	11° $\mathcal{B}$ 57'19	
morning rise	7326 May 16 00:15	15° $\mathcal{B}$ 46'04		evening set	7327 Apr 18 01:49	10° $\mathcal{B}$ 55'37	
direct	7326 May 22 18:42	13° $\mathcal{B}$ 05'12		inferior conj	7327 Apr 23 16:38	5° $\mathcal{B}$ 15'39	3°26'14
desc. node	7326 May 25 00:29	13° $\mathcal{B}$ 21'01		minimum elong	7327 Apr 23 16:42	5° $\mathcal{B}$ 15'29	3°26'10
morning max el	7326 Jun 05 14:26	21° $\mathcal{B}$ 05'46	27°39'36	min. Earth dist.	7327 Apr 25 12:36	2° $\mathcal{B}$ 59'47	0.65549 AU
	7326 Jun 13 07:23	0° $\Pi$			7327 Apr 28 04:52	30° $\mathcal{R}\Upsilon$	
	7326 Jul 02 17:57	0° $\mathcal{E}$		morning rise	7327 Apr 29 07:00	28° $\Upsilon$ 59'06	
morning set	7326 Jul 10 11:07	14° $\mathcal{E}$ 33'09		direct	7327 May 05 19:43	26° $\Upsilon$ 11'14	
max. Earth dist.	7326 Jul 15 10:49	24° $\mathcal{E}$ 45'35	1.32858 AU	desc. node	7327 May 11 21:29	28° $\Upsilon$ 07'49	
asc. node	7326 Jul 16 18:59	27° $\mathcal{E}$ 35'35			7327 May 14 14:23	0° $\mathcal{B}$	
	7326 Jul 17 22:02	0° $\mathcal{Q}$		morning max el	7327 May 19 00:53	4° $\mathcal{B}$ 00'22	26°51'52
					7327 Jun 07 17:38	0° $\Pi$	
superior conj	7326 Jul 18 09:04	0° $\mathcal{Q}$ 59'11	0°16'12	morning set	7327 Jun 23 19:49	27° $\Pi$ 50'59	
minimum elong	7326 Jul 18 08:17	0° $\mathcal{Q}$ 54'58	0°15'57		7327 Jun 24 22:39	0° $\mathcal{E}$	
behind sun begin	7326 Jul 18 07:56	0° $\mathcal{Q}$ 53'05		max. Earth dist.	7327 Jun 28 02:59	6° $\mathcal{E}$ 16'21	1.34127 AU
behind sun end	7326 Jul 18 08:38	0° $\mathcal{Q}$ 56'52					
evening rise	7326 Jul 25 09:41	16° $\mathcal{Q}$ 08'11		superior conj	7327 Jul 02 09:54	15° $\mathcal{E}$ 03'30	-0°12'45
	7326 Aug 01 06:25	0° $\mathcal{M}$		minimum elong	7327 Jul 02 10:35	15° $\mathcal{E}$ 07'08	0°12'41
evening max el	7326 Aug 16 21:38	22° $\mathcal{M}$ 39'01	22°58'10	behind sun begin	7327 Jul 02 07:04	14° $\mathcal{E}$ 48'44	
desc. node	7326 Aug 20 23:36	26° $\mathcal{M}$ 03'41		behind sun end	7327 Jul 02 14:07	15° $\mathcal{E}$ 25'33	
retrograde	7326 Aug 30 05:08	29° $\mathcal{M}$ 18'16		asc. node	7327 Jul 03 16:00	17° $\mathcal{E}$ 41'05	
evening set	7326 Sep 02 22:44	28° $\mathcal{M}$ 47'45			7327 Jul 09 11:56	0° $\mathcal{Q}$	
min. Earth dist.	7326 Sep 10 06:04	25° $\mathcal{M}$ 29'45	0.55331 AU	evening rise	7327 Jul 09 19:49	0° $\mathcal{Q}$ 41'16	
inferior conj	7326 Sep 11 18:42	24° $\mathcal{M}$ 36'59	-5°14'36		7327 Jul 26 19:52	0° $\mathcal{M}$	
minimum elong	7326 Sep 11 13:04	24° $\mathcal{M}$ 45'07	5°13'54	evening max el	7327 Jul 29 15:09	3° $\mathcal{M}$ 03'15	21°23'38
morning rise	7326 Sep 20 05:33	20° $\mathcal{M}$ 47'20		desc. node	7327 Aug 07 20:40	8° $\mathcal{M}$ 44'10	
direct	7326 Sep 23 06:36	20° $\mathcal{M}$ 25'37		retrograde	7327 Aug 10 19:09	9° $\mathcal{M}$ 05'00	
morning max el	7326 Oct 04 07:39	25° $\mathcal{M}$ 34'56	20°44'43	evening set	7327 Aug 13 05:49	8° $\mathcal{M}$ 51'15	
	7326 Oct 08 08:24	0° $\mathcal{L}$		inferior conj	7327 Aug 22 12:21	4° $\mathcal{M}$ 52'49	-4°06'15
asc. node	7326 Oct 12 18:24	6° $\mathcal{L}$ 16'23		minimum elong	7327 Aug 22 02:59	5° $\mathcal{M}$ 05'57	4°03'43
morning set	7326 Oct 23 12:23	26° $\mathcal{L}$ 21'17		min. Earth dist.	7327 Aug 22 15:14	4° $\mathcal{M}$ 48'45	0.54717 AU
	7326 Oct 25 06:37	0° $\mathcal{M}$		morning rise	7327 Aug 31 01:01	1° $\mathcal{M}$ 00'26	
				direct	7327 Sep 03 15:21	0° $\mathcal{M}$ 32'29	
superior conj	7326 Oct 30 23:04	11° $\mathcal{M}$ 47'13	1°39'16	morning max el	7327 Sep 16 04:59	6° $\mathcal{M}$ 29'26	22°20'20
minimum elong	7326 Oct 31 00:19	11° $\mathcal{M}$ 53'32	1°39'17	asc. node	7327 Sep 29 15:24	24° $\mathcal{M}$ 51'56	
max. Earth dist.	7326 Nov 04 21:55	21° $\mathcal{M}$ 41'22	1.35923 AU		7327 Oct 02 10:08	0° $\mathcal{L}$	
evening rise	7326 Nov 08 21:02	29° $\mathcal{M}$ 13'49		morning set	7327 Oct 07 22:47	11° $\mathcal{L}$ 09'58	
	7326 Nov 09 07:01	0° $\mathcal{X}$					
desc. node	7326 Nov 16 22:38	13° $\mathcal{X}$ 26'54		superior conj	7327 Oct 15 01:07	26° $\mathcal{L}$ 16'58	1°42'00
	7326 Nov 27 13:33	0° $\mathcal{Z}$		minimum elong	7327 Oct 15 01:00	26° $\mathcal{L}$ 16'21	1°42'03
evening max el	7326 Dec 14 10:13	20° $\mathcal{Z}$ 52'19	26°14'17		7327 Oct 16 19:31	0° $\mathcal{M}$	
retrograde	7326 Dec 27 03:47	28° $\mathcal{Z}$ 04'32		max. Earth dist.	7327 Oct 18 13:02	3° $\mathcal{M}$ 35'14	1.34232 AU
evening set	7327 Jan 02 10:08	25° $\mathcal{Z}$ 31'41		evening rise	7327 Oct 23 02:06	12° $\mathcal{M}$ 41'01	
min. Earth dist.	7327 Jan 06 14:47	21° $\mathcal{Z}$ 07'47	0.66681 AU		7327 Nov 01 14:38	0° $\mathcal{X}$	
inferior conj	7327 Jan 08 05:22	19° $\mathcal{Z}$ 09'24	-0°10'24	desc. node	7327 Nov 03 19:40	3° $\mathcal{X}$ 40'54	
minimum elong	7327 Jan 08 05:38	19° $\mathcal{Z}$ 08'34	0°10'11		7327 Nov 22 16:11	0° $\mathcal{Z}$	
transit middle	7327 Jan 08 05:38	19° $\mathcal{Z}$ 08'34	0°10'11	evening max el	7327 Nov 26 23:08	4° $\mathcal{Z}$ 28'58	27°03'07
transit begin	7327 Jan 08 03:25	19° $\mathcal{Z}$ 15'24		retrograde	7327 Dec 10 06:25	11° $\mathcal{Z}$ 48'37	
transit end	7327 Jan 08 07:52	19° $\mathcal{Z}$ 01'45		evening set	7327 Dec 16 23:49	9° $\mathcal{Z}$ 11'11	
asc. node	7327 Jan 08 17:43	18° $\mathcal{Z}$ 31'37		min. Earth dist.	7327 Dec 20 22:28	5° $\mathcal{Z}$ 21'44	0.65398 AU
morning rise	7327 Jan 14 01:50	13° $\mathcal{Z}$ 22'38		inferior conj	7327 Dec 23 00:43	2° $\mathcal{Z}$ 59'26	-1°12'28
direct	7327 Jan 17 03:55	12° $\mathcal{Z}$ 28'36		minimum elong	7327 Dec 23 02:51	2° $\mathcal{Z}$ 53'25	1°11'28
morning max el	7327 Jan 23 20:01	16° $\mathcal{Z}$ 06'12	18°39'58		7327 Dec 25 19:43	30° $\mathcal{R}\mathcal{X}$	
	7327 Feb 03 07:21	0° $\approx$		asc. node	7327 Dec 26 14:46	29° $\mathcal{X}$ 15'57	
desc. node	7327 Feb 12 21:58	14° $\approx$ 58'21		morning rise	7327 Dec 29 07:05	27° $\mathcal{X}$ 24'43	
morning set	7327 Feb 13 22:52	16° $\approx$ 36'20		direct	7328 Jan 01 00:08	26° $\mathcal{X}$ 45'07	
	7327 Feb 22 11:29	0° $\mathcal{H}$			7328 Jan 07 06:27	0° $\mathcal{Z}$	
max. Earth dist.	7327 Mar 01 13:43	11° $\mathcal{H}$ 06'26	1.45393 AU	morning max el	7328 Jan 07 11:02	0° $\mathcal{Z}$ 11'12	18°06'18
				morning set	7328 Jan 25 19:03	27° $\mathcal{Z}$ 22'46	

	7328 Jan 27 09:30	0°♊			7329 Jan 18 23:17	0°♊	
desc. node	7328 Jan 30 18:56	5°♊31'20					
			superior conj		7329 Jan 19 11:01	0°♊47'56 -0°20'00	
superior conj	7328 Feb 09 11:20	21°♊00'28 -1°05'22	minimum elong		7329 Jan 19 08:48	0°♊38'53 0°19'35	
minimum elong	7328 Feb 09 03:41	20°♊30'14 1°04'21	max. Earth dist.		7329 Jan 25 03:29	9°♊57'21 1.44580 AU	
max. Earth dist.	7328 Feb 12 08:59	25°♊34'33 1.45348 AU	evening rise		7329 Feb 04 03:42	25°♊34'49	
	7328 Feb 15 04:48	0°♋			7329 Feb 07 01:04	0°♋	
evening rise	7328 Feb 25 16:19	16°♋17'28			7329 Feb 27 18:56	0°♋	
	7328 Mar 05 13:35	0°♋	evening max el		7329 Mar 04 12:15	5°♋28'31 20°33'43	
greatest brilliancy	7328 Mar 09 14:11	6°♋05'54 -0.7m	asc. node		7329 Mar 10 10:58	9°♋49'11	
evening max el	7328 Mar 21 10:17	21°♋51'07 19°32'45	retrograde		7329 Mar 12 14:51	10°♋13'24	
asc. node	7328 Mar 23 13:53	23°♋48'51	evening set		7329 Mar 16 14:24	8°♋42'24	
retrograde	7328 Mar 28 16:25	26°♋00'13	inferior conj		7329 Mar 21 22:17	2°♋34'33 3°02'45	
evening set	7328 Apr 01 06:58	24°♋44'10	minimum elong		7329 Mar 21 20:23	2°♋41'06 3°02'24	
inferior conj	7328 Apr 06 17:03	18°♋49'17 3°20'24	min. Earth dist.		7329 Mar 22 13:22	1°♋42'52 0.67788 AU	
minimum elong	7328 Apr 06 15:56	18°♋52'58 3°20'15			7329 Mar 23 20:01	30°♋♋	
min. Earth dist.	7328 Apr 07 22:02	17°♋13'45 0.66887 AU	morning rise		7329 Mar 27 02:08	26°♋19'29	
morning rise	7328 Apr 12 00:34	12°♋32'17	direct		7329 Apr 01 15:41	23°♋50'44	
direct	7328 Apr 18 03:04	9°♋49'18			7329 Apr 12 06:59	0°♋	
desc. node	7328 Apr 27 18:27	14°♋39'16	morning max el		7329 Apr 12 19:30	0°♋31'15 24°14'26	
morning max el	7328 Apr 30 10:42	17°♋11'42 25°40'09	desc. node		7329 Apr 14 15:27	2°♋27'00	
	7328 May 11 02:55	0°♌			7329 May 05 00:49	0°♌	
	7328 May 30 16:40	0°♌	morning set		7329 May 18 12:55	22°♌00'49	
morning set	7328 Jun 05 14:11	10°♌25'13	max. Earth dist.		7329 May 22 05:00	28°♌29'38 1.37946 AU	
max. Earth dist.	7328 Jun 09 07:57	17°♌23'16 1.35854 AU			7329 May 23 01:02	0°♌	
			superior conj		7329 May 29 07:16	11°♌40'07 -1°14'38	
superior conj	7328 Jun 15 02:26	28°♌40'18 -0°43'39	minimum elong		7329 May 29 11:42	12°♌01'25 1°14'01	
minimum elong	7328 Jun 15 04:59	28°♌53'07 0°43'14	asc. node		7329 Jun 06 10:05	27°♌34'57	
	7328 Jun 15 18:16	0°♍	evening rise		7329 Jun 07 02:41	28°♌57'00	
asc. node	7328 Jun 19 13:02	7°♍42'29			7329 Jun 07 15:27	0°♍	
evening rise	7328 Jun 23 02:20	15°♍00'07	evening max el		7329 Jun 23 15:35	25°♍50'15 19°05'05	
	7328 Jun 30 20:19	0°♎			7329 Jun 30 14:45	0°♎	
evening max el	7328 Jul 10 21:01	14°♎04'52 20°04'26	retrograde		7329 Jul 02 11:31	0°♎11'21	
retrograde	7328 Jul 21 09:05	19°♎14'56	evening set		7329 Jul 04 10:15	29°♍59'32	
evening set	7328 Jul 23 06:38	19°♎05'33			7329 Jul 04 09:19	30°♋♍	
desc. node	7328 Jul 24 17:43	18°♎46'13	desc. node		7329 Jul 11 14:46	26°♍33'52	
inferior conj	7328 Aug 01 08:02	15°♎06'32 -2°17'24	inferior conj		7329 Jul 12 18:45	25°♍46'29 -0°21'09	
minimum elong	7328 Aug 01 01:42	15°♎16'00 2°15'09	minimum elong		7329 Jul 12 17:51	25°♍48'02 0°20'54	
min. Earth dist.	7328 Aug 03 02:35	14°♎02'56 0.55069 AU	min. Earth dist.		7329 Jul 15 16:55	23°♍47'00 0.56324 AU	
morning rise	7328 Aug 09 19:12	10°♎51'05	morning rise		7329 Jul 20 22:20	20°♍55'44	
direct	7328 Aug 14 03:12	10°♎10'10	direct		7329 Jul 26 03:07	19°♍52'35	
morning max el	7328 Aug 27 18:55	16°♎52'29 24°05'25	morning max el		7329 Aug 09 08:10	27°♍09'41 25°45'02	
	7328 Sep 07 09:28	0°♏			7329 Aug 12 02:18	0°♎	
asc. node	7328 Sep 15 12:25	13°♏59'50			7329 Aug 31 14:51	0°♏	
morning set	7328 Sep 21 10:29	26°♏00'58	asc. node		7329 Sep 02 09:25	3°♏31'01	
	7328 Sep 23 07:06	0°♐	morning set		7329 Sep 05 21:48	10°♏48'32	
			superior conj		7329 Sep 12 19:15	25°♏52'02 1°28'50	
superior conj	7328 Sep 28 08:38	11°♐01'17 1°38'16	minimum elong		7329 Sep 12 17:17	25°♏41'14 1°28'37	
minimum elong	7328 Sep 28 07:24	10°♐54'39 1°38'14	max. Earth dist.		7329 Sep 13 19:26	28°♏05'15 1.32144 AU	
max. Earth dist.	7328 Sep 30 12:47	15°♐42'49 1.32965 AU			7329 Sep 14 16:21	0°♐	
evening rise	7328 Oct 05 18:48	26°♐40'08	evening rise		7329 Sep 19 19:49	11°♐01'03	
	7328 Oct 07 10:50	0°♑			7329 Sep 29 16:25	0°♑	
desc. node	7328 Oct 20 16:45	23°♑32'40	desc. node		7329 Oct 07 13:50	12°♑52'10	
	7328 Oct 24 22:32	0°♒			7329 Oct 21 06:48	0°♒	
evening max el	7328 Nov 08 11:08	17°♒46'37 27°27'10	evening max el		7329 Oct 21 19:49	0°♒31'08 27°20'32	
retrograde	7328 Nov 22 02:42	25°♒05'04	retrograde		7329 Nov 04 15:33	7°♒44'10	
evening set	7328 Nov 29 03:41	22°♒31'01	evening set		7329 Nov 11 18:19	5°♒23'25	
min. Earth dist.	7328 Dec 02 21:34	19°♒13'43 0.63785 AU	min. Earth dist.		7329 Nov 15 10:17	2°♒32'39 0.61891 AU	
inferior conj	7328 Dec 05 11:15	16°♒35'42 -2°19'00	inferior conj		7329 Nov 18 09:52	29°♑49'53 -3°26'47	
minimum elong	7328 Dec 05 15:31	16°♒24'43 2°17'15	minimum elong		7329 Nov 18 16:07	29°♑35'38 3°24'37	
morning rise	7328 Dec 12 05:04	11°♒15'57			7329 Nov 18 05:27	30°♑♑	
asc. node	7328 Dec 12 11:47	11°♒09'42	morning rise		7329 Nov 25 15:58	24°♑48'36	
direct	7328 Dec 14 15:26	10°♒46'47	direct		7329 Nov 27 22:30	24°♑26'15	
morning max el	7328 Dec 21 04:12	14°♒10'44 17°49'50	asc. node		7329 Nov 29 08:48	24°♑35'22	
	7329 Jan 01 05:10	0°♓	morning max el		7329 Dec 04 20:23	27°♑56'26 17°51'27	
morning set	7329 Jan 06 18:40	9°♓29'32					
desc. node	7329 Jan 16 15:56	26°♓12'22					

	7329 Dec 06 17:33	0°♊		superior conj	7330 Dec 13 13:59	24°♊01'35	0°55'33
morning set	7329 Dec 20 15:15	22°♊36'05		minimum elong	7330 Dec 13 17:29	24°♊17'27	0°55'08
	7329 Dec 24 18:07	0°♋			7330 Dec 16 22:24	0°♋	
				max. Earth dist.	7330 Dec 21 05:22	7°♋23'59	1.41285 AU
superior conj	7329 Dec 31 12:20	11°♋49'49	0°21'58	desc. node	7330 Dec 21 09:59	7°♋43'30	
minimum elong	7329 Dec 31 14:17	11°♋58'11	0°21'45	evening rise	7330 Dec 26 02:46	15°♋30'41	
desc. node	7330 Jan 03 12:59	16°♋57'42			7331 Jan 04 08:34	0°♌	
max. Earth dist.	7330 Jan 07 18:55	23°♋59'09	1.43170 AU		7331 Jan 26 09:44	0°♌	
	7330 Jan 11 12:29	0°♍		evening max el	7331 Jan 29 00:54	2°♌48'19	23°04'49
evening rise	7330 Jan 14 18:58	5°♍09'37		retrograde	7331 Feb 08 07:50	8°♌54'12	
	7330 Jan 31 09:32	0°♍		asc. node	7331 Feb 12 05:03	7°♌38'30	
evening max el	7330 Feb 15 08:49	19°♍07'33	21°45'56	evening set	7331 Feb 13 05:20	6°♌52'43	
retrograde	7330 Feb 24 12:28	24°♍33'01		min. Earth dist.	7331 Feb 18 05:11	1°♌00'02	0.68303 AU
asc. node	7330 Feb 25 08:00	24°♍29'35		inferior conj	7331 Feb 18 14:37	0°♌27'28	1°58'51
evening set	7330 Feb 28 22:24	22°♍46'40		minimum elong	7331 Feb 18 12:25	0°♌35'03	1°58'11
inferior conj	7330 Mar 06 06:08	16°♍28'29	2°35'12		7331 Feb 18 22:34	30°♌	
minimum elong	7330 Mar 06 03:51	16°♍36'25	2°34'38	morning rise	7331 Feb 23 19:26	24°♌20'25	
min. Earth dist.	7330 Mar 06 08:30	16°♍20'16	0.68253 AU	direct	7331 Feb 28 04:39	22°♌34'23	
morning rise	7330 Mar 11 09:09	10°♍16'47		morning max el	7331 Mar 08 20:23	27°♌34'54	21°20'01
direct	7330 Mar 16 08:32	8°♍08'12			7331 Mar 11 02:48	0°♍	
morning max el	7330 Mar 26 05:34	13°♍58'13	22°44'52	desc. node	7331 Mar 19 09:25	10°♍32'10	
desc. node	7330 Apr 01 12:26	21°♍09'54			7331 Apr 01 17:50	0°♎	
	7330 Apr 08 03:57	0°♎		morning set	7331 Apr 09 04:10	11°♎30'17	
	7330 Apr 27 23:19	0°♏		max. Earth dist.	7331 Apr 16 03:30	22°♎43'33	1.42283 AU
morning set	7330 Apr 29 10:28	2°♏24'01			7331 Apr 20 12:20	0°♏	
max. Earth dist.	7330 May 04 01:40	10°♏10'33	1.40184 AU				
				superior conj	7331 Apr 23 12:25	5°♏07'18	-2°03'30
superior conj	7330 May 11 20:13	23°♏53'02	-1°42'43	minimum elong	7331 Apr 23 16:52	5°♏26'28	2°03'18
minimum elong	7330 May 12 01:47	24°♏18'20	1°42'11	evening rise	7331 May 04 19:24	25°♏10'49	
	7330 May 15 04:00	0°♐			7331 May 07 11:19	0°♐	
evening rise	7330 May 21 17:42	12°♐23'58		asc. node	7331 May 11 04:10	6°♐34'22	
asc. node	7330 May 24 07:09	17°♐14'12		evening max el	7331 May 21 06:22	21°♐08'10	18°07'45
	7330 May 31 12:51	0°♑		retrograde	7331 May 28 00:29	24°♐34'11	
evening max el	7330 Jun 06 19:57	8°♑14'30	18°26'22	evening set	7331 May 30 13:00	24°♐05'49	
retrograde	7330 Jun 14 09:08	12°♑00'10		inferior conj	7331 Jun 06 07:44	19°♐12'34	2°23'12
evening set	7330 Jun 16 14:20	11°♑41'38		minimum elong	7331 Jun 06 10:53	19°♐05'11	2°22'19
inferior conj	7330 Jun 24 02:51	7°♑08'39	1°15'26	min. Earth dist.	7331 Jun 09 14:31	16°♐09'46	0.60427 AU
minimum elong	7330 Jun 24 05:19	7°♑03'40	1°14'31	morning rise	7331 Jun 13 06:11	13°♐20'31	
min. Earth dist.	7330 Jun 27 12:09	4°♑26'32	0.58223 AU	desc. node	7331 Jun 15 08:49	12°♐12'40	
desc. node	7330 Jun 28 11:48	3°♑42'43		direct	7331 Jun 19 19:36	11°♐14'49	
morning rise	7330 Jul 01 17:01	1°♑42'40		morning max el	7331 Jul 04 03:29	19°♐11'33	27°46'47
direct	7330 Jul 07 17:03	0°♑09'14			7331 Jul 13 07:13	0°♑	
morning max el	7330 Jul 22 02:26	7°♑50'30	27°02'46		7331 Jul 31 13:56	0°♒	
	7330 Aug 07 18:50	0°♒		morning set	7331 Aug 05 12:37	9°♒54'16	
asc. node	7330 Aug 20 06:27	23°♒18'56		asc. node	7331 Aug 07 03:28	13°♒17'55	
morning set	7330 Aug 21 07:06	25°♒28'05		max. Earth dist.	7331 Aug 11 15:47	23°♒03'44	1.31823 AU
	7330 Aug 23 10:00	0°♓					
				superior conj	7331 Aug 12 18:15	25°♒29'37	0°54'58
superior conj	7330 Aug 28 07:03	10°♓43'21	1°14'15	minimum elong	7331 Aug 12 16:10	25°♒18'06	0°54'32
minimum elong	7330 Aug 28 04:47	10°♓30'49	1°13'52		7331 Aug 14 19:11	0°♓	
max. Earth dist.	7330 Aug 28 05:43	10°♓36'00	1.31764 AU	evening rise	7331 Aug 19 12:38	10°♓18'59	
evening rise	7330 Sep 04 02:30	25°♓36'12			7331 Aug 29 12:33	0°♔	
	7330 Sep 06 04:59	0°♔		desc. node	7331 Sep 11 07:56	18°♔58'27	
	7330 Sep 23 09:59	0°♕		evening max el	7331 Sep 15 16:48	23°♔38'44	25°28'21
desc. node	7330 Sep 24 10:53	1°♕26'40			7331 Sep 25 09:40	0°♕	
evening max el	7330 Oct 03 22:18	12°♕30'05	26°40'04	retrograde	7331 Sep 29 14:57	0°♕41'45	
retrograde	7330 Oct 17 20:05	19°♕37'50			7331 Oct 03 20:06	30°♕	
evening set	7330 Oct 24 15:26	17°♕41'20		evening set	7331 Oct 05 14:15	29°♕19'08	
min. Earth dist.	7330 Oct 28 12:03	15°♕05'42	0.59827 AU	min. Earth dist.	7331 Oct 10 04:44	26°♕41'03	0.57783 AU
inferior conj	7330 Oct 31 17:07	12°♕32'40	-4°29'28	inferior conj	7331 Oct 13 05:42	24°♕35'09	-5°15'52
minimum elong	7330 Nov 01 00:05	12°♕18'47	4°27'43	minimum elong	7331 Oct 13 10:25	24°♕26'58	5°15'16
morning rise	7330 Nov 08 10:58	7°♕53'14		morning rise	7331 Oct 21 08:55	20°♕18'50	
direct	7330 Nov 10 17:09	7°♕34'32		direct	7331 Oct 23 18:53	20°♕01'04	
asc. node	7330 Nov 16 05:50	9°♕33'12		morning max el	7331 Nov 01 12:08	24°♕11'03	18°54'05
morning max el	7330 Nov 18 08:12	11°♕19'41	18°12'21	asc. node	7331 Nov 03 02:52	25°♕51'40	
	7330 Nov 30 16:38	0°♖			7331 Nov 06 08:38	0°♕	
morning set	7330 Dec 04 02:39	6°♖23'48		morning set	7331 Nov 18 00:20	20°♕39'53	

	7331 Nov 22 18:13	0°♊		superior conj	7332 Nov 08 22:36	20°♎58'04	1°34'24
				minimum elong	7332 Nov 09 00:39	21°♎08'16	1°34'20
superior conj	7331 Nov 26 11:07	7°♊09'31	1°19'30		7332 Nov 13 13:27	0°♊	
minimum elong	7331 Nov 26 14:20	7°♊24'50	1°19'14	max. Earth dist.	7332 Nov 14 17:00	2°♊10'36	1.37047 AU
max. Earth dist.	7331 Dec 03 11:20	20°♊04'46	1.39159 AU	evening rise	7332 Nov 18 11:46	9°♊08'50	
evening rise	7331 Dec 07 08:39	26°♊51'30		desc. node	7332 Nov 24 04:02	19°♊02'07	
desc. node	7331 Dec 08 07:01	28°♊26'32			7332 Nov 30 22:52	0°♊	
	7331 Dec 09 05:13	0°♊			7332 Dec 23 19:42	0°♊	
	7331 Dec 28 22:31	0°♊		evening max el	7332 Dec 24 03:25	0°♊18'58	25°37'52
evening max el	7332 Jan 11 14:26	16°♊32'31	24°24'24	retrograde	7333 Jan 05 10:54	7°♊22'40	
retrograde	7332 Jan 22 23:40	23°♊12'42		evening set	7333 Jan 11 09:51	4°♊55'20	
evening set	7332 Jan 28 09:42	20°♊57'09		asc. node	7333 Jan 15 23:08	29°♊55'54	
asc. node	7332 Jan 30 02:05	19°♊18'44			7333 Jan 15 21:50	30°♊♊	
min. Earth dist.	7332 Feb 02 01:14	15°♊38'27	0.67964 AU	min. Earth dist.	7333 Jan 15 18:19	0°♊11'06	0.67251 AU
inferior conj	7332 Feb 02 21:56	14°♊29'02	1°14'29	inferior conj	7333 Jan 17 02:14	28°♊29'21	0°22'37
minimum elong	7332 Feb 02 20:18	14°♊34'32	1°13'55	minimum elong	7333 Jan 17 01:39	28°♊31'11	0°22'27
morning rise	7332 Feb 08 07:01	8°♊28'05		morning rise	7333 Jan 22 17:53	22°♊36'30	
direct	7332 Feb 12 02:57	7°♊04'11		direct	7333 Jan 26 02:01	21°♊32'25	
morning max el	7332 Feb 19 18:31	11°♊23'25	20°06'06	morning max el	7333 Feb 02 00:28	25°♊21'52	19°06'45
desc. node	7332 Mar 05 06:24	0°♋23'16			7333 Feb 06 01:20	0°♋	
	7332 Mar 05 00:03	0°♋		greatest brilliancy	7333 Feb 15 15:50	13°♋43'40	-0.7m
morning set	7332 Mar 18 02:44	19°♋48'21		desc. node	7333 Feb 20 03:22	20°♋35'04	
	7332 Mar 24 15:42	0°♋		morning set	7333 Feb 25 05:08	28°♋25'59	
max. Earth dist.	7332 Mar 28 12:14	6°♋06'53	1.43981 AU		7333 Feb 26 05:21	0°♋	
				max. Earth dist.	7333 Mar 11 03:21	20°♋09'48	1.45079 AU
superior conj	7332 Apr 03 04:06	15°♋16'15	-2°11'07				
minimum elong	7332 Apr 03 03:45	15°♋14'48	2°11'08	superior conj	7333 Mar 13 20:26	24°♋26'28	-2°00'03
	7332 Apr 11 23:33	0°♋		minimum elong	7333 Mar 13 13:19	23°♋58'18	1°59'38
evening rise	7332 Apr 16 03:15	7°♋07'41			7333 Mar 17 08:26	0°♋	
asc. node	7332 Apr 27 01:12	25°♋29'10		evening rise	7333 Mar 28 13:03	18°♋07'14	
	7332 Apr 30 03:09	0°♋			7333 Apr 04 18:55	0°♋	
evening max el	7332 May 03 19:24	4°♋22'34	18°08'23	asc. node	7333 Apr 13 22:14	13°♋50'30	
retrograde	7332 May 10 05:18	7°♋43'54		evening max el	7333 Apr 17 08:05	17°♋50'05	18°27'32
evening set	7332 May 13 00:54	7°♋03'30		retrograde	7333 Apr 23 19:17	21°♋20'24	
inferior conj	7332 May 19 05:46	1°♋51'08	3°04'03	evening set	7333 Apr 26 21:55	20°♋26'37	
minimum elong	7332 May 19 08:02	1°♋45'06	3°03'36	inferior conj	7333 May 02 16:50	14°♋56'26	3°23'09
	7332 May 20 23:23	30°♋♋		minimum elong	7333 May 02 17:42	14°♋53'54	3°23'01
min. Earth dist.	7332 May 22 01:34	28°♋51'54	0.62629 AU	min. Earth dist.	7333 May 04 21:48	12°♋20'49	0.64589 AU
morning rise	7332 May 25 13:32	25°♋43'51		morning rise	7333 May 08 12:38	8°♋41'59	
direct	7332 Jun 01 08:29	23°♋12'15		direct	7333 May 15 05:31	5°♋56'19	
desc. node	7332 Jun 01 05:50	23°♋12'17		desc. node	7333 May 19 02:50	6°♋44'12	
	7332 Jun 14 03:13	0°♋		morning max el	7333 May 28 19:34	13°♋53'32	27°22'46
morning max el	7332 Jun 15 10:00	1°♋14'49	27°52'38		7333 Jun 10 20:00	0°♋	
	7332 Jul 06 11:54	0°♋			7333 Jun 29 03:06	0°♋	
morning set	7332 Jul 19 12:13	24°♋00'10		morning set	7333 Jul 03 03:19	7°♋38'35	
	7332 Jul 22 10:05	0°♋		max. Earth dist.	7333 Jul 07 19:38	17°♋03'19	1.33340 AU
asc. node	7332 Jul 24 00:28	3°♋22'46		asc. node	7333 Jul 10 21:28	23°♋29'34	
max. Earth dist.	7332 Jul 24 21:37	5°♋15'47	1.32342 AU				
				superior conj	7333 Jul 11 07:30	24°♋22'46	0°04'17
superior conj	7332 Jul 27 03:03	10°♋04'39	0°31'27	minimum elong	7333 Jul 11 07:17	24°♋21'37	0°04'10
minimum elong	7332 Jul 27 01:39	9°♋56'59	0°31'05	behind sun begin	7333 Jul 11 01:58	23°♋53'20	
evening rise	7332 Aug 03 00:15	25°♋02'45		behind sun end	7333 Jul 11 12:37	24°♋49'57	
	7332 Aug 05 08:42	0°♋			7333 Jul 13 22:38	0°♋	
	7332 Aug 23 09:44	0°♋		evening rise	7333 Jul 18 11:31	9°♋42'03	
evening max el	7332 Aug 27 05:14	4°♋06'44	23°55'16		7333 Jul 29 00:10	0°♋	
desc. node	7332 Aug 28 04:59	5°♋02'12		evening max el	7333 Aug 08 18:34	14°♋23'05	22°16'40
retrograde	7332 Sep 09 21:52	10°♋58'43		desc. node	7333 Aug 15 02:01	19°♋06'45	
evening set	7332 Sep 14 12:27	10°♋12'04		retrograde	7333 Aug 21 16:14	20°♋48'02	
min. Earth dist.	7332 Sep 20 15:47	7°♋12'50	0.56054 AU	evening set	7333 Aug 24 18:58	20°♋26'38	
inferior conj	7332 Sep 22 21:58	5°♋50'23	-5°29'08	min. Earth dist.	7333 Sep 02 00:39	16°♋51'39	0.54965 AU
minimum elong	7332 Sep 22 20:32	5°♋52'35	5°29'05	inferior conj	7333 Sep 02 21:10	16°♋22'46	-4°52'07
morning rise	7332 Oct 01 06:51	1°♋53'32		minimum elong	7333 Sep 02 13:08	16°♋34'05	4°50'35
direct	7332 Oct 04 01:15	1°♋34'00		morning rise	7333 Sep 11 08:58	12°♋34'13	
morning max el	7332 Oct 14 04:48	6°♋19'30	19°57'59	direct	7333 Sep 14 15:32	12°♋10'09	
asc. node	7332 Oct 19 23:53	13°♋14'20		morning max el	7333 Sep 26 08:36	17°♋39'34	21°23'20
	7332 Oct 29 14:16	0°♋			7333 Oct 05 23:41	0°♋	
morning set	7332 Nov 01 04:52	5°♋14'02		asc. node	7333 Oct 06 20:54	1°♋27'04	

morning set	7333 Oct 16 13:44	19° $\Omega$ 59'19			7334 Sep 09 19:23	0° $\Pi$	
	7333 Oct 21 08:02	0° $\mathbb{M}$		asc. node	7334 Sep 23 17:55	20° $\Pi$ 17'32	
					7334 Sep 28 17:18	0° $\Omega$	
superior conj	7333 Oct 23 20:19	5° $\mathbb{M}$ 15'35	1°41'15	morning set	7334 Oct 01 00:57	4° $\Omega$ 49'51	
minimum elong	7333 Oct 23 20:58	5° $\mathbb{M}$ 18'55	1°41'18				
max. Earth dist.	7333 Oct 28 03:57	14° $\mathbb{M}$ 04'10	1.35165 AU	superior conj	7334 Oct 08 01:01	19° $\Omega$ 52'24	1°41'09
evening rise	7333 Nov 01 08:34	22° $\mathbb{M}$ 13'40		minimum elong	7334 Oct 08 00:23	19° $\Omega$ 49'03	1°41'10
	7333 Nov 05 13:49	0° $\mathbb{X}$		max. Earth dist.	7334 Oct 10 23:06	26° $\Omega$ 04'12	1.33645 AU
desc. node	7333 Nov 11 01:04	9° $\mathbb{X}$ 25'38			7334 Oct 12 20:32	0° $\mathbb{M}$	
	7333 Nov 24 17:28	0° $\mathbb{Z}$		evening rise	7334 Oct 15 19:02	5° $\mathbb{M}$ 55'32	
evening max el	7333 Dec 06 16:38	14° $\mathbb{Z}$ 02'15	26°37'43	desc. node	7334 Oct 28 22:07	29° $\mathbb{M}$ 31'16	
retrograde	7333 Dec 19 16:38	21° $\mathbb{Z}$ 18'04			7334 Oct 29 05:15	0° $\mathbb{X}$	
evening set	7333 Dec 26 03:56	18° $\mathbb{Z}$ 42'48		evening max el	7334 Nov 19 05:26	27° $\mathbb{X}$ 32'35	27°16'43
min. Earth dist.	7333 Dec 30 06:05	14° $\mathbb{Z}$ 33'28	0.66178 AU		7334 Nov 21 23:51	0° $\mathbb{Z}$	
inferior conj	7334 Jan 01 01:30	12° $\mathbb{Z}$ 24'27	-0°36'02	retrograde	7334 Dec 02 16:27	4° $\mathbb{Z}$ 51'49	
minimum elong	7334 Jan 01 02:30	12° $\mathbb{Z}$ 21'27	0°35'32	evening set	7334 Dec 09 13:48	2° $\mathbb{Z}$ 14'41	
asc. node	7334 Jan 02 20:12	10° $\mathbb{Z}$ 20'44			7334 Dec 12 02:54	30° $\mathbb{R}$ $\mathbb{X}$	
morning rise	7334 Jan 07 01:55	6° $\mathbb{Z}$ 42'13		min. Earth dist.	7334 Dec 13 10:15	28° $\mathbb{X}$ 39'32	0.64754 AU
direct	7334 Jan 09 23:59	5° $\mathbb{Z}$ 54'39		inferior conj	7334 Dec 15 17:28	26° $\mathbb{X}$ 09'33	-1°40'17
morning max el	7334 Jan 16 12:51	9° $\mathbb{Z}$ 25'57	18°23'33	minimum elong	7334 Dec 15 20:29	26° $\mathbb{X}$ 01'21	1°38'57
	7334 Jan 31 02:35	0° $\approx$		asc. node	7334 Dec 20 17:15	21° $\mathbb{X}$ 30'14	
morning set	7334 Feb 05 08:06	8° $\approx$ 20'57		morning rise	7334 Dec 22 04:32	20° $\mathbb{X}$ 40'55	
desc. node	7334 Feb 07 00:21	11° $\approx$ 01'37		direct	7334 Dec 24 18:33	20° $\mathbb{X}$ 06'07	
	7334 Feb 19 00:11	0° $\mathbb{H}$		morning max el	7334 Dec 31 05:12	23° $\mathbb{X}$ 29'49	17°57'13
					7335 Jan 05 10:51	0° $\mathbb{Z}$	
superior conj	7334 Feb 21 00:42	3° $\mathbb{H}$ 10'13	-1°29'23	morning set	7335 Jan 17 16:42	19° $\mathbb{Z}$ 44'13	
minimum elong	7334 Feb 20 15:13	2° $\mathbb{H}$ 33'04	1°28'21		7335 Jan 23 21:16	0° $\approx$	
max. Earth dist.	7334 Feb 21 22:30	4° $\mathbb{H}$ 35'36	1.45465 AU	desc. node	7335 Jan 24 21:21	1° $\approx$ 38'42	
evening rise	7334 Mar 08 23:29	28° $\mathbb{H}$ 10'38					
	7334 Mar 10 03:16	0° $\mathbb{Y}$		superior conj	7335 Jan 31 12:38	12° $\approx$ 22'19	-0°46'13
greatest brilliancy	7334 Mar 19 04:11	14° $\mathbb{Y}$ 10'13	-0.8m	minimum elong	7335 Jan 31 07:12	12° $\approx$ 00'35	0°45'23
	7334 Mar 30 10:41	0° $\mathbb{B}$		max. Earth dist.	7335 Feb 04 18:20	19° $\approx$ 05'34	1.45104 AU
evening max el	7334 Mar 31 17:50	1° $\mathbb{B}$ 23'41	19°04'17		7335 Feb 11 17:50	0° $\mathbb{H}$	
asc. node	7334 Mar 31 19:18	1° $\mathbb{B}$ 27'24		evening rise	7335 Feb 16 15:54	7° $\mathbb{H}$ 35'56	
retrograde	7334 Apr 07 14:47	5° $\mathbb{B}$ 15'23		greatest brilliancy	7335 Mar 03 02:50	29° $\mathbb{H}$ 29'17	-0.6m
evening set	7334 Apr 11 00:49	4° $\mathbb{B}$ 07'27			7335 Mar 03 11:13	0° $\mathbb{Y}$	
	7334 Apr 15 05:41	30° $\mathbb{R}$ $\mathbb{Y}$		evening max el	7335 Mar 14 22:51	14° $\mathbb{Y}$ 59'51	19°57'02
inferior conj	7334 Apr 16 13:16	28° $\mathbb{Y}$ 20'56	3°25'20	asc. node	7335 Mar 18 16:23	18° $\mathbb{Y}$ 07'17	
minimum elong	7334 Apr 16 12:47	28° $\mathbb{Y}$ 22'28	3°25'16	retrograde	7335 Mar 22 12:56	19° $\mathbb{Y}$ 23'26	
min. Earth dist.	7334 Apr 18 02:41	26° $\mathbb{Y}$ 21'46	0.66171 AU	evening set	7335 Mar 26 07:13	18° $\mathbb{Y}$ 00'53	
morning rise	7334 Apr 22 00:20	22° $\mathbb{Y}$ 04'07		inferior conj	7335 Mar 31 16:02	11° $\mathbb{Y}$ 59'57	3°14'13
direct	7334 Apr 28 09:13	19° $\mathbb{Y}$ 17'11		minimum elong	7335 Mar 31 14:32	12° $\mathbb{Y}$ 05'00	3°14'00
desc. node	7334 May 05 23:50	22° $\mathbb{Y}$ 19'14		min. Earth dist.	7335 Apr 01 14:51	10° $\mathbb{Y}$ 43'13	0.67320 AU
morning max el	7334 May 11 05:49	26° $\mathbb{Y}$ 56'01	26°23'50	morning rise	7335 Apr 05 21:38	5° $\mathbb{Y}$ 43'35	
	7334 May 14 02:29	0° $\mathbb{B}$		direct	7335 Apr 11 18:44	3° $\mathbb{Y}$ 06'02	
	7334 Jun 04 11:16	0° $\mathbb{I}$		desc. node	7335 Apr 22 20:50	9° $\mathbb{Y}$ 26'08	
morning set	7334 Jun 16 06:28	20° $\mathbb{I}$ 39'07		morning max el	7335 Apr 23 15:18	10° $\mathbb{Y}$ 12'03	25°04'55
max. Earth dist.	7334 Jun 20 07:10	28° $\mathbb{I}$ 23'12	1.34815 AU		7335 May 09 07:55	0° $\mathbb{B}$	
	7334 Jun 21 02:49	0° $\mathbb{E}$			7335 May 28 02:48	0° $\mathbb{I}$	
				morning set	7335 May 29 17:11	2° $\mathbb{I}$ 50'01	
superior conj	7334 Jun 25 05:11	8° $\mathbb{E}$ 16'26	-0°25'40	max. Earth dist.	7335 Jun 02 08:29	9° $\mathbb{I}$ 27'27	1.36713 AU
minimum elong	7334 Jun 25 06:38	8° $\mathbb{E}$ 23'53	0°25'28				
asc. node	7334 Jun 27 18:29	13° $\mathbb{E}$ 33'48		superior conj	7335 Jun 08 17:10	21° $\mathbb{I}$ 38'08	-0°56'54
evening rise	7334 Jul 02 20:25	24° $\mathbb{E}$ 10'07		minimum elong	7335 Jun 08 20:33	21° $\mathbb{I}$ 54'49	0°56'24
	7334 Jul 05 16:54	0° $\mathbb{Q}$			7335 Jun 12 21:41	0° $\mathbb{E}$	
evening max el	7334 Jul 21 16:53	25° $\mathbb{Q}$ 00'46	20°47'34	asc. node	7335 Jun 14 15:32	3° $\mathbb{E}$ 31'40	
	7334 Jul 29 04:00	0° $\mathbb{P}$		evening rise	7335 Jun 17 00:39	8° $\mathbb{E}$ 20'29	
desc. node	7334 Aug 01 23:05	0° $\mathbb{P}$ 40'57			7335 Jun 29 00:11	0° $\mathbb{Q}$	
retrograde	7334 Aug 02 04:23	0° $\mathbb{P}$ 41'05		evening max el	7335 Jul 04 04:14	6° $\mathbb{Q}$ 20'11	19°36'33
evening set	7334 Aug 04 07:30	0° $\mathbb{P}$ 30'09		retrograde	7335 Jul 13 22:43	11° $\mathbb{Q}$ 08'51	
	7334 Aug 06 09:10	30° $\mathbb{R}$ $\mathbb{Q}$		evening set	7335 Jul 15 19:30	10° $\mathbb{Q}$ 59'05	
inferior conj	7334 Aug 13 13:46	26° $\mathbb{Q}$ 33'08	-3°23'12	desc. node	7335 Jul 19 20:08	9° $\mathbb{Q}$ 38'51	
minimum elong	7334 Aug 13 04:59	26° $\mathbb{Q}$ 45'37	3°20'26	inferior conj	7335 Jul 24 14:33	6° $\mathbb{Q}$ 54'56	-1°26'59
min. Earth dist.	7334 Aug 14 10:12	26° $\mathbb{Q}$ 04'03	0.54758 AU	minimum elong	7335 Jul 24 10:35	7° $\mathbb{Q}$ 01'12	1°25'34
morning rise	7334 Aug 22 02:28	22° $\mathbb{Q}$ 33'38		min. Earth dist.	7335 Jul 26 22:35	5° $\mathbb{Q}$ 26'45	0.55504 AU
direct	7334 Aug 25 23:56	22° $\mathbb{Q}$ 01'10		morning rise	7335 Aug 01 23:20	2° $\mathbb{Q}$ 25'06	
morning max el	7334 Sep 08 01:53	28° $\mathbb{Q}$ 17'21	23°04'38	direct	7335 Aug 06 15:40	1° $\mathbb{Q}$ 36'14	






























































































































morning max el	7335 Aug 20 14:53	8°Ω34'41	24°49'32	direct	7336 Jul 17 21:54	11°Ω30'16	
	7335 Sep 05 10:30	0°ྐ		morning max el	7336 Aug 01 05:57	18°Ω59'54	26°21'37
asc. node	7335 Sep 10 14:55	9°ྐ36'07			7336 Aug 10 12:51	0°Ω	
morning set	7335 Sep 15 12:41	19°ྐ40'03		asc. node	7336 Aug 27 11:55	29°Ω15'23	
	7335 Sep 20 06:59	0°Ω			7336 Aug 27 20:37	0°ྐ	
				morning set	7336 Aug 29 23:22	4°ྐ25'22	
superior conj	7335 Sep 22 10:06	4°Ω40'16	1°34'56				
minimum elong	7335 Sep 22 08:31	4°Ω31'36	1°34'49	superior conj	7336 Sep 05 21:28	19°ྐ32'45	1°23'16
max. Earth dist.	7335 Sep 24 02:05	8°Ω18'20	1.32558 AU	minimum elong	7336 Sep 05 19:20	19°ྐ20'55	1°22'59
evening rise	7335 Sep 29 15:36	20°Ω04'35		max. Earth dist.	7336 Sep 06 10:35	20°ྐ45'15	1.31923 AU
	7335 Oct 04 16:13	0°ྐ			7336 Sep 10 16:00	0°Ω	
desc. node	7335 Oct 15 19:12	19°ྐ10'40		evening rise	7336 Sep 12 19:20	4°Ω32'58	
	7335 Oct 23 08:26	0°✎			7336 Sep 26 08:40	0°ྐ	
evening max el	7335 Nov 01 16:07	10°✎36'58	27°28'17	desc. node	7336 Oct 01 16:15	8°ྐ13'15	
retrograde	7335 Nov 15 09:46	17°✎53'54		evening max el	7336 Oct 13 22:24	23°ྐ03'28	27°07'26
evening set	7335 Nov 22 12:32	15°✎23'47			7336 Oct 25 09:48	0°✎	
min. Earth dist.	7335 Nov 26 04:55	12°✎19'08	0.63009 AU	retrograde	7336 Oct 27 19:37	0°✎14'56	
inferior conj	7335 Nov 28 23:19	9°✎37'13	-2°47'56		7336 Oct 30 04:24	30°✎ྐ	
minimum elong	7335 Nov 29 04:30	9°✎24'32	2°45'55	evening set	7336 Nov 03 20:22	28°ྐ03'05	
morning rise	7335 Dec 05 22:23	4°✎25'17		min. Earth dist.	7336 Nov 07 13:06	25°ྐ20'22	0.61024 AU
asc. node	7335 Dec 07 14:18	4°✎01'43		inferior conj	7336 Nov 10 15:51	22°ྐ39'30	-3°54'32
direct	7335 Dec 08 06:42	3°✎59'30		minimum elong	7336 Nov 10 22:38	22°ྐ24'50	3°52'25
morning max el	7335 Dec 14 22:27	7°✎24'55	17°48'18	morning rise	7336 Nov 18 03:09	17°ྐ47'16	
	7335 Dec 29 18:25	0°Ω		direct	7336 Nov 20 08:53	17°ྐ26'58	
morning set	7335 Dec 31 02:01	2°Ω18'31		asc. node	7336 Nov 23 11:18	18°ྐ07'35	
				morning max el	7336 Nov 27 13:15	21°ྐ02'43	17°57'49
superior conj	7336 Jan 11 22:57	22°Ω40'59	-0°01'24		7336 Dec 04 07:25	0°✎	
minimum elong	7336 Jan 11 22:49	22°Ω40'27	0°01'17	morning set	7336 Dec 13 05:34	15°✎44'24	
behind sun begin	7336 Jan 11 13:35	22°Ω01'57			7336 Dec 21 01:38	0°Ω	
behind sun end	7336 Jan 12 08:04	23°Ω18'52					
desc. node	7336 Jan 11 18:21	22°Ω21'50		superior conj	7336 Dec 23 11:07	4°Ω14'04	0°37'21
	7336 Jan 16 09:52	0°≈		minimum elong	7336 Dec 23 14:02	4°Ω26'48	0°37'00
max. Earth dist.	7336 Jan 18 11:36	3°≈20'35	1.44045 AU	desc. node	7336 Dec 28 15:24	13°Ω07'52	
evening rise	7336 Jan 27 02:58	16°≈55'30		max. Earth dist.	7336 Dec 31 00:25	17°Ω05'44	1.42416 AU
	7336 Feb 04 17:44	0°✎		evening rise	7337 Jan 06 00:06	26°Ω47'17	
evening max el	7336 Feb 25 22:19	28°✎36'53	21°03'16		7337 Jan 08 01:03	0°≈	
	7336 Feb 27 08:43	0°ྐ			7337 Jan 28 12:57	0°✎	
asc. node	7336 Mar 04 13:27	3°ྐ34'58		evening max el	7337 Feb 07 16:46	12°✎16'08	22°19'02
retrograde	7336 Mar 05 11:20	3°ྐ39'17		retrograde	7337 Feb 17 08:10	17°✎59'26	
evening set	7336 Mar 09 15:04	2°ྐ01'49		asc. node	7337 Feb 19 10:29	17°✎36'51	
	7336 Mar 11 17:15	30°✎✎		evening set	7337 Feb 21 22:46	16°✎06'50	
inferior conj	7336 Mar 14 22:38	25°✎48'59	2°52'11	inferior conj	7337 Feb 27 06:59	9°✎45'12	2°20'48
minimum elong	7336 Mar 14 20:31	25°✎56'19	2°51'45	minimum elong	7337 Feb 27 04:41	9°✎53'12	2°20'10
min. Earth dist.	7336 Mar 15 08:10	25°✎16'01	0.68033 AU	min. Earth dist.	7337 Feb 27 04:19	9°✎54'28	0.68325 AU
morning rise	7336 Mar 20 01:46	19°✎34'57		morning rise	7337 Mar 04 10:26	3°✎35'03	
direct	7336 Mar 25 09:15	17°✎14'22		direct	7337 Mar 09 03:45	1°✎35'44	
morning max el	7336 Apr 05 00:23	23°✎34'41	23°36'15	morning max el	7337 Mar 18 11:52	7°✎04'25	22°07'36
desc. node	7336 Apr 08 17:49	27°✎39'06		desc. node	7337 Mar 26 14:49	16°✎39'59	
	7336 Apr 10 16:51	0°ྐ			7337 Apr 05 04:29	0°ྐ	
	7336 May 01 17:24	0°Ω		morning set	7337 Apr 20 15:20	23°ྐ45'09	
morning set	7336 May 10 05:52	13°Ω56'19			7337 Apr 24 10:57	0°Ω	
max. Earth dist.	7336 May 14 04:08	20°Ω43'12	1.38887 AU	max. Earth dist.	7337 Apr 26 01:49	2°Ω42'06	1.41106 AU
	7336 May 19 08:01	0°ྐ					
superior conj	7336 May 21 15:45	4°ྐ18'45	-1°27'08	superior conj	7337 May 03 20:26	16°Ω07'30	-1°52'46
minimum elong	7336 May 21 20:50	4°ྐ42'36	1°26'31	minimum elong	7337 May 04 01:54	16°Ω31'47	1°52'22
evening rise	7336 May 30 21:26	22°ྐ05'25			7337 May 11 11:24	0°ྐ	
asc. node	7336 May 31 12:35	23°ྐ18'55		evening rise	7337 May 14 07:15	5°ྐ15'38	
	7336 Jun 04 00:24	0°Ω		asc. node	7337 May 18 09:36	12°ྐ50'12	
evening max el	7336 Jun 16 03:25	18°Ω23'16	18°46'12		7337 May 29 11:22	0°Ω	
retrograde	7336 Jun 24 09:07	22°Ω27'32		evening max el	7337 May 30 10:51	1°Ω01'04	18°16'10
evening set	7336 Jun 26 10:08	22°Ω13'27		retrograde	7337 Jun 06 14:22	4°Ω36'05	
inferior conj	7336 Jul 04 10:09	17°Ω52'34	0°23'03	evening set	7337 Jun 08 22:47	4°Ω13'39	
minimum elong	7336 Jul 04 11:03	17°Ω50'56	0°22'39		7337 Jun 15 14:19	30°✎ྐ	
desc. node	7336 Jul 05 17:09	16°Ω55'26		inferior conj	7337 Jun 16 03:20	29°ྐ32'14	1°47'45
min. Earth dist.	7336 Jul 07 15:07	15°Ω32'24	0.57063 AU	minimum elong	7337 Jun 16 06:22	29°ྐ25'43	1°46'44
morning rise	7336 Jul 12 08:29	12°Ω45'46		min. Earth dist.	7337 Jun 19 13:07	26°ྐ38'14	0.59139 AU
				desc. node	7337 Jun 22 14:11	24°ྐ25'00	

morning rise	7337 Jun 23 10:52	23° $\Pi$ 54'06		desc. node	7338 Jun 09 11:11	3° $\Pi$ 54'12	
direct	7337 Jun 29 17:46	22° $\Pi$ 06'19		direct	7338 Jun 12 00:49	3° $\Pi$ 34'17	
morning max el	7337 Jul 14 02:46	29° $\Pi$ 55'16	27°26'03	morning max el	7338 Jun 26 06:15	11° $\Pi$ 33'42	27°54'00
	7337 Jul 14 04:41	0° $\mathfrak{E}$			7338 Jul 10 18:12	0° $\mathfrak{E}$	
	7337 Aug 04 12:46	0° $\Omega$			7338 Jul 27 19:43	0° $\Omega$	
morning set	7337 Aug 14 07:15	18° $\Omega$ 59'27		morning set	7338 Jul 29 10:29	3° $\Omega$ 17'02	
asc. node	7337 Aug 14 08:55	19° $\Omega$ 08'13		asc. node	7338 Aug 01 05:56	9° $\Omega$ 09'43	
	7337 Aug 19 09:44	0° $\mathfrak{M}$		max. Earth dist.	7338 Aug 04 05:57	15° $\Omega$ 37'46	1.31990 AU
superior conj	7337 Aug 21 09:13	4° $\mathfrak{M}$ 22'28	1°06'39	superior conj	7338 Aug 05 19:37	19° $\Omega$ 03'59	0°45'29
minimum elong	7337 Aug 21 06:59	4° $\mathfrak{M}$ 10'01	1°06'13	minimum elong	7338 Aug 05 17:45	18° $\Omega$ 53'45	0°45'04
max. Earth dist.	7337 Aug 20 21:06	3° $\mathfrak{M}$ 15'20	1.31732 AU		7338 Aug 10 19:04	0° $\mathfrak{M}$	
evening rise	7337 Aug 28 03:43	19° $\mathfrak{M}$ 12'04		evening rise	7338 Aug 12 14:42	3° $\mathfrak{M}$ 55'37	
	7337 Sep 02 10:12	0° $\mathfrak{L}$			7338 Aug 26 10:25	0° $\mathfrak{L}$	
desc. node	7337 Sep 18 13:17	26° $\mathfrak{L}$ 23'28		desc. node	7338 Sep 05 10:19	13° $\mathfrak{L}$ 20'45	
	7337 Sep 21 11:27	0° $\mathfrak{M}$		evening max el	7338 Sep 07 13:17	15° $\mathfrak{L}$ 30'25	24°50'30
evening max el	7337 Sep 25 21:46	4° $\mathfrak{M}$ 41'35	26°13'04	retrograde	7338 Sep 21 09:44	22° $\mathfrak{L}$ 29'11	
retrograde	7337 Oct 09 20:13	11° $\mathfrak{M}$ 46'59		evening set	7338 Sep 26 20:39	21° $\mathfrak{L}$ 22'18	
evening set	7337 Oct 16 08:32	10° $\mathfrak{M}$ 04'24		min. Earth dist.	7338 Oct 02 00:29	18° $\mathfrak{L}$ 37'33	0.56996 AU
min. Earth dist.	7337 Oct 20 10:56	7° $\mathfrak{M}$ 29'45	0.58944 AU	inferior conj	7338 Oct 04 19:26	16° $\mathfrak{L}$ 48'37	-5°26'40
inferior conj	7337 Oct 23 15:31	5° $\mathfrak{M}$ 06'20	-4°52'00	minimum elong	7338 Oct 04 21:57	16° $\mathfrak{L}$ 44'30	5°26'29
minimum elong	7337 Oct 23 22:00	4° $\mathfrak{M}$ 54'09	4°50'41	morning rise	7338 Oct 13 01:29	12° $\mathfrak{L}$ 41'20	
morning rise	7337 Oct 31 13:43	0° $\mathfrak{M}$ 36'20		direct	7338 Oct 15 14:46	12° $\mathfrak{L}$ 22'57	
direct	7337 Nov 02 20:55	0° $\mathfrak{M}$ 18'21		morning max el	7338 Oct 24 21:26	16° $\mathfrak{L}$ 46'26	19°18'30
asc. node	7337 Nov 10 08:19	3° $\mathfrak{M}$ 41'02		asc. node	7338 Oct 28 05:21	20° $\mathfrak{L}$ 28'09	
morning max el	7337 Nov 10 22:04	4° $\mathfrak{M}$ 13'08	18°27'19		7338 Nov 03 11:43	0° $\mathfrak{M}$	
morning set	7337 Nov 26 21:50	29° $\mathfrak{M}$ 45'30		morning set	7338 Nov 10 22:47	14° $\mathfrak{M}$ 10'16	
	7337 Nov 27 00:51	0° $\mathfrak{X}$			7338 Nov 18 21:51	0° $\mathfrak{X}$	
superior conj	7337 Dec 05 21:40	16° $\mathfrak{X}$ 51'01	1°06'52	superior conj	7338 Nov 19 01:28	0° $\mathfrak{X}$ 17'35	1°26'52
minimum elong	7337 Dec 06 01:13	17° $\mathfrak{X}$ 07'25	1°06'30	minimum elong	7338 Nov 19 04:15	0° $\mathfrak{X}$ 31'06	1°26'41
	7337 Dec 13 06:00	0° $\mathfrak{Z}$		max. Earth dist.	7338 Nov 25 14:29	12° $\mathfrak{X}$ 37'51	1.38250 AU
max. Earth dist.	7337 Dec 13 08:45	0° $\mathfrak{Z}$ 11'54	1.40404 AU	evening rise	7338 Nov 29 08:20	19° $\mathfrak{X}$ 18'46	
desc. node	7337 Dec 15 12:25	3° $\mathfrak{Z}$ 52'45		desc. node	7338 Dec 02 09:25	24° $\mathfrak{X}$ 32'48	
evening rise	7337 Dec 17 17:07	7° $\mathfrak{Z}$ 33'30			7338 Dec 05 16:15	0° $\mathfrak{Z}$	
	7338 Jan 01 02:48	0° $\mathfrak{A}$			7338 Dec 26 07:29	0° $\mathfrak{A}$	
evening max el	7338 Jan 21 07:43	25° $\mathfrak{A}$ 59'00	23°39'02	evening max el	7339 Jan 03 20:52	9° $\mathfrak{A}$ 44'30	24°56'49
	7338 Jan 25 23:47	0° $\mathfrak{H}$		retrograde	7339 Jan 15 15:51	16° $\mathfrak{A}$ 35'28	
retrograde	7338 Feb 01 02:02	2° $\mathfrak{H}$ 19'52		evening set	7339 Jan 21 07:33	14° $\mathfrak{A}$ 14'23	
evening set	7338 Feb 06 04:47	0° $\mathfrak{H}$ 12'25		asc. node	7339 Jan 24 04:35	11° $\mathfrak{A}$ 14'54	
asc. node	7338 Feb 06 07:31	0° $\mathfrak{H}$ 06'33		min. Earth dist.	7339 Jan 25 19:57	9° $\mathfrak{A}$ 10'35	0.67711 AU
	7338 Feb 06 10:31	30° $\mathfrak{R}$		inferior conj	7339 Jan 26 21:26	7° $\mathfrak{A}$ 46'46	0°53'22
min. Earth dist.	7338 Feb 11 00:59	24° $\mathfrak{A}$ 34'09	0.68210 AU	minimum elong	7339 Jan 26 20:11	7° $\mathfrak{A}$ 50'53	0°52'56
inferior conj	7338 Feb 11 15:11	23° $\mathfrak{A}$ 45'39	1°41'00	morning rise	7339 Feb 01 09:04	1° $\mathfrak{A}$ 49'15	
minimum elong	7338 Feb 11 13:10	23° $\mathfrak{A}$ 52'33	1°40'20	direct	7339 Feb 04 23:50	0° $\mathfrak{A}$ 34'07	
morning rise	7338 Feb 16 21:31	17° $\mathfrak{A}$ 40'58		morning max el	7339 Feb 12 07:04	4° $\mathfrak{A}$ 38'45	19°38'58
direct	7338 Feb 21 01:04	16° $\mathfrak{A}$ 04'19		greatest brilliancy	7339 Feb 25 02:20	21° $\mathfrak{A}$ 24'00	-0.7m
morning max el	7338 Mar 01 05:29	20° $\mathfrak{A}$ 45'32	20°46'54	desc. node	7339 Feb 28 08:47	26° $\mathfrak{A}$ 16'07	
	7338 Mar 08 23:01	0° $\mathfrak{H}$			7339 Mar 02 20:05	0° $\mathfrak{H}$	
desc. node	7338 Mar 13 11:49	6° $\mathfrak{H}$ 15'39		morning set	7339 Mar 09 19:54	10° $\mathfrak{H}$ 41'46	
	7338 Mar 29 09:41	0° $\mathfrak{Y}$		max. Earth dist.	7339 Mar 21 19:14	29° $\mathfrak{H}$ 23'13	1.44534 AU
morning set	7338 Mar 30 22:52	2° $\mathfrak{Y}$ 24'23			7339 Mar 22 04:30	0° $\mathfrak{Y}$	
max. Earth dist.	7338 Apr 08 06:55	15° $\mathfrak{Y}$ 38'56	1.43072 AU	superior conj	7339 Mar 26 07:36	6° $\mathfrak{Y}$ 36'00	-2°08'55
superior conj	7338 Apr 15 02:34	26° $\mathfrak{Y}$ 54'46	-2°08'43	minimum elong	7339 Mar 26 04:18	6° $\mathfrak{Y}$ 22'41	2°08'50
minimum elong	7338 Apr 15 05:27	27° $\mathfrak{Y}$ 06'55	2°08'40	evening rise	7339 Apr 09 00:50	29° $\mathfrak{Y}$ 15'23	
	7338 Apr 16 22:21	0° $\mathfrak{B}$			7339 Apr 09 11:25	0° $\mathfrak{B}$	
evening rise	7338 Apr 27 01:56	17° $\mathfrak{B}$ 42'16		asc. node	7339 Apr 22 03:41	20° $\mathfrak{B}$ 41'44	
	7338 May 04 02:04	0° $\mathfrak{I}$		evening max el	7339 Apr 27 12:01	27° $\mathfrak{B}$ 24'49	18°14'15
asc. node	7338 May 05 06:38	2° $\mathfrak{I}$ 00'18			7339 Apr 30 20:28	0° $\mathfrak{I}$	
evening max el	7338 May 13 22:50	14° $\mathfrak{I}$ 04'36	18°05'43	retrograde	7339 May 03 21:23	0° $\mathfrak{I}$ 48'34	
retrograde	7338 May 20 12:00	17° $\mathfrak{I}$ 26'36		evening set	7339 May 06 19:57	0° $\mathfrak{I}$ 02'34	
evening set	7338 May 23 03:42	16° $\mathfrak{I}$ 53'09			7339 May 06 21:55	30° $\mathfrak{R}$	
inferior conj	7338 May 29 16:00	11° $\mathfrak{I}$ 51'24	2°43'33	inferior conj	7339 May 12 20:05	24° $\mathfrak{B}$ 42'05	3°14'29
minimum elong	7338 May 29 18:53	11° $\mathfrak{I}$ 44'13	2°42'50	minimum elong	7339 May 12 21:47	24° $\mathfrak{B}$ 37'23	3°14'12
min. Earth dist.	7338 Jun 01 18:45	8° $\mathfrak{I}$ 47'37	0.61383 AU	min. Earth dist.	7339 May 15 09:40	21° $\mathfrak{B}$ 51'07	0.63502 AU
morning rise	7338 Jun 05 07:58	5° $\mathfrak{I}$ 51'59		morning rise	7339 May 18 22:22	18° $\mathfrak{B}$ 30'50	



direct	7339 May 25 17:06	15°♄52'01		retrograde	7340 Apr 16 14:12	14°♄33'17	
desc. node	7339 May 27 08:12	16°♄00'22		evening set	7340 Apr 19 19:48	13°♄33'43	
morning max el	7339 Jun 08 14:37	23°♄53'36	27°44'04	inferior conj	7340 Apr 25 11:35	7°♄56'19	3°25'51
	7339 Jun 14 02:00	0°♄		minimum elong	7340 Apr 25 11:51	7°♄55'31	3°25'48
	7339 Jul 04 02:46	0°♄		min. Earth dist.	7340 Apr 27 09:55	5°♄34'51	0.65312 AU
morning set	7339 Jul 13 06:50	17°♄11'51		morning rise	7340 May 01 03:14	1°♄40'03	
max. Earth dist.	7339 Jul 18 09:05	27°♄40'45	1.32707 AU		7340 May 03 11:58	30°♄	
asc. node	7339 Jul 19 02:57	29°♄15'30		direct	7340 May 07 17:11	28°♄52'18	
	7339 Jul 19 11:18	0°♄			7340 May 12 07:00	0°♄	
				desc. node	7340 May 13 05:14	0°♄28'10	
superior conj	7339 Jul 21 02:48	3°♄31'54	0°20'19	morning max el	7340 May 21 00:56	6°♄44'18	27°00'40
minimum elong	7339 Jul 21 01:50	3°♄26'42	0°20'03		7340 Jun 07 22:37	0°♄	
evening rise	7339 Jul 28 02:25	18°♄37'48			7340 Jun 25 09:59	0°♄	
	7339 Aug 02 15:40	0°♄		morning set	7340 Jun 25 17:21	0°♄35'20	
evening max el	7339 Aug 20 00:49	25°♄48'04	23°12'59	max. Earth dist.	7340 Jun 30 02:49	9°♄15'35	1.33905 AU
desc. node	7339 Aug 23 07:21	28°♄37'40					
	7339 Aug 25 07:31	0°♄		superior conj	7340 Jul 04 04:41	17°♄39'59	-0°08'11
retrograde	7339 Sep 02 11:15	2°♄31'34		minimum elong	7340 Jul 04 05:07	17°♄42'18	0°08'11
evening set	7339 Sep 06 10:15	1°♄57'15		behind sun begin	7340 Jul 04 00:13	17°♄16'38	
	7339 Sep 11 03:25	30°♄		behind sun end	7340 Jul 04 10:01	18°♄07'59	
min. Earth dist.	7339 Sep 13 09:55	28°♄44'32	0.55489 AU	asc. node	7340 Jul 04 23:58	19°♄21'20	
inferior conj	7339 Sep 15 03:36	27°♄43'45	-5°20'17		7340 Jul 10 00:25	0°♄	
minimum elong	7339 Sep 14 23:01	27°♄50'27	5°19'49	evening rise	7340 Jul 11 12:56	3°♄12'32	
morning rise	7339 Sep 23 14:01	23°♄52'49			7340 Jul 26 11:12	0°♄	
direct	7339 Sep 26 13:12	23°♄31'48		evening max el	7340 Jul 31 17:02	6°♄09'12	21°36'59
morning max el	7339 Oct 07 08:43	28°♄34'42	20°32'00	desc. node	7340 Aug 09 04:25	11°♄41'05	
	7339 Oct 08 19:02	0°♄		retrograde	7340 Aug 13 02:13	12°♄17'35	
asc. node	7339 Oct 15 02:23	8°♄13'41		evening set	7340 Aug 15 16:24	12°♄02'21	
morning set	7339 Oct 26 05:30	28°♄50'24		inferior conj	7340 Aug 24 22:18	8°♄02'57	-4°19'52
	7339 Oct 26 19:02	0°♄		minimum elong	7340 Aug 24 13:02	8°♄15'55	4°17'33
				min. Earth dist.	7340 Aug 24 19:04	8°♄07'28	0.54748 AU
superior conj	7339 Nov 02 17:50	14°♄20'31	1°38'13	morning rise	7340 Sep 02 10:47	4°♄12'08	
minimum elong	7339 Nov 02 19:17	14°♄27'53	1°38'13	direct	7340 Sep 05 22:58	3°♄45'20	
max. Earth dist.	7339 Nov 07 21:52	24°♄36'07	1.36202 AU	morning max el	7340 Sep 18 07:39	9°♄35'26	22°05'11
	7339 Nov 10 18:05	0°♄		asc. node	7340 Sep 30 23:24	26°♄43'24	
evening rise	7339 Nov 11 19:30	1°♄57'51			7340 Oct 02 19:08	0°♄	
desc. node	7339 Nov 19 06:27	15°♄04'06		morning set	7340 Oct 09 15:35	13°♄38'08	
	7339 Nov 28 17:45	0°♄					
evening max el	7339 Dec 17 09:45	23°♄30'17	26°05'17	superior conj	7340 Oct 16 18:54	28°♄47'16	1°42'01
	7339 Dec 26 13:08	0°♄		minimum elong	7340 Oct 16 18:58	28°♄47'40	1°42'04
retrograde	7339 Dec 30 00:57	0°♄40'54			7340 Oct 17 08:43	0°♄	
	7340 Jan 02 07:14	30°♄		max. Earth dist.	7340 Oct 20 11:46	6°♄28'45	1.34459 AU
evening set	7340 Jan 05 05:25	28°♄09'16		evening rise	7340 Oct 24 22:35	15°♄19'33	
min. Earth dist.	7340 Jan 09 11:00	23°♄40'06	0.66842 AU		7340 Nov 01 23:20	0°♄	
inferior conj	7340 Jan 10 23:53	21°♄45'43	-0°01'28	desc. node	7340 Nov 05 03:30	5°♄20'36	
minimum elong	7340 Jan 10 23:55	21°♄45'36	0°01'22		7340 Nov 22 08:57	0°♄	
transit middle	7340 Jan 10 23:55	21°♄45'36	0°01'22	evening max el	7340 Nov 28 22:50	7°♄09'02	26°57'16
transit begin	7340 Jan 10 21:05	21°♄54'27		retrograde	7340 Dec 12 04:31	14°♄28'06	
transit end	7340 Jan 11 02:46	21°♄36'46		evening set	7340 Dec 18 20:21	11°♄51'04	
asc. node	7340 Jan 11 01:38	21°♄40'18		min. Earth dist.	7340 Dec 22 19:54	7°♄56'23	0.65611 AU
morning rise	7340 Jan 16 19:03	15°♄57'19		inferior conj	7340 Dec 24 20:22	5°♄37'18	-1°02'41
direct	7340 Jan 19 22:37	15°♄00'52		minimum elong	7340 Dec 24 22:11	5°♄32'06	1°01'50
morning max el	7340 Jan 26 16:09	18°♄41'12	18°46'20	asc. node	7340 Dec 27 22:41	2°♄17'45	
	7340 Feb 04 11:07	0°♄		morning rise	7340 Dec 31 01:07	0°♄00'27	
desc. node	7340 Feb 15 05:47	16°♄34'53			7340 Dec 31 01:29	30°♄	
morning set	7340 Feb 17 07:06	19°♄48'04		direct	7341 Jan 02 19:23	29°♄18'55	
	7340 Feb 23 19:22	0°♄			7341 Jan 05 14:08	0°♄	
max. Earth dist.	7340 Mar 03 12:14	13°♄37'17	1.45337 AU	morning max el	7341 Jan 09 06:36	2°♄46'10	18°10'12
				morning set	7341 Jan 27 22:54	0°♄21'28	
superior conj	7340 Mar 04 16:44	15°♄29'02	-1°49'11		7341 Jan 27 17:37	0°♄	
minimum elong	7340 Mar 04 07:44	14°♄53'41	1°48'27	desc. node	7341 Feb 01 02:48	7°♄06'22	
	7340 Mar 13 21:14	0°♄					
evening rise	7340 Mar 20 00:36	9°♄50'06		superior conj	7341 Feb 11 21:58	24°♄19'03	-1°11'58
greatest brilliancy	7340 Mar 26 19:36	20°♄46'17	-0.9m	minimum elong	7341 Feb 11 13:40	23°♄46'21	1°10'54
	7340 Apr 01 16:47	0°♄		max. Earth dist.	7341 Feb 14 07:31	28°♄05'03	1.45403 AU
asc. node	7340 Apr 08 00:44	8°♄45'21			7341 Feb 15 12:51	0°♄	
evening max el	7340 Apr 09 23:38	10°♄54'53	18°41'03	evening rise	7341 Feb 28 02:14	19°♄33'53	

	7341 Mar 06 19:37	0°♿		evening max el	7342 Mar 07 10:21	8°♿07'21	20°23'48
greatest brilliancy	7341 Mar 12 08:29	8°♿28'31	-0.7m	asc. node	7342 Mar 12 18:51	12°♿11'09	
evening max el	7341 Mar 24 07:34	24°♿30'11	19°24'55	retrograde	7342 Mar 15 09:27	12°♿46'19	
asc. node	7341 Mar 25 21:47	25°♿59'53		evening set	7342 Mar 19 07:39	11°♿17'27	
retrograde	7341 Mar 31 11:06	28°♿34'23		inferior conj	7342 Mar 24 15:43	5°♿11'22	3°06'05
evening set	7341 Apr 04 00:27	27°♿20'28		minimum elong	7342 Mar 24 13:54	5°♿17'34	3°05'46
inferior conj	7341 Apr 09 11:04	21°♿27'48	3°22'03	min. Earth dist.	7342 Mar 25 08:45	4°♿13'14	0.67683 AU
minimum elong	7341 Apr 09 10:06	21°♿30'56	3°21'57		7342 Mar 28 18:02	30°♿	
min. Earth dist.	7341 Apr 10 18:14	19°♿45'55	0.66716 AU	morning rise	7342 Mar 29 19:56	28°♿56'00	
morning rise	7341 Apr 14 19:25	15°♿10'48		direct	7342 Apr 04 11:31	26°♿24'47	
direct	7341 Apr 20 23:43	12°♿26'22			7342 Apr 12 08:05	0°♿	
desc. node	7341 Apr 30 02:16	16°♿45'52		morning max el	7342 Apr 15 19:43	3°♿11'57	24°27'43
morning max el	7341 May 03 10:51	19°♿53'31	25°51'59	desc. node	7342 Apr 16 23:16	4°♿23'29	
	7341 May 12 02:07	0°♿			7342 May 06 06:33	0°♿	
	7341 Jun 01 01:22	0°♿		morning set	7342 May 21 16:08	25°♿01'42	
morning set	7341 Jun 08 14:09	13°♿16'53			7342 May 24 11:27	0°♿	
max. Earth dist.	7341 Jun 12 09:20	20°♿24'54	1.35572 AU	max. Earth dist.	7342 May 25 07:21	1°♿29'48	1.37622 AU
	7341 Jun 17 06:28	0°♿					
superior conj	7341 Jun 17 22:40	1°♿21'35	-0°38'52	superior conj	7342 Jun 01 05:27	14°♿27'07	-1°10'02
minimum elong	7341 Jun 18 00:56	1°♿32'59	0°38'32	minimum elong	7342 Jun 01 09:38	14°♿47'18	1°09'26
asc. node	7341 Jun 21 21:00	9°♿23'33		asc. node	7342 Jun 08 18:00	29°♿17'19	
evening rise	7341 Jun 25 20:09	17°♿34'02			7342 Jun 09 02:34	0°♿	
	7341 Jul 02 03:33	0°♿		evening rise	7342 Jun 09 21:34	1°♿34'24	
evening max el	7341 Jul 13 20:58	17°♿04'24	20°14'59	evening max el	7342 Jun 26 13:41	28°♿42'45	19°12'33
retrograde	7341 Jul 24 15:06	22°♿22'06			7342 Jun 27 23:38	0°♿	
evening set	7341 Jul 26 13:37	22°♿12'32		retrograde	7342 Jul 05 15:09	3°♿10'38	
desc. node	7341 Jul 27 01:28	22°♿07'09		evening set	7342 Jul 07 13:12	2°♿59'28	
inferior conj	7341 Aug 04 16:44	18°♿14'35	-2°35'11	desc. node	7342 Jul 13 22:31	0°♿10'30	
minimum elong	7341 Aug 04 09:38	18°♿25'02	2°32'43		7342 Jul 14 05:11	30°♿	
min. Earth dist.	7341 Aug 06 05:54	17°♿19'53	0.54962 AU	inferior conj	7342 Jul 16 00:35	28°♿48'49	-0°37'58
morning rise	7341 Aug 13 04:28	14°♿03'49		minimum elong	7342 Jul 15 22:56	28°♿51'35	0°37'24
direct	7341 Aug 17 09:45	13°♿25'17		min. Earth dist.	7342 Jul 18 19:33	26°♿57'13	0.56091 AU
morning max el	7341 Aug 30 22:09	20°♿01'00	23°49'40	morning rise	7342 Jul 24 05:43	24°♿03'41	
	7341 Sep 08 08:44	0°♿		direct	7342 Jul 29 07:18	23°♿04'36	
asc. node	7341 Sep 17 20:25	15°♿46'50			7342 Aug 12 03:57	0°♿	
morning set	7341 Sep 24 03:11	28°♿28'39		morning max el	7342 Aug 12 11:05	0°♿16'54	25°31'15
	7341 Sep 24 20:20	0°♿			7342 Sep 02 00:52	0°♿	
				asc. node	7342 Sep 04 17:25	5°♿14'48	
				morning set	7342 Sep 08 14:38	13°♿16'53	
superior conj	7341 Oct 01 01:43	13°♿29'17	1°39'13				
minimum elong	7341 Oct 01 00:38	13°♿23'28	1°39'11	superior conj	7342 Sep 15 11:58	28°♿19'13	1°30'37
max. Earth dist.	7341 Oct 03 10:21	18°♿33'45	1.33130 AU	minimum elong	7342 Sep 15 10:05	28°♿08'55	1°30'25
evening rise	7341 Oct 08 13:46	29°♿14'02			7342 Sep 16 06:17	0°♿	
	7341 Oct 08 22:56	0°♿		max. Earth dist.	7342 Sep 16 16:12	0°♿54'25	1.32237 AU
desc. node	7341 Oct 23 00:32	25°♿15'43		evening rise	7342 Sep 22 13:41	13°♿31'52	
	7341 Oct 26 01:53	0°♿			7342 Oct 01 01:13	0°♿	
evening max el	7341 Nov 11 11:10	20°♿30'09	27°25'26	desc. node	7342 Oct 09 21:35	14°♿40'42	
retrograde	7341 Nov 25 01:39	27°♿48'43			7342 Oct 21 13:56	0°♿	
evening set	7341 Dec 02 01:51	25°♿13'43		evening max el	7342 Oct 24 20:29	3°♿20'16	27°23'38
min. Earth dist.	7341 Dec 05 20:24	21°♿51'51	0.64044 AU	retrograde	7342 Nov 07 15:38	10°♿34'09	
inferior conj	7341 Dec 08 08:23	19°♿15'43	-2°08'46	evening set	7342 Nov 14 18:43	8°♿10'35	
minimum elong	7341 Dec 08 12:19	19°♿05'25	2°07'06	min. Earth dist.	7342 Nov 18 10:36	5°♿16'38	0.62187 AU
asc. node	7341 Dec 14 19:45	13°♿58'22		inferior conj	7342 Nov 21 08:59	2°♿33'40	-3°16'40
morning rise	7341 Dec 15 00:24	13°♿53'28		minimum elong	7342 Nov 21 14:59	2°♿19'45	3°14'32
direct	7341 Dec 17 11:40	13°♿22'55			7342 Nov 24 06:54	30°♿	
morning max el	7341 Dec 23 23:37	16°♿46'29	17°51'11	morning rise	7342 Nov 28 13:16	27°♿29'33	
	7342 Jan 02 11:52	0°♿		direct	7342 Nov 30 20:12	27°♿06'22	
morning set	7342 Jan 09 18:50	12°♿17'31		asc. node	7342 Dec 01 16:47	27°♿09'43	
desc. node	7342 Jan 18 23:48	27°♿46'15			7342 Dec 07 01:23	0°♿	
	7342 Jan 20 08:19	0°♿		morning max el	7342 Dec 07 16:10	0°♿34'57	17°50'04
				morning set	7342 Dec 23 12:42	25°♿16'23	
superior conj	7342 Jan 22 18:14	3°♿56'08	-0°26'49		7342 Dec 26 04:12	0°♿	
minimum elong	7342 Jan 22 15:11	3°♿43'48	0°26'19				
max. Earth dist.	7342 Jan 28 02:33	12°♿30'32	1.44738 AU	superior conj	7343 Jan 03 15:39	14°♿47'00	0°16'04
evening rise	7342 Feb 07 14:28	28°♿52'08		minimum elong	7343 Jan 03 17:09	14°♿53'20	0°15'56
	7342 Feb 08 08:10	0°♿		behind sun begin	7343 Jan 03 16:09	14°♿49'04	
	7342 Feb 28 17:01	0°♿		behind sun end	7343 Jan 03 18:09	14°♿57'37	

desc. node	7343 Jan 05 20:47	18°  31'05		evening rise	7343 Dec 29 08:58	18°  34'41	
max. Earth dist.	7343 Jan 10 18:44	26°  37'09	1.43413 AU		7344 Jan 05 15:28	0° 	
	7343 Jan 12 21:03	0° 			7344 Jan 27 03:11	0° 	
evening rise	7343 Jan 18 04:12	8°  22'04		evening max el	7344 Feb 01 00:13	5°  25'46	22°52'50
	7343 Feb 01 13:43	0° 		retrograde	7344 Feb 11 03:12	11°  26'12	
evening max el	7343 Feb 18 07:39	21°  45'50	21°34'33	asc. node	7344 Feb 14 12:58	10°  27'29	
retrograde	7343 Feb 27 07:22	27°  05'15		evening set	7344 Feb 15 22:51	9°  26'59	
asc. node	7343 Feb 27 15:54	27°  04'36		inferior conj	7344 Feb 21 07:48	3°  02'25	2°04'56
evening set	7343 Mar 03 15:40	25°  21'07		minimum elong	7344 Feb 21 05:33	3°  10'11	2°04'15
inferior conj	7343 Mar 08 23:17	19°  04'08	2°39'59	min. Earth dist.	7344 Feb 21 00:05	3°  29'07	0.68322 AU
minimum elong	7343 Mar 08 21:03	19°  11'57	2°39'26		7344 Feb 23 14:12	30° 	
min. Earth dist.	7343 Mar 09 03:27	18°  49'42	0.68212 AU	morning rise	7344 Feb 26 12:10	26°  54'28	
morning rise	7343 Mar 14 02:16	12°  51'50		direct	7344 Mar 01 23:26	25°  05'02	
direct	7343 Mar 19 03:44	10°  40'08			7344 Mar 10 14:11	0° 	
morning max el	7343 Mar 29 05:28	16°  37'58	22°58'04	morning max el	7344 Mar 10 19:21	0°  12'50	21°32'01
desc. node	7343 Apr 03 20:15	22°  59'03		desc. node	7344 Mar 20 17:14	12°  16'01	
	7343 Apr 09 05:49	0° 			7344 Apr 02 00:14	0° 	
	7343 Apr 29 07:36	0° 		morning set	7344 Apr 11 15:26	14°  53'21	
morning set	7343 May 02 17:42	5°  36'12		max. Earth dist.	7344 Apr 18 04:10	25°  27'18	1.41987 AU
max. Earth dist.	7343 May 07 03:39	13°  03'50	1.39854 AU		7344 Apr 20 21:39	0° 	
superior conj	7343 May 14 21:00	26°  47'09	-1°38'50	superior conj	7344 Apr 25 16:37	8°  10'51	-2°01'04
minimum elong	7343 May 15 02:30	27°  12'22	1°38'15	minimum elong	7344 Apr 25 21:27	8°  31'51	2°00'48
	7343 May 16 14:49	0° 		evening rise	7344 May 06 18:09	27°  59'37	
evening rise	7343 May 24 14:10	15°  06'05			7344 May 07 20:32	0° 	
asc. node	7343 May 26 15:01	18°  58'30		asc. node	7344 May 12 12:03	8°  22'03	
	7343 Jun 01 16:49	0° 		evening max el	7344 May 23 02:31	23°  51'23	18°09'18
evening max el	7343 Jun 09 16:44	11°  01'11	18°30'49	retrograde	7344 May 29 22:47	27°  19'16	
retrograde	7343 Jun 17 09:53	14°  51'19		evening set	7344 Jun 01 10:10	26°  52'35	
evening set	7343 Jun 19 13:55	14°  34'04		inferior conj	7344 Jun 08 07:21	22°  02'28	2°14'47
inferior conj	7343 Jun 27 05:22	10°  04'11	1°02'37	minimum elong	7344 Jun 08 10:32	21°  55'10	2°13'49
minimum elong	7343 Jun 27 07:31	9°  59'58	1°01'47	min. Earth dist.	7344 Jun 11 15:16	19°  01'02	0.60089 AU
min. Earth dist.	7343 Jun 30 13:58	7°  27'05	0.57909 AU	morning rise	7344 Jun 15 08:08	16°  13'35	
desc. node	7343 Jun 30 19:33	7°  16'45		desc. node	7344 Jun 16 16:34	15°  28'32	
morning rise	7343 Jul 04 21:43	4°  42'48		direct	7344 Jun 21 20:08	14°  12'16	
direct	7343 Jul 10 19:05	3°  14'12		morning max el	7344 Jul 06 04:30	22°  07'35	27°42'38
morning max el	7343 Jul 25 04:29	10°  52'54	26°53'11		7344 Jul 13 02:37	0° 	
	7343 Aug 08 23:05	0° 			7344 Aug 01 00:19	0° 	
asc. node	7343 Aug 22 14:24	25°  00'22		morning set	7344 Aug 07 06:32	12°  02'42	
morning set	7343 Aug 24 00:20	27°  05'58		asc. node	7344 Aug 08 11:23	14°  05'58	
	7343 Aug 24 23:17	0° 		max. Earth dist.	7344 Aug 13 12:22	25°  05'03	1.31782 AU
superior conj	7343 Aug 30 23:41	13°  00'48	1°16'46	superior conj	7344 Aug 14 11:07	27°  05'31	0°58'11
minimum elong	7343 Aug 30 21:26	12°  58'22	1°16'26	minimum elong	7344 Aug 14 08:58	27°  04'40	0°57'46
max. Earth dist.	7343 Aug 31 02:07	13°  24'21	1.31787 AU		7344 Aug 15 09:05	0° 	
evening rise	7343 Sep 06 19:38	28°  05'12		evening rise	7344 Aug 21 05:23	12°  07'27	
	7343 Sep 07 17:28	0° 			7344 Aug 29 20:26	0° 	
	7343 Sep 24 10:13	0° 		desc. node	7344 Sep 12 15:40	21°  05'50	
desc. node	7343 Sep 26 18:37	3°  23'02		evening max el	7344 Sep 17 19:38	26°  42'20	25°40'45
evening max el	7343 Oct 06 23:54	15°  26'11	26°48'15		7344 Sep 21 17:54	0° 	
retrograde	7343 Oct 20 21:34	22°  35'08		retrograde	7344 Oct 01 18:09	3°  46'16	
evening set	7343 Oct 27 18:46	20°  34'10		evening set	7344 Oct 07 21:11	2°  18'20	
min. Earth dist.	7343 Oct 31 13:56	17°  57'19	0.60136 AU		7344 Oct 11 21:04	30° 	
inferior conj	7343 Nov 03 18:43	15°  21'36	-4°20'44	min. Earth dist.	7344 Oct 12 07:56	29°  41'41	0.58077 AU
minimum elong	7343 Nov 04 01:44	15°  07'21	4°18'51	inferior conj	7344 Oct 15 10:15	27°  30'38	-5°10'34
morning rise	7343 Nov 11 10:58	10°  38'56		minimum elong	7344 Oct 15 15:34	27°  21'13	5°09'47
direct	7343 Nov 13 16:52	10°  19'57		morning rise	7344 Oct 23 12:18	23°  05'50	
asc. node	7343 Nov 18 13:49	11°  54'13		direct	7344 Oct 25 21:20	22°  05'30	
morning max el	7343 Nov 21 04:53	14°  02'17	18°07'57	morning max el	7344 Nov 03 10:14	26°  05'59	18°46'25
	7343 Dec 02 01:38	0° 		asc. node	7344 Nov 04 10:50	28°  01'17	
morning set	7343 Dec 06 22:11	8°  58'37			7344 Nov 06 03:59	0° 	
				morning set	7344 Nov 19 18:34	23°  10'56	
superior conj	7343 Dec 16 13:57	26°  57'49	0°51'02		7344 Nov 23 06:09	0° 	
minimum elong	7343 Dec 16 17:22	27°  04'24	0°50'39	superior conj	7344 Nov 28 08:30	9°  49'12	1°16'27
	7343 Dec 18 08:51	0° 		minimum elong	7344 Nov 28 11:50	10°  57'04	1°16'10
desc. node	7343 Dec 23 17:47	9°  36'50		max. Earth dist.	7344 Dec 05 11:55	22°  53'02	1.39485 AU
max. Earth dist.	7343 Dec 24 05:42	10°  07'03	1.41586 AU				

evening rise	7344 Dec 09 11:30	29° $\text{♁}$ 46'19		evening rise	7345 Nov 21 11:40	11° $\text{♁}$ 55'47	
desc. node	7344 Dec 09 14:47	0° $\text{♁}$ 00'13		desc. node	7345 Nov 26 11:49	20° $\text{♁}$ 37'10	
	7344 Dec 09 14:44	0° $\text{♁}$			7345 Dec 02 05:58	0° $\text{♁}$	
	7344 Dec 29 01:24	0° $\text{♁}$			7345 Dec 24 07:09	0° $\text{♁}$	
evening max el	7345 Jan 13 14:02	19° $\text{♁}$ 09'18	24°12'49	evening max el	7345 Dec 27 03:08	2° $\text{♁}$ 56'07	25°27'39
retrograde	7345 Jan 24 19:36	25° $\text{♁}$ 44'54		retrograde	7346 Jan 08 07:31	9° $\text{♁}$ 56'39	
evening set	7345 Jan 30 03:41	23° $\text{♁}$ 31'29		evening set	7346 Jan 14 04:35	7° $\text{♁}$ 30'57	
asc. node	7345 Jan 31 10:02	22° $\text{♁}$ 19'39		asc. node	7346 Jan 18 07:07	3° $\text{♁}$ 03'45	
min. Earth dist.	7345 Feb 03 20:25	18° $\text{♁}$ 07'36	0.68039 AU	min. Earth dist.	7346 Jan 18 14:06	2° $\text{♁}$ 41'36	0.67382 AU
inferior conj	7345 Feb 04 15:24	17° $\text{♁}$ 03'32	1°21'44	inferior conj	7346 Jan 19 20:18	1° $\text{♁}$ 04'26	0°30'57
minimum elong	7345 Feb 04 13:39	17° $\text{♁}$ 09'27	1°21'07	minimum elong	7346 Jan 19 19:32	1° $\text{♁}$ 06'55	0°30'43
morning rise	7345 Feb 09 23:41	11° $\text{♁}$ 01'27			7346 Jan 20 16:29	30° $\text{♁}$	
direct	7345 Feb 13 21:33	9° $\text{♁}$ 34'16		morning rise	7346 Jan 25 10:50	25° $\text{♁}$ 10'16	
morning max el	7345 Feb 21 16:14	13° $\text{♁}$ 58'57	20°16'12	direct	7346 Jan 28 20:41	24° $\text{♁}$ 03'21	
	7345 Mar 06 04:13	0° $\text{♁}$		morning max el	7346 Feb 04 21:06	27° $\text{♁}$ 56'16	19°14'35
desc. node	7345 Mar 07 14:13	2° $\text{♁}$ 03'06			7346 Feb 06 19:17	0° $\text{♁}$	
morning set	7345 Mar 21 15:36	23° $\text{♁}$ 14'29		greatest brilliancy	7346 Feb 18 03:43	15° $\text{♁}$ 39'14	-0.7m
	7345 Mar 25 23:46	0° $\text{♁}$		desc. node	7346 Feb 22 11:12	22° $\text{♁}$ 12'16	
max. Earth dist.	7345 Mar 31 11:49	8° $\text{♁}$ 43'27	1.43760 AU		7346 Feb 27 12:44	0° $\text{♁}$	
				morning set	7346 Feb 28 15:51	1° $\text{♁}$ 44'50	
superior conj	7345 Apr 06 12:05	18° $\text{♁}$ 29'41	-2°11'04	max. Earth dist.	7346 Mar 14 02:29	22° $\text{♁}$ 42'50	1.44961 AU
minimum elong	7345 Apr 06 12:41	18° $\text{♁}$ 32'11	2°11'06				
	7345 Apr 13 08:44	0° $\text{♁}$		superior conj	7346 Mar 17 07:28	27° $\text{♁}$ 47'17	-2°03'03
evening rise	7345 Apr 19 04:57	10° $\text{♁}$ 04'18		minimum elong	7346 Mar 17 01:14	27° $\text{♁}$ 22'35	2°02'44
asc. node	7345 Apr 29 09:06	27° $\text{♁}$ 21'13			7346 Mar 18 16:50	0° $\text{♁}$	
	7345 May 01 02:18	0° $\text{♁}$		evening rise	7346 Mar 31 18:14	21° $\text{♁}$ 12'42	
evening max el	7345 May 06 15:27	7° $\text{♁}$ 03'28	18°07'08		7346 Apr 06 01:46	0° $\text{♁}$	
retrograde	7345 May 13 01:49	10° $\text{♁}$ 24'25		asc. node	7346 Apr 16 06:11	15° $\text{♁}$ 48'19	
evening set	7345 May 15 20:27	9° $\text{♁}$ 45'51		evening max el	7346 Apr 20 04:23	20° $\text{♁}$ 29'32	18°23'33
inferior conj	7345 May 22 03:07	4° $\text{♁}$ 36'18	2°59'21	retrograde	7346 Apr 26 14:46	23° $\text{♁}$ 57'37	
minimum elong	7345 May 22 05:34	4° $\text{♁}$ 29'53	2°58'50	evening set	7346 Apr 29 16:23	23° $\text{♁}$ 05'49	
min. Earth dist.	7345 May 25 00:55	1° $\text{♁}$ 35'10	0.62312 AU	inferior conj	7346 May 05 12:32	17° $\text{♁}$ 38'05	3°21'22
	7345 May 26 17:03	30° $\text{♁}$		minimum elong	7346 May 05 13:37	17° $\text{♁}$ 34'56	3°21'13
morning rise	7345 May 28 12:56	28° $\text{♁}$ 30'52		min. Earth dist.	7346 May 07 19:44	14° $\text{♁}$ 58'08	0.64320 AU
desc. node	7345 Jun 03 13:37	26° $\text{♁}$ 04'10		morning rise	7346 May 11 09:56	11° $\text{♁}$ 24'21	
direct	7345 Jun 04 07:40	26° $\text{♁}$ 02'25		direct	7346 May 18 03:31	8° $\text{♁}$ 40'10	
	7345 Jun 13 20:00	0° $\text{♁}$		desc. node	7346 May 21 10:38	9° $\text{♁}$ 14'33	
morning max el	7345 Jun 18 10:15	4° $\text{♁}$ 04'27	27°54'10	morning max el	7346 May 31 19:35	16° $\text{♁}$ 38'34	27°29'16
	7345 Jul 07 18:11	0° $\text{♁}$			7346 Jun 11 20:44	0° $\text{♁}$	
morning set	7345 Jul 22 07:10	26° $\text{♁}$ 35'52			7346 Jun 30 13:24	0° $\text{♁}$	
	7345 Jul 23 22:55	0° $\text{♁}$		morning set	7346 Jul 05 23:44	10° $\text{♁}$ 18'37	
asc. node	7345 Jul 26 08:22	5° $\text{♁}$ 02'01		max. Earth dist.	7346 Jul 10 18:35	19° $\text{♁}$ 59'45	1.33165 AU
max. Earth dist.	7345 Jul 27 19:05	8° $\text{♁}$ 07'59	1.32236 AU	asc. node	7346 Jul 13 05:24	25° $\text{♁}$ 08'37	
superior conj	7345 Jul 29 20:24	12° $\text{♁}$ 35'31	0°35'17	superior conj	7346 Jul 14 01:39	26° $\text{♁}$ 56'19	0°08'38
minimum elong	7345 Jul 29 18:52	12° $\text{♁}$ 27'05	0°34'54	minimum elong	7346 Jul 14 01:13	26° $\text{♁}$ 54'01	0°08'27
evening rise	7345 Aug 05 16:55	27° $\text{♁}$ 31'25		behind sun begin	7346 Jul 13 20:34	26° $\text{♁}$ 29'12	
	7345 Aug 06 20:54	0° $\text{♁}$		behind sun end	7346 Jul 14 05:53	27° $\text{♁}$ 18'53	
	7345 Aug 24 00:50	0° $\text{♁}$			7346 Jul 15 11:58	0° $\text{♁}$	
evening max el	7345 Aug 30 08:46	7° $\text{♁}$ 15'12	24°09'54	evening rise	7346 Jul 21 04:23	12° $\text{♁}$ 11'40	
desc. node	7345 Aug 30 12:44	7° $\text{♁}$ 24'41			7346 Jul 30 05:40	0° $\text{♁}$	
retrograde	7345 Sep 13 02:45	14° $\text{♁}$ 09'06		evening max el	7346 Aug 11 21:21	17° $\text{♁}$ 30'31	22°30'59
evening set	7345 Sep 17 22:49	13° $\text{♁}$ 17'31		desc. node	7346 Aug 17 09:47	21° $\text{♁}$ 49'14	
min. Earth dist.	7345 Sep 23 19:34	10° $\text{♁}$ 22'31	0.56282 AU	retrograde	7346 Aug 24 22:39	24° $\text{♁}$ 00'43	
inferior conj	7345 Sep 26 05:30	8° $\text{♁}$ 52'56	-5°30'05	evening set	7346 Aug 28 06:29	23° $\text{♁}$ 36'25	
minimum elong	7345 Sep 26 05:10	8° $\text{♁}$ 53'27	5°30'03	min. Earth dist.	7346 Sep 05 04:23	20° $\text{♁}$ 07'41	0.55077 AU
morning rise	7345 Oct 04 13:44	4° $\text{♁}$ 53'31		inferior conj	7346 Sep 06 06:43	19° $\text{♁}$ 30'24	-5°01'17
direct	7345 Oct 07 06:42	4° $\text{♁}$ 34'20		minimum elong	7346 Sep 05 23:25	19° $\text{♁}$ 40'45	5°00'04
morning max el	7345 Oct 17 04:41	9° $\text{♁}$ 13'56	19°47'01	morning rise	7346 Sep 14 18:13	15° $\text{♁}$ 41'53	
asc. node	7345 Oct 22 07:51	15° $\text{♁}$ 15'00		direct	7346 Sep 17 22:53	15° $\text{♁}$ 18'40	
	7345 Oct 31 00:54	0° $\text{♁}$		morning max el	7346 Sep 29 10:19	20° $\text{♁}$ 40'51	21°09'29
morning set	7345 Nov 03 22:18	7° $\text{♁}$ 42'57			7346 Oct 07 01:38	0° $\text{♁}$	
				asc. node	7346 Oct 09 04:52	3° $\text{♁}$ 20'47	
superior conj	7345 Nov 11 18:09	23° $\text{♁}$ 32'24	1°32'40	morning set	7346 Oct 19 06:41	22° $\text{♁}$ 27'09	
minimum elong	7345 Nov 11 20:24	23° $\text{♁}$ 43'32	1°32'34		7346 Oct 22 21:14	0° $\text{♁}$	
	7345 Nov 15 01:26	0° $\text{♁}$					
max. Earth dist.	7345 Nov 17 17:32	5° $\text{♁}$ 03'50	1.37355 AU	superior conj	7346 Oct 26 14:35	7° $\text{♁}$ 46'24	1°40'42

minimum elong	7346 Oct 26 15:26	7° $\mathbb{M}$ 50'48	1°40'43	superior conj	7347 Oct 10 18:27	22° $\underline{\mathfrak{A}}$ 21'25	1°41'35
max. Earth dist.	7346 Oct 31 03:34	16° $\mathbb{M}$ 58'32	1.35422 AU	minimum elong	7347 Oct 10 18:00	22° $\underline{\mathfrak{A}}$ 19'01	1°41'37
evening rise	7346 Nov 04 06:06	24° $\mathbb{M}$ 54'12		max. Earth dist.	7347 Oct 13 21:22	28° $\underline{\mathfrak{A}}$ 56'46	1.33840 AU
	7346 Nov 07 00:17	0° $\mathfrak{A}$			7347 Oct 14 09:33	0° $\mathbb{M}$	
desc. node	7346 Nov 13 08:51	11° $\mathfrak{A}$ 02'59		evening rise	7347 Oct 18 14:47	8° $\mathbb{M}$ 31'32	
	7346 Nov 25 18:51	0° $\mathfrak{B}$			7347 Oct 30 12:17	0° $\mathfrak{A}$	
evening max el	7346 Dec 09 16:17	16° $\mathfrak{B}$ 40'29	26°29'57	desc. node	7347 Oct 31 05:53	1° $\mathfrak{A}$ 11'59	
retrograde	7346 Dec 22 14:05	23° $\mathfrak{B}$ 55'05			7347 Nov 21 23:33	0° $\mathfrak{B}$	
evening set	7346 Dec 28 23:44	21° $\mathfrak{B}$ 20'33		evening max el	7347 Nov 22 05:09	0° $\mathfrak{B}$ 13'26	27°12'27
min. Earth dist.	7347 Jan 02 02:45	17° $\mathfrak{B}$ 06'12	0.66362 AU	retrograde	7347 Dec 05 14:55	7° $\mathfrak{B}$ 33'00	
inferior conj	7347 Jan 03 20:29	15° $\mathfrak{B}$ 00'46	-0°26'45	evening set	7347 Dec 12 10:59	4° $\mathfrak{B}$ 55'31	
minimum elong	7347 Jan 03 21:13	14° $\mathfrak{B}$ 58'34	0°26'20	min. Earth dist.	7347 Dec 16 08:09	1° $\mathfrak{B}$ 15'29	0.64988 AU
asc. node	7347 Jan 05 04:11	13° $\mathfrak{B}$ 26'55			7347 Dec 17 11:43	30° $\mathfrak{R}$ $\mathfrak{A}$	
morning rise	7347 Jan 09 19:29	9° $\mathfrak{B}$ 16'56		inferior conj	7347 Dec 18 13:41	28° $\mathfrak{A}$ 47'57	-1°30'14
direct	7347 Jan 12 18:56	8° $\mathfrak{B}$ 27'09		minimum elong	7347 Dec 18 16:22	28° $\mathfrak{A}$ 40'30	1°29'02
morning max el	7347 Jan 19 08:43	12° $\mathfrak{B}$ 00'18	18°28'56	asc. node	7347 Dec 23 01:12	24° $\mathfrak{A}$ 26'47	
	7347 Feb 01 09:07	0° $\approx$		morning rise	7347 Dec 24 23:05	23° $\mathfrak{A}$ 17'12	
morning set	7347 Feb 08 14:30	11° $\approx$ 26'44		direct	7347 Dec 27 14:07	22° $\mathfrak{A}$ 40'48	
desc. node	7347 Feb 09 08:11	12° $\approx$ 36'58		morning max el	7348 Jan 03 00:42	26° $\mathfrak{A}$ 05'05	18°00'02
	7347 Feb 20 08:26	0° $\mathfrak{H}$			7348 Jan 06 09:32	0° $\mathfrak{B}$	
superior conj	7347 Feb 24 12:21	6° $\mathfrak{H}$ 31'38	-1°35'05	morning set	7348 Jan 20 18:51	22° $\mathfrak{B}$ 37'37	
minimum elong	7347 Feb 24 02:45	5° $\mathfrak{H}$ 54'02	1°34'05		7348 Jan 25 06:02	0° $\approx$	
max. Earth dist.	7347 Feb 24 21:20	7° $\mathfrak{H}$ 06'49	1.45457 AU	desc. node	7348 Jan 27 05:11	3° $\approx$ 12'53	
	7347 Mar 11 10:49	0° $\mathfrak{Y}$		superior conj	7348 Feb 03 22:01	15° $\approx$ 36'45	-0°53'06
evening rise	7347 Mar 12 08:03	1° $\mathfrak{Y}$ 23'57		minimum elong	7348 Feb 03 15:44	15° $\approx$ 11'49	0°52'13
greatest brilliancy	7347 Mar 21 17:58	16° $\mathfrak{Y}$ 15'35	-0.8m	max. Earth dist.	7348 Feb 07 17:03	21° $\approx$ 36'39	1.45207 AU
	7347 Mar 31 03:21	0° $\mathfrak{B}$			7348 Feb 13 01:47	0° $\mathfrak{H}$	
asc. node	7347 Apr 03 03:16	3° $\mathfrak{B}$ 32'38		evening rise	7348 Feb 20 02:28	10° $\mathfrak{H}$ 53'01	
evening max el	7347 Apr 03 14:40	4° $\mathfrak{B}$ 02'09	18°57'43		7348 Mar 03 15:25	0° $\mathfrak{Y}$	
retrograde	7347 Apr 10 09:43	7° $\mathfrak{B}$ 50'09		greatest brilliancy	7348 Mar 05 02:01	2° $\mathfrak{Y}$ 08'27	-0.6m
evening set	7347 Apr 13 18:35	6° $\mathfrak{B}$ 44'21		evening max el	7348 Mar 16 20:24	17° $\mathfrak{Y}$ 37'49	19°48'13
inferior conj	7347 Apr 19 07:47	1° $\mathfrak{B}$ 00'01	3°25'52	asc. node	7348 Mar 20 00:19	20° $\mathfrak{Y}$ 21'55	
minimum elong	7347 Apr 19 07:29	1° $\mathfrak{B}$ 00'57	3°25'49	retrograde	7348 Mar 24 07:36	21° $\mathfrak{Y}$ 56'14	
	7347 Apr 20 02:44	30° $\mathfrak{R}$ $\mathfrak{Y}$		evening set	7348 Mar 28 00:32	20° $\mathfrak{Y}$ 36'00	
min. Earth dist.	7347 Apr 20 23:27	28° $\mathfrak{Y}$ 54'56	0.65962 AU	inferior conj	7348 Apr 02 09:45	14° $\mathfrak{Y}$ 37'04	3°16'38
morning rise	7347 Apr 24 19:57	24° $\mathfrak{Y}$ 43'13		minimum elong	7348 Apr 02 08:23	14° $\mathfrak{Y}$ 41'39	3°16'26
direct	7347 May 01 06:12	21° $\mathfrak{Y}$ 55'50		min. Earth dist.	7348 Apr 03 10:42	13° $\mathfrak{Y}$ 13'41	0.67179 AU
desc. node	7347 May 08 07:39	24° $\mathfrak{Y}$ 32'54		morning rise	7348 Apr 07 15:57	8° $\mathfrak{Y}$ 20'21	
morning max el	7347 May 14 05:58	29° $\mathfrak{Y}$ 38'30	26°34'06	direct	7348 Apr 13 14:58	5° $\mathfrak{Y}$ 40'46	
	7347 May 14 14:24	0° $\mathfrak{B}$		desc. node	7348 Apr 24 04:40	11° $\mathfrak{Y}$ 27'34	
	7347 Jun 05 18:17	0° $\mathbb{I}$		morning max el	7348 Apr 25 15:36	12° $\mathfrak{Y}$ 53'02	25°17'28
morning set	7347 Jun 19 04:56	23° $\mathbb{I}$ 25'34			7348 May 09 10:58	0° $\mathfrak{B}$	
	7347 Jun 22 14:51	0° $\mathfrak{E}$			7348 May 28 12:28	0° $\mathbb{I}$	
max. Earth dist.	7347 Jun 23 07:52	1° $\mathfrak{E}$ 23'50	1.34564 AU	morning set	7348 May 31 18:24	5° $\mathbb{I}$ 44'45	
				max. Earth dist.	7348 Jun 04 10:18	12° $\mathbb{I}$ 28'08	1.36402 AU
superior conj	7347 Jun 28 00:30	10° $\mathfrak{E}$ 53'59	-0°21'00	superior conj	7348 Jun 10 14:07	24° $\mathbb{I}$ 20'52	-0°52'11
minimum elong	7347 Jun 28 01:40	11° $\mathfrak{E}$ 00'03	0°20'51	minimum elong	7348 Jun 10 17:12	24° $\mathbb{I}$ 36'12	0°51'42
asc. node	7347 Jun 30 02:26	15° $\mathfrak{E}$ 13'33			7348 Jun 13 09:51	0° $\mathfrak{E}$	
evening rise	7347 Jul 05 13:46	26° $\mathfrak{E}$ 41'52		asc. node	7348 Jun 15 23:27	5° $\mathfrak{E}$ 12'37	
	7347 Jul 07 04:09	0° $\mathfrak{Q}$		evening rise	7348 Jun 18 18:50	10° $\mathfrak{E}$ 55'09	
evening max el	7347 Jul 24 17:53	28° $\mathfrak{Q}$ 03'18	20°59'50		7348 Jun 29 00:35	0° $\mathfrak{Q}$	
	7347 Jul 26 21:55	0° $\mathfrak{M}$		evening max el	7348 Jul 06 03:17	9° $\mathfrak{Q}$ 16'15	19°45'55
desc. node	7347 Aug 04 06:50	3° $\mathfrak{M}$ 48'00		retrograde	7348 Jul 16 03:58	14° $\mathfrak{Q}$ 12'25	
retrograde	7347 Aug 05 11:23	3° $\mathfrak{M}$ 51'29		evening set	7348 Jul 18 00:41	14° $\mathfrak{Q}$ 02'56	
evening set	7347 Aug 07 16:46	3° $\mathfrak{M}$ 39'46		desc. node	7348 Jul 21 03:53	13° $\mathfrak{Q}$ 08'02	
	7347 Aug 16 11:01	30° $\mathfrak{R}$ $\mathfrak{Q}$		inferior conj	7348 Jul 26 22:10	10° $\mathfrak{Q}$ 00'51	-1°44'59
inferior conj	7347 Aug 16 23:26	29° $\mathfrak{Q}$ 42'28	-3°39'17	minimum elong	7348 Jul 26 17:21	10° $\mathfrak{Q}$ 08'20	1°43'13
minimum elong	7347 Aug 16 14:19	29° $\mathfrak{Q}$ 55'22	3°36'32	min. Earth dist.	7348 Jul 29 01:46	8° $\mathfrak{Q}$ 41'11	0.55330 AU
min. Earth dist.	7347 Aug 17 13:44	29° $\mathfrak{Q}$ 22'15	0.54722 AU	morning rise	7348 Aug 04 07:53	5° $\mathfrak{Q}$ 36'13	
morning rise	7347 Aug 25 12:11	25° $\mathfrak{Q}$ 45'59		direct	7348 Aug 08 21:12	4° $\mathfrak{Q}$ 50'21	
direct	7347 Aug 29 07:05	25° $\mathfrak{Q}$ 15'15		morning max el	7348 Aug 22 18:10	11° $\mathfrak{Q}$ 43'34	24°34'19
	7347 Sep 09 14:26	0° $\mathfrak{M}$			7348 Sep 05 16:05	0° $\mathfrak{M}$	
morning max el	7347 Sep 11 04:59	1° $\mathfrak{M}$ 24'43	22°49'02	asc. node	7348 Sep 11 22:51	11° $\mathfrak{M}$ 21'24	
asc. node	7347 Sep 26 01:52	22° $\mathfrak{M}$ 06'28		morning set	7348 Sep 17 05:24	22° $\mathfrak{M}$ 08'11	
	7347 Sep 30 04:45	0° $\underline{\mathfrak{A}}$			7348 Sep 20 20:43	0° $\underline{\mathfrak{A}}$	
morning set	7347 Oct 03 17:40	7° $\underline{\mathfrak{A}}$ 17'39					

superior conj	7348 Sep 24 02:59	7°♊08'12	1°36'15		7349 Aug 29 08:27	0°♍	
minimum elong	7348 Sep 24 01:32	7°♊00'14	1°36'09	asc. node	7349 Aug 29 19:51	0°♍57'50	
max. Earth dist.	7348 Sep 25 23:10	11°♊08'18	1.32690 AU	morning set	7349 Sep 01 16:18	6°♍54'08	
evening rise	7348 Oct 01 10:01	22°♊37'13					
	7348 Oct 05 03:14	0°♌		superior conj	7349 Sep 08 14:06	22°♍00'01	1°25'21
desc. node	7348 Oct 17 02:55	20°♌55'51		minimum elong	7349 Sep 08 12:01	21°♍48'31	1°25'07
	7348 Oct 23 06:59	0°♌		max. Earth dist.	7349 Sep 09 07:00	23°♍33'23	1.31990 AU
evening max el	7348 Nov 03 16:15	13°♌22'27	27°28'32		7349 Sep 12 05:33	0°♎	
retrograde	7348 Nov 17 09:18	20°♌40'12		evening rise	7349 Sep 15 12:49	7°♎02'58	
evening set	7348 Nov 24 11:34	18°♌08'28			7349 Sep 27 14:59	0°♌	
min. Earth dist.	7348 Nov 28 04:24	14°♌59'30	0.63286 AU	desc. node	7349 Oct 03 23:57	10°♌04'32	
inferior conj	7348 Nov 30 21:12	12°♌18'38	-2°37'35	evening max el	7349 Oct 16 23:27	25°♌55'31	27°12'45
minimum elong	7348 Dec 01 02:04	12°♌06'32	2°35'40		7349 Oct 22 00:10	0°♌	
morning rise	7348 Dec 07 18:25	7°♌03'56		retrograde	7349 Oct 30 20:16	3°♌07'29	
asc. node	7348 Dec 08 22:14	6°♌44'12		evening set	7349 Nov 06 21:51	0°♌52'23	
direct	7348 Dec 10 03:21	6°♌37'06			7349 Nov 08 04:56	30°♌	
morning max el	7348 Dec 16 17:57	10°♌01'53	17°48'28	min. Earth dist.	7349 Nov 10 14:12	28°♌07'01	0.61331 AU
	7348 Dec 30 03:13	0°♍		inferior conj	7349 Nov 13 15:55	25°♌25'11	-3°44'49
morning set	7349 Jan 02 00:53	5°♍02'40		minimum elong	7349 Nov 13 22:33	25°♌10'35	3°42'40
desc. node	7349 Jan 13 02:11	23°♍55'25		morning rise	7349 Nov 21 01:25	20°♌29'40	
				direct	7349 Nov 23 07:20	20°♌08'43	
superior conj	7349 Jan 14 04:30	25°♍44'27	-0°07'56	asc. node	7349 Nov 25 19:15	20°♌35'36	
minimum elong	7349 Jan 14 03:40	25°♍41'00	0°07'44	morning max el	7349 Nov 30 09:16	23°♌42'26	17°55'08
behind sun begin	7349 Jan 13 19:18	25°♍06'25			7349 Dec 05 09:57	0°♌	
behind sun end	7349 Jan 14 12:02	26°♍15'32		morning set	7349 Dec 16 02:04	18°♌21'56	
	7349 Jan 16 18:49	0°♎			7349 Dec 22 12:06	0°♍	
max. Earth dist.	7349 Jan 20 10:36	5°♎54'07	1.44245 AU				
evening rise	7349 Jan 29 13:18	20°♎11'08		superior conj	7349 Dec 26 12:50	7°♍06'23	0°32'02
	7349 Feb 05 00:01	0°♏		minimum elong	7349 Dec 26 15:27	7°♍17'47	0°31'45
	7349 Feb 26 16:15	0°♏		desc. node	7349 Dec 30 23:08	14°♍40'56	
evening max el	7349 Feb 27 20:43	1°♏15'16	20°52'42	max. Earth dist.	7350 Jan 03 00:16	19°♍45'07	1.42688 AU
asc. node	7349 Mar 06 21:21	6°♏01'54		evening rise	7350 Jan 09 08:05	29°♍56'13	
retrograde	7349 Mar 08 06:03	6°♏11'33			7350 Jan 09 09:02	0°♎	
evening set	7349 Mar 12 08:16	4°♏36'23			7350 Jan 29 14:29	0°♏	
	7349 Mar 16 12:11	30°♏		evening max el	7350 Feb 10 15:54	14°♏54'35	22°07'23
inferior conj	7349 Mar 17 15:55	28°♏25'17	2°56'12	retrograde	7350 Feb 20 03:09	20°♏31'33	
minimum elong	7349 Mar 17 13:51	28°♏32'22	2°55'46	asc. node	7350 Feb 21 18:25	20°♏17'46	
min. Earth dist.	7349 Mar 18 03:23	27°♏45'41	0.67957 AU	evening set	7350 Feb 24 16:05	18°♏41'11	
morning rise	7349 Mar 22 19:14	22°♏10'47		inferior conj	7350 Mar 02 00:06	12°♏20'46	2°26'10
direct	7349 Mar 28 04:51	19°♏47'10		minimum elong	7350 Mar 01 21:48	12°♏28'46	2°25'32
morning max el	7349 Apr 08 00:30	26°♏14'51	23°49'37	min. Earth dist.	7350 Mar 01 23:12	12°♏23'54	0.68309 AU
desc. node	7349 Apr 11 01:41	29°♏32'19		morning rise	7350 Mar 07 03:20	6°♏10'03	
	7349 Apr 11 11:19	0°♏		direct	7350 Mar 11 22:49	4°♏07'24	
	7349 May 03 00:31	0°♐		morning max el	7350 Mar 21 11:20	9°♏43'23	22°20'29
morning set	7349 May 13 10:43	17°♐01'54		desc. node	7350 Mar 28 22:39	18°♏27'05	
max. Earth dist.	7349 May 17 06:09	23°♐39'33	1.38556 AU		7350 Apr 06 08:43	0°♏	
	7349 May 20 18:44	0°♑		morning set	7350 Apr 24 00:24	27°♏02'42	
					7350 Apr 25 19:44	0°♐	
superior conj	7349 May 24 14:58	7°♑08'35	-1°22'46	max. Earth dist.	7350 Apr 29 03:24	5°♐32'11	1.40791 AU
minimum elong	7349 May 24 19:50	7°♑31'38	1°22'08				
evening rise	7349 Jun 02 16:55	24°♑44'28		superior conj	7350 May 06 22:37	19°♐06'06	-1°49'23
asc. node	7349 Jun 02 20:28	25°♑01'51		minimum elong	7350 May 07 04:11	19°♐31'00	1°48'55
	7349 Jun 05 09:56	0°♒			7350 May 12 21:49	0°♑	
evening max el	7349 Jun 19 00:55	21°♒13'19	18°52'24	evening rise	7350 May 17 04:37	8°♑00'45	
retrograde	7349 Jun 27 11:22	25°♒23'06		asc. node	7350 May 20 17:30	14°♑36'06	
evening set	7349 Jun 29 11:30	25°♒09'54			7350 May 30 01:33	0°♒	
inferior conj	7349 Jul 07 14:32	20°♒51'57	0°07'47	evening max el	7350 Jun 02 07:21	3°♒46'32	18°19'17
minimum elong	7349 Jul 07 14:51	20°♒51'24	0°07'35	retrograde	7350 Jun 09 13:57	7°♒24'52	
transit middle	7349 Jul 07 14:51	20°♒51'24	0°07'35	evening set	7350 Jun 11 21:15	7°♒03'49	
transit begin	7349 Jul 07 11:34	20°♒57'16		inferior conj	7350 Jun 19 04:32	2°♒25'18	1°36'51
transit end	7349 Jul 07 18:08	20°♒45'31		minimum elong	7350 Jun 19 07:25	2°♒19'15	1°35'49
desc. node	7349 Jul 08 00:56	20°♒33'18			7350 Jun 22 01:58	30°♒	
min. Earth dist.	7349 Jul 10 17:31	18°♒38'39	0.56792 AU	min. Earth dist.	7350 Jun 22 14:24	29°♒35'01	0.58817 AU
morning rise	7349 Jul 15 14:48	15°♒50'43		desc. node	7350 Jun 24 21:59	27°♒52'46	
direct	7349 Jul 21 01:18	14°♒39'37		morning rise	7350 Jun 26 14:26	26°♒51'17	
morning max el	7349 Aug 04 08:25	22°♒05'10	26°09'20	direct	7350 Jul 02 19:07	25°♒08'32	
	7349 Aug 11 08:01	0°♓			7350 Jul 13 22:22	0°♒	

morning max el	7350 Jul 17 04:16	2°☿54'47	27°18'40		7351 Jul 11 19:49	0°☿	
	7350 Aug 05 20:18	0°♊			7351 Jul 29 07:23	0°♊	
asc. node	7350 Aug 16 16:51	20°♊48'49		morning set	7351 Aug 01 04:48	5°♊50'50	
morning set	7350 Aug 17 00:42	21°♊30'03		asc. node	7351 Aug 03 13:51	10°♊49'24	
	7350 Aug 20 23:33	0°♋		max. Earth dist.	7351 Aug 07 02:56	18°♊28'35	1.31922 AU
max. Earth dist.	7350 Aug 23 17:32	6°♋03'54	1.31733 AU				
				superior conj	7351 Aug 08 12:38	21°♊33'35	0°48'58
superior conj	7350 Aug 24 01:54	6°♋50'16	1°09'27	minimum elong	7351 Aug 08 10:41	21°♊22'50	0°48'32
minimum elong	7350 Aug 23 23:39	6°♋37'44	1°09'04		7351 Aug 12 08:35	0°♋	
evening rise	7350 Aug 30 20:39	21°♋40'48		evening rise	7351 Aug 15 07:25	6°♋24'15	
	7350 Sep 03 21:15	0°♌			7351 Aug 27 14:09	0°♌	
desc. node	7350 Sep 20 21:01	28°♌23'56		desc. node	7351 Sep 07 18:06	15°♌34'06	
	7350 Sep 22 02:33	0°♍		evening max el	7351 Sep 10 16:28	18°♌36'34	25°04'07
evening max el	7350 Sep 29 00:01	7°♍41'26	26°23'13	retrograde	7351 Sep 24 13:34	25°♌37'02	
retrograde	7350 Oct 12 22:13	14°♍47'28		evening set	7351 Sep 30 05:09	24°♌24'36	
evening set	7350 Oct 19 13:18	12°♍59'51		min. Earth dist.	7351 Oct 05 03:52	21°♌42'38	0.57261 AU
min. Earth dist.	7350 Oct 23 13:23	10°♍25'17	0.59250 AU	inferior conj	7351 Oct 08 01:16	19°♌47'28	-5°23'43
inferior conj	7350 Oct 26 18:20	7°♍58'13	-4°44'28	minimum elong	7351 Oct 08 04:39	19°♌41'49	5°23'24
minimum elong	7350 Oct 27 01:04	7°♍45'18	4°42'58	morning rise	7351 Oct 16 06:26	15°♌37'13	
morning rise	7350 Nov 03 15:05	3°♍24'51		direct	7351 Oct 18 18:29	15°♌19'07	
direct	7350 Nov 05 21:50	3°♍06'39		morning max el	7351 Oct 27 20:17	19°♌37'35	19°09'33
asc. node	7350 Nov 12 16:17	5°♍57'00		asc. node	7351 Oct 30 13:19	22°♌34'07	
morning max el	7350 Nov 13 19:14	6°♍57'50	18°21'38		7351 Nov 04 17:11	0°♎	
	7350 Nov 28 11:33	0°♏		morning set	7351 Nov 13 16:41	16°♎41'14	
morning set	7350 Nov 29 16:46	2°♏19'10			7351 Nov 20 09:51	0°♏	
superior conj	7350 Dec 08 20:26	19°♏35'20	1°03'00	superior conj	7351 Nov 21 22:03	2°♏55'52	1°24'24
minimum elong	7350 Dec 09 00:00	19°♏51'41	1°02'37	minimum elong	7351 Nov 22 01:00	3°♏10'05	1°24'11
	7350 Dec 14 16:07	0°♐		max. Earth dist.	7351 Nov 28 15:20	15°♏30'11	1.38565 AU
max. Earth dist.	7350 Dec 16 09:34	2°♐59'06	1.40718 AU	evening rise	7351 Dec 02 09:54	22°♏10'56	
desc. node	7350 Dec 17 20:08	5°♐26'19		desc. node	7351 Dec 04 17:09	26°♏07'30	
evening rise	7350 Dec 20 21:53	10°♐34'04			7351 Dec 07 00:49	0°♑	
	7351 Jan 02 08:16	0°♒			7351 Dec 27 06:28	0°♒	
evening max el	7351 Jan 24 07:15	28°♒37'00	23°27'04	evening max el	7352 Jan 06 20:28	12°♒22'02	24°45'36
	7351 Jan 25 17:45	0°♓		retrograde	7352 Jan 18 12:08	19°♒09'32	
retrograde	7351 Feb 03 21:32	4°♓52'39		evening set	7352 Jan 24 01:51	16°♒50'15	
evening set	7351 Feb 08 22:28	2°♓47'11		asc. node	7352 Jan 26 12:34	14°♒20'39	
asc. node	7351 Feb 08 15:29	3°♓01'31		min. Earth dist.	7352 Jan 28 15:18	11°♒41'17	0.67810 AU
	7351 Feb 11 14:18	30°♓♐		inferior conj	7352 Jan 29 15:09	10°♒22'18	1°01'03
inferior conj	7351 Feb 14 08:27	26°♒20'55	1°47'34	minimum elong	7352 Jan 29 13:45	10°♒26'56	1°00'35
minimum elong	7351 Feb 14 06:22	26°♒28'06	1°46'53	morning rise	7352 Feb 04 01:50	4°♒23'36	
min. Earth dist.	7351 Feb 13 19:55	27°♒03'58	0.68254 AU	direct	7352 Feb 07 18:23	3°♒05'31	
morning rise	7351 Feb 19 14:13	20°♒15'26		morning max el	7352 Feb 15 04:23	7°♒14'57	19°48'07
direct	7351 Feb 23 19:44	18°♒35'30		greatest brilliancy	7352 Feb 28 01:48	24°♒03'01	-0.6m
morning max el	7351 Mar 04 03:57	23°♒23'08	20°58'14	desc. node	7352 Mar 01 16:35	27°♒55'19	
	7351 Mar 09 21:38	0°♔			7352 Mar 03 01:54	0°♔	
desc. node	7351 Mar 15 19:37	7°♔58'11		morning set	7352 Mar 12 08:18	14°♔06'52	
	7351 Mar 30 16:47	0°♕			7352 Mar 22 12:39	0°♕	
morning set	7351 Apr 03 11:16	5°♕50'47		max. Earth dist.	7352 Mar 23 18:33	1°♕58'33	1.44352 AU
max. Earth dist.	7351 Apr 11 07:30	18°♕21'33	1.42808 AU				
				superior conj	7352 Mar 28 17:03	9°♕53'43	-2°10'08
superior conj	7351 Apr 18 08:22	0°♖03'07	-2°07'09	minimum elong	7352 Mar 28 14:49	9°♕44'40	2°10'06
minimum elong	7351 Apr 18 11:54	0°♖18'06	2°07'05		7352 Apr 09 19:50	0°♖	
	7351 Apr 18 07:38	0°♗		evening rise	7352 Apr 11 04:00	2°♖16'35	
evening rise	7351 Apr 30 01:53	20°♖34'56		asc. node	7352 Apr 23 11:38	22°♖36'52	
	7351 May 05 09:06	0°♘			7352 Apr 29 05:53	0°♘	
asc. node	7351 May 07 14:33	3°♘50'11		evening max el	7352 Apr 29 08:04	0°♘05'28	18°11'50
evening max el	7351 May 16 18:52	16°♘46'57	18°05'59	retrograde	7352 May 05 17:29	3°♘28'13	
retrograde	7351 May 23 09:32	20°♘10'05		evening set	7352 May 08 14:59	2°♘44'15	
evening set	7351 May 26 00:08	19°♘38'26			7352 May 12 06:04	30°♘♐	
inferior conj	7351 Jun 01 14:35	14°♘39'31	2°36'47	inferior conj	7352 May 14 16:42	27°♘26'34	3°11'06
minimum elong	7351 Jun 01 17:36	14°♘32'12	2°35'59	minimum elong	7352 May 14 18:36	27°♘21'21	3°10'47
min. Earth dist.	7351 Jun 04 18:51	11°♘35'40	0.61053 AU	min. Earth dist.	7352 May 17 08:30	24°♘32'16	0.63198 AU
morning rise	7351 Jun 08 08:48	8°♘42'25		morning rise	7352 May 20 20:49	21°♘16'28	
desc. node	7351 Jun 11 19:02	7°♘00'03		direct	7352 May 27 15:44	18°♘39'55	
direct	7351 Jun 15 00:35	6°♘28'51		desc. node	7352 May 28 16:03	18°♘43'09	
morning max el	7351 Jun 29 06:59	14°♘27'22	27°52'17	morning max el	7352 Jun 10 14:51	26°♘42'19	27°47'49

	7352 Jun 13 16:49	0°♄		min. Earth dist.	7353 Apr 30 07:23	8°♄10'55	0.65064 AU
	7352 Jul 04 10:56	0°♄		morning rise	7353 May 03 23:44	4°♄21'54	
morning set	7352 Jul 15 02:24	19°♄50'21		direct	7353 May 10 14:49	1°♄34'32	
asc. node	7352 Jul 20 10:52	0°♄55'20		desc. node	7353 May 15 13:04	2°♄51'31	
	7352 Jul 20 00:27	0°♄		morning max el	7353 May 24 00:57	9°♄28'55	27°08'59
max. Earth dist.	7352 Jul 20 07:11	0°♄35'45	1.32569 AU		7353 Jun 09 02:31	0°♄	
					7353 Jun 26 20:56	0°♄	
superior conj	7352 Jul 22 20:29	6°♄04'39	0°24'24	morning set	7353 Jun 28 14:34	3°♄19'12	
minimum elong	7352 Jul 22 19:21	5°♄58'30	0°24'05	max. Earth dist.	7353 Jul 03 02:22	12°♄14'37	1.33695 AU
evening rise	7352 Jul 29 19:11	21°♄07'37					
	7352 Aug 03 01:55	0°♄		superior conj	7353 Jul 06 23:17	20°♄16'21	-0°03'40
evening max el	7352 Aug 22 04:09	28°♄57'23	23°27'45	minimum elong	7353 Jul 06 23:29	20°♄17'25	0°03'43
	7352 Aug 23 06:58	0°♄		behind sun begin	7353 Jul 06 18:01	19°♄48'39	
desc. node	7352 Aug 24 15:11	1°♄08'45		behind sun end	7353 Jul 07 04:57	20°♄46'12	
retrograde	7352 Sep 04 17:07	5°♄44'21		asc. node	7353 Jul 07 07:54	21°♄01'47	
evening set	7352 Sep 08 21:33	5°♄06'00			7353 Jul 11 13:06	0°♄	
min. Earth dist.	7352 Sep 15 13:49	1°♄58'13	0.55672 AU	evening rise	7353 Jul 14 05:57	5°♄43'57	
inferior conj	7352 Sep 17 12:12	0°♄49'38	-5°24'36		7353 Jul 27 08:18	0°♄	
minimum elong	7352 Sep 17 08:43	0°♄54'49	5°24'20	evening max el	7353 Aug 03 19:12	9°♄16'24	21°50'38
	7352 Sep 18 22:03	30°♄		desc. node	7353 Aug 11 12:15	14°♄34'43	
morning rise	7352 Sep 25 22:08	26°♄56'57		retrograde	7353 Aug 16 09:07	15°♄30'51	
direct	7352 Sep 28 19:32	26°♄36'33		evening set	7353 Aug 19 03:20	15°♄13'47	
	7352 Oct 07 14:00	0°♄		inferior conj	7353 Aug 28 08:15	11°♄13'07	-4°32'25
morning max el	7352 Oct 09 09:31	1°♄33'16	20°19'41	minimum elong	7353 Aug 27 23:16	11°♄25'42	4°30'21
asc. node	7352 Oct 16 10:20	10°♄11'44		min. Earth dist.	7353 Aug 27 22:55	11°♄26'11	0.54806 AU
	7352 Oct 27 07:09	0°♄		morning rise	7353 Sep 05 20:30	7°♄23'25	
morning set	7352 Oct 27 22:41	1°♄19'19		direct	7353 Sep 09 06:40	6°♄57'39	
				morning max el	7353 Sep 21 10:04	12°♄40'36	21°50'13
superior conj	7352 Nov 04 12:48	16°♄54'01	1°37'00	asc. node	7353 Oct 03 07:19	28°♄35'33	
minimum elong	7352 Nov 04 14:28	17°♄02'25	1°36'58		7353 Oct 04 02:41	0°♄	
max. Earth dist.	7352 Nov 09 21:53	27°♄30'01	1.36491 AU	morning set	7353 Oct 12 08:22	16°♄06'14	
	7352 Nov 11 05:27	0°♄			7353 Oct 18 21:58	0°♄	
evening rise	7352 Nov 13 18:19	4°♄42'33					
desc. node	7352 Nov 20 14:12	16°♄40'25		superior conj	7353 Oct 19 12:44	1°♄17'38	1°41'52
	7352 Nov 28 22:56	0°♄		minimum elong	7353 Oct 19 13:00	1°♄19'05	1°41'55
evening max el	7352 Dec 19 09:21	26°♄07'59	25°56'00	max. Earth dist.	7353 Oct 23 10:38	9°♄22'22	1.34699 AU
	7352 Dec 23 21:06	0°♄		evening rise	7353 Oct 27 19:17	17°♄58'37	
retrograde	7352 Dec 31 22:02	3°♄16'35			7353 Nov 03 08:33	0°♄	
evening set	7353 Jan 07 00:34	0°♄46'22		desc. node	7353 Nov 07 11:16	6°♄59'41	
	7353 Jan 07 21:24	30°♄			7353 Nov 23 04:54	0°♄	
min. Earth dist.	7353 Jan 11 07:08	26°♄11'56	0.66993 AU	evening max el	7353 Dec 01 22:31	9°♄48'47	26°50'57
asc. node	7353 Jan 12 09:38	24°♄49'00		retrograde	7353 Dec 15 02:25	17°♄06'57	
inferior conj	7353 Jan 12 18:17	24°♄21'45	0°07'16	evening set	7353 Dec 21 16:40	14°♄30'31	
minimum elong	7353 Jan 12 18:06	24°♄22'22	0°07'17	min. Earth dist.	7353 Dec 25 17:08	10°♄30'39	0.65814 AU
transit middle	7353 Jan 12 18:06	24°♄22'22	0°07'17	inferior conj	7353 Dec 27 15:48	8°♄15'00	-0°53'02
transit begin	7353 Jan 12 15:34	24°♄30'19		minimum elong	7353 Dec 27 17:19	8°♄10'35	0°52'18
transit end	7353 Jan 12 20:38	24°♄14'25		asc. node	7353 Dec 30 06:39	5°♄21'08	
morning rise	7353 Jan 18 12:11	18°♄31'45		morning rise	7354 Jan 02 18:59	2°♄36'08	
direct	7353 Jan 21 17:17	17°♄32'45		direct	7354 Jan 05 14:32	1°♄52'34	
morning max el	7353 Jan 28 12:25	21°♄16'07	18°53'05	morning max el	7354 Jan 12 02:11	5°♄21'05	18°14'30
	7353 Feb 04 13:17	0°♄			7354 Jan 29 01:17	0°♄	
desc. node	7353 Feb 16 13:33	18°♄11'32		morning set	7354 Jan 31 03:22	3°♄22'25	
morning set	7353 Feb 19 16:01	23°♄01'54		desc. node	7354 Feb 03 10:33	8°♄41'35	
	7353 Feb 24 03:06	0°♄					
max. Earth dist.	7353 Mar 06 10:50	16°♄08'36	1.45261 AU	superior conj	7354 Feb 15 08:56	27°♄39'05	-1°18'23
				minimum elong	7354 Feb 15 00:05	27°♄04'19	1°17'19
superior conj	7353 Mar 08 04:23	18°♄51'47	-1°53'28		7354 Feb 16 20:51	0°♄	
minimum elong	7353 Mar 07 19:54	18°♄18'28	1°52'49	max. Earth dist.	7354 Feb 17 06:08	0°♄36'22	1.45441 AU
	7353 Mar 15 05:17	0°♄		evening rise	7354 Mar 03 11:51	22°♄50'17	
evening rise	7353 Mar 23 07:14	12°♄59'36			7354 Mar 08 02:02	0°♄	
	7353 Apr 02 20:40	0°♄		greatest brilliancy	7354 Mar 15 01:32	10°♄47'01	-0.7m
asc. node	7353 Apr 10 08:42	10°♄47'03		evening max el	7354 Mar 27 04:43	27°♄09'45	19°17'22
evening max el	7353 Apr 12 20:06	13°♄34'37	18°36'01	asc. node	7354 Mar 28 05:46	28°♄10'07	
retrograde	7353 Apr 19 09:21	17°♄09'57			7354 Mar 30 15:02	0°♄	
evening set	7353 Apr 22 13:54	16°♄12'28		retrograde	7354 Apr 03 05:46	1°♄09'15	
inferior conj	7353 Apr 28 06:43	10°♄37'39	3°25'09	evening set	7354 Apr 06 17:58	29°♄57'25	
minimum elong	7353 Apr 28 07:11	10°♄36'13	3°25'05		7354 Apr 06 16:26	30°♄	



inferior conj	7354 Apr 12 05:10	24°♈06'55	3°23'26	evening set	7355 Mar 22 00:54	13°♈53'14	
minimum elong	7354 Apr 12 04:22	24°♈09'30	3°23'21	inferior conj	7355 Mar 27 09:11	7°♈48'55	3°09'12
min. Earth dist.	7354 Apr 13 14:31	22°♈18'51	0.66538 AU	minimum elong	7355 Mar 27 07:28	7°♈54'43	3°08'54
morning rise	7354 Apr 17 14:25	17°♈49'59		min. Earth dist.	7355 Mar 28 04:12	6°♈44'19	0.67570 AU
direct	7354 Apr 23 20:25	15°♈04'25		morning rise	7355 Apr 01 13:50	1°♈33'11	
desc. node	7354 May 02 10:03	18°♈54'43			7355 Apr 03 16:11	30°♈	
morning max el	7354 May 06 10:54	22°♈35'48	26°03'27	direct	7355 Apr 07 07:22	28°♈59'41	
	7354 May 12 23:08	0°♈			7355 Apr 11 06:32	0°♈	
	7354 Jun 02 09:31	0°♈		morning max el	7355 Apr 18 19:57	5°♈53'29	24°40'51
morning set	7354 Jun 11 13:38	16°♈07'24		desc. node	7355 Apr 19 07:02	6°♈21'49	
max. Earth dist.	7354 Jun 15 10:31	23°♈26'50	1.35299 AU		7355 May 07 11:28	0°♈	
	7354 Jun 18 18:31	0°♈		morning set	7355 May 24 18:46	28°♈01'29	
					7355 May 25 21:32	0°♈	
superior conj	7354 Jun 20 18:35	4°♈02'12	-0°34'08	max. Earth dist.	7355 May 28 09:38	4°♈31'04	1.37301 AU
minimum elong	7354 Jun 20 20:33	4°♈12'11	0°33'50				
asc. node	7354 Jun 24 04:54	11°♈04'44		superior conj	7355 Jun 04 03:15	17°♈13'29	-1°05'24
evening rise	7354 Jun 28 13:46	20°♈07'42		minimum elong	7355 Jun 04 07:10	17°♈32'29	1°04'49
	7354 Jul 03 12:09	0°♈			7355 Jun 10 13:56	0°♈	
evening max el	7354 Jul 16 21:06	20°♈05'02	20°26'00	asc. node	7355 Jun 11 01:56	1°♈00'07	
retrograde	7354 Jul 27 21:18	25°♈30'36		evening rise	7355 Jun 12 16:13	4°♈11'40	
desc. node	7354 Jul 29 09:17	25°♈24'57			7355 Jun 27 23:32	0°♈	
evening set	7354 Jul 29 21:10	25°♈20'41		evening max el	7355 Jun 29 11:57	1°♈36'36	19°20'31
inferior conj	7354 Aug 08 01:40	21°♈23'25	-2°52'42	retrograde	7355 Jul 08 19:14	6°♈11'38	
minimum elong	7354 Aug 07 17:53	21°♈34'43	2°50'03	evening set	7355 Jul 10 16:40	6°♈01'03	
min. Earth dist.	7354 Aug 09 09:12	20°♈37'40	0.54872 AU	desc. node	7355 Jul 16 06:18	3°♈46'20	
morning rise	7354 Aug 16 13:51	17°♈16'59		inferior conj	7355 Jul 19 06:50	1°♈52'47	-0°55'09
direct	7354 Aug 20 16:24	16°♈40'42		minimum elong	7355 Jul 19 04:23	1°♈56'48	0°54'16
morning max el	7354 Sep 03 01:18	23°♈09'36	23°33'55	min. Earth dist.	7355 Jul 21 22:16	0°♈09'15	0.55866 AU
	7354 Sep 09 03:54	0°♈			7355 Jul 22 04:07	30°♈	
asc. node	7354 Sep 20 04:18	17°♈34'29		morning rise	7355 Jul 27 13:22	27°♈13'11	
	7354 Sep 26 09:05	0°♈		direct	7355 Aug 01 11:42	26°♈17'56	
morning set	7354 Sep 26 19:49	0°♈56'47			7355 Aug 11 11:42	0°♈	
				morning max el	7355 Aug 15 14:08	3°♈25'32	25°17'06
superior conj	7354 Oct 03 18:49	15°♈57'52	1°40'01		7355 Sep 03 09:43	0°♈	
minimum elong	7354 Oct 03 17:54	15°♈52'54	1°40'01	asc. node	7355 Sep 07 01:18	6°♈59'33	
max. Earth dist.	7354 Oct 06 08:04	21°♈25'45	1.33302 AU	morning set	7355 Sep 11 07:26	15°♈46'15	
	7354 Oct 10 11:13	0°♈			7355 Sep 17 20:03	0°♈	
evening rise	7354 Oct 11 08:51	1°♈48'50		superior conj	7355 Sep 18 04:42	0°♈47'33	1°32'16
desc. node	7354 Oct 25 08:19	26°♈58'48		minimum elong	7355 Sep 18 02:56	0°♈37'48	1°32'07
	7354 Oct 27 06:18	0°♈		max. Earth dist.	7355 Sep 19 13:05	3°♈45'04	1.32338 AU
evening max el	7354 Nov 14 11:06	23°♈13'32	27°23'01	evening rise	7355 Sep 25 07:39	16°♈04'05	
	7354 Nov 24 15:52	0°♈			7355 Oct 02 10:32	0°♈	
retrograde	7354 Nov 28 00:24	0°♈32'15		desc. node	7355 Oct 12 05:21	16°♈29'27	
	7354 Dec 01 05:17	30°♈			7355 Oct 22 03:09	0°♈	
evening set	7354 Dec 04 23:42	27°♈56'23		evening max el	7355 Oct 27 20:57	6°♈09'11	27°25'56
min. Earth dist.	7354 Dec 08 18:55	24°♈29'57	0.64298 AU	retrograde	7355 Nov 10 15:31	13°♈24'04	
inferior conj	7354 Dec 11 05:14	21°♈55'50	-1°58'31	evening set	7355 Nov 17 18:43	10°♈57'55	
minimum elong	7354 Dec 11 08:50	21°♈46'16	1°56'59	min. Earth dist.	7355 Nov 21 10:40	8°♈00'27	0.62481 AU
asc. node	7354 Dec 17 03:41	16°♈49'51		inferior conj	7355 Nov 24 07:45	5°♈17'35	-3°06'27
morning rise	7354 Dec 17 19:29	16°♈31'14		minimum elong	7355 Nov 24 13:28	5°♈04'03	3°04'20
direct	7354 Dec 20 07:41	15°♈59'14		morning rise	7355 Dec 01 10:12	0°♈10'42	
morning max el	7354 Dec 26 18:59	19°♈22'38	17°52'56		7355 Dec 02 00:28	30°♈	
	7355 Jan 03 17:05	0°♈		direct	7355 Dec 03 17:35	29°♈46'39	
morning set	7355 Jan 12 19:27	15°♈07'25		asc. node	7355 Dec 04 00:41	29°♈47'04	
desc. node	7355 Jan 21 07:32	29°♈20'30			7355 Dec 05 10:16	0°♈	
	7355 Jan 21 17:08	0°♈		morning max el	7355 Dec 10 11:52	3°♈13'50	17°49'04
				morning set	7355 Dec 26 10:27	27°♈58'09	
superior conj	7355 Jan 26 02:00	7°♈06'41	-0°33'43		7355 Dec 27 13:54	0°♈	
minimum elong	7355 Jan 25 22:07	6°♈50'59	0°33'05				
max. Earth dist.	7355 Jan 31 01:38	15°♈04'19	1.44881 AU	superior conj	7356 Jan 06 19:32	17°♈46'22	0°10'00
	7355 Feb 09 15:21	0°♈		minimum elong	7356 Jan 06 20:30	17°♈50'27	0°09'56
evening rise	7355 Feb 11 01:15	2°♈10'21		behind sun begin	7356 Jan 06 13:25	17°♈20'33	
greatest brilliancy	7355 Feb 25 16:12	24°♈12'08	-0.6m	behind sun end	7356 Jan 07 03:35	18°♈20'18	
	7355 Mar 01 17:18	0°♈		desc. node	7356 Jan 08 04:32	20°♈04'53	
evening max el	7355 Mar 10 08:18	10°♈46'38	20°14'07	max. Earth dist.	7356 Jan 13 18:17	29°♈14'19	1.43648 AU
asc. node	7355 Mar 15 02:49	14°♈31'58			7356 Jan 14 05:36	0°♈	
retrograde	7355 Mar 18 04:04	15°♈19'57					

evening rise	7356 Jan 21 13:45	11° $\approx$ 35'52		evening max el	7357 Feb 02 23:30	8° $\times$ 04'03	22°40'58
	7356 Feb 02 18:27	0° $\times$		retrograde	7357 Feb 12 22:30	13° $\times$ 58'46	
evening max el	7356 Feb 21 06:18	24° $\times$ 24'25	21°23'23	asc. node	7357 Feb 15 20:56	13° $\times$ 14'57	
asc. node	7356 Feb 29 23:52	29° $\times$ 37'53		evening set	7357 Feb 17 16:20	12° $\times$ 01'53	
retrograde	7356 Mar 01 02:13	29° $\times$ 37'56		inferior conj	7357 Feb 23 00:59	5° $\times$ 38'14	2°10'48
evening set	7356 Mar 05 08:54	27° $\times$ 56'05		minimum elong	7357 Feb 22 22:43	5° $\times$ 46'06	2°10'08
inferior conj	7356 Mar 10 16:28	21° $\times$ 40'25	2°44'33	min. Earth dist.	7357 Feb 22 19:02	5° $\times$ 58'53	0.68328 AU
minimum elong	7356 Mar 10 14:15	21° $\times$ 48'05	2°44'01		7357 Feb 27 15:10	30° $\approx$	
min. Earth dist.	7356 Mar 10 22:27	21° $\times$ 19'36	0.68160 AU	morning rise	7357 Feb 28 04:58	29° $\approx$ 29'24	
morning rise	7356 Mar 15 19:26	15° $\times$ 27'28		direct	7357 Mar 04 18:19	27° $\approx$ 36'31	
direct	7356 Mar 20 22:59	13° $\times$ 12'39			7357 Mar 10 12:59	0° $\times$	
morning max el	7356 Mar 31 05:29	19° $\times$ 18'29	23°11'23	morning max el	7357 Mar 13 18:29	2° $\times$ 51'40	21°44'18
desc. node	7356 Apr 05 04:02	24° $\times$ 49'40		desc. node	7357 Mar 23 01:01	14° $\times$ 01'14	
	7356 Apr 09 06:06	0° $\gamma$			7357 Apr 03 06:00	0° $\gamma$	
	7356 Apr 29 15:26	0° $\delta$		morning set	7357 Apr 15 02:13	18° $\gamma$ 16'00	
morning set	7356 May 05 00:22	8° $\delta$ 47'29		max. Earth dist.	7357 Apr 21 05:03	28° $\gamma$ 13'19	1.41684 AU
max. Earth dist.	7356 May 09 05:37	15° $\delta$ 58'26	1.39517 AU		7357 Apr 22 06:40	0° $\delta$	
superior conj	7356 May 16 21:22	29° $\delta$ 40'55	-1°34'47	superior conj	7357 Apr 28 20:19	11° $\delta$ 14'01	-1°58'20
minimum elong	7356 May 17 02:46	0° $\Pi$ 05'49	1°34'11	minimum elong	7357 Apr 29 01:27	11° $\delta$ 36'30	1°58'02
	7356 May 17 01:30	0° $\Pi$			7357 May 09 06:04	0° $\Pi$	
evening rise	7356 May 26 10:23	17° $\Pi$ 48'18		evening rise	7357 May 09 16:34	0° $\Pi$ 48'18	
asc. node	7356 May 27 22:58	20° $\Pi$ 43'38		asc. node	7357 May 14 20:02	10° $\Pi$ 10'22	
	7356 Jun 01 22:48	0° $\Theta$		evening max el	7357 May 25 22:49	26° $\Pi$ 36'14	18°11'18
evening max el	7356 Jun 11 13:43	13° $\Theta$ 49'42	18°35'46		7357 May 31 16:45	0° $\Theta$	
retrograde	7356 Jun 19 11:05	17° $\Theta$ 44'34		retrograde	7357 Jun 01 21:24	0° $\Theta$ 06'17	
evening set	7356 Jun 21 13:57	17° $\Theta$ 28'33			7357 Jun 03 02:19	30° $\approx$ $\Pi$	
inferior conj	7356 Jun 29 08:24	13° $\Theta$ 01'51	0°49'06	evening set	7357 Jun 04 07:44	29° $\Pi$ 41'08	
minimum elong	7356 Jun 29 10:09	12° $\Theta$ 58'28	0°48'23	inferior conj	7357 Jun 11 07:27	24° $\Pi$ 54'08	2°05'38
desc. node	7356 Jul 02 03:22	10° $\Theta$ 53'36		minimum elong	7357 Jun 11 10:37	24° $\Pi$ 47'02	2°04'38
min. Earth dist.	7356 Jul 02 16:03	10° $\Theta$ 30'13	0.57600 AU	min. Earth dist.	7357 Jun 14 16:16	21° $\Pi$ 54'43	0.59756 AU
morning rise	7356 Jul 07 02:53	7° $\Theta$ 45'20		morning rise	7357 Jun 18 10:36	19° $\Pi$ 08'46	
direct	7356 Jul 12 21:31	6° $\Theta$ 21'25		desc. node	7357 Jun 19 00:24	18° $\Pi$ 48'59	
morning max el	7356 Jul 27 06:42	13° $\Theta$ 57'21	26°42'52	direct	7357 Jun 24 20:59	17° $\Pi$ 12'01	
	7356 Aug 09 01:17	0° $\Omega$		morning max el	7357 Jul 09 05:40	25° $\Pi$ 05'24	27°37'34
asc. node	7356 Aug 23 22:18	26° $\Omega$ 42'56			7357 Jul 13 18:00	0° $\Theta$	
morning set	7356 Aug 25 17:30	0° $\Pi$ 28'49			7357 Aug 02 09:56	0° $\Omega$	
	7356 Aug 25 12:03	0° $\Pi$		morning set	7357 Aug 10 00:21	14° $\Omega$ 59'20	
superior conj	7356 Sep 01 16:20	15° $\Pi$ 39'27	1°19'12	asc. node	7357 Aug 10 19:20	16° $\Omega$ 38'53	
minimum elong	7356 Sep 01 14:07	15° $\Pi$ 27'11	1°18'53	max. Earth dist.	7357 Aug 16 08:54	28° $\Omega$ 42'38	1.31755 AU
max. Earth dist.	7356 Sep 01 22:31	16° $\Pi$ 13'44	1.31821 AU		7357 Aug 16 22:55	0° $\Pi$	
	7356 Sep 08 06:08	0° $\Omega$		superior conj	7357 Aug 17 03:57	0° $\Pi$ 27'53	1°01'19
evening rise	7356 Sep 08 12:52	0° $\Omega$ 35'35		minimum elong	7357 Aug 17 01:45	0° $\Pi$ 15'45	1°00'53
	7356 Sep 24 12:18	0° $\Pi$		evening rise	7357 Aug 23 22:13	15° $\Pi$ 16'41	
desc. node	7356 Sep 28 02:24	5° $\Pi$ 19'19			7357 Aug 31 05:17	0° $\Omega$	
evening max el	7356 Oct 09 01:21	18° $\Pi$ 22'12	26°55'41	desc. node	7357 Sep 14 23:28	23° $\Omega$ 12'06	
retrograde	7356 Oct 22 22:56	25° $\Pi$ 32'15		evening max el	7357 Sep 20 22:22	29° $\Omega$ 45'44	25°52'38
evening set	7356 Oct 29 21:37	23° $\Pi$ 27'09			7357 Sep 21 04:26	0° $\Pi$	
min. Earth dist.	7356 Nov 02 15:40	20° $\Pi$ 48'37	0.60448 AU	retrograde	7357 Oct 04 21:03	6° $\Pi$ 50'16	
inferior conj	7356 Nov 05 19:56	18° $\Pi$ 10'39	-4°11'41	evening set	7357 Oct 11 03:32	5° $\Pi$ 17'09	
minimum elong	7356 Nov 06 02:56	17° $\Pi$ 56'08	4°09'41	min. Earth dist.	7357 Oct 15 11:01	2° $\Pi$ 41'32	0.58374 AU
morning rise	7356 Nov 13 10:31	13° $\Pi$ 24'39		inferior conj	7357 Oct 18 14:22	0° $\Pi$ 25'49	-5°04'37
direct	7356 Nov 15 16:14	13° $\Pi$ 05'18		minimum elong	7357 Oct 18 20:11	0° $\Pi$ 15'17	5°03'37
asc. node	7356 Nov 19 21:44	14° $\Pi$ 17'52			7357 Oct 19 04:41	30° $\approx$ $\Omega$	
morning max el	7356 Nov 23 01:25	16° $\Pi$ 45'08	18°03'58	morning rise	7357 Oct 26 15:09	26° $\Omega$ 02'24	
	7356 Dec 02 09:20	0° $\times$		direct	7357 Oct 28 23:23	25° $\Omega$ 44'42	
morning set	7356 Dec 08 17:58	11° $\times$ 34'50		morning max el	7357 Nov 06 08:04	29° $\Omega$ 46'36	18°39'16
				asc. node	7357 Nov 06 18:45	0° $\Pi$ 12'57	
superior conj	7356 Dec 18 14:23	29° $\times$ 38'31	0°46'20		7357 Nov 06 13:34	0° $\Pi$	
minimum elong	7356 Dec 18 17:40	29° $\times$ 53'05	0°45'57	morning set	7357 Nov 22 13:00	25° $\Pi$ 43'15	
	7356 Dec 18 19:13	0° $\Theta$			7357 Nov 24 17:46	0° $\times$	
desc. node	7356 Dec 25 01:32	10° $\Theta$ 50'40		superior conj	7357 Dec 01 06:14	12° $\times$ 30'36	1°13'12
max. Earth dist.	7356 Dec 26 05:45	12° $\Theta$ 49'06	1.41884 AU	minimum elong	7357 Dec 01 09:40	12° $\times$ 46'43	1°12'53
evening rise	7356 Dec 31 15:39	21° $\Theta$ 40'38		max. Earth dist.	7357 Dec 08 12:38	25° $\times$ 41'51	1.39808 AU
	7357 Jan 05 22:36	0° $\approx$			7357 Dec 11 00:19	0° $\Theta$	
	7357 Jan 26 23:37	0° $\times$					

desc. node	7357 Dec 11 22:33	1°♄34'30		desc. node	7358 Nov 28 19:35	22°♄12'50	
evening rise	7357 Dec 12 14:52	2°♄43'18			7358 Dec 03 13:21	0°♄	
	7357 Dec 30 05:01	0°♄			7358 Dec 24 23:10	0°♄	
evening max el	7358 Jan 16 13:43	21°♄47'20	24°01'08	evening max el	7358 Dec 30 02:51	5°♄34'08	25°17'04
retrograde	7358 Jan 27 15:27	28°♄17'58		retrograde	7359 Jan 11 04:00	12°♄31'20	
evening set	7358 Feb 01 21:38	26°♄06'39		evening set	7359 Jan 16 23:13	10°♄07'13	
asc. node	7358 Feb 02 18:01	25°♄19'59		asc. node	7359 Jan 20 15:03	6°♄12'05	
min. Earth dist.	7358 Feb 06 15:34	20°♄37'41	0.68106 AU	min. Earth dist.	7359 Jan 21 09:44	5°♄12'48	0.67508 AU
inferior conj	7358 Feb 07 08:52	19°♄39'02	1°28'47	inferior conj	7359 Jan 22 14:17	3°♄40'16	0°39'08
minimum elong	7358 Feb 07 07:00	19°♄45'20	1°28'10	minimum elong	7359 Jan 22 13:20	3°♄43'22	0°38'50
morning rise	7358 Feb 12 16:24	13°♄35'57			7359 Jan 25 14:39	30°♄	
direct	7358 Feb 16 16:15	12°♄05'25		morning rise	7359 Jan 28 03:45	27°♄44'52	
morning max el	7358 Feb 24 14:10	16°♄35'41	20°26'38	direct	7359 Jan 31 15:19	26°♄35'05	
	7358 Mar 07 07:09	0°♄			7359 Feb 07 04:47	0°♄	
desc. node	7358 Mar 09 21:59	3°♄44'07		morning max el	7359 Feb 07 17:54	0°♄31'41	19°22'46
morning set	7358 Mar 25 04:30	26°♄41'47		greatest brilliancy	7359 Feb 20 18:44	17°♄47'21	-0.7m
	7358 Mar 27 07:29	0°♄		desc. node	7359 Feb 24 18:58	23°♄50'15	
max. Earth dist.	7358 Apr 03 11:45	11°♄22'28	1.43530 AU		7359 Feb 28 19:39	0°♄	
				morning set	7359 Mar 04 03:07	5°♄06'02	
superior conj	7358 Apr 09 19:33	21°♄42'36	-2°10'36	max. Earth dist.	7359 Mar 17 01:43	25°♄17'01	1.44829 AU
minimum elong	7358 Apr 09 21:02	21°♄48'48	2°10'37		7359 Mar 20 01:07	0°♄	
	7358 Apr 14 17:50	0°♄					
evening rise	7358 Apr 22 06:12	13°♄00'33		superior conj	7359 Mar 20 18:08	1°♄07'45	-2°05'35
asc. node	7358 May 01 17:06	29°♄13'29		minimum elong	7359 Mar 20 12:54	0°♄46'54	2°05'21
	7358 May 02 04:42	0°♄		evening rise	7359 Apr 03 22:54	24°♄17'20	
evening max el	7358 May 09 11:32	9°♄45'31	18°06'16		7359 Apr 07 09:09	0°♄	
retrograde	7358 May 15 22:38	13°♄06'26		asc. node	7359 Apr 18 14:10	17°♄45'35	
evening set	7358 May 18 16:16	12°♄29'40		evening max el	7359 Apr 23 00:35	23°♄09'17	18°19'55
inferior conj	7358 May 25 00:49	7°♄22'50	2°54'06	retrograde	7359 Apr 29 10:23	26°♄35'33	
minimum elong	7358 May 25 03:27	7°♄16'05	2°53'30	evening set	7359 May 02 10:58	25°♄45'45	
min. Earth dist.	7358 May 28 00:27	4°♄20'23	0.61992 AU	inferior conj	7359 May 08 08:26	20°♄20'27	3°19'14
morning rise	7358 May 31 12:46	1°♄19'23		minimum elong	7359 May 08 09:43	20°♄16'44	3°19'02
	7358 Jun 02 17:41	30°♄		min. Earth dist.	7359 May 10 17:51	17°♄36'25	0.64041 AU
desc. node	7358 Jun 05 21:26	29°♄00'31		morning rise	7359 May 14 07:28	14°♄07'29	
direct	7358 Jun 07 07:03	28°♄54'30		direct	7359 May 21 01:34	11°♄25'01	
	7358 Jun 12 02:50	0°♄		desc. node	7359 May 23 18:27	11°♄48'07	
morning max el	7358 Jun 21 10:36	6°♄55'38	27°54'50	morning max el	7359 Jun 03 19:37	19°♄24'34	27°35'07
	7358 Jul 08 23:18	0°♄			7359 Jun 12 19:34	0°♄	
morning set	7358 Jul 25 01:58	29°♄11'29			7359 Jul 01 23:07	0°♄	
	7358 Jul 25 11:27	0°♄		morning set	7359 Jul 08 19:54	12°♄58'25	
asc. node	7358 Jul 28 16:21	6°♄42'02		max. Earth dist.	7359 Jul 13 17:20	22°♄56'17	1.32996 AU
max. Earth dist.	7358 Jul 30 16:26	11°♄00'13	1.32143 AU	asc. node	7359 Jul 15 13:22	26°♄48'17	
superior conj	7358 Aug 01 13:42	15°♄06'35	0°39'02	superior conj	7359 Jul 16 19:39	29°♄29'49	0°12'53
minimum elong	7358 Aug 01 12:02	14°♄57'27	0°38'38	minimum elong	7359 Jul 16 19:01	29°♄26'26	0°12'40
evening rise	7358 Aug 08 09:38	0°♄00'38		behind sun begin	7359 Jul 16 15:42	29°♄08'39	
	7358 Aug 08 09:30	0°♄		behind sun end	7359 Jul 16 22:20	29°♄44'13	
	7358 Aug 24 20:53	0°♄			7359 Jul 17 01:17	0°♄	
desc. node	7358 Sep 01 20:33	9°♄45'11		evening rise	7359 Jul 23 21:12	14°♄41'37	
evening max el	7358 Sep 02 12:19	10°♄23'48	24°24'20		7359 Jul 31 12:48	0°♄	
retrograde	7358 Sep 16 07:19	17°♄19'26		evening max el	7359 Aug 15 00:17	20°♄38'56	22°45'31
evening set	7358 Sep 21 08:46	16°♄22'41		desc. node	7359 Aug 19 17:37	24°♄29'02	
min. Earth dist.	7358 Sep 26 23:18	13°♄31'36	0.56520 AU	retrograde	7359 Aug 28 05:00	27°♄14'11	
inferior conj	7358 Sep 29 12:38	11°♄55'08	-5°29'53	evening set	7359 Aug 31 18:06	26°♄46'39	
minimum elong	7358 Sep 29 13:23	11°♄53'58	5°29'52	min. Earth dist.	7359 Sep 08 08:08	23°♄23'50	0.55205 AU
morning rise	7358 Oct 07 20:10	7°♄53'03		inferior conj	7359 Sep 09 16:06	22°♄38'12	-5°09'15
direct	7358 Oct 10 11:47	7°♄34'11		minimum elong	7359 Sep 09 09:40	22°♄47'24	5°08'20
morning max el	7358 Oct 20 04:16	12°♄08'01	19°36'37	morning rise	7359 Sep 18 03:15	18°♄49'17	
asc. node	7358 Oct 24 15:46	17°♄17'23		direct	7359 Sep 21 06:00	18°♄26'54	
	7358 Nov 01 10:23	0°♄		morning max el	7359 Oct 02 11:51	23°♄42'05	20°56'01
morning set	7358 Nov 06 15:52	10°♄13'11			7359 Oct 07 23:34	0°♄	
				asc. node	7359 Oct 11 12:47	5°♄15'56	
superior conj	7358 Nov 14 13:58	26°♄08'26	1°30'45	morning set	7359 Oct 21 23:41	24°♄55'50	
minimum elong	7358 Nov 14 16:25	26°♄20'29	1°30'37		7359 Oct 24 10:08	0°♄	
	7358 Nov 16 13:22	0°♄					
max. Earth dist.	7358 Nov 20 18:19	7°♄58'15	1.37665 AU	superior conj	7359 Oct 29 09:01	10°♄18'29	1°39'56
evening rise	7358 Nov 24 12:01	14°♄44'51		minimum elong	7359 Oct 29 10:05	10°♄23'57	1°39'58

max. Earth dist.	7359 Nov 03 03:21	19° $\mathbb{M}$ 53'37	1.35687 AU	superior conj	7360 Oct 12 11:56	24° $\mathbb{A}$ 50'44	1°41'51
evening rise	7359 Nov 07 03:57	27° $\mathbb{M}$ 36'17		minimum elong	7360 Oct 12 11:40	24° $\mathbb{A}$ 49'20	1°41'54
	7359 Nov 08 10:58	0° $\mathbb{A}$			7360 Oct 14 22:38	0° $\mathbb{M}$	
desc. node	7359 Nov 15 16:37	12° $\mathbb{A}$ 40'33		max. Earth dist.	7360 Oct 15 19:42	1° $\mathbb{M}$ 49'23	1.34050 AU
	7359 Nov 26 21:21	0° $\mathbb{B}$		evening rise	7360 Oct 20 10:43	11° $\mathbb{M}$ 08'12	
evening max el	7359 Dec 12 15:53	19° $\mathbb{B}$ 18'52	26°21'40		7360 Oct 30 20:04	0° $\mathbb{A}$	
retrograde	7359 Dec 25 11:26	26° $\mathbb{B}$ 32'13		desc. node	7360 Nov 01 13:41	2° $\mathbb{A}$ 52'14	
evening set	7359 Dec 31 19:19	23° $\mathbb{B}$ 58'32			7360 Nov 21 08:28	0° $\mathbb{B}$	
min. Earth dist.	7360 Jan 04 23:12	19° $\mathbb{B}$ 39'06	0.66540 AU	evening max el	7360 Nov 24 04:45	2° $\mathbb{B}$ 53'28	27°07'37
inferior conj	7360 Jan 06 15:16	17° $\mathbb{B}$ 37'21	-0°17'32	retrograde	7360 Dec 07 13:13	10° $\mathbb{B}$ 13'12	
minimum elong	7360 Jan 06 15:44	17° $\mathbb{B}$ 35'54	0°17'15	evening set	7360 Dec 14 07:53	7° $\mathbb{B}$ 35'39	
asc. node	7360 Jan 07 12:04	16° $\mathbb{B}$ 34'33		min. Earth dist.	7360 Dec 18 05:50	3° $\mathbb{B}$ 50'34	0.65214 AU
morning rise	7360 Jan 12 12:53	11° $\mathbb{B}$ 51'56		inferior conj	7360 Dec 20 09:37	1° $\mathbb{B}$ 25'44	-1°20'18
direct	7360 Jan 15 13:45	10° $\mathbb{B}$ 59'53		minimum elong	7360 Dec 20 12:00	1° $\mathbb{B}$ 19'05	1°19'13
morning max el	7360 Jan 22 04:41	14° $\mathbb{B}$ 35'14	18°34'41		7360 Dec 21 16:44	30° $\mathbb{R}$ $\mathbb{A}$	
	7360 Feb 02 14:44	0° $\mathbb{A}$		asc. node	7360 Dec 24 09:06	27° $\mathbb{A}$ 24'50	
morning set	7360 Feb 11 21:32	14° $\mathbb{A}$ 34'54		morning rise	7360 Dec 26 17:22	25° $\mathbb{A}$ 52'52	
desc. node	7360 Feb 11 15:56	14° $\mathbb{A}$ 12'45		direct	7360 Dec 29 09:27	25° $\mathbb{A}$ 14'48	
	7360 Feb 21 16:29	0° $\mathbb{H}$		morning max el	7361 Jan 04 20:09	28° $\mathbb{A}$ 39'56	18°03'13
					7361 Jan 06 02:23	0° $\mathbb{B}$	
superior conj	7360 Feb 28 00:06	9° $\mathbb{H}$ 53'51	-1°40'26	morning set	7361 Jan 22 21:29	25° $\mathbb{B}$ 32'27	
minimum elong	7360 Feb 27 14:33	9° $\mathbb{H}$ 16'27	1°39'32		7361 Jan 25 14:37	0° $\mathbb{A}$	
max. Earth dist.	7360 Feb 27 20:04	9° $\mathbb{H}$ 38'06	1.45433 AU	desc. node	7361 Jan 28 12:55	4° $\mathbb{A}$ 46'54	
	7360 Mar 11 18:31	0° $\mathbb{Y}$					
evening rise	7360 Mar 14 16:06	4° $\mathbb{Y}$ 36'25		superior conj	7361 Feb 06 07:47	18° $\mathbb{A}$ 52'30	-0°59'56
greatest brilliancy	7360 Mar 23 06:20	18° $\mathbb{Y}$ 15'44	-0.8m	minimum elong	7361 Feb 06 00:43	18° $\mathbb{A}$ 24'32	0°58'57
	7360 Mar 31 01:06	0° $\mathbb{B}$		max. Earth dist.	7361 Feb 09 15:32	24° $\mathbb{A}$ 06'55	1.45291 AU
asc. node	7360 Apr 04 11:12	5° $\mathbb{B}$ 36'47			7361 Feb 13 09:46	0° $\mathbb{H}$	
evening max el	7360 Apr 05 11:19	6° $\mathbb{B}$ 40'46	18°51'32	evening rise	7361 Feb 22 12:47	14° $\mathbb{H}$ 09'47	
retrograde	7360 Apr 12 04:39	10° $\mathbb{B}$ 25'14			7361 Mar 04 20:24	0° $\mathbb{Y}$	
evening set	7360 Apr 15 12:22	9° $\mathbb{B}$ 21'38		greatest brilliancy	7361 Mar 07 23:06	4° $\mathbb{Y}$ 40'36	-0.7m
inferior conj	7360 Apr 21 02:24	3° $\mathbb{B}$ 39'37	3°26'09	evening max el	7361 Mar 19 17:47	20° $\mathbb{Y}$ 16'05	19°39'46
minimum elong	7360 Apr 21 02:18	3° $\mathbb{B}$ 39'56	3°26'06	asc. node	7361 Mar 22 08:14	22° $\mathbb{Y}$ 35'12	
min. Earth dist.	7360 Apr 22 20:23	1° $\mathbb{B}$ 28'37	0.65740 AU	retrograde	7361 Mar 27 02:14	24° $\mathbb{Y}$ 29'26	
	7360 Apr 24 02:08	30° $\mathbb{R}$ $\mathbb{Y}$		evening set	7361 Mar 30 17:52	23° $\mathbb{Y}$ 11'28	
morning rise	7360 Apr 26 15:42	27° $\mathbb{Y}$ 22'52		inferior conj	7361 Apr 05 03:31	17° $\mathbb{Y}$ 14'41	3°18'48
direct	7360 May 03 03:17	24° $\mathbb{Y}$ 35'11		minimum elong	7361 Apr 05 02:17	17° $\mathbb{Y}$ 18'46	3°18'38
desc. node	7360 May 09 15:26	26° $\mathbb{Y}$ 48'51		min. Earth dist.	7361 Apr 06 06:38	15° $\mathbb{Y}$ 44'41	0.67026 AU
	7360 May 13 18:45	0° $\mathbb{B}$		morning rise	7361 Apr 10 10:24	10° $\mathbb{Y}$ 57'44	
morning max el	7360 May 16 06:06	2° $\mathbb{B}$ 21'36	26°43'56	direct	7361 Apr 16 11:18	8° $\mathbb{Y}$ 16'13	
	7360 Jun 06 00:34	0° $\mathbb{I}$		desc. node	7361 Apr 26 12:26	13° $\mathbb{Y}$ 30'38	
morning set	7360 Jun 21 03:02	26° $\mathbb{I}$ 11'28		morning max el	7361 Apr 28 15:48	15° $\mathbb{Y}$ 34'13	25°29'48
	7360 Jun 23 02:35	0° $\mathbb{E}$			7361 May 10 12:44	0° $\mathbb{B}$	
max. Earth dist.	7360 Jun 25 08:15	4° $\mathbb{E}$ 24'23	1.34320 AU		7361 May 29 21:46	0° $\mathbb{I}$	
				morning set	7361 Jun 03 19:07	8° $\mathbb{I}$ 38'17	
superior conj	7360 Jun 29 19:36	13° $\mathbb{E}$ 31'15	-0°16'22	max. Earth dist.	7361 Jun 07 11:53	15° $\mathbb{I}$ 28'50	1.36101 AU
minimum elong	7360 Jun 29 20:30	13° $\mathbb{E}$ 35'57	0°16'16				
asc. node	7360 Jul 01 10:23	16° $\mathbb{E}$ 53'41		superior conj	7361 Jun 13 10:45	27° $\mathbb{I}$ 02'54	-0°47'27
evening rise	7360 Jul 07 07:00	29° $\mathbb{E}$ 13'35		minimum elong	7361 Jun 13 13:33	27° $\mathbb{I}$ 16'51	0°47'00
	7360 Jul 07 15:55	0° $\mathbb{Q}$			7361 Jun 14 22:03	0° $\mathbb{E}$	
	7360 Jul 25 16:58	0° $\mathbb{M}$		asc. node	7361 Jun 18 07:23	6° $\mathbb{E}$ 53'37	
evening max el	7360 Jul 26 19:11	1° $\mathbb{M}$ 07'18	21°12'33	evening rise	7361 Jun 21 12:50	13° $\mathbb{E}$ 29'19	
desc. node	7360 Aug 05 14:39	6° $\mathbb{M}$ 51'40			7361 Jun 30 04:20	0° $\mathbb{Q}$	
retrograde	7360 Aug 07 18:29	7° $\mathbb{M}$ 03'01		evening max el	7361 Jul 09 02:37	12° $\mathbb{Q}$ 13'26	19°55'44
evening set	7360 Aug 10 02:33	6° $\mathbb{M}$ 50'18		retrograde	7361 Jul 19 09:29	17° $\mathbb{Q}$ 17'05	
inferior conj	7360 Aug 19 09:16	2° $\mathbb{M}$ 52'28	-3°54'38	evening set	7361 Jul 21 06:29	17° $\mathbb{Q}$ 07'44	
minimum elong	7360 Aug 18 23:57	3° $\mathbb{M}$ 05'35	3°51'58	desc. node	7361 Jul 23 11:42	16° $\mathbb{Q}$ 34'10	
min. Earth dist.	7360 Aug 19 17:22	2° $\mathbb{M}$ 41'04	0.54711 AU	inferior conj	7361 Jul 30 06:10	13° $\mathbb{Q}$ 07'26	-2°02'56
	7360 Aug 24 22:45	30° $\mathbb{R}$ $\mathbb{Q}$		minimum elong	7361 Jul 30 00:30	13° $\mathbb{Q}$ 16'03	2°00'54
morning rise	7360 Aug 27 21:59	28° $\mathbb{Q}$ 58'26		min. Earth dist.	7361 Aug 01 05:01	11° $\mathbb{Q}$ 56'23	0.55180 AU
direct	7360 Aug 31 14:24	28° $\mathbb{Q}$ 29'15		morning rise	7361 Aug 07 16:41	8° $\mathbb{Q}$ 47'51	
	7360 Sep 06 22:21	0° $\mathbb{M}$		direct	7361 Aug 12 03:07	8° $\mathbb{Q}$ 04'42	
morning max el	7360 Sep 13 07:57	4° $\mathbb{M}$ 31'57	22°33'26	morning max el	7361 Aug 25 21:24	14° $\mathbb{Q}$ 52'12	24°18'49
asc. node	7360 Sep 27 09:46	23° $\mathbb{M}$ 56'10			7361 Sep 06 19:45	0° $\mathbb{M}$	
	7360 Sep 30 15:24	0° $\mathbb{A}$		asc. node	7361 Sep 14 06:47	13° $\mathbb{M}$ 06'58	
morning set	7360 Oct 05 10:21	9° $\mathbb{A}$ 45'25		morning set	7361 Sep 19 22:04	24° $\mathbb{M}$ 35'50	
					7361 Sep 22 10:21	0° $\mathbb{A}$	

superior conj	7361 Sep 26 19:55	9°♌35'54	1°37'26			7362 Aug 30 19:46	0°♏	
minimum elong	7361 Sep 26 18:35	9°♌28'40	1°37'21	asc. node		7362 Sep 01 03:48	2°♏40'16	
max. Earth dist.	7361 Sep 28 20:21	13°♌58'08	1.32835 AU	morning set		7362 Sep 04 09:12	9°♏22'23	
evening rise	7361 Oct 04 04:36	25°♌10'02						
	7361 Oct 06 14:44	0°♍		superior conj		7362 Sep 11 06:47	24°♏26'56	1°27'21
desc. node	7361 Oct 19 10:44	22°♍40'17		minimum elong		7362 Sep 11 04:46	24°♏15'48	1°27'07
	7361 Oct 24 07:44	0°♎		max. Earth dist.		7362 Sep 12 03:34	26°♏21'36	1.32065 AU
evening max el	7361 Nov 06 16:20	16°♎07'00	27°28'05			7362 Sep 13 19:22	0°♏	
retrograde	7361 Nov 20 08:41	23°♎25'14		evening rise		7362 Sep 18 06:27	9°♏33'02	
evening set	7361 Nov 27 10:16	20°♎52'12				7362 Sep 28 22:27	0°♍	
min. Earth dist.	7361 Dec 01 03:39	17°♎38'47	0.63556 AU	desc. node		7362 Oct 06 07:48	11°♍54'59	
inferior conj	7361 Dec 03 18:47	14°♎59'19	-2°27'18	evening max el		7362 Oct 20 00:25	28°♍46'35	27°17'19
minimum elong	7361 Dec 03 23:20	14°♎47'49	2°25'27			7362 Oct 21 08:42	0°♎	
morning rise	7361 Dec 10 14:11	9°♎41'53		retrograde		7362 Nov 02 20:41	5°♎59'03	
asc. node	7361 Dec 11 06:08	9°♎28'37		evening set		7362 Nov 09 22:59	3°♎40'51	
direct	7361 Dec 12 23:50	9°♎13'50		min. Earth dist.		7362 Nov 13 15:04	0°♎52'41	0.61633 AU
morning max el	7361 Dec 19 13:24	12°♎38'07	17°49'01			7362 Nov 14 15:02	30°♏♍	
	7361 Dec 31 11:24	0°♏		inferior conj		7362 Nov 16 15:41	28°♍10'13	-3°34'57
morning set	7362 Jan 05 00:09	7°♏47'50		minimum elong		7362 Nov 16 22:07	27°♍55'46	3°32'46
desc. node	7362 Jan 15 09:56	25°♏28'36		morning rise		7362 Nov 23 23:22	23°♍11'31	
				direct		7362 Nov 26 05:33	22°♍49'51	
superior conj	7362 Jan 17 10:35	28°♏49'16	-0°14'35	asc. node		7362 Nov 28 03:11	23°♍05'45	
minimum elong	7362 Jan 17 09:00	28°♏42'47	0°14'16	morning max el		7362 Dec 03 05:14	26°♍21'37	17°52'56
behind sun begin	7362 Jan 17 04:30	28°♏24'17				7362 Dec 06 08:30	0°♎	
behind sun end	7362 Jan 17 13:30	29°♏01'16		morning set		7362 Dec 18 22:56	21°♎00'29	
	7362 Jan 18 03:51	0°♏				7362 Dec 23 22:31	0°♏	
max. Earth dist.	7362 Jan 23 09:33	8°♏27'12	1.44429 AU					
evening rise	7362 Feb 01 23:49	23°♏27'18		superior conj		7362 Dec 29 15:10	10°♏00'24	0°26'31
	7362 Feb 06 06:42	0°♐		minimum elong		7362 Dec 29 17:27	10°♏10'12	0°26'16
	7362 Feb 27 07:55	0°♑		desc. node		7363 Jan 02 06:56	16°♏13'53	
evening max el	7362 Mar 02 19:02	3°♑53'47	20°42'21	max. Earth dist.		7363 Jan 06 00:17	22°♏24'21	1.42954 AU
asc. node	7362 Mar 09 05:17	8°♑26'53				7363 Jan 10 17:20	0°♏	
retrograde	7362 Mar 11 00:41	8°♑43'51		evening rise		7363 Jan 12 16:36	3°♏06'29	
evening set	7362 Mar 15 01:28	7°♑10'57				7363 Jan 30 17:19	0°♐	
inferior conj	7362 Mar 20 09:13	1°♑01'37	2°59'54	evening max el		7363 Feb 13 14:59	17°♐32'49	21°55'46
minimum elong	7362 Mar 20 07:14	1°♑08'25	2°59'32	retrograde		7363 Feb 22 22:06	23°♐03'30	
min. Earth dist.	7362 Mar 20 22:38	0°♑15'27	0.67872 AU	asc. node		7363 Feb 24 02:22	22°♐56'20	
	7362 Mar 21 03:09	30°♐♐		evening set		7363 Feb 27 09:25	21°♐15'17	
morning rise	7362 Mar 25 12:47	24°♐46'46		inferior conj		7363 Mar 04 17:16	14°♐56'03	2°31'15
direct	7362 Mar 31 00:33	22°♐20'17		minimum elong		7363 Mar 04 14:58	15°♐04'02	2°30'40
morning max el	7362 Apr 11 00:36	28°♐54'55	24°02'58	min. Earth dist.		7363 Mar 04 18:06	14°♐53'07	0.68287 AU
	7362 Apr 12 01:43	0°♑		morning rise		7363 Mar 09 20:21	8°♐44'49	
desc. node	7362 Apr 13 09:24	1°♑26'10		direct		7363 Mar 14 17:57	6°♐38'56	
	7362 May 04 07:11	0°♒		morning max el		7363 Mar 24 11:00	12°♐22'23	22°33'30
morning set	7362 May 16 14:56	20°♒05'24		desc. node		7363 Mar 31 06:23	20°♐14'12	
max. Earth dist.	7362 May 20 08:17	26°♒37'05	1.38230 AU			7363 Apr 07 12:18	0°♑	
	7362 May 22 05:23	0°♒		morning set		7363 Apr 27 08:52	0°♒18'06	
						7363 Apr 27 04:27	0°♒	
superior conj	7362 May 27 13:47	9°♒57'05	-1°18'17	max. Earth dist.		7363 May 02 05:13	8°♒23'16	1.40470 AU
minimum elong	7362 May 27 18:26	10°♒19'13	1°17'40					
asc. node	7362 Jun 05 04:26	26°♒44'32		superior conj		7363 May 10 00:20	22°♒02'52	-1°45'47
evening rise	7362 Jun 05 12:09	27°♒22'31		minimum elong		7363 May 10 05:55	22°♒28'06	1°45'17
	7362 Jun 06 20:18	0°♓				7363 May 14 08:28	0°♒	
evening max el	7362 Jun 21 22:36	24°♓03'46	18°59'00	evening rise		7363 May 20 01:41	10°♒44'33	
retrograde	7362 Jun 30 14:01	28°♓19'29		asc. node		7363 May 23 01:29	16°♒21'30	
evening set	7362 Jul 02 13:22	28°♓07'03				7363 May 30 23:29	0°♓	
desc. node	7362 Jul 10 08:44	24°♓10'21		evening max el		7363 Jun 05 03:58	6°♓32'10	18°22'53
inferior conj	7362 Jul 10 19:23	23°♓51'48	-0°08'01	retrograde		7363 Jun 12 13:58	10°♓14'15	
minimum elong	7362 Jul 10 19:03	23°♓52'23	0°07'59	evening set		7363 Jun 14 20:08	9°♓54'35	
transit middle	7362 Jul 10 19:03	23°♓52'23	0°07'59	inferior conj		7363 Jun 22 06:13	5°♓19'00	1°25'12
transit begin	7362 Jul 10 15:47	23°♓58'05		minimum elong		7363 Jun 22 08:53	5°♓13'30	1°24'14
transit end	7362 Jul 10 22:18	23°♓46'41		min. Earth dist.		7363 Jun 25 15:53	2°♓32'55	0.58494 AU
min. Earth dist.	7362 Jul 13 19:58	21°♓45'45	0.56535 AU	desc. node		7363 Jun 27 05:45	1°♓22'50	
morning rise	7362 Jul 18 21:27	18°♓56'12				7363 Jun 29 10:25	30°♒♒	
direct	7362 Jul 24 04:57	17°♓49'24		morning rise		7363 Jun 29 18:24	29°♒49'15	
morning max el	7362 Aug 07 11:00	25°♓10'30	25°56'34	direct		7363 Jul 05 20:42	28°♒11'31	
	7362 Aug 11 22:49	0°♓				7363 Jul 12 12:05	0°♓	

morning max el	7363 Jul 20 06:00	5°☿55'07	27°10'35		7364 Jul 11 19:38	0°☿	
	7363 Aug 07 02:48	0°♊			7364 Jul 29 18:40	0°♊	
asc. node	7363 Aug 19 00:50	22°♊29'42		morning set	7364 Aug 02 23:01	8°♊24'02	
morning set	7363 Aug 19 18:09	24°♊00'27		asc. node	7364 Aug 04 21:50	12°♊29'20	
	7363 Aug 22 13:17	0°♋		max. Earth dist.	7364 Aug 08 23:50	21°♊18'52	1.31861 AU
superior conj	7363 Aug 26 18:38	9°♋17'58	1°12'11	superior conj	7364 Aug 10 05:37	24°♊02'43	0°52'22
minimum elong	7363 Aug 26 16:22	9°♋05'25	1°11'48	minimum elong	7364 Aug 10 03:35	23°♊51'31	0°51'56
max. Earth dist.	7363 Aug 26 14:03	8°♋52'35	1.31739 AU		7364 Aug 12 22:21	0°♋	
evening rise	7363 Sep 02 13:43	24°♋09'40		evening rise	7364 Aug 17 00:09	8°♋52'36	
	7363 Sep 05 08:59	0°♌			7364 Aug 27 19:46	0°♌	
	7363 Sep 22 22:03	0°♌		desc. node	7364 Sep 09 01:55	17°♌45'12	
desc. node	7363 Sep 23 04:51	0°♌23'04		evening max el	7364 Sep 12 19:35	21°♌41'46	25°17'23
evening max el	7363 Oct 02 02:06	10°♌39'58	26°32'42	retrograde	7364 Sep 26 17:18	28°♌43'43	
retrograde	7363 Oct 16 00:03	17°♌46'54		evening set	7364 Oct 02 13:12	27°♌25'45	
evening set	7363 Oct 22 17:36	15°♌54'24		min. Earth dist.	7364 Oct 07 07:14	24°♌46'06	0.57536 AU
min. Earth dist.	7363 Oct 26 15:40	13°♌19'28	0.59558 AU	inferior conj	7364 Oct 10 06:43	22°♌44'59	-5°19'49
inferior conj	7363 Oct 29 20:47	10°♌49'02	-4°36'24	minimum elong	7364 Oct 10 10:53	22°♌37'53	5°19'21
minimum elong	7363 Oct 30 03:41	10°♌35'31	4°34'45	morning rise	7364 Oct 18 10:54	18°♌31'34	
morning rise	7363 Nov 06 16:01	6°♌12'23		direct	7364 Oct 20 21:46	18°♌13'41	
direct	7363 Nov 08 22:25	5°♌53'57		morning max el	7364 Oct 29 18:54	22°♌27'29	19°01'01
asc. node	7363 Nov 15 00:14	8°♌14'31		asc. node	7364 Oct 31 21:15	24°♌40'58	
morning max el	7363 Nov 16 16:17	9°♌41'45	18°16'24		7364 Nov 04 20:02	0°♍	
	7363 Nov 29 21:49	0°♎		morning set	7364 Nov 15 10:42	19°♍11'51	
morning set	7363 Dec 02 11:58	4°♎53'11			7364 Nov 20 21:57	0°♎	
superior conj	7363 Dec 11 19:41	22°♎20'41	0°58'54	superior conj	7364 Nov 23 18:55	5°♎34'19	1°21'43
minimum elong	7363 Dec 11 23:14	22°♎36'49	0°58'30	minimum elong	7364 Nov 23 22:01	5°♎49'11	1°21'29
	7363 Dec 16 02:29	0°♏		max. Earth dist.	7364 Nov 30 16:06	18°♎20'41	1.38886 AU
max. Earth dist.	7363 Dec 19 10:18	5°♏44'48	1.41030 AU	evening rise	7364 Dec 04 11:55	25°♎03'40	
desc. node	7363 Dec 20 03:58	6°♏59'45		desc. node	7364 Dec 06 01:00	27°♎41'51	
evening rise	7363 Dec 24 03:12	13°♏35'40			7364 Dec 07 09:53	0°♏	
	7364 Jan 03 14:27	0°♐			7364 Dec 27 07:16	0°♐	
	7364 Jan 26 01:53	0°♑		evening max el	7365 Jan 08 20:05	14°♐58'53	24°34'14
evening max el	7364 Jan 27 06:43	1°♑14'21	23°15'02	retrograde	7365 Jan 20 08:20	21°♐42'36	
retrograde	7364 Feb 06 17:01	7°♑24'45		evening set	7365 Jan 25 20:04	19°♐25'17	
asc. node	7364 Feb 10 23:25	5°♑54'08		asc. node	7365 Jan 27 20:28	17°♐24'51	
evening set	7364 Feb 11 16:08	5°♑21'21		min. Earth dist.	7365 Jan 30 10:37	14°♐11'06	0.67899 AU
	7364 Feb 16 07:00	30°♒		inferior conj	7365 Jan 31 08:47	12°♐57'08	1°08'39
min. Earth dist.	7364 Feb 16 14:51	29°♒33'04	0.68291 AU	minimum elong	7365 Jan 31 07:15	13°♐02'16	1°08'07
inferior conj	7364 Feb 17 01:44	28°♒55'36	1°53'56	morning rise	7365 Feb 05 18:35	6°♒57'15	
minimum elong	7364 Feb 16 23:35	29°♒03'01	1°53'16	direct	7365 Feb 09 12:57	5°♒36'04	
morning rise	7364 Feb 22 06:58	22°♒49'16		morning max el	7365 Feb 17 01:52	9°♒50'39	19°57'36
direct	7364 Feb 26 14:28	21°♒06'04		desc. node	7365 Mar 04 00:22	29°♒34'18	
morning max el	7364 Mar 06 02:38	26°♒00'27	21°09'45		7365 Mar 04 07:19	0°♒	
	7364 Mar 09 17:34	0°♓		morning set	7365 Mar 15 20:58	17°♓32'15	
desc. node	7364 Mar 17 03:23	9°♓40'22			7365 Mar 23 20:51	0°♑	
	7364 Mar 30 23:49	0°♑		max. Earth dist.	7365 Mar 26 17:57	4°♑33'56	1.44158 AU
morning set	7364 Apr 05 23:19	9°♑15'31		superior conj	7365 Apr 01 02:02	13°♑09'42	-2°10'53
max. Earth dist.	7364 Apr 13 08:05	21°♑03'45	1.42532 AU	minimum elong	7365 Apr 01 00:51	13°♑04'53	2°10'53
	7364 Apr 18 17:06	0°♒			7365 Apr 11 04:41	0°♒	
superior conj	7364 Apr 20 13:35	3°♒09'04	-2°05'17	evening rise	7365 Apr 14 06:40	5°♒15'49	
minimum elong	7364 Apr 20 17:39	3°♒26'31	2°05'09	asc. node	7365 Apr 25 19:34	24°♒30'27	
evening rise	7364 May 02 01:24	23°♒25'38			7365 Apr 29 17:27	0°♓	
	7364 May 05 17:14	0°♓		evening max el	7365 May 02 04:07	2°♓45'42	18°09'48
asc. node	7364 May 08 22:32	5°♓39'01		retrograde	7365 May 08 13:42	6°♓07'34	
evening max el	7364 May 18 14:57	19°♓29'03	18°06'45	evening set	7365 May 11 10:10	5°♓25'33	
retrograde	7364 May 25 07:23	22°♓53'40		inferior conj	7365 May 17 13:32	0°♓10'46	3°07'18
evening set	7364 May 27 20:50	22°♓23'49		minimum elong	7365 May 17 15:39	0°♓05'04	3°06'53
inferior conj	7364 Jun 03 13:33	17°♓27'54	2°29'25		7365 May 17 17:31	30°♔	
minimum elong	7364 Jun 03 16:39	17°♓20'30	2°28'34	min. Earth dist.	7365 May 20 07:32	27°♔13'34	0.62893 AU
min. Earth dist.	7364 Jun 06 19:14	14°♓24'23	0.60714 AU	morning rise	7365 May 23 19:36	24°♔02'03	
morning rise	7364 Jun 10 10:02	11°♓33'23		direct	7365 May 30 14:35	21°♔28'04	
desc. node	7364 Jun 13 02:47	10°♓09'08		desc. node	7365 May 30 23:47	21°♔28'31	
direct	7364 Jun 17 00:34	9°♓24'00		morning max el	7365 Jun 13 15:04	29°♔30'47	27°50'45
morning max el	7364 Jul 01 07:51	17°♓21'39	27°49'46		7365 Jun 14 02:36	0°♓	

	7365 Jul 05 18:35	0°☿		morning rise	7366 May 06 20:29	7°☿03'28	
morning set	7365 Jul 17 21:41	22°☿27'04		direct	7366 May 13 12:35	4°☿16'53	
	7365 Jul 21 13:35	0°♊		desc. node	7366 May 17 20:48	5°☿16'43	
asc. node	7365 Jul 22 18:50	2°♊34'46		morning max el	7366 May 27 00:52	12°☿12'56	27°16'36
max. Earth dist.	7365 Jul 23 04:58	3°♊28'44	1.32443 AU		7366 Jun 10 05:29	0°♊	
					7366 Jun 28 07:46	0°☿	
superior conj	7365 Jul 25 13:59	8°♊35'58	0°28'22	morning set	7366 Jul 01 11:26	6°☿00'50	
minimum elong	7365 Jul 25 12:42	8°♊28'57	0°28'02	max. Earth dist.	7366 Jul 06 01:35	15°☿11'38	1.33500 AU
evening rise	7365 Aug 01 11:50	23°♊36'08					
	7365 Aug 04 13:09	0°♋		superior conj	7366 Jul 09 17:40	22°☿50'56	0°00'47
	7365 Aug 23 06:39	0°♌		minimum elong	7366 Jul 09 17:38	22°☿50'44	0°00'42
evening max el	7365 Aug 25 07:32	2°♌05'46	23°42'33	behind sun begin	7366 Jul 09 12:06	22°☿21'31	
desc. node	7365 Aug 26 22:57	3°♌35'57		behind sun end	7366 Jul 09 23:10	23°☿20'01	
retrograde	7365 Sep 07 22:38	8°♌55'35		asc. node	7366 Jul 09 15:50	22°☿41'13	
evening set	7365 Sep 12 08:33	8°♌12'51			7366 Jul 13 02:10	0°♊	
min. Earth dist.	7365 Sep 18 17:43	5°♌09'45	0.55871 AU	evening rise	7366 Jul 16 22:52	8°♊13'51	
inferior conj	7365 Sep 20 20:24	3°♌53'40	-5°27'43		7366 Jul 28 09:37	0°♋	
minimum elong	7365 Sep 20 18:02	3°♌57'14	5°27'35	evening max el	7366 Aug 06 21:32	12°♋22'50	22°04'30
morning rise	7365 Sep 29 05:48	29°♋58'50		desc. node	7366 Aug 13 19:59	17°♋23'25	
	7365 Sep 29 03:47	30°♋		retrograde	7366 Aug 19 15:45	18°♋43'02	
direct	7365 Oct 02 01:31	29°♋38'56		evening set	7366 Aug 22 14:25	18°♋23'47	
	7365 Oct 04 21:11	0°♌		min. Earth dist.	7366 Aug 31 02:40	14°♋43'06	0.54882 AU
morning max el	7365 Oct 12 09:56	4°♌29'37	20°07'51	inferior conj	7366 Aug 31 18:00	14°♋21'34	-4°43'51
asc. node	7365 Oct 18 18:16	12°♌10'06		minimum elong	7366 Aug 31 09:28	14°♋33'34	4°42'04
	7365 Oct 28 18:54	0°♍		morning rise	7366 Sep 09 06:00	10°♋32'40	
morning set	7365 Oct 30 15:54	3°♍47'28		direct	7366 Sep 12 14:14	10°♋07'49	
				morning max el	7366 Sep 24 12:09	15°♋43'34	21°35'41
superior conj	7365 Nov 07 07:55	19°♍27'05	1°35'35		7366 Oct 05 08:38	0°♌	
minimum elong	7365 Nov 07 09:47	19°♍36'30	1°35'33	asc. node	7366 Oct 05 15:15	0°♌27'53	
	7365 Nov 12 17:11	0°♎		morning set	7366 Oct 15 01:09	18°♌33'38	
max. Earth dist.	7365 Nov 12 22:01	0°♎22'59	1.36786 AU		7366 Oct 20 11:18	0°♍	
evening rise	7365 Nov 16 17:29	7°♎27'24					
desc. node	7365 Nov 22 22:02	18°♎16'09		superior conj	7366 Oct 22 06:39	3°♍47'33	1°41'35
	7365 Nov 30 05:03	0°♏		minimum elong	7366 Oct 22 07:08	3°♍50'03	1°41'38
evening max el	7365 Dec 22 08:58	28°♏45'07	25°46'25	max. Earth dist.	7366 Oct 26 09:45	12°♍15'52	1.34942 AU
	7365 Dec 23 16:41	0°♐		evening rise	7366 Oct 30 16:13	20°♍37'41	
retrograde	7366 Jan 03 18:58	5°♐51'19			7366 Nov 04 18:20	0°♎	
evening set	7366 Jan 09 19:34	3°♐22'38		desc. node	7366 Nov 09 19:03	8°♎37'58	
	7366 Jan 13 02:00	30°♐			7366 Nov 24 03:25	0°♏	
min. Earth dist.	7366 Jan 14 03:09	28°♏42'55	0.67134 AU	evening max el	7366 Dec 04 22:13	12°♏27'46	26°44'06
asc. node	7366 Jan 14 17:31	27°♏57'38		retrograde	7366 Dec 18 00:06	19°♏44'47	
inferior conj	7366 Jan 15 12:33	26°♏57'12	0°15'56	evening set	7366 Dec 24 12:45	17°♏09'00	
minimum elong	7366 Jan 15 12:09	26°♏58'30	0°15'50	min. Earth dist.	7366 Dec 28 14:07	13°♏04'02	0.66010 AU
transit middle	7366 Jan 15 12:09	26°♏58'30	0°15'50	inferior conj	7366 Dec 30 11:02	10°♏51'52	-0°43'29
transit begin	7366 Jan 15 11:37	27°♏00'11		minimum elong	7366 Dec 30 12:16	10°♏48'15	0°42'53
transit end	7366 Jan 15 12:41	26°♏56'48		asc. node	7367 Jan 01 14:33	8°♏25'31	
morning rise	7366 Jan 21 05:13	21°♏05'36		morning rise	7367 Jan 05 12:42	5°♏11'09	
direct	7366 Jan 24 11:55	20°♏03'54		direct	7367 Jan 08 09:36	4°♏25'26	
morning max el	7366 Jan 31 08:47	23°♏50'28	19°00'16	morning max el	7367 Jan 14 21:49	7°♏55'20	18°19'14
	7366 Feb 05 13:21	0°♐			7367 Jan 30 08:40	0°♑	
desc. node	7366 Feb 18 21:22	19°♑48'12		morning set	7367 Feb 03 08:32	6°♑24'50	
morning set	7366 Feb 23 01:39	26°♑17'32		desc. node	7367 Feb 05 18:21	10°♑16'40	
	7366 Feb 25 10:49	0°♒			7367 Feb 18 05:03	0°♓	
max. Earth dist.	7366 Mar 09 09:35	18°♒40'09	1.45172 AU				
				superior conj	7367 Feb 18 20:13	0°♓59'31	-1°24'35
superior conj	7366 Mar 11 15:56	22°♓14'04	-1°57'18	minimum elong	7367 Feb 18 10:57	0°♓23'12	1°23'31
minimum elong	7366 Mar 11 08:09	21°♓43'22	1°56'47	max. Earth dist.	7367 Feb 20 04:53	3°♓07'31	1.45465 AU
	7366 Mar 16 13:31	0°♑		evening rise	7367 Mar 06 21:09	26°♓05'26	
evening rise	7366 Mar 26 13:26	16°♑07'40			7367 Mar 09 09:00	0°♑	
	7366 Apr 04 01:59	0°♒		greatest brilliancy	7367 Mar 17 17:17	13°♑00'04	-0.8m
asc. node	7366 Apr 12 16:36	12°♒46'52		evening max el	7367 Mar 30 01:45	29°♑48'31	19°10'07
evening max el	7366 Apr 15 16:30	16°♒13'53	18°31'16		7367 Mar 30 06:19	0°♒	
retrograde	7366 Apr 22 04:33	19°♒46'22		asc. node	7367 Mar 30 13:39	0°♒17'58	
evening set	7366 Apr 25 08:04	18°♒50'53		retrograde	7367 Apr 06 00:29	3°♒43'35	
inferior conj	7366 May 01 01:59	13°♒18'34	3°24'06	evening set	7367 Apr 09 11:32	2°♒33'51	
minimum elong	7366 May 01 02:40	13°♒16'31	3°24'00		7367 Apr 12 07:35	30°♒	
min. Earth dist.	7366 May 03 04:59	10°♒46'55	0.64816 AU	inferior conj	7367 Apr 14 23:22	26°♑45'29	3°24'32

minimum elong	7367 Apr 14 22:45	26° $\Upsilon$ 47'28	3°24'28	inferior conj	7368 Mar 29 02:45	10° $\Upsilon$ 26'04	3°12'02
min. Earth dist.	7367 Apr 16 10:55	24° $\Upsilon$ 51'22	0.66351 AU	minimum elong	7368 Mar 29 01:09	10° $\Upsilon$ 31'27	3°11'48
morning rise	7367 Apr 20 09:36	20° $\Upsilon$ 28'34		min. Earth dist.	7368 Mar 29 23:48	9° $\Upsilon$ 14'57	0.67441 AU
direct	7367 Apr 26 17:11	17° $\Upsilon$ 42'12		morning rise	7368 Apr 03 07:53	4° $\Upsilon$ 09'59	
desc. node	7367 May 04 17:49	21° $\Upsilon$ 04'41		direct	7368 Apr 09 03:21	1° $\Upsilon$ 34'17	
morning max el	7367 May 09 10:58	25° $\Upsilon$ 17'34	26°14'30	desc. node	7368 Apr 20 14:49	8° $\Upsilon$ 20'58	
	7367 May 13 17:47	0° $\text{8}$		morning max el	7368 Apr 20 20:18	8° $\Upsilon$ 34'46	24°53'53
	7367 Jun 03 17:23	0° $\text{II}$			7368 May 07 15:50	0° $\text{8}$	
morning set	7367 Jun 14 12:43	18° $\text{II}$ 55'43			7368 May 26 07:30	0° $\text{II}$	
max. Earth dist.	7367 Jun 18 11:33	26° $\text{II}$ 27'52	1.35036 AU	morning set	7368 May 26 20:58	0° $\text{II}$ 59'33	
	7367 Jun 20 06:41	0° $\text{5}$		max. Earth dist.	7368 May 30 11:54	7° $\text{II}$ 32'38	1.36982 AU
superior conj	7367 Jun 23 14:16	6° $\text{5}$ 41'03	-0°29'25	superior conj	7368 Jun 06 00:48	19° $\text{II}$ 58'36	-1°00'41
minimum elong	7367 Jun 23 15:57	6° $\text{5}$ 49'37	0°29'10	minimum elong	7368 Jun 06 04:25	20° $\text{II}$ 16'21	1°00'09
asc. node	7367 Jun 26 12:50	12° $\text{5}$ 44'56			7368 Jun 11 01:41	0° $\text{5}$	
evening rise	7367 Jul 01 07:16	22° $\text{5}$ 40'00		asc. node	7368 Jun 12 09:53	2° $\text{5}$ 42'09	
	7367 Jul 04 22:04	0° $\text{9}$		evening rise	7368 Jun 14 10:45	6° $\text{5}$ 48'07	
evening max el	7367 Jul 19 21:30	23° $\text{9}$ 05'31	20°37'25		7368 Jun 27 13:53	0° $\text{9}$	
retrograde	7367 Jul 31 03:47	28° $\text{9}$ 39'04		evening max el	7368 Jul 01 10:31	4° $\text{9}$ 31'10	19°28'58
desc. node	7367 Jul 31 17:02	28° $\text{9}$ 38'18		retrograde	7368 Jul 10 23:49	9° $\text{9}$ 13'32	
evening set	7367 Aug 02 05:16	28° $\text{9}$ 28'40		evening set	7368 Jul 12 20:47	9° $\text{9}$ 03'27	
inferior conj	7367 Aug 11 10:51	24° $\text{9}$ 31'43	-3°09'45	desc. node	7368 Jul 17 14:05	7° $\text{9}$ 20'17	
minimum elong	7367 Aug 11 02:28	24° $\text{9}$ 43'45	3°07'01	inferior conj	7368 Jul 21 13:39	4° $\text{9}$ 57'28	-1°12'42
min. Earth dist.	7367 Aug 12 12:28	23° $\text{9}$ 54'57	0.54800 AU	minimum elong	7368 Jul 21 10:22	5° $\text{9}$ 02'44	1°11'31
morning rise	7367 Aug 19 23:19	20° $\text{9}$ 29'17		min. Earth dist.	7368 Jul 24 01:12	3° $\text{9}$ 22'11	0.55662 AU
direct	7367 Aug 23 23:10	19° $\text{9}$ 55'06		morning rise	7368 Jul 29 21:26	0° $\text{9}$ 23'14	
morning max el	7367 Sep 06 04:25	26° $\text{9}$ 17'12	23°18'12		7368 Jul 31 03:33	30° $\text{9}$ 5	
	7367 Sep 09 17:39	0° $\text{9}$		direct	7368 Aug 03 16:32	29° $\text{5}$ 31'32	
asc. node	7367 Sep 22 12:16	19° $\text{9}$ 22'27			7368 Aug 07 05:10	0° $\text{9}$	
	7367 Sep 27 21:29	0° $\text{9}$		morning max el	7368 Aug 17 17:20	6° $\text{9}$ 34'16	25°02'26
morning set	7367 Sep 29 12:28	3° $\text{9}$ 24'17			7368 Sep 03 17:36	0° $\text{9}$	
superior conj	7367 Oct 06 12:00	18° $\text{9}$ 26'02	1°40'42	asc. node	7368 Sep 08 09:17	8° $\text{9}$ 44'24	
minimum elong	7367 Oct 06 11:14	18° $\text{9}$ 21'57	1°40'42	morning set	7368 Sep 13 00:12	18° $\text{9}$ 14'43	
max. Earth dist.	7367 Oct 09 06:01	24° $\text{9}$ 17'44	1.33480 AU		7368 Sep 18 09:57	0° $\text{9}$	
	7367 Oct 11 23:54	0° $\text{9}$		superior conj	7368 Sep 19 21:30	3° $\text{9}$ 15'15	1°33'49
evening rise	7367 Oct 14 04:07	4° $\text{9}$ 23'28		minimum elong	7368 Sep 19 19:50	3° $\text{9}$ 06'06	1°33'40
desc. node	7367 Oct 27 16:05	28° $\text{9}$ 40'43		max. Earth dist.	7368 Sep 21 10:01	6° $\text{9}$ 34'48	1.32453 AU
	7367 Oct 28 11:54	0° $\text{9}$		evening rise	7368 Sep 27 01:47	18° $\text{9}$ 35'53	
evening max el	7367 Nov 17 10:56	25° $\text{9}$ 55'33	27°19'56		7368 Oct 02 20:42	0° $\text{9}$	
	7367 Nov 22 08:46	0° $\text{9}$		desc. node	7368 Oct 13 13:09	18° $\text{9}$ 16'29	
retrograde	7367 Nov 30 23:00	3° $\text{9}$ 14'32			7368 Oct 21 21:01	0° $\text{9}$	
evening set	7367 Dec 07 21:18	0° $\text{9}$ 37'55		evening max el	7368 Oct 29 21:13	8° $\text{9}$ 55'58	27°27'28
	7367 Dec 08 16:24	30° $\text{9}$ 8		retrograde	7368 Nov 12 15:17	16° $\text{9}$ 11'59	
min. Earth dist.	7367 Dec 11 17:11	27° $\text{9}$ 06'51	0.64545 AU	evening set	7368 Nov 19 18:20	13° $\text{9}$ 43'35	
inferior conj	7367 Dec 14 01:50	24° $\text{9}$ 34'53	-1°48'23	min. Earth dist.	7368 Nov 23 10:29	10° $\text{9}$ 42'19	0.62770 AU
minimum elong	7367 Dec 14 05:07	24° $\text{9}$ 26'04	1°46'56	inferior conj	7368 Nov 26 06:10	7° $\text{9}$ 59'49	-2°56'14
asc. node	7367 Dec 19 11:36	19° $\text{9}$ 42'51		minimum elong	7368 Nov 26 11:36	7° $\text{9}$ 46'44	2°54'10
morning rise	7367 Dec 20 14:22	19° $\text{9}$ 08'04		morning rise	7368 Dec 03 06:48	2° $\text{9}$ 50'14	
direct	7367 Dec 23 03:31	18° $\text{9}$ 34'35		asc. node	7368 Dec 05 08:39	2° $\text{9}$ 25'35	
morning max el	7367 Dec 29 14:23	21° $\text{9}$ 58'01	17°55'05	direct	7368 Dec 05 14:40	2° $\text{9}$ 25'18	
	7368 Jan 04 20:41	0° $\text{9}$		morning max el	7368 Dec 12 07:29	5° $\text{9}$ 51'23	17°48'27
morning set	7368 Jan 15 20:35	17° $\text{9}$ 58'04			7368 Dec 27 23:30	0° $\text{9}$	
	7368 Jan 23 02:04	0° $\text{9}$		morning set	7368 Dec 28 08:33	0° $\text{9}$ 39'54	
desc. node	7368 Jan 23 15:20	0° $\text{9}$ 54'31		superior conj	7369 Jan 08 23:56	20° $\text{9}$ 46'21	0°03'46
superior conj	7368 Jan 29 10:20	10° $\text{9}$ 18'11	-0°40'39	minimum elong	7369 Jan 09 00:19	20° $\text{9}$ 47'57	0°03'48
minimum elong	7368 Jan 29 05:36	9° $\text{9}$ 59'08	0°39'54	behind sun begin	7369 Jan 08 15:25	20° $\text{9}$ 10'39	
max. Earth dist.	7368 Feb 03 00:39	17° $\text{9}$ 36'54	1.45009 AU	behind sun end	7369 Jan 09 09:13	21° $\text{9}$ 25'11	
	7368 Feb 10 22:57	0° $\text{9}$		desc. node	7369 Jan 09 12:21	21° $\text{9}$ 38'13	
evening rise	7368 Feb 14 12:00	5° $\text{9}$ 27'50			7369 Jan 14 14:28	0° $\text{9}$	
greatest brilliancy	7368 Feb 29 05:49	27° $\text{9}$ 43'15	-0.6m	max. Earth dist.	7369 Jan 15 17:31	1° $\text{9}$ 49'12	1.43866 AU
	7368 Mar 01 19:30	0° $\text{9}$		evening rise	7369 Jan 23 23:31	14° $\text{9}$ 49'33	
evening max el	7368 Mar 12 06:07	13° $\text{9}$ 25'09	20°04'47		7369 Feb 02 23:58	0° $\text{9}$	
asc. node	7368 Mar 16 10:43	16° $\text{9}$ 50'11		evening max el	7369 Feb 23 04:53	27° $\text{9}$ 02'34	21°12'31
retrograde	7368 Mar 19 22:44	17° $\text{9}$ 53'07			7369 Feb 26 12:35	0° $\text{9}$	
evening set	7368 Mar 23 18:12	16° $\text{9}$ 28'36		asc. node	7369 Mar 03 07:48	2° $\text{9}$ 08'37	



retrograde	7369 Mar 03 21:05	2°♿10'12		evening set	7370 Feb 20 09:46	14°♿36'19	
evening set	7369 Mar 08 02:10	0°♿30'40		inferior conj	7370 Feb 25 18:09	8°♿13'43	2°16'28
	7369 Mar 08 16:36	30°♿		minimum elong	7370 Feb 25 15:52	8°♿21'41	2°15'49
inferior conj	7369 Mar 13 09:42	24°♿16'29	2°48'52	min. Earth dist.	7370 Feb 25 13:58	8°♿28'16	0.68327 AU
minimum elong	7369 Mar 13 07:32	24°♿23'59	2°48'24	morning rise	7370 Mar 02 21:49	2°♿04'09	
min. Earth dist.	7369 Mar 13 17:35	23°♿49'09	0.68093 AU	direct	7370 Mar 07 13:18	0°♿07'46	
morning rise	7369 Mar 18 12:44	18°♿02'55		morning max el	7370 Mar 16 17:44	5°♿30'14	21°56'46
direct	7369 Mar 23 18:22	15°♿44'59		desc. node	7370 Mar 25 08:48	15°♿46'51	
morning max el	7369 Apr 03 05:34	21°♿58'44	23°24'46		7370 Apr 04 11:20	0°♿	
desc. node	7369 Apr 07 11:49	26°♿40'56		morning set	7370 Apr 18 12:25	21°♿36'38	
	7369 Apr 10 04:43	0°♿			7370 Apr 23 15:39	0°♿	
	7369 Apr 30 23:02	0°♿		max. Earth dist.	7370 Apr 24 06:08	1°♿00'20	1.41375 AU
morning set	7369 May 08 06:27	11°♿56'57					
max. Earth dist.	7369 May 12 07:41	18°♿53'52	1.39179 AU	superior conj	7370 May 01 23:28	14°♿15'20	-1°55'22
	7369 May 18 12:15	0°♿		minimum elong	7370 May 02 04:50	14°♿38'58	1°55'00
					7370 May 10 16:03	0°♿	
superior conj	7369 May 19 21:23	2°♿33'26	-1°30'35	evening rise	7370 May 12 14:36	3°♿35'26	
minimum elong	7369 May 20 02:38	2°♿57'51	1°29'59	asc. node	7370 May 17 03:59	11°♿57'33	
evening rise	7369 May 29 06:24	20°♿29'35		evening max el	7370 May 28 19:13	29°♿21'12	18°13'42
asc. node	7369 May 30 06:56	22°♿27'56			7370 May 29 11:45	0°♿	
	7369 Jun 03 06:29	0°♿		retrograde	7370 Jun 04 20:18	2°♿53'43	
evening max el	7369 Jun 14 10:56	16°♿38'57	18°41'09	evening set	7370 Jun 07 05:37	2°♿30'03	
retrograde	7369 Jun 22 12:43	20°♿38'47			7370 Jun 11 15:28	30°♿♿	
evening set	7369 Jun 24 14:31	20°♿23'52		inferior conj	7370 Jun 14 07:55	27°♿46'06	1°55'53
inferior conj	7369 Jul 02 11:58	16°♿00'18	0°34'53	minimum elong	7370 Jun 14 11:01	27°♿39'17	1°54'52
minimum elong	7369 Jul 02 13:17	15°♿57'52	0°34'19	min. Earth dist.	7370 Jun 17 17:21	24°♿49'20	0.59426 AU
desc. node	7369 Jul 04 11:08	14°♿31'40		desc. node	7370 Jun 21 08:09	22°♿12'13	
min. Earth dist.	7369 Jul 05 18:20	13°♿34'38	0.57308 AU	morning rise	7370 Jun 21 13:25	22°♿04'29	
morning rise	7369 Jul 10 08:33	10°♿48'56		direct	7370 Jun 27 22:02	20°♿12'30	
direct	7369 Jul 16 00:24	9°♿29'33		morning max el	7370 Jul 12 06:54	28°♿03'34	27°31'42
morning max el	7369 Jul 30 09:05	17°♿02'15	26°31'43		7370 Jul 14 04:10	0°♿	
	7369 Aug 10 01:25	0°♿			7370 Aug 03 18:53	0°♿	
asc. node	7369 Aug 26 06:18	28°♿25'25		morning set	7370 Aug 12 18:04	17°♿31'13	
	7369 Aug 27 00:36	0°♿		asc. node	7370 Aug 13 03:19	18°♿19'44	
morning set	7369 Aug 28 10:38	2°♿58'40			7370 Aug 18 12:47	0°♿	
				max. Earth dist.	7370 Aug 19 05:24	1°♿31'43	1.31738 AU
superior conj	7369 Sep 04 09:02	18°♿07'26	1°21'32				
minimum elong	7369 Sep 04 06:52	17°♿55'23	1°21'13	superior conj	7370 Aug 19 20:45	2°♿56'43	1°04'20
max. Earth dist.	7369 Sep 04 18:56	19°♿02'11	1.31871 AU	minimum elong	7370 Aug 19 18:32	2°♿44'23	1°03'55
	7369 Sep 09 19:17	0°♿		evening rise	7370 Aug 26 15:05	17°♿45'46	
evening rise	7369 Sep 11 06:14	3°♿05'36			7370 Sep 01 15:08	0°♿	
	7369 Sep 25 16:23	0°♿		desc. node	7370 Sep 17 07:15	25°♿16'09	
desc. node	7369 Sep 30 10:12	7°♿13'26			7370 Sep 21 07:05	0°♿	
evening max el	7369 Oct 12 02:39	21°♿16'18	27°02'19	evening max el	7370 Sep 24 00:58	2°♿47'56	26°03'55
retrograde	7369 Oct 26 00:07	28°♿27'10		retrograde	7370 Oct 07 23:35	9°♿52'55	
evening set	7369 Nov 01 23:58	26°♿18'21		evening set	7370 Oct 14 09:19	8°♿14'42	
min. Earth dist.	7369 Nov 05 17:12	23°♿37'43	0.60758 AU	min. Earth dist.	7370 Oct 18 13:56	5°♿39'45	0.58675 AU
inferior conj	7369 Nov 08 20:44	20°♿58'00	-4°02'21	inferior conj	7370 Oct 21 18:01	3°♿19'48	-4°57'58
minimum elong	7369 Nov 09 03:38	20°♿43'21	4°00'17	minimum elong	7370 Oct 22 00:15	3°♿08'18	4°56'49
morning rise	7369 Nov 16 09:35	16°♿08'38			7370 Oct 26 20:11	30°♿♿	
direct	7369 Nov 18 15:14	15°♿48'50		morning rise	7370 Oct 29 17:28	28°♿52'51	
asc. node	7369 Nov 22 05:42	16°♿42'40		direct	7370 Nov 01 01:03	28°♿35'03	
morning max el	7369 Nov 25 21:47	19°♿26'27	18°00'27		7370 Nov 05 22:39	0°♿	
	7369 Dec 03 15:39	0°♿		morning max el	7370 Nov 09 05:39	2°♿33'07	18°32'38
morning set	7369 Dec 11 14:00	14°♿11'06		asc. node	7370 Nov 09 02:43	2°♿26'07	
	7369 Dec 20 05:44	0°♿		morning set	7370 Nov 25 07:37	28°♿16'07	
					7370 Nov 26 05:06	0°♿	
superior conj	7369 Dec 21 15:14	2°♿28'34	0°41'25				
minimum elong	7369 Dec 21 18:20	2°♿42'12	0°41'03	superior conj	7370 Dec 04 04:19	15°♿13'00	1°09'44
desc. node	7369 Dec 27 09:22	12°♿24'17		minimum elong	7370 Dec 04 07:49	15°♿29'20	1°09'23
max. Earth dist.	7369 Dec 29 05:42	15°♿29'48	1.42172 AU	max. Earth dist.	7370 Dec 11 13:24	28°♿30'18	1.40130 AU
evening rise	7370 Jan 03 22:47	24°♿47'22			7370 Dec 12 10:08	0°♿	
	7370 Jan 07 06:09	0°♿		desc. node	7370 Dec 14 06:22	3°♿08'55	
	7370 Jan 27 22:30	0°♿		evening rise	7370 Dec 15 18:42	5°♿41'38	
evening max el	7370 Feb 05 22:44	10°♿42'13	22°29'11		7370 Dec 31 09:26	0°♿	
retrograde	7370 Feb 15 17:41	16°♿30'54		evening max el	7371 Jan 19 13:19	24°♿25'22	23°49'17
asc. node	7370 Feb 18 04:52	15°♿59'49			7371 Jan 26 21:37	0°♿	

retrograde	7371 Jan 30 11:06	0° $\text{H}$ 50'48		evening set	7372 Jan 19 17:40	12° $\approx$ 43'15	
	7371 Feb 02 17:56	30° $\text{R}$ $\approx$		asc. node	7372 Jan 22 22:56	9° $\approx$ 19'33	
evening set	7371 Feb 04 15:26	28° $\approx$ 41'34		min. Earth dist.	7372 Jan 24 05:11	7° $\approx$ 43'48	0.67628 AU
asc. node	7371 Feb 05 01:55	28° $\approx$ 18'25		inferior conj	7372 Jan 25 08:06	6° $\approx$ 15'53	0°47'11
min. Earth dist.	7371 Feb 09 10:36	23° $\approx$ 07'35	0.68168 AU	minimum elong	7372 Jan 25 06:59	6° $\approx$ 19'34	0°46'47
inferior conj	7371 Feb 10 02:13	22° $\approx$ 14'23	1°35'41	morning rise	7372 Jan 30 20:33	0° $\approx$ 19'20	
minimum elong	7371 Feb 10 00:16	22° $\approx$ 21'03	1°35'02		7372 Jan 31 08:45	30° $\text{R}$ $\text{Z}$	
morning rise	7371 Feb 15 09:05	16° $\approx$ 10'25		direct	7372 Feb 03 09:51	29° $\text{Z}$ 06'42	
direct	7371 Feb 19 10:55	14° $\approx$ 36'34			7372 Feb 06 14:45	0° $\approx$	
morning max el	7371 Feb 27 12:14	19° $\approx$ 12'34	20°37'22	morning max el	7372 Feb 10 14:49	3° $\approx$ 07'21	19°31'15
	7371 Mar 08 08:47	0° $\text{H}$		greatest brilliancy	7372 Feb 23 11:45	20° $\approx$ 03'04	-0.7m
desc. node	7371 Mar 12 05:47	5° $\text{H}$ 25'44		desc. node	7372 Feb 27 02:46	25° $\approx$ 28'58	
morning set	7371 Mar 28 17:15	0° $\text{Y}$ 08'44			7372 Mar 01 02:09	0° $\text{H}$	
	7371 Mar 28 15:00	0° $\text{Y}$		morning set	7372 Mar 06 14:44	8° $\text{H}$ 28'32	
max. Earth dist.	7371 Apr 06 11:51	14° $\text{Y}$ 02'23	1.43289 AU	max. Earth dist.	7372 Mar 19 00:57	27° $\text{H}$ 51'37	1.44681 AU
					7372 Mar 20 09:21	0° $\text{Y}$	
superior conj	7371 Apr 13 02:22	24° $\text{Y}$ 53'41	-2°09'44	superior conj	7372 Mar 23 04:18	4° $\text{Y}$ 27'03	-2°07'37
minimum elong	7371 Apr 13 04:40	25° $\text{Y}$ 03'18	2°09'43	minimum elong	7372 Mar 23 00:07	4° $\text{Y}$ 10'17	2°07'30
	7371 Apr 16 03:00	0° $\text{B}$		evening rise	7372 Apr 06 02:55	27° $\text{Y}$ 20'33	
evening rise	7371 Apr 25 06:55	15° $\text{B}$ 55'12			7372 Apr 07 16:56	0° $\text{B}$	
	7371 May 03 09:24	0° $\text{II}$		asc. node	7372 Apr 19 22:02	19° $\text{B}$ 41'45	
asc. node	7371 May 04 01:00	1° $\text{II}$ 04'33		evening max el	7372 Apr 24 20:38	25° $\text{B}$ 49'06	18°16'44
evening max el	7371 May 12 07:32	12° $\text{II}$ 27'28	18°05'49	retrograde	7372 May 01 06:07	29° $\text{B}$ 13'56	
retrograde	7371 May 18 19:39	15° $\text{II}$ 48'49		evening set	7372 May 04 05:37	28° $\text{B}$ 26'09	
evening set	7371 May 21 12:15	15° $\text{II}$ 13'50		inferior conj	7372 May 10 04:29	23° $\text{B}$ 03'25	3°16'41
inferior conj	7371 May 27 22:46	10° $\text{II}$ 09'42	2°48'22	minimum elong	7372 May 10 06:00	22° $\text{B}$ 59'08	3°16'27
minimum elong	7371 May 28 01:33	10° $\text{II}$ 02'41	2°47'42	min. Earth dist.	7372 May 12 16:09	20° $\text{B}$ 15'29	0.63751 AU
min. Earth dist.	7371 May 31 00:08	7° $\text{II}$ 06'21	0.61664 AU	morning rise	7372 May 16 05:14	16° $\text{B}$ 51'18	
morning rise	7371 Jun 03 12:53	4° $\text{II}$ 08'23		direct	7372 May 22 23:41	14° $\text{B}$ 10'45	
desc. node	7371 Jun 08 05:10	2° $\text{II}$ 00'08		desc. node	7372 May 25 02:11	14° $\text{B}$ 24'43	
direct	7371 Jun 10 06:28	1° $\text{II}$ 47'17		morning max el	7372 Jun 05 19:42	22° $\text{B}$ 11'33	27°40'19
morning max el	7371 Jun 24 11:02	9° $\text{II}$ 47'30	27°54'48		7372 Jun 12 15:59	0° $\text{II}$	
	7371 Jul 10 03:11	0° $\text{E}$			7372 Jul 02 08:12	0° $\text{E}$	
	7371 Jul 26 23:37	0° $\text{O}$		morning set	7372 Jul 10 15:48	15° $\text{E}$ 37'58	
morning set	7371 Jul 27 20:35	1° $\text{O}$ 46'48		max. Earth dist.	7372 Jul 15 15:52	25° $\text{E}$ 52'44	1.32832 AU
asc. node	7371 Jul 31 00:19	8° $\text{O}$ 22'22		asc. node	7372 Jul 16 21:17	28° $\text{E}$ 28'20	
max. Earth dist.	7371 Aug 02 13:42	13° $\text{O}$ 52'38	1.32053 AU		7372 Jul 17 14:29	0° $\text{O}$	
superior conj	7371 Aug 04 06:53	17° $\text{O}$ 37'30	0°42'41	superior conj	7372 Jul 18 13:29	2° $\text{O}$ 03'14	0°17'04
minimum elong	7371 Aug 04 05:05	17° $\text{O}$ 27'43	0°42'17	minimum elong	7372 Jul 18 12:39	1° $\text{O}$ 58'48	0°16'50
	7371 Aug 09 22:25	0° $\text{np}$		evening rise	7372 Jul 25 13:56	17° $\text{O}$ 11'46	
evening rise	7371 Aug 11 02:18	2° $\text{np}$ 30'07			7372 Jul 31 21:12	0° $\text{np}$	
	7371 Aug 25 20:24	0° $\text{u}$		evening max el	7372 Aug 17 03:24	23° $\text{np}$ 48'28	23°00'19
desc. node	7371 Sep 04 04:17	12° $\text{u}$ 03'29		desc. node	7372 Aug 21 01:20	27° $\text{np}$ 06'07	
evening max el	7371 Sep 05 15:47	13° $\text{u}$ 32'22	24°38'36		7372 Aug 26 22:56	0° $\text{u}$	
retrograde	7371 Sep 19 11:37	20° $\text{u}$ 29'42		retrograde	7372 Aug 30 11:19	0° $\text{u}$ 28'21	
evening set	7371 Sep 24 18:19	19° $\text{u}$ 27'31		evening set	7372 Sep 03 05:46	29° $\text{np}$ 57'15	
min. Earth dist.	7371 Sep 30 02:53	16° $\text{u}$ 40'02	0.56771 AU		7372 Sep 03 01:36	30° $\text{R}$ $\text{np}$	
inferior conj	7371 Oct 02 19:23	14° $\text{u}$ 56'47	-5°28'39	min. Earth dist.	7372 Sep 10 11:55	26° $\text{np}$ 40'03	0.55351 AU
minimum elong	7371 Oct 02 21:08	14° $\text{u}$ 53'57	5°28'33	inferior conj	7372 Sep 12 01:17	25° $\text{np}$ 46'07	-5°15'59
morning rise	7371 Oct 11 02:10	10° $\text{u}$ 51'58		minimum elong	7372 Sep 11 19:50	25° $\text{np}$ 54'01	5°15'19
direct	7371 Oct 13 16:30	10° $\text{u}$ 33'22		morning rise	7372 Sep 20 12:04	21° $\text{np}$ 56'20	
morning max el	7371 Oct 23 03:36	15° $\text{u}$ 01'33	19°26'38	direct	7372 Sep 23 12:52	21° $\text{np}$ 34'42	
asc. node	7371 Oct 26 23:44	19° $\text{u}$ 21'29		morning max el	7372 Oct 04 13:09	26° $\text{np}$ 43'08	20°42'52
	7371 Nov 02 18:33	0° $\text{ml}$			7372 Oct 07 15:28	0° $\text{u}$	
morning set	7371 Nov 09 09:30	12° $\text{ml}$ 43'56		asc. node	7372 Oct 12 20:44	7° $\text{u}$ 12'47	
superior conj	7371 Nov 17 10:01	28° $\text{ml}$ 45'28	1°28'38	morning set	7372 Oct 23 16:43	27° $\text{u}$ 25'05	
minimum elong	7371 Nov 17 12:39	28° $\text{ml}$ 58'21	1°28'28		7372 Oct 24 22:41	0° $\text{ml}$	
	7371 Nov 18 01:17	0° $\text{x}$		superior conj	7372 Oct 31 03:37	12° $\text{ml}$ 51'32	1°39'02
max. Earth dist.	7371 Nov 23 19:09	10° $\text{x}$ 52'24	1.37981 AU	minimum elong	7372 Oct 31 04:54	12° $\text{ml}$ 58'04	1°39'02
evening rise	7371 Nov 27 12:46	17° $\text{x}$ 35'08		max. Earth dist.	7372 Nov 05 03:14	22° $\text{ml}$ 48'54	1.35964 AU
desc. node	7371 Dec 01 03:24	23° $\text{x}$ 48'37			7372 Nov 08 21:52	0° $\text{x}$	
	7371 Dec 04 21:11	0° $\text{Z}$		evening rise	7372 Nov 09 02:07	0° $\text{x}$ 19'42	
	7371 Dec 25 18:30	0° $\approx$		desc. node	7372 Nov 17 00:25	14° $\text{x}$ 18'10	
evening max el	7372 Jan 02 02:30	8° $\approx$ 11'56	25°06'11		7372 Nov 27 00:55	0° $\text{Z}$	
retrograde	7372 Jan 14 00:20	15° $\approx$ 05'45					

evening max el	7372 Dec 14 15:25	21° $\text{♄}$ 57'06	26°12'58		7373 Oct 16 11:46	0° $\text{♄}$	
retrograde	7372 Dec 27 08:40	29° $\text{♄}$ 09'06		max. Earth dist.	7373 Oct 18 18:11	4° $\text{♄}$ 42'28	1.34267 AU
evening set	7373 Jan 02 14:44	26° $\text{♄}$ 36'27		evening rise	7373 Oct 23 06:55	13° $\text{♄}$ 46'05	
min. Earth dist.	7373 Jan 06 19:31	22° $\text{♄}$ 11'49	0.66709 AU		7373 Nov 01 04:23	0° $\text{♄}$	
inferior conj	7373 Jan 08 09:53	20° $\text{♄}$ 13'55	-0°08'30	desc. node	7373 Nov 03 21:27	4° $\text{♄}$ 32'22	
minimum elong	7373 Jan 08 10:06	20° $\text{♄}$ 13'14	0°08'20		7373 Nov 21 22:41	0° $\text{♄}$	
transit middle	7373 Jan 08 10:06	20° $\text{♄}$ 13'14	0°08'20	evening max el	7373 Nov 27 04:23	5° $\text{♄}$ 33'52	27°02'17
transit begin	7373 Jan 08 07:39	20° $\text{♄}$ 20'48		retrograde	7373 Dec 10 11:26	12° $\text{♄}$ 53'27	
transit end	7373 Jan 08 12:33	20° $\text{♄}$ 05'41		evening set	7373 Dec 17 04:36	10° $\text{♄}$ 16'08	
asc. node	7373 Jan 08 19:59	19° $\text{♄}$ 42'54		min. Earth dist.	7373 Dec 21 03:24	6° $\text{♄}$ 25'53	0.65429 AU
morning rise	7373 Jan 14 06:09	14° $\text{♄}$ 26'56		inferior conj	7373 Dec 23 05:24	4° $\text{♄}$ 04'01	-1°10'29
direct	7373 Jan 17 08:27	13° $\text{♄}$ 32'33		minimum elong	7373 Dec 23 07:28	3° $\text{♄}$ 58'10	1°09'31
morning max el	7373 Jan 24 00:43	17° $\text{♄}$ 10'28	18°40'46	asc. node	7373 Dec 26 17:04	0° $\text{♄}$ 25'22	
	7373 Feb 02 19:13	0° $\text{♄}$			7373 Dec 27 04:49	30° $\text{♄}$	
desc. node	7373 Feb 12 23:47	15° $\text{♄}$ 49'36		morning rise	7373 Dec 29 11:31	28° $\text{♄}$ 29'00	
morning set	7373 Feb 14 05:13	17° $\text{♄}$ 45'23		direct	7374 Jan 01 04:44	27° $\text{♄}$ 49'08	
	7373 Feb 22 00:19	0° $\text{♄}$			7374 Jan 06 06:26	0° $\text{♄}$	
				morning max el	7374 Jan 07 15:40	1° $\text{♄}$ 15'20	18°06'48
superior conj	7373 Mar 02 11:53	13° $\text{♄}$ 16'58	-1°45'26	morning set	7374 Jan 26 00:48	28° $\text{♄}$ 30'00	
minimum elong	7373 Mar 02 02:33	12° $\text{♄}$ 40'25	1°44'37		7374 Jan 26 22:49	0° $\text{♄}$	
max. Earth dist.	7373 Mar 01 18:43	12° $\text{♄}$ 09'45	1.45389 AU	desc. node	7374 Jan 30 20:46	6° $\text{♄}$ 22'13	
	7373 Mar 13 02:16	0° $\text{♄}$					
evening rise	7373 Mar 17 23:42	7° $\text{♄}$ 48'31		superior conj	7374 Feb 09 18:05	22° $\text{♄}$ 10'36	-1°06'39
greatest brilliancy	7373 Mar 25 16:36	20° $\text{♄}$ 08'13	-0.9m	minimum elong	7374 Feb 09 10:18	21° $\text{♄}$ 39'52	1°05'37
	7373 Apr 01 01:47	0° $\text{♄}$		max. Earth dist.	7374 Feb 12 14:01	26° $\text{♄}$ 37'52	1.45357 AU
asc. node	7373 Apr 06 19:04	7° $\text{♄}$ 40'16			7374 Feb 14 17:38	0° $\text{♄}$	
evening max el	7373 Apr 08 07:52	9° $\text{♄}$ 20'09	18°45'42	evening rise	7374 Feb 25 22:58	17° $\text{♄}$ 27'15	
retrograde	7373 Apr 14 23:39	13° $\text{♄}$ 01'15			7374 Mar 06 01:54	0° $\text{♄}$	
evening set	7373 Apr 18 06:13	11° $\text{♄}$ 59'51		greatest brilliancy	7374 Mar 10 18:46	7° $\text{♄}$ 08'38	-0.7m
inferior conj	7373 Apr 23 21:09	6° $\text{♄}$ 20'17	3°26'03	evening max el	7374 Mar 22 15:09	22° $\text{♄}$ 55'34	19°31'36
minimum elong	7373 Apr 23 21:15	6° $\text{♄}$ 19'59	3°26'00	asc. node	7374 Mar 24 16:08	24° $\text{♄}$ 47'57	
min. Earth dist.	7373 Apr 25 17:28	4° $\text{♄}$ 03'32	0.65513 AU	retrograde	7374 Mar 29 20:53	27° $\text{♄}$ 03'55	
morning rise	7373 Apr 29 11:41	0° $\text{♄}$ 03'43		evening set	7374 Apr 02 11:17	25° $\text{♄}$ 48'08	
	7373 Apr 29 13:25	30° $\text{♄}$		inferior conj	7374 Apr 07 21:26	19° $\text{♄}$ 53'35	3°20'39
direct	7373 May 06 00:34	27° $\text{♄}$ 15'54		minimum elong	7374 Apr 07 20:21	19° $\text{♄}$ 57'09	3°20'31
desc. node	7373 May 11 23:13	29° $\text{♄}$ 07'43		min. Earth dist.	7374 Apr 09 02:44	18° $\text{♄}$ 17'05	0.66867 AU
	7373 May 13 08:08	0° $\text{♄}$		morning rise	7374 Apr 13 05:05	13° $\text{♄}$ 36'32	
morning max el	7373 May 19 06:09	5° $\text{♄}$ 05'37	26°53'12	direct	7374 Apr 19 07:49	10° $\text{♄}$ 53'21	
	7373 Jun 07 05:58	0° $\text{♄}$		desc. node	7374 Apr 28 20:15	15° $\text{♄}$ 36'25	
morning set	7373 Jun 24 00:46	28° $\text{♄}$ 56'41		morning max el	7374 May 01 15:57	18° $\text{♄}$ 16'25	25°41'48
	7373 Jun 24 13:58	0° $\text{♄}$			7374 May 11 12:48	0° $\text{♄}$	
max. Earth dist.	7373 Jun 28 08:15	7° $\text{♄}$ 24'11	1.34090 AU		7374 May 31 06:34	0° $\text{♄}$	
				morning set	7374 Jun 06 19:25	11° $\text{♄}$ 31'13	
superior conj	7373 Jul 02 14:28	16° $\text{♄}$ 08'13	-0°11'47	max. Earth dist.	7374 Jun 10 13:20	18° $\text{♄}$ 30'24	1.35815 AU
minimum elong	7373 Jul 02 15:06	16° $\text{♄}$ 11'34	0°11'44				
behind sun begin	7373 Jul 02 11:11	15° $\text{♄}$ 51'05		superior conj	7374 Jun 16 07:09	29° $\text{♄}$ 44'55	-0°42'41
behind sun end	7373 Jul 02 19:02	16° $\text{♄}$ 32'03		minimum elong	7374 Jun 16 09:39	29° $\text{♄}$ 57'28	0°42'18
asc. node	7373 Jul 03 18:18	18° $\text{♄}$ 33'59			7374 Jun 16 10:09	0° $\text{♄}$	
	7373 Jul 09 04:05	0° $\text{♄}$		asc. node	7374 Jun 20 15:19	8° $\text{♄}$ 34'56	
evening rise	7373 Jul 10 00:07	1° $\text{♄}$ 45'10		evening rise	7374 Jun 24 06:43	16° $\text{♄}$ 03'39	
	7373 Jul 26 02:54	0° $\text{♄}$			7374 Jul 01 10:22	0° $\text{♄}$	
evening max el	7373 Jul 29 20:44	4° $\text{♄}$ 12'25	21°25'35	evening max el	7374 Jul 12 02:13	15° $\text{♄}$ 11'59	20°05'53
desc. node	7373 Aug 07 22:23	9° $\text{♄}$ 51'31		retrograde	7374 Jul 22 15:09	20° $\text{♄}$ 23'10	
retrograde	7373 Aug 11 01:31	10° $\text{♄}$ 15'09		evening set	7374 Jul 24 12:49	20° $\text{♄}$ 13'45	
evening set	7373 Aug 13 12:42	10° $\text{♄}$ 01'11		desc. node	7374 Jul 25 19:27	19° $\text{♄}$ 57'27	
inferior conj	7373 Aug 22 19:07	6° $\text{♄}$ 02'36	-4°09'02	inferior conj	7374 Aug 02 14:28	16° $\text{♄}$ 14'56	-2°20'50
minimum elong	7373 Aug 22 09:45	6° $\text{♄}$ 15'45	4°06'32	minimum elong	7374 Aug 02 08:00	16° $\text{♄}$ 24'36	2°18'32
min. Earth dist.	7373 Aug 22 21:06	5° $\text{♄}$ 59'49	0.54721 AU	min. Earth dist.	7374 Aug 04 08:17	15° $\text{♄}$ 12'34	0.55052 AU
morning rise	7373 Aug 31 07:42	2° $\text{♄}$ 10'29		morning rise	7374 Aug 11 01:40	12° $\text{♄}$ 00'12	
direct	7373 Sep 03 21:47	1° $\text{♄}$ 42'39		direct	7374 Aug 15 09:20	11° $\text{♄}$ 19'35	
morning max el	7373 Sep 16 10:43	7° $\text{♄}$ 38'35	22°18'07	morning max el	7374 Aug 29 00:37	18° $\text{♄}$ 00'57	24°03'18
asc. node	7373 Sep 29 17:45	25° $\text{♄}$ 47'15			7374 Sep 07 20:49	0° $\text{♄}$	
	7373 Oct 02 01:00	0° $\text{♄}$		asc. node	7374 Sep 16 14:47	14° $\text{♄}$ 53'51	
morning set	7373 Oct 08 03:05	12° $\text{♄}$ 13'36		morning set	7374 Sep 22 14:46	27° $\text{♄}$ 04'05	
					7374 Sep 23 23:40	0° $\text{♄}$	
superior conj	7373 Oct 15 05:33	27° $\text{♄}$ 20'49	1°42'00				
minimum elong	7373 Oct 15 05:28	27° $\text{♄}$ 20'25	1°42'02	superior conj	7374 Sep 29 12:56	12° $\text{♄}$ 04'23	1°38'28

minimum elong	7374 Sep 29 11:45	11° $\Omega$ 57'56	1°38'26	superior conj	7375 Sep 13 23:29	26° $\Pi$ 54'46	1°29'13
max. Earth dist.	7374 Oct 01 17:44	16° $\Omega$ 49'13	1.32984 AU	minimum elong	7375 Sep 13 21:33	26° $\Pi$ 44'05	1°29'01
evening rise	7374 Oct 06 23:22	27° $\Omega$ 44'06		max. Earth dist.	7375 Sep 15 00:16	29° $\Pi$ 11'14	1.32148 AU
	7374 Oct 08 02:30	0° $\Pi$			7375 Sep 15 09:09	0° $\Omega$	
desc. node	7374 Oct 21 18:29	24° $\Pi$ 24'31		evening rise	7375 Sep 21 00:13	12° $\Omega$ 04'19	
	7374 Oct 25 09:58	0° $\mathcal{A}$			7375 Sep 30 06:37	0° $\Pi$	
evening max el	7374 Nov 09 16:28	18° $\mathcal{A}$ 52'12	27°27'02	desc. node	7375 Oct 08 15:32	13° $\Pi$ 44'58	
retrograde	7374 Nov 23 07:55	26° $\mathcal{A}$ 10'42			7375 Oct 21 09:34	0° $\mathcal{A}$	
evening set	7374 Nov 30 08:45	23° $\mathcal{A}$ 36'33		evening max el	7375 Oct 23 01:15	1° $\mathcal{A}$ 37'33	27°21'08
min. Earth dist.	7374 Dec 04 02:44	20° $\mathcal{A}$ 18'37	0.63819 AU	retrograde	7375 Nov 05 20:55	8° $\mathcal{A}$ 50'44	
inferior conj	7374 Dec 06 16:12	17° $\mathcal{A}$ 40'48	-2°17'00	evening set	7375 Nov 12 23:44	6° $\mathcal{A}$ 29'35	
minimum elong	7374 Dec 06 20:25	17° $\mathcal{A}$ 29'58	2°15'14	min. Earth dist.	7375 Nov 16 15:41	3° $\mathcal{A}$ 38'24	0.61931 AU
morning rise	7374 Dec 13 09:46	12° $\mathcal{A}$ 20'43		inferior conj	7375 Nov 19 15:07	0° $\mathcal{A}$ 55'33	-3°24'53
asc. node	7374 Dec 13 14:09	12° $\mathcal{A}$ 16'32		minimum elong	7375 Nov 19 21:20	0° $\mathcal{A}$ 41'21	3°22'43
direct	7374 Dec 15 20:15	11° $\mathcal{A}$ 51'22			7375 Nov 20 15:40	30° $\mathcal{R}$ $\Pi$	
morning max el	7374 Dec 22 08:52	15° $\mathcal{A}$ 15'14	17°49'59	morning rise	7375 Nov 26 20:59	25° $\Pi$ 53'52	
	7375 Jan 01 18:33	0° $\mathcal{B}$		direct	7375 Nov 29 03:33	25° $\Pi$ 31'25	
morning set	7375 Jan 07 23:58	10° $\mathcal{B}$ 35'34		asc. node	7375 Nov 30 11:12	25° $\Pi$ 39'13	
desc. node	7375 Jan 17 17:45	27° $\mathcal{B}$ 02'58		morning max el	7375 Dec 06 01:07	29° $\Pi$ 01'21	17°51'11
	7375 Jan 19 12:44	0° $\approx$			7375 Dec 06 23:40	0° $\mathcal{A}$	
				morning set	7375 Dec 21 20:09	23° $\mathcal{A}$ 40'54	
superior conj	7375 Jan 20 17:20	1° $\approx$ 56'54	-0°21'20		7375 Dec 25 08:36	0° $\mathcal{B}$	
minimum elong	7375 Jan 20 14:57	1° $\approx$ 47'13	0°20'55	superior conj	7376 Jan 01 18:04	12° $\mathcal{B}$ 57'01	0°20'46
max. Earth dist.	7375 Jan 26 08:40	11° $\approx$ 01'29	1.44604 AU	minimum elong	7376 Jan 01 19:56	13° $\mathcal{B}$ 04'59	0°20'35
evening rise	7375 Feb 05 10:32	26° $\approx$ 45'02		desc. node	7376 Jan 04 14:44	17° $\mathcal{B}$ 47'47	
	7375 Feb 07 13:28	0° $\mathcal{H}$		max. Earth dist.	7376 Jan 09 00:15	25° $\mathcal{B}$ 03'53	1.43210 AU
	7375 Feb 28 03:54	0° $\mathcal{Y}$			7376 Jan 12 01:38	0° $\approx$	
evening max el	7375 Mar 05 17:17	6° $\mathcal{Y}$ 33'15	20°32'13	evening rise	7376 Jan 16 01:32	6° $\approx$ 18'49	
asc. node	7375 Mar 11 13:14	10° $\mathcal{Y}$ 50'53			7376 Jan 31 20:51	0° $\mathcal{H}$	
retrograde	7375 Mar 13 19:21	11° $\mathcal{Y}$ 17'12		evening max el	7376 Feb 16 13:56	20° $\mathcal{H}$ 11'45	21°44'16
evening set	7375 Mar 17 18:44	9° $\mathcal{Y}$ 46'28		retrograde	7376 Feb 25 17:01	25° $\mathcal{H}$ 36'18	
inferior conj	7375 Mar 23 02:38	3° $\mathcal{Y}$ 38'54	3°03'25	asc. node	7376 Feb 26 10:19	25° $\mathcal{H}$ 33'37	
minimum elong	7375 Mar 23 00:45	3° $\mathcal{Y}$ 45'21	3°03'04	evening set	7376 Mar 01 02:44	23° $\mathcal{H}$ 50'13	
min. Earth dist.	7375 Mar 23 18:00	2° $\mathcal{Y}$ 46'16	0.67780 AU	inferior conj	7376 Mar 06 10:27	17° $\mathcal{H}$ 32'12	2°36'11
	7375 Mar 25 20:38	30° $\mathcal{R}$ $\mathcal{H}$		minimum elong	7376 Mar 06 08:11	17° $\mathcal{H}$ 40'06	2°35'37
morning rise	7375 Mar 28 06:32	27° $\mathcal{H}$ 23'44		min. Earth dist.	7376 Mar 06 13:04	17° $\mathcal{H}$ 23'06	0.68255 AU
direct	7375 Apr 02 20:23	24° $\mathcal{H}$ 54'38		morning rise	7376 Mar 11 13:27	11° $\mathcal{H}$ 20'23	
	7375 Apr 12 09:11	0° $\mathcal{Y}$		direct	7376 Mar 16 13:08	9° $\mathcal{H}$ 11'21	
morning max el	7375 Apr 14 00:48	1° $\mathcal{Y}$ 36'02	24°16'14	morning max el	7376 Mar 26 10:49	15° $\mathcal{H}$ 02'27	22°46'37
desc. node	7375 Apr 15 17:15	3° $\mathcal{Y}$ 22'15		desc. node	7376 Apr 01 14:14	22° $\mathcal{H}$ 03'13	
	7375 May 05 13:08	0° $\mathcal{B}$			7376 Apr 07 14:43	0° $\mathcal{Y}$	
morning set	7375 May 19 18:37	23° $\mathcal{B}$ 08'01			7376 Apr 27 12:44	0° $\mathcal{B}$	
max. Earth dist.	7375 May 23 10:33	29° $\mathcal{B}$ 36'37	1.37907 AU	morning set	7376 Apr 29 16:43	3° $\mathcal{B}$ 32'38	
	7375 May 23 15:45	0° $\Pi$		max. Earth dist.	7376 May 04 07:09	11° $\mathcal{B}$ 16'20	1.40140 AU
superior conj	7375 May 30 12:16	12° $\Pi$ 45'23	-1°13'44	superior conj	7376 May 12 01:35	24° $\mathcal{B}$ 59'08	-1°42'01
minimum elong	7375 May 30 16:40	13° $\Pi$ 06'30	1°13'08	minimum elong	7376 May 12 07:09	25° $\mathcal{B}$ 24'29	1°41'28
asc. node	7375 Jun 07 12:21	28° $\Pi$ 27'28			7376 May 14 19:03	0° $\Pi$	
evening rise	7375 Jun 08 07:13	0° $\mathcal{B}$ 00'51		evening rise	7376 May 21 22:29	13° $\Pi$ 28'28	
	7375 Jun 08 07:03	0° $\mathcal{B}$		asc. node	7376 May 24 09:24	18° $\Pi$ 07'05	
evening max el	7375 Jun 24 20:31	26° $\mathcal{B}$ 55'56	19°06'03		7376 May 31 01:27	0° $\mathcal{B}$	
	7375 Jun 28 20:45	0° $\Omega$		evening max el	7376 Jun 07 00:43	9° $\mathcal{B}$ 19'27	18°26'57
retrograde	7375 Jul 03 17:12	1° $\Omega$ 18'00		retrograde	7376 Jun 14 14:27	13° $\mathcal{B}$ 05'47	
evening set	7375 Jul 05 15:49	1° $\Omega$ 06'17		evening set	7376 Jun 16 19:27	12° $\mathcal{B}$ 47'28	
	7375 Jul 08 21:21	30° $\mathcal{R}$ $\mathcal{B}$		inferior conj	7376 Jun 24 08:24	8° $\mathcal{B}$ 14'53	1°12'54
desc. node	7375 Jul 12 16:31	27° $\mathcal{B}$ 47'51		minimum elong	7376 Jun 24 10:48	8° $\mathcal{B}$ 10'04	1°11'59
inferior conj	7375 Jul 14 00:44	26° $\mathcal{B}$ 53'34	-0°24'23	min. Earth dist.	7376 Jun 27 17:36	5° $\mathcal{B}$ 33'29	0.58175 AU
minimum elong	7375 Jul 13 23:42	26° $\mathcal{B}$ 55'21	0°24'04	desc. node	7376 Jun 28 13:32	4° $\mathcal{B}$ 56'28	
min. Earth dist.	7375 Jul 16 22:29	24° $\mathcal{B}$ 55'10	0.56289 AU	morning rise	7376 Jul 01 22:50	2° $\mathcal{B}$ 49'35	
morning rise	7375 Jul 22 04:29	22° $\mathcal{B}$ 03'40		direct	7376 Jul 07 22:31	1° $\mathcal{B}$ 16'48	
direct	7375 Jul 27 08:54	21° $\mathcal{B}$ 01'02		morning max el	7376 Jul 22 07:55	8° $\mathcal{B}$ 57'45	27°01'36
morning max el	7375 Aug 10 13:46	28° $\mathcal{B}$ 17'29	25°43'17		7376 Aug 07 07:45	0° $\Omega$	
	7375 Aug 12 06:40	0° $\Omega$		asc. node	7376 Aug 20 08:45	24° $\Omega$ 11'29	
	7375 Sep 01 06:11	0° $\Pi$		morning set	7376 Aug 21 11:28	26° $\Omega$ 31'22	
asc. node	7375 Sep 03 11:46	4° $\Pi$ 24'06			7376 Aug 23 02:36	0° $\Pi$	
morning set	7375 Sep 07 02:06	11° $\Pi$ 51'29					

































































































































superior conj	7376 Aug 28 11:18	11° $\mathbb{M}$ 46'16	1°14'48	superior conj	7377 Aug 12 22:31	26° $\Omega$ 32'12	0°55'40
minimum elong	7376 Aug 28 09:02	11° $\mathbb{M}$ 33'46	1°14'26	minimum elong	7377 Aug 12 20:25	26° $\Omega$ 20'36	0°55'14
max. Earth dist.	7376 Aug 28 10:30	11° $\mathbb{M}$ 41'55	1.31760 AU		7377 Aug 14 12:07	0° $\mathbb{M}$	
evening rise	7376 Sep 04 06:48	26° $\mathbb{M}$ 39'20		evening rise	7377 Aug 19 16:52	11° $\mathbb{M}$ 21'26	
	7376 Sep 05 21:05	0° $\Omega$			7377 Aug 29 02:46	0° $\Omega$	
	7376 Sep 22 20:35	0° $\mathbb{M}$		desc. node	7377 Sep 11 09:39	19° $\Omega$ 54'23	
desc. node	7376 Sep 24 12:36	2° $\mathbb{M}$ 21'03		evening max el	7377 Sep 15 22:28	24° $\Omega$ 46'14	25°30'07
evening max el	7376 Oct 04 03:52	13° $\mathbb{M}$ 37'28	26°41'21		7377 Sep 22 23:29	0° $\mathbb{M}$	
retrograde	7376 Oct 18 01:38	20° $\mathbb{M}$ 45'25		retrograde	7377 Sep 29 20:41	1° $\mathbb{M}$ 49'18	
evening set	7376 Oct 24 21:17	18° $\mathbb{M}$ 48'15		evening set	7377 Oct 05 20:32	0° $\mathbb{M}$ 25'55	
min. Earth dist.	7376 Oct 28 17:40	16° $\mathbb{M}$ 12'28	0.59870 AU		7377 Oct 06 18:11	30° $\mathbb{R}$ $\Omega$	
inferior conj	7376 Oct 31 22:42	13° $\mathbb{M}$ 39'02	-4°27'56	min. Earth dist.	7377 Oct 10 10:27	27° $\Omega$ 48'03	0.57823 AU
minimum elong	7376 Nov 01 05:42	13° $\mathbb{M}$ 25'02	4°26'09	inferior conj	7377 Oct 13 11:35	25° $\Omega$ 41'28	-5°15'09
morning rise	7376 Nov 08 16:22	8° $\mathbb{M}$ 59'08		minimum elong	7377 Oct 13 16:26	25° $\Omega$ 33'02	5°14'30
direct	7376 Nov 10 22:28	8° $\mathbb{M}$ 40'26		morning rise	7377 Oct 21 14:41	21° $\Omega$ 24'39	
asc. node	7376 Nov 16 08:12	10° $\mathbb{M}$ 34'15		direct	7377 Oct 24 00:28	21° $\Omega$ 06'55	
morning max el	7376 Nov 18 13:05	12° $\mathbb{M}$ 25'10	18°11'39	morning max el	7377 Nov 01 17:09	25° $\Omega$ 16'24	18°53'00
	7376 Nov 30 07:17	0° $\mathbb{X}$		asc. node	7377 Nov 03 05:11	26° $\Omega$ 49'32	
morning set	7376 Dec 04 07:19	7° $\mathbb{X}$ 27'52			7377 Nov 05 18:47	0° $\mathbb{M}$	
				morning set	7377 Nov 18 04:47	21° $\mathbb{M}$ 42'49	
superior conj	7376 Dec 13 19:17	25° $\mathbb{X}$ 07'25	0°54'35		7377 Nov 22 09:54	0° $\mathbb{X}$	
minimum elong	7376 Dec 13 22:46	25° $\mathbb{X}$ 23'10	0°54'12				
	7376 Dec 16 12:50	0° $\mathbb{Z}$		superior conj	7377 Nov 26 16:01	8° $\mathbb{X}$ 13'40	1°18'51
desc. node	7376 Dec 21 11:44	8° $\mathbb{Z}$ 33'25		minimum elong	7377 Nov 26 19:15	8° $\mathbb{X}$ 29'04	1°18'35
max. Earth dist.	7376 Dec 21 10:44	8° $\mathbb{Z}$ 29'11	1.41334 AU	max. Earth dist.	7377 Dec 03 16:41	21° $\mathbb{X}$ 10'11	1.39205 AU
evening rise	7376 Dec 26 08:56	16° $\mathbb{Z}$ 38'44		evening rise	7377 Dec 07 14:19	27° $\mathbb{X}$ 57'47	
	7377 Jan 03 20:59	0° $\approx$		desc. node	7377 Dec 08 08:45	29° $\mathbb{X}$ 16'08	
	7377 Jan 25 16:30	0° $\mathbb{H}$			7377 Dec 08 19:08	0° $\mathbb{Z}$	
evening max el	7377 Jan 29 06:05	3° $\mathbb{H}$ 52'13	23°03'04		7377 Dec 28 09:15	0° $\approx$	
retrograde	7377 Feb 08 12:27	9° $\mathbb{H}$ 57'18		evening max el	7378 Jan 11 19:39	17° $\approx$ 36'16	24°22'48
asc. node	7377 Feb 12 07:23	8° $\mathbb{H}$ 45'13		retrograde	7378 Jan 23 04:23	24° $\approx$ 15'51	
evening set	7377 Feb 13 09:43	7° $\mathbb{H}$ 56'06		evening set	7378 Jan 28 14:08	22° $\approx$ 00'36	
inferior conj	7377 Feb 18 18:56	1° $\mathbb{H}$ 30'54	2°00'09	asc. node	7378 Jan 30 04:25	20° $\approx$ 27'53	
minimum elong	7377 Feb 18 16:44	1° $\mathbb{H}$ 38'32	1°59'28	min. Earth dist.	7378 Feb 02 05:50	16° $\approx$ 41'12	0.67977 AU
min. Earth dist.	7377 Feb 18 09:44	2° $\mathbb{H}$ 02'41	0.68313 AU	inferior conj	7378 Feb 03 02:18	15° $\approx$ 32'28	1°16'02
	7377 Feb 19 21:29	30° $\mathbb{R}$ $\approx$		minimum elong	7378 Feb 03 00:39	15° $\approx$ 38'04	1°15'28
morning rise	7377 Feb 23 23:41	25° $\approx$ 23'43		morning rise	7378 Feb 08 11:15	9° $\approx$ 31'22	
direct	7377 Feb 28 09:12	23° $\approx$ 37'12		direct	7378 Feb 12 07:29	8° $\approx$ 06'58	
morning max el	7377 Mar 09 01:29	28° $\approx$ 38'40	21°21'35	morning max el	7378 Feb 19 23:28	12° $\approx$ 26'56	20°07'28
	7377 Mar 10 08:47	0° $\mathbb{H}$			7378 Mar 05 11:50	0° $\mathbb{H}$	
desc. node	7377 Mar 19 11:12	11° $\mathbb{H}$ 24'11		desc. node	7378 Mar 06 08:11	1° $\mathbb{H}$ 14'28	
	7377 Apr 01 06:18	0° $\mathbb{Y}$		morning set	7378 Mar 19 09:49	20° $\mathbb{H}$ 58'57	
morning set	7377 Apr 09 10:59	12° $\mathbb{Y}$ 40'12			7378 Mar 25 04:48	0° $\mathbb{Y}$	
max. Earth dist.	7377 Apr 16 08:46	23° $\mathbb{Y}$ 47'43	1.42242 AU	max. Earth dist.	7378 Mar 29 17:27	7° $\mathbb{Y}$ 10'29	1.43951 AU
	7377 Apr 20 02:18	0° $\mathbb{B}$					
superior conj	7377 Apr 23 18:15	6° $\mathbb{B}$ 14'29	-2°03'06	superior conj	7378 Apr 04 10:30	16° $\mathbb{Y}$ 25'00	-2°11'10
minimum elong	7377 Apr 23 22:47	6° $\mathbb{B}$ 34'03	2°02'53	minimum elong	7378 Apr 04 10:20	16° $\mathbb{Y}$ 24'18	2°11'12
evening rise	7377 May 05 00:30	26° $\mathbb{B}$ 16'05			7378 Apr 12 13:36	0° $\mathbb{B}$	
	7377 May 07 01:55	0° $\mathbb{I}$		evening rise	7378 Apr 17 08:48	8° $\mathbb{B}$ 14'11	
asc. node	7377 May 11 06:26	7° $\mathbb{I}$ 27'50		asc. node	7378 Apr 28 03:29	26° $\mathbb{B}$ 23'39	
evening max el	7377 May 21 11:04	22° $\mathbb{I}$ 12'29	18°07'56		7378 Apr 30 13:26	0° $\mathbb{I}$	
retrograde	7377 May 28 05:28	25° $\mathbb{I}$ 38'47		evening max el	7378 May 05 00:07	5° $\mathbb{I}$ 26'40	18°08'10
evening set	7377 May 30 17:48	25° $\mathbb{I}$ 10'41		retrograde	7378 May 11 10:03	8° $\mathbb{I}$ 47'52	
inferior conj	7377 Jun 06 12:53	20° $\mathbb{I}$ 17'52	2°21'28	evening set	7378 May 14 05:31	8° $\mathbb{I}$ 07'45	
minimum elong	7377 Jun 06 16:02	20° $\mathbb{I}$ 10'29	2°20'32	inferior conj	7378 May 20 10:38	2° $\mathbb{I}$ 55'47	3°02'58
min. Earth dist.	7377 Jun 09 19:50	17° $\mathbb{I}$ 15'13	0.60377 AU	minimum elong	7378 May 20 12:56	2° $\mathbb{I}$ 49'41	3°02'30
morning rise	7377 Jun 13 11:39	14° $\mathbb{I}$ 26'14			7378 May 23 05:15	30° $\mathbb{R}$ $\mathbb{B}$	
desc. node	7377 Jun 15 10:35	13° $\mathbb{I}$ 22'45		min. Earth dist.	7378 May 23 06:43	29° $\mathbb{B}$ 56'16	0.62584 AU
direct	7377 Jun 20 00:52	12° $\mathbb{I}$ 21'09		morning rise	7378 May 26 18:42	26° $\mathbb{B}$ 48'43	
morning max el	7377 Jul 04 08:50	20° $\mathbb{I}$ 17'42	27°46'18	desc. node	7378 Jun 02 07:36	24° $\mathbb{B}$ 17'47	
	7377 Jul 12 16:46	0° $\mathbb{E}$		direct	7378 Jun 02 13:37	24° $\mathbb{B}$ 17'35	
	7377 Jul 31 05:15	0° $\Omega$			7378 Jun 14 03:52	0° $\mathbb{I}$	
morning set	7377 Aug 05 17:02	10° $\Omega$ 57'21		morning max el	7378 Jun 16 15:16	2° $\mathbb{I}$ 20'06	27°52'53
asc. node	7377 Aug 07 05:44	14° $\Omega$ 09'40			7378 Jul 07 01:21	0° $\mathbb{E}$	
max. Earth dist.	7377 Aug 11 20:33	24° $\Omega$ 09'09	1.31815 AU	morning set	7378 Jul 20 16:46	25° $\mathbb{E}$ 03'26	
					7378 Jul 23 02:29	0° $\Omega$	
				asc. node	7378 Jul 25 02:43	4° $\Omega$ 14'11	

max. Earth dist.	7378 Jul 26 02:29	6°Ω21'14	1.32327 AU	asc. node	7379 Jul 11 23:45	24°Ω20'44	
superior conj	7378 Jul 28 07:23	11°Ω07'16	0°32'16	superior conj	7379 Jul 12 11:56	25°Ω25'23	0°05'12
minimum elong	7378 Jul 28 05:57	10°Ω59'26	0°31'54	minimum elong	7379 Jul 12 11:41	25°Ω24'00	0°05'03
evening rise	7378 Aug 04 04:28	26°Ω04'57		behind sun begin	7379 Jul 12 06:26	24°Ω56'12	
	7378 Aug 06 00:57	0°Π		behind sun end	7379 Jul 12 16:55	25°Ω51'51	
	7378 Aug 23 17:07	0°Ω			7379 Jul 14 15:21	0°Ω	
evening max el	7378 Aug 28 10:59	5°Ω14'33	23°57'19	evening rise	7379 Jul 19 15:45	10°Ω44'04	
desc. node	7378 Aug 29 06:42	6°Ω00'50			7379 Jul 29 13:38	0°Π	
retrograde	7378 Sep 11 03:46	12°Ω06'41		evening max el	7379 Aug 10 00:13	15°Π30'44	22°18'45
evening set	7378 Sep 15 19:12	11°Ω19'18		desc. node	7379 Aug 16 03:45	20°Π09'32	
min. Earth dist.	7378 Sep 21 21:34	8°Ω20'40	0.56084 AU	retrograde	7379 Aug 22 22:23	21°Π56'30	
inferior conj	7378 Sep 24 04:15	6°Ω57'18	-5°29'37	evening set	7379 Aug 26 01:55	21°Π34'40	
minimum elong	7378 Sep 24 03:00	6°Ω59'12	5°29'34	min. Earth dist.	7379 Sep 03 06:27	18°Π00'38	0.54975 AU
morning rise	7378 Oct 02 13:02	3°Ω00'04		inferior conj	7379 Sep 04 03:47	17°Π30'35	-4°54'05
direct	7378 Oct 05 07:14	2°Ω40'35		minimum elong	7379 Sep 03 19:51	17°Π41'45	4°52'37
morning max el	7378 Oct 15 10:02	7°Ω25'19	19°56'27	morning rise	7379 Sep 12 15:30	13°Π42'06	
asc. node	7378 Oct 21 02:11	14°Ω10'05		direct	7379 Sep 15 21:51	13°Π18'08	
	7378 Oct 30 05:53	0°Π		morning max el	7379 Sep 27 14:08	18°Π46'35	21°21'25
morning set	7378 Nov 02 09:11	6°Π16'24			7379 Oct 06 12:10	0°Ω	
				asc. node	7379 Oct 07 23:12	2°Ω21'35	
superior conj	7378 Nov 10 03:13	22°Π01'09	1°34'01	morning set	7379 Oct 17 18:02	21°Ω01'53	
minimum elong	7378 Nov 10 05:18	22°Π11'33	1°33'56		7379 Oct 22 00:30	0°Π	
	7378 Nov 14 04:59	0°♄					
max. Earth dist.	7378 Nov 15 22:19	3°♄16'28	1.37087 AU	superior conj	7379 Oct 25 00:47	6°Π18'31	1°41'08
evening rise	7378 Nov 19 16:59	10°♄13'47		minimum elong	7379 Oct 25 01:28	6°Π22'06	1°41'10
desc. node	7378 Nov 25 05:46	19°♄51'45		max. Earth dist.	7379 Oct 29 09:14	15°Π10'45	1.35198 AU
	7378 Dec 01 11:41	0°♅		evening rise	7379 Nov 02 13:30	23°Π18'06	
	7378 Dec 23 23:44	0°♁			7379 Nov 06 04:30	0°♄	
evening max el	7378 Dec 25 08:38	1°♁22'43	25°36'29	desc. node	7379 Nov 12 02:48	10°♄15'54	
retrograde	7379 Jan 06 15:43	8°♁26'02			7379 Nov 25 03:47	0°♅	
evening set	7379 Jan 12 14:23	5°♁58'59		evening max el	7379 Dec 07 21:54	15°♅06'32	26°36'38
min. Earth dist.	7379 Jan 16 23:00	1°♁14'03	0.67270 AU	retrograde	7379 Dec 20 21:37	22°♅22'13	
asc. node	7379 Jan 17 01:28	1°♁06'17		evening set	7379 Dec 27 08:39	19°♅47'05	
	7379 Jan 17 22:13	30°♁♄		min. Earth dist.	7379 Dec 31 10:55	15°♅37'04	0.66207 AU
inferior conj	7379 Jan 18 06:41	29°♅32'52	0°24'23	inferior conj	7380 Jan 02 06:07	13°♅28'28	-0°34'05
minimum elong	7379 Jan 18 06:04	29°♅34'51	0°24'13	minimum elong	7380 Jan 02 07:04	13°♅25'39	0°33'35
morning rise	7379 Jan 23 22:10	23°♅39'51		asc. node	7380 Jan 03 22:31	11°♅30'58	
direct	7379 Jan 27 06:34	22°♅35'21		morning rise	7380 Jan 08 06:19	7°♅46'02	
morning max el	7379 Feb 03 05:16	26°♅25'13	19°07'49	direct	7380 Jan 11 04:36	6°♅58'08	
	7379 Feb 06 09:59	0°♁		morning max el	7380 Jan 17 17:34	10°♅29'37	18°24'16
greatest brilliancy	7379 Feb 16 19:18	14°♁41'03	-0.7m		7380 Jan 31 15:33	0°♁	
desc. node	7379 Feb 21 05:09	21°♁25'33		morning set	7380 Feb 06 14:18	9°♁28'51	
morning set	7379 Feb 26 11:53	29°♁35'25		desc. node	7380 Feb 08 02:09	11°♁51'52	
	7379 Feb 26 18:14	0°♁			7380 Feb 19 13:17	0°♁	
max. Earth dist.	7379 Mar 12 08:30	21°♁12'47	1.45068 AU				
				superior conj	7380 Feb 22 07:40	4°♁20'17	-1°30'31
superior conj	7379 Mar 15 03:14	25°♁36'03	-2°00'41	minimum elong	7380 Feb 21 22:09	3°♁43'01	1°29'29
minimum elong	7379 Mar 14 20:16	25°♁08'28	2°00'16	max. Earth dist.	7380 Feb 23 03:41	5°♁38'40	1.45472 AU
	7379 Mar 17 21:44	0°♂		evening rise	7380 Mar 09 06:01	29°♁19'27	
evening rise	7379 Mar 29 19:04	19°♂14'39			7380 Mar 09 16:19	0°♂	
	7379 Apr 05 08:14	0°♂		greatest brilliancy	7380 Mar 19 08:03	15°♂09'17	-0.8m
asc. node	7379 Apr 15 00:32	14°♂45'56			7380 Mar 29 17:45	0°♂	
evening max el	7379 Apr 18 12:50	18°♂53'33	18°26'55	asc. node	7380 Mar 31 21:37	2°♂24'28	
retrograde	7379 Apr 24 23:52	22°♂23'28		evening max el	7380 Mar 31 22:40	2°♂27'10	19°03'16
evening set	7379 Apr 28 02:23	21°♂29'58		retrograde	7380 Apr 07 19:19	6°♂18'14	
inferior conj	7379 May 03 21:28	16°♂00'06	3°22'38	evening set	7380 Apr 11 05:12	5°♂10'35	
minimum elong	7379 May 03 22:22	15°♂57'26	3°22'31		7380 Apr 16 06:31	30°♂♂	
min. Earth dist.	7379 May 06 02:45	13°♂23'50	0.64556 AU	inferior conj	7380 Apr 16 17:45	29°♂24'21	3°25'20
morning rise	7379 May 09 17:31	9°♂45'41		minimum elong	7380 Apr 16 17:18	29°♂25'45	3°25'17
direct	7379 May 16 10:28	7°♂00'16		min. Earth dist.	7380 Apr 18 07:30	27°♂24'17	0.66148 AU
desc. node	7379 May 20 04:38	7°♂45'00		morning rise	7380 Apr 22 05:00	23°♂07'28	
morning max el	7379 May 30 00:48	14°♂57'36	27°23'40	direct	7380 Apr 28 14:02	20°♂20'30	
	7379 Jun 11 07:06	0°♂		desc. node	7380 May 06 01:39	23°♂16'50	
	7379 Jun 29 18:13	0°♂		morning max el	7380 May 11 11:06	27°♂59'52	26°25'13
morning set	7379 Jul 04 08:04	8°♂42'00			7380 May 13 08:45	0°♂	
max. Earth dist.	7379 Jul 09 00:41	18°♂08'48	1.33312 AU		7380 Jun 04 00:42	0°♂	

morning set	7380 Jun 16 11:30	21° $\Pi$ 43'23		morning max el	7381 Apr 23 20:39	11° $\Upsilon$ 16'06	25°06'43
max. Earth dist.	7380 Jun 20 12:29	29° $\Pi$ 29'13	1.34777 AU		7381 May 08 19:23	0° $\mathcal{B}$	
	7380 Jun 20 18:44	0° $\mathfrak{E}$			7381 May 27 17:16	0° $\Pi$	
superior conj	7380 Jun 25 09:48	9° $\mathfrak{E}$ 19'36	-0°24'43	morning set	7381 May 29 22:40	3° $\Pi$ 56'01	
minimum elong	7380 Jun 25 11:12	9° $\mathfrak{E}$ 26'46	0°24'31	max. Earth dist.	7381 Jun 02 14:01	10° $\Pi$ 34'06	1.36669 AU
asc. node	7380 Jun 27 20:47	14° $\mathfrak{E}$ 25'05		superior conj	7381 Jun 08 22:04	22° $\Pi$ 42'31	-0°55'58
evening rise	7380 Jul 03 00:44	25° $\mathfrak{E}$ 12'25		minimum elong	7381 Jun 09 01:24	22° $\Pi$ 58'56	0°55'27
	7380 Jul 05 08:49	0° $\Omega$			7381 Jun 12 13:44	0° $\mathfrak{E}$	
evening max el	7380 Jul 21 22:17	26° $\Omega$ 07'37	20°49'19	asc. node	7381 Jun 14 17:50	4° $\mathfrak{E}$ 23'32	
	7380 Jul 26 22:04	0° $\mathfrak{M}$		evening rise	7381 Jun 17 05:09	9° $\mathfrak{E}$ 23'42	
retrograde	7380 Aug 02 10:40	1° $\mathfrak{M}$ 49'09			7381 Jun 28 11:26	0° $\Omega$	
desc. node	7380 Aug 02 00:50	1° $\mathfrak{M}$ 48'44		evening max el	7381 Jul 04 09:21	7° $\Omega$ 26'17	19°37'50
evening set	7380 Aug 04 14:06	1° $\mathfrak{M}$ 38'07		retrograde	7381 Jul 14 04:45	12° $\Omega$ 16'03	
	7380 Aug 09 12:20	30° $\mathfrak{R}$ $\Omega$		evening set	7381 Jul 16 01:28	12° $\Omega$ 06'21	
inferior conj	7380 Aug 13 20:23	27° $\Omega$ 41'06	-3°26'24	desc. node	7381 Jul 19 21:54	10° $\Omega$ 51'20	
minimum elong	7380 Aug 13 11:32	27° $\Omega$ 53'41	3°23'37	inferior conj	7381 Jul 24 20:54	8° $\Omega$ 02'30	-1°30'31
min. Earth dist.	7380 Aug 14 15:56	27° $\Omega$ 13'18	0.54747 AU	minimum elong	7381 Jul 24 16:46	8° $\Omega$ 09'01	1°29'00
morning rise	7380 Aug 22 09:02	23° $\Omega$ 42'09		min. Earth dist.	7381 Jul 27 04:18	6° $\Omega$ 35'33	0.55477 AU
direct	7380 Aug 26 06:12	23° $\Omega$ 09'53		morning rise	7381 Aug 02 05:44	3° $\Omega$ 33'28	
morning max el	7380 Sep 08 07:36	29° $\Omega$ 25'09	23°02'29	direct	7381 Aug 06 21:42	2° $\Omega$ 45'00	
	7380 Sep 08 22:13	0° $\mathfrak{M}$		morning max el	7381 Aug 20 20:37	9° $\Omega$ 42'41	24°47'27
asc. node	7380 Sep 23 20:13	21° $\mathfrak{M}$ 11'02			7381 Sep 05 00:16	0° $\mathfrak{M}$	
	7380 Sep 28 09:19	0° $\underline{\mathfrak{A}}$		asc. node	7381 Sep 10 17:14	10° $\mathfrak{M}$ 28'56	
morning set	7380 Oct 01 05:13	5° $\underline{\mathfrak{A}}$ 52'19		morning set	7381 Sep 15 16:58	20° $\mathfrak{M}$ 42'34	
					7381 Sep 19 23:52	0° $\underline{\mathfrak{A}}$	
superior conj	7380 Oct 08 05:22	20° $\underline{\mathfrak{A}}$ 54'57	1°41'14	superior conj	7381 Sep 22 14:23	5° $\underline{\mathfrak{A}}$ 42'38	1°35'12
minimum elong	7380 Oct 08 04:46	20° $\underline{\mathfrak{A}}$ 51'48	1°41'15	minimum elong	7381 Sep 22 12:49	5° $\underline{\mathfrak{A}}$ 34'08	1°35'06
max. Earth dist.	7380 Oct 11 04:12	27° $\underline{\mathfrak{A}}$ 10'26	1.33671 AU	max. Earth dist.	7381 Sep 24 06:59	9° $\underline{\mathfrak{A}}$ 23'54	1.32575 AU
	7380 Oct 12 12:49	0° $\mathfrak{M}$		evening rise	7381 Sep 29 20:05	21° $\underline{\mathfrak{A}}$ 07'36	
evening rise	7380 Oct 15 23:43	6° $\mathfrak{M}$ 59'07			7381 Oct 04 07:33	0° $\mathfrak{M}$	
desc. node	7380 Oct 28 23:51	0° $\mathfrak{X}$ 21'53		desc. node	7381 Oct 15 20:53	20° $\mathfrak{M}$ 01'58	
	7380 Oct 28 18:27	0° $\mathfrak{X}$			7381 Oct 22 18:08	0° $\mathfrak{X}$	
evening max el	7380 Nov 19 10:41	28° $\mathfrak{X}$ 36'47	27°16'08	evening max el	7381 Nov 01 21:25	11° $\mathfrak{X}$ 41'40	27°28'21
	7380 Nov 20 22:55	0° $\mathfrak{Z}$		retrograde	7381 Nov 15 14:59	18° $\mathfrak{X}$ 58'44	
retrograde	7380 Dec 02 21:32	5° $\mathfrak{Z}$ 56'05		evening set	7381 Nov 22 17:40	16° $\mathfrak{X}$ 28'26	
evening set	7380 Dec 09 18:41	3° $\mathfrak{Z}$ 18'56		min. Earth dist.	7381 Nov 26 10:08	13° $\mathfrak{X}$ 23'08	0.63049 AU
	7380 Dec 13 08:51	30° $\mathfrak{R}$ $\mathfrak{X}$		inferior conj	7381 Nov 29 04:19	10° $\mathfrak{X}$ 41'19	-2°45'55
min. Earth dist.	7380 Dec 13 15:15	29° $\mathfrak{X}$ 43'04	0.64789 AU	minimum elong	7381 Nov 29 09:27	10° $\mathfrak{X}$ 28'45	2°43'56
inferior conj	7380 Dec 15 22:14	27° $\mathfrak{X}$ 13'24	-1°38'15	morning rise	7381 Dec 06 03:08	5° $\mathfrak{X}$ 29'01	
minimum elong	7380 Dec 16 01:11	27° $\mathfrak{X}$ 05'20	1°36'57	asc. node	7381 Dec 07 16:38	5° $\mathfrak{X}$ 06'03	
asc. node	7380 Dec 20 19:35	22° $\mathfrak{X}$ 37'42		direct	7381 Dec 08 11:31	5° $\mathfrak{X}$ 03'06	
morning rise	7380 Dec 22 09:04	21° $\mathfrak{X}$ 44'28		morning max el	7381 Dec 15 03:05	8° $\mathfrak{X}$ 28'24	17°48'15
direct	7380 Dec 24 23:13	21° $\mathfrak{X}$ 09'27			7381 Dec 29 08:44	0° $\mathfrak{Z}$	
morning max el	7380 Dec 31 09:51	24° $\mathfrak{X}$ 33'10	17°57'33	morning set	7381 Dec 31 07:03	3° $\mathfrak{Z}$ 22'39	
	7381 Jan 04 21:40	0° $\mathfrak{Z}$		desc. node	7382 Jan 11 20:06	23° $\mathfrak{Z}$ 11'07	
morning set	7381 Jan 17 22:13	20° $\mathfrak{Z}$ 49'52					
	7381 Jan 23 10:57	0° $\approx$		superior conj	7382 Jan 12 04:57	23° $\mathfrak{Z}$ 47'56	-0°02'41
desc. node	7381 Jan 24 23:08	2° $\approx$ 28'21		minimum elong	7382 Jan 12 04:40	23° $\mathfrak{Z}$ 46'48	0°02'33
superior conj	7381 Jan 31 19:13	13° $\approx$ 31'03	-0°47'33	behind sun begin	7382 Jan 11 19:28	23° $\mathfrak{Z}$ 08'30	
minimum elong	7381 Jan 31 13:37	13° $\approx$ 08'42	0°46'43	behind sun end	7382 Jan 12 13:53	24° $\mathfrak{Z}$ 25'02	
max. Earth dist.	7381 Feb 04 23:25	20° $\approx$ 08'12	1.45121 AU		7382 Jan 15 23:28	0° $\approx$	
	7381 Feb 11 06:49	0° $\mathfrak{H}$		max. Earth dist.	7382 Jan 18 16:39	4° $\approx$ 23'12	1.44073 AU
evening rise	7381 Feb 16 22:40	8° $\mathfrak{H}$ 45'00		evening rise	7382 Jan 27 09:36	18° $\approx$ 04'02	
	7381 Mar 02 23:01	0° $\Upsilon$			7382 Feb 04 06:03	0° $\mathfrak{H}$	
greatest brilliancy	7381 Mar 03 08:15	0° $\Upsilon$ 33'57	-0.6m	evening max el	7382 Feb 26 03:22	29° $\mathfrak{H}$ 40'32	21°01'47
evening max el	7381 Mar 15 03:47	16° $\Upsilon$ 03'26	19°55'44		7382 Feb 26 11:06	0° $\Upsilon$	
asc. node	7381 Mar 18 18:41	19° $\Upsilon$ 06'33		asc. node	7382 Mar 05 15:46	4° $\Upsilon$ 36'51	
retrograde	7381 Mar 22 17:27	20° $\Upsilon$ 26'15		retrograde	7382 Mar 06 15:51	4° $\Upsilon$ 42'06	
evening set	7381 Mar 26 11:33	19° $\Upsilon$ 04'01		evening set	7382 Mar 10 19:24	3° $\Upsilon$ 04'55	
inferior conj	7381 Mar 31 20:25	13° $\Upsilon$ 03'22	3°14'41		7382 Mar 13 18:46	30° $\mathfrak{R}$ $\mathfrak{H}$	
minimum elong	7381 Mar 31 18:57	13° $\Upsilon$ 08'19	3°14'28	inferior conj	7382 Mar 16 02:57	26° $\mathfrak{H}$ 52'22	2°53'02
min. Earth dist.	7381 Apr 01 19:33	11° $\Upsilon$ 45'39	0.67302 AU	minimum elong	7382 Mar 16 00:51	26° $\mathfrak{H}$ 59'39	2°52'35
morning rise	7381 Apr 06 02:06	6° $\Upsilon$ 46'55		min. Earth dist.	7382 Mar 16 12:46	26° $\mathfrak{H}$ 18'25	0.68023 AU
direct	7381 Apr 11 23:28	4° $\Upsilon$ 09'05		morning rise	7382 Mar 21 06:06	20° $\mathfrak{H}$ 38'14	
desc. node	7381 Apr 22 22:40	10° $\Upsilon$ 21'38		direct	7382 Mar 26 13:53	18° $\mathfrak{H}$ 17'13	

morning max el	7382 Apr 06 05:40	24° $\Upsilon$ 38'37	23°38'08	morning max el	7383 Mar 19 17:04	8° $\Upsilon$ 08'23	22°09'23
desc. node	7382 Apr 09 19:38	28° $\Upsilon$ 32'57		desc. node	7383 Mar 27 16:35	17° $\Upsilon$ 32'36	
	7382 Apr 11 01:06	0° $\Upsilon$			7383 Apr 05 16:11	0° $\Upsilon$	
	7382 May 02 06:25	0° $\Upsilon$		morning set	7383 Apr 21 21:54	24° $\Upsilon$ 54'34	
morning set	7382 May 11 11:50	15° $\Upsilon$ 03'53			7383 Apr 25 00:39	0° $\Upsilon$	
max. Earth dist.	7382 May 15 09:43	21° $\Upsilon$ 49'29	1.38845 AU	max. Earth dist.	7383 Apr 27 07:20	3° $\Upsilon$ 47'40	1.41065 AU
	7382 May 19 23:02	0° $\Pi$					
superior conj	7382 May 22 20:57	5° $\Pi$ 24'04	-1°26'18	superior conj	7383 May 05 02:01	17° $\Upsilon$ 14'11	-1°52'09
minimum elong	7382 May 23 02:00	5° $\Pi$ 47'48	1°25'40	minimum elong	7383 May 05 07:31	17° $\Upsilon$ 38'40	1°51'44
evening rise	7382 Jun 01 02:07	23° $\Pi$ 09'10			7383 May 12 02:25	0° $\Pi$	
asc. node	7382 Jun 01 14:51	24° $\Pi$ 11'07		evening rise	7383 May 15 12:11	6° $\Pi$ 20'28	
	7382 Jun 04 15:28	0° $\Theta$		asc. node	7383 May 19 11:53	13° $\Pi$ 43'15	
evening max el	7382 Jun 17 08:17	19° $\Theta$ 28'11	18°46'58		7383 May 29 17:39	0° $\Theta$	
retrograde	7382 Jun 25 14:37	23° $\Theta$ 33'12		evening max el	7383 May 31 15:37	2° $\Theta$ 05'41	18°16'32
evening set	7382 Jun 27 15:29	23° $\Theta$ 19'15		retrograde	7383 Jun 07 19:32	5° $\Theta$ 41'08	
inferior conj	7382 Jul 05 15:58	18° $\Theta$ 58'46	0°20'06	evening set	7383 Jun 10 03:46	5° $\Theta$ 18'54	
minimum elong	7382 Jul 05 16:45	18° $\Theta$ 57'20	0°19'43	inferior conj	7383 Jun 17 08:44	0° $\Theta$ 37'52	1°45'31
desc. node	7382 Jul 06 18:57	18° $\Theta$ 09'12		minimum elong	7383 Jun 17 11:44	0° $\Theta$ 31'26	1°44'29
min. Earth dist.	7382 Jul 08 20:41	16° $\Theta$ 39'32	0.57028 AU		7383 Jun 18 02:20	30° $\Upsilon$ $\Pi$	
morning rise	7382 Jul 13 14:33	13° $\Theta$ 52'44		min. Earth dist.	7383 Jun 20 18:31	27° $\Pi$ 44'24	0.59096 AU
direct	7382 Jul 19 03:36	12° $\Theta$ 37'48		desc. node	7383 Jun 23 15:59	25° $\Pi$ 37'16	
morning max el	7382 Aug 02 11:31	20° $\Theta$ 06'49	26°19'58	morning rise	7383 Jun 24 16:36	25° $\Pi$ 00'18	
	7382 Aug 10 22:54	0° $\Omega$		direct	7383 Jun 30 23:13	23° $\Pi$ 13'14	
asc. node	7382 Aug 28 14:14	0° $\Pi$ 07'12			7383 Jul 14 06:24	0° $\Theta$	
	7382 Aug 28 12:49	0° $\Pi$		morning max el	7383 Jul 15 08:13	1° $\Theta$ 01'43	27°25'04
morning set	7382 Aug 31 03:39	5° $\Pi$ 27'25			7383 Aug 05 03:03	0° $\Omega$	
				morning set	7383 Aug 15 11:36	20° $\Omega$ 01'56	
superior conj	7382 Sep 07 01:42	20° $\Pi$ 34'33	1°23'42	asc. node	7383 Aug 15 11:12	19° $\Omega$ 59'47	
minimum elong	7382 Sep 06 23:34	20° $\Pi$ 22'47	1°23'26		7383 Aug 20 02:42	0° $\Pi$	
max. Earth dist.	7382 Sep 07 15:19	21° $\Pi$ 49'50	1.31927 AU	max. Earth dist.	7383 Aug 22 01:50	4° $\Pi$ 20'09	1.31730 AU
	7382 Sep 11 08:47	0° $\Omega$					
evening rise	7382 Sep 13 23:39	5° $\Omega$ 35'07		superior conj	7383 Aug 22 13:28	5° $\Pi$ 24'34	1°07'15
	7382 Sep 26 22:02	0° $\Pi$		minimum elong	7383 Aug 22 11:13	5° $\Pi$ 12'06	1°06'50
desc. node	7382 Oct 02 17:57	9° $\Pi$ 05'39		evening rise	7383 Aug 29 07:59	20° $\Pi$ 14'17	
evening max el	7382 Oct 15 03:51	24° $\Pi$ 09'11	27°08'21		7383 Sep 03 01:50	0° $\Omega$	
	7382 Oct 23 08:12	0° $\Upsilon$		desc. node	7383 Sep 19 15:01	27° $\Omega$ 17'52	
retrograde	7382 Oct 29 01:03	1° $\Upsilon$ 20'46			7383 Sep 21 18:32	0° $\Pi$	
	7382 Nov 03 12:38	30° $\Upsilon$ $\Pi$		evening max el	7383 Sep 27 03:24	5° $\Pi$ 48'32	26°14'37
evening set	7382 Nov 05 01:54	29° $\Pi$ 08'29		retrograde	7383 Oct 11 01:48	12° $\Pi$ 54'01	
min. Earth dist.	7382 Nov 08 18:34	26° $\Pi$ 25'26	0.61062 AU	evening set	7383 Oct 17 14:32	11° $\Pi$ 10'43	
inferior conj	7382 Nov 11 21:10	23° $\Pi$ 44'25	-3°52'47	min. Earth dist.	7383 Oct 21 16:36	8° $\Pi$ 36'07	0.58981 AU
minimum elong	7382 Nov 12 03:57	23° $\Pi$ 29'44	3°50'40	inferior conj	7383 Oct 24 21:14	6° $\Pi$ 12'14	-4°50'50
morning rise	7382 Nov 19 08:15	18° $\Pi$ 51'43		minimum elong	7383 Oct 25 03:46	5° $\Pi$ 59'53	4°49'28
direct	7382 Nov 21 13:57	18° $\Pi$ 31'22		morning rise	7383 Nov 01 19:15	1° $\Pi$ 41'47	
asc. node	7382 Nov 24 13:39	19° $\Pi$ 09'10		direct	7383 Nov 04 02:21	1° $\Pi$ 23'48	
morning max el	7382 Nov 28 17:59	22° $\Pi$ 06'53	17°57'24	asc. node	7383 Nov 11 10:38	4° $\Pi$ 40'14	
	7382 Dec 04 19:54	0° $\Upsilon$		morning max el	7383 Nov 12 02:59	5° $\Pi$ 18'08	18°26'31
morning set	7382 Dec 14 10:19	16° $\Upsilon$ 48'04			7383 Nov 27 16:12	0° $\Upsilon$	
	7382 Dec 21 16:18	0° $\Theta$		morning set	7383 Nov 28 02:24	0° $\Upsilon$ 48'58	
superior conj	7382 Dec 24 16:36	5° $\Theta$ 19'51	0°36'16	superior conj	7383 Dec 07 02:47	17° $\Upsilon$ 55'58	1°06'03
minimum elong	7382 Dec 24 19:27	5° $\Theta$ 32'19	0°35'56	minimum elong	7383 Dec 07 06:20	18° $\Upsilon$ 12'22	1°05'41
desc. node	7382 Dec 29 17:05	13° $\Theta$ 57'07			7383 Dec 13 20:18	0° $\Theta$	
max. Earth dist.	7383 Jan 01 05:42	18° $\Theta$ 09'57	1.42455 AU	max. Earth dist.	7383 Dec 14 14:13	1° $\Theta$ 17'34	1.40449 AU
evening rise	7383 Jan 07 06:27	27° $\Theta$ 55'21		desc. node	7383 Dec 16 14:06	4° $\Theta$ 42'11	
	7383 Jan 08 14:04	0° $\approx$		evening rise	7383 Dec 18 23:05	8° $\Theta$ 40'46	
	7383 Jan 28 23:16	0° $\Upsilon$			7384 Jan 01 14:42	0° $\approx$	
evening max el	7383 Feb 08 21:56	13° $\Upsilon$ 20'05	22°17'23	evening max el	7384 Jan 22 12:54	27° $\approx$ 02'51	23°37'18
retrograde	7383 Feb 18 12:44	19° $\Upsilon$ 02'29			7384 Jan 25 19:02	0° $\Upsilon$	
asc. node	7383 Feb 20 12:49	18° $\Upsilon$ 41'53		retrograde	7384 Feb 02 06:39	3° $\Upsilon$ 22'57	
evening set	7383 Feb 23 03:07	17° $\Upsilon$ 10'10		evening set	7384 Feb 07 09:09	1° $\Upsilon$ 15'45	
inferior conj	7383 Feb 28 11:17	10° $\Upsilon$ 48'43	2°21'57	asc. node	7384 Feb 07 09:51	1° $\Upsilon$ 14'16	
minimum elong	7383 Feb 28 08:59	10° $\Upsilon$ 56'43	2°21'18		7384 Feb 08 17:00	30° $\Upsilon$ $\approx$	
min. Earth dist.	7383 Feb 28 08:52	10° $\Upsilon$ 57'07	0.68326 AU	min. Earth dist.	7384 Feb 12 05:32	25° $\approx$ 36'48	0.68224 AU
morning rise	7383 Mar 05 14:41	4° $\Upsilon$ 38'30		inferior conj	7384 Feb 12 19:31	24° $\approx$ 49'02	1°42'23
direct	7383 Mar 10 08:20	2° $\Upsilon$ 38'40		minimum elong	7384 Feb 12 17:28	24° $\approx$ 56'00	1°41'43
				morning rise	7384 Feb 18 01:45	18° $\approx$ 44'14	



direct	7384 Feb 22 05:35	17°  07'06		greatest brilliancy	7385 Feb 25 07:16	22°  27'01	-0.7m
morning max el	7384 Mar 01 10:30	21°  49'07	20°48'24	desc. node	7385 Feb 28 10:33	27°  07'01	
	7384 Mar 08 08:55	0°  ✕			7385 Mar 02 08:28	0°  ✕	
desc. node	7384 Mar 13 13:33	7°  ✕07'06		morning set	7385 Mar 10 02:51	11°  ✕51'57	
	7384 Mar 28 22:29	0°  Y			7385 Mar 21 17:42	0°  Y	
morning set	7384 Mar 31 05:49	3°  Y34'39		max. Earth dist.	7385 Mar 22 00:21	0°  Y26'20	1.44511 AU
max. Earth dist.	7384 Apr 08 12:10	16°  Y42'49	1.43036 AU				
				superior conj	7385 Mar 26 14:09	7°  Y45'02	-2°09'13
superior conj	7384 Apr 15 08:36	28°  Y02'27	-2°08'29	minimum elong	7385 Mar 26 11:02	7°  Y32'29	2°09'09
minimum elong	7384 Apr 15 11:37	28°  Y15'11	2°08'26	evening rise	7385 Apr 09 06:32	0°  ✕22'13	
	7384 Apr 16 12:24	0°  ✕			7385 Apr 09 01:16	0°  ✕	
evening rise	7384 Apr 27 07:11	18°  ✕47'56		asc. node	7385 Apr 22 05:59	21°  ✕36'49	
	7384 May 03 15:49	0°  II		evening max el	7385 Apr 27 16:42	28°  ✕28'42	18°13'55
asc. node	7384 May 05 08:55	2°  II54'17			7385 Apr 29 09:52	0°  II	
evening max el	7384 May 14 03:31	15°  II08'51	18°05'46	retrograde	7385 May 04 02:03	1°  II52'19	
retrograde	7384 May 20 16:54	18°  II31'03		evening set	7385 May 07 00:28	1°  II06'36	
evening set	7384 May 23 08:25	17°  II57'53			7385 May 08 17:47	30°  R✕	
inferior conj	7384 May 29 21:02	12°  II56'32	2°42'04	inferior conj	7385 May 13 00:49	25°  ✕46'33	3°13'42
minimum elong	7384 May 29 23:57	12°  II49'19	2°41'21	minimum elong	7385 May 13 02:33	25°  ✕41'44	3°13'25
min. Earth dist.	7384 Jun 02 00:00	9°  II52'43	0.61331 AU	min. Earth dist.	7385 May 15 14:44	22°  ✕55'02	0.63455 AU
morning rise	7384 Jun 05 13:20	6°  II57'26		morning rise	7385 May 19 03:22	19°  ✕35'24	
desc. node	7384 Jun 09 12:59	5°  II02'30		direct	7385 May 25 22:06	16°  ✕56'57	
direct	7384 Jun 12 05:59	4°  II40'22		desc. node	7385 May 27 10:02	17°  ✕04'01	
morning max el	7384 Jun 26 11:35	12°  II39'44	27°53'54	morning max el	7385 Jun 08 19:53	24°  ✕58'49	27°44'44
	7384 Jul 10 05:51	0°  ☾			7385 Jun 13 09:32	0°  II	
	7384 Jul 27 11:32	0°  Ω			7385 Jul 03 16:53	0°  ☾	
morning set	7384 Jul 29 15:00	4°  Ω20'44		morning set	7385 Jul 13 11:30	18°  ☾16'04	
asc. node	7384 Aug 01 08:11	10°  Ω01'37		max. Earth dist.	7385 Jul 18 14:07	28°  ☾47'25	1.32684 AU
max. Earth dist.	7384 Aug 04 10:50	16°  Ω43'57	1.31977 AU	asc. node	7385 Jul 19 05:12	0°  Ω07'25	
					7385 Jul 19 03:48	0°  Ω	
superior conj	7384 Aug 05 23:56	20°  Ω07'06	0°46'16				
minimum elong	7384 Aug 05 22:03	19°  Ω56'45	0°45'50	superior conj	7385 Jul 21 07:12	4°  Ω35'21	0°21'12
	7384 Aug 10 11:48	0°  ൬		minimum elong	7385 Jul 21 06:12	4°  Ω29'57	0°20'54
evening rise	7384 Aug 12 18:59	4°  ൬58'35		evening rise	7385 Jul 28 06:39	19°  Ω40'47	
	7384 Aug 25 22:51	0°  ♎			7385 Aug 02 07:00	0°  ൬	
desc. node	7384 Sep 05 12:05	14°  ♎18'25		evening max el	7385 Aug 20 06:35	26°  ൬56'52	23°15'06
evening max el	7384 Sep 07 19:05	16°  ♎38'55	24°52'29	desc. node	7385 Aug 23 09:10	29°  ൬38'55	
retrograde	7384 Sep 21 15:36	23°  ♎37'52			7385 Aug 23 20:25	0°  ♎	
evening set	7384 Sep 27 03:15	22°  ♎30'08		retrograde	7385 Sep 02 17:23	3°  ♎40'49	
min. Earth dist.	7384 Oct 02 06:18	19°  ♎45'49	0.57035 AU	evening set	7385 Sep 06 17:14	3°  ♎05'53	
inferior conj	7384 Oct 05 01:36	17°  ♎56'01	-5°26'23		7385 Sep 13 11:32	30°  R൬	
minimum elong	7384 Oct 05 04:17	17°  ♎51'36	5°26'11	min. Earth dist.	7385 Sep 13 15:46	29°  ൬53'54	0.55518 AU
morning rise	7384 Oct 13 07:34	13°  ♎48'18		inferior conj	7385 Sep 15 10:08	28°  ൬52'00	-5°21'20
direct	7384 Oct 15 20:39	13°  ♎29'59		minimum elong	7385 Sep 15 05:44	28°  ൬58'26	5°20'56
morning max el	7384 Oct 25 02:38	17°  ♎52'47	19°17'11	morning rise	7385 Sep 23 20:29	25°  ൬00'48	
asc. node	7384 Oct 28 07:38	21°  ♎25'31		direct	7385 Sep 26 19:24	24°  ൬39'52	
	7384 Nov 03 01:22	0°  ♏		morning max el	7385 Oct 07 14:09	29°  ൬41'53	20°30'11
morning set	7384 Nov 11 03:14	15°  ♏13'37			7385 Oct 07 21:48	0°  ♎	
	7384 Nov 18 13:29	0°  ♏		asc. node	7385 Oct 15 04:39	9°  ♎09'18	
				morning set	7385 Oct 26 09:49	29°  ♎53'12	
superior conj	7384 Nov 19 06:18	1°  ♏21'57	1°26'20		7385 Oct 26 11:08	0°  ♏	
minimum elong	7384 Nov 19 09:06	1°  ♏35'36	1°26'08				
max. Earth dist.	7384 Nov 25 19:56	13°  ♏44'16	1.38298 AU	superior conj	7385 Nov 02 22:24	15°  ♏23'55	1°37'57
evening rise	7384 Nov 29 13:53	20°  ♏25'07		minimum elong	7385 Nov 02 23:54	15°  ♏31'30	1°37'56
desc. node	7384 Dec 02 11:08	25°  ♏22'38		max. Earth dist.	7385 Nov 08 03:08	25°  ♏42'22	1.36245 AU
	7384 Dec 05 05:44	0°  ♏			7385 Nov 10 09:16	0°  ♏	
	7384 Dec 25 16:38	0°  ♏		evening rise	7385 Nov 12 00:37	3°  ♏02'52	
evening max el	7385 Jan 04 02:06	10°  ♏48'29	24°55'11	desc. node	7385 Nov 19 08:11	15°  ♏54'11	
retrograde	7385 Jan 15 20:37	17°  ♏38'56			7385 Nov 28 05:44	0°  ♏	
evening set	7385 Jan 21 12:01	15°  ♏18'07		evening max el	7385 Dec 17 14:58	24°  ♏34'14	26°04'02
asc. node	7385 Jan 24 06:54	12°  ♏24'56			7385 Dec 24 12:15	0°  ♏	
min. Earth dist.	7385 Jan 26 00:33	10°  ♏13'36	0.67731 AU	retrograde	7385 Dec 30 05:51	1°  ♏44'41	
inferior conj	7385 Jan 27 01:50	8°  ♏50'24	0°54'59		7386 Jan 04 09:31	30°  R♏	
minimum elong	7385 Jan 27 00:33	8°  ♏54'37	0°54'33	evening set	7386 Jan 05 10:01	29°  ♏13'17	
morning rise	7385 Feb 01 13:19	2°  ♏52'44		min. Earth dist.	7386 Jan 09 15:45	24°  ♏43'24	0.66862 AU
direct	7385 Feb 05 04:22	1°  ♏37'09		inferior conj	7386 Jan 11 04:24	22°  ♏49'33	0°00'22
morning max el	7385 Feb 12 11:57	5°  ♏42'23	19°40'10	minimum elong	7386 Jan 11 04:23	22°  ♏49'35	0°00'27

transit middle	7386 Jan 11 04:23	22° $\text{Z}$ 49'35	0°00'27	evening max el	7386 Nov 30 04:05	8° $\text{Z}$ 13'38	26°56'25
transit begin	7386 Jan 11 01:32	22° $\text{Z}$ 58'28		retrograde	7386 Dec 13 09:33	15° $\text{Z}$ 32'37	
transit end	7386 Jan 11 07:14	22° $\text{Z}$ 40'43		evening set	7386 Dec 20 01:08	12° $\text{Z}$ 55'44	
asc. node	7386 Jan 11 03:58	22° $\text{Z}$ 50'53		min. Earth dist.	7386 Dec 24 00:49	9° $\text{Z}$ 00'19	0.65640 AU
morning rise	7386 Jan 16 23:22	17° $\text{Z}$ 00'57		inferior conj	7386 Dec 26 01:03	6° $\text{Z}$ 41'40	-1°00'42
direct	7386 Jan 20 03:08	16° $\text{Z}$ 04'09		minimum elong	7386 Dec 26 02:48	6° $\text{Z}$ 36'37	0°59'52
morning max el	7386 Jan 26 20:54	19° $\text{Z}$ 44'53	18°47'16	asc. node	7386 Dec 29 01:02	3° $\text{Z}$ 27'19	
	7386 Feb 03 22:35	0° $\approx$		morning rise	7387 Jan 01 05:34	1° $\text{Z}$ 04'32	
desc. node	7386 Feb 15 07:31	17° $\approx$ 25'27		direct	7387 Jan 04 00:00	0° $\text{Z}$ 22'43	
morning set	7386 Feb 17 13:37	20° $\approx$ 57'15		morning max el	7387 Jan 10 11:15	3° $\text{Z}$ 50'06	18°10'44
	7386 Feb 23 08:16	0° $\text{H}$			7387 Jan 28 06:53	0° $\approx$	
max. Earth dist.	7386 Mar 04 17:20	14° $\text{H}$ 40'36	1.45326 AU	morning set	7387 Jan 29 04:45	1° $\approx$ 28'49	
				desc. node	7387 Feb 02 04:30	7° $\approx$ 56'36	
superior conj	7386 Mar 05 23:40	16° $\text{H}$ 39'34	-1°50'03				
minimum elong	7386 Mar 05 14:45	16° $\text{H}$ 04'33	1°49'20	superior conj	7387 Feb 13 04:46	25° $\approx$ 29'10	-1°13'13
	7386 Mar 14 10:21	0° $\text{Y}$		minimum elong	7387 Feb 12 20:21	24° $\approx$ 56'02	1°12'09
evening rise	7386 Mar 21 06:51	10° $\text{Y}$ 58'52		max. Earth dist.	7387 Feb 15 12:35	29° $\approx$ 08'25	1.45411 AU
greatest brilliancy	7386 Mar 27 21:37	21° $\text{Y}$ 38'39	-0.9m		7387 Feb 16 01:45	0° $\text{H}$	
	7386 Apr 02 04:47	0° $\text{B}$		evening rise	7387 Mar 01 08:52	20° $\text{H}$ 43'31	
asc. node	7386 Apr 09 03:04	9° $\text{B}$ 42'24			7387 Mar 07 08:10	0° $\text{Y}$	
evening max el	7386 Apr 11 04:25	11° $\text{B}$ 59'16	18°40'17	greatest brilliancy	7387 Mar 13 12:59	9° $\text{Y}$ 30'45	-0.7m
retrograde	7386 Apr 17 18:47	15° $\text{B}$ 37'10		evening max el	7387 Mar 25 12:27	25° $\text{Y}$ 34'33	19°23'47
evening set	7386 Apr 21 00:14	14° $\text{B}$ 37'54		asc. node	7387 Mar 27 00:09	26° $\text{Y}$ 58'47	
inferior conj	7386 Apr 26 16:09	9° $\text{B}$ 00'52	3°25'37	retrograde	7387 Apr 01 15:35	29° $\text{Y}$ 37'59	
minimum elong	7386 Apr 26 16:27	8° $\text{B}$ 59'56	3°25'33	evening set	7387 Apr 05 04:48	28° $\text{Y}$ 24'21	
min. Earth dist.	7386 Apr 28 14:49	6° $\text{B}$ 38'36	0.65278 AU	inferior conj	7387 Apr 10 15:29	22° $\text{Y}$ 32'00	3°22'15
morning rise	7386 May 02 08:00	2° $\text{B}$ 44'37		minimum elong	7387 Apr 10 14:33	22° $\text{Y}$ 35'01	3°22'09
	7386 May 08 00:01	30° $\text{K}$ $\text{Y}$		min. Earth dist.	7387 Apr 11 22:58	20° $\text{Y}$ 49'11	0.66697 AU
direct	7386 May 08 22:06	29° $\text{Y}$ 56'56		morning rise	7387 Apr 15 23:58	16° $\text{Y}$ 14'57	
	7386 May 09 20:34	0° $\text{B}$		direct	7387 Apr 22 04:30	13° $\text{Y}$ 30'22	
desc. node	7386 May 14 07:02	1° $\text{B}$ 28'28		desc. node	7387 May 01 04:01	17° $\text{Y}$ 43'08	
morning max el	7386 May 22 06:12	7° $\text{B}$ 49'21	27°01'53	morning max el	7387 May 04 16:05	20° $\text{Y}$ 58'04	25°53'32
	7386 Jun 08 10:41	0° $\text{II}$			7387 May 12 11:19	0° $\text{B}$	
	7386 Jun 26 01:16	0° $\text{E}$			7387 Jun 01 15:07	0° $\text{II}$	
morning set	7386 Jun 26 22:14	1° $\text{E}$ 40'18		morning set	7387 Jun 09 19:19	14° $\text{II}$ 22'25	
max. Earth dist.	7386 Jul 01 07:59	10° $\text{E}$ 22'31	1.33873 AU	max. Earth dist.	7387 Jun 13 14:40	21° $\text{II}$ 31'41	1.35534 AU
					7387 Jun 17 22:21	0° $\text{E}$	
superior conj	7386 Jul 05 09:12	18° $\text{E}$ 43'57	-0°07'15				
minimum elong	7386 Jul 05 09:35	18° $\text{E}$ 46'00	0°07'15	superior conj	7387 Jun 19 03:21	2° $\text{E}$ 25'49	-0°37'56
behind sun begin	7386 Jul 05 04:31	18° $\text{E}$ 19'25		minimum elong	7387 Jun 19 05:33	2° $\text{E}$ 36'57	0°37'35
behind sun end	7386 Jul 05 14:39	19° $\text{E}$ 12'37		asc. node	7387 Jun 22 23:18	10° $\text{E}$ 15'57	
asc. node	7386 Jul 06 02:15	20° $\text{E}$ 13'32		evening rise	7387 Jun 27 00:29	18° $\text{E}$ 37'14	
	7386 Jul 10 16:47	0° $\text{O}$			7387 Jul 02 18:16	0° $\text{O}$	
evening rise	7386 Jul 12 17:12	4° $\text{O}$ 15'44		evening max el	7387 Jul 15 02:11	18° $\text{O}$ 11'28	20°16'31
	7386 Jul 26 20:59	0° $\text{P}$		retrograde	7387 Jul 25 21:11	23° $\text{O}$ 30'22	
evening max el	7386 Aug 01 22:36	7° $\text{P}$ 17'35	21°38'55	evening set	7387 Jul 27 19:52	23° $\text{O}$ 20'46	
desc. node	7386 Aug 10 06:14	12° $\text{P}$ 46'52		desc. node	7387 Jul 28 03:16	23° $\text{O}$ 17'33	
retrograde	7386 Aug 14 08:28	13° $\text{P}$ 26'52		inferior conj	7387 Aug 05 23:11	19° $\text{O}$ 23'00	-2°38'36
evening set	7386 Aug 16 23:15	13° $\text{P}$ 11'21		minimum elong	7387 Aug 05 15:57	19° $\text{O}$ 33'38	2°36'05
inferior conj	7386 Aug 26 05:00	9° $\text{P}$ 11'50	-4°22'27	min. Earth dist.	7387 Aug 07 11:35	18° $\text{O}$ 29'32	0.54942 AU
minimum elong	7386 Aug 25 19:46	9° $\text{P}$ 24'46	4°20'10	morning rise	7387 Aug 14 10:55	15° $\text{O}$ 12'58	
min. Earth dist.	7386 Aug 26 00:55	9° $\text{P}$ 17'33	0.54755 AU	direct	7387 Aug 18 15:53	14° $\text{O}$ 34'42	
morning rise	7386 Sep 03 17:23	5° $\text{P}$ 21'13		morning max el	7387 Sep 01 03:50	21° $\text{O}$ 09'33	23°47'36
direct	7386 Sep 07 05:20	4° $\text{P}$ 54'32			7387 Sep 08 18:40	0° $\text{P}$	
morning max el	7386 Sep 19 13:17	10° $\text{P}$ 43'37	22°03'02	asc. node	7387 Sep 18 22:41	16° $\text{P}$ 40'46	
asc. node	7386 Oct 02 01:40	27° $\text{P}$ 38'00		morning set	7387 Sep 25 07:27	29° $\text{P}$ 32'09	
	7386 Oct 03 09:35	0° $\text{U}$			7387 Sep 25 12:42	0° $\text{U}$	
morning set	7386 Oct 10 19:50	14° $\text{U}$ 41'06					
superior conj	7386 Oct 17 23:17	29° $\text{U}$ 50'29	1°41'58	superior conj	7387 Oct 02 06:01	14° $\text{U}$ 32'47	1°39'23
minimum elong	7386 Oct 17 23:24	29° $\text{U}$ 51'06	1°42'01	minimum elong	7387 Oct 02 04:59	14° $\text{U}$ 27'09	1°39'22
	7386 Oct 18 01:06	0° $\text{M}$		max. Earth dist.	7387 Oct 04 15:22	19° $\text{U}$ 40'55	1.33148 AU
max. Earth dist.	7386 Oct 21 16:52	7° $\text{M}$ 35'18	1.34493 AU	evening rise	7387 Oct 09 18:21	0° $\text{M}$ 18'30	
evening rise	7386 Oct 26 03:23	16° $\text{M}$ 24'03			7387 Oct 09 14:40	0° $\text{M}$	
	7386 Nov 02 13:24	0° $\text{X}$		desc. node	7387 Oct 24 02:17	26° $\text{M}$ 08'00	
desc. node	7386 Nov 06 05:14	6° $\text{X}$ 11'30			7387 Oct 26 13:43	0° $\text{X}$	
	7386 Nov 22 16:56	0° $\text{Z}$		evening max el	7387 Nov 12 16:30	21° $\text{X}$ 36'07	27°25'09
				retrograde	7387 Nov 26 06:50	28° $\text{X}$ 54'42	

evening set	7387 Dec 03 06:52	26°♊19'37		evening max el	7388 Oct 25 01:51	4°♊26'55	27°24'02
min. Earth dist.	7387 Dec 07 01:32	22°♊57'06	0.64083 AU	retrograde	7388 Nov 07 20:55	11°♊40'58	
inferior conj	7387 Dec 09 13:18	20°♊21'12	-2°06'40	evening set	7388 Nov 15 00:01	9°♊17'03	
minimum elong	7387 Dec 09 17:11	20°♊11'03	2°05'02	min. Earth dist.	7388 Nov 18 15:56	6°♊22'36	0.62231 AU
asc. node	7387 Dec 15 22:03	15°♊06'10		inferior conj	7388 Nov 21 14:08	3°♊39'37	-3°14'43
morning rise	7387 Dec 16 05:04	14°♊58'36		minimum elong	7388 Nov 21 20:06	3°♊25'44	3°12'34
direct	7387 Dec 18 16:27	14°♊27'52			7388 Nov 25 23:34	30°♋♌	
morning max el	7387 Dec 25 04:17	17°♊51'21	17°51'21	morning rise	7388 Nov 28 18:11	28°♌35'06	
	7388 Jan 03 00:43	0°♋		direct	7388 Dec 01 01:10	28°♌11'49	
morning set	7388 Jan 11 00:11	13°♋23'53		asc. node	7388 Dec 01 19:03	28°♌14'21	
desc. node	7388 Jan 20 01:30	28°♋36'40			7388 Dec 05 22:15	0°♌	
	7388 Jan 20 21:45	0°♌		morning max el	7388 Dec 07 20:52	1°♌40'08	17°49'50
				morning set	7388 Dec 23 17:37	26°♌21'34	
					7388 Dec 25 18:33	0°♍	
superior conj	7388 Jan 24 00:36	5°♌05'26	-0°28'11	superior conj	7389 Jan 03 21:27	15°♍54'40	0°14'51
minimum elong	7388 Jan 23 21:24	4°♌52'27	0°27'38	minimum elong	7389 Jan 03 22:51	16°♍00'34	0°14'44
max. Earth dist.	7388 Jan 29 07:44	13°♌34'44	1.44766 AU	behind sun begin	7389 Jan 03 19:21	15°♍45'41	
evening rise	7388 Feb 08 21:16	0°♌02'20		behind sun end	7389 Jan 04 02:21	16°♍15'25	
	7388 Feb 08 20:39	0°♌		desc. node	7389 Jan 05 22:30	19°♍21'23	
	7388 Feb 29 03:03	0°♌		max. Earth dist.	7389 Jan 10 23:55	27°♍41'33	1.43453 AU
evening max el	7388 Mar 07 15:21	9°♌11'51	20°22'22		7389 Jan 12 10:12	0°♌	
asc. node	7388 Mar 12 21:12	13°♌12'23		evening rise	7389 Jan 18 10:47	9°♌31'33	
retrograde	7388 Mar 15 13:57	13°♌49'56			7389 Feb 01 01:12	0°♌	
evening set	7388 Mar 19 11:59	12°♌21'20		evening max el	7389 Feb 18 12:42	22°♌50'15	21°32'57
inferior conj	7388 Mar 24 20:03	6°♌15'30	3°06'41	retrograde	7389 Feb 27 11:53	28°♌08'52	
minimum elong	7388 Mar 24 18:16	6°♌21'37	3°06'22	asc. node	7389 Feb 27 18:14	28°♌08'30	
min. Earth dist.	7388 Mar 25 13:23	5°♌16'26	0.67674 AU	evening set	7389 Mar 03 19:59	26°♌25'00	
morning rise	7388 Mar 30 00:20	0°♌00'04		inferior conj	7389 Mar 09 03:36	20°♌08'13	2°40'55
	7388 Mar 30 00:21	30°♌		minimum elong	7389 Mar 09 01:21	20°♌16'00	2°40'22
direct	7388 Apr 04 16:12	27°♌28'32		min. Earth dist.	7389 Mar 09 08:01	19°♌52'51	0.68209 AU
	7388 Apr 11 03:28	0°♌		morning rise	7389 Mar 14 06:34	13°♌55'48	
morning max el	7388 Apr 16 01:00	4°♌16'38	24°29'30	direct	7389 Mar 19 08:19	11°♌43'39	
desc. node	7388 Apr 17 01:00	5°♌18'44		morning max el	7389 Mar 29 10:44	17°♌42'39	22°59'54
	7388 May 05 18:36	0°♌		desc. node	7389 Apr 03 21:59	23°♌52'52	
morning set	7388 May 21 21:45	26°♌08'48			7389 Apr 08 15:56	0°♌	
	7388 May 24 02:01	0°♌			7389 Apr 28 20:45	0°♌	
max. Earth dist.	7388 May 25 12:51	2°♌36'48	1.37578 AU	morning set	7389 May 02 23:55	6°♌45'21	
				max. Earth dist.	7389 May 07 09:10	14°♌10'26	1.39805 AU
superior conj	7388 Jun 01 10:24	15°♌32'27	-1°09'08	superior conj	7389 May 15 02:20	27°♌53'54	-1°38'04
minimum elong	7388 Jun 01 14:33	15°♌52'26	1°08'32	minimum elong	7389 May 15 07:50	28°♌19'07	1°37'30
asc. node	7388 Jun 08 20:20	0°♌10'22			7389 May 16 05:43	0°♌	
	7388 Jun 08 18:15	0°♌		evening rise	7389 May 24 18:56	16°♌11'18	
evening rise	7388 Jun 10 02:05	2°♌38'27		asc. node	7389 May 26 17:21	19°♌52'26	
	7388 Jun 26 23:09	0°♌			7389 Jun 01 06:12	0°♌	
evening max el	7388 Jun 26 18:39	29°♌49'02	19°13'38	evening max el	7389 Jun 09 21:34	12°♌07'11	18°31'30
retrograde	7388 Jul 05 20:57	4°♌17'58		retrograde	7389 Jun 17 15:19	15°♌58'03	
evening set	7388 Jul 07 18:51	4°♌06'55		evening set	7389 Jun 19 19:08	15°♌41'01	
desc. node	7388 Jul 14 00:18	1°♌24'42		inferior conj	7389 Jun 27 11:02	11°♌11'34	0°59'54
inferior conj	7388 Jul 16 06:38	29°♌56'36	-0°41'15	minimum elong	7389 Jun 27 13:07	11°♌07'30	0°59'05
minimum elong	7388 Jul 16 04:50	29°♌59'37	0°40'38	desc. node	7389 Jun 30 21:20	8°♌31'52	
	7388 Jul 16 04:36	30°♌		min. Earth dist.	7389 Jun 30 19:31	8°♌35'15	0.57862 AU
min. Earth dist.	7388 Jul 19 01:07	28°♌06'09	0.56053 AU	morning rise	7389 Jul 05 03:40	5°♌50'53	
morning rise	7388 Jul 24 11:55	25°♌12'20		direct	7389 Jul 11 00:38	4°♌22'56	
direct	7388 Jul 29 13:05	24°♌13'44		morning max el	7389 Jul 25 10:02	12°♌01'14	26°51'50
	7388 Aug 11 03:15	0°♌			7389 Aug 08 11:11	0°♌	
morning max el	7388 Aug 12 16:43	1°♌25'25	25°29'28	asc. node	7389 Aug 22 16:41	25°♌53'35	
	7388 Sep 01 15:41	0°♌		morning set	7389 Aug 24 04:40	29°♌01'52	
asc. node	7388 Sep 04 19:41	6°♌08'15			7389 Aug 24 15:38	0°♌	
morning set	7388 Sep 08 18:56	14°♌20'36		superior conj	7389 Aug 31 03:55	14°♌14'19	1°17'19
				minimum elong	7389 Aug 31 01:41	14°♌01'55	1°16'58
superior conj	7388 Sep 15 16:13	29°♌22'43	1°30'58	max. Earth dist.	7389 Aug 31 06:54	14°♌30'50	1.31788 AU
minimum elong	7388 Sep 15 14:22	29°♌12'32	1°30'48	evening rise	7389 Sep 06 23:56	29°♌08'56	
	7388 Sep 15 22:59	0°♌			7389 Sep 07 09:37	0°♌	
max. Earth dist.	7388 Sep 16 21:05	2°♌01'18	1.32245 AU		7389 Sep 23 21:33	0°♌	
evening rise	7388 Sep 22 18:05	14°♌35'57					
	7388 Sep 30 15:35	0°♌					
desc. node	7388 Oct 09 23:20	15°♌34'09					
	7388 Oct 20 19:20	0°♌					

desc. node	7389 Sep 26 20:23	4°♍17'50		evening max el	7390 Sep 19 01:19	27°♊50'32	25°42'32
evening max el	7389 Oct 07 05:25	16°♍33'41	26°49'22		7390 Sep 21 12:02	0°♍	
retrograde	7389 Oct 21 03:04	23°♍42'45		retrograde	7390 Oct 02 23:51	4°♍54'33	
evening set	7389 Oct 28 00:28	21°♍41'12		evening set	7390 Oct 09 03:24	3°♍25'52	
min. Earth dist.	7389 Oct 31 19:28	19°♍04'08	0.60180 AU	min. Earth dist.	7390 Oct 13 13:41	0°♍49'23	0.58112 AU
inferior conj	7389 Nov 04 00:11	16°♍28'05	-4°19'10		7390 Oct 14 18:01	30°♋♊	
minimum elong	7389 Nov 04 07:13	16°♍13'45	4°17'15	inferior conj	7390 Oct 16 16:07	28°♊37'45	-5°09'44
morning rise	7389 Nov 11 16:14	11°♍44'56		minimum elong	7390 Oct 16 21:32	28°♊28'06	5°08'54
direct	7389 Nov 13 22:04	11°♍25'55		morning rise	7390 Oct 24 18:01	24°♊17'26	
asc. node	7389 Nov 18 16:04	12°♍55'46		direct	7390 Oct 27 02:52	23°♊59'46	
morning max el	7389 Nov 21 09:42	15°♍07'56	18°07'20	morning max el	7390 Nov 04 15:13	28°♊05'10	18°45'26
	7389 Dec 01 15:46	0°♊		asc. node	7390 Nov 05 13:06	29°♊00'17	
morning set	7389 Dec 07 02:50	10°♊03'05			7390 Nov 06 10:46	0°♍	
				morning set	7390 Nov 20 23:04	24°♍15'04	
superior conj	7389 Dec 16 19:16	27°♊55'26	0°50'05		7390 Nov 23 21:35	0°♊	
minimum elong	7389 Dec 16 22:39	28°♊10'35	0°49'41				
	7389 Dec 17 23:13	0°♊		superior conj	7390 Nov 29 13:28	10°♊54'41	1°15'46
desc. node	7389 Dec 23 19:30	10°♊07'14		minimum elong	7390 Nov 29 16:49	11°♊10'31	1°15'28
max. Earth dist.	7389 Dec 24 10:58	11°♊12'24	1.41631 AU	max. Earth dist.	7390 Dec 06 17:22	23°♊59'54	1.39528 AU
evening rise	7389 Dec 29 15:09	19°♊43'16			7390 Dec 10 04:31	0°♊	
	7390 Jan 05 03:54	0°♊		evening rise	7390 Dec 10 17:17	0°♊54'07	
	7390 Jan 26 11:08	0°♊		desc. node	7390 Dec 10 16:32	0°♊50'58	
evening max el	7390 Feb 01 05:21	6°♊30'22	22°51'09		7390 Dec 29 12:12	0°♊	
retrograde	7390 Feb 11 07:48	12°♊29'59		evening max el	7391 Jan 14 19:17	20°♊14'27	24°11'08
asc. node	7390 Feb 14 15:16	11°♊34'31		retrograde	7391 Jan 26 00:19	26°♊49'24	
evening set	7390 Feb 16 03:12	10°♊31'05		evening set	7391 Jan 31 08:08	24°♊36'17	
min. Earth dist.	7390 Feb 21 04:38	4°♊32'31	0.68327 AU	asc. node	7391 Feb 01 12:19	23°♊30'03	
inferior conj	7390 Feb 21 12:06	4°♊06'38	2°06'10	min. Earth dist.	7391 Feb 05 01:01	19°♊11'41	0.68053 AU
minimum elong	7390 Feb 21 09:51	4°♊14'24	2°05'30	inferior conj	7391 Feb 05 19:47	18°♊08'21	1°23'15
	7390 Feb 24 15:43	30°♋♊		minimum elong	7391 Feb 05 18:00	18°♊14'22	1°22'39
morning rise	7390 Feb 26 16:25	27°♊58'33		morning rise	7391 Feb 11 03:57	12°♊06'07	
direct	7390 Mar 03 03:59	26°♊08'37		direct	7391 Feb 15 02:06	10°♊38'26	
	7390 Mar 10 16:03	0°♊		morning max el	7391 Feb 22 21:14	15°♊03'50	20°17'37
morning max el	7390 Mar 12 00:29	1°♊17'25	21°33'40		7391 Mar 06 15:19	0°♊	
desc. node	7390 Mar 21 18:58	13°♊08'47		desc. node	7391 Mar 08 15:57	2°♊55'23	
	7390 Apr 02 12:20	0°♊		morning set	7391 Mar 22 22:43	24°♊26'17	
morning set	7390 Apr 12 22:10	16°♊03'55			7391 Mar 26 12:32	0°♊	
max. Earth dist.	7390 Apr 19 09:32	26°♊32'48	1.41948 AU	max. Earth dist.	7391 Apr 01 17:05	9°♊48'18	1.43736 AU
	7390 Apr 21 11:22	0°♊					
superior conj	7390 Apr 26 22:22	9°♊18'37	-2°00'36	superior conj	7391 Apr 07 18:25	19°♊39'14	-2°11'03
minimum elong	7390 Apr 27 03:16	9°♊39'57	2°00'20	minimum elong	7391 Apr 07 19:11	19°♊42'27	2°11'04
evening rise	7390 May 07 23:12	29°♊05'30			7391 Apr 13 22:34	0°♊	
	7390 May 08 11:08	0°♊		evening rise	7391 Apr 20 10:26	11°♊11'31	
asc. node	7390 May 13 14:23	9°♊16'27		asc. node	7391 Apr 30 11:26	28°♊16'29	
evening max el	7390 May 24 07:15	24°♊56'34	18°09'33		7391 May 01 13:55	0°♊	
retrograde	7390 May 31 03:49	28°♊24'44		evening max el	7391 May 07 20:09	8°♊08'17	18°06'56
evening set	7390 Jun 02 15:03	27°♊58'17		retrograde	7391 May 14 06:36	11°♊29'10	
inferior conj	7390 Jun 09 12:36	23°♊08'36	2°12'51	evening set	7391 May 17 01:05	10°♊50'52	
minimum elong	7390 Jun 09 15:46	23°♊01'21	2°11'53	inferior conj	7391 May 23 08:01	5°♊41'39	2°58'10
min. Earth dist.	7390 Jun 12 20:38	20°♊07'27	0.60043 AU	minimum elong	7391 May 23 10:31	5°♊35'10	2°57'38
morning rise	7390 Jun 16 13:42	17°♊20'11		min. Earth dist.	7391 May 26 06:05	2°♊40'19	0.62271 AU
desc. node	7390 Jun 17 18:22	16°♊40'03			7391 May 29 05:37	30°♋♊	
direct	7390 Jun 23 01:29	15°♊19'31		morning rise	7391 May 29 18:10	29°♊36'27	
morning max el	7390 Jul 07 09:53	23°♊14'34	27°41'59	desc. node	7391 Jun 04 15:24	27°♊11'00	
	7390 Jul 13 10:44	0°♊		direct	7391 Jun 05 12:49	27°♊08'32	
	7390 Aug 01 15:16	0°♊			7391 Jun 13 12:20	0°♊	
morning set	7390 Aug 08 10:56	13°♊30'16		morning max el	7391 Jun 19 15:31	5°♊10'24	27°54'17
asc. node	7390 Aug 09 13:41	15°♊50'34			7391 Jul 08 07:05	0°♊	
max. Earth dist.	7390 Aug 14 17:07	26°♊58'49	1.31775 AU	morning set	7391 Jul 23 11:42	27°♊39'45	
					7391 Jul 24 15:05	0°♊	
superior conj	7390 Aug 15 15:22	29°♊01'37	0°58'52	asc. node	7391 Jul 27 10:42	5°♊54'30	
minimum elong	7390 Aug 15 13:12	28°♊49'42	0°58'26	max. Earth dist.	7391 Jul 28 23:56	9°♊13'57	1.32219 AU
	7390 Aug 16 01:55	0°♊					
evening rise	7390 Aug 22 09:37	13°♊50'28		superior conj	7391 Jul 31 00:44	13°♊38'51	0°36'05
	7390 Aug 30 10:58	0°♊		minimum elong	7391 Jul 30 23:10	13°♊30'16	0°35'42
desc. node	7390 Sep 13 17:27	22°♊02'20		evening rise	7391 Aug 06 21:09	28°♊34'25	
					7391 Aug 07 13:13	0°♊	

	7391 Aug 24 10:02	0°♄			7392 Jul 15 04:30	0°♄	
evening max el	7391 Aug 31 14:34	8°♄24'05	24°12'01	evening rise	7392 Jul 21 08:39	13°♄15'01	
desc. node	7391 Aug 31 14:31	8°♄24'00			7392 Jul 29 19:35	0°♄	
retrograde	7391 Sep 14 08:41	15°♄18'13		evening max el	7392 Aug 12 03:04	18°♄39'42	22°33'07
evening set	7391 Sep 19 05:35	14°♄25'52		desc. node	7392 Aug 17 11:35	22°♄52'49	
min. Earth dist.	7391 Sep 25 01:24	11°♄31'28	0.56310 AU	retrograde	7392 Aug 25 04:54	25°♄10'42	
inferior conj	7391 Sep 27 11:47	10°♄00'59	-5°30'22	evening set	7392 Aug 28 13:32	24°♄45'55	
minimum elong	7391 Sep 27 11:40	10°♄01'11	5°30'21	min. Earth dist.	7392 Sep 05 10:13	21°♄18'07	0.55091 AU
morning rise	7391 Oct 05 19:56	6°♄01'12		inferior conj	7392 Sep 06 13:23	20°♄39'37	-5°03'06
direct	7391 Oct 08 12:42	5°♄42'04		minimum elong	7392 Sep 06 06:14	20°♄49'46	5°01'56
morning max el	7391 Oct 18 09:55	10°♄20'57	19°45'34	morning rise	7392 Sep 15 00:49	16°♄51'07	
asc. node	7391 Oct 23 10:08	16°♄12'07		direct	7392 Sep 18 05:14	16°♄28'00	
	7391 Oct 31 15:55	0°♄		morning max el	7392 Sep 29 15:53	21°♄49'13	21°07'33
morning set	7391 Nov 05 02:41	8°♄46'45			7392 Oct 06 12:28	0°♄	
				asc. node	7392 Oct 09 07:10	4°♄16'42	
superior conj	7391 Nov 12 22:50	24°♄36'59	1°32'14	morning set	7392 Oct 19 11:00	23°♄30'52	
minimum elong	7391 Nov 13 01:07	24°♄48'19	1°32'09		7392 Oct 22 13:28	0°♄	
	7391 Nov 15 16:47	0°♄					
max. Earth dist.	7391 Nov 18 22:58	6°♄11'19	1.37396 AU	superior conj	7392 Oct 26 19:05	8°♄50'31	1°40'30
evening rise	7391 Nov 22 17:01	13°♄02'20		minimum elong	7392 Oct 26 19:59	8°♄55'09	1°40'32
desc. node	7391 Nov 27 13:34	21°♄28'04		max. Earth dist.	7392 Oct 31 08:54	18°♄06'15	1.35460 AU
	7391 Dec 02 18:43	0°♄		evening rise	7392 Nov 04 11:06	25°♄59'46	
	7391 Dec 24 12:57	0°♄			7392 Nov 06 14:57	0°♄	
evening max el	7391 Dec 28 08:23	4°♄01'10	25°26'08	desc. node	7392 Nov 13 10:36	11°♄54'11	
retrograde	7392 Jan 09 12:20	11°♄01'14			7392 Nov 25 05:29	0°♄	
evening set	7392 Jan 15 09:07	8°♄35'47		evening max el	7392 Dec 09 21:32	17°♄45'22	26°28'46
asc. node	7392 Jan 19 09:24	4°♄15'28		retrograde	7392 Dec 22 19:01	24°♄59'48	
min. Earth dist.	7392 Jan 19 18:46	3°♄45'44	0.67404 AU	evening set	7392 Dec 29 04:24	22°♄25'24	
inferior conj	7392 Jan 21 00:45	2°♄09'10	0°32'43	min. Earth dist.	7393 Jan 02 07:32	18°♄10'20	0.66391 AU
minimum elong	7392 Jan 20 23:57	2°♄11'46	0°32'28	inferior conj	7393 Jan 04 01:03	16°♄05'22	-0°24'48
	7392 Jan 22 17:49	30°♄		minimum elong	7393 Jan 04 01:44	16°♄03'19	0°24'25
morning rise	7392 Jan 26 15:08	26°♄14'49		asc. node	7393 Jan 05 06:28	14°♄37'59	
direct	7392 Jan 30 01:14	25°♄07'28		morning rise	7393 Jan 09 23:50	10°♄21'18	
morning max el	7392 Feb 06 01:55	29°♄00'48	19°15'41	direct	7393 Jan 12 23:30	9°♄31'12	
	7392 Feb 07 00:51	0°♄		morning max el	7393 Jan 19 13:25	13°♄04'34	18°29'41
greatest brilliancy	7392 Feb 19 07:33	16°♄39'08	-0.7m		7393 Jan 31 21:37	0°♄	
desc. node	7392 Feb 23 12:56	23°♄03'44		morning set	7393 Feb 08 20:43	12°♄35'27	
	7392 Feb 28 01:15	0°♄		desc. node	7393 Feb 09 09:54	13°♄27'46	
morning set	7392 Feb 29 22:43	2°♄55'36			7393 Feb 19 21:18	0°♄	
max. Earth dist.	7392 Mar 14 07:38	23°♄46'51	1.44949 AU				
				superior conj	7393 Feb 24 19:17	7°♄42'22	-1°36'08
superior conj	7392 Mar 17 14:15	28°♄57'49	-2°03'36	minimum elong	7393 Feb 24 09:40	7°♄04'45	1°35'10
minimum elong	7392 Mar 17 08:12	28°♄33'49	2°03'18	max. Earth dist.	7393 Feb 25 02:27	8°♄10'29	1.45457 AU
	7392 Mar 18 05:53	0°♄			7393 Mar 10 23:43	0°♄	
evening rise	7392 Apr 01 00:12	22°♄21'00		evening rise	7393 Mar 12 14:28	2°♄33'20	
	7392 Apr 05 15:05	0°♄		greatest brilliancy	7393 Mar 21 21:44	17°♄15'15	-0.8m
asc. node	7392 Apr 16 08:30	16°♄44'34			7393 Mar 30 12:32	0°♄	
evening max el	7392 Apr 20 09:07	21°♄33'59	18°22'58	asc. node	7393 Apr 03 05:34	4°♄30'25	
retrograde	7392 Apr 26 19:22	25°♄01'44		evening max el	7393 Apr 03 19:27	5°♄06'35	18°56'47
evening set	7392 Apr 29 20:51	24°♄10'13		retrograde	7393 Apr 10 14:14	8°♄54'00	
inferior conj	7392 May 05 17:11	18°♄42'49	3°20'51	evening set	7393 Apr 13 22:57	7°♄48'30	
minimum elong	7392 May 05 18:18	18°♄39'33	3°20'40	inferior conj	7393 Apr 19 12:15	2°♄04'31	3°25'52
min. Earth dist.	7392 May 08 00:43	16°♄02'13	0.64283 AU	minimum elong	7393 Apr 19 12:00	2°♄05'18	3°25'48
morning rise	7392 May 11 14:50	12°♄29'08		min. Earth dist.	7393 Apr 21 04:16	29°♄58'31	0.65933 AU
direct	7392 May 18 08:27	9°♄45'14			7393 Apr 21 03:47	30°♄	
desc. node	7392 May 21 12:25	10°♄16'57		morning rise	7393 Apr 25 00:35	25°♄47'39	
morning max el	7392 Jun 01 00:50	17°♄43'51	27°30'08	direct	7393 May 01 11:01	23°♄00'15	
	7392 Jun 11 06:52	0°♄		desc. node	7393 May 08 09:24	25°♄31'55	
	7392 Jun 30 04:04	0°♄			7393 May 13 17:46	0°♄	
morning set	7392 Jul 06 04:29	11°♄23'19		morning max el	7393 May 14 11:15	0°♄43'31	26°35'31
max. Earth dist.	7392 Jul 10 23:41	21°♄06'41	1.33135 AU		7393 Jun 05 07:10	0°♄	
asc. node	7392 Jul 13 07:44	26°♄01'13		morning set	7393 Jun 19 09:56	24°♄30'56	
					7393 Jun 22 06:26	0°♄	
superior conj	7392 Jul 14 06:07	28°♄00'14	0°09'31	max. Earth dist.	7393 Jun 23 13:10	2°♄31'09	1.34530 AU
minimum elong	7392 Jul 14 05:38	27°♄57'42	0°09'21				
behind sun begin	7392 Jul 14 01:11	27°♄33'58		superior conj	7393 Jun 28 05:06	11°♄58'13	-0°20'03
behind sun end	7392 Jul 14 10:05	28°♄21'27		minimum elong	7393 Jun 28 06:13	12°♄03'59	0°19'54

asc. node	7393 Jun 30 04:45	16°☿06'02		superior conj	7394 Jun 11 18:56	25°♊25'53	-0°51'13
evening rise	7393 Jul 05 18:05	27°☿45'15		minimum elong	7394 Jun 11 21:58	25°♊40'57	0°50'45
	7393 Jul 06 20:07	0°♊			7394 Jun 14 01:44	0°☿	
evening max el	7393 Jul 24 23:18	29°♊11'11	21°01'35	asc. node	7394 Jun 17 01:46	6°☿05'21	
	7393 Jul 25 19:50	0°♊		evening rise	7394 Jun 19 23:17	11°☿58'58	
desc. node	7393 Aug 04 08:39	4°♊55'50			7394 Jun 29 13:07	0°♊	
retrograde	7393 Aug 05 17:39	5°♊00'29		evening max el	7394 Jul 07 08:24	10°♊22'58	19°47'12
evening set	7393 Aug 07 23:24	4°♊48'38		retrograde	7394 Jul 17 09:56	15°♊20'09	
inferior conj	7393 Aug 17 06:04	0°♊51'17	-3°42'18	evening set	7394 Jul 19 06:41	15°♊10'42	
minimum elong	7393 Aug 16 20:53	1°♊04'15	3°39'34	desc. node	7394 Jul 22 05:40	14°♊20'11	
min. Earth dist.	7393 Aug 17 19:30	0°♊32'19	0.54720 AU	inferior conj	7394 Jul 28 04:30	11°♊08'52	-1°48'23
	7393 Aug 18 18:32	30°♊		minimum elong	7394 Jul 27 23:31	11°♊16'34	1°46'35
morning rise	7393 Aug 25 18:46	26°♊55'12		min. Earth dist.	7394 Jul 30 07:27	9°♊50'22	0.55312 AU
direct	7393 Aug 29 13:21	26°♊24'40		morning rise	7394 Aug 05 14:16	6°♊44'56	
	7393 Sep 08 08:44	0°♊		direct	7394 Aug 10 03:16	5°♊59'24	
morning max el	7393 Sep 11 10:40	2°♊33'10	22°46'50	morning max el	7394 Aug 23 23:51	12°♊51'45	24°32'12
asc. node	7393 Sep 26 04:11	23°♊00'47			7394 Sep 06 05:03	0°♊	
	7393 Sep 29 20:21	0°♊		asc. node	7394 Sep 13 01:10	12°♊14'36	
morning set	7393 Oct 03 21:55	8°♊20'38		morning set	7394 Sep 18 09:39	23°♊10'50	
					7394 Sep 21 13:30	0°♊	
superior conj	7393 Oct 10 22:47	23°♊24'30	1°41'37	superior conj	7394 Sep 25 07:15	8°♊10'48	1°36'30
minimum elong	7393 Oct 10 22:22	23°♊22'19	1°41'39	minimum elong	7394 Sep 25 05:49	8°♊02'59	1°36'24
max. Earth dist.	7393 Oct 14 02:24	0°♊03'14	1.33869 AU	max. Earth dist.	7394 Sep 27 04:01	12°♊13'56	1.32707 AU
	7393 Oct 14 01:47	0°♊		evening rise	7394 Oct 02 14:30	23°♊40'32	
evening rise	7393 Oct 18 19:28	9°♊35'40			7394 Oct 05 18:42	0°♊	
	7393 Oct 30 01:40	0°♊		desc. node	7394 Oct 18 04:43	21°♊47'50	
desc. node	7393 Oct 31 07:40	2°♊03'19			7394 Oct 23 17:25	0°♊	
	7393 Nov 21 02:39	0°♊		evening max el	7394 Nov 04 21:33	14°♊27'37	27°28'34
evening max el	7393 Nov 22 10:21	1°♊18'00	27°11'51	retrograde	7394 Nov 18 14:33	21°♊45'29	
retrograde	7393 Dec 05 19:58	8°♊37'41		evening set	7394 Nov 25 16:40	19°♊13'36	
evening set	7393 Dec 12 15:50	6°♊00'13		min. Earth dist.	7394 Nov 29 09:35	16°♊04'01	0.63321 AU
min. Earth dist.	7393 Dec 16 13:06	2°♊19'29	0.65019 AU	inferior conj	7394 Dec 02 02:10	13°♊23'18	-2°35'38
inferior conj	7393 Dec 18 18:25	29°♊52'14	-1°28'14	minimum elong	7394 Dec 02 06:59	13°♊11'18	2°33'42
minimum elong	7393 Dec 18 21:02	29°♊44'58	1°27'03	morning rise	7394 Dec 08 23:08	8°♊08'13	
	7393 Dec 18 15:37	30°♊		asc. node	7394 Dec 10 00:32	7°♊49'37	
asc. node	7393 Dec 23 03:30	25°♊35'12		direct	7394 Dec 11 08:09	7°♊41'13	
morning rise	7393 Dec 25 03:34	24°♊21'14		morning max el	7394 Dec 17 22:36	11°♊05'56	17°48'29
direct	7393 Dec 27 18:45	23°♊44'37			7394 Dec 30 17:12	0°♊	
morning max el	7394 Jan 03 05:19	27°♊08'58	18°00'25	morning set	7395 Jan 03 06:00	6°♊07'41	
	7394 Jan 05 18:11	0°♊		desc. node	7395 Jan 14 03:53	24°♊45'12	
morning set	7394 Jan 21 00:25	23°♊44'06					
	7394 Jan 24 19:30	0°♊		superior conj	7395 Jan 15 10:34	26°♊52'14	-0°09'14
desc. node	7394 Jan 27 06:53	4°♊03'02		minimum elong	7395 Jan 15 09:36	26°♊48'14	0°09'00
				behind sun begin	7395 Jan 15 01:40	26°♊15'28	
superior conj	7394 Feb 04 04:37	16°♊46'20	-0°54'26	behind sun end	7395 Jan 15 17:31	27°♊20'56	
minimum elong	7394 Feb 03 22:11	16°♊20'48	0°53'30		7395 Jan 17 08:19	0°♊	
max. Earth dist.	7394 Feb 07 22:04	22°♊39'50	1.45216 AU	max. Earth dist.	7395 Jan 21 15:43	6°♊57'37	1.44272 AU
	7394 Feb 12 14:34	0°♊		evening rise	7395 Jan 30 19:59	21°♊20'24	
evening rise	7394 Feb 20 09:10	12°♊02'49			7395 Feb 05 12:20	0°♊	
	7394 Mar 04 03:18	0°♊			7395 Feb 26 22:25	0°♊	
greatest brilliancy	7394 Mar 06 07:17	3°♊13'35	-0.7m	evening max el	7395 Mar 01 01:45	2°♊19'25	20°51'13
evening max el	7394 Mar 18 01:19	18°♊42'25	19°47'00	asc. node	7395 Mar 07 23:40	7°♊03'49	
asc. node	7394 Mar 21 02:37	21°♊21'51		retrograde	7395 Mar 09 10:33	7°♊14'47	
retrograde	7394 Mar 25 12:07	23°♊00'07		evening set	7395 Mar 13 12:35	5°♊39'54	
evening set	7394 Mar 29 04:53	21°♊40'10			7395 Mar 18 11:14	30°♊	
inferior conj	7394 Apr 03 14:08	15°♊41'34	3°17'01	inferior conj	7395 Mar 18 20:13	29°♊29'04	2°56'54
minimum elong	7394 Apr 03 12:48	15°♊46'02	3°16'50	minimum elong	7395 Mar 18 18:11	29°♊36'05	2°56'30
min. Earth dist.	7394 Apr 04 15:24	14°♊17'12	0.67158 AU	min. Earth dist.	7395 Mar 19 07:58	28°♊48'31	0.67948 AU
morning rise	7394 Apr 08 20:26	9°♊24'46		morning rise	7395 Mar 23 23:34	23°♊14'29	
direct	7394 Apr 14 19:41	6°♊44'55		direct	7395 Mar 29 09:30	20°♊50'27	
desc. node	7394 Apr 25 06:22	12°♊24'06		morning max el	7395 Apr 09 05:46	27°♊19'08	23°51'27
morning max el	7394 Apr 26 20:54	13°♊58'03	25°19'14		7395 Apr 11 18:00	0°♊	
	7394 May 09 21:42	0°♊		desc. node	7395 Apr 12 03:21	0°♊26'23	
	7394 May 29 02:34	6°♊51'22			7395 Apr 13 13:14	0°♊	
morning set	7394 Jun 01 23:47	6°♊51'22		morning set	7395 May 14 16:33	18°♊09'22	
max. Earth dist.	7394 Jun 05 15:49	13°♊35'49	1.36364 AU	max. Earth dist.	7395 May 18 11:40	24°♊46'06	1.38512 AU

	7395 May 21 09:35	0°♊		morning set	7396 Apr 24 06:50	28°♑11'31	
					7396 Apr 25 09:23	0°♑	
superior conj	7395 May 25 20:03	8°♊14'00 -1°21'54		max. Earth dist.	7396 Apr 29 08:48	6°♑37'13	1.40746 AU
minimum elong	7395 May 26 00:54	8°♊36'55 1°21'17					
evening rise	7395 Jun 03 21:31	25°♊48'25		superior conj	7396 May 07 04:06	20°♑12'19 -1°48'44	
asc. node	7395 Jun 03 22:48	25°♊54'41		minimum elong	7396 May 07 09:41	20°♑37'20 1°48'16	
	7395 Jun 06 01:13	0°♑			7396 May 12 12:53	0°♊	
evening max el	7395 Jun 20 05:48	22°♑18'51 18°53'16		evening rise	7396 May 17 09:28	9°♊05'13	
retrograde	7395 Jun 28 16:56	26°♑29'28		asc. node	7396 May 20 19:49	15°♊29'15	
evening set	7395 Jun 30 16:56	26°♑16'24			7396 May 29 11:26	0°♑	
inferior conj	7395 Jul 08 20:25	21°♑58'49 0°04'41		evening max el	7396 Jun 02 12:07	4°♑51'17 18°19'49	
minimum elong	7395 Jul 08 20:36	21°♑58'29 0°04'32		retrograde	7396 Jun 09 19:12	8°♑30'12	
transit middle	7395 Jul 08 20:36	21°♑58'29 0°04'32		evening set	7396 Jun 12 02:19	8°♑09'22	
transit begin	7395 Jul 08 17:01	22°♑04'52		inferior conj	7396 Jun 19 10:00	3°♑31'15 1°34'27	
transit end	7395 Jul 09 00:11	21°♑52'06		minimum elong	7396 Jun 19 12:51	3°♑25'18 1°33'27	
desc. node	7395 Jul 09 02:40	21°♑47'39		min. Earth dist.	7396 Jun 22 19:50	0°♑41'35	0.58765 AU
min. Earth dist.	7395 Jul 11 23:04	19°♑46'33 0.56755 AU			7396 Jun 23 17:24	30°♑♊	
morning rise	7395 Jul 16 20:53	16°♑58'25		desc. node	7396 Jun 24 23:43	29°♊05'52	
direct	7395 Jul 22 07:03	15°♑47'52		morning rise	7396 Jun 26 20:12	27°♊57'53	
morning max el	7395 Aug 05 14:00	23°♑12'47 26°07'40		direct	7396 Jul 03 00:33	26°♊15'50	
	7395 Aug 11 16:22	0°♏			7396 Jul 12 16:56	0°♑	
	7395 Aug 30 00:16	0°♎		morning max el	7396 Jul 17 09:44	4°♑01'41 27°17'41	
asc. node	7395 Aug 30 22:09	1°♎50'27			7396 Aug 05 10:04	0°♏	
morning set	7395 Sep 02 20:36	7°♎57'00		asc. node	7396 Aug 16 19:10	21°♏41'11	
				morning set	7396 Aug 17 05:05	22°♏33'14	
					7396 Aug 20 16:21	0°♎	
superior conj	7395 Sep 09 18:22	23°♎02'40 1°25'48					
minimum elong	7395 Sep 09 16:17	22°♎51'15 1°25'33		superior conj	7396 Aug 24 06:10	7°♎53'03 1°10'04	
max. Earth dist.	7395 Sep 10 11:48	24°♎39'02 1.31996 AU		minimum elong	7396 Aug 24 03:54	7°♎40'31 1°09'40	
	7395 Sep 12 22:17	0°♎		max. Earth dist.	7396 Aug 23 22:21	7°♎09'45 1.31730 AU	
evening rise	7395 Sep 16 17:12	8°♎06'05		evening rise	7396 Aug 31 00:57	22°♎43'44	
	7395 Sep 28 04:38	0°♎			7396 Sep 03 13:03	0°♎	
desc. node	7395 Oct 05 01:46	10°♎57'51		desc. node	7396 Sep 20 22:49	29°♎18'48	
evening max el	7395 Oct 18 04:55	27°♎01'59 27°13'31			7396 Sep 21 11:17	0°♎	
	7395 Oct 21 16:21	0°♎		evening max el	7396 Sep 29 05:39	8°♎48'43 26°24'37	
retrograde	7395 Nov 01 01:40	4°♎14'03		retrograde	7396 Oct 13 03:47	15°♎54'48	
evening set	7395 Nov 08 03:21	1°♎58'33		evening set	7396 Oct 19 19:14	14°♎06'29	
	7395 Nov 10 20:53	30°♎♎		min. Earth dist.	7396 Oct 23 19:02	11°♎31'51 0.59294 AU	
min. Earth dist.	7395 Nov 11 19:41	29°♎12'47 0.61370 AU		inferior conj	7396 Oct 27 00:01	9°♎04'20 -4°43'05	
inferior conj	7395 Nov 14 21:14	26°♎30'52 -3°43'00		minimum elong	7396 Oct 27 06:48	8°♎51'17 4°41'34	
minimum elong	7395 Nov 15 03:50	26°♎16'16 3°40'51		morning rise	7396 Nov 03 20:35	4°♎30'28	
morning rise	7395 Nov 22 06:30	21°♎34'53		direct	7396 Nov 06 03:15	4°♎12'16	
direct	7395 Nov 24 12:25	21°♎13'52		asc. node	7396 Nov 12 18:34	6°♎56'41	
asc. node	7395 Nov 26 21:32	21°♎38'22		morning max el	7396 Nov 14 00:09	8°♎03'00 18°20'50	
morning max el	7395 Dec 01 14:02	24°♎47'19 17°54'49			7396 Nov 28 02:43	0°♎	
	7395 Dec 05 20:50	0°♎		morning set	7396 Nov 29 21:23	3°♎22'43	
morning set	7395 Dec 17 06:56	19°♎26'34					
	7395 Dec 23 02:41	0°♎		superior conj	7396 Dec 09 01:38	20°♎40'28 1°02'08	
superior conj	7395 Dec 27 18:30	8°♎13'15 0°30'55		minimum elong	7396 Dec 09 05:11	20°♎56'46 1°01'45	
minimum elong	7395 Dec 27 21:03	8°♎24'18 0°30'37			7396 Dec 14 06:33	0°♎	
desc. node	7396 Jan 01 00:55	15°♎30'58		max. Earth dist.	7396 Dec 16 14:58	4°♎04'14 1.40766 AU	
max. Earth dist.	7396 Jan 04 05:38	20°♎49'57 1.42732 AU		desc. node	7396 Dec 17 21:57	6°♎16'09	
	7396 Jan 09 22:05	0°♎		evening rise	7396 Dec 21 03:56	11°♎34'26	
evening rise	7396 Jan 10 14:36	1°♎05'15			7397 Jan 01 20:27	0°♎	
	7396 Jan 30 01:15	0°♎		evening max el	7397 Jan 24 12:27	29°♎40'45 23°25'20	
evening max el	7396 Feb 11 21:03	15°♎58'39 22°05'39			7397 Jan 24 20:12	0°♎	
retrograde	7396 Feb 21 07:41	21°♎34'39		retrograde	7397 Feb 04 02:11	5°♎55'39	
asc. node	7396 Feb 22 20:42	21°♎22'24		asc. node	7397 Feb 08 17:45	4°♎09'00	
evening set	7396 Feb 25 20:25	19°♎44'32		evening set	7397 Feb 09 02:52	3°♎50'27	
inferior conj	7396 Mar 02 04:25	13°♎24'16 2°27'12			7397 Feb 12 14:42	30°♎♎	
minimum elong	7396 Mar 02 02:07	13°♎32'16 2°26'35		min. Earth dist.	7397 Feb 14 00:29	28°♎06'32 0.68264 AU	
min. Earth dist.	7396 Mar 02 03:45	13°♎26'32 0.68314 AU		inferior conj	7397 Feb 14 12:48	27°♎24'14 1°48'56	
morning rise	7396 Mar 07 07:38	7°♎13'28		minimum elong	7397 Feb 14 10:42	27°♎31'28 1°48'15	
direct	7396 Mar 12 03:25	5°♎10'20		morning rise	7397 Feb 19 18:29	21°♎18'39	
morning max el	7396 Mar 21 16:33	10°♎47'17 22°22'13		direct	7397 Feb 24 00:18	19°♎38'14	
desc. node	7396 Mar 29 00:22	19°♎19'33		morning max el	7397 Mar 04 09:02	24°♎26'44 20°59'46	
	7396 Apr 05 20:10	0°♑			7397 Mar 09 06:34	0°♎	

desc. node	7397 Mar 15 21:23	8° $\text{X}$ 49'39		morning set	7398 Mar 13 15:21	15° $\text{X}$ 17'07	
	7397 Mar 30 05:31	0° $\text{Y}$			7398 Mar 23 01:52	0° $\text{Y}$	
morning set	7397 Apr 03 18:14	7° $\text{Y}$ 00'58		max. Earth dist.	7398 Mar 24 23:46	3° $\text{Y}$ 01'53	1.44328 AU
max. Earth dist.	7397 Apr 11 12:49	19° $\text{Y}$ 25'33	1.42770 AU				
	7397 Apr 17 21:42	0° $\text{Z}$		superior conj	7398 Mar 29 23:36	11° $\text{Y}$ 02'34	-2°10'20
				minimum elong	7398 Mar 29 21:33	10° $\text{Y}$ 54'19	2°10'19
superior conj	7397 Apr 18 14:21	1° $\text{Z}$ 10'34	-2°06'53		7398 Apr 10 09:51	0° $\text{Z}$	
minimum elong	7397 Apr 18 18:00	1° $\text{Z}$ 26'04	2°06'46	evening rise	7398 Apr 12 09:42	3° $\text{Z}$ 23'12	
evening rise	7397 Apr 30 07:06	21° $\text{Z}$ 40'22		asc. node	7398 Apr 24 13:56	23° $\text{Z}$ 31'21	
	7397 May 04 23:17	0° $\text{II}$			7398 Apr 29 10:40	0° $\text{II}$	
asc. node	7397 May 07 16:52	4° $\text{II}$ 43'55		evening max el	7398 Apr 30 12:47	1° $\text{II}$ 09'02	18°11'29
evening max el	7397 May 16 23:35	17° $\text{II}$ 51'08	18°06'06	retrograde	7398 May 06 22:12	4° $\text{II}$ 31'36	
retrograde	7397 May 23 14:30	21° $\text{II}$ 14'30		evening set	7398 May 09 19:32	3° $\text{II}$ 47'55	
evening set	7397 May 26 04:54	20° $\text{II}$ 43'08			7398 May 14 12:11	30° $\text{R}$ $\text{Z}$	
inferior conj	7397 Jun 01 19:41	15° $\text{II}$ 44'39	2°35'13	inferior conj	7398 May 15 21:28	28° $\text{Z}$ 30'38	3°10'15
minimum elong	7397 Jun 01 22:43	15° $\text{II}$ 37'18	2°34'24	minimum elong	7398 May 15 23:24	28° $\text{Z}$ 25'19	3°09'53
min. Earth dist.	7397 Jun 05 00:10	12° $\text{II}$ 40'48	0.60999 AU	min. Earth dist.	7398 May 18 13:36	25° $\text{Z}$ 35'53	0.63158 AU
morning rise	7397 Jun 08 14:13	9° $\text{II}$ 47'53		morning rise	7398 May 22 01:53	22° $\text{Z}$ 20'40	
desc. node	7397 Jun 11 20:45	8° $\text{II}$ 09'00		direct	7398 May 28 20:48	19° $\text{Z}$ 44'30	
direct	7397 Jun 15 05:47	7° $\text{II}$ 34'57		desc. node	7398 May 29 17:47	19° $\text{Z}$ 46'54	
morning max el	7397 Jun 29 12:22	15° $\text{II}$ 33'27	27°52'05	morning max el	7398 Jun 11 20:07	27° $\text{Z}$ 46'59	27°48'16
	7397 Jul 11 06:51	0° $\text{S}$			7398 Jun 13 22:50	0° $\text{II}$	
	7397 Jul 28 23:03	0° $\text{Q}$			7398 Jul 05 00:58	0° $\text{S}$	
morning set	7397 Aug 01 09:18	6° $\text{Q}$ 54'19		morning set	7398 Jul 16 07:00	20° $\text{S}$ 53'25	
asc. node	7397 Aug 03 16:11	11° $\text{Q}$ 41'37			7398 Jul 20 17:03	0° $\text{Q}$	
max. Earth dist.	7397 Aug 07 07:50	19° $\text{Q}$ 34'39	1.31910 AU	max. Earth dist.	7398 Jul 21 12:05	1° $\text{Q}$ 40'50	1.32548 AU
				asc. node	7398 Jul 21 13:12	1° $\text{Q}$ 46'50	
superior conj	7397 Aug 08 16:57	22° $\text{Q}$ 36'28	0°49'43				
minimum elong	7397 Aug 08 14:58	22° $\text{Q}$ 25'36	0°49'17	superior conj	7398 Jul 24 00:50	7° $\text{Q}$ 06'59	0°25'14
	7397 Aug 12 01:25	0° $\text{P}$		minimum elong	7398 Jul 23 23:39	7° $\text{Q}$ 00'39	0°24'55
evening rise	7397 Aug 15 11:40	7° $\text{P}$ 26'58		evening rise	7398 Jul 30 23:22	22° $\text{Q}$ 09'28	
	7397 Aug 27 03:22	0° $\text{U}$			7398 Aug 03 17:46	0° $\text{P}$	
desc. node	7397 Sep 07 19:52	16° $\text{U}$ 31'08			7398 Aug 23 07:45	0° $\text{U}$	
evening max el	7397 Sep 10 22:15	19° $\text{U}$ 44'45	25°06'03	evening max el	7398 Aug 23 09:53	0° $\text{U}$ 05'10	23°29'55
retrograde	7397 Sep 24 19:25	26° $\text{U}$ 45'19		desc. node	7398 Aug 25 16:54	2° $\text{U}$ 08'21	
evening set	7397 Sep 30 11:41	25° $\text{U}$ 32'00		retrograde	7398 Sep 05 23:11	6° $\text{U}$ 52'35	
min. Earth dist.	7397 Oct 05 09:41	22° $\text{U}$ 50'24	0.57303 AU	evening set	7398 Sep 10 04:27	6° $\text{U}$ 13'34	
inferior conj	7397 Oct 08 07:23	20° $\text{U}$ 54'23	-5°23'13	min. Earth dist.	7398 Sep 16 19:40	3° $\text{U}$ 06'31	0.55695 AU
minimum elong	7397 Oct 08 10:56	20° $\text{U}$ 48'26	5°22'53	inferior conj	7398 Sep 18 18:38	1° $\text{U}$ 56'55	-5°25'32
morning rise	7397 Oct 16 12:27	16° $\text{U}$ 43'39		minimum elong	7398 Sep 18 15:20	2° $\text{U}$ 01'49	5°25'17
direct	7397 Oct 19 00:17	16° $\text{U}$ 25'36			7398 Sep 22 05:11	30° $\text{R}$ $\text{P}$	
morning max el	7397 Oct 28 01:25	20° $\text{U}$ 43'23	19°08'15	morning rise	7398 Sep 27 04:29	28° $\text{P}$ 03'57	
asc. node	7397 Oct 30 15:37	23° $\text{U}$ 31'26		direct	7398 Sep 30 01:38	27° $\text{P}$ 43'38	
	7397 Nov 04 05:56	0° $\text{M}$			7398 Oct 07 05:54	0° $\text{U}$	
morning set	7397 Nov 13 21:06	17° $\text{M}$ 43'58		morning max el	7398 Oct 10 14:52	2° $\text{U}$ 39'35	20°18'01
	7397 Nov 20 01:35	0° $\text{X}$		asc. node	7398 Oct 17 12:39	11° $\text{U}$ 07'14	
					7398 Oct 27 23:09	0° $\text{M}$	
superior conj	7397 Nov 22 02:52	3° $\text{X}$ 59'41	1°23'49	morning set	7398 Oct 29 03:00	2° $\text{M}$ 21'45	
minimum elong	7397 Nov 22 05:51	4° $\text{X}$ 14'02	1°23'36				
max. Earth dist.	7397 Nov 28 20:43	16° $\text{X}$ 35'43	1.38615 AU	superior conj	7398 Nov 05 17:22	17° $\text{M}$ 57'07	1°36'40
evening rise	7397 Dec 02 15:28	23° $\text{X}$ 16'46		minimum elong	7398 Nov 05 19:05	18° $\text{M}$ 05'44	1°36'39
desc. node	7397 Dec 04 18:58	26° $\text{X}$ 57'15		max. Earth dist.	7398 Nov 11 03:12	28° $\text{M}$ 36'08	1.36531 AU
	7397 Dec 06 14:35	0° $\text{S}$			7398 Nov 11 20:49	0° $\text{X}$	
	7397 Dec 26 16:27	0° $\text{W}$		evening rise	7398 Nov 14 23:29	5° $\text{X}$ 47'24	
evening max el	7398 Jan 07 01:41	13° $\text{W}$ 25'30	24°44'01	desc. node	7398 Nov 21 15:59	17° $\text{X}$ 30'25	
retrograde	7398 Jan 18 16:54	20° $\text{W}$ 12'32			7398 Nov 29 11:19	0° $\text{S}$	
evening set	7398 Jan 24 06:20	17° $\text{W}$ 53'32		evening max el	7398 Dec 20 14:35	27° $\text{S}$ 11'49	25°54'41
asc. node	7398 Jan 26 14:50	15° $\text{W}$ 30'17			7398 Dec 23 17:27	0° $\text{W}$	
min. Earth dist.	7398 Jan 28 19:55	12° $\text{W}$ 43'51	0.67825 AU	retrograde	7399 Jan 02 02:56	4° $\text{W}$ 20'11	
inferior conj	7398 Jan 29 19:33	11° $\text{W}$ 25'31	1°02'43	evening set	7399 Jan 08 05:10	1° $\text{W}$ 50'13	
minimum elong	7398 Jan 29 18:07	11° $\text{W}$ 30'16	1°02'13		7399 Jan 10 03:19	30° $\text{R}$ $\text{S}$	
morning rise	7398 Feb 04 06:06	5° $\text{W}$ 26'40		min. Earth dist.	7399 Jan 12 11:52	27° $\text{S}$ 15'02	0.67014 AU
direct	7398 Feb 07 22:54	4° $\text{W}$ 08'08		asc. node	7399 Jan 13 11:54	25° $\text{S}$ 59'45	
morning max el	7398 Feb 15 09:18	8° $\text{W}$ 18'16	19°49'24	inferior conj	7399 Jan 13 22:48	25° $\text{S}$ 25'25	0°09'08
greatest brilliancy	7398 Feb 28 07:17	25° $\text{W}$ 07'44	-0.6m	minimum elong	7399 Jan 13 22:33	25° $\text{S}$ 26'11	0°09'07
desc. node	7398 Mar 02 18:22	28° $\text{W}$ 46'05		transit middle	7399 Jan 13 22:33	25° $\text{S}$ 26'11	0°09'07
	7398 Mar 03 14:10	0° $\text{X}$		transit begin	7399 Jan 13 20:13	25° $\text{S}$ 33'32	



transit end	7399 Jan 14 00:54	25° $\text{♁}$ 18'50		asc. node	7399 Dec 31 08:57	6° $\text{♁}$ 30'32	
morning rise	7399 Jan 19 16:30	19° $\text{♁}$ 35'12		morning rise	7400 Jan 03 23:24	3° $\text{♁}$ 39'37	
direct	7399 Jan 22 21:50	18° $\text{♁}$ 35'48		direct	7400 Jan 06 19:09	2° $\text{♁}$ 55'45	
morning max el	7399 Jan 29 17:12	22° $\text{♁}$ 19'34	18°54'03	morning max el	7400 Jan 13 06:50	6° $\text{♁}$ 24'22	18°15'05
	7399 Feb 05 00:02	0° $\text{♁}$			7400 Jan 29 14:36	0° $\text{♁}$	
desc. node	7399 Feb 17 15:21	19° $\text{♁}$ 02'00		morning set	7400 Feb 01 09:18	4° $\text{♁}$ 29'14	
morning set	7399 Feb 20 22:40	24° $\text{♁}$ 11'07		desc. node	7400 Feb 04 12:19	9° $\text{♁}$ 31'24	
	7399 Feb 24 16:05	0° $\text{♁}$					
max. Earth dist.	7399 Mar 07 15:57	17° $\text{♁}$ 11'32	1.45253 AU	superior conj	7400 Feb 16 15:44	28° $\text{♁}$ 48'22	-1°19'35
				minimum elong	7400 Feb 16 06:48	28° $\text{♁}$ 13'17	1°18'30
superior conj	7399 Mar 09 11:21	20° $\text{♁}$ 01'58	-1°54'14		7400 Feb 17 09:59	0° $\text{♁}$	
minimum elong	7399 Mar 09 02:59	19° $\text{♁}$ 29'05	1°53'38	max. Earth dist.	7400 Feb 18 11:12	1° $\text{♁}$ 38'49	1.45452 AU
	7399 Mar 15 18:33	0° $\text{♁}$		evening rise	7400 Mar 04 18:23	23° $\text{♁}$ 58'45	
evening rise	7399 Mar 24 13:29	14° $\text{♁}$ 07'48			7400 Mar 08 14:56	0° $\text{♁}$	
	7399 Apr 03 09:22	0° $\text{♁}$		greatest brilliancy	7400 Mar 16 05:43	11° $\text{♁}$ 47'09	-0.7m
asc. node	7399 Apr 11 10:59	11° $\text{♁}$ 42'58		evening max el	7400 Mar 28 09:34	28° $\text{♁}$ 13'04	19°16'19
evening max el	7399 Apr 14 00:53	14° $\text{♁}$ 38'16	18°35'14	asc. node	7400 Mar 29 08:02	29° $\text{♁}$ 07'31	
retrograde	7399 Apr 20 13:55	18° $\text{♁}$ 13'06			7400 Mar 30 08:19	0° $\text{♁}$	
evening set	7399 Apr 23 18:19	17° $\text{♁}$ 15'54		retrograde	7400 Apr 04 10:16	2° $\text{♁}$ 11'52	
inferior conj	7399 Apr 29 11:17	11° $\text{♁}$ 41'26	3°24'50	evening set	7400 Apr 07 22:18	1° $\text{♁}$ 00'19	
minimum elong	7399 Apr 29 11:48	11° $\text{♁}$ 39'52	3°24'44		7400 Apr 09 04:47	30° $\text{♁}$	
min. Earth dist.	7399 May 01 12:19	9° $\text{♁}$ 13'56	0.65037 AU	inferior conj	7400 Apr 13 09:35	25° $\text{♁}$ 10'07	3°23'34
morning rise	7399 May 05 04:33	5° $\text{♁}$ 25'41		minimum elong	7400 Apr 13 08:50	25° $\text{♁}$ 12'34	3°23'29
direct	7399 May 11 19:45	2° $\text{♁}$ 38'28		min. Earth dist.	7400 Apr 14 19:15	23° $\text{♁}$ 21'09	0.66515 AU
desc. node	7399 May 16 14:48	3° $\text{♁}$ 51'25		morning rise	7400 Apr 18 18:59	18° $\text{♁}$ 53'09	
morning max el	7399 May 25 06:10	10° $\text{♁}$ 33'00	27°10'00	direct	7400 Apr 25 01:12	16° $\text{♁}$ 07'31	
	7399 Jun 09 14:25	0° $\text{♁}$		desc. node	7400 May 03 11:48	19° $\text{♁}$ 51'25	
	7399 Jun 27 12:19	0° $\text{♁}$		morning max el	7400 May 07 16:10	23° $\text{♁}$ 39'31	26°05'00
morning set	7399 Jun 29 19:22	4° $\text{♁}$ 22'44			7400 May 13 07:41	0° $\text{♁}$	
max. Earth dist.	7399 Jul 04 07:26	13° $\text{♁}$ 19'56	1.33667 AU		7400 Jun 02 23:16	0° $\text{♁}$	
				morning set	7400 Jun 12 18:47	17° $\text{♁}$ 12'08	
superior conj	7399 Jul 08 03:46	21° $\text{♁}$ 19'00	-0°02'45	max. Earth dist.	7400 Jun 16 15:53	24° $\text{♁}$ 33'06	1.35260 AU
minimum elong	7399 Jul 08 03:54	21° $\text{♁}$ 19'46	0°02'49		7400 Jun 19 10:30	0° $\text{♁}$	
behind sun begin	7399 Jul 07 22:23	20° $\text{♁}$ 50'43					
behind sun end	7399 Jul 08 09:25	21° $\text{♁}$ 48'51		superior conj	7400 Jun 21 23:16	5° $\text{♁}$ 05'44	-0°33'10
asc. node	7399 Jul 08 10:13	21° $\text{♁}$ 53'01		minimum elong	7400 Jun 22 01:11	5° $\text{♁}$ 15'26	0°32'53
	7399 Jul 12 05:46	0° $\text{♁}$		asc. node	7400 Jun 25 07:13	11° $\text{♁}$ 56'21	
evening rise	7399 Jul 15 10:12	6° $\text{♁}$ 45'49		evening rise	7400 Jun 29 18:08	21° $\text{♁}$ 10'16	
	7399 Jul 27 20:04	0° $\text{♁}$			7400 Jul 04 03:30	0° $\text{♁}$	
evening max el	7399 Aug 05 00:44	10° $\text{♁}$ 23'27	21°52'33	evening max el	7400 Jul 18 02:24	21° $\text{♁}$ 11'39	20°27'36
desc. node	7399 Aug 12 13:57	15° $\text{♁}$ 38'20		retrograde	7400 Jul 29 03:29	26° $\text{♁}$ 38'24	
retrograde	7399 Aug 17 15:17	16° $\text{♁}$ 38'46		desc. node	7400 Jul 30 11:00	26° $\text{♁}$ 34'05	
evening set	7399 Aug 20 10:08	16° $\text{♁}$ 21'24		evening set	7400 Jul 31 03:33	26° $\text{♁}$ 28'26	
min. Earth dist.	7399 Aug 29 04:40	12° $\text{♁}$ 34'50	0.54810 AU	inferior conj	7400 Aug 09 08:13	22° $\text{♁}$ 31'15	-2°56'01
inferior conj	7399 Aug 29 14:49	12° $\text{♁}$ 20'37	-4°34'48	minimum elong	7400 Aug 09 00:18	22° $\text{♁}$ 42'43	2°53'21
minimum elong	7399 Aug 29 05:53	12° $\text{♁}$ 33'07	4°32'47	min. Earth dist.	7400 Aug 10 14:54	21° $\text{♁}$ 46'48	0.54857 AU
morning rise	7399 Sep 07 02:59	8° $\text{♁}$ 31'07		morning rise	7400 Aug 17 20:21	18° $\text{♁}$ 25'31	
direct	7399 Sep 10 12:56	8° $\text{♁}$ 05'26		direct	7400 Aug 21 22:35	17° $\text{♁}$ 49'29	
morning max el	7399 Sep 22 15:37	13° $\text{♁}$ 47'31	21°48'16	morning max el	7400 Sep 04 07:00	24° $\text{♁}$ 17'27	23°31'47
asc. node	7399 Oct 04 09:39	29° $\text{♁}$ 29'48			7400 Sep 09 12:13	0° $\text{♁}$	
	7399 Oct 04 16:40	0° $\text{♁}$		asc. node	7400 Sep 21 06:38	18° $\text{♁}$ 28'03	
morning set	7399 Oct 13 12:38	17° $\text{♁}$ 08'32			7400 Sep 27 01:26	0° $\text{♁}$	
	7399 Oct 19 14:28	0° $\text{♁}$		morning set	7400 Sep 28 00:06	1° $\text{♁}$ 59'22	
superior conj	7399 Oct 20 17:08	2° $\text{♁}$ 20'15	1°41'48	superior conj	7400 Oct 04 23:08	17° $\text{♁}$ 00'28	1°40'10
minimum elong	7399 Oct 20 17:27	2° $\text{♁}$ 21'55	1°41'50	minimum elong	7400 Oct 04 22:15	16° $\text{♁}$ 55'42	1°40'09
max. Earth dist.	7399 Oct 24 15:49	10° $\text{♁}$ 28'39	1.34727 AU	max. Earth dist.	7400 Oct 07 13:07	22° $\text{♁}$ 32'03	1.33323 AU
evening rise	7399 Oct 29 00:06	19° $\text{♁}$ 02'36			7400 Oct 11 03:17	0° $\text{♁}$	
	7399 Nov 03 22:57	0° $\text{♁}$		evening rise	7400 Oct 12 13:28	2° $\text{♁}$ 52'25	
desc. node	7399 Nov 08 13:00	7° $\text{♁}$ 50'02		desc. node	7400 Oct 26 10:03	27° $\text{♁}$ 49'55	
	7399 Nov 23 14:03	0° $\text{♁}$			7400 Oct 27 18:51	0° $\text{♁}$	
evening max el	7399 Dec 03 03:46	10° $\text{♁}$ 52'53	26°50'00	evening max el	7400 Nov 15 16:22	24° $\text{♁}$ 18'10	27°22'36
retrograde	7399 Dec 16 07:23	18° $\text{♁}$ 10'53			7400 Nov 23 06:47	0° $\text{♁}$	
evening set	7399 Dec 22 21:23	15° $\text{♁}$ 34'34		retrograde	7400 Nov 29 05:29	1° $\text{♁}$ 36'55	
min. Earth dist.	7399 Dec 26 21:59	11° $\text{♁}$ 34'00	0.65845 AU		7400 Dec 04 17:31	30° $\text{♁}$	
inferior conj	7399 Dec 28 20:26	9° $\text{♁}$ 18'45	-0°51'04	evening set	7400 Dec 06 04:39	29° $\text{♁}$ 00'59	
minimum elong	7399 Dec 28 21:53	9° $\text{♁}$ 14'30	0°50'21	min. Earth dist.	7400 Dec 09 23:58	25° $\text{♁}$ 33'53	0.64336 AU

inferior conj	7400 Dec 12 10:04	23°♊00'01	-1°56'30	min. Earth dist.	7401 Nov 22 15:55	9°♊04'44	0.62520 AU
minimum elong	7400 Dec 12 13:37	22°♊50'36	1°54'58	inferior conj	7401 Nov 25 12:48	6°♊21'53	-3°04'32
asc. node	7400 Dec 18 05:59	17°♊56'50		minimum elong	7401 Nov 25 18:29	6°♊08'25	3°02'25
morning rise	7400 Dec 19 00:05	17°♊35'06		morning rise	7401 Dec 02 15:01	1°♊14'39	
direct	7400 Dec 21 12:24	17°♊02'54		direct	7401 Dec 04 22:27	0°♊50'30	
morning max el	7400 Dec 27 23:37	20°♊26'12	17°53'09	asc. node	7401 Dec 05 03:00	0°♊50'40	
	7401 Jan 04 05:34	0°♊		morning max el	7401 Dec 11 16:31	4°♊17'32	17°48'57
morning set	7401 Jan 14 00:49	16°♊12'41		morning set	7401 Dec 27 15:25	29°♊02'18	
desc. node	7401 Jan 22 09:18	0°♊10'08			7401 Dec 28 04:25	0°♊	
	7401 Jan 22 06:50	0°♊					
superior conj	7401 Jan 27 08:23	8°♊14'50	-0°35'04	superior conj	7402 Jan 08 01:24	18°♊53'09	0°08'46
minimum elong	7401 Jan 27 04:20	7°♊58'30	0°34'24	minimum elong	7402 Jan 08 02:15	18°♊56'45	0°08'43
max. Earth dist.	7401 Feb 01 06:43	16°♊06'59	1.44906 AU	behind sun begin	7402 Jan 07 18:39	18°♊24'43	
	7401 Feb 10 04:12	0°♊		behind sun end	7402 Jan 08 09:51	19°♊28'42	
evening rise	7401 Feb 12 07:58	3°♊19'09		desc. node	7402 Jan 09 06:19	20°♊54'29	
greatest brilliancy	7401 Feb 27 01:35	25°♊31'01	-0.6m		7402 Jan 14 19:05	0°♊	
	7401 Mar 02 04:21	0°♊		max. Earth dist.	7402 Jan 14 23:27	0°♊17'39	1.43679 AU
evening max el	7401 Mar 11 13:14	11°♊49'58	20°12'48	evening rise	7402 Jan 22 20:21	12°♊44'29	
asc. node	7401 Mar 16 05:05	15°♊31'38			7402 Feb 03 06:24	0°♊	
retrograde	7401 Mar 19 08:33	16°♊22'31		evening max el	7402 Feb 22 11:22	25°♊28'09	21°21'50
evening set	7401 Mar 23 05:13	14°♊56'04			7402 Feb 28 09:04	0°♊	
inferior conj	7401 Mar 28 13:31	8°♊52'00	3°09'43	retrograde	7402 Mar 03 06:45	0°♊40'49	
minimum elong	7401 Mar 28 11:50	8°♊57'43	3°09'27	asc. node	7402 Mar 03 02:08	0°♊40'38	
min. Earth dist.	7401 Mar 29 08:50	7°♊46'27	0.67554 AU		7402 Mar 06 00:11	30°♊	
morning rise	7401 Apr 02 18:14	2°♊36'12		evening set	7402 Mar 07 13:14	28°♊59'16	
direct	7401 Apr 08 12:02	0°♊02'24		inferior conj	7402 Mar 12 20:46	22°♊43'48	2°45'26
morning max el	7401 Apr 20 01:15	6°♊57'11	24°42'40	minimum elong	7402 Mar 12 18:34	22°♊51'26	2°44'55
desc. node	7401 Apr 20 08:47	7°♊16'25		min. Earth dist.	7402 Mar 13 03:02	22°♊22'03	0.68153 AU
	7401 May 07 23:29	0°♊		morning rise	7402 Mar 17 23:45	16°♊30'45	
morning set	7401 May 26 00:20	29°♊07'39		direct	7402 Mar 23 03:36	14°♊15'29	
	7401 May 26 12:10	0°♊		morning max el	7402 Apr 02 10:45	20°♊22'28	23°13'14
max. Earth dist.	7401 May 29 15:11	5°♊37'43	1.37256 AU	desc. node	7402 Apr 07 05:47	25°♊43'00	
					7402 Apr 10 15:49	0°♊	
superior conj	7401 Jun 05 08:11	18°♊17'58	-1°04'27		7402 May 01 04:39	0°♊	
minimum elong	7401 Jun 05 12:03	18°♊36'45	1°03'54	morning set	7402 May 07 06:28	9°♊55'29	
	7401 Jun 11 05:52	0°♊		max. Earth dist.	7402 May 11 11:11	17°♊04'34	1.39472 AU
asc. node	7401 Jun 12 04:13	1°♊52'06			7402 May 18 16:34	0°♊	
evening rise	7401 Jun 13 20:44	5°♊14'58		superior conj	7402 May 19 02:39	0°♊46'33	-1°34'00
	7401 Jun 28 06:18	0°♊		minimum elong	7402 May 19 08:01	1°♊11'25	1°33'24
evening max el	7401 Jun 30 16:59	2°♊42'22	19°21'40	evening rise	7402 May 28 15:07	18°♊52'25	
retrograde	7401 Jul 10 01:08	7°♊18'30		asc. node	7402 May 30 01:15	21°♊36'12	
evening set	7401 Jul 11 22:28	7°♊08'01			7402 Jun 03 13:06	0°♊	
desc. node	7401 Jul 17 08:03	4°♊59'39		evening max el	7402 Jun 13 18:34	14°♊54'46	18°36'28
inferior conj	7401 Jul 20 13:02	3°♊00'02	-0°58'33	retrograde	7402 Jun 21 16:33	18°♊50'21	
minimum elong	7401 Jul 20 10:26	3°♊04'18	0°57'37	evening set	7402 Jun 23 19:15	18°♊34'30	
min. Earth dist.	7401 Jul 23 03:55	1°♊17'42	0.55837 AU	inferior conj	7402 Jul 01 14:08	14°♊08'14	0°46'16
	7401 Jul 25 07:33	30°♊		minimum elong	7402 Jul 01 15:49	14°♊05'02	0°45'35
morning rise	7401 Jul 28 19:41	28°♊21'14		desc. node	7402 Jul 04 05:06	12°♊07'53	
direct	7401 Aug 02 17:36	27°♊26'26		min. Earth dist.	7402 Jul 04 21:35	11°♊37'27	0.57561 AU
	7401 Aug 11 00:03	0°♊		morning rise	7402 Jul 09 08:54	8°♊52'26	
morning max el	7401 Aug 16 19:49	4°♊33'17	25°15'06	direct	7402 Jul 15 03:10	7°♊29'08	
	7401 Sep 04 00:21	0°♊		morning max el	7402 Jul 29 12:16	15°♊04'35	26°41'21
asc. node	7401 Sep 08 03:38	7°♊52'11			7402 Aug 10 12:56	0°♊	
morning set	7401 Sep 12 11:42	16°♊48'32		asc. node	7402 Aug 26 00:38	27°♊35'05	
	7401 Sep 18 13:01	0°♊			7402 Aug 27 04:31	0°♊	
				morning set	7402 Aug 27 21:50	1°♊31'15	
superior conj	7401 Sep 19 08:57	1°♊49'39	1°32'36				
minimum elong	7401 Sep 19 07:12	1°♊40'02	1°32'27	superior conj	7402 Sep 03 20:35	16°♊41'35	1°19'42
max. Earth dist.	7401 Sep 20 17:55	4°♊50'16	1.32353 AU	minimum elong	7402 Sep 03 18:23	16°♊29'21	1°19'23
evening rise	7401 Sep 26 12:05	17°♊06'46		max. Earth dist.	7402 Sep 04 03:17	17°♊18'39	1.31826 AU
	7401 Oct 03 01:31	0°♊			7402 Sep 09 22:43	0°♊	
desc. node	7401 Oct 13 07:07	17°♊21'13		evening rise	7402 Sep 10 17:12	1°♊37'59	
	7401 Oct 22 10:56	0°♊			7402 Sep 26 00:44	0°♊	
evening max el	7401 Oct 29 02:15	7°♊14'04	27°26'13	desc. node	7402 Sep 30 04:10	6°♊12'25	
retrograde	7401 Nov 11 20:47	14°♊29'09		evening max el	7402 Oct 11 06:49	19°♊28'08	26°56'41
evening set	7401 Nov 18 23:55	12°♊02'43		retrograde	7402 Oct 25 04:24	26°♊38'18	

evening set	7402 Nov 01 03:14	24° $\mathbb{M}$ 32'42		evening max el	7403 Sep 23 04:05	0° $\mathbb{M}$ 53'35	25°54'23
min. Earth dist.	7402 Nov 04 21:11	21° $\mathbb{M}$ 53'52	0.60487 AU	retrograde	7403 Oct 07 02:46	7° $\mathbb{M}$ 58'12	
inferior conj	7402 Nov 08 01:20	19° $\mathbb{M}$ 15'41	-4°10'02	evening set	7403 Oct 13 09:46	6° $\mathbb{M}$ 24'20	
minimum elong	7402 Nov 08 08:19	19° $\mathbb{M}$ 01'07	4°08'02	min. Earth dist.	7403 Oct 17 16:48	3° $\mathbb{M}$ 48'51	0.58412 AU
morning rise	7402 Nov 15 15:41	14° $\mathbb{M}$ 29'13		inferior conj	7403 Oct 20 20:15	1° $\mathbb{M}$ 32'34	-5°03'35
direct	7402 Nov 17 21:21	14° $\mathbb{M}$ 09'50		minimum elong	7403 Oct 21 02:10	1° $\mathbb{M}$ 21'49	5°02'34
asc. node	7402 Nov 22 00:03	15° $\mathbb{M}$ 18'40			7403 Oct 23 00:45	30° $\mathbb{R}$ $\frac{1}{2}$	
morning max el	7402 Nov 25 06:12	17° $\mathbb{M}$ 49'25	18°03'29	morning rise	7403 Oct 28 20:52	27° $\frac{1}{2}$ 08'39	
	7402 Dec 03 23:10	0° $\mathbb{X}$		direct	7403 Oct 31 04:58	26° $\frac{1}{2}$ 50'58	
morning set	7402 Dec 10 22:40	12° $\mathbb{X}$ 38'24			7403 Nov 07 14:00	0° $\mathbb{M}$	
	7402 Dec 20 09:51	0° $\mathbb{Z}$		morning max el	7403 Nov 08 13:05	0° $\mathbb{M}$ 52'24	18°38'18
				asc. node	7403 Nov 08 21:06	1° $\mathbb{M}$ 12'04	
superior conj	7402 Dec 20 19:46	0° $\mathbb{Z}$ 44'07	0°45'19	morning set	7403 Nov 24 17:33	26° $\mathbb{M}$ 47'03	
minimum elong	7402 Dec 20 23:00	0° $\mathbb{Z}$ 58'30	0°44'57		7403 Nov 26 09:14	0° $\mathbb{X}$	
desc. node	7402 Dec 27 03:20	11° $\mathbb{Z}$ 40'25					
max. Earth dist.	7402 Dec 28 11:03	13° $\mathbb{Z}$ 53'37	1.41923 AU	superior conj	7403 Dec 03 11:16	13° $\mathbb{X}$ 35'46	1°12'27
evening rise	7403 Jan 02 21:55	22° $\mathbb{Z}$ 48'35		minimum elong	7403 Dec 03 14:43	13° $\mathbb{X}$ 51'54	1°12'08
	7403 Jan 07 11:24	0° $\approx$		max. Earth dist.	7403 Dec 10 18:05	26° $\mathbb{X}$ 48'04	1.39855 AU
	7403 Jan 28 08:48	0° $\mathbb{H}$			7403 Dec 12 14:23	0° $\mathbb{Z}$	
evening max el	7403 Feb 05 04:39	9° $\mathbb{H}$ 07'59	22°39'16	desc. node	7403 Dec 14 00:21	2° $\mathbb{Z}$ 24'49	
retrograde	7403 Feb 15 03:05	15° $\mathbb{H}$ 01'53		evening rise	7403 Dec 14 20:44	3° $\mathbb{Z}$ 50'48	
asc. node	7403 Feb 17 23:13	14° $\mathbb{H}$ 20'52			7403 Dec 31 16:22	0° $\approx$	
evening set	7403 Feb 19 20:41	13° $\mathbb{H}$ 05'17		evening max el	7404 Jan 18 18:57	22° $\approx$ 51'47	23°59'23
inferior conj	7403 Feb 25 05:17	6° $\mathbb{H}$ 41'46	2°12'01	retrograde	7404 Jan 29 20:08	29° $\approx$ 21'40	
minimum elong	7403 Feb 25 03:01	6° $\mathbb{H}$ 49'40	2°11'21	evening set	7404 Feb 04 02:03	27° $\approx$ 10'39	
min. Earth dist.	7403 Feb 24 23:35	7° $\mathbb{H}$ 01'35	0.68334 AU	asc. node	7404 Feb 04 20:17	26° $\approx$ 29'13	
morning rise	7403 Mar 02 09:14	0° $\mathbb{H}$ 32'49		min. Earth dist.	7404 Feb 08 20:09	21° $\approx$ 40'59	0.68122 AU
	7403 Mar 03 02:13	30° $\mathbb{R}$ $\approx$		inferior conj	7404 Feb 09 13:13	20° $\approx$ 43'04	1°30'18
direct	7403 Mar 06 22:53	28° $\approx$ 39'25		minimum elong	7404 Feb 09 11:20	20° $\approx$ 49'27	1°29'40
	7403 Mar 11 04:26	0° $\mathbb{H}$		morning rise	7404 Feb 14 20:39	14° $\approx$ 39'52	
morning max el	7403 Mar 15 23:39	3° $\mathbb{H}$ 55'33	21°45'58	direct	7404 Feb 18 20:48	13° $\approx$ 08'49	
desc. node	7403 Mar 25 02:47	14° $\mathbb{H}$ 53'33		morning max el	7404 Feb 26 19:10	17° $\approx$ 39'48	20°28'04
	7403 Apr 04 18:07	0° $\mathbb{Y}$			7404 Mar 07 17:58	0° $\mathbb{H}$	
morning set	7403 Apr 17 08:53	19° $\mathbb{Y}$ 25'28		desc. node	7404 Mar 10 23:47	4° $\mathbb{H}$ 36'02	
max. Earth dist.	7403 Apr 23 10:24	29° $\mathbb{Y}$ 17'55	1.41647 AU	morning set	7404 Mar 26 11:34	27° $\mathbb{H}$ 52'42	
	7403 Apr 23 20:31	0° $\mathbb{B}$			7404 Mar 27 20:21	0° $\mathbb{Y}$	
				max. Earth dist.	7404 Apr 04 16:59	12° $\mathbb{Y}$ 26'30	1.43503 AU
superior conj	7403 May 01 01:59	12° $\mathbb{B}$ 20'39	-1°57'50				
minimum elong	7403 May 01 07:10	12° $\mathbb{B}$ 43'24	1°57'30	superior conj	7404 Apr 11 01:46	22° $\mathbb{Y}$ 51'06	-2°10'30
	7403 May 10 20:59	0° $\mathbb{I}$		minimum elong	7404 Apr 11 03:25	22° $\mathbb{Y}$ 58'00	2°10'31
evening rise	7403 May 11 21:33	1° $\mathbb{I}$ 53'00			7404 Apr 15 07:50	0° $\mathbb{B}$	
asc. node	7403 May 16 22:18	11° $\mathbb{I}$ 03'25		evening rise	7404 Apr 23 11:35	14° $\mathbb{B}$ 06'45	
evening max el	7403 May 28 03:32	27° $\mathbb{I}$ 40'26	18°11'36	asc. node	7404 May 02 19:21	0° $\mathbb{I}$ 07'39	
	7403 May 31 02:17	0° $\mathbb{E}$			7404 May 02 17:28	0° $\mathbb{I}$	
retrograde	7403 Jun 04 02:27	1° $\mathbb{E}$ 10'48		evening max el	7404 May 10 16:11	10° $\mathbb{I}$ 49'35	18°06'08
evening set	7403 Jun 06 12:37	0° $\mathbb{E}$ 45'54		retrograde	7404 May 17 03:25	14° $\mathbb{I}$ 10'31	
	7403 Jun 08 06:03	30° $\mathbb{R}$ $\mathbb{I}$		evening set	7404 May 19 20:53	13° $\mathbb{I}$ 34'01	
inferior conj	7403 Jun 13 12:42	25° $\mathbb{I}$ 59'20	2°03'39	inferior conj	7404 May 26 05:43	8° $\mathbb{I}$ 27'33	2°52'52
minimum elong	7403 Jun 13 15:51	25° $\mathbb{I}$ 52'17	2°02'39	minimum elong	7404 May 26 08:22	8° $\mathbb{I}$ 20'45	2°52'15
min. Earth dist.	7403 Jun 16 21:38	23° $\mathbb{I}$ 00'15	0.59708 AU	min. Earth dist.	7404 May 29 05:37	5° $\mathbb{I}$ 24'54	0.61946 AU
morning rise	7403 Jun 20 16:11	20° $\mathbb{I}$ 14'29		morning rise	7404 Jun 01 17:59	2° $\mathbb{I}$ 24'22	
desc. node	7403 Jun 21 02:08	20° $\mathbb{I}$ 00'06		desc. node	7404 Jun 06 23:11	0° $\mathbb{I}$ 07'19	
direct	7403 Jun 27 02:20	18° $\mathbb{I}$ 18'24		direct	7404 Jun 08 12:09	0° $\mathbb{I}$ 00'01	
morning max el	7403 Jul 11 11:03	26° $\mathbb{I}$ 11'31	27°36'54	morning max el	7404 Jun 22 15:52	8° $\mathbb{I}$ 01'04	27°54'57
	7403 Jul 15 00:40	0° $\mathbb{E}$			7404 Jul 09 11:51	0° $\mathbb{E}$	
	7403 Aug 04 00:45	0° $\mathbb{Q}$		morning set	7404 Jul 26 06:29	0° $\mathbb{Q}$ 15'04	
morning set	7403 Aug 12 04:46	16° $\mathbb{Q}$ 02'22			7404 Jul 26 03:32	0° $\mathbb{Q}$	
asc. node	7403 Aug 12 21:40	17° $\mathbb{Q}$ 30'58		asc. node	7404 Jul 29 18:39	7° $\mathbb{Q}$ 34'07	
max. Earth dist.	7403 Aug 18 13:41	29° $\mathbb{Q}$ 47'57	1.31745 AU	max. Earth dist.	7404 Jul 31 21:19	12° $\mathbb{Q}$ 06'10	1.32123 AU
	7403 Aug 18 15:52	0° $\mathbb{P}$					
superior conj	7403 Aug 19 08:14	1° $\mathbb{P}$ 30'30	1°01'58	superior conj	7404 Aug 02 18:00	16° $\mathbb{Q}$ 09'36	0°39'49
minimum elong	7403 Aug 19 06:02	1° $\mathbb{P}$ 18'20	1°01'33	minimum elong	7404 Aug 02 16:19	16° $\mathbb{Q}$ 00'19	0°39'25
evening rise	7403 Aug 26 02:29	16° $\mathbb{P}$ 19'17			7404 Aug 09 02:01	0° $\mathbb{P}$	
	7403 Sep 01 20:20	0° $\mathbb{Q}$		evening rise	7404 Aug 09 13:50	1° $\mathbb{P}$ 03'25	
desc. node	7403 Sep 17 01:13	24° $\mathbb{Q}$ 07'40			7404 Aug 25 07:37	0° $\mathbb{Q}$	
	7403 Sep 22 06:04	0° $\mathbb{M}$		desc. node	7404 Sep 02 22:16	10° $\mathbb{Q}$ 43'46	
				evening max el	7404 Sep 03 18:08	11° $\mathbb{Q}$ 32'40	24°26'29

retrograde	7404 Sep 17 13:16	18°♄28'32		evening max el	7405 Aug 16 06:00	21°♄47'54	22°47'38
evening set	7404 Sep 22 15:33	17°♄30'57		desc. node	7405 Aug 20 19:18	25°♄31'30	
min. Earth dist.	7404 Sep 28 05:07	14°♄40'29	0.56554 AU	retrograde	7405 Aug 29 11:11	28°♄23'49	
inferior conj	7404 Sep 30 18:57	13°♄03'02	-5°29'59	evening set	7405 Sep 02 01:06	27°♄55'44	
minimum elong	7404 Sep 30 19:53	13°♄01'33	5°29'56	min. Earth dist.	7405 Sep 09 13:57	24°♄33'47	0.55225 AU
morning rise	7404 Oct 09 02:24	9°♄00'35		inferior conj	7405 Sep 10 22:41	23°♄46'58	-5°10'48
direct	7404 Oct 11 17:48	8°♄41'46		minimum elong	7405 Sep 10 16:25	23°♄55'56	5°09'56
morning max el	7404 Oct 21 09:31	13°♄14'50	19°35'07	morning rise	7405 Sep 19 09:47	19°♄57'58	
asc. node	7404 Oct 25 18:07	18°♄14'42		direct	7405 Sep 22 12:15	19°♄35'41	
	7404 Nov 02 01:01	0°♄		morning max el	7405 Oct 03 17:20	24°♄49'55	20°54'07
morning set	7404 Nov 07 20:14	11°♄16'32			7405 Oct 08 08:31	0°♄	
				asc. node	7405 Oct 12 15:07	6°♄11'53	
superior conj	7404 Nov 15 18:40	27°♄12'37	1°30'17	morning set	7405 Oct 23 03:59	25°♄59'07	
minimum elong	7404 Nov 15 21:09	27°♄12'49	1°30'09		7405 Oct 25 02:20	0°♄	
	7404 Nov 17 04:53	0°♄					
max. Earth dist.	7404 Nov 21 23:45	9°♄05'03	1.37712 AU	superior conj	7405 Oct 30 13:31	11°♄22'12	1°39'44
evening rise	7404 Nov 25 17:24	15°♄50'55		minimum elong	7405 Oct 30 14:38	11°♄27'54	1°39'45
desc. node	7404 Nov 29 21:21	23°♄03'11		max. Earth dist.	7405 Nov 04 08:37	21°♄00'38	1.35728 AU
	7404 Dec 04 02:29	0°♄		evening rise	7405 Nov 08 08:57	28°♄41'30	
	7404 Dec 25 06:41	0°♄			7405 Nov 09 01:52	0°♄	
evening max el	7404 Dec 31 08:06	6°♄38'22	25°15'32	desc. node	7405 Nov 16 18:22	13°♄31'13	
retrograde	7405 Jan 12 08:46	13°♄35'07			7405 Nov 27 08:35	0°♄	
evening set	7405 Jan 18 03:43	11°♄11'14		evening max el	7405 Dec 13 21:05	20°♄23'10	26°20'28
asc. node	7405 Jan 21 17:21	7°♄22'45		retrograde	7405 Dec 26 16:19	27°♄36'25	
min. Earth dist.	7405 Jan 22 14:22	6°♄16'09	0.67528 AU	evening set	7406 Jan 01 23:57	25°♄02'53	
inferior conj	7405 Jan 23 18:42	4°♄44'11	0°40'52	min. Earth dist.	7406 Jan 06 03:58	20°♄42'44	0.66565 AU
minimum elong	7405 Jan 23 17:43	4°♄47'25	0°40'32	inferior conj	7406 Jan 07 19:48	18°♄41'27	-0°15'41
	7405 Jan 27 20:25	30°♄		minimum elong	7406 Jan 07 20:13	18°♄40'10	0°15'24
morning rise	7405 Jan 29 08:00	28°♄48'40		transit middle	7406 Jan 07 20:13	18°♄40'10	0°15'24
direct	7405 Feb 01 19:50	27°♄38'27		transit begin	7406 Jan 07 19:23	18°♄42'43	
	7405 Feb 07 04:29	0°♄		transit end	7406 Jan 07 21:03	18°♄37'38	
morning max el	7405 Feb 08 22:43	1°♄35'34	19°23'54	asc. node	7406 Jan 08 14:25	17°♄45'08	
greatest brilliancy	7405 Feb 21 22:29	18°♄46'27	-0.7m	morning rise	7406 Jan 13 17:13	12°♄55'51	
desc. node	7405 Feb 25 20:46	24°♄41'37		direct	7406 Jan 16 18:17	12°♄03'29	
	7405 Mar 01 08:08	0°♄		morning max el	7406 Jan 23 09:22	15°♄39'06	18°35'28
morning set	7405 Mar 05 10:00	6°♄16'31			7406 Feb 03 02:57	0°♄	
max. Earth dist.	7405 Mar 18 06:54	26°♄20'53	1.44809 AU	desc. node	7406 Feb 12 17:43	15°♄03'43	
	7405 Mar 20 14:13	0°♄		morning set	7406 Feb 13 03:49	15°♄43'34	
					7406 Feb 22 05:21	0°♄	
superior conj	7405 Mar 22 00:51	2°♄17'51	-2°06'02				
minimum elong	7405 Mar 21 19:48	1°♄57'43	2°05'50	superior conj	7406 Mar 01 06:59	11°♄04'29	-1°41'26
evening rise	7405 Apr 05 04:47	25°♄25'19		minimum elong	7406 Feb 28 21:28	10°♄27'10	1°40'31
	7405 Apr 07 22:39	0°♄		max. Earth dist.	7406 Mar 01 01:08	10°♄41'33	1.45426 AU
asc. node	7405 Apr 19 16:24	18°♄41'23			7406 Mar 13 07:28	0°♄	
evening max el	7405 Apr 24 05:18	24°♄13'45	18°19'25	evening rise	7406 Mar 16 22:28	5°♄45'42	
retrograde	7405 Apr 30 15:01	27°♄39'45		greatest brilliancy	7406 Mar 25 10:04	19°♄15'19	-0.8m
evening set	7405 May 03 15:26	26°♄50'15			7406 Apr 01 11:39	0°♄	
inferior conj	7405 May 09 13:05	21°♄25'19	3°18'35	asc. node	7406 Apr 06 13:28	6°♄34'23	
minimum elong	7405 May 09 14:26	21°♄21'29	3°18'23	evening max el	7406 Apr 07 16:06	7°♄45'22	18°50'39
min. Earth dist.	7405 May 11 22:51	18°♄40'41	0.64000 AU	retrograde	7406 Apr 14 09:12	11°♄29'21	
morning rise	7405 May 15 12:24	15°♄12'24		evening set	7406 Apr 17 16:45	10°♄26'02	
direct	7405 May 22 06:31	12°♄30'16		inferior conj	7406 Apr 23 06:53	4°♄44'23	3°26'00
desc. node	7405 May 24 20:11	12°♄51'09		minimum elong	7406 Apr 23 06:50	4°♄44'34	3°25'58
morning max el	7405 Jun 05 00:53	20°♄30'04	27°35'55	min. Earth dist.	7406 Apr 25 01:13	2°♄32'31	0.65710 AU
	7405 Jun 13 04:52	0°♄			7406 Apr 27 06:12	30°♄	
	7405 Jul 02 13:33	0°♄		morning rise	7406 Apr 28 20:23	28°♄27'36	
morning set	7405 Jul 10 00:36	14°♄02'57		direct	7406 May 05 08:08	25°♄39'55	
max. Earth dist.	7405 Jul 14 22:24	24°♄03'08	1.32971 AU	desc. node	7406 May 11 17:12	27°♄48'34	
asc. node	7405 Jul 16 15:39	27°♄40'38			7406 May 14 17:35	0°♄	
	7405 Jul 17 17:48	0°♄		morning max el	7406 May 18 11:21	3°♄26'50	26°45'15
					7406 Jun 07 13:06	0°♄	
superior conj	7405 Jul 18 00:04	0°♄33'33	0°13'47	morning set	7406 Jun 23 07:57	27°♄16'40	
minimum elong	7405 Jul 17 23:23	0°♄29'56	0°13'33		7406 Jun 24 18:01	0°♄	
behind sun begin	7405 Jul 17 20:30	0°♄14'30		max. Earth dist.	7406 Jun 27 13:29	5°♄31'30	1.34291 AU
behind sun end	7405 Jul 18 02:16	0°♄45'24					
evening rise	7405 Jul 25 01:26	15°♄44'48		superior conj	7406 Jul 02 00:08	14°♄35'20	-0°15'25
	7405 Aug 01 03:20	0°♄		minimum elong	7406 Jul 02 00:59	14°♄39'44	0°15'20

behind sun begin	7406 Jul 01 23:16	14°☿30'50		max. Earth dist.	7407 Jun 09 17:20	16°♄36'31	1.36063 AU
behind sun end	7406 Jul 02 02:42	14°☿48'39					
asc. node	7406 Jul 03 12:39	17°☿45'57		superior conj	7407 Jun 15 15:32	28°♄07'59	-0°46'28
evening rise	7406 Jul 09 11:17	0°♄16'49		minimum elong	7407 Jun 15 18:16	28°♄21'40	0°46'03
	7406 Jul 09 08:04	0°♄			7407 Jun 16 13:53	0°☿	
	7406 Jul 26 21:55	0°♄		asc. node	7407 Jun 20 09:39	7°☿46'18	
evening max el	7406 Jul 29 00:34	2°♄14'57	21°14'16	evening rise	7407 Jun 23 17:15	14°☿33'14	
desc. node	7406 Aug 07 16:21	7°♄58'17			7407 Jul 01 17:50	0°♄	
retrograde	7406 Aug 10 00:39	8°♄11'40		evening max el	7407 Jul 11 07:46	13°♄20'35	19°57'05
evening set	7406 Aug 12 09:09	7°♄58'47		retrograde	7407 Jul 21 15:28	18°♄25'16	
inferior conj	7406 Aug 21 15:49	4°♄00'53	-3°57'26	evening set	7407 Jul 23 12:33	18°♄15'55	
minimum elong	7406 Aug 21 06:27	4°♄14'02	3°54'49	desc. node	7407 Jul 25 13:25	17°♄46'01	
min. Earth dist.	7406 Aug 21 23:07	3°♄50'37	0.54711 AU	inferior conj	7407 Aug 01 12:32	14°♄15'51	-2°06'24
morning rise	7406 Aug 30 04:27	0°♄07'10		minimum elong	7407 Aug 01 06:42	14°♄24'41	2°04'18
	7406 Aug 30 16:20	30°♄♄		min. Earth dist.	7407 Aug 03 10:41	13°♄06'01	0.55161 AU
direct	7406 Sep 02 20:36	29°♄38'08		morning rise	7407 Aug 09 23:05	9°♄57'00	
	7406 Sep 05 23:16	0°♄		direct	7407 Aug 14 09:14	9°♄14'08	
morning max el	7406 Sep 15 13:33	5°♄39'59	22°31'24	morning max el	7407 Aug 28 03:04	16°♄00'46	24°16'45
asc. node	7406 Sep 29 12:06	24°♄50'44			7407 Sep 08 07:42	0°♄	
	7406 Oct 02 06:37	0°♄		asc. node	7407 Sep 16 09:05	14°♄00'49	
morning set	7406 Oct 07 14:37	10°♄48'32		morning set	7407 Sep 22 02:19	25°♄39'07	
					7407 Sep 24 02:56	0°♄	
superior conj	7406 Oct 14 16:17	25°♄54'04	1°41'53	superior conj	7407 Sep 29 00:12	10°♄39'09	1°37'39
minimum elong	7406 Oct 14 16:04	25°♄52'53	1°41'55	minimum elong	7407 Sep 28 22:54	10°♄32'06	1°37'35
	7406 Oct 16 14:54	0°♄		max. Earth dist.	7407 Oct 01 01:15	15°♄04'40	1.32850 AU
max. Earth dist.	7406 Oct 18 00:45	2°♄56'00	1.34075 AU	evening rise	7407 Oct 06 09:07	26°♄14'08	
evening rise	7406 Oct 22 15:27	12°♄12'42			7407 Oct 08 06:15	0°♄	
	7406 Nov 01 09:40	0°♄		desc. node	7407 Oct 21 12:26	23°♄32'30	
desc. node	7406 Nov 03 15:23	3°♄43'33			7407 Oct 25 18:41	0°♄	
	7406 Nov 22 13:50	0°♄		evening max el	7407 Nov 08 21:39	17°♄13'02	27°28'03
evening max el	7406 Nov 26 09:59	3°♄58'39	27°06'58	retrograde	7407 Nov 22 13:55	24°♄31'23	
retrograde	7406 Dec 09 18:18	11°♄18'29		evening set	7407 Nov 29 15:21	21°♄58'15	
evening set	7406 Dec 16 12:44	8°♄41'00		min. Earth dist.	7407 Dec 03 08:51	18°♄44'11	0.63591 AU
min. Earth dist.	7406 Dec 20 10:48	4°♄55'14	0.65243 AU	inferior conj	7407 Dec 05 23:45	16°♄04'55	-2°25'16
inferior conj	7406 Dec 22 14:21	2°♄30'43	-1°18'18	minimum elong	7407 Dec 06 04:14	15°♄53'32	2°23'26
minimum elong	7406 Dec 22 16:40	2°♄24'14	1°17'14	morning rise	7407 Dec 12 18:54	10°♄47'06	
	7406 Dec 24 22:21	30°♄♄		asc. node	7407 Dec 13 08:29	10°♄35'29	
asc. node	7406 Dec 26 11:27	28°♄34'20		direct	7407 Dec 15 04:39	10°♄18'54	
morning rise	7406 Dec 28 21:52	26°♄57'34		morning max el	7407 Dec 21 18:04	13°♄43'07	17°49'07
direct	7406 Dec 31 14:07	26°♄19'15			7408 Jan 02 00:56	0°♄	
morning max el	7407 Jan 07 00:49	29°♄44'30	18°03'41	morning set	7408 Jan 07 05:24	8°♄54'04	
	7407 Jan 07 07:00	0°♄		desc. node	7408 Jan 17 11:41	26°♄19'17	
morning set	7407 Jan 25 03:13	26°♄39'55					
	7407 Jan 27 03:56	0°♄		superior conj	7408 Jan 19 16:49	29°♄58'18	-0°15'55
desc. node	7407 Jan 30 14:42	5°♄37'50		minimum elong	7408 Jan 19 15:05	29°♄51'12	0°15'35
				behind sun begin	7408 Jan 19 12:39	29°♄41'12	
superior conj	7407 Feb 08 14:31	20°♄02'57	-1°01'14	behind sun end	7408 Jan 19 17:32	0°♄01'11	
minimum elong	7407 Feb 08 07:19	19°♄34'27	1°00'15		7408 Jan 19 17:14	0°♄	
max. Earth dist.	7407 Feb 11 20:38	25°♄10'46	1.45302 AU	max. Earth dist.	7408 Jan 25 14:45	9°♄31'34	1.44460 AU
	7407 Feb 14 22:31	0°♄		evening rise	7408 Feb 04 06:35	24°♄37'30	
evening rise	7407 Feb 24 19:31	15°♄20'04			7408 Feb 07 18:59	0°♄	
	7407 Mar 06 08:29	0°♄			7408 Feb 28 16:00	0°♄	
greatest brilliancy	7407 Mar 10 04:00	5°♄44'42	-0.7m	evening max el	7408 Mar 04 00:03	4°♄58'25	20°40'53
evening max el	7407 Mar 21 22:43	21°♄20'59	19°38'33	asc. node	7408 Mar 10 07:36	9°♄28'53	
asc. node	7407 Mar 24 10:31	23°♄35'01		retrograde	7408 Mar 12 05:12	9°♄47'35	
retrograde	7407 Mar 29 06:45	25°♄33'33		evening set	7408 Mar 16 05:48	8°♄14'56	
evening set	7407 Apr 01 22:14	24°♄15'53		inferior conj	7408 Mar 21 13:34	2°♄05'52	3°00'37
inferior conj	7407 Apr 07 07:56	18°♄19'26	3°19'06	minimum elong	7408 Mar 21 11:36	2°♄12'35	3°00'14
minimum elong	7407 Apr 07 06:44	18°♄23'24	3°18'57	min. Earth dist.	7408 Mar 22 03:16	1°♄18'45	0.67865 AU
min. Earth dist.	7407 Apr 08 11:22	16°♄48'28	0.67007 AU		7408 Mar 23 02:30	30°♄♄	
morning rise	7407 Apr 12 14:56	12°♄02'25		morning rise	7408 Mar 26 17:11	25°♄50'57	
direct	7407 Apr 18 16:05	9°♄20'42		direct	7408 Apr 01 05:14	23°♄24'06	
desc. node	7407 Apr 28 14:13	14°♄27'54		morning max el	7408 Apr 12 05:54	29°♄59'43	24°04'47
morning max el	7407 Apr 30 21:06	16°♄39'27	25°31'27		7408 Apr 12 06:01	0°♄	
	7407 May 11 22:53	0°♄		desc. node	7408 Apr 14 11:13	2°♄21'17	
	7407 May 31 11:40	0°♄			7408 May 04 19:34	0°♄	
morning set	7407 Jun 06 00:26	9°♄44'50					

morning set	7408 May 17 20:44	21°♄13'19		desc. node	7409 Apr 01 08:13	21°♄08'00	
max. Earth dist.	7408 May 21 13:48	27°♄44'13	1.38181 AU		7409 Apr 07 23:10	0°♄	
	7408 May 22 20:01	0°♄			7409 Apr 27 17:48	0°♄	
superior conj	7408 May 28 18:51	11°♄03'07	-1°17'25	morning set	7409 Apr 28 15:14	1°♄27'35	
minimum elong	7408 May 28 23:27	11°♄25'05	1°16'48	max. Earth dist.	7409 May 03 10:42	9°♄29'32	1.40424 AU
asc. node	7408 Jun 06 06:42	27°♄37'45		superior conj	7409 May 11 05:47	23°♄09'49	-1°45'06
evening rise	7408 Jun 06 16:45	28°♄27'12		minimum elong	7409 May 11 11:23	23°♄35'09	1°44'35
	7408 Jun 07 11:38	0°♄			7409 May 14 23:23	0°♄	
evening max el	7408 Jun 23 03:35	25°♄10'35	19°00'02	evening rise	7409 May 21 06:32	11°♄49'52	
retrograde	7408 Jul 01 19:47	29°♄27'17		asc. node	7409 May 24 03:45	17°♄15'09	
evening set	7408 Jul 03 18:59	29°♄14'59			7409 May 31 11:05	0°♄	
desc. node	7408 Jul 11 10:29	25°♄25'59		evening max el	7409 Jun 06 08:46	7°♄37'55	18°23'27
inferior conj	7408 Jul 12 01:26	25°♄00'06	-0°11'16	retrograde	7409 Jun 13 19:18	11°♄20'41	
minimum elong	7408 Jul 12 00:57	25°♄00'55	0°11'10	evening set	7409 Jun 16 01:16	11°♄01'14	
transit middle	7408 Jul 12 00:57	25°♄00'55	0°11'10	inferior conj	7409 Jun 23 11:46	6°♄26'04	1°22'45
transit begin	7408 Jul 11 22:15	25°♄05'38		minimum elong	7409 Jun 23 14:23	6°♄20'42	1°21'46
transit end	7408 Jul 12 03:40	24°♄56'12		min. Earth dist.	7409 Jun 26 21:22	3°♄40'39	0.58444 AU
min. Earth dist.	7408 Jul 15 01:35	22°♄55'12	0.56494 AU	desc. node	7409 Jun 28 07:34	2°♄37'14	
morning rise	7408 Jul 20 03:41	20°♄05'25		morning rise	7409 Jul 01 00:15	0°♄56'58	
direct	7408 Jul 25 10:48	18°♄59'11			7409 Jul 03 04:41	30°♄	
morning max el	7408 Aug 08 16:40	26°♄19'34	25°54'46	direct	7409 Jul 07 02:10	29°♄19'57	
	7408 Aug 12 04:39	0°♄			7409 Jul 11 01:44	0°♄	
	7408 Aug 31 11:05	0°♄		morning max el	7409 Jul 21 11:30	7°♄03'11	27°09'26
asc. node	7408 Sep 02 06:05	3°♄33'57			7409 Aug 07 15:52	0°♄	
morning set	7408 Sep 05 13:31	10°♄26'23		asc. node	7409 Aug 20 03:06	23°♄22'39	
				morning set	7409 Aug 20 22:30	25°♄04'21	
superior conj	7408 Sep 12 11:03	25°♄30'42	1°27'45		7409 Aug 23 05:50	0°♄	
minimum elong	7408 Sep 12 09:03	25°♄19'41	1°27'32	superior conj	7409 Aug 27 22:52	10°♄21'25	1°12'45
max. Earth dist.	7408 Sep 13 08:26	27°♄28'37	1.32075 AU	minimum elong	7409 Aug 27 20:36	10°♄08'53	1°12'23
	7408 Sep 14 11:59	0°♄		max. Earth dist.	7409 Aug 27 18:51	9°♄59'11	1.31740 AU
evening rise	7408 Sep 19 10:52	10°♄37'18		evening rise	7409 Sep 03 18:00	25°♄13'18	
	7408 Sep 29 12:17	0°♄			7409 Sep 06 00:51	0°♄	
desc. node	7408 Oct 07 09:31	12°♄48'36			7409 Sep 23 07:55	0°♄	
evening max el	7408 Oct 21 05:52	29°♄53'38	27°17'53	desc. node	7409 Sep 24 06:34	1°♄18'01	
	7408 Oct 21 08:35	0°♄		evening max el	7409 Oct 03 07:39	11°♄47'32	26°33'56
retrograde	7408 Nov 04 02:02	7°♄06'09		retrograde	7409 Oct 17 05:32	18°♄54'30	
evening set	7408 Nov 11 04:24	4°♄47'34		evening set	7409 Oct 23 23:24	17°♄01'18	
min. Earth dist.	7408 Nov 14 20:29	1°♄58'55	0.61677 AU	min. Earth dist.	7409 Oct 27 21:14	14°♄26'15	0.59604 AU
	7408 Nov 17 01:42	30°♄		inferior conj	7409 Oct 31 02:20	11°♄55'25	-4°34'58
inferior conj	7408 Nov 17 20:55	29°♄16'24	-3°33'02	minimum elong	7409 Oct 31 09:17	11°♄41'48	4°33'17
minimum elong	7408 Nov 18 03:20	29°♄01'59	3°30'52	morning rise	7409 Nov 07 21:23	7°♄18'17	
morning rise	7408 Nov 25 04:23	24°♄17'16		direct	7409 Nov 10 03:42	6°♄59'50	
direct	7408 Nov 27 10:36	23°♄55'30		asc. node	7409 Nov 16 02:33	9°♄15'09	
asc. node	7408 Nov 29 05:31	24°♄09'36		morning max el	7409 Nov 17 21:07	10°♄47'13	18°15'41
morning max el	7408 Dec 04 09:58	27°♄26'59	17°52'38		7409 Nov 30 12:35	0°♄	
	7408 Dec 06 16:50	0°♄		morning set	7409 Dec 03 16:33	5°♄57'12	
morning set	7408 Dec 20 03:49	22°♄05'41					
	7408 Dec 24 12:57	0°♄		superior conj	7409 Dec 13 00:52	23°♄26'26	0°58'00
superior conj	7408 Dec 30 20:52	11°♄07'55	0°25'21	minimum elong	7409 Dec 13 04:24	23°♄42'29	0°57'38
minimum elong	7408 Dec 30 23:03	11°♄17'21	0°25'07		7409 Dec 16 16:49	0°♄	
desc. node	7409 Jan 03 08:42	17°♄04'29		max. Earth dist.	7409 Dec 20 15:37	6°♄50'18	1.41073 AU
max. Earth dist.	7409 Jan 07 05:33	23°♄29'23	1.42995 AU	desc. node	7409 Dec 21 05:42	7°♄50'00	
	7409 Jan 11 06:20	0°♄		evening rise	7409 Dec 25 09:15	14°♄43'41	
evening rise	7409 Jan 13 23:08	4°♄16'07			7410 Jan 04 02:37	0°♄	
	7409 Jan 31 04:16	0°♄			7410 Jan 26 07:08	0°♄	
evening max el	7409 Feb 14 20:07	18°♄37'34	21°54'06	evening max el	7410 Jan 28 11:54	2°♄19'03	23°13'21
retrograde	7409 Feb 24 02:39	24°♄07'20		retrograde	7410 Feb 07 21:40	8°♄28'45	
asc. node	7409 Feb 25 04:41	24°♄01'15		asc. node	7410 Feb 12 01:45	7°♄02'05	
evening set	7409 Feb 28 13:46	22°♄19'23		evening set	7410 Feb 12 20:31	6°♄25'39	
inferior conj	7409 Mar 05 21:35	16°♄00'19	2°32'18	inferior conj	7410 Feb 18 06:03	29°♄59'57	1°55'17
minimum elong	7409 Mar 05 19:18	16°♄08'16	2°31'42	minimum elong	7410 Feb 18 03:53	0°♄07'25	1°54'36
min. Earth dist.	7409 Mar 05 22:40	15°♄56'30	0.68288 AU	min. Earth dist.	7410 Feb 17 19:24	0°♄36'40	0.68295 AU
morning rise	7409 Mar 11 00:40	9°♄48'59			7410 Feb 18 06:02	30°♄	
direct	7409 Mar 15 22:33	7°♄42'39		morning rise	7410 Feb 23 11:12	23°♄53'32	
morning max el	7409 Mar 25 16:14	13°♄27'06	22°35'16	direct	7410 Feb 27 19:00	22°♄09'50	

morning max el	7410 Mar 08 07:46	27° $\approx$ 05'13	21°11'25	desc. node	7411 Mar 06 02:07	0° $\times$ 26'04	
	7410 Mar 11 00:34	0° $\times$		morning set	7411 Mar 18 04:01	18° $\times$ 43'31	
desc. node	7410 Mar 19 05:11	10° $\times$ 33'17			7411 Mar 25 09:46	0° $\gamma$	
	7410 Apr 01 12:07	0° $\gamma$		max. Earth dist.	7411 Mar 28 23:07	5° $\gamma$ 38'04	1.44134 AU
morning set	7410 Apr 08 06:18	10° $\gamma$ 27'01					
max. Earth dist.	7410 Apr 15 13:31	22° $\gamma$ 09'29	1.42494 AU	superior conj	7411 Apr 03 08:28	14° $\gamma$ 19'15	-2°11'00
	7410 Apr 20 06:51	0° $\delta$		minimum elong	7411 Apr 03 07:29	14° $\gamma$ 15'13	2°11'01
					7411 Apr 12 18:31	0° $\delta$	
superior conj	7410 Apr 22 19:33	4° $\delta$ 17'43	-2°04'55	evening rise	7411 Apr 16 12:16	6° $\delta$ 23'06	
minimum elong	7410 Apr 22 23:44	4° $\delta$ 35'38	2°04'47	asc. node	7411 Apr 27 21:52	25° $\delta$ 25'44	
evening rise	7410 May 04 06:37	24° $\delta$ 32'15			7411 May 01 02:09	0° $\Pi$	
	7410 May 07 07:29	0° $\Pi$		evening max el	7411 May 04 08:47	3° $\Pi$ 50'09	18°09'30
asc. node	7410 May 11 00:49	6° $\Pi$ 33'33		retrograde	7411 May 10 18:24	7° $\Pi$ 11'53	
evening max el	7410 May 20 19:40	20° $\Pi$ 34'15	18°06'50	evening set	7411 May 13 14:43	6° $\Pi$ 30'09	
retrograde	7410 May 27 12:21	23° $\Pi$ 59'03		inferior conj	7411 May 19 18:20	1° $\Pi$ 15'44	3°06'17
evening set	7410 May 30 01:37	23° $\Pi$ 29'29		minimum elong	7411 May 19 20:29	1° $\Pi$ 09'57	3°05'52
inferior conj	7410 Jun 05 18:41	18° $\Pi$ 33'59	2°27'44		7411 May 20 22:18	30° $\kappa$ $\delta$	
minimum elong	7410 Jun 05 21:48	18° $\Pi$ 26'36	2°26'51	min. Earth dist.	7411 May 22 12:39	28° $\delta$ 18'09	0.62853 AU
min. Earth dist.	7410 Jun 09 00:33	15° $\Pi$ 30'35	0.60668 AU	morning rise	7411 May 26 00:42	25° $\delta$ 07'11	
morning rise	7410 Jun 12 15:30	12° $\Pi$ 39'50		direct	7411 Jun 01 19:39	22° $\delta$ 33'36	
desc. node	7410 Jun 15 04:35	11° $\Pi$ 19'32		desc. node	7411 Jun 02 01:36	22° $\delta$ 33'48	
direct	7410 Jun 19 05:51	10° $\Pi$ 31'04			7411 Jun 15 05:38	0° $\Pi$	
morning max el	7410 Jul 03 13:15	18° $\Pi$ 28'36	27°49'22	morning max el	7411 Jun 15 20:19	0° $\Pi$ 36'20	27°51'07
	7410 Jul 13 05:37	0° $\phi$			7411 Jul 07 08:06	0° $\phi$	
	7410 Jul 31 09:59	0° $\Omega$		morning set	7411 Jul 20 02:17	23° $\phi$ 31'05	
morning set	7410 Aug 05 03:28	9° $\Omega$ 27'56			7411 Jul 23 05:56	0° $\Omega$	
asc. node	7410 Aug 07 00:06	13° $\Omega$ 21'47		asc. node	7411 Jul 24 21:07	3° $\Omega$ 26'54	
max. Earth dist.	7410 Aug 11 04:38	22° $\Omega$ 25'00	1.31851 AU	max. Earth dist.	7411 Jul 25 09:50	4° $\Omega$ 34'44	1.32419 AU
superior conj	7410 Aug 12 09:54	25° $\Omega$ 06'03	0°53'05	superior conj	7411 Jul 27 18:20	9° $\Omega$ 39'19	0°29'13
minimum elong	7410 Aug 12 07:51	24° $\Omega$ 54'45	0°52'39	minimum elong	7411 Jul 27 17:01	9° $\Omega$ 32'07	0°28'51
	7410 Aug 14 15:08	0° $\Pi$		evening rise	7411 Aug 03 16:02	24° $\Omega$ 39'04	
evening rise	7410 Aug 19 04:22	9° $\Pi$ 55'45			7411 Aug 06 05:06	0° $\Pi$	
	7410 Aug 29 09:29	0° $\underline{\alpha}$			7411 Aug 24 11:45	0° $\underline{\alpha}$	
desc. node	7410 Sep 11 03:38	18° $\underline{\alpha}$ 42'13		evening max el	7411 Aug 27 13:19	3° $\underline{\alpha}$ 14'53	23°44'46
evening max el	7410 Sep 15 01:16	22° $\underline{\alpha}$ 50'08	25°19'15	desc. node	7411 Aug 29 00:41	4° $\underline{\alpha}$ 36'15	
retrograde	7410 Sep 28 23:02	29° $\underline{\alpha}$ 52'14		retrograde	7411 Sep 10 04:42	10° $\underline{\alpha}$ 05'06	
evening set	7410 Oct 04 19:34	28° $\underline{\alpha}$ 33'27		evening set	7411 Sep 14 15:28	9° $\underline{\alpha}$ 21'41	
min. Earth dist.	7410 Oct 09 12:59	25° $\underline{\alpha}$ 54'05	0.57575 AU	min. Earth dist.	7411 Sep 20 23:35	6° $\underline{\alpha}$ 19'20	0.55894 AU
inferior conj	7410 Oct 12 12:41	23° $\underline{\alpha}$ 52'13	-5°19'15	inferior conj	7411 Sep 23 02:50	5° $\underline{\alpha}$ 02'13	-5°28'25
minimum elong	7410 Oct 12 17:00	23° $\underline{\alpha}$ 44'51	5°18'44	minimum elong	7411 Sep 23 00:41	5° $\underline{\alpha}$ 05'29	5°28'18
morning rise	7410 Oct 20 16:45	19° $\underline{\alpha}$ 38'20		morning rise	7411 Oct 01 12:09	1° $\underline{\alpha}$ 07'06	
direct	7410 Oct 23 03:25	19° $\underline{\alpha}$ 20'30		direct	7411 Oct 04 07:38	0° $\underline{\alpha}$ 47'16	
morning max el	7410 Oct 31 23:57	23° $\underline{\alpha}$ 33'44	18°59'51	morning max el	7411 Oct 14 15:18	5° $\underline{\alpha}$ 37'14	20°06'13
asc. node	7410 Nov 02 23:34	25° $\underline{\alpha}$ 39'22		asc. node	7411 Oct 20 20:33	13° $\underline{\alpha}$ 07'00	
	7410 Nov 06 07:10	0° $\Pi$			7411 Oct 30 10:26	0° $\Pi$	
morning set	7410 Nov 17 15:06	20° $\Pi$ 15'23		morning set	7411 Nov 01 20:15	4° $\Pi$ 51'18	
	7410 Nov 22 13:29	0° $\times$					
				superior conj	7411 Nov 09 12:32	20° $\Pi$ 31'36	1°35'14
superior conj	7410 Nov 25 23:44	6° $\times$ 39'01	1°21'06	minimum elong	7411 Nov 09 14:27	20° $\Pi$ 41'13	1°35'11
minimum elong	7410 Nov 26 02:52	6° $\times$ 53'59	1°20'51		7411 Nov 14 08:23	0° $\times$	
max. Earth dist.	7410 Dec 02 21:25	19° $\times$ 26'55	1.38930 AU	max. Earth dist.	7411 Nov 15 03:25	1° $\times$ 30'37	1.36828 AU
evening rise	7410 Dec 06 17:29	26° $\times$ 10'27		evening rise	7411 Nov 18 22:43	8° $\times$ 33'45	
desc. node	7410 Dec 08 02:41	28° $\times$ 32'03		desc. node	7411 Nov 24 23:43	19° $\times$ 06'53	
	7410 Dec 08 23:33	0° $\zeta$			7411 Dec 01 17:25	0° $\zeta$	
	7410 Dec 28 17:29	0° $\approx$		evening max el	7411 Dec 24 14:13	29° $\zeta$ 49'57	25°44'58
evening max el	7411 Jan 11 01:15	16° $\approx$ 03'18	24°32'39		7411 Dec 24 18:21	0° $\approx$	
retrograde	7411 Jan 22 13:03	22° $\approx$ 46'32		retrograde	7412 Jan 05 23:48	6° $\approx$ 55'44	
evening set	7411 Jan 28 00:30	20° $\approx$ 29'30		evening set	7412 Jan 12 00:07	4° $\approx$ 27'17	
asc. node	7411 Jan 29 22:49	18° $\approx$ 34'53			7412 Jan 16 03:38	30° $\kappa$ $\zeta$	
min. Earth dist.	7411 Feb 01 15:12	15° $\approx$ 14'35	0.67912 AU	min. Earth dist.	7412 Jan 16 07:51	29° $\zeta$ 46'50	0.67161 AU
inferior conj	7411 Feb 02 13:08	14° $\approx$ 01'19	1°10'12	asc. node	7412 Jan 16 19:50	29° $\zeta$ 09'00	
minimum elong	7411 Feb 02 11:35	14° $\approx$ 06'33	1°09'41	inferior conj	7412 Jan 17 17:02	28° $\zeta$ 01'40	0°17'43
morning rise	7411 Feb 07 22:48	8° $\approx$ 01'15		minimum elong	7412 Jan 17 16:34	28° $\zeta$ 03'07	0°17'37
direct	7411 Feb 11 17:26	6° $\approx$ 39'37		morning rise	7412 Jan 23 09:31	22° $\zeta$ 09'53	
morning max el	7411 Feb 19 06:46	10° $\approx$ 54'54	19°58'56	direct	7412 Jan 26 16:28	21° $\zeta$ 07'46	
	7411 Mar 05 19:04	0° $\times$		morning max el	7412 Feb 02 13:33	24° $\zeta$ 54'41	19°01'12

	7412 Feb 06 22:41	0°♊			7413 Jan 30 21:40	0°♊	
desc. node	7412 Feb 20 23:05	20°♊39'17		morning set	7413 Feb 04 14:31	7°♊32'23	
morning set	7412 Feb 25 08:16	27°♊27'18		desc. node	7413 Feb 06 20:05	11°♊07'01	
	7412 Feb 26 23:32	0°♋			7413 Feb 18 18:02	0°♋	
max. Earth dist.	7412 Mar 10 14:38	19°♋43'32	1.45164 AU				
				superior conj	7413 Feb 20 03:01	2°♋09'22	-1°25'43
superior conj	7412 Mar 12 22:44	23°♋24'20	-1°58'00	minimum elong	7413 Feb 19 17:42	1°♋32'51	1°24'40
minimum elong	7412 Mar 12 15:05	22°♋54'09	1°57'29	max. Earth dist.	7413 Feb 21 09:54	4°♋10'26	1.45470 AU
	7412 Mar 17 02:37	0°♌		evening rise	7413 Mar 08 03:36	27°♋14'21	
evening rise	7412 Mar 27 19:28	17°♌15'51			7413 Mar 09 21:51	0°♌	
	7412 Apr 04 14:54	0°♍		greatest brilliancy	7413 Mar 18 21:20	14°♌00'26	-0.8m
asc. node	7412 Apr 13 18:55	13°♍43'18			7413 Mar 30 10:37	0°♍	
evening max el	7412 Apr 16 21:14	17°♍18'06	18°30'38	evening max el	7413 Mar 31 06:34	0°♍52'33	19°09'09
retrograde	7412 Apr 23 09:07	20°♍50'09		asc. node	7413 Mar 31 15:58	1°♍15'55	
evening set	7412 Apr 26 12:29	19°♍54'56		retrograde	7413 Apr 07 04:59	4°♍47'02	
inferior conj	7412 May 02 06:34	14°♍22'59	3°23'40	evening set	7413 Apr 10 15:53	3°♍37'33	
minimum elong	7412 May 02 07:18	14°♍20'48	3°23'34		7413 Apr 14 10:06	30°♌♌	
min. Earth dist.	7412 May 04 09:54	11°♍50'37	0.64780 AU	inferior conj	7413 Apr 16 03:49	27°♌49'29	3°24'38
morning rise	7412 May 08 01:18	8°♍07'54		minimum elong	7413 Apr 16 03:14	27°♌51'21	3°24'33
direct	7412 May 14 17:31	5°♍21'31		min. Earth dist.	7413 Apr 17 15:40	25°♌54'30	0.66321 AU
desc. node	7412 May 18 22:36	6°♍17'51		morning rise	7413 Apr 21 14:11	21°♌32'33	
morning max el	7412 May 28 06:05	13°♍17'47	27°17'37	direct	7413 Apr 27 21:57	18°♌46'08	
	7412 Jun 10 16:40	0°♎		desc. node	7413 May 05 19:36	22°♌02'40	
	7412 Jun 28 22:47	0°♏		morning max el	7413 May 10 16:14	26°♌22'09	26°16'04
morning set	7412 Jul 02 16:13	7°♏05'22			7413 May 14 00:47	0°♏	
max. Earth dist.	7412 Jul 07 06:41	16°♏18'12	1.33470 AU		7413 Jun 04 06:42	0°♎	
				morning set	7413 Jun 15 17:49	20°♎01'17	
superior conj	7412 Jul 10 22:08	23°♏54'37	0°01'44	max. Earth dist.	7413 Jun 19 16:57	27°♎35'19	1.34998 AU
minimum elong	7412 Jul 10 22:04	23°♏54'12	0°01'37		7413 Jun 20 22:26	0°♏	
behind sun begin	7412 Jul 10 16:33	23°♏25'04					
behind sun end	7412 Jul 11 03:34	24°♏23'23		superior conj	7413 Jun 24 18:56	7°♏45'28	-0°28'27
asc. node	7412 Jul 10 18:06	23°♏33'15		minimum elong	7413 Jun 24 20:34	7°♏53'45	0°28'13
	7412 Jul 13 18:42	0°♐		asc. node	7413 Jun 27 15:08	13°♏37'17	
evening rise	7412 Jul 18 03:07	9°♐16'54		evening rise	7413 Jul 02 11:38	23°♏43'31	
	7412 Jul 28 22:17	0°♑			7413 Jul 05 13:36	0°♐	
evening max el	7412 Aug 08 03:12	13°♑31'30	22°06'33	evening max el	7413 Jul 21 02:53	24°♐13'14	20°39'04
desc. node	7412 Aug 14 21:45	18°♑27'50		retrograde	7413 Aug 01 10:02	29°♐47'57	
retrograde	7412 Aug 20 22:00	19°♑52'32		desc. node	7413 Aug 01 18:49	29°♐47'37	
evening set	7412 Aug 23 21:24	19°♑32'54		evening set	7413 Aug 03 11:48	29°♐37'27	
min. Earth dist.	7412 Sep 01 08:29	15°♑53'14	0.54890 AU	inferior conj	7413 Aug 12 17:28	25°♐40'28	-3°13'03
inferior conj	7412 Sep 02 00:40	15°♑30'30	-4°46'00	minimum elong	7413 Aug 12 08:59	25°♐52'38	3°10'17
minimum elong	7412 Sep 01 16:13	15°♑42'22	4°44'17	min. Earth dist.	7413 Aug 13 18:14	25°♐04'59	0.54792 AU
morning rise	7412 Sep 10 12:35	11°♑41'43		morning rise	7413 Aug 21 05:54	21°♐38'34	
direct	7412 Sep 13 20:35	11°♑16'59		direct	7413 Aug 25 05:26	21°♐04'37	
morning max el	7412 Sep 25 17:44	16°♑51'45	21°33'41	morning max el	7413 Sep 07 10:09	27°♐25'41	23°16'01
	7412 Oct 05 21:32	0°♒			7413 Sep 09 22:59	0°♑	
asc. node	7412 Oct 06 17:33	1°♒23'07		asc. node	7413 Sep 23 14:33	20°♑16'19	
morning set	7412 Oct 16 05:27	19°♒37'04			7413 Sep 28 13:34	0°♒	
	7412 Oct 21 03:39	0°♓		morning set	7413 Sep 30 16:46	4°♒27'21	
superior conj	7412 Oct 23 11:07	4°♓51'16	1°41'28	superior conj	7413 Oct 07 16:22	19°♒29'07	1°40'48
minimum elong	7412 Oct 23 11:38	4°♓54'00	1°41'30	minimum elong	7413 Oct 07 15:39	19°♒25'15	1°40'49
max. Earth dist.	7412 Oct 27 15:02	13°♓23'21	1.34978 AU	max. Earth dist.	7413 Oct 10 11:04	25°♒24'14	1.33506 AU
evening rise	7412 Oct 31 21:08	21°♓42'49			7413 Oct 12 16:02	0°♓	
	7412 Nov 05 08:46	0°♈		evening rise	7413 Oct 15 08:49	5°♓27'33	
desc. node	7412 Nov 10 20:46	9°♈28'51		desc. node	7413 Oct 28 17:49	29°♓31'55	
	7412 Nov 24 13:11	0°♉			7413 Oct 29 00:48	0°♈	
evening max el	7412 Dec 06 03:27	13°♉32'25	26°43'01	evening max el	7413 Nov 18 16:11	27°♈00'19	27°19'25
retrograde	7412 Dec 19 05:01	20°♉49'12			7413 Nov 22 02:52	0°♉	
evening set	7412 Dec 25 17:26	18°♉13'33		retrograde	7413 Dec 02 04:06	4°♉19'22	
min. Earth dist.	7412 Dec 29 18:57	14°♉07'51	0.66044 AU	evening set	7413 Dec 09 02:13	1°♉42'43	
inferior conj	7412 Dec 31 15:39	11°♉56'08	-0°41'32		7413 Dec 11 02:30	30°♌♌	
minimum elong	7412 Dec 31 16:49	11°♉52'41	0°40'57	min. Earth dist.	7413 Dec 12 22:11	28°♈10'59	0.64580 AU
asc. node	7413 Jan 02 16:52	9°♉35'41		inferior conj	7413 Dec 15 06:38	25°♈39'16	-1°46'19
morning rise	7413 Jan 06 17:06	6°♉15'11		minimum elong	7413 Dec 15 09:51	25°♈30'36	1°44'55
direct	7413 Jan 09 14:12	5°♉29'09		asc. node	7413 Dec 20 13:55	20°♈50'33	
morning max el	7413 Jan 16 02:29	8°♉59'10	18°19'50	morning rise	7413 Dec 21 18:56	20°♈12'11	



































































































































direct	7413 Dec 24 08:13	19° $\text{♄}$ 38'29		morning max el	7414 Dec 14 12:11	6° $\text{♄}$ 55'41	17°48'26
morning max el	7413 Dec 30 19:02	23° $\text{♄}$ 01'54	17°55'23		7414 Dec 29 13:48	0° $\text{♄}$	
	7414 Jan 05 08:08	0° $\text{♄}$		morning set	7414 Dec 30 13:38	1° $\text{♄}$ 44'57	
morning set	7414 Jan 17 02:02	19° $\text{♄}$ 04'00					
	7414 Jan 23 15:39	0° $\text{♄}$		superior conj	7415 Jan 11 05:58	21° $\text{♄}$ 54'12	0°02'28
desc. node	7414 Jan 24 17:05	1° $\text{♄}$ 44'28		minimum elong	7415 Jan 11 06:13	21° $\text{♄}$ 55'16	0°02'32
				behind sun begin	7415 Jan 10 21:10	21° $\text{♄}$ 17'22	
superior conj	7414 Jan 30 16:50	11° $\text{♄}$ 27'06	-0°41'59	behind sun end	7415 Jan 11 15:17	22° $\text{♄}$ 33'05	
minimum elong	7414 Jan 30 11:55	11° $\text{♄}$ 07'26	0°41'14	desc. node	7415 Jan 11 14:05	22° $\text{♄}$ 28'03	
max. Earth dist.	7414 Feb 04 05:44	18° $\text{♄}$ 40'00	1.45028 AU		7415 Jan 16 03:53	0° $\text{♄}$	
	7414 Feb 11 11:46	0° $\text{♄}$		max. Earth dist.	7415 Jan 17 22:48	2° $\text{♄}$ 53'23	1.43897 AU
evening rise	7414 Feb 15 18:44	6° $\text{♄}$ 37'14		evening rise	7415 Jan 26 06:16	15° $\text{♄}$ 59'08	
greatest brilliancy	7414 Mar 02 11:44	28° $\text{♄}$ 50'05	-0.6m		7415 Feb 04 12:01	0° $\text{♄}$	
	7414 Mar 03 06:55	0° $\text{♄}$		evening max el	7415 Feb 25 09:58	28° $\text{♄}$ 06'43	21°10'53
evening max el	7414 Mar 14 11:02	14° $\text{♄}$ 29'02	20°03'28		7415 Feb 27 09:53	0° $\text{♄}$	
asc. node	7414 Mar 18 13:02	17° $\text{♄}$ 50'05		asc. node	7415 Mar 05 10:07	3° $\text{♄}$ 11'15	
retrograde	7414 Mar 22 03:14	18° $\text{♄}$ 56'13		retrograde	7415 Mar 06 01:37	3° $\text{♄}$ 13'25	
evening set	7414 Mar 25 22:31	17° $\text{♄}$ 32'00		evening set	7415 Mar 10 06:30	1° $\text{♄}$ 34'12	
inferior conj	7414 Mar 31 07:06	11° $\text{♄}$ 29'43	3°12'34		7415 Mar 11 22:31	30° $\text{♄}$	
minimum elong	7414 Mar 31 05:32	11° $\text{♄}$ 35'01	3°12'19	inferior conj	7415 Mar 15 14:01	25° $\text{♄}$ 20'14	2°49'45
min. Earth dist.	7414 Apr 01 04:27	10° $\text{♄}$ 17'38	0.67426 AU	minimum elong	7415 Mar 15 11:52	25° $\text{♄}$ 27'41	2°49'16
morning rise	7414 Apr 05 12:19	5° $\text{♄}$ 13'32		min. Earth dist.	7415 Mar 15 22:11	24° $\text{♄}$ 51'57	0.68092 AU
direct	7414 Apr 11 08:02	2° $\text{♄}$ 37'33		morning rise	7415 Mar 20 17:04	19° $\text{♄}$ 06'33	
desc. node	7414 Apr 22 16:37	9° $\text{♄}$ 16'27		direct	7415 Mar 25 23:02	16° $\text{♄}$ 48'09	
morning max el	7414 Apr 23 01:35	9° $\text{♄}$ 38'58	24°55'38	morning max el	7415 Apr 05 10:52	23° $\text{♄}$ 02'58	23°26'33
	7414 May 09 03:25	0° $\text{♄}$		desc. node	7415 Apr 09 13:36	27° $\text{♄}$ 34'44	
	7414 May 27 21:57	0° $\text{♄}$			7415 Apr 11 13:33	0° $\text{♄}$	
morning set	7414 May 29 02:25	2° $\text{♄}$ 05'39			7415 May 02 12:07	0° $\text{♄}$	
max. Earth dist.	7414 Jun 01 17:26	8° $\text{♄}$ 39'31	1.36940 AU	morning set	7415 May 10 12:25	13° $\text{♄}$ 04'24	
				max. Earth dist.	7415 May 14 13:08	19° $\text{♄}$ 59'32	1.39138 AU
					7415 May 20 03:17	0° $\text{♄}$	
superior conj	7414 Jun 08 05:39	21° $\text{♄}$ 03'01	-0°59'46				
minimum elong	7414 Jun 08 09:14	21° $\text{♄}$ 20'31	0°59'14				
	7414 Jun 12 17:38	0° $\text{♄}$		superior conj	7415 May 22 02:33	3° $\text{♄}$ 38'33	-1°29'47
asc. node	7414 Jun 14 12:10	3° $\text{♄}$ 34'16		minimum elong	7415 May 22 07:46	4° $\text{♄}$ 02'52	1°29'10
evening rise	7414 Jun 16 15:13	7° $\text{♄}$ 51'22		evening rise	7415 May 31 11:03	21° $\text{♄}$ 33'09	
	7414 Jun 28 23:50	0° $\text{♄}$		asc. node	7415 Jun 01 09:12	23° $\text{♄}$ 20'15	
evening max el	7414 Jul 03 15:33	5° $\text{♄}$ 36'58	19°30'09		7415 Jun 04 21:18	0° $\text{♄}$	
retrograde	7414 Jul 13 05:42	10° $\text{♄}$ 20'26		evening max el	7415 Jun 16 15:45	17° $\text{♄}$ 43'40	18°41'55
evening set	7414 Jul 15 02:37	10° $\text{♄}$ 10'25		retrograde	7415 Jun 24 18:10	21° $\text{♄}$ 44'13	
desc. node	7414 Jul 19 15:53	8° $\text{♄}$ 32'51		evening set	7415 Jun 26 19:48	21° $\text{♄}$ 29'28	
inferior conj	7414 Jul 23 19:52	6° $\text{♄}$ 04'42	-1°16'07	inferior conj	7415 Jul 04 17:43	17° $\text{♄}$ 06'20	0°32'01
minimum elong	7414 Jul 23 16:25	6° $\text{♄}$ 10'13	1°14'52	minimum elong	7415 Jul 04 18:55	17° $\text{♄}$ 04'05	0°31'29
min. Earth dist.	7414 Jul 26 06:50	4° $\text{♄}$ 30'35	0.55636 AU	desc. node	7415 Jul 06 12:56	15° $\text{♄}$ 45'19	
morning rise	7414 Aug 01 03:43	1° $\text{♄}$ 31'13		min. Earth dist.	7415 Jul 07 23:51	14° $\text{♄}$ 41'33	0.57267 AU
direct	7414 Aug 05 22:27	0° $\text{♄}$ 39'55		morning rise	7415 Jul 12 14:32	11° $\text{♄}$ 55'44	
morning max el	7414 Aug 19 23:01	7° $\text{♄}$ 41'56	25°00'27	direct	7415 Jul 18 06:03	10° $\text{♄}$ 36'55	
	7414 Sep 05 07:44	0° $\text{♄}$		morning max el	7415 Aug 01 14:36	18° $\text{♄}$ 09'07	26°30'14
asc. node	7414 Sep 10 11:35	9° $\text{♄}$ 36'57			7415 Aug 11 12:08	0° $\text{♄}$	
morning set	7414 Sep 15 04:29	19° $\text{♄}$ 17'08		asc. node	7415 Aug 28 08:34	29° $\text{♄}$ 17'20	
	7414 Sep 20 02:53	0° $\text{♄}$			7415 Aug 28 16:52	0° $\text{♄}$	
				morning set	7415 Aug 30 14:55	4° $\text{♄}$ 01'01	
superior conj	7414 Sep 22 01:47	4° $\text{♄}$ 17'32	1°34'06				
minimum elong	7414 Sep 22 00:08	4° $\text{♄}$ 08'31	1°33'59	superior conj	7415 Sep 06 13:15	19° $\text{♄}$ 09'31	1°22'00
max. Earth dist.	7414 Sep 23 14:51	7° $\text{♄}$ 40'08	1.32464 AU	minimum elong	7415 Sep 06 11:06	18° $\text{♄}$ 57'32	1°21'42
evening rise	7414 Sep 29 06:15	19° $\text{♄}$ 38'47		max. Earth dist.	7415 Sep 06 23:40	20° $\text{♄}$ 07'07	1.31872 AU
	7414 Oct 04 11:55	0° $\text{♄}$			7415 Sep 11 11:57	0° $\text{♄}$	
desc. node	7414 Oct 15 14:53	19° $\text{♄}$ 08'17		evening rise	7415 Sep 13 10:33	4° $\text{♄}$ 08'00	
	7414 Oct 23 06:00	0° $\text{♄}$			7415 Sep 27 05:23	0° $\text{♄}$	
evening max el	7414 Nov 01 02:34	10° $\text{♄}$ 01'18	27°27'44	desc. node	7415 Oct 02 11:57	8° $\text{♄}$ 06'30	
retrograde	7414 Nov 14 20:36	17° $\text{♄}$ 17'34		evening max el	7415 Oct 14 08:08	22° $\text{♄}$ 22'29	27°03'20
evening set	7414 Nov 21 23:34	14° $\text{♄}$ 48'56		retrograde	7415 Oct 28 05:35	29° $\text{♄}$ 33'31	
min. Earth dist.	7414 Nov 25 15:46	11° $\text{♄}$ 47'07	0.62803 AU	evening set	7415 Nov 04 05:35	27° $\text{♄}$ 24'13	
inferior conj	7414 Nov 28 11:15	9° $\text{♄}$ 04'41	-2°54'14	min. Earth dist.	7415 Nov 07 22:44	24° $\text{♄}$ 43'15	0.60796 AU
minimum elong	7414 Nov 28 16:38	8° $\text{♄}$ 51'41	2°52'11	inferior conj	7415 Nov 11 02:08	22° $\text{♄}$ 03'20	-4°00'40
morning rise	7414 Dec 05 11:38	3° $\text{♄}$ 54'44		minimum elong	7415 Nov 11 09:02	21° $\text{♄}$ 48'39	3°58'34
asc. node	7414 Dec 07 10:58	3° $\text{♄}$ 30'17		morning rise	7415 Nov 18 14:45	17° $\text{♄}$ 13'31	
direct	7414 Dec 07 19:32	3° $\text{♄}$ 29'41		direct	7415 Nov 20 20:22	16° $\text{♄}$ 53'40	

asc. node	7415 Nov 24 08:01	17° $\mathbb{M}$ 44'11		direct	7416 Nov 02 06:34	29° $\mathbb{A}$ 40'42	
morning max el	7415 Nov 28 02:34	20° $\mathbb{M}$ 31'01	18°00'00		7416 Nov 04 14:52	0° $\mathbb{M}$	
	7415 Dec 05 04:41	0° $\mathbb{A}$		asc. node	7416 Nov 10 05:01	3° $\mathbb{M}$ 24'59	
morning set	7415 Dec 13 18:45	15° $\mathbb{A}$ 15'02		morning max el	7416 Nov 10 10:36	3° $\mathbb{M}$ 38'15	18°31'42
	7415 Dec 21 20:23	0° $\mathbb{B}$		morning set	7416 Nov 26 12:08	29° $\mathbb{M}$ 19'14	
					7416 Nov 26 20:35	0° $\mathbb{A}$	
superior conj	7415 Dec 23 20:43	3° $\mathbb{B}$ 34'35	0°40'21				
minimum elong	7415 Dec 23 23:46	3° $\mathbb{B}$ 47'58	0°40'00	superior conj	7416 Dec 05 09:22	16° $\mathbb{A}$ 17'32	1°08'57
desc. node	7415 Dec 29 11:04	13° $\mathbb{B}$ 13'42		minimum elong	7416 Dec 05 12:53	16° $\mathbb{A}$ 33'51	1°08'36
max. Earth dist.	7415 Dec 31 11:01	16° $\mathbb{B}$ 34'21	1.42214 AU	max. Earth dist.	7416 Dec 12 18:48	29° $\mathbb{A}$ 35'29	1.40179 AU
evening rise	7416 Jan 06 05:10	25° $\mathbb{B}$ 55'43			7416 Dec 13 00:28	0° $\mathbb{B}$	
	7416 Jan 08 19:05	0° $\mathbb{A}$		desc. node	7416 Dec 15 08:04	3° $\mathbb{B}$ 58'10	
	7416 Jan 29 08:28	0° $\mathbb{H}$		evening rise	7416 Dec 17 00:36	6° $\mathbb{B}$ 48'26	
evening max el	7416 Feb 08 03:55	11° $\mathbb{H}$ 46'08	22°27'26		7416 Dec 31 21:16	0° $\mathbb{A}$	
retrograde	7416 Feb 17 22:16	17° $\mathbb{H}$ 33'54		evening max el	7417 Jan 20 18:33	25° $\mathbb{A}$ 29'01	23°47'34
asc. node	7416 Feb 20 07:11	17° $\mathbb{H}$ 05'07			7417 Jan 26 04:28	0° $\mathbb{H}$	
evening set	7416 Feb 22 14:07	15° $\mathbb{H}$ 39'37		retrograde	7417 Jan 31 15:46	1° $\mathbb{H}$ 53'41	
inferior conj	7416 Feb 27 22:28	9° $\mathbb{H}$ 17'11	2°17'37	evening set	7417 Feb 05 19:50	29° $\mathbb{A}$ 44'43	
minimum elong	7416 Feb 27 20:10	9° $\mathbb{H}$ 25'09	2°16'59		7417 Feb 05 12:24	30° $\mathbb{R}$ $\mathbb{A}$	
min. Earth dist.	7416 Feb 27 18:32	9° $\mathbb{H}$ 30'50	0.68335 AU	asc. node	7417 Feb 06 04:15	29° $\mathbb{A}$ 26'17	
morning rise	7416 Mar 04 02:05	3° $\mathbb{H}$ 07'29		min. Earth dist.	7417 Feb 10 15:09	24° $\mathbb{A}$ 10'03	0.68181 AU
direct	7416 Mar 08 17:53	1° $\mathbb{H}$ 10'36		inferior conj	7417 Feb 11 06:33	23° $\mathbb{A}$ 17'34	1°37'06
morning max el	7416 Mar 17 22:54	6° $\mathbb{H}$ 34'01	21°58'27	minimum elong	7417 Feb 11 04:35	23° $\mathbb{A}$ 24'18	1°36'27
desc. node	7416 Mar 26 10:34	16° $\mathbb{H}$ 39'08		morning rise	7417 Feb 16 13:19	17° $\mathbb{A}$ 13'30	
	7416 Apr 04 23:15	0° $\mathbb{Y}$		direct	7417 Feb 20 15:27	15° $\mathbb{A}$ 39'09	
morning set	7416 Apr 19 19:00	22° $\mathbb{Y}$ 45'47		morning max el	7417 Feb 28 17:15	20° $\mathbb{A}$ 15'57	20°38'51
	7416 Apr 24 05:27	0° $\mathbb{B}$			7417 Mar 08 19:12	0° $\mathbb{H}$	
max. Earth dist.	7416 Apr 25 11:28	2° $\mathbb{B}$ 04'47	1.41336 AU	desc. node	7417 Mar 13 07:31	6° $\mathbb{H}$ 16'53	
					7417 Mar 29 03:55	0° $\mathbb{Y}$	
superior conj	7416 May 03 05:05	15° $\mathbb{B}$ 21'43	-1°54'48	morning set	7417 Mar 30 00:19	1° $\mathbb{Y}$ 19'07	
minimum elong	7416 May 03 10:29	15° $\mathbb{B}$ 45'34	1°54'26	max. Earth dist.	7417 Apr 07 17:10	15° $\mathbb{Y}$ 06'18	1.43256 AU
	7416 May 11 07:04	0° $\mathbb{H}$					
evening rise	7416 May 13 19:32	4° $\mathbb{H}$ 39'55		superior conj	7417 Apr 14 08:32	26° $\mathbb{Y}$ 01'36	-2°09'33
asc. node	7416 May 18 06:16	12° $\mathbb{H}$ 50'28		minimum elong	7417 Apr 14 10:58	26° $\mathbb{Y}$ 11'51	2°09'33
	7416 May 29 13:50	0° $\mathbb{B}$			7417 Apr 16 17:07	0° $\mathbb{B}$	
evening max el	7416 May 29 23:55	0° $\mathbb{B}$ 25'23	18°14'03	evening rise	7417 Apr 26 12:16	17° $\mathbb{B}$ 00'57	
retrograde	7416 Jun 06 01:24	3° $\mathbb{B}$ 58'19			7417 May 03 22:55	0° $\mathbb{H}$	
evening set	7416 Jun 08 10:31	3° $\mathbb{B}$ 34'53		asc. node	7417 May 05 03:19	1° $\mathbb{H}$ 58'23	
	7416 Jun 14 05:08	30° $\mathbb{R}$ $\mathbb{H}$		evening max el	7417 May 13 12:13	13° $\mathbb{H}$ 31'17	18°05'44
inferior conj	7416 Jun 15 13:13	28° $\mathbb{H}$ 51'20	1°53'46	retrograde	7417 May 20 00:28	16° $\mathbb{H}$ 52'42	
minimum elong	7416 Jun 15 16:18	28° $\mathbb{H}$ 44'35	1°52'45	evening set	7417 May 22 16:54	16° $\mathbb{H}$ 18'00	
min. Earth dist.	7416 Jun 18 22:44	25° $\mathbb{H}$ 55'01	0.59376 AU	inferior conj	7417 May 29 03:43	11° $\mathbb{H}$ 14'15	2°47'00
desc. node	7416 Jun 22 09:58	23° $\mathbb{H}$ 23'46		minimum elong	7417 May 29 06:32	11° $\mathbb{H}$ 07'11	2°46'19
morning rise	7416 Jun 22 19:03	23° $\mathbb{H}$ 10'19		min. Earth dist.	7417 Jun 01 05:19	8° $\mathbb{H}$ 10'48	0.61618 AU
direct	7416 Jun 29 03:23	21° $\mathbb{H}$ 19'01		morning rise	7417 Jun 04 18:09	5° $\mathbb{H}$ 13'11	
morning max el	7416 Jul 13 12:17	29° $\mathbb{H}$ 09'44	27°30'56	desc. node	7417 Jun 09 06:59	3° $\mathbb{H}$ 07'20	
	7416 Jul 14 08:18	0° $\mathbb{B}$		direct	7417 Jun 11 11:36	2° $\mathbb{H}$ 52'42	
	7416 Aug 04 09:21	0° $\mathbb{Q}$		morning max el	7417 Jun 25 16:20	10° $\mathbb{H}$ 52'48	27°54'45
morning set	7416 Aug 13 22:26	18° $\mathbb{Q}$ 34'04			7417 Jul 10 15:20	0° $\mathbb{B}$	
asc. node	7416 Aug 14 05:34	19° $\mathbb{Q}$ 11'28			7417 Jul 27 15:38	0° $\mathbb{Q}$	
	7416 Aug 19 05:43	0° $\mathbb{M}$		morning set	7417 Jul 29 01:03	2° $\mathbb{Q}$ 49'37	
max. Earth dist.	7416 Aug 20 10:10	2° $\mathbb{M}$ 37'07	1.31731 AU	asc. node	7417 Aug 01 02:34	9° $\mathbb{Q}$ 13'37	
				max. Earth dist.	7417 Aug 03 18:32	14° $\mathbb{Q}$ 57'49	1.32041 AU
superior conj	7416 Aug 21 01:00	3° $\mathbb{M}$ 59'09	1°04'59				
minimum elong	7416 Aug 20 22:46	3° $\mathbb{M}$ 46'48	1°04'33	superior conj	7417 Aug 05 11:09	18° $\mathbb{Q}$ 39'44	0°43'28
evening rise	7416 Aug 27 19:20	18° $\mathbb{M}$ 48'16		minimum elong	7417 Aug 05 09:20	18° $\mathbb{Q}$ 29'50	0°43'02
	7416 Sep 02 06:31	0° $\mathbb{A}$			7417 Aug 10 15:11	0° $\mathbb{M}$	
desc. node	7416 Sep 18 09:01	26° $\mathbb{A}$ 11'16		evening rise	7417 Aug 12 06:30	3° $\mathbb{M}$ 32'06	
	7416 Sep 21 12:30	0° $\mathbb{M}$			7417 Aug 26 08:28	0° $\mathbb{A}$	
evening max el	7416 Sep 25 06:39	3° $\mathbb{M}$ 55'23	26°05'33	desc. node	7417 Sep 05 06:04	13° $\mathbb{A}$ 00'41	
retrograde	7416 Oct 09 05:13	11° $\mathbb{M}$ 00'22		evening max el	7417 Sep 06 21:30	14° $\mathbb{A}$ 39'51	24°40'35
evening set	7416 Oct 15 15:25	9° $\mathbb{M}$ 21'23		retrograde	7417 Sep 20 17:24	21° $\mathbb{A}$ 37'20	
min. Earth dist.	7416 Oct 19 19:38	6° $\mathbb{M}$ 46'31	0.58719 AU	evening set	7417 Sep 26 00:52	20° $\mathbb{A}$ 34'19	
inferior conj	7416 Oct 22 23:49	4° $\mathbb{M}$ 26'00	-4°56'52	min. Earth dist.	7417 Oct 01 08:37	17° $\mathbb{A}$ 47'19	0.56807 AU
minimum elong	7416 Oct 23 06:07	4° $\mathbb{M}$ 14'19	4°55'38	inferior conj	7417 Oct 04 01:30	16° $\mathbb{A}$ 03'12	-5°28'31
morning rise	7416 Oct 30 23:06	29° $\mathbb{A}$ 58'30		minimum elong	7417 Oct 04 03:26	16° $\mathbb{A}$ 00'04	5°28'24
	7416 Oct 30 20:46	30° $\mathbb{R}$ $\mathbb{A}$		morning rise	7417 Oct 12 08:12	11° $\mathbb{A}$ 57'57	

direct	7417 Oct 14 22:20	11°♄39'26		minimum elong	7418 Sep 14 02:28	27°♄00'57	5°16'38
morning max el	7417 Oct 24 08:44	16°♄06'52	19°25'17	morning rise	7418 Sep 22 18:27	23°♄03'21	
asc. node	7417 Oct 28 02:00	20°♄17'44		direct	7418 Sep 25 19:01	22°♄41'49	
	7417 Nov 03 08:49	0°♄		morning max el	7418 Oct 06 18:33	27°♄49'25	20°41'07
morning set	7417 Nov 10 13:52	13°♄46'10			7418 Oct 08 21:42	0°♄	
				asc. node	7418 Oct 14 23:00	8°♄07'26	
superior conj	7417 Nov 18 14:43	29°♄48'35	1°28'08	morning set	7418 Oct 25 21:00	28°♄27'12	
minimum elong	7417 Nov 18 17:23	0°♄01'38	1°27'58		7418 Oct 26 14:59	0°♄	
	7417 Nov 18 17:03	0°♄					
max. Earth dist.	7417 Nov 25 00:31	11°♄57'49	1.38025 AU	superior conj	7418 Nov 02 08:07	13°♄54'11	1°38'46
evening rise	7417 Nov 28 18:09	18°♄40'10		minimum elong	7418 Nov 02 09:27	14°♄00'57	1°38'47
desc. node	7417 Dec 02 05:06	24°♄37'45		max. Earth dist.	7418 Nov 07 08:27	23°♄54'36	1.36000 AU
	7417 Dec 05 10:43	0°♄			7418 Nov 10 13:06	0°♄	
	7417 Dec 26 03:21	0°♄		evening rise	7418 Nov 11 07:08	1°♄23'55	
evening max el	7418 Jan 03 07:42	9°♄15'14	25°04'43	desc. node	7418 Nov 19 02:09	15°♄07'47	
retrograde	7418 Jan 15 05:05	16°♄08'42			7418 Nov 28 12:48	0°♄	
evening set	7418 Jan 20 22:09	13°♄46'25		evening max el	7418 Dec 16 20:37	23°♄00'36	26°11'47
asc. node	7418 Jan 24 01:17	10°♄29'10			7418 Dec 27 15:52	0°♄	
min. Earth dist.	7418 Jan 25 09:49	8°♄46'18	0.67641 AU	retrograde	7418 Dec 29 13:34	0°♄12'29	
inferior conj	7418 Jan 26 12:31	7°♄18'59	0°48'49		7418 Dec 31 09:35	30°♄	
minimum elong	7418 Jan 26 11:21	7°♄22'46	0°48'26	evening set	7419 Jan 04 19:21	27°♄40'02	
morning rise	7418 Feb 01 00:48	1°♄22'18		min. Earth dist.	7419 Jan 09 00:15	23°♄14'42	0.66730 AU
direct	7418 Feb 04 14:22	0°♄09'14		inferior conj	7419 Jan 10 14:24	21°♄17'15	-0°06'39
morning max el	7418 Feb 11 19:41	4°♄10'30	19°32'30	minimum elong	7419 Jan 10 14:35	21°♄16'43	0°06'29
greatest brilliancy	7418 Feb 24 15:52	21°♄02'46	-0.7m	transit middle	7419 Jan 10 14:35	21°♄16'43	0°06'29
desc. node	7418 Feb 28 04:29	26°♄19'18		transit begin	7419 Jan 10 11:57	21°♄24'49	
	7418 Mar 02 14:42	0°♄		transit end	7419 Jan 10 17:12	21°♄08'38	
morning set	7418 Mar 08 21:45	9°♄38'48		asc. node	7419 Jan 10 22:19	20°♄52'56	
max. Earth dist.	7418 Mar 21 06:12	28°♄55'06	1.44655 AU	morning rise	7419 Jan 16 10:29	15°♄30'04	
	7418 Mar 21 22:35	0°♄		direct	7419 Jan 19 13:00	14°♄35'21	
				morning max el	7419 Jan 26 05:27	18°♄13'35	18°41'38
					7419 Feb 04 07:13	0°♄	
superior conj	7418 Mar 25 11:01	5°♄36'37	-2°08'01	desc. node	7419 Feb 15 01:27	16°♄39'16	
minimum elong	7418 Mar 25 07:01	5°♄20'37	2°07'53	morning set	7419 Feb 16 11:37	18°♄53'32	
evening rise	7418 Apr 08 08:48	28°♄28'00			7419 Feb 23 13:24	0°♄	
	7418 Apr 09 06:43	0°♄		max. Earth dist.	7419 Mar 03 23:47	13°♄12'15	1.45382 AU
asc. node	7418 Apr 22 00:22	20°♄37'08					
evening max el	7418 Apr 27 01:23	26°♄53'10	18°16'16	superior conj	7419 Mar 04 18:46	14°♄26'36	-1°46'21
	7418 May 01 15:08	0°♄		minimum elong	7419 Mar 04 09:30	13°♄50'17	1°45'33
retrograde	7418 May 03 10:50	0°♄17'47			7419 Mar 14 15:31	0°♄	
	7418 May 05 06:19	30°♄		evening rise	7419 Mar 20 05:59	8°♄56'31	
evening set	7418 May 06 10:10	29°♄30'20		greatest brilliancy	7419 Mar 27 19:49	21°♄04'40	-0.9m
inferior conj	7418 May 12 09:14	24°♄07'58	3°15'57		7419 Apr 02 13:33	0°♄	
minimum elong	7418 May 12 10:47	24°♄03'33	3°15'42	asc. node	7419 Apr 08 21:26	8°♄36'49	
min. Earth dist.	7418 May 14 21:13	21°♄19'30	0.63710 AU	evening max el	7419 Apr 10 12:40	10°♄23'45	18°44'56
morning rise	7418 May 18 10:16	17°♄55'55		retrograde	7419 Apr 17 04:14	14°♄04'22	
direct	7418 May 25 04:44	15°♄15'42		evening set	7419 Apr 20 10:39	13°♄03'15	
desc. node	7418 May 27 03:58	15°♄27'56		inferior conj	7419 Apr 26 01:43	7°♄24'05	3°25'52
morning max el	7418 Jun 08 01:00	23°♄16'38	27°40'57	minimum elong	7419 Apr 26 01:51	7°♄23'38	3°25'48
	7418 Jun 14 00:25	0°♄		min. Earth dist.	7419 Apr 27 22:23	5°♄06'28	0.65481 AU
	7418 Jul 03 22:35	0°♄		morning rise	7419 May 01 16:27	1°♄07'28	
morning set	7418 Jul 12 20:28	16°♄41'32			7419 May 03 03:31	30°♄	
max. Earth dist.	7418 Jul 17 20:52	26°♄58'28	1.32814 AU	direct	7419 May 08 05:28	28°♄19'43	
asc. node	7418 Jul 18 23:34	29°♄19'43			7419 May 13 20:09	0°♄	
	7418 Jul 19 07:09	0°♄		desc. node	7419 May 14 00:58	0°♄06'48	
				morning max el	7419 May 21 11:26	6°♄09'54	26°54'26
superior conj	7418 Jul 20 17:53	3°♄05'57	0°17'58		7419 Jun 08 18:27	0°♄	
minimum elong	7418 Jul 20 17:01	3°♄01'19	0°17'42	morning set	7419 Jun 26 05:41	0°♄00'59	
evening rise	7418 Jul 27 18:11	18°♄13'57			7419 Jun 26 05:29	0°♄	
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evening max el	7418 Aug 19 09:04	24°♄55'59	23°02'20				
desc. node	7418 Aug 23 03:08	28°♄06'45		superior conj	7419 Jul 04 19:01	17°♄11'29	-0°10'50
	7418 Aug 26 05:44	0°♄		minimum elong	7419 Jul 04 19:36	17°♄14'34	0°10'48
retrograde	7418 Sep 01 17:23	1°♄36'26		behind sun begin	7419 Jul 04 15:21	16°♄52'23	
evening set	7418 Sep 05 12:39	1°♄04'46		behind sun end	7419 Jul 04 23:51	17°♄36'46	
	7418 Sep 08 12:27	30°♄		asc. node	7419 Jul 05 20:37	19°♄25'38	
min. Earth dist.	7418 Sep 12 17:43	27°♄48'17	0.55374 AU		7419 Jul 10 20:33	0°♄	
inferior conj	7418 Sep 14 07:44	26°♄53'18	-5°17'14				

evening rise	7419 Jul 12 04:25	2°♎47'39		evening rise	7420 Jun 25 11:07	17°♊06'42	
	7419 Jul 27 11:30	0°♎			7420 Jul 02 00:49	0°♎	
evening max el	7419 Aug 01 02:15	5°♎19'53	21°27'28	evening max el	7420 Jul 13 07:30	16°♎18'58	20°07'26
desc. node	7419 Aug 10 00:11	10°♎57'06		retrograde	7420 Jul 23 21:20	21°♎31'20	
retrograde	7419 Aug 13 07:48	11°♎23'36		evening set	7420 Jul 25 19:08	21°♎21'54	
evening set	7419 Aug 15 19:30	11°♎09'25		desc. node	7420 Jul 26 21:15	21°♎08'29	
inferior conj	7419 Aug 25 01:47	7°♎10'46	-4°11'47	inferior conj	7420 Aug 03 21:01	17°♎23'15	-2°24'19
minimum elong	7419 Aug 24 16:25	7°♎23'53	4°09'18	minimum elong	7420 Aug 03 14:23	17°♎33'08	2°21'59
min. Earth dist.	7419 Aug 25 02:55	7°♎09'11	0.54723 AU	min. Earth dist.	7420 Aug 05 14:02	16°♎22'14	0.55032 AU
morning rise	7419 Sep 02 14:17	3°♎18'55		morning rise	7420 Aug 12 08:13	13°♎09'19	
direct	7419 Sep 06 04:08	2°♎51'12		direct	7420 Aug 16 15:34	12°♎28'59	
morning max el	7419 Sep 18 16:22	8°♎46'15	22°16'02	morning max el	7420 Aug 30 06:21	19°♎09'23	24°01'05
asc. node	7419 Oct 01 20:01	26°♎41'04			7420 Sep 08 07:45	0°♎	
	7419 Oct 03 15:54	0°♎		asc. node	7420 Sep 17 17:02	15°♎47'08	
morning set	7419 Oct 10 07:22	13°♎16'12		morning set	7420 Sep 23 19:03	28°♎06'56	
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superior conj	7419 Oct 17 09:57	28°♎23'40	1°41'58	superior conj	7420 Sep 30 17:15	13°♎07'12	1°38'40
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max. Earth dist.	7419 Oct 20 23:19	5°♎48'50	1.34296 AU	evening rise	7420 Oct 08 03:58	28°♎47'50	
evening rise	7419 Oct 25 11:43	14°♎50'12			7420 Oct 08 18:20	0°♎	
	7419 Nov 02 18:25	0°♎		desc. node	7420 Oct 22 20:17	25°♎16'08	
desc. node	7419 Nov 05 23:13	5°♎23'07			7420 Oct 25 21:46	0°♎	
	7419 Nov 23 05:59	0°♎		evening max el	7420 Nov 10 21:46	19°♎57'01	27°26'44
evening max el	7419 Nov 29 09:39	6°♎38'20	27°01'28	retrograde	7420 Nov 24 13:03	27°♎15'29	
retrograde	7419 Dec 12 16:30	13°♎57'53		evening set	7420 Dec 01 13:44	24°♎41'18	
evening set	7419 Dec 19 09:25	11°♎20'40		min. Earth dist.	7420 Dec 05 07:52	21°♎22'39	0.63860 AU
min. Earth dist.	7419 Dec 23 08:20	7°♎29'41	0.65462 AU	inferior conj	7420 Dec 07 21:05	18°♎45'06	-2°14'56
inferior conj	7419 Dec 25 10:07	5°♎08'13	-1°08'25	minimum elong	7420 Dec 08 01:14	18°♎34'23	2°13'13
minimum elong	7419 Dec 25 12:07	5°♎02'31	1°07'29	morning rise	7420 Dec 14 14:24	13°♎24'39	
asc. node	7419 Dec 28 19:20	1°♎34'37		asc. node	7420 Dec 14 16:23	13°♎22'42	
	7419 Dec 30 20:26	30°♎♊		direct	7420 Dec 17 01:00	12°♎55'07	
morning rise	7419 Dec 31 16:00	29°♎32'53		morning max el	7420 Dec 23 13:30	16°♎18'52	17°50'07
direct	7420 Jan 03 09:23	28°♎52'44			7421 Jan 02 07:57	0°♎	
	7420 Jan 06 23:29	0°♎		morning set	7421 Jan 09 05:13	11°♎40'40	
morning max el	7420 Jan 09 20:21	2°♎19'03	18°07'18	desc. node	7421 Jan 18 19:30	27°♎52'34	
morning set	7420 Jan 28 06:37	29°♎36'42			7421 Jan 20 02:25	0°♎	
	7420 Jan 28 12:19	0°♎		superior conj	7421 Jan 21 23:36	3°♎04'54	-0°22'41
desc. node	7420 Feb 01 22:29	7°♎11'55		minimum elong	7421 Jan 21 21:05	2°♎54'35	0°22'14
				max. Earth dist.	7421 Jan 27 13:46	12°♎04'22	1.44630 AU
superior conj	7420 Feb 12 00:51	23°♎20'02	-1°07'55	evening rise	7421 Feb 06 17:16	27°♎54'10	
minimum elong	7420 Feb 11 16:57	22°♎48'51	1°06'53		7421 Feb 08 02:07	0°♎	
max. Earth dist.	7420 Feb 14 19:06	27°♎40'32	1.45372 AU		7421 Feb 28 13:35	0°♎	
	7420 Feb 16 06:42	0°♎		evening max el	7421 Mar 06 22:16	7°♎36'57	20°30'48
evening rise	7420 Feb 28 05:37	18°♎36'10		asc. node	7421 Mar 12 15:32	11°♎51'34	
	7420 Mar 06 14:31	0°♎		retrograde	7421 Mar 14 23:50	12°♎20'01	
greatest brilliancy	7420 Mar 11 23:15	8°♎09'59	-0.7m	evening set	7421 Mar 18 23:03	10°♎49'33	
evening max el	7420 Mar 23 20:03	23°♎59'05	19°30'28	inferior conj	7421 Mar 24 06:57	4°♎42'14	3°04'04
asc. node	7420 Mar 25 18:29	25°♎46'12		minimum elong	7421 Mar 24 05:05	4°♎48'38	3°03'43
retrograde	7420 Mar 31 01:24	28°♎06'40		min. Earth dist.	7421 Mar 24 22:37	3°♎48'39	0.67767 AU
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inferior conj	7420 Apr 09 01:51	20°♎56'56	3°20'55	morning rise	7421 Mar 29 10:54	28°♎27'02	
minimum elong	7420 Apr 09 00:48	21°♎00'22	3°20'47	direct	7421 Apr 04 01:02	25°♎57'35	
min. Earth dist.	7420 Apr 10 07:29	19°♎19'29	0.66846 AU		7421 Apr 12 09:43	0°♎	
morning rise	7420 Apr 14 09:38	14°♎39'51		morning max el	7421 Apr 15 06:05	2°♎39'56	24°18'07
direct	7420 Apr 20 12:37	11°♎56'27		desc. node	7421 Apr 16 19:00	4°♎16'34	
desc. node	7420 Apr 29 21:59	16°♎32'33			7421 May 06 01:31	0°♎	
morning max el	7420 May 02 21:15	19°♎20'16	25°43'27	morning set	7421 May 21 00:21	24°♎15'01	
	7420 May 11 22:42	0°♎			7421 May 24 06:29	0°♎	
	7420 May 31 20:34	0°♎		max. Earth dist.	7421 May 24 16:07	0°♎43'17	1.37857 AU
morning set	7420 Jun 08 00:41	12°♎36'36					
max. Earth dist.	7420 Jun 11 18:44	19°♎36'54	1.35770 AU	superior conj	7421 May 31 17:19	13°♎50'33	-1°12'51
				minimum elong	7421 May 31 21:40	14°♎11'28	1°12'14
superior conj	7420 Jun 17 11:55	0°♎49'00	-0°41'44	asc. node	7421 Jun 08 14:42	29°♎20'12	
minimum elong	7420 Jun 17 14:22	1°♎01'16	0°41'20		7421 Jun 08 22:44	0°♎	
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asc. node	7420 Jun 21 17:39	9°♎27'03					





























































































































evening rise	7421 Jun 09 11:48	1°  04'41		evening rise	7422 May 24 03:15	14°  32'49	
evening max el	7421 Jun 26 01:31	28°  02'03	19°07'08	asc. node	7422 May 26 11:43	19°  00'07	
	7421 Jun 28 08:18	0°  0			7422 Jun 01 14:30	0°  0	
retrograde	7421 Jul 04 23:02	2°  025'12		evening max el	7422 Jun 09 05:29	10°  024'13	18°27'32
evening set	7421 Jul 06 21:30	2°  013'36		retrograde	7422 Jun 16 19:47	14°  011'11	
	7421 Jul 12 05:30	30°  08		evening set	7422 Jun 19 00:34	13°  053'04	
desc. node	7421 Jul 13 18:17	29°  02'27		inferior conj	7422 Jun 26 13:57	9°  020'56	1°10'19
inferior conj	7421 Jul 15 06:52	28°  01'14	-0°27'42	minimum elong	7422 Jun 26 16:18	9°  016'15	1°09'25
minimum elong	7421 Jul 15 05:41	28°  03'15	0°27'20	min. Earth dist.	7422 Jun 29 23:03	6°  040'13	0.58130 AU
min. Earth dist.	7421 Jul 18 04:07	26°  04'00	0.56251 AU	desc. node	7422 Jun 30 15:19	6°  009'59	
morning rise	7421 Jul 23 10:47	23°  012'13		morning rise	7422 Jul 04 04:41	3°  056'16	
direct	7421 Jul 28 14:45	22°  010'09		direct	7422 Jul 10 04:01	2°  024'09	
morning max el	7421 Aug 11 19:28	29°  025'53	25°41'23	morning max el	7422 Jul 24 13:26	10°  004'46	27°00'23
	7421 Aug 12 09:29	0°  0			7422 Aug 08 20:31	0°  0	
	7421 Sep 01 21:20	0°  0		asc. node	7422 Aug 22 11:05	25°  003'52	
asc. node	7421 Sep 04 14:04	5°  017'06		morning set	7422 Aug 23 15:48	27°  034'15	
morning set	7421 Sep 08 06:24	12°  054'37			7422 Aug 24 19:13	0°  0	
superior conj	7421 Sep 15 03:45	27°  057'38	1°29'36	superior conj	7422 Aug 30 15:31	12°  048'46	1°15'21
minimum elong	7421 Sep 15 01:50	27°  047'04	1°29'24	minimum elong	7422 Aug 30 13:16	12°  036'17	1°14'59
max. Earth dist.	7421 Sep 16 05:09	0°  017'27	1.32162 AU	max. Earth dist.	7422 Aug 30 15:16	12°  047'20	1.31756 AU
	7421 Sep 16 01:59	0°  0		evening rise	7422 Sep 06 11:05	27°  042'01	
evening rise	7421 Sep 22 04:38	13°  007'42			7422 Sep 07 13:18	0°  0	
	7421 Sep 30 21:00	0°  0			7422 Sep 24 07:37	0°  0	
desc. node	7421 Oct 09 17:19	14°  037'43		desc. node	7422 Sep 26 14:22	3°  015'20	
	7421 Oct 21 13:47	0°  0		evening max el	7422 Oct 06 09:24	14°  044'28	26°42'40
evening max el	7421 Oct 24 06:39	2°  043'19	27°21'32	retrograde	7422 Oct 20 07:10	21°  052'38	
retrograde	7421 Nov 07 02:12	9°  056'30		evening set	7422 Oct 27 03:06	19°  054'50	
evening set	7421 Nov 14 05:03	7°  034'59		min. Earth dist.	7422 Oct 30 23:15	17°  018'56	0.59910 AU
min. Earth dist.	7421 Nov 17 21:00	4°  043'18	0.61977 AU	inferior conj	7422 Nov 03 04:16	14°  045'06	-4°26'27
inferior conj	7421 Nov 20 20:17	2°  000'27	-3°23'00	minimum elong	7422 Nov 03 11:17	14°  031'01	4°24'37
minimum elong	7421 Nov 21 02:27	1°  046'18	3°20'49	morning rise	7422 Nov 10 21:44	10°  004'46	
	7421 Nov 23 02:45	30°  08		direct	7422 Nov 13 03:44	9°  046'04	
morning rise	7421 Nov 28 01:54	26°  058'20		asc. node	7422 Nov 18 10:28	11°  035'02	
direct	7421 Nov 30 08:30	26°  035'48		morning max el	7422 Nov 20 17:55	13°  030'25	18°10'59
asc. node	7421 Dec 01 13:26	26°  042'20			7422 Dec 01 21:46	0°  0	
morning max el	7421 Dec 07 05:47	0°  005'28	17°50'55	morning set	7422 Dec 06 11:56	8°  031'49	
	7421 Dec 07 03:33	0°  0					
morning set	7421 Dec 23 01:00	24°  044'55		superior conj	7422 Dec 16 00:32	26°  013'14	0°53'39
	7421 Dec 25 23:12	0°  0		minimum elong	7422 Dec 16 04:00	26°  028'51	0°53'16
superior conj	7422 Jan 02 23:45	14°  003'27	0°19'36		7422 Dec 18 03:16	0°  0	
minimum elong	7422 Jan 03 01:32	14°  011'01	0°19'25	max. Earth dist.	7422 Dec 23 16:06	9°  034'34	1.41378 AU
desc. node	7422 Jan 05 16:29	18°  037'25		desc. node	7422 Dec 23 13:28	9°  023'29	
max. Earth dist.	7422 Jan 10 05:26	26°  007'33	1.43246 AU	evening rise	7422 Dec 28 15:05	17°  036'52	
	7422 Jan 12 14:57	0°  0			7423 Jan 05 09:24	0°  0	
evening rise	7422 Jan 17 08:02	7°  027'17		evening max el	7423 Jan 26 23:45	0°  0	
	7422 Feb 01 08:21	0°  0		retrograde	7423 Jan 31 11:14	4°  056'32	23°01'20
evening max el	7422 Feb 17 19:01	21°  015'36	21°42'40	asc. node	7423 Feb 10 17:04	11°  000'54	
retrograde	7422 Feb 26 21:33	26°  039'19		evening set	7423 Feb 14 09:39	9°  052'26	
asc. node	7422 Feb 27 12:35	26°  037'17		inferior conj	7423 Feb 15 14:04	8°  059'59	
evening set	7422 Mar 03 07:02	24°  053'31		minimum elong	7423 Feb 20 23:14	2°  034'53	2°01'25
inferior conj	7422 Mar 08 14:43	18°  035'39	2°37'10	min. Earth dist.	7423 Feb 20 21:02	2°  042'32	2°00'45
minimum elong	7422 Mar 08 12:27	18°  043'32	2°36'36		7423 Feb 20 14:17	3°  005'51	0.68321 AU
min. Earth dist.	7422 Mar 08 17:35	18°  025'42	0.68251 AU		7423 Feb 22 21:08	30°  08	
morning rise	7422 Mar 13 17:43	12°  023'46		morning rise	7423 Feb 26 03:55	26°  027'34	
direct	7422 Mar 18 17:41	10°  014'18		direct	7423 Mar 02 13:44	24°  040'32	
morning max el	7422 Mar 28 16:03	16°  006'31	22°48'28	morning max el	7423 Mar 11 06:36	29°  043'01	21°23'13
desc. node	7422 Apr 03 15:57	22°  056'16			7423 Mar 11 13:20	0°  0	
	7422 Apr 09 01:20	0°  0		desc. node	7423 Mar 21 12:55	12°  016'30	
	7422 Apr 29 02:07	0°  0			7423 Apr 02 18:34	0°  0	
morning set	7422 May 01 22:59	4°  041'10		morning set	7423 Apr 11 17:49	13°  050'43	
max. Earth dist.	7422 May 06 12:42	12°  022'20	1.40097 AU	max. Earth dist.	7423 Apr 18 14:06	24°  052'39	1.42207 AU
					7423 Apr 21 16:08	0°  0	
superior conj	7422 May 14 06:57	26°  005'08	-1°41'17	superior conj	7423 Apr 26 00:05	7°  022'05	-2°02'40
minimum elong	7422 May 14 12:30	26°  030'30	1°40'44	minimum elong	7423 Apr 26 04:42	7°  042'03	2°02'28
	7422 May 16 10:06	0°  0		evening rise	7423 May 07 05:36	27°  021'42	

	7423 May 08 16:29	0°♊		asc. node	7424 Apr 29 05:47	27°♊18'36	
asc. node	7423 May 13 08:44	8°♊21'45			7424 May 01 00:17	0°♊	
evening max el	7423 May 23 15:44	23°♊16'56	18°08'05	evening max el	7424 May 06 04:48	6°♊31'03	18°07'59
retrograde	7423 May 30 10:27	26°♊43'28		retrograde	7424 May 12 14:47	9°♊52'11	
evening set	7423 Jun 01 22:35	26°♊15'37		evening set	7424 May 15 10:06	9°♊12'19	
inferior conj	7423 Jun 08 18:02	21°♊23'12	2°19'39	inferior conj	7424 May 21 15:28	4°♊00'46	3°01'54
minimum elong	7423 Jun 08 21:11	21°♊15'52	2°18'44	minimum elong	7424 May 21 17:48	3°♊54'35	3°01'25
min. Earth dist.	7423 Jun 12 01:09	18°♊20'44	0.60332 AU	min. Earth dist.	7424 May 24 11:51	1°♊00'56	0.62538 AU
morning rise	7423 Jun 15 17:08	15°♊32'00			7424 May 25 12:37	30°♊	
desc. node	7423 Jun 17 12:20	14°♊32'59		morning rise	7424 May 27 23:50	27°♊53'56	
direct	7423 Jun 22 06:09	13°♊27'29		desc. node	7424 Jun 03 09:20	25°♊23'45	
morning max el	7423 Jul 06 14:11	21°♊23'51	27°45'49	direct	7424 Jun 03 18:42	25°♊23'17	
	7423 Jul 14 01:54	0°♊			7424 Jun 14 02:06	0°♊	
	7423 Aug 01 20:27	0°♊		morning max el	7424 Jun 17 20:32	3°♊25'48	27°53'12
morning set	7423 Aug 07 21:27	12°♊00'34			7424 Jul 07 14:29	0°♊	
asc. node	7423 Aug 09 08:04	15°♊01'57		morning set	7424 Jul 21 21:21	26°♊07'38	
max. Earth dist.	7423 Aug 14 01:18	25°♊14'29	1.31801 AU		7424 Jul 23 18:41	0°♊	
				asc. node	7424 Jul 26 05:03	5°♊06'45	
superior conj	7423 Aug 15 02:46	27°♊34'56	0°56'22	max. Earth dist.	7424 Jul 27 07:24	7°♊27'37	1.32306 AU
minimum elong	7423 Aug 15 00:40	27°♊23'17	0°55'55				
	7423 Aug 16 05:01	0°♊		superior conj	7424 Jul 29 11:45	12°♊10'52	0°33'06
evening rise	7423 Aug 21 21:05	12°♊24'05		minimum elong	7424 Jul 29 10:17	12°♊02'52	0°32'43
	7423 Aug 30 17:06	0°♊		evening rise	7424 Aug 05 08:43	27°♊08'11	
desc. node	7423 Sep 13 11:26	20°♊51'02			7424 Aug 06 17:07	0°♊	
evening max el	7423 Sep 18 04:12	25°♊54'30	25°32'03		7424 Aug 24 01:00	0°♊	
	7423 Sep 23 06:20	0°♊		evening max el	7424 Aug 29 16:50	6°♊23'56	23°59'30
retrograde	7423 Oct 02 02:30	2°♊57'48		desc. node	7424 Aug 30 08:29	7°♊00'52	
evening set	7423 Oct 08 02:55	1°♊33'38		retrograde	7424 Sep 12 09:50	13°♊16'21	
	7423 Oct 11 00:33	30°♊		evening set	7424 Sep 17 02:06	12°♊28'13	
min. Earth dist.	7423 Oct 12 16:14	28°♊56'03	0.57857 AU	min. Earth dist.	7424 Sep 23 03:27	9°♊30'15	0.56112 AU
inferior conj	7423 Oct 15 17:34	26°♊48'45	-5°14'24	inferior conj	7424 Sep 25 10:39	8°♊05'54	-5°30'05
minimum elong	7423 Oct 15 22:33	26°♊40'04	5°13'43	minimum elong	7424 Sep 25 09:38	8°♊07'29	5°30'03
morning rise	7423 Oct 23 20:32	22°♊31'28		morning rise	7424 Oct 03 19:22	4°♊08'18	
direct	7423 Oct 26 06:08	22°♊13'47		direct	7424 Oct 06 13:20	3°♊48'53	
morning max el	7423 Nov 03 22:14	26°♊22'47	18°51'53	morning max el	7424 Oct 16 15:23	8°♊32'53	19°54'54
asc. node	7423 Nov 05 07:29	27°♊48'21		asc. node	7424 Oct 22 04:30	15°♊07'18	
	7423 Nov 07 03:40	0°♊			7424 Oct 30 21:08	0°♊	
morning set	7423 Nov 20 09:16	22°♊46'45		morning set	7424 Nov 03 13:36	7°♊20'23	
	7423 Nov 24 01:25	0°♊					
superior conj	7423 Nov 28 20:56	9°♊18'49	1°18'10	superior conj	7424 Nov 11 07:55	23°♊05'54	1°33'36
minimum elong	7423 Nov 29 00:12	9°♊34'18	1°17'54	minimum elong	7424 Nov 11 10:03	23°♊16'29	1°33'32
max. Earth dist.	7423 Dec 05 22:08	22°♊16'50	1.39253 AU		7424 Nov 14 20:19	0°♊	
evening rise	7423 Dec 09 20:02	29°♊05'09		max. Earth dist.	7424 Nov 17 03:48	4°♊24'12	1.37133 AU
desc. node	7423 Dec 10 10:29	0°♊06'33		evening rise	7424 Nov 20 22:21	11°♊20'24	
	7423 Dec 10 08:57	0°♊		desc. node	7424 Nov 26 07:32	20°♊42'42	
	7423 Dec 29 19:57	0°♊			7424 Dec 02 00:21	0°♊	
evening max el	7424 Jan 14 00:52	18°♊40'42	24°21'04	evening max el	7424 Dec 24 04:24	0°♊	
retrograde	7424 Jan 25 09:05	25°♊19'36			7424 Dec 26 13:54	2°♊27'30	25°34'57
evening set	7424 Jan 30 18:34	23°♊04'40		retrograde	7425 Jan 07 20:31	9°♊30'20	
asc. node	7424 Feb 01 06:42	21°♊37'41		evening set	7425 Jan 13 18:56	7°♊03'30	
min. Earth dist.	7424 Feb 04 10:25	17°♊44'32	0.67997 AU	min. Earth dist.	7425 Jan 18 03:42	2°♊17'51	0.67297 AU
inferior conj	7424 Feb 05 06:40	16°♊36'30	1°17'34	asc. node	7425 Jan 18 03:45	2°♊17'43	
minimum elong	7424 Feb 05 04:59	16°♊42'11	1°17'00	inferior conj	7425 Jan 19 11:10	0°♊37'17	0°26'10
morning rise	7424 Feb 10 15:30	10°♊35'14		minimum elong	7425 Jan 19 10:30	0°♊39'23	0°25'59
direct	7424 Feb 14 12:01	9°♊10'22			7425 Jan 19 22:51	30°♊	
morning max el	7424 Feb 22 04:24	13°♊30'59	20°08'45	morning rise	7425 Jan 25 02:29	24°♊44'04	
	7424 Mar 05 23:20	0°♊		direct	7425 Jan 28 11:07	23°♊39'09	
desc. node	7424 Mar 07 09:53	2°♊05'54		morning max el	7425 Feb 04 10:03	27°♊29'24	19°08'48
morning set	7424 Mar 20 16:49	22°♊09'42			7425 Feb 06 17:28	0°♊	
	7424 Mar 25 17:43	0°♊		greatest brilliancy	7425 Feb 17 22:55	15°♊39'47	-0.7m
max. Earth dist.	7424 Mar 30 22:33	8°♊14'09	1.43925 AU	desc. node	7425 Feb 22 06:53	22°♊16'39	
					7425 Feb 27 06:53	0°♊	
superior conj	7424 Apr 05 16:49	17°♊33'54	-2°11'14	morning set	7425 Feb 27 18:36	0°♊45'22	
minimum elong	7424 Apr 05 16:49	17°♊33'56	2°11'15	max. Earth dist.	7425 Mar 13 13:35	22°♊16'16	1.45057 AU
	7424 Apr 13 03:31	0°♊					
evening rise	7424 Apr 18 14:17	9°♊20'52		superior conj	7425 Mar 16 09:59	26°♊46'11	-2°01'17
				minimum elong	7425 Mar 16 03:10	26°♊19'13	2°00'54

	7425 Mar 18 10:50	0°♿			7426 Mar 11 05:05	0°♿	
evening rise	7425 Mar 31 01:02	20°♿22'43		evening rise	7426 Mar 11 12:31	0°♿29'15	
	7425 Apr 05 21:24	0°♿		greatest brilliancy	7426 Mar 21 11:56	16°♿09'40	-0.8m
asc. node	7425 Apr 16 02:50	15°♿42'13			7426 Mar 31 01:34	0°♿	
evening max el	7425 Apr 19 17:33	19°♿57'56	18°26'21	asc. node	7426 Apr 02 23:54	3°♿22'44	
retrograde	7425 Apr 26 04:28	23°♿27'30		evening max el	7426 Apr 03 03:30	3°♿31'54	19°02'17
evening set	7425 Apr 29 06:50	22°♿34'17		retrograde	7426 Apr 09 23:51	7°♿22'24	
inferior conj	7425 May 05 02:05	17°♿04'46	3°22'11	evening set	7426 Apr 13 09:35	6°♿15'02	
minimum elong	7425 May 05 03:02	17°♿01'58	3°22'02	inferior conj	7426 Apr 18 22:13	0°♿29'09	3°25'21
min. Earth dist.	7425 May 07 07:41	14°♿27'51	0.64516 AU	minimum elong	7426 Apr 18 21:50	0°♿30'25	3°25'17
morning rise	7425 May 10 22:22	10°♿50'25			7426 Apr 19 07:22	30°♿♿	
direct	7425 May 17 15:24	8°♿05'16		min. Earth dist.	7426 Apr 20 12:19	28°♿28'11	0.66121 AU
desc. node	7425 May 21 06:22	8°♿46'56		morning rise	7426 Apr 24 09:39	24°♿12'12	
morning max el	7425 May 31 06:01	16°♿02'51	27°24'38	direct	7426 Apr 30 18:51	21°♿25'13	
	7425 Jun 11 17:35	0°♿		desc. node	7426 May 08 03:22	24°♿15'46	
	7425 Jun 30 08:58	0°♿		morning max el	7426 May 13 16:23	29°♿05'08	26°26'39
morning set	7425 Jul 05 12:49	9°♿46'45			7426 May 14 13:39	0°♿	
max. Earth dist.	7425 Jul 10 05:47	19°♿15'48	1.33286 AU		7426 Jun 05 13:39	0°♿	
asc. node	7425 Jul 13 02:04	25°♿13'18		morning set	7426 Jun 18 16:31	22°♿49'01	
					7426 Jun 22 10:18	0°♿	
superior conj	7425 Jul 13 16:24	26°♿29'20	0°06'06	max. Earth dist.	7426 Jun 22 17:49	0°♿36'54	1.34744 AU
minimum elong	7425 Jul 13 16:05	26°♿27'42	0°05'58				
behind sun begin	7425 Jul 13 10:58	26°♿00'30		superior conj	7426 Jun 27 14:24	10°♿24'04	-0°23'45
behind sun end	7425 Jul 13 21:12	26°♿54'56		minimum elong	7426 Jun 27 15:44	10°♿30'57	0°23'35
	7425 Jul 15 07:51	0°♿		asc. node	7426 Jun 29 23:06	15°♿17'52	
evening rise	7425 Jul 20 20:00	11°♿47'24		evening rise	7426 Jul 05 05:03	26°♿16'01	
	7425 Jul 30 03:08	0°♿			7426 Jul 07 00:35	0°♿	
evening max el	7425 Aug 11 05:52	16°♿39'27	22°20'45	evening max el	7426 Jul 24 03:38	27°♿15'25	20°50'59
desc. node	7425 Aug 17 05:33	21°♿13'15			7426 Jul 27 08:55	0°♿	
retrograde	7425 Aug 24 04:31	23°♿05'55		desc. node	7426 Aug 04 02:36	2°♿57'12	
evening set	7425 Aug 27 08:50	22°♿43'38		retrograde	7426 Aug 04 16:51	2°♿58'04	
min. Earth dist.	7425 Sep 04 12:15	19°♿10'28	0.54992 AU	evening set	7426 Aug 06 20:37	2°♿46'55	
inferior conj	7425 Sep 05 10:22	18°♿39'17	-4°56'01		7426 Aug 14 00:48	30°♿♿	
minimum elong	7425 Sep 05 02:34	18°♿50'18	4°54'36	inferior conj	7426 Aug 16 02:58	28°♿49'50	-3°29'28
morning rise	7425 Sep 13 22:01	14°♿50'50		minimum elong	7426 Aug 15 18:02	29°♿02'31	3°26'42
direct	7425 Sep 17 04:09	14°♿26'57		min. Earth dist.	7426 Aug 16 21:39	28°♿23'17	0.54743 AU
morning max el	7425 Sep 28 19:39	19°♿54'24	21°19'30	morning rise	7426 Aug 24 15:32	24°♿51'20	
	7425 Oct 06 23:59	0°♿		direct	7426 Aug 28 12:26	24°♿19'16	
asc. node	7425 Oct 09 01:31	3°♿16'59			7426 Sep 09 22:34	0°♿	
morning set	7425 Oct 18 22:21	22°♿05'13		morning max el	7426 Sep 10 13:16	0°♿33'34	23°00'21
	7425 Oct 22 16:50	0°♿		asc. node	7426 Sep 25 22:31	22°♿05'23	
					7426 Sep 30 01:04	0°♿	
superior conj	7425 Oct 26 05:16	7°♿22'12	1°40'58	morning set	7426 Oct 03 09:28	6°♿55'25	
minimum elong	7425 Oct 26 06:00	7°♿26'00	1°41'01				
max. Earth dist.	7425 Oct 30 14:28	16°♿17'47	1.35232 AU	superior conj	7426 Oct 10 09:41	21°♿58'09	1°41'19
evening rise	7425 Nov 03 18:27	24°♿23'13		minimum elong	7426 Oct 10 09:08	21°♿55'14	1°41'20
	7425 Nov 06 19:07	0°♿		max. Earth dist.	7426 Oct 13 09:12	28°♿16'57	1.33694 AU
desc. node	7425 Nov 13 04:36	11°♿07'07			7426 Oct 14 04:59	0°♿	
	7425 Nov 25 14:09	0°♿		evening rise	7426 Oct 18 04:22	8°♿03'22	
evening max el	7425 Dec 09 03:09	16°♿11'25	26°35'36		7426 Oct 30 07:35	0°♿	
retrograde	7425 Dec 22 02:34	23°♿27'01		desc. node	7426 Oct 31 01:39	1°♿13'45	
evening set	7425 Dec 28 13:22	20°♿52'03		evening max el	7426 Nov 21 15:57	29°♿42'05	27°15'39
min. Earth dist.	7426 Jan 01 15:45	16°♿41'21	0.66231 AU		7426 Nov 21 23:31	0°♿	
inferior conj	7426 Jan 03 10:44	14°♿33'11	-0°32'07	retrograde	7426 Dec 05 02:39	7°♿01'33	
minimum elong	7426 Jan 03 11:37	14°♿30'31	0°31'39	evening set	7426 Dec 11 23:36	4°♿24'23	
asc. node	7426 Jan 05 00:48	12°♿42'00		min. Earth dist.	7426 Dec 15 20:15	0°♿47'53	0.64817 AU
morning rise	7426 Jan 09 10:43	8°♿50'33			7426 Dec 16 14:01	30°♿♿	
direct	7426 Jan 12 09:12	8°♿02'20		inferior conj	7426 Dec 18 03:01	28°♿18'28	-1°36'14
morning max el	7426 Jan 18 22:16	11°♿34'01	18°25'00	minimum elong	7426 Dec 18 05:55	28°♿10'34	1°34'57
	7426 Feb 01 04:13	0°♿		asc. node	7426 Dec 22 21:52	23°♿46'36	
morning set	7426 Feb 07 20:28	10°♿37'36		morning rise	7426 Dec 24 13:37	22°♿49'17	
desc. node	7426 Feb 09 03:54	12°♿42'52		direct	7426 Dec 27 03:54	22°♿14'03	
	7426 Feb 20 02:07	0°♿		morning max el	7427 Jan 02 14:30	25°♿37'50	17°57'57
					7427 Jan 06 07:27	0°♿	
superior conj	7426 Feb 23 14:35	5°♿31'14	-1°31'37	morning set	7427 Jan 20 03:48	21°♿57'01	
minimum elong	7426 Feb 23 05:02	4°♿53'50	1°30'36		7427 Jan 25 00:20	0°♿	
max. Earth dist.	7426 Feb 24 08:49	6°♿42'37	1.45472 AU	desc. node	7427 Jan 27 00:53	3°♿19'14	

superior conj	7427 Feb 03 01:51	14° $\approx$ 41'15	-0°48'55	behind sun begin	7428 Jan 14 01:34	24° $\approx$ 17'24	
minimum elong	7427 Feb 02 20:05	14° $\approx$ 18'18	0°48'03	behind sun end	7428 Jan 14 19:46	25° $\approx$ 32'57	
max. Earth dist.	7427 Feb 07 04:37	21° $\approx$ 12'32	1.45138 AU		7428 Jan 17 12:44	0° $\approx$	
	7427 Feb 12 19:28	0° $\approx$		max. Earth dist.	7428 Jan 20 21:51	5° $\approx$ 27'55	1.44106 AU
evening rise	7427 Feb 19 05:27	9° $\approx$ 55'28		evening rise	7428 Jan 29 16:24	19° $\approx$ 14'37	
	7427 Mar 04 10:36	0° $\approx$			7428 Feb 05 18:04	0° $\approx$	
greatest brilliancy	7427 Mar 05 13:26	1° $\approx$ 39'01	-0.6m		7428 Feb 27 14:58	0° $\approx$	
evening max el	7427 Mar 17 08:43	17° $\approx$ 08'07	19°54'24	evening max el	7428 Feb 28 08:25	0° $\approx$ 45'29	21°00'11
asc. node	7427 Mar 20 20:59	20° $\approx$ 06'48		asc. node	7428 Mar 06 18:02	5° $\approx$ 39'50	
retrograde	7427 Mar 24 21:57	21° $\approx$ 30'08		retrograde	7428 Mar 07 20:22	5° $\approx$ 46'06	
evening set	7427 Mar 28 15:52	20° $\approx$ 08'12		evening set	7428 Mar 11 23:43	4° $\approx$ 09'13	
inferior conj	7427 Apr 03 00:47	14° $\approx$ 07'50	3°15'04		7428 Mar 15 19:07	30° $\approx$	
minimum elong	7427 Apr 02 23:20	14° $\approx$ 12'40	3°14'53	inferior conj	7428 Mar 17 07:16	27° $\approx$ 56'55	2°53'48
min. Earth dist.	7427 Apr 04 00:13	12° $\approx$ 49'08	0.67291 AU	minimum elong	7428 Mar 17 05:11	28° $\approx$ 04'08	2°53'22
morning rise	7427 Apr 08 06:34	7° $\approx$ 51'16		min. Earth dist.	7428 Mar 17 17:22	27° $\approx$ 21'59	0.68020 AU
direct	7427 Apr 14 04:12	5° $\approx$ 13'10		morning rise	7428 Mar 22 10:27	21° $\approx$ 42'40	
desc. node	7427 Apr 25 00:22	11° $\approx$ 17'54		direct	7428 Mar 27 18:32	19° $\approx$ 21'12	
morning max el	7427 Apr 26 01:56	12° $\approx$ 21'02	25°08'21	morning max el	7428 Apr 07 10:57	25° $\approx$ 43'36	23°39'55
	7427 May 10 06:24	0° $\approx$		desc. node	7428 Apr 10 21:22	29° $\approx$ 27'37	
	7427 May 29 07:27	0° $\approx$			7428 Apr 11 08:29	0° $\approx$	
morning set	7427 Jun 01 04:01	5° $\approx$ 02'22			7428 May 02 19:07	0° $\approx$	
max. Earth dist.	7427 Jun 04 19:24	11° $\approx$ 41'03	1.36628 AU	morning set	7428 May 12 17:44	16° $\approx$ 12'00	
				max. Earth dist.	7428 May 16 15:08	22° $\approx$ 55'53	1.38801 AU
					7428 May 20 13:48	0° $\approx$	
superior conj	7427 Jun 11 02:50	23° $\approx$ 47'17	-0°55'02				
minimum elong	7427 Jun 11 06:07	24° $\approx$ 03'28	0°54'32				
	7427 Jun 14 05:35	0° $\approx$		superior conj	7428 May 24 02:04	6° $\approx$ 30'01	-1°25'27
asc. node	7427 Jun 16 20:08	5° $\approx$ 16'22		minimum elong	7428 May 24 07:06	6° $\approx$ 53'38	1°24'51
evening rise	7427 Jun 19 09:32	10° $\approx$ 27'20		evening rise	7428 Jun 02 06:43	24° $\approx$ 13'37	
	7427 Jun 29 23:05	0° $\approx$		asc. node	7428 Jun 02 17:09	25° $\approx$ 04'23	
evening max el	7427 Jul 06 14:24	8° $\approx$ 32'57	19°39'08		7428 Jun 05 06:27	0° $\approx$	
retrograde	7427 Jul 16 10:42	13° $\approx$ 23'50		evening max el	7428 Jun 18 13:08	20° $\approx$ 34'03	18°47'48
evening set	7427 Jul 18 07:22	13° $\approx$ 14'12		retrograde	7428 Jun 26 20:09	24° $\approx$ 39'52	
desc. node	7427 Jul 21 23:37	12° $\approx$ 04'14		evening set	7428 Jun 28 20:50	24° $\approx$ 26'05	
inferior conj	7427 Jul 27 03:09	9° $\approx$ 10'41	-1°33'56	inferior conj	7428 Jul 06 21:46	20° $\approx$ 06'01	0°17'05
minimum elong	7427 Jul 26 22:51	9° $\approx$ 17'26	1°32'22	minimum elong	7428 Jul 06 22:26	20° $\approx$ 04'48	0°16'45
min. Earth dist.	7427 Jul 29 09:56	7° $\approx$ 44'56	0.55448 AU	desc. node	7428 Jul 07 20:39	19° $\approx$ 24'08	
morning rise	7427 Aug 04 12:03	4° $\approx$ 42'28		min. Earth dist.	7428 Jul 10 02:13	17° $\approx$ 47'45	0.56985 AU
direct	7427 Aug 09 03:40	3° $\approx$ 54'21		morning rise	7428 Jul 14 20:34	15° $\approx$ 00'52	
morning max el	7427 Aug 23 02:16	10° $\approx$ 51'22	24°45'27	direct	7428 Jul 20 09:15	13° $\approx$ 46'30	
	7427 Sep 06 13:31	0° $\approx$		morning max el	7428 Aug 03 17:02	21° $\approx$ 14'58	26°18'24
asc. node	7427 Sep 12 19:32	11° $\approx$ 22'49			7428 Aug 11 08:01	0° $\approx$	
morning set	7427 Sep 17 21:13	21° $\approx$ 46'04			7428 Aug 29 04:36	0° $\approx$	
	7427 Sep 21 16:32	0° $\approx$		asc. node	7428 Aug 29 16:32	1° $\approx$ 00'38	
				morning set	7428 Sep 01 07:56	6° $\approx$ 31'02	
superior conj	7427 Sep 24 18:38	6° $\approx$ 46'04	1°35'30				
minimum elong	7427 Sep 24 17:06	6° $\approx$ 37'43	1°35'23	superior conj	7428 Sep 08 05:55	21° $\approx$ 37'55	1°24'10
max. Earth dist.	7427 Sep 26 11:51	10° $\approx$ 30'37	1.32587 AU	minimum elong	7428 Sep 08 03:48	21° $\approx$ 26'14	1°23'54
evening rise	7427 Oct 02 00:33	22° $\approx$ 11'45		max. Earth dist.	7428 Sep 08 20:05	22° $\approx$ 56'16	1.31931 AU
	7427 Oct 05 22:44	0° $\approx$			7428 Sep 12 01:19	0° $\approx$	
desc. node	7427 Oct 17 22:41	20° $\approx$ 15'55'02		evening rise	7428 Sep 15 03:59	6° $\approx$ 38'52	
	7427 Oct 24 03:47	0° $\approx$			7428 Sep 27 11:14	0° $\approx$	
evening max el	7427 Nov 04 02:45	12° $\approx$ 48'00	27°28'30	desc. node	7428 Oct 03 19:43	9° $\approx$ 15'43	
retrograde	7427 Nov 17 20:16	20° $\approx$ 45'17		evening max el	7428 Oct 16 09:17	25° $\approx$ 16'12	27°09'09
evening set	7427 Nov 24 22:51	17° $\approx$ 34'47			7428 Oct 22 10:57	0° $\approx$	
min. Earth dist.	7427 Nov 28 15:23	14° $\approx$ 28'52	0.63085 AU	retrograde	7428 Oct 30 06:26	2° $\approx$ 27'49	
inferior conj	7427 Dec 01 09:21	11° $\approx$ 47'10	-2°43'56	evening set	7428 Nov 06 07:23	0° $\approx$ 15'05	
minimum elong	7427 Dec 01 14:25	11° $\approx$ 34'42	2°41'56		7428 Nov 06 16:56	30° $\approx$	
morning rise	7427 Dec 08 07:54	6° $\approx$ 34'28		min. Earth dist.	7428 Nov 10 00:01	27° $\approx$ 31'38	0.61106 AU
asc. node	7427 Dec 09 18:54	6° $\approx$ 12'15		inferior conj	7428 Nov 13 02:29	24° $\approx$ 50'29	-3°51'01
direct	7427 Dec 10 16:22	6° $\approx$ 08'26		minimum elong	7428 Nov 13 09:14	24° $\approx$ 35'48	3°48'53
morning max el	7427 Dec 17 07:45	9° $\approx$ 33'37	17°48'16	morning rise	7428 Nov 20 13:19	19° $\approx$ 57'17	
	7427 Dec 30 22:40	0° $\approx$		direct	7428 Nov 22 19:02	19° $\approx$ 36'51	
morning set	7428 Jan 02 12:11	4° $\approx$ 28'46		asc. node	7428 Nov 25 15:55	20° $\approx$ 11'52	
desc. node	7428 Jan 13 21:54	24° $\approx$ 02'10		morning max el	7428 Nov 29 22:43	23° $\approx$ 12'05	17°56'59
					7428 Dec 05 07:36	0° $\approx$	
superior conj	7428 Jan 14 11:04	24° $\approx$ 56'52	-0°03'59	morning set	7428 Dec 15 15:04	17° $\approx$ 52'42	
minimum elong	7428 Jan 14 10:40	24° $\approx$ 55'13	0°03'51		7428 Dec 22 06:48	0° $\approx$	



superior conj	7428 Dec 25 22:06	6°  26'36	0°35'11	minimum elong	7429 Dec 08 11:22	19°  17'33	1°04'52
minimum elong	7428 Dec 26 00:54	6°  38'47	0°34'52		7429 Dec 14 10:32	0° 	
desc. node	7428 Dec 30 18:53	14°  47'45		max. Earth dist.	7429 Dec 15 19:33	2°  23'11	1.40496 AU
max. Earth dist.	7429 Jan 02 10:55	19°  14'43	1.42496 AU	desc. node	7429 Dec 17 15:53	5°  32'34	
evening rise	7429 Jan 08 12:49	29°  04'22		evening rise	7429 Dec 20 04:57	9°  48'12	
	7429 Jan 09 02:55	0° 			7430 Jan 02 02:33	0° 	
	7429 Jan 29 09:33	0° 		evening max el	7430 Jan 23 18:05	28°  07'15	23°35'40
evening max el	7429 Feb 10 03:05	14°  24'54	22°15'44		7430 Jan 25 17:48	0° 	
retrograde	7429 Feb 19 17:19	20°  06'23		retrograde	7430 Feb 03 11:17	4°  26'42	
asc. node	7429 Feb 21 15:04	19°  47'43		evening set	7430 Feb 08 13:33	2°  19'44	
evening set	7429 Feb 24 07:28	18°  14'21		asc. node	7430 Feb 10 12:08	2°  22'44	
inferior conj	7429 Mar 01 15:35	11°  53'05	2°23'04		7430 Feb 10 20:17	30° 	
minimum elong	7429 Mar 01 13:18	12°  01'05	2°22'26	inferior conj	7430 Feb 13 23:51	25°  53'06	1°43'48
min. Earth dist.	7429 Mar 01 13:25	12°  00'37	0.68325 AU	minimum elong	7430 Feb 13 21:48	26°  00'06	1°43'07
morning rise	7429 Mar 06 18:58	5°  42'47		min. Earth dist.	7430 Feb 13 10:06	26°  40'07	0.68229 AU
direct	7429 Mar 11 12:55	3°  42'28		morning rise	7430 Feb 19 05:59	19°  48'12	
morning max el	7429 Mar 20 22:16	9°  13'12	22°11'12	direct	7430 Feb 23 10:07	18°  10'34	
desc. node	7429 Mar 28 18:21	18°  26'04		morning max el	7430 Mar 03 15:33	22°  53'30	20°49'59
	7429 Apr 06 03:32	0° 			7430 Mar 09 18:14	0° 	
morning set	7429 Apr 23 04:30	26°  05'02		desc. node	7430 Mar 15 15:19	7°  59'25	
	7429 Apr 25 14:06	0° 			7430 Mar 30 11:01	0° 	
max. Earth dist.	7429 Apr 28 12:51	4°  54'09	1.41021 AU	morning set	7430 Apr 02 12:53	4°  46'09	
				max. Earth dist.	7430 Apr 10 17:35	17°  48'18	1.42999 AU
superior conj	7429 May 06 07:39	18°  21'55	-1°51'32	superior conj	7430 Apr 17 14:43	29°  11'20	-2°08'15
minimum elong	7429 May 06 13:11	18°  46'34	1°51'06	minimum elong	7430 Apr 17 17:52	29°  24'38	2°08'11
	7429 May 12 17:15	0° 			7430 Apr 18 02:14	0° 	
evening rise	7429 May 16 17:08	7°  26'20		evening rise	7430 Apr 29 12:30	19°  54'44	
asc. node	7429 May 20 14:11	14°  37'22			7430 May 05 05:34	0° 	
	7429 May 30 01:21	0° 		asc. node	7430 May 07 11:13	3°  48'59	
evening max el	7429 Jun 01 20:22	3°  11'20	18°16'55	evening max el	7430 May 16 08:15	16°  13'55	18°05'45
retrograde	7429 Jun 09 00:43	6°  47'15		retrograde	7430 May 22 21:50	19°  36'15	
evening set	7429 Jun 11 08:46	6°  25'15		evening set	7430 May 25 13:10	19°  03'21	
inferior conj	7429 Jun 18 14:08	1°  44'37	1°43'14	inferior conj	7430 Jun 01 02:05	14°  02'22	2°40'36
minimum elong	7429 Jun 18 17:06	1°  38'17	1°42'13	minimum elong	7430 Jun 01 05:02	13°  55'07	2°39'50
	7429 Jun 20 15:00	30°  48'11		min. Earth dist.	7430 Jun 04 05:15	10°  58'34	0.61287 AU
min. Earth dist.	7429 Jun 21 23:56	28°  51'42	0.59050 AU	morning rise	7430 Jun 07 18:43	8°  03'32	
desc. node	7429 Jun 24 17:41	26°  50'56		desc. node	7430 Jun 11 14:43	6°  11'39	
morning rise	7429 Jun 25 22:21	26°  07'38		direct	7430 Jun 14 11:13	5°  47'05	
direct	7429 Jul 02 04:39	24°  21'18		morning max el	7430 Jun 28 16:57	13°  46'15	27°53'39
	7429 Jul 14 05:39	0° 			7430 Jul 11 17:12	0° 	
morning max el	7429 Jul 16 13:40	2°  09'22	27°24'06		7430 Jul 29 03:15	0° 	
	7429 Aug 05 16:55	0° 		morning set	7430 Jul 31 19:28	5°  24'16	
morning set	7429 Aug 16 15:58	21°  05'40		asc. node	7430 Aug 03 10:32	10°  54'02	
asc. node	7429 Aug 16 13:32	20°  52'52		max. Earth dist.	7430 Aug 06 15:38	17°  49'38	1.31967 AU
	7429 Aug 20 19:24	0° 					
superior conj	7429 Aug 23 17:42	6°  27'51	1°07'51	superior conj	7430 Aug 08 04:13	21°  10'03	0°46'59
minimum elong	7429 Aug 23 15:27	6°  15'22	1°07'27	minimum elong	7430 Aug 08 02:19	20°  59'35	0°46'34
max. Earth dist.	7429 Aug 23 06:37	5°  26'27	1.31728 AU		7430 Aug 12 04:33	0° 	
evening rise	7429 Aug 30 12:14	21°  17'39		evening rise	7430 Aug 14 23:12	6°  01'18	
	7429 Sep 03 17:21	0° 			7430 Aug 27 11:37	0° 	
desc. node	7429 Sep 20 16:45	28°  13'18		desc. node	7430 Sep 07 13:49	15°  15'46	
	7429 Sep 22 02:03	0° 		evening max el	7430 Sep 10 00:48	17°  47'05	24°54'26
evening max el	7429 Sep 28 09:01	6°  56'25	26°16'05	retrograde	7430 Sep 23 21:24	24°  46'16	
retrograde	7429 Oct 12 07:20	14°  01'52		evening set	7430 Sep 29 09:46	23°  43'44	
evening set	7429 Oct 18 20:30	12°  17'50		min. Earth dist.	7430 Oct 04 12:04	20°  53'50	0.57067 AU
min. Earth dist.	7429 Oct 22 22:14	9°  43'15	0.59026 AU	inferior conj	7430 Oct 07 07:40	19°  40'13	-5°26'07
inferior conj	7429 Oct 26 02:54	7°  18'53	-4°49'33	minimum elong	7430 Oct 07 10:32	18°  58'31	5°25'53
minimum elong	7429 Oct 26 09:31	7°  06'23	4°48'09	morning rise	7430 Oct 15 13:33	14°  55'08	
morning rise	7429 Nov 03 00:46	2°  47'55		direct	7430 Oct 18 02:25	14°  53'53	
direct	7429 Nov 05 07:45	2°  29'56		morning max el	7430 Oct 27 07:45	18°  59'04	19°15'57
asc. node	7429 Nov 12 12:57	5°  40'10		asc. node	7430 Oct 30 09:58	22°  43'17	
morning max el	7429 Nov 13 07:52	6°  23'45	18°25'39		7430 Nov 04 14:35	0° 	
	7429 Nov 28 07:21	0° 		morning set	7430 Nov 13 07:39	16°  17'12	
morning set	7429 Nov 29 06:54	1°  52'43			7430 Nov 20 05:02	0°	
superior conj	7429 Dec 08 07:49	19°  01'12	1°05'13	superior conj	7430 Nov 21 11:05	2°  26'33	1°25'46

minimum elong	7430 Nov 21 13:55	2° $\text{♁}$ 40'21	1°25'35	superior conj	7431 Nov 05 02:58	16° $\text{♁}$ 27'44	1°37'39
max. Earth dist.	7430 Nov 28 01:22	14° $\text{♁}$ 51'07	1.38340 AU	minimum elong	7431 Nov 05 04:30	16° $\text{♁}$ 35'32	1°37'38
evening rise	7430 Dec 01 19:23	21° $\text{♁}$ 31'46		max. Earth dist.	7431 Nov 10 08:28	26° $\text{♁}$ 49'20	1.36283 AU
desc. node	7430 Dec 04 12:55	26° $\text{♁}$ 13'14			7431 Nov 12 00:26	0° $\text{♁}$	
	7430 Dec 06 19:10	0° $\text{♁}$		evening rise	7431 Nov 14 05:45	4° $\text{♁}$ 08'21	
	7430 Dec 27 01:53	0° $\text{♁}$		desc. node	7431 Nov 21 09:57	16° $\text{♁}$ 44'49	
evening max el	7431 Jan 06 07:19	11° $\text{♁}$ 53'06	24°53'36		7431 Nov 29 17:45	0° $\text{♁}$	
retrograde	7431 Jan 18 01:23	18° $\text{♁}$ 43'09		evening max el	7431 Dec 19 20:11	25° $\text{♁}$ 38'41	26°02'41
evening set	7431 Jan 23 16:31	16° $\text{♁}$ 22'34			7431 Dec 25 00:31	0° $\text{♁}$	
asc. node	7431 Jan 26 09:11	13° $\text{♁}$ 35'52		retrograde	7432 Jan 01 10:44	2° $\text{♁}$ 48'53	
min. Earth dist.	7431 Jan 28 05:11	11° $\text{♁}$ 17'21	0.67748 AU	evening set	7432 Jan 07 14:37	0° $\text{♁}$ 17'41	
inferior conj	7431 Jan 29 06:15	9° $\text{♁}$ 54'44	0°56'40		7432 Jan 07 22:54	30° $\text{♁}$	
minimum elong	7431 Jan 29 04:56	9° $\text{♁}$ 59'05	0°56'13	min. Earth dist.	7432 Jan 11 20:28	25° $\text{♁}$ 47'04	0.66889 AU
morning rise	7431 Feb 03 17:36	3° $\text{♁}$ 56'56		inferior conj	7432 Jan 13 08:54	23° $\text{♁}$ 53'44	0°02'14
direct	7431 Feb 07 08:54	2° $\text{♁}$ 40'55		minimum elong	7432 Jan 13 08:50	23° $\text{♁}$ 53'55	0°02'17
morning max el	7431 Feb 14 16:52	6° $\text{♁}$ 46'46	19°41'25	transit middle	7432 Jan 13 08:50	23° $\text{♁}$ 53'55	0°02'17
greatest brilliancy	7431 Feb 27 12:08	23° $\text{♁}$ 30'28	-0.7m	transit begin	7432 Jan 13 06:01	24° $\text{♁}$ 02'43	
desc. node	7431 Mar 02 12:20	27° $\text{♁}$ 58'41		transit end	7432 Jan 13 11:40	23° $\text{♁}$ 45'08	
	7431 Mar 03 20:36	0° $\text{♁}$		asc. node	7432 Jan 13 06:15	24° $\text{♁}$ 01'59	
morning set	7431 Mar 12 09:54	13° $\text{♁}$ 03'10		morning rise	7432 Jan 19 03:41	18° $\text{♁}$ 04'54	
	7431 Mar 23 06:42	0° $\text{♁}$		direct	7432 Jan 22 07:41	17° $\text{♁}$ 07'43	
max. Earth dist.	7431 Mar 24 05:33	1° $\text{♁}$ 30'29	1.44489 AU	morning max el	7432 Jan 29 01:39	20° $\text{♁}$ 48'49	18°48'08
					7432 Feb 05 09:44	0° $\text{♁}$	
superior conj	7431 Mar 28 20:46	8° $\text{♁}$ 55'04	-2°09'29	desc. node	7432 Feb 17 09:20	18° $\text{♁}$ 16'18	
minimum elong	7431 Mar 28 17:51	8° $\text{♁}$ 43'19	2°09'27	morning set	7432 Feb 19 20:06	22° $\text{♁}$ 06'13	
	7431 Apr 10 14:59	0° $\text{♁}$			7432 Feb 24 21:11	0° $\text{♁}$	
evening rise	7431 Apr 11 12:18	1° $\text{♁}$ 30'03		max. Earth dist.	7432 Mar 05 22:21	15° $\text{♁}$ 43'25	1.45321 AU
asc. node	7431 Apr 24 08:16	22° $\text{♁}$ 32'23					
evening max el	7431 Apr 29 21:26	29° $\text{♁}$ 33'23	18°13'32	superior conj	7432 Mar 07 06:32	17° $\text{♁}$ 49'38	-1°50'53
	7431 Apr 30 08:26	0° $\text{♁}$		minimum elong	7432 Mar 06 21:41	17° $\text{♁}$ 14'56	1°50'11
retrograde	7431 May 06 06:48	2° $\text{♁}$ 56'49			7432 Mar 14 23:30	0° $\text{♁}$	
evening set	7431 May 09 05:03	2° $\text{♁}$ 11'24		evening rise	7432 Mar 22 13:01	12° $\text{♁}$ 07'01	
	7431 May 12 05:05	30° $\text{♁}$		greatest brilliancy	7432 Mar 28 23:09	22° $\text{♁}$ 28'44	-0.9m
inferior conj	7431 May 15 05:37	26° $\text{♁}$ 51'44	3°12'52		7432 Apr 02 17:05	0° $\text{♁}$	
minimum elong	7431 May 15 07:24	26° $\text{♁}$ 46'48	3°12'34	asc. node	7432 Apr 10 05:19	10° $\text{♁}$ 38'45	
min. Earth dist.	7431 May 17 19:52	23° $\text{♁}$ 59'42	0.63414 AU	evening max el	7432 Apr 12 09:10	13° $\text{♁}$ 03'10	18°39'35
morning rise	7431 May 21 08:27	20° $\text{♁}$ 40'40		retrograde	7432 Apr 18 23:20	16° $\text{♁}$ 40'35	
direct	7431 May 28 03:10	18° $\text{♁}$ 02'34		evening set	7432 Apr 22 04:38	15° $\text{♁}$ 41'36	
desc. node	7431 May 29 11:46	18° $\text{♁}$ 08'23		inferior conj	7432 Apr 27 20:42	10° $\text{♁}$ 04'57	3°25'22
morning max el	7431 Jun 11 01:12	26° $\text{♁}$ 04'32	27°45'15	minimum elong	7432 Apr 27 21:03	10° $\text{♁}$ 03'53	3°25'18
	7431 Jun 14 16:21	0° $\text{♁}$		min. Earth dist.	7432 Apr 29 19:43	7° $\text{♁}$ 41'52	0.65242 AU
	7431 Jul 05 06:53	0° $\text{♁}$		morning rise	7432 May 03 12:46	3° $\text{♁}$ 48'45	
morning set	7431 Jul 15 16:10	19° $\text{♁}$ 20'12		direct	7432 May 10 03:00	1° $\text{♁}$ 01'08	
	7431 Jul 20 20:18	0° $\text{♁}$		desc. node	7432 May 15 08:48	2° $\text{♁}$ 28'24	
max. Earth dist.	7431 Jul 20 19:06	29° $\text{♁}$ 53'42	1.32664 AU	morning max el	7432 May 23 11:28	8° $\text{♁}$ 54'02	27°03'08
asc. node	7431 Jul 21 07:32	0° $\text{♁}$ 59'40			7432 Jun 08 22:39	0° $\text{♁}$	
					7432 Jun 26 16:31	0° $\text{♁}$	
superior conj	7431 Jul 23 11:36	5° $\text{♁}$ 38'44	0°22'04	morning set	7432 Jun 28 03:09	2° $\text{♁}$ 45'16	
minimum elong	7431 Jul 23 10:34	5° $\text{♁}$ 33'07	0°21'46	max. Earth dist.	7432 Jul 02 13:12	11° $\text{♁}$ 29'28	1.33837 AU
evening rise	7431 Jul 30 10:55	20° $\text{♁}$ 43'40					
	7431 Aug 03 22:32	0° $\text{♁}$		superior conj	7432 Jul 06 13:45	19° $\text{♁}$ 47'59	-0°06'17
evening max el	7431 Aug 22 12:20	28° $\text{♁}$ 05'22	23°17'10	minimum elong	7432 Jul 06 14:05	19° $\text{♁}$ 49'45	0°06'19
	7431 Aug 24 15:10	0° $\text{♁}$		behind sun begin	7432 Jul 06 08:53	19° $\text{♁}$ 22'23	
desc. node	7431 Aug 25 10:53	0° $\text{♁}$ 39'39		behind sun end	7432 Jul 06 19:18	20° $\text{♁}$ 17'09	
retrograde	7431 Sep 04 23:29	4° $\text{♁}$ 49'47		asc. node	7432 Jul 07 04:33	21° $\text{♁}$ 05'48	
evening set	7431 Sep 09 00:09	4° $\text{♁}$ 14'16			7432 Jul 11 09:13	0° $\text{♁}$	
min. Earth dist.	7431 Sep 15 21:35	1° $\text{♁}$ 02'59	0.55540 AU	evening rise	7432 Jul 13 21:30	5° $\text{♁}$ 18'58	
inferior conj	7431 Sep 17 16:35	0° $\text{♁}$ 00'02	-5°22'27		7432 Jul 27 07:28	0° $\text{♁}$	
minimum elong	7431 Sep 17 12:23	0° $\text{♁}$ 06'12	5°22'04	evening max el	7432 Aug 03 04:14	8° $\text{♁}$ 26'16	21°40'55
	7431 Sep 17 16:37	30° $\text{♁}$		desc. node	7432 Aug 11 07:56	13° $\text{♁}$ 52'38	
morning rise	7431 Sep 26 02:52	26° $\text{♁}$ 08'37		retrograde	7432 Aug 15 14:48	14° $\text{♁}$ 36'26	
direct	7431 Sep 29 01:32	25° $\text{♁}$ 47'46		evening set	7432 Aug 18 06:12	14° $\text{♁}$ 20'39	
	7431 Oct 08 21:40	0° $\text{♁}$		inferior conj	7432 Aug 27 11:45	10° $\text{♁}$ 20'58	-4°25'01
morning max el	7431 Oct 09 19:33	0° $\text{♁}$ 49'02	20°28'30	minimum elong	7432 Aug 27 02:33	10° $\text{♁}$ 33'51	4°22'47
asc. node	7431 Oct 17 07:00	10° $\text{♁}$ 05'20		min. Earth dist.	7432 Aug 27 06:46	10° $\text{♁}$ 27'57	0.54761 AU
	7431 Oct 28 03:08	0° $\text{♁}$		morning rise	7432 Sep 05 00:03	6° $\text{♁}$ 30'33	
morning set	7431 Oct 28 14:09	0° $\text{♁}$ 56'23		direct	7432 Sep 08 11:46	6° $\text{♁}$ 03'59	

morning max el	7432 Sep 20 18:58	11° $\mathbb{M}$ 52'03	22°00'53	morning max el	7433 Sep 02 09:33	22° $\Omega$ 17'50	23°45'21
asc. node	7432 Oct 03 04:01	28° $\mathbb{M}$ 33'01			7433 Sep 09 04:08	0° $\mathbb{M}$	
	7432 Oct 03 23:47	0° $\mathbb{L}$		asc. node	7433 Sep 20 01:01	17° $\mathbb{M}$ 34'24	
morning set	7432 Oct 12 00:08	15° $\mathbb{L}$ 44'14		morning set	7433 Sep 26 11:42	0° $\mathbb{L}$ 34'41	
	7432 Oct 18 17:30	0° $\mathbb{M}$			7433 Sep 26 05:09	0° $\mathbb{L}$	
superior conj	7432 Oct 19 03:42	0° $\mathbb{M}$ 53'51	1°41'55	superior conj	7433 Oct 03 10:19	15° $\mathbb{L}$ 35'17	1°39'33
minimum elong	7432 Oct 19 03:52	0° $\mathbb{M}$ 54'42	1°41'58	minimum elong	7433 Oct 03 09:18	15° $\mathbb{L}$ 29'51	1°39'31
max. Earth dist.	7432 Oct 22 22:03	8° $\mathbb{M}$ 42'10	1.34529 AU	max. Earth dist.	7433 Oct 05 20:20	20° $\mathbb{L}$ 46'49	1.33173 AU
evening rise	7432 Oct 27 08:14	17° $\mathbb{M}$ 28'44			7433 Oct 10 06:41	0° $\mathbb{M}$	
	7432 Nov 03 03:36	0° $\mathbb{X}$		evening rise	7433 Oct 10 22:55	1° $\mathbb{M}$ 21'54	
desc. node	7432 Nov 07 06:59	7° $\mathbb{X}$ 02'19		desc. node	7433 Oct 25 04:01	26° $\mathbb{M}$ 59'03	
	7432 Nov 23 01:24	0° $\mathbb{Z}$			7433 Oct 27 02:04	0° $\mathbb{X}$	
evening max el	7432 Dec 01 09:18	9° $\mathbb{Z}$ 18'02	26°55'29	evening max el	7433 Nov 13 21:46	22° $\mathbb{X}$ 40'35	27°24'50
retrograde	7432 Dec 14 14:32	16° $\mathbb{Z}$ 36'52		retrograde	7433 Nov 27 11:56	29° $\mathbb{X}$ 59'10	
evening set	7432 Dec 21 05:52	14° $\mathbb{Z}$ 00'08		evening set	7433 Dec 04 11:49	27° $\mathbb{X}$ 24'01	
min. Earth dist.	7432 Dec 25 05:42	10° $\mathbb{Z}$ 03'57	0.65673 AU	min. Earth dist.	7433 Dec 08 06:35	24° $\mathbb{X}$ 00'51	0.64119 AU
inferior conj	7432 Dec 27 05:41	7° $\mathbb{Z}$ 45'44	-0°58'44	inferior conj	7433 Dec 10 18:08	21° $\mathbb{X}$ 25'11	-2°04'41
minimum elong	7432 Dec 27 07:22	7° $\mathbb{Z}$ 40'51	0°57'55	minimum elong	7433 Dec 10 21:57	21° $\mathbb{X}$ 15'11	2°03'03
asc. node	7432 Dec 30 03:19	4° $\mathbb{Z}$ 36'42		morning rise	7433 Dec 17 09:39	16° $\mathbb{X}$ 02'16	
morning rise	7433 Jan 02 09:58	2° $\mathbb{Z}$ 08'20		asc. node	7433 Dec 17 00:22	16° $\mathbb{X}$ 12'29	
direct	7433 Jan 05 04:36	1° $\mathbb{Z}$ 26'14		direct	7433 Dec 19 21:09	15° $\mathbb{X}$ 31'20	
morning max el	7433 Jan 11 15:53	4° $\mathbb{Z}$ 53'41	18°11'17	morning max el	7433 Dec 26 08:52	18° $\mathbb{X}$ 54'45	17°51'33
	7433 Jan 28 20:13	0° $\mathbb{A}$			7434 Jan 03 13:36	0° $\mathbb{Z}$	
morning set	7433 Jan 30 10:35	2° $\mathbb{A}$ 35'47		morning set	7434 Jan 12 05:28	14° $\mathbb{Z}$ 29'02	
desc. node	7433 Feb 03 06:18	8° $\mathbb{A}$ 46'56		desc. node	7434 Jan 21 03:16	29° $\mathbb{Z}$ 26'27	
					7434 Jan 21 11:25	0° $\mathbb{A}$	
superior conj	7433 Feb 14 11:32	26° $\mathbb{A}$ 38'47	-1°14'27	superior conj	7434 Jan 25 06:55	6° $\mathbb{A}$ 13'34	-0°29'31
minimum elong	7433 Feb 14 03:01	26° $\mathbb{A}$ 05'16	1°13'22	minimum elong	7434 Jan 25 03:33	5° $\mathbb{A}$ 59'57	0°28'57
max. Earth dist.	7433 Feb 16 17:35	0° $\mathbb{H}$ 11'03	1.45421 AU	max. Earth dist.	7434 Jan 30 12:51	14° $\mathbb{A}$ 37'48	1.44785 AU
	7433 Feb 16 14:46	0° $\mathbb{H}$			7434 Feb 09 09:22	0° $\mathbb{H}$	
evening rise	7433 Mar 02 15:26	21° $\mathbb{H}$ 52'30		evening rise	7434 Feb 10 04:00	1° $\mathbb{H}$ 11'33	
	7433 Mar 07 20:52	0° $\mathbb{Y}$			7434 Mar 01 13:32	0° $\mathbb{Y}$	
greatest brilliancy	7433 Mar 14 17:17	10° $\mathbb{Y}$ 31'46	-0.7m		7434 Mar 09 20:19	10° $\mathbb{Y}$ 15'46	20°20'58
evening max el	7433 Mar 26 17:17	26° $\mathbb{Y}$ 38'16	19°22'42	evening max el	7434 Mar 14 23:27	14° $\mathbb{Y}$ 12'52	
asc. node	7433 Mar 28 02:23	27° $\mathbb{Y}$ 56'46		asc. node	7434 Mar 17 18:26	14° $\mathbb{Y}$ 53'01	
	7433 Mar 31 01:54	0° $\mathbb{B}$		retrograde	7434 Mar 21 16:17	13° $\mathbb{Y}$ 24'41	
retrograde	7433 Apr 02 20:03	0° $\mathbb{B}$ 40'59		evening set	7434 Mar 27 00:22	7° $\mathbb{Y}$ 19'07	3°07'16
	7433 Apr 05 11:38	30° $\mathbb{R}$ $\mathbb{Y}$		minimum elong	7434 Mar 26 22:36	7° $\mathbb{Y}$ 25'08	3°06'58
evening set	7433 Apr 06 09:07	29° $\mathbb{Y}$ 27'36		min. Earth dist.	7434 Mar 27 17:59	6° $\mathbb{Y}$ 19'06	0.67661 AU
inferior conj	7433 Apr 11 19:52	23° $\mathbb{Y}$ 35'34	3°22'27	morning rise	7434 Apr 01 04:43	1° $\mathbb{Y}$ 03'35	
minimum elong	7433 Apr 11 18:59	23° $\mathbb{Y}$ 38'28	3°22'21		7434 Apr 02 12:26	30° $\mathbb{R}$ $\mathbb{H}$	
min. Earth dist.	7433 Apr 13 03:41	21° $\mathbb{Y}$ 51'49	0.66673 AU	direct	7434 Apr 06 20:51	28° $\mathbb{H}$ 31'45	
morning rise	7433 Apr 17 04:29	17° $\mathbb{Y}$ 18'30			7434 Apr 11 16:47	0° $\mathbb{Y}$	
direct	7433 Apr 23 09:15	14° $\mathbb{Y}$ 33'47		morning max el	7434 Apr 18 06:17	5° $\mathbb{Y}$ 20'47	24°31'20
desc. node	7433 May 02 05:49	18° $\mathbb{Y}$ 40'03		desc. node	7434 Apr 19 02:47	6° $\mathbb{Y}$ 13'40	
morning max el	7433 May 05 21:19	22° $\mathbb{Y}$ 02'07	25°55'11		7434 May 07 06:41	0° $\mathbb{B}$	
	7433 May 12 20:19	0° $\mathbb{B}$		morning set	7434 May 24 03:21	27° $\mathbb{B}$ 15'19	
	7433 Jun 02 04:51	0° $\mathbb{I}$			7434 May 25 16:40	0° $\mathbb{I}$	
morning set	7433 Jun 11 00:30	15° $\mathbb{I}$ 27'50		max. Earth dist.	7434 May 27 18:25	3° $\mathbb{I}$ 43'37	1.37536 AU
max. Earth dist.	7433 Jun 14 20:04	22° $\mathbb{I}$ 38'37	1.35491 AU				
	7433 Jun 18 14:14	0° $\mathbb{E}$		superior conj	7434 Jun 03 15:21	16° $\mathbb{I}$ 37'08	-1°08'13
superior conj	7433 Jun 20 08:03	3° $\mathbb{E}$ 29'59	-0°36'57	minimum elong	7434 Jun 03 19:26	16° $\mathbb{I}$ 56'54	1°07'38
minimum elong	7433 Jun 20 10:12	3° $\mathbb{E}$ 40'49	0°36'38		7434 Jun 10 10:05	0° $\mathbb{E}$	
asc. node	7433 Jun 24 01:33	11° $\mathbb{E}$ 07'52		asc. node	7434 Jun 10 22:34	1° $\mathbb{E}$ 02'19	
evening rise	7433 Jun 28 04:51	19° $\mathbb{E}$ 40'23		evening rise	7434 Jun 12 06:35	3° $\mathbb{E}$ 41'49	
	7433 Jul 03 09:13	0° $\mathbb{Q}$			7434 Jun 28 02:26	0° $\mathbb{Q}$	
evening max el	7433 Jul 16 07:28	19° $\mathbb{Q}$ 18'36	20°18'07	evening max el	7434 Jun 28 23:37	0° $\mathbb{Q}$ 54'33	19°14'42
retrograde	7433 Jul 27 03:20	24° $\mathbb{Q}$ 38'41		retrograde	7434 Jul 08 02:43	5° $\mathbb{Q}$ 24'31	
evening set	7433 Jul 29 02:14	24° $\mathbb{Q}$ 29'02		evening set	7434 Jul 10 00:32	5° $\mathbb{Q}$ 13'33	
desc. node	7433 Jul 29 05:00	24° $\mathbb{Q}$ 27'52		desc. node	7434 Jul 16 02:02	2° $\mathbb{Q}$ 38'05	
inferior conj	7433 Aug 07 05:45	20° $\mathbb{Q}$ 31'22	-2°41'59	inferior conj	7434 Jul 18 12:44	1° $\mathbb{Q}$ 03'33	-0°44'35
minimum elong	7433 Aug 06 22:22	20° $\mathbb{Q}$ 42'10	2°39'27	minimum elong	7434 Jul 18 10:47	1° $\mathbb{Q}$ 06'49	0°43'55
min. Earth dist.	7433 Aug 08 17:20	19° $\mathbb{Q}$ 39'14	0.54928 AU		7434 Jul 20 02:47	30° $\mathbb{R}$ $\mathbb{E}$	
morning rise	7433 Aug 15 17:28	16° $\mathbb{Q}$ 22'01		min. Earth dist.	7434 Jul 21 06:42	29° $\mathbb{E}$ 14'15	0.56022 AU
direct	7433 Aug 19 22:07	15° $\mathbb{Q}$ 44'02		morning rise	7434 Jul 26 18:09	26° $\mathbb{E}$ 20'06	

direct	7434 Jul 31 18:57	25°☿22'00		min. Earth dist.	7435 Jul 03 00:58	9°☿41'37	0.57817 AU
	7434 Aug 12 00:15	0°♊		morning rise	7435 Jul 07 09:31	6°☿57'13	
morning max el	7434 Aug 14 22:22	2°♊32'58	25°27'34	direct	7435 Jul 13 06:09	5°☿29'51	
	7434 Sep 03 06:35	0°♋		morning max el	7435 Jul 27 15:32	13°☿07'50	26°50'35
asc. node	7434 Sep 06 22:00	7°♋00'47			7435 Aug 09 23:22	0°♊	
morning set	7434 Sep 10 23:12	15°♋22'54		asc. node	7435 Aug 24 18:59	26°♊45'32	
				morning set	7435 Aug 26 09:01	0°♋04'29	
					7435 Aug 26 08:10	0°♋	
superior conj	7434 Sep 17 20:27	0°♌24'47	1°31'19				
minimum elong	7434 Sep 17 18:37	0°♌14'44	1°31'09				
	7434 Sep 17 15:57	0°♌		superior conj	7435 Sep 02 08:11	15°♋16'37	1°17'50
max. Earth dist.	7434 Sep 19 01:55	3°♌06'37	1.32255 AU	minimum elong	7435 Sep 02 05:57	15°♋04'15	1°17'30
evening rise	7434 Sep 24 22:30	15°♌38'35		max. Earth dist.	7435 Sep 02 11:40	15°♋36'00	1.31784 AU
	7434 Oct 02 06:24	0°♍		evening rise	7435 Sep 09 04:15	0°♌11'28	
desc. node	7434 Oct 12 01:03	16°♍25'59			7435 Sep 09 02:05	0°♌	
	7434 Oct 22 02:03	0°♎			7435 Sep 25 09:29	0°♍	
evening max el	7434 Oct 27 07:12	5°♎32'06	27°24'27	desc. node	7435 Sep 28 22:06	5°♍11'25	
retrograde	7434 Nov 10 02:11	12°♎46'18		evening max el	7435 Oct 09 10:57	17°♍40'24	26°50'35
evening set	7434 Nov 17 05:18	10°♎22'03		retrograde	7435 Oct 23 08:38	24°♍49'43	
min. Earth dist.	7434 Nov 20 21:14	7°♎27'06	0.62270 AU	evening set	7435 Oct 30 06:15	22°♍47'34	
inferior conj	7434 Nov 23 19:16	4°♎44'07	-3°12'49	min. Earth dist.	7435 Nov 03 01:04	20°♍10'17	0.60220 AU
minimum elong	7434 Nov 24 01:11	4°♎30'19	3°10'40	inferior conj	7435 Nov 06 05:44	17°♍33'53	-4°17'32
	7434 Nov 30 01:58	30°♏		minimum elong	7435 Nov 06 12:46	17°♍19'29	4°15'36
morning rise	7434 Nov 30 23:04	29°♏39'13		morning rise	7435 Nov 13 21:34	12°♍50'17	
direct	7434 Dec 03 06:05	29°♏15'50		direct	7435 Nov 16 03:20	12°♍31'15	
asc. node	7434 Dec 03 21:25	29°♏17'42		asc. node	7435 Nov 20 18:25	13°♍56'50	
	7434 Dec 06 08:33	0°♐		morning max el	7435 Nov 23 14:34	16°♍12'56	18°06'45
morning max el	7434 Dec 10 01:32	2°♐43'57	17°49'40		7435 Dec 03 05:54	0°♐	
morning set	7434 Dec 25 22:31	27°♐25'34		morning set	7435 Dec 09 07:33	11°♐06'56	
	7434 Dec 27 09:08	0°♑					
				superior conj	7435 Dec 19 00:40	29°♐01'12	0°49'04
superior conj	7435 Jan 06 03:14	17°♑01'11	0°13'38	minimum elong	7435 Dec 19 04:01	29°♐16'11	0°48'42
minimum elong	7435 Jan 06 04:31	17°♑06'38	0°13'32		7435 Dec 19 13:50	0°♑	
behind sun begin	7435 Jan 05 23:45	16°♑46'25		desc. node	7435 Dec 25 21:16	10°♑56'51	
behind sun end	7435 Jan 06 09:17	17°♑26'50		max. Earth dist.	7435 Dec 26 16:20	12°♑17'07	1.41678 AU
desc. node	7435 Jan 08 00:15	20°♑10'48		evening rise	7435 Dec 31 21:26	20°♑51'16	
max. Earth dist.	7435 Jan 13 05:08	28°♑45'10	1.43487 AU		7436 Jan 06 16:39	0°♒	
	7435 Jan 13 23:39	0°♒			7436 Jan 27 19:50	0°♋	
evening rise	7435 Jan 20 17:20	10°♒40'00		evening max el	7436 Feb 03 10:32	7°♋34'00	22°49'23
	7435 Feb 02 13:02	0°♌		retrograde	7436 Feb 13 12:24	13°♋32'46	
evening max el	7435 Feb 20 17:46	23°♌53'47	21°31'20	asc. node	7436 Feb 16 17:36	12°♌40'25	
retrograde	7435 Mar 01 16:25	29°♌11'33		evening set	7436 Feb 18 07:34	11°♌34'10	
asc. node	7435 Mar 01 20:32	29°♌11'24		inferior conj	7436 Feb 23 16:26	5°♌09'49	2°07'25
evening set	7435 Mar 06 00:18	27°♌27'58		minimum elong	7436 Feb 23 14:10	5°♌17'37	2°06'44
inferior conj	7435 Mar 11 07:52	21°♌11'21	2°41'50	min. Earth dist.	7436 Feb 23 09:12	5°♌34'51	0.68336 AU
minimum elong	7435 Mar 11 05:39	21°♌19'06	2°41'18		7436 Feb 27 19:18	30°♒	
min. Earth dist.	7435 Mar 11 12:33	20°♌55'06	0.68207 AU	morning rise	7436 Feb 28 20:41	29°♒01'35	
morning rise	7435 Mar 16 10:50	14°♌58'50		direct	7436 Mar 04 08:33	27°♒11'09	
direct	7435 Mar 21 12:53	12°♌46'15			7436 Mar 10 15:36	0°♌	
morning max el	7435 Mar 31 15:58	18°♌46'22	23°01'41	morning max el	7436 Mar 13 05:37	2°♌20'54	21°35'16
desc. node	7435 Apr 05 23:45	24°♌45'52		desc. node	7436 Mar 22 20:45	14°♌00'37	
	7435 Apr 10 02:07	0°♍			7436 Apr 03 00:40	0°♍	
	7435 Apr 30 10:06	0°♎		morning set	7436 Apr 14 04:54	17°♍13'13	
morning set	7435 May 05 06:03	7°♎53'02		max. Earth dist.	7436 Apr 20 14:49	27°♍36'45	1.41909 AU
max. Earth dist.	7435 May 09 14:37	15°♎15'42	1.39763 AU		7436 Apr 22 01:19	0°♎	
superior conj	7435 May 17 07:37	28°♏59'08	-1°37'20	superior conj	7436 Apr 28 04:06	10°♏25'09	-2°00'08
minimum elong	7435 May 17 13:06	29°♏24'19	1°36'44	minimum elong	7436 Apr 28 09:05	10°♏46'49	1°59'51
	7435 May 17 20:50	0°♐		evening rise	7436 May 09 04:14	0°♐10'06	
evening rise	7435 May 26 23:39	17°♐14'58			7436 May 09 02:02	0°♐	
asc. node	7435 May 28 19:36	20°♐44'36		asc. node	7436 May 14 16:39	10°♐09'20	
	7435 Jun 02 20:11	0°♑		evening max el	7436 May 25 11:57	26°♐00'27	18°09'48
evening max el	7435 Jun 12 02:20	13°♑11'30	18°32'08	retrograde	7436 Jun 01 08:50	29°♐28'57	
retrograde	7435 Jun 19 20:41	17°♑03'02		evening set	7436 Jun 03 19:53	29°♐02'43	
evening set	7435 Jun 22 00:17	16°♑46'12		inferior conj	7436 Jun 10 17:48	24°♐13'29	2°10'58
inferior conj	7435 Jun 29 16:38	12°♑17'11	0°57'14	minimum elong	7436 Jun 10 20:58	24°♐06'16	2°09'59
minimum elong	7435 Jun 29 18:37	12°♑13'18	0°56'26	min. Earth dist.	7436 Jun 14 01:59	21°♐12'34	0.59993 AU
desc. node	7435 Jul 02 23:03	9°♑45'10		morning rise	7436 Jun 17 19:14	18°♐25'34	

desc. node	7436 Jun 18 20:07	17° $\Pi$ 50'25		7437 May 31 23:58	30° $\mathbb{R}$ $\mathcal{B}$	
direct	7436 Jun 24 06:47	16° $\Pi$ 25'32		desc. node	7437 Jun 05 17:09	28° $\mathcal{B}$ 17'11
morning max el	7436 Jul 08 15:15	24° $\Pi$ 20'22	27°41'25	direct	7437 Jun 06 17:58	28° $\mathcal{B}$ 13'52
	7436 Jul 13 18:36	0° $\mathcal{E}$			7437 Jun 12 22:24	0° $\Pi$
	7436 Aug 02 06:17	0° $\Omega$		morning max el	7437 Jun 20 20:49	6° $\Pi$ 15'40 27°54'28
morning set	7436 Aug 09 15:22	14° $\Omega$ 33'05			7437 Jul 08 19:59	0° $\mathcal{E}$
asc. node	7436 Aug 10 15:58	16° $\Omega$ 42'08		morning set	7437 Jul 24 16:15	28° $\mathcal{E}$ 43'03
max. Earth dist.	7436 Aug 15 21:54	28° $\Omega$ 03'59	1.31764 AU		7437 Jul 25 07:19	0° $\Omega$
				asc. node	7437 Jul 28 12:59	6° $\Omega$ 46'01
superior conj	7436 Aug 16 19:38	0° $\mathbb{P}$ 03'59	0°59'33	max. Earth dist.	7437 Jul 30 04:50	10° $\Omega$ 19'33 1.32204 AU
minimum elong	7436 Aug 16 17:28	29° $\Omega$ 52'00	0°59'07			
	7436 Aug 16 18:55	0° $\mathbb{P}$		superior conj	7437 Aug 01 05:04	14° $\Omega$ 41'32 0°36'54
evening rise	7436 Aug 23 13:52	14° $\mathbb{P}$ 52'46		minimum elong	7437 Aug 01 03:28	14° $\Omega$ 32'48 0°36'30
	7436 Aug 31 01:52	0° $\mathcal{L}$		evening rise	7437 Aug 08 01:23	29° $\Omega$ 36'46
desc. node	7436 Sep 14 19:11	22° $\mathcal{L}$ 57'49			7437 Aug 08 05:44	0° $\mathbb{P}$
evening max el	7436 Sep 20 07:02	28° $\mathcal{L}$ 58'06	25°44'19		7437 Aug 24 20:06	0° $\mathcal{L}$
	7436 Sep 21 09:58	0° $\mathbb{M}$		desc. node	7437 Sep 01 16:14	9° $\mathcal{L}$ 22'12
retrograde	7436 Oct 04 05:37	6° $\mathbb{M}$ 02'10		evening max el	7437 Sep 01 20:22	9° $\mathcal{L}$ 32'11 24°14'05
evening set	7436 Oct 10 09:41	4° $\mathbb{M}$ 32'43		retrograde	7437 Sep 15 14:36	16° $\mathcal{L}$ 26'27
min. Earth dist.	7436 Oct 14 19:27	1° $\mathbb{M}$ 56'25	0.58152 AU	evening set	7437 Sep 20 12:21	15° $\mathcal{L}$ 33'19
inferior conj	7436 Oct 17 22:02	29° $\mathcal{L}$ 44'08	-5°08'49	min. Earth dist.	7437 Sep 26 07:15	12° $\mathcal{L}$ 39'30 0.56344 AU
minimum elong	7436 Oct 18 03:34	29° $\mathcal{L}$ 34'16	5°07'57	inferior conj	7437 Sep 28 18:05	11° $\mathcal{L}$ 08'05 -5°30'37
	7436 Oct 17 13:10	30° $\mathbb{R}$ $\mathcal{L}$		minimum elong	7437 Sep 28 18:09	11° $\mathcal{L}$ 07'59 5°30'35
morning rise	7436 Oct 25 23:47	25° $\mathcal{L}$ 23'18		morning rise	7437 Oct 07 02:09	7° $\mathcal{L}$ 07'54
direct	7436 Oct 28 08:29	25° $\mathcal{L}$ 05'40		direct	7437 Oct 09 18:43	6° $\mathcal{L}$ 48'49
morning max el	7436 Nov 05 20:16	29° $\mathcal{L}$ 10'34	18°44'23	morning max el	7437 Oct 19 15:10	11° $\mathcal{L}$ 26'55 19°44'05
asc. node	7436 Nov 06 15:27	29° $\mathcal{L}$ 58'38		asc. node	7437 Oct 24 12:27	17° $\mathcal{L}$ 08'19
	7436 Nov 06 15:58	0° $\mathbb{M}$			7437 Nov 01 07:01	0° $\mathbb{M}$
morning set	7436 Nov 22 03:35	25° $\mathbb{M}$ 18'07		morning set	7437 Nov 06 07:03	9° $\mathbb{M}$ 49'19
	7436 Nov 24 13:16	0° $\mathcal{X}$				
superior conj	7436 Nov 30 18:27	11° $\mathcal{X}$ 59'00	1°15'03	superior conj	7437 Nov 14 03:31	25° $\mathbb{M}$ 40'20 1°31'49
minimum elong	7436 Nov 30 21:49	12° $\mathcal{X}$ 14'53	1°14'45	minimum elong	7437 Nov 14 05:51	25° $\mathbb{M}$ 51'51 1°31'42
max. Earth dist.	7436 Dec 07 22:48	25° $\mathcal{X}$ 05'18	1.39578 AU		7437 Nov 16 08:28	0° $\mathcal{X}$
	7436 Dec 10 18:42	0° $\mathcal{Z}$		max. Earth dist.	7437 Nov 20 04:22	7° $\mathcal{X}$ 17'17 1.37441 AU
evening rise	7436 Dec 11 23:04	2° $\mathcal{Z}$ 00'36		evening rise	7437 Nov 23 22:21	14° $\mathcal{X}$ 07'35
desc. node	7436 Dec 11 18:18	1° $\mathcal{Z}$ 40'24		desc. node	7437 Nov 28 15:19	22° $\mathcal{X}$ 17'39
	7436 Dec 29 23:35	0° $\approx$			7437 Dec 03 07:55	0° $\mathcal{Z}$
evening max el	7437 Jan 16 00:31	21° $\approx$ 17'58	24°09'28		7437 Dec 24 19:53	0° $\approx$
retrograde	7437 Jan 27 05:01	27° $\approx$ 52'11		evening max el	7437 Dec 29 13:38	5° $\approx$ 04'45 25°24'40
evening set	7437 Feb 01 12:34	25° $\approx$ 39'21		retrograde	7438 Jan 10 17:07	12° $\approx$ 04'24
asc. node	7437 Feb 02 14:39	24° $\approx$ 38'29		evening set	7438 Jan 16 13:40	9° $\approx$ 39'11
min. Earth dist.	7437 Feb 06 05:38	20° $\approx$ 14'04	0.68068 AU	asc. node	7438 Jan 20 11:43	5° $\approx$ 25'36
inferior conj	7437 Feb 07 00:10	19° $\approx$ 11'27	1°24'46	min. Earth dist.	7438 Jan 20 23:27	4° $\approx$ 48'27 0.67424 AU
minimum elong	7437 Feb 06 22:22	19° $\approx$ 17'32	1°24'09	inferior conj	7438 Jan 22 05:13	3° $\approx$ 12'28 0°34'27
morning rise	7437 Feb 12 08:13	13° $\approx$ 09'05		minimum elong	7438 Jan 22 04:22	3° $\approx$ 15'12 0°34'11
direct	7437 Feb 16 06:40	11° $\approx$ 40'53			7438 Jan 24 19:55	30° $\mathbb{R}$ $\mathcal{Z}$
morning max el	7437 Feb 24 02:13	16° $\approx$ 07'01	20°18'59	morning rise	7438 Jan 27 19:25	27° $\mathcal{Z}$ 17'59
	7437 Mar 07 02:41	0° $\mathcal{H}$		direct	7438 Jan 31 05:47	26° $\mathcal{Z}$ 10'13
desc. node	7437 Mar 09 17:45	3° $\mathcal{H}$ 46'22			7438 Feb 07 05:08	0° $\approx$
morning set	7437 Mar 24 05:45	25° $\mathcal{H}$ 36'22		morning max el	7438 Feb 07 06:44	0° $\approx$ 03'58 19°16'46
	7437 Mar 27 01:36	0° $\mathcal{Y}$		greatest brilliancy	7438 Feb 20 11:21	17° $\approx$ 37'36 -0.7m
max. Earth dist.	7437 Apr 02 22:18	10° $\mathcal{Y}$ 51'34	1.43705 AU	desc. node	7438 Feb 24 14:44	23° $\approx$ 54'14
					7438 Feb 28 14:02	0° $\mathcal{H}$
superior conj	7437 Apr 09 00:41	20° $\mathcal{Y}$ 47'17	-2°11'00	morning set	7438 Mar 03 05:32	4° $\mathcal{H}$ 05'05
minimum elong	7437 Apr 09 01:38	20° $\mathcal{Y}$ 51'13	2°11'03	max. Earth dist.	7438 Mar 16 12:48	24° $\mathcal{H}$ 49'47 1.44933 AU
	7437 Apr 14 12:41	0° $\mathcal{B}$				
evening rise	7437 Apr 21 15:53	12° $\mathcal{B}$ 17'24		superior conj	7438 Mar 19 20:59	0° $\mathcal{Y}$ 07'07 -2°04'07
asc. node	7437 May 01 13:43	29° $\mathcal{B}$ 10'28		minimum elong	7438 Mar 19 15:06	29° $\mathcal{H}$ 43'46 2°03'50
	7437 May 02 02:14	0° $\Pi$			7438 Mar 19 19:11	0° $\mathcal{Y}$
evening max el	7437 May 09 00:52	9° $\Pi$ 12'10	18°06'49	evening rise	7438 Apr 03 06:08	23° $\mathcal{Y}$ 28'10
retrograde	7437 May 15 11:25	12° $\Pi$ 33'01			7438 Apr 07 04:41	0° $\mathcal{B}$
evening set	7437 May 18 05:44	11° $\Pi$ 55'00		asc. node	7438 Apr 18 10:47	17° $\mathcal{B}$ 39'42
inferior conj	7437 May 24 12:56	6° $\Pi$ 46'11	2°56'59	evening max el	7438 Apr 22 13:50	22° $\mathcal{B}$ 37'28 18°22'25
minimum elong	7437 May 24 15:27	6° $\Pi$ 39'38	2°56'26	retrograde	7438 Apr 28 24:00	26° $\mathcal{B}$ 04'55
min. Earth dist.	7437 May 27 11:15	3° $\Pi$ 44'39	0.62222 AU	evening set	7438 May 02 01:19	25° $\mathcal{B}$ 13'41
morning rise	7437 May 30 23:24	0° $\Pi$ 41'15		inferior conj	7438 May 07 21:50	19° $\mathcal{B}$ 46'37 3°20'14
				minimum elong	7438 May 07 23:00	19° $\mathcal{B}$ 43'14 3°20'04

min. Earth dist.	7438 May 10 05:41	17° $\text{♁}$ 05'25	0.64246 AU	minimum elong	7439 Apr 21 16:32	3° $\text{♁}$ 08'53	3°25'43
morning rise	7438 May 13 19:44	13° $\text{♁}$ 32'59		min. Earth dist.	7439 Apr 23 09:05	1° $\text{♁}$ 01'21	0.65909 AU
direct	7438 May 20 13:23	10° $\text{♁}$ 49'23			7439 Apr 24 05:17	30° $\text{♁}$	
desc. node	7438 May 23 14:12	11° $\text{♁}$ 18'32		morning rise	7439 Apr 27 05:16	26° $\text{♁}$ 51'18	
morning max el	7438 Jun 03 06:03	18° $\text{♁}$ 48'08	27°30'57	direct	7439 May 03 15:51	24° $\text{♁}$ 03'54	
	7438 Jun 12 16:59	0° $\text{♁}$		desc. node	7439 May 10 11:13	26° $\text{♁}$ 30'18	
	7438 Jul 01 18:51	0° $\text{♁}$			7439 May 14 20:06	0° $\text{♁}$	
morning set	7438 Jul 08 09:10	12° $\text{♁}$ 26'37		morning max el	7439 May 16 16:31	1° $\text{♁}$ 47'41	26°36'49
max. Earth dist.	7438 Jul 13 04:42	22° $\text{♁}$ 12'14	1.33112 AU		7439 Jun 06 20:09	0° $\text{♁}$	
asc. node	7438 Jul 15 10:00	26° $\text{♁}$ 52'22		morning set	7439 Jun 21 14:52	25° $\text{♁}$ 35'06	
					7439 Jun 23 22:08	0° $\text{♁}$	
superior conj	7438 Jul 16 10:30	29° $\text{♁}$ 02'43	0°10'25	max. Earth dist.	7439 Jun 25 18:23	3° $\text{♁}$ 37'08	1.34496 AU
minimum elong	7438 Jul 16 09:59	28° $\text{♁}$ 59'59	0°10'13				
behind sun begin	7438 Jul 16 05:46	28° $\text{♁}$ 37'30		superior conj	7439 Jun 30 09:38	13° $\text{♁}$ 01'17	-0°19'05
behind sun end	7438 Jul 16 14:11	29° $\text{♁}$ 22'29		minimum elong	7439 Jun 30 10:42	13° $\text{♁}$ 06'47	0°18'59
	7438 Jul 16 21:12	0° $\text{♁}$		asc. node	7439 Jul 02 07:01	16° $\text{♁}$ 57'22	
evening rise	7438 Jul 23 12:51	14° $\text{♁}$ 16'58		evening rise	7439 Jul 07 22:21	28° $\text{♁}$ 47'29	
	7438 Jul 31 10:03	0° $\text{♁}$			7439 Jul 08 12:19	0° $\text{♁}$	
evening max el	7438 Aug 14 08:42	19° $\text{♁}$ 47'07	22°35'09		7439 Jul 26 21:27	0° $\text{♁}$	
desc. node	7438 Aug 19 13:18	23° $\text{♁}$ 54'28		evening max el	7439 Jul 27 04:40	0° $\text{♁}$ 18'00	21°03'21
retrograde	7438 Aug 27 10:59	26° $\text{♁}$ 18'50		desc. node	7439 Aug 06 10:22	6° $\text{♁}$ 02'26	
evening set	7438 Aug 30 20:26	25° $\text{♁}$ 53'34		retrograde	7439 Aug 07 23:52	6° $\text{♁}$ 08'25	
min. Earth dist.	7438 Sep 07 15:58	22° $\text{♁}$ 26'37	0.55106 AU	evening set	7439 Aug 10 05:59	5° $\text{♁}$ 56'26	
inferior conj	7438 Sep 08 19:54	21° $\text{♁}$ 46'59	-5°04'48	inferior conj	7439 Aug 19 12:38	1° $\text{♁}$ 59'03	-3°45'18
minimum elong	7438 Sep 08 12:53	21° $\text{♁}$ 56'57	5°03'41	minimum elong	7439 Aug 19 03:24	2° $\text{♁}$ 12'05	3°42'34
morning rise	7438 Sep 17 07:15	17° $\text{♁}$ 58'29		min. Earth dist.	7439 Aug 20 01:12	1° $\text{♁}$ 41'19	0.54713 AU
direct	7438 Sep 20 11:26	17° $\text{♁}$ 35'29			7439 Aug 23 03:52	30° $\text{♁}$	
morning max el	7438 Oct 01 21:20	22° $\text{♁}$ 55'47	21°05'43	morning rise	7439 Aug 28 01:15	28° $\text{♁}$ 03'24	
	7438 Oct 07 23:00	0° $\text{♁}$		direct	7439 Aug 31 19:33	27° $\text{♁}$ 33'03	
asc. node	7438 Oct 11 09:28	5° $\text{♁}$ 11'17			7439 Sep 08 21:33	0° $\text{♁}$	
morning set	7438 Oct 21 15:17	24° $\text{♁}$ 33'13		morning max el	7439 Sep 13 16:18	3° $\text{♁}$ 40'41	22°44'45
	7438 Oct 24 05:54	0° $\text{♁}$		asc. node	7439 Sep 28 06:28	23° $\text{♁}$ 54'30	
					7439 Oct 01 11:55	0° $\text{♁}$	
superior conj	7438 Oct 28 23:33	9° $\text{♁}$ 53'19	1°40'20	morning set	7439 Oct 06 02:09	9° $\text{♁}$ 23'04	
minimum elong	7438 Oct 29 00:30	9° $\text{♁}$ 58'11	1°40'21				
max. Earth dist.	7438 Nov 02 14:09	19° $\text{♁}$ 12'27	1.35492 AU	superior conj	7439 Oct 13 03:06	24° $\text{♁}$ 27'06	1°41'40
evening rise	7438 Nov 06 16:04	27° $\text{♁}$ 04'06		minimum elong	7439 Oct 13 02:44	24° $\text{♁}$ 25'09	1°41'42
	7438 Nov 08 05:55	0° $\text{♁}$			7439 Oct 15 18:08	0° $\text{♁}$	
desc. node	7438 Nov 15 12:20	12° $\text{♁}$ 44'13		max. Earth dist.	7439 Oct 16 07:27	1° $\text{♁}$ 09'25	1.33893 AU
	7438 Nov 26 16:36	0° $\text{♁}$		evening rise	7439 Oct 21 00:08	10° $\text{♁}$ 39'24	
evening max el	7438 Dec 12 02:47	18° $\text{♁}$ 49'32	26°27'39		7439 Oct 31 15:16	0° $\text{♁}$	
retrograde	7438 Dec 24 23:58	26° $\text{♁}$ 03'54		desc. node	7439 Nov 02 09:21	2° $\text{♁}$ 53'56	
evening set	7438 Dec 31 09:05	23° $\text{♁}$ 29'39			7439 Nov 22 06:55	0° $\text{♁}$	
min. Earth dist.	7439 Jan 04 12:20	19° $\text{♁}$ 13'55	0.66415 AU	evening max el	7439 Nov 24 15:34	2° $\text{♁}$ 22'27	27°11'13
inferior conj	7439 Jan 06 05:38	17° $\text{♁}$ 09'22	-0°22'52	retrograde	7439 Dec 08 01:02	9° $\text{♁}$ 42'17	
minimum elong	7439 Jan 06 06:15	17° $\text{♁}$ 07'29	0°22'30	evening set	7439 Dec 14 20:40	7° $\text{♁}$ 04'51	
asc. node	7439 Jan 07 08:46	15° $\text{♁}$ 48'29		min. Earth dist.	7439 Dec 18 18:04	3° $\text{♁}$ 23'24	0.65050 AU
morning rise	7439 Jan 12 04:13	11° $\text{♁}$ 32'08		inferior conj	7439 Dec 20 23:08	0° $\text{♁}$ 56'29	-1°26'13
direct	7439 Jan 15 04:05	10° $\text{♁}$ 34'41		minimum elong	7439 Dec 21 01:42	0° $\text{♁}$ 49'22	1°25'03
morning max el	7439 Jan 21 18:09	14° $\text{♁}$ 08'20	18°30'30		7439 Dec 21 19:41	30° $\text{♁}$	
	7439 Feb 02 10:11	0° $\text{♁}$		asc. node	7439 Dec 25 05:49	26° $\text{♁}$ 43'36	
morning set	7439 Feb 11 03:02	13° $\text{♁}$ 43'55		morning rise	7439 Dec 27 08:04	25° $\text{♁}$ 25'12	
desc. node	7439 Feb 11 11:42	14° $\text{♁}$ 18'18		direct	7439 Dec 29 23:22	24° $\text{♁}$ 48'21	
	7439 Feb 21 10:20	0° $\text{♁}$		morning max el	7440 Jan 05 09:57	28° $\text{♁}$ 12'47	18°00'51
					7440 Jan 07 01:40	0° $\text{♁}$	
superior conj	7439 Feb 27 02:17	8° $\text{♁}$ 52'47	-1°37'12	morning set	7440 Jan 23 06:03	24° $\text{♁}$ 50'34	
minimum elong	7439 Feb 26 16:40	8° $\text{♁}$ 15'11	1°36'14		7440 Jan 26 09:03	0° $\text{♁}$	
max. Earth dist.	7439 Feb 27 07:39	9° $\text{♁}$ 13'52	1.45458 AU	desc. node	7440 Jan 29 08:39	4° $\text{♁}$ 53'08	
	7439 Mar 12 12:47	0° $\text{♁}$					
evening rise	7439 Mar 14 20:57	3° $\text{♁}$ 42'19		superior conj	7440 Feb 06 11:18	17° $\text{♁}$ 55'49	-0°55'45
greatest brilliancy	7439 Mar 24 01:26	18° $\text{♁}$ 13'57	-0.8m	minimum elong	7440 Feb 06 04:43	17° $\text{♁}$ 29'43	0°54'50
	7439 Mar 31 22:34	0° $\text{♁}$		max. Earth dist.	7440 Feb 10 03:09	23° $\text{♁}$ 42'51	1.45233 AU
asc. node	7439 Apr 05 07:50	5° $\text{♁}$ 27'21			7440 Feb 14 03:30	0° $\text{♁}$	
evening max el	7439 Apr 06 00:16	6° $\text{♁}$ 10'18	18°55'48	evening rise	7440 Feb 22 15:55	13° $\text{♁}$ 12'17	
retrograde	7439 Apr 12 18:46	9° $\text{♁}$ 57'06			7440 Mar 04 15:26	0° $\text{♁}$	
evening set	7439 Apr 16 03:19	8° $\text{♁}$ 51'55		greatest brilliancy	7440 Mar 07 12:10	4° $\text{♁}$ 16'46	-0.7m
inferior conj	7439 Apr 21 16:44	3° $\text{♁}$ 08'14	3°25'46	evening max el	7440 Mar 19 06:13	19° $\text{♁}$ 46'14	19°45'44

asc. node	7440 Mar 22 04:54	22°♈20'55		asc. node	7441 Mar 09 01:59	8°♈05'39	
retrograde	7440 Mar 26 16:37	24°♈03'09		retrograde	7441 Mar 10 15:03	8°♈18'01	
evening set	7440 Mar 30 09:12	22°♈43'30		evening set	7441 Mar 14 16:54	6°♈43'26	
inferior conj	7440 Apr 04 18:30	16°♈45'13	3°17'24	inferior conj	7441 Mar 20 00:32	0°♈32'53	2°57'41
minimum elong	7440 Apr 04 17:12	16°♈49'35	3°17'13	minimum elong	7441 Mar 19 22:32	0°♈39'49	2°57'16
min. Earth dist.	7440 Apr 05 20:06	15°♈19'51	0.67141 AU		7441 Mar 20 10:04	30°♈	
morning rise	7440 Apr 10 00:55	10°♈28'21		min. Earth dist.	7441 Mar 20 12:35	29°♈51'21	0.67938 AU
direct	7440 Apr 16 00:26	7°♈48'14		morning rise	7441 Mar 25 03:55	24°♈18'13	
desc. node	7440 Apr 26 08:12	13°♈20'12		direct	7441 Mar 30 14:09	21°♈53'47	
morning max el	7440 Apr 28 02:12	15°♈02'13	25°20'56	morning max el	7441 Apr 10 11:03	28°♈23'28	23°53'20
	7440 May 10 08:28	0°♈			7441 Apr 11 23:55	0°♈	
	7440 May 29 16:45	0°♈		desc. node	7441 Apr 13 05:10	1°♈20'55	
morning set	7440 Jun 03 05:09	7°♈57'12			7441 May 04 01:51	0°♈	
max. Earth dist.	7440 Jun 06 21:13	14°♈42'16	1.36320 AU	morning set	7441 May 15 22:26	19°♈17'06	
				max. Earth dist.	7441 May 19 17:15	25°♈52'59	1.38467 AU
					7441 May 22 00:22	0°♈	
superior conj	7440 Jun 12 23:44	26°♈30'11	-0°50'16	superior conj	7441 May 27 01:11	9°♈19'40	-1°21'02
minimum elong	7440 Jun 13 02:43	26°♈44'59	0°49'49	minimum elong	7441 May 27 06:00	9°♈42'26	1°20'25
	7440 Jun 14 17:43	0°♈		evening rise	7441 Jun 05 02:09	26°♈52'36	
asc. node	7440 Jun 18 04:02	6°♈57'17		asc. node	7441 Jun 05 01:04	26°♈47'17	
evening rise	7440 Jun 21 03:42	13°♈02'09			7441 Jun 06 16:33	0°♈	
	7440 Jun 30 02:12	0°♈		evening max el	7441 Jun 21 10:44	23°♈24'39	18°54'09
evening max el	7440 Jul 08 13:33	11°♈29'28	19°48'35	retrograde	7441 Jun 29 22:33	27°♈36'08	
retrograde	7440 Jul 18 16:00	16°♈27'49		evening set	7441 Jul 01 22:25	27°♈23'10	
evening set	7440 Jul 20 12:44	16°♈18'24		inferior conj	7441 Jul 10 02:21	23°♈05'58	0°01'36
desc. node	7440 Jul 23 07:25	15°♈32'12		minimum elong	7441 Jul 10 02:25	23°♈05'52	0°01'29
inferior conj	7440 Jul 29 10:53	12°♈16'52	-1°51'55	transit middle	7441 Jul 10 02:25	23°♈05'52	0°01'29
minimum elong	7440 Jul 29 05:44	12°♈24'48	1°50'03	transit begin	7441 Jul 09 22:41	23°♈12'28	
min. Earth dist.	7440 Jul 31 13:10	10°♈59'37	0.55285 AU	transit end	7441 Jul 10 06:08	22°♈59'15	
morning rise	7440 Aug 06 20:42	7°♈53'46		desc. node	7441 Jul 10 04:29	23°♈02'10	
direct	7440 Aug 11 09:19	7°♈08'34		min. Earth dist.	7441 Jul 13 04:39	20°♈54'45	0.56719 AU
morning max el	7440 Aug 25 05:33	14°♈00'09	24°30'05	morning rise	7441 Jul 18 03:02	18°♈06'25	
	7440 Sep 06 17:39	0°♈		direct	7441 Jul 23 12:49	16°♈56'26	
asc. node	7440 Sep 14 03:27	13°♈07'59		morning max el	7441 Aug 06 19:36	24°♈20'39	26°05'55
morning set	7440 Sep 19 13:54	24°♈13'48			7441 Aug 11 24:00	0°♈	
	7440 Sep 22 06:12	0°♈			7441 Aug 30 15:58	0°♈	
superior conj	7440 Sep 26 11:31	9°♈13'42	1°36'44	asc. node	7441 Sep 01 00:26	2°♈42'58	
minimum elong	7440 Sep 26 10:07	9°♈06'04	1°36'40	morning set	7441 Sep 04 00:53	8°♈59'47	
max. Earth dist.	7440 Sep 28 08:55	13°♈20'12	1.32725 AU	superior conj	7441 Sep 10 22:35	24°♈05'13	1°26'13
evening rise	7440 Oct 03 19:00	24°♈44'12		minimum elong	7441 Sep 10 20:32	23°♈53'52	1°25'58
	7440 Oct 06 10:12	0°♈		max. Earth dist.	7441 Sep 11 16:35	25°♈44'36	1.32005 AU
desc. node	7440 Oct 19 06:24	22°♈39'31			7441 Sep 13 15:04	0°♈	
	7440 Oct 24 04:07	0°♈		evening rise	7441 Sep 17 21:33	9°♈09'04	
evening max el	7440 Nov 06 02:50	15°♈32'55	27°28'31		7441 Sep 28 18:29	0°♈	
retrograde	7440 Nov 19 19:46	22°♈50'52		desc. node	7441 Oct 06 03:29	11°♈50'38	
evening set	7440 Nov 26 21:45	20°♈18'51		evening max el	7441 Oct 19 10:20	28°♈08'00	27°14'13
min. Earth dist.	7440 Nov 30 14:46	17°♈08'36	0.63362 AU		7441 Oct 21 12:39	0°♈	
inferior conj	7440 Dec 03 07:08	14°♈28'03	-2°33'36	retrograde	7441 Nov 02 07:00	5°♈20'06	
minimum elong	7440 Dec 03 11:53	14°♈16'10	2°31'41	evening set	7441 Nov 09 08:46	3°♈04'12	
morning rise	7440 Dec 10 03:51	9°♈12'34		min. Earth dist.	7441 Nov 13 01:05	0°♈18'02	0.61412 AU
asc. node	7440 Dec 11 02:51	8°♈55'11			7441 Nov 13 09:30	30°♈	
direct	7440 Dec 12 12:57	8°♈45'25		inferior conj	7441 Nov 16 02:28	27°♈36'03	-3°41'11
morning max el	7440 Dec 19 03:13	12°♈10'01	17°48'29	minimum elong	7441 Nov 16 09:04	27°♈21'28	3°39'01
	7440 Dec 31 07:05	0°♈		morning rise	7441 Nov 23 11:31	22°♈39'36	
morning set	7441 Jan 04 11:06	7°♈12'41		direct	7441 Nov 25 17:26	22°♈18'31	
desc. node	7441 Jan 15 05:36	25°♈34'59		asc. node	7441 Nov 27 23:52	22°♈40'49	
superior conj	7441 Jan 16 16:40	28°♈00'05	-0°10'33	morning max el	7441 Dec 02 18:44	25°♈51'41	17°54'27
minimum elong	7441 Jan 16 15:33	27°♈55'28	0°10'17		7441 Dec 06 07:00	0°♈	
behind sun begin	7441 Jan 16 08:10	27°♈25'01		morning set	7441 Dec 18 11:42	20°♈30'38	
behind sun end	7441 Jan 16 22:56	28°♈25'53			7441 Dec 23 17:18	0°♈	
	7441 Jan 17 21:51	0°♈		superior conj	7441 Dec 29 00:02	9°♈19'32	0°29'47
max. Earth dist.	7441 Jan 22 20:46	8°♈00'47	1.44301 AU	minimum elong	7441 Dec 29 02:31	9°♈30'17	0°29'31
evening rise	7441 Feb 01 02:41	22°♈29'42		desc. node	7442 Jan 02 02:37	16°♈20'37	
	7441 Feb 06 00:43	0°♈		max. Earth dist.	7442 Jan 05 10:53	21°♈54'16	1.42768 AU
	7441 Feb 27 05:33	0°♈					
evening max el	7441 Mar 02 06:47	3°♈23'33	20°49'45				

	7442 Jan 10 11:10	0°♊		evening rise	7442 Dec 23 09:55	12°♊49'11	
evening rise	7442 Jan 11 21:00	2°♊13'47			7443 Jan 03 08:32	0°♊	
	7442 Jan 30 12:06	0°♊			7443 Jan 25 23:54	0°♊	
evening max el	7442 Feb 13 02:12	17°♊03'05	22°04'03	evening max el	7443 Jan 26 17:37	0°♊45'07	23°23'37
retrograde	7442 Feb 22 12:16	22°♊38'15		retrograde	7443 Feb 06 06:48	6°♊59'18	
asc. node	7442 Feb 23 23:03	22°♊27'25		asc. node	7443 Feb 10 20:07	5°♊16'49	
evening set	7442 Feb 27 00:47	20°♊48'24		evening set	7443 Feb 11 07:15	4°♊54'23	
inferior conj	7442 Mar 04 08:43	14°♊28'19	2°28'17		7443 Feb 15 14:17	30°♊	
minimum elong	7442 Mar 04 06:26	14°♊36'18	2°27'41	min. Earth dist.	7443 Feb 16 05:02	29°♊09'46	0.68273 AU
min. Earth dist.	7442 Mar 04 08:19	14°♊29'45	0.68310 AU	inferior conj	7443 Feb 16 17:08	28°♊28'13	1°50'16
morning rise	7442 Mar 09 11:55	8°♊17'28		minimum elong	7443 Feb 16 15:00	28°♊35'30	1°49'36
direct	7442 Mar 14 08:00	6°♊13'51		morning rise	7443 Feb 21 22:43	22°♊22'31	
morning max el	7442 Mar 23 21:47	11°♊51'55	22°24'05	direct	7443 Feb 26 04:49	20°♊41'38	
desc. node	7442 Mar 31 02:08	20°♊12'57		morning max el	7443 Mar 06 14:06	25°♊31'02	21°01'20
	7442 Apr 07 07:17	0°♊			7443 Mar 10 14:43	0°♊	
morning set	7442 Apr 26 13:22	29°♊21'33		desc. node	7443 Mar 17 23:07	9°♊41'50	
	7442 Apr 26 22:47	0°♊			7443 Mar 31 17:59	0°♊	
max. Earth dist.	7442 May 01 14:26	7°♊44'00	1.40703 AU	morning set	7443 Apr 06 01:10	8°♊11'52	
				max. Earth dist.	7443 Apr 13 18:07	20°♊30'24	1.42734 AU
superior conj	7442 May 09 09:41	21°♊19'42	-1°48'04		7443 Apr 19 11:33	0°♊	
minimum elong	7442 May 09 15:17	21°♊44'51	1°47'35				
	7442 May 14 03:46	0°♊		superior conj	7443 Apr 20 20:19	2°♊18'44	-2°06'34
evening rise	7442 May 19 14:24	10°♊10'51		minimum elong	7443 Apr 21 00:05	2°♊34'45	2°06'28
asc. node	7442 May 22 22:07	16°♊23'00		evening rise	7443 May 02 12:18	22°♊46'33	
	7442 May 30 22:01	0°♊			7443 May 06 13:24	0°♊	
evening max el	7442 Jun 04 16:56	5°♊56'52	18°20'15	asc. node	7443 May 09 19:11	5°♊38'25	
retrograde	7442 Jun 12 00:29	9°♊36'17		evening max el	7443 May 19 04:17	18°♊55'58	18°06'12
evening set	7442 Jun 14 07:24	9°♊15'40		retrograde	7443 May 25 19:27	22°♊19'35	
inferior conj	7442 Jun 21 15:31	4°♊37'55	1°32'04	evening set	7443 May 28 09:40	21°♊48'30	
minimum elong	7442 Jun 21 18:18	4°♊32'05	1°31'04	inferior conj	7443 Jun 04 00:47	16°♊50'26	2°33'35
min. Earth dist.	7442 Jun 25 01:17	1°♊48'54	0.58724 AU	minimum elong	7443 Jun 04 03:50	16°♊43'04	2°32'47
desc. node	7442 Jun 27 01:31	0°♊19'38		min. Earth dist.	7443 Jun 07 05:28	13°♊46'37	0.60949 AU
	7442 Jun 27 13:17	30°♊		morning rise	7443 Jun 10 19:39	10°♊54'01	
morning rise	7442 Jun 29 02:02	29°♊05'08		desc. node	7443 Jun 13 22:33	9°♊18'38	
direct	7442 Jul 05 06:04	27°♊23'47		direct	7443 Jun 17 11:01	8°♊41'41	
	7442 Jul 13 06:11	0°♊		morning max el	7443 Jul 01 17:45	16°♊40'07	27°51'49
morning max el	7442 Jul 19 15:14	5°♊09'09	27°16'33		7443 Jul 12 17:25	0°♊	
	7442 Aug 06 23:36	0°♊			7443 Jul 30 14:30	0°♊	
asc. node	7442 Aug 18 21:26	22°♊33'24		morning set	7443 Aug 03 13:48	7°♊58'21	
morning set	7442 Aug 19 09:27	23°♊36'24		asc. node	7443 Aug 05 18:28	12°♊34'01	
	7442 Aug 22 09:06	0°♊		max. Earth dist.	7443 Aug 09 12:41	20°♊41'00	1.31896 AU
superior conj	7442 Aug 26 10:26	8°♊55'49	1°10'39	superior conj	7443 Aug 10 21:16	23°♊39'57	0°50'28
minimum elong	7442 Aug 26 08:10	8°♊43'17	1°10'15	minimum elong	7443 Aug 10 19:17	23°♊28'59	0°50'01
max. Earth dist.	7442 Aug 26 03:07	8°♊15'16	1.31731 AU		7443 Aug 13 18:11	0°♊	
evening rise	7442 Sep 02 05:15	23°♊46'37		evening rise	7443 Aug 17 15:56	8°♊30'18	
	7442 Sep 05 04:57	0°♊			7443 Aug 28 16:44	0°♊	
	7442 Sep 22 20:35	0°♊		desc. node	7443 Sep 09 21:38	17°♊28'46	
desc. node	7442 Sep 23 00:34	0°♊13'22		evening max el	7443 Sep 13 04:02	20°♊53'36	25°08'01
evening max el	7442 Oct 01 11:13	9°♊55'51	26°26'00	retrograde	7443 Sep 27 01:17	27°♊54'23	
retrograde	7442 Oct 15 09:18	17°♊02'01		evening set	7443 Oct 02 18:13	26°♊40'15	
evening set	7442 Oct 22 01:07	15°♊13'02		min. Earth dist.	7443 Oct 07 15:29	23°♊59'01	0.57338 AU
min. Earth dist.	7442 Oct 26 00:38	12°♊38'22	0.59333 AU	inferior conj	7443 Oct 10 13:28	22°♊02'11	-5°22'46
inferior conj	7442 Oct 29 05:37	10°♊10'26	-4°41'47	minimum elong	7443 Oct 10 17:11	21°♊55'57	5°22'23
minimum elong	7442 Oct 29 12:27	9°♊57'15	4°40'13	morning rise	7443 Oct 18 18:26	17°♊51'01	
morning rise	7442 Nov 06 02:01	5°♊36'08		direct	7443 Oct 21 06:04	17°♊33'01	
direct	7442 Nov 08 08:36	5°♊17'55		morning max el	7443 Oct 30 06:34	21°♊50'15	19°07'03
asc. node	7442 Nov 14 20:54	7°♊56'42		asc. node	7443 Nov 01 17:54	24°♊29'49	
morning max el	7442 Nov 16 05:01	9°♊08'14	18°20'07		7443 Nov 05 17:55	0°♊	
	7442 Nov 29 17:43	0°♊		morning set	7443 Nov 16 01:34	18°♊48'06	
morning set	7442 Dec 02 01:58	4°♊26'34			7443 Nov 21 17:06	0°♊	
superior conj	7442 Dec 11 06:46	21°♊45'57	1°01'16	superior conj	7443 Nov 24 07:44	5°♊04'56	1°23'14
minimum elong	7442 Dec 11 10:19	22°♊02'11	1°00'54	minimum elong	7443 Nov 24 10:45	5°♊19'25	1°23'00
	7442 Dec 15 20:53	0°♊		max. Earth dist.	7443 Dec 01 02:11	17°♊42'55	1.38660 AU
max. Earth dist.	7442 Dec 18 20:22	5°♊09'59	1.40809 AU	evening rise	7443 Dec 04 21:04	24°♊24'06	
desc. node	7442 Dec 19 23:38	7°♊06'03		desc. node	7443 Dec 06 20:41	27°♊47'50	



	7443 Dec 08 04:07	0°♄			7444 Nov 12 12:01	0°♄	
	7443 Dec 28 02:15	0°♄		evening rise	7444 Nov 16 04:40	6°♄53'27	
evening max el	7444 Jan 09 06:55	14°♄30'19	24°42'19	desc. node	7444 Nov 22 17:43	18°♄21'12	
retrograde	7444 Jan 20 21:38	21°♄16'48			7444 Nov 29 23:34	0°♄	
evening set	7444 Jan 26 10:47	18°♄58'04		evening max el	7444 Dec 21 19:47	28°♄16'23	25°53'18
asc. node	7444 Jan 28 17:09	16°♄40'55			7444 Dec 23 16:19	0°♄	
min. Earth dist.	7444 Jan 31 00:31	13°♄47'40	0.67845 AU	retrograde	7445 Jan 03 07:46	5°♄24'28	
inferior conj	7444 Jan 31 23:56	12°♄29'59	1°04'18	evening set	7445 Jan 09 09:43	2°♄54'44	
minimum elong	7444 Jan 31 22:28	12°♄34'49	1°03'49		7445 Jan 12 06:59	30°♄♄	
morning rise	7444 Feb 06 10:21	6°♄30'58		min. Earth dist.	7445 Jan 13 16:35	28°♄18'49	0.67038 AU
direct	7444 Feb 10 03:26	5°♄11'57		asc. node	7445 Jan 14 14:12	27°♄11'00	
morning max el	7444 Feb 17 14:13	9°♄22'44	19°50'38	inferior conj	7445 Jan 15 03:16	26°♄29'47	0°10'57
greatest brilliancy	7444 Mar 01 13:52	26°♄17'29	-0.6m	minimum elong	7445 Jan 15 02:59	26°♄30'41	0°10'54
desc. node	7444 Mar 03 20:06	29°♄37'45		transit middle	7445 Jan 15 02:59	26°♄30'41	0°10'54
	7444 Mar 04 02:05	0°♄		transit begin	7445 Jan 15 00:53	26°♄37'15	
morning set	7444 Mar 14 22:20	16°♄28'07		transit end	7445 Jan 15 05:04	26°♄24'07	
	7444 Mar 23 14:49	0°♄		morning rise	7445 Jan 20 20:47	20°♄39'20	
max. Earth dist.	7444 Mar 26 04:53	4°♄05'42	1.44307 AU	direct	7445 Jan 24 02:20	19°♄39'34	
				morning max el	7445 Jan 30 21:55	23°♄23'42	18°55'00
superior conj	7444 Mar 31 06:03	12°♄12'03	-2°10'32		7445 Feb 05 10:09	0°♄	
minimum elong	7444 Mar 31 04:12	12°♄04'34	2°10'31	desc. node	7445 Feb 18 17:05	19°♄53'09	
	7444 Apr 10 23:38	0°♄		morning set	7445 Feb 22 05:13	25°♄20'51	
evening rise	7444 Apr 13 15:18	4°♄30'25			7445 Feb 25 04:48	0°♄	
asc. node	7444 Apr 25 16:14	24°♄26'49		max. Earth dist.	7445 Mar 08 20:59	18°♄15'02	1.45243 AU
	7444 Apr 29 17:14	0°♄					
evening max el	7444 May 01 17:27	2°♄13'30	18°11'12	superior conj	7445 Mar 10 18:11	21°♄12'38	-1°55'00
retrograde	7444 May 08 02:53	5°♄35'56		minimum elong	7445 Mar 10 09:56	20°♄40'11	1°54'25
evening set	7444 May 11 00:04	4°♄52'32			7445 Mar 16 07:33	0°♄	
	7444 May 16 17:19	30°♄♄		evening rise	7445 Mar 25 19:35	15°♄16'31	
inferior conj	7444 May 17 02:14	29°♄35'42	3°09'19		7445 Apr 03 21:56	0°♄	
minimum elong	7444 May 17 04:13	29°♄30'17	3°08'58	asc. node	7445 Apr 12 13:17	12°♄39'59	
min. Earth dist.	7444 May 19 18:42	26°♄40'27	0.63111 AU	evening max el	7445 Apr 15 05:36	15°♄42'53	18°34'33
morning rise	7444 May 23 06:56	23°♄25'52		retrograde	7445 Apr 21 18:27	19°♄17'17	
direct	7444 May 30 01:50	20°♄50'06		evening set	7445 Apr 24 22:43	18°♄20'21	
desc. node	7444 May 30 19:35	20°♄51'49		inferior conj	7445 Apr 30 15:49	12°♄46'15	3°24'30
morning max el	7444 Jun 13 01:23	28°♄52'48	27°48'48	minimum elong	7445 Apr 30 16:23	12°♄44'33	3°24'24
	7444 Jun 14 03:33	0°♄		min. Earth dist.	7445 May 02 17:12	10°♄18'00	0.65000 AU
	7444 Jul 05 14:34	0°♄		morning rise	7445 May 06 09:19	6°♄30'34	
morning set	7444 Jul 17 11:37	21°♄58'05		direct	7445 May 13 00:39	3°♄43'29	
	7444 Jul 21 09:20	0°♄		desc. node	7445 May 17 16:34	4°♄52'37	
max. Earth dist.	7444 Jul 22 17:03	2°♄47'51	1.32523 AU	morning max el	7445 May 26 11:23	11°♄38'21	27°11'09
asc. node	7444 Jul 22 15:28	2°♄39'23			7445 Jun 10 01:43	0°♄	
					7445 Jun 28 03:15	0°♄	
superior conj	7444 Jul 25 05:12	8°♄10'59	0°26'06	morning set	7445 Jul 01 00:12	5°♄28'06	
minimum elong	7444 Jul 25 04:00	8°♄04'27	0°25'46	max. Earth dist.	7445 Jul 05 12:34	14°♄27'24	1.33635 AU
evening rise	7444 Aug 01 03:36	23°♄13'01					
	7444 Aug 04 09:28	0°♄		superior conj	7445 Jul 09 08:14	22°♄23'27	-0°01'49
	7444 Aug 23 09:58	0°♄		minimum elong	7445 Jul 09 08:20	22°♄23'59	0°01'53
evening max el	7444 Aug 24 15:42	1°♄14'52	23°32'07	behind sun begin	7445 Jul 09 02:48	21°♄54'45	
desc. node	7444 Aug 26 18:42	3°♄09'42		behind sun end	7445 Jul 09 13:53	22°♄53'15	
retrograde	7444 Sep 07 05:19	8°♄02'40		asc. node	7445 Jul 09 12:28	22°♄45'48	
evening set	7444 Sep 11 11:28	7°♄22'58			7445 Jul 12 22:07	0°♄	
min. Earth dist.	7444 Sep 18 01:33	4°♄16'39	0.55724 AU	evening rise	7445 Jul 16 14:27	7°♄49'34	
inferior conj	7444 Sep 20 01:09	3°♄05'58	-5°26'21		7445 Jul 28 07:51	0°♄	
minimum elong	7444 Sep 19 22:04	3°♄10'33	5°26'09	evening max el	7445 Aug 06 06:22	11°♄32'46	21°54'36
	7444 Sep 25 23:11	30°♄♄		desc. node	7445 Aug 13 15:44	16°♄44'01	
morning rise	7444 Sep 28 10:56	29°♄12'40		retrograde	7445 Aug 18 21:32	17°♄48'55	
direct	7444 Oct 01 07:49	28°♄52'25		evening set	7445 Aug 21 17:05	17°♄31'12	
	7444 Oct 06 09:18	0°♄		inferior conj	7445 Aug 30 21:32	13°♄30'14	-4°37'10
morning max el	7444 Oct 11 20:17	3°♄47'32	20°16'15	minimum elong	7445 Aug 30 12:41	13°♄42'39	4°35'11
asc. node	7444 Oct 18 14:55	12°♄03'56		min. Earth dist.	7445 Aug 30 10:31	13°♄45'40	0.54821 AU
	7444 Oct 28 14:50	0°♄		morning rise	7445 Sep 08 09:37	9°♄40'52	
morning set	7444 Oct 30 07:20	3°♄25'26		direct	7445 Sep 11 19:21	9°♄15'18	
				morning max el	7445 Sep 23 21:13	14°♄56'18	21°46'08
superior conj	7444 Nov 06 21:58	19°♄01'26	1°36'21	asc. node	7445 Oct 05 11:55	0°♄25'13	
minimum elong	7444 Nov 06 23:43	19°♄10'16	1°36'19		7445 Oct 05 06:00	0°♄	
max. Earth dist.	7444 Nov 12 08:31	29°♄43'22	1.36577 AU	morning set	7445 Oct 14 16:54	18°♄12'08	

	7445 Oct 20 06:46	0°♍		morning set	7446 Sep 29 04:21	3°♊02'47	
superior conj	7445 Oct 21 21:33	3°♍24'06	1°41'42	superior conj	7446 Oct 06 03:27	18°♊03'53	1°40'17
minimum elong	7445 Oct 21 21:55	3°♍26'01	1°41'45	minimum elong	7446 Oct 06 02:36	17°♊59'19	1°40'18
max. Earth dist.	7445 Oct 25 21:00	11°♍35'55	1.34766 AU	max. Earth dist.	7446 Oct 08 18:08	23°♊39'03	1.33343 AU
evening rise	7445 Oct 30 04:58	20°♍07'49			7446 Oct 11 19:15	0°♍	
	7445 Nov 04 13:14	0°♊		evening rise	7446 Oct 13 18:04	3°♍56'50	
desc. node	7445 Nov 09 14:45	8°♊41'19		desc. node	7446 Oct 27 11:47	28°♍41'57	
	7445 Nov 23 23:17	0°♊			7446 Oct 28 07:20	0°♊	
evening max el	7445 Dec 04 09:00	11°♊57'46	26°49'01	evening max el	7446 Nov 16 21:40	25°♊23'54	27°22'15
retrograde	7445 Dec 17 12:21	19°♊15'35			7446 Nov 22 14:40	0°♊	
evening set	7445 Dec 24 02:06	16°♊39'25		retrograde	7446 Nov 30 10:37	2°♊42'44	
min. Earth dist.	7445 Dec 28 02:50	12°♊38'07	0.65875 AU	evening set	7446 Dec 07 09:37	0°♊06'44	
inferior conj	7445 Dec 30 01:03	10°♊23'18	-0°49'06		7446 Dec 07 13:11	30°♊♊	
minimum elong	7445 Dec 30 02:27	10°♊19'13	0°48'24	min. Earth dist.	7446 Dec 11 05:02	26°♊39'00	0.64370 AU
asc. node	7446 Jan 01 11:15	7°♊40'45		inferior conj	7446 Dec 13 14:55	24°♊05'23	-1°54'26
morning rise	7446 Jan 05 03:47	4°♊43'56		minimum elong	7446 Dec 13 18:24	23°♊56'06	1°52'55
direct	7446 Jan 07 23:44	3°♊59'44		asc. node	7446 Dec 19 08:17	19°♊05'08	
morning max el	7446 Jan 14 11:28	7°♊28'29	18°15'41	morning rise	7446 Dec 20 04:41	18°♊40'09	
	7446 Jan 30 03:37	0°♊		direct	7446 Dec 22 17:09	18°♊07'46	
morning set	7446 Feb 02 15:14	5°♊37'09		morning max el	7446 Dec 29 04:16	21°♊31'01	17°53'26
desc. node	7446 Feb 05 14:02	10°♊22'09			7447 Jan 04 17:25	0°♊	
				morning set	7447 Jan 15 06:15	17°♊19'27	
superior conj	7446 Feb 17 22:33	29°♊58'54	-1°20'46		7447 Jan 22 20:15	0°♊	
minimum elong	7446 Feb 17 13:32	29°♊23'30	1°19'42	desc. node	7447 Jan 23 11:01	1°♊00'49	
	7446 Feb 17 22:50	0°♊					
max. Earth dist.	7446 Feb 19 16:16	2°♊42'28	1.45455 AU	superior conj	7447 Jan 28 14:52	9°♊24'36	-0°36'25
evening rise	7446 Mar 06 00:57	25°♊08'36		minimum elong	7447 Jan 28 10:39	9°♊07'38	0°35'44
	7446 Mar 09 03:33	0°♊		max. Earth dist.	7447 Feb 02 11:55	17°♊11'24	1.44927 AU
greatest brilliancy	7446 Mar 17 09:58	12°♊48'55	-0.7m		7447 Feb 10 16:45	0°♊	
evening max el	7446 Mar 29 14:24	29°♊17'46	19°15'14	evening rise	7447 Feb 13 14:46	4°♊29'39	
asc. node	7446 Mar 30 10:21	0°♊06'21		greatest brilliancy	7447 Feb 28 09:39	26°♊46'29	-0.6m
	7446 Mar 30 07:38	0°♊			7447 Mar 02 15:13	0°♊	
retrograde	7446 Apr 05 14:44	3°♊15'51		evening max el	7447 Mar 12 18:13	12°♊54'48	20°11'24
evening set	7446 Apr 09 02:38	2°♊04'34		asc. node	7447 Mar 17 07:24	16°♊32'43	
	7446 Apr 11 11:21	30°♊♊		retrograde	7447 Mar 20 13:03	17°♊26'31	
inferior conj	7446 Apr 14 13:59	26°♊14'42	3°23'43	evening set	7447 Mar 24 09:33	16°♊00'21	
minimum elong	7446 Apr 14 13:16	26°♊17'01	3°23'37	inferior conj	7447 Mar 29 17:52	9°♊56'31	3°10'16
min. Earth dist.	7446 Apr 15 23:58	24°♊24'49	0.66492 AU	minimum elong	7447 Mar 29 16:13	10°♊02'08	3°10'00
morning rise	7446 Apr 19 23:32	19°♊57'40		min. Earth dist.	7447 Mar 30 13:28	8°♊50'02	0.67543 AU
direct	7446 Apr 26 05:57	17°♊11'57		morning rise	7447 Apr 03 22:40	3°♊40'38	
desc. node	7446 May 04 13:34	20°♊49'36		direct	7447 Apr 09 16:44	1°♊06'32	
morning max el	7446 May 08 21:23	24°♊44'30	26°06'31	desc. node	7447 Apr 21 10:33	8°♊12'25	
	7446 May 13 15:21	0°♊		morning max el	7447 Apr 21 06:33	8°♊02'15	24°44'25
	7446 Jun 03 12:37	0°♊			7447 May 08 11:03	0°♊	
morning set	7446 Jun 13 23:51	18°♊17'47		morning set	7447 May 27 05:51	0°♊14'36	
max. Earth dist.	7446 Jun 17 21:13	25°♊40'26	1.35226 AU		7447 May 27 02:32	0°♊	
	7446 Jun 20 02:12	0°♊		max. Earth dist.	7447 May 30 20:41	6°♊44'59	1.37215 AU
superior conj	7446 Jun 23 03:54	6°♊10'10	-0°32'14	superior conj	7447 Jun 06 13:05	19°♊23'10	-1°03'33
minimum elong	7446 Jun 23 05:45	6°♊19'35	0°31'57	minimum elong	7447 Jun 06 16:53	19°♊41'43	1°02'59
asc. node	7446 Jun 26 09:30	12°♊48'57			7447 Jun 11 21:38	0°♊	
evening rise	7446 Jun 30 22:26	22°♊13'42		asc. node	7447 Jun 13 06:32	2°♊45'02	
	7446 Jul 04 18:47	0°♊		evening rise	7447 Jun 15 01:12	6°♊18'54	
evening max el	7446 Jul 19 07:38	22°♊18'58	20°29'09		7447 Jun 28 14:19	0°♊	
retrograde	7446 Jul 30 09:34	27°♊46'54		evening max el	7447 Jul 01 21:58	3°♊48'37	19°22'47
desc. node	7446 Jul 31 12:47	27°♊43'40		retrograde	7447 Jul 11 06:57	8°♊25'48	
evening set	7446 Aug 01 09:52	27°♊36'52		evening set	7447 Jul 13 04:10	8°♊15'24	
inferior conj	7446 Aug 10 14:40	23°♊39'45	-2°59'20	desc. node	7447 Jul 18 09:51	6°♊13'06	
minimum elong	7446 Aug 10 06:38	23°♊51'22	2°56'37	inferior conj	7447 Jul 21 19:09	4°♊07'43	-1°01'52
min. Earth dist.	7446 Aug 11 20:32	22°♊56'33	0.54844 AU	minimum elong	7447 Jul 21 16:23	4°♊12'14	1°00'54
morning rise	7446 Aug 19 02:47	19°♊34'40		min. Earth dist.	7447 Jul 24 09:30	2°♊26'31	0.55805 AU
direct	7446 Aug 23 04:44	18°♊58'53			7447 Jul 28 19:48	30°♊♊	
morning max el	7446 Sep 05 12:39	25°♊25'56	23°29'42	morning rise	7447 Jul 30 01:54	29°♊29'44	
	7446 Sep 09 19:24	0°♊		direct	7447 Aug 03 23:26	28°♊35'22	
asc. node	7446 Sep 22 08:55	19°♊22'13			7447 Aug 10 01:50	0°♊	
	7446 Sep 27 17:33	0°♊		morning max el	7447 Aug 18 01:26	5°♊41'34	25°13'15

	7447 Sep 04 14:35	0°♎		morning max el	7448 Jul 29 17:50	16°♊12'49	26°39'56
asc. node	7447 Sep 09 05:55	8°♎45'36			7448 Aug 09 23:57	0°♎	
morning set	7447 Sep 13 15:59	17°♎51'57		asc. node	7448 Aug 26 02:55	28°♎28'11	
	7447 Sep 19 05:46	0°♏			7448 Aug 26 20:39	0°♎	
				morning set	7448 Aug 28 02:10	2°♎35'01	
superior conj	7447 Sep 20 13:12	2°♏52'54	1°32'55				
minimum elong	7447 Sep 20 11:29	2°♏43'25	1°32'47	superior conj	7448 Sep 04 00:51	17°♎45'02	1°20'13
max. Earth dist.	7447 Sep 21 22:46	5°♏56'44	1.32360 AU	minimum elong	7448 Sep 03 22:39	17°♎32'52	1°19'54
evening rise	7447 Sep 27 16:31	18°♏10'37		max. Earth dist.	7448 Sep 04 08:05	18°♎25'06	1.31828 AU
	7447 Oct 03 16:21	0°♌			7448 Sep 09 15:06	0°♏	
desc. node	7447 Oct 14 08:51	18°♌14'16		evening rise	7448 Sep 10 21:32	2°♏41'43	
	7447 Oct 22 18:48	0°♍			7448 Sep 25 13:06	0°♌	
evening max el	7447 Oct 30 07:36	8°♍20'30	27°26'34	desc. node	7448 Sep 30 05:56	7°♌06'53	
retrograde	7447 Nov 13 02:05	15°♍35'52		evening max el	7448 Oct 11 12:20	20°♌35'34	26°57'43
evening set	7447 Nov 20 05:12	13°♍09'08		retrograde	7448 Oct 25 09:55	27°♌45'51	
min. Earth dist.	7447 Nov 23 21:13	10°♍10'38	0.62558 AU	evening set	7448 Nov 01 08:54	25°♌39'43	
inferior conj	7447 Nov 26 17:56	7°♍27'46	-3°02'33	min. Earth dist.	7448 Nov 05 02:44	23°♌00'35	0.60531 AU
minimum elong	7447 Nov 26 23:34	7°♍14'23	3°00'27	inferior conj	7448 Nov 08 06:47	20°♌22'08	-4°08'23
morning rise	7447 Dec 03 19:55	2°♍20'10		minimum elong	7448 Nov 08 13:46	20°♌07'31	4°06'20
direct	7447 Dec 06 03:23	1°♍55'55		morning rise	7448 Nov 15 20:56	15°♌35'10	
asc. node	7447 Dec 06 05:19	1°♍55'57		direct	7448 Nov 18 02:32	15°♌15'46	
morning max el	7447 Dec 12 21:14	5°♍22'46	17°48'49	asc. node	7448 Nov 22 02:20	16°♌20'48	
morning set	7447 Dec 28 20:26	0°♋07'48		morning max el	7448 Nov 25 11:01	18°♌55'03	18°02'56
	7447 Dec 28 18:40	0°♋			7448 Dec 03 12:30	0°♍	
				morning set	7448 Dec 11 03:23	13°♍42'59	
superior conj	7448 Jan 09 07:19	20°♋01'14	0°07'30		7448 Dec 20 00:21	0°♋	
minimum elong	7448 Jan 09 08:03	20°♋04'20	0°07'29				
behind sun begin	7448 Jan 09 00:02	19°♋30'34		superior conj	7448 Dec 21 01:11	1°♋50'40	0°44'18
behind sun end	7448 Jan 09 16:05	20°♋38'03		minimum elong	7448 Dec 21 04:23	2°♋04'50	0°43'56
desc. node	7448 Jan 10 08:01	21°♋44'47		desc. node	7448 Dec 27 05:03	12°♋30'37	
	7448 Jan 15 08:20	0°♐		max. Earth dist.	7448 Dec 28 16:21	14°♋58'46	1.41970 AU
max. Earth dist.	7448 Jan 16 04:39	1°♐22'09	1.43716 AU	evening rise	7449 Jan 03 04:13	23°♋57'21	
evening rise	7448 Jan 24 03:00	13°♐54'15			7449 Jan 07 00:06	0°♐	
	7448 Feb 03 18:12	0°♏			7449 Jan 27 18:10	0°♏	
evening max el	7448 Feb 23 16:26	26°♏32'39	21°20'15	evening max el	7449 Feb 05 09:49	10°♏12'23	22°37'34
	7448 Feb 27 16:45	0°♑		retrograde	7449 Feb 15 07:41	16°♏05'21	
retrograde	7448 Mar 03 11:18	1°♑44'28		asc. node	7449 Feb 18 01:33	15°♏27'01	
asc. node	7448 Mar 03 04:29	1°♑44'03		evening set	7449 Feb 20 01:03	14°♏09'04	
evening set	7448 Mar 07 17:34	0°♑03'11		inferior conj	7449 Feb 25 09:37	7°♏45'40	2°13'10
	7448 Mar 07 19:09	30°♏♏		minimum elong	7449 Feb 25 07:20	7°♏53'35	2°12'31
inferior conj	7448 Mar 13 01:06	23°♏47'57	2°46'18	min. Earth dist.	7449 Feb 25 04:09	8°♏04'38	0.68340 AU
minimum elong	7448 Mar 12 22:55	23°♏55'31	2°45'48	morning rise	7449 Mar 02 13:30	1°♏36'37	
min. Earth dist.	7448 Mar 13 07:38	23°♏25'14	0.68150 AU		7449 Mar 05 07:52	30°♏♐	
morning rise	7448 Mar 18 04:05	17°♏34'46		direct	7449 Mar 07 03:28	29°♐42'41	
direct	7448 Mar 23 08:13	15°♏19'04			7449 Mar 09 01:01	0°♏	
morning max el	7448 Apr 02 16:02	21°♏27'08	23°15'01	morning max el	7449 Mar 16 04:48	4°♏59'48	21°47'37
desc. node	7448 Apr 07 07:32	26°♏37'03		desc. node	7449 Mar 25 04:31	15°♏46'09	
	7448 Apr 10 01:01	0°♑			7449 Apr 04 06:02	0°♑	
	7448 Apr 30 17:37	0°♒		morning set	7449 Apr 17 15:31	20°♑35'24	
morning set	7448 May 07 12:34	11°♒04'09			7449 Apr 23 10:12	0°♒	
max. Earth dist.	7448 May 11 16:40	18°♒11'00	1.39424 AU	max. Earth dist.	7449 Apr 23 15:45	0°♒23'02	1.41604 AU
	7448 May 18 07:25	0°♓					
superior conj	7448 May 19 07:54	1°♓52'53	-1°33'12	superior conj	7449 May 01 07:40	13°♒27'55	-1°57'18
minimum elong	7448 May 19 13:16	2°♓17'42	1°32'36	minimum elong	7449 May 01 12:55	13°♒50'56	1°56'59
evening rise	7448 May 28 19:50	19°♓57'15			7449 May 10 11:48	0°♓	
asc. node	7448 May 30 03:35	22°♓29'45		evening rise	7449 May 12 02:33	2°♓58'26	
	7448 Jun 03 03:25	0°♊		asc. node	7449 May 17 00:38	11°♓57'22	
evening max el	7448 Jun 13 23:25	16°♊00'40	18°37'14	evening max el	7449 May 28 08:16	28°♓45'29	18°11'55
retrograde	7448 Jun 21 22:02	19°♊57'01			7449 May 29 17:38	0°♊	
evening set	7448 Jun 24 00:32	19°♊41'21		retrograde	7449 Jun 04 07:32	2°♊16'12	
inferior conj	7448 Jul 01 19:53	15°♊15'31	0°43'27	evening set	7449 Jun 06 17:32	1°♊51'32	
minimum elong	7448 Jul 01 21:27	15°♊12'31	0°42'47		7449 Jun 10 04:48	30°♏♓	
desc. node	7448 Jul 04 06:54	13°♊22'57		inferior conj	7449 Jun 13 18:00	27°♓05'23	2°01'36
min. Earth dist.	7448 Jul 05 03:09	12°♊45'35	0.57515 AU	minimum elong	7449 Jun 13 21:08	26°♓58'24	2°00'36
morning rise	7448 Jul 09 14:54	10°♊00'30		min. Earth dist.	7449 Jun 17 02:59	24°♓06'42	0.59660 AU
direct	7448 Jul 15 08:47	8°♊37'47		morning rise	7449 Jun 20 21:48	21°♓21'04	
				desc. node	7449 Jun 21 03:56	21°♓12'08	

direct	7449 Jun 27 07:43	19° $\Pi$ 25'39		morning rise	7450 Jun 02 23:15	3° $\Pi$ 29'50	
morning max el	7449 Jul 11 16:26	27° $\Pi$ 18'26	27°36'09	desc. node	7450 Jun 08 00:57	1° $\Pi$ 14'44	
	7449 Jul 14 06:14	0° $\mathfrak{S}$		direct	7450 Jun 09 17:19	1° $\Pi$ 06'03	
	7449 Aug 03 15:17	0° $\Omega$		morning max el	7450 Jun 23 21:09	9° $\Pi$ 06'54	27°54'58
morning set	7449 Aug 12 09:09	17° $\Omega$ 05'43			7450 Jul 10 00:10	0° $\mathfrak{S}$	
asc. node	7449 Aug 12 23:56	18° $\Omega$ 23'16			7450 Jul 26 19:32	0° $\Omega$	
	7449 Aug 18 08:42	0° $\mathfrak{M}$		morning set	7450 Jul 27 10:59	1° $\Omega$ 18'33	
max. Earth dist.	7449 Aug 18 18:26	0° $\mathfrak{M}$ 53'39	1.31742 AU	asc. node	7450 Jul 30 20:57	8° $\Omega$ 26'09	
				max. Earth dist.	7450 Aug 02 02:09	13° $\Omega$ 11'54	1.32110 AU
superior conj	7449 Aug 19 12:28	2° $\mathfrak{M}$ 33'24	1°02'38				
minimum elong	7449 Aug 19 10:15	2° $\mathfrak{M}$ 21'12	1°02'12	superior conj	7450 Aug 03 22:18	17° $\Omega$ 12'29	0°40'36
evening rise	7449 Aug 26 06:43	17° $\mathfrak{M}$ 22'11		minimum elong	7450 Aug 03 20:35	17° $\Omega$ 03'04	0°40'11
	7449 Sep 01 11:29	0° $\mathfrak{L}$			7450 Aug 09 18:36	0° $\mathfrak{M}$	
desc. node	7449 Sep 17 03:00	25° $\mathfrak{L}$ 03'24		evening rise	7450 Aug 10 18:02	2° $\mathfrak{M}$ 06'01	
	7449 Sep 21 09:21	0° $\mathfrak{M}$			7450 Aug 25 18:54	0° $\mathfrak{L}$	
evening max el	7449 Sep 23 09:43	2° $\mathfrak{M}$ 01'09	25°55'59	desc. node	7450 Sep 04 00:04	11° $\mathfrak{L}$ 41'54	
retrograde	7449 Oct 07 08:21	9° $\mathfrak{M}$ 05'45		evening max el	7450 Sep 04 23:51	12° $\mathfrak{L}$ 40'45	24°28'29
evening set	7449 Oct 13 15:50	7° $\mathfrak{M}$ 31'09		retrograde	7450 Sep 18 19:04	19° $\mathfrak{L}$ 36'46	
min. Earth dist.	7449 Oct 17 22:30	4° $\mathfrak{M}$ 55'44	0.58453 AU	evening set	7450 Sep 23 22:09	18° $\mathfrak{L}$ 38'22	
inferior conj	7449 Oct 21 01:59	2° $\mathfrak{M}$ 38'57	-5°02'35	min. Earth dist.	7450 Sep 29 10:52	15° $\mathfrak{L}$ 48'25	0.56586 AU
minimum elong	7449 Oct 21 08:00	2° $\mathfrak{M}$ 28'00	5°01'30	inferior conj	7450 Oct 02 01:05	14° $\mathfrak{L}$ 10'05	-5°30'00
	7449 Oct 25 00:17	30° $\mathfrak{R}$ $\mathfrak{L}$		minimum elong	7450 Oct 02 02:13	14° $\mathfrak{L}$ 08'18	5°29'57
morning rise	7449 Oct 29 02:28	28° $\mathfrak{L}$ 14'31		morning rise	7450 Oct 10 08:28	10° $\mathfrak{L}$ 07'14	
direct	7449 Oct 31 10:26	27° $\mathfrak{L}$ 56'50		direct	7450 Oct 12 23:41	9° $\mathfrak{L}$ 48'28	
	7449 Nov 06 09:11	0° $\mathfrak{M}$		morning max el	7450 Oct 22 14:40	14° $\mathfrak{L}$ 20'49	19°33'45
asc. node	7449 Nov 08 23:21	2° $\mathfrak{M}$ 10'51		asc. node	7450 Oct 26 20:22	19° $\mathfrak{L}$ 11'18	
morning max el	7449 Nov 08 18:00	1° $\mathfrak{M}$ 57'48	18°37'23		7450 Nov 02 15:30	0° $\mathfrak{M}$	
morning set	7449 Nov 24 22:02	27° $\mathfrak{M}$ 50'33		morning set	7450 Nov 09 00:35	12° $\mathfrak{M}$ 19'28	
	7449 Nov 26 00:42	0° $\mathfrak{X}$					
superior conj	7449 Dec 03 16:15	14° $\mathfrak{X}$ 40'38	1°11'43	superior conj	7450 Nov 16 23:20	28° $\mathfrak{M}$ 16'25	1°29'48
minimum elong	7449 Dec 03 19:43	14° $\mathfrak{X}$ 56'49	1°11'23	minimum elong	7450 Nov 17 01:51	28° $\mathfrak{M}$ 28'48	1°29'41
max. Earth dist.	7449 Dec 10 23:28	27° $\mathfrak{X}$ 53'51	1.39899 AU		7450 Nov 17 20:29	0° $\mathfrak{X}$	
	7449 Dec 12 04:31	0° $\mathfrak{Z}$		max. Earth dist.	7450 Nov 23 05:07	10° $\mathfrak{X}$ 11'25	1.37753 AU
desc. node	7449 Dec 14 02:05	3° $\mathfrak{Z}$ 14'51		evening rise	7450 Nov 26 22:45	16° $\mathfrak{X}$ 56'41	
evening rise	7449 Dec 15 02:32	4° $\mathfrak{Z}$ 57'58		desc. node	7450 Nov 30 23:05	23° $\mathfrak{X}$ 53'18	
	7449 Dec 31 03:50	0° $\mathfrak{A}$			7450 Dec 04 15:43	0° $\mathfrak{Z}$	
evening max el	7450 Jan 19 00:10	23° $\mathfrak{A}$ 56'09	23°57'43		7450 Dec 25 14:40	0° $\mathfrak{A}$	
	7450 Jan 27 13:00	0° $\mathfrak{X}$		evening max el	7451 Jan 01 13:18	7° $\mathfrak{A}$ 42'35	25°14'02
retrograde	7450 Jan 30 00:48	0° $\mathfrak{X}$ 25'21		retrograde	7451 Jan 13 13:32	14° $\mathfrak{A}$ 38'56	
	7450 Feb 01 09:13	30° $\mathfrak{R}$ $\mathfrak{A}$		evening set	7451 Jan 19 08:12	12° $\mathfrak{A}$ 15'17	
evening set	7450 Feb 04 06:27	28° $\mathfrak{A}$ 14'37		asc. node	7451 Jan 22 19:38	8° $\mathfrak{A}$ 33'28	
asc. node	7450 Feb 04 22:35	27° $\mathfrak{A}$ 38'15		min. Earth dist.	7451 Jan 23 18:59	7° $\mathfrak{A}$ 19'32	0.67546 AU
min. Earth dist.	7450 Feb 09 00:44	22° $\mathfrak{A}$ 44'15	0.68132 AU	inferior conj	7451 Jan 24 23:06	5° $\mathfrak{A}$ 48'09	0°42'34
inferior conj	7450 Feb 09 17:34	21° $\mathfrak{A}$ 47'05	1°31'45	minimum elong	7451 Jan 24 22:05	5° $\mathfrak{A}$ 51'29	0°42'14
minimum elong	7450 Feb 09 15:40	21° $\mathfrak{A}$ 53'33	1°31'07		7451 Jan 30 07:53	30° $\mathfrak{R}$ $\mathfrak{Z}$	
morning rise	7450 Feb 15 00:53	15° $\mathfrak{A}$ 43'46		morning rise	7451 Jan 30 12:15	29° $\mathfrak{Z}$ 52'29	
direct	7450 Feb 19 01:20	14° $\mathfrak{A}$ 12'13		direct	7451 Feb 03 00:21	28° $\mathfrak{Z}$ 41'51	
morning max el	7450 Feb 27 00:10	18° $\mathfrak{A}$ 43'58	20°29'33		7451 Feb 06 22:06	0° $\mathfrak{A}$	
	7450 Mar 08 04:34	0° $\mathfrak{X}$		morning max el	7451 Feb 10 03:33	2° $\mathfrak{A}$ 39'28	19°25'04
desc. node	7450 Mar 12 01:30	5° $\mathfrak{X}$ 27'46		greatest brilliancy	7451 Feb 23 02:37	19° $\mathfrak{A}$ 46'55	-0.7m
morning set	7450 Mar 27 18:40	29° $\mathfrak{X}$ 03'56		desc. node	7451 Feb 26 22:27	25° $\mathfrak{A}$ 32'29	
	7450 Mar 28 09:07	0° $\mathfrak{Y}$			7451 Mar 01 20:38	0° $\mathfrak{X}$	
max. Earth dist.	7450 Apr 05 22:17	13° $\mathfrak{Y}$ 31'01	1.43472 AU	morning set	7451 Mar 06 16:55	7° $\mathfrak{X}$ 26'57	
				max. Earth dist.	7451 Mar 19 12:06	27° $\mathfrak{X}$ 24'35	1.44795 AU
superior conj	7450 Apr 12 08:00	23° $\mathfrak{Y}$ 59'58	-2°10'23		7451 Mar 21 03:22	0° $\mathfrak{Y}$	
minimum elong	7450 Apr 12 09:49	24° $\mathfrak{Y}$ 07'31	2°10'24	superior conj	7451 Mar 23 07:32	3° $\mathfrak{Y}$ 27'35	-2°06'28
	7450 Apr 15 21:45	0° $\mathfrak{B}$		minimum elong	7451 Mar 23 02:40	3° $\mathfrak{Y}$ 08'12	2°06'17
evening rise	7450 Apr 24 17:00	15° $\mathfrak{B}$ 13'23		evening rise	7451 Apr 06 10:38	26° $\mathfrak{Y}$ 32'47	
	7450 May 03 06:26	0° $\mathfrak{H}$			7451 Apr 08 12:17	0° $\mathfrak{B}$	
asc. node	7450 May 03 21:41	1° $\mathfrak{H}$ 02'23		asc. node	7451 Apr 20 18:43	19° $\mathfrak{B}$ 36'47	
evening max el	7450 May 11 20:54	11° $\mathfrak{H}$ 54'08	18°06'01	evening max el	7451 Apr 25 09:59	25° $\mathfrak{B}$ 17'31	18°18'54
retrograde	7450 May 18 08:14	15° $\mathfrak{H}$ 15'06		retrograde	7451 May 01 19:38	28° $\mathfrak{B}$ 43'16	
evening set	7450 May 21 01:32	14° $\mathfrak{H}$ 38'52		evening set	7451 May 04 19:54	27° $\mathfrak{B}$ 54'02	
inferior conj	7450 May 27 10:40	9° $\mathfrak{H}$ 32'45	2°51'34	inferior conj	7451 May 10 17:45	22° $\mathfrak{B}$ 29'27	3°17'57
minimum elong	7450 May 27 13:21	9° $\mathfrak{H}$ 25'53	2°50'56	minimum elong	7451 May 10 19:08	22° $\mathfrak{B}$ 25'29	3°17'44
min. Earth dist.	7450 May 30 10:49	6° $\mathfrak{H}$ 29'58	0.61902 AU	min. Earth dist.	7451 May 13 03:50	19° $\mathfrak{B}$ 44'12	0.63963 AU

morning rise	7451 May 16 17:19	16°♄16'35		evening set	7452 Apr 17 21:07	11°♄29'31	
direct	7451 May 23 11:28	13°♄34'45		inferior conj	7452 Apr 23 11:23	5°♄48'12	3°25'54
desc. node	7451 May 25 21:56	13°♄53'32		minimum elong	7452 Apr 23 11:22	5°♄48'14	3°25'50
morning max el	7451 Jun 06 06:08	21°♄34'45	27°36'40	min. Earth dist.	7452 Apr 25 06:03	3°♄35'28	0.65682 AU
	7451 Jun 13 14:01	0°♄			7452 Apr 28 12:24	30°♄	
	7451 Jul 03 04:03	0°♄		morning rise	7452 Apr 29 01:05	29°♄31'22	
morning set	7451 Jul 11 05:16	15°♄06'40		direct	7452 May 05 12:59	26°♄43'42	
max. Earth dist.	7451 Jul 16 03:24	25°♄09'03	1.32942 AU	desc. node	7452 May 11 18:56	28°♄47'21	
asc. node	7451 Jul 17 17:58	28°♄32'27			7452 May 13 13:55	0°♄	
	7451 Jul 18 10:24	0°♄		morning max el	7452 May 18 16:36	4°♄31'08	26°46'32
					7452 Jun 07 01:45	0°♄	
superior conj	7451 Jul 19 04:27	1°♄36'29	0°14'39	morning set	7452 Jun 23 12:53	28°♄21'05	
minimum elong	7451 Jul 19 03:44	1°♄32'39	0°14'26		7452 Jun 24 09:34	0°♄	
behind sun begin	7451 Jul 19 01:23	1°♄20'06		max. Earth dist.	7452 Jun 27 18:41	6°♄37'41	1.34255 AU
behind sun end	7451 Jul 19 06:04	1°♄45'13					
evening rise	7451 Jul 26 05:38	16°♄47'14		superior conj	7452 Jul 02 04:41	15°♄38'42	-0°14'29
	7451 Aug 01 18:13	0°♄		minimum elong	7452 Jul 02 05:29	15°♄42'50	0°14'24
evening max el	7451 Aug 17 11:43	22°♄56'17	22°49'49	behind sun begin	7452 Jul 02 02:55	15°♄29'31	
desc. node	7451 Aug 21 21:06	26°♄33'28		behind sun end	7452 Jul 02 08:02	15°♄56'11	
retrograde	7451 Aug 30 17:24	29°♄32'55		asc. node	7452 Jul 03 14:58	18°♄37'47	
evening set	7451 Sep 03 08:07	29°♄04'19			7452 Jul 09 00:24	0°♄	
min. Earth dist.	7451 Sep 10 19:44	25°♄43'13	0.55240 AU	evening rise	7452 Jul 09 15:34	1°♄19'24	
inferior conj	7451 Sep 12 05:16	24°♄55'13	-5°12'20		7452 Jul 26 04:31	0°♄	
minimum elong	7451 Sep 11 23:10	25°♄03'58	5°11'30	evening max el	7452 Jul 29 06:03	3°♄22'35	21°16'10
morning rise	7451 Sep 20 16:17	21°♄06'09		desc. node	7452 Aug 07 18:10	9°♄04'48	
direct	7451 Sep 23 18:29	20°♄43'59		retrograde	7452 Aug 10 06:58	9°♄20'23	
morning max el	7451 Oct 04 22:49	25°♄57'19	20°52'16	evening set	7452 Aug 12 15:55	9°♄07'19	
	7451 Oct 08 16:33	0°♄		inferior conj	7452 Aug 21 22:30	5°♄09'23	-4°00'20
asc. node	7451 Oct 13 17:23	7°♄07'13		minimum elong	7452 Aug 21 13:07	5°♄22'34	3°57'44
morning set	7451 Oct 24 08:16	27°♄02'09		min. Earth dist.	7452 Aug 22 04:56	5°♄00'21	0.54707 AU
	7451 Oct 25 18:33	0°♄		morning rise	7452 Aug 30 11:03	1°♄15'59	
				direct	7452 Sep 03 02:54	0°♄47'08	
superior conj	7451 Oct 31 18:01	12°♄25'43	1°39'30	morning max el	7452 Sep 15 19:15	6°♄48'03	22°29'14
minimum elong	7451 Oct 31 19:10	12°♄31'39	1°39'31	asc. node	7452 Sep 29 14:23	25°♄44'50	
max. Earth dist.	7451 Nov 05 13:56	22°♄07'42	1.35764 AU		7452 Oct 01 21:45	0°♄	
evening rise	7451 Nov 09 13:59	29°♄46'35		morning set	7452 Oct 07 18:53	11°♄51'15	
	7451 Nov 09 16:51	0°♄					
desc. node	7451 Nov 17 20:08	14°♄21'52		superior conj	7452 Oct 14 20:40	26°♄56'58	1°41'53
	7451 Nov 27 20:02	0°♄		minimum elong	7452 Oct 14 20:29	26°♄56'00	1°41'55
evening max el	7451 Dec 15 02:18	21°♄27'31	26°19'14		7452 Oct 16 07:19	0°♄	
retrograde	7451 Dec 27 21:13	28°♄40'37		max. Earth dist.	7452 Oct 18 05:51	4°♄02'24	1.34106 AU
evening set	7452 Jan 03 04:35	26°♄07'15		evening rise	7452 Oct 22 20:11	13°♄16'44	
min. Earth dist.	7452 Jan 07 08:43	21°♄46'23	0.66592 AU		7452 Oct 31 23:34	0°♄	
inferior conj	7452 Jan 09 00:20	19°♄45'35	-0°13'45	desc. node	7452 Nov 03 17:11	4°♄34'25	
minimum elong	7452 Jan 09 00:42	19°♄44'27	0°13'30		7452 Nov 21 20:17	0°♄	
transit middle	7452 Jan 09 00:42	19°♄44'27	0°13'30	evening max el	7452 Nov 26 15:12	5°♄02'45	27°06'11
transit begin	7452 Jan 08 23:08	19°♄49'14		retrograde	7452 Dec 09 23:20	12°♄22'35	
transit end	7452 Jan 09 02:16	19°♄39'40		evening set	7452 Dec 16 17:32	9°♄45'11	
asc. node	7452 Jan 09 16:40	18°♄56'01		min. Earth dist.	7452 Dec 20 15:43	5°♄58'39	0.65276 AU
morning rise	7452 Jan 14 21:33	13°♄59'45		inferior conj	7452 Dec 22 19:03	3°♄34'30	-1°16'16
direct	7452 Jan 17 22:50	13°♄07'02		minimum elong	7452 Dec 22 21:18	3°♄28'10	1°15'14
morning max el	7452 Jan 24 14:05	16°♄42'58	18°36'17		7452 Dec 26 05:48	30°♄	
	7452 Feb 03 15:05	0°♄		asc. node	7452 Dec 26 13:42	29°♄42'47	
desc. node	7452 Feb 13 19:26	15°♄54'04		morning rise	7452 Dec 29 02:20	28°♄01'03	
morning set	7452 Feb 14 10:09	16°♄52'10		direct	7452 Dec 31 18:43	27°♄22'29	
	7452 Feb 22 18:20	0°♄			7453 Jan 06 09:04	0°♄	
				morning max el	7453 Jan 07 05:26	0°♄47'49	18°04'07
superior conj	7452 Mar 01 13:55	12°♄14'46	-1°42'24	morning set	7453 Jan 25 08:53	27°♄46'05	
minimum elong	7452 Mar 01 04:26	11°♄37'35	1°41'32		7453 Jan 26 17:30	0°♄	
max. Earth dist.	7452 Mar 01 06:14	11°♄44'39	1.45426 AU	desc. node	7453 Jan 30 16:26	6°♄27'33	
	7452 Mar 12 20:34	0°♄					
evening rise	7452 Mar 17 04:49	6°♄54'21		superior conj	7453 Feb 08 21:12	21°♄12'06	-1°02'32
greatest brilliancy	7452 Mar 25 13:26	20°♄12'50	-0.8m	minimum elong	7453 Feb 08 13:52	20°♄43'04	1°01'32
	7452 Mar 31 22:49	0°♄		max. Earth dist.	7453 Feb 12 01:36	26°♄13'07	1.45312 AU
asc. node	7452 Apr 06 15:46	7°♄31'12			7453 Feb 14 11:32	0°♄	
evening max el	7452 Apr 07 20:52	8°♄49'06	18°49'46	evening rise	7453 Feb 25 02:11	16°♄29'07	
retrograde	7452 Apr 14 13:44	12°♄32'30			7453 Mar 05 20:54	0°♄	

greatest brilliancy	7453 Mar 10 08:55	6° $\Upsilon$ 47'55	-0.7m	asc. node	7454 Mar 11 09:54	10° $\Upsilon$ 29'51	
evening max el	7453 Mar 22 03:37	22° $\Upsilon$ 24'51	19°37'23	retrograde	7454 Mar 13 09:42	10° $\Upsilon$ 50'23	
asc. node	7453 Mar 24 12:49	24° $\Upsilon$ 33'49		evening set	7454 Mar 17 10:08	9° $\Upsilon$ 18'01	
retrograde	7453 Mar 29 11:15	26° $\Upsilon$ 36'42		inferior conj	7454 Mar 22 17:53	3° $\Upsilon$ 09'13	3°01'17
evening set	7453 Apr 02 02:34	25° $\Upsilon$ 19'18		minimum elong	7454 Mar 22 15:57	3° $\Upsilon$ 15'51	3°00'55
inferior conj	7453 Apr 07 12:19	19° $\Upsilon$ 23'13	3°19'25	min. Earth dist.	7454 Mar 23 07:52	2° $\Upsilon$ 21'10	0.67852 AU
minimum elong	7453 Apr 07 11:10	19° $\Upsilon$ 27'04	3°19'16		7454 Mar 25 02:16	30° $\Re$ $\text{H}$	
min. Earth dist.	7453 Apr 08 16:06	17° $\Upsilon$ 51'14	0.66984 AU	morning rise	7454 Mar 27 21:33	26° $\text{H}$ 54'15	
morning rise	7453 Apr 12 19:27	13° $\Upsilon$ 06'09		direct	7454 Apr 02 09:55	24° $\text{H}$ 27'02	
direct	7453 Apr 18 20:50	10° $\Upsilon$ 24'11			7454 Apr 12 09:19	0° $\Upsilon$	
desc. node	7453 Apr 28 15:56	15° $\Upsilon$ 24'09		morning max el	7454 Apr 13 11:11	1° $\Upsilon$ 03'39	24°06'40
morning max el	7453 May 01 02:23	17° $\Upsilon$ 43'43	25°33'11	desc. node	7454 Apr 15 12:55	3° $\Upsilon$ 15'19	
	7453 May 11 09:03	0° $\text{B}$			7454 May 05 08:06	0° $\text{B}$	
	7453 May 31 01:41	0° $\text{II}$		morning set	7454 May 19 02:30	22° $\text{B}$ 20'15	
morning set	7453 Jun 06 05:46	10° $\text{II}$ 50'45		max. Earth dist.	7454 May 22 19:25	28° $\text{B}$ 50'53	1.38139 AU
max. Earth dist.	7453 Jun 09 22:50	17° $\text{II}$ 43'35	1.36023 AU		7454 May 23 10:50	0° $\text{II}$	
superior conj	7453 Jun 15 20:21	29° $\text{II}$ 12'26	-0°45'31	superior conj	7454 May 29 23:55	12° $\text{II}$ 08'05	-1°16'31
minimum elong	7453 Jun 15 23:01	29° $\text{II}$ 25'50	0°45'06	minimum elong	7454 May 30 04:30	12° $\text{II}$ 29'53	1°15'55
	7453 Jun 16 05:51	0° $\text{S}$		asc. node	7454 Jun 07 09:02	28° $\text{II}$ 30'07	
asc. node	7453 Jun 20 12:00	8° $\text{S}$ 38'36		evening rise	7454 Jun 07 21:20	29° $\text{II}$ 30'45	
evening rise	7453 Jun 23 21:42	15° $\text{S}$ 36'33			7454 Jun 08 03:17	0° $\text{S}$	
	7453 Jul 01 07:51	0° $\Omega$		evening max el	7454 Jun 24 08:31	26° $\text{S}$ 15'48	19°00'56
evening max el	7453 Jul 11 12:59	14° $\Omega$ 27'12	19°58'28		7454 Jun 29 21:41	0° $\Omega$	
retrograde	7453 Jul 21 21:32	19° $\Omega$ 32'59		retrograde	7454 Jul 03 01:26	0° $\Omega$ 33'22	
evening set	7453 Jul 23 18:42	19° $\Omega$ 23'37		evening set	7454 Jul 05 00:31	0° $\Omega$ 21'10	
desc. node	7453 Jul 25 15:12	18° $\Omega$ 57'14			7454 Jul 06 08:13	30° $\Re$ $\text{S}$	
inferior conj	7453 Aug 01 18:59	15° $\Omega$ 23'46	-2°09'51	desc. node	7454 Jul 12 12:14	26° $\text{S}$ 39'38	
minimum elong	7453 Aug 01 13:00	15° $\Omega$ 32'49	2°07'43	inferior conj	7454 Jul 13 07:24	26° $\text{S}$ 06'36	-0°14'28
min. Earth dist.	7453 Aug 03 16:26	14° $\Omega$ 15'10	0.55143 AU	minimum elong	7454 Jul 13 06:47	26° $\text{S}$ 07'40	0°14'19
morning rise	7453 Aug 10 05:33	11° $\Omega$ 05'40		transit middle	7454 Jul 13 06:47	26° $\text{S}$ 07'40	0°14'19
direct	7453 Aug 14 15:24	10° $\Omega$ 23'06		transit begin	7454 Jul 13 05:05	26° $\text{S}$ 10'38	
morning max el	7453 Aug 28 08:49	17° $\Omega$ 08'49	24°14'35	transit end	7454 Jul 13 08:30	26° $\text{S}$ 04'41	
	7453 Sep 07 19:28	0° $\text{P}$		min. Earth dist.	7454 Jul 16 07:08	24° $\text{S}$ 02'48	0.56463 AU
asc. node	7453 Sep 16 11:25	14° $\text{P}$ 53'56		morning rise	7454 Jul 21 09:51	21° $\text{S}$ 12'45	
morning set	7453 Sep 22 06:37	26° $\text{P}$ 41'36		direct	7454 Jul 26 16:36	20° $\text{S}$ 07'03	
	7453 Sep 23 19:39	0° $\text{A}$		morning max el	7454 Aug 09 22:17	27° $\text{S}$ 26'42	25°53'00
superior conj	7453 Sep 29 04:30	11° $\text{A}$ 41'36	1°37'51		7454 Aug 12 10:08	0° $\Omega$	
minimum elong	7453 Sep 29 03:14	11° $\text{A}$ 34'43	1°37'48	asc. node	7454 Sep 01 02:38	0° $\text{P}$	
max. Earth dist.	7453 Oct 01 06:11	16° $\text{A}$ 10'22	1.32871 AU	morning set	7454 Sep 03 08:26	4° $\text{P}$ 26'11	
evening rise	7453 Oct 06 13:40	27° $\text{A}$ 17'23			7454 Sep 06 17:50	11° $\text{P}$ 28'34	
	7453 Oct 07 22:05	0° $\text{M}$		superior conj	7454 Sep 13 15:18	26° $\text{P}$ 32'38	1°28'10
desc. node	7453 Oct 21 14:14	24° $\text{M}$ 23'53		minimum elong	7454 Sep 13 13:20	26° $\text{P}$ 21'43	1°27'56
	7453 Oct 25 06:13	0° $\text{J}$		max. Earth dist.	7454 Sep 14 13:14	28° $\text{P}$ 33'32	1.32082 AU
evening max el	7453 Nov 09 02:58	18° $\text{J}$ 17'40	27°27'55		7454 Sep 15 04:57	0° $\text{A}$	
retrograde	7453 Nov 22 19:06	25° $\text{J}$ 36'01		evening rise	7454 Sep 20 15:15	11° $\text{A}$ 39'45	
evening set	7453 Nov 29 20:24	23° $\text{J}$ 02'46			7454 Sep 30 02:38	0° $\text{M}$	
min. Earth dist.	7453 Dec 03 14:00	19° $\text{J}$ 48'02	0.63630 AU	desc. node	7454 Oct 08 11:18	13° $\text{M}$ 40'56	
inferior conj	7453 Dec 06 04:41	17° $\text{J}$ 08'58	-2°23'16		7454 Oct 21 10:50	0° $\text{J}$	
minimum elong	7453 Dec 06 09:07	16° $\text{J}$ 57'43	2°21'27	evening max el	7454 Oct 22 11:18	0° $\text{J}$ 59'15	27°18'34
morning rise	7453 Dec 12 23:34	11° $\text{J}$ 50'46		retrograde	7454 Nov 05 07:24	8° $\text{J}$ 11'56	
asc. node	7453 Dec 13 10:46	11° $\text{J}$ 40'56		evening set	7454 Nov 12 09:49	5° $\text{J}$ 52'59	
direct	7453 Dec 15 09:26	11° $\text{J}$ 22'23		min. Earth dist.	7454 Nov 16 01:54	3° $\text{J}$ 03'56	0.61713 AU
morning max el	7453 Dec 21 22:42	14° $\text{J}$ 46'30	17°49'11	inferior conj	7454 Nov 19 02:11	0° $\text{J}$ 21'22	-3°31'12
	7454 Jan 01 14:39	0° $\text{Z}$		minimum elong	7454 Nov 19 08:33	0° $\text{J}$ 06'59	3°29'01
morning set	7454 Jan 07 10:34	9° $\text{Z}$ 58'37			7454 Nov 19 11:40	30° $\Re$ $\text{M}$	
desc. node	7454 Jan 17 13:26	27° $\text{Z}$ 08'37		morning rise	7454 Nov 26 09:24	25° $\text{M}$ 21'49	
	7454 Jan 19 06:58	0° $\approx$		direct	7454 Nov 28 15:38	24° $\text{M}$ 59'58	
superior conj	7454 Jan 19 22:58	1° $\approx$ 05'40	-0°17'14	asc. node	7454 Nov 30 07:49	25° $\text{M}$ 12'22	
minimum elong	7454 Jan 19 21:05	0° $\approx$ 57'58	0°16'52	morning max el	7454 Dec 05 14:42	28° $\text{M}$ 31'12	17°52'23
max. Earth dist.	7454 Jan 25 19:50	10° $\approx$ 34'16	1.44484 AU		7454 Dec 07 00:02	0° $\text{J}$	
evening rise	7454 Feb 04 13:16	25° $\approx$ 46'12		morning set	7454 Dec 21 08:42	23° $\text{J}$ 09'53	
	7454 Feb 07 07:37	0° $\text{H}$			7454 Dec 25 03:37	0° $\text{Z}$	
	7454 Feb 28 00:59	0° $\Upsilon$		superior conj	7455 Jan 01 02:34	12° $\text{Z}$ 14'28	0°24'11
evening max el	7454 Mar 05 05:05	6° $\Upsilon$ 02'07	20°39'28	minimum elong	7455 Jan 01 04:41	12° $\text{Z}$ 23'31	0°23'57

desc. node	7455 Jan 04 10:28	17° $\text{S}$ 54'04		evening rise	7455 Dec 26 15:22	15° $\text{S}$ 51'12	
max. Earth dist.	7455 Jan 08 10:54	24° $\text{S}$ 33'39	1.43033 AU		7456 Jan 04 15:06	0° $\approx$	
	7455 Jan 11 19:37	0° $\approx$			7456 Jan 26 13:38	0° $\text{H}$	
evening rise	7455 Jan 15 05:41	5° $\approx$ 24'46		evening max el	7456 Jan 29 17:04	3° $\text{H}$ 22'38	23°11'35
	7455 Jan 31 15:37	0° $\text{H}$		retrograde	7456 Feb 09 02:17	9° $\text{H}$ 31'32	
evening max el	7455 Feb 16 01:14	19° $\text{H}$ 41'21	21°52'25	asc. node	7456 Feb 13 04:00	8° $\text{H}$ 08'49	
retrograde	7455 Feb 25 07:11	25° $\text{H}$ 10'13		evening set	7456 Feb 14 00:53	7° $\text{H}$ 28'43	
asc. node	7455 Feb 26 06:57	25° $\text{H}$ 05'09		inferior conj	7456 Feb 19 10:22	1° $\text{H}$ 03'03	1°56'35
evening set	7455 Mar 01 18:06	23° $\text{H}$ 22'31		minimum elong	7456 Feb 19 08:11	1° $\text{H}$ 10'33	1°55'54
inferior conj	7455 Mar 07 01:53	17° $\text{H}$ 03'38	2°33'18	min. Earth dist.	7456 Feb 18 23:56	1° $\text{H}$ 39'00	0.68307 AU
minimum elong	7455 Mar 06 23:37	17° $\text{H}$ 11'33	2°32'43		7456 Feb 20 04:44	30° $\text{R}$ $\approx$	
min. Earth dist.	7455 Mar 07 03:14	16° $\text{H}$ 58'56	0.68289 AU	morning rise	7456 Feb 24 15:26	24° $\approx$ 56'30	
morning rise	7455 Mar 12 04:57	10° $\text{H}$ 52'12		direct	7456 Feb 28 23:32	23° $\approx$ 12'19	
direct	7455 Mar 17 03:09	8° $\text{H}$ 45'24		morning max el	7456 Mar 08 12:50	28° $\approx$ 08'37	21°12'57
morning max el	7455 Mar 26 21:28	14° $\text{H}$ 30'54	22°37'03		7456 Mar 10 07:10	0° $\text{H}$	
desc. node	7455 Apr 02 09:56	22° $\text{H}$ 00'32		desc. node	7456 Mar 19 06:55	11° $\text{H}$ 24'38	
	7455 Apr 08 10:09	0° $\text{Y}$			7456 Apr 01 00:42	0° $\text{Y}$	
	7455 Apr 28 07:19	0° $\text{B}$		morning set	7456 Apr 08 13:08	11° $\text{Y}$ 36'35	
morning set	7455 Apr 29 21:34	2° $\text{B}$ 36'00		max. Earth dist.	7456 Apr 15 18:45	23° $\text{Y}$ 13'09	1.42455 AU
max. Earth dist.	7455 May 04 16:11	10° $\text{B}$ 34'53	1.40381 AU		7456 Apr 19 20:53	0° $\text{B}$	
superior conj	7455 May 12 11:12	24° $\text{B}$ 15'39	-1°44'24	superior conj	7456 Apr 23 01:24	5° $\text{B}$ 24'30	-2°04'34
minimum elong	7455 May 12 16:48	24° $\text{B}$ 41'03	1°43'53	minimum elong	7456 Apr 23 05:41	5° $\text{B}$ 42'51	2°04'24
	7455 May 15 14:28	0° $\text{II}$		evening rise	7456 May 04 11:43	25° $\text{B}$ 37'05	
evening rise	7455 May 22 11:20	12° $\text{II}$ 54'01			7456 May 06 22:03	0° $\text{II}$	
asc. node	7455 May 25 06:04	18° $\text{II}$ 07'54		asc. node	7456 May 11 03:05	7° $\text{II}$ 26'49	
	7455 May 31 23:32	0° $\text{E}$		evening max el	7456 May 21 00:20	21° $\text{II}$ 38'09	18°07'02
evening max el	7455 Jun 07 13:32	8° $\text{E}$ 42'24	18°24'00	retrograde	7456 May 27 17:19	25° $\text{II}$ 03'15	
retrograde	7455 Jun 15 00:36	12° $\text{E}$ 25'48		evening set	7456 May 30 06:24	24° $\text{II}$ 33'58	
evening set	7455 Jun 17 06:22	12° $\text{E}$ 06'34		inferior conj	7456 Jun 05 23:48	19° $\text{II}$ 38'55	2°26'03
inferior conj	7455 Jun 24 17:18	7° $\text{E}$ 31'48	1°20'13	minimum elong	7456 Jun 06 02:55	19° $\text{II}$ 31'32	2°25'09
minimum elong	7455 Jun 24 19:52	7° $\text{E}$ 26'33	1°19'16	min. Earth dist.	7456 Jun 09 05:51	16° $\text{II}$ 35'36	0.60613 AU
min. Earth dist.	7455 Jun 28 02:50	4° $\text{E}$ 47'04	0.58398 AU	morning rise	7456 Jun 12 20:56	13° $\text{II}$ 45'10	
desc. node	7455 Jun 29 09:17	3° $\text{E}$ 50'27		desc. node	7456 Jun 15 06:18	12° $\text{II}$ 29'00	
morning rise	7455 Jul 02 06:05	2° $\text{E}$ 03'20		direct	7456 Jun 19 11:05	11° $\text{II}$ 37'02	
direct	7455 Jul 08 07:38	0° $\text{E}$ 27'00		morning max el	7456 Jul 03 18:37	19° $\text{II}$ 34'34	27°49'02
morning max el	7455 Jul 22 16:59	8° $\text{E}$ 09'49	27°08'16		7456 Jul 12 15:29	0° $\text{E}$	
	7455 Aug 08 05:04	0° $\text{O}$			7456 Jul 31 01:19	0° $\text{O}$	
asc. node	7455 Aug 21 05:26	24° $\text{O}$ 14'37		morning set	7456 Aug 05 07:55	10° $\text{O}$ 31'15	
morning set	7455 Aug 22 02:51	26° $\text{O}$ 06'51		asc. node	7456 Aug 07 02:25	14° $\text{O}$ 13'52	
	7455 Aug 23 22:35	0° $\text{P}$		max. Earth dist.	7456 Aug 11 09:29	23° $\text{O}$ 30'51	1.31839 AU
superior conj	7455 Aug 29 03:07	11° $\text{P}$ 23'33	1°13'20	superior conj	7456 Aug 12 14:11	26° $\text{O}$ 08'49	0°53'48
minimum elong	7455 Aug 29 00:51	11° $\text{P}$ 11'01	1°12'57	minimum elong	7456 Aug 12 12:07	25° $\text{O}$ 57'27	0°53'22
max. Earth dist.	7455 Aug 28 23:37	11° $\text{P}$ 04'13	1.31739 AU		7456 Aug 14 08:02	0° $\text{P}$	
evening rise	7455 Sep 04 22:17	26° $\text{P}$ 15'36		evening rise	7456 Aug 19 08:36	10° $\text{P}$ 58'25	
	7455 Sep 06 17:05	0° $\text{A}$			7456 Aug 28 23:34	0° $\text{A}$	
	7455 Sep 23 18:32	0° $\text{M}$		desc. node	7456 Sep 11 05:24	19° $\text{A}$ 38'48	
desc. node	7455 Sep 25 08:21	2° $\text{M}$ 12'00		evening max el	7456 Sep 15 07:02	23° $\text{A}$ 58'16	25°21'10
evening max el	7455 Oct 04 13:14	12° $\text{M}$ 54'11	26°35'17		7456 Sep 24 02:31	0° $\text{M}$	
retrograde	7455 Oct 18 11:06	20° $\text{M}$ 01'20		retrograde	7456 Sep 29 04:52	1° $\text{M}$ 00'28	
evening set	7455 Oct 25 05:17	18° $\text{M}$ 07'29			7456 Oct 04 07:24	30° $\text{R}$ $\text{A}$	
min. Earth dist.	7455 Oct 29 02:51	15° $\text{M}$ 32'20	0.59644 AU	evening set	7456 Oct 05 02:00	29° $\text{A}$ 40'50	
inferior conj	7455 Nov 01 07:57	13° $\text{M}$ 01'05	-4°33'31	min. Earth dist.	7456 Oct 09 18:47	27° $\text{A}$ 01'45	0.57617 AU
minimum elong	7455 Nov 01 14:55	12° $\text{M}$ 47'21	4°31'48	inferior conj	7456 Oct 12 18:44	24° $\text{A}$ 59'07	-5°18'33
morning rise	7455 Nov 09 02:49	8° $\text{M}$ 23'31		minimum elong	7456 Oct 12 23:11	24° $\text{A}$ 51'29	5°18'01
direct	7455 Nov 11 09:02	8° $\text{M}$ 05'03		morning rise	7456 Oct 20 22:41	20° $\text{A}$ 44'41	
asc. node	7455 Nov 17 04:51	10° $\text{M}$ 15'07		direct	7456 Oct 23 09:08	20° $\text{A}$ 26'55	
morning max el	7455 Nov 19 02:00	11° $\text{M}$ 52'03	18°15'00	morning max el	7456 Nov 01 05:03	24° $\text{A}$ 39'33	18°58'38
	7455 Dec 01 03:26	0° $\text{X}$		asc. node	7456 Nov 03 01:51	26° $\text{A}$ 37'12	
morning set	7455 Dec 04 21:11	7° $\text{X}$ 00'42			7456 Nov 05 17:42	0° $\text{M}$	
superior conj	7455 Dec 14 06:07	24° $\text{X}$ 31'41	0°57'06	morning set	7456 Nov 17 19:33	21° $\text{M}$ 18'23	
minimum elong	7455 Dec 14 09:38	24° $\text{X}$ 47'38	0°56'43		7456 Nov 22 05:13	0° $\text{X}$	
	7455 Dec 17 07:22	0° $\text{S}$		superior conj	7456 Nov 26 04:37	7° $\text{X}$ 43'13	1°20'28
max. Earth dist.	7455 Dec 21 21:03	7° $\text{S}$ 55'25	1.41119 AU	minimum elong	7456 Nov 26 07:47	7° $\text{X}$ 58'17	1°20'13
desc. node	7455 Dec 22 07:29	8° $\text{S}$ 39'38		max. Earth dist.	7456 Dec 03 02:49	20° $\text{X}$ 32'33	1.38981 AU

evening rise	7456 Dec 06 23:09	27° $\text{♊}$ 16'46		evening rise	7457 Nov 19 03:55	9° $\text{♊}$ 38'41	
desc. node	7456 Dec 08 04:29	29° $\text{♊}$ 21'50		desc. node	7457 Nov 25 01:30	19° $\text{♊}$ 56'48	
	7456 Dec 08 13:31	0° $\text{♊}$			7457 Dec 01 06:14	0° $\text{♊}$	
	7456 Dec 28 04:11	0° $\text{♊}$			7457 Dec 23 21:51	0° $\text{♊}$	
evening max el	7457 Jan 11 06:28	17° $\text{♊}$ 06'51	24°30'58	evening max el	7457 Dec 24 19:26	0° $\text{♊}$ 53'39	25°43'36
retrograde	7457 Jan 22 17:45	23° $\text{♊}$ 49'30		retrograde	7458 Jan 06 04:39	7° $\text{♊}$ 59'05	
evening set	7457 Jan 28 04:56	21° $\text{♊}$ 32'46		evening set	7458 Jan 12 04:40	5° $\text{♊}$ 30'55	
asc. node	7457 Jan 30 01:04	19° $\text{♊}$ 44'11		min. Earth dist.	7458 Jan 16 12:32	0° $\text{♊}$ 49'45	0.67179 AU
min. Earth dist.	7457 Feb 01 19:47	16° $\text{♊}$ 17'07	0.67929 AU	asc. node	7458 Jan 16 22:07	0° $\text{♊}$ 19'32	
inferior conj	7457 Feb 02 17:30	15° $\text{♊}$ 04'33	1°11'48		7458 Jan 17 04:16	30° $\text{♊}$	
minimum elong	7457 Feb 02 15:55	15° $\text{♊}$ 09'53	1°11'15	inferior conj	7458 Jan 17 21:30	29° $\text{♊}$ 05'10	0°19'31
morning rise	7457 Feb 08 03:02	9° $\text{♊}$ 04'19		minimum elong	7458 Jan 17 21:00	29° $\text{♊}$ 06'46	0°19'24
direct	7457 Feb 11 21:56	7° $\text{♊}$ 42'12		morning rise	7458 Jan 23 13:48	23° $\text{♊}$ 13'12	
morning max el	7457 Feb 19 11:41	11° $\text{♊}$ 58'11	20°00'14	direct	7458 Jan 26 21:00	22° $\text{♊}$ 10'40	
	7457 Mar 05 06:59	0° $\text{♊}$		morning max el	7458 Feb 02 18:19	25° $\text{♊}$ 58'01	19°02'15
desc. node	7457 Mar 06 03:53	1° $\text{♊}$ 16'55			7458 Feb 06 07:40	0° $\text{♊}$	
morning set	7457 Mar 18 11:03	19° $\text{♊}$ 53'41		greatest brilliancy	7458 Feb 16 17:58	14° $\text{♊}$ 54'35	-0.8m
	7457 Mar 24 22:54	0° $\text{♊}$		desc. node	7458 Feb 21 00:52	21° $\text{♊}$ 29'50	
max. Earth dist.	7457 Mar 29 04:15	6° $\text{♊}$ 41'01	1.44108 AU	morning set	7458 Feb 25 15:00	28° $\text{♊}$ 36'51	
					7458 Feb 26 12:24	0° $\text{♊}$	
superior conj	7457 Apr 03 14:53	15° $\text{♊}$ 27'43	-2°11'07	max. Earth dist.	7458 Mar 11 19:47	20° $\text{♊}$ 46'44	1.45150 AU
minimum elong	7457 Apr 03 14:05	15° $\text{♊}$ 24'27	2°11'08				
	7457 Apr 12 08:34	0° $\text{♊}$		superior conj	7458 Mar 14 05:38	24° $\text{♊}$ 34'30	-1°58'40
evening rise	7457 Apr 16 17:49	7° $\text{♊}$ 29'18		minimum elong	7458 Mar 13 22:07	24° $\text{♊}$ 04'51	1°58'12
asc. node	7457 Apr 28 00:07	26° $\text{♊}$ 19'56			7458 Mar 17 15:49	0° $\text{♊}$	
	7457 Apr 30 12:05	0° $\text{♊}$		evening rise	7458 Mar 29 01:35	18° $\text{♊}$ 23'59	
evening max el	7457 May 04 13:27	4° $\text{♊}$ 53'44	18°09'15		7458 Apr 05 04:01	0° $\text{♊}$	
retrograde	7457 May 10 23:06	8° $\text{♊}$ 15'20		asc. node	7458 Apr 14 21:11	14° $\text{♊}$ 39'15	
evening set	7457 May 13 19:15	7° $\text{♊}$ 33'54		evening max el	7458 Apr 18 01:59	18° $\text{♊}$ 22'06	18°29'56
inferior conj	7457 May 19 23:07	2° $\text{♊}$ 19'54	3°05'20	retrograde	7458 Apr 24 13:42	21° $\text{♊}$ 53'42	
minimum elong	7457 May 20 01:18	2° $\text{♊}$ 14'02	3°04'53	evening set	7458 Apr 27 16:56	20° $\text{♊}$ 58'46	
	7457 May 22 03:09	30° $\text{♊}$		inferior conj	7458 May 03 11:10	15° $\text{♊}$ 27'10	3°23'16
min. Earth dist.	7457 May 22 17:44	29° $\text{♊}$ 21'57	0.62807 AU	minimum elong	7458 May 03 11:57	15° $\text{♊}$ 24'51	3°23'09
morning rise	7457 May 26 05:47	26° $\text{♊}$ 11'33		min. Earth dist.	7458 May 05 14:50	12° $\text{♊}$ 54'06	0.64747 AU
direct	7457 Jun 02 00:43	23° $\text{♊}$ 38'24		morning rise	7458 May 09 06:09	9° $\text{♊}$ 12'08	
desc. node	7457 Jun 02 03:19	23° $\text{♊}$ 38'26		direct	7458 May 15 22:27	6° $\text{♊}$ 25'57	
	7457 Jun 14 07:29	0° $\text{♊}$		desc. node	7458 May 20 00:20	7° $\text{♊}$ 18'49	
morning max el	7457 Jun 16 01:33	1° $\text{♊}$ 41'11	27°51'31	morning max el	7458 May 29 11:18	14° $\text{♊}$ 22'21	27°18'36
	7457 Jul 06 21:36	0° $\text{♊}$			7458 Jun 11 03:44	0° $\text{♊}$	
morning set	7457 Jul 20 06:50	24° $\text{♊}$ 34'26			7458 Jun 29 13:48	0° $\text{♊}$	
	7457 Jul 22 22:18	0° $\text{♊}$		morning set	7458 Jul 03 20:59	8° $\text{♊}$ 09'18	
asc. node	7457 Jul 24 23:24	4° $\text{♊}$ 18'33		max. Earth dist.	7458 Jul 08 11:46	17° $\text{♊}$ 24'12	1.33444 AU
max. Earth dist.	7457 Jul 25 14:43	5° $\text{♊}$ 40'17	1.32399 AU	asc. node	7458 Jul 11 20:24	24° $\text{♊}$ 24'57	
superior conj	7457 Jul 27 22:40	10° $\text{♊}$ 42'00	0°30'02	superior conj	7458 Jul 12 02:36	24° $\text{♊}$ 57'42	0°02'39
minimum elong	7457 Jul 27 21:18	10° $\text{♊}$ 34'38	0°29'41	minimum elong	7458 Jul 12 02:28	24° $\text{♊}$ 56'59	0°02'32
evening rise	7457 Aug 03 20:14	25° $\text{♊}$ 41'20		behind sun begin	7458 Jul 11 21:00	24° $\text{♊}$ 28'03	
	7457 Aug 05 21:16	0° $\text{♊}$		behind sun end	7458 Jul 12 07:56	25° $\text{♊}$ 25'59	
	7457 Aug 23 18:20	0° $\text{♊}$			7458 Jul 14 11:20	0° $\text{♊}$	
evening max el	7457 Aug 27 19:04	4° $\text{♊}$ 23'00	23°46'53	evening rise	7458 Jul 19 07:21	10° $\text{♊}$ 19'15	
desc. node	7457 Aug 29 02:26	5° $\text{♊}$ 35'34			7458 Jul 29 11:28	0° $\text{♊}$	
retrograde	7457 Sep 10 10:40	11° $\text{♊}$ 13'30		evening max el	7458 Aug 09 08:48	14° $\text{♊}$ 39'11	22°08'32
evening set	7457 Sep 14 22:18	10° $\text{♊}$ 29'23		desc. node	7458 Aug 15 23:30	19° $\text{♊}$ 31'08	
min. Earth dist.	7457 Sep 21 05:25	7° $\text{♊}$ 27'41	0.55925 AU	retrograde	7458 Aug 22 04:09	21° $\text{♊}$ 00'59	
inferior conj	7457 Sep 23 09:13	6° $\text{♊}$ 09'35	-5°29'03	evening set	7458 Aug 25 04:16	20° $\text{♊}$ 40'59	
minimum elong	7457 Sep 23 07:16	6° $\text{♊}$ 12'32	5°28'57	min. Earth dist.	7458 Sep 02 14:14	17° $\text{♊}$ 02'16	0.54901 AU
morning rise	7457 Oct 01 18:27	2° $\text{♊}$ 14'06		inferior conj	7458 Sep 03 07:15	16° $\text{♊}$ 38'22	-4°48'08
direct	7457 Oct 04 13:43	1° $\text{♊}$ 54'21		minimum elong	7458 Sep 02 22:54	16° $\text{♊}$ 50'07	4°46'27
morning max el	7457 Oct 14 20:35	6° $\text{♊}$ 43'31	20°04'35	morning rise	7458 Sep 11 19:05	12° $\text{♊}$ 49'43	
asc. node	7457 Oct 20 22:52	14° $\text{♊}$ 02'49		direct	7458 Sep 15 02:54	12° $\text{♊}$ 25'04	
	7457 Oct 30 02:05	0° $\text{♊}$		morning max el	7458 Sep 26 23:16	17° $\text{♊}$ 58'52	21°31'43
morning set	7457 Nov 02 00:34	5° $\text{♊}$ 53'45			7458 Oct 06 10:13	0° $\text{♊}$	
				asc. node	7458 Oct 07 19:52	2° $\text{♊}$ 17'47	
superior conj	7457 Nov 09 17:08	21° $\text{♊}$ 34'43	1°34'52	morning set	7458 Oct 17 09:43	20° $\text{♊}$ 39'33	
minimum elong	7457 Nov 09 19:05	21° $\text{♊}$ 44'33	1°34'49		7458 Oct 21 20:07	0° $\text{♊}$	
	7457 Nov 13 23:55	0° $\text{♊}$					
max. Earth dist.	7457 Nov 15 08:42	2° $\text{♊}$ 36'25	1.36873 AU	superior conj	7458 Oct 24 15:32	5° $\text{♊}$ 54'05	1°41'21



minimum elong	7458 Oct 24 16:06	5°♄57'03	1°41'23	superior conj	7459 Oct 08 20:42	20°♄32'18	1°40'55
max. Earth dist.	7458 Oct 28 20:14	14°♄29'44	1.35010 AU	minimum elong	7459 Oct 08 20:02	20°♄28'39	1°40'55
evening rise	7458 Nov 02 02:00	22°♄47'03		max. Earth dist.	7459 Oct 11 16:09	26°♄31'10	1.33527 AU
	7458 Nov 05 23:26	0°♄			7459 Oct 13 08:12	0°♄	
desc. node	7458 Nov 11 22:32	10°♄19'22		evening rise	7459 Oct 16 13:29	6°♄31'47	
	7458 Nov 24 23:23	0°♄		desc. node	7459 Oct 29 19:36	0°♄23'38	
evening max el	7458 Dec 07 08:42	14°♄36'39	26°42'02		7459 Oct 29 13:46	0°♄	
retrograde	7458 Dec 20 09:59	21°♄53'19		evening max el	7459 Nov 19 21:29	28°♄05'35	27°18'55
evening set	7458 Dec 26 22:09	19°♄17'47			7459 Nov 22 00:09	0°♄	
min. Earth dist.	7458 Dec 30 23:48	15°♄11'25	0.66072 AU	retrograde	7459 Dec 03 09:13	5°♄24'44	
inferior conj	7459 Jan 01 20:16	13°♄00'08	-0°39'35	evening set	7459 Dec 10 07:10	2°♄48'03	
minimum elong	7459 Jan 01 21:23	12°♄56'50	0°39'01		7459 Dec 13 10:04	30°♄♂	
asc. node	7459 Jan 03 19:11	10°♄45'41		min. Earth dist.	7459 Dec 14 03:14	29°♄15'39	0.64618 AU
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direct	7459 Jan 10 18:48	6°♄32'37		minimum elong	7459 Dec 16 14:38	26°♄35'40	1°42'53
morning max el	7459 Jan 17 07:10	10°♄02'47	18°20'30	asc. node	7459 Dec 21 16:13	21°♄58'56	
	7459 Jan 31 10:41	0°♄		morning rise	7459 Dec 22 23:32	21°♄16'49	
morning set	7459 Feb 05 20:34	8°♄39'59		direct	7459 Dec 25 12:58	20°♄42'55	
desc. node	7459 Feb 07 21:50	11°♄57'14		morning max el	7459 Dec 31 23:42	24°♄06'17	17°55'40
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superior conj	7459 Feb 21 09:53	3°♄19'18	-1°26'53	morning set	7460 Jan 18 07:32	20°♄10'21	
minimum elong	7459 Feb 21 00:30	2°♄42'34	1°25'49		7460 Jan 24 05:12	0°♄	
max. Earth dist.	7459 Feb 22 15:04	5°♄13'40	1.45475 AU	desc. node	7460 Jan 25 18:52	2°♄34'51	
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greatest brilliancy	7459 Mar 20 01:22	15°♄00'26	-0.8m	max. Earth dist.	7460 Feb 05 10:51	19°♄43'24	1.45052 AU
	7459 Mar 30 16:51	0°♄			7460 Feb 12 00:34	0°♄	
evening max el	7459 Apr 01 11:25	1°♄56'24	19°08'07	evening rise	7460 Feb 17 01:30	7°♄46'55	
asc. node	7459 Apr 01 18:16	2°♄13'31		greatest brilliancy	7460 Mar 02 17:31	29°♄56'32	-0.6m
retrograde	7459 Apr 08 09:31	5°♄50'14			7460 Mar 02 18:27	0°♄	
evening set	7459 Apr 11 20:16	4°♄41'02		evening max el	7460 Mar 14 15:59	15°♄33'00	20°02'08
	7459 Apr 16 11:17	30°♄♂		asc. node	7460 Mar 18 15:20	18°♄49'57	
inferior conj	7459 Apr 17 08:16	28°♄53'16	3°24'39	retrograde	7460 Mar 22 07:45	19°♄59'26	
minimum elong	7459 Apr 17 07:44	28°♄55'00	3°24'36	evening set	7460 Mar 26 02:52	18°♄35'29	
min. Earth dist.	7459 Apr 18 20:27	26°♄57'24	0.66299 AU	inferior conj	7460 Mar 31 11:28	12°♄33'29	3°12'59
morning rise	7459 Apr 22 18:49	22°♄36'16		minimum elong	7460 Mar 31 09:56	12°♄38'40	3°12'46
direct	7459 Apr 29 02:46	19°♄49'49		min. Earth dist.	7460 Apr 01 09:08	11°♄20'25	0.67412 AU
desc. node	7459 May 06 21:20	23°♄00'19		morning rise	7460 Apr 05 16:47	6°♄17'12	
morning max el	7459 May 11 21:30	27°♄26'24	26°17'30	direct	7460 Apr 11 12:45	3°♄40'56	
	7459 May 14 07:17	0°♄		desc. node	7460 Apr 22 18:21	10°♄11'55	
	7459 Jun 04 20:02	0°♄		morning max el	7460 Apr 23 06:53	10°♄43'17	24°57'22
morning set	7459 Jun 16 22:53	21°♄06'03			7460 May 08 14:50	0°♄	
max. Earth dist.	7459 Jun 20 22:15	28°♄41'43	1.34961 AU		7460 May 27 12:19	0°♄	
	7459 Jun 21 14:14	0°♄		morning set	7460 May 29 07:53	3°♄11'59	
superior conj	7459 Jun 25 23:34	8°♄49'06	-0°27'30	max. Earth dist.	7460 Jun 01 22:54	9°♄46'16	1.36895 AU
minimum elong	7459 Jun 26 01:08	8°♄57'06	0°27'16	superior conj	7460 Jun 08 10:33	22°♄07'44	-0°58'49
asc. node	7459 Jun 28 17:27	14°♄29'12		minimum elong	7460 Jun 08 14:04	22°♄25'00	0°58'18
evening rise	7459 Jul 03 15:58	24°♄46'14			7460 Jun 12 09:33	0°♄	
	7459 Jul 06 05:22	0°♄		asc. node	7460 Jun 14 14:29	4°♄26'44	
evening max el	7459 Jul 22 08:12	25°♄20'15	20°40'44	evening rise	7460 Jun 16 19:42	8°♄54'56	
	7459 Jul 29 00:20	0°♄			7460 Jun 28 10:32	0°♄	
retrograde	7459 Aug 02 16:16	0°♄56'11		evening max el	7460 Jul 03 20:37	6°♄43'19	19°31'23
desc. node	7459 Aug 02 20:32	0°♄56'06		retrograde	7460 Jul 13 11:39	11°♄27'54	
evening set	7459 Aug 04 18:16	0°♄45'36		evening set	7460 Jul 15 08:29	11°♄17'57	
	7459 Aug 07 14:24	30°♄♂		desc. node	7460 Jul 19 17:36	9°♄46'03	
inferior conj	7459 Aug 14 00:02	26°♄48'40	-3°16'15	inferior conj	7460 Jul 24 02:06	7°♄12'34	-1°19'34
minimum elong	7459 Aug 13 15:27	27°♄00'56	3°13'29	minimum elong	7460 Jul 23 22:30	7°♄18'20	1°18'15
min. Earth dist.	7459 Aug 14 23:56	26°♄14'26	0.54778 AU	min. Earth dist.	7460 Jul 26 12:31	5°♄39'37	0.55605 AU
morning rise	7459 Aug 22 12:24	22°♄47'22		morning rise	7460 Aug 01 10:02	2°♄39'53	
direct	7459 Aug 26 11:37	22°♄13'39		direct	7460 Aug 06 04:22	1°♄48'59	
morning max el	7459 Sep 08 15:50	28°♄33'50	23°13'57	morning max el	7460 Aug 20 04:42	8°♄50'20	24°58'29
	7459 Sep 10 02:57	0°♄			7460 Sep 04 21:28	0°♄	
asc. node	7459 Sep 24 16:53	21°♄10'24		asc. node	7460 Sep 10 13:54	10°♄30'25	
	7459 Sep 29 05:31	0°♄		morning set	7460 Sep 15 08:46	20°♄20'19	
morning set	7459 Oct 01 21:03	5°♄30'29			7460 Sep 19 19:39	0°♄	

































































































































superior conj	7460 Sep 22 06:03	5° $\Omega$ 20'35	1°34'25	superior conj	7461 Sep 06 17:30	20° $\Pi$ 12'31	1°22'28
minimum elong	7460 Sep 22 04:26	5° $\Omega$ 11'44	1°34'17	minimum elong	7461 Sep 06 15:20	20° $\Pi$ 00'35	1°22'11
max. Earth dist.	7460 Sep 23 19:43	8° $\Omega$ 46'24	1.32477 AU	max. Earth dist.	7461 Sep 07 04:25	21° $\Pi$ 13'02	1.31878 AU
evening rise	7460 Sep 29 10:43	20° $\Omega$ 42'29			7461 Sep 11 04:32	0° $\Omega$	
	7460 Oct 04 03:05	0° $\Pi$		evening rise	7461 Sep 13 14:53	5° $\Omega$ 11'18	
desc. node	7460 Oct 15 16:39	20° $\Pi$ 00'48			7461 Sep 26 18:25	0° $\Pi$	
	7460 Oct 22 15:14	0° $\mathcal{A}$		desc. node	7461 Oct 02 13:41	9° $\Pi$ 00'05	
evening max el	7460 Nov 01 07:53	11° $\mathcal{A}$ 07'01	27°27'53	evening max el	7461 Oct 14 13:34	23° $\Pi$ 29'04	27°04'13
retrograde	7460 Nov 15 01:51	18° $\mathcal{A}$ 23'28			7461 Oct 24 11:09	0° $\mathcal{A}$	
evening set	7460 Nov 22 04:45	15° $\mathcal{A}$ 54'36		retrograde	7461 Oct 28 10:58	0° $\mathcal{A}$ 40'10	
min. Earth dist.	7460 Nov 25 21:00	12° $\mathcal{A}$ 52'13	0.62844 AU		7461 Nov 01 08:13	30° $\mathcal{R}\Pi$	
inferior conj	7460 Nov 28 16:17	10° $\mathcal{A}$ 09'49	-2°52'16	evening set	7461 Nov 04 11:06	28° $\Pi$ 30'24	
minimum elong	7460 Nov 28 21:37	9° $\mathcal{A}$ 56'55	2°50'12	min. Earth dist.	7461 Nov 08 04:12	25° $\Pi$ 49'03	0.60837 AU
morning rise	7460 Dec 05 16:26	4° $\mathcal{A}$ 59'29		inferior conj	7461 Nov 11 07:27	23° $\Pi$ 09'00	-3°58'56
asc. node	7460 Dec 07 13:15	4° $\mathcal{A}$ 35'20		minimum elong	7461 Nov 11 14:20	22° $\Pi$ 54'18	3°56'50
direct	7460 Dec 08 00:23	4° $\mathcal{A}$ 34'20		morning rise	7461 Nov 18 19:51	18° $\Pi$ 18'41	
morning max el	7460 Dec 14 16:51	8° $\mathcal{A}$ 00'12	17°48'21	direct	7461 Nov 21 01:25	17° $\Pi$ 58'48	
	7460 Dec 29 04:01	0° $\mathcal{B}$		asc. node	7461 Nov 24 10:18	18° $\Pi$ 46'10	
morning set	7460 Dec 30 18:40	2° $\mathcal{B}$ 49'59		morning max el	7461 Nov 28 07:17	21° $\Pi$ 35'52	17°59'33
					7461 Dec 04 17:11	0° $\mathcal{A}$	
superior conj	7461 Jan 11 11:56	23° $\mathcal{B}$ 01'56	0°01'12	morning set	7461 Dec 13 23:27	16° $\mathcal{A}$ 19'16	
minimum elong	7461 Jan 11 12:04	23° $\mathcal{B}$ 02'28	0°01'16		7461 Dec 21 10:57	0° $\mathcal{B}$	
behind sun begin	7461 Jan 11 02:56	22° $\mathcal{B}$ 24'15					
behind sun end	7461 Jan 11 21:13	23° $\mathcal{B}$ 40'36		superior conj	7461 Dec 24 02:09	4° $\mathcal{B}$ 40'54	0°39'18
desc. node	7461 Jan 11 15:55	23° $\mathcal{B}$ 18'34		minimum elong	7461 Dec 24 05:08	4° $\mathcal{B}$ 54'03	0°38'58
	7461 Jan 15 17:19	0° $\approx$		desc. node	7461 Dec 29 12:52	14° $\mathcal{B}$ 04'07	
max. Earth dist.	7461 Jan 18 03:55	3° $\approx$ 57'08	1.43930 AU	max. Earth dist.	7461 Dec 31 16:16	17° $\mathcal{B}$ 39'06	1.42254 AU
evening rise	7461 Jan 26 12:55	17° $\approx$ 08'30		evening rise	7462 Jan 06 11:28	27° $\mathcal{B}$ 04'19	
	7461 Feb 04 00:06	0° $\mathcal{H}$			7462 Jan 08 07:55	0° $\approx$	
evening max el	7461 Feb 25 15:00	29° $\mathcal{H}$ 10'56	21°09'21		7462 Jan 28 18:27	0° $\mathcal{H}$	
	7461 Feb 26 10:50	0° $\mathcal{Y}$		evening max el	7462 Feb 08 09:02	12° $\mathcal{H}$ 50'34	22°25'46
asc. node	7461 Mar 05 12:23	4° $\mathcal{Y}$ 13'54		retrograde	7462 Feb 18 02:48	18° $\mathcal{H}$ 37'29	
retrograde	7461 Mar 06 06:08	4° $\mathcal{Y}$ 16'45		asc. node	7462 Feb 20 09:26	18° $\mathcal{H}$ 10'59	
evening set	7461 Mar 10 10:49	2° $\mathcal{Y}$ 37'51		evening set	7462 Feb 22 18:26	16° $\mathcal{H}$ 43'29	
	7461 Mar 13 01:06	30° $\mathcal{R}\mathcal{H}$		inferior conj	7462 Feb 28 02:45	10° $\mathcal{H}$ 21'13	2°18'48
inferior conj	7461 Mar 15 18:20	26° $\mathcal{H}$ 24'07	2°50'34	minimum elong	7462 Feb 28 00:27	10° $\mathcal{H}$ 29'11	2°18'08
minimum elong	7461 Mar 15 16:12	26° $\mathcal{H}$ 31'31	2°50'06	min. Earth dist.	7462 Feb 27 23:04	10° $\mathcal{H}$ 34'01	0.68338 AU
min. Earth dist.	7461 Mar 16 02:46	25° $\mathcal{H}$ 54'52	0.68085 AU	morning rise	7462 Mar 05 06:19	4° $\mathcal{H}$ 11'26	
morning rise	7461 Mar 20 21:24	20° $\mathcal{H}$ 10'20		direct	7462 Mar 09 22:26	2° $\mathcal{H}$ 14'02	
direct	7461 Mar 26 03:39	17° $\mathcal{H}$ 51'31		morning max el	7462 Mar 19 04:03	7° $\mathcal{H}$ 38'27	22°00'11
morning max el	7461 Apr 05 16:09	24° $\mathcal{H}$ 07'27	23°28'24	desc. node	7462 Mar 27 12:21	17° $\mathcal{H}$ 32'16	
desc. node	7461 Apr 09 15:22	28° $\mathcal{H}$ 28'51			7462 Apr 05 10:52	0° $\mathcal{Y}$	
	7461 Apr 10 21:51	0° $\mathcal{Y}$		morning set	7462 Apr 21 01:33	23° $\mathcal{Y}$ 55'37	
	7461 May 02 00:58	0° $\mathcal{B}$			7462 Apr 24 19:01	0° $\mathcal{B}$	
morning set	7461 May 10 18:27	14° $\mathcal{B}$ 12'45		max. Earth dist.	7462 Apr 26 16:52	3° $\mathcal{B}$ 10'22	1.41297 AU
max. Earth dist.	7461 May 14 18:41	21° $\mathcal{B}$ 06'14	1.39090 AU				
	7461 May 19 18:06	0° $\Pi$		superior conj	7462 May 04 10:40	16° $\mathcal{B}$ 28'49	-1°54'14
				minimum elong	7462 May 04 16:06	16° $\mathcal{B}$ 52'53	1°53'50
superior conj	7461 May 22 07:47	4° $\Pi$ 44'42	-1°28'58		7462 May 11 21:55	0° $\Pi$	
minimum elong	7461 May 22 12:58	5° $\Pi$ 08'55	1°28'21	evening rise	7462 May 15 00:27	5° $\Pi$ 45'09	
evening rise	7461 May 31 15:44	22° $\Pi$ 37'48		asc. node	7462 May 19 08:31	13° $\Pi$ 44'03	
asc. node	7461 Jun 01 11:31	24° $\Pi$ 13'28			7462 May 29 18:44	0° $\mathcal{B}$	
	7461 Jun 04 12:06	0° $\mathcal{B}$		evening max el	7462 May 31 04:38	1° $\mathcal{B}$ 30'20	18°14'25
evening max el	7461 Jun 16 20:38	18° $\mathcal{B}$ 49'37	18°42'43	retrograde	7462 Jun 07 06:31	5° $\mathcal{B}$ 03'40	
retrograde	7461 Jun 24 23:42	22° $\mathcal{B}$ 50'55		evening set	7462 Jun 09 15:27	4° $\mathcal{B}$ 40'28	
evening set	7461 Jun 27 01:10	22° $\mathcal{B}$ 36'20		inferior conj	7462 Jun 16 18:32	29° $\Pi$ 57'17	1°51'38
inferior conj	7461 Jul 04 23:32	18° $\mathcal{B}$ 13'39	0°29'02	minimum elong	7462 Jun 16 21:36	29° $\Pi$ 50'37	1°50'37
minimum elong	7461 Jul 05 00:38	18° $\mathcal{B}$ 11'36	0°28'33		7462 Jun 16 17:17	30° $\mathcal{R}\Pi$	
desc. node	7461 Jul 06 14:38	17° $\mathcal{B}$ 00'34		min. Earth dist.	7462 Jun 20 04:05	27° $\Pi$ 01'27	0.59332 AU
min. Earth dist.	7461 Jul 08 05:25	15° $\mathcal{B}$ 49'49	0.57226 AU	desc. node	7462 Jun 23 11:41	24° $\Pi$ 36'15	
morning rise	7461 Jul 12 20:36	13° $\mathcal{B}$ 03'51		morning rise	7462 Jun 24 00:42	24° $\Pi$ 16'51	
direct	7461 Jul 18 11:46	11° $\mathcal{B}$ 45'38		direct	7462 Jun 30 08:46	22° $\Pi$ 26'14	
morning max el	7461 Aug 01 20:12	19° $\mathcal{B}$ 17'17	26°28'38		7462 Jul 14 10:54	0° $\mathcal{B}$	
	7461 Aug 10 22:08	0° $\mathcal{Q}$		morning max el	7462 Jul 14 17:40	0° $\mathcal{B}$ 16'32	27°30'04
asc. node	7461 Aug 28 10:54	0° $\Pi$ 10'27			7462 Aug 04 23:33	0° $\mathcal{Q}$	
	7461 Aug 28 08:52	0° $\Pi$		morning set	7462 Aug 15 02:47	19° $\mathcal{Q}$ 37'15	
morning set	7461 Aug 30 19:14	5° $\Pi$ 04'18		asc. node	7462 Aug 15 07:53	20° $\mathcal{Q}$ 04'03	

	7462 Aug 19 22:31	0°♎		max. Earth dist.	7463 Aug 04 23:21	16°♊03'50	1.32026 AU
max. Earth dist.	7462 Aug 21 14:53	3°♎42'35	1.31725 AU				
superior conj	7462 Aug 22 05:13	5°♎01'57	1°05'35	superior conj	7463 Aug 06 15:25	19°♊42'53	0°44'13
minimum elong	7462 Aug 22 02:58	4°♎49'33	1°05'11	minimum elong	7463 Aug 06 13:35	19°♊32'51	0°43'48
evening rise	7462 Aug 28 23:33	19°♎51'06		evening rise	7463 Aug 11 07:49	0°♎	
	7462 Sep 02 21:57	0°♎			7463 Aug 26 20:38	0°♎	
desc. node	7462 Sep 19 10:43	27°♎06'36		desc. node	7463 Sep 06 07:47	13°♎58'48	
	7462 Sep 21 18:45	0°♎		evening max el	7463 Sep 08 03:16	15°♎48'40	24°42'39
evening max el	7462 Sep 26 12:17	5°♎03'09	26°07'10	retrograde	7463 Sep 21 23:16	22°♎46'24	
retrograde	7462 Oct 10 10:49	12°♎08'12		evening set	7463 Sep 27 07:30	21°♎42'33	
evening set	7462 Oct 16 21:28	10°♎28'30		min. Earth dist.	7463 Oct 02 14:23	18°♎56'05	0.56839 AU
min. Earth dist.	7462 Oct 21 01:19	7°♎53'43	0.58756 AU	inferior conj	7463 Oct 05 07:40	17°♎11'03	-5°28'25
inferior conj	7462 Oct 24 05:32	5°♎32'42	-4°55'43	minimum elong	7463 Oct 05 09:48	17°♎07'37	5°28'16
minimum elong	7462 Oct 24 11:55	5°♎20'50	4°54'28	morning rise	7463 Oct 13 14:17	13°♎05'26	
morning rise	7462 Nov 01 04:39	1°♎04'43		direct	7463 Oct 16 04:12	12°♎46'57	
direct	7462 Nov 03 12:01	0°♎46'55		morning max el	7463 Oct 25 13:54	17°♎13'44	19°23'57
asc. node	7462 Nov 11 07:20	4°♎24'43		asc. node	7463 Oct 29 04:21	21°♎15'41	
morning max el	7462 Nov 11 15:30	4°♎44'02	18°30'51		7463 Nov 03 22:27	0°♎	
	7462 Nov 27 11:48	0°♎		morning set	7463 Nov 11 18:15	14°♎50'01	
morning set	7462 Nov 27 16:40	0°♎23'25			7463 Nov 19 08:32	0°♎	
superior conj	7462 Dec 06 14:24	17°♎23'11	1°08'09	superior conj	7463 Nov 19 19:27	0°♎53'23	1°27'37
minimum elong	7462 Dec 06 17:55	17°♎39'30	1°07'49	minimum elong	7463 Nov 19 22:09	1°♎06'34	1°27'27
	7462 Dec 13 14:34	0°♎		max. Earth dist.	7463 Nov 26 05:58	13°♎05'10	1.38069 AU
max. Earth dist.	7462 Dec 14 00:14	0°♎42'00	1.40221 AU	evening rise	7463 Nov 29 23:35	19°♎46'57	
desc. node	7462 Dec 16 09:51	4°♎48'58		desc. node	7463 Dec 03 06:51	25°♎28'33	
evening rise	7462 Dec 18 06:30	7°♎56'28			7463 Dec 06 00:00	0°♎	
	7463 Jan 01 08:51	0°♎			7463 Dec 26 12:05	0°♎	
evening max el	7463 Jan 21 23:46	26°♎34'07	23°45'50	evening max el	7464 Jan 04 12:55	10°♎20'04	25°03'07
	7463 Jan 25 20:34	0°♎		retrograde	7464 Jan 16 09:51	17°♎13'04	
retrograde	7463 Feb 01 20:25	2°♎58'03		evening set	7464 Jan 22 02:38	14°♎51'01	
evening set	7463 Feb 07 00:14	0°♎49'22		asc. node	7464 Jan 25 03:34	11°♎40'16	
asc. node	7463 Feb 07 06:29	0°♎35'46		min. Earth dist.	7464 Jan 26 14:25	9°♎50'12	0.67661 AU
	7463 Feb 07 21:43	30°♎		inferior conj	7464 Jan 27 16:55	8°♎23'29	0°50'31
inferior conj	7463 Feb 12 10:53	24°♎22'16	1°38'35	minimum elong	7464 Jan 27 15:43	8°♎27'24	0°50'06
minimum elong	7463 Feb 12 08:54	24°♎29'03	1°37'55	morning rise	7464 Feb 02 05:03	2°♎26'40	
min. Earth dist.	7463 Feb 11 19:43	25°♎14'01	0.68193 AU	direct	7464 Feb 05 18:52	1°♎13'09	
morning rise	7463 Feb 17 17:33	18°♎18'06		morning max el	7464 Feb 13 00:32	5°♎15'01	19°33'42
direct	7463 Feb 21 19:59	16°♎43'15		greatest brilliancy	7464 Feb 25 20:13	22°♎04'35	-0.7m
morning max el	7463 Mar 01 22:16	21°♎20'49	20°40'22	desc. node	7464 Feb 29 06:17	27°♎11'17	
	7463 Mar 09 04:55	0°♎			7464 Mar 02 02:53	0°♎	
desc. node	7463 Mar 14 09:19	7°♎09'39		morning set	7464 Mar 09 04:43	10°♎49'58	
	7463 Mar 29 16:27	0°♎			7464 Mar 21 11:32	0°♎	
morning set	7463 Mar 31 07:22	2°♎30'46		max. Earth dist.	7464 Mar 21 11:23	29°♎59'24	1.44636 AU
max. Earth dist.	7463 Apr 08 22:30	16°♎11'31	1.43228 AU				
superior conj	7463 Apr 15 14:39	27°♎10'34	-2°09'22	superior conj	7464 Mar 25 17:39	6°♎46'54	-2°08'21
minimum elong	7463 Apr 15 17:15	27°♎21'27	2°09'21	minimum elong	7464 Mar 25 13:51	6°♎31'40	2°08'15
	7463 Apr 17 06:54	0°♎		evening rise	7464 Apr 08 14:36	29°♎36'04	
evening rise	7463 Apr 27 17:35	18°♎07'41			7464 Apr 08 20:17	0°♎	
	7463 May 04 12:22	0°♎		asc. node	7464 Apr 22 02:36	21°♎32'54	
asc. node	7463 May 06 05:33	2°♎52'56		evening max el	7464 Apr 27 06:04	27°♎57'50	18°15'49
evening max el	7463 May 14 16:53	14°♎35'59	18°05'39		7464 Apr 29 16:14	0°♎	
retrograde	7463 May 21 05:17	17°♎57'29		retrograde	7464 May 03 15:29	1°♎22'14	
evening set	7463 May 23 21:33	17°♎23'03		evening set	7464 May 06 14:39	0°♎35'05	
inferior conj	7463 May 30 08:41	12°♎19'40	2°45'38		7464 May 07 14:01	30°♎	
minimum elong	7463 May 30 11:31	12°♎12'34	2°44'55	inferior conj	7464 May 12 13:55	25°♎13'06	3°15'13
min. Earth dist.	7463 Jun 02 10:31	9°♎16'07	0.61575 AU	minimum elong	7464 May 12 15:31	25°♎08'35	3°14'57
morning rise	7463 Jun 05 23:26	6°♎18'51		min. Earth dist.	7464 May 15 02:15	22°♎24'05	0.63669 AU
desc. node	7463 Jun 10 08:43	4°♎15'33		morning rise	7464 May 18 15:14	19°♎01'07	
direct	7463 Jun 12 16:44	3°♎58'59		direct	7464 May 25 09:43	16°♎21'15	
morning max el	7463 Jun 26 21:37	11°♎58'56	27°54'39	desc. node	7464 May 27 05:45	16°♎31'53	
	7463 Jul 11 03:03	0°♎		morning max el	7464 Jun 08 06:17	24°♎22'26	27°41'38
	7463 Jul 28 07:25	0°♎			7464 Jun 13 08:05	0°♎	
morning set	7463 Jul 30 05:31	3°♎53'20		morning set	7464 Jul 03 12:37	0°♎	
asc. node	7463 Aug 02 04:52	10°♎06'04		max. Earth dist.	7464 Jul 13 01:09	17°♎46'15	
					7464 Jul 18 01:53	28°♎05'24	1.32788 AU

	7464 Jul 18 23:33	0°♎	direct	7465 May 08 10:21	29°♑24'49	
asc. node	7464 Jul 19 01:52	0°♎12'20		7465 May 11 16:05	0°♎	
			desc. node	7465 May 14 02:46	1°♎07'23	
superior conj	7464 Jul 20 22:17	4°♎09'56 0°18'50	morning max el	7465 May 21 16:42	7°♎15'27	26°55'42
minimum elong	7464 Jul 20 21:23	4°♎05'05 0°18'34		7465 Jun 08 06:26	0°♎	
evening rise	7464 Jul 27 22:25	19°♎17'25		7465 Jun 25 20:40	0°♎	
	7464 Aug 02 03:37	0°♎	morning set	7465 Jun 26 10:37	1°♎06'33	
evening max el	7464 Aug 19 14:50	26°♎05'25 23°04'29	max. Earth dist.	7465 Jun 30 18:43	9°♎38'04	1.34028 AU
desc. node	7464 Aug 23 04:51	29°♎08'50				
	7464 Aug 24 10:38	0°♎	superior conj	7465 Jul 04 23:34	18°♎15'59	-0°09'52
retrograde	7464 Sep 01 23:35	2°♎46'28	minimum elong	7465 Jul 05 00:06	18°♎18'48	0°09'52
evening set	7464 Sep 05 19:41	2°♎14'13	behind sun begin	7465 Jul 04 19:35	17°♎55'10	
	7464 Sep 11 03:27	30°♎	behind sun end	7465 Jul 05 04:37	18°♎42'26	
min. Earth dist.	7464 Sep 12 23:34	28°♎58'33 0.55395 AU	asc. node	7465 Jul 05 22:52	20°♎18'09	
inferior conj	7464 Sep 14 14:19	28°♎02'26 -5°18'32		7465 Jul 10 12:49	0°♎	
minimum elong	7464 Sep 14 09:14	28°♎09'50 5°17'58	evening rise	7465 Jul 12 08:43	3°♎51'20	
morning rise	7464 Sep 23 00:58	24°♎12'18		7465 Jul 26 20:41	0°♎	
direct	7464 Sep 26 01:14	23°♎50'53	evening max el	7465 Aug 01 07:45	6°♎28'18	21°29'16
morning max el	7464 Oct 07 00:02	28°♎57'37 20°39'17	desc. node	7465 Aug 10 01:56	12°♎03'23	
	7464 Oct 08 01:33	0°♎	retrograde	7465 Aug 13 14:00	12°♎32'54	
asc. node	7464 Oct 15 01:22	9°♎04'06	evening set	7465 Aug 16 02:15	12°♎18'30	
morning set	7464 Oct 26 01:20	29°♎31'00	inferior conj	7465 Aug 25 08:25	8°♎19'44	-4°14'23
	7464 Oct 26 06:58	0°♎	minimum elong	7465 Aug 24 23:04	8°♎32'51	4°11'58
			min. Earth dist.	7465 Aug 25 08:43	8°♎19'19	0.54729 AU
superior conj	7464 Nov 02 12:41	14°♎58'31 1°38'31	morning rise	7465 Sep 02 20:50	4°♎28'08	
minimum elong	7464 Nov 02 14:03	15°♎05'30 1°38'31	direct	7465 Sep 06 10:28	4°♎00'33	
max. Earth dist.	7464 Nov 07 13:47	25°♎02'05 1.36042 AU	morning max el	7465 Sep 18 22:01	9°♎54'40	22°13'55
	7464 Nov 10 04:07	0°♎	asc. node	7465 Oct 01 22:22	27°♎36'05	
evening rise	7464 Nov 11 12:14	2°♎29'49		7465 Oct 03 06:26	0°♎	
desc. node	7464 Nov 19 03:53	15°♎58'44	morning set	7465 Oct 10 11:38	14°♎19'25	
	7464 Nov 28 00:31	0°♎				
evening max el	7464 Dec 17 01:49	24°♎05'18 26°10'30	superior conj	7465 Oct 17 14:20	29°♎27'08	1°41'57
	7464 Dec 24 21:04	0°♎	minimum elong	7465 Oct 17 14:21	29°♎27'11	1°41'59
retrograde	7464 Dec 29 18:27	1°♎17'00		7465 Oct 17 20:34	0°♎	
	7465 Jan 03 05:34	30°♎	max. Earth dist.	7465 Oct 21 04:24	6°♎55'30	1.34327 AU
evening set	7465 Jan 04 23:58	28°♎44'45	evening rise	7465 Oct 25 16:30	15°♎54'51	
min. Earth dist.	7465 Jan 09 05:00	24°♎18'39 0.66755 AU		7465 Nov 02 08:25	0°♎	
inferior conj	7465 Jan 10 18:56	22°♎21'44 -0°04'49	desc. node	7465 Nov 06 00:56	6°♎14'14	
minimum elong	7465 Jan 10 19:03	22°♎21'21 0°04'39		7465 Nov 22 13:38	0°♎	
transit middle	7465 Jan 10 19:03	22°♎21'21 0°04'39	evening max el	7465 Nov 29 14:53	7°♎43'15	27°00'43
transit begin	7465 Jan 10 16:18	22°♎29'49	retrograde	7465 Dec 12 21:33	15°♎02'47	
transit end	7465 Jan 10 21:47	22°♎12'53	evening set	7465 Dec 19 14:12	12°♎25'40	
asc. node	7465 Jan 11 00:39	22°♎04'05	min. Earth dist.	7465 Dec 23 13:16	8°♎33'59	0.65490 AU
morning rise	7465 Jan 16 14:49	16°♎34'20	inferior conj	7465 Dec 25 14:49	6°♎12'53	-1°06'28
direct	7465 Jan 19 17:32	15°♎39'16	minimum elong	7465 Dec 25 16:45	6°♎07'22	1°05'32
morning max el	7465 Jan 26 10:10	19°♎17'49 18°42'29	asc. node	7465 Dec 28 21:43	2°♎44'12	
	7465 Feb 03 18:40	0°♎	morning rise	7465 Dec 31 20:28	0°♎37'16	
desc. node	7465 Feb 15 03:15	17°♎30'36		7466 Jan 02 19:49	30°♎	
morning set	7465 Feb 16 18:01	20°♎02'52	direct	7466 Jan 03 14:01	29°♎56'52	
	7465 Feb 23 02:12	0°♎		7466 Jan 04 08:18	0°♎	
max. Earth dist.	7465 Mar 04 04:48	14°♎15'44 1.45373 AU	morning max el	7466 Jan 10 01:00	3°♎23'18	18°07'48
				7466 Jan 28 01:34	0°♎	
superior conj	7465 Mar 05 01:40	15°♎37'31 -1°47'16	morning set	7466 Jan 28 12:23	0°♎44'11	
minimum elong	7465 Mar 04 16:28	15°♎01'25 1°46'28	desc. node	7466 Feb 02 00:14	8°♎02'42	
	7465 Mar 14 04:28	0°♎				
evening rise	7465 Mar 20 12:15	10°♎05'48	superior conj	7466 Feb 12 07:36	24°♎30'23	-1°09'12
greatest brilliancy	7465 Mar 27 23:03	22°♎02'30 -0.9m	minimum elong	7466 Feb 11 23:34	23°♎58'44	1°08'09
	7465 Apr 02 01:14	0°♎	max. Earth dist.	7466 Feb 15 00:09	28°♎44'13	1.45377 AU
asc. node	7465 Apr 08 23:41	9°♎34'18		7466 Feb 15 19:29	0°♎	
evening max el	7465 Apr 10 17:27	11°♎28'37 18°44'08	evening rise	7466 Feb 28 12:15	19°♎46'14	
retrograde	7465 Apr 17 08:48	15°♎08'45		7466 Mar 07 02:51	0°♎	
evening set	7465 Apr 20 15:03	14°♎07'56	greatest brilliancy	7466 Mar 13 03:57	9°♎13'30	-0.7m
inferior conj	7465 Apr 26 06:15	8°♎29'08 3°25'39	evening max el	7466 Mar 25 00:58	25°♎04'10	19°29'21
minimum elong	7465 Apr 26 06:26	8°♎28'33 3°25'36	asc. node	7466 Mar 26 20:47	26°♎45'48	
min. Earth dist.	7465 Apr 28 03:16	6°♎10'41 0.65447 AU	retrograde	7466 Apr 01 05:56	29°♎10'59	
morning rise	7465 May 01 21:11	2°♎12'32	evening set	7466 Apr 04 20:01	27°♎55'46	
	7465 May 05 09:11	30°♎	inferior conj	7466 Apr 10 06:17	22°♎01'53	3°21'09

minimum elong	7466 Apr 10 05:16	22° $\Upsilon$ 05'12	3°21'02			7467 Mar 30 03:03	30° $\mathcal{R}$ $\mathcal{H}$	
min. Earth dist.	7466 Apr 11 12:14	20° $\Upsilon$ 23'29	0.66822 AU	morning rise		7467 Mar 30 15:17	29° $\mathcal{H}$ 31'03	
morning rise	7466 Apr 15 14:11	15° $\Upsilon$ 44'45		direct		7467 Apr 05 05:42	27° $\mathcal{H}$ 01'16	
direct	7466 Apr 21 17:25	13° $\Upsilon$ 01'12				7467 Apr 12 06:59	0° $\Upsilon$	
desc. node	7466 Apr 30 23:46	17° $\Upsilon$ 30'25		morning max el		7467 Apr 16 11:21	3° $\Upsilon$ 44'33	24°19'55
morning max el	7466 May 04 02:33	20° $\Upsilon$ 25'43	25°45'07	desc. node		7467 Apr 17 20:45	5° $\Upsilon$ 11'45	
	7466 May 12 07:50	0° $\mathcal{B}$				7467 May 06 13:35	0° $\mathcal{B}$	
	7466 Jun 01 10:09	0° $\Pi$		morning set		7467 May 22 06:00	25° $\mathcal{B}$ 22'20	
morning set	7466 Jun 09 05:56	13° $\Pi$ 43'14				7467 May 24 21:01	0° $\Pi$	
max. Earth dist.	7466 Jun 13 00:13	20° $\Pi$ 45'04	1.35734 AU	max. Earth dist.		7467 May 25 21:37	1° $\Pi$ 50'19	1.37810 AU
	7466 Jun 17 17:53	0° $\mathcal{E}$						
				superior conj		7467 Jun 01 22:17	14° $\Pi$ 56'04	-1°11'57
superior conj	7466 Jun 18 16:40	1° $\mathcal{E}$ 54'14	-0°40'44	minimum elong		7467 Jun 02 02:36	15° $\Pi$ 16'47	1°11'21
minimum elong	7466 Jun 18 19:03	2° $\mathcal{E}$ 06'14	0°40'23	asc. node		7467 Jun 09 16:57	0° $\mathcal{E}$ 13'04	
asc. node	7466 Jun 22 19:54	10° $\mathcal{E}$ 19'47				7467 Jun 09 14:19	0° $\mathcal{E}$	
evening rise	7466 Jun 26 15:32	18° $\mathcal{E}$ 10'48		evening rise		7467 Jun 10 16:18	2° $\mathcal{E}$ 08'54	
	7466 Jul 02 15:18	0° $\mathcal{Q}$		evening max el		7467 Jun 27 06:29	29° $\mathcal{E}$ 08'30	19°08'12
evening max el	7466 Jul 14 12:43	17° $\mathcal{Q}$ 26'26	20°08'50			7467 Jun 28 04:30	0° $\mathcal{Q}$	
retrograde	7466 Jul 25 03:22	22° $\mathcal{Q}$ 39'49		retrograde		7467 Jul 06 04:48	3° $\mathcal{Q}$ 32'42	
evening set	7466 Jul 27 01:19	22° $\mathcal{Q}$ 30'22		evening set		7467 Jul 08 03:09	3° $\mathcal{Q}$ 21'12	
desc. node	7466 Jul 27 22:59	22° $\mathcal{Q}$ 19'38		desc. node		7467 Jul 14 20:01	0° $\mathcal{Q}$ 17'13	
inferior conj	7466 Aug 05 03:27	18° $\mathcal{Q}$ 31'50	-2°27'43			7467 Jul 15 06:35	30° $\mathcal{R}$ $\mathcal{E}$	
minimum elong	7466 Aug 04 20:40	18° $\mathcal{Q}$ 41'54	2°25'20	inferior conj		7467 Jul 16 12:55	29° $\mathcal{E}$ 09'10	-0°31'01
min. Earth dist.	7466 Aug 06 19:43	17° $\mathcal{Q}$ 32'03	0.55021 AU	minimum elong		7467 Jul 16 11:35	29° $\mathcal{E}$ 11'26	0°30'35
morning rise	7466 Aug 13 14:40	14° $\mathcal{Q}$ 18'34		min. Earth dist.		7467 Jul 19 09:42	27° $\mathcal{E}$ 13'07	0.56214 AU
direct	7466 Aug 17 21:45	13° $\mathcal{Q}$ 38'29		morning rise		7467 Jul 24 17:00	24° $\mathcal{E}$ 21'01	
morning max el	7466 Aug 31 12:02	20° $\mathcal{Q}$ 17'53	23°58'56	direct		7467 Jul 29 20:34	23° $\mathcal{E}$ 19'29	
	7466 Sep 08 18:05	0° $\mathcal{M}$				7467 Aug 12 10:26	0° $\mathcal{Q}$	
asc. node	7466 Sep 18 19:21	16° $\mathcal{M}$ 40'58		morning max el		7467 Aug 13 01:06	0° $\mathcal{Q}$ 34'29	25°39'33
morning set	7466 Sep 24 23:17	29° $\mathcal{M}$ 09'56				7467 Sep 02 12:12	0° $\mathcal{M}$	
	7466 Sep 25 08:42	0° $\mathcal{L}$		asc. node		7467 Sep 05 16:20	6° $\mathcal{M}$ 10'27	
				morning set		7467 Sep 09 10:41	13° $\mathcal{M}$ 58'10	
superior conj	7466 Oct 01 21:32	14° $\mathcal{L}$ 10'11	1°38'51					
minimum elong	7466 Oct 01 20:25	14° $\mathcal{L}$ 04'06	1°38'49	superior conj		7467 Sep 16 08:00	29° $\mathcal{M}$ 00'59	1°29'58
max. Earth dist.	7466 Oct 04 03:38	19° $\mathcal{L}$ 01'46	1.33028 AU	minimum elong		7467 Sep 16 06:06	28° $\mathcal{M}$ 50'31	1°29'47
evening rise	7466 Oct 09 08:31	29° $\mathcal{L}$ 51'42				7467 Sep 16 18:43	0° $\mathcal{L}$	
	7466 Oct 09 10:09	0° $\mathcal{M}$		max. Earth dist.		7467 Sep 17 10:00	1° $\mathcal{L}$ 24'02	1.32172 AU
desc. node	7466 Oct 23 22:00	26° $\mathcal{M}$ 07'54		evening rise		7467 Sep 23 09:03	14° $\mathcal{L}$ 11'37	
	7466 Oct 26 09:38	0° $\mathcal{J}$				7467 Oct 01 11:23	0° $\mathcal{M}$	
evening max el	7466 Nov 12 03:03	21° $\mathcal{J}$ 02'30	27°26'35	desc. node		7467 Oct 10 19:02	15° $\mathcal{M}$ 30'52	
retrograde	7466 Nov 25 18:12	28° $\mathcal{J}$ 21'04				7467 Oct 21 18:45	0° $\mathcal{J}$	
evening set	7466 Dec 02 18:46	25° $\mathcal{J}$ 46'48		evening max el		7467 Oct 25 12:03	3° $\mathcal{J}$ 49'55	27°22'01
min. Earth dist.	7466 Dec 06 12:59	22° $\mathcal{J}$ 27'32	0.63893 AU	retrograde		7467 Nov 08 07:32	11° $\mathcal{J}$ 03'15	
inferior conj	7466 Dec 09 01:59	19° $\mathcal{J}$ 50'12	-2°12'56	evening set		7467 Nov 15 10:24	8° $\mathcal{J}$ 41'23	
minimum elong	7466 Dec 09 06:05	19° $\mathcal{J}$ 39'38	2°11'13	min. Earth dist.		7467 Nov 19 02:22	5° $\mathcal{J}$ 49'14	0.62019 AU
morning rise	7466 Dec 15 19:04	14° $\mathcal{J}$ 29'25		inferior conj		7467 Nov 22 01:28	3° $\mathcal{J}$ 06'20	-3°21'02
asc. node	7466 Dec 15 18:45	14° $\mathcal{J}$ 29'43		minimum elong		7467 Nov 22 07:36	2° $\mathcal{J}$ 52'14	3°18'52
direct	7466 Dec 18 05:46	13° $\mathcal{J}$ 59'42				7467 Nov 25 17:20	30° $\mathcal{R}$ $\mathcal{M}$	
morning max el	7466 Dec 24 18:08	17° $\mathcal{J}$ 23'22	17°50'17	morning rise		7467 Nov 29 06:51	28° $\mathcal{M}$ 03'50	
	7467 Jan 02 20:59	0° $\mathcal{Z}$		direct		7467 Dec 01 13:29	27° $\mathcal{M}$ 41'11	
morning set	7467 Jan 10 10:29	12° $\mathcal{Z}$ 46'40		asc. node		7467 Dec 02 15:45	27° $\mathcal{M}$ 46'35	
desc. node	7467 Jan 19 21:13	28° $\mathcal{Z}$ 42'57				7467 Dec 07 03:10	0° $\mathcal{J}$	
	7467 Jan 20 15:54	0° $\approx$		morning max el		7467 Dec 08 10:30	1° $\mathcal{J}$ 10'37	17°50'42
				morning set		7467 Dec 24 05:56	25° $\mathcal{J}$ 50'10	
superior conj	7467 Jan 23 05:52	4° $\approx$ 13'45	-0°24'01			7467 Dec 26 13:37	0° $\mathcal{Z}$	
minimum elong	7467 Jan 23 03:11	4° $\approx$ 02'48	0°23'32					
max. Earth dist.	7467 Jan 28 18:56	13° $\approx$ 08'26	1.44656 AU	superior conj		7468 Jan 04 05:34	15° $\mathcal{Z}$ 11'10	0°18'23
evening rise	7467 Feb 08 00:00	29° $\approx$ 04'05		minimum elong		7468 Jan 04 07:14	15° $\mathcal{Z}$ 18'18	0°18'14
	7467 Feb 08 14:35	0° $\mathcal{H}$		desc. node		7468 Jan 06 18:14	19° $\mathcal{Z}$ 27'51	
	7467 Feb 28 23:23	0° $\Upsilon$		max. Earth dist.		7468 Jan 11 10:43	27° $\mathcal{Z}$ 12'26	1.43286 AU
evening max el	7467 Mar 08 03:16	8° $\Upsilon$ 41'25	20°29'23			7468 Jan 13 04:08	0° $\approx$	
asc. node	7467 Mar 13 17:51	12° $\Upsilon$ 52'59		evening rise		7468 Jan 18 14:39	8° $\approx$ 36'59	
retrograde	7467 Mar 16 04:19	13° $\Upsilon$ 23'37				7468 Feb 01 19:47	0° $\mathcal{H}$	
evening set	7467 Mar 20 03:22	11° $\Upsilon$ 53'23		evening max el		7468 Feb 19 00:06	22° $\mathcal{H}$ 20'00	21°40'58
inferior conj	7467 Mar 25 11:16	5° $\Upsilon$ 46'21	3°04'41	retrograde		7468 Feb 28 02:03	27° $\mathcal{H}$ 42'47	
minimum elong	7467 Mar 25 09:26	5° $\Upsilon$ 52'38	3°04'21	asc. node		7468 Feb 28 14:54	27° $\mathcal{H}$ 41'18	
min. Earth dist.	7467 Mar 26 03:13	4° $\Upsilon$ 51'48	0.67757 AU	evening set		7468 Mar 03 11:21	25° $\mathcal{H}$ 57'16	

inferior conj	7468 Mar 08 19:01	19° $\text{H}$ 39'33	2°38'08	min. Earth dist.	7469 Feb 20 18:49	4° $\text{H}$ 08'45	0.68325 AU
minimum elong	7468 Mar 08 16:45	19° $\text{H}$ 47'24	2°37'34		7469 Feb 23 21:51	30° $\text{R}$ $\approx$	
min. Earth dist.	7468 Mar 08 22:08	19° $\text{H}$ 28'42	0.68253 AU	morning rise	7469 Feb 26 08:09	27° $\approx$ 31'09	
morning rise	7468 Mar 13 22:00	13° $\text{H}$ 27'33		direct	7469 Mar 02 18:16	25° $\approx$ 43'37	
direct	7468 Mar 18 22:16	11° $\text{H}$ 17'38			7469 Mar 10 16:20	0° $\text{H}$	
morning max el	7468 Mar 28 21:17	17° $\text{H}$ 10'54	22°50'13	morning max el	7469 Mar 11 11:44	0° $\text{H}$ 47'09	21°24'53
desc. node	7468 Apr 03 17:45	23° $\text{H}$ 49'51		desc. node	7469 Mar 21 14:44	13° $\text{H}$ 08'59	
	7468 Apr 08 11:40	0° $\text{Y}$			7469 Apr 02 06:49	0° $\text{Y}$	
	7468 Apr 28 15:22	0° $\text{B}$		morning set	7469 Apr 12 00:40	15° $\text{Y}$ 01'12	
morning set	7468 May 02 05:12	5° $\text{B}$ 49'50		max. Earth dist.	7469 Apr 18 19:27	25° $\text{Y}$ 57'33	1.42166 AU
max. Earth dist.	7468 May 06 18:07	13° $\text{B}$ 28'07	1.40049 AU		7469 Apr 21 05:56	0° $\text{B}$	
superior conj	7468 May 14 12:16	27° $\text{B}$ 11'19	-1°40'34	superior conj	7469 Apr 26 05:55	8° $\text{B}$ 29'44	-2°02'14
minimum elong	7468 May 14 17:50	27° $\text{B}$ 36'43	1°40'00	minimum elong	7469 Apr 26 10:38	8° $\text{B}$ 50'05	2°02'02
	7468 May 16 01:03	0° $\text{II}$		evening rise	7469 May 07 10:43	28° $\text{B}$ 27'23	
evening rise	7468 May 24 07:59	15° $\text{II}$ 37'25			7469 May 08 07:06	0° $\text{II}$	
asc. node	7468 May 26 13:58	19° $\text{II}$ 53'15		asc. node	7469 May 13 11:01	9° $\text{II}$ 15'36	
	7468 Jun 01 03:47	0° $\text{E}$		evening max el	7469 May 23 20:27	24° $\text{II}$ 21'44	18°08'18
evening max el	7468 Jun 09 10:15	11° $\text{E}$ 29'34	18°28'12	retrograde	7469 May 30 15:28	27° $\text{II}$ 48'32	
retrograde	7468 Jun 17 01:08	15° $\text{E}$ 17'16		evening set	7469 Jun 02 03:24	27° $\text{II}$ 20'57	
evening set	7468 Jun 19 05:43	14° $\text{E}$ 59'22		inferior conj	7469 Jun 08 23:13	22° $\text{II}$ 29'00	2°17'51
inferior conj	7468 Jun 26 19:33	10° $\text{E}$ 27'41	1°07'44	minimum elong	7469 Jun 09 02:22	22° $\text{II}$ 21'40	2°16'54
minimum elong	7468 Jun 26 21:49	10° $\text{E}$ 23'09	1°06'50	min. Earth dist.	7469 Jun 12 06:30	19° $\text{II}$ 26'43	0.60280 AU
min. Earth dist.	7468 Jun 30 04:33	7° $\text{E}$ 47'41	0.58077 AU	morning rise	7469 Jun 15 22:39	16° $\text{II}$ 38'14	
desc. node	7468 Jun 30 17:04	7° $\text{E}$ 24'22		desc. node	7469 Jun 17 14:06	15° $\text{II}$ 43'51	
morning rise	7468 Jul 04 10:33	5° $\text{E}$ 03'42		direct	7469 Jun 22 11:29	14° $\text{II}$ 34'22	
direct	7468 Jul 10 09:29	3° $\text{E}$ 32'17		morning max el	7469 Jul 06 19:35	22° $\text{II}$ 30'35	27°45'20
morning max el	7468 Jul 24 18:57	11° $\text{E}$ 12'36	26°59'10		7469 Jul 13 10:24	0° $\text{E}$	
	7468 Aug 08 08:49	0° $\text{O}$			7469 Aug 01 11:27	0° $\text{O}$	
asc. node	7468 Aug 22 13:19	25° $\text{O}$ 56'38		morning set	7469 Aug 08 01:53	13° $\text{O}$ 04'14	
morning set	7468 Aug 23 20:08	28° $\text{O}$ 37'56		asc. node	7469 Aug 09 10:19	15° $\text{O}$ 54'13	
	7468 Aug 24 11:36	0° $\text{P}$		max. Earth dist.	7469 Aug 14 06:06	26° $\text{O}$ 20'31	1.31791 AU
superior conj	7468 Aug 30 19:45	13° $\text{P}$ 52'02	1°15'54	superior conj	7469 Aug 15 07:02	28° $\text{O}$ 38'06	0°57'03
minimum elong	7468 Aug 30 17:30	13° $\text{P}$ 39'34	1°15'33	minimum elong	7469 Aug 15 04:55	28° $\text{O}$ 26'21	0°56'37
max. Earth dist.	7468 Aug 30 20:04	13° $\text{P}$ 53'50	1.31756 AU		7469 Aug 15 21:52	0° $\text{P}$	
evening rise	7468 Sep 06 15:22	28° $\text{P}$ 45'30		evening rise	7469 Aug 22 01:19	13° $\text{P}$ 27'05	
	7468 Sep 07 05:29	0° $\text{A}$			7469 Aug 30 07:35	0° $\text{A}$	
	7468 Sep 23 18:52	0° $\text{M}$		desc. node	7469 Sep 13 13:08	21° $\text{A}$ 47'23	
desc. node	7468 Sep 26 16:05	4° $\text{M}$ 09'49		evening max el	7469 Sep 18 09:53	27° $\text{A}$ 02'39	25°33'53
evening max el	7468 Oct 06 14:55	15° $\text{M}$ 51'44	26°43'49		7469 Sep 21 21:05	0° $\text{M}$	
retrograde	7468 Oct 20 12:38	22° $\text{M}$ 59'58		retrograde	7469 Oct 02 08:13	4° $\text{M}$ 06'00	
evening set	7468 Oct 27 08:50	21° $\text{M}$ 01'31		evening set	7469 Oct 08 09:13	2° $\text{M}$ 41'02	
min. Earth dist.	7468 Oct 31 04:48	18° $\text{M}$ 25'23	0.59958 AU	min. Earth dist.	7469 Oct 12 22:01	0° $\text{M}$ 03'38	0.57900 AU
inferior conj	7468 Nov 03 09:45	15° $\text{M}$ 51'12	-4°24'52		7469 Oct 13 00:10	30° $\text{R}$ $\underline{\text{A}}$	
minimum elong	7468 Nov 03 16:48	15° $\text{M}$ 37'03	4°23'01	inferior conj	7469 Oct 15 23:31	27° $\text{A}$ 55'38	-5°13'37
morning rise	7468 Nov 11 03:03	11° $\text{M}$ 10'22		minimum elong	7469 Oct 16 04:37	27° $\text{A}$ 46'43	5°12'53
direct	7468 Nov 13 08:58	10° $\text{M}$ 51'39		morning rise	7469 Oct 24 02:21	23° $\text{A}$ 37'49	
asc. node	7468 Nov 18 12:46	12° $\text{M}$ 35'56		direct	7469 Oct 26 11:46	23° $\text{A}$ 20'10	
morning max el	7468 Nov 20 22:44	14° $\text{M}$ 35'37	18°10'19	morning max el	7469 Nov 04 03:15	27° $\text{A}$ 28'36	18°50'44
	7468 Dec 01 12:07	0° $\text{X}$		asc. node	7469 Nov 05 09:47	28° $\text{A}$ 46'44	
morning set	7468 Dec 06 16:32	9° $\text{X}$ 35'38			7469 Nov 06 11:25	0° $\text{M}$	
				morning set	7469 Nov 20 13:41	23° $\text{M}$ 49'53	
superior conj	7468 Dec 16 05:48	27° $\text{X}$ 18'53	0°52'42		7469 Nov 23 17:02	0° $\text{X}$	
minimum elong	7468 Dec 16 09:14	27° $\text{X}$ 34'22	0°52'20	superior conj	7469 Nov 29 01:49	10° $\text{X}$ 23'09	1°17'31
	7468 Dec 17 17:48	0° $\text{Z}$		minimum elong	7469 Nov 29 05:05	10° $\text{X}$ 38'43	1°17'14
desc. node	7468 Dec 23 15:14	10° $\text{Z}$ 13'26		max. Earth dist.	7469 Dec 06 03:26	23° $\text{X}$ 22'14	1.39302 AU
max. Earth dist.	7468 Dec 23 21:22	10° $\text{Z}$ 39'22	1.41424 AU		7469 Dec 09 22:58	0° $\text{Z}$	
evening rise	7468 Dec 28 21:13	18° $\text{Z}$ 54'44		evening rise	7469 Dec 10 01:42	0° $\text{Z}$ 11'36	
	7469 Jan 04 21:58	0° $\approx$		desc. node	7469 Dec 10 12:13	0° $\text{Z}$ 56'17	
	7469 Jan 26 07:36	0° $\text{H}$			7469 Dec 29 07:00	0° $\approx$	
evening max el	7469 Jan 31 16:23	6° $\text{H}$ 00'35	22°59'38	evening max el	7470 Jan 14 06:03	19° $\approx$ 44'32	24°19'28
retrograde	7469 Feb 10 21:40	12° $\text{H}$ 04'13		retrograde	7470 Jan 25 13:47	26° $\approx$ 22'50	
asc. node	7469 Feb 14 11:57	10° $\text{H}$ 59'13		evening set	7470 Jan 30 23:00	24° $\approx$ 08'12	
evening set	7469 Feb 15 18:25	10° $\text{H}$ 03'36		asc. node	7470 Feb 01 09:02	22° $\approx$ 46'47	
inferior conj	7469 Feb 21 03:33	3° $\text{H}$ 38'36	2°02'43	min. Earth dist.	7470 Feb 04 15:01	18° $\approx$ 47'21	0.68008 AU
minimum elong	7469 Feb 21 01:19	3° $\text{H}$ 46'17	2°02'02				

inferior conj	7470 Feb 05 11:02	17°  40'03	1°19'06	inferior conj	7471 Jan 20 15:39	1°  41'14	0°27'56
minimum elong	7470 Feb 05 09:19	17°  45'49	1°18'32	minimum elong	7471 Jan 20 14:57	1°  43'29	0°27'44
morning rise	7470 Feb 10 19:44	11°  38'38			7471 Jan 21 23:45	30°  R $\overline{\text{Z}}$	
direct	7470 Feb 14 16:32	10°  31'17		morning rise	7471 Jan 26 06:47	25°  Z47'51	
morning max el	7470 Feb 22 09:20	14°  34'38	20°10'09	direct	7471 Jan 29 15:41	24°  Z42'30	
	7470 Mar 06 10:48	0°  H		morning max el	7471 Feb 05 14:52	28°  Z33'09	19°09'50
desc. node	7470 Mar 08 11:41	2°  H57'21			7471 Feb 06 23:57	0°  Z	
morning set	7470 Mar 21 23:53	23°  H20'29		greatest brilliancy	7471 Feb 19 02:15	16°  Z37'02	-0.7m
	7470 Mar 26 06:42	0°  Y		desc. node	7471 Feb 23 08:40	23°  Z07'29	
max. Earth dist.	7470 Apr 01 03:46	9°  Y17'58	1.43898 AU		7471 Feb 27 19:38	0°  H	
				morning set	7471 Mar 01 01:23	1°  H55'12	
superior conj	7470 Apr 06 23:11	18°  Y42'45	-2°11'15	max. Earth dist.	7471 Mar 14 18:47	23°  H19'42	1.45046 AU
minimum elong	7470 Apr 06 23:22	18°  Y43'33	2°11'17				
	7470 Apr 13 17:29	0°  B		superior conj	7471 Mar 17 16:49	27°  H56'08	-2°01'53
evening rise	7470 Apr 19 19:49	10°  B27'29		minimum elong	7471 Mar 17 10:09	27°  H29'47	2°01'31
asc. node	7470 Apr 30 08:05	28°  B13'10			7471 Mar 19 00:02	0°  Y	
	7470 May 01 11:48	0°  II		evening rise	7471 Apr 01 07:04	21°  Y30'33	
evening max el	7470 May 07 09:30	7°  II35'07	18°07'45		7471 Apr 06 10:48	0°  B	
retrograde	7470 May 13 19:32	10°  II56'10		asc. node	7471 Apr 17 05:09	16°  B37'55	
evening set	7470 May 16 14:42	10°  II16'34		evening max el	7471 Apr 20 22:19	21°  B01'47	18°25'43
inferior conj	7470 May 22 20:20	5°  II05'23	3°00'46	retrograde	7471 Apr 27 09:05	24°  B30'57	
minimum elong	7470 May 22 22:42	4°  II59'07	3°00'17	evening set	7471 Apr 30 11:18	23°  B38'00	
min. Earth dist.	7470 May 25 17:00	2°  II05'16	0.62498 AU	inferior conj	7471 May 06 06:44	18°  B08'49	3°21'39
	7470 May 27 22:18	30°  R $\overline{\text{B}}$		minimum elong	7471 May 06 07:43	18°  B05'54	3°21'30
morning rise	7470 May 29 05:01	28°  B58'45		min. Earth dist.	7471 May 08 12:39	15°  B31'15	0.64483 AU
desc. node	7470 Jun 04 11:08	26°  B29'26		morning rise	7471 May 12 03:15	11°  B54'29	
direct	7470 Jun 04 23:50	26°  B28'34		direct	7471 May 18 20:22	9°  B09'36	
	7470 Jun 13 21:31	0°  II		desc. node	7471 May 22 08:10	9°  B48'19	
morning max el	7470 Jun 19 01:47	4°  II30'56	27°53'25	morning max el	7471 Jun 01 11:17	17°  B07'21	27°25'30
	7470 Jul 08 03:37	0°  B			7471 Jun 12 04:06	0°  II	
morning set	7470 Jul 23 01:54	27°  B10'50			7471 Jun 30 23:51	0°  B	
	7470 Jul 24 10:59	0°  Q		morning set	7471 Jul 06 17:34	10°  B50'23	
asc. node	7470 Jul 27 07:20	5°  Q58'16		max. Earth dist.	7471 Jul 11 10:50	20°  B21'26	1.33259 AU
max. Earth dist.	7470 Jul 28 12:15	8°  Q32'52	1.32287 AU	asc. node	7471 Jul 14 04:22	26°  B04'38	
superior conj	7470 Jul 30 16:04	13°  Q13'27	0°33'55	superior conj	7471 Jul 14 20:51	27°  B32'10	0°07'01
minimum elong	7470 Jul 30 14:34	13°  Q05'17	0°33'31	minimum elong	7471 Jul 14 20:30	27°  B30'18	0°06'51
evening rise	7470 Aug 06 12:54	28°  Q10'23		behind sun begin	7471 Jul 14 15:31	27°  B03'49	
	7470 Aug 07 09:31	0°  P		behind sun end	7471 Jul 15 01:29	27°  B56'49	
	7470 Aug 24 09:57	0°  B			7471 Jul 16 00:33	0°  Q	
evening max el	7470 Aug 30 22:37	7°  B32'12	24°01'40	evening rise	7471 Jul 22 00:16	12°  Q49'37	
desc. node	7470 Aug 31 10:13	7°  B59'42			7471 Jul 30 17:11	0°  P	
retrograde	7470 Sep 13 15:49	14°  B24'53		evening max el	7471 Aug 12 11:31	17°  P47'14	22°22'47
evening set	7470 Sep 18 08:56	13°  B36'02		desc. node	7471 Aug 18 07:18	22°  P15'51	
min. Earth dist.	7470 Sep 24 09:17	10°  B38'45	0.56138 AU	retrograde	7471 Aug 25 10:43	24°  P14'29	
inferior conj	7470 Sep 26 17:00	9°  B13'25	-5°30'32	evening set	7471 Aug 28 15:47	23°  P51'46	
minimum elong	7470 Sep 26 16:10	9°  B14'41	5°30'30	min. Earth dist.	7471 Sep 05 18:02	20°  P19'32	0.55000 AU
morning rise	7470 Oct 05 01:38	5°  B15'30		inferior conj	7471 Sep 06 16:58	19°  P47'11	-4°57'56
direct	7470 Oct 07 19:22	4°  B56'08		minimum elong	7471 Sep 06 09:17	19°  P58'03	4°56'34
morning max el	7470 Oct 17 20:40	9°  B39'26	19°53'23	morning rise	7471 Sep 15 04:31	15°  P58'49	
asc. node	7470 Oct 23 06:48	16°  B03'43		direct	7471 Sep 18 10:24	15°  P35'04	
	7470 Oct 31 12:23	0°  M		morning max el	7471 Sep 30 01:10	21°  P01'35	21°17'38
morning set	7470 Nov 04 17:58	8°  M23'28			7471 Oct 07 11:24	0°  B	
				asc. node	7471 Oct 10 03:49	4°  B11'49	
superior conj	7470 Nov 12 12:34	24°  M09'42	1°33'13	morning set	7471 Oct 20 02:40	23°  B08'05	
minimum elong	7470 Nov 12 14:44	24°  M20'29	1°33'07		7471 Oct 23 09:15	0°  M	
	7470 Nov 15 11:50	0°  X					
max. Earth dist.	7470 Nov 18 09:14	5°  X31'01	1.37175 AU	superior conj	7471 Oct 27 09:44	8°  M25'25	1°40'49
evening rise	7470 Nov 22 03:38	12°  X26'07		minimum elong	7471 Oct 27 10:31	8°  M29'27	1°40'51
desc. node	7470 Nov 27 09:15	21°  X32'43		max. Earth dist.	7471 Oct 31 19:48	17°  M24'50	1.35265 AU
	7470 Dec 02 13:16	0°  Z		evening rise	7471 Nov 04 23:24	25°  M27'56	
	7470 Dec 24 10:07	0°  Z			7471 Nov 07 09:57	0°  X	
evening max el	7470 Dec 27 19:10	3°  Z31'48	25°33'29	desc. node	7471 Nov 14 06:17	11°  X57'21	
retrograde	7471 Jan 09 01:22	10°  Z34'10			7471 Nov 26 00:54	0°  Z	
evening set	7471 Jan 14 23:29	8°  Z07'35		evening max el	7471 Dec 10 08:23	17°  Z15'38	26°34'28
asc. node	7471 Jan 19 06:05	3°  Z28'34		retrograde	7471 Dec 23 07:29	24°  Z31'04	
min. Earth dist.	7471 Jan 19 08:24	3°  Z21'14	0.67320 AU	evening set	7471 Dec 29 18:02	21°  Z56'13	

min. Earth dist.	7472 Jan 02 20:33	17° $\text{♁}$ 44'49	0.66264 AU	evening max el	7472 Nov 21 21:11	0° $\text{♁}$ 46'27	27°15'02
inferior conj	7472 Jan 04 15:20	15° $\text{♁}$ 37'05	-0°30'12	retrograde	7472 Dec 05 07:43	8° $\text{♁}$ 05'59	
minimum elong	7472 Jan 04 16:10	15° $\text{♁}$ 34'35	0°29'44	evening set	7472 Dec 12 04:27	5° $\text{♁}$ 28'48	
asc. node	7472 Jan 06 03:08	13° $\text{♁}$ 52'07		min. Earth dist.	7472 Dec 16 01:13	1° $\text{♁}$ 51'37	0.64853 AU
morning rise	7472 Jan 10 15:07	9° $\text{♁}$ 54'13			7472 Dec 17 18:08	30° $\text{♁}$	
direct	7472 Jan 13 13:48	9° $\text{♁}$ 05'41		inferior conj	7472 Dec 18 07:47	29° $\text{♁}$ 22'28	-1°34'11
morning max el	7472 Jan 20 02:58	12° $\text{♁}$ 37'31	18°25'40	minimum elong	7472 Dec 18 10:36	29° $\text{♁}$ 14'43	1°32'55
	7472 Feb 01 17:02	0° $\text{♁}$		asc. node	7472 Dec 23 00:11	24° $\text{♁}$ 54'27	
morning set	7472 Feb 09 02:35	11° $\text{♁}$ 45'05		morning rise	7472 Dec 24 18:08	23° $\text{♁}$ 53'00	
desc. node	7472 Feb 10 05:38	13° $\text{♁}$ 32'49		direct	7472 Dec 27 08:34	23° $\text{♁}$ 17'32	
	7472 Feb 20 15:15	0° $\text{♁}$		morning max el	7473 Jan 02 19:08	26° $\text{♁}$ 41'20	17°58'17
					7473 Jan 05 16:42	0° $\text{♁}$	
superior conj	7472 Feb 24 21:26	6° $\text{♁}$ 40'46	-1°32'42	morning set	7473 Jan 20 09:19	23° $\text{♁}$ 02'43	
minimum elong	7472 Feb 24 11:52	6° $\text{♁}$ 03'17	1°31'41		7473 Jan 24 14:01	0° $\text{♁}$	
max. Earth dist.	7472 Feb 25 13:52	7° $\text{♁}$ 45'06	1.45477 AU	desc. node	7473 Jan 27 02:36	4° $\text{♁}$ 08'42	
	7472 Mar 10 18:11	0° $\text{♁}$					
evening rise	7472 Mar 11 18:56	1° $\text{♁}$ 37'33		superior conj	7473 Feb 03 08:23	15° $\text{♁}$ 49'53	-0°50'13
greatest brilliancy	7472 Mar 21 15:49	17° $\text{♁}$ 08'45	-0.8m	minimum elong	7473 Feb 03 02:29	15° $\text{♁}$ 26'19	0°49'21
	7472 Mar 30 10:39	0° $\text{♁}$		max. Earth dist.	7473 Feb 07 09:38	22° $\text{♁}$ 14'53	1.45156 AU
asc. node	7472 Apr 03 02:13	4° $\text{♁}$ 19'42			7473 Feb 12 08:28	0° $\text{♁}$	
evening max el	7472 Apr 03 08:18	4° $\text{♁}$ 35'17	19°01'21	evening rise	7473 Feb 19 12:07	11° $\text{♁}$ 04'13	
retrograde	7472 Apr 10 04:23	8° $\text{♁}$ 25'15			7473 Mar 03 22:39	0° $\text{♁}$	
evening set	7472 Apr 13 13:58	7° $\text{♁}$ 18'09		greatest brilliancy	7473 Mar 05 18:38	2° $\text{♁}$ 42'53	-0.6m
inferior conj	7472 Apr 19 02:41	1° $\text{♁}$ 32'35	3°25'21	evening max el	7473 Mar 17 13:36	18° $\text{♁}$ 11'24	19°53'10
minimum elong	7472 Apr 19 02:20	1° $\text{♁}$ 33'42	3°25'17	asc. node	7473 Mar 20 23:16	21° $\text{♁}$ 05'40	
	7472 Apr 20 07:47	30° $\text{♁}$		retrograde	7473 Mar 25 02:25	22° $\text{♁}$ 32'38	
min. Earth dist.	7472 Apr 20 17:06	29° $\text{♁}$ 30'43	0.66092 AU	evening set	7473 Mar 28 20:10	21° $\text{♁}$ 11'00	
morning rise	7472 Apr 24 14:16	25° $\text{♁}$ 15'35		inferior conj	7473 Apr 03 05:07	15° $\text{♁}$ 10'56	3°15'31
direct	7472 Apr 30 23:39	22° $\text{♁}$ 28'35		minimum elong	7473 Apr 03 03:43	15° $\text{♁}$ 15'40	3°15'19
desc. node	7472 May 08 05:11	25° $\text{♁}$ 13'41		min. Earth dist.	7473 Apr 04 04:53	13° $\text{♁}$ 51'14	0.67271 AU
	7472 May 13 18:02	0° $\text{♁}$		morning rise	7473 Apr 08 11:00	8° $\text{♁}$ 54'17	
morning max el	7472 May 13 21:39	0° $\text{♁}$ 09'08	26°28'07	direct	7473 Apr 14 08:53	6° $\text{♁}$ 15'55	
	7472 Jun 05 02:46	0° $\text{♁}$		desc. node	7473 Apr 25 02:10	12° $\text{♁}$ 13'15	
morning set	7472 Jun 18 21:35	23° $\text{♁}$ 53'47		morning max el	7473 Apr 26 07:12	13° $\text{♁}$ 24'43	25°10'07
	7472 Jun 22 02:02	0° $\text{♁}$			7473 May 09 17:33	0° $\text{♁}$	
max. Earth dist.	7472 Jun 22 23:10	1° $\text{♁}$ 43'30	1.34706 AU		7473 May 28 21:45	0° $\text{♁}$	
				morning set	7473 Jun 01 09:24	6° $\text{♁}$ 07'59	
superior conj	7472 Jun 27 19:02	11° $\text{♁}$ 27'42	-0°22'47	max. Earth dist.	7473 Jun 05 00:54	12° $\text{♁}$ 47'39	1.36584 AU
minimum elong	7472 Jun 27 20:19	11° $\text{♁}$ 34'18	0°22'37				
asc. node	7472 Jun 30 01:23	16° $\text{♁}$ 09'28		superior conj	7473 Jun 11 07:39	24° $\text{♁}$ 51'20	-0°54'05
evening rise	7472 Jul 05 09:24	27° $\text{♁}$ 18'49		minimum elong	7473 Jun 11 10:53	25° $\text{♁}$ 07'16	0°53'36
	7472 Jul 06 16:38	0° $\text{♁}$			7473 Jun 13 21:36	0° $\text{♁}$	
evening max el	7472 Jul 24 09:03	28° $\text{♁}$ 22'40	20°52'43	asc. node	7473 Jun 16 22:23	6° $\text{♁}$ 08'00	
	7472 Jul 26 03:42	0° $\text{♁}$		evening rise	7473 Jun 19 13:58	11° $\text{♁}$ 30'15	
desc. node	7472 Aug 04 04:22	4° $\text{♁}$ 05'00			7473 Jun 29 11:32	0° $\text{♁}$	
retrograde	7472 Aug 04 23:08	4° $\text{♁}$ 06'31		evening max el	7473 Jul 06 19:30	9° $\text{♁}$ 38'52	19°40'25
evening set	7472 Aug 07 03:14	3° $\text{♁}$ 55'14		retrograde	7473 Jul 16 16:40	14° $\text{♁}$ 30'50	
inferior conj	7472 Aug 16 09:36	29° $\text{♁}$ 58'09	-3°32'39	evening set	7473 Jul 18 13:19	14° $\text{♁}$ 21'14	
minimum elong	7472 Aug 16 00:36	0° $\text{♁}$ 10'55	3°29'52	desc. node	7473 Jul 22 01:26	13° $\text{♁}$ 16'07	
	7472 Aug 16 08:18	30° $\text{♁}$		inferior conj	7473 Jul 27 09:28	10° $\text{♁}$ 18'00	-1°37'24
min. Earth dist.	7472 Aug 17 03:26	29° $\text{♁}$ 32'50	0.54735 AU	minimum elong	7473 Jul 27 05:00	10° $\text{♁}$ 24'59	1°35'46
morning rise	7472 Aug 24 22:07	26° $\text{♁}$ 00'07		min. Earth dist.	7473 Jul 29 15:36	8° $\text{♁}$ 53'28	0.55426 AU
direct	7472 Aug 28 18:42	25° $\text{♁}$ 28'16		morning rise	7473 Aug 04 18:26	5° $\text{♁}$ 50'32	
	7472 Sep 08 20:13	0° $\text{♁}$		direct	7473 Aug 09 09:42	5° $\text{♁}$ 02'46	
morning max el	7472 Sep 10 18:59	1° $\text{♁}$ 41'38	22°58'12	morning max el	7473 Aug 23 07:58	11° $\text{♁}$ 59'01	24°43'20
asc. node	7472 Sep 26 00:49	22° $\text{♁}$ 59'06			7473 Sep 06 02:48	0° $\text{♁}$	
	7472 Sep 29 16:49	0° $\text{♁}$		asc. node	7473 Sep 12 21:48	12° $\text{♁}$ 15'08	
morning set	7472 Oct 03 13:45	7° $\text{♁}$ 58'10		morning set	7473 Sep 18 01:28	22° $\text{♁}$ 48'04	
					7473 Sep 21 09:26	0° $\text{♁}$	
superior conj	7472 Oct 10 14:03	23° $\text{♁}$ 00'59	1°41'22				
minimum elong	7472 Oct 10 13:33	22° $\text{♁}$ 58'16	1°41'24	superior conj	7473 Sep 24 22:53	7° $\text{♁}$ 47'59	1°35'45
max. Earth dist.	7472 Oct 13 14:17	29° $\text{♁}$ 23'18	1.33720 AU	minimum elong	7473 Sep 24 21:23	7° $\text{♁}$ 39'47	1°35'39
	7472 Oct 13 21:19	0° $\text{♁}$		max. Earth dist.	7473 Sep 26 16:41	11° $\text{♁}$ 35'36	1.32604 AU
evening rise	7472 Oct 18 09:04	9° $\text{♁}$ 07'14		evening rise	7473 Oct 02 05:01	23° $\text{♁}$ 14'21	
	7472 Oct 29 21:02	0° $\text{♁}$			7473 Oct 05 14:20	0° $\text{♁}$	
desc. node	7472 Oct 31 03:20	2° $\text{♁}$ 04'23		desc. node	7473 Oct 18 00:24	21° $\text{♁}$ 46'09	
	7472 Nov 21 02:04	0° $\text{♁}$			7473 Oct 23 14:16	0° $\text{♁}$	



evening max el	7473 Nov 04 08:02	13° $\text{♊}$ 52'35	27°28'36		7474 Sep 12 18:11	0° $\text{♊}$	
retrograde	7473 Nov 18 01:30	21° $\text{♊}$ 10'02		evening rise	7474 Sep 16 08:19	7° $\text{♊}$ 41'02	
evening set	7473 Nov 25 03:58	18° $\text{♊}$ 39'21			7474 Sep 28 01:00	0° $\text{♊}$	
min. Earth dist.	7473 Nov 28 20:35	15° $\text{♊}$ 32'49	0.63120 AU	desc. node	7474 Oct 04 21:28	10° $\text{♊}$ 52'04	
inferior conj	7473 Dec 01 14:19	12° $\text{♊}$ 51'16	-2°41'56	evening max el	7474 Oct 17 14:43	26° $\text{♊}$ 21'40	27°09'59
minimum elong	7473 Dec 01 19:21	12° $\text{♊}$ 38'54	2°39'57		7474 Oct 22 00:13	0° $\text{♊}$	
morning rise	7473 Dec 08 12:37	7° $\text{♊}$ 38'11		retrograde	7474 Oct 31 11:48	3° $\text{♊}$ 33'23	
asc. node	7473 Dec 09 21:12	7° $\text{♊}$ 16'47		evening set	7474 Nov 07 12:52	1° $\text{♊}$ 20'15	
direct	7473 Dec 10 21:08	7° $\text{♊}$ 12'01			7474 Nov 09 11:32	30° $\text{♊}$	
morning max el	7473 Dec 17 12:23	10° $\text{♊}$ 37'09	17°48'18	min. Earth dist.	7474 Nov 11 05:28	28° $\text{♊}$ 36'24	0.61144 AU
	7473 Dec 30 12:50	0° $\text{♊}$		inferior conj	7474 Nov 14 07:46	25° $\text{♊}$ 55'09	-3°49'16
morning set	7474 Jan 02 17:16	5° $\text{♋}$ 33'15		minimum elong	7474 Nov 14 14:30	25° $\text{♊}$ 40'28	3°47'07
desc. node	7474 Jan 13 23:35	24° $\text{♋}$ 51'24		morning rise	7474 Nov 21 18:22	21° $\text{♊}$ 01'30	
				direct	7474 Nov 24 00:05	20° $\text{♊}$ 41'01	
superior conj	7474 Jan 14 17:07	26° $\text{♋}$ 04'14	-0°05'18	asc. node	7474 Nov 26 18:13	21° $\text{♊}$ 13'23	
minimum elong	7474 Jan 14 16:34	26° $\text{♋}$ 01'58	0°05'07	morning max el	7474 Dec 01 03:25	24° $\text{♊}$ 15'59	17°56'38
behind sun begin	7474 Jan 14 07:39	25° $\text{♋}$ 24'56			7474 Dec 05 19:01	0° $\text{♊}$	
behind sun end	7474 Jan 15 01:30	26° $\text{♋}$ 38'57		morning set	7474 Dec 16 19:50	18° $\text{♊}$ 56'23	
	7474 Jan 17 02:22	0° $\text{♋}$			7474 Dec 22 21:33	0° $\text{♋}$	
max. Earth dist.	7474 Jan 21 03:00	6° $\text{♋}$ 31'06	1.44133 AU				
evening rise	7474 Jan 29 23:06	20° $\text{♋}$ 23'32		superior conj	7474 Dec 27 03:39	7° $\text{♋}$ 32'28	0°34'05
	7474 Feb 05 06:26	0° $\text{♋}$		minimum elong	7474 Dec 27 06:22	7° $\text{♋}$ 44'22	0°33'47
	7474 Feb 26 20:43	0° $\text{♌}$		desc. node	7474 Dec 31 20:35	15° $\text{♋}$ 36'54	
evening max el	7474 Feb 28 13:27	1° $\text{♌}$ 49'11	20°58'39	max. Earth dist.	7475 Jan 03 16:12	20° $\text{♋}$ 18'52	1.42534 AU
asc. node	7474 Mar 07 20:20	6° $\text{♌}$ 41'33		evening rise	7475 Jan 09 19:14	0° $\text{♋}$ 12'34	
retrograde	7474 Mar 09 00:52	6° $\text{♌}$ 48'54			7475 Jan 09 16:04	0° $\text{♋}$	
evening set	7474 Mar 13 04:00	5° $\text{♌}$ 12'19			7475 Jan 29 20:17	0° $\text{♋}$	
	7474 Mar 17 18:13	30° $\text{♌}$		evening max el	7475 Feb 11 08:13	15° $\text{♋}$ 28'40	22°14'01
inferior conj	7474 Mar 18 11:34	29° $\text{♋}$ 00'16	2°54'36	retrograde	7475 Feb 20 21:51	21° $\text{♋}$ 09'13	
minimum elong	7474 Mar 18 09:30	29° $\text{♋}$ 07'25	2°54'10	asc. node	7475 Feb 22 17:24	20° $\text{♋}$ 52'19	
min. Earth dist.	7474 Mar 18 21:56	28° $\text{♋}$ 24'23	0.68014 AU	evening set	7475 Feb 25 11:47	19° $\text{♋}$ 17'28	
morning rise	7474 Mar 23 14:47	22° $\text{♋}$ 45'56		inferior conj	7475 Mar 02 19:53	12° $\text{♋}$ 56'22	2°24'09
direct	7474 Mar 28 23:10	20° $\text{♋}$ 24'01		minimum elong	7475 Mar 02 17:35	13° $\text{♋}$ 04'22	2°23'32
morning max el	7474 Apr 08 16:13	26° $\text{♋}$ 47'28	23°41'46	min. Earth dist.	7475 Mar 02 17:58	13° $\text{♋}$ 03'03	0.68330 AU
desc. node	7474 Apr 11 23:07	0° $\text{♌}$ 21'22		morning rise	7475 Mar 07 23:13	6° $\text{♋}$ 45'59	
	7474 Apr 11 15:40	0° $\text{♌}$		direct	7475 Mar 12 17:29	4° $\text{♋}$ 45'10	
	7474 May 03 07:58	0° $\text{♌}$		morning max el	7475 Mar 22 03:26	10° $\text{♋}$ 16'51	22°12'56
morning set	7474 May 13 23:37	17° $\text{♌}$ 19'06		desc. node	7475 Mar 29 20:05	19° $\text{♋}$ 18'23	
max. Earth dist.	7474 May 17 20:38	24° $\text{♌}$ 01'46	1.38759 AU		7475 Apr 06 15:07	0° $\text{♌}$	
	7474 May 21 04:44	0° $\text{♍}$		morning set	7475 Apr 24 10:58	27° $\text{♌}$ 13'37	
					7475 Apr 26 03:48	0° $\text{♌}$	
superior conj	7474 May 25 07:11	7° $\text{♍}$ 34'56	-1°24'37	max. Earth dist.	7475 Apr 29 18:14	5° $\text{♌}$ 58'43	1.40983 AU
minimum elong	7474 May 25 12:10	7° $\text{♍}$ 58'26	1°24'00				
evening rise	7474 Jun 03 11:19	25° $\text{♍}$ 17'03		superior conj	7475 May 07 13:09	19° $\text{♌}$ 27'48	-1°50'55
asc. node	7474 Jun 03 19:25	25° $\text{♍}$ 56'28		minimum elong	7475 May 07 18:43	19° $\text{♌}$ 52'36	1°50'29
	7474 Jun 05 21:45	0° $\text{♍}$			7475 May 13 08:20	0° $\text{♍}$	
evening max el	7474 Jun 19 18:00	21° $\text{♍}$ 38'57	18°48'39	evening rise	7475 May 17 22:00	8° $\text{♍}$ 30'22	
retrograde	7474 Jun 28 01:41	25° $\text{♍}$ 45'34		asc. node	7475 May 21 16:28	15° $\text{♍}$ 29'59	
evening set	7474 Jun 30 02:14	25° $\text{♍}$ 31'55			7475 May 30 10:49	0° $\text{♍}$	
inferior conj	7474 Jul 08 03:37	21° $\text{♍}$ 12'14	0°14'06	evening max el	7475 Jun 03 01:04	4° $\text{♍}$ 15'17	18°17'21
minimum elong	7474 Jul 08 04:10	21° $\text{♍}$ 11'14	0°13'47	retrograde	7475 Jun 10 05:52	7° $\text{♍}$ 51'43	
transit middle	7474 Jul 08 04:10	21° $\text{♍}$ 11'14	0°13'47	evening set	7475 Jun 12 13:43	7° $\text{♍}$ 29'56	
transit begin	7474 Jul 08 02:15	21° $\text{♍}$ 14'42		inferior conj	7475 Jun 19 19:30	2° $\text{♍}$ 49'41	1°41'00
transit end	7474 Jul 08 06:04	21° $\text{♍}$ 07'46		minimum elong	7475 Jun 19 22:26	2° $\text{♍}$ 43'27	1°39'59
desc. node	7474 Jul 08 22:28	20° $\text{♍}$ 37'52		min. Earth dist.	7475 Jun 23 05:18	29° $\text{♍}$ 57'17	0.59001 AU
min. Earth dist.	7474 Jul 11 07:45	18° $\text{♍}$ 54'59	0.56949 AU		7475 Jun 23 03:57	30° $\text{♍}$	
morning rise	7474 Jul 16 02:39	16° $\text{♍}$ 07'54		desc. node	7475 Jun 25 19:29	28° $\text{♍}$ 02'44	
direct	7474 Jul 21 14:59	14° $\text{♍}$ 54'06		morning rise	7475 Jun 27 04:01	27° $\text{♍}$ 13'19	
morning max el	7474 Aug 04 22:35	22° $\text{♍}$ 21'54	26°16'44	direct	7475 Jul 03 10:00	25° $\text{♍}$ 27'40	
	7474 Aug 11 16:59	0° $\text{♎}$			7475 Jul 14 03:02	0° $\text{♍}$	
	7474 Aug 29 20:36	0° $\text{♎}$		morning max el	7475 Jul 17 19:04	3° $\text{♍}$ 15'24	27°23'14
asc. node	7474 Aug 30 18:47	1° $\text{♎}$ 52'19			7475 Aug 06 06:53	0° $\text{♎}$	
morning set	7474 Sep 02 12:12	7° $\text{♎}$ 33'02		morning set	7475 Aug 17 20:21	22° $\text{♎}$ 08'19	
				asc. node	7475 Aug 17 15:48	21° $\text{♎}$ 44'28	
					7475 Aug 21 12:17	0° $\text{♎}$	
superior conj	7474 Sep 09 10:08	22° $\text{♎}$ 39'41	1°24'37				
minimum elong	7474 Sep 09 08:02	22° $\text{♎}$ 28'04	1°24'21				
max. Earth dist.	7474 Sep 10 00:48	24° $\text{♎}$ 00'52	1.31939 AU	superior conj	7475 Aug 24 21:57	7° $\text{♎}$ 30'08	1°08'29

minimum elong	7475 Aug 24 19:42	7° $\mathbb{M}$ 17'38	1°08'04	minimum elong	7476 Aug 08 06:35	22° $\Omega$ 02'02	0°47'19
max. Earth dist.	7475 Aug 24 11:24	6° $\mathbb{M}$ 31'40	1.31721 AU		7476 Aug 11 21:24	0° $\mathbb{M}$	
evening rise	7475 Aug 31 16:30	22° $\mathbb{M}$ 20'04		evening rise	7476 Aug 15 03:25	7° $\mathbb{M}$ 03'41	
	7475 Sep 04 09:11	0° $\mathbb{A}$			7476 Aug 27 00:44	0° $\mathbb{A}$	
desc. node	7475 Sep 21 18:32	29° $\mathbb{A}$ 08'01		desc. node	7476 Sep 07 15:37	16° $\mathbb{A}$ 13'04	
	7475 Sep 22 10:29	0° $\mathbb{M}$		evening max el	7476 Sep 10 06:34	18° $\mathbb{A}$ 55'11	24°56'28
evening max el	7475 Sep 29 14:41	8° $\mathbb{M}$ 03'42	26°17'38	retrograde	7476 Sep 24 03:15	25° $\mathbb{A}$ 54'35	
retrograde	7475 Oct 13 12:58	15° $\mathbb{M}$ 09'14		evening set	7476 Sep 29 16:21	24° $\mathbb{A}$ 45'11	
evening set	7475 Oct 20 02:32	13° $\mathbb{M}$ 24'27		min. Earth dist.	7476 Oct 04 17:51	22° $\mathbb{A}$ 01'45	0.57105 AU
min. Earth dist.	7475 Oct 24 03:55	10° $\mathbb{M}$ 49'54	0.59067 AU	inferior conj	7476 Oct 07 13:49	20° $\mathbb{A}$ 10'15	-5°25'45
inferior conj	7475 Oct 27 08:39	8° $\mathbb{M}$ 25'02	-4°48'18	minimum elong	7476 Oct 07 16:51	20° $\mathbb{A}$ 05'15	5°25'31
minimum elong	7475 Oct 27 15:19	8° $\mathbb{M}$ 12'23	4°46'51	morning rise	7476 Oct 15 19:37	16° $\mathbb{A}$ 01'44	
morning rise	7475 Nov 04 06:21	3° $\mathbb{M}$ 53'34		direct	7476 Oct 18 08:16	15° $\mathbb{A}$ 43'33	
direct	7475 Nov 06 13:13	3° $\mathbb{M}$ 35'35		morning max el	7476 Oct 27 12:55	20° $\mathbb{A}$ 05'03	19°14'37
asc. node	7475 Nov 13 15:14	6° $\mathbb{M}$ 39'35		asc. node	7476 Oct 30 12:16	23° $\mathbb{A}$ 20'28	
morning max el	7475 Nov 14 12:48	7° $\mathbb{M}$ 28'57	18°24'49		7476 Nov 04 03:33	0° $\mathbb{M}$	
	7475 Nov 28 22:35	0° $\mathbb{X}$		morning set	7476 Nov 13 12:04	17° $\mathbb{M}$ 20'03	
morning set	7475 Nov 30 11:30	2° $\mathbb{X}$ 56'15			7476 Nov 19 20:47	0° $\mathbb{X}$	
superior conj	7475 Dec 09 12:59	20° $\mathbb{X}$ 06'18	1°04'24	superior conj	7476 Nov 21 15:52	3° $\mathbb{X}$ 30'24	1°25'14
minimum elong	7475 Dec 09 16:31	20° $\mathbb{X}$ 22'37	1°04'01	minimum elong	7476 Nov 21 18:44	3° $\mathbb{X}$ 44'19	1°25'01
	7475 Dec 15 00:59	0° $\mathbb{Z}$		max. Earth dist.	7476 Nov 28 06:46	15° $\mathbb{X}$ 56'54	1.38388 AU
max. Earth dist.	7475 Dec 17 01:02	3° $\mathbb{Z}$ 28'48	1.40543 AU	evening rise	7476 Dec 02 00:53	22° $\mathbb{X}$ 37'33	
desc. node	7475 Dec 18 17:36	6° $\mathbb{Z}$ 22'04		desc. node	7476 Dec 04 14:39	27° $\mathbb{X}$ 02'47	
evening rise	7475 Dec 21 10:59	10° $\mathbb{Z}$ 55'37			7476 Dec 06 08:55	0° $\mathbb{Z}$	
	7476 Jan 02 14:41	0° $\mathbb{A}$			7476 Dec 26 11:42	0° $\mathbb{A}$	
evening max el	7476 Jan 24 23:20	29° $\mathbb{A}$ 11'14	23°33'54	evening max el	7477 Jan 06 12:31	12° $\mathbb{A}$ 56'40	24°52'03
	7476 Jan 25 19:17	0° $\mathbb{X}$		retrograde	7477 Jan 18 06:09	19° $\mathbb{A}$ 46'20	
retrograde	7476 Feb 04 15:56	5° $\mathbb{X}$ 29'54		evening set	7477 Jan 23 21:01	17° $\mathbb{A}$ 26'00	
evening set	7476 Feb 09 17:58	3° $\mathbb{X}$ 23'12		asc. node	7477 Jan 26 11:31	14° $\mathbb{A}$ 45'36	
asc. node	7476 Feb 09 14:27	3° $\mathbb{X}$ 30'30		min. Earth dist.	7477 Jan 28 09:49	12° $\mathbb{A}$ 20'04	0.67762 AU
	7476 Feb 12 21:23	30° $\mathbb{R}$		inferior conj	7477 Jan 29 10:40	10° $\mathbb{A}$ 58'07	0°58'17
min. Earth dist.	7476 Feb 14 14:40	27° $\mathbb{A}$ 42'54	0.68242 AU	minimum elong	7477 Jan 29 09:19	11° $\mathbb{A}$ 02'34	0°57'50
inferior conj	7476 Feb 15 04:11	26° $\mathbb{A}$ 56'36	1°45'10	morning rise	7477 Feb 03 21:51	5° $\mathbb{A}$ 00'09	
minimum elong	7476 Feb 15 02:07	27° $\mathbb{A}$ 03'40	1°44'30	direct	7477 Feb 07 13:25	3° $\mathbb{A}$ 43'43	
morning rise	7476 Feb 20 10:14	20° $\mathbb{A}$ 51'37		morning max el	7477 Feb 14 21:45	7° $\mathbb{A}$ 50'14	19°42'40
direct	7476 Feb 24 14:39	19° $\mathbb{A}$ 13'30		greatest brilliancy	7477 Feb 27 16:46	24° $\mathbb{A}$ 32'18	-0.6m
morning max el	7476 Mar 03 20:37	23° $\mathbb{A}$ 57'16	20°51'31	desc. node	7477 Mar 02 14:03	28° $\mathbb{A}$ 49'24	
	7476 Mar 09 03:22	0° $\mathbb{X}$			7477 Mar 03 08:52	0° $\mathbb{X}$	
desc. node	7476 Mar 15 17:04	8° $\mathbb{X}$ 50'54		morning set	7477 Mar 12 16:56	14° $\mathbb{X}$ 13'41	
	7476 Mar 29 23:44	0° $\mathbb{Y}$			7477 Mar 22 19:49	0° $\mathbb{Y}$	
morning set	7476 Apr 02 19:54	5° $\mathbb{Y}$ 56'34		max. Earth dist.	7477 Mar 24 10:44	2° $\mathbb{Y}$ 34'00	1.44462 AU
max. Earth dist.	7476 Apr 10 22:56	18° $\mathbb{Y}$ 52'30	1.42967 AU	superior conj	7477 Mar 29 03:22	10° $\mathbb{Y}$ 04'33	-2°09'46
superior conj	7476 Apr 17 20:47	0° $\mathbb{Z}$ 19'02	-2°07'59	minimum elong	7477 Mar 29 00:39	9° $\mathbb{Y}$ 53'35	2°09'43
minimum elong	7476 Apr 18 00:03	0° $\mathbb{Z}$ 32'54	2°07'55		7477 Apr 10 04:49	0° $\mathbb{Z}$	
	7476 Apr 17 16:16	0° $\mathbb{Z}$		evening rise	7477 Apr 11 18:04	2° $\mathbb{Z}$ 37'23	
evening rise	7476 Apr 29 17:47	21° $\mathbb{Z}$ 00'18		asc. node	7477 Apr 24 10:36	23° $\mathbb{Z}$ 27'46	
	7476 May 04 19:40	0° $\mathbb{I}$			7477 Apr 29 11:34	0° $\mathbb{I}$	
asc. node	7476 May 07 13:32	4° $\mathbb{I}$ 42'43		evening max el	7477 Apr 30 02:10	0° $\mathbb{I}$ 37'39	18°13'10
evening max el	7476 May 16 12:55	17° $\mathbb{I}$ 17'44	18°05'45	retrograde	7477 May 06 11:31	4° $\mathbb{I}$ 00'56	
retrograde	7476 May 23 02:42	20° $\mathbb{I}$ 40'13		evening set	7477 May 09 09:36	3° $\mathbb{I}$ 15'49	
evening set	7476 May 25 17:51	20° $\mathbb{I}$ 07'36			7477 May 13 12:22	30° $\mathbb{R}$	
inferior conj	7476 Jun 01 07:06	15° $\mathbb{I}$ 07'01	2°39'05	inferior conj	7477 May 15 10:24	27° $\mathbb{Z}$ 56'33	3°12'01
minimum elong	7476 Jun 01 10:03	14° $\mathbb{I}$ 59'45	2°38'19	minimum elong	7477 May 15 12:13	27° $\mathbb{Z}$ 51'31	3°11'42
min. Earth dist.	7476 Jun 04 10:29	12° $\mathbb{I}$ 03'10	0.61238 AU	min. Earth dist.	7477 May 18 00:57	25° $\mathbb{Z}$ 04'02	0.63371 AU
morning rise	7476 Jun 08 00:03	9° $\mathbb{I}$ 08'28		morning rise	7477 May 21 13:31	21° $\mathbb{Z}$ 45'37	
desc. node	7476 Jun 11 16:31	7° $\mathbb{I}$ 19'38		direct	7477 May 28 08:14	19° $\mathbb{Z}$ 07'52	
direct	7476 Jun 14 16:23	6° $\mathbb{I}$ 52'38		desc. node	7477 May 29 13:32	19° $\mathbb{Z}$ 12'34	
morning max el	7476 Jun 28 22:17	14° $\mathbb{I}$ 51'46	27°53'32	morning max el	7477 Jun 11 06:29	27° $\mathbb{Z}$ 09'59	27°45'48
	7476 Jul 11 04:28	0° $\mathbb{E}$			7477 Jun 13 22:34	0° $\mathbb{I}$	
	7476 Jul 28 18:59	0° $\mathbb{Q}$			7477 Jul 04 20:47	0° $\mathbb{E}$	
morning set	7476 Jul 31 23:57	6° $\mathbb{Q}$ 27'23		morning set	7477 Jul 15 20:48	20° $\mathbb{E}$ 24'11	
asc. node	7476 Aug 03 12:48	11° $\mathbb{Q}$ 45'35			7477 Jul 20 12:46	0° $\mathbb{Q}$	
max. Earth dist.	7476 Aug 06 20:29	18° $\mathbb{Q}$ 55'11	1.31951 AU	max. Earth dist.	7477 Jul 21 00:05	0° $\mathbb{Q}$ 59'52	1.32644 AU
				asc. node	7477 Jul 21 09:50	1° $\mathbb{Q}$ 51'35	
superior conj	7476 Aug 08 08:31	22° $\mathbb{Q}$ 12'37	0°47'46				

superior conj	7477 Jul 23 15:59	6° $\Omega$ 41'55	0°22'56		7478 Jun 27 07:42	0° $\Theta$	
minimum elong	7477 Jul 23 14:55	6° $\Omega$ 36'06	0°22'37	morning set	7478 Jun 29 07:58	3° $\Theta$ 49'43	
evening rise	7477 Jul 30 15:09	21° $\Omega$ 46'22		max. Earth dist.	7478 Jul 03 18:20	12° $\Theta$ 35'55	1.33811 AU
	7477 Aug 03 14:13	0° $\Pi$					
evening max el	7477 Aug 22 18:04	29° $\Pi$ 13'43	23°19'16	superior conj	7478 Jul 07 18:14	20° $\Theta$ 51'28	-0°05'22
	7477 Aug 23 13:41	0° $\Omega$		minimum elong	7478 Jul 07 18:32	20° $\Theta$ 52'59	0°05'23
desc. node	7477 Aug 25 12:40	1° $\Omega$ 40'15		behind sun begin	7478 Jul 07 13:12	20° $\Theta$ 24'59	
retrograde	7477 Sep 05 05:35	5° $\Omega$ 58'36		behind sun end	7478 Jul 07 23:52	21° $\Theta$ 21'01	
evening set	7477 Sep 09 07:05	5° $\Omega$ 22'27		asc. node	7478 Jul 08 06:51	21° $\Theta$ 57'50	
min. Earth dist.	7477 Sep 16 03:27	2° $\Omega$ 11'53	0.55566 AU		7478 Jul 12 01:43	0° $\Omega$	
inferior conj	7477 Sep 17 23:04	1° $\Omega$ 07'53	-5°23'27	evening rise	7478 Jul 15 01:46	6° $\Omega$ 21'40	
minimum elong	7477 Sep 17 19:04	1° $\Omega$ 13'47	5°23'06		7478 Jul 27 18:44	0° $\Pi$	
	7477 Sep 19 22:04	30° $\mathcal{R}\Pi$		evening max el	7478 Aug 04 09:44	9° $\Pi$ 33'55	21°42'46
morning rise	7477 Sep 26 09:17	27° $\Pi$ 16'14		desc. node	7478 Aug 12 09:43	14° $\Pi$ 57'20	
direct	7477 Sep 29 07:42	26° $\Pi$ 55'29		retrograde	7478 Aug 16 20:57	15° $\Pi$ 44'53	
	7477 Oct 07 17:30	0° $\Omega$		evening set	7478 Aug 19 12:57	15° $\Pi$ 28'50	
morning max el	7477 Oct 10 00:58	1° $\Omega$ 55'56	20°26'45	inferior conj	7478 Aug 28 18:19	11° $\Pi$ 29'02	-4°27'30
asc. node	7477 Oct 17 09:16	11° $\Omega$ 00'50		minimum elong	7478 Aug 28 09:09	11° $\Pi$ 41'52	4°25'18
	7477 Oct 27 19:08	0° $\mathcal{M}$		min. Earth dist.	7478 Aug 28 12:31	11° $\Pi$ 37'09	0.54768 AU
morning set	7477 Oct 28 18:28	1° $\mathcal{M}$ 59'05		morning rise	7478 Sep 06 06:32	7° $\Pi$ 38'49	
				direct	7478 Sep 09 18:02	7° $\Pi$ 12'20	
superior conj	7477 Nov 05 07:31	17° $\mathcal{M}$ 31'01	1°37'21	morning max el	7478 Sep 22 00:31	12° $\Pi$ 59'31	21°58'53
minimum elong	7477 Nov 05 09:06	17° $\mathcal{M}$ 39'03	1°37'20	asc. node	7478 Oct 04 06:16	29° $\Pi$ 27'17	
max. Earth dist.	7477 Nov 10 13:44	27° $\mathcal{M}$ 55'31	1.36325 AU		7478 Oct 04 13:47	0° $\Omega$	
	7477 Nov 11 15:46	0° $\mathcal{X}$		morning set	7478 Oct 13 04:23	16° $\Omega$ 46'59	
evening rise	7477 Nov 14 10:51	5° $\mathcal{X}$ 13'17			7478 Oct 19 09:56	0° $\mathcal{M}$	
desc. node	7477 Nov 21 11:42	17° $\mathcal{X}$ 34'52					
	7477 Nov 29 06:03	0° $\mathcal{Z}$		superior conj	7478 Oct 20 08:06	1° $\mathcal{M}$ 56'54	1°41'51
evening max el	7477 Dec 20 01:24	26° $\mathcal{Z}$ 42'31	26°01'25	minimum elong	7478 Oct 20 08:18	1° $\mathcal{M}$ 57'59	1°41'54
	7477 Dec 23 19:01	0° $\approx$		max. Earth dist.	7478 Oct 24 03:11	9° $\mathcal{M}$ 48'43	1.34557 AU
retrograde	7478 Jan 01 15:37	3° $\approx$ 52'29		evening rise	7478 Oct 28 13:02	18° $\mathcal{M}$ 33'08	
evening set	7478 Jan 07 19:13	1° $\approx$ 21'32			7478 Nov 03 17:53	0° $\mathcal{X}$	
	7478 Jan 09 06:30	30° $\mathcal{R}\mathcal{Z}$		desc. node	7478 Nov 08 08:44	7° $\mathcal{X}$ 53'17	
min. Earth dist.	7478 Jan 12 01:12	26° $\mathcal{Z}$ 50'12	0.66911 AU		7478 Nov 23 10:11	0° $\mathcal{Z}$	
asc. node	7478 Jan 13 08:35	25° $\mathcal{Z}$ 12'28		evening max el	7478 Dec 02 14:33	10° $\mathcal{Z}$ 22'50	26°54'39
inferior conj	7478 Jan 13 13:25	24° $\mathcal{Z}$ 57'22	0°04'03	retrograde	7478 Dec 15 19:33	17° $\mathcal{Z}$ 41'37	
minimum elong	7478 Jan 13 13:18	24° $\mathcal{Z}$ 57'43	0°04'06	evening set	7478 Dec 22 10:38	15° $\mathcal{Z}$ 05'00	
transit middle	7478 Jan 13 13:18	24° $\mathcal{Z}$ 57'43	0°04'06	min. Earth dist.	7478 Dec 26 10:36	11° $\mathcal{Z}$ 08'07	0.65701 AU
transit begin	7478 Jan 13 10:33	25° $\mathcal{Z}$ 06'19		inferior conj	7478 Dec 28 10:21	8° $\mathcal{Z}$ 50'19	-0°56'42
transit end	7478 Jan 13 16:04	24° $\mathcal{Z}$ 49'07		minimum elong	7478 Dec 28 11:59	8° $\mathcal{Z}$ 45'36	0°55'55
morning rise	7478 Jan 19 08:00	19° $\mathcal{Z}$ 08'20		asc. node	7478 Dec 31 05:36	5° $\mathcal{Z}$ 46'49	
direct	7478 Jan 22 12:14	18° $\mathcal{Z}$ 10'47		morning rise	7479 Jan 03 14:25	3° $\mathcal{Z}$ 12'38	
morning max el	7478 Jan 29 06:23	21° $\mathcal{Z}$ 52'14	18°49'01	direct	7479 Jan 06 09:13	2° $\mathcal{Z}$ 30'14	
	7478 Feb 04 20:40	0° $\approx$		morning max el	7479 Jan 12 20:33	5° $\mathcal{Z}$ 57'50	18°11'52
desc. node	7478 Feb 17 11:01	19° $\approx$ 06'32			7479 Jan 29 09:25	0° $\approx$	
morning set	7478 Feb 20 02:35	23° $\approx$ 15'03		morning set	7479 Jan 31 16:30	3° $\approx$ 43'25	
	7478 Feb 24 10:07	0° $\mathcal{H}$		desc. node	7479 Feb 04 08:01	9° $\approx$ 37'19	
max. Earth dist.	7478 Mar 07 03:25	16° $\mathcal{H}$ 46'25	1.45310 AU				
				superior conj	7479 Feb 15 18:22	27° $\approx$ 49'03	-1°15'41
superior conj	7478 Mar 08 13:24	18° $\mathcal{H}$ 59'46	-1°51'43	minimum elong	7479 Feb 15 09:44	27° $\approx$ 15'08	1°14'37
minimum elong	7478 Mar 08 04:39	18° $\mathcal{H}$ 25'25	1°51'02		7479 Feb 17 03:42	0° $\mathcal{H}$	
	7478 Mar 15 12:39	0° $\mathcal{Y}$		max. Earth dist.	7479 Feb 17 22:42	1° $\mathcal{H}$ 14'29	1.45432 AU
evening rise	7478 Mar 23 19:14	13° $\mathcal{Y}$ 15'25		evening rise	7479 Mar 03 22:03	23° $\mathcal{H}$ 02'05	
greatest brilliancy	7478 Mar 30 00:17	23° $\mathcal{Y}$ 17'16	-0.9m		7479 Mar 08 09:30	0° $\mathcal{Y}$	
	7478 Apr 03 05:31	0° $\mathcal{B}$		greatest brilliancy	7479 Mar 15 21:33	11° $\mathcal{Y}$ 33'04	-0.7m
asc. node	7478 Apr 11 07:40	11° $\mathcal{B}$ 35'35		evening max el	7479 Mar 27 22:09	27° $\mathcal{Y}$ 42'29	19°21'35
evening max el	7478 Apr 13 13:58	14° $\mathcal{B}$ 07'22	18°38'50	asc. node	7479 Mar 29 04:42	28° $\mathcal{Y}$ 55'20	
retrograde	7478 Apr 20 03:54	17° $\mathcal{B}$ 44'18			7479 Mar 30 12:39	0° $\mathcal{B}$	
evening set	7478 Apr 23 09:04	16° $\mathcal{B}$ 45'36		retrograde	7479 Apr 04 00:33	1° $\mathcal{B}$ 44'28	
inferior conj	7478 Apr 29 01:15	11° $\mathcal{B}$ 09'22	3°25'05	evening set	7479 Apr 07 13:27	0° $\mathcal{B}$ 31'22	
minimum elong	7478 Apr 29 01:39	11° $\mathcal{B}$ 08'09	3°25'00		7479 Apr 08 06:11	30° $\mathcal{R}\mathcal{Y}$	
min. Earth dist.	7478 May 01 00:38	8° $\mathcal{B}$ 45'29	0.65210 AU	inferior conj	7479 Apr 13 00:16	24° $\mathcal{Y}$ 39'38	3°22'39
morning rise	7478 May 04 17:32	4° $\mathcal{B}$ 53'09		minimum elong	7479 Apr 12 23:26	24° $\mathcal{Y}$ 42'24	3°22'32
direct	7478 May 11 07:54	2° $\mathcal{B}$ 05'40		min. Earth dist.	7479 Apr 14 08:25	22° $\mathcal{Y}$ 54'58	0.66652 AU
desc. node	7478 May 16 10:31	3° $\mathcal{B}$ 28'40		morning rise	7479 Apr 18 09:03	18° $\mathcal{Y}$ 22'32	
morning max el	7478 May 24 16:43	9° $\mathcal{B}$ 58'53	27°04'15	direct	7479 Apr 24 14:02	15° $\mathcal{Y}$ 37'41	
	7478 Jun 09 10:24	0° $\mathcal{I}$		desc. node	7479 May 03 07:32	19° $\mathcal{Y}$ 37'20	

morning max el	7479 May 07 02:35	23° $\Upsilon$ 06'40	25°56'45		7480 Apr 09 12:59	0° $\Upsilon$	
	7479 May 13 04:48	0° $\mathcal{B}$		morning max el	7480 Apr 18 11:34	6° $\Upsilon$ 25'17	24°33'10
	7479 Jun 02 18:25	0° $\Pi$		desc. node	7480 Apr 19 04:32	7° $\Upsilon$ 08'53	
morning set	7479 Jun 12 05:39	16° $\Pi$ 33'24			7480 May 06 18:31	0° $\mathcal{B}$	
max. Earth dist.	7479 Jun 16 01:25	23° $\Pi$ 45'34	1.35453 AU	morning set	7480 May 24 08:58	28° $\mathcal{B}$ 22'30	
	7479 Jun 19 06:01	0° $\mathcal{E}$			7480 May 25 07:06	0° $\Pi$	
				max. Earth dist.	7480 May 27 23:58	4° $\Pi$ 50'52	1.37487 AU
superior conj	7479 Jun 21 12:44	4° $\mathcal{E}$ 34'18	-0°36'00				
minimum elong	7479 Jun 21 14:49	4° $\mathcal{E}$ 44'52	0°35'41	superior conj	7480 Jun 03 20:19	17° $\Pi$ 42'34	-1°07'18
asc. node	7479 Jun 25 03:52	12° $\mathcal{E}$ 00'22		minimum elong	7480 Jun 04 00:21	18° $\Pi$ 02'08	1°06'43
evening rise	7479 Jun 29 09:12	20° $\mathcal{E}$ 43'41			7480 Jun 10 01:46	0° $\mathcal{E}$	
	7479 Jul 04 00:18	0° $\Omega$		asc. node	7480 Jun 11 00:53	1° $\mathcal{E}$ 55'26	
evening max el	7479 Jul 17 12:42	20° $\Omega$ 25'47	20°19'39	evening rise	7480 Jun 12 11:05	4° $\mathcal{E}$ 46'01	
retrograde	7479 Jul 28 09:27	25° $\Omega$ 47'01			7480 Jun 27 07:42	0° $\Omega$	
evening set	7479 Jul 30 08:31	25° $\Omega$ 37'18		evening max el	7480 Jun 29 04:38	2° $\Omega$ 01'21	19°15'53
desc. node	7479 Jul 30 06:46	25° $\Omega$ 38'01		retrograde	7480 Jul 08 08:38	6° $\Omega$ 32'30	
inferior conj	7479 Aug 08 12:13	21° $\Omega$ 39'44	-2°45'22	evening set	7480 Jul 10 06:18	6° $\Omega$ 21'38	
minimum elong	7479 Aug 08 04:43	21° $\Omega$ 50'43	2°42'47	desc. node	7480 Jul 16 03:49	3° $\Omega$ 52'55	
min. Earth dist.	7479 Aug 09 23:00	20° $\Omega$ 48'53	0.54913 AU	inferior conj	7480 Jul 18 18:56	2° $\Omega$ 12'00	-0°47'59
morning rise	7479 Aug 16 23:55	17° $\Omega$ 31'05		minimum elong	7480 Jul 18 16:49	2° $\Omega$ 15'30	0°47'16
direct	7479 Aug 21 04:16	16° $\Omega$ 53'22		min. Earth dist.	7480 Jul 21 12:22	0° $\Omega$ 23'54	0.55984 AU
morning max el	7479 Sep 03 15:12	23° $\Omega$ 26'11	23°43'14		7480 Jul 22 03:27	30° $\mathcal{R}$ $\mathcal{E}$	
	7479 Sep 09 12:47	0° $\mathcal{H}$		morning rise	7480 Jul 27 00:29	27° $\mathcal{E}$ 29'25	
asc. node	7479 Sep 21 03:16	18° $\mathcal{H}$ 28'10		direct	7480 Aug 01 00:50	26° $\mathcal{E}$ 31'52	
	7479 Sep 26 21:25	0° $\underline{\mathcal{A}}$			7480 Aug 10 16:32	0° $\Omega$	
morning set	7479 Sep 27 15:56	1° $\underline{\mathcal{A}}$ 37'46		morning max el	7480 Aug 15 04:04	3° $\Omega$ 42'09	25°25'36
					7480 Sep 02 20:59	0° $\mathcal{H}$	
superior conj	7479 Oct 04 14:36	16° $\underline{\mathcal{A}}$ 38'22	1°39'41	asc. node	7480 Sep 07 00:17	7° $\mathcal{H}$ 54'33	
minimum elong	7479 Oct 04 13:37	16° $\underline{\mathcal{A}}$ 33'08	1°39'41	morning set	7480 Sep 11 03:29	16° $\mathcal{H}$ 26'42	
max. Earth dist.	7479 Oct 07 01:17	21° $\underline{\mathcal{A}}$ 53'24	1.33194 AU		7480 Sep 17 08:39	0° $\underline{\mathcal{A}}$	
	7479 Oct 10 22:38	0° $\mathcal{M}$					
evening rise	7479 Oct 12 03:30	2° $\mathcal{M}$ 25'57		superior conj	7480 Sep 18 00:42	1° $\underline{\mathcal{A}}$ 28'22	1°31'40
desc. node	7479 Oct 26 05:46	27° $\mathcal{M}$ 50'57		minimum elong	7480 Sep 17 22:54	1° $\underline{\mathcal{A}}$ 18'26	1°31'30
	7479 Oct 27 14:23	0° $\mathcal{X}$		max. Earth dist.	7480 Sep 19 06:48	4° $\underline{\mathcal{A}}$ 13'38	1.32269 AU
evening max el	7479 Nov 15 03:01	23° $\mathcal{X}$ 45'55	27°24'31	evening rise	7480 Sep 25 02:56	16° $\underline{\mathcal{A}}$ 42'44	
	7479 Nov 23 21:14	0° $\mathcal{Z}$			7480 Oct 01 21:04	0° $\mathcal{M}$	
retrograde	7479 Nov 28 17:02	1° $\mathcal{Z}$ 04'35		desc. node	7480 Oct 12 02:49	17° $\mathcal{M}$ 19'14	
	7479 Dec 03 05:43	30° $\mathcal{R}$ $\mathcal{X}$			7480 Oct 21 09:03	0° $\mathcal{X}$	
evening set	7479 Dec 05 16:46	28° $\mathcal{X}$ 29'23		evening max el	7480 Oct 27 12:34	6° $\mathcal{X}$ 38'28	27°24'44
min. Earth dist.	7479 Dec 09 11:38	25° $\mathcal{X}$ 05'33	0.64155 AU	retrograde	7480 Nov 10 07:28	13° $\mathcal{X}$ 52'45	
inferior conj	7479 Dec 11 22:58	22° $\mathcal{X}$ 30'09	-2°02'38	evening set	7480 Nov 17 10:33	11° $\mathcal{X}$ 28'09	
minimum elong	7479 Dec 12 02:43	22° $\mathcal{X}$ 20'17	2°01'01	min. Earth dist.	7480 Nov 21 02:31	8° $\mathcal{X}$ 32'40	0.62315 AU
asc. node	7479 Dec 18 02:37	17° $\mathcal{X}$ 19'59		inferior conj	7480 Nov 24 00:23	5° $\mathcal{X}$ 49'41	-3°10'52
morning rise	7479 Dec 18 14:15	17° $\mathcal{X}$ 06'54		minimum elong	7480 Nov 24 06:15	5° $\mathcal{X}$ 35'57	3°08'43
direct	7479 Dec 21 01:53	16° $\mathcal{X}$ 35'46		morning rise	7480 Dec 01 03:57	0° $\mathcal{X}$ 44'23	
morning max el	7479 Dec 27 13:30	19° $\mathcal{X}$ 59'07	17°51'47	direct	7480 Dec 03 10:59	0° $\mathcal{X}$ 20'54	
	7480 Jan 04 02:02	0° $\mathcal{Z}$		asc. node	7480 Dec 03 23:39	0° $\mathcal{X}$ 22'11	
morning set	7480 Jan 13 10:49	15° $\mathcal{Z}$ 35'10		morning max el	7480 Dec 10 06:12	3° $\mathcal{X}$ 48'47	17°49'28
desc. node	7480 Jan 22 05:00	0° $\approx$ 16'43		morning set	7480 Dec 26 03:26	28° $\mathcal{X}$ 30'30	
	7480 Jan 22 00:57	0° $\approx$			7480 Dec 26 23:30	0° $\mathcal{Z}$	
superior conj	7480 Jan 26 13:18	7° $\approx$ 22'38	-0°30'52	superior conj	7481 Jan 06 09:02	18° $\mathcal{Z}$ 08'41	0°12'25
minimum elong	7480 Jan 26 09:47	7° $\approx$ 08'23	0°30'17	minimum elong	7481 Jan 06 10:13	18° $\mathcal{Z}$ 13'40	0°12'20
max. Earth dist.	7480 Jan 31 17:59	15° $\approx$ 41'32	1.44811 AU	behind sun begin	7481 Jan 06 04:31	17° $\mathcal{Z}$ 49'31	
	7480 Feb 09 21:58	0° $\mathcal{H}$		behind sun end	7481 Jan 06 15:55	18° $\mathcal{Z}$ 37'47	
evening rise	7480 Feb 11 10:45	2° $\mathcal{H}$ 21'25		desc. node	7481 Jan 08 01:59	21° $\mathcal{Z}$ 01'04	
	7480 Mar 01 00:10	0° $\Upsilon$		max. Earth dist.	7481 Jan 13 10:19	29° $\mathcal{Z}$ 49'26	1.43523 AU
evening max el	7480 Mar 10 01:16	11° $\Upsilon$ 20'00	20°19'34		7481 Jan 13 12:56	0° $\approx$	
asc. node	7480 Mar 15 01:45	15° $\Upsilon$ 13'39		evening rise	7481 Jan 20 23:55	11° $\approx$ 49'22	
retrograde	7480 Mar 17 22:54	15° $\Upsilon$ 56'24			7481 Feb 02 00:43	0° $\mathcal{H}$	
evening set	7480 Mar 21 20:35	14° $\Upsilon$ 28'20		evening max el	7481 Feb 20 22:50	24° $\mathcal{H}$ 58'12	21°29'45
inferior conj	7480 Mar 27 04:41	8° $\Upsilon$ 23'01	3°07'51		7481 Feb 28 03:01	0° $\Upsilon$	
minimum elong	7480 Mar 27 02:57	8° $\Upsilon$ 28'57	3°07'33	retrograde	7481 Mar 01 20:56	0° $\Upsilon$ 15'07	
min. Earth dist.	7480 Mar 27 22:36	7° $\Upsilon$ 22'02	0.67648 AU	asc. node	7481 Mar 01 22:48	0° $\Upsilon$ 15'05	
morning rise	7480 Apr 01 09:06	2° $\Upsilon$ 07'24			7481 Mar 03 13:14	30° $\mathcal{R}$ $\mathcal{H}$	
	7480 Apr 04 17:18	30° $\mathcal{R}$ $\mathcal{H}$		evening set	7481 Mar 06 04:36	28° $\mathcal{H}$ 31'50	
direct	7480 Apr 07 01:30	29° $\mathcal{H}$ 35'16		inferior conj	7481 Mar 11 12:10	22° $\mathcal{H}$ 15'25	2°42'45

minimum elong	7481 Mar 11 09:57	22° $\text{H}$ 23'07	2°42'14	morning rise	7482 Mar 01 00:55	0° $\text{H}$ 05'52	
min. Earth dist.	7481 Mar 11 17:06	21° $\text{H}$ 58'15	0.68202 AU		7482 Mar 01 03:47	30° $\text{R}$ $\approx$	
morning rise	7481 Mar 16 15:08	16° $\text{H}$ 02'47		direct	7482 Mar 05 13:05	28° $\approx$ 14'54	
direct	7481 Mar 21 17:28	13° $\text{H}$ 49'45			7482 Mar 10 09:44	0° $\text{H}$	
morning max el	7481 Mar 31 21:14	19° $\text{H}$ 51'01	23°03'31	morning max el	7482 Mar 14 10:46	3° $\text{H}$ 25'43	21°37'00
desc. node	7481 Apr 06 01:30	25° $\text{H}$ 39'45		desc. node	7482 Mar 23 22:28	14° $\text{H}$ 53'38	
	7481 Apr 09 11:46	0° $\text{Y}$			7482 Apr 03 12:33	0° $\text{Y}$	
	7481 Apr 29 23:09	0° $\text{B}$		morning set	7482 Apr 15 11:43	18° $\text{Y}$ 24'16	
morning set	7481 May 05 12:13	9° $\text{B}$ 01'53		max. Earth dist.	7482 Apr 21 20:14	28° $\text{Y}$ 42'36	1.41870 AU
max. Earth dist.	7481 May 09 20:08	16° $\text{B}$ 22'16	1.39717 AU		7482 Apr 22 14:54	0° $\text{B}$	
	7481 May 17 11:42	0° $\text{II}$					
superior conj	7481 May 17 12:55	0° $\text{II}$ 05'34	-1°36'33	superior conj	7482 Apr 29 09:55	11° $\text{B}$ 33'21	-1°59'38
minimum elong	7481 May 17 18:23	0° $\text{II}$ 30'44	1°35'59	minimum elong	7482 Apr 29 14:57	11° $\text{B}$ 55'20	1°59'21
evening rise	7481 May 27 04:23	18° $\text{II}$ 19'52		evening rise	7482 May 09 16:40	0° $\text{II}$	
asc. node	7481 May 28 21:55	21° $\text{II}$ 38'08		asc. node	7482 May 10 09:20	1° $\text{II}$ 16'20	
	7481 Jun 02 10:10	0° $\text{E}$		evening max el	7482 May 15 18:59	11° $\text{II}$ 03'46	
evening max el	7481 Jun 12 07:09	14° $\text{E}$ 17'13	18°32'49		7482 May 26 16:41	27° $\text{II}$ 05'48	18°10'01
retrograde	7481 Jun 20 02:06	18° $\text{E}$ 09'28		retrograde	7482 May 30 19:14	0° $\text{E}$	
evening set	7481 Jun 22 05:31	17° $\text{E}$ 52'50		evening set	7482 Jun 02 13:53	0° $\text{E}$ 34'33	
inferior conj	7481 Jun 29 22:18	13° $\text{E}$ 24'17	0°54'30		7482 Jun 05 00:45	0° $\text{E}$ 08'35	
minimum elong	7481 Jun 30 00:13	13° $\text{E}$ 20'33	0°53'44	inferior conj	7482 Jun 05 10:00	30° $\text{R}$ $\text{II}$	
desc. node	7481 Jul 03 00:52	10° $\text{E}$ 59'58		minimum elong	7482 Jun 11 23:03	25° $\text{II}$ 19'45	2°09'00
min. Earth dist.	7481 Jul 03 06:30	10° $\text{E}$ 49'31	0.57772 AU	min. Earth dist.	7482 Jun 12 02:12	25° $\text{II}$ 12'35	2°08'01
morning rise	7481 Jul 07 15:29	8° $\text{E}$ 05'01		morning rise	7482 Jun 15 07:22	22° $\text{II}$ 19'07	0.59949 AU
direct	7481 Jul 13 11:45	6° $\text{E}$ 38'19		desc. node	7482 Jun 19 00:50	19° $\text{II}$ 32'18	
morning max el	7481 Jul 27 21:05	14° $\text{E}$ 15'55	26°49'12	direct	7482 Jun 19 21:53	19° $\text{II}$ 02'18	
	7481 Aug 09 10:57	0° $\text{O}$		morning max el	7482 Jun 25 12:09	17° $\text{II}$ 32'54	
asc. node	7481 Aug 24 21:17	27° $\text{O}$ 38'35			7482 Jul 09 20:39	25° $\text{II}$ 27'24	27°40'46
	7481 Aug 26 00:26	0° $\text{np}$			7482 Jul 14 01:27	0° $\text{E}$	
morning set	7481 Aug 26 13:20	1° $\text{np}$ 08'00		morning set	7482 Aug 02 20:59	0° $\text{O}$	
				asc. node	7482 Aug 10 19:47	15° $\text{O}$ 36'48	
superior conj	7481 Sep 02 12:24	16° $\text{np}$ 19'47	1°18'22	max. Earth dist.	7482 Aug 11 18:18	17° $\text{O}$ 34'54	
minimum elong	7481 Sep 02 10:11	16° $\text{np}$ 07'28	1°18'01		7482 Aug 17 02:39	29° $\text{O}$ 09'51	1.31757 AU
max. Earth dist.	7481 Sep 02 16:26	16° $\text{np}$ 42'08	1.31787 AU		7482 Aug 17 11:45	0° $\text{np}$	
	7481 Sep 08 18:27	0° $\text{A}$		superior conj	7482 Aug 17 23:55	1° $\text{np}$ 07'15	1°00'13
evening rise	7481 Sep 09 08:33	1° $\text{A}$ 14'51		minimum elong	7482 Aug 17 21:44	0° $\text{np}$ 55'14	0°59'47
	7481 Sep 24 21:31	0° $\text{M}$		evening rise	7482 Aug 24 18:07	15° $\text{np}$ 55'59	
desc. node	7481 Sep 28 23:54	6° $\text{M}$ 05'53			7482 Aug 31 16:44	0° $\text{A}$	
evening max el	7481 Oct 09 16:26	18° $\text{M}$ 47'27	26°51'40	desc. node	7482 Sep 15 20:58	23° $\text{A}$ 54'17	
retrograde	7481 Oct 23 14:06	25° $\text{M}$ 56'55			7482 Sep 21 10:02	0° $\text{M}$	
evening set	7481 Oct 30 11:55	23° $\text{M}$ 54'13		evening max el	7482 Sep 21 12:43	0° $\text{M}$ 06'23	25°46'04
min. Earth dist.	7481 Nov 03 06:36	21° $\text{M}$ 16'40	0.60263 AU	retrograde	7482 Oct 05 11:20	7° $\text{M}$ 10'31	
inferior conj	7481 Nov 06 11:10	18° $\text{M}$ 39'59	-4°15'58	evening set	7482 Oct 11 15:54	5° $\text{M}$ 40'21	
minimum elong	7481 Nov 06 18:13	18° $\text{M}$ 25'31	4°13'59	min. Earth dist.	7482 Oct 16 01:11	3° $\text{M}$ 04'13	0.58190 AU
morning rise	7481 Nov 14 02:49	13° $\text{M}$ 55'55		inferior conj	7482 Oct 19 03:53	0° $\text{M}$ 51'19	-5°07'54
direct	7481 Nov 16 08:30	13° $\text{M}$ 36'52		minimum elong	7482 Oct 19 09:32	0° $\text{M}$ 41'14	5°06'59
asc. node	7481 Nov 20 20:42	14° $\text{M}$ 58'18			7482 Oct 20 08:56	30° $\text{R}$ $\text{A}$	
morning max el	7481 Nov 23 19:21	17° $\text{M}$ 18'13	18°06'09	morning rise	7482 Oct 27 05:31	26° $\text{A}$ 29'58	
	7481 Dec 02 19:40	0° $\text{A}$		direct	7482 Oct 29 14:03	26° $\text{A}$ 12'22	
morning set	7481 Dec 09 12:11	12° $\text{A}$ 11'06			7482 Nov 06 18:08	0° $\text{M}$	
				morning max el	7482 Nov 07 01:16	0° $\text{M}$ 16'49	18°43'22
superior conj	7481 Dec 19 05:57	0° $\text{B}$ 07'18	0°48'06	asc. node	7482 Nov 07 17:44	0° $\text{M}$ 57'53	
minimum elong	7481 Dec 19 09:17	0° $\text{B}$ 22'07	0°47'43	morning set	7482 Nov 23 08:04	26° $\text{M}$ 22'10	
	7481 Dec 19 04:19	0° $\text{B}$			7482 Nov 25 04:41	0° $\text{A}$	
desc. node	7481 Dec 25 23:00	11° $\text{B}$ 47'11		superior conj	7482 Dec 01 23:24	13° $\text{A}$ 04'20	1°14'20
max. Earth dist.	7481 Dec 26 21:34	13° $\text{B}$ 22'08	1.41720 AU	minimum elong	7482 Dec 02 02:47	13° $\text{A}$ 20'16	1°14'02
evening rise	7482 Jan 01 03:36	21° $\text{B}$ 59'41		max. Earth dist.	7482 Dec 09 04:12	26° $\text{A}$ 11'49	1.39623 AU
	7482 Jan 06 05:14	0° $\approx$			7482 Dec 11 08:40	0° $\text{B}$	
	7482 Jan 27 04:35	0° $\text{H}$		desc. node	7482 Dec 12 20:02	2° $\text{B}$ 31'00	
evening max el	7482 Feb 03 15:41	8° $\text{H}$ 38'41	22°47'43	evening rise	7482 Dec 13 04:49	3° $\text{B}$ 08'10	
retrograde	7482 Feb 13 17:01	14° $\text{H}$ 36'44			7482 Dec 30 10:44	0° $\approx$	
asc. node	7482 Feb 16 19:53	13° $\text{H}$ 47'27		evening max el	7483 Jan 17 05:44	22° $\approx$ 22'45	24°07'47
evening set	7482 Feb 18 11:56	12° $\text{H}$ 38'25		retrograde	7483 Jan 28 09:42	28° $\approx$ 56'15	
inferior conj	7482 Feb 23 20:44	6° $\text{H}$ 14'13	2°08'37	evening set	7483 Feb 02 16:59	26° $\approx$ 43'42	
minimum elong	7482 Feb 23 18:29	6° $\text{H}$ 22'02	2°07'58	asc. node	7483 Feb 03 16:57	25° $\approx$ 48'09	
min. Earth dist.	7482 Feb 23 13:46	6° $\text{H}$ 38'23	0.68338 AU				

min. Earth dist.	7483 Feb 07 10:12	21° $\approx$ 17'43	0.68082 AU	min. Earth dist.	7484 Jan 22 04:06	5° $\approx$ 52'30	0.67450 AU
inferior conj	7483 Feb 08 04:31	20° $\approx$ 15'49	1°26'14	inferior conj	7484 Jan 23 09:39	4° $\approx$ 17'06	0°36'12
minimum elong	7483 Feb 08 02:41	20° $\approx$ 21'59	1°25'38	minimum elong	7484 Jan 23 08:46	4° $\approx$ 19'58	0°35'55
morning rise	7483 Feb 13 12:27	14° $\approx$ 13'20			7484 Jan 27 00:43	30° $\approx$ 30	
direct	7483 Feb 17 11:12	12° $\approx$ 44'38		morning rise	7484 Jan 28 23:42	28° $\approx$ 22'27	
morning max el	7483 Feb 25 07:10	17° $\approx$ 11'28	20°20'22	direct	7484 Feb 01 10:19	27° $\approx$ 14'15	
	7483 Mar 07 13:30	0° $\approx$			7484 Feb 07 06:09	0° $\approx$	
desc. node	7483 Mar 10 19:27	4° $\approx$ 38'19		morning max el	7484 Feb 08 11:33	1° $\approx$ 08'25	19°17'48
morning set	7483 Mar 25 12:47	26° $\approx$ 47'41		greatest brilliancy	7484 Feb 21 15:25	18° $\approx$ 38'25	-0.7m
	7483 Mar 27 14:20	0° $\approx$		desc. node	7484 Feb 25 16:26	24° $\approx$ 45'35	
max. Earth dist.	7483 Apr 04 03:31	11° $\approx$ 56'06	1.43677 AU		7484 Feb 29 02:28	0° $\approx$	
				morning set	7484 Mar 03 12:18	5° $\approx$ 15'30	
superior conj	7483 Apr 10 06:56	21° $\approx$ 56'26	-2°10'58	max. Earth dist.	7484 Mar 16 17:53	25° $\approx$ 53'32	1.44920 AU
minimum elong	7483 Apr 10 08:04	22° $\approx$ 01'04	2°10'59		7484 Mar 19 08:12	0° $\approx$	
	7483 Apr 15 02:31	0° $\approx$					
evening rise	7483 Apr 22 21:19	13° $\approx$ 24'19		superior conj	7484 Mar 20 03:38	1° $\approx$ 17'14	-2°04'37
asc. node	7483 May 02 16:02	0° $\approx$ 05'36		minimum elong	7484 Mar 19 21:56	0° $\approx$ 54'34	2°04'21
	7483 May 02 14:38	0° $\approx$		evening rise	7484 Apr 03 11:59	24° $\approx$ 36'08	
evening max el	7483 May 10 05:33	10° $\approx$ 16'53	18°06'40		7484 Apr 06 18:04	0° $\approx$	
retrograde	7483 May 16 16:10	13° $\approx$ 37'43		asc. node	7484 Apr 18 13:05	18° $\approx$ 35'51	
evening set	7483 May 19 10:21	12° $\approx$ 59'57		evening max el	7484 Apr 22 18:31	23° $\approx$ 41'53	18°21'54
inferior conj	7483 May 25 17:49	7° $\approx$ 51'30	2°55'47	retrograde	7484 Apr 29 04:36	27° $\approx$ 09'04	
minimum elong	7483 May 25 20:22	7° $\approx$ 44'53	2°55'13	evening set	7484 May 02 05:46	26° $\approx$ 18'06	
min. Earth dist.	7483 May 28 16:25	4° $\approx$ 49'45	0.62178 AU	inferior conj	7484 May 08 02:27	20° $\approx$ 51'22	3°19'41
morning rise	7483 Jun 01 04:36	1° $\approx$ 46'48		minimum elong	7484 May 08 03:40	20° $\approx$ 47'52	3°19'30
	7483 Jun 04 09:45	30° $\approx$ 30		min. Earth dist.	7484 May 10 10:38	18° $\approx$ 09'34	0.64205 AU
desc. node	7483 Jun 06 18:54	29° $\approx$ 24'14		morning rise	7484 May 14 00:36	14° $\approx$ 37'48	
direct	7483 Jun 07 23:05	29° $\approx$ 19'58		direct	7484 May 20 18:19	11° $\approx$ 54'29	
	7483 Jun 11 16:29	0° $\approx$		desc. node	7484 May 23 15:54	12° $\approx$ 21'09	
morning max el	7483 Jun 22 02:05	7° $\approx$ 21'41	27°54'39	morning max el	7484 Jun 03 11:16	19° $\approx$ 53'29	27°31'50
	7483 Jul 09 08:29	0° $\approx$			7484 Jun 12 02:26	0° $\approx$	
morning set	7483 Jul 25 20:49	29° $\approx$ 47'16			7484 Jul 01 09:16	0° $\approx$	
	7483 Jul 25 23:19	0° $\approx$		morning set	7484 Jul 08 13:53	13° $\approx$ 31'23	
asc. node	7483 Jul 29 15:20	7° $\approx$ 38'45		max. Earth dist.	7484 Jul 13 09:45	23° $\approx$ 19'15	1.33084 AU
max. Earth dist.	7483 Jul 31 09:43	11° $\approx$ 25'56	1.32184 AU	asc. node	7484 Jul 15 12:19	27° $\approx$ 45'05	
superior conj	7483 Aug 02 09:25	15° $\approx$ 45'11	0°37'42	superior conj	7484 Jul 16 14:55	0° $\approx$ 06'44	0°11'19
minimum elong	7483 Aug 02 07:48	15° $\approx$ 36'17	0°37'18	minimum elong	7484 Jul 16 14:22	0° $\approx$ 03'44	0°11'07
	7483 Aug 08 22:08	0° $\approx$		behind sun begin	7484 Jul 16 10:26	29° $\approx$ 42'43	
evening rise	7483 Aug 09 05:37	0° $\approx$ 40'07		behind sun end	7484 Jul 16 18:18	0° $\approx$ 24'46	
	7483 Aug 25 06:23	0° $\approx$			7484 Jul 16 13:40	0° $\approx$	
desc. node	7483 Sep 02 18:02	10° $\approx$ 21'47		evening rise	7484 Jul 23 17:06	15° $\approx$ 20'26	
evening max el	7483 Sep 03 02:12	10° $\approx$ 41'40	24°16'15		7484 Jul 31 00:26	0° $\approx$	
retrograde	7483 Sep 16 20:35	17° $\approx$ 36'11		evening max el	7484 Aug 14 14:24	20° $\approx$ 56'19	22°37'15
evening set	7483 Sep 21 19:10	16° $\approx$ 42'15		desc. node	7484 Aug 19 15:05	24° $\approx$ 57'46	
min. Earth dist.	7483 Sep 27 13:05	13° $\approx$ 49'06	0.56372 AU	retrograde	7484 Aug 27 17:10	27° $\approx$ 28'46	
inferior conj	7483 Sep 30 00:25	12° $\approx$ 16'44	-5°30'49	evening set	7484 Aug 31 03:26	27° $\approx$ 03'00	
minimum elong	7483 Sep 30 00:42	12° $\approx$ 16'18	5°30'48	min. Earth dist.	7484 Sep 07 21:47	23° $\approx$ 36'55	0.55122 AU
morning rise	7483 Oct 08 08:25	8° $\approx$ 16'12		inferior conj	7484 Sep 09 02:31	22° $\approx$ 56'07	-5°06'30
direct	7483 Oct 11 00:44	7° $\approx$ 57'11		minimum elong	7484 Sep 08 19:39	23° $\approx$ 05'53	5°05'26
morning max el	7483 Oct 20 20:27	12° $\approx$ 34'33	19°42'36	morning rise	7484 Sep 17 13:47	19° $\approx$ 07'35	
asc. node	7483 Oct 25 14:45	18° $\approx$ 06'02		direct	7484 Sep 20 17:43	18° $\approx$ 44'41	
	7483 Nov 01 21:36	0° $\approx$		morning max el	7484 Oct 02 02:51	24° $\approx$ 04'03	21°03'49
morning set	7483 Nov 07 11:27	10° $\approx$ 53'36			7484 Oct 07 08:22	0° $\approx$	
				asc. node	7484 Oct 11 11:45	6° $\approx$ 07'13	
superior conj	7483 Nov 15 08:14	26° $\approx$ 45'25	1°31'21	morning set	7484 Oct 21 19:36	25° $\approx$ 36'57	
minimum elong	7483 Nov 15 10:36	26° $\approx$ 57'07	1°31'15		7484 Oct 23 22:04	0° $\approx$	
	7483 Nov 16 23:51	0° $\approx$					
max. Earth dist.	7483 Nov 21 09:53	8° $\approx$ 25'25	1.37487 AU	superior conj	7484 Oct 29 04:03	10° $\approx$ 57'26	1°40'07
evening rise	7483 Nov 25 03:44	15° $\approx$ 14'35		minimum elong	7484 Oct 29 05:03	11° $\approx$ 02'32	1°40'10
desc. node	7483 Nov 29 17:05	23° $\approx$ 08'52		max. Earth dist.	7484 Nov 02 19:26	20° $\approx$ 19'58	1.35531 AU
	7483 Dec 03 20:49	0° $\approx$		evening rise	7484 Nov 06 21:03	28° $\approx$ 09'42	
	7483 Dec 25 02:53	0° $\approx$			7484 Nov 07 20:44	0° $\approx$	
evening max el	7483 Dec 30 18:52	6° $\approx$ 09'48	25°23'05	desc. node	7484 Nov 15 14:08	13° $\approx$ 35'35	
retrograde	7484 Jan 11 21:53	13° $\approx$ 08'56			7484 Nov 26 03:39	0° $\approx$	
evening set	7484 Jan 17 18:10	10° $\approx$ 43'56		evening max el	7484 Dec 12 07:58	19° $\approx$ 54'17	26°26'27
asc. node	7484 Jan 21 14:00	6° $\approx$ 37'10		retrograde	7484 Dec 25 04:51	27° $\approx$ 08'31	

evening set	7484 Dec 31 13:43	24° $\text{♁}$ 34'25		7485 Nov 21 11:57	0° $\text{♁}$	
min. Earth dist.	7485 Jan 04 17:05	20° $\text{♁}$ 17'59	0.66444 AU	evening max el	7485 Nov 24 20:48	3° $\text{♁}$ 27'24 27°10'34
inferior conj	7485 Jan 06 10:11	18° $\text{♁}$ 13'53	-0°20'56	retrograde	7485 Dec 08 06:06	10° $\text{♁}$ 47'17
minimum elong	7485 Jan 06 10:45	18° $\text{♁}$ 12'09	0°20'37	evening set	7485 Dec 15 01:30	8° $\text{♁}$ 09'54
asc. node	7485 Jan 07 11:01	16° $\text{♁}$ 59'35		min. Earth dist.	7485 Dec 18 23:00	4° $\text{♁}$ 27'45 0.65081 AU
morning rise	7485 Jan 12 08:33	12° $\text{♁}$ 29'26		inferior conj	7485 Dec 21 03:51	2° $\text{♁}$ 01'09 -1°24'12
direct	7485 Jan 15 08:38	11° $\text{♁}$ 38'41		minimum elong	7485 Dec 21 06:21	1° $\text{♁}$ 54'12 1°23'03
morning max el	7485 Jan 21 22:49	15° $\text{♁}$ 12'33	18°31'13		7485 Dec 23 00:45	30° $\text{♁}$ 27
	7485 Feb 01 22:28	0° $\text{♁}$		asc. node	7485 Dec 25 08:04	27° $\text{♁}$ 52'37
morning set	7485 Feb 11 09:13	14° $\text{♁}$ 52'30		morning rise	7485 Dec 27 12:32	26° $\text{♁}$ 29'34
desc. node	7485 Feb 11 13:26	15° $\text{♁}$ 09'11		direct	7485 Dec 30 03:59	25° $\text{♁}$ 52'29
	7485 Feb 20 23:11	0° $\text{♁}$		morning max el	7486 Jan 05 14:35	29° $\text{♁}$ 17'02 18°01'17
					7486 Jan 06 07:17	0° $\text{♁}$
superior conj	7485 Feb 27 09:06	10° $\text{♁}$ 03'17	-1°38'12	morning set	7486 Jan 23 11:40	25° $\text{♁}$ 57'29
minimum elong	7485 Feb 26 23:30	9° $\text{♁}$ 25'41	1°37'16		7486 Jan 25 22:28	0° $\text{♁}$
max. Earth dist.	7485 Feb 27 12:39	10° $\text{♁}$ 17'10	1.45457 AU	desc. node	7486 Jan 29 10:25	5° $\text{♁}$ 43'48
	7485 Mar 12 01:41	0° $\text{♁}$				
evening rise	7485 Mar 15 03:17	4° $\text{♁}$ 51'26		superior conj	7486 Feb 06 17:56	19° $\text{♁}$ 05'45 -0°57'05
greatest brilliancy	7485 Mar 24 05:10	19° $\text{♁}$ 13'35	-0.8m	minimum elong	7486 Feb 06 11:13	18° $\text{♁}$ 39'05 0°56'08
	7485 Mar 31 08:52	0° $\text{♁}$		max. Earth dist.	7486 Feb 10 08:14	24° $\text{♁}$ 46'28 1.45247 AU
asc. node	7485 Apr 05 10:07	6° $\text{♁}$ 25'03			7486 Feb 13 16:18	0° $\text{♁}$
evening max el	7485 Apr 06 05:01	7° $\text{♁}$ 14'44	18°54'56	evening rise	7486 Feb 22 22:36	14° $\text{♁}$ 22'11
retrograde	7485 Apr 12 23:17	11° $\text{♁}$ 01'02			7486 Mar 05 03:29	0° $\text{♁}$
evening set	7485 Apr 16 07:41	9° $\text{♁}$ 56'08		greatest brilliancy	7486 Mar 08 17:01	5° $\text{♁}$ 20'23 -0.7m
inferior conj	7485 Apr 21 21:12	4° $\text{♁}$ 12'48	3°25'43	evening max el	7486 Mar 20 11:05	20° $\text{♁}$ 50'34 19°44'29
minimum elong	7485 Apr 21 21:02	4° $\text{♁}$ 13'19	3°25'39	asc. node	7486 Mar 23 07:10	23° $\text{♁}$ 20'25
min. Earth dist.	7485 Apr 23 13:54	2° $\text{♁}$ 05'01	0.65876 AU	retrograde	7486 Mar 27 21:05	25° $\text{♁}$ 06'42
	7485 Apr 25 08:14	30° $\text{♁}$ 27		evening set	7486 Mar 31 13:30	23° $\text{♁}$ 47'21
morning rise	7485 Apr 27 09:54	27° $\text{♁}$ 55'49		inferior conj	7486 Apr 05 22:51	17° $\text{♁}$ 49'23 3°17'44
direct	7485 May 03 20:38	25° $\text{♁}$ 08'25		minimum elong	7486 Apr 05 21:35	17° $\text{♁}$ 53'38 3°17'34
desc. node	7485 May 10 12:53	27° $\text{♁}$ 29'31		min. Earth dist.	7486 Apr 07 00:45	16° $\text{♁}$ 23'02 0.67125 AU
	7485 May 13 20:10	0° $\text{♁}$		morning rise	7486 Apr 11 05:23	11° $\text{♁}$ 32'26
morning max el	7485 May 16 21:45	2° $\text{♁}$ 52'48	26°38'13	direct	7486 Apr 17 05:09	8° $\text{♁}$ 52'03
	7485 Jun 06 08:42	0° $\text{♁}$		desc. node	7486 Apr 27 09:54	14° $\text{♁}$ 16'36
morning set	7485 Jun 21 19:50	26° $\text{♁}$ 40'42		morning max el	7486 Apr 29 07:27	16° $\text{♁}$ 06'51 25°22'35
	7485 Jun 23 13:31	0° $\text{♁}$			7486 May 10 18:51	0° $\text{♁}$
max. Earth dist.	7485 Jun 25 23:42	4° $\text{♁}$ 44'55	1.34460 AU		7486 May 30 06:44	0° $\text{♁}$
				morning set	7486 Jun 04 10:24	9° $\text{♁}$ 03'07
superior conj	7485 Jun 30 14:12	14° $\text{♁}$ 05'47	-0°18'09	max. Earth dist.	7486 Jun 08 02:35	15° $\text{♁}$ 49'03 1.36281 AU
minimum elong	7485 Jun 30 15:12	14° $\text{♁}$ 11'00	0°18'01			
asc. node	7485 Jul 02 09:19	17° $\text{♁}$ 50'14		superior conj	7486 Jun 14 04:28	27° $\text{♁}$ 34'36 -0°49'20
evening rise	7485 Jul 08 02:39	29° $\text{♁}$ 51'09		minimum elong	7486 Jun 14 07:23	27° $\text{♁}$ 49'08 0°48'53
	7485 Jul 08 04:21	0° $\text{♁}$			7486 Jun 15 09:35	0° $\text{♁}$
	7485 Jul 26 00:54	0° $\text{♁}$		asc. node	7486 Jun 19 06:20	7° $\text{♁}$ 49'49
evening max el	7485 Jul 27 10:06	1° $\text{♁}$ 26'18	21°05'09	evening rise	7486 Jun 22 08:03	14° $\text{♁}$ 05'26
desc. node	7485 Aug 06 12:06	7° $\text{♁}$ 10'18			7486 Jun 30 15:36	0° $\text{♁}$
retrograde	7485 Aug 08 06:07	7° $\text{♁}$ 17'48		evening max el	7486 Jul 09 18:38	12° $\text{♁}$ 35'58 19°49'56
evening set	7485 Aug 10 12:39	7° $\text{♁}$ 05'39		retrograde	7486 Jul 19 21:57	17° $\text{♁}$ 35'22
inferior conj	7485 Aug 19 19:17	3° $\text{♁}$ 08'10	-3°48'17	evening set	7486 Jul 21 18:43	17° $\text{♁}$ 25'59
minimum elong	7485 Aug 19 10:00	3° $\text{♁}$ 21'16	3°45'34	desc. node	7486 Jul 24 09:08	16° $\text{♁}$ 43'55
min. Earth dist.	7485 Aug 20 06:58	2° $\text{♁}$ 51'41	0.54713 AU	inferior conj	7486 Jul 30 17:10	13° $\text{♁}$ 24'42 -1°55'20
	7485 Aug 25 23:10	30° $\text{♁}$ 27		minimum elong	7486 Jul 30 11:52	13° $\text{♁}$ 32'51 1°53'24
morning rise	7485 Aug 28 07:49	29° $\text{♁}$ 12'52		min. Earth dist.	7486 Aug 01 18:48	12° $\text{♁}$ 08'40 0.55262 AU
direct	7485 Sep 01 01:51	28° $\text{♁}$ 42'40		morning rise	7486 Aug 08 03:01	9° $\text{♁}$ 02'22
	7485 Sep 06 22:22	0° $\text{♁}$		direct	7486 Aug 12 15:21	8° $\text{♁}$ 17'27
morning max el	7485 Sep 13 21:59	4° $\text{♁}$ 49'21	22°42'35	morning max el	7486 Aug 26 11:11	15° $\text{♁}$ 08'16 24°28'04
asc. node	7485 Sep 28 08:45	24° $\text{♁}$ 49'06			7486 Sep 07 05:55	0° $\text{♁}$
	7485 Oct 01 03:10	0° $\text{♁}$		asc. node	7486 Sep 15 05:46	14° $\text{♁}$ 01'32
morning set	7485 Oct 06 06:24	10° $\text{♁}$ 26'19		morning set	7486 Sep 20 18:09	25° $\text{♁}$ 16'45
					7486 Sep 22 22:51	0° $\text{♁}$
superior conj	7485 Oct 13 07:27	25° $\text{♁}$ 30'31	1°41'42			
minimum elong	7485 Oct 13 07:08	25° $\text{♁}$ 28'46	1°41'44	superior conj	7486 Sep 27 15:47	10° $\text{♁}$ 16'37 1°36'59
	7485 Oct 15 10:25	0° $\text{♁}$		minimum elong	7486 Sep 27 14:25	10° $\text{♁}$ 09'08 1°36'54
max. Earth dist.	7485 Oct 16 12:30	2° $\text{♁}$ 16'08	1.33922 AU	max. Earth dist.	7486 Sep 29 13:48	14° $\text{♁}$ 26'17 1.32739 AU
evening rise	7485 Oct 21 04:51	11° $\text{♁}$ 43'55		evening rise	7486 Oct 04 23:30	25° $\text{♁}$ 47'54
	7485 Oct 31 04:53	0° $\text{♁}$			7486 Oct 07 01:47	0° $\text{♁}$
desc. node	7485 Nov 02 11:10	3° $\text{♁}$ 45'36		desc. node	7486 Oct 20 08:11	23° $\text{♁}$ 31'51

	7486 Oct 24 15:02	0°♊		max. Earth dist.	7487 Sep 12 21:22	26°♏50'27	1.32008 AU
evening max el	7486 Nov 07 08:10	16°♊38'42	27°28'35		7487 Sep 14 07:50	0°♏	
retrograde	7486 Nov 21 01:01	23°♊56'49		evening rise	7487 Sep 19 01:54	10°♏12'15	
evening set	7486 Nov 28 02:53	21°♊24'41			7487 Sep 29 08:25	0°♏	
min. Earth dist.	7486 Dec 01 19:59	18°♊13'48	0.63394 AU	desc. node	7487 Oct 07 05:15	12°♏43'56	
inferior conj	7486 Dec 04 12:07	15°♊33'25	-2°31'35	evening max el	7487 Oct 20 15:48	29°♏14'35	27°14'59
minimum elong	7486 Dec 04 16:49	15°♊21'39	2°29'41		7487 Oct 21 11:29	0°♊	
morning rise	7486 Dec 11 08:35	10°♊17'33		retrograde	7487 Nov 03 12:24	6°♊26'46	
asc. node	7486 Dec 12 05:07	10°♊01'34		evening set	7487 Nov 10 14:15	4°♊10'27	
direct	7486 Dec 13 17:46	9°♊50'15		min. Earth dist.	7487 Nov 14 06:31	1°♊23'53	0.61452 AU
morning max el	7486 Dec 20 07:54	13°♊14'47	17°48'36		7487 Nov 15 20:49	30°♏	
	7486 Dec 31 20:46	0°♊		inferior conj	7487 Nov 17 07:47	28°♏41'47	-3°39'22
morning set	7487 Jan 05 16:20	8°♊18'45		minimum elong	7487 Nov 17 14:20	28°♏27'13	3°37'10
desc. node	7487 Jan 16 07:25	26°♊25'45		morning rise	7487 Nov 24 16:35	23°♏44'53	
				direct	7487 Nov 26 22:31	23°♏23'42	
superior conj	7487 Jan 17 22:54	29°♊09'04	-0°11'53	asc. node	7487 Nov 29 02:11	23°♏43'52	
minimum elong	7487 Jan 17 21:39	29°♊03'52	0°11'36	morning max el	7487 Dec 03 23:29	26°♏56'37	17°54'07
behind sun begin	7487 Jan 17 14:59	28°♊36'24			7487 Dec 06 16:03	0°♊	
behind sun end	7487 Jan 18 04:18	29°♊31'17		morning set	7487 Dec 19 16:33	21°♊35'18	
	7487 Jan 18 11:17	0°♏			7487 Dec 24 07:53	0°♊	
max. Earth dist.	7487 Jan 24 02:00	9°♏05'14	1.44330 AU				
evening rise	7487 Feb 02 09:32	23°♏40'10		superior conj	7487 Dec 30 05:41	10°♊26'27	0°28'39
	7487 Feb 06 12:59	0°♏		minimum elong	7487 Dec 30 08:05	10°♊36'50	0°28'23
	7487 Feb 27 13:17	0°♏		desc. node	7488 Jan 03 04:25	17°♊10'53	
evening max el	7487 Mar 03 11:50	4°♏28'16	20°48'10	max. Earth dist.	7488 Jan 06 16:12	22°♊59'06	1.42809 AU
asc. node	7487 Mar 10 04:14	9°♏07'50			7488 Jan 11 00:16	0°♏	
retrograde	7487 Mar 11 19:33	9°♏21'45		evening rise	7488 Jan 13 03:30	3°♏22'52	
evening set	7487 Mar 15 21:13	7°♏47'27			7488 Jan 30 23:05	0°♏	
inferior conj	7487 Mar 21 04:52	1°♏37'09	2°58'23	evening max el	7488 Feb 14 07:22	18°♏07'31	22°02'22
minimum elong	7487 Mar 21 02:52	1°♏44'01	2°57'59	retrograde	7488 Feb 23 16:50	23°♏41'44	
min. Earth dist.	7487 Mar 21 17:12	0°♏54'39	0.67935 AU	asc. node	7488 Feb 25 01:19	23°♏32'18	
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morning rise	7487 Mar 26 08:18	25°♏22'24		inferior conj	7488 Mar 04 13:03	15°♏32'14	2°29'20
direct	7487 Mar 31 18:50	22°♏57'33		minimum elong	7488 Mar 04 10:46	15°♏40'12	2°28'44
morning max el	7487 Apr 11 16:20	29°♏28'08	23°55'06	min. Earth dist.	7488 Mar 04 12:53	15°♏32'48	0.68313 AU
	7487 Apr 12 04:47	0°♏		morning rise	7488 Mar 09 16:13	9°♏21'18	
desc. node	7487 Apr 14 06:55	2°♏15'35		direct	7488 Mar 14 12:37	7°♏17'13	
	7487 May 04 14:22	0°♏		morning max el	7488 Mar 24 03:01	12°♏56'19	22°25'51
morning set	7487 May 17 04:13	20°♏24'25		desc. node	7488 Mar 31 03:54	21°♏06'06	
max. Earth dist.	7487 May 20 22:41	26°♏59'11	1.38427 AU		7488 Apr 06 18:21	0°♏	
	7487 May 22 15:06	0°♏		morning set	7488 Apr 26 19:49	0°♏30'51	
					7488 Apr 26 12:14	0°♏	
superior conj	7487 May 28 06:14	10°♏24'55	-1°20'10	max. Earth dist.	7488 May 01 19:57	8°♏49'51	1.40660 AU
minimum elong	7487 May 28 11:01	10°♏47'32	1°19'33				
evening rise	7487 Jun 06 06:42	27°♏56'23		superior conj	7488 May 09 15:11	22°♏26'21	-1°47'23
asc. node	7487 Jun 06 03:21	27°♏39'57		minimum elong	7488 May 09 20:48	22°♏51'36	1°46'54
	7487 Jun 07 07:59	0°♏			7488 May 13 18:45	0°♏	
evening max el	7487 Jun 22 15:36	24°♏30'02	18°55'03	evening rise	7488 May 19 19:17	11°♏15'42	
retrograde	7487 Jul 01 04:08	28°♏42'23		asc. node	7488 May 23 00:24	17°♏16'11	
evening set	7487 Jul 03 03:51	28°♏29'33			7488 May 30 09:27	0°♏	
inferior conj	7487 Jul 11 08:13	24°♏12'43	-0°01'31	evening max el	7488 Jun 04 21:41	7°♏01'48	18°20'43
minimum elong	7487 Jul 11 08:09	24°♏12'50	0°01'35	retrograde	7488 Jun 12 05:43	10°♏41'47	
transit middle	7487 Jul 11 08:09	24°♏12'50	0°01'35	evening set	7488 Jun 14 12:27	10°♏21'24	
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transit end	7487 Jul 11 11:52	24°♏06'14		minimum elong	7488 Jun 21 23:43	5°♏38'20	1°28'40
desc. node	7487 Jul 11 06:12	24°♏16'17		min. Earth dist.	7488 Jun 25 06:43	2°♏55'37	0.58675 AU
min. Earth dist.	7487 Jul 14 10:11	22°♏02'30	0.56679 AU	desc. node	7488 Jun 27 03:15	1°♏33'00	
morning rise	7487 Jul 19 09:06	19°♏14'01		morning rise	7488 Jun 29 07:48	0°♏11'53	
direct	7487 Jul 24 18:31	18°♏04'36			7488 Jun 29 16:56	30°♏	
morning max el	7487 Aug 08 01:08	25°♏28'09	26°04'18	direct	7488 Jul 05 11:31	28°♏31'16	
	7487 Aug 12 06:53	0°♏			7488 Jul 11 10:42	0°♏	
	7487 Aug 31 07:31	0°♏		morning max el	7488 Jul 19 20:43	6°♏16'17	27°15'32
asc. node	7487 Sep 02 02:46	3°♏35'57			7488 Aug 06 12:57	0°♏	
morning set	7487 Sep 05 05:10	10°♏02'44		asc. node	7488 Aug 18 23:47	23°♏26'03	
				morning set	7488 Aug 19 13:49	24°♏39'40	
superior conj	7487 Sep 12 02:48	25°♏07'56	1°26'39		7488 Aug 22 01:47	0°♏	
minimum elong	7487 Sep 12 00:46	24°♏56'41	1°26'24				





































































































































































































































































superior conj	7488 Aug 26 14:40	9° $\cap$ 58'40	1°11'14	superior conj	7489 Aug 11 01:31	24° $\Omega$ 42'21	0°51'10
minimum elong	7488 Aug 26 12:25	9° $\cap$ 46'07	1°10'51	minimum elong	7489 Aug 10 23:31	24° $\Omega$ 31'18	0°50'44
max. Earth dist.	7488 Aug 26 07:55	9° $\cap$ 21'13	1.31727 AU		7489 Aug 13 11:06	0° $\cap$	
evening rise	7488 Sep 02 09:31	24° $\cap$ 49'37		evening rise	7489 Aug 17 20:08	9° $\cap$ 32'31	
	7488 Sep 04 20:54	0° $\Omega$			7489 Aug 28 06:33	0° $\Omega$	
	7488 Sep 22 06:18	0° $\cap$		desc. node	7489 Sep 09 23:21	18° $\Omega$ 25'01	
desc. node	7488 Sep 23 02:18	1° $\cap$ 08'08		evening max el	7489 Sep 13 09:41	22° $\Omega$ 00'56	25°09'52
evening max el	7488 Oct 01 16:50	11° $\cap$ 03'20	26°27'25	retrograde	7489 Sep 27 07:01	29° $\Omega$ 01'53	
retrograde	7488 Oct 15 14:51	18° $\cap$ 09'36		evening set	7489 Oct 03 00:35	27° $\Omega$ 46'58	
evening set	7488 Oct 22 07:04	16° $\cap$ 19'52		min. Earth dist.	7489 Oct 07 21:12	25° $\Omega$ 06'03	0.57374 AU
min. Earth dist.	7488 Oct 26 06:17	13° $\cap$ 45'09	0.59378 AU	inferior conj	7489 Oct 10 19:26	23° $\Omega$ 08'27	-5°22'16
inferior conj	7488 Oct 29 11:17	11° $\cap$ 16'45	-4°40'22	minimum elong	7489 Oct 10 23:18	23° $\Omega$ 01'58	5°21'52
minimum elong	7488 Oct 29 18:10	11° $\cap$ 03'26	4°38'46	morning rise	7489 Oct 19 00:18	18° $\Omega$ 56'52	
morning rise	7488 Nov 06 07:31	6° $\cap$ 41'57		direct	7489 Oct 21 11:44	18° $\Omega$ 38'56	
direct	7488 Nov 08 14:00	6° $\cap$ 23'44		morning max el	7489 Oct 30 11:37	22° $\Omega$ 55'36	19°05'52
asc. node	7488 Nov 14 23:13	8° $\cap$ 56'51		asc. node	7489 Nov 01 20:14	25° $\Omega$ 27'09	
morning max el	7488 Nov 16 09:54	10° $\cap$ 13'32	18°19'19		7489 Nov 05 05:37	0° $\cap$	
	7488 Nov 29 08:41	0° $\nearrow$		morning set	7489 Nov 16 05:58	19° $\cap$ 50'49	
morning set	7488 Dec 02 06:32	5° $\nearrow$ 30'10			7489 Nov 21 08:51	0° $\nearrow$	
superior conj	7488 Dec 11 11:56	22° $\nearrow$ 51'10	1°00'24	superior conj	7489 Nov 24 12:32	6° $\nearrow$ 08'45	1°22'37
minimum elong	7488 Dec 11 15:28	23° $\nearrow$ 07'20	1°00'02	minimum elong	7489 Nov 24 15:34	6° $\nearrow$ 23'20	1°22'24
	7488 Dec 15 11:22	0° $\Xi$		max. Earth dist.	7489 Dec 01 07:31	18° $\nearrow$ 48'23	1.38703 AU
max. Earth dist.	7488 Dec 19 01:45	6° $\Xi$ 15'14	1.40857 AU	evening rise	7489 Dec 05 02:36	25° $\nearrow$ 29'56	
desc. node	7488 Dec 20 01:26	7° $\Xi$ 55'58		desc. node	7489 Dec 06 22:27	28° $\nearrow$ 37'33	
evening rise	7488 Dec 23 15:56	13° $\Xi$ 56'37			7489 Dec 07 18:00	0° $\Xi$	
	7489 Jan 02 20:51	0° $\approx$			7489 Dec 27 12:36	0° $\approx$	
	7489 Jan 25 04:58	0° $\text{H}$		evening max el	7490 Jan 09 12:06	15° $\approx$ 34'02	24°40'47
evening max el	7489 Jan 26 22:49	1° $\text{H}$ 49'04	23°21'56	retrograde	7490 Jan 21 02:23	22° $\approx$ 20'05	
retrograde	7489 Feb 06 11:27	8° $\text{H}$ 02'34		evening set	7490 Jan 26 15:16	20° $\approx$ 01'38	
asc. node	7489 Feb 10 22:24	6° $\text{H}$ 24'20		asc. node	7490 Jan 28 19:27	17° $\approx$ 50'39	
evening set	7489 Feb 11 11:39	5° $\text{H}$ 57'53		min. Earth dist.	7490 Jan 31 05:08	14° $\approx$ 50'30	0.67856 AU
inferior conj	7489 Feb 16 21:28	29° $\approx$ 31'46	1°51'37	inferior conj	7490 Feb 01 04:19	13° $\approx$ 33'28	1°05'56
minimum elong	7489 Feb 16 19:20	29° $\approx$ 39'06	1°50'57	minimum elong	7490 Feb 01 02:50	13° $\approx$ 38'25	1°05'25
min. Earth dist.	7489 Feb 16 09:36	0° $\text{H}$ 12'34	0.68280 AU	morning rise	7490 Feb 06 14:35	7° $\approx$ 34'18	
	7489 Feb 16 13:15	30° $\text{R}$ $\approx$		direct	7490 Feb 10 07:57	6° $\approx$ 14'50	
morning rise	7489 Feb 22 02:58	23° $\approx$ 25'58		morning max el	7490 Feb 17 19:08	10° $\approx$ 26'18	19°51'58
direct	7489 Feb 26 09:21	21° $\approx$ 44'36		greatest brilliancy	7490 Mar 02 19:45	27° $\approx$ 23'58	-0.6m
morning max el	7489 Mar 06 19:12	26° $\approx$ 34'57	21°02'56	desc. node	7490 Mar 04 21:52	0° $\text{H}$ 28'49	
	7489 Mar 09 22:23	0° $\text{H}$			7490 Mar 04 14:06	0° $\text{H}$	
desc. node	7489 Mar 18 00:53	10° $\text{H}$ 33'45		morning set	7490 Mar 16 05:27	17° $\text{H}$ 38'56	
	7489 Mar 31 06:31	0° $\text{Y}$			7490 Mar 24 03:52	0° $\text{Y}$	
morning set	7489 Apr 06 08:10	9° $\text{Y}$ 22'36		max. Earth dist.	7490 Mar 27 10:05	5° $\text{Y}$ 09'24	1.44278 AU
max. Earth dist.	7489 Apr 13 23:31	21° $\text{Y}$ 35'10	1.42695 AU				
	7489 Apr 19 01:28	0° $\text{B}$		superior conj	7490 Apr 01 12:36	13° $\text{Y}$ 21'28	-2°10'43
superior conj	7489 Apr 21 02:21	3° $\text{B}$ 26'46	-2°06'15	minimum elong	7490 Apr 01 10:57	13° $\text{Y}$ 14'47	2°10'43
minimum elong	7489 Apr 21 06:14	3° $\text{B}$ 43'16	2°06'08		7490 Apr 11 13:32	0° $\text{B}$	
evening rise	7489 May 02 17:34	23° $\text{B}$ 52'34		evening rise	7490 Apr 14 21:01	5° $\text{B}$ 37'36	
	7489 May 06 03:42	0° $\text{II}$		asc. node	7490 Apr 26 18:30	25° $\text{B}$ 21'44	
asc. node	7489 May 09 21:28	6° $\text{II}$ 32'17			7490 Apr 30 01:25	0° $\text{II}$	
evening max el	7489 May 19 08:59	20° $\text{II}$ 00'27	18°06'14	evening max el	7490 May 02 22:11	3° $\text{II}$ 17'48	18°10'52
retrograde	7489 May 26 00:25	23° $\text{II}$ 24'15		retrograde	7490 May 09 07:37	6° $\text{II}$ 40'04	
evening set	7489 May 28 14:26	22° $\text{II}$ 53'27		evening set	7490 May 12 04:39	5° $\text{II}$ 56'58	
inferior conj	7489 Jun 04 05:53	17° $\text{II}$ 55'46	2°32'00	inferior conj	7490 May 18 07:04	0° $\text{II}$ 40'32	3°08'23
minimum elong	7489 Jun 04 08:56	17° $\text{II}$ 48'24	2°31'09	minimum elong	7490 May 18 09:05	0° $\text{II}$ 35'01	3°08'00
min. Earth dist.	7489 Jun 07 10:44	14° $\text{II}$ 52'02	0.60904 AU		7490 May 18 21:52	30° $\text{R}$ $\text{B}$	
morning rise	7489 Jun 11 01:04	11° $\text{II}$ 59'41		min. Earth dist.	7490 May 20 23:50	27° $\text{B}$ 44'52	0.63070 AU
desc. node	7489 Jun 14 00:17	10° $\text{II}$ 28'00		morning rise	7490 May 24 12:04	24° $\text{B}$ 30'50	
direct	7489 Jun 17 16:16	9° $\text{II}$ 47'58		direct	7490 May 31 06:56	21° $\text{B}$ 55'29	
morning max el	7489 Jul 01 23:06	17° $\text{II}$ 46'13	27°51'28	desc. node	7490 May 31 21:18	21° $\text{B}$ 56'36	
	7489 Jul 12 03:49	0° $\text{B}$			7490 Jun 14 07:24	0° $\text{II}$	
	7489 Jul 30 06:00	0° $\Omega$		morning max el	7490 Jun 14 06:41	29° $\text{B}$ 58'11	27°49'11
morning set	7489 Aug 03 18:14	9° $\Omega$ 01'21			7490 Jul 06 04:14	0° $\text{B}$	
asc. node	7489 Aug 05 20:46	13° $\Omega$ 25'51		morning set	7490 Jul 18 16:13	23° $\text{B}$ 01'32	
max. Earth dist.	7489 Aug 09 17:28	21° $\Omega$ 46'11	1.31889 AU		7490 Jul 22 01:46	0° $\Omega$	
				asc. node	7490 Jul 23 17:46	3° $\Omega$ 31'01	
				max. Earth dist.	7490 Jul 23 21:59	3° $\Omega$ 53'26	1.32507 AU

superior conj	7490 Jul 26 09:33	9°♎13'40	0°26'56	morning set	7491 Jul 02 05:01	6°♊32'09	
minimum elong	7490 Jul 26 08:19	9°♎06'58	0°26'36	max. Earth dist.	7491 Jul 06 17:42	15°♊33'26	1.33603 AU
evening rise	7490 Aug 02 07:49	24°♎15'13					
	7490 Aug 05 01:32	0°♏		superior conj	7491 Jul 10 12:44	23°♊26'39	-0°00'52
	7490 Aug 23 14:32	0°♏		minimum elong	7491 Jul 10 12:47	23°♊26'54	0°00'57
evening max el	7490 Aug 25 21:24	2°♏22'30	23°34'08	behind sun begin	7491 Jul 10 07:13	22°♊57'35	
desc. node	7490 Aug 27 20:24	4°♏08'56		behind sun end	7491 Jul 10 18:20	23°♊56'15	
retrograde	7490 Sep 08 11:17	9°♏10'35		asc. node	7491 Jul 10 14:47	23°♊37'30	
evening set	7490 Sep 12 18:15	8°♏30'16			7491 Jul 13 14:44	0°♎	
min. Earth dist.	7490 Sep 19 07:20	5°♏24'34	0.55751 AU	evening rise	7491 Jul 17 18:42	8°♎52'02	
inferior conj	7490 Sep 21 07:29	4°♏12'55	-5°27'10		7491 Jul 28 20:26	0°♏	
minimum elong	7490 Sep 21 04:36	4°♏17'14	5°26'59	evening max el	7491 Aug 07 12:00	12°♏40'46	21°56'38
morning rise	7490 Sep 29 17:11	0°♏19'19		desc. node	7491 Aug 14 17:27	17°♏48'10	
	7490 Oct 01 23:54	30°♏♏		retrograde	7491 Aug 20 03:47	18°♏57'45	
direct	7490 Oct 02 13:51	29°♏59'09		evening set	7491 Aug 23 00:02	18°♏39'41	
	7490 Oct 03 03:43	0°♏		min. Earth dist.	7491 Aug 31 16:21	14°♏55'12	0.54830 AU
morning max el	7490 Oct 13 01:34	4°♏53'32	20°14'39	inferior conj	7491 Sep 01 04:14	14°♏38'33	-4°39'28
asc. node	7490 Oct 19 17:13	12°♏59'22		minimum elong	7491 Aug 31 19:26	14°♏50'52	4°37'33
	7490 Oct 29 06:41	0°♏		morning rise	7491 Sep 09 16:13	10°♏49'20	
morning set	7490 Oct 31 11:37	4°♏27'43		direct	7491 Sep 13 01:43	10°♏23'52	
				morning max el	7491 Sep 25 02:49	16°♏03'51	21°44'03
superior conj	7490 Nov 08 02:31	20°♏04'24	1°36'01		7491 Oct 05 19:14	0°♏	
minimum elong	7490 Nov 08 04:18	20°♏13'26	1°35'59	asc. node	7491 Oct 06 14:13	1°♏19'46	
	7490 Nov 13 03:30	0°♏		morning set	7491 Oct 15 21:10	19°♏14'45	
max. Earth dist.	7490 Nov 13 13:48	0°♏49'16	1.36614 AU		7491 Oct 20 23:16	0°♏	
evening rise	7490 Nov 17 09:47	7°♏58'10					
desc. node	7490 Nov 23 19:27	19°♏11'02		superior conj	7491 Oct 23 01:58	4°♏27'00	1°41'37
	7490 Nov 30 12:12	0°♏		minimum elong	7491 Oct 23 02:22	4°♏29'08	1°41'39
evening max el	7490 Dec 23 00:59	29°♏20'10	25°51'58	max. Earth dist.	7491 Oct 27 02:12	12°♏42'26	1.34801 AU
	7490 Dec 23 17:37	0°♏		evening rise	7491 Oct 31 09:51	21°♏12'09	
retrograde	7491 Jan 04 12:36	6°♏27'56			7491 Nov 05 03:48	0°♏	
evening set	7491 Jan 10 14:16	3°♏58'26		desc. node	7491 Nov 10 16:30	9°♏31'46	
	7491 Jan 14 08:52	30°♏♏			7491 Nov 24 09:06	0°♏	
min. Earth dist.	7491 Jan 14 21:16	29°♏21'48	0.67059 AU	evening max el	7491 Dec 05 14:14	13°♏01'54	26°48'01
asc. node	7491 Jan 15 16:29	28°♏21'28		retrograde	7491 Dec 18 17:18	20°♏19'34	
inferior conj	7491 Jan 16 07:44	27°♏33'19	0°12'46	evening set	7491 Dec 25 06:48	17°♏43'33	
minimum elong	7491 Jan 16 07:24	27°♏34'22	0°12'43	min. Earth dist.	7491 Dec 29 07:41	13°♏41'31	0.65906 AU
transit middle	7491 Jan 16 07:24	27°♏34'22	0°12'43	inferior conj	7491 Dec 31 05:40	11°♏27'09	-0°47'07
transit begin	7491 Jan 16 05:39	27°♏39'52		minimum elong	7491 Dec 31 07:00	11°♏23'14	0°46'27
transit end	7491 Jan 16 09:08	27°♏28'53		asc. node	7492 Jan 02 13:31	8°♏50'25	
morning rise	7491 Jan 22 01:04	21°♏42'39		morning rise	7492 Jan 06 08:11	5°♏47'32	
direct	7491 Jan 25 06:52	20°♏42'28		direct	7492 Jan 09 04:20	5°♏03'02	
morning max el	7491 Feb 01 02:40	24°♏27'01	18°55'58	morning max el	7492 Jan 15 16:07	8°♏31'53	18°16'18
	7491 Feb 05 20:03	0°♏			7492 Jan 30 16:49	0°♏	
desc. node	7491 Feb 19 18:50	20°♏43'27		morning set	7492 Feb 03 21:12	6°♏44'16	
morning set	7491 Feb 23 11:49	26°♏29'42		desc. node	7492 Feb 06 15:49	11°♏12'13	
	7491 Feb 25 17:46	0°♏			7492 Feb 18 11:57	0°♏	
max. Earth dist.	7491 Mar 10 02:03	19°♏17'41	1.45235 AU				
				superior conj	7492 Feb 19 05:23	1°♏08'27	-1°21'58
superior conj	7491 Mar 12 01:00	22°♏22'12	-1°55'45	minimum elong	7492 Feb 18 20:18	0°♏32'46	1°20'53
minimum elong	7491 Mar 11 16:52	21°♏50'13	1°55'11	max. Earth dist.	7492 Feb 20 21:19	3°♏45'00	1.45465 AU
	7491 Mar 16 20:48	0°♏		evening rise	7492 Mar 06 07:29	26°♏17'12	
evening rise	7491 Mar 27 01:40	16°♏24'03			7492 Mar 08 16:29	0°♏	
	7491 Apr 04 10:55	0°♏		greatest brilliancy	7492 Mar 17 14:00	13°♏48'34	-0.8m
asc. node	7491 Apr 13 15:32	13°♏35'40			7492 Mar 29 11:03	0°♏	
evening max el	7491 Apr 16 10:21	16°♏46'21	18°33'54	evening max el	7492 Mar 29 19:13	0°♏21'04	19°14'11
retrograde	7491 Apr 22 23:01	20°♏20'17		asc. node	7492 Mar 30 12:35	1°♏03'36	
evening set	7491 Apr 26 03:08	19°♏23'38		retrograde	7492 Apr 05 19:13	4°♏18'29	
inferior conj	7491 May 01 20:24	13°♏49'54	3°24'08	evening set	7492 Apr 09 06:58	3°♏07'27	
minimum elong	7491 May 01 21:00	13°♏48'05	3°24'02		7492 Apr 12 14:20	30°♏♏	
min. Earth dist.	7491 May 03 22:06	11°♏20'55	0.64964 AU	inferior conj	7492 Apr 14 18:24	27°♏17'53	3°23'49
morning rise	7491 May 07 14:07	7°♏34'16		minimum elong	7492 Apr 14 17:43	27°♏20'04	3°23'44
direct	7491 May 14 05:34	4°♏47'20		min. Earth dist.	7492 Apr 16 04:43	25°♏27'06	0.66467 AU
desc. node	7491 May 18 18:18	5°♏52'40		morning rise	7492 Apr 20 04:06	21°♏00'49	
morning max el	7491 May 27 16:37	12°♏42'32	27°12'16	direct	7492 Apr 26 10:43	18°♏15'01	
	7491 Jun 10 13:11	0°♏		desc. node	7492 May 04 15:20	21°♏46'28	
	7491 Jun 28 18:23	0°♏		morning max el	7492 May 09 02:38	25°♏48'08	26°08'04

	7492 May 12 22:57	0°♄		desc. node	7493 Apr 21 12:20	9°♁07'22	
	7492 Jun 03 02:09	0°♂			7493 May 07 22:47	0°♄	
morning set	7492 Jun 14 04:58	19°♂22'33			7493 May 26 17:02	0°♂	
max. Earth dist.	7492 Jun 18 02:35	26°♂46'51	1.35183 AU	morning set	7493 May 27 11:25	1°♂20'52	
	7492 Jun 19 18:04	0°♅		max. Earth dist.	7493 May 31 02:17	7°♂51'47	1.37170 AU
superior conj	7492 Jun 23 08:34	7°♅13'46	-0°31'15	superior conj	7493 Jun 06 18:01	20°♂27'42	-1°02'36
minimum elong	7492 Jun 23 10:21	7°♅22'55	0°31'00	minimum elong	7493 Jun 06 21:47	20°♂46'02	1°02'04
asc. node	7492 Jun 26 11:46	13°♅40'32			7493 Jun 11 13:35	0°♅	
evening rise	7492 Jul 01 02:46	23°♅16'24		asc. node	7493 Jun 13 08:49	3°♅36'59	
	7492 Jul 04 10:22	0°♎		evening rise	7493 Jun 15 05:43	7°♅22'14	
evening max el	7492 Jul 19 12:59	23°♎26'03	20°30'51		7493 Jun 27 23:42	0°♎	
retrograde	7492 Jul 30 15:49	28°♎55'15		evening max el	7493 Jul 02 03:01	4°♎54'30	19°23'58
desc. node	7492 Jul 31 14:31	28°♎53'00		retrograde	7493 Jul 11 12:53	9°♎32'47	
evening set	7492 Aug 01 16:22	28°♎45'08		evening set	7493 Jul 13 10:01	9°♎22'28	
inferior conj	7492 Aug 10 21:19	24°♎48'05	-3°02'39	desc. node	7493 Jul 18 11:34	7°♎26'24	
minimum elong	7492 Aug 10 13:10	24°♎59'50	2°59'57	inferior conj	7493 Jul 22 01:23	5°♎15'07	-1°05'20
min. Earth dist.	7492 Aug 12 02:18	24°♎06'13	0.54830 AU	minimum elong	7493 Jul 21 22:27	5°♎19'53	1°04'17
morning rise	7492 Aug 19 09:24	20°♎43'37		min. Earth dist.	7493 Jul 24 15:09	3°♎35'07	0.55775 AU
direct	7492 Aug 23 11:00	20°♎08'07		morning rise	7493 Jul 30 08:15	0°♎37'56	
morning max el	7492 Sep 05 18:24	26°♎34'09	23°27'27		7493 Aug 01 14:07	30°♐♅	
	7492 Sep 09 01:44	0°♐		direct	7493 Aug 04 05:23	29°♅44'02	
asc. node	7492 Sep 22 11:14	20°♐15'48			7493 Aug 06 20:33	0°♎	
	7492 Sep 27 09:44	0°♊		morning max el	7493 Aug 18 07:10	6°♎49'33	25°11'14
morning set	7492 Sep 29 08:37	4°♊05'19			7493 Sep 04 04:49	0°♐	
superior conj	7492 Oct 06 07:46	19°♊06'26	1°40'25	asc. node	7493 Sep 09 08:15	9°♐38'23	
minimum elong	7492 Oct 06 06:57	19°♊02'04	1°40'25	morning set	7493 Sep 13 20:16	18°♐54'28	
max. Earth dist.	7492 Oct 08 23:10	24°♊45'12	1.33371 AU		7493 Sep 18 22:43	0°♊	
	7492 Oct 11 11:28	0°♋		superior conj	7493 Sep 20 17:29	3°♊55'13	1°33'14
evening rise	7492 Oct 13 22:42	5°♋00'20		minimum elong	7493 Sep 20 15:47	3°♊45'52	1°33'06
desc. node	7492 Oct 27 13:32	29°♋32'50		max. Earth dist.	7493 Sep 22 03:39	7°♊02'20	1.32375 AU
	7492 Oct 27 20:18	0°♌		evening rise	7493 Sep 27 20:59	19°♊13'32	
evening max el	7492 Nov 17 02:55	26°♌28'05	27°21'45		7493 Oct 03 07:34	0°♋	
	7492 Nov 21 06:46	0°♍		desc. node	7493 Oct 14 10:35	19°♋05'55	
retrograde	7492 Nov 30 15:42	3°♍46'54			7493 Oct 22 03:38	0°♌	
evening set	7492 Dec 07 14:31	1°♍10'51		evening max el	7493 Oct 30 12:55	9°♌25'22	27°26'46
	7492 Dec 09 01:10	30°♐♌		retrograde	7493 Nov 13 07:20	16°♌40'52	
min. Earth dist.	7492 Dec 11 10:03	27°♌42'25	0.64409 AU	evening set	7493 Nov 20 10:25	14°♌13'53	
inferior conj	7492 Dec 13 19:43	25°♌09'05	-1°52'25	min. Earth dist.	7493 Nov 24 02:29	11°♌14'48	0.62600 AU
minimum elong	7492 Dec 13 23:08	24°♌59'57	1°50'55	inferior conj	7493 Nov 26 23:00	8°♌31'59	-3°00'36
asc. node	7492 Dec 19 10:35	20°♌11'49		minimum elong	7493 Nov 27 04:35	8°♌18'41	2°58'30
morning rise	7492 Dec 20 09:15	19°♌43'34		morning rise	7493 Dec 04 00:45	3°♌24'00	
direct	7492 Dec 22 21:50	19°♌10'58		direct	7493 Dec 06 08:15	2°♌59'39	
morning max el	7492 Dec 29 08:52	22°♌34'11	17°53'41	asc. node	7493 Dec 06 07:39	2°♌59'39	
	7493 Jan 04 05:17	0°♎		morning max el	7493 Dec 13 01:53	6°♌26'18	17°48'41
morning set	7493 Jan 15 11:37	18°♎24'33			7493 Dec 28 09:11	0°♎	
	7493 Jan 22 10:01	0°♏		morning set	7493 Dec 29 01:22	1°♎11'37	
desc. node	7493 Jan 23 12:50	1°♏50'28		superior conj	7494 Jan 09 13:10	21°♎07'44	0°06'16
superior conj	7493 Jan 28 21:17	10°♏32'44	-0°37'45	minimum elong	7494 Jan 09 13:47	21°♎10'19	0°06'16
minimum elong	7493 Jan 28 16:54	10°♏15'08	0°37'04	behind sun begin	7494 Jan 09 05:25	20°♎35'08	
max. Earth dist.	7493 Feb 02 17:01	18°♏14'01	1.44946 AU	behind sun end	7494 Jan 09 22:09	21°♎45'26	
	7493 Feb 10 05:40	0°♐		desc. node	7494 Jan 10 09:48	22°♎34'12	
evening rise	7493 Feb 13 21:30	5°♐38'32			7494 Jan 14 21:57	0°♏	
greatest brilliancy	7493 Feb 28 17:10	27°♐58'43	-0.6m	max. Earth dist.	7494 Jan 16 09:46	2°♏25'04	1.43748 AU
	7493 Mar 02 02:37	0°♑		evening rise	7494 Jan 24 09:34	15°♏02'31	
evening max el	7493 Mar 12 23:10	13°♑58'21	20°10'03		7494 Feb 03 06:22	0°♐	
asc. node	7493 Mar 17 09:40	17°♑32'24		evening max el	7494 Feb 23 21:29	27°♐36'04	21°18'42
retrograde	7493 Mar 20 17:33	18°♑29'16			7494 Feb 26 11:54	0°♑	
evening set	7493 Mar 24 13:52	17°♑03'23		asc. node	7494 Mar 04 06:45	2°♑46'21	
inferior conj	7493 Mar 29 22:12	10°♑59'49	3°10'47	retrograde	7494 Mar 04 15:49	2°♑47'05	
minimum elong	7493 Mar 29 20:34	11°♑05'20	3°10'32	evening set	7494 Mar 08 21:53	1°♑06'07	
min. Earth dist.	7493 Mar 30 18:06	9°♑52'22	0.67526 AU		7494 Mar 10 03:00	30°♐♐	
morning rise	7493 Apr 04 03:05	4°♑43'51		inferior conj	7494 Mar 14 05:23	24°♐51'04	2°47'11
direct	7493 Apr 09 21:25	2°♑09'27		minimum elong	7494 Mar 14 03:13	24°♐58'37	2°46'41
morning max el	7493 Apr 21 11:52	9°♑06'10	24°46'16	min. Earth dist.	7494 Mar 14 12:11	24°♐27'26	0.68144 AU

morning rise	7494 Mar 19 08:22	18° $\text{K}$ 37'48		morning max el	7495 Mar 17 09:57	6° $\text{K}$ 03'38	21°49'17
direct	7494 Mar 24 12:48	16° $\text{K}$ 21'39		desc. node	7495 Mar 26 06:19	16° $\text{K}$ 38'33	
morning max el	7494 Apr 03 21:17	22° $\text{K}$ 30'52	23°16'52		7495 Apr 04 17:58	0° $\text{Y}$	
desc. node	7494 Apr 08 09:20	27° $\text{K}$ 30'23		morning set	7495 Apr 18 22:10	21° $\text{Y}$ 44'50	
	7494 Apr 10 10:09	0° $\text{Y}$			7495 Apr 23 23:57	0° $\text{B}$	
	7494 May 01 06:45	0° $\text{B}$		max. Earth dist.	7495 Apr 24 21:06	1° $\text{B}$ 27'42	1.41566 AU
morning set	7494 May 08 18:38	12° $\text{B}$ 11'43					
max. Earth dist.	7494 May 12 22:10	19° $\text{B}$ 16'34	1.39382 AU	superior conj	7495 May 02 13:19	14° $\text{B}$ 34'33	-1°56'46
	7494 May 18 22:28	0° $\text{II}$		minimum elong	7495 May 02 18:37	14° $\text{B}$ 57'50	1°56'25
					7495 May 11 02:45	0° $\text{II}$	
superior conj	7494 May 20 13:08	2° $\text{II}$ 58'04	-1°32'25	evening rise	7495 May 13 07:31	4° $\text{II}$ 03'08	
minimum elong	7494 May 20 18:28	3° $\text{II}$ 22'48	1°31'48	asc. node	7495 May 18 02:53	12° $\text{II}$ 50'17	
evening rise	7494 May 30 00:31	21° $\text{II}$ 00'52		evening max el	7495 May 29 12:58	29° $\text{II}$ 49'38	18°12'13
asc. node	7494 May 31 05:51	23° $\text{II}$ 21'52			7495 May 29 17:15	0° $\text{E}$	
	7494 Jun 03 18:10	0° $\text{E}$		retrograde	7495 Jun 05 12:34	3° $\text{E}$ 20'41	
evening max el	7494 Jun 15 04:13	17° $\text{E}$ 05'07	18°37'55	evening set	7495 Jun 07 22:24	2° $\text{E}$ 56'14	
retrograde	7494 Jun 23 03:28	21° $\text{E}$ 02'09			7495 Jun 12 20:00	30° $\text{R}$ $\text{II}$	
evening set	7494 Jun 25 05:46	20° $\text{E}$ 46'40		inferior conj	7495 Jun 14 23:15	28° $\text{II}$ 10'30	1°59'35
inferior conj	7494 Jul 03 01:33	16° $\text{E}$ 21'16	0°40'38	minimum elong	7495 Jun 15 02:22	28° $\text{II}$ 03'34	1°58'33
minimum elong	7494 Jul 03 03:02	16° $\text{E}$ 18'26	0°40'00	min. Earth dist.	7495 Jun 18 08:20	25° $\text{II}$ 12'10	0.59614 AU
desc. node	7494 Jul 05 08:38	14° $\text{E}$ 36'26		morning rise	7495 Jun 22 03:23	22° $\text{II}$ 26'41	
min. Earth dist.	7494 Jul 06 08:40	13° $\text{E}$ 52'08	0.57474 AU	desc. node	7495 Jun 22 05:40	22° $\text{II}$ 23'20	
morning rise	7494 Jul 10 20:49	11° $\text{E}$ 06'59		direct	7495 Jun 28 13:03	20° $\text{II}$ 31'56	
direct	7494 Jul 16 14:23	9° $\text{E}$ 44'50		morning max el	7495 Jul 12 21:48	28° $\text{II}$ 24'22	27°35'25
morning max el	7494 Jul 30 23:21	17° $\text{E}$ 19'25	26°38'32		7495 Jul 14 11:12	0° $\text{E}$	
	7494 Aug 10 11:00	0° $\text{O}$			7495 Aug 04 05:51	0° $\text{O}$	
asc. node	7494 Aug 27 05:16	29° $\text{O}$ 20'12		morning set	7495 Aug 13 13:32	18° $\text{O}$ 08'24	
	7494 Aug 27 12:59	0° $\text{M}$		asc. node	7495 Aug 14 02:14	19° $\text{O}$ 15'01	
morning set	7494 Aug 29 06:30	3° $\text{M}$ 37'22			7495 Aug 19 01:40	0° $\text{M}$	
				max. Earth dist.	7495 Aug 19 23:10	1° $\text{M}$ 58'39	1.31732 AU
superior conj	7494 Sep 05 05:05	18° $\text{M}$ 47'06	1°20'42				
minimum elong	7494 Sep 05 02:54	18° $\text{M}$ 34'59	1°20'24	superior conj	7495 Aug 20 16:43	3° $\text{M}$ 35'41	1°03'16
max. Earth dist.	7494 Sep 05 12:49	19° $\text{M}$ 29'55	1.31825 AU	minimum elong	7495 Aug 20 14:30	3° $\text{M}$ 23'26	1°02'51
	7494 Sep 10 07:48	0° $\text{L}$		evening rise	7495 Aug 27 10:57	18° $\text{M}$ 24'29	
evening rise	7494 Sep 12 01:51	3° $\text{L}$ 44'03			7495 Sep 02 02:51	0° $\text{L}$	
	7494 Sep 26 02:00	0° $\text{M}$		desc. node	7495 Sep 18 04:42	25° $\text{L}$ 58'32	
desc. node	7494 Oct 01 07:38	7° $\text{M}$ 59'55			7495 Sep 21 14:00	0° $\text{M}$	
evening max el	7494 Oct 12 17:50	21° $\text{M}$ 41'53	26°58'49	evening max el	7495 Sep 24 15:25	3° $\text{M}$ 08'47	25°57'45
retrograde	7494 Oct 26 15:27	28° $\text{M}$ 52'22		retrograde	7495 Oct 08 14:04	10° $\text{M}$ 13'27	
evening set	7494 Nov 02 14:35	26° $\text{M}$ 45'45		evening set	7495 Oct 14 22:01	8° $\text{M}$ 38'06	
min. Earth dist.	7494 Nov 06 08:17	24° $\text{M}$ 06'21	0.60569 AU	min. Earth dist.	7495 Oct 19 04:13	6° $\text{M}$ 02'52	0.58490 AU
inferior conj	7494 Nov 09 12:14	21° $\text{M}$ 27'38	-4°06'41	inferior conj	7495 Oct 22 07:50	3° $\text{M}$ 45'28	-5°01'32
minimum elong	7494 Nov 09 19:13	21° $\text{M}$ 12'59	4°04'38	minimum elong	7495 Oct 22 13:56	3° $\text{M}$ 34'20	5°00'25
morning rise	7494 Nov 17 02:10	16° $\text{M}$ 40'13			7495 Oct 28 09:49	30° $\text{R}$ $\text{L}$	
direct	7494 Nov 19 07:43	16° $\text{M}$ 20'46		morning rise	7495 Oct 30 08:10	29° $\text{L}$ 20'32	
asc. node	7494 Nov 23 04:42	17° $\text{M}$ 22'14		direct	7495 Nov 01 15:59	29° $\text{L}$ 02'53	
morning max el	7494 Nov 26 15:50	19° $\text{M}$ 59'47	18°02'24		7495 Nov 05 17:18	0° $\text{M}$	
	7494 Dec 04 01:41	0° $\text{X}$		morning max el	7495 Nov 09 22:59	3° $\text{M}$ 03'22	18°36'25
morning set	7494 Dec 12 08:06	14° $\text{X}$ 46'51		asc. node	7495 Nov 10 01:42	3° $\text{M}$ 09'58	
	7494 Dec 20 15:01	0° $\text{Z}$		morning set	7495 Nov 26 02:34	28° $\text{M}$ 54'05	
					7495 Nov 26 16:10	0° $\text{X}$	
superior conj	7494 Dec 22 06:36	2° $\text{Z}$ 56'32	0°43'15				
minimum elong	7494 Dec 22 09:45	3° $\text{Z}$ 10'29	0°42'54	superior conj	7495 Dec 04 21:17	15° $\text{X}$ 45'31	1°10'57
desc. node	7494 Dec 28 06:48	13° $\text{Z}$ 20'20		minimum elong	7495 Dec 05 00:45	16° $\text{X}$ 01'43	1°10'38
max. Earth dist.	7494 Dec 29 21:40	16° $\text{Z}$ 03'22	1.42013 AU	max. Earth dist.	7495 Dec 12 04:57	28° $\text{X}$ 59'52	1.39949 AU
evening rise	7495 Jan 04 10:31	25° $\text{Z}$ 05'31			7495 Dec 12 18:46	0° $\text{Z}$	
	7495 Jan 07 13:00	0° $\text{A}$		desc. node	7495 Dec 15 03:48	4° $\text{Z}$ 04'37	
	7495 Jan 28 03:56	0° $\text{K}$		evening rise	7495 Dec 16 08:23	6° $\text{Z}$ 05'06	
evening max el	7495 Feb 06 14:59	11° $\text{K}$ 16'18	22°35'50		7495 Dec 31 15:32	0° $\text{A}$	
retrograde	7495 Feb 16 12:16	17° $\text{K}$ 08'23		evening max el	7496 Jan 20 05:22	25° $\text{A}$ 00'01	23°55'58
asc. node	7495 Feb 19 03:50	16° $\text{K}$ 32'40			7496 Jan 26 10:11	0° $\text{K}$	
evening set	7495 Feb 21 05:24	15° $\text{K}$ 12'24		retrograde	7496 Jan 31 05:26	1° $\text{K}$ 28'24	
inferior conj	7495 Feb 26 13:55	8° $\text{K}$ 49'10	2°14'23		7496 Feb 04 13:07	30° $\text{R}$ $\text{A}$	
minimum elong	7495 Feb 26 11:38	8° $\text{K}$ 57'05	2°13'43	evening set	7496 Feb 05 10:51	29° $\text{A}$ 17'57	
min. Earth dist.	7495 Feb 26 08:43	9° $\text{K}$ 07'16	0.68347 AU	asc. node	7496 Feb 06 00:53	28° $\text{A}$ 46'31	
morning rise	7495 Mar 03 17:45	2° $\text{K}$ 39'59		min. Earth dist.	7496 Feb 10 05:17	23° $\text{A}$ 46'54	0.68150 AU
direct	7495 Mar 08 08:02	0° $\text{K}$ 45'33		inferior conj	7496 Feb 10 21:54	22° $\text{A}$ 50'27	1°33'13

minimum elong	7496 Feb 10 19:59	22°  56'59	1°32'34		7497 Feb 01 13:51	30° 	
morning rise	7496 Feb 16 05:07	16°  47'01		direct	7497 Feb 03 04:51	29°  44'57	
direct	7496 Feb 20 05:52	15°  14'59			7497 Feb 04 20:54	0° 	
morning max el	7496 Feb 28 05:08	19°  47'27	20°30'55	morning max el	7497 Feb 10 08:22	3°  43'03	19°26'11
	7496 Mar 07 15:06	0° 		greatest brilliancy	7497 Feb 23 06:50	20°  47'25	-0.7m
desc. node	7496 Mar 12 03:17	6°  19'13		desc. node	7497 Feb 27 00:15	26°  23'30	
	7496 Mar 27 21:59	0° 			7497 Mar 01 09:08	0° 	
morning set	7496 Mar 28 01:37	0°  14'05		morning set	7497 Mar 06 23:46	8°  36'54	
max. Earth dist.	7496 Apr 06 03:28	14°  34'36	1.43441 AU	max. Earth dist.	7497 Mar 19 17:11	28°  27'42	1.44776 AU
					7497 Mar 20 16:31	0° 	
superior conj	7496 Apr 12 14:07	25°  07'51	-2°10'15				
minimum elong	7496 Apr 12 16:05	25°  16'03	2°10'16	superior conj	7497 Mar 23 14:09	4°  36'57	-2°06'53
	7496 Apr 15 11:45	0° 		minimum elong	7497 Mar 23 09:29	4°  18'17	2°06'43
evening rise	7496 Apr 24 22:19	16°  19'09		evening rise	7497 Apr 06 16:26	27°  40'03	
	7496 May 02 19:44	0° 			7497 Apr 08 01:57	0° 	
asc. node	7496 May 03 23:55	1°  56'17		asc. node	7497 Apr 20 20:58	20°  32'04	
evening max el	7496 May 12 01:33	12°  58'08	18°05'58	evening max el	7497 Apr 25 14:39	26°  21'26	18°18'26
retrograde	7496 May 18 13:02	16°  19'10		retrograde	7497 May 02 00:16	29°  46'59	
evening set	7496 May 21 06:10	15°  43'12		evening set	7497 May 05 00:22	28°  58'04	
inferior conj	7496 May 27 15:35	10°  37'28	2°50'16	inferior conj	7497 May 10 22:25	23°  33'51	3°17'17
minimum elong	7496 May 27 18:17	10°  30'33	2°49'37	minimum elong	7497 May 10 23:50	23°  29'46	3°17'03
min. Earth dist.	7496 May 30 15:57	7°  34'35	0.61852 AU	min. Earth dist.	7497 May 13 08:49	20°  48'01	0.63921 AU
morning rise	7496 Jun 03 04:29	4°  34'50		morning rise	7497 May 16 22:14	17°  21'03	
desc. node	7496 Jun 08 02:42	2°  21'50		direct	7497 May 23 16:23	14°  39'33	
direct	7496 Jun 09 22:25	2°  11'39		desc. node	7497 May 25 23:44	14°  56'23	
morning max el	7496 Jun 24 02:25	10°  12'26	27°55'03	morning max el	7497 Jun 06 11:21	22°  39'47	27°37'25
	7496 Jul 09 12:18	0° 			7497 Jun 12 22:36	0° 	
	7496 Jul 26 11:28	0° 			7497 Jul 02 18:20	0° 	
morning set	7496 Jul 27 15:29	2°  22'05		morning set	7497 Jul 11 09:55	16°  21'42	
asc. node	7496 Jul 30 23:12	9°  18'01		max. Earth dist.	7497 Jul 16 08:25	26°  15'28	1.32920 AU
max. Earth dist.	7496 Aug 02 07:00	14°  17'47	1.32094 AU	asc. node	7497 Jul 17 20:11	29°  24'11	
					7497 Jul 18 02:56	0° 	
superior conj	7496 Aug 04 02:36	18°  15'28	0°41'23				
minimum elong	7496 Aug 04 00:51	18°  05'54	0°40'59	superior conj	7497 Jul 19 08:49	2°  39'42	0°15'33
	7496 Aug 09 11:14	0° 		minimum elong	7497 Jul 19 08:04	2°  35'39	0°15'18
evening rise	7496 Aug 10 22:16	3°  08'45		behind sun begin	7497 Jul 19 06:29	2°  27'12	
	7496 Aug 25 06:34	0° 		behind sun end	7497 Jul 19 09:38	2°  44'07	
desc. node	7496 Sep 04 01:45	12°  40'00		evening rise	7497 Jul 26 09:51	17°  49'56	
evening max el	7496 Sep 05 05:39	13°  49'19	24°30'34		7497 Aug 01 09:15	0° 	
retrograde	7496 Sep 19 00:56	20°  45'32		evening max el	7497 Aug 17 17:22	24°  04'26	22°51'50
evening set	7496 Sep 24 04:51	19°  46'18		desc. node	7497 Aug 21 22:49	27°  03'00	
min. Earth dist.	7496 Sep 29 16:41	16°  45'53	0.56620 AU		7497 Aug 26 17:17	0° 	
inferior conj	7496 Oct 02 07:19	15°  17'39	-5°30'02	retrograde	7497 Aug 30 23:27	0°  41'40	
minimum elong	7496 Oct 02 08:39	15°  15'33	5°29'57	evening set	7497 Sep 03 15:00	0°  12'31	
morning rise	7496 Oct 10 14:37	11°  14'25			7497 Sep 04 08:39	30° 	
direct	7496 Oct 13 05:38	10°  45'54		min. Earth dist.	7497 Sep 11 01:30	26°  52'10	0.55261 AU
morning max el	7496 Oct 22 19:53	15°  42'17	19°32'21	inferior conj	7497 Sep 12 11:44	26°  03'04	-5°13'44
asc. node	7496 Oct 26 22:42	20°  08'27		minimum elong	7497 Sep 12 05:48	26°  11'36	5°12'58
	7496 Nov 02 05:42	0° 		morning rise	7497 Sep 20 22:41	22°  03'54	
morning set	7496 Nov 09 04:59	13°  22'47		direct	7497 Sep 24 00:39	21°  03'48	
				morning max el	7497 Oct 05 04:14	27°  04'17	20°50'29
superior conj	7496 Nov 17 04:05	29°  20'36	1°29'19		7497 Oct 07 23:27	0° 	
minimum elong	7496 Nov 17 06:38	29°  33'08	1°29'11	asc. node	7497 Oct 13 19:41	8°  02'30	
	7496 Nov 17 12:07	0° 		morning set	7497 Oct 24 12:34	28°  04'55	
max. Earth dist.	7496 Nov 23 10:33	11°  18'07	1.37800 AU		7497 Oct 25 10:47	0° 	
evening rise	7496 Nov 27 04:10	18°  18'02'48					
desc. node	7496 Dec 01 00:49	24°  14'31'19		superior conj	7497 Oct 31 22:31	13°  29'01	1°39'17
	7496 Dec 04 05:04	0° 		minimum elong	7497 Oct 31 23:43	13°  35'10	1°39'18
	7496 Dec 24 23:06	0° 		max. Earth dist.	7497 Nov 05 19:10	23°  14'03	1.35799 AU
evening max el	7497 Jan 01 18:31	8°  46'36	25°12'27		7497 Nov 09 07:58	0° 	
retrograde	7497 Jan 13 18:16	15°  42'28		evening rise	7497 Nov 09 18:59	0°  51'25	
evening set	7497 Jan 19 12:41	13°  19'03		desc. node	7497 Nov 17 21:50	15°  12'09	
asc. node	7497 Jan 22 21:56	9°  43'48			7497 Nov 27 07:41	0° 	
min. Earth dist.	7497 Jan 23 23:36	8°  22'37	0.67568 AU	evening max el	7497 Dec 15 07:31	22°  31'54	26°18'05
inferior conj	7497 Jan 25 03:31	6°  51'49	0°44'15	retrograde	7497 Dec 28 02:09	29°  44'56	
minimum elong	7497 Jan 25 02:27	6°  55'17	0°43'55	evening set	7498 Jan 03 09:13	27°  11'44	
morning rise	7497 Jan 30 16:31	0° 		min. Earth dist.	7498 Jan 07 13:28	22°  50'11	0.66613 AU

inferior conj	7498 Jan 09 04:53	20°  49'50	-0°11'52	desc. node	7498 Nov 04 18:53	5°  25'21	
minimum elong	7498 Jan 09 05:12	20°  48'52	0°11'38		7498 Nov 22 03:08	0° 	
transit middle	7498 Jan 09 05:12	20°  48'52	0°11'38	evening max el	7498 Nov 27 20:25	6°  07'36	27°05'33
transit begin	7498 Jan 09 03:12	20°  54'57		retrograde	7498 Dec 11 04:24	13°  27'33	
transit end	7498 Jan 09 07:11	20°  42'47		evening set	7498 Dec 17 22:21	10°  50'14	
asc. node	7498 Jan 09 19:00	20°  06'52		min. Earth dist.	7498 Dec 21 20:40	7°  03'00	0.65302 AU
morning rise	7498 Jan 15 01:53	15°  03'50		inferior conj	7498 Dec 23 23:46	4°  39'12	-1°14'18
direct	7498 Jan 18 03:23	14°  10'46		minimum elong	7498 Dec 24 01:57	4°  33'02	1°13'16
morning max el	7498 Jan 24 18:49	17°  34'03	18°37'09	asc. node	7498 Dec 27 16:04	0°  52'06	
	7498 Feb 03 02:59	0° 			7498 Dec 28 18:22	30°  R 	
desc. node	7498 Feb 13 21:13	16°  45'02		morning rise	7498 Dec 30 06:48	29°  10'52'28	
morning set	7498 Feb 14 16:33	18°  01'19		direct	7499 Jan 01 23:21	28°  12'6'40	
	7498 Feb 22 07:13	0° 			7499 Jan 06 05:30	0° 	
				morning max el	7499 Jan 08 10:06	1°  52'07	18°04'38
superior conj	7498 Mar 02 20:54	13°  12'53'39	-1°43'23	morning set	7499 Jan 26 14:39	28°  53'30	
minimum elong	7498 Mar 02 11:27	12°  14'8'37	1°42'31		7499 Jan 27 06:51	0° 	
max. Earth dist.	7498 Mar 02 11:24	12°  14'8'25	1.45421 AU	desc. node	7499 Jan 31 18:11	7°  18'12	
	7498 Mar 13 09:33	0° 					
evening rise	7498 Mar 18 11:12	8°  03'38		superior conj	7499 Feb 10 03:58	22°  22'27	-1°03'50
greatest brilliancy	7498 Mar 26 16:51	21°  01'11'05	-0.8m	minimum elong	7499 Feb 09 20:30	21°  22'52'54	1°02'50
	7498 Apr 01 10:09	0° 		max. Earth dist.	7499 Feb 13 06:44	27°  22'16'56	1.45325 AU
asc. node	7498 Apr 07 18:03	8°  28'31			7499 Feb 15 00:21	0° 	
evening max el	7498 Apr 09 01:40	9°  53'31	18°48'53	evening rise	7499 Feb 26 08:54	17°  14'39'14	
retrograde	7498 Apr 15 18:17	13°  36'22			7499 Mar 06 09:11	0° 	
evening set	7498 Apr 19 01:31	12°  33'42		greatest brilliancy	7499 Mar 11 13:32	7°  05'50'45	-0.7m
inferior conj	7498 Apr 24 15:54	6°  52'45	3°25'44	evening max el	7499 Mar 23 08:31	23°  05'29'22	19°36'10
minimum elong	7498 Apr 24 15:56	6°  52'39	3°25'40	asc. node	7499 Mar 25 15:08	25°  05'33'11	
min. Earth dist.	7498 Apr 26 10:55	4°  39'08	0.65654 AU	retrograde	7499 Mar 30 15:46	27°  05'40'24	
morning rise	7498 Apr 30 05:48	0°  35'52		evening set	7499 Apr 03 06:55	26°  05'23'18	
	7498 Apr 30 23:14	30°  R 		inferior conj	7499 Apr 08 16:44	20°  05'27'32	3°19'42
direct	7498 May 06 17:52	27°  04'48'14		minimum elong	7499 Apr 08 15:36	20°  05'31'15	3°19'33
desc. node	7498 May 12 20:45	29°  04'47'03		min. Earth dist.	7499 Apr 09 20:49	18°  05'54'36	0.66969 AU
	7498 May 13 05:11	0° 		morning rise	7499 Apr 13 23:58	14°  05'10'24	
morning max el	7498 May 19 21:53	5°  36'10	26°47'46	direct	7499 Apr 20 01:37	11°  05'28'13	
	7498 Jun 07 14:05	0° 		desc. node	7499 Apr 29 17:44	16°  05'21'10	
morning set	7498 Jun 24 17:47	29°  02'25'56		morning max el	7499 May 02 07:40	18°  05'48'27	25°34'47
	7498 Jun 25 00:56	0° 			7499 May 11 18:49	0° 	
max. Earth dist.	7498 Jun 28 23:53	7°  02'44'30	1.34224 AU		7499 May 31 15:30	0° 	
				morning set	7499 Jun 07 11:01	11°  02'56'41	
superior conj	7498 Jul 03 09:12	16°  02'42'29	-0°13'31	max. Earth dist.	7499 Jun 11 04:10	18°  02'50'20	1.35982 AU
minimum elong	7498 Jul 03 09:57	16°  02'46'21	0°13'28		7499 Jun 16 21:41	0° 	
behind sun begin	7498 Jul 03 06:48	16°  02'29'58					
behind sun end	7498 Jul 03 13:05	17°  02'02'45		superior conj	7499 Jun 17 01:05	0°  02'16'58	-0°44'33
asc. node	7498 Jul 04 17:12	19°  02'29'44		minimum elong	7499 Jun 17 03:42	0°  02'30'06	0°44'09
	7498 Jul 09 16:41	0° 		asc. node	7499 Jun 21 14:16	9°  02'30'56	
evening rise	7498 Jul 10 19:50	2°  02'22'22		evening rise	7499 Jun 25 02:04	16°  02'39'59	
	7498 Jul 26 12:15	0° 			7499 Jul 01 22:02	0° 	
evening max el	7498 Jul 30 11:29	4°  03'30'15	21°17'58	evening max el	7499 Jul 12 18:10	15°  02'34'16	19°59'56
desc. node	7498 Aug 08 19:54	10°  03'11'04		retrograde	7499 Jul 23 03:36	20°  02'41'13	
retrograde	7498 Aug 11 13:10	10°  03'29'01		evening set	7499 Jul 25 00:51	20°  02'31'52	
evening set	7498 Aug 13 22:34	10°  03'15'46		desc. node	7499 Jul 26 16:58	20°  02'08'50	
inferior conj	7498 Aug 23 05:05	6°  03'17'44	-4°03'06	inferior conj	7499 Aug 03 01:24	16°  02'32'16	-2°13'20
minimum elong	7498 Aug 22 19:41	6°  03'30'56	4°00'32	minimum elong	7499 Aug 02 19:16	16°  02'41'31	2°11'08
min. Earth dist.	7498 Aug 23 10:40	6°  03'09'54	0.54709 AU	min. Earth dist.	7499 Aug 04 22:09	15°  02'24'55	0.55120 AU
morning rise	7498 Aug 31 17:33	2°  03'17'38		morning rise	7499 Aug 11 12:00	12°  02'14'58	
direct	7498 Sep 04 09:10	1°  03'55'55		direct	7499 Aug 15 21:30	11°  02'32'43	
morning max el	7498 Sep 17 00:51	7°  03'55'55	22°27'08	morning max el	7499 Aug 29 14:30	18°  02'17'36	24°12'29
asc. node	7498 Sep 30 16:41	26°  03'39'06			7499 Sep 08 06:33	0° 	
	7498 Oct 02 12:39	0° 		asc. node	7499 Sep 17 13:41	15°  03'17'47'52	
morning set	7498 Oct 08 23:06	12°  03'53'59		morning set	7499 Sep 23 10:52	27°  03'17'45'06	
					7499 Sep 24 12:07	0° 	
superior conj	7498 Oct 16 01:00	27°  03'59'55	1°41'53				
minimum elong	7498 Oct 16 00:51	27°  03'59'10	1°41'56	superior conj	7499 Sep 30 08:47	12°  03'45'05	1°38'04
	7498 Oct 16 23:42	0° 		minimum elong	7499 Sep 30 07:33	12°  03'38'22	1°38'01
max. Earth dist.	7498 Oct 19 10:52	5°  03'18'40	1.34132 AU	max. Earth dist.	7499 Oct 02 11:08	17°  03'17'17	1.32889 AU
evening rise	7498 Oct 24 00:54	14°  03'18'20'52		evening rise	7499 Oct 07 18:13	28°  03'21'44	
	7498 Nov 01 13:29	0° 			7499 Oct 08 13:44	0° 	

desc. node	7499 Oct 22 15:57	25° $\mathbb{M}$ 16'10	evening rise	7500 Sep 21 19:38	12° $\mathbb{A}$ 43'37
	7499 Oct 25 17:41	0° $\mathbb{A}$		7500 Sep 30 16:49	0° $\mathbb{M}$
evening max el	7499 Nov 10 08:18	19° $\mathbb{A}$ 23'41 27°27'47	desc. node	7500 Oct 09 13:01	14° $\mathbb{M}$ 34'18
retrograde	7499 Nov 24 00:19	26° $\mathbb{A}$ 42'04		7500 Oct 21 14:03	0° $\mathbb{A}$
evening set	7499 Dec 01 01:29	24° $\mathbb{A}$ 08'43	evening max el	7500 Oct 23 16:42	2° $\mathbb{A}$ 05'49 27°19'05
min. Earth dist.	7499 Dec 04 19:11	20° $\mathbb{A}$ 53'20 0.63668 AU	retrograde	7500 Nov 06 12:41	9° $\mathbb{A}$ 18'31
inferior conj	7499 Dec 07 09:38	18° $\mathbb{A}$ 14'28 -2°21'12	evening set	7500 Nov 13 15:10	6° $\mathbb{A}$ 59'10
minimum elong	7499 Dec 07 14:00	18° $\mathbb{A}$ 03'20 2°19'24	min. Earth dist.	7500 Nov 17 07:15	4° $\mathbb{A}$ 09'40 0.61759 AU
morning rise	7499 Dec 14 04:16	12° $\mathbb{A}$ 55'52	inferior conj	7500 Nov 20 07:22	1° $\mathbb{A}$ 27'03 -3°29'17
asc. node	7499 Dec 14 13:06	12° $\mathbb{A}$ 47'55	minimum elong	7500 Nov 20 13:43	1° $\mathbb{A}$ 12'42 3°27'07
direct	7499 Dec 16 14:14	12° $\mathbb{A}$ 27'19		7500 Nov 21 22:40	30° $\mathbb{R}$ $\mathbb{M}$
morning max el	7499 Dec 23 03:21	15° $\mathbb{A}$ 51'20 17°49'17	morning rise	7500 Nov 27 14:21	26° $\mathbb{M}$ 27'04
	7500 Jan 02 03:56	0° $\mathbb{B}$	direct	7500 Nov 29 20:37	26° $\mathbb{M}$ 05'08
morning set	7500 Jan 08 15:48	11° $\mathbb{B}$ 04'45	asc. node	7500 Dec 01 10:07	26° $\mathbb{M}$ 15'57
desc. node	7500 Jan 18 15:11	27° $\mathbb{B}$ 59'12	morning max el	7500 Dec 06 19:22	29° $\mathbb{M}$ 36'03 17°52'04
	7500 Jan 19 20:25	0° $\mathbb{A}$		7500 Dec 07 04:53	0° $\mathbb{A}$
			morning set	7500 Dec 22 13:30	24° $\mathbb{A}$ 14'31
superior conj	7500 Jan 21 05:14	2° $\mathbb{A}$ 14'43 -0°18'34		7500 Dec 25 18:07	0° $\mathbb{B}$
minimum elong	7500 Jan 21 03:12	2° $\mathbb{A}$ 06'24 0°18'11	superior conj	7501 Jan 02 08:12	13° $\mathbb{B}$ 21'25 0°23'01
max. Earth dist.	7500 Jan 27 00:59	11° $\mathbb{A}$ 38'30 1.44513 AU	minimum elong	7501 Jan 02 10:13	13° $\mathbb{B}$ 30'05 0°22'49
evening rise	7500 Feb 05 20:04	26° $\mathbb{A}$ 56'33	desc. node	7501 Jan 05 12:10	18° $\mathbb{B}$ 44'15
	7500 Feb 07 19:58	0° $\mathbb{H}$	max. Earth dist.	7501 Jan 09 16:05	25° $\mathbb{B}$ 38'07 1.43070 AU
	7500 Feb 28 10:06	0° $\mathbb{Y}$		7501 Jan 12 08:46	0° $\mathbb{A}$
evening max el	7500 Mar 06 10:08	7° $\mathbb{Y}$ 06'59 20°37'59	evening rise	7501 Jan 16 12:07	6° $\mathbb{A}$ 33'47
asc. node	7500 Mar 12 12:14	11° $\mathbb{Y}$ 31'53		7501 Feb 01 02:51	0° $\mathbb{H}$
retrograde	7500 Mar 14 14:13	11° $\mathbb{Y}$ 54'18	evening max el	7501 Feb 17 06:20	20° $\mathbb{H}$ 46'02 21°50'51
evening set	7500 Mar 18 14:28	10° $\mathbb{Y}$ 22'12	retrograde	7501 Feb 26 11:44	26° $\mathbb{H}$ 14'06
inferior conj	7500 Mar 23 22:14	4° $\mathbb{Y}$ 13'40 3°01'58	asc. node	7501 Feb 27 09:17	26° $\mathbb{H}$ 09'56
minimum elong	7500 Mar 23 20:19	4° $\mathbb{Y}$ 20'14 3°01'36	evening set	7501 Mar 02 22:26	24° $\mathbb{H}$ 26'39
min. Earth dist.	7500 Mar 24 12:30	3° $\mathbb{Y}$ 24'39 0.67843 AU	inferior conj	7501 Mar 08 06:11	18° $\mathbb{H}$ 07'57 2°34'20
	7500 Mar 27 03:38	30° $\mathbb{R}$ $\mathbb{H}$	minimum elong	7501 Mar 08 03:55	18° $\mathbb{H}$ 15'51 2°33'45
morning rise	7500 Mar 29 01:57	27° $\mathbb{H}$ 58'37	min. Earth dist.	7501 Mar 08 07:47	18° $\mathbb{H}$ 02'24 0.68283 AU
direct	7500 Apr 03 14:36	25° $\mathbb{H}$ 31'02	morning rise	7501 Mar 13 09:14	11° $\mathbb{H}$ 56'28
	7500 Apr 12 10:28	0° $\mathbb{Y}$	direct	7501 Mar 18 07:43	9° $\mathbb{H}$ 49'12
morning max el	7500 Apr 14 16:29	2° $\mathbb{Y}$ 08'34 24°08'29	morning max el	7501 Mar 28 02:43	15° $\mathbb{H}$ 35'53 22°38'57
desc. node	7500 Apr 16 14:44	4° $\mathbb{Y}$ 10'38	desc. node	7501 Apr 03 11:42	22° $\mathbb{H}$ 54'29
	7500 May 05 20:16	0° $\mathbb{B}$		7501 Apr 08 20:37	0° $\mathbb{Y}$
morning set	7500 May 20 08:17	23° $\mathbb{B}$ 28'04		7501 Apr 28 20:27	0° $\mathbb{B}$
max. Earth dist.	7500 May 24 00:58	29° $\mathbb{B}$ 58'06 1.38095 AU	morning set	7501 May 01 04:00	3° $\mathbb{B}$ 46'10
	7500 May 24 01:23	0° $\mathbb{H}$	max. Earth dist.	7501 May 05 21:48	11° $\mathbb{B}$ 42'07 1.40333 AU
superior conj	7500 May 31 05:00	13° $\mathbb{H}$ 13'59 -1°15'38	superior conj	7501 May 13 16:42	25° $\mathbb{B}$ 23'15 -1°43'41
minimum elong	7500 May 31 09:31	13° $\mathbb{H}$ 35'36 1°15'01	minimum elong	7501 May 13 22:19	25° $\mathbb{B}$ 48'42 1°43'09
asc. node	7500 Jun 08 11:19	29° $\mathbb{H}$ 23'09		7501 May 16 05:15	0° $\mathbb{H}$
	7500 Jun 08 18:47	0° $\mathbb{B}$	evening rise	7501 May 23 16:13	13° $\mathbb{H}$ 59'55
evening rise	7500 Jun 09 01:56	0° $\mathbb{B}$ 35'13	asc. node	7501 May 26 08:22	19° $\mathbb{H}$ 02'01
evening max el	7500 Jun 25 13:28	27° $\mathbb{B}$ 22'08 19°01'53		7501 Jun 01 12:04	0° $\mathbb{B}$
	7500 Jun 28 20:01	0° $\mathbb{Q}$	evening max el	7501 Jun 08 18:21	9° $\mathbb{B}$ 48'32 18°24'31
retrograde	7500 Jul 04 07:07	1° $\mathbb{Q}$ 40'40	retrograde	7501 Jun 16 05:57	13° $\mathbb{B}$ 32'32
evening set	7500 Jul 06 06:03	1° $\mathbb{Q}$ 28'36	evening set	7501 Jun 18 11:30	13° $\mathbb{B}$ 13'31
	7500 Jul 10 04:15	30° $\mathbb{R}$ $\mathbb{B}$	inferior conj	7501 Jun 25 22:52	8° $\mathbb{B}$ 39'09 1°17'41
desc. node	7500 Jul 13 14:02	27° $\mathbb{B}$ 54'26	minimum elong	7501 Jun 26 01:22	8° $\mathbb{B}$ 34'03 1°16'44
inferior conj	7500 Jul 14 13:23	27° $\mathbb{B}$ 14'24 -0°17'39	min. Earth dist.	7501 Jun 29 08:18	5° $\mathbb{B}$ 55'07 0.58354 AU
minimum elong	7500 Jul 14 12:38	27° $\mathbb{B}$ 15'42 0°17'28	desc. node	7501 Jun 30 11:03	5° $\mathbb{B}$ 05'17
min. Earth dist.	7500 Jul 17 12:43	25° $\mathbb{B}$ 11'42 0.56425 AU	morning rise	7501 Jul 03 11:58	3° $\mathbb{B}$ 11'20
morning rise	7500 Jul 22 16:01	22° $\mathbb{B}$ 21'25	direct	7501 Jul 09 13:10	1° $\mathbb{B}$ 35'41
direct	7500 Jul 27 22:22	21° $\mathbb{B}$ 16'17	morning max el	7501 Jul 23 22:31	9° $\mathbb{B}$ 18'04 27°07'02
morning max el	7500 Aug 11 03:53	28° $\mathbb{B}$ 35'17 25°51'14		7501 Aug 08 17:41	0° $\mathbb{Q}$
	7500 Aug 12 13:53	0° $\mathbb{Q}$	asc. node	7501 Aug 22 07:41	25° $\mathbb{Q}$ 07'34
	7500 Sep 01 17:43	0° $\mathbb{P}$	morning set	7501 Aug 23 07:11	27° $\mathbb{Q}$ 10'39
asc. node	7500 Sep 04 10:41	5° $\mathbb{P}$ 19'28		7501 Aug 24 15:03	0° $\mathbb{P}$
morning set	7500 Sep 07 22:06	12° $\mathbb{P}$ 32'10			
superior conj	7500 Sep 14 19:32	27° $\mathbb{P}$ 36'00 1°28'33	superior conj	7501 Aug 30 07:21	12° $\mathbb{P}$ 26'56 1°13'53
minimum elong	7500 Sep 14 17:35	27° $\mathbb{P}$ 25'10 1°28'20	minimum elong	7501 Aug 30 05:05	12° $\mathbb{P}$ 14'25 1°13'31
	7500 Sep 15 21:40	0° $\mathbb{Q}$	max. Earth dist.	7501 Aug 30 04:23	12° $\mathbb{P}$ 10'30 1.31740 AU
max. Earth dist.	7500 Sep 15 18:04	29° $\mathbb{P}$ 40'14 1.32092 AU	evening rise	7501 Sep 06 02:34	27° $\mathbb{P}$ 19'07

	7501 Sep 07 09:09	0°♄			7502 Aug 30 13:43	0°♄	
	7501 Sep 24 05:13	0°♍		desc. node	7502 Sep 13 07:08	20°♄35'49	
desc. node	7501 Sep 26 10:04	3°♍06'48		evening max el	7502 Sep 17 12:44	25°♄06'47	25°23'02
evening max el	7501 Oct 05 18:43	14°♍01'35	26°36'31		7502 Sep 23 22:33	0°♍	
retrograde	7501 Oct 19 16:34	21°♍08'52		retrograde	7502 Oct 01 10:40	2°♍09'09	
evening set	7501 Oct 26 11:02	19°♍14'22		evening set	7502 Oct 07 08:22	0°♍48'44	
min. Earth dist.	7501 Oct 30 08:23	16°♍39'05	0.59687 AU		7502 Oct 09 00:03	30°♌♄	
inferior conj	7501 Nov 02 13:28	14°♍07'27	-4°32'04	min. Earth dist.	7502 Oct 12 00:32	28°♄09'57	0.57652 AU
minimum elong	7501 Nov 02 20:28	13°♍53'36	4°30'18	inferior conj	7502 Oct 15 00:41	26°♄06'35	-5°17'56
morning rise	7501 Nov 10 08:09	9°♍29'26		minimum elong	7502 Oct 15 05:17	25°♄58'42	5°17'21
direct	7501 Nov 12 14:18	9°♍10'58		morning rise	7502 Oct 23 04:31	21°♄51'41	
asc. node	7501 Nov 18 07:08	11°♍15'57		direct	7502 Oct 25 14:46	21°♄33'58	
morning max el	7501 Nov 20 06:48	12°♍57'33	18°14'17	morning max el	7502 Nov 03 10:06	25°♄46'08	18°57'31
	7501 Dec 01 17:57	0°♌		asc. node	7502 Nov 05 04:08	27°♄35'56	
morning set	7501 Dec 06 01:44	8°♌04'45			7502 Nov 07 03:03	0°♍	
				morning set	7502 Nov 19 24:00	22°♍22'31	
superior conj	7501 Dec 15 11:16	25°♌37'26	0°56'12		7502 Nov 23 20:42	0°♌	
minimum elong	7501 Dec 15 14:46	25°♌53'17	0°55'49				
	7501 Dec 17 21:46	0°♎		superior conj	7502 Nov 28 09:30	8°♌48'35	1°19'50
max. Earth dist.	7501 Dec 23 02:18	9°♎00'43	1.41163 AU	minimum elong	7502 Nov 28 12:40	9°♌03'44	1°19'34
desc. node	7501 Dec 23 09:10	9°♎29'48		max. Earth dist.	7502 Dec 05 08:15	21°♌39'38	1.39025 AU
evening rise	7501 Dec 27 21:22	16°♎59'09		evening rise	7502 Dec 09 04:47	28°♌24'18	
	7502 Jan 05 03:25	0°♏		desc. node	7502 Dec 10 06:11	0°♎12'30	
	7502 Jan 26 20:29	0°♐			7502 Dec 10 03:14	0°♎	
evening max el	7502 Jan 30 22:11	4°♐27'05	23°09'56		7502 Dec 29 14:39	0°♏	
retrograde	7502 Feb 10 06:52	10°♐35'19		evening max el	7503 Jan 13 11:40	18°♏11'51	24°29'17
asc. node	7502 Feb 14 06:20	9°♐16'20		retrograde	7503 Jan 24 22:28	24°♏53'53	
evening set	7502 Feb 15 05:14	8°♐32'46		evening set	7503 Jan 30 09:22	22°♏37'27	
min. Earth dist.	7502 Feb 20 04:27	2°♐42'20	0.68310 AU	asc. node	7503 Feb 01 03:21	20°♏54'43	
inferior conj	7502 Feb 20 14:39	2°♐07'11	1°57'52	min. Earth dist.	7503 Feb 04 00:23	17°♏21'05	0.67947 AU
minimum elong	7502 Feb 20 12:28	2°♐14'43	1°57'12	inferior conj	7503 Feb 04 21:52	16°♏09'11	1°13'22
	7502 Feb 22 04:09	30°♑♏		minimum elong	7503 Feb 04 20:15	16°♏14'37	1°12'49
morning rise	7502 Feb 25 19:39	26°♏00'31		morning rise	7503 Feb 10 07:16	10°♏08'47	
direct	7502 Mar 02 04:02	24°♏15'51		direct	7503 Feb 14 02:27	8°♏46'10	
morning max el	7502 Mar 10 17:55	29°♏13'09	21°14'36	morning max el	7503 Feb 21 16:37	13°♏02'51	20°01'32
	7502 Mar 11 12:14	0°♐			7503 Mar 06 18:26	0°♐	
desc. node	7502 Mar 21 08:39	12°♐17'18		desc. node	7503 Mar 08 05:38	2°♐08'57	
	7502 Apr 02 12:53	0°♑		morning set	7503 Mar 20 18:05	21°♐05'03	
morning set	7502 Apr 10 20:00	12°♑47'45			7503 Mar 26 11:42	0°♑	
max. Earth dist.	7502 Apr 18 00:06	24°♑18'37	1.42415 AU	max. Earth dist.	7503 Mar 31 09:23	7°♑45'15	1.44084 AU
	7502 Apr 21 10:33	0°♒					
superior conj	7502 Apr 25 07:17	6°♒32'52	-2°04'11	superior conj	7503 Apr 05 21:15	16°♑37'16	-2°11'12
minimum elong	7502 Apr 25 11:40	6°♒51'40	2°04'01	minimum elong	7503 Apr 05 20:39	16°♑34'45	2°11'14
evening rise	7502 May 06 16:51	26°♒43'31			7503 Apr 13 22:20	0°♒	
	7502 May 08 12:23	0°♓		evening rise	7503 Apr 18 23:21	8°♒36'33	
asc. node	7502 May 13 05:24	8°♓21'32		asc. node	7503 Apr 30 02:25	27°♒15'23	
evening max el	7502 May 23 05:02	22°♓43'28	18°07'11		7503 May 01 22:28	0°♓	
retrograde	7502 May 29 22:18	26°♓08'49		evening max el	7503 May 06 18:08	5°♓58'30	18°09'02
evening set	7502 Jun 01 11:12	25°♓39'47		retrograde	7503 May 13 03:50	9°♓19'58	
inferior conj	7502 Jun 08 04:58	20°♓45'10	2°24'16	evening set	7503 May 15 23:50	8°♓38'49	
minimum elong	7502 Jun 08 08:05	20°♓37'47	2°23'23	inferior conj	7503 May 22 03:57	3°♓25'13	3°04'16
min. Earth dist.	7502 Jun 11 11:11	17°♓41'59	0.60567 AU	minimum elong	7503 May 22 06:10	3°♓19'16	3°03'50
morning rise	7502 Jun 15 02:25	14°♓51'48		min. Earth dist.	7503 May 24 22:52	0°♓26'54	0.62762 AU
desc. node	7502 Jun 17 08:05	13°♓39'49			7503 May 25 09:28	30°♑♒	
direct	7502 Jun 21 16:22	12°♓44'16		morning rise	7503 May 28 10:54	27°♒17'03	
morning max el	7502 Jul 05 23:59	20°♓41'35	27°48'34	direct	7503 Jun 04 05:49	24°♒44'21	
	7502 Jul 14 00:39	0°♔		desc. node	7503 Jun 04 05:07	24°♒44'21	
	7502 Aug 01 16:24	0°♕			7503 Jun 15 07:02	0°♓	
morning set	7502 Aug 07 12:20	11°♕35'08		morning max el	7503 Jun 18 06:49	2°♓47'10	27°51'52
asc. node	7502 Aug 09 04:41	15°♕06'26			7503 Jul 08 10:44	0°♔	
max. Earth dist.	7502 Aug 13 14:15	24°♕36'57	1.31829 AU	morning set	7503 Jul 22 11:25	25°♔38'50	
					7503 Jul 24 14:28	0°♕	
superior conj	7502 Aug 14 18:27	27°♕12'11	0°54'31	asc. node	7503 Jul 27 01:41	5°♕11'05	
minimum elong	7502 Aug 14 16:22	27°♕00'43	0°54'04	max. Earth dist.	7503 Jul 27 19:37	6°♕46'51	1.32378 AU
	7502 Aug 16 00:50	0°♖					
evening rise	7502 Aug 21 12:50	12°♖01'38		superior conj	7503 Jul 30 03:01	11°♕45'47	0°30'53
				minimum elong	7503 Jul 30 01:37	11°♕38'14	0°30'31



evening rise	7503 Aug 06 00:27	26° $\Omega$ 44'42		behind sun begin	7504 Jul 13 01:30	25° $\Omega$ 32'25	
	7503 Aug 07 13:21	0° $\cap$		behind sun end	7504 Jul 13 12:19	26° $\Omega$ 29'46	
	7503 Aug 25 01:34	0° $\Omega$			7504 Jul 15 03:46	0° $\Omega$	
evening max el	7503 Aug 30 00:54	5° $\Omega$ 32'31	23°49'05	evening rise	7504 Jul 20 11:38	11° $\Omega$ 22'57	
desc. node	7503 Aug 31 04:12	6° $\Omega$ 36'00			7504 Jul 30 00:43	0° $\cap$	
retrograde	7503 Sep 12 16:44	12° $\Omega$ 23'17		evening max el	7504 Aug 10 14:31	15° $\cap$ 48'41	22°10'39
evening set	7503 Sep 17 05:14	11° $\Omega$ 38'26		desc. node	7504 Aug 17 01:17	20° $\cap$ 36'02	
min. Earth dist.	7503 Sep 23 11:18	8° $\Omega$ 37'26	0.55952 AU	retrograde	7504 Aug 23 10:25	22° $\cap$ 11'19	
inferior conj	7503 Sep 25 15:39	7° $\Omega$ 18'20	-5°29'37	evening set	7504 Aug 26 11:20	21° $\cap$ 50'53	
minimum elong	7503 Sep 25 13:54	7° $\Omega$ 20'58	5°29'33	min. Earth dist.	7504 Sep 03 20:07	18° $\cap$ 13'12	0.54913 AU
morning rise	7503 Oct 04 00:48	3° $\Omega$ 22'29		inferior conj	7504 Sep 04 14:01	17° $\cap$ 48'03	-4°50'16
direct	7503 Oct 06 19:50	3° $\Omega$ 02'47		minimum elong	7504 Sep 04 05:46	17° $\cap$ 59'39	4°48'39
morning max el	7503 Oct 17 01:56	7° $\Omega$ 51'10	20°02'57	morning rise	7504 Sep 13 01:46	13° $\cap$ 59'29	
asc. node	7503 Oct 23 01:08	14° $\Omega$ 59'50		direct	7504 Sep 16 09:21	13° $\cap$ 34'56	
	7503 Oct 31 17:22	0° $\cap$		morning max el	7504 Sep 28 04:54	19° $\cap$ 07'41	21°29'39
morning set	7503 Nov 04 04:55	6° $\cap$ 57'38			7504 Oct 06 22:09	0° $\Omega$	
				asc. node	7504 Oct 08 22:10	3° $\Omega$ 13'31	
superior conj	7503 Nov 11 21:46	22° $\cap$ 39'18	1°34'30	morning set	7504 Oct 18 14:02	21° $\Omega$ 43'21	
minimum elong	7503 Nov 11 23:46	22° $\cap$ 49'20	1°34'26		7504 Oct 22 12:25	0° $\cap$	
	7503 Nov 15 15:15	0° $\nearrow$		superior conj	7504 Oct 25 20:01	6° $\cap$ 58'11	1°41'12
max. Earth dist.	7503 Nov 17 14:06	3° $\nearrow$ 44'00	1.36917 AU	minimum elong	7504 Oct 25 20:38	7° $\cap$ 01'23	1°41'15
evening rise	7503 Nov 21 09:11	10° $\nearrow$ 45'08		max. Earth dist.	7504 Oct 30 01:31	15° $\cap$ 37'22	1.35050 AU
desc. node	7503 Nov 27 03:13	20° $\nearrow$ 47'36		evening rise	7504 Nov 03 06:58	23° $\cap$ 52'33	
	7503 Dec 02 18:50	0° $\searrow$			7504 Nov 06 14:01	0° $\nearrow$	
	7503 Dec 25 02:01	0° $\approx$		desc. node	7504 Nov 13 00:15	11° $\nearrow$ 10'25	
evening max el	7503 Dec 27 00:39	1° $\approx$ 58'28	25°42'07		7504 Nov 25 09:38	0° $\searrow$	
retrograde	7504 Jan 08 09:27	9° $\approx$ 03'29		evening max el	7504 Dec 08 13:57	15° $\searrow$ 41'28	26°40'54
evening set	7504 Jan 14 09:12	6° $\approx$ 35'35		retrograde	7504 Dec 21 14:55	22° $\searrow$ 57'54	
min. Earth dist.	7504 Jan 18 17:14	1° $\approx$ 53'40	0.67206 AU	evening set	7504 Dec 28 02:50	20° $\searrow$ 22'30	
asc. node	7504 Jan 19 00:25	1° $\approx$ 31'00		min. Earth dist.	7505 Jan 01 04:37	16° $\searrow$ 15'25	0.66104 AU
inferior conj	7504 Jan 20 01:57	0° $\approx$ 09'43	0°21'18	inferior conj	7505 Jan 03 00:52	14° $\searrow$ 04'34	-0°37'38
minimum elong	7504 Jan 20 01:24	0° $\approx$ 11'26	0°21'10	minimum elong	7505 Jan 03 01:55	14° $\searrow$ 01'27	0°37'05
	7504 Jan 20 05:00	30° $\nearrow$ 3		asc. node	7505 Jan 04 21:29	11° $\searrow$ 56'11	
morning rise	7504 Jan 25 18:04	24° $\searrow$ 17'31		morning rise	7505 Jan 09 01:53	8° $\searrow$ 23'10	
direct	7504 Jan 29 01:32	23° $\searrow$ 14'35		direct	7505 Jan 11 23:24	7° $\searrow$ 36'30	
morning max el	7504 Feb 04 23:04	27° $\searrow$ 02'17	19°03'14	morning max el	7505 Jan 18 11:49	11° $\searrow$ 06'49	18°21'09
	7504 Feb 07 15:32	0° $\approx$			7505 Jan 31 23:30	0° $\approx$	
greatest brilliancy	7504 Feb 18 20:36	15° $\approx$ 49'45	-0.8m	morning set	7505 Feb 07 02:37	9° $\approx$ 48'00	
desc. node	7504 Feb 23 02:37	22° $\approx$ 21'07		desc. node	7505 Feb 08 23:35	12° $\approx$ 47'52	
morning set	7504 Feb 27 21:41	29° $\approx$ 46'52			7505 Feb 19 20:01	0° $\nearrow$	
	7504 Feb 28 01:03	0° $\nearrow$		superior conj	7505 Feb 22 16:44	4° $\nearrow$ 29'40	-1°28'00
max. Earth dist.	7504 Mar 13 00:49	21° $\nearrow$ 50'10	1.45141 AU	minimum elong	7505 Feb 22 07:19	3° $\nearrow$ 52'44	1°26'58
superior conj	7504 Mar 15 12:25	25° $\nearrow$ 44'55	-1°59'20	max. Earth dist.	7505 Feb 23 20:09	6° $\nearrow$ 17'02	1.45478 AU
minimum elong	7504 Mar 15 05:03	25° $\nearrow$ 15'50	1°58'53	evening rise	7505 Mar 10 16:37	29° $\nearrow$ 32'41	
	7504 Mar 18 04:51	0° $\cap$			7505 Mar 10 23:35	0° $\cap$	
evening rise	7504 Mar 30 07:36	19° $\cap$ 32'17		greatest brilliancy	7505 Mar 21 05:26	16° $\cap$ 01'07	-0.8m
	7504 Apr 05 17:04	0° $\searrow$			7505 Mar 31 00:13	0° $\searrow$	
asc. node	7504 Apr 15 23:29	15° $\searrow$ 35'43		evening max el	7505 Apr 02 16:14	3° $\searrow$ 00'42	19°07'07
evening max el	7504 Apr 19 06:42	19° $\searrow$ 26'28	18°29'19	asc. node	7505 Apr 02 20:34	3° $\searrow$ 11'35	
retrograde	7504 Apr 25 18:15	22° $\searrow$ 57'41		retrograde	7505 Apr 09 14:01	6° $\searrow$ 53'54	
evening set	7504 Apr 28 21:21	22° $\searrow$ 03'01		evening set	7505 Apr 13 00:36	5° $\searrow$ 44'59	
inferior conj	7504 May 04 15:45	16° $\searrow$ 31'46	3°22'51		7505 Apr 18 11:56	30° $\nearrow$	
minimum elong	7504 May 04 16:34	16° $\searrow$ 29'19	3°22'43	inferior conj	7505 Apr 18 12:42	29° $\cap$ 57'33	3°24'45
min. Earth dist.	7504 May 06 19:45	13° $\searrow$ 57'59	0.64708 AU	minimum elong	7505 Apr 18 12:12	29° $\cap$ 59'08	3°24'40
morning rise	7504 May 10 10:57	10° $\searrow$ 16'48		min. Earth dist.	7505 Apr 20 01:13	28° $\cap$ 00'46	0.66271 AU
direct	7504 May 17 03:21	7° $\searrow$ 30'49		morning rise	7505 Apr 23 23:24	23° $\cap$ 40'29	
desc. node	7504 May 21 02:08	8° $\searrow$ 20'27		direct	7505 Apr 30 07:32	20° $\cap$ 53'59	
morning max el	7504 May 30 16:31	15° $\searrow$ 27'30	27°19'42	desc. node	7505 May 07 23:09	23° $\cap$ 58'44	
	7504 Jun 11 14:21	0° $\cap$		morning max el	7505 May 13 02:45	28° $\cap$ 31'10	26°19'01
	7504 Jun 30 04:32	0° $\Omega$			7505 May 14 12:49	0° $\searrow$	
morning set	7504 Jul 05 01:49	9° $\Omega$ 14'27			7505 Jun 05 09:06	0° $\cap$	
max. Earth dist.	7504 Jul 09 16:55	18° $\Omega$ 31'32	1.33410 AU	morning set	7505 Jun 18 03:57	22° $\cap$ 11'31	
asc. node	7504 Jul 12 22:42	25° $\Omega$ 17'35		max. Earth dist.	7505 Jun 22 03:37	29° $\cap$ 49'06	1.34925 AU
					7505 Jun 22 05:51	0° $\Omega$	
superior conj	7504 Jul 13 07:05	26° $\Omega$ 02'01	0°03'35				
minimum elong	7504 Jul 13 06:55	26° $\Omega$ 01'04	0°03'27				

superior conj	7505 Jun 27 04:12	9°♄53'22	-0°26'32	max. Earth dist.	7506 Jun 04 04:24	10°♄53'22	1.36856 AU
minimum elong	7505 Jun 27 05:42	10°♄01'06	0°26'20				
asc. node	7505 Jun 29 19:43	15°♄21'29		superior conj	7506 Jun 10 15:24	23°♄12'29	-0°57'53
evening rise	7505 Jul 04 20:17	25°♄49'36		minimum elong	7506 Jun 10 18:52	23°♄29'31	0°57'22
	7505 Jul 06 21:08	0°♄			7506 Jun 14 01:26	0°♄	
evening max el	7505 Jul 23 13:33	26°♄27'50	20°42'24	asc. node	7506 Jun 16 16:46	5°♄19'07	
	7505 Jul 27 23:59	0°♄		evening rise	7506 Jun 19 00:09	9°♄58'29	
retrograde	7505 Aug 03 22:28	2°♄04'56			7506 Jun 29 21:57	0°♄	
desc. node	7505 Aug 03 22:22	2°♄04'56		evening max el	7506 Jul 06 01:39	7°♄49'24	19°32'34
evening set	7505 Aug 06 00:46	1°♄54'16		retrograde	7506 Jul 15 17:33	12°♄35'02	
	7505 Aug 11 12:26	30°♄♄		evening set	7506 Jul 17 14:18	12°♄25'09	
inferior conj	7505 Aug 15 06:37	27°♄57'18	-3°19'28	desc. node	7506 Jul 21 19:25	10°♄58'35	
minimum elong	7505 Aug 14 21:56	28°♄09'42	3°16'41	inferior conj	7506 Jul 26 08:18	8°♄20'04	-1°22'56
min. Earth dist.	7505 Aug 16 05:39	27°♄24'22	0.54769 AU	minimum elong	7506 Jul 26 04:32	8°♄26'03	1°21'35
morning rise	7505 Aug 23 18:57	23°♄56'33		min. Earth dist.	7506 Jul 28 18:08	6°♄48'16	0.55579 AU
direct	7505 Aug 27 17:52	23°♄23'03		morning rise	7506 Aug 03 16:19	3°♄48'08	
morning max el	7505 Sep 09 21:32	29°♄42'17	23°11'47	direct	7506 Aug 08 10:17	2°♄57'37	
	7505 Sep 10 05:03	0°♄		morning max el	7506 Aug 22 10:21	9°♄58'15	24°56'30
asc. node	7505 Sep 25 19:11	22°♄04'26			7506 Sep 06 11:02	0°♄	
	7505 Sep 29 21:22	0°♄		asc. node	7506 Sep 12 16:10	11°♄23'17	
morning set	7505 Oct 03 01:20	6°♄33'32		morning set	7506 Sep 17 13:01	21°♄23'00	
					7506 Sep 21 12:29	0°♄	
superior conj	7505 Oct 10 01:02	21°♄35'23	1°40'59	superior conj	7506 Sep 24 10:18	6°♄23'09	1°34'41
minimum elong	7505 Oct 10 00:24	21°♄31'57	1°41'01	minimum elong	7506 Sep 24 08:42	6°♄14'27	1°34'35
max. Earth dist.	7505 Oct 12 21:12	27°♄37'47	1.33551 AU	max. Earth dist.	7506 Sep 26 00:33	9°♄52'03	1.32488 AU
	7505 Oct 14 00:25	0°♄		evening rise	7506 Oct 01 15:10	21°♄45'41	
evening rise	7505 Oct 17 18:07	7°♄35'52			7506 Oct 05 18:25	0°♄	
	7505 Oct 30 02:56	0°♄		desc. node	7506 Oct 17 18:24	20°♄52'56	
desc. node	7505 Oct 30 21:20	1°♄14'58			7506 Oct 24 00:56	0°♄	
evening max el	7505 Nov 21 02:44	29°♄10'32	27°18'27	evening max el	7506 Nov 03 13:12	12°♄12'33	27°28'08
	7505 Nov 21 23:57	0°♄		retrograde	7506 Nov 17 07:09	19°♄29'15	
retrograde	7505 Dec 04 14:19	6°♄29'48		evening set	7506 Nov 24 09:58	17°♄00'09	
evening set	7505 Dec 11 12:05	3°♄53'05		min. Earth dist.	7506 Nov 28 02:15	13°♄57'13	0.62880 AU
min. Earth dist.	7505 Dec 15 08:16	0°♄20'01	0.64650 AU	inferior conj	7506 Nov 30 21:21	11°♄14'51	-2°50'17
	7505 Dec 15 15:49	30°♄♄		minimum elong	7506 Dec 01 02:37	11°♄02'03	2°48'14
inferior conj	7505 Dec 17 16:17	27°♄48'49	-1°42'14	morning rise	7506 Dec 07 21:15	6°♄04'10	
minimum elong	7505 Dec 17 19:22	27°♄40'27	1°40'52	asc. node	7506 Dec 09 15:35	5°♄40'25	
asc. node	7505 Dec 22 18:33	23°♄07'02		direct	7506 Dec 10 05:15	5°♄38'53	
morning rise	7505 Dec 24 04:05	22°♄21'09		morning max el	7506 Dec 16 21:32	9°♄04'37	17°48'17
direct	7505 Dec 26 17:39	21°♄47'03			7506 Dec 30 18:12	0°♄	
morning max el	7506 Jan 02 04:21	25°♄10'25	17°55'58	morning set	7507 Jan 01 23:42	3°♄54'57	
	7506 Jan 06 05:16	0°♄					
morning set	7506 Jan 19 13:00	21°♄16'39		superior conj	7507 Jan 13 17:55	24°♄09'38	-0°00'07
	7506 Jan 24 18:45	0°♄		minimum elong	7507 Jan 13 17:55	24°♄09'37	0°00'00
desc. node	7506 Jan 26 20:33	3°♄24'57		behind sun begin	7507 Jan 13 12:08	23°♄45'26	
				behind sun end	7507 Jan 13 23:42	24°♄33'46	
superior conj	7506 Feb 02 05:53	13°♄45'46	-0°44'41	desc. node	7507 Jan 13 17:33	24°♄08'03	
minimum elong	7506 Feb 02 00:40	13°♄24'51	0°43'52		7507 Jan 17 06:48	0°♄	
max. Earth dist.	7506 Feb 06 15:59	20°♄47'02	1.45068 AU	max. Earth dist.	7507 Jan 20 09:04	5°♄00'53	1.43963 AU
	7506 Feb 12 13:19	0°♄		evening rise	7507 Jan 28 19:35	18°♄17'49	
evening rise	7506 Feb 18 08:15	8°♄56'50			7507 Feb 05 12:16	0°♄	
	7506 Mar 04 06:02	0°♄			7507 Feb 27 14:13	0°♄	
greatest brilliancy	7506 Mar 04 23:19	1°♄03'29	-0.6m	evening max el	7507 Feb 27 20:02	0°♄14'55	21°07'47
evening max el	7506 Mar 16 20:56	16°♄37'26	20°00'48	asc. node	7507 Mar 07 14:43	5°♄16'15	
asc. node	7506 Mar 20 17:39	19°♄50'13		retrograde	7507 Mar 08 10:38	5°♄19'50	
retrograde	7506 Mar 24 12:15	21°♄03'05		evening set	7507 Mar 12 15:07	3°♄41'13	
evening set	7506 Mar 28 07:11	19°♄39'27			7507 Mar 16 01:40	30°♄♄	
inferior conj	7506 Apr 02 15:50	13°♄37'43	3°13'29	inferior conj	7507 Mar 17 22:38	27°♄27'44	2°51'22
minimum elong	7506 Apr 02 14:19	13°♄42'48	3°13'15	minimum elong	7507 Mar 17 20:31	27°♄35'04	2°50'54
min. Earth dist.	7506 Apr 03 13:47	12°♄23'42	0.67397 AU	min. Earth dist.	7507 Mar 18 07:21	26°♄57'30	0.68082 AU
morning rise	7506 Apr 07 21:13	7°♄21'21		morning rise	7507 Mar 23 01:43	21°♄13'49	
direct	7506 Apr 13 17:27	4°♄44'47		direct	7507 Mar 28 08:16	18°♄54'33	
desc. node	7506 Apr 24 20:07	11°♄07'59		morning max el	7507 Apr 07 21:23	25°♄11'30	23°30'10
morning max el	7506 Apr 25 12:12	11°♄48'05	24°59'07	desc. node	7507 Apr 11 17:04	29°♄22'32	
	7506 May 10 01:59	0°♄			7507 Apr 12 05:46	0°♄	
	7506 May 29 02:32	0°♄			7507 May 03 13:51	0°♄	
morning set	7506 May 31 13:20	4°♄18'28					

morning set	7507 May 13 00:22	15° $\text{♄}$ 20'15			7508 Apr 25 08:42	0° $\text{♄}$	
max. Earth dist.	7507 May 17 00:06	22° $\text{♄}$ 11'58	1.39046 AU	max. Earth dist.	7508 Apr 27 22:12	4° $\text{♄}$ 14'58	1.41256 AU
	7507 May 21 09:00	0° $\text{♄}$					
superior conj	7507 May 24 12:55	5° $\text{♄}$ 50'00	-1°28'09	superior conj	7508 May 05 16:14	17° $\text{♄}$ 35'09	-1°53'38
minimum elong	7507 May 24 18:05	6° $\text{♄}$ 14'08	1°27'32	minimum elong	7508 May 05 21:43	17° $\text{♄}$ 59'25	1°53'15
evening rise	7507 Jun 02 20:21	23° $\text{♄}$ 41'36		evening rise	7508 May 12 12:55	0° $\text{♄}$	
asc. node	7507 Jun 03 13:49	25° $\text{♄}$ 06'06		asc. node	7508 May 16 05:21	6° $\text{♄}$ 49'39	
	7507 Jun 06 03:07	0° $\text{♄}$			7508 May 20 10:50	14° $\text{♄}$ 37'11	
evening max el	7507 Jun 19 01:27	19° $\text{♄}$ 54'40	18°43'30	evening max el	7508 May 30 01:55	0° $\text{♄}$	
retrograde	7507 Jun 27 05:09	23° $\text{♄}$ 56'46		retrograde	7508 Jun 01 09:21	2° $\text{♄}$ 34'42	18°14'48
evening set	7507 Jun 29 06:27	23° $\text{♄}$ 42'19		evening set	7508 Jun 08 11:37	6° $\text{♄}$ 08'28	
inferior conj	7507 Jul 07 05:16	19° $\text{♄}$ 20'04	0°26'08	inferior conj	7508 Jun 10 20:22	5° $\text{♄}$ 45'29	
minimum elong	7507 Jul 07 06:15	19° $\text{♄}$ 18'14	0°25'40	minimum elong	7508 Jun 17 23:51	1° $\text{♄}$ 02'43	1°49'27
desc. node	7507 Jul 08 16:25	18° $\text{♄}$ 14'35			7508 Jun 18 02:53	0° $\text{♄}$ 56'08	1°48'26
min. Earth dist.	7507 Jul 10 10:57	16° $\text{♄}$ 57'07	0.57183 AU	min. Earth dist.	7508 Jun 19 04:36	30° $\text{♄}$ 11	
morning rise	7507 Jul 15 02:34	14° $\text{♄}$ 11'04		desc. node	7508 Jun 21 09:26	28° $\text{♄}$ 07'22	0.59282 AU
direct	7507 Jul 20 17:22	12° $\text{♄}$ 53'26		morning rise	7508 Jun 24 13:27	25° $\text{♄}$ 48'10	
morning max el	7507 Aug 04 01:42	20° $\text{♄}$ 24'36	26°27'09	direct	7508 Jun 25 06:20	25° $\text{♄}$ 22'52	
	7507 Aug 12 07:51	0° $\text{♄}$			7508 Jul 01 14:08	23° $\text{♄}$ 32'57	
	7507 Aug 30 00:51	0° $\text{♄}$		morning max el	7508 Jul 14 12:04	0° $\text{♄}$	
asc. node	7507 Aug 30 13:09	1° $\text{♄}$ 02'45			7508 Jul 15 23:02	1° $\text{♄}$ 22'54	27°29'15
morning set	7507 Sep 01 23:32	6° $\text{♄}$ 07'14		morning set	7508 Aug 05 13:40	0° $\text{♄}$	
				asc. node	7508 Aug 16 07:08	20° $\text{♄}$ 40'08	
superior conj	7507 Sep 08 21:44	21° $\text{♄}$ 15'13	1°22'57		7508 Aug 16 10:08	20° $\text{♄}$ 55'52	
minimum elong	7507 Sep 08 19:35	21° $\text{♄}$ 03'21	1°22'39		7508 Aug 20 15:23	0° $\text{♄}$	
max. Earth dist.	7507 Sep 09 09:12	22° $\text{♄}$ 18'41	1.31879 AU	superior conj	7508 Aug 23 09:26	6° $\text{♄}$ 04'25	1°06'14
	7507 Sep 12 21:12	0° $\text{♄}$		minimum elong	7508 Aug 23 07:12	5° $\text{♄}$ 52'00	1°05'48
evening rise	7507 Sep 15 19:13	6° $\text{♄}$ 14'23		max. Earth dist.	7508 Aug 22 19:38	4° $\text{♄}$ 47'58	1.31721 AU
	7507 Sep 28 07:41	0° $\text{♄}$		evening rise	7508 Aug 30 03:48	20° $\text{♄}$ 53'39	
desc. node	7507 Oct 04 15:27	9° $\text{♄}$ 53'44			7508 Sep 03 13:36	0° $\text{♄}$	
evening max el	7507 Oct 16 19:04	24° $\text{♄}$ 35'54	27°05'11	desc. node	7508 Sep 20 12:31	28° $\text{♄}$ 01'38	
	7507 Oct 24 01:43	0° $\text{♄}$			7508 Sep 22 02:02	0° $\text{♄}$	
retrograde	7507 Oct 30 16:27	1° $\text{♄}$ 47'06		evening max el	7508 Sep 27 17:54	6° $\text{♄}$ 10'21	26°08'43
	7507 Nov 06 00:46	30° $\text{♄}$ 11		retrograde	7508 Oct 11 16:22	13° $\text{♄}$ 15'23	
evening set	7507 Nov 06 16:42	29° $\text{♄}$ 36'51		evening set	7508 Oct 18 03:28	11° $\text{♄}$ 34'57	
min. Earth dist.	7507 Nov 10 09:44	26° $\text{♄}$ 55'10	0.60879 AU	min. Earth dist.	7508 Oct 22 06:58	9° $\text{♄}$ 00'12	0.58799 AU
inferior conj	7507 Nov 13 12:51	24° $\text{♄}$ 14'55	-3°57'11	inferior conj	7508 Oct 25 11:15	6° $\text{♄}$ 38'41	-4°54'32
minimum elong	7507 Nov 13 19:43	24° $\text{♄}$ 00'12	3°55'03	minimum elong	7508 Oct 25 17:42	6° $\text{♄}$ 26'39	4°53'14
morning rise	7507 Nov 21 01:01	19° $\text{♄}$ 24'06		morning rise	7508 Nov 02 10:12	2° $\text{♄}$ 10'11	
direct	7507 Nov 23 06:34	19° $\text{♄}$ 04'09		direct	7508 Nov 04 17:28	1° $\text{♄}$ 52'23	
asc. node	7507 Nov 26 12:34	19° $\text{♄}$ 48'21		asc. node	7508 Nov 12 09:34	5° $\text{♄}$ 23'32	
morning max el	7507 Nov 30 12:05	22° $\text{♄}$ 40'57	17°59'06	morning max el	7508 Nov 12 20:24	5° $\text{♄}$ 49'00	18°29'59
	7507 Dec 06 05:15	0° $\text{♄}$			7508 Nov 28 03:11	0° $\text{♄}$	
morning set	7507 Dec 16 04:14	17° $\text{♄}$ 23'39		morning set	7508 Nov 28 21:12	1° $\text{♄}$ 26'35	
	7507 Dec 23 01:35	0° $\text{♄}$					
superior conj	7507 Dec 26 07:40	5° $\text{♄}$ 47'21	0°38'13	superior conj	7508 Dec 07 19:28	18° $\text{♄}$ 27'47	1°07'23
minimum elong	7507 Dec 26 10:36	6° $\text{♄}$ 00'14	0°37'53	minimum elong	7508 Dec 07 22:59	18° $\text{♄}$ 44'06	1°07'01
desc. node	7507 Dec 31 14:34	14° $\text{♄}$ 53'50			7508 Dec 14 05:00	0° $\text{♄}$	
max. Earth dist.	7508 Jan 02 21:36	18° $\text{♄}$ 43'58	1.42300 AU	max. Earth dist.	7508 Dec 15 05:37	1° $\text{♄}$ 37'06	1.40269 AU
evening rise	7508 Jan 08 17:52	28° $\text{♄}$ 13'00		desc. node	7508 Dec 17 11:35	5° $\text{♄}$ 38'26	
	7508 Jan 09 20:54	0° $\text{♄}$		evening rise	7508 Dec 19 12:23	9° $\text{♄}$ 03'19	
	7508 Jan 30 04:48	0° $\text{♄}$			7509 Jan 01 20:53	0° $\text{♄}$	
evening max el	7508 Feb 10 14:11	13° $\text{♄}$ 54'33	22°24'02	evening max el	7509 Jan 23 04:58	27° $\text{♄}$ 37'46	23°44'09
retrograde	7508 Feb 20 07:22	19° $\text{♄}$ 40'27			7509 Jan 25 18:15	0° $\text{♄}$	
asc. node	7508 Feb 22 11:45	19° $\text{♄}$ 16'04		retrograde	7509 Feb 03 01:02	4° $\text{♄}$ 00'58	
evening set	7508 Feb 24 22:46	17° $\text{♄}$ 46'45		evening set	7509 Feb 08 04:37	1° $\text{♄}$ 52'32	
inferior conj	7508 Mar 01 07:03	11° $\text{♄}$ 24'37	2°19'53	asc. node	7509 Feb 08 08:47	1° $\text{♄}$ 43'34	
minimum elong	7508 Mar 01 04:45	11° $\text{♄}$ 32'35	2°19'15		7509 Feb 10 01:57	30° $\text{♄}$ 11	
min. Earth dist.	7508 Mar 01 03:37	11° $\text{♄}$ 36'34	0.68346 AU	min. Earth dist.	7509 Feb 13 00:16	26° $\text{♄}$ 16'31	0.68203 AU
morning rise	7508 Mar 06 10:35	5° $\text{♄}$ 14'44		inferior conj	7509 Feb 13 15:13	25° $\text{♄}$ 25'30	1°39'59
direct	7508 Mar 11 03:01	3° $\text{♄}$ 16'49		minimum elong	7509 Feb 13 13:13	25° $\text{♄}$ 32'21	1°39'20
morning max el	7508 Mar 20 09:12	8° $\text{♄}$ 42'12	22°01'51	morning rise	7509 Feb 18 21:47	19° $\text{♄}$ 21'13	
desc. node	7508 Mar 28 14:02	18° $\text{♄}$ 24'26		direct	7509 Feb 23 00:31	17° $\text{♄}$ 45'53	
	7508 Apr 05 22:34	0° $\text{♄}$		morning max el	7509 Mar 03 03:18	22° $\text{♄}$ 24'15	20°41'53
morning set	7508 Apr 22 08:04	25° $\text{♄}$ 04'36			7509 Mar 09 14:44	0° $\text{♄}$	
				desc. node	7509 Mar 15 11:02	8° $\text{♄}$ 00'47	

	7509 Mar 30 05:16	0°♿			7510 Mar 23 00:45	0°♿	
morning set	7509 Apr 01 14:24	3°♿41'08		max. Earth dist.	7510 Mar 23 16:37	1°♿02'48	1.44616 AU
max. Earth dist.	7509 Apr 10 03:47	17°♿15'26	1.43193 AU				
				superior conj	7510 Mar 28 00:17	7°♿56'02	-2°08'41
superior conj	7509 Apr 16 20:46	28°♿18'25	-2°09'11	minimum elong	7510 Mar 27 20:41	7°♿41'35	2°08'35
minimum elong	7509 Apr 16 23:30	28°♿29'54	2°09'09		7510 Apr 10 10:09	0°♿	
	7509 Apr 17 20:55	0°♿		evening rise	7510 Apr 10 20:23	0°♿42'58	
evening rise	7509 Apr 28 22:54	19°♿13'25		asc. node	7510 Apr 24 04:56	22°♿27'47	
	7509 May 05 02:12	0°♿		evening max el	7510 Apr 29 10:47	29°♿01'21	18°15'22
asc. node	7509 May 07 07:53	3°♿46'59			7510 Apr 30 11:57	0°♿	
evening max el	7509 May 15 21:34	15°♿40'03	18°05'39	retrograde	7510 May 05 20:09	2°♿25'31	
retrograde	7509 May 22 10:10	19°♿01'41		evening set	7510 May 08 19:10	1°♿38'40	
evening set	7509 May 25 02:15	18°♿27'32			7510 May 11 03:35	30°♿	
inferior conj	7509 May 31 13:41	13°♿24'32	2°44'11	inferior conj	7510 May 14 18:39	26°♿17'03	3°14'27
minimum elong	7509 May 31 16:32	13°♿17'23	2°43'28	minimum elong	7510 May 14 20:18	26°♿12'25	3°14'10
min. Earth dist.	7509 Jun 03 15:44	10°♿20'56	0.61525 AU	min. Earth dist.	7510 May 17 07:18	23°♿27'28	0.63631 AU
morning rise	7509 Jun 07 04:46	7°♿24'01		morning rise	7510 May 20 20:14	20°♿05'07	
desc. node	7509 Jun 11 10:28	5°♿23'23		direct	7510 May 27 14:44	17°♿25'36	
direct	7509 Jun 13 21:54	5°♿04'45		desc. node	7510 May 29 07:30	17°♿34'43	
morning max el	7509 Jun 28 02:56	13°♿04'34	27°54'34	morning max el	7510 Jun 10 11:33	25°♿26'56	27°42'13
	7509 Jul 11 14:40	0°♿			7510 Jun 14 15:37	0°♿	
	7509 Jul 28 23:14	0°♿			7510 Jul 05 02:51	0°♿	
morning set	7509 Jul 31 10:00	4°♿56'27		morning set	7510 Jul 15 05:46	18°♿49'18	
asc. node	7509 Aug 03 07:09	10°♿57'45		max. Earth dist.	7510 Jul 20 06:49	29°♿10'35	1.32765 AU
max. Earth dist.	7509 Aug 06 04:12	17°♿09'23	1.32014 AU		7510 Jul 20 16:11	0°♿	
				asc. node	7510 Jul 21 04:11	1°♿03'40	
superior conj	7509 Aug 07 19:42	20°♿45'24	0°44'59				
minimum elong	7509 Aug 07 17:51	20°♿35'14	0°44'33	superior conj	7510 Jul 23 02:38	5°♿12'12	0°19'42
	7509 Aug 12 00:38	0°♿		minimum elong	7510 Jul 23 01:42	5°♿07'08	0°19'25
evening rise	7509 Aug 14 14:55	5°♿37'22		evening rise	7510 Jul 30 02:37	20°♿19'12	
	7509 Aug 27 09:21	0°♿			7510 Aug 03 19:14	0°♿	
desc. node	7509 Sep 07 09:34	14°♿56'02		evening max el	7510 Aug 21 20:32	27°♿13'01	23°06'37
evening max el	7509 Sep 09 09:00	16°♿56'20	24°44'36	desc. node	7510 Aug 25 06:38	0°♿09'14	
retrograde	7509 Sep 23 05:04	23°♿54'13			7510 Aug 25 01:42	0°♿	
evening set	7509 Sep 28 14:03	22°♿49'32		retrograde	7510 Sep 04 05:43	3°♿54'39	
min. Earth dist.	7509 Oct 03 20:08	20°♿03'30	0.56876 AU	evening set	7510 Sep 08 02:37	3°♿21'50	
inferior conj	7509 Oct 06 13:47	18°♿17'36	-5°28'10	min. Earth dist.	7510 Sep 15 05:22	0°♿06'55	0.55414 AU
minimum elong	7509 Oct 06 16:05	18°♿13'52	5°28'02		7510 Sep 15 10:10	30°♿	
morning rise	7509 Oct 14 20:19	14°♿11'34		inferior conj	7510 Sep 16 20:48	29°♿09'44	-5°19'46
direct	7509 Oct 17 10:02	13°♿53'09		minimum elong	7510 Sep 16 15:54	29°♿16'51	5°19'14
morning max el	7509 Oct 26 19:02	18°♿19'13	19°22'37	morning rise	7510 Sep 25 07:22	25°♿19'25	
asc. node	7509 Oct 30 06:35	22°♿12'08		direct	7510 Sep 28 07:22	24°♿58'06	
	7509 Nov 04 12:04	0°♿		morning max el	7510 Oct 09 05:26	0°♿04'02	20°37'33
morning set	7509 Nov 12 22:37	15°♿52'29			7510 Oct 09 03:42	0°♿	
	7509 Nov 20 00:20	0°♿		asc. node	7510 Oct 17 03:38	9°♿59'00	
					7510 Oct 27 23:08	0°♿	
superior conj	7509 Nov 21 00:11	1°♿56'49	1°27'06	morning set	7510 Oct 28 05:38	0°♿33'22	
minimum elong	7509 Nov 21 02:55	2°♿10'09	1°26'56				
max. Earth dist.	7509 Nov 27 11:20	14°♿10'44	1.38113 AU	superior conj	7510 Nov 04 17:12	16°♿01'29	1°38'14
evening rise	7509 Dec 01 05:01	20°♿52'20		minimum elong	7510 Nov 04 18:37	16°♿08'41	1°38'15
desc. node	7509 Dec 04 08:37	26°♿18'06		max. Earth dist.	7510 Nov 09 19:05	26°♿08'21	1.36078 AU
	7509 Dec 06 13:41	0°♿			7510 Nov 11 19:27	0°♿	
	7509 Dec 26 21:31	0°♿		evening rise	7510 Nov 13 17:19	3°♿34'26	
evening max el	7510 Jan 05 18:08	11°♿23'39	25°01'36	desc. node	7510 Nov 21 05:40	16°♿48'49	
retrograde	7510 Jan 17 14:37	18°♿16'16			7510 Nov 29 12:39	0°♿	
evening set	7510 Jan 23 07:08	15°♿54'26		evening max el	7510 Dec 19 07:03	25°♿09'15	26°09'15
asc. node	7510 Jan 26 05:51	12°♿50'14			7510 Dec 25 05:13	0°♿	
min. Earth dist.	7510 Jan 27 19:02	10°♿52'58	0.67676 AU	retrograde	7510 Dec 31 23:23	2°♿20'51	
inferior conj	7510 Jan 28 21:19	9°♿26'49	0°52'11		7511 Jan 06 23:05	30°♿	
minimum elong	7510 Jan 28 20:06	9°♿30'51	0°51'46	evening set	7511 Jan 07 04:36	29°♿48'47	
morning rise	7510 Feb 03 09:19	3°♿29'53		min. Earth dist.	7511 Jan 11 09:45	25°♿21'59	0.66778 AU
direct	7510 Feb 06 23:24	2°♿15'56		inferior conj	7511 Jan 12 23:28	23°♿25'33	-0°02'53
morning max el	7510 Feb 14 05:25	6°♿18'24	19°34'56	minimum elong	7511 Jan 12 23:32	23°♿25'20	0°02'46
greatest brilliancy	7510 Feb 27 00:39	23°♿05'35	-0.7m	transit middle	7511 Jan 12 23:32	23°♿25'20	0°02'46
desc. node	7510 Mar 02 08:00	28°♿01'46		transit begin	7511 Jan 12 20:43	23°♿34'03	
	7510 Mar 03 15:20	0°♿		transit end	7511 Jan 13 02:21	23°♿16'37	
morning set	7510 Mar 11 11:42	12°♿00'06		asc. node	7511 Jan 13 02:54	23°♿14'55	

morning rise	7511 Jan 18 19:09	17° $\text{♁}$ 37'56		asc. node	7511 Dec 30 23:58	3° $\text{♁}$ 53'09	
direct	7511 Jan 21 22:05	16° $\text{♁}$ 42'30		morning rise	7512 Jan 03 00:54	1° $\text{♁}$ 40'44	
morning max el	7511 Jan 28 14:55	20° $\text{♁}$ 21'26	18°43'23	direct	7512 Jan 05 18:38	1° $\text{♁}$ 00'03	
	7511 Feb 05 06:06	0° $\text{♁}$		morning max el	7512 Jan 12 05:38	4° $\text{♁}$ 26'34	18°08'18
desc. node	7511 Feb 17 05:00	18° $\text{♁}$ 20'52			7512 Jan 29 15:03	0° $\text{♁}$	
morning set	7511 Feb 19 00:32	21° $\text{♁}$ 11'41		morning set	7512 Jan 30 18:11	1° $\text{♁}$ 50'40	
	7511 Feb 24 15:13	0° $\text{♁}$		desc. node	7512 Feb 04 01:59	8° $\text{♁}$ 52'25	
max. Earth dist.	7511 Mar 06 09:57	15° $\text{♁}$ 18'45	1.45371 AU				
superior conj	7511 Mar 07 08:39	16° $\text{♁}$ 47'45	-1°48'09	superior conj	7512 Feb 14 14:22	25° $\text{♁}$ 39'42	-1°10'27
minimum elong	7511 Mar 06 23:31	16° $\text{♁}$ 11'56	1°47'24	minimum elong	7512 Feb 14 06:13	25° $\text{♁}$ 07'35	1°09'24
	7511 Mar 15 17:40	0° $\text{♁}$		max. Earth dist.	7512 Feb 17 05:10	29° $\text{♁}$ 46'32	1.45388 AU
evening rise	7511 Mar 22 18:36	11° $\text{♁}$ 14'12			7512 Feb 17 08:36	0° $\text{♁}$	
greatest brilliancy	7511 Mar 30 01:52	22° $\text{♁}$ 57'25	-0.9m	evening rise	7512 Mar 01 18:54	20° $\text{♁}$ 55'08	
	7511 Apr 03 13:29	0° $\text{♁}$			7512 Mar 07 15:33	0° $\text{♁}$	
asc. node	7511 Apr 11 02:00	10° $\text{♁}$ 30'34		greatest brilliancy	7512 Mar 14 08:32	10° $\text{♁}$ 15'18	-0.7m
evening max el	7511 Apr 12 22:14	12° $\text{♁}$ 32'07	18°43'17	evening max el	7512 Mar 26 05:51	26° $\text{♁}$ 07'47	19°28'13
retrograde	7511 Apr 19 13:22	16° $\text{♁}$ 11'42		asc. node	7512 Mar 27 23:04	27° $\text{♁}$ 43'55	
evening set	7511 Apr 22 19:27	15° $\text{♁}$ 11'11			7512 Mar 31 20:23	0° $\text{♁}$	
inferior conj	7511 Apr 28 10:47	9° $\text{♁}$ 32'45	3°25'27	retrograde	7512 Apr 02 10:25	0° $\text{♁}$ 13'52	
minimum elong	7511 Apr 28 11:01	9° $\text{♁}$ 32'01	3°25'22		7512 Apr 03 23:33	30° $\text{♁}$	
min. Earth dist.	7511 Apr 30 08:09	7° $\text{♁}$ 13'27	0.65421 AU	evening set	7512 Apr 06 00:21	28° $\text{♁}$ 58'55	
morning rise	7511 May 04 01:56	3° $\text{♁}$ 16'07		inferior conj	7512 Apr 11 10:41	23° $\text{♁}$ 05'23	3°21'25
direct	7511 May 10 15:16	0° $\text{♁}$ 28'26		minimum elong	7512 Apr 11 09:43	23° $\text{♁}$ 08'34	3°21'17
desc. node	7511 May 16 04:31	2° $\text{♁}$ 06'26		min. Earth dist.	7512 Apr 12 16:58	21° $\text{♁}$ 26'01	0.66799 AU
morning max el	7511 May 23 21:57	8° $\text{♁}$ 19'25	26°56'51	morning rise	7512 Apr 16 18:43	16° $\text{♁}$ 48'13	
	7511 Jun 09 18:40	0° $\text{♁}$		direct	7512 Apr 22 22:11	14° $\text{♁}$ 04'29	
	7511 Jun 27 12:07	0° $\text{♁}$		desc. node	7512 May 02 01:31	18° $\text{♁}$ 26'51	
morning set	7511 Jun 28 15:29	2° $\text{♁}$ 10'17		morning max el	7512 May 05 07:49	21° $\text{♁}$ 29'41	25°46'48
max. Earth dist.	7511 Jul 02 23:49	10° $\text{♁}$ 43'24	1.33995 AU		7512 May 12 17:04	0° $\text{♁}$	
superior conj	7511 Jul 07 04:05	19° $\text{♁}$ 18'45	-0°08'57		7512 Jun 01 23:58	0° $\text{♁}$	
minimum elong	7511 Jul 07 04:34	19° $\text{♁}$ 21'17	0°08'57	morning set	7512 Jun 10 11:12	14° $\text{♁}$ 48'39	
behind sun begin	7511 Jul 06 23:49	18° $\text{♁}$ 56'26		max. Earth dist.	7512 Jun 14 05:40	21° $\text{♁}$ 51'45	1.35693 AU
behind sun end	7511 Jul 07 09:19	19° $\text{♁}$ 46'09			7512 Jun 18 09:49	0° $\text{♁}$	
asc. node	7511 Jul 08 01:13	21° $\text{♁}$ 09'36		superior conj	7512 Jun 19 21:26	2° $\text{♁}$ 58'18	-0°39'46
	7511 Jul 12 05:24	0° $\text{♁}$		minimum elong	7512 Jun 19 23:46	3° $\text{♁}$ 10'01	0°39'25
evening rise	7511 Jul 14 12:59	4° $\text{♁}$ 53'18		asc. node	7512 Jun 23 22:14	11° $\text{♁}$ 11'48	
	7511 Jul 28 07:04	0° $\text{♁}$		evening rise	7512 Jun 27 19:56	19° $\text{♁}$ 13'46	
evening max el	7511 Aug 03 13:15	7° $\text{♁}$ 35'24	21°31'11		7512 Jul 03 06:13	0° $\text{♁}$	
desc. node	7511 Aug 12 03:42	13° $\text{♁}$ 08'17		evening max el	7512 Jul 15 17:58	18° $\text{♁}$ 33'07	20°10'19
retrograde	7511 Aug 15 20:14	13° $\text{♁}$ 40'59		retrograde	7512 Jul 26 09:28	23° $\text{♁}$ 47'39	
evening set	7511 Aug 18 09:01	13° $\text{♁}$ 26'21		evening set	7512 Jul 28 07:34	23° $\text{♁}$ 38'10	
inferior conj	7511 Aug 27 15:03	9° $\text{♁}$ 27'33	-4°17'05	desc. node	7512 Jul 29 00:45	23° $\text{♁}$ 29'59	
minimum elong	7511 Aug 27 05:42	9° $\text{♁}$ 40'38	4°14'41	inferior conj	7512 Aug 06 09:57	19° $\text{♁}$ 39'50	-2°31'09
min. Earth dist.	7511 Aug 27 14:30	9° $\text{♁}$ 28'18	0.54728 AU	minimum elong	7512 Aug 06 03:02	19° $\text{♁}$ 50'06	2°28'44
morning rise	7511 Sep 05 03:22	5° $\text{♁}$ 36'13		min. Earth dist.	7512 Aug 08 01:27	18° $\text{♁}$ 41'20	0.55002 AU
direct	7511 Sep 08 16:43	5° $\text{♁}$ 08'46		morning rise	7512 Aug 14 21:10	15° $\text{♁}$ 27'19	
morning max el	7511 Sep 21 03:37	11° $\text{♁}$ 01'59	22°11'51	direct	7512 Aug 19 03:57	14° $\text{♁}$ 47'32	
asc. node	7511 Oct 04 00:39	28° $\text{♁}$ 30'00		morning max el	7512 Sep 01 17:45	21° $\text{♁}$ 26'01	23°56'46
	7511 Oct 04 20:55	0° $\text{♁}$			7512 Sep 09 04:00	0° $\text{♁}$	
morning set	7511 Oct 12 15:54	15° $\text{♁}$ 21'47		asc. node	7512 Sep 19 21:40	17° $\text{♁}$ 34'22	
superior conj	7511 Oct 19 18:42	0° $\text{♁}$ 29'44	1°41'54	morning set	7512 Sep 26 03:33	0° $\text{♁}$ 12'35	
minimum elong	7511 Oct 19 18:46	0° $\text{♁}$ 30'00	1°41'58		7512 Sep 26 01:11	0° $\text{♁}$	
	7511 Oct 19 13:05	0° $\text{♁}$		superior conj	7512 Oct 03 01:50	15° $\text{♁}$ 12'46	1°39'01
max. Earth dist.	7511 Oct 23 09:31	8° $\text{♁}$ 01'40	1.34356 AU	minimum elong	7512 Oct 03 00:44	15° $\text{♁}$ 06'52	1°38'59
evening rise	7511 Oct 27 21:16	16° $\text{♁}$ 58'44		max. Earth dist.	7512 Oct 05 08:37	20° $\text{♁}$ 07'55	1.33050 AU
	7511 Nov 03 22:42	0° $\text{♁}$			7512 Oct 10 02:09	0° $\text{♁}$	
desc. node	7511 Nov 08 02:42	7° $\text{♁}$ 04'46		evening rise	7512 Oct 10 13:04	0° $\text{♁}$ 55'10	
	7511 Nov 23 22:01	0° $\text{♁}$		desc. node	7512 Oct 24 23:45	26° $\text{♁}$ 59'12	
evening max el	7511 Dec 01 20:06	8° $\text{♁}$ 47'18	26°59'53		7512 Oct 26 21:53	0° $\text{♁}$	
retrograde	7511 Dec 15 02:34	16° $\text{♁}$ 06'45		evening max el	7512 Nov 13 08:20	22° $\text{♁}$ 07'10	27°26'19
evening set	7511 Dec 21 18:58	13° $\text{♁}$ 29'46		retrograde	7512 Nov 26 23:19	29° $\text{♁}$ 25'41	
min. Earth dist.	7511 Dec 25 18:10	9° $\text{♁}$ 37'21	0.65522 AU	evening set	7512 Dec 03 23:45	26° $\text{♁}$ 51'19	
inferior conj	7511 Dec 27 19:29	7° $\text{♁}$ 16'38	-1°04'26	min. Earth dist.	7512 Dec 07 18:05	23° $\text{♁}$ 31'23	0.63934 AU
minimum elong	7511 Dec 27 21:21	7° $\text{♁}$ 11'17	1°03'33	inferior conj	7512 Dec 10 06:51	20° $\text{♁}$ 54'17	-2°10'54
				minimum elong	7512 Dec 10 10:53	20° $\text{♁}$ 43'51	2°09'11

morning rise	7512 Dec 16 23:41	15°♊33'08		inferior conj	7513 Nov 23 06:36	4°♊10'53	-3°19'11
asc. node	7512 Dec 16 21:01	15°♊35'52		minimum elong	7513 Nov 23 12:42	3°♊56'51	3°16'59
direct	7512 Dec 19 10:30	15°♊03'14			7513 Nov 28 13:42	30°♋♌	
morning max el	7512 Dec 25 22:44	18°♊26'47	17°50'24	morning rise	7513 Nov 30 11:45	29°♋08'01	
	7513 Jan 03 10:02	0°♋		direct	7513 Dec 02 18:25	28°♋45'17	
morning set	7513 Jan 11 15:42	13°♋51'26		asc. node	7513 Dec 03 18:02	28°♋49'40	
desc. node	7513 Jan 20 22:57	29°♋32'21			7513 Dec 06 20:00	0°♌	
	7513 Jan 21 05:39	0°♌		morning max el	7513 Dec 09 15:10	2°♌14'29	17°50'30
				morning set	7513 Dec 25 10:47	26°♌54'11	
superior conj	7513 Jan 24 12:05	5°♌21'23	-0°25'21		7513 Dec 27 04:14	0°♍	
minimum elong	7513 Jan 24 09:15	5°♌09'49	0°24'50	superior conj	7514 Jan 05 11:16	16°♍17'38	0°17'12
max. Earth dist.	7513 Jan 30 00:00	14°♌11'08	1.44680 AU	minimum elong	7514 Jan 05 12:51	16°♍24'21	0°17'03
evening rise	7513 Feb 09 06:41	0°♎12'50		desc. node	7514 Jan 07 19:57	20°♍17'20	
	7513 Feb 09 03:20	0°♎		max. Earth dist.	7514 Jan 12 15:55	28°♍16'09	1.43320 AU
	7513 Mar 01 09:46	0°♏			7514 Jan 13 17:33	0°♐	
evening max el	7513 Mar 09 08:14	9°♏45'03	20°28'01	evening rise	7514 Jan 19 21:09	9°♐45'27	
asc. node	7513 Mar 14 20:07	13°♏53'26			7514 Feb 02 07:28	0°♑	
retrograde	7513 Mar 17 08:48	14°♏26'24		evening max el	7514 Feb 20 05:10	23°♑23'51	21°39'22
evening set	7513 Mar 21 07:40	12°♏56'27		retrograde	7514 Mar 01 06:35	28°♑45'51	
inferior conj	7513 Mar 26 15:35	6°♏49'39	3°05'18	asc. node	7514 Mar 01 17:10	28°♑44'50	
minimum elong	7513 Mar 26 13:46	6°♏55'52	3°04'59	evening set	7514 Mar 05 15:40	27°♑00'35	
min. Earth dist.	7513 Mar 27 07:48	5°♏54'12	0.67742 AU	inferior conj	7514 Mar 10 23:18	20°♑43'05	2°39'04
morning rise	7513 Mar 31 19:39	0°♏34'19		minimum elong	7514 Mar 10 21:03	20°♑50'53	2°38'32
	7513 Apr 01 11:45	30°♒♓		min. Earth dist.	7514 Mar 11 02:41	20°♑31'19	0.68248 AU
direct	7513 Apr 06 10:21	28°♒04'13		morning rise	7514 Mar 16 02:17	14°♒30'58	
	7513 Apr 11 23:52	0°♓		direct	7514 Mar 21 02:50	12°♒20'36	
morning max el	7513 Apr 17 16:38	4°♓48'32	24°21'49	morning max el	7514 Mar 31 02:31	18°♒15'02	22°52'05
desc. node	7513 Apr 18 22:28	6°♓06'11		desc. node	7514 Apr 05 19:26	24°♒42'56	
	7513 May 07 01:43	0°♈			7514 Apr 09 21:51	0°♓	
morning set	7513 May 23 11:42	26°♈29'10			7514 Apr 30 04:35	0°♈	
	7513 May 25 11:38	0°♉		morning set	7514 May 04 11:27	6°♈58'33	
max. Earth dist.	7513 May 27 03:14	2°♉57'18	1.37767 AU	max. Earth dist.	7514 May 08 23:40	14°♈34'18	1.40004 AU
superior conj	7513 Jun 03 03:18	16°♉01'03	-1°11'01	superior conj	7514 May 16 17:38	28°♈17'30	-1°39'48
minimum elong	7513 Jun 03 07:34	16°♉21'35	1°10'26	minimum elong	7514 May 16 23:11	28°♈42'55	1°39'15
	7513 Jun 10 06:05	0°♊			7514 May 17 16:00	0°♉	
asc. node	7513 Jun 10 19:15	1°♊05'25		evening rise	7514 May 26 12:46	16°♉42'01	
evening rise	7513 Jun 11 20:52	3°♊12'32		asc. node	7514 May 28 16:16	20°♉46'19	
	7513 Jun 28 05:48	0°♋			7514 Jun 02 17:27	0°♊	
evening max el	7513 Jun 28 11:27	0°♋14'06	19°09'12	evening max el	7514 Jun 11 15:04	12°♊34'41	18°28'48
retrograde	7513 Jul 07 10:34	4°♋39'15		retrograde	7514 Jun 19 06:31	16°♊23'04	
evening set	7513 Jul 09 08:46	4°♋27'52		evening set	7514 Jun 21 10:55	16°♊05'22	
desc. node	7513 Jul 15 21:47	1°♋30'51		inferior conj	7514 Jun 29 01:10	11°♊34'05	1°05'02
inferior conj	7513 Jul 17 18:59	0°♋16'07	-0°34'17	minimum elong	7514 Jun 29 03:23	11°♊29'43	1°04'11
minimum elong	7513 Jul 17 17:30	0°♋18'37	0°33'49	min. Earth dist.	7514 Jul 02 10:03	8°♊54'52	0.58036 AU
	7513 Jul 18 04:29	30°♌♍		desc. node	7514 Jul 02 18:48	8°♊38'32	
min. Earth dist.	7513 Jul 20 15:16	28°♌21'13	0.56185 AU	morning rise	7514 Jul 06 16:28	6°♌10'46	
morning rise	7513 Jul 25 23:13	25°♌28'48		direct	7514 Jul 12 15:02	4°♌39'59	
direct	7513 Jul 31 02:25	24°♌27'46		morning max el	7514 Jul 27 00:29	12°♌19'51	26°57'49
	7513 Aug 12 09:39	0°♍			7514 Aug 09 21:04	0°♎	
morning max el	7513 Aug 14 06:44	1°♍42'00	25°37'39	asc. node	7514 Aug 24 15:38	26°♎48'50	
	7513 Sep 03 03:11	0°♎		morning set	7514 Aug 26 00:27	29°♎40'34	
asc. node	7513 Sep 06 18:39	7°♎02'51			7514 Aug 26 04:07	0°♏	
morning set	7513 Sep 10 14:57	15°♎00'21		superior conj	7514 Sep 01 23:59	14°♏54'18	1°16'26
	7513 Sep 17 11:42	0°♏		minimum elong	7514 Sep 01 21:45	14°♏41'53	1°16'05
superior conj	7513 Sep 17 12:13	0°♏02'56	1°30'21	max. Earth dist.	7514 Sep 02 00:49	14°♏58'53	1.31759 AU
minimum elong	7513 Sep 17 10:21	29°♏52'36	1°30'09	evening rise	7514 Sep 08 19:40	29°♏47'59	
max. Earth dist.	7513 Sep 18 14:47	2°♏29'03	1.32183 AU		7514 Sep 08 21:57	0°♐	
evening rise	7513 Sep 24 13:25	15°♏14'05			7514 Sep 25 06:42	0°♑	
	7513 Oct 02 02:11	0°♑		desc. node	7514 Sep 28 17:52	5°♑03'35	
desc. node	7513 Oct 11 20:49	16°♑22'59		evening max el	7514 Oct 08 20:26	16°♑58'07	26°45'00
	7513 Oct 22 01:02	0°♒		retrograde	7514 Oct 22 18:09	24°♑06'33	
evening max el	7513 Oct 26 17:23	4°♒55'06	27°22'31	evening set	7514 Oct 29 14:34	22°♑07'30	
retrograde	7513 Nov 09 12:48	12°♒08'38		min. Earth dist.	7514 Nov 02 10:20	19°♑31'12	0.59995 AU
evening set	7513 Nov 16 15:41	9°♒46'25		inferior conj	7514 Nov 05 15:14	16°♑56'41	-4°23'22
min. Earth dist.	7513 Nov 20 07:39	6°♒53'49	0.62056 AU				

minimum elong	7514 Nov 05 22:18	16° $\mathbb{M}$ 42'26	4°21'29	inferior conj	7515 Oct 18 05:29	29° $\Omega$ 02'52	-5°12'45
morning rise	7514 Nov 13 08:20	12° $\mathbb{M}$ 15'25		minimum elong	7515 Oct 18 10:43	28° $\Omega$ 53'42	5°12'00
direct	7514 Nov 15 14:10	11° $\mathbb{M}$ 56'41		morning rise	7515 Oct 26 08:12	24° $\Omega$ 44'30	
asc. node	7514 Nov 20 15:03	13° $\mathbb{M}$ 36'26		direct	7515 Oct 28 17:26	24° $\Omega$ 26'54	
morning max el	7514 Nov 23 03:33	15° $\mathbb{M}$ 40'21	18°09'44	morning max el	7515 Nov 06 08:20	28° $\Omega$ 34'49	18°49'39
	7514 Dec 03 02:22	0° $\mathbb{A}$		asc. node	7515 Nov 07 12:05	29° $\Omega$ 45'28	
morning set	7514 Dec 08 21:11	10° $\mathbb{A}$ 39'22			7515 Nov 07 17:25	0° $\mathbb{M}$	
				morning set	7515 Nov 22 18:12	24° $\mathbb{M}$ 53'40	
superior conj	7514 Dec 18 11:05	28° $\mathbb{A}$ 24'30	0°51'45		7515 Nov 25 08:37	0° $\mathbb{A}$	
minimum elong	7514 Dec 18 14:30	28° $\mathbb{A}$ 39'50	0°51'22				
	7514 Dec 19 08:24	0° $\mathbb{Z}$		superior conj	7515 Dec 01 06:47	11° $\mathbb{A}$ 28'14	1°16'49
desc. node	7514 Dec 25 16:58	11° $\mathbb{Z}$ 03'16		minimum elong	7515 Dec 01 10:05	11° $\mathbb{A}$ 43'51	1°16'32
max. Earth dist.	7514 Dec 26 02:44	11° $\mathbb{Z}$ 44'28	1.41466 AU	max. Earth dist.	7515 Dec 08 08:54	24° $\mathbb{A}$ 28'36	1.39351 AU
evening rise	7514 Dec 31 03:23	20° $\mathbb{Z}$ 02'40			7515 Dec 11 12:59	0° $\mathbb{Z}$	
	7515 Jan 06 10:36	0° $\approx$		evening rise	7515 Dec 12 07:28	1° $\mathbb{Z}$ 18'54	
	7515 Jan 27 15:57	0° $\mathbb{H}$		desc. node	7515 Dec 12 14:01	1° $\mathbb{Z}$ 46'41	
evening max el	7515 Feb 02 21:32	7° $\mathbb{H}$ 04'34	22°57'53		7515 Dec 30 18:05	0° $\approx$	
retrograde	7515 Feb 13 02:16	13° $\mathbb{H}$ 07'23		evening max el	7516 Jan 16 11:17	20° $\approx$ 48'51	24°17'44
asc. node	7515 Feb 16 14:13	12° $\mathbb{H}$ 05'48		retrograde	7516 Jan 27 18:29	27° $\approx$ 26'29	
evening set	7515 Feb 17 22:46	11° $\mathbb{H}$ 07'05		evening set	7516 Feb 02 03:25	25° $\approx$ 12'09	
inferior conj	7515 Feb 23 07:51	4° $\mathbb{H}$ 42'08	2°03'57	asc. node	7516 Feb 03 11:17	23° $\approx$ 56'26	
minimum elong	7515 Feb 23 05:37	4° $\mathbb{H}$ 49'51	2°03'17	min. Earth dist.	7516 Feb 06 19:37	19° $\approx$ 50'34	0.68026 AU
min. Earth dist.	7515 Feb 22 23:21	5° $\mathbb{H}$ 11'29	0.68335 AU	inferior conj	7516 Feb 07 15:24	18° $\approx$ 44'00	1°20'39
	7515 Feb 27 00:25	30° $\mathbb{R}$ $\approx$		minimum elong	7516 Feb 07 13:39	18° $\approx$ 49'52	1°20'03
morning rise	7515 Feb 28 12:23	28° $\approx$ 34'34		morning rise	7516 Feb 12 23:58	12° $\approx$ 42'26	
direct	7515 Mar 04 22:48	26° $\approx$ 46'32		direct	7516 Feb 16 21:03	11° $\approx$ 16'34	
	7515 Mar 11 17:02	0° $\mathbb{H}$		morning max el	7516 Feb 24 14:17	15° $\approx$ 38'37	20°11'29
morning max el	7515 Mar 13 16:50	1° $\mathbb{H}$ 51'02	21°26'28		7516 Mar 06 22:04	0° $\mathbb{H}$	
desc. node	7515 Mar 23 16:26	14° $\mathbb{H}$ 00'53		desc. node	7516 Mar 09 13:26	3° $\mathbb{H}$ 48'51	
	7515 Apr 03 19:05	0° $\mathbb{Y}$		morning set	7516 Mar 23 06:56	24° $\mathbb{H}$ 31'13	
morning set	7515 Apr 14 07:25	16° $\mathbb{Y}$ 11'01			7516 Mar 26 19:37	0° $\mathbb{Y}$	
max. Earth dist.	7515 Apr 21 00:44	27° $\mathbb{Y}$ 01'51	1.42128 AU	max. Earth dist.	7516 Apr 02 08:54	10° $\mathbb{Y}$ 21'32	1.43872 AU
	7515 Apr 22 19:45	0° $\mathbb{B}$					
				superior conj	7516 Apr 08 05:30	19° $\mathbb{Y}$ 51'27	-2°11'16
superior conj	7515 Apr 28 11:41	9° $\mathbb{B}$ 36'45	-2°01'49	minimum elong	7516 Apr 08 05:52	19° $\mathbb{Y}$ 52'59	2°11'18
minimum elong	7515 Apr 28 16:28	9° $\mathbb{B}$ 57'27	2°01'34		7516 Apr 14 07:26	0° $\mathbb{B}$	
evening rise	7515 May 09 15:45	29° $\mathbb{B}$ 32'28		evening rise	7516 Apr 21 01:17	11° $\mathbb{B}$ 33'53	
	7515 May 09 21:48	0° $\mathbb{I}$		asc. node	7516 May 01 10:21	29° $\mathbb{B}$ 07'41	
asc. node	7515 May 15 13:18	10° $\mathbb{I}$ 09'11			7516 May 01 23:45	0° $\mathbb{I}$	
evening max el	7515 May 26 01:08	25° $\mathbb{I}$ 26'07	18°08'34	evening max el	7516 May 08 14:10	8° $\mathbb{I}$ 39'14	18°07'34
retrograde	7515 Jun 01 20:28	28° $\mathbb{I}$ 53'13		retrograde	7516 May 15 00:16	12° $\mathbb{I}$ 00'13	
evening set	7515 Jun 04 08:14	28° $\mathbb{I}$ 25'54		evening set	7516 May 17 19:17	11° $\mathbb{I}$ 20'54	
inferior conj	7515 Jun 11 04:24	23° $\mathbb{I}$ 34'25	2°16'00	inferior conj	7516 May 24 01:10	6° $\mathbb{I}$ 10'06	2°59'42
minimum elong	7515 Jun 11 07:33	23° $\mathbb{I}$ 27'07	2°15'03	minimum elong	7516 May 24 03:34	6° $\mathbb{I}$ 03'46	2°59'11
min. Earth dist.	7515 Jun 14 11:50	20° $\mathbb{I}$ 32'21	0.60228 AU	min. Earth dist.	7516 May 26 22:07	3° $\mathbb{I}$ 09'42	0.62449 AU
morning rise	7515 Jun 18 04:10	17° $\mathbb{I}$ 44'07		morning rise	7516 May 30 10:09	0° $\mathbb{I}$ 03'44	
desc. node	7515 Jun 19 15:49	16° $\mathbb{I}$ 54'32			7516 May 30 12:12	30° $\mathbb{R}$ $\mathbb{B}$	
direct	7515 Jun 24 16:46	15° $\mathbb{I}$ 40'54		desc. node	7516 Jun 05 12:52	27° $\mathbb{B}$ 35'26	
morning max el	7515 Jul 09 00:58	23° $\mathbb{I}$ 37'02	27°44'51	direct	7516 Jun 06 04:55	27° $\mathbb{B}$ 34'02	
	7515 Jul 14 18:28	0° $\mathbb{G}$			7516 Jun 13 12:02	0° $\mathbb{I}$	
	7515 Aug 03 02:23	0° $\mathbb{Q}$		morning max el	7516 Jun 20 07:02	5° $\mathbb{I}$ 36'25	27°53'45
morning set	7515 Aug 10 06:20	14° $\mathbb{Q}$ 07'50			7516 Jul 08 16:27	0° $\mathbb{G}$	
asc. node	7515 Aug 11 12:39	16° $\mathbb{Q}$ 46'39		morning set	7516 Jul 24 06:28	28° $\mathbb{G}$ 14'56	
max. Earth dist.	7515 Aug 16 10:55	27° $\mathbb{Q}$ 26'32	1.31780 AU		7516 Jul 25 03:04	0° $\mathbb{Q}$	
				asc. node	7516 Jul 28 09:39	6° $\mathbb{Q}$ 50'42	
superior conj	7515 Aug 17 11:20	29° $\mathbb{Q}$ 41'14	0°57'45	max. Earth dist.	7516 Jul 29 17:09	9° $\mathbb{Q}$ 39'16	1.32265 AU
minimum elong	7515 Aug 17 09:12	29° $\mathbb{Q}$ 29'25	0°57'19				
	7515 Aug 17 14:44	0° $\mathbb{P}$		superior conj	7516 Jul 31 20:25	14° $\mathbb{Q}$ 16'57	0°34'43
evening rise	7515 Aug 24 05:35	14° $\mathbb{P}$ 30'10		minimum elong	7516 Jul 31 18:53	14° $\mathbb{Q}$ 08'37	0°34'21
	7515 Aug 31 22:16	0° $\mathbb{L}$		evening rise	7516 Aug 07 17:08	29° $\mathbb{Q}$ 13'32	
desc. node	7515 Sep 15 14:55	22° $\mathbb{L}$ 43'58			7516 Aug 08 01:50	0° $\mathbb{P}$	
evening max el	7515 Sep 20 15:39	28° $\mathbb{L}$ 11'05	25°35'43		7516 Aug 24 19:19	0° $\mathbb{L}$	
	7515 Sep 22 16:23	0° $\mathbb{M}$		evening max el	7516 Sep 01 04:27	8° $\mathbb{L}$ 41'26	24°03'50
retrograde	7515 Oct 04 14:01	5° $\mathbb{M}$ 14'30		desc. node	7516 Sep 01 12:00	8° $\mathbb{L}$ 59'25	
evening set	7515 Oct 10 15:34	3° $\mathbb{M}$ 48'44		retrograde	7516 Sep 14 21:49	15° $\mathbb{L}$ 34'21	
min. Earth dist.	7515 Oct 15 03:50	1° $\mathbb{M}$ 11'32	0.57941 AU	evening set	7516 Sep 19 15:48	14° $\mathbb{L}$ 44'42	
	7515 Oct 16 21:07	30° $\mathbb{R}$ $\mathbb{L}$		min. Earth dist.	7516 Sep 25 15:10	11° $\mathbb{L}$ 48'05	0.56172 AU

inferior conj	7516 Sep 27 23:24	10° $\Omega$ 21'45	-5°30'53	evening set	7517 Aug 29 22:46	25° $\Pi$ 00'57	
minimum elong	7516 Sep 27 22:47	10° $\Omega$ 22'42	5°30'51	min. Earth dist.	7517 Sep 06 23:49	21° $\Pi$ 29'39	0.55017 AU
morning rise	7516 Oct 06 07:58	6° $\Omega$ 23'27		inferior conj	7517 Sep 07 23:36	20° $\Pi$ 56'05	-4°59'49
direct	7516 Oct 09 01:30	6° $\Omega$ 04'09		minimum elong	7517 Sep 07 16:02	21° $\Pi$ 06'46	4°58'30
morning max el	7516 Oct 19 01:59	10° $\Omega$ 46'37	19°51'45	morning rise	7517 Sep 16 11:05	17° $\Pi$ 07'46	
asc. node	7516 Oct 24 09:07	17° $\Omega$ 00'41		direct	7517 Sep 19 16:45	16° $\Pi$ 44'06	
	7516 Nov 01 03:23	0° $\mathbb{M}$		morning max el	7517 Oct 01 06:42	22° $\Pi$ 09'38	21°15'39
morning set	7516 Nov 05 22:20	9° $\mathbb{M}$ 26'49			7517 Oct 07 22:01	0° $\underline{\Omega}$	
				asc. node	7517 Oct 11 06:08	5° $\underline{\Omega}$ 07'27	
superior conj	7516 Nov 13 17:14	25° $\mathbb{M}$ 13'45	1°32'47	morning set	7517 Oct 21 06:57	24° $\underline{\Omega}$ 11'21	
minimum elong	7516 Nov 13 19:26	25° $\mathbb{M}$ 24'44	1°32'42		7517 Oct 24 01:32	0° $\mathbb{M}$	
	7516 Nov 16 03:22	0° $\mathbb{X}$					
max. Earth dist.	7516 Nov 19 14:35	6° $\mathbb{X}$ 37'39	1.37223 AU	superior conj	7517 Oct 28 14:12	9° $\mathbb{M}$ 29'03	1°40'39
evening rise	7516 Nov 23 08:56	13° $\mathbb{X}$ 32'00		minimum elong	7517 Oct 28 15:01	9° $\mathbb{M}$ 33'18	1°40'41
desc. node	7516 Nov 28 11:03	22° $\mathbb{X}$ 23'18		max. Earth dist.	7517 Nov 02 01:02	18° $\mathbb{M}$ 31'56	1.35303 AU
	7516 Dec 03 02:16	0° $\mathbb{Z}$		evening rise	7517 Nov 06 04:21	26° $\mathbb{M}$ 32'59	
	7516 Dec 24 16:31	0° $\approx$			7517 Nov 08 00:45	0° $\mathbb{X}$	
evening max el	7516 Dec 29 00:24	4° $\approx$ 36'02	25°32'02	desc. node	7517 Nov 15 08:05	12° $\mathbb{X}$ 48'26	
retrograde	7517 Jan 10 06:10	11° $\approx$ 37'58			7517 Nov 26 11:46	0° $\mathbb{Z}$	
evening set	7517 Jan 16 04:01	9° $\approx$ 11'39		evening max el	7517 Dec 11 13:36	18° $\mathbb{Z}$ 20'12	26°33'22
asc. node	7517 Jan 20 08:22	4° $\approx$ 39'31		retrograde	7517 Dec 24 12:24	25° $\mathbb{Z}$ 35'29	
min. Earth dist.	7517 Jan 20 13:04	4° $\approx$ 24'36	0.67340 AU	evening set	7517 Dec 30 22:43	23° $\mathbb{Z}$ 00'44	
inferior conj	7517 Jan 21 20:06	2° $\approx$ 45'11	0°29'43	min. Earth dist.	7518 Jan 04 01:21	18° $\mathbb{Z}$ 48'40	0.66291 AU
minimum elong	7517 Jan 21 19:21	2° $\approx$ 47'34	0°29'29	inferior conj	7518 Jan 05 19:54	16° $\mathbb{Z}$ 41'22	-0°28'16
	7517 Jan 24 01:35	30° $\mathbb{R}$ $\mathbb{Z}$		minimum elong	7518 Jan 05 20:41	16° $\mathbb{Z}$ 39'02	0°27'50
morning rise	7517 Jan 27 11:04	26° $\mathbb{Z}$ 51'39		asc. node	7518 Jan 07 05:26	15° $\mathbb{Z}$ 02'46	
direct	7517 Jan 30 20:13	25° $\mathbb{Z}$ 45'53		morning rise	7518 Jan 11 19:29	10° $\mathbb{Z}$ 58'18	
morning max el	7517 Feb 06 19:39	29° $\mathbb{Z}$ 36'57	19°10'54	direct	7518 Jan 14 18:22	10° $\mathbb{Z}$ 09'27	
	7517 Feb 07 04:48	0° $\approx$		morning max el	7518 Jan 21 07:38	13° $\mathbb{Z}$ 41'30	18°26'22
greatest brilliancy	7517 Feb 20 05:23	17° $\approx$ 33'49	-0.7m		7518 Feb 02 05:35	0° $\approx$	
desc. node	7517 Feb 24 10:26	23° $\approx$ 58'37		morning set	7518 Feb 10 08:42	12° $\approx$ 53'21	
	7517 Feb 28 08:15	0° $\mathbb{H}$		desc. node	7518 Feb 11 07:24	14° $\approx$ 23'41	
morning set	7517 Mar 02 08:10	3° $\mathbb{H}$ 05'21			7518 Feb 21 04:09	0° $\mathbb{H}$	
max. Earth dist.	7517 Mar 15 23:55	24° $\mathbb{H}$ 23'21	1.45029 AU				
				superior conj	7518 Feb 26 04:18	7° $\mathbb{H}$ 51'13	-1°33'47
superior conj	7517 Mar 18 23:36	29° $\mathbb{H}$ 06'28	-2°02'27	minimum elong	7518 Feb 25 18:42	7° $\mathbb{H}$ 13'39	1°32'46
minimum elong	7517 Mar 18 17:07	28° $\mathbb{H}$ 40'45	2°02'07	max. Earth dist.	7518 Feb 26 19:00	8° $\mathbb{H}$ 48'48	1.45476 AU
	7517 Mar 19 13:06	0° $\mathbb{Y}$			7518 Mar 12 07:03	0° $\mathbb{Y}$	
evening rise	7517 Apr 02 13:04	22° $\mathbb{Y}$ 38'49		evening rise	7518 Mar 14 01:22	2° $\mathbb{Y}$ 46'56	
	7517 Apr 07 00:05	0° $\mathbb{B}$		greatest brilliancy	7518 Mar 23 19:46	18° $\mathbb{Y}$ 09'08	-0.8m
asc. node	7517 Apr 18 07:25	17° $\mathbb{B}$ 34'07			7518 Mar 31 20:08	0° $\mathbb{B}$	
evening max el	7517 Apr 22 03:03	22° $\mathbb{B}$ 06'17	18°25'08	asc. node	7518 Apr 05 04:30	5° $\mathbb{B}$ 17'33	
retrograde	7517 Apr 28 13:41	25° $\mathbb{B}$ 35'06		evening max el	7518 Apr 05 13:06	5° $\mathbb{B}$ 39'43	19°00'23
evening set	7517 May 01 15:45	24° $\mathbb{B}$ 42'26		retrograde	7518 Apr 12 08:53	9° $\mathbb{B}$ 29'05	
inferior conj	7517 May 07 11:21	19° $\mathbb{B}$ 13'37	3°21'09	evening set	7518 Apr 15 18:19	8° $\mathbb{B}$ 22'17	
minimum elong	7517 May 07 12:23	19° $\mathbb{B}$ 10'34	3°20'59	inferior conj	7518 Apr 21 07:08	2° $\mathbb{B}$ 37'01	3°25'18
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morning rise	7517 May 13 08:07	12° $\mathbb{B}$ 59'20		min. Earth dist.	7518 Apr 22 21:52	0° $\mathbb{B}$ 34'18	0.66066 AU
direct	7517 May 20 01:17	10° $\mathbb{B}$ 14'43			7518 Apr 23 08:58	30° $\mathbb{R}$ $\mathbb{Y}$	
desc. node	7517 May 23 09:53	10° $\mathbb{B}$ 50'33		morning rise	7518 Apr 26 18:53	26° $\mathbb{Y}$ 19'58	
morning max el	7517 Jun 02 16:31	18° $\mathbb{B}$ 12'40	27°26'27	direct	7518 May 03 04:26	23° $\mathbb{Y}$ 32'56	
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	7517 Jul 01 14:25	0° $\mathbb{E}$			7518 May 14 20:47	0° $\mathbb{B}$	
morning set	7517 Jul 07 22:19	11° $\mathbb{E}$ 55'07		morning max el	7518 May 16 02:53	1° $\mathbb{B}$ 14'04	26°29'29
max. Earth dist.	7517 Jul 12 15:57	21° $\mathbb{E}$ 28'30	1.33232 AU		7518 Jun 06 15:33	0° $\mathbb{I}$	
asc. node	7517 Jul 15 06:40	26° $\mathbb{E}$ 57'12		morning set	7518 Jun 21 02:32	24° $\mathbb{I}$ 58'52	
					7518 Jun 23 17:33	0° $\mathbb{E}$	
superior conj	7517 Jul 16 01:17	28° $\mathbb{E}$ 36'04	0°07'55	max. Earth dist.	7518 Jun 25 04:23	2° $\mathbb{E}$ 50'20	1.34673 AU
minimum elong	7517 Jul 16 00:53	28° $\mathbb{E}$ 33'57	0°07'45				
behind sun begin	7517 Jul 15 20:04	28° $\mathbb{E}$ 08'19		superior conj	7518 Jun 29 23:35	12° $\mathbb{E}$ 31'39	-0°21'51
behind sun end	7517 Jul 16 05:42	28° $\mathbb{E}$ 59'37		minimum elong	7518 Jun 30 00:49	12° $\mathbb{E}$ 37'59	0°21'41
	7517 Jul 16 17:01	0° $\mathbb{Q}$		asc. node	7518 Jul 02 03:41	17° $\mathbb{E}$ 01'53	
evening rise	7517 Jul 23 04:30	13° $\mathbb{Q}$ 52'54		evening rise	7518 Jul 07 13:40	28° $\mathbb{E}$ 21'54	
	7517 Jul 31 07:14	0° $\mathbb{P}$			7518 Jul 08 08:37	0° $\mathbb{Q}$	
evening max el	7517 Aug 13 17:12	18° $\mathbb{P}$ 56'07	22°24'51	evening max el	7518 Jul 26 14:22	29° $\mathbb{Q}$ 30'07	20°54'25
desc. node	7517 Aug 19 09:02	23° $\mathbb{P}$ 19'23			7518 Jul 27 02:45	0° $\mathbb{P}$	
retrograde	7517 Aug 26 16:55	25° $\mathbb{P}$ 24'07		desc. node	7518 Aug 06 06:03	5° $\mathbb{P}$ 12'47	



































































































































retrograde	7518 Aug 07 05:20	5° $\cap$ 15'06	evening max el	7519 Jul 09 00:33	10° $\Omega$ 45'30	19°41'42
evening set	7518 Aug 09 09:44	5° $\cap$ 03'44	retrograde	7519 Jul 18 22:35	15° $\Omega$ 38'35	
inferior conj	7518 Aug 18 16:07	1° $\cap$ 06'38 -3°35'41	evening set	7519 Jul 20 19:13	15° $\Omega$ 29'01	
minimum elong	7518 Aug 18 07:03	1° $\cap$ 19'30 3°32'54	desc. node	7519 Jul 24 03:06	14° $\Omega$ 28'39	
min. Earth dist.	7518 Aug 19 09:07	0° $\cap$ 42'32 0.54726 AU	inferior conj	7519 Jul 29 15:42	11° $\Omega$ 26'06	-1°40'50
	7518 Aug 20 15:29	30° $\kappa$ $\Omega$	minimum elong	7519 Jul 29 11:04	11° $\Omega$ 33'18	1°39'09
morning rise	7518 Aug 27 04:34	27° $\Omega$ 09'05	min. Earth dist.	7519 Jul 31 21:15	10° $\Omega$ 02'42	0.55398 AU
direct	7518 Aug 31 00:50	26° $\Omega$ 37'26	morning rise	7519 Aug 07 00:42	6° $\Omega$ 59'24	
	7518 Sep 09 13:29	0° $\cap$	direct	7519 Aug 11 15:38	6° $\Omega$ 11'59	
morning max el	7518 Sep 13 00:36	2° $\cap$ 49'58 22°56'09	morning max el	7519 Aug 25 13:36	13° $\Omega$ 07'32	24°41'23
asc. node	7518 Sep 28 03:08	23° $\cap$ 53'42		7519 Sep 07 15:28	0° $\cap$	
	7518 Oct 01 08:16	0° $\Omega$	asc. node	7519 Sep 15 00:07	13° $\cap$ 09'07	
morning set	7518 Oct 05 18:00	9° $\Omega$ 01'36	morning set	7519 Sep 20 05:43	23° $\cap$ 51'35	
				7519 Sep 23 02:02	0° $\Omega$	
superior conj	7518 Oct 12 18:23	24° $\Omega$ 04'33 1°41'26	superior conj	7519 Sep 27 03:08	8° $\Omega$ 51'27	1°36'01
minimum elong	7518 Oct 12 17:55	24° $\Omega$ 02'03 1°41'28	minimum elong	7519 Sep 27 01:40	8° $\Omega$ 43'25	1°35'55
	7518 Oct 15 13:31	0° $\cap$	max. Earth dist.	7519 Sep 28 21:33	12° $\Omega$ 42'20	1.32615 AU
max. Earth dist.	7518 Oct 15 19:20	0° $\cap$ 30'26 1.33741 AU	evening rise	7519 Oct 04 09:29	24° $\Omega$ 18'33	
evening rise	7518 Oct 20 13:44	10° $\cap$ 11'54		7519 Oct 07 05:41	0° $\cap$	
	7518 Oct 31 10:23	0° $\kappa$	desc. node	7519 Oct 20 02:08	22° $\cap$ 38'57	
desc. node	7518 Nov 02 05:06	2° $\kappa$ 56'24		7519 Oct 25 00:34	0° $\kappa$	
	7518 Nov 22 05:24	0° $\Omega$	evening max el	7519 Nov 06 13:20	14° $\kappa$ 58'54	27°28'41
evening max el	7518 Nov 24 02:25	1° $\Omega$ 52'00 27°14'28	retrograde	7519 Nov 20 06:46	22° $\kappa$ 16'30	
retrograde	7518 Dec 07 12:49	9° $\Omega$ 11'43	evening set	7519 Nov 27 09:06	19° $\kappa$ 45'40	
evening set	7518 Dec 14 09:21	6° $\Omega$ 34'33	min. Earth dist.	7519 Dec 01 01:47	16° $\kappa$ 38'31	0.63159 AU
min. Earth dist.	7518 Dec 18 06:13	2° $\Omega$ 56'40 0.64886 AU	inferior conj	7519 Dec 03 19:20	13° $\kappa$ 57'04	-2°39'55
inferior conj	7518 Dec 20 12:34	0° $\Omega$ 27'48 -1°32'09	minimum elong	7519 Dec 04 00:17	13° $\kappa$ 44'49	2°37'57
minimum elong	7518 Dec 20 15:20	0° $\Omega$ 20'12 1°30'53	morning rise	7519 Dec 10 17:23	8° $\kappa$ 43'35	
	7518 Dec 20 22:43	30° $\kappa$ $\kappa$	asc. node	7519 Dec 11 23:29	8° $\kappa$ 23'07	
asc. node	7518 Dec 25 02:27	26° $\kappa$ 03'49	direct	7519 Dec 13 01:58	8° $\kappa$ 17'16	
morning rise	7518 Dec 26 22:41	24° $\kappa$ 58'03	morning max el	7519 Dec 19 17:03	11° $\kappa$ 42'18	17°48'17
direct	7518 Dec 29 13:15	24° $\kappa$ 22'22		7520 Jan 01 02:38	0° $\Omega$	
morning max el	7519 Jan 04 23:48	27° $\kappa$ 46'12 17°58'39	morning set	7520 Jan 04 22:23	6° $\Omega$ 39'09	
	7519 Jan 07 00:28	0° $\Omega$	desc. node	7520 Jan 16 01:23	25° $\Omega$ 42'16	
morning set	7519 Jan 22 14:54	24° $\Omega$ 09'56				
	7519 Jan 26 03:24	0° $\approx$	superior conj	7520 Jan 16 23:12	27° $\Omega$ 12'51	-0°06'36
desc. node	7519 Jan 29 04:24	4° $\approx$ 59'47	minimum elong	7520 Jan 16 22:31	27° $\Omega$ 10'02	0°06'25
superior conj	7519 Feb 05 15:01	17° $\approx$ 00'06 -0°51'34	behind sun begin	7520 Jan 16 13:51	26° $\Omega$ 34'06	
minimum elong	7519 Feb 05 08:58	16° $\approx$ 35'57 0°50'41	behind sun end	7520 Jan 17 07:11	27° $\Omega$ 45'54	
max. Earth dist.	7519 Feb 09 14:43	23° $\approx$ 18'50 1.45176 AU		7520 Jan 18 15:44	0° $\approx$	
	7519 Feb 13 21:10	0° $\kappa$	max. Earth dist.	7520 Jan 23 08:07	7° $\approx$ 35'19	1.44168 AU
evening rise	7519 Feb 21 18:53	12° $\kappa$ 14'36	evening rise	7520 Feb 01 05:48	21° $\approx$ 33'35	
	7519 Mar 05 10:28	0° $\cap$		7520 Feb 06 18:36	0° $\kappa$	
greatest brilliancy	7519 Mar 07 23:54	3° $\cap$ 48'10 -0.6m		7520 Feb 28 03:12	0° $\cap$	
evening max el	7519 Mar 19 18:31	19° $\cap$ 16'00 19°51'51	evening max el	7520 Mar 01 18:28	2° $\cap$ 53'47	20°57'09
asc. node	7519 Mar 23 01:32	22° $\cap$ 05'42	asc. node	7520 Mar 08 22:35	7° $\cap$ 44'01	
retrograde	7519 Mar 27 06:55	23° $\cap$ 36'28	retrograde	7520 Mar 10 05:22	7° $\cap$ 52'33	
evening set	7519 Mar 31 00:29	22° $\cap$ 15'07	evening set	7520 Mar 14 08:19	6° $\cap$ 16'16	
inferior conj	7519 Apr 05 09:29	16° $\cap$ 15'21 3°15'53	inferior conj	7520 Mar 19 15:53	0° $\cap$ 04'28	2°55'21
minimum elong	7519 Apr 05 08:06	16° $\cap$ 19'58 3°15'42	minimum elong	7520 Mar 19 13:50	0° $\cap$ 11'33	2°54'56
min. Earth dist.	7519 Apr 06 09:33	14° $\cap$ 54'39 0.67258 AU		7520 Mar 19 17:10	30° $\kappa$ $\kappa$	
morning rise	7519 Apr 10 15:28	9° $\cap$ 58'35	min. Earth dist.	7520 Mar 20 02:32	29° $\kappa$ 27'37	0.68007 AU
direct	7519 Apr 16 13:35	7° $\cap$ 19'57	morning rise	7520 Mar 24 19:07	23° $\kappa$ 50'03	
desc. node	7519 Apr 27 03:53	13° $\cap$ 09'41	direct	7520 Mar 30 03:49	21° $\kappa$ 27'43	
morning max el	7519 Apr 28 12:29	14° $\cap$ 29'36 25°11'47	morning max el	7520 Apr 09 21:29	27° $\kappa$ 52'12	23°43'34
	7519 May 11 04:11	0° $\Omega$		7520 Apr 11 21:49	0° $\cap$	
	7519 May 30 11:46	0° $\cap$	desc. node	7520 Apr 13 00:53	1° $\cap$ 16'03	
morning set	7519 Jun 03 14:45	7° $\cap$ 14'26		7520 May 03 20:30	0° $\Omega$	
max. Earth dist.	7519 Jun 07 06:18	13° $\cap$ 54'42 1.36543 AU	morning set	7520 May 15 05:30	18° $\Omega$ 27'18	
			max. Earth dist.	7520 May 19 02:07	25° $\Omega$ 08'40	1.38711 AU
superior conj	7519 Jun 13 12:27	25° $\cap$ 56'12 -0°53'08		7520 May 21 19:22	0° $\cap$	
minimum elong	7519 Jun 13 15:37	26° $\cap$ 11'53 0°52'40	superior conj	7520 May 26 12:19	8° $\cap$ 41'05	-1°23'46
	7519 Jun 15 13:25	0° $\Omega$	minimum elong	7520 May 26 17:16	9° $\cap$ 04'27	1°23'09
asc. node	7519 Jun 19 00:41	7° $\Omega$ 00'47	evening rise	7520 Jun 04 15:56	26° $\cap$ 21'45	
evening rise	7519 Jun 21 18:23	12° $\Omega$ 33'58	asc. node	7520 Jun 04 21:42	26° $\cap$ 49'49	
	7519 Jul 01 00:15	0° $\Omega$				

	7520 Jun 06 12:53	0°☿			7521 May 13 23:10	0°♊	
evening max el	7520 Jun 20 22:54	22°☿45'20	18°49'33	evening rise	7521 May 19 02:53	9°♊35'48	
retrograde	7520 Jun 29 07:16	26°☿52'48		asc. node	7521 May 22 18:44	16°♊23'42	
evening set	7520 Jul 01 07:40	26°☿39'17			7521 May 30 20:55	0°☿	
inferior conj	7520 Jul 09 09:29	22°☿20'01	0°10'59	evening max el	7521 Jun 04 05:50	5°☿20'46	18°17'48
minimum elong	7520 Jul 09 09:55	22°☿19'14	0°10'44	retrograde	7521 Jun 11 11:05	8°☿57'43	
transit middle	7520 Jul 09 09:55	22°☿19'14	0°10'44	evening set	7521 Jun 13 18:45	8°☿36'09	
transit begin	7520 Jul 09 07:10	22°☿24'14		inferior conj	7521 Jun 21 00:55	3°☿56'16	1°38'43
transit end	7520 Jul 09 12:41	22°☿14'14		minimum elong	7521 Jun 21 03:49	3°☿50'07	1°37'41
desc. node	7520 Jul 10 00:10	21°☿53'23		min. Earth dist.	7521 Jun 24 10:43	1°☿04'27	0.58955 AU
min. Earth dist.	7520 Jul 12 13:19	20°☿03'47	0.56907 AU		7521 Jun 25 20:15	30°♊	
morning rise	7520 Jul 17 08:45	17°☿16'32		desc. node	7521 Jun 26 21:14	29°♊16'18	
direct	7520 Jul 22 20:44	16°☿03'20		morning rise	7521 Jun 28 09:45	28°♊20'31	
morning max el	7520 Aug 06 04:10	23°☿30'31	26°15'05	direct	7521 Jul 04 15:26	26°♊35'34	
	7520 Aug 12 00:51	0°♊			7521 Jul 13 20:07	0°☿	
	7520 Aug 30 12:09	0°♊		morning max el	7521 Jul 19 00:29	4°☿22'48	27°22'13
asc. node	7520 Aug 31 21:06	2°♊45'59			7521 Aug 06 20:25	0°♊	
morning set	7520 Sep 03 16:30	8°♊36'51		asc. node	7521 Aug 18 18:06	22°♊37'17	
				morning set	7521 Aug 19 00:41	23°♊11'45	
superior conj	7520 Sep 10 14:22	23°♊43'14	1°25'03		7521 Aug 22 04:57	0°♊	
minimum elong	7520 Sep 10 12:17	23°♊31'42	1°24'48	max. Earth dist.	7521 Aug 25 16:08	7°♊37'32	1.31720 AU
max. Earth dist.	7520 Sep 11 05:37	25°♊07'33	1.31945 AU				
	7520 Sep 13 10:47	0°♊		superior conj	7521 Aug 26 02:10	8°♊33'09	1°09'04
evening rise	7520 Sep 17 12:40	8°♊45'00		minimum elong	7521 Aug 25 23:55	8°♊20'38	1°08'40
	7520 Sep 28 14:34	0°♊		evening rise	7521 Sep 01 20:45	23°♊23'11	
desc. node	7520 Oct 05 23:11	11°♊45'57			7521 Sep 05 00:58	0°♊	
evening max el	7520 Oct 18 20:10	27°♊28'52	27°10'46	desc. node	7521 Sep 22 20:15	0°♊03'04	
	7520 Oct 21 17:45	0°♊			7521 Sep 22 19:20	0°♊	
retrograde	7520 Nov 01 17:11	4°♊40'37		evening max el	7521 Sep 30 20:15	9°♊11'13	26°19'05
evening set	7520 Nov 08 18:21	2°♊27'04		retrograde	7521 Oct 14 18:30	16°♊16'49	
	7520 Nov 12 02:40	30°♊		evening set	7521 Oct 21 08:27	14°♊31'21	
min. Earth dist.	7520 Nov 12 10:56	29°♊42'48	0.61188 AU	min. Earth dist.	7521 Oct 25 09:31	11°♊56'47	0.59106 AU
inferior conj	7520 Nov 15 13:04	27°♊01'27	-3°47'27	inferior conj	7521 Oct 28 14:16	9°♊31'28	-4°47'00
minimum elong	7520 Nov 15 19:47	26°♊46'46	3°45'17	minimum elong	7521 Oct 28 21:00	9°♊18'40	4°45'32
morning rise	7520 Nov 22 23:27	22°♊07'19		morning rise	7521 Nov 05 11:48	4°♊59'33	
direct	7520 Nov 25 05:09	21°♊46'45		direct	7521 Nov 07 18:35	4°♊41'33	
asc. node	7520 Nov 27 20:31	22°♊16'33		asc. node	7521 Nov 14 17:34	7°♊39'39	
morning max el	7520 Dec 02 08:09	25°♊21'26	17°56'14	morning max el	7521 Nov 15 17:40	8°♊34'29	18°24'04
	7520 Dec 06 05:19	0°♊			7521 Nov 29 13:35	0°♊	
morning set	7520 Dec 18 00:37	20°♊01'20		morning set	7521 Dec 01 16:03	4°♊00'23	
	7520 Dec 23 12:03	0°♊					
superior conj	7520 Dec 28 09:11	8°♊39'35	0°32'59	superior conj	7521 Dec 10 18:05	21°♊12'00	1°03'33
minimum elong	7520 Dec 28 11:51	8°♊51'10	0°32'41	minimum elong	7521 Dec 10 21:37	21°♊28'18	1°03'12
desc. node	7521 Jan 01 22:22	16°♊27'39			7521 Dec 15 15:16	0°♊	
max. Earth dist.	7521 Jan 04 21:28	21°♊24'01	1.42577 AU	max. Earth dist.	7521 Dec 18 06:26	4°♊34'57	1.40584 AU
	7521 Jan 10 04:59	0°♊		desc. node	7521 Dec 19 19:23	7°♊12'43	
evening rise	7521 Jan 11 01:39	1°♊21'53		evening rise	7521 Dec 22 16:56	12°♊03'40	
	7521 Jan 30 06:54	0°♊			7522 Jan 03 02:38	0°♊	
evening max el	7521 Feb 12 13:21	16°♊33'23	22°12'21	evening max el	7522 Jan 25 22:05	0°♊	
retrograde	7521 Feb 22 02:23	22°♊13'01		retrograde	7522 Jan 26 04:33	0°♊16'15	23°32'11
asc. node	7521 Feb 23 19:39	21°♊57'50			7522 Feb 05 20:36	6°♊34'13	
evening set	7521 Feb 26 16:07	20°♊21'32		evening set	7522 Feb 10 22:22	4°♊27'47	
inferior conj	7521 Mar 04 00:11	14°♊00'37	2°25'16	asc. node	7522 Feb 10 16:44	4°♊39'26	
minimum elong	7521 Mar 03 21:53	14°♊08'35	2°24'38		7522 Feb 14 21:35	30°♊	
min. Earth dist.	7521 Mar 03 22:31	14°♊06'25	0.68333 AU	inferior conj	7522 Feb 16 08:32	28°♊01'13	1°46'35
morning rise	7521 Mar 09 03:30	7°♊50'08		minimum elong	7522 Feb 16 06:27	28°♊08'22	1°45'55
direct	7521 Mar 13 22:04	5°♊48'51		min. Earth dist.	7522 Feb 15 19:13	28°♊46'48	0.68250 AU
morning max el	7521 Mar 23 08:38	11°♊21'31	22°14'40	morning rise	7522 Feb 21 14:29	21°♊56'09	
desc. node	7521 Mar 30 21:53	20°♊11'53		direct	7522 Feb 25 19:12	20°♊17'33	
	7521 Apr 07 02:16	0°♊		morning max el	7522 Mar 06 01:42	25°♊02'11	20°53'06
morning set	7521 Apr 25 17:26	28°♊23'25			7522 Mar 10 11:38	0°♊	
	7521 Apr 26 17:11	0°♊		desc. node	7522 Mar 17 18:52	9°♊43'47	
max. Earth dist.	7521 Apr 30 23:40	7°♊04'45	1.40940 AU		7522 Mar 31 12:06	0°♊	
				morning set	7522 Apr 05 02:57	7°♊08'17	
superior conj	7521 May 08 18:40	20°♊34'59	-1°50'17	max. Earth dist.	7522 Apr 13 04:21	19°♊58'04	1.42935 AU
minimum elong	7521 May 09 00:16	20°♊59'56	1°49'50		7522 Apr 19 06:00	0°♊	

superior conj	7522 Apr 20 02:51	1°♄27'57	-2°07'43		7523 Apr 11 18:32	0°♄	
minimum elong	7522 Apr 20 06:16	1°♄42'22	2°07'38	evening rise	7523 Apr 13 23:48	3°♄45'04	
evening rise	7522 May 01 23:05	22°♄07'04		asc. node	7523 Apr 26 12:51	24°♄23'05	
	7522 May 06 09:38	0°♄			7523 Apr 30 17:13	0°♄	
asc. node	7522 May 09 15:47	5°♄37'14		evening max el	7523 May 02 06:50	1°♄42'01	18°12'45
evening max el	7522 May 18 17:37	18°♄22'41	18°05'43	retrograde	7523 May 08 16:11	5°♄05'05	
retrograde	7522 May 25 07:36	21°♄45'18		evening set	7523 May 11 14:06	4°♄20'17	
evening set	7522 May 27 22:35	21°♄12'58			7523 May 16 17:43	30°♄	
inferior conj	7522 Jun 03 12:09	16°♄12'46	2°37'35	inferior conj	7523 May 17 15:08	29°♄01'25	3°11'10
minimum elong	7522 Jun 03 15:07	16°♄05'28	2°36'47	minimum elong	7523 May 17 16:59	28°♄56'16	3°10'50
min. Earth dist.	7522 Jun 06 15:45	13°♄08'53	0.61195 AU	min. Earth dist.	7523 May 20 06:01	26°♄08'22	0.63331 AU
morning rise	7522 Jun 10 05:26	10°♄14'29		morning rise	7523 May 23 18:32	22°♄50'34	
desc. node	7522 Jun 13 18:17	8°♄28'52		direct	7523 May 30 13:16	20°♄13'11	
direct	7522 Jun 16 21:35	7°♄59'16		desc. node	7523 May 31 15:18	20°♄16'54	
morning max el	7522 Jul 01 03:38	15°♄58'14	27°53'17	morning max el	7523 Jun 13 11:46	28°♄15'28	27°46'20
	7522 Jul 12 15:15	0°♄			7523 Jun 15 03:56	0°♄	
	7522 Jul 30 10:29	0°♄			7523 Jul 06 10:32	0°♄	
morning set	7522 Aug 03 04:25	7°♄31'02		morning set	7523 Jul 18 01:27	21°♄28'21	
asc. node	7522 Aug 05 15:07	12°♄38'00			7523 Jul 22 05:08	0°♄	
max. Earth dist.	7522 Aug 09 01:18	20°♄01'05	1.31940 AU	max. Earth dist.	7523 Jul 23 05:01	2°♄06'02	1.32618 AU
				asc. node	7523 Jul 23 12:07	2°♄43'47	
superior conj	7522 Aug 10 12:47	23°♄15'40	0°48'29				
minimum elong	7522 Aug 10 10:50	23°♄04'59	0°48'03	superior conj	7523 Jul 25 20:22	7°♄45'21	0°23'47
	7522 Aug 13 14:11	0°♄		minimum elong	7523 Jul 25 19:15	7°♄39'20	0°23'28
evening rise	7522 Aug 17 07:37	8°♄06'34		evening rise	7523 Aug 01 19:22	22°♄49'18	
	7522 Aug 28 14:02	0°♄			7523 Aug 05 05:57	0°♄	
desc. node	7522 Sep 09 17:19	17°♄10'20			7523 Aug 24 14:34	0°♄	
evening max el	7522 Sep 12 12:17	20°♄03'29	24°58'24	evening max el	7523 Aug 24 23:50	0°♄22'46	23°21'28
retrograde	7522 Sep 26 09:02	27°♄03'04		desc. node	7523 Aug 27 14:23	2°♄41'15	
evening set	7522 Oct 01 22:50	25°♄52'49		retrograde	7523 Sep 07 11:43	7°♄08'11	
min. Earth dist.	7522 Oct 06 23:35	23°♄09'47	0.57138 AU	evening set	7523 Sep 11 14:04	6°♄31'25	
inferior conj	7522 Oct 09 19:52	21°♄17'28	-5°25'26	min. Earth dist.	7523 Sep 18 09:18	3°♄21'38	0.55586 AU
minimum elong	7522 Oct 09 23:04	21°♄12'11	5°25'09	inferior conj	7523 Sep 20 05:35	2°♄16'33	-5°24'30
morning rise	7522 Oct 18 01:33	17°♄08'32		minimum elong	7523 Sep 20 01:46	2°♄22'10	5°24'11
direct	7522 Oct 20 13:59	16°♄50'24			7523 Sep 24 08:29	30°♄	
morning max el	7522 Oct 29 18:00	21°♄11'17	19°13'24	morning rise	7523 Sep 28 15:43	28°♄24'39	
asc. node	7522 Nov 01 14:36	24°♄18'23		direct	7523 Oct 01 13:51	28°♄04'00	
	7522 Nov 05 15:52	0°♄			7523 Oct 08 05:55	0°♄	
morning set	7522 Nov 15 16:27	18°♄23'36		morning max el	7523 Oct 12 06:23	3°♄03'40	20°25'00
	7522 Nov 21 12:22	0°♄		asc. node	7523 Oct 19 11:37	11°♄57'27	
					7523 Oct 29 10:54	0°♄	
superior conj	7522 Nov 23 20:38	4°♄35'01	1°24'39	morning set	7523 Oct 30 22:46	3°♄02'38	
minimum elong	7522 Nov 23 23:32	4°♄49'04	1°24'28				
max. Earth dist.	7522 Nov 30 12:11	17°♄03'45	1.38428 AU	superior conj	7523 Nov 07 12:04	18°♄35'10	1°37'03
evening rise	7522 Dec 04 06:22	23°♄44'13		minimum elong	7523 Nov 07 13:42	18°♄43'24	1°37'02
desc. node	7522 Dec 06 16:23	27°♄53'19		max. Earth dist.	7523 Nov 12 19:03	29°♄02'47	1.36366 AU
	7522 Dec 07 22:29	0°♄			7523 Nov 13 06:59	0°♄	
	7522 Dec 27 21:25	0°♄		evening rise	7523 Nov 16 15:58	6°♄19'06	
evening max el	7523 Jan 08 17:44	14°♄01'25	24°50'28	desc. node	7523 Nov 23 13:25	18°♄25'37	
retrograde	7523 Jan 20 10:54	20°♄50'39			7523 Nov 30 18:16	0°♄	
evening set	7523 Jan 26 01:29	18°♄30'34		evening max el	7523 Dec 22 06:36	27°♄47'08	26°00'04
asc. node	7523 Jan 28 13:49	15°♄56'28			7523 Dec 24 16:38	0°♄	
min. Earth dist.	7523 Jan 30 14:25	13°♄23'57	0.67779 AU	retrograde	7524 Jan 03 20:29	4°♄56'51	
inferior conj	7523 Jan 31 15:03	12°♄02'37	0°59'56	evening set	7524 Jan 09 23:48	2°♄26'08	
minimum elong	7523 Jan 31 13:41	12°♄07'10	0°59'28		7524 Jan 12 11:17	30°♄	
morning rise	7523 Feb 06 02:06	6°♄04'30		min. Earth dist.	7524 Jan 14 05:55	27°♄54'02	0.66935 AU
direct	7523 Feb 09 17:55	4°♄47'36		asc. node	7524 Jan 15 10:53	26°♄23'43	
morning max el	7523 Feb 17 02:39	8°♄54'47	19°43'56	inferior conj	7524 Jan 15 17:54	26°♄01'45	0°05'53
greatest brilliancy	7523 Mar 01 21:51	25°♄36'44	-0.6m	minimum elong	7524 Jan 15 17:45	26°♄02'15	0°05'55
desc. node	7523 Mar 04 15:50	29°♄41'21		transit middle	7524 Jan 15 17:45	26°♄02'15	0°05'55
	7523 Mar 04 20:49	0°♄		transit begin	7524 Jan 15 15:06	26°♄10'31	
morning set	7523 Mar 14 23:59	15°♄25'03		transit end	7524 Jan 15 20:23	25°♄53'59	
	7523 Mar 24 08:44	0°♄		morning rise	7524 Jan 21 12:18	20°♄12'29	
max. Earth dist.	7523 Mar 26 15:56	3°♄38'19	1.44443 AU	direct	7524 Jan 24 16:45	19°♄14'33	
				morning max el	7524 Jan 31 11:06	22°♄56'22	18°49'55
superior conj	7523 Mar 31 09:57	11°♄14'33	-2°10'00		7524 Feb 06 07:01	0°♄	
minimum elong	7523 Mar 31 07:26	11°♄04'23	2°09'59	desc. node	7524 Feb 19 12:47	19°♄57'42	

morning set	7524 Feb 22 09:06	24° $\approx$ 24'34		morning set	7525 Feb 01 22:19	4° $\approx$ 50'27	
	7524 Feb 25 22:54	0° $\text{H}$		desc. node	7525 Feb 05 09:46	10° $\approx$ 27'38	
max. Earth dist.	7524 Mar 08 08:26	17° $\text{H}$ 49'43	1.45303 AU				
superior conj	7524 Mar 09 20:17	20° $\text{H}$ 10'25	-1°52'32	superior conj	7525 Feb 17 01:06	28° $\approx$ 58'48	-1°16'54
minimum elong	7524 Mar 09 11:38	19° $\text{H}$ 36'27	1°51'52	minimum elong	7525 Feb 16 16:23	28° $\approx$ 24'32	1°15'49
	7524 Mar 16 01:40	0° $\text{Y}$			7525 Feb 17 16:40	0° $\text{H}$	
evening rise	7524 Mar 25 01:25	14° $\text{Y}$ 24'11		max. Earth dist.	7525 Feb 19 03:43	2° $\text{H}$ 17'29	1.45435 AU
greatest brilliancy	7521 Mar 16 02:32	6° $\text{H}$ 11'04	0.1m	evening rise	7525 Mar 05 04:35	24° $\text{H}$ 11'21	
	7524 Apr 03 18:00	0° $\text{B}$			7525 Mar 08 22:09	0° $\text{Y}$	
asc. node	7524 Apr 12 09:55	12° $\text{B}$ 32'18		greatest brilliancy	7525 Mar 17 02:01	12° $\text{Y}$ 35'11	-0.7m
evening max el	7524 Apr 14 18:42	15° $\text{B}$ 11'43	18°38'05	evening max el	7525 Mar 29 03:01	28° $\text{Y}$ 46'56	19°20'32
retrograde	7524 Apr 21 08:26	18° $\text{B}$ 48'10		asc. node	7525 Mar 30 06:58	29° $\text{Y}$ 53'57	
evening set	7524 Apr 24 13:28	17° $\text{B}$ 49'45			7525 Mar 30 09:41	0° $\text{B}$	
inferior conj	7524 Apr 30 05:47	12° $\text{B}$ 13'53	3°24'46	retrograde	7525 Apr 05 05:03	2° $\text{B}$ 48'13	
minimum elong	7524 Apr 30 06:14	12° $\text{B}$ 12'32	3°24'41	evening set	7525 Apr 08 17:48	1° $\text{B}$ 35'23	
min. Earth dist.	7524 May 02 05:31	9° $\text{B}$ 49'12	0.65177 AU		7525 Apr 10 14:45	30° $\text{R}$ $\text{Y}$	
morning rise	7524 May 05 22:18	5° $\text{B}$ 57'42		inferior conj	7525 Apr 14 04:41	25° $\text{Y}$ 44'00	3°22'48
direct	7524 May 12 12:48	3° $\text{B}$ 10'18		minimum elong	7525 Apr 14 03:53	25° $\text{Y}$ 46'38	3°22'42
desc. node	7524 May 17 12:18	4° $\text{B}$ 29'15		min. Earth dist.	7525 Apr 15 13:09	23° $\text{Y}$ 58'25	0.66624 AU
morning max el	7524 May 25 21:56	11° $\text{B}$ 03'48	27°05'24	morning rise	7525 Apr 19 13:36	19° $\text{Y}$ 26'52	
	7524 Jun 09 21:56	0° $\text{II}$		direct	7525 Apr 25 18:49	16° $\text{Y}$ 41'55	
	7524 Jun 27 22:46	0° $\text{E}$		desc. node	7525 May 04 09:17	20° $\text{Y}$ 35'05	
morning set	7524 Jun 30 12:49	4° $\text{E}$ 54'33		morning max el	7525 May 08 07:51	24° $\text{Y}$ 11'33	25°58'24
max. Earth dist.	7524 Jul 04 23:29	13° $\text{E}$ 42'42	1.33780 AU		7525 May 13 12:46	0° $\text{B}$	
					7525 Jun 03 07:48	0° $\text{II}$	
superior conj	7524 Jul 08 22:44	21° $\text{E}$ 55'19	-0°04'25	morning set	7525 Jun 13 10:50	17° $\text{II}$ 39'24	
minimum elong	7524 Jul 08 22:59	21° $\text{E}$ 56'35	0°04'28	max. Earth dist.	7525 Jun 17 06:53	24° $\text{II}$ 53'22	1.35417 AU
behind sun begin	7524 Jul 08 17:33	21° $\text{E}$ 28'06			7525 Jun 19 21:44	0° $\text{E}$	
behind sun end	7524 Jul 09 04:24	22° $\text{E}$ 25'07		superior conj	7525 Jun 22 17:26	5° $\text{E}$ 39'00	-0°35'01
asc. node	7524 Jul 09 09:07	22° $\text{E}$ 49'57		minimum elong	7525 Jun 22 19:28	5° $\text{E}$ 49'17	0°34'43
	7524 Jul 12 18:09	0° $\text{Q}$		asc. node	7525 Jun 26 06:07	12° $\text{E}$ 52'41	
evening rise	7524 Jul 16 06:01	7° $\text{Q}$ 24'47		evening rise	7525 Jun 30 13:35	21° $\text{E}$ 47'20	
	7524 Jul 28 06:24	0° $\text{P}$			7525 Jul 04 15:32	0° $\text{Q}$	
evening max el	7524 Aug 05 15:18	10° $\text{P}$ 42'14	21°44'43	evening max el	7525 Jul 18 17:59	21° $\text{Q}$ 33'04	20°21'07
desc. node	7524 Aug 13 11:27	16° $\text{P}$ 02'33		retrograde	7525 Jul 29 15:33	26° $\text{Q}$ 55'22	
retrograde	7524 Aug 18 03:10	16° $\text{P}$ 54'05		desc. node	7525 Jul 31 08:29	26° $\text{Q}$ 48'01	
evening set	7524 Aug 20 19:48	16° $\text{P}$ 37'44		evening set	7525 Jul 31 14:50	26° $\text{Q}$ 45'36	
inferior conj	7524 Aug 30 00:58	12° $\text{P}$ 37'49	-4°29'55	inferior conj	7525 Aug 09 18:44	22° $\text{Q}$ 48'04	-2°48'43
minimum elong	7524 Aug 29 15:51	12° $\text{P}$ 50'35	4°27'47	minimum elong	7525 Aug 09 11:05	22° $\text{Q}$ 59'13	2°46'06
min. Earth dist.	7524 Aug 29 18:20	12° $\text{P}$ 47'08	0.54775 AU	min. Earth dist.	7525 Aug 11 04:41	21° $\text{Q}$ 58'30	0.54905 AU
morning rise	7524 Sep 07 13:07	8° $\text{P}$ 47'48		morning rise	7525 Aug 18 06:26	18° $\text{Q}$ 40'03	
direct	7524 Sep 11 00:24	8° $\text{P}$ 21'26		direct	7525 Aug 22 10:29	18° $\text{Q}$ 02'35	
morning max el	7524 Sep 23 06:08	14° $\text{P}$ 07'39	21°56'47	morning max el	7525 Sep 04 20:53	24° $\text{Q}$ 34'20	23°41'02
asc. node	7524 Oct 05 08:36	0° $\text{Q}$ 22'13			7525 Sep 09 20:45	0° $\text{P}$	
	7524 Oct 05 03:26	0° $\text{Q}$		asc. node	7525 Sep 22 05:34	19° $\text{P}$ 21'43	
morning set	7524 Oct 14 08:39	17° $\text{Q}$ 49'57			7525 Sep 27 13:43	0° $\text{Q}$	
	7524 Oct 20 02:22	0° $\text{M}$		morning set	7525 Sep 28 20:11	2° $\text{Q}$ 40'22	
superior conj	7524 Oct 21 12:29	3° $\text{M}$ 00'06	1°41'47	superior conj	7525 Oct 05 18:53	17° $\text{Q}$ 40'56	1°39'50
minimum elong	7524 Oct 21 12:44	3° $\text{M}$ 01'25	1°41'50	minimum elong	7525 Oct 05 17:57	17° $\text{Q}$ 35'53	1°39'50
max. Earth dist.	7524 Oct 25 08:19	10° $\text{M}$ 55'23	1.34591 AU	max. Earth dist.	7525 Oct 08 06:15	22° $\text{Q}$ 59'19	1.33218 AU
evening rise	7524 Oct 29 17:50	19° $\text{M}$ 37'37			7525 Oct 11 14:46	0° $\text{M}$	
	7524 Nov 04 08:16	0° $\text{X}$		evening rise	7525 Oct 13 08:05	3° $\text{M}$ 29'27	
desc. node	7524 Nov 09 10:27	8° $\text{X}$ 44'01		desc. node	7525 Oct 27 07:30	28° $\text{M}$ 42'02	
	7524 Nov 23 19:25	0° $\text{Z}$			7525 Oct 28 03:04	0° $\text{X}$	
evening max el	7524 Dec 03 19:46	11° $\text{Z}$ 27'12	26°53'45	evening max el	7525 Nov 16 08:16	24° $\text{X}$ 50'31	27°24'11
retrograde	7524 Dec 17 00:30	18° $\text{Z}$ 45'49			7525 Nov 22 23:22	0° $\text{Z}$	
evening set	7524 Dec 23 15:21	16° $\text{Z}$ 09'19		retrograde	7525 Nov 29 22:06	2° $\text{Z}$ 09'12	
min. Earth dist.	7524 Dec 27 15:27	12° $\text{Z}$ 11'42	0.65731 AU		7525 Dec 06 07:02	30° $\text{R}$ $\text{X}$	
inferior conj	7524 Dec 29 14:58	9° $\text{Z}$ 54'20	-0°54'46	evening set	7525 Dec 06 21:42	29° $\text{X}$ 33'56	
minimum elong	7524 Dec 29 16:32	9° $\text{Z}$ 49'46	0°53'59	min. Earth dist.	7525 Dec 10 16:41	26° $\text{X}$ 09'27	0.64189 AU
asc. node	7525 Jan 01 07:55	6° $\text{Z}$ 56'11		inferior conj	7525 Dec 13 03:48	23° $\text{X}$ 34'18	-2°00'37
morning rise	7525 Jan 04 18:48	4° $\text{Z}$ 16'22		minimum elong	7525 Dec 13 07:29	23° $\text{X}$ 24'34	1°59'02
direct	7525 Jan 07 13:48	3° $\text{Z}$ 33'40		asc. node	7525 Dec 19 04:57	18° $\text{X}$ 26'40	
morning max el	7525 Jan 14 01:10	7° $\text{Z}$ 01'23	18°12'25	morning rise	7525 Dec 19 18:50	18° $\text{X}$ 10'44	
	7525 Jan 29 22:37	0° $\approx$		direct	7525 Dec 22 06:35	17° $\text{X}$ 39'25	

morning max el	7525 Dec 28 18:05	21°  02'40	17°52'00	morning max el	7526 Dec 12 10:54	4°  53'09	17°49'22
	7526 Jan 04 14:21	0°  3		morning set	7526 Dec 28 08:26	29°  35'17	
morning set	7526 Jan 14 16:07	16°  340'28			7526 Dec 28 13:59	0°  3	
	7526 Jan 22 14:38	0°  ≈					
desc. node	7526 Jan 23 06:45	1°  ≈06'33		superior conj	7527 Jan 08 14:57	19°  316'05	0°11'10
				minimum elong	7527 Jan 08 16:01	19°  320'35	0°11'06
superior conj	7526 Jan 27 19:36	8°  ≈30'49	-0°32'12	behind sun begin	7527 Jan 08 09:33	18°  353'16	
minimum elong	7526 Jan 27 15:55	8°  ≈15'56	0°31'35	behind sun end	7527 Jan 08 22:28	19°  347'52	
max. Earth dist.	7526 Feb 01 23:05	16°  ≈44'36	1.44831 AU	desc. node	7527 Jan 10 03:45	21°  350'59	
	7526 Feb 10 10:44	0°  ✕			7527 Jan 15 02:22	0°  ≈	
evening rise	7526 Feb 12 17:26	3°  ✕30'30		max. Earth dist.	7527 Jan 15 15:36	0°  ≈53'39	1.43558 AU
	7526 Mar 02 11:07	0°  Y		evening rise	7527 Jan 23 06:35	12°  ≈58'36	
evening max el	7526 Mar 12 06:13	12°  Y23'51	20°18'14		7527 Feb 03 12:37	0°  ✕	
asc. node	7526 Mar 17 04:02	16°  Y14'01		evening max el	7527 Feb 23 03:55	26°  ✕02'09	21°28'06
retrograde	7526 Mar 20 03:22	16°  Y59'27			7527 Feb 27 22:57	0°  Y	
evening set	7526 Mar 24 00:53	15°  Y31'39		retrograde	7527 Mar 04 01:28	1°  Y18'09	
inferior conj	7526 Mar 29 09:00	9°  Y26'36	3°08'25	asc. node	7527 Mar 04 01:06	1°  Y18'09	
minimum elong	7526 Mar 29 07:18	9°  Y32'25	3°08'08		7527 Mar 07 19:46	30°  ✕✕	
min. Earth dist.	7526 Mar 30 03:12	8°  Y24'40	0.67632 AU	evening set	7527 Mar 08 08:56	29°  ✕35'10	
morning rise	7526 Apr 03 13:29	3°  Y10'54		inferior conj	7527 Mar 13 16:28	23°  ✕18'54	2°43'41
direct	7526 Apr 09 06:09	0°  Y38'27		minimum elong	7527 Mar 13 14:16	23°  ✕26'34	2°43'09
morning max el	7526 Apr 20 16:50	7°  Y29'26	24°34'59	min. Earth dist.	7527 Mar 13 21:41	23°  ✕00'49	0.68201 AU
desc. node	7526 Apr 21 06:17	8°  Y03'55		morning rise	7527 Mar 18 19:27	17°  ✕06'09	
	7526 May 08 06:19	0°  8		direct	7527 Mar 23 22:05	14°  ✕52'40	
morning set	7526 May 26 14:32	29°  829'05		morning max el	7527 Apr 03 02:30	20°  ✕55'01	23°05'19
	7526 May 26 21:34	0°  II		desc. node	7527 Apr 08 03:18	26°  ✕33'09	
max. Earth dist.	7526 May 30 05:31	5°  II57'48	1.37444 AU		7527 Apr 10 21:22	0°  Y	
					7527 May 01 12:19	0°  8	
superior conj	7526 Jun 06 01:14	18°  II47'23	-1°06'23	morning set	7527 May 07 18:21	10°  809'50	
minimum elong	7526 Jun 06 05:14	19°  II06'43	1°05'48	max. Earth dist.	7527 May 12 01:37	17°  827'51	1.39671 AU
	7526 Jun 11 17:35	0°  ☿			7527 May 19 02:42	0°  II	
asc. node	7526 Jun 13 03:08	2°  ☿47'40					
evening rise	7526 Jun 14 15:35	5°  ☿49'34		superior conj	7527 May 19 18:11	1°  II11'04	-1°35'47
	7526 Jun 28 15:02	0°  Ω		minimum elong	7527 May 19 23:38	1°  II36'13	1°35'12
evening max el	7526 Jul 01 09:37	3°  Ω07'06	19°16'58	evening rise	7527 May 29 09:05	19°  II23'49	
retrograde	7526 Jul 10 14:26	7°  Ω39'19		asc. node	7527 May 31 00:10	22°  II30'36	
evening set	7526 Jul 12 12:00	7°  Ω28'32			7527 Jun 04 00:32	0°  ☿	
desc. node	7526 Jul 18 05:32	5°  Ω06'21		evening max el	7527 Jun 14 11:57	15°  ☿22'07	18°33'33
inferior conj	7526 Jul 21 01:02	3°  Ω19'11	-0°51'22	retrograde	7527 Jun 22 07:32	19°  ☿15'06	
minimum elong	7526 Jul 20 22:46	3°  Ω22'56	0°50'34	evening set	7527 Jun 24 10:45	18°  ☿58'39	
min. Earth dist.	7526 Jul 23 17:57	1°  Ω32'15	0.55955 AU	inferior conj	7527 Jul 02 03:59	14°  ☿30'33	0°51'46
	7526 Jul 26 07:33	30°  ☿☿		minimum elong	7527 Jul 02 05:49	14°  ☿27'00	0°51'00
morning rise	7526 Jul 29 06:43	28°  ☿37'25		desc. node	7527 Jul 05 02:37	12°  ☿14'03	
direct	7526 Aug 03 06:40	27°  ☿40'19		min. Earth dist.	7527 Jul 05 12:01	11°  ☿56'35	0.57724 AU
	7526 Aug 11 03:21	0°  Ω		morning rise	7527 Jul 09 21:25	9°  ☿12'01	
morning max el	7526 Aug 17 09:42	4°  Ω49'52	25°23'41	direct	7527 Jul 15 17:20	7°  ☿45'56	
	7526 Sep 04 11:29	0°  ♍		morning max el	7527 Jul 30 02:38	15°  ☿23'11	26°47'50
asc. node	7526 Sep 09 02:34	8°  ♍47'10			7527 Aug 10 22:25	0°  Ω	
morning set	7526 Sep 13 07:45	17°  ♍29'16		asc. node	7527 Aug 26 23:34	28°  Ω30'46	
	7526 Sep 19 01:35	0°  ♎			7527 Aug 27 16:45	0°  ♍	
				morning set	7527 Aug 28 17:40	2°  ♍10'53	
superior conj	7526 Sep 20 04:58	2°  ♎30'45	1°32'00				
minimum elong	7526 Sep 20 03:11	2°  ♎20'57	1°31'51	superior conj	7527 Sep 04 16:39	17°  ♍22'19	1°18'52
max. Earth dist.	7526 Sep 21 11:37	5°  ♎19'02	1.32280 AU	minimum elong	7527 Sep 04 14:26	17°  ♍10'03	1°18'33
evening rise	7526 Sep 27 07:22	17°  ♎45'42		max. Earth dist.	7527 Sep 04 21:14	17°  ♍47'45	1.31788 AU
	7526 Oct 03 12:05	0°  ♎			7527 Sep 10 11:00	0°  ♎	
desc. node	7526 Oct 14 04:32	18°  ♎11'16		evening rise	7527 Sep 11 12:52	2°  ♎17'39	
	7526 Oct 22 16:57	0°  ♍			7527 Sep 26 09:59	0°  ♎	
evening max el	7526 Oct 29 17:56	7°  ♍44'00	27°25'08	desc. node	7527 Oct 01 01:37	6°  ♎59'24	
retrograde	7526 Nov 12 12:47	14°  ♍58'31		evening max el	7527 Oct 11 21:57	19°  ♎54'04	26°52'45
evening set	7526 Nov 19 15:51	12°  ♍33'38		retrograde	7527 Oct 25 19:37	27°  ♎03'39	
min. Earth dist.	7526 Nov 23 07:49	9°  ♍37'39	0.62351 AU	evening set	7527 Nov 01 17:38	25°  ♎00'22	
inferior conj	7526 Nov 26 05:30	6°  ♍54'39	-3°08'54	min. Earth dist.	7527 Nov 05 12:11	22°  ♎22'33	0.60307 AU
minimum elong	7526 Nov 26 11:20	6°  ♍41'00	3°06'45	inferior conj	7527 Nov 08 16:40	19°  ♎45'35	-4°14'18
morning rise	7526 Dec 03 08:50	1°  ♍49'00		minimum elong	7527 Nov 08 23:43	19°  ♎31'04	4°12'18
direct	7526 Dec 05 15:55	1°  ♍25'26		morning rise	7527 Nov 16 08:06	15°  ♎01'00	
asc. node	7526 Dec 06 01:59	1°  ♍26'14		direct	7527 Nov 18 13:42	14°  ♎41'57	

asc. node	7527 Nov 22 23:02	15°♍59'20			7528 Oct 23 06:32	30°♎♊	
morning max el	7527 Nov 26 00:11	18°♍22'58	18°05'34	morning rise	7528 Oct 28 11:17	27°♊35'57	
	7527 Dec 04 09:21	0°♊		direct	7528 Oct 30 19:41	27°♊18'21	
morning set	7527 Dec 11 16:52	13°♊14'44			7528 Nov 06 16:39	0°♍	
	7527 Dec 20 19:03	0°♊		morning max el	7528 Nov 08 06:16	1°♍22'14	18°42'16
				asc. node	7528 Nov 08 20:04	1°♍56'25	
superior conj	7527 Dec 21 11:20	1°♊12'52	0°47'05	morning set	7528 Nov 24 12:32	27°♍25'05	
minimum elong	7527 Dec 21 14:37	1°♊27'30	0°46'44		7528 Nov 25 20:18	0°♊	
desc. node	7527 Dec 28 00:45	12°♊36'40					
max. Earth dist.	7527 Dec 29 02:53	14°♊26'35	1.41766 AU	superior conj	7528 Dec 03 04:21	14°♊08'31	1°13'37
evening rise	7528 Jan 03 09:51	23°♊07'29		minimum elong	7528 Dec 03 07:45	14°♊24'30	1°13'19
	7528 Jan 07 18:08	0°♋		max. Earth dist.	7528 Dec 10 09:31	27°♊16'47	1.39676 AU
	7528 Jan 28 13:59	0°♋			7528 Dec 11 22:59	0°♊	
evening max el	7528 Feb 05 20:51	9°♋42'17	22°46'00	desc. node	7528 Dec 13 21:45	3°♊20'17	
retrograde	7528 Feb 15 21:37	15°♋39'29		evening rise	7528 Dec 14 10:35	4°♊14'34	
asc. node	7528 Feb 18 22:11	14°♋53'09			7528 Dec 30 22:24	0°♋	
evening set	7528 Feb 20 16:17	13°♋41'29		evening max el	7529 Jan 18 10:56	23°♋26'08	24°06'06
inferior conj	7528 Feb 26 01:03	7°♋17'24	2°09'52	retrograde	7529 Jan 29 14:22	29°♋58'55	
minimum elong	7528 Feb 25 22:47	7°♋25'14	2°09'11	evening set	7529 Feb 03 21:24	27°♋46'40	
min. Earth dist.	7528 Feb 25 18:19	7°♋40'43	0.68346 AU	asc. node	7529 Feb 04 19:17	26°♋56'18	
morning rise	7528 Mar 02 05:11	1°♋08'55		min. Earth dist.	7529 Feb 08 14:47	22°♋19'59	0.68096 AU
	7528 Mar 03 22:04	30°♎♊		inferior conj	7529 Feb 09 08:52	21°♋18'49	1°27'44
direct	7528 Mar 06 17:39	29°♋17'26		minimum elong	7529 Feb 09 07:01	21°♋25'04	1°27'07
	7528 Mar 09 17:55	0°♋		morning rise	7529 Feb 14 16:40	15°♋16'12	
morning max el	7528 Mar 15 15:55	4°♋29'15	21°38'38	direct	7529 Feb 18 15:43	13°♋47'00	
desc. node	7528 Mar 25 00:17	15°♋45'42		morning max el	7529 Feb 26 12:07	18°♋14'34	20°21'47
	7528 Apr 04 00:43	0°♌			7529 Mar 08 00:29	0°♋	
morning set	7528 Apr 16 18:26	19°♌33'37		desc. node	7529 Mar 11 21:15	5°♋29'26	
max. Earth dist.	7528 Apr 23 01:31	29°♌46'38	1.41828 AU	morning set	7529 Mar 26 19:51	27°♋57'53	
	7528 Apr 23 04:45	0°♌			7529 Mar 28 03:20	0°♌	
				max. Earth dist.	7529 Apr 05 08:44	12°♌59'28	1.43646 AU
superior conj	7528 Apr 30 15:38	12°♌39'55	-1°59'08				
minimum elong	7528 Apr 30 20:44	13°♌02'13	1°58'51	superior conj	7529 Apr 11 13:13	23°♌04'32	-2°10'53
	7528 May 10 07:34	0°♍		minimum elong	7529 Apr 11 14:30	23°♌09'51	2°10'56
evening rise	7528 May 11 14:21	2°♍21'00			7529 Apr 15 16:34	0°♌	
asc. node	7528 May 16 21:14	11°♍56'43		evening rise	7529 Apr 24 02:46	14°♌30'13	
evening max el	7528 May 27 21:24	28°♍10'00	18°10'20		7529 May 03 03:36	0°♍	
	7528 May 30 01:42	0°♎		asc. node	7529 May 03 18:18	0°♍59'25	
retrograde	7528 Jun 03 18:56	1°♎39'06		evening max el	7529 May 11 10:13	11°♍20'35	18°06'30
evening set	7528 Jun 06 05:38	1°♎13'23		retrograde	7529 May 17 20:56	14°♍41'23	
	7528 Jun 08 16:52	30°♎♍		evening set	7529 May 20 14:57	14°♍03'53	
inferior conj	7528 Jun 13 04:17	26°♍25'01	2°07'05	inferior conj	7529 May 26 22:42	8°♍55'49	2°54'34
minimum elong	7528 Jun 13 07:26	26°♍17'53	2°06'04	minimum elong	7529 May 27 01:17	8°♍49'08	2°53'59
min. Earth dist.	7528 Jun 16 12:43	23°♍24'41	0.59895 AU	min. Earth dist.	7529 May 29 21:33	5°♍53'51	0.62132 AU
morning rise	7528 Jun 20 06:24	20°♍38'05		morning rise	7529 Jun 02 09:47	2°♍51'22	
desc. node	7528 Jun 20 23:40	20°♍13'18		desc. node	7529 Jun 07 20:42	0°♍30'23	
direct	7528 Jun 26 17:30	18°♍39'20		direct	7529 Jun 09 04:11	0°♍25'03	
morning max el	7528 Jul 11 02:02	26°♍33'39	27°40'11	morning max el	7529 Jun 23 07:19	8°♍26'37	27°54'47
	7528 Jul 14 07:49	0°♎			7529 Jul 09 21:03	0°♎	
	7528 Aug 03 11:40	0°♏			7529 Jul 26 15:26	0°♏	
morning set	7528 Aug 12 00:12	16°♏40'01		morning set	7529 Jul 27 01:19	0°♏50'12	
asc. node	7528 Aug 12 20:34	18°♏26'48		asc. node	7529 Jul 30 17:34	8°♏29'55	
	7528 Aug 18 04:39	0°♐		max. Earth dist.	7529 Aug 01 14:33	12°♏31'09	1.32168 AU
max. Earth dist.	7528 Aug 18 07:28	0°♐15'34	1.31747 AU				
				superior conj	7529 Aug 03 13:43	16°♏47'30	0°38'30
superior conj	7528 Aug 19 04:11	2°♐10'01	1°00'53	minimum elong	7529 Aug 03 12:03	16°♏38'28	0°38'05
minimum elong	7528 Aug 19 02:00	1°♐57'56	1°00'28		7529 Aug 09 14:47	0°♐	
evening rise	7528 Aug 25 22:22	16°♐58'41		evening rise	7529 Aug 10 09:48	1°♐42'08	
	7528 Sep 01 07:52	0°♑			7529 Aug 25 17:31	0°♑	
desc. node	7528 Sep 16 22:41	24°♑49'52		desc. node	7529 Sep 03 19:45	11°♑19'37	
	7528 Sep 21 12:15	0°♒		evening max el	7529 Sep 04 07:57	11°♑49'25	24°18'19
evening max el	7528 Sep 22 18:26	1°♒14'12	25°47'50	retrograde	7529 Sep 18 02:28	18°♑44'08	
retrograde	7528 Oct 06 17:02	8°♒18'20		evening set	7529 Sep 23 01:52	17°♑49'26	
evening set	7528 Oct 12 22:09	6°♒47'23		min. Earth dist.	7529 Sep 28 18:51	14°♑56'51	0.56405 AU
min. Earth dist.	7528 Oct 17 06:58	4°♒11'23	0.58236 AU	inferior conj	7529 Oct 01 06:39	13°♑23'33	-5°31'00
inferior conj	7528 Oct 20 09:48	1°♒57'51	-5°06'56	minimum elong	7529 Oct 01 07:08	13°♑22'49	5°30'58
minimum elong	7528 Oct 20 15:33	1°♒47'32	5°05'58	morning rise	7529 Oct 09 14:34	9°♑22'39	

direct	7529 Oct 12 06:41	9°♄03'41		minimum elong	7530 Sep 11 02:17	24°♄12'59	5°07'06
morning max el	7529 Oct 22 01:40	13°♄40'19	19°41'08	morning rise	7530 Sep 19 20:12	20°♄14'51	
asc. node	7529 Oct 26 17:03	19°♄02'13		direct	7530 Sep 22 23:52	19°♄52'04	
	7529 Nov 02 12:18	0°♄		morning max el	7530 Oct 04 08:17	25°♄10'32	21°02'00
morning set	7529 Nov 08 15:48	11°♄56'02			7530 Oct 08 17:15	0°♄	
				asc. node	7530 Oct 13 14:02	7°♄01'49	
superior conj	7529 Nov 16 12:53	27°♄48'39	1°30'54	morning set	7530 Oct 23 23:52	26°♄39'14	
minimum elong	7529 Nov 16 15:17	28°♄00'31	1°30'47		7530 Oct 25 14:27	0°♄	
	7529 Nov 17 15:35	0°♄					
max. Earth dist.	7529 Nov 22 15:16	9°♄31'20	1.37531 AU	superior conj	7530 Oct 31 08:30	12°♄00'10	1°39'56
evening rise	7529 Nov 26 09:03	16°♄19'43		minimum elong	7530 Oct 31 09:32	12°♄05'30	1°39'57
desc. node	7529 Nov 30 18:46	23°♄58'11		max. Earth dist.	7530 Nov 05 00:41	21°♄26'14	1.35564 AU
	7529 Dec 04 10:12	0°♄		evening rise	7530 Nov 09 02:00	29°♄13'57	
	7529 Dec 25 10:52	0°♄			7530 Nov 09 11:51	0°♄	
evening max el	7530 Jan 01 00:06	7°♄13'24	25°21'37	desc. node	7530 Nov 17 15:47	14°♄25'19	
retrograde	7530 Jan 13 02:40	14°♄12'06			7530 Nov 27 15:10	0°♄	
evening set	7530 Jan 18 22:40	11°♄47'20		evening max el	7530 Dec 14 13:09	20°♄58'03	26°25'18
asc. node	7530 Jan 22 16:20	7°♄47'09		retrograde	7530 Dec 27 09:45	28°♄12'12	
min. Earth dist.	7530 Jan 23 08:44	6°♄55'14	0.67469 AU	evening set	7531 Jan 02 18:21	25°♄38'15	
inferior conj	7530 Jan 24 14:05	5°♄20'25	0°37'54	min. Earth dist.	7531 Jan 06 21:50	21°♄21'07	0.66471 AU
minimum elong	7530 Jan 24 13:09	5°♄23'25	0°37'37	inferior conj	7531 Jan 08 14:43	19°♄17'27	-0°19'04
	7530 Jan 29 09:12	30°♄		minimum elong	7531 Jan 08 15:14	19°♄15'53	0°18'44
morning rise	7530 Jan 30 03:58	29°♄25'37		asc. node	7531 Jan 09 13:22	18°♄09'33	
direct	7530 Feb 02 14:50	28°♄17'00		morning rise	7531 Jan 14 12:54	13°♄32'49	
	7530 Feb 07 03:07	0°♄		direct	7531 Jan 17 13:11	12°♄41'44	
morning max el	7530 Feb 09 16:22	2°♄11'40	19°18'56	morning max el	7531 Jan 24 03:31	16°♄15'50	18°31'59
greatest brilliancy	7530 Feb 22 19:07	19°♄36'40	-0.7m		7531 Feb 03 10:51	0°♄	
desc. node	7530 Feb 26 18:12	25°♄36'08		morning set	7531 Feb 13 15:26	16°♄00'13	
	7530 Mar 01 15:09	0°♄		desc. node	7531 Feb 13 15:08	15°♄59'01	
morning set	7530 Mar 05 19:11	6°♄25'20			7531 Feb 22 12:18	0°♄	
max. Earth dist.	7530 Mar 18 23:07	26°♄56'55	1.44903 AU				
	7530 Mar 20 21:26	0°♄		superior conj	7531 Mar 01 15:58	11°♄12'50	-1°39'14
				minimum elong	7531 Mar 01 06:23	10°♄35'17	1°38'17
superior conj	7530 Mar 22 10:25	2°♄26'50	-2°05'07	max. Earth dist.	7531 Mar 01 17:43	11°♄19'40	1.45458 AU
minimum elong	7530 Mar 22 04:54	2°♄04'52	2°04'52		7531 Mar 13 14:51	0°♄	
evening rise	7530 Apr 05 17:57	25°♄43'38		evening rise	7531 Mar 17 09:38	5°♄59'33	
	7530 Apr 08 07:42	0°♄		greatest brilliancy	7531 Mar 26 08:48	20°♄11'42	-0.8m
asc. node	7530 Apr 20 15:22	19°♄31'05			7531 Apr 01 19:55	0°♄	
evening max el	7530 Apr 24 23:15	24°♄45'35	18°21'19	asc. node	7531 Apr 07 12:26	7°♄21'36	
retrograde	7530 May 01 09:13	28°♄12'27		evening max el	7531 Apr 08 09:48	8°♄17'59	18°54'03
evening set	7530 May 04 10:14	27°♄21'47		retrograde	7531 Apr 15 03:49	12°♄03'47	
inferior conj	7530 May 10 07:07	21°♄55'23	3°19'03	evening set	7531 Apr 18 12:03	10°♄59'11	
minimum elong	7530 May 10 08:22	21°♄51'45	3°18'52	inferior conj	7531 Apr 24 01:40	5°♄16'11	3°25'37
min. Earth dist.	7530 May 12 15:36	19°♄12'59	0.64169 AU	minimum elong	7531 Apr 24 01:33	5°♄16'34	3°25'33
morning rise	7530 May 16 05:31	15°♄41'50		min. Earth dist.	7531 Apr 25 18:43	3°♄07'31	0.65848 AU
direct	7530 May 22 23:17	12°♄58'50			7531 Apr 28 12:44	30°♄	
desc. node	7530 May 25 17:43	13°♄23'09		morning rise	7531 Apr 29 14:34	28°♄59'09	
morning max el	7530 Jun 05 16:31	20°♄58'00	27°32'37	direct	7531 May 06 01:28	26°♄11'45	
	7530 Jun 13 11:51	0°♄		desc. node	7531 May 12 14:42	28°♄27'48	
	7530 Jul 02 23:51	0°♄			7531 May 14 18:22	0°♄	
morning set	7530 Jul 10 18:34	14°♄34'42		morning max el	7531 May 19 03:00	3°♄56'43	26°39'34
max. Earth dist.	7530 Jul 15 14:45	24°♄24'40	1.33060 AU		7531 Jun 07 21:27	0°♄	
asc. node	7530 Jul 17 14:34	28°♄36'06		morning set	7531 Jun 24 00:48	27°♄44'59	
	7530 Jul 18 06:21	0°♄			7531 Jun 25 05:06	0°♄	
				max. Earth dist.	7531 Jun 28 04:56	5°♄50'58	1.34423 AU
superior conj	7530 Jul 18 19:19	1°♄09'14	0°12'13				
minimum elong	7530 Jul 18 18:43	1°♄06'01	0°11'59	superior conj	7531 Jul 02 18:46	15°♄08'58	-0°17'11
behind sun begin	7530 Jul 18 15:06	0°♄46'41		minimum elong	7531 Jul 02 19:43	15°♄13'55	0°17'05
behind sun end	7530 Jul 18 22:20	1°♄25'22		asc. node	7531 Jul 04 11:35	18°♄41'33	
evening rise	7530 Jul 25 21:18	16°♄22'20			7531 Jul 09 20:40	0°♄	
	7530 Aug 01 15:20	0°♄		evening rise	7531 Jul 10 06:56	0°♄53'33	
evening max el	7530 Aug 16 20:01	22°♄03'42	22°39'17		7531 Jul 27 06:35	0°♄	
desc. node	7530 Aug 21 16:49	25°♄59'08		evening max el	7531 Jul 29 15:32	2°♄33'28	21°06'58
retrograde	7530 Aug 29 23:16	28°♄36'51		desc. node	7531 Aug 08 13:52	8°♄16'55	
evening set	7530 Sep 02 10:19	28°♄10'34		retrograde	7531 Aug 10 12:22	8°♄26'07	
min. Earth dist.	7530 Sep 10 03:31	24°♄45'20	0.55137 AU	evening set	7531 Aug 12 19:20	8°♄13'49	
inferior conj	7530 Sep 11 09:00	24°♄03'25	-5°08'06	inferior conj	7531 Aug 22 01:55	4°♄16'19	-3°51'16

minimum elong	7531 Aug 21 16:35	4° $\cap$ 29'28	3°48'34	desc. node	7532 Jul 25 10:57	17° $\Omega$ 55'31	
min. Earth dist.	7531 Aug 22 12:45	4° $\cap$ 01'02	0.54705 AU	inferior conj	7532 Jul 31 23:35	14° $\Omega$ 32'35	-1°58'50
morning rise	7531 Aug 30 14:22	0° $\cap$ 21'25		minimum elong	7532 Jul 31 18:07	14° $\Omega$ 40'57	1°56'51
	7531 Sep 01 08:32	30° $\cap$ 00		min. Earth dist.	7532 Aug 03 00:30	13° $\Omega$ 17'48	0.55239 AU
direct	7531 Sep 03 08:06	29° $\Omega$ 51'25		morning rise	7532 Aug 09 09:28	10° $\Omega$ 11'01	
	7531 Sep 05 07:04	0° $\cap$		direct	7532 Aug 13 21:29	9° $\Omega$ 26'25	
morning max el	7531 Sep 16 03:39	5° $\cap$ 57'14	22°40'29	morning max el	7532 Aug 27 16:54	16° $\Omega$ 16'24	24°25'56
asc. node	7531 Sep 30 11:01	25° $\cap$ 42'53			7532 Sep 07 17:53	0° $\cap$	
	7531 Oct 02 18:23	0° $\cap$		asc. node	7532 Sep 16 08:01	14° $\cap$ 54'22	
morning set	7531 Oct 08 10:41	11° $\cap$ 29'05		morning set	7532 Sep 21 22:25	26° $\cap$ 19'20	
					7532 Sep 23 15:34	0° $\cap$	
superior conj	7531 Oct 15 11:49	26° $\cap$ 33'28	1°41'43	superior conj	7532 Sep 28 20:04	11° $\cap$ 19'09	1°37'12
minimum elong	7531 Oct 15 11:32	26° $\cap$ 31'57	1°41'46	minimum elong	7532 Sep 28 18:44	11° $\cap$ 11'51	1°37'08
	7531 Oct 17 02:49	0° $\cap$		max. Earth dist.	7532 Sep 30 18:42	15° $\cap$ 32'08	1.32758 AU
max. Earth dist.	7531 Oct 18 17:36	3° $\cap$ 22'37	1.33947 AU	evening rise	7532 Oct 06 04:02	26° $\cap$ 51'13	
evening rise	7531 Oct 23 09:35	12° $\cap$ 48'01			7532 Oct 07 17:34	0° $\cap$	
	7531 Nov 01 18:43	0° $\cap$		desc. node	7532 Oct 21 09:56	24° $\cap$ 23'18	
desc. node	7531 Nov 04 12:51	4° $\cap$ 36'20			7532 Oct 25 02:25	0° $\cap$	
	7531 Nov 22 17:56	0° $\cap$		evening max el	7532 Nov 08 13:28	17° $\cap$ 43'35	27°28'31
evening max el	7531 Nov 27 02:02	4° $\cap$ 31'58	27°09'51	retrograde	7532 Nov 22 06:12	25° $\cap$ 01'46	
retrograde	7531 Dec 10 11:10	11° $\cap$ 51'54		evening set	7532 Nov 29 07:57	22° $\cap$ 29'31	
evening set	7531 Dec 17 06:20	9° $\cap$ 14'34		min. Earth dist.	7532 Dec 03 01:10	19° $\cap$ 17'57	0.63433 AU
min. Earth dist.	7531 Dec 21 03:57	5° $\cap$ 31'42	0.65117 AU	inferior conj	7532 Dec 05 17:03	16° $\cap$ 37'46	-2°29'32
inferior conj	7531 Dec 23 08:35	3° $\cap$ 05'24	-1°22'09	minimum elong	7532 Dec 05 21:41	16° $\cap$ 26'08	2°27'40
minimum elong	7531 Dec 23 11:02	2° $\cap$ 58'37	1°21'01	morning rise	7532 Dec 12 13:16	11° $\cap$ 21'31	
	7531 Dec 26 07:28	30° $\cap$ 00		asc. node	7532 Dec 13 07:24	11° $\cap$ 06'59	
asc. node	7531 Dec 27 10:23	29° $\cap$ 01'15		direct	7532 Dec 14 22:32	10° $\cap$ 54'04	
morning rise	7531 Dec 29 17:02	27° $\cap$ 33'31		morning max el	7532 Dec 21 12:31	14° $\cap$ 18'31	17°48'40
direct	7532 Jan 01 08:39	26° $\cap$ 56'12			7533 Jan 01 10:31	0° $\cap$	
	7532 Jan 07 10:38	0° $\cap$		morning set	7533 Jan 06 21:29	9° $\cap$ 23'36	
morning max el	7532 Jan 07 19:14	0° $\cap$ 20'48	18°01'40	desc. node	7533 Jan 17 09:08	27° $\cap$ 15'16	
morning set	7532 Jan 25 17:18	27° $\cap$ 03'43					
	7532 Jan 27 12:04	0° $\cap$		superior conj	7533 Jan 19 05:03	0° $\cap$ 16'46	-0°13'12
desc. node	7532 Jan 31 12:07	6° $\cap$ 33'27		minimum elong	7533 Jan 19 03:38	0° $\cap$ 10'57	0°12'54
				behind sun begin	7533 Jan 18 21:52	29° $\cap$ 47'12	
superior conj	7532 Feb 09 00:35	20° $\cap$ 14'51	-0°58'23	behind sun end	7533 Jan 19 09:24	0° $\cap$ 34'40	
minimum elong	7532 Feb 08 17:43	19° $\cap$ 47'37	0°57'25		7533 Jan 19 00:58	0° $\cap$	
max. Earth dist.	7532 Feb 12 13:15	25° $\cap$ 49'01	1.45266 AU	max. Earth dist.	7533 Jan 25 07:06	10° $\cap$ 08'22	1.44358 AU
	7532 Feb 15 05:19	0° $\cap$		evening rise	7533 Feb 03 16:14	24° $\cap$ 49'14	
evening rise	7532 Feb 25 05:16	15° $\cap$ 31'07			7533 Feb 07 01:31	0° $\cap$	
	7532 Mar 05 15:51	0° $\cap$			7533 Feb 27 21:53	0° $\cap$	
greatest brilliancy	7532 Mar 09 21:49	6° $\cap$ 22'57	-0.7m	evening max el	7533 Mar 04 16:51	5° $\cap$ 32'06	20°46'42
evening max el	7532 Mar 21 15:59	21° $\cap$ 54'01	19°43'17	asc. node	7533 Mar 11 06:33	10° $\cap$ 09'13	
asc. node	7532 Mar 24 09:29	24° $\cap$ 19'02		retrograde	7533 Mar 13 00:03	10° $\cap$ 24'41	
retrograde	7532 Mar 29 01:34	26° $\cap$ 09'21		evening set	7533 Mar 17 01:32	8° $\cap$ 50'39	
evening set	7532 Apr 01 17:49	24° $\cap$ 50'18		inferior conj	7533 Mar 22 09:11	2° $\cap$ 40'37	2°59'07
inferior conj	7532 Apr 07 03:14	18° $\cap$ 52'40	3°18'05	minimum elong	7533 Mar 22 07:12	2° $\cap$ 47'26	2°58'44
minimum elong	7532 Apr 07 01:59	18° $\cap$ 56'47	3°17'55	min. Earth dist.	7533 Mar 22 21:48	1° $\cap$ 57'11	0.67926 AU
min. Earth dist.	7532 Apr 08 05:28	17° $\cap$ 25'19	0.67107 AU		7533 Mar 24 08:34	30° $\cap$ 00	
morning rise	7532 Apr 12 09:52	12° $\cap$ 35'37		morning rise	7533 Mar 27 12:39	26° $\cap$ 25'50	
direct	7532 Apr 18 09:53	9° $\cap$ 55'01		direct	7533 Apr 01 23:30	24° $\cap$ 00'35	
desc. node	7532 Apr 28 11:41	15° $\cap$ 12'23			7533 Apr 12 08:42	0° $\cap$	
morning max el	7532 Apr 30 12:43	17° $\cap$ 10'38	25°24'15	morning max el	7533 Apr 12 21:36	0° $\cap$ 32'11	23°56'58
	7532 May 11 05:15	0° $\cap$		desc. node	7533 Apr 15 08:41	3° $\cap$ 09'47	
	7532 May 30 20:48	0° $\cap$			7533 May 05 02:52	0° $\cap$	
morning set	7532 Jun 05 15:44	10° $\cap$ 08'38		morning set	7533 May 18 10:03	21° $\cap$ 31'44	
max. Earth dist.	7532 Jun 09 08:02	16° $\cap$ 55'34	1.36237 AU	max. Earth dist.	7533 May 22 04:14	28° $\cap$ 05'40	1.38381 AU
					7533 May 23 05:50	0° $\cap$	
superior conj	7532 Jun 15 09:15	28° $\cap$ 38'42	-0°48'23	superior conj	7533 May 29 11:21	11° $\cap$ 30'16	-1°19'18
minimum elong	7532 Jun 15 12:07	28° $\cap$ 52'59	0°47'56	minimum elong	7533 May 29 16:05	11° $\cap$ 52'44	1°18'40
	7532 Jun 16 01:33	0° $\cap$		evening rise	7533 Jun 07 11:19	29° $\cap$ 00'19	
asc. node	7532 Jun 20 08:37	8° $\cap$ 41'39		asc. node	7533 Jun 07 05:40	28° $\cap$ 32'36	
evening rise	7532 Jun 23 12:28	15° $\cap$ 08'27			7533 Jun 07 23:30	0° $\cap$	
	7532 Jul 01 05:27	0° $\cap$		evening max el	7533 Jun 23 20:33	25° $\cap$ 35'47	18°55'59
evening max el	7532 Jul 10 23:49	13° $\cap$ 42'27	19°51'21	retrograde	7533 Jul 02 09:48	29° $\cap$ 49'02	
retrograde	7532 Jul 21 04:01	18° $\cap$ 42'58					
evening set	7532 Jul 23 00:49	18° $\cap$ 33'36					



evening set	7533 Jul 04 09:23	29°☿36'20		7534 May 31 21:33	0°☿	
desc. node	7533 Jul 12 08:00	25°☿30'46		evening max el	7534 Jun 07 02:25	8°☿06'20 18°21'11
inferior conj	7533 Jul 12 14:11	25°☿19'51 -0°04'40		retrograde	7534 Jun 14 10:56	11°☿46'54
minimum elong	7533 Jul 12 13:59	25°☿20'12 0°04'41		evening set	7534 Jun 16 17:28	11°☿26'44
transit middle	7533 Jul 12 13:59	25°☿20'12 0°04'41		inferior conj	7534 Jun 24 02:25	6°☿49'47 1°27'17
transit begin	7533 Jul 12 10:25	25°☿26'31		minimum elong	7534 Jun 24 05:07	6°☿44'11 1°26'17
transit end	7533 Jul 12 17:34	25°☿13'52		min. Earth dist.	7534 Jun 27 12:08	4°☿01'56 0.58630 AU
min. Earth dist.	7533 Jul 15 15:46	23°☿10'45 0.56644 AU		desc. node	7534 Jun 29 05:03	2°☿45'51
morning rise	7533 Jul 20 15:17	20°☿22'01		morning rise	7534 Jul 01 13:33	1°☿18'14
direct	7533 Jul 26 00:19	19°☿13'10			7534 Jul 04 20:23	30°☿II
morning max el	7533 Aug 09 06:45	26°☿35'59 26°02'31		direct	7534 Jul 07 16:54	29°II38'18
	7533 Aug 12 12:53	0°♊			7534 Jul 10 14:40	0°☿
	7533 Aug 31 22:59	0°♊		morning max el	7534 Jul 22 02:09	7°☿22'58 27°14'29
asc. node	7533 Sep 03 05:02	4°♊28'22			7534 Aug 08 02:10	0°♊
morning set	7533 Sep 06 09:28	11°♊05'27		asc. node	7534 Aug 21 02:04	24°♊18'10
				morning set	7534 Aug 21 18:10	25°♊42'35
					7534 Aug 23 18:28	0°♊
superior conj	7533 Sep 13 07:04	26°♊10'25 1°27'03		superior conj	7534 Aug 28 18:54	11°♊01'10 1°11'48
minimum elong	7533 Sep 13 05:02	25°♊59'15 1°26'49		minimum elong	7534 Aug 28 16:38	10°♊48'38 1°11'25
max. Earth dist.	7533 Sep 14 02:10	27°♊55'55 1.32019 AU		max. Earth dist.	7534 Aug 28 12:41	10°♊26'40 1.31721 AU
	7533 Sep 15 00:42	0°♊		evening rise	7534 Sep 04 13:47	25°♊52'17
evening rise	7533 Sep 20 06:17	11°♊15'11			7534 Sep 06 13:00	0°♊
	7533 Sep 29 22:38	0°♊			7534 Sep 23 16:31	0°♊
desc. node	7533 Oct 08 07:00	13°♊36'33		desc. node	7534 Sep 25 04:04	2°♊02'44
	7533 Oct 21 12:39	0°♊		evening max el	7534 Oct 03 22:26	12°♊10'39 26°28'52
evening max el	7533 Oct 21 21:12	0°♊20'21 27°15'37		retrograde	7534 Oct 17 20:26	19°♊17'04
retrograde	7533 Nov 04 17:43	7°♊32'34		evening set	7534 Oct 24 12:59	17°♊26'38
evening set	7533 Nov 11 19:39	5°♊15'53		min. Earth dist.	7534 Oct 28 11:54	14°♊51'54 0.59416 AU
min. Earth dist.	7533 Nov 15 11:55	2°♊28'53 0.61492 AU		inferior conj	7534 Oct 31 16:56	12°♊23'03 -4°39'01
	7533 Nov 18 07:03	30°☿♊		minimum elong	7534 Oct 31 23:51	12°♊09'37 4°37'22
inferior conj	7533 Nov 18 12:59	29°♊46'44 -3°37'31		morning rise	7534 Nov 08 12:58	7°♊47'48
minimum elong	7533 Nov 18 19:31	29°♊32'11 3°35'20		direct	7534 Nov 10 19:21	7°♊29'35
morning rise	7533 Nov 25 21:33	24°♊49'23		asc. node	7534 Nov 17 01:30	9°♊57'06
direct	7533 Nov 28 03:31	24°♊28'07		morning max el	7534 Nov 18 14:47	11°♊18'59 18°18'35
asc. node	7533 Nov 30 04:27	24°♊46'15			7534 Nov 30 23:27	0°♊
morning max el	7533 Dec 05 04:10	28°♊00'46 17°53'49		morning set	7534 Dec 04 11:08	6°♊34'13
	7533 Dec 06 23:57	0°♊				
morning set	7533 Dec 20 21:21	22°♊39'22		superior conj	7534 Dec 13 17:07	23°♊56'56 0°59'31
	7533 Dec 24 22:33	0°♊		minimum elong	7534 Dec 13 20:39	24°♊13'01 0°59'08
					7534 Dec 17 01:47	0°♊
superior conj	7533 Dec 31 11:17	11°♊32'48 0°27'31		max. Earth dist.	7534 Dec 21 07:12	7°♊21'18 1.40899 AU
minimum elong	7533 Dec 31 13:36	11°♊42'51 0°27'16		desc. node	7534 Dec 22 03:08	8°♊46'05
desc. node	7534 Jan 04 06:08	18°♊00'30		evening rise	7534 Dec 25 22:00	15°♊04'44
max. Earth dist.	7534 Jan 07 21:27	24°♊03'17 1.42845 AU			7535 Jan 04 09:06	0°♊
	7534 Jan 11 13:30	0°♊			7535 Jan 26 10:42	0°♊
evening rise	7534 Jan 14 09:57	4°♊31'27		evening max el	7535 Jan 29 04:01	2°♊53'42 23°20'10
	7534 Jan 31 10:15	0°♊		retrograde	7535 Feb 08 16:05	9°♊06'27
evening max el	7534 Feb 15 12:28	19°♊11'37 22°00'41		asc. node	7535 Feb 13 00:41	7°♊32'22
retrograde	7534 Feb 24 21:22	24°♊44'57		evening set	7535 Feb 13 16:02	7°♊02'02
asc. node	7534 Feb 26 03:38	24°♊36'45		min. Earth dist.	7535 Feb 18 14:08	1°♊16'02 0.68291 AU
evening set	7534 Mar 01 09:27	22°♊55'38		inferior conj	7535 Feb 19 01:47	0°♊35'59 1°52'58
inferior conj	7534 Mar 06 17:20	16°♊35'54 2°30'23		minimum elong	7535 Feb 18 23:38	0°♊43'21 1°52'17
minimum elong	7534 Mar 06 15:03	16°♊43'51 2°29'47			7535 Feb 19 12:16	30°☿♊
min. Earth dist.	7534 Mar 06 17:25	16°♊35'37 0.68314 AU		morning rise	7535 Feb 24 07:12	24°♊30'04
morning rise	7534 Mar 11 20:28	10°♊24'53		direct	7535 Feb 28 13:53	22°♊48'11
direct	7534 Mar 16 17:11	8°♊20'21		morning max el	7535 Mar 09 00:17	27°♊39'30 21°04'30
morning max el	7534 Mar 26 08:13	14°♊00'26 22°27'38			7535 Mar 11 05:02	0°♊
desc. node	7534 Apr 02 05:40	21°♊59'06		desc. node	7535 Mar 20 02:37	11°♊26'07
	7534 Apr 08 05:18	0°♊			7535 Apr 01 18:52	0°♊
	7534 Apr 28 01:39	0°♊		morning set	7535 Apr 08 15:07	10°♊33'30
morning set	7534 Apr 29 02:11	1°♊39'44		max. Earth dist.	7535 Apr 16 04:52	22°♊40'08 1.42663 AU
max. Earth dist.	7534 May 04 01:26	9°♊55'28 1.40621 AU			7535 Apr 20 15:15	0°♊
				superior conj	7535 Apr 23 08:18	4°♊34'46 -2°05'54
superior conj	7534 May 11 20:37	23°♊32'35 -1°46'43		minimum elong	7535 Apr 23 12:17	4°♊51'46 2°05'47
minimum elong	7534 May 12 02:15	23°♊57'56 1°46'13		evening rise	7535 May 04 22:45	24°♊58'28
	7534 May 15 09:43	0°♊				
evening rise	7534 May 22 00:06	12°♊20'11				
asc. node	7534 May 25 02:42	18°♊09'17				

	7535 May 07 18:02	0°♊		evening rise	7536 Apr 16 02:38	6°♎45'04	
asc. node	7535 May 11 23:45	7°♊26'23		asc. node	7536 Apr 27 20:48	26°♎17'14	
evening max el	7535 May 21 13:38	21°♊04'47	18°06'17		7536 Apr 30 10:34	0°♊	
retrograde	7535 May 28 05:18	24°♊28'45		evening max el	7536 May 04 02:51	4°♊22'27	18°10'34
evening set	7535 May 30 19:08	23°♊58'14		retrograde	7536 May 10 12:19	7°♊44'34	
inferior conj	7535 Jun 06 10:55	19°♊00'58	2°30'21	evening set	7536 May 13 09:10	7°♊01'46	
minimum elong	7535 Jun 06 13:59	18°♊53'36	2°29'30	inferior conj	7536 May 19 11:49	1°♊45'45	3°07'26
min. Earth dist.	7535 Jun 09 15:59	15°♊57'16	0.60858 AU	minimum elong	7536 May 19 13:53	1°♊40'08	3°07'02
morning rise	7535 Jun 13 06:26	13°♊05'13			7536 May 21 02:33	30°♎	
desc. node	7535 Jun 16 02:04	11°♊37'13		min. Earth dist.	7536 May 22 04:55	28°♎49'39	0.63026 AU
direct	7535 Jun 19 21:27	10°♊54'05		morning rise	7536 May 25 17:07	25°♎36'14	
morning max el	7535 Jul 04 04:26	18°♊52'17	27°51'10	direct	7536 Jun 01 11:59	23°♎01'16	
	7535 Jul 13 13:51	0°♎		desc. node	7536 Jun 01 23:04	23°♎01'56	
	7535 Jul 31 21:19	0°♏			7536 Jun 14 09:45	0°♊	
morning set	7535 Aug 05 22:40	10°♏04'46		morning max el	7536 Jun 15 11:55	1°♊04'02	27°49'39
asc. node	7535 Aug 07 23:03	14°♏17'58			7536 Jul 06 17:33	0°♎	
max. Earth dist.	7535 Aug 11 22:14	22°♏51'52	1.31873 AU	morning set	7536 Jul 19 20:49	24°♎05'59	
					7536 Jul 22 17:58	0°♏	
superior conj	7535 Aug 13 05:47	25°♏45'15	0°51'54	asc. node	7536 Jul 24 20:02	4°♏23'31	
minimum elong	7535 Aug 13 03:45	25°♏34'06	0°51'27	max. Earth dist.	7536 Jul 25 02:54	5°♏00'04	1.32486 AU
	7535 Aug 15 03:56	0°♎					
evening rise	7535 Aug 20 00:19	10°♎35'16		superior conj	7536 Jul 27 13:55	10°♏17'26	0°27'48
	7535 Aug 29 20:26	0°♏		minimum elong	7536 Jul 27 12:38	10°♏10'32	0°27'27
desc. node	7535 Sep 12 01:08	19°♏22'21		evening rise	7536 Aug 03 12:02	25°♏18'32	
evening max el	7535 Sep 15 15:26	23°♏09'32	25°11'54		7536 Aug 05 17:29	0°♎	
	7535 Sep 27 09:27	0°♎			7536 Aug 23 19:56	0°♏	
retrograde	7535 Sep 29 12:52	0°♎10'45		evening max el	7536 Aug 27 03:11	3°♏31'49	23°36'18
	7535 Oct 01 16:18	30°♎		desc. node	7536 Aug 28 22:11	5°♏09'43	
evening set	7535 Oct 05 07:06	28°♏54'59		retrograde	7536 Sep 09 17:22	10°♏20'17	
min. Earth dist.	7535 Oct 10 03:00	26°♏14'28	0.57409 AU	evening set	7536 Sep 14 01:11	9°♏39'18	
inferior conj	7535 Oct 13 01:31	24°♏16'02	-5°21'44	min. Earth dist.	7536 Sep 20 13:12	6°♏34'20	0.55778 AU
minimum elong	7535 Oct 13 05:32	24°♏09'16	5°21'18	inferior conj	7536 Sep 22 13:56	5°♏21'38	-5°27'55
morning rise	7535 Oct 21 06:17	20°♏04'00		minimum elong	7536 Sep 22 11:16	5°♏25'39	5°27'46
direct	7535 Oct 23 17:28	19°♏46'08		morning rise	7536 Sep 30 23:35	1°♏27'45	
morning max el	7535 Nov 01 16:44	24°♏02'12	19°04'37	direct	7536 Oct 03 20:00	1°♏07'38	
asc. node	7535 Nov 03 22:30	26°♏25'28		morning max el	7536 Oct 14 06:57	6°♏01'16	20°12'56
	7535 Nov 06 16:21	0°♎		asc. node	7536 Oct 20 19:30	13°♏56'06	
morning set	7535 Nov 18 10:23	20°♎54'31			7536 Oct 29 22:12	0°♎	
	7535 Nov 23 00:26	0°♎		morning set	7536 Nov 01 15:58	5°♎31'23	
superior conj	7535 Nov 26 17:22	7°♎13'34	1°22'01	superior conj	7536 Nov 09 07:07	21°♎08'42	1°35'40
minimum elong	7535 Nov 26 20:25	7°♎28'16	1°21'48	minimum elong	7536 Nov 09 08:57	21°♎17'57	1°35'38
max. Earth dist.	7535 Dec 03 12:56	19°♎55'03	1.38751 AU		7536 Nov 13 18:50	0°♎	
evening rise	7535 Dec 07 08:10	26°♎36'50		max. Earth dist.	7536 Nov 14 19:08	1°♎56'26	1.36660 AU
desc. node	7535 Dec 09 00:09	29°♎27'49		evening rise	7536 Nov 18 14:59	9°♎04'12	
	7535 Dec 09 07:45	0°♎		desc. node	7536 Nov 24 21:11	20°♎01'43	
	7535 Dec 28 22:57	0°♎			7536 Dec 01 00:44	0°♎	
evening max el	7536 Jan 11 17:17	16°♎38'24	24°39'08		7536 Dec 23 20:09	0°♎	
retrograde	7536 Jan 23 07:06	23°♎23'57		evening max el	7536 Dec 24 06:12	0°♎24'42	25°50'35
evening set	7536 Jan 28 19:42	21°♎05'47		retrograde	7537 Jan 05 17:26	7°♎32'04	
asc. node	7536 Jan 30 21:45	19°♎00'50		evening set	7537 Jan 11 18:49	5°♎02'49	
min. Earth dist.	7536 Feb 02 09:44	15°♎53'54	0.67874 AU	min. Earth dist.	7537 Jan 16 01:58	0°♎25'27	0.67084 AU
inferior conj	7536 Feb 03 08:41	14°♎37'33	1°07'30		7537 Jan 16 10:06	30°♎	
minimum elong	7536 Feb 03 07:10	14°♎42'36	1°06'59	asc. node	7537 Jan 16 18:47	29°♎32'36	
morning rise	7536 Feb 08 18:49	8°♎38'13		inferior conj	7537 Jan 17 12:12	28°♎37'33	0°14'33
direct	7536 Feb 12 12:26	7°♎18'18		minimum elong	7537 Jan 17 11:49	28°♎38'44	0°14'30
morning max el	7536 Feb 20 00:00	11°♎30'27	19°53'14	transit middle	7537 Jan 17 11:49	28°♎38'44	0°14'30
greatest brilliancy	7536 Mar 04 02:18	28°♎33'29	-0.6m	transit begin	7537 Jan 17 10:35	28°♎42'38	
	7536 Mar 05 01:51	0°♎		transit end	7537 Jan 17 13:04	28°♎34'49	
desc. node	7536 Mar 05 23:34	1°♎20'20		morning rise	7537 Jan 23 05:21	22°♎46'40	
morning set	7536 Mar 17 12:28	18°♎50'04		direct	7537 Jan 26 11:23	21°♎46'04	
	7536 Mar 24 16:45	0°♎		morning max el	7537 Feb 02 07:24	25°♎31'00	18°56'54
max. Earth dist.	7536 Mar 28 15:11	6°♎13'15	1.44252 AU		7537 Feb 06 05:08	0°♎	
				desc. node	7537 Feb 20 20:32	21°♎34'23	
superior conj	7536 Apr 02 19:05	14°♎31'08	-2°10'53	morning set	7537 Feb 24 18:23	27°♎39'22	
minimum elong	7536 Apr 02 17:38	14°♎25'14	2°10'53		7537 Feb 26 06:29	0°♎	
	7536 Apr 12 03:17	0°♎		max. Earth dist.	7537 Mar 11 07:05	20°♎21'10	1.45221 AU

superior conj	7537 Mar 13 07:50	23° $\text{H}$ 32'46	-1°56'29	minimum elong	7538 Feb 20 03:05	1° $\text{H}$ 43'19	1°22'05
minimum elong	7537 Mar 12 23:49	23° $\text{H}$ 01'16	1°55'56	max. Earth dist.	7538 Feb 22 02:27	4° $\text{H}$ 49'00	1.45469 AU
	7537 Mar 17 09:48	0° $\text{Y}$		evening rise	7538 Mar 08 14:03	27° $\text{H}$ 27'14	
evening rise	7537 Mar 28 07:46	17° $\text{Y}$ 32'46			7538 Mar 10 05:07	0° $\text{Y}$	
	7537 Apr 04 23:43	0° $\text{B}$		greatest brilliancy	7538 Mar 19 18:09	14° $\text{Y}$ 50'02	-0.8m
asc. node	7537 Apr 14 17:51	14° $\text{B}$ 32'43			7538 Mar 30 16:04	0° $\text{B}$	
evening max el	7537 Apr 17 15:06	17° $\text{B}$ 51'11	18°33'14	evening max el	7538 Apr 01 00:05	1° $\text{B}$ 26'02	19°13'09
retrograde	7537 Apr 24 03:35	21° $\text{B}$ 24'40		asc. node	7538 Apr 01 14:55	2° $\text{B}$ 02'31	
evening set	7537 Apr 27 07:34	20° $\text{B}$ 28'17		retrograde	7538 Apr 07 23:45	5° $\text{B}$ 22'48	
inferior conj	7537 May 03 00:58	14° $\text{B}$ 54'57	3°23'47	evening set	7538 Apr 11 11:21	4° $\text{B}$ 12'02	
minimum elong	7537 May 03 01:37	14° $\text{B}$ 52'59	3°23'40		7538 Apr 15 16:16	30° $\text{R}$ $\text{Y}$	
min. Earth dist.	7537 May 05 03:01	12° $\text{B}$ 25'14	0.64927 AU	inferior conj	7538 Apr 16 22:51	28° $\text{Y}$ 22'47	3°23'57
morning rise	7537 May 08 18:54	8° $\text{B}$ 39'21		minimum elong	7538 Apr 16 22:13	28° $\text{Y}$ 24'50	3°23'51
direct	7537 May 15 10:29	5° $\text{B}$ 52'36		min. Earth dist.	7538 Apr 18 09:30	26° $\text{Y}$ 31'06	0.66442 AU
desc. node	7537 May 19 20:04	6° $\text{B}$ 54'16		morning rise	7538 Apr 22 08:43	22° $\text{Y}$ 05'41	
morning max el	7537 May 28 21:50	13° $\text{B}$ 48'03	27°13'21	direct	7538 Apr 28 15:32	19° $\text{Y}$ 19'48	
	7537 Jun 11 00:04	0° $\text{II}$		desc. node	7538 May 06 17:04	22° $\text{Y}$ 45'03	
	7537 Jun 29 09:10	0° $\text{E}$		morning max el	7538 May 11 07:55	26° $\text{Y}$ 53'32	26°09'37
morning set	7537 Jul 03 09:49	7° $\text{E}$ 37'15			7538 May 14 05:24	0° $\text{B}$	
max. Earth dist.	7537 Jul 07 22:50	16° $\text{E}$ 40'44	1.33578 AU		7538 Jun 04 15:13	0° $\text{II}$	
				morning set	7538 Jun 16 10:05	20° $\text{II}$ 28'41	
superior conj	7537 Jul 11 17:12	24° $\text{E}$ 30'50	0°00'04	max. Earth dist.	7538 Jun 20 07:58	27° $\text{II}$ 54'46	1.35148 AU
minimum elong	7537 Jul 11 17:12	24° $\text{E}$ 30'49	0°00'02		7538 Jun 21 09:37	0° $\text{E}$	
behind sun begin	7537 Jul 11 11:59	24° $\text{E}$ 03'18					
behind sun end	7537 Jul 11 22:25	24° $\text{E}$ 58'23		superior conj	7538 Jun 25 13:13	8° $\text{E}$ 18'40	-0°30'17
asc. node	7537 Jul 11 17:02	24° $\text{E}$ 29'57		minimum elong	7538 Jun 25 14:57	8° $\text{E}$ 27'31	0°30'02
	7537 Jul 14 07:09	0° $\text{Q}$		asc. node	7538 Jun 28 14:04	14° $\text{E}$ 33'28	
evening rise	7537 Jul 18 22:57	9° $\text{Q}$ 55'28		evening rise	7538 Jul 03 07:07	24° $\text{E}$ 20'19	
	7537 Jul 29 09:12	0° $\text{M}$			7538 Jul 06 01:51	0° $\text{Q}$	
evening max el	7537 Aug 08 17:34	13° $\text{M}$ 49'13	21°58'30	evening max el	7538 Jul 21 18:17	24° $\text{Q}$ 33'52	20°32'25
desc. node	7537 Aug 15 19:15	18° $\text{M}$ 52'43			7538 Jul 31 15:20	0° $\text{M}$	
retrograde	7537 Aug 21 09:54	20° $\text{M}$ 06'54		retrograde	7538 Aug 01 21:58	0° $\text{M}$ 04'11	
evening set	7537 Aug 24 06:50	19° $\text{M}$ 48'30		desc. node	7538 Aug 02 16:19	0° $\text{M}$ 02'43	
inferior conj	7537 Sep 02 10:47	15° $\text{M}$ 47'10	-4°41'41		7538 Aug 03 05:03	30° $\text{R}$ $\text{Q}$	
minimum elong	7537 Sep 02 02:04	15° $\text{M}$ 59'23	4°39'49	evening set	7538 Aug 03 22:46	29° $\text{Q}$ 53'59	
min. Earth dist.	7537 Sep 01 22:06	16° $\text{M}$ 04'57	0.54843 AU	inferior conj	7538 Aug 13 03:50	25° $\text{Q}$ 56'55	-3°05'56
morning rise	7537 Sep 10 22:42	11° $\text{M}$ 58'05		minimum elong	7538 Aug 12 19:34	26° $\text{Q}$ 08'49	3°03'12
direct	7537 Sep 14 08:00	11° $\text{M}$ 32'42		min. Earth dist.	7538 Aug 14 08:00	25° $\text{Q}$ 16'19	0.54822 AU
morning max el	7537 Sep 26 08:20	17° $\text{M}$ 11'43	21°42'06	morning rise	7538 Aug 21 15:53	21° $\text{Q}$ 53'02	
	7537 Oct 06 07:58	0° $\text{A}$		direct	7538 Aug 25 17:11	21° $\text{Q}$ 17'46	
asc. node	7537 Oct 07 16:29	2° $\text{A}$ 14'46		morning max el	7538 Sep 08 00:03	27° $\text{Q}$ 42'46	23°25'18
morning set	7537 Oct 17 01:27	20° $\text{A}$ 17'58			7538 Sep 10 06:35	0° $\text{M}$	
	7537 Oct 21 15:39	0° $\text{M}$		asc. node	7538 Sep 24 13:30	21° $\text{M}$ 09'58	
					7538 Sep 29 01:40	0° $\text{A}$	
superior conj	7537 Oct 24 06:23	5° $\text{M}$ 30'32	1°41'30	morning set	7538 Oct 01 12:51	5° $\text{A}$ 08'34	
minimum elong	7537 Oct 24 06:50	5° $\text{M}$ 32'54	1°41'34				
max. Earth dist.	7537 Oct 28 07:22	13° $\text{M}$ 49'25	1.34832 AU	superior conj	7538 Oct 08 12:04	20° $\text{A}$ 09'43	1°40'31
evening rise	7537 Nov 01 14:42	22° $\text{M}$ 17'04		minimum elong	7538 Oct 08 11:17	20° $\text{A}$ 05'34	1°40'32
	7537 Nov 05 18:19	0° $\text{J}$		max. Earth dist.	7538 Oct 11 04:08	25° $\text{A}$ 51'50	1.33393 AU
desc. node	7537 Nov 11 18:14	10° $\text{J}$ 22'56			7538 Oct 13 03:35	0° $\text{M}$	
	7537 Nov 24 18:57	0° $\text{B}$		evening rise	7538 Oct 16 03:19	6° $\text{M}$ 04'37	
evening max el	7537 Dec 06 19:28	14° $\text{B}$ 06'58	26°47'06		7538 Oct 29 09:10	0° $\text{J}$	
retrograde	7537 Dec 19 22:16	21° $\text{B}$ 24'32		desc. node	7538 Oct 29 15:18	0° $\text{J}$ 24'49	
evening set	7537 Dec 26 11:32	18° $\text{B}$ 48'39		evening max el	7538 Nov 19 08:11	27° $\text{J}$ 33'38	27°21'23
min. Earth dist.	7537 Dec 30 12:33	14° $\text{B}$ 45'56	0.65933 AU		7538 Nov 22 02:16	0° $\text{B}$	
inferior conj	7538 Jan 01 10:18	12° $\text{B}$ 32'00	-0°45'08	retrograde	7538 Dec 02 20:50	4° $\text{B}$ 52'37	
minimum elong	7538 Jan 01 11:35	12° $\text{B}$ 28'15	0°44'29	evening set	7538 Dec 09 19:28	2° $\text{B}$ 16'32	
asc. node	7538 Jan 03 15:49	10° $\text{B}$ 01'07			7538 Dec 12 10:18	30° $\text{R}$ $\text{J}$	
morning rise	7538 Jan 07 12:36	6° $\text{B}$ 52'08		min. Earth dist.	7538 Dec 13 15:05	28° $\text{J}$ 47'29	0.64440 AU
direct	7538 Jan 10 08:56	6° $\text{B}$ 07'20		inferior conj	7538 Dec 16 00:33	26° $\text{J}$ 14'22	-1°50'22
morning max el	7538 Jan 16 20:48	9° $\text{B}$ 36'20	18°16'57	minimum elong	7538 Dec 16 03:54	26° $\text{J}$ 05'24	1°48'54
	7538 Jan 31 05:42	0° $\text{A}$		asc. node	7538 Dec 21 12:52	21° $\text{J}$ 20'17	
morning set	7538 Feb 05 03:13	7° $\text{A}$ 52'37		morning rise	7538 Dec 22 13:50	20° $\text{J}$ 48'35	
desc. node	7538 Feb 07 17:31	12° $\text{A}$ 03'01		direct	7538 Dec 25 02:33	20° $\text{J}$ 15'47	
	7538 Feb 19 00:47	0° $\text{H}$		morning max el	7538 Dec 31 13:32	23° $\text{J}$ 38'59	17°53'59
					7539 Jan 05 16:17	0° $\text{B}$	
superior conj	7538 Feb 20 12:15	2° $\text{H}$ 19'17	-1°23'09	morning set	7539 Jan 17 17:05	19° $\text{B}$ 31'25	

	7539 Jan 23 23:28	0°♊		superior conj	7540 Jan 11 19:08	22°♊16'07	0°05'00
desc. node	7539 Jan 25 14:31	2°♊41'05		minimum elong	7540 Jan 11 19:38	22°♊18'13	0°05'01
				behind sun begin	7540 Jan 11 10:59	21°♊41'54	
superior conj	7539 Jan 31 03:46	11°♊42'33	-0°39'07	behind sun end	7540 Jan 12 04:17	22°♊54'28	
minimum elong	7539 Jan 30 23:14	11°♊24'19	0°38'23	desc. node	7540 Jan 12 11:33	23°♊24'52	
max. Earth dist.	7539 Feb 04 22:12	19°♊18'20	1.44968 AU		7540 Jan 16 11:15	0°♊	
	7539 Feb 11 18:16	0°♊		max. Earth dist.	7540 Jan 18 14:59	3°♊29'49	1.43784 AU
evening rise	7539 Feb 16 04:17	6°♊48'56		evening rise	7540 Jan 26 16:16	16°♊12'40	
greatest brilliancy	7539 Mar 02 23:44	29°♊08'39	-0.6m		7540 Feb 04 18:15	0°♊	
	7539 Mar 03 13:50	0°♊		evening max el	7540 Feb 26 02:33	28°♊40'49	21°17'04
evening max el	7539 Mar 15 04:07	15°♊02'58	20°08'41		7540 Feb 27 11:12	0°♊	
asc. node	7539 Mar 19 11:59	18°♊33'10		asc. node	7540 Mar 05 09:04	3°♊49'46	
retrograde	7539 Mar 22 22:03	19°♊33'05		retrograde	7540 Mar 05 20:21	3°♊50'55	
evening set	7539 Mar 26 18:11	18°♊07'28		evening set	7540 Mar 10 02:12	2°♊10'15	
inferior conj	7539 Apr 01 02:33	12°♊04'10	3°11'17		7540 Mar 12 06:55	30°♊	
minimum elong	7539 Apr 01 00:57	12°♊09'35	3°11'02	inferior conj	7540 Mar 15 09:42	25°♊55'25	2°48'01
min. Earth dist.	7539 Apr 01 22:46	10°♊55'44	0.67514 AU	minimum elong	7540 Mar 15 07:32	26°♊02'54	2°47'32
morning rise	7539 Apr 06 07:31	5°♊48'04		min. Earth dist.	7540 Mar 15 16:46	25°♊30'50	0.68142 AU
direct	7539 Apr 12 02:06	3°♊13'24		morning rise	7540 Mar 20 12:42	19°♊42'01	
morning max el	7539 Apr 23 17:10	10°♊11'03	24°48'00	direct	7540 Mar 25 17:26	17°♊25'24	
desc. node	7539 Apr 23 14:04	10°♊03'14		morning max el	7540 Apr 05 02:34	23°♊35'44	23°18'38
	7539 May 09 10:06	0°♊		desc. node	7540 Apr 09 11:03	28°♊24'37	
	7539 May 28 07:14	0°♊			7540 Apr 10 18:35	0°♊	
morning set	7539 May 29 16:55	2°♊27'54		morning set	7540 May 01 19:34	0°♊	
max. Earth dist.	7539 Jun 02 07:46	8°♊59'11	1.37123 AU	max. Earth dist.	7540 May 10 00:40	13°♊20'14	
					7540 May 14 03:36	20°♊22'53	1.39336 AU
superior conj	7539 Jun 08 22:54	21°♊33'04	-1°01'41		7540 May 19 13:13	0°♊	
minimum elong	7539 Jun 09 02:37	21°♊51'10	1°01'08				
	7539 Jun 13 05:19	0°♊		superior conj	7540 May 21 18:22	4°♊04'18	-1°31'36
asc. node	7539 Jun 15 11:07	4°♊30'11		minimum elong	7540 May 21 23:41	4°♊28'59	1°31'01
evening rise	7539 Jun 17 10:11	8°♊26'25		evening rise	7540 May 31 05:12	22°♊05'36	
	7539 Jun 29 09:42	0°♊		asc. node	7540 Jun 01 08:10	24°♊15'24	
evening max el	7539 Jul 04 08:04	6°♊01'31	19°25'13		7540 Jun 04 08:49	0°♊	
retrograde	7539 Jul 13 18:49	10°♊40'59		evening max el	7540 Jun 16 09:03	18°♊11'03	18°38'41
evening set	7539 Jul 15 15:52	10°♊30'45		retrograde	7540 Jun 24 08:56	22°♊08'50	
desc. node	7539 Jul 20 13:21	8°♊40'43		evening set	7540 Jun 26 11:02	21°♊53'32	
inferior conj	7539 Jul 24 07:37	6°♊23'46	-1°08'46	inferior conj	7540 Jul 04 07:17	17°♊28'36	0°37'47
minimum elong	7539 Jul 24 04:32	6°♊28'46	1°07'40	minimum elong	7540 Jul 04 08:40	17°♊25'58	0°37'10
min. Earth dist.	7539 Jul 26 20:49	4°♊44'58	0.55739 AU	desc. node	7540 Jul 06 10:24	15°♊51'33	
morning rise	7539 Aug 01 14:35	1°♊47'25		min. Earth dist.	7540 Jul 07 14:11	15°♊00'21	0.57427 AU
direct	7539 Aug 06 11:19	0°♊53'59		morning rise	7540 Jul 12 02:48	12°♊15'07	
morning max el	7539 Aug 20 12:52	7°♊58'51	25°09'15	direct	7540 Jul 17 20:01	10°♊53'35	
	7539 Sep 05 18:28	0°♊		morning max el	7540 Aug 01 04:54	18°♊27'45	26°37'05
asc. node	7539 Sep 11 10:31	10°♊32'18			7540 Aug 10 21:11	0°♊	
morning set	7539 Sep 16 00:33	19°♊58'26		asc. node	7540 Aug 28 07:31	0°♊13'27	
	7539 Sep 20 15:22	0°♊			7540 Aug 28 04:54	0°♊	
				morning set	7540 Aug 30 10:48	4°♊41'11	
superior conj	7539 Sep 22 21:45	4°♊59'02	1°33'33				
minimum elong	7539 Sep 22 20:04	4°♊49'49	1°33'25	superior conj	7540 Sep 06 09:19	19°♊50'37	1°21'12
max. Earth dist.	7539 Sep 24 08:33	8°♊09'32	1.32388 AU	minimum elong	7540 Sep 06 07:08	19°♊38'34	1°20'53
evening rise	7539 Sep 30 01:27	20°♊17'59		max. Earth dist.	7540 Sep 06 17:36	20°♊36'30	1.31829 AU
	7539 Oct 04 22:34	0°♊			7540 Sep 11 00:16	0°♊	
desc. node	7539 Oct 16 12:23	19°♊59'21		evening rise	7540 Sep 13 06:10	4°♊47'51	
	7539 Oct 23 12:27	0°♊			7540 Sep 26 14:49	0°♊	
evening max el	7539 Nov 01 18:17	10°♊32'01	27°27'00	desc. node	7540 Oct 02 09:26	8°♊54'25	
retrograde	7539 Nov 15 12:38	17°♊47'40		evening max el	7540 Oct 13 23:17	22°♊49'01	26°59'46
evening set	7539 Nov 22 15:39	15°♊20'23		retrograde	7540 Oct 27 20:51	29°♊59'34	
min. Earth dist.	7539 Nov 26 07:46	12°♊20'44	0.62643 AU	evening set	7540 Nov 03 20:09	27°♊52'26	
inferior conj	7539 Nov 29 04:06	9°♊37'57	-2°58'36	min. Earth dist.	7540 Nov 07 13:47	25°♊12'40	0.60616 AU
minimum elong	7539 Nov 29 09:38	9°♊24'44	2°56'30	inferior conj	7540 Nov 10 17:36	22°♊33'44	-4°05'00
morning rise	7539 Dec 06 05:36	4°♊29'34		minimum elong	7540 Nov 11 00:35	22°♊19'03	4°02'55
asc. node	7539 Dec 08 09:54	4°♊05'12		morning rise	7540 Nov 18 07:20	17°♊45'49	
direct	7539 Dec 08 13:09	4°♊05'07		direct	7540 Nov 20 12:50	17°♊26'20	
morning max el	7539 Dec 15 06:35	7°♊31'37	17°48'34	asc. node	7540 Nov 24 06:56	18°♊24'13	
	7539 Dec 29 23:20	0°♊		morning max el	7540 Nov 27 20:34	21°♊05'01	18°01'51
morning set	7539 Dec 31 06:23	2°♊17'19			7540 Dec 04 14:21	0°♊	
				morning set	7540 Dec 13 12:45	15°♊51'04	

	7540 Dec 21 05:35	0°♄		superior conj	7541 Dec 06 02:14	16°♄50'30	1°10'12
				minimum elong	7541 Dec 06 05:42	17°♄06'42	1°09'52
superior conj	7540 Dec 23 11:58	4°♄02'45	0°42'15		7541 Dec 13 08:58	0°♄	
minimum elong	7540 Dec 23 15:04	4°♄16'29	0°41'53	max. Earth dist.	7541 Dec 13 10:15	0°♄05'36	1.39995 AU
desc. node	7540 Dec 29 08:33	14°♄10'40		desc. node	7541 Dec 16 05:33	4°♄54'55	
max. Earth dist.	7540 Dec 31 02:49	17°♄07'57	1.42056 AU	evening rise	7541 Dec 17 14:09	7°♄12'17	
evening rise	7541 Jan 05 16:45	26°♄14'00			7542 Jan 01 03:12	0°♄	
	7541 Jan 08 01:49	0°♄		evening max el	7542 Jan 21 10:33	26°♄04'24	23°54'20
	7541 Jan 28 13:46	0°♄			7542 Jan 25 23:26	0°♄	
evening max el	7541 Feb 07 20:06	12°♄20'48	22°34'11	retrograde	7542 Feb 01 10:04	2°♄32'04	
retrograde	7541 Feb 17 16:50	18°♄12'04		evening set	7542 Feb 06 15:13	0°♄21'53	
asc. node	7541 Feb 20 06:07	17°♄38'52		asc. node	7542 Feb 07 03:09	29°♄55'22	
evening set	7541 Feb 22 09:44	16°♄16'23			7542 Feb 07 01:09	30°♄	
inferior conj	7541 Feb 27 18:12	9°♄53'19	2°15'32	min. Earth dist.	7542 Feb 11 09:49	24°♄50'10	0.68160 AU
minimum elong	7541 Feb 27 15:55	10°♄01'15	2°14'53	inferior conj	7542 Feb 12 02:13	23°♄54'26	1°34'38
min. Earth dist.	7541 Feb 27 13:15	10°♄10'32	0.68348 AU	minimum elong	7542 Feb 12 00:17	24°♄01'01	1°34'00
morning rise	7541 Mar 04 21:59	3°♄44'02		morning rise	7542 Feb 17 09:19	17°♄50'54	
direct	7541 Mar 09 12:34	1°♄49'05		direct	7542 Feb 21 10:22	16°♄18'22	
morning max el	7541 Mar 18 15:05	7°♄08'12	21°51'02	morning max el	7542 Mar 01 10:06	20°♄51'36	20°32'24
desc. node	7541 Mar 27 08:01	17°♄31'33			7542 Mar 09 01:09	0°♄	
	7541 Apr 05 05:35	0°♄		desc. node	7542 Mar 14 04:58	7°♄11'04	
morning set	7541 Apr 20 04:52	22°♄55'26			7542 Mar 29 10:38	0°♄	
	7541 Apr 24 13:26	0°♄		morning set	7542 Mar 30 08:39	1°♄25'17	
max. Earth dist.	7541 Apr 26 02:30	2°♄33'27	1.41524 AU	max. Earth dist.	7542 Apr 08 08:48	15°♄39'29	1.43411 AU
superior conj	7541 May 03 19:02	15°♄42'23	-1°56'12	superior conj	7542 Apr 14 20:18	26°♄16'40	-2°10'08
minimum elong	7541 May 04 00:23	16°♄05'55	1°55'52	minimum elong	7542 Apr 14 22:25	26°♄25'31	2°10'07
	7541 May 11 17:29	0°♄			7542 Apr 17 01:34	0°♄	
evening rise	7541 May 14 12:32	5°♄09'02		evening rise	7542 Apr 27 03:41	17°♄25'48	
asc. node	7541 May 19 05:13	13°♄44'33			7542 May 04 09:06	0°♄	
	7541 May 29 20:27	0°♄		asc. node	7542 May 06 02:14	2°♄51'03	
evening max el	7541 May 30 17:42	0°♄55'00	18°12'30	evening max el	7542 May 14 06:14	14°♄02'43	18°05'51
retrograde	7541 Jun 06 17:39	4°♄26'25		retrograde	7542 May 20 17:50	17°♄23'46	
evening set	7541 Jun 09 03:18	4°♄02'12		evening set	7542 May 23 10:49	16°♄48'04	
	7541 Jun 15 08:49	30°♄		inferior conj	7542 May 29 20:31	11°♄42'41	2°48'56
inferior conj	7541 Jun 16 04:32	29°♄16'51	1°57'28	minimum elong	7542 May 29 23:15	11°♄35'43	2°48'16
minimum elong	7541 Jun 16 07:38	29°♄09'59	1°56'27	min. Earth dist.	7542 Jun 01 21:07	8°♄39'40	0.61810 AU
min. Earth dist.	7541 Jun 19 13:43	26°♄18'56	0.59567 AU	morning rise	7542 Jun 05 09:44	5°♄40'16	
morning rise	7541 Jun 23 09:00	23°♄33'37		desc. node	7542 Jun 10 04:25	3°♄29'29	
desc. node	7541 Jun 23 07:25	23°♄35'57		direct	7542 Jun 12 03:33	3°♄17'40	
direct	7541 Jun 29 18:25	21°♄39'32		morning max el	7542 Jun 26 07:42	11°♄18'17	27°55'02
morning max el	7541 Jul 14 03:11	29°♄31'34	27°34'40		7542 Jul 11 00:11	0°♄	
	7541 Jul 14 14:35	0°♄			7542 Jul 28 03:18	0°♄	
	7541 Aug 04 20:02	0°♄		morning set	7542 Jul 29 19:58	3°♄25'35	
morning set	7541 Aug 14 17:55	19°♄12'07		asc. node	7542 Aug 02 01:32	10°♄10'17	
asc. node	7541 Aug 15 04:32	20°♄07'48		max. Earth dist.	7542 Aug 04 11:49	15°♄23'27	1.32078 AU
	7541 Aug 19 18:24	0°♄					
max. Earth dist.	7541 Aug 21 03:55	3°♄04'44	1.31726 AU	superior conj	7542 Aug 06 06:53	19°♄18'23	0°42'09
				minimum elong	7542 Aug 06 05:07	19°♄08'42	0°41'44
superior conj	7541 Aug 21 20:57	4°♄38'57	1°03'55		7542 Aug 11 03:54	0°♄	
minimum elong	7541 Aug 21 18:44	4°♄26'39	1°03'29	evening rise	7542 Aug 13 02:27	4°♄11'26	
evening rise	7541 Aug 28 15:10	19°♄27'43			7542 Aug 26 18:36	0°♄	
	7541 Sep 02 18:11	0°♄		desc. node	7542 Sep 06 03:32	13°♄38'20	
desc. node	7541 Sep 19 06:29	26°♄54'32		evening max el	7542 Sep 07 11:25	14°♄57'55	24°32'40
	7541 Sep 21 19:32	0°♄		retrograde	7542 Sep 21 06:49	21°♄54'23	
evening max el	7541 Sep 25 21:03	4°♄16'48	25°59'22	evening set	7542 Sep 26 11:31	20°♄54'20	
retrograde	7541 Oct 09 19:40	11°♄21'26		min. Earth dist.	7542 Oct 01 22:28	18°♄05'30	0.56649 AU
evening set	7541 Oct 16 04:05	9°♄45'21		inferior conj	7542 Oct 04 13:31	16°♄25'22	-5°30'00
min. Earth dist.	7541 Oct 20 09:53	7°♄10'13	0.58532 AU	minimum elong	7542 Oct 04 15:02	16°♄22'57	5°29'55
inferior conj	7541 Oct 23 13:35	4°♄52'15	-5°00'26	morning rise	7542 Oct 12 20:44	12°♄21'46	
minimum elong	7541 Oct 23 19:47	4°♄40'55	4°59'17	direct	7542 Oct 15 11:31	12°♄03'07	
morning rise	7541 Oct 31 13:46	0°♄26'47		morning max el	7542 Oct 25 01:04	16°♄34'01	19°30'59
direct	7541 Nov 02 21:28	0°♄09'07		asc. node	7542 Oct 29 00:58	21°♄05'50	
morning max el	7541 Nov 11 03:54	4°♄09'07	18°35'27		7542 Nov 03 19:32	0°♄	
asc. node	7541 Nov 11 03:57	4°♄09'15		morning set	7542 Nov 11 09:22	14°♄26'29	
morning set	7541 Nov 27 07:01	29°♄57'44					
	7541 Nov 27 07:29	0°♄		superior conj	7542 Nov 19 08:48	0°♄25'11	1°28'49

minimum elong	7542 Nov 19 11:23	0°♊37'53	1°28'41		7543 Oct 27 02:54	0°♍	
	7542 Nov 19 03:40	0°♊					
max. Earth dist.	7542 Nov 25 16:03	12°♊25'33	1.37843 AU	superior conj	7543 Nov 03 03:03	14°♍32'52	1°39'02
evening rise	7542 Nov 29 09:34	19°♊09'22		minimum elong	7543 Nov 03 04:18	14°♍39'15	1°39'03
desc. node	7542 Dec 03 02:34	25°♊34'04		max. Earth dist.	7543 Nov 08 00:30	24°♍21'19	1.35837 AU
	7542 Dec 05 18:22	0°♋			7543 Nov 10 23:05	0°♊	
	7542 Dec 26 07:43	0°♋		evening rise	7543 Nov 12 00:03	1°♊56'50	
evening max el	7543 Jan 03 23:43	9°♋51'14	25°10'52	desc. node	7543 Nov 19 23:37	16°♊03'01	
retrograde	7543 Jan 15 23:01	16°♋46'39			7543 Nov 28 19:26	0°♋	
evening set	7543 Jan 21 17:10	14°♋23'26		evening max el	7543 Dec 17 12:43	23°♋36'17	26°16'47
asc. node	7543 Jan 25 00:11	10°♋54'55			7543 Dec 26 09:56	0°♋	
min. Earth dist.	7543 Jan 26 04:14	9°♋26'18	0.67590 AU	retrograde	7543 Dec 30 07:03	0°♋49'08	
inferior conj	7543 Jan 27 07:56	7°♋56'06	0°45'58		7544 Jan 02 21:35	30°♌♋	
minimum elong	7543 Jan 27 06:50	7°♋59'41	0°45'36	evening set	7544 Jan 05 13:50	28°♋16'07	
morning rise	7543 Feb 01 20:46	2°♋00'08		min. Earth dist.	7544 Jan 09 18:12	23°♋53'50	0.66642 AU
direct	7543 Feb 05 09:23	0°♋48'39		inferior conj	7544 Jan 11 09:24	21°♋53'55	-0°09'57
morning max el	7543 Feb 12 13:12	4°♋47'15	19°27'19	minimum elong	7544 Jan 11 09:40	21°♋53'07	0°09'45
greatest brilliancy	7543 Feb 25 11:10	21°♋48'52	-0.7m	transit middle	7544 Jan 11 09:40	21°♋53'07	0°09'45
desc. node	7543 Mar 01 01:57	27°♋14'42		transit begin	7544 Jan 11 07:23	22°♋00'08	
	7543 Mar 02 21:29	0°♌		transit end	7544 Jan 11 11:57	21°♋46'07	
morning set	7543 Mar 09 06:38	9°♌47'22		asc. node	7544 Jan 11 21:15	21°♋17'48	
max. Earth dist.	7543 Mar 21 22:20	29°♌31'26	1.44760 AU	morning rise	7544 Jan 17 06:13	16°♋07'43	
	7543 Mar 22 05:34	0°♍		direct	7544 Jan 20 07:56	15°♋14'19	
				morning max el	7544 Jan 26 23:32	18°♋50'51	18°37'56
superior conj	7543 Mar 25 20:46	5°♍46'42	-2°07'17		7544 Feb 04 14:45	0°♋	
minimum elong	7543 Mar 25 16:18	5°♍28'48	2°07'08	desc. node	7544 Feb 15 22:58	17°♋35'31	
evening rise	7543 Apr 08 22:14	28°♍47'37		morning set	7544 Feb 16 22:52	19°♋09'42	
	7543 Apr 09 15:34	0°♎			7544 Feb 23 20:11	0°♌	
asc. node	7543 Apr 22 23:16	21°♎27'38		max. Earth dist.	7544 Mar 03 16:22	13°♌51'03	1.45419 AU
evening max el	7543 Apr 27 19:21	27°♎25'31	18°17'58				
	7543 May 01 02:40	0°♏		superior conj	7544 Mar 04 03:44	14°♌35'36	-1°44'19
retrograde	7543 May 04 04:55	0°♏50'50		minimum elong	7544 Mar 03 18:20	13°♌58'43	1°43'28
evening set	7543 May 07 04:51	0°♏02'12			7544 Mar 13 22:39	0°♍	
	7543 May 07 06:30	30°♌♎		evening rise	7544 Mar 19 17:27	9°♍11'58	
inferior conj	7543 May 13 03:06	24°♎38'20	3°16'36	greatest brilliancy	7544 Mar 27 20:20	22°♍09'02	-0.8m
minimum elong	7543 May 13 04:34	24°♎34'08	3°16'21		7544 Apr 01 21:53	0°♎	
min. Earth dist.	7543 May 15 13:49	21°♎51'57	0.63883 AU	asc. node	7544 Apr 08 20:19	9°♎25'15	
morning rise	7543 May 19 03:11	18°♎25'35		evening max el	7544 Apr 10 06:25	10°♎57'20	18°48'06
direct	7543 May 25 21:22	15°♎44'23		retrograde	7544 Apr 16 22:49	14°♎39'42	
desc. node	7543 May 28 01:26	15°♎59'19		evening set	7544 Apr 20 05:54	13°♎37'19	
morning max el	7543 Jun 08 16:35	23°♎44'47	27°38'07	inferior conj	7544 Apr 25 20:24	7°♎56'45	3°25'36
	7543 Jun 14 06:47	0°♏		minimum elong	7544 Apr 25 20:29	7°♎56'30	3°25'31
	7543 Jul 04 08:33	0°♐		min. Earth dist.	7544 Apr 27 15:46	5°♎42'15	0.65620 AU
morning set	7543 Jul 13 14:35	17°♐14'37		morning rise	7544 May 01 10:29	1°♎39'50	
max. Earth dist.	7543 Jul 18 13:24	27°♐21'27	1.32895 AU		7544 May 03 18:27	30°♌♍	
asc. node	7543 Jul 19 22:32	0°♑16'19		direct	7544 May 07 22:42	28°♍52'13	
	7543 Jul 19 19:27	0°♑			7544 May 12 11:42	0°♎	
				desc. node	7544 May 13 22:28	0°♎46'14	
superior conj	7543 Jul 21 13:13	3°♑42'53	0°16'25	morning max el	7544 May 21 03:08	6°♎40'43	26°49'07
minimum elong	7543 Jul 21 12:25	3°♑38'37	0°16'10		7544 Jun 08 02:20	0°♏	
evening rise	7543 Jul 28 14:05	18°♑52'37		morning set	7544 Jun 25 22:45	0°♐30'57	
	7543 Aug 03 00:29	0°♑			7544 Jun 25 16:15	0°♐	
evening max el	7543 Aug 19 23:04	25°♑12'55	22°53'58	max. Earth dist.	7544 Jun 30 05:10	8°♐51'36	1.34188 AU
desc. node	7543 Aug 24 00:35	28°♑36'45					
	7543 Aug 26 06:55	0°♒		superior conj	7544 Jul 04 13:47	17°♐46'29	-0°12'34
retrograde	7543 Sep 02 05:37	1°♒50'52		minimum elong	7544 Jul 04 14:28	17°♐50'04	0°12'31
evening set	7543 Sep 05 22:00	1°♒21'10		behind sun begin	7544 Jul 04 10:51	17°♐31'14	
	7543 Sep 09 13:38	30°♌♑		behind sun end	7544 Jul 04 18:05	18°♐08'56	
min. Earth dist.	7543 Sep 13 07:19	28°♑01'39	0.55276 AU	asc. node	7544 Jul 05 19:33	20°♐22'06	
inferior conj	7543 Sep 14 18:17	27°♑11'26	-5°15'12		7544 Jul 10 09:02	0°♑	
minimum elong	7543 Sep 14 12:31	27°♑19'43	5°14'28	evening rise	7544 Jul 12 00:09	3°♑25'33	
morning rise	7543 Sep 23 05:09	23°♑22'09			7544 Jul 26 20:59	0°♑	
direct	7543 Sep 26 06:51	23°♑00'11		evening max el	7544 Jul 31 17:01	5°♑38'25	21°19'50
morning max el	7543 Oct 07 09:42	28°♑11'50	20°48'42	desc. node	7544 Aug 09 21:39	11°♑17'40	
	7543 Oct 09 04:43	0°♒		retrograde	7544 Aug 12 19:28	11°♑38'11	
asc. node	7543 Oct 15 21:59	8°♒58'13		evening set	7544 Aug 15 05:23	11°♑24'44	
morning set	7543 Oct 26 16:53	29°♒08'17		inferior conj	7544 Aug 24 11:47	7°♑26'37	-4°05'57

minimum elong	7544 Aug 24 02:23	7° $\mathring{\text{M}}$ 39'50	4°03'23	minimum elong	7545 Aug 04 01:31	17° $\mathring{\text{Q}}$ 49'22	2°14'29
min. Earth dist.	7544 Aug 24 16:29	7° $\mathring{\text{M}}$ 20'01	0.54710 AU	min. Earth dist.	7545 Aug 06 03:49	16° $\mathring{\text{Q}}$ 33'49	0.55104 AU
morning rise	7544 Sep 02 00:10	3° $\mathring{\text{M}}$ 33'49		morning rise	7545 Aug 12 18:25	13° $\mathring{\text{Q}}$ 23'19	
direct	7544 Sep 05 15:32	3° $\mathring{\text{M}}$ 05'13		direct	7545 Aug 17 03:38	12° $\mathring{\text{Q}}$ 41'21	
morning max el	7544 Sep 18 06:33	9° $\mathring{\text{M}}$ 04'18	22°24'59	morning max el	7545 Aug 30 20:10	19° $\mathring{\text{Q}}$ 25'16	24°10'20
asc. node	7544 Oct 01 19:01	27° $\mathring{\text{M}}$ 33'38			7545 Sep 08 17:27	0° $\mathring{\text{M}}$	
	7544 Oct 03 03:21	0° $\mathring{\text{A}}$		asc. node	7545 Sep 18 16:02	16° $\mathring{\text{M}}$ 40'58	
morning set	7544 Oct 10 03:25	13° $\mathring{\text{A}}$ 57'02		morning set	7545 Sep 24 15:07	28° $\mathring{\text{M}}$ 47'18	
					7545 Sep 25 04:45	0° $\mathring{\text{A}}$	
superior conj	7544 Oct 17 05:25	29° $\mathring{\text{A}}$ 03'11	1°41'52	superior conj	7545 Oct 01 13:04	13° $\mathring{\text{A}}$ 47'14	1°38'16
minimum elong	7544 Oct 17 05:19	29° $\mathring{\text{A}}$ 02'40	1°41'55	minimum elong	7545 Oct 01 11:52	13° $\mathring{\text{A}}$ 40'42	1°38'13
	7544 Oct 17 16:08	0° $\mathring{\text{M}}$		max. Earth dist.	7545 Oct 03 16:00	18° $\mathring{\text{A}}$ 22'36	1.32908 AU
max. Earth dist.	7544 Oct 20 16:00	6° $\mathring{\text{M}}$ 15'20	1.34163 AU	evening rise	7545 Oct 08 22:44	29° $\mathring{\text{A}}$ 24'44	
evening rise	7544 Oct 25 05:42	15° $\mathring{\text{M}}$ 25'19			7545 Oct 09 05:43	0° $\mathring{\text{M}}$	
	7544 Nov 02 03:34	0° $\mathring{\text{A}}$		desc. node	7545 Oct 23 17:44	26° $\mathring{\text{M}}$ 07'26	
desc. node	7544 Nov 05 20:40	6° $\mathring{\text{A}}$ 16'24			7545 Oct 26 05:41	0° $\mathring{\text{A}}$	
	7544 Nov 22 10:40	0° $\mathring{\text{B}}$		evening max el	7545 Nov 11 13:35	20° $\mathring{\text{A}}$ 28'24	27°27'43
evening max el	7544 Nov 29 01:40	7° $\mathring{\text{B}}$ 12'08	27°04'45	retrograde	7545 Nov 25 05:30	27° $\mathring{\text{A}}$ 46'54	
retrograde	7544 Dec 12 09:27	14° $\mathring{\text{B}}$ 32'01		evening set	7545 Dec 02 06:32	25° $\mathring{\text{A}}$ 13'29	
evening set	7544 Dec 19 03:09	11° $\mathring{\text{B}}$ 54'48		min. Earth dist.	7545 Dec 06 00:20	21° $\mathring{\text{A}}$ 57'27	0.63700 AU
min. Earth dist.	7544 Dec 23 01:36	8° $\mathring{\text{B}}$ 06'48	0.65335 AU	inferior conj	7545 Dec 08 14:33	19° $\mathring{\text{A}}$ 18'48	-2°19'13
inferior conj	7544 Dec 25 04:28	5° $\mathring{\text{B}}$ 43'23	-1°12'16	minimum elong	7545 Dec 08 18:52	19° $\mathring{\text{A}}$ 07'49	2°17'24
minimum elong	7544 Dec 25 06:35	5° $\mathring{\text{B}}$ 37'24	1°11'16	morning rise	7545 Dec 15 08:56	13° $\mathring{\text{A}}$ 59'53	
asc. node	7544 Dec 28 18:19	2° $\mathring{\text{B}}$ 01'09		asc. node	7545 Dec 15 15:23	13° $\mathring{\text{A}}$ 53'55	
morning rise	7544 Dec 31 11:16	0° $\mathring{\text{B}}$ 09'20		direct	7545 Dec 17 19:00	13° $\mathring{\text{A}}$ 31'09	
	7544 Dec 31 19:35	30° $\mathring{\text{R}}$ $\mathring{\text{A}}$		morning max el	7545 Dec 24 07:59	16° $\mathring{\text{A}}$ 55'05	17°49'27
direct	7545 Jan 03 03:58	29° $\mathring{\text{A}}$ 30'16			7546 Jan 02 17:15	0° $\mathring{\text{B}}$	
	7545 Jan 05 12:49	0° $\mathring{\text{B}}$		morning set	7546 Jan 09 21:03	12° $\mathring{\text{B}}$ 10'04	
morning max el	7545 Jan 09 14:44	2° $\mathring{\text{B}}$ 55'50	18°05'06	desc. node	7546 Jan 19 16:57	28° $\mathring{\text{B}}$ 49'07	
morning set	7545 Jan 27 20:21	0° $\mathring{\text{A}}$ 00'04			7546 Jan 20 10:05	0° $\mathring{\text{A}}$	
	7545 Jan 27 20:21	0° $\mathring{\text{A}}$		superior conj	7546 Jan 22 11:29	3° $\mathring{\text{A}}$ 22'59	-0°19'55
desc. node	7545 Feb 01 19:57	8° $\mathring{\text{A}}$ 08'18		minimum elong	7546 Jan 22 09:18	3° $\mathring{\text{A}}$ 14'02	0°19'30
superior conj	7545 Feb 11 10:40	23° $\mathring{\text{A}}$ 31'51	-1°05'08	max. Earth dist.	7546 Jan 28 06:10	12° $\mathring{\text{A}}$ 42'03	1.44537 AU
minimum elong	7545 Feb 11 03:04	23° $\mathring{\text{A}}$ 01'48	1°04'06	evening rise	7546 Feb 07 02:51	28° $\mathring{\text{A}}$ 06'09	
max. Earth dist.	7545 Feb 14 11:45	28° $\mathring{\text{A}}$ 19'38	1.45338 AU		7546 Feb 08 08:33	0° $\mathring{\text{A}}$	
	7545 Feb 15 13:21	0° $\mathring{\text{H}}$			7546 Feb 28 19:49	0° $\mathring{\text{Y}}$	
evening rise	7545 Feb 27 15:32	18° $\mathring{\text{H}}$ 48'18		evening max el	7546 Mar 07 15:08	8° $\mathring{\text{Y}}$ 11'03	20°36'29
	7545 Mar 06 21:41	0° $\mathring{\text{Y}}$		asc. node	7546 Mar 13 14:28	12° $\mathring{\text{Y}}$ 33'00	
greatest brilliancy	7545 Mar 12 18:07	8° $\mathring{\text{Y}}$ 52'48	-0.7m	retrograde	7546 Mar 15 18:42	12° $\mathring{\text{Y}}$ 57'27	
evening max el	7545 Mar 24 13:23	24° $\mathring{\text{Y}}$ 33'05	19°35'01	evening set	7546 Mar 19 18:46	11° $\mathring{\text{Y}}$ 25'37	
asc. node	7545 Mar 26 17:23	26° $\mathring{\text{Y}}$ 31'37		inferior conj	7546 Mar 25 02:32	5° $\mathring{\text{Y}}$ 17'21	3°02'37
retrograde	7545 Mar 31 20:14	28° $\mathring{\text{Y}}$ 43'21		minimum elong	7546 Mar 25 00:39	5° $\mathring{\text{Y}}$ 23'49	3°02'16
evening set	7545 Apr 04 11:13	27° $\mathring{\text{Y}}$ 26'32		min. Earth dist.	7546 Mar 25 17:06	4° $\mathring{\text{Y}}$ 27'22	0.67836 AU
inferior conj	7545 Apr 09 21:06	21° $\mathring{\text{Y}}$ 31'06	3°19'59		7546 Mar 29 06:45	30° $\mathring{\text{R}}$ $\mathring{\text{H}}$	
minimum elong	7545 Apr 09 20:01	21° $\mathring{\text{Y}}$ 34'42	3°19'51	morning rise	7546 Mar 30 06:19	29° $\mathring{\text{H}}$ 02'13	
min. Earth dist.	7545 Apr 11 01:31	19° $\mathring{\text{Y}}$ 57'12	0.66948 AU	direct	7546 Apr 04 19:15	26° $\mathring{\text{H}}$ 34'15	
morning rise	7545 Apr 15 04:28	15° $\mathring{\text{Y}}$ 13'55			7546 Apr 12 09:29	0° $\mathring{\text{Y}}$	
direct	7545 Apr 21 06:22	12° $\mathring{\text{Y}}$ 31'31		morning max el	7546 Apr 15 21:45	3° $\mathring{\text{Y}}$ 12'40	24°10'18
desc. node	7545 Apr 30 19:29	17° $\mathring{\text{Y}}$ 17'27		desc. node	7546 Apr 17 16:28	5° $\mathring{\text{Y}}$ 05'04	
morning max el	7545 May 03 12:56	19° $\mathring{\text{Y}}$ 52'30	25°36'27		7546 May 06 08:33	0° $\mathring{\text{B}}$	
	7545 May 12 04:29	0° $\mathring{\text{B}}$		morning set	7546 May 21 13:58	24° $\mathring{\text{B}}$ 34'42	
	7545 Jun 01 05:22	0° $\mathring{\text{II}}$			7546 May 24 16:04	0° $\mathring{\text{II}}$	
morning set	7545 Jun 08 16:16	13° $\mathring{\text{II}}$ 02'07		max. Earth dist.	7546 May 25 06:28	1° $\mathring{\text{II}}$ 04'18	1.38054 AU
max. Earth dist.	7545 Jun 12 09:34	19° $\mathring{\text{II}}$ 56'59	1.35943 AU	superior conj	7546 Jun 01 09:59	14° $\mathring{\text{II}}$ 18'39	-1°14'44
	7545 Jun 17 13:35	0° $\mathring{\text{E}}$		minimum elong	7546 Jun 01 14:28	14° $\mathring{\text{II}}$ 40'06	1°14'08
superior conj	7545 Jun 18 05:48	1° $\mathring{\text{E}}$ 21'00	-0°43'36		7546 Jun 09 10:30	0° $\mathring{\text{E}}$	
minimum elong	7545 Jun 18 08:23	1° $\mathring{\text{E}}$ 33'52	0°43'13	asc. node	7546 Jun 09 13:35	0° $\mathring{\text{E}}$ 15'14	
asc. node	7545 Jun 22 16:34	10° $\mathring{\text{E}}$ 22'57		evening rise	7546 Jun 10 06:27	1° $\mathring{\text{E}}$ 38'29	
evening rise	7545 Jun 26 06:26	17° $\mathring{\text{E}}$ 42'56		evening max el	7546 Jun 26 18:21	28° $\mathring{\text{E}}$ 27'14	19°02'51
	7545 Jul 02 12:35	0° $\mathring{\text{Q}}$			7546 Jun 28 12:03	0° $\mathring{\text{Q}}$	
evening max el	7545 Jul 13 23:21	16° $\mathring{\text{Q}}$ 40'41	20°01'21	retrograde	7546 Jul 05 12:46	2° $\mathring{\text{Q}}$ 46'43	
retrograde	7545 Jul 24 09:38	21° $\mathring{\text{Q}}$ 48'42		evening set	7546 Jul 07 11:35	2° $\mathring{\text{Q}}$ 34'45	
evening set	7545 Jul 26 06:59	21° $\mathring{\text{Q}}$ 39'20			7546 Jul 13 07:43	30° $\mathring{\text{R}}$ $\mathring{\text{E}}$	
desc. node	7545 Jul 27 18:43	21° $\mathring{\text{Q}}$ 19'29		desc. node	7546 Jul 14 15:45	29° $\mathring{\text{E}}$ 07'53	
inferior conj	7545 Aug 04 07:49	17° $\mathring{\text{Q}}$ 39'54	-2°16'44				

inferior conj	7546 Jul 15 19:20	28°☿20'52	-0°20'52	minimum elong	7547 Jun 27 06:48	9°☿39'41	1°14'14
minimum elong	7546 Jul 15 18:27	28°☿22'24	0°20'37	min. Earth dist.	7547 Jun 30 13:43	7°☿01'15	0.58306 AU
min. Earth dist.	7546 Jul 18 18:15	26°☿19'16	0.56391 AU	desc. node	7547 Jul 01 12:46	6°☿18'14	
morning rise	7546 Jul 23 22:09	23°☿28'44		morning rise	7547 Jul 04 17:44	4°☿17'27	
direct	7546 Jul 29 04:07	22°☿24'08		direct	7547 Jul 10 18:35	2°☿42'29	
morning max el	7546 Aug 12 09:27	29°☿42'23	25°49'27	morning max el	7547 Jul 25 03:59	10°☿24'35	27°05'56
	7546 Aug 12 16:44	0°♊			7547 Aug 09 06:24	0°♊	
	7546 Sep 02 08:56	0°♊		asc. node	7547 Aug 23 09:59	25°♊59'37	
asc. node	7546 Sep 05 13:01	6°♊11'50		morning set	7547 Aug 24 11:31	28°♊13'18	
morning set	7546 Sep 09 02:21	13°♊34'17			7547 Aug 25 07:38	0°♊	
superior conj	7546 Sep 15 23:44	28°♊37'53	1°28'56	superior conj	7547 Aug 31 11:34	13°♊29'11	1°14'27
minimum elong	7546 Sep 15 21:48	28°♊27'10	1°28'44	minimum elong	7547 Aug 31 09:19	13°♊16'41	1°14'05
	7546 Sep 16 14:38	0°♋		max. Earth dist.	7547 Aug 31 09:09	13°♊15'50	1.31736 AU
max. Earth dist.	7546 Sep 16 22:51	0°♋45'14	1.32099 AU	evening rise	7547 Sep 07 06:50	28°♊21'36	
evening rise	7546 Sep 22 23:59	13°♋46'01			7547 Sep 08 01:29	0°♋	
	7546 Oct 01 07:26	0°♌			7547 Sep 24 16:30	0°♌	
desc. node	7546 Oct 10 14:47	15°♌26'31		desc. node	7547 Sep 27 11:49	4°♌00'52	
	7546 Oct 21 18:51	0°♍		evening max el	7547 Oct 07 00:17	15°♌08'27	26°37'52
evening max el	7546 Oct 24 22:06	3°♍11'20	27°19'43	retrograde	7547 Oct 20 22:06	22°♌15'54	
retrograde	7546 Nov 07 18:01	10°♍24'09		evening set	7547 Oct 27 16:54	20°♌20'43	
evening set	7546 Nov 14 20:33	8°♍04'25		min. Earth dist.	7547 Oct 31 14:00	17°♌45'19	0.59730 AU
min. Earth dist.	7546 Nov 18 12:36	5°♍14'30	0.61796 AU	inferior conj	7547 Nov 03 19:03	15°♌13'15	-4°30'33
inferior conj	7546 Nov 21 12:34	2°♍31'49	-3°27'27	minimum elong	7547 Nov 04 02:05	14°♌59'19	4°28'46
minimum elong	7546 Nov 21 18:53	2°♍17'31	3°25'15	morning rise	7547 Nov 11 13:34	10°♌34'46	
	7546 Nov 24 11:19	30°♎		direct	7547 Nov 13 19:37	10°♌16'18	
morning rise	7546 Nov 28 19:19	27°♎31'26		asc. node	7547 Nov 19 09:26	12°♌16'13	
direct	7546 Dec 01 01:36	27°♎09'24		morning max el	7547 Nov 21 11:40	14°♌02'26	18°13'35
asc. node	7546 Dec 02 12:26	27°♎18'46			7547 Dec 02 08:30	0°♏	
	7546 Dec 07 06:59	0°♏		morning set	7547 Dec 07 06:21	9°♏08'12	
morning max el	7546 Dec 08 00:04	0°♏40'07	17°51'50				
morning set	7546 Dec 23 18:22	25°♏18'38		superior conj	7547 Dec 16 16:31	26°♏42'39	0°55'16
	7546 Dec 26 08:47	0°♐		minimum elong	7547 Dec 16 19:59	26°♏58'23	0°54'53
					7547 Dec 18 12:25	0°♐	
superior conj	7547 Jan 03 13:54	14°♐27'57	0°21'51	desc. node	7547 Dec 24 10:57	10°♐19'26	
minimum elong	7547 Jan 03 15:49	14°♐36'14	0°21'39	max. Earth dist.	7547 Dec 24 07:40	10°♐05'33	1.41210 AU
desc. node	7547 Jan 06 13:56	19°♐33'53		evening rise	7547 Dec 29 03:30	18°♐06'38	
max. Earth dist.	7547 Jan 10 21:25	26°♐42'25	1.43106 AU		7548 Jan 05 16:05	0°♑	
	7547 Jan 12 22:09	0°♑			7548 Jan 27 04:13	0°♑	
evening rise	7547 Jan 17 18:39	7°♑42'29		evening max el	7548 Feb 01 03:22	5°♑30'41	23°08'11
	7547 Feb 01 14:23	0°♒		retrograde	7548 Feb 11 11:29	11°♑38'12	
evening max el	7547 Feb 18 11:27	21°♒49'54	21°49'08	asc. node	7548 Feb 15 08:36	10°♑22'59	
retrograde	7547 Feb 27 16:16	27°♒17'02		evening set	7548 Feb 16 09:36	9°♑35'56	
asc. node	7547 Feb 28 11:32	27°♒13'42		inferior conj	7548 Feb 21 18:58	3°♑10'25	1°59'10
evening set	7547 Mar 04 02:45	25°♒29'52		minimum elong	7548 Feb 21 16:46	3°♑18'00	1°58'30
inferior conj	7547 Mar 09 10:28	19°♒11'19	2°35'18	min. Earth dist.	7548 Feb 21 09:00	3°♑44'47	0.68319 AU
minimum elong	7547 Mar 09 08:12	19°♒19'11	2°34'44		7548 Feb 24 04:12	30°♒	
min. Earth dist.	7547 Mar 09 12:19	19°♒04'53	0.68286 AU	morning rise	7548 Feb 26 23:53	27°♒03'37	
morning rise	7547 Mar 14 13:30	12°♒59'43		direct	7548 Mar 02 08:33	25°♒18'27	
direct	7547 Mar 19 12:17	10°♒52'01			7548 Mar 10 16:14	0°♒	
morning max el	7547 Mar 29 07:57	16°♒39'44	22°40'43	morning max el	7548 Mar 10 23:01	0°♒16'46	21°16'12
desc. node	7547 Apr 04 13:26	23°♒47'15		desc. node	7548 Mar 21 10:24	13°♒08'59	
	7547 Apr 09 07:14	0°♓			7548 Apr 02 01:18	0°♓	
	7547 Apr 29 09:51	0°♓		morning set	7548 Apr 11 02:54	13°♓57'45	
morning set	7547 May 02 10:16	4°♓54'21		max. Earth dist.	7548 Apr 18 05:25	25°♓22'45	1.42376 AU
max. Earth dist.	7547 May 07 03:17	12°♓47'22	1.40292 AU		7548 Apr 21 00:28	0°♓	
superior conj	7547 May 14 22:03	26°♓28'51	-1°42'58	superior conj	7548 Apr 25 13:11	7°♓40'04	-2°03'48
minimum elong	7547 May 15 03:41	26°♓54'20	1°42'26	minimum elong	7548 Apr 25 17:39	7°♓59'17	2°03'36
	7547 May 16 20:19	0°♔		evening rise	7548 May 06 22:00	27°♓48'43	
evening rise	7547 May 24 20:59	15°♔03'50			7548 May 08 03:03	0°♔	
asc. node	7547 May 27 10:37	19°♔54'26		asc. node	7548 May 13 07:39	9°♔14'46	
	7547 Jun 02 01:22	0°♕		evening max el	7548 May 23 09:43	23°♔47'25	18°07'19
evening max el	7547 Jun 09 23:04	10°♕52'45	18°25'04	retrograde	7548 May 30 03:16	27°♔13'01	
retrograde	7547 Jun 17 11:12	14°♕37'22		evening set	7548 Jun 01 15:57	26°♔44'16	
evening set	7547 Jun 19 16:33	14°♕18'34		inferior conj	7548 Jun 08 10:04	21°♔50'04	2°22'34
inferior conj	7547 Jun 27 04:21	9°♕44'38	1°15'10	minimum elong	7548 Jun 08 13:12	21°♔42'42	2°21'38



min. Earth dist.	7548 Jun 11 16:29	18° $\Pi$ 47'00	0.60518 AU	min. Earth dist.	7549 May 25 04:02	1° $\Pi$ 31'25	0.62716 AU
morning rise	7548 Jun 15 07:52	15° $\Pi$ 57'07			7549 May 26 17:26	30° $\mathbb{R}$ $\mathcal{B}$	
desc. node	7548 Jun 17 09:48	14° $\Pi$ 49'28		morning rise	7549 May 28 16:05	28° $\mathcal{B}$ 22'06	
direct	7548 Jun 21 21:37	13° $\Pi$ 50'11		direct	7549 Jun 04 10:57	25° $\mathcal{B}$ 49'52	
morning max el	7548 Jul 06 05:20	21° $\Pi$ 47'22	27°48'09	desc. node	7549 Jun 04 06:49	25° $\mathcal{B}$ 49'58	
	7548 Jul 13 09:42	0° $\mathcal{E}$			7549 Jun 14 04:21	0° $\Pi$	
	7548 Aug 01 07:35	0° $\mathcal{Q}$		morning max el	7549 Jun 18 12:07	3° $\Pi$ 52'38	27°52'10
morning set	7548 Aug 07 16:46	12° $\mathcal{Q}$ 37'59			7549 Jul 07 23:54	0° $\mathcal{E}$	
asc. node	7548 Aug 09 06:58	15° $\mathcal{Q}$ 58'05		morning set	7549 Jul 22 16:00	26° $\mathcal{E}$ 42'20	
max. Earth dist.	7548 Aug 13 19:01	25° $\mathcal{Q}$ 42'03	1.31819 AU		7549 Jul 24 06:44	0° $\mathcal{Q}$	
				asc. node	7549 Jul 27 03:59	6° $\mathcal{Q}$ 02'47	
superior conj	7548 Aug 14 22:42	28° $\mathcal{Q}$ 14'29	0°55'13	max. Earth dist.	7549 Jul 28 00:33	7° $\mathcal{Q}$ 52'35	1.32364 AU
minimum elong	7548 Aug 14 20:36	28° $\mathcal{Q}$ 02'57	0°54'47				
	7548 Aug 15 17:48	0° $\mathbb{P}$		superior conj	7549 Jul 30 07:22	12° $\mathcal{Q}$ 48'35	0°31'42
evening rise	7548 Aug 21 17:02	13° $\mathbb{P}$ 03'48		minimum elong	7549 Jul 30 05:57	12° $\mathcal{Q}$ 40'52	0°31'20
	7548 Aug 30 04:17	0° $\mathcal{L}$		evening rise	7549 Aug 06 04:41	27° $\mathcal{Q}$ 47'04	
desc. node	7548 Sep 13 08:52	21° $\mathcal{L}$ 31'45			7549 Aug 07 05:43	0° $\mathbb{P}$	
evening max el	7548 Sep 17 18:24	26° $\mathcal{L}$ 14'10	25°24'53		7549 Aug 24 10:04	0° $\mathcal{L}$	
	7548 Sep 22 08:42	0° $\mathbb{M}$		evening max el	7549 Aug 30 06:40	6° $\mathcal{L}$ 40'25	23°51'07
retrograde	7548 Oct 01 16:24	3° $\mathbb{M}$ 16'40		desc. node	7549 Aug 31 05:56	7° $\mathcal{L}$ 34'48	
evening set	7548 Oct 07 14:42	1° $\mathbb{M}$ 55'28		retrograde	7549 Sep 12 22:42	13° $\mathcal{L}$ 31'22	
	7548 Oct 11 03:39	30° $\mathbb{R}$ $\mathcal{L}$		evening set	7549 Sep 17 12:01	12° $\mathcal{L}$ 45'49	
min. Earth dist.	7548 Oct 12 06:17	29° $\mathcal{L}$ 16'55	0.57692 AU	min. Earth dist.	7549 Sep 23 17:06	9° $\mathcal{L}$ 45'25	0.55984 AU
inferior conj	7548 Oct 15 06:38	27° $\mathcal{L}$ 12'50	-5°17'11	inferior conj	7549 Sep 25 21:58	8° $\mathcal{L}$ 25'22	-5°30'10
minimum elong	7548 Oct 15 11:22	27° $\mathcal{L}$ 04'41	5°16'35	minimum elong	7549 Sep 25 20:26	8° $\mathcal{L}$ 27'43	5°30'06
morning rise	7548 Oct 23 10:22	22° $\mathcal{L}$ 57'27		morning rise	7549 Oct 04 07:04	4° $\mathcal{L}$ 29'09	
direct	7548 Oct 25 20:25	22° $\mathcal{L}$ 39'47		direct	7549 Oct 07 01:52	4° $\mathcal{L}$ 09'31	
morning max el	7548 Nov 03 15:09	26° $\mathcal{L}$ 51'24	18°56'22	morning max el	7549 Oct 17 07:13	8° $\mathcal{L}$ 57'09	20°01'22
asc. node	7548 Nov 05 06:26	28° $\mathcal{L}$ 33'32		asc. node	7549 Oct 23 03:27	15° $\mathcal{L}$ 55'34	
	7548 Nov 06 11:40	0° $\mathbb{M}$			7549 Oct 31 08:49	0° $\mathbb{M}$	
morning set	7548 Nov 20 04:26	23° $\mathbb{M}$ 25'07		morning set	7549 Nov 04 09:15	7° $\mathbb{M}$ 59'55	
	7548 Nov 23 12:29	0° $\mathcal{Z}$					
superior conj	7548 Nov 28 14:21	9° $\mathcal{Z}$ 52'20	1°19'11	superior conj	7549 Nov 12 02:22	23° $\mathbb{M}$ 42'19	1°34'07
minimum elong	7548 Nov 28 17:33	10° $\mathcal{Z}$ 07'35	1°18'56	minimum elong	7549 Nov 12 04:24	23° $\mathbb{M}$ 52'32	1°34'03
max. Earth dist.	7548 Dec 05 13:34	22° $\mathcal{Z}$ 44'35	1.39073 AU		7549 Nov 15 06:55	0° $\mathcal{Z}$	
evening rise	7548 Dec 09 10:24	29° $\mathcal{Z}$ 30'07		max. Earth dist.	7549 Nov 17 19:26	4° $\mathcal{Z}$ 49'49	1.36959 AU
	7548 Dec 09 17:24	0° $\mathcal{Z}$		evening rise	7549 Nov 21 14:23	11° $\mathcal{Z}$ 49'56	
desc. node	7548 Dec 10 07:58	1° $\mathcal{Z}$ 02'00		desc. node	7549 Nov 27 05:00	21° $\mathcal{Z}$ 37'23	
	7548 Dec 29 01:45	0° $\approx$			7549 Dec 02 07:54	0° $\mathcal{Z}$	
evening max el	7549 Jan 13 16:52	19° $\approx$ 15'11	24°27'42	evening max el	7549 Dec 27 05:53	3° $\approx$ 02'04	25°40'45
retrograde	7549 Jan 25 03:12	25° $\approx$ 56'41		retrograde	7550 Jan 08 14:16	10° $\approx$ 06'43	
evening set	7549 Jan 30 13:49	23° $\approx$ 40'32		evening set	7550 Jan 14 13:45	7° $\approx$ 39'02	
asc. node	7549 Feb 01 05:39	22° $\approx$ 03'40		min. Earth dist.	7550 Jan 18 21:55	2° $\approx$ 56'26	0.67225 AU
min. Earth dist.	7549 Feb 04 04:59	18° $\approx$ 23'28	0.67958 AU	asc. node	7550 Jan 19 02:43	2° $\approx$ 41'18	
inferior conj	7549 Feb 05 02:14	17° $\approx$ 12'16	1°14'56	inferior conj	7550 Jan 20 06:25	1° $\approx$ 13'02	0°23'06
minimum elong	7549 Feb 05 00:36	17° $\approx$ 17'47	1°14'22	minimum elong	7550 Jan 20 05:50	1° $\approx$ 14'54	0°22'56
morning rise	7549 Feb 10 11:30	11° $\approx$ 11'43			7550 Jan 21 05:35	30° $\mathbb{R}$ $\mathcal{Z}$	
direct	7549 Feb 14 06:59	9° $\approx$ 48'37		morning rise	7550 Jan 25 22:22	25° $\mathcal{Z}$ 20'41	
morning max el	7549 Feb 21 21:33	14° $\approx$ 06'02	20°02'54	direct	7550 Jan 29 06:04	24° $\mathcal{Z}$ 17'19	
	7549 Mar 06 06:07	0° $\mathcal{H}$		morning max el	7550 Feb 05 03:51	28° $\mathcal{Z}$ 05'26	19°04'15
desc. node	7549 Mar 08 07:23	2° $\mathcal{H}$ 59'48			7550 Feb 06 22:46	0° $\approx$	
morning set	7549 Mar 21 01:11	22° $\mathcal{H}$ 15'34		greatest brilliancy	7550 Feb 18 23:17	16° $\approx$ 44'04	-0.8m
	7549 Mar 26 00:45	0° $\mathcal{Y}$		desc. node	7550 Feb 23 04:23	23° $\approx$ 11'27	
max. Earth dist.	7549 Mar 31 14:35	8° $\mathcal{Y}$ 48'42	1.44051 AU		7550 Feb 27 13:57	0° $\mathcal{H}$	
				morning set	7550 Feb 28 04:22	0° $\mathcal{H}$ 55'58	
superior conj	7549 Apr 06 03:43	17° $\mathcal{Y}$ 46'09	-2°11'18	max. Earth dist.	7550 Mar 14 05:58	22° $\mathcal{H}$ 53'04	1.45128 AU
minimum elong	7549 Apr 06 03:18	17° $\mathcal{Y}$ 44'26	2°11'19				
	7549 Apr 13 12:18	0° $\mathcal{B}$		superior conj	7550 Mar 16 19:13	26° $\mathcal{H}$ 54'25	-1°59'59
evening rise	7549 Apr 19 04:58	9° $\mathcal{B}$ 43'15		minimum elong	7550 Mar 16 11:59	26° $\mathcal{H}$ 25'53	1°59'33
asc. node	7549 Apr 30 04:42	28° $\mathcal{B}$ 09'58			7550 Mar 18 18:06	0° $\mathcal{Y}$	
	7549 May 01 09:40	0° $\Pi$		evening rise	7550 Mar 31 13:38	20° $\mathcal{Y}$ 39'48	
evening max el	7549 May 06 22:52	7° $\Pi$ 02'44	18°08'48		7550 Apr 06 06:24	0° $\mathcal{B}$	
retrograde	7549 May 13 08:36	10° $\Pi$ 24'07		asc. node	7550 Apr 17 01:46	16° $\mathcal{B}$ 31'20	
evening set	7549 May 16 04:27	9° $\Pi$ 43'14		evening max el	7550 Apr 20 11:28	20° $\mathcal{B}$ 30'11	18°28'43
inferior conj	7549 May 22 08:49	4° $\Pi$ 30'03	3°03'14	retrograde	7550 Apr 26 22:52	24° $\mathcal{B}$ 01'01	
minimum elong	7549 May 22 11:04	4° $\Pi$ 24'01	3°02'46	evening set	7550 Apr 30 01:50	23° $\mathcal{B}$ 06'38	

inferior conj	7550 May 05 20:22	17° $\text{♄}$ 35'43	3°22'22	evening set	7551 Apr 14 04:58	6° $\text{♄}$ 48'16	
minimum elong	7550 May 05 21:15	17° $\text{♄}$ 33'08	3°22'14	inferior conj	7551 Apr 19 17:09	1° $\text{♄}$ 01'09	3°24'45
min. Earth dist.	7550 May 08 00:42	15° $\text{♄}$ 01'17	0.64673 AU	minimum elong	7551 Apr 19 16:42	1° $\text{♄}$ 02'36	3°24'41
morning rise	7550 May 11 15:50	11° $\text{♄}$ 20'48			7551 Apr 20 12:13	30° $\text{♄}$	
direct	7550 May 18 08:19	8° $\text{♄}$ 35'04		min. Earth dist.	7551 Apr 21 06:00	29° $\text{♄}$ 03'27	0.66248 AU
desc. node	7550 May 22 03:51	9° $\text{♄}$ 21'24		morning rise	7551 Apr 25 04:01	24° $\text{♄}$ 44'01	
morning max el	7550 May 31 21:46	16° $\text{♄}$ 31'57	27°20'39	direct	7551 May 01 12:20	21° $\text{♄}$ 57'29	
	7550 Jun 12 00:59	0° $\text{♄}$		desc. node	7551 May 09 00:53	24° $\text{♄}$ 56'24	
	7550 Jun 30 19:24	0° $\text{♄}$		morning max el	7551 May 14 08:01	29° $\text{♄}$ 35'14	26°20'28
morning set	7550 Jul 06 06:34	10° $\text{♄}$ 18'17			7551 May 14 17:43	0° $\text{♄}$	
max. Earth dist.	7550 Jul 10 22:00	19° $\text{♄}$ 37'29	1.33383 AU		7551 Jun 05 22:14	0° $\text{♄}$	
				morning set	7551 Jun 19 09:00	23° $\text{♄}$ 16'16	
superior conj	7550 Jul 14 11:32	27° $\text{♄}$ 05'01	0°04'29		7551 Jun 22 21:33	0° $\text{♄}$	
minimum elong	7550 Jul 14 11:19	27° $\text{♄}$ 03'49	0°04'21	max. Earth dist.	7551 Jun 23 08:57	0° $\text{♄}$ 55'36	1.34885 AU
behind sun begin	7550 Jul 14 05:59	26° $\text{♄}$ 35'35					
behind sun end	7550 Jul 14 16:39	27° $\text{♄}$ 32'07		superior conj	7551 Jun 28 08:49	10° $\text{♄}$ 56'59	-0°25'34
asc. node	7550 Jul 14 01:00	26° $\text{♄}$ 09'12		minimum elong	7551 Jun 28 10:16	11° $\text{♄}$ 04'26	0°25'23
	7550 Jul 15 20:25	0° $\text{♄}$		asc. node	7551 Jun 30 22:01	16° $\text{♄}$ 13'17	
evening rise	7550 Jul 21 15:52	12° $\text{♄}$ 25'18		evening rise	7551 Jul 06 00:36	26° $\text{♄}$ 52'20	
	7550 Jul 30 14:35	0° $\text{♄}$			7551 Jul 07 13:05	0° $\text{♄}$	
evening max el	7550 Aug 11 20:09	16° $\text{♄}$ 56'30	22°12'40	evening max el	7551 Jul 24 18:54	27° $\text{♄}$ 35'02	20°44'08
desc. node	7550 Aug 18 02:59	21° $\text{♄}$ 39'03			7551 Jul 27 13:37	0° $\text{♄}$	
retrograde	7550 Aug 24 16:35	23° $\text{♄}$ 19'54		retrograde	7551 Aug 05 04:43	3° $\text{♄}$ 13'24	
evening set	7550 Aug 27 18:16	22° $\text{♄}$ 59'03		desc. node	7551 Aug 05 00:03	3° $\text{♄}$ 13'18	
min. Earth dist.	7550 Sep 05 01:55	19° $\text{♄}$ 22'18	0.54925 AU	evening set	7551 Aug 07 07:19	3° $\text{♄}$ 02'38	
inferior conj	7550 Sep 05 20:37	18° $\text{♄}$ 56'00	-4°52'19		7551 Aug 14 22:48	30° $\text{♄}$	
minimum elong	7550 Sep 05 12:28	19° $\text{♄}$ 07'28	4°50'45	inferior conj	7551 Aug 16 13:14	29° $\text{♄}$ 05'42	-3°22'41
morning rise	7550 Sep 14 08:18	15° $\text{♄}$ 07'31		minimum elong	7551 Aug 16 04:28	29° $\text{♄}$ 18'12	3°19'54
direct	7550 Sep 17 15:39	14° $\text{♄}$ 43'05		min. Earth dist.	7551 Aug 17 11:24	28° $\text{♄}$ 34'03	0.54757 AU
morning max el	7550 Sep 29 10:25	20° $\text{♄}$ 14'50	21°27'42	morning rise	7551 Aug 25 01:30	25° $\text{♄}$ 05'31	
	7550 Oct 07 09:54	0° $\text{♄}$		direct	7551 Aug 29 00:06	24° $\text{♄}$ 32'15	
asc. node	7550 Oct 10 00:28	4° $\text{♄}$ 08'11			7551 Sep 10 04:53	0° $\text{♄}$	
morning set	7550 Oct 19 18:20	22° $\text{♄}$ 45'58		morning max el	7551 Sep 11 03:15	0° $\text{♄}$ 50'33	23°09'37
	7550 Oct 23 04:54	0° $\text{♄}$		asc. node	7551 Sep 26 21:29	22° $\text{♄}$ 58'30	
					7551 Sep 30 13:06	0° $\text{♄}$	
superior conj	7550 Oct 27 00:28	8° $\text{♄}$ 01'08	1°41'04	morning set	7551 Oct 04 05:35	7° $\text{♄}$ 36'26	
minimum elong	7550 Oct 27 01:07	8° $\text{♄}$ 04'34	1°41'07				
max. Earth dist.	7550 Oct 31 06:45	16° $\text{♄}$ 43'54	1.35083 AU	superior conj	7551 Oct 11 05:22	22° $\text{♄}$ 38'21	1°41'05
evening rise	7550 Nov 04 11:53	24° $\text{♄}$ 57'00		minimum elong	7551 Oct 11 04:46	22° $\text{♄}$ 35'07	1°41'06
	7550 Nov 07 04:52	0° $\text{♄}$		max. Earth dist.	7551 Oct 14 02:15	28° $\text{♄}$ 44'24	1.33576 AU
desc. node	7550 Nov 14 02:02	12° $\text{♄}$ 00'58			7551 Oct 14 16:42	0° $\text{♄}$	
	7550 Nov 25 20:19	0° $\text{♄}$		evening rise	7551 Oct 18 22:47	8° $\text{♄}$ 39'52	
evening max el	7550 Dec 09 19:12	16° $\text{♄}$ 45'51	26°39'52		7551 Oct 30 16:17	0° $\text{♄}$	
retrograde	7550 Dec 22 19:53	24° $\text{♄}$ 02'11		desc. node	7551 Oct 31 23:03	2° $\text{♄}$ 06'09	
evening set	7550 Dec 29 07:33	21° $\text{♄}$ 26'56			7551 Nov 22 01:38	0° $\text{♄}$	
min. Earth dist.	7551 Jan 02 09:27	17° $\text{♄}$ 19'10	0.66132 AU	evening max el	7551 Nov 22 07:58	0° $\text{♄}$ 15'13	27°17'53
inferior conj	7551 Jan 04 05:29	15° $\text{♄}$ 08'44	-0°35'39	retrograde	7551 Dec 05 19:24	7° $\text{♄}$ 34'32	
minimum elong	7551 Jan 04 06:29	15° $\text{♄}$ 05'47	0°35'07	evening set	7551 Dec 12 16:57	4° $\text{♄}$ 57'46	
asc. node	7551 Jan 05 23:46	13° $\text{♄}$ 06'36		min. Earth dist.	7551 Dec 16 13:14	1° $\text{♄}$ 24'01	0.64687 AU
morning rise	7551 Jan 10 06:17	9° $\text{♄}$ 27'07			7551 Dec 17 20:29	30° $\text{♄}$	
direct	7551 Jan 13 04:00	8° $\text{♄}$ 40'08		inferior conj	7551 Dec 18 21:03	28° $\text{♄}$ 53'06	-1°40'12
morning max el	7551 Jan 19 16:31	12° $\text{♄}$ 10'36	18°21'51	minimum elong	7551 Dec 19 00:04	28° $\text{♄}$ 44'53	1°38'51
	7551 Feb 01 12:21	0° $\text{♄}$		asc. node	7551 Dec 23 20:50	24° $\text{♄}$ 14'54	
morning set	7551 Feb 08 08:45	10° $\text{♄}$ 55'56		morning rise	7551 Dec 25 08:37	23° $\text{♄}$ 25'09	
desc. node	7551 Feb 10 01:24	13° $\text{♄}$ 38'23		direct	7551 Dec 27 22:19	22° $\text{♄}$ 50'49	
	7551 Feb 20 09:05	0° $\text{♄}$		morning max el	7552 Jan 03 08:58	26° $\text{♄}$ 14'12	17°56'18
					7552 Jan 06 14:51	0° $\text{♄}$	
superior conj	7551 Feb 23 23:40	5° $\text{♄}$ 39'49	-1°29'09	morning set	7552 Jan 20 18:29	22° $\text{♄}$ 22'37	
minimum elong	7551 Feb 23 14:12	5° $\text{♄}$ 02'43	1°28'06		7552 Jan 25 08:23	0° $\text{♄}$	
max. Earth dist.	7551 Feb 25 01:18	7° $\text{♄}$ 20'11	1.45486 AU	desc. node	7552 Jan 27 22:22	4° $\text{♄}$ 15'10	
evening rise	7551 Mar 11 23:10	0° $\text{♄}$					
	7551 Mar 11 12:33	0° $\text{♄}$		superior conj	7552 Feb 03 12:25	14° $\text{♄}$ 54'46	-0°46'00
greatest brilliancy	7551 Mar 22 09:22	17° $\text{♄}$ 00'41	-0.8m	minimum elong	7552 Feb 03 07:02	14° $\text{♄}$ 33'13	0°45'12
	7551 Mar 31 08:49	0° $\text{♄}$		max. Earth dist.	7552 Feb 07 21:04	21° $\text{♄}$ 50'04	1.45087 AU
asc. node	7551 Apr 03 22:50	4° $\text{♄}$ 08'49			7552 Feb 13 02:13	0° $\text{♄}$	
evening max el	7551 Apr 03 21:04	4° $\text{♄}$ 04'20	19°06'05	evening rise	7552 Feb 19 15:00	10° $\text{♄}$ 06'11	
retrograde	7551 Apr 10 18:31	7° $\text{♄}$ 56'55			7552 Mar 03 17:51	0° $\text{♄}$	

greatest brilliancy	7552 Mar 05 04:51	2°♿08'54	-0.6m		7553 Feb 26 19:13	0°♿	
evening max el	7552 Mar 17 01:50	17°♿41'13	19°59'29	evening max el	7553 Feb 28 01:02	1°♿18'51	21°06'17
asc. node	7552 Mar 20 19:53	20°♿49'41		asc. node	7553 Mar 07 16:57	6°♿18'30	
retrograde	7552 Mar 24 16:44	22°♿06'05		retrograde	7553 Mar 08 15:08	6°♿22'56	
evening set	7552 Mar 28 11:29	20°♿42'45		evening set	7553 Mar 12 19:24	4°♿44'37	
inferior conj	7552 Apr 02 20:10	14°♿41'18	3°13'55		7553 Mar 17 01:07	30°♿	
minimum elong	7552 Apr 02 18:41	14°♿46'16	3°13'42	inferior conj	7553 Mar 18 02:54	28°♿31'23	2°52'12
min. Earth dist.	7552 Apr 03 18:26	13°♿26'16	0.67380 AU	minimum elong	7553 Mar 18 00:48	28°♿38'40	2°51'44
morning rise	7552 Apr 08 01:39	8°♿24'50		min. Earth dist.	7553 Mar 18 11:54	28°♿00'12	0.68073 AU
direct	7552 Apr 13 22:09	5°♿47'59		morning rise	7553 Mar 23 06:00	22°♿17'23	
desc. node	7552 Apr 24 21:54	12°♿03'37		direct	7553 Mar 28 12:51	19°♿57'40	
morning max el	7552 Apr 25 17:30	12°♿52'17	25°00'54	morning max el	7553 Apr 08 02:37	26°♿15'45	23°32'02
	7552 May 09 13:05	0°♿		desc. node	7553 Apr 11 18:53	0°♿16'45	
	7552 May 28 16:45	0°♿			7553 Apr 11 13:06	0°♿	
morning set	7552 May 31 18:49	5°♿24'48			7553 May 03 02:35	0°♿	
max. Earth dist.	7552 Jun 04 09:54	12°♿00'13	1.36809 AU	morning set	7553 May 13 06:20	16°♿28'12	
				max. Earth dist.	7553 May 17 05:36	23°♿18'18	1.39002 AU
					7553 May 20 23:46	0°♿	
superior conj	7552 Jun 10 20:16	24°♿17'12	-0°56'56				
minimum elong	7552 Jun 10 23:41	24°♿33'59	0°56'27				
	7552 Jun 13 17:19	0°♿		superior conj	7553 May 24 18:05	6°♿55'42	-1°27'19
asc. node	7552 Jun 16 19:02	6°♿11'22		minimum elong	7553 May 24 23:13	7°♿19'44	1°26'42
evening rise	7552 Jun 19 04:36	11°♿02'02		evening rise	7553 Jun 03 01:00	24°♿45'48	
	7552 Jun 29 09:56	0°♿		asc. node	7553 Jun 03 16:02	25°♿58'41	
evening max el	7552 Jul 06 06:44	8°♿55'58	19°33'52		7553 Jun 05 18:13	0°♿	
retrograde	7552 Jul 15 23:33	13°♿42'45		evening max el	7553 Jun 19 06:18	21°♿00'06	18°44'17
evening set	7552 Jul 17 20:14	13°♿32'57		retrograde	7553 Jun 27 10:39	25°♿02'57	
desc. node	7552 Jul 21 21:06	12°♿11'52		evening set	7553 Jun 29 11:47	24°♿48'40	
inferior conj	7552 Jul 26 14:37	9°♿28'13	-1°26'28	inferior conj	7553 Jul 07 11:02	20°♿26'49	0°23'11
minimum elong	7552 Jul 26 10:41	9°♿34'27	1°25'02	minimum elong	7553 Jul 07 11:56	20°♿25'11	0°22'45
min. Earth dist.	7552 Jul 28 23:49	7°♿57'40	0.55547 AU	desc. node	7553 Jul 08 18:10	19°♿29'02	
morning rise	7552 Aug 03 22:43	4°♿57'08		min. Earth dist.	7553 Jul 10 16:29	18°♿04'48	0.57145 AU
direct	7552 Aug 08 16:18	4°♿07'02		morning rise	7553 Jul 15 08:35	15°♿18'38	
morning max el	7552 Aug 22 16:05	11°♿07'00	24°54'26	direct	7553 Jul 20 23:02	14°♿01'34	
	7552 Sep 06 00:13	0°♿		morning max el	7553 Aug 04 07:15	21°♿32'08	26°25'34
asc. node	7552 Sep 12 18:30	12°♿16'56			7553 Aug 11 17:00	0°♿	
morning set	7552 Sep 17 17:17	22°♿26'14			7553 Aug 29 16:43	0°♿	
	7552 Sep 21 05:12	0°♿		asc. node	7553 Aug 30 15:28	1°♿55'25	
				morning set	7553 Sep 02 03:49	7°♿10'05	
superior conj	7552 Sep 24 14:33	7°♿26'14	1°34'58				
minimum elong	7552 Sep 24 12:59	7°♿17'41	1°34'52	superior conj	7553 Sep 09 01:56	22°♿17'47	1°23'23
max. Earth dist.	7552 Sep 26 05:27	10°♿58'32	1.32504 AU	minimum elong	7553 Sep 08 23:48	22°♿06'00	1°23'07
evening rise	7552 Oct 01 19:38	22°♿49'26		max. Earth dist.	7553 Sep 09 13:55	23°♿24'04	1.31883 AU
	7552 Oct 05 09:47	0°♿			7553 Sep 12 13:55	0°♿	
desc. node	7552 Oct 17 20:05	21°♿45'02		evening rise	7553 Sep 15 23:31	7°♿17'17	
	7552 Oct 23 10:58	0°♿			7553 Sep 27 21:11	0°♿	
evening max el	7552 Nov 03 18:29	13°♿18'02	27°28'13	desc. node	7553 Oct 04 17:08	10°♿46'53	
retrograde	7552 Nov 17 12:22	20°♿34'52		evening max el	7553 Oct 17 00:30	25°♿42'19	27°06'06
evening set	7552 Nov 24 15:06	18°♿05'33			7553 Oct 22 09:27	0°♿	
min. Earth dist.	7552 Nov 28 07:28	15°♿01'58	0.62923 AU	retrograde	7553 Oct 30 21:53	2°♿53'38	
inferior conj	7552 Dec 01 02:21	12°♿19'42	-2°48'17	evening set	7553 Nov 06 22:14	0°♿42'59	
minimum elong	7552 Dec 01 07:34	12°♿07'00	2°46'14		7553 Nov 08 00:43	30°♿	
morning rise	7552 Dec 08 02:00	7°♿08'36		min. Earth dist.	7553 Nov 10 15:11	28°♿00'56	0.60919 AU
asc. node	7552 Dec 09 17:53	6°♿45'22		inferior conj	7553 Nov 13 18:11	25°♿20'31	-3°55'25
direct	7552 Dec 10 10:04	6°♿43'13		minimum elong	7553 Nov 14 01:03	25°♿05'48	3°53'17
morning max el	7552 Dec 17 02:09	10°♿08'47	17°48'11	morning rise	7553 Nov 21 06:08	20°♿29'14	
	7552 Dec 30 08:21	0°♿		direct	7553 Nov 23 11:39	20°♿09'14	
morning set	7553 Jan 02 04:41	4°♿59'34		asc. node	7553 Nov 26 14:54	20°♿50'30	
				morning max el	7553 Nov 30 16:48	23°♿45'47	17°58'38
					7553 Dec 05 16:45	0°♿	
superior conj	7553 Jan 13 23:51	25°♿16'57	-0°01'23	morning set	7553 Dec 16 08:56	18°♿27'52	
minimum elong	7553 Jan 13 23:43	25°♿16'25	0°01'16		7553 Dec 22 16:13	0°♿	
behind sun begin	7553 Jan 13 14:32	24°♿38'04					
behind sun end	7553 Jan 14 08:54	25°♿54'40					
desc. node	7553 Jan 13 19:18	24°♿57'58		superior conj	7553 Dec 26 13:07	6°♿53'39	0°37'09
	7553 Jan 16 20:20	0°♿		minimum elong	7553 Dec 26 15:59	7°♿06'16	0°36'50
max. Earth dist.	7553 Jan 20 14:06	6°♿04'02	1.43995 AU	desc. node	7553 Dec 31 16:18	15°♿43'57	
evening rise	7553 Jan 29 02:11	19°♿26'46		max. Earth dist.	7554 Jan 03 02:50	19°♿48'40	1.42340 AU
	7553 Feb 05 00:31	0°♿		evening rise	7554 Jan 09 00:11	29°♿21'37	

	7554 Jan 09 09:52	0°♊			7555 Jan 02 08:45	0°♊		
	7554 Jan 29 15:12	0°♋		evening max el	7555 Jan 24 10:10	28°♊42'22	23°42'24	
evening max el	7554 Feb 10 19:20	14°♋59'04	22°22'21		7555 Jan 25 18:26	0°♋		
retrograde	7554 Feb 20 11:55	20°♋44'04		retrograde	7555 Feb 04 05:40	5°♋04'48		
asc. node	7554 Feb 22 14:02	20°♋21'46		evening set	7555 Feb 09 09:00	2°♋56'37		
evening set	7554 Feb 25 03:06	18°♋50'40		asc. node	7555 Feb 09 11:06	2°♋52'08		
inferior conj	7554 Mar 02 11:20	12°♋28'43	2°21'03		7555 Feb 12 04:00	30°♌		
minimum elong	7554 Mar 02 09:02	12°♋36'41	2°20'24	min. Earth dist.	7555 Feb 14 04:49	27°♌19'56	0.68218 AU	
min. Earth dist.	7554 Mar 02 08:09	12°♋39'48	0.68348 AU	inferior conj	7555 Feb 14 19:33	26°♌29'38	1°41'23	
morning rise	7554 Mar 07 14:50	6°♋18'45		minimum elong	7555 Feb 14 17:31	26°♌36'33	1°40'44	
direct	7554 Mar 12 07:35	4°♋20'19		morning rise	7555 Feb 20 02:01	20°♌25'15		
morning max el	7554 Mar 21 14:22	9°♋46'42	22°03'36	direct	7555 Feb 24 05:03	18°♌49'26		
desc. node	7554 Mar 29 15:50	19°♋17'44		morning max el	7555 Mar 04 08:19	23°♌28'35	20°43'21	
	7554 Apr 06 09:56	0°♍			7555 Mar 09 23:53	0°♋		
morning set	7554 Apr 23 14:39	26°♍14'38		desc. node	7555 Mar 16 12:48	8°♋53'03		
	7554 Apr 25 22:08	0°♌			7555 Mar 30 17:48	0°♍		
max. Earth dist.	7554 Apr 29 03:41	5°♌20'58	1.41216 AU	morning set	7555 Apr 02 21:21	4°♍52'01		
				max. Earth dist.	7555 Apr 11 09:03	18°♍19'59	1.43162 AU	
superior conj	7554 May 06 21:50	18°♌42'27	-1°53'02					
minimum elong	7554 May 07 03:21	19°♌06'54	1°52'38	superior conj	7555 Apr 18 02:49	29°♍26'46	-2°08'58	
	7554 May 13 03:44	0°♎		minimum elong	7555 Apr 18 05:42	29°♍38'51	2°08'56	
evening rise	7554 May 17 10:18	7°♎55'04			7555 Apr 18 10:44	0°♌		
asc. node	7554 May 21 13:04	15°♎30'39		evening rise	7555 Apr 30 04:11	20°♌19'41		
	7554 May 30 10:24	0°♏			7555 May 05 16:00	0°♎		
evening max el	7554 Jun 02 14:04	3°♏39'44	18°15'08	asc. node	7555 May 08 10:08	4°♎41'19		
retrograde	7554 Jun 09 16:44	7°♏13'55		evening max el	7555 May 17 02:14	16°♎44'38	18°05'38	
evening set	7554 Jun 12 01:19	6°♏51'09		retrograde	7555 May 23 15:01	20°♎06'24		
inferior conj	7554 Jun 19 05:11	2°♏08'45	1°47'18	evening set	7555 May 26 06:56	19°♎32'32		
minimum elong	7554 Jun 19 08:12	2°♏02'15	1°46'15	inferior conj	7555 Jun 01 18:40	14°♎29'53	2°42'46	
	7554 Jun 21 16:41	30°♏		minimum elong	7555 Jun 01 21:32	14°♎22'43	2°42'02	
min. Earth dist.	7554 Jun 22 14:48	29°♎13'53	0.59239 AU	min. Earth dist.	7555 Jun 04 20:55	11°♎26'15	0.61477 AU	
desc. node	7554 Jun 25 15:12	27°♎00'48		morning rise	7555 Jun 08 10:03	8°♎29'40		
morning rise	7554 Jun 26 12:00	26°♎29'26		desc. node	7555 Jun 12 12:14	6°♎31'48		
direct	7554 Jul 02 19:32	24°♎40'12		direct	7555 Jun 15 03:03	6°♎11'00		
	7554 Jul 14 11:00	0°♏		morning max el	7555 Jun 29 08:14	14°♎10'45	27°54'31	
morning max el	7554 Jul 17 04:26	2°♏29'43	27°28'21		7555 Jul 12 01:52	0°♏		
	7554 Aug 06 03:34	0°♐			7555 Jul 29 14:50	0°♐		
morning set	7554 Aug 17 11:30	21°♐43'15		morning set	7555 Aug 01 14:30	6°♐00'27		
asc. node	7554 Aug 17 12:26	21°♐48'09		asc. node	7555 Aug 04 09:26	11°♐50'07		
	7554 Aug 21 08:10	0°♑		max. Earth dist.	7555 Aug 07 09:03	18°♐15'40	1.31998 AU	
max. Earth dist.	7554 Aug 24 00:22	5°♑53'26	1.31716 AU					
				superior conj	7555 Aug 09 00:02	21°♐48'51	0°45'45	
superior conj	7554 Aug 24 13:41	7°♑07'08	1°06'50	minimum elong	7555 Aug 08 22:09	21°♐38'35	0°45'19	
minimum elong	7554 Aug 24 11:26	6°♑54'42	1°06'26		7555 Aug 12 17:20	0°♑		
evening rise	7554 Aug 31 08:03	21°♑56'28		evening rise	7555 Aug 15 19:10	6°♑40'38		
	7554 Sep 04 05:18	0°♒			7555 Aug 27 22:08	0°♒		
desc. node	7554 Sep 21 14:13	28°♒56'43		desc. node	7555 Sep 08 11:17	15°♒54'13		
	7554 Sep 22 09:54	0°♓		evening max el	7555 Sep 10 14:48	18°♒05'26	24°46'40	
evening max el	7554 Sep 28 23:33	7°♓18'05	26°10'19	retrograde	7555 Sep 24 10:57	25°♒03'34		
retrograde	7554 Oct 12 21:59	14°♓23'11		evening set	7555 Sep 29 20:42	23°♒58'03		
evening set	7554 Oct 19 09:31	12°♓42'01		min. Earth dist.	7555 Oct 05 01:58	21°♒12'31	0.56909 AU	
min. Earth dist.	7554 Oct 23 12:38	10°♓07'22	0.58836 AU	inferior conj	7555 Oct 07 19:58	19°♒25'44	-5°28'00	
inferior conj	7554 Oct 26 16:59	7°♓45'22	-4°53'21	minimum elong	7555 Oct 07 22:27	19°♒21'42	5°27'48	
minimum elong	7554 Oct 26 23:30	7°♓33'10	4°52'01	morning rise	7555 Oct 16 02:25	15°♒19'20		
morning rise	7554 Nov 03 15:46	3°♓16'24		direct	7555 Oct 18 15:56	15°♒00'59		
direct	7554 Nov 05 22:54	2°♓58'36		morning max el	7555 Oct 28 00:15	19°♒26'23	19°21'18	
asc. node	7554 Nov 13 11:55	6°♓23'27		asc. node	7555 Oct 31 08:56	23°♒10'22		
morning max el	7554 Nov 14 01:19	6°♓54'46	18°29'09		7555 Nov 05 00:58	0°♓		
	7554 Nov 28 18:20	0°♈		morning set	7555 Nov 14 03:05	16°♓56'43		
morning set	7554 Nov 30 01:44	2°♈30'40			7555 Nov 20 15:53	0°♈		
superior conj	7554 Dec 09 00:32	19°♈33'22	1°06'33	superior conj	7555 Nov 22 05:00	3°♈02'00	1°26'33	
minimum elong	7554 Dec 09 04:03	19°♈49'39	1°06'13	minimum elong	7555 Nov 22 07:46	3°♈15'29	1°26'23	
	7554 Dec 14 19:17	0°♉		max. Earth dist.	7555 Nov 28 16:49	15°♈18'15	1.38159 AU	
max. Earth dist.	7554 Dec 16 11:06	2°♉53'38	1.40314 AU	evening rise	7555 Dec 02 10:32	21°♈59'31		
desc. node	7554 Dec 18 13:18	6°♉28'43		desc. node	7555 Dec 05 10:21	27°♈08'48		
evening rise	7554 Dec 20 18:18	10°♉11'12			7555 Dec 07 03:08	0°♉		

	7555 Dec 27 06:50	0°♊		evening rise	7556 Nov 13 22:24	4°♊40'06	
evening max el	7556 Jan 06 23:21	12°♊28'26	24°59'57	desc. node	7556 Nov 21 07:23	17°♊39'37	
retrograde	7556 Jan 18 19:22	19°♊20'33			7556 Nov 29 00:42	0°♊	
evening set	7556 Jan 24 11:37	16°♊58'59		evening max el	7556 Dec 19 12:15	26°♊13'59	26°08'00
asc. node	7556 Jan 27 08:11	14°♊01'08			7556 Dec 23 20:58	0°♊	
min. Earth dist.	7556 Jan 28 23:40	11°♊56'47	0.67698 AU	retrograde	7557 Jan 01 04:17	3°♊25'23	
inferior conj	7556 Jan 30 01:44	10°♊31'15	0°53'50	evening set	7557 Jan 07 09:12	0°♊53'32	
minimum elong	7556 Jan 30 00:28	10°♊35'24	0°53'25		7557 Jan 08 09:13	30°♊♊	
morning rise	7556 Feb 04 13:35	4°♊34'10		min. Earth dist.	7557 Jan 11 14:30	26°♊26'01	0.66801 AU
direct	7556 Feb 08 03:55	3°♊19'47		inferior conj	7557 Jan 13 03:59	24°♊30'06	-0°01'03
morning max el	7556 Feb 15 10:17	7°♊22'47	19°36'04	minimum elong	7557 Jan 13 04:00	24°♊30'02	0°00'56
greatest brilliancy	7556 Feb 28 05:27	24°♊08'51	-0.7m	transit middle	7557 Jan 13 04:00	24°♊30'02	0°00'56
desc. node	7556 Mar 02 09:47	28°♊53'27		transit begin	7557 Jan 13 01:09	24°♊38'52	
	7556 Mar 03 03:27	0°♊		transit end	7557 Jan 13 06:51	24°♊21'12	
morning set	7556 Mar 11 18:37	13°♊10'52		asc. node	7557 Jan 13 05:14	24°♊26'12	
	7556 Mar 22 13:42	0°♊		morning rise	7557 Jan 18 23:28	18°♊42'16	
max. Earth dist.	7556 Mar 23 21:42	2°♊06'28	1.44596 AU	direct	7557 Jan 22 02:38	17°♊46'29	
				morning max el	7557 Jan 28 19:39	21°♊25'47	18°44'15
superior conj	7556 Mar 28 06:50	9°♊05'46	-2°09'00		7557 Feb 04 17:00	0°♊	
minimum elong	7556 Mar 28 03:25	8°♊52'04	2°08'55	desc. node	7557 Feb 17 06:46	19°♊12'08	
	7556 Apr 09 23:49	0°♊		morning set	7557 Feb 19 06:58	22°♊21'12	
evening rise	7556 Apr 11 02:06	1°♊50'31			7557 Feb 24 03:58	0°♊	
asc. node	7556 Apr 24 07:12	23°♊23'21		max. Earth dist.	7557 Mar 06 15:01	16°♊22'31	1.45363 AU
evening max el	7556 Apr 29 15:27	0°♊05'46	18°15'00				
	7556 Apr 29 13:09	0°♊		superior conj	7557 Mar 07 15:33	17°♊58'41	-1°49'03
retrograde	7556 May 06 00:49	3°♊29'47		minimum elong	7557 Mar 07 06:29	17°♊23'09	1°48'17
evening set	7556 May 08 23:40	2°♊43'13			7557 Mar 15 06:35	0°♊	
	7556 May 12 12:11	30°♊♊		evening rise	7557 Mar 23 00:50	12°♊23'24	
inferior conj	7556 May 14 23:22	27°♊22'00	3°13'40	greatest brilliancy	7557 Mar 30 04:41	23°♊53'33	-0.9m
minimum elong	7556 May 15 01:03	27°♊17'16	3°13'23		7557 Apr 03 01:35	0°♊	
min. Earth dist.	7556 May 17 12:21	24°♊31'52	0.63587 AU	asc. node	7557 Apr 11 04:17	11°♊27'59	
morning rise	7556 May 21 01:13	21°♊10'11		evening max el	7557 Apr 13 03:00	13°♊36'54	18°42'30
direct	7556 May 27 19:41	18°♊30'59		retrograde	7557 Apr 19 17:54	17°♊15'58	
desc. node	7556 May 29 09:17	18°♊38'45		evening set	7557 Apr 22 23:51	16°♊15'46	
morning max el	7556 Jun 10 16:47	26°♊32'34	27°42'53	inferior conj	7557 Apr 28 15:18	10°♊37'42	3°25'11
	7556 Jun 13 22:07	0°♊		minimum elong	7557 Apr 28 15:35	10°♊36'50	3°25'07
	7556 Jul 04 16:39	0°♊		min. Earth dist.	7557 Apr 30 13:01	8°♊17'35	0.65388 AU
morning set	7556 Jul 15 10:26	19°♊53'57		morning rise	7557 May 04 06:40	4°♊21'04	
	7556 Jul 20 08:30	0°♊		direct	7557 May 10 20:09	1°♊33'28	
max. Earth dist.	7556 Jul 20 11:51	0°♊17'37	1.32741 AU	desc. node	7557 May 16 06:17	3°♊07'04	
asc. node	7556 Jul 21 06:26	1°♊56'01		morning max el	7557 May 24 03:12	9°♊24'54	26°58'04
					7557 Jun 09 06:19	0°♊	
superior conj	7556 Jul 23 07:01	6°♊16'04	0°20'35		7557 Jun 27 03:08	0°♊	
minimum elong	7556 Jul 23 06:03	6°♊10'48	0°20'17	morning set	7557 Jun 28 20:21	3°♊15'39	
evening rise	7556 Jul 30 06:51	21°♊22'37		max. Earth dist.	7557 Jul 03 05:00	11°♊50'51	1.33965 AU
	7556 Aug 03 10:43	0°♊					
evening max el	7556 Aug 22 02:16	28°♊22'09	23°08'44	superior conj	7557 Jul 07 08:35	20°♊23'06	-0°08'00
	7556 Aug 23 21:06	0°♊		minimum elong	7557 Jul 07 09:01	20°♊25'23	0°08'01
desc. node	7556 Aug 25 08:23	1°♊10'56		behind sun begin	7557 Jul 07 04:04	19°♊59'29	
retrograde	7556 Sep 04 11:50	5°♊04'19		behind sun end	7557 Jul 07 13:58	20°♊51'18	
evening set	7556 Sep 08 09:34	4°♊30'55		asc. node	7557 Jul 08 03:27	22°♊02'07	
min. Earth dist.	7556 Sep 15 11:11	1°♊16'45	0.55438 AU		7557 Jul 11 21:42	0°♊	
inferior conj	7556 Sep 17 03:18	0°♊18'27	-5°20'55	evening rise	7557 Jul 14 17:14	5°♊56'52	
minimum elong	7556 Sep 16 22:35	0°♊25'20	5°20'26		7557 Jul 27 17:42	0°♊	
	7556 Sep 17 16:01	30°♊♊		evening max el	7557 Aug 03 18:46	8°♊43'59	21°33'04
morning rise	7556 Sep 25 13:49	26°♊27'57		desc. node	7557 Aug 12 05:26	14°♊14'22	
direct	7556 Sep 28 13:34	26°♊06'43		retrograde	7557 Aug 16 02:27	14°♊50'24	
	7556 Oct 08 02:08	0°♊		evening set	7557 Aug 18 15:47	14°♊35'31	
morning max el	7556 Oct 09 10:53	1°♊11'50	20°35'46	inferior conj	7557 Aug 27 21:40	10°♊36'34	-4°19'39
asc. node	7556 Oct 17 05:57	10°♊55'17		minimum elong	7557 Aug 27 12:21	10°♊49'38	4°17'18
	7556 Oct 27 15:03	0°♊		min. Earth dist.	7557 Aug 27 20:17	10°♊38'31	0.54736 AU
morning set	7556 Oct 28 09:57	1°♊36'52		morning rise	7557 Sep 05 09:54	6°♊45'25	
				direct	7557 Sep 08 23:02	6°♊18'05	
superior conj	7556 Nov 04 21:45	17°♊05'33	1°37'59	morning max el	7557 Sep 21 09:13	12°♊10'19	22°09'44
minimum elong	7556 Nov 04 23:12	17°♊12'59	1°37'58	asc. node	7557 Oct 04 02:56	29°♊24'52	
max. Earth dist.	7556 Nov 10 00:21	27°♊15'23	1.36118 AU		7557 Oct 04 10:56	0°♊	
	7556 Nov 11 10:39	0°♊		morning set	7557 Oct 12 20:07	16°♊24'54	

	7557 Oct 19 05:28	0°♄		morning set	7558 Sep 27 07:47	1°♄15'51	
superior conj	7557 Oct 19 23:04	1°♄33'05	1°41'52	superior conj	7558 Oct 04 06:05	16°♄16'03	1°39'11
minimum elong	7557 Oct 19 23:10	1°♄33'36	1°41'55	minimum elong	7558 Oct 04 05:02	16°♄10'21	1°39'10
max. Earth dist.	7557 Oct 23 14:34	9°♄08'19	1.34388 AU	max. Earth dist.	7558 Oct 06 13:32	21°♄14'37	1.33067 AU
evening rise	7557 Oct 28 02:01	18°♄03'21			7558 Oct 10 18:03	0°♄	
	7557 Nov 03 12:55	0°♄		evening rise	7558 Oct 11 17:36	1°♄59'23	
desc. node	7557 Nov 08 04:25	7°♄55'56		desc. node	7558 Oct 26 01:27	27°♄51'18	
	7557 Nov 23 06:33	0°♄			7558 Oct 27 10:04	0°♄	
evening max el	7557 Dec 02 01:19	9°♄52'12	26°59'07	evening max el	7558 Nov 14 13:37	23°♄13'02	27°26'07
retrograde	7557 Dec 15 07:35	17°♄11'39			7558 Nov 24 20:09	0°♄	
evening set	7557 Dec 21 23:44	14°♄34'47		retrograde	7558 Nov 28 04:29	0°♄31'37	
min. Earth dist.	7557 Dec 25 23:03	10°♄41'38	0.65549 AU		7558 Dec 01 09:20	30°♄	
inferior conj	7557 Dec 28 00:08	8°♄21'20	-1°02'29	evening set	7558 Dec 05 04:45	27°♄57'11	
minimum elong	7557 Dec 28 01:57	8°♄16'08	1°01'36	min. Earth dist.	7558 Dec 08 23:11	24°♄36'37	0.63968 AU
asc. node	7557 Dec 31 02:18	5°♄02'56		inferior conj	7558 Dec 11 11:44	21°♄59'45	-2°08'50
morning rise	7558 Jan 03 05:19	2°♄45'10		minimum elong	7558 Dec 11 15:42	21°♄49'26	2°07'09
direct	7558 Jan 05 23:13	2°♄04'12		asc. node	7558 Dec 17 23:19	16°♄43'28	
morning max el	7558 Jan 12 10:15	5°♄30'51	18°08'52	morning rise	7558 Dec 18 04:18	16°♄38'15	
	7558 Jan 29 04:13	0°♄		direct	7558 Dec 20 15:16	16°♄08'09	
morning set	7558 Jan 30 23:59	2°♄58'23		morning max el	7558 Dec 27 03:22	19°♄31'38	17°50'37
desc. node	7558 Feb 04 03:44	9°♄43'20			7559 Jan 03 22:31	0°♄	
				morning set	7559 Jan 12 21:01	14°♄58'03	
superior conj	7558 Feb 14 21:08	26°♄50'14	-1°11'42		7559 Jan 21 19:05	0°♄	
minimum elong	7558 Feb 14 12:52	26°♄17'41	1°10'39	desc. node	7559 Jan 22 00:42	0°♄23'14	
	7558 Feb 16 21:24	0°♄					
max. Earth dist.	7558 Feb 17 10:14	0°♄50'23	1.45397 AU	superior conj	7559 Jan 25 18:28	6°♄31'00	-0°26'42
evening rise	7558 Mar 03 01:32	22°♄05'15		minimum elong	7559 Jan 25 15:28	6°♄18'48	0°26'11
	7558 Mar 08 03:59	0°♄		max. Earth dist.	7559 Jan 31 05:13	15°♄15'45	1.44705 AU
greatest brilliancy	7558 Mar 15 12:58	11°♄17'44	-0.7m		7559 Feb 09 15:46	0°♄	
evening max el	7558 Mar 27 10:42	27°♄12'26	19°27'02	evening rise	7559 Feb 10 13:31	1°♄23'34	
asc. node	7558 Mar 29 01:21	28°♄43'05			7559 Mar 01 20:02	0°♄	
	7558 Mar 30 18:23	0°♄		evening max el	7559 Mar 10 13:15	10°♄50'03	20°26'31
retrograde	7558 Apr 03 14:53	1°♄17'45		asc. node	7559 Mar 15 22:25	14°♄55'08	
evening set	7558 Apr 07 04:40	0°♄03'05		retrograde	7559 Mar 18 13:17	15°♄30'28	
	7558 Apr 07 06:25	30°♄		evening set	7559 Mar 22 11:59	14°♄00'47	
inferior conj	7558 Apr 12 15:03	24°♄09'51	3°21'36	inferior conj	7559 Mar 27 19:55	7°♄54'15	3°05'55
minimum elong	7558 Apr 12 14:07	24°♄12'55	3°21'29	minimum elong	7559 Mar 27 18:07	8°♄00'22	3°05'36
min. Earth dist.	7558 Apr 13 21:39	22°♄29'34	0.66782 AU	min. Earth dist.	7559 Mar 28 12:25	6°♄57'50	0.67734 AU
morning rise	7558 Apr 17 23:14	17°♄52'39		morning rise	7559 Apr 02 00:02	1°♄38'49	
direct	7558 Apr 24 02:56	15°♄08'44			7559 Apr 04 06:56	30°♄	
desc. node	7558 May 03 03:17	19°♄24'28		direct	7559 Apr 07 15:01	29°♄08'23	
morning max el	7558 May 06 13:01	22°♄34'30	25°48'20		7559 Apr 11 05:51	0°♄	
	7558 May 13 01:38	0°♄		morning max el	7559 Apr 18 21:55	5°♄53'36	24°23'36
	7558 Jun 02 13:27	0°♄		desc. node	7559 Apr 20 00:16	7°♄01'57	
morning set	7558 Jun 11 16:19	15°♄54'21			7559 May 07 13:29	0°♄	
max. Earth dist.	7558 Jun 15 10:56	22°♄58'36	1.35657 AU	morning set	7559 May 24 17:20	27°♄36'32	
	7558 Jun 19 01:31	0°♄			7559 May 26 02:01	0°♄	
				max. Earth dist.	7559 May 28 08:45	4°♄04'34	1.37725 AU
superior conj	7558 Jun 21 02:05	4°♄02'42	-0°38'49				
minimum elong	7558 Jun 21 04:21	4°♄14'08	0°38'29	superior conj	7559 Jun 04 08:16	17°♄06'33	-1°10'08
asc. node	7558 Jun 25 00:29	12°♄04'13		minimum elong	7559 Jun 04 12:29	17°♄26'52	1°09'32
evening rise	7558 Jun 29 00:14	20°♄17'06			7559 Jun 10 21:43	0°♄	
	7558 Jul 03 21:09	0°♄		asc. node	7559 Jun 11 21:30	1°♄58'16	
evening max el	7558 Jul 16 23:07	19°♄40'09	20°11'48	evening rise	7559 Jun 13 01:22	4°♄16'40	
retrograde	7558 Jul 27 15:29	24°♄55'50			7559 Jun 28 09:49	0°♄	
evening set	7558 Jul 29 13:44	24°♄46'19		evening max el	7559 Jun 29 16:22	1°♄20'15	19°10'13
desc. node	7558 Jul 30 02:28	24°♄40'29		retrograde	7559 Jul 08 16:16	5°♄46'26	
inferior conj	7558 Aug 07 16:20	20°♄48'09	-2°34'33	evening set	7559 Jul 10 14:21	5°♄35'09	
minimum elong	7558 Aug 07 09:16	20°♄58'36	2°32'04	desc. node	7559 Jul 16 23:32	2°♄45'00	
min. Earth dist.	7558 Aug 09 07:05	19°♄50'53	0.54983 AU	inferior conj	7559 Jul 19 00:59	1°♄23'45	-0°37'34
morning rise	7558 Aug 16 03:32	16°♄36'22		minimum elong	7559 Jul 18 23:21	1°♄26'29	0°37'02
direct	7558 Aug 20 10:00	15°♄56'52			7559 Jul 21 02:35	30°♄	
morning max el	7558 Sep 02 23:22	22°♄34'26	23°54'41	min. Earth dist.	7559 Jul 21 20:49	29°♄29'57	0.56148 AU
	7558 Sep 09 13:05	0°♄		morning rise	7559 Jul 27 05:22	26°♄37'16	
asc. node	7558 Sep 20 23:55	18°♄28'20		direct	7559 Aug 01 08:10	25°♄36'46	
	7558 Sep 26 17:26	0°♄			7559 Aug 12 05:29	0°♄	

morning max el	7559 Aug 15 12:19	2°Ω50'22	25°35'52	direct	7560 Jul 12 20:36	5°Ω48'32	
	7559 Sep 03 17:44	0°♍		morning max el	7560 Jul 27 06:02	13°Ω28'00	26°56'30
asc. node	7559 Sep 07 20:54	7°♍56'14			7560 Aug 09 08:48	0°Ω	
morning set	7559 Sep 11 19:12	16°♍03'52		asc. node	7560 Aug 24 17:54	27°Ω41'47	
	7559 Sep 18 04:26	0°♎			7560 Aug 25 20:23	0°♍	
				morning set	7560 Aug 26 04:47	0°♍44'18	
superior conj	7559 Sep 18 16:26	1°♎06'12	1°30'41				
minimum elong	7559 Sep 18 14:35	0°♎55'59	1°30'31	superior conj	7560 Sep 02 04:13	15°♍57'39	1°16'58
max. Earth dist.	7559 Sep 19 19:37	3°♎35'43	1.32190 AU	minimum elong	7560 Sep 02 01:59	15°♍45'15	1°16'37
evening rise	7559 Sep 25 17:48	16°♎17'56		max. Earth dist.	7560 Sep 02 05:35	16°♍05'11	1.31760 AU
	7559 Oct 02 16:49	0°♎		evening rise	7560 Sep 08 23:58	0°♎51'30	
desc. node	7559 Oct 12 22:30	17°♎16'07			7560 Sep 08 14:16	0°♎	
	7559 Oct 22 07:36	0°♏			7560 Sep 24 18:33	0°♎	
evening max el	7559 Oct 27 22:45	6°♏01'38	27°22'58	desc. node	7560 Sep 28 19:34	5°♎58'03	
retrograde	7559 Nov 10 18:04	13°♏15'18		evening max el	7560 Oct 09 01:55	18°♎05'27	26°46'09
evening set	7559 Nov 17 20:59	10°♏52'42		retrograde	7560 Oct 22 23:39	25°♎14'03	
min. Earth dist.	7559 Nov 21 12:59	7°♏59'37	0.62099 AU	evening set	7560 Oct 29 20:18	23°♎14'23	
inferior conj	7559 Nov 24 11:45	5°♏16'40	-3°17'13	min. Earth dist.	7560 Nov 02 15:53	20°♎37'52	0.60040 AU
minimum elong	7559 Nov 24 17:48	5°♏02'41	3°15'02	inferior conj	7560 Nov 05 20:44	18°♎02'59	-4°21'47
morning rise	7559 Dec 01 16:40	0°♏13'23		minimum elong	7560 Nov 06 03:49	17°♎48'40	4°19'52
	7559 Dec 02 12:21	30°♎		morning rise	7560 Nov 13 13:39	13°♎21'15	
direct	7559 Dec 03 23:22	29°♎50'33		direct	7560 Nov 15 19:25	13°♎02'30	
asc. node	7559 Dec 04 20:20	29°♎54'00		asc. node	7560 Nov 20 17:22	14°♎37'46	
	7559 Dec 05 10:01	0°♏		morning max el	7560 Nov 23 08:22	16°♎45'48	18°09'04
morning max el	7559 Dec 10 19:51	3°♏19'29	17°50'17		7560 Dec 02 16:16	0°♏	
morning set	7559 Dec 26 15:40	27°♏59'10		morning set	7560 Dec 09 01:48	11°♏43'24	
	7559 Dec 27 18:38	0°♐					
superior conj	7560 Jan 06 17:01	17°♐25'05	0°15'59	superior conj	7560 Dec 18 16:21	29°♏30'21	0°50'47
minimum elong	7560 Jan 06 18:30	17°♐31'22	0°15'52	minimum elong	7560 Dec 18 19:44	29°♏45'31	0°50'25
behind sun begin	7560 Jan 06 17:16	17°♐26'10			7560 Dec 18 22:57	0°♐	
behind sun end	7560 Jan 06 19:43	17°♐36'34		desc. node	7560 Dec 25 18:40	11°♐53'14	
desc. node	7560 Jan 08 21:41	21°♐07'37		max. Earth dist.	7560 Dec 26 07:57	12°♐49'16	1.41512 AU
max. Earth dist.	7560 Jan 13 21:08	29°♐20'40	1.43357 AU	evening rise	7560 Dec 31 09:29	21°♐10'39	
	7560 Jan 14 06:49	0°♑			7561 Jan 05 23:15	0°♑	
evening rise	7560 Jan 21 03:41	10°♑54'48			7561 Jan 27 00:37	0°♑	
	7560 Feb 02 19:03	0°♒		evening max el	7561 Feb 03 02:41	8°♒08'47	22°56'16
evening max el	7560 Feb 21 10:15	24°♒28'26	21°37'47	retrograde	7561 Feb 13 06:53	14°♒10'51	
retrograde	7560 Mar 01 11:08	29°♒49'37		asc. node	7561 Feb 16 16:33	13°♒12'32	
asc. node	7560 Mar 01 19:29	29°♒48'59		evening set	7561 Feb 18 03:08	12°♒10'51	
evening set	7560 Mar 05 20:00	28°♒04'37		min. Earth dist.	7561 Feb 23 03:55	6°♒14'32	0.68337 AU
inferior conj	7560 Mar 11 03:36	21°♒47'18	2°40'04	inferior conj	7561 Feb 23 12:09	5°♒46'01	2°05'12
minimum elong	7560 Mar 11 01:22	21°♒55'04	2°39'30	minimum elong	7561 Feb 23 09:55	5°♒53'45	2°04'32
min. Earth dist.	7560 Mar 11 07:15	21°♒34'38	0.68243 AU		7561 Feb 28 06:32	30°♒	
morning rise	7560 Mar 16 06:34	15°♒35'06		morning rise	7561 Feb 28 16:38	29°♒38'18	
direct	7560 Mar 21 07:26	13°♒24'17		direct	7561 Mar 05 03:20	27°♒49'46	
morning max el	7560 Mar 31 07:48	19°♒19'53	22°53'56		7561 Mar 10 13:49	0°♒	
desc. node	7560 Apr 05 21:15	25°♒37'02		morning max el	7561 Mar 13 21:57	2°♒55'18	21°28'09
	7560 Apr 09 07:36	0°♓		desc. node	7561 Mar 23 18:12	14°♒53'33	
	7560 Apr 29 17:35	0°♔			7561 Apr 03 07:07	0°♓	
morning set	7560 May 04 17:44	8°♔08'00		morning set	7561 Apr 14 14:16	17°♓21'47	
max. Earth dist.	7560 May 09 05:13	15°♔41'06	1.39957 AU	max. Earth dist.	7561 Apr 21 06:07	28°♓07'16	1.42084 AU
					7561 Apr 22 09:23	0°♔	
superior conj	7560 May 16 23:01	29°♔24'27	-1°39'03	superior conj	7561 Apr 28 17:31	10°♔44'47	-2°01'21
minimum elong	7560 May 17 04:35	29°♔49'52	1°38'29	minimum elong	7561 Apr 28 22:24	11°♔05'52	2°01'07
	7560 May 17 06:47	0°♕		evening rise	7561 May 09 20:53	0°♕38'36	
evening rise	7560 May 26 17:34	17°♕47'21			7561 May 09 12:24	0°♕	
asc. node	7560 May 28 18:32	21°♕39'57		asc. node	7561 May 15 15:36	11°♕03'27	
	7560 Jun 02 07:14	0°♖		evening max el	7561 May 26 05:54	26°♕31'26	18°08'47
evening max el	7560 Jun 11 19:52	13°♖40'34	18°29'25	retrograde	7561 Jun 02 01:31	29°♕58'49	
retrograde	7560 Jun 19 11:56	17°♖29'37		evening set	7561 Jun 04 13:07	29°♕31'45	
evening set	7560 Jun 21 16:05	17°♖12'08		inferior conj	7561 Jun 11 09:39	24°♕40'42	2°14'06
inferior conj	7560 Jun 29 06:48	12°♖41'18	1°02'24	minimum elong	7561 Jun 11 12:48	24°♕33'26	2°13'08
minimum elong	7560 Jun 29 08:56	12°♖37'05	1°01'32	min. Earth dist.	7561 Jun 14 17:13	21°♕38'52	0.60182 AU
min. Earth dist.	7560 Jul 02 15:33	10°♖02'50	0.57990 AU	morning rise	7561 Jun 18 09:45	18°♕50'50	
desc. node	7560 Jul 02 20:35	9°♖53'26		desc. node	7561 Jun 19 17:38	18°♕06'06	
morning rise	7560 Jul 06 22:23	7°♖18'41		direct	7561 Jun 24 22:08	16°♕48'16	

morning max el	7561 Jul 09 06:22	24° $\Pi$ 44'05	27°44'13	direct	7562 Jun 07 10:05	28° $\mathcal{B}$ 40'03	
	7561 Jul 14 01:46	0° $\mathfrak{D}$			7562 Jun 12 17:32	0° $\Pi$	
	7561 Aug 02 17:08	0° $\mathcal{O}$		morning max el	7562 Jun 21 12:20	6° $\Pi$ 42'19	27°53'56
morning set	7561 Aug 10 10:45	15° $\mathcal{O}$ 11'19			7562 Jul 09 05:06	0° $\mathfrak{D}$	
asc. node	7561 Aug 11 14:54	17° $\mathcal{O}$ 38'50		morning set	7562 Jul 25 11:02	29° $\mathfrak{D}$ 18'43	
max. Earth dist.	7561 Aug 16 15:41	28° $\mathcal{O}$ 32'14	1.31777 AU		7562 Jul 25 19:09	0° $\mathcal{O}$	
	7561 Aug 17 07:36	0° $\mathfrak{P}$		asc. node	7562 Jul 29 11:55	7° $\mathcal{O}$ 42'38	
				max. Earth dist.	7562 Jul 30 22:02	10° $\mathcal{O}$ 45'14	1.32251 AU
superior conj	7561 Aug 17 15:36	0° $\mathfrak{P}$ 44'12	0°58'26				
minimum elong	7561 Aug 17 13:27	0° $\mathfrak{P}$ 32'20	0°58'00	superior conj	7562 Aug 02 00:45	15° $\mathcal{O}$ 20'07	0°35'33
evening rise	7561 Aug 24 09:49	15° $\mathfrak{P}$ 33'01		minimum elong	7562 Aug 01 23:12	15° $\mathcal{O}$ 11'38	0°35'09
	7561 Aug 31 13:09	0° $\mathfrak{D}$		evening rise	7562 Aug 08 21:22	0° $\mathfrak{P}$ 16'20	
desc. node	7561 Sep 15 16:40	23° $\mathfrak{D}$ 39'59			7562 Aug 08 18:19	0° $\mathfrak{P}$	
evening max el	7561 Sep 20 21:19	29° $\mathfrak{D}$ 18'50	25°37'26		7562 Aug 25 05:29	0° $\mathfrak{D}$	
	7561 Sep 21 15:01	0° $\mathfrak{M}$		evening max el	7562 Sep 02 10:14	9° $\mathfrak{D}$ 49'51	24°05'53
retrograde	7561 Oct 04 19:43	6° $\mathfrak{M}$ 22'18		desc. node	7562 Sep 02 13:45	9° $\mathfrak{D}$ 58'16	
evening set	7561 Oct 10 21:47	4° $\mathfrak{M}$ 55'48		retrograde	7562 Sep 16 03:42	16° $\mathfrak{D}$ 42'55	
min. Earth dist.	7561 Oct 15 09:33	2° $\mathfrak{M}$ 18'47	0.57979 AU	evening set	7562 Sep 20 22:33	15° $\mathfrak{D}$ 52'30	
inferior conj	7561 Oct 18 11:21	0° $\mathfrak{M}$ 09'29	-5°11'57	min. Earth dist.	7562 Sep 26 20:59	12° $\mathfrak{D}$ 56'28	0.56203 AU
minimum elong	7561 Oct 18 16:41	0° $\mathfrak{M}$ 00'05	5°11'08	inferior conj	7562 Sep 29 05:41	11° $\mathfrak{D}$ 29'14	-5°31'12
	7561 Oct 18 16:44	30° $\mathfrak{R}$ $\mathfrak{D}$		minimum elong	7562 Sep 29 05:16	11° $\mathfrak{D}$ 29'53	5°31'11
morning rise	7561 Oct 26 13:55	25° $\mathfrak{D}$ 50'38		morning rise	7562 Oct 07 14:10	7° $\mathfrak{D}$ 30'33	
direct	7561 Oct 28 22:59	25° $\mathfrak{D}$ 33'03		direct	7562 Oct 10 07:29	7° $\mathfrak{D}$ 11'18	
morning max el	7561 Nov 06 13:19	29° $\mathfrak{D}$ 40'31	18°48'37	morning max el	7562 Oct 20 07:13	11° $\mathfrak{D}$ 53'00	19°50'15
	7561 Nov 06 21:19	0° $\mathfrak{M}$		asc. node	7562 Oct 25 11:23	17° $\mathfrak{D}$ 57'07	
asc. node	7561 Nov 07 14:22	0° $\mathfrak{M}$ 43'58			7562 Nov 01 18:17	0° $\mathfrak{M}$	
morning set	7561 Nov 22 22:40	25° $\mathfrak{M}$ 57'09		morning set	7562 Nov 07 02:40	10° $\mathfrak{M}$ 29'50	
	7561 Nov 25 00:11	0° $\mathfrak{X}$					
superior conj	7561 Dec 01 11:42	12° $\mathfrak{X}$ 32'59	1°16'08	superior conj	7562 Nov 14 21:52	26° $\mathfrak{M}$ 17'33	1°32'22
minimum elong	7561 Dec 01 15:01	12° $\mathfrak{X}$ 48'41	1°15'51	minimum elong	7562 Nov 15 00:07	26° $\mathfrak{M}$ 28'42	1°32'17
max. Earth dist.	7561 Dec 08 14:17	25° $\mathfrak{X}$ 34'41	1.39395 AU		7562 Nov 16 18:58	0° $\mathfrak{X}$	
	7561 Dec 11 03:04	0° $\mathfrak{Z}$		max. Earth dist.	7562 Nov 20 19:58	7° $\mathfrak{X}$ 44'18	1.37265 AU
evening rise	7561 Dec 12 13:10	2° $\mathfrak{Z}$ 25'52		evening rise	7562 Nov 24 14:13	14° $\mathfrak{X}$ 37'43	
desc. node	7561 Dec 12 15:43	2° $\mathfrak{Z}$ 36'39		desc. node	7562 Nov 29 12:44	23° $\mathfrak{X}$ 13'18	
	7561 Dec 30 05:17	0° $\mathfrak{X}$			7562 Dec 03 15:23	0° $\mathfrak{Z}$	
evening max el	7562 Jan 16 16:31	21° $\mathfrak{X}$ 53'19	24°16'06		7562 Dec 24 23:30	0° $\mathfrak{X}$	
retrograde	7562 Jan 27 23:12	28° $\mathfrak{X}$ 30'18		evening max el	7562 Dec 30 05:36	5° $\mathfrak{X}$ 40'17	25°30'33
evening set	7562 Feb 02 07:52	26° $\mathfrak{X}$ 16'14		retrograde	7563 Jan 11 10:56	12° $\mathfrak{X}$ 41'48	
asc. node	7562 Feb 03 13:36	25° $\mathfrak{X}$ 06'01		evening set	7563 Jan 17 08:32	10° $\mathfrak{X}$ 15'43	
min. Earth dist.	7562 Feb 07 00:13	20° $\mathfrak{X}$ 53'57	0.68038 AU	asc. node	7563 Jan 21 10:40	5° $\mathfrak{X}$ 50'17	
inferior conj	7562 Feb 07 19:46	19° $\mathfrak{X}$ 48'06	1°22'10	min. Earth dist.	7563 Jan 21 17:43	5° $\mathfrak{X}$ 27'59	0.67362 AU
minimum elong	7562 Feb 07 18:00	19° $\mathfrak{X}$ 54'03	1°21'35	inferior conj	7563 Jan 23 00:31	3° $\mathfrak{X}$ 49'10	0°31'26
morning rise	7562 Feb 13 04:13	13° $\mathfrak{X}$ 46'23		minimum elong	7563 Jan 22 23:44	3° $\mathfrak{X}$ 51'40	0°31'13
direct	7562 Feb 17 01:36	12° $\mathfrak{X}$ 20'00			7563 Jan 26 05:09	30° $\mathfrak{R}$ $\mathfrak{Z}$	
morning max el	7562 Feb 24 19:16	16° $\mathfrak{X}$ 42'48	20°12'54	morning rise	7563 Jan 28 15:19	27° $\mathfrak{Z}$ 55'27	
	7562 Mar 07 09:06	0° $\mathfrak{X}$		direct	7563 Feb 01 00:45	26° $\mathfrak{Z}$ 49'15	
desc. node	7562 Mar 10 15:11	4° $\mathfrak{X}$ 40'37			7563 Feb 07 07:24	0° $\mathfrak{X}$	
morning set	7562 Mar 24 14:03	25° $\mathfrak{X}$ 42'30		morning max el	7563 Feb 08 00:26	0° $\mathfrak{X}$ 40'43	19°11'58
	7562 Mar 27 08:25	0° $\mathfrak{Y}$		greatest brilliancy	7563 Feb 21 09:14	18° $\mathfrak{X}$ 33'09	-0.7m
max. Earth dist.	7562 Apr 03 14:10	11° $\mathfrak{Y}$ 25'55	1.43843 AU	desc. node	7563 Feb 25 12:09	24° $\mathfrak{X}$ 49'22	
					7563 Feb 28 20:54	0° $\mathfrak{X}$	
superior conj	7562 Apr 09 11:52	21° $\mathfrak{Y}$ 00'44	-2°11'16	morning set	7563 Mar 03 14:57	4° $\mathfrak{X}$ 15'12	
minimum elong	7562 Apr 09 12:25	21° $\mathfrak{Y}$ 02'59	2°11'18	max. Earth dist.	7563 Mar 17 05:00	25° $\mathfrak{X}$ 26'27	1.45018 AU
	7562 Apr 14 21:16	0° $\mathfrak{X}$					
evening rise	7562 Apr 22 06:49	12° $\mathfrak{X}$ 40'54		superior conj	7563 Mar 20 06:20	0° $\mathfrak{Y}$ 16'11	-2°03'01
	7562 May 02 11:59	0° $\mathfrak{II}$		minimum elong	7563 Mar 20 00:01	29° $\mathfrak{X}$ 51'07	2°02'41
asc. node	7562 May 02 12:40	0° $\mathfrak{II}$ 02'41			7563 Mar 20 02:15	0° $\mathfrak{Y}$	
evening max el	7562 May 09 18:54	9° $\mathfrak{II}$ 43'57	18°07'24	evening rise	7563 Apr 03 19:00	23° $\mathfrak{Y}$ 46'19	
retrograde	7562 May 16 05:04	13° $\mathfrak{II}$ 04'51			7563 Apr 07 13:33	0° $\mathfrak{X}$	
evening set	7562 May 18 23:55	12° $\mathfrak{II}$ 25'48		asc. node	7563 Apr 19 09:43	18° $\mathfrak{X}$ 29'43	
inferior conj	7562 May 25 06:05	7° $\mathfrak{II}$ 15'23	2°58'31	evening max el	7563 Apr 23 07:45	23° $\mathfrak{X}$ 10'00	18°24'34
minimum elong	7562 May 25 08:31	7° $\mathfrak{II}$ 08'58	2°57'59	retrograde	7563 Apr 29 18:16	26° $\mathfrak{X}$ 38'31	
min. Earth dist.	7562 May 28 03:18	4° $\mathfrak{II}$ 14'45	0.62405 AU	evening set	7563 May 02 20:11	25° $\mathfrak{X}$ 46'07	
morning rise	7562 May 31 15:23	1° $\mathfrak{II}$ 09'14		inferior conj	7563 May 08 15:57	20° $\mathfrak{X}$ 17'38	3°20'37
	7562 Jun 02 10:45	30° $\mathfrak{R}$ $\mathfrak{X}$		minimum elong	7563 May 08 17:02	20° $\mathfrak{X}$ 14'27	3°20'27
desc. node	7562 Jun 06 14:40	28° $\mathfrak{X}$ 42'06		min. Earth dist.	7563 May 10 22:33	17° $\mathfrak{X}$ 38'45	0.64405 AU
				morning rise	7563 May 14 12:59	14° $\mathfrak{X}$ 03'25	



direct	7563 May 21 06:12	11°♄19'03			7564 Apr 24 10:44	30°♄♂	
desc. node	7563 May 24 11:41	11°♄52'12		morning rise	7564 Apr 26 23:29	27°♄23'26	
morning max el	7563 Jun 03 21:44	19°♄17'15	27°27'26	direct	7564 May 03 09:13	24°♄36'23	
	7563 Jun 12 23:54	0°♄		desc. node	7564 May 10 08:40	27°♄10'36	
	7563 Jul 02 05:00	0°♄			7564 May 13 22:20	0°♄	
morning set	7563 Jul 09 03:05	12°♄59'26		morning max el	7564 May 16 08:08	2°♄18'08	26°30'57
max. Earth dist.	7563 Jul 13 21:03	22°♄35'03	1.33199 AU		7564 Jun 06 04:24	0°♄	
asc. node	7563 Jul 16 08:56	27°♄49'04		morning set	7564 Jun 21 07:33	26°♄03'38	
					7564 Jun 23 09:07	0°♄	
superior conj	7563 Jul 17 05:44	29°♄39'34	0°08'51	max. Earth dist.	7564 Jun 25 09:42	3°♄57'04	1.34633 AU
minimum elong	7563 Jul 17 05:18	29°♄37'13	0°08'39				
behind sun begin	7563 Jul 17 00:40	29°♄12'34		superior conj	7564 Jun 30 04:10	13°♄35'18	-0°20'53
behind sun end	7563 Jul 17 09:55	0°♄01'53		minimum elong	7564 Jun 30 05:20	13°♄41'20	0°20'45
	7563 Jul 17 09:34	0°♄		asc. node	7564 Jul 02 05:56	17°♄53'35	
evening rise	7563 Jul 24 08:45	14°♄55'49		evening rise	7564 Jul 07 17:57	29°♄24'42	
	7563 Jul 31 21:37	0°♄			7564 Jul 08 00:45	0°♄	
evening max el	7563 Aug 14 22:55	20°♄04'57	22°27'00		7564 Jul 26 04:52	0°♄	
desc. node	7563 Aug 20 10:49	24°♄22'43		evening max el	7564 Jul 26 19:47	0°♄37'40	20°56'15
retrograde	7563 Aug 27 23:09	26°♄33'46		desc. node	7564 Aug 06 07:53	6°♄20'34	
evening set	7563 Aug 31 05:51	26°♄10'07		retrograde	7564 Aug 07 11:38	6°♄23'52	
min. Earth dist.	7563 Sep 08 05:40	22°♄39'48	0.55030 AU	evening set	7564 Aug 09 16:24	6°♄12'22	
inferior conj	7563 Sep 09 06:18	22°♄05'00	-5°01'40	inferior conj	7564 Aug 18 22:48	2°♄15'14	-3°38'49
minimum elong	7563 Sep 08 22:53	22°♄15'29	5°00'25	minimum elong	7564 Aug 18 13:40	2°♄28'10	3°36'02
morning rise	7563 Sep 17 17:43	18°♄16'42		min. Earth dist.	7564 Aug 19 14:53	1°♄52'27	0.54719 AU
direct	7563 Sep 20 23:07	17°♄53'10			7564 Aug 23 02:30	30°♄♂	
morning max el	7563 Oct 02 12:17	23°♄17'40	21°13'38	morning rise	7564 Aug 27 11:11	28°♄18'09	
	7563 Oct 08 07:58	0°♄		direct	7564 Aug 31 07:08	27°♄46'43	
asc. node	7563 Oct 12 08:24	6°♄02'44			7564 Sep 08 00:11	0°♄	
morning set	7563 Oct 22 11:14	25°♄14'33		morning max el	7564 Sep 13 06:20	3°♄58'17	22°53'55
	7563 Oct 24 17:50	0°♄		asc. node	7564 Sep 28 05:23	24°♄47'28	
					7564 Sep 30 23:42	0°♄	
superior conj	7563 Oct 29 18:40	10°♄32'37	1°40'28	morning set	7564 Oct 05 22:15	10°♄04'16	
minimum elong	7563 Oct 29 19:32	10°♄37'06	1°40'31				
max. Earth dist.	7563 Nov 03 06:19	19°♄39'04	1.35343 AU	superior conj	7564 Oct 12 22:43	25°♄07'18	1°41'28
evening rise	7563 Nov 07 09:19	27°♄38'01		minimum elong	7564 Oct 12 22:17	25°♄05'01	1°41'31
	7563 Nov 08 15:41	0°♄			7564 Oct 15 05:55	0°♄	
desc. node	7563 Nov 16 09:47	13°♄38'53		max. Earth dist.	7564 Oct 16 00:24	1°♄36'45	1.33772 AU
	7563 Nov 26 22:55	0°♄		evening rise	7564 Oct 20 18:25	11°♄15'42	
evening max el	7563 Dec 12 18:49	19°♄24'27	26°32'10		7564 Oct 31 00:07	0°♄	
retrograde	7563 Dec 25 17:18	26°♄39'31		desc. node	7564 Nov 02 06:50	3°♄47'07	
evening set	7564 Jan 01 03:21	24°♄04'55			7564 Nov 21 10:18	0°♄	
min. Earth dist.	7564 Jan 05 06:06	19°♄52'08	0.66322 AU	evening max el	7564 Nov 24 07:37	2°♄56'03	27°13'49
inferior conj	7564 Jan 07 00:27	17°♄45'17	-0°26'20	retrograde	7564 Dec 07 17:51	10°♄15'50	
minimum elong	7564 Jan 07 01:10	17°♄43'07	0°25'55	evening set	7564 Dec 14 14:10	7°♄38'40	
asc. node	7564 Jan 08 07:43	16°♄13'00		min. Earth dist.	7564 Dec 18 11:09	4°♄00'04	0.64922 AU
morning rise	7564 Jan 12 23:49	12°♄02'00		inferior conj	7564 Dec 20 17:17	1°♄31'30	-1°30'06
direct	7564 Jan 15 22:54	11°♄12'50		minimum elong	7564 Dec 20 19:59	1°♄24'04	1°28'53
morning max el	7564 Jan 22 12:18	14°♄45'04	18°27'05		7564 Dec 22 03:11	30°♄♂	
	7564 Feb 02 18:08	0°♄		asc. node	7564 Dec 25 04:44	27°♄11'30	
morning set	7564 Feb 11 14:51	14°♄01'10		morning rise	7564 Dec 27 03:10	26°♄01'27	
desc. node	7564 Feb 12 09:06	15°♄13'46		direct	7564 Dec 29 17:52	25°♄25'34	
	7564 Feb 21 17:12	0°♄		morning max el	7565 Jan 05 04:23	28°♄49'27	17°58'59
					7565 Jan 06 07:13	0°♄	
superior conj	7564 Feb 27 11:09	9°♄01'04	-1°34'50	morning set	7565 Jan 22 20:24	25°♄15'30	
minimum elong	7564 Feb 27 01:33	8°♄23'28	1°33'51		7565 Jan 25 17:05	0°♄	
max. Earth dist.	7564 Feb 28 00:03	9°♄51'35	1.45479 AU	desc. node	7565 Jan 29 06:05	5°♄49'12	
	7564 Mar 11 20:05	0°♄					
evening rise	7564 Mar 14 07:46	3°♄55'29		superior conj	7565 Feb 05 21:33	18°♄08'43	-0°52'53
greatest brilliancy	7564 Mar 23 23:33	19°♄08'10	-0.8m	minimum elong	7565 Feb 05 15:20	17°♄43'58	0°51'59
	7564 Mar 31 06:23	0°♄		max. Earth dist.	7565 Feb 09 19:43	24°♄21'14	1.45189 AU
asc. node	7564 Apr 05 06:47	6°♄14'33			7565 Feb 13 10:11	0°♄	
evening max el	7564 Apr 05 17:52	6°♄43'14	18°59'26	evening rise	7565 Feb 22 01:32	13°♄23'28	
retrograde	7564 Apr 12 13:22	10°♄32'01			7565 Mar 04 22:38	0°♄	
evening set	7564 Apr 15 22:38	9°♄25'31		greatest brilliancy	7565 Mar 08 05:09	4°♄52'29	-0.6m
inferior conj	7564 Apr 21 11:33	3°♄40'34	3°25'19	evening max el	7565 Mar 19 23:24	20°♄19'37	19°50'37
minimum elong	7564 Apr 21 11:17	3°♄41'25	3°25'14	asc. node	7565 Mar 23 03:50	23°♄04'48	
min. Earth dist.	7564 Apr 23 02:38	1°♄36'55	0.66037 AU	retrograde	7565 Mar 27 11:23	24°♄39'21	

evening set	7565 Mar 31 04:47	23° $\Upsilon$ 18'18		evening set	7566 Mar 15 12:36	7° $\Upsilon$ 19'07	
inferior conj	7565 Apr 05 13:49	17° $\Upsilon$ 18'52	3°16'18	inferior conj	7566 Mar 20 20:10	1° $\Upsilon$ 07'35	2°56'06
minimum elong	7565 Apr 05 12:28	17° $\Upsilon$ 23'22	3°16'06	minimum elong	7566 Mar 20 18:08	1° $\Upsilon$ 14'36	2°55'41
min. Earth dist.	7565 Apr 06 14:12	15° $\Upsilon$ 57'10	0.67237 AU	min. Earth dist.	7566 Mar 21 07:07	0° $\Upsilon$ 29'46	0.68001 AU
morning rise	7565 Apr 10 19:53	11° $\Upsilon$ 02'01			7566 Mar 21 15:45	30° $\Re$ $\Upsilon$	
direct	7565 Apr 16 18:17	8° $\Upsilon$ 23'05		morning rise	7566 Mar 25 23:26	24° $\Upsilon$ 53'05	
desc. node	7565 Apr 27 05:38	14° $\Upsilon$ 05'25		direct	7566 Mar 31 08:26	22° $\Upsilon$ 30'20	
morning max el	7565 Apr 28 17:45	15° $\Upsilon$ 33'40	25°13'34	morning max el	7566 Apr 11 02:43	28° $\Upsilon$ 55'48	23°45'23
	7565 May 10 14:51	0° $\Upsilon$			7566 Apr 12 03:31	0° $\Upsilon$	
	7565 May 30 01:52	0° $\Upsilon$		desc. node	7566 Apr 14 02:36	2° $\Upsilon$ 09'36	
morning set	7565 Jun 03 20:08	8° $\Upsilon$ 20'20			7566 May 04 09:13	0° $\Upsilon$	
max. Earth dist.	7565 Jun 07 11:46	15° $\Upsilon$ 01'21	1.36501 AU	morning set	7566 May 16 11:21	19° $\Upsilon$ 34'07	
				max. Earth dist.	7566 May 20 07:36	26° $\Upsilon$ 14'19	1.38669 AU
					7566 May 22 10:14	0° $\Upsilon$	
superior conj	7565 Jun 13 17:16	27° $\Upsilon$ 00'30	-0°52'12				
minimum elong	7565 Jun 13 20:23	27° $\Upsilon$ 15'54	0°51'43				
	7565 Jun 15 05:21	0° $\Upsilon$		superior conj	7566 May 27 17:24	9° $\Upsilon$ 45'48	-1°22'55
asc. node	7565 Jun 19 02:58	7° $\Upsilon$ 52'44		minimum elong	7566 May 27 22:20	10° $\Upsilon$ 09'02	1°22'18
evening rise	7565 Jun 21 22:48	13° $\Upsilon$ 37'06		evening rise	7566 Jun 05 20:32	27° $\Upsilon$ 24'58	
	7565 Jun 30 13:32	0° $\Upsilon$		asc. node	7566 Jun 06 00:00	27° $\Upsilon$ 41'55	
evening max el	7565 Jul 09 05:39	11° $\Omega$ 51'41	19°43'01		7566 Jun 07 04:23	0° $\Upsilon$	
retrograde	7565 Jul 19 04:35	16° $\Omega$ 45'49		evening max el	7566 Jun 22 03:45	23° $\Upsilon$ 49'59	18°50'23
evening set	7565 Jul 21 01:12	16° $\Omega$ 36'18		retrograde	7566 Jun 30 12:46	27° $\Upsilon$ 58'15	
desc. node	7565 Jul 24 04:55	15° $\Omega$ 40'30		evening set	7566 Jul 02 13:02	27° $\Upsilon$ 44'52	
inferior conj	7565 Jul 29 22:01	12° $\Omega$ 33'39	-1°44'17	inferior conj	7566 Jul 10 15:18	23° $\Upsilon$ 25'59	0°07'59
minimum elong	7565 Jul 29 17:14	12° $\Omega$ 41'05	1°42'33	minimum elong	7566 Jul 10 15:36	23° $\Upsilon$ 25'25	0°07'46
min. Earth dist.	7565 Aug 01 02:56	11° $\Omega$ 11'28	0.55374 AU	transit middle	7566 Jul 10 15:36	23° $\Upsilon$ 25'25	0°07'46
morning rise	7565 Aug 07 07:05	8° $\Omega$ 07'43		transit begin	7566 Jul 10 12:21	23° $\Upsilon$ 31'17	
direct	7565 Aug 11 21:40	7° $\Omega$ 20'38		transit end	7566 Jul 10 18:52	23° $\Upsilon$ 19'33	
morning max el	7565 Aug 25 19:17	14° $\Omega$ 15'24	24°39'17	desc. node	7566 Jul 11 01:57	23° $\Upsilon$ 06'44	
	7565 Sep 07 04:04	0° $\Omega$		min. Earth dist.	7566 Jul 13 18:50	21° $\Upsilon$ 10'43	0.56868 AU
asc. node	7565 Sep 15 02:23	14° $\Omega$ 01'44		morning rise	7566 Jul 18 14:46	18° $\Upsilon$ 23'20	
morning set	7565 Sep 20 09:59	24° $\Omega$ 53'59		direct	7566 Jul 24 02:24	17° $\Upsilon$ 10'41	
	7565 Sep 22 18:50	0° $\Omega$		morning max el	7566 Aug 07 09:43	24° $\Upsilon$ 37'17	26°13'32
					7566 Aug 12 08:33	0° $\Omega$	
superior conj	7565 Sep 27 07:24	9° $\Omega$ 53'46	1°36'16		7566 Aug 31 03:54	0° $\Omega$	
minimum elong	7565 Sep 27 05:58	9° $\Omega$ 45'54	1°36'11	asc. node	7566 Sep 01 23:23	3° $\Omega$ 37'53	
max. Earth dist.	7565 Sep 29 02:25	13° $\Omega$ 47'46	1.32632 AU	morning set	7566 Sep 04 20:49	9° $\Omega$ 39'13	
evening rise	7565 Oct 04 13:59	25° $\Omega$ 21'34					
	7565 Oct 06 21:25	0° $\Omega$		superior conj	7566 Sep 11 18:37	24° $\Omega$ 45'23	1°25'29
desc. node	7565 Oct 20 03:54	23° $\Omega$ 30'25		minimum elong	7566 Sep 11 16:33	24° $\Omega$ 33'56	1°25'14
	7565 Oct 24 11:37	0° $\Omega$		max. Earth dist.	7566 Sep 12 10:24	26° $\Omega$ 12'39	1.31946 AU
evening max el	7565 Nov 06 18:38	16° $\Omega$ 03'39	27°28'44		7566 Sep 14 03:42	0° $\Omega$	
retrograde	7565 Nov 20 12:00	23° $\Omega$ 21'22		evening rise	7566 Sep 18 17:02	9° $\Omega$ 47'36	
evening set	7565 Nov 27 14:13	20° $\Omega$ 50'22			7566 Sep 29 04:36	0° $\Omega$	
min. Earth dist.	7565 Dec 01 06:59	17° $\Omega$ 42'36	0.63197 AU	desc. node	7566 Oct 07 00:58	12° $\Omega$ 38'49	
inferior conj	7565 Dec 04 00:19	15° $\Omega$ 01'16	-2°37'54	evening max el	7566 Oct 20 01:40	28° $\Omega$ 35'07	27°11'38
minimum elong	7565 Dec 04 05:13	14° $\Omega$ 49'07	2°35'56		7566 Oct 21 15:14	0° $\Omega$	
morning rise	7565 Dec 10 22:07	9° $\Omega$ 47'24		retrograde	7566 Nov 02 22:38	5° $\Omega$ 46'58	
asc. node	7565 Dec 12 01:46	9° $\Omega$ 27'58		evening set	7566 Nov 09 23:54	3° $\Omega$ 33'00	
direct	7565 Dec 13 06:47	9° $\Omega$ 20'57		min. Earth dist.	7566 Nov 13 16:26	0° $\Omega$ 48'22	0.61226 AU
morning max el	7565 Dec 19 21:41	12° $\Omega$ 45'52	17°48'15		7566 Nov 14 15:01	30° $\Re$ $\Omega$	
	7565 Dec 31 16:39	0° $\Omega$		inferior conj	7566 Nov 16 18:26	28° $\Omega$ 06'53	-3°45'38
morning set	7566 Jan 05 03:27	7° $\Omega$ 43'30		minimum elong	7566 Nov 17 01:08	27° $\Omega$ 52'12	3°43'26
desc. node	7566 Jan 16 03:04	26° $\Omega$ 31'24		morning rise	7566 Nov 24 04:34	23° $\Omega$ 12'17	
				direct	7566 Nov 26 10:16	22° $\Omega$ 51'39	
superior conj	7566 Jan 17 05:14	28° $\Omega$ 19'59	-0°07'54	asc. node	7566 Nov 28 22:48	23° $\Omega$ 18'55	
minimum elong	7566 Jan 17 04:24	28° $\Omega$ 16'35	0°07'40	morning max el	7566 Dec 03 12:57	26° $\Omega$ 26'04	17°55'52
behind sun begin	7566 Jan 16 20:04	27° $\Omega$ 42'04			7566 Dec 06 14:59	0° $\Omega$	
behind sun end	7566 Jan 17 12:44	28° $\Omega$ 51'03		morning set	7566 Dec 19 05:27	21° $\Omega$ 05'35	
	7566 Jan 18 05:28	0° $\Omega$			7566 Dec 24 02:47	0° $\Omega$	
max. Earth dist.	7566 Jan 23 13:11	8° $\Omega$ 38'06	1.44198 AU				
evening rise	7566 Feb 01 12:28	22° $\Omega$ 42'14		superior conj	7566 Dec 29 14:49	9° $\Omega$ 46'01	0°31'51
	7566 Feb 06 07:08	0° $\Omega$		minimum elong	7566 Dec 29 17:24	9° $\Omega$ 57'16	0°31'34
	7566 Feb 27 10:55	0° $\Omega$		desc. node	7567 Jan 03 00:06	17° $\Omega$ 17'08	
evening max el	7566 Mar 02 23:29	3° $\Omega$ 57'15	20°55'38	max. Earth dist.	7567 Jan 06 02:52	22° $\Omega$ 28'41	1.42621 AU
asc. node	7566 Mar 10 00:55	8° $\Omega$ 45'21			7567 Jan 10 18:13	0° $\Omega$	
retrograde	7566 Mar 11 09:51	8° $\Omega$ 55'06		evening rise	7567 Jan 12 08:09	2° $\Omega$ 30'31	

	7567 Jan 30 17:56	0° $\text{H}$			7568 Jan 26 02:44	0° $\text{H}$	
evening max el	7567 Feb 13 18:31	17° $\text{H}$ 37'11	22°10'36	evening max el	7568 Jan 27 09:44	1° $\text{H}$ 19'50	23°30'26
retrograde	7567 Feb 23 06:56	23° $\text{H}$ 15'50		retrograde	7568 Feb 07 01:13	7° $\text{H}$ 37'03	
asc. node	7567 Feb 24 21:58	23° $\text{H}$ 02'15		asc. node	7568 Feb 11 19:02	5° $\text{H}$ 46'42	
evening set	7567 Feb 27 20:27	21° $\text{H}$ 24'37		evening set	7568 Feb 12 02:45	5° $\text{H}$ 30'53	
inferior conj	7567 Mar 05 04:29	15° $\text{H}$ 03'50	2°26'19		7568 Feb 16 20:37	30° $\text{R}$ $\approx$	
minimum elong	7567 Mar 05 02:12	15° $\text{H}$ 11'49	2°25'42	min. Earth dist.	7568 Feb 16 23:47	29° $\approx$ 49'12	0.68264 AU
min. Earth dist.	7567 Mar 05 03:04	15° $\text{H}$ 08'48	0.68340 AU	inferior conj	7568 Feb 17 12:52	29° $\approx$ 04'23	1°47'56
morning rise	7567 Mar 10 07:47	8° $\text{H}$ 53'17		minimum elong	7568 Feb 17 10:46	29° $\approx$ 11'34	1°47'16
direct	7567 Mar 15 02:41	6° $\text{H}$ 51'31		morning rise	7568 Feb 22 18:45	22° $\approx$ 59'11	
morning max el	7567 Mar 24 13:50	12° $\text{H}$ 25'09	22°16'22	direct	7568 Feb 26 23:44	21° $\approx$ 20'06	
desc. node	7567 Mar 31 23:36	21° $\text{H}$ 04'06		morning max el	7568 Mar 06 06:45	26° $\approx$ 05'35	20°54'35
	7567 Apr 07 13:36	0° $\text{Y}$			7568 Mar 09 19:48	0° $\text{H}$	
morning set	7567 Apr 26 23:52	29° $\text{Y}$ 31'52		desc. node	7568 Mar 17 20:35	10° $\text{H}$ 34'57	
	7567 Apr 27 06:47	0° $\text{B}$			7568 Mar 31 00:47	0° $\text{Y}$	
max. Earth dist.	7567 May 02 05:06	8° $\text{B}$ 09'29	1.40900 AU	morning set	7568 Apr 05 09:52	8° $\text{Y}$ 18'08	
				max. Earth dist.	7568 Apr 13 09:35	21° $\text{Y}$ 01'40	1.42900 AU
superior conj	7567 May 10 00:10	21° $\text{B}$ 40'49	-1°49'38		7568 Apr 18 20:00	0° $\text{B}$	
minimum elong	7567 May 10 05:47	22° $\text{B}$ 05'54	1°49'12				
	7567 May 14 14:14	0° $\text{II}$		superior conj	7568 Apr 20 08:50	2° $\text{B}$ 35'10	-2°07'26
evening rise	7567 May 20 07:44	10° $\text{II}$ 39'52		minimum elong	7568 Apr 20 12:22	2° $\text{B}$ 50'07	2°07'21
asc. node	7567 May 23 21:03	17° $\text{II}$ 16'26		evening rise	7568 May 02 04:17	23° $\text{B}$ 12'17	
	7567 May 31 08:11	0° $\text{E}$			7568 May 05 23:57	0° $\text{II}$	
evening max el	7567 Jun 05 10:34	6° $\text{E}$ 24'49	18°18'14	asc. node	7568 May 09 18:06	6° $\text{II}$ 30'52	
retrograde	7567 Jun 12 16:15	10° $\text{E}$ 02'16		evening max el	7568 May 18 22:17	19° $\text{II}$ 26'31	18°05'48
evening set	7567 Jun 14 23:44	9° $\text{E}$ 40'55		retrograde	7568 May 25 12:31	22° $\text{II}$ 49'22	
inferior conj	7567 Jun 22 06:18	5° $\text{E}$ 01'25	1°36'23	evening set	7568 May 28 03:18	22° $\text{II}$ 17'19	
minimum elong	7567 Jun 22 09:10	4° $\text{E}$ 55'23	1°35'23	inferior conj	7568 Jun 03 17:11	17° $\text{II}$ 17'31	2°36'01
min. Earth dist.	7567 Jun 25 16:05	2° $\text{E}$ 10'10	0.58907 AU	minimum elong	7568 Jun 03 20:10	17° $\text{II}$ 10'13	2°35'13
desc. node	7567 Jun 27 23:00	0° $\text{E}$ 28'21		min. Earth dist.	7568 Jun 06 21:00	14° $\text{II}$ 13'39	0.61144 AU
	7567 Jun 28 16:28	30° $\text{R}$ $\text{II}$		morning rise	7568 Jun 10 10:47	11° $\text{II}$ 19'36	
morning rise	7567 Jun 29 15:27	29° $\text{II}$ 26'16		desc. node	7568 Jun 13 20:01	9° $\text{II}$ 37'18	
direct	7567 Jul 05 20:50	27° $\text{II}$ 42'00		direct	7568 Jun 17 02:45	9° $\text{II}$ 04'59	
	7567 Jul 13 08:19	0° $\text{E}$		morning max el	7568 Jul 01 08:57	17° $\text{II}$ 03'54	27°53'06
morning max el	7567 Jul 20 05:54	5° $\text{E}$ 28'54	27°21'19		7568 Jul 12 01:54	0° $\text{E}$	
	7567 Aug 07 10:02	0° $\text{Q}$			7568 Jul 30 02:00	0° $\text{Q}$	
asc. node	7567 Aug 19 20:23	23° $\text{Q}$ 28'56		morning set	7568 Aug 03 08:53	8° $\text{Q}$ 34'13	
morning set	7567 Aug 20 05:03	24° $\text{Q}$ 14'20		asc. node	7568 Aug 05 17:24	13° $\text{Q}$ 29'48	
	7567 Aug 22 21:46	0° $\text{P}$		max. Earth dist.	7568 Aug 09 06:09	21° $\text{Q}$ 06'43	1.31927 AU
superior conj	7567 Aug 27 06:25	9° $\text{P}$ 35'21	1°09'40	superior conj	7568 Aug 10 17:04	24° $\text{Q}$ 18'16	0°49'14
minimum elong	7567 Aug 27 04:09	9° $\text{P}$ 22'49	1°09'16	minimum elong	7568 Aug 10 15:06	24° $\text{Q}$ 07'28	0°48'48
max. Earth dist.	7567 Aug 26 20:54	8° $\text{P}$ 42'37	1.31712 AU		7568 Aug 13 07:04	0° $\text{P}$	
evening rise	7567 Sep 03 01:01	24° $\text{P}$ 25'31		evening rise	7568 Aug 17 11:51	9° $\text{P}$ 09'00	
	7567 Sep 05 17:01	0° $\text{L}$			7568 Aug 28 03:41	0° $\text{L}$	
	7567 Sep 23 04:55	0° $\text{L}$		desc. node	7568 Sep 09 19:06	18° $\text{L}$ 07'19	
desc. node	7567 Sep 23 22:03	0° $\text{L}$ 57'39		evening max el	7568 Sep 12 18:02	21° $\text{L}$ 11'28	25°00'23
evening max el	7567 Oct 02 01:54	10° $\text{L}$ 18'25	26°20'38	retrograde	7568 Sep 26 14:53	28° $\text{L}$ 11'14	
retrograde	7567 Oct 16 00:06	17° $\text{L}$ 24'08		evening set	7568 Oct 02 05:22	27° $\text{L}$ 00'09	
evening set	7567 Oct 22 14:28	15° $\text{L}$ 37'57		min. Earth dist.	7568 Oct 07 05:22	24° $\text{L}$ 17'31	0.57175 AU
min. Earth dist.	7567 Oct 26 15:13	13° $\text{L}$ 03'25	0.59146 AU	inferior conj	7568 Oct 10 01:58	22° $\text{L}$ 24'20	-5°25'00
inferior conj	7567 Oct 29 20:00	10° $\text{L}$ 37'36	-4°45'42	minimum elong	7568 Oct 10 05:20	22° $\text{L}$ 18'45	5°24'42
minimum elong	7567 Oct 30 02:47	10° $\text{L}$ 24'39	4°44'11	morning rise	7568 Oct 18 07:34	18° $\text{L}$ 14'57	
morning rise	7567 Nov 06 17:21	6° $\text{L}$ 05'13		direct	7568 Oct 20 19:47	17° $\text{L}$ 56'53	
direct	7567 Nov 09 00:02	5° $\text{L}$ 47'13		morning max el	7568 Oct 29 23:09	22° $\text{L}$ 17'08	19°12'08
asc. node	7567 Nov 15 19:50	8° $\text{L}$ 39'12		asc. node	7568 Nov 01 16:51	25° $\text{L}$ 15'33	
morning max el	7567 Nov 16 22:36	9° $\text{L}$ 39'40	18°23'16		7568 Nov 05 03:50	0° $\text{L}$	
	7567 Nov 30 04:41	0° $\text{J}$		morning set	7568 Nov 15 20:52	19° $\text{L}$ 26'32	
morning set	7567 Dec 02 20:40	5° $\text{J}$ 03'54			7568 Nov 21 04:09	0° $\text{J}$	
superior conj	7567 Dec 11 23:15	22° $\text{J}$ 17'05	1°02'42	superior conj	7568 Nov 24 01:27	5° $\text{J}$ 39'01	1°24'05
minimum elong	7567 Dec 12 02:47	22° $\text{J}$ 33'19	1°02'20	minimum elong	7568 Nov 24 04:23	5° $\text{J}$ 53'12	1°23'53
	7567 Dec 16 05:50	0° $\text{Z}$		max. Earth dist.	7568 Nov 30 17:35	18° $\text{J}$ 09'38	1.38475 AU
max. Earth dist.	7567 Dec 19 11:54	5° $\text{Z}$ 40'24	1.40634 AU	evening rise	7568 Dec 04 11:54	24° $\text{J}$ 50'13	
desc. node	7567 Dec 20 21:07	8° $\text{Z}$ 02'11		desc. node	7568 Dec 06 18:09	28° $\text{J}$ 43'00	
evening rise	7567 Dec 23 22:58	13° $\text{Z}$ 10'59			7568 Dec 07 12:23	0° $\text{Z}$	
	7568 Jan 03 14:58	0° $\approx$			7568 Dec 27 07:41	0° $\approx$	

evening max el	7569 Jan 08 22:56	15°05'06	24°48'51	desc. node	7569 Nov 23 15:10	19°15'38	
retrograde	7569 Jan 20 15:40	21°53'50			7569 Nov 30 06:50	0°	
evening set	7569 Jan 26 05:57	19°34'01		evening max el	7569 Dec 22 11:49	28°51'12	25°58'49
asc. node	7569 Jan 28 16:06	17°06'13			7569 Dec 23 16:56	0°	
min. Earth dist.	7569 Jan 30 19:02	14°26'41	0.67796 AU	retrograde	7570 Jan 04 01:22	6°00'45	
inferior conj	7569 Jan 31 19:27	13°05'58	1°01'33	evening set	7570 Jan 10 04:23	3°30'15	
minimum elong	7569 Jan 31 18:02	13°10'38	1°01'05		7570 Jan 13 14:02	30°	
morning rise	7569 Feb 06 06:21	7°07'42		min. Earth dist.	7570 Jan 14 10:39	28°57'26	0.66954 AU
direct	7569 Feb 09 22:26	5°50'22		inferior conj	7570 Jan 15 22:24	27°05'43	0°07'46
morning max el	7569 Feb 17 07:32	9°58'10	19°45'10	minimum elong	7570 Jan 15 22:11	27°06'21	0°07'46
greatest brilliancy	7569 Mar 02 02:56	26°40'07	-0.6m	transit middle	7570 Jan 15 22:11	27°06'21	0°07'46
	7569 Mar 04 08:59	0°		transit begin	7570 Jan 15 19:42	27°14'10	
desc. node	7569 Mar 04 17:34	0°32'00		transit end	7570 Jan 16 00:41	26°58'34	
morning set	7569 Mar 15 06:58	16°35'11		asc. node	7570 Jan 15 13:08	27°34'46	
	7569 Mar 23 21:52	0°		morning rise	7570 Jan 21 16:35	21°16'14	
max. Earth dist.	7569 Mar 26 21:06	4°41'29	1.44420 AU	direct	7570 Jan 24 21:17	20°17'54	
				morning max el	7570 Jan 31 15:52	24°00'09	18°50'55
superior conj	7569 Mar 31 16:28	12°23'26	-2°10'15		7570 Feb 05 17:04	0°	
minimum elong	7569 Mar 31 14:09	12°14'03	2°10'13	desc. node	7570 Feb 19 14:31	20°48'17	
	7569 Apr 11 08:28	0°		morning set	7570 Feb 22 15:44	25°34'07	
evening rise	7569 Apr 14 05:29	4°51'44			7570 Feb 25 11:46	0°	
asc. node	7569 Apr 26 15:09	25°17'46		max. Earth dist.	7570 Mar 09 13:35	18°53'10	1.45296 AU
	7569 Apr 30 00:52	0°					
evening max el	7569 May 02 11:31	2°45'37	18°12'23	superior conj	7570 Mar 11 03:16	21°21'04	-1°53'20
retrograde	7569 May 08 20:51	6°08'30		minimum elong	7570 Mar 10 18:43	20°47'30	1°52'42
evening set	7569 May 11 18:36	5°24'00			7570 Mar 16 14:47	0°	
inferior conj	7569 May 17 19:52	0°05'32	3°10'19	evening rise	7570 Mar 26 07:41	15°32'51	
minimum elong	7569 May 17 21:45	0°00'18	3°09'57		7570 Apr 04 06:45	0°	
	7569 May 17 21:52	30°		asc. node	7570 Apr 13 12:12	13°28'42	
min. Earth dist.	7569 May 20 11:04	27°12'01	0.63290 AU	evening max el	7570 Apr 15 23:28	16°15'42	18°37'16
morning rise	7569 May 23 23:33	23°54'49		retrograde	7570 Apr 22 12:59	19°51'37	
direct	7569 May 30 18:17	21°17'49		evening set	7570 Apr 25 17:51	18°53'30	
desc. node	7569 May 31 17:03	21°20'39		inferior conj	7570 May 01 10:20	13°17'59	3°24'28
morning max el	7569 Jun 13 17:00	29°20'14	27°46'49	minimum elong	7570 May 01 10:49	13°16'30	3°24'22
	7569 Jun 14 08:36	0°		min. Earth dist.	7570 May 03 10:24	10°52'31	0.65150 AU
	7569 Jul 06 00:17	0°		morning rise	7570 May 07 03:04	7°01'48	
morning set	7569 Jul 18 06:00	22°31'33		direct	7570 May 13 17:42	4°14'31	
	7569 Jul 21 21:34	0°		desc. node	7570 May 18 14:03	5°29'26	
max. Earth dist.	7569 Jul 23 09:55	3°11'27	1.32599 AU	morning max el	7570 May 27 03:09	12°08'16	27°06'27
asc. node	7569 Jul 23 14:24	3°35'17			7570 Jun 10 09:25	0°	
					7570 Jun 28 13:53	0°	
superior conj	7569 Jul 26 00:40	8°47'49	0°24'38	morning set	7570 Jul 01 17:37	5°58'27	
minimum elong	7569 Jul 25 23:32	8°41'37	0°24'18	max. Earth dist.	7570 Jul 06 04:32	14°48'24	1.33752 AU
evening rise	7569 Aug 01 23:32	23°51'18					
	7569 Aug 04 21:57	0°		superior conj	7570 Jul 10 03:11	22°58'19	-0°03'30
	7569 Aug 23 17:55	0°		minimum elong	7570 Jul 10 03:23	22°59'18	0°03'33
evening max el	7569 Aug 25 05:30	1°30'27	23°23'33	behind sun begin	7570 Jul 09 21:53	22°30'26	
desc. node	7569 Aug 27 16:09	3°41'01		behind sun end	7570 Jul 10 08:52	23°28'13	
retrograde	7569 Sep 07 17:44	8°16'16		asc. node	7570 Jul 10 11:24	23°41'33	
evening set	7569 Sep 11 20:54	7°38'53			7570 Jul 13 10:44	0°	
min. Earth dist.	7569 Sep 18 15:05	4°29'46	0.55610 AU	evening rise	7570 Jul 17 10:14	8°26'59	
inferior conj	7569 Sep 20 11:57	3°23'41	-5°25'26		7570 Jul 28 18:45	0°	
minimum elong	7569 Sep 20 08:20	3°29'01	5°25'09	evening max el	7570 Aug 06 20:47	11°49'34	21°46'37
	7569 Sep 27 06:30	30°		desc. node	7570 Aug 14 13:13	17°06'40	
morning rise	7569 Sep 28 22:01	29°31'31		retrograde	7570 Aug 19 09:18	18°02'16	
direct	7569 Oct 01 19:54	29°10'57		evening set	7570 Aug 22 02:33	17°45'38	
	7569 Oct 06 04:15	0°		inferior conj	7570 Aug 31 07:31	13°45'36	-4°32'21
morning max el	7569 Oct 12 11:42	4°09'52	20°23'20	minimum elong	7570 Aug 30 22:27	13°58'18	4°30'15
asc. node	7569 Oct 19 13:51	12°52'38		min. Earth dist.	7570 Aug 31 00:04	13°56'03	0.54780 AU
	7569 Oct 29 02:48	0°		morning rise	7570 Sep 08 19:35	9°55'47	
morning set	7569 Oct 31 03:03	4°05'00		direct	7570 Sep 12 06:38	9°29'32	
				morning max el	7570 Sep 24 11:38	15°14'48	21°54'47
superior conj	7569 Nov 07 16:36	19°38'12	1°36'44		7570 Oct 05 16:52	0°	
minimum elong	7569 Nov 07 18:16	19°46'39	1°36'43	asc. node	7570 Oct 06 10:51	1°16'26	
	7569 Nov 12 22:29	0°		morning set	7570 Oct 15 12:52	18°52'21	
max. Earth dist.	7569 Nov 13 00:18	0°08'48	1.36402 AU		7570 Oct 20 18:52	0°	
evening rise	7569 Nov 16 21:04	7°23'52					

superior conj	7570 Oct 22 16:50	4°♍02'46	1°41'42	superior conj	7571 Oct 06 23:11	18°♌44'04	1°39'59
minimum elong	7570 Oct 22 17:07	4°♍04'19	1°41'46	minimum elong	7571 Oct 06 22:17	18°♌39'13	1°39'58
max. Earth dist.	7570 Oct 26 13:24	12°♍01'31	1.34620 AU	max. Earth dist.	7571 Oct 09 11:16	24°♌06'11	1.33239 AU
evening rise	7570 Oct 30 22:36	20°♍41'38			7571 Oct 12 06:51	0°♍	
	7570 Nov 04 22:49	0°♌		evening rise	7571 Oct 14 12:40	4°♍33'32	
desc. node	7570 Nov 10 12:11	9°♌34'41		desc. node	7571 Oct 28 09:16	29°♍33'54	
	7570 Nov 24 05:00	0°♌			7571 Oct 28 15:46	0°♌	
evening max el	7570 Dec 05 00:59	12°♌31'36	26°52'54	evening max el	7571 Nov 17 13:33	25°♌55'49	27°23'49
retrograde	7570 Dec 18 05:30	19°♌50'10			7571 Nov 22 11:38	0°♌	
evening set	7570 Dec 24 20:05	17°♌13'48		retrograde	7571 Dec 01 03:13	3°♌14'31	
min. Earth dist.	7570 Dec 28 20:18	13°♌15'30	0.65758 AU	evening set	7571 Dec 08 02:40	0°♌39'09	
inferior conj	7570 Dec 30 19:36	10°♌58'31	-0°52'46		7571 Dec 08 22:42	30°♌♌	
minimum elong	7570 Dec 30 21:07	10°♌54'08	0°52'01	min. Earth dist.	7571 Dec 11 21:45	27°♌14'02	0.64228 AU
asc. node	7571 Jan 02 10:11	8°♌06'00		inferior conj	7571 Dec 14 08:39	24°♌39'07	-1°58'34
morning rise	7571 Jan 05 23:12	5°♌20'19		minimum elong	7571 Dec 14 12:17	24°♌29'32	1°56'59
direct	7571 Jan 08 18:24	4°♌37'18		asc. node	7571 Dec 20 07:13	19°♌34'13	
morning max el	7571 Jan 15 05:48	8°♌05'09	18°13'02	morning rise	7571 Dec 20 23:26	19°♌15'14	
	7571 Jan 30 11:47	0°♌		direct	7571 Dec 23 11:19	18°♌43'43	
morning set	7571 Feb 03 04:16	5°♌58'00		morning max el	7571 Dec 29 22:43	22°♌06'53	17°52'12
desc. node	7571 Feb 06 11:29	11°♌17'51			7572 Jan 05 02:11	0°♌	
				morning set	7572 Jan 15 21:27	17°♌46'22	
superior conj	7571 Feb 18 07:57	0°♌09'00	-1°18'08		7572 Jan 23 04:14	0°♌	
minimum elong	7571 Feb 17 23:08	29°♌34'23	1°17'03	desc. node	7572 Jan 24 08:28	1°♌56'40	
	7571 Feb 18 05:40	0°♌					
max. Earth dist.	7571 Feb 20 08:50	3°♌20'49	1.45444 AU	superior conj	7572 Jan 29 01:59	9°♌39'41	-0°33'33
evening rise	7571 Mar 06 11:13	25°♌20'51		minimum elong	7572 Jan 28 22:08	9°♌24'10	0°32'54
	7571 Mar 09 10:53	0°♌		max. Earth dist.	7572 Feb 03 04:13	17°♌48'12	1.44854 AU
greatest brilliancy	7571 Mar 18 06:15	13°♌36'16	-0.7m		7572 Feb 10 23:25	0°♌	
	7571 Mar 30 11:26	0°♌		evening rise	7572 Feb 14 00:11	4°♌40'14	
evening max el	7571 Mar 30 07:52	29°♌51'02	19°19'25		7572 Mar 01 22:10	0°♌	
asc. node	7571 Mar 31 09:16	0°♌52'13		evening max el	7572 Mar 12 11:12	13°♌28'12	20°16'52
retrograde	7571 Apr 06 09:32	3°♌51'35		asc. node	7572 Mar 17 06:20	17°♌14'45	
evening set	7571 Apr 09 22:09	2°♌39'01		retrograde	7572 Mar 20 07:53	18°♌03'00	
	7571 Apr 12 19:02	30°♌♌		evening set	7572 Mar 24 05:14	16°♌35'27	
inferior conj	7571 Apr 15 09:06	26°♌47'57	3°22'58	inferior conj	7572 Mar 29 13:22	10°♌30'40	3°08'57
minimum elong	7571 Apr 15 08:20	26°♌50'27	3°22'52	minimum elong	7572 Mar 29 11:41	10°♌36'24	3°08'41
min. Earth dist.	7571 Apr 16 17:53	25°♌01'27	0.66604 AU	min. Earth dist.	7572 Mar 30 07:50	9°♌27'48	0.67617 AU
morning rise	7571 Apr 20 18:10	20°♌30'46		morning rise	7572 Apr 03 17:55	4°♌14'54	
direct	7571 Apr 26 23:36	17°♌45'43		direct	7572 Apr 09 10:50	1°♌42'08	
desc. node	7571 May 05 11:01	21°♌32'23		morning max el	7572 Apr 20 22:09	8°♌34'07	24°36'49
morning max el	7571 May 09 13:06	25°♌15'55	25°59'57	desc. node	7572 Apr 21 08:00	8°♌59'17	
	7571 May 13 20:25	0°♌			7572 May 07 17:54	0°♌	
	7571 Jun 03 21:14	0°♌			7572 May 26 11:54	0°♌	
morning set	7571 Jun 14 15:58	18°♌44'41		morning set	7572 May 26 20:09	0°♌36'13	
max. Earth dist.	7571 Jun 18 12:14	26°♌00'07	1.35379 AU	max. Earth dist.	7572 May 30 11:06	7°♌05'14	1.37399 AU
	7571 Jun 20 13:29	0°♌					
superior conj	7571 Jun 23 22:07	6°♌43'03	-0°34'03	superior conj	7572 Jun 06 06:13	19°♌52'46	-1°05'26
minimum elong	7571 Jun 24 00:05	6°♌53'03	0°33'46	minimum elong	7572 Jun 06 10:10	20°♌11'53	1°04'53
asc. node	7571 Jun 27 08:26	13°♌44'53			7572 Jun 11 09:21	0°♌	
evening rise	7571 Jul 01 17:55	22°♌50'22		asc. node	7572 Jun 13 05:28	3°♌40'33	
	7571 Jul 05 06:58	0°♌		evening rise	7572 Jun 14 20:08	6°♌53'42	
evening max el	7571 Jul 19 23:14	22°♌40'05	20°22'42		7572 Jun 27 23:34	0°♌	
retrograde	7571 Jul 30 21:42	28°♌03'36		evening max el	7572 Jul 01 14:38	4°♌13'31	19°18'03
desc. node	7571 Aug 01 10:16	27°♌57'45		retrograde	7572 Jul 10 20:18	8°♌46'46	
evening set	7571 Aug 01 21:11	27°♌53'48		evening set	7572 Jul 12 17:45	8°♌36'06	
inferior conj	7571 Aug 11 01:14	23°♌56'24	-2°52'03	desc. node	7572 Jul 18 07:19	6°♌20'20	
minimum elong	7571 Aug 10 17:28	24°♌07'42	2°49'25	inferior conj	7572 Jul 21 07:11	4°♌27'03	-0°54'42
min. Earth dist.	7571 Aug 12 10:23	23°♌08'07	0.54888 AU	minimum elong	7572 Jul 21 04:46	4°♌31'03	0°53'52
morning rise	7571 Aug 19 12:55	19°♌49'06		min. Earth dist.	7572 Jul 23 23:34	2°♌41'18	0.55925 AU
direct	7571 Aug 23 16:40	19°♌11'55			7572 Jul 28 22:45	30°♌♌	
morning max el	7571 Sep 06 02:35	25°♌42'46	23°38'53	morning rise	7572 Jul 29 13:00	29°♌46'06	
	7571 Sep 10 03:43	0°♌		direct	7572 Aug 03 12:33	28°♌49'29	
asc. node	7571 Sep 23 07:51	20°♌15'38			7572 Aug 09 01:44	0°♌	
	7571 Sep 28 05:50	0°♌		morning max el	7572 Aug 17 15:23	5°♌58'19	25°21'43
morning set	7571 Sep 30 00:26	3°♌43'29			7572 Sep 04 01:39	0°♌	
				asc. node	7572 Sep 09 04:52	9°♌40'23	
				morning set	7572 Sep 13 12:02	18°♌32'20	

	7572 Sep 18 18:25	0°♄			7573 Aug 27 08:54	0°♎	
				morning set	7573 Aug 28 22:00	3°♎14'16	
superior conj	7572 Sep 20 09:12	3°♄33'37	1°32'21				
minimum elong	7572 Sep 20 07:27	3°♄23'57	1°32'11	superior conj	7573 Sep 04 20:54	18°♎25'22	1°19'23
max. Earth dist.	7572 Sep 21 16:27	6°♄25'06	1.32294 AU	minimum elong	7573 Sep 04 18:42	18°♎13'08	1°19'03
evening rise	7572 Sep 27 11:47	18°♄49'08		max. Earth dist.	7573 Sep 05 01:59	18°♎53'34	1.31794 AU
	7572 Oct 03 03:08	0°♌			7573 Sep 10 03:31	0°♄	
desc. node	7572 Oct 14 06:20	19°♌04'01		evening rise	7573 Sep 11 17:12	3°♄20'55	
	7572 Oct 22 01:17	0°♊			7573 Sep 25 22:36	0°♌	
evening max el	7572 Oct 29 23:14	8°♊49'37	27°25'26	desc. node	7573 Oct 01 03:24	7°♌53'29	
retrograde	7572 Nov 12 18:01	16°♊04'20		evening max el	7573 Oct 12 03:25	21°♌00'45	26°53'46
evening set	7572 Nov 19 21:04	13°♊39'09		retrograde	7573 Oct 26 01:04	28°♌10'26	
min. Earth dist.	7572 Nov 23 13:05	10°♊42'39	0.62392 AU	evening set	7573 Nov 01 23:14	26°♌06'39	
inferior conj	7572 Nov 26 10:35	7°♊59'40	-3°06'59	min. Earth dist.	7573 Nov 05 17:40	23°♌28'33	0.60347 AU
minimum elong	7572 Nov 26 16:22	7°♊46'05	3°04'49	inferior conj	7573 Nov 08 22:03	20°♌51'20	-4°12'41
morning rise	7572 Dec 03 13:41	2°♊53'39		minimum elong	7573 Nov 09 05:06	20°♌36'46	4°10'40
direct	7572 Dec 05 20:48	2°♊29'59		morning rise	7573 Nov 16 13:17	16°♌06'17	
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morning set	7572 Dec 28 13:20	0°♊39'49			7573 Dec 03 22:37	0°♊	
				morning set	7573 Dec 11 21:31	14°♊18'50	
superior conj	7573 Jan 08 20:44	20°♊23'09	0°09'57		7573 Dec 20 09:38	0°♊	
minimum elong	7573 Jan 08 21:41	20°♊27'12	0°09'54				
behind sun begin	7573 Jan 08 14:38	19°♊57'22		superior conj	7573 Dec 21 16:39	2°♊18'55	0°46'06
behind sun end	7573 Jan 09 04:44	20°♊56'59		minimum elong	7573 Dec 21 19:54	2°♊33'21	0°45'44
desc. node	7573 Jan 10 05:30	22°♊41'01		desc. node	7573 Dec 28 02:31	13°♊27'00	
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max. Earth dist.	7573 Jan 15 20:42	1°♌57'20	1.43590 AU	evening rise	7574 Jan 03 16:02	24°♊15'48	
evening rise	7573 Jan 23 13:06	14°♌07'31			7574 Jan 07 06:53	0°♌	
	7573 Feb 03 00:30	0°♋			7574 Jan 27 23:24	0°♋	
evening max el	7573 Feb 23 08:58	27°♋06'28	21°26'35	evening max el	7574 Feb 06 01:59	10°♋46'44	22°44'20
	7573 Feb 26 14:17	0°♎		retrograde	7574 Feb 16 02:11	16°♋43'06	
retrograde	7573 Mar 04 06:01	2°♎21'43		asc. node	7574 Feb 19 00:27	15°♋59'40	
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evening set	7573 Mar 08 13:16	0°♎39'00		inferior conj	7574 Feb 26 05:20	8°♋21'27	2°11'03
	7573 Mar 09 07:09	30°♋♋		minimum elong	7574 Feb 26 03:04	8°♋29'18	2°10'23
inferior conj	7573 Mar 13 20:47	24°♋22'58	2°44'33	min. Earth dist.	7574 Feb 25 22:51	8°♋43'57	0.68349 AU
minimum elong	7573 Mar 13 18:35	24°♋30'35	2°44'04	morning rise	7574 Mar 03 09:24	2°♋12'51	
min. Earth dist.	7573 Mar 14 02:15	24°♋03'56	0.68191 AU	direct	7574 Mar 07 22:11	0°♋20'52	
morning rise	7573 Mar 18 23:44	18°♋10'07		morning max el	7574 Mar 16 21:02	5°♋33'41	21°40'19
direct	7573 Mar 24 02:40	15°♋56'11		desc. node	7574 Mar 26 01:59	16°♋38'24	
morning max el	7573 Apr 03 07:46	21°♋59'45	23°07'14		7574 Apr 04 12:31	0°♎	
desc. node	7573 Apr 08 05:00	27°♋27'02		morning set	7574 Apr 18 01:08	20°♎44'02	
	7573 Apr 10 06:23	0°♎			7574 Apr 23 18:17	0°♋	
	7573 May 01 01:11	0°♏		max. Earth dist.	7574 Apr 24 06:53	0°♏52'04	1.41788 AU
morning set	7573 May 08 00:34	11°♏19'09					
max. Earth dist.	7573 May 12 07:13	18°♏34'59	1.39622 AU	superior conj	7574 May 01 21:20	13°♏47'33	-1°58'39
	7573 May 18 17:26	0°♐		minimum elong	7574 May 02 02:30	14°♏10'08	1°58'20
					7574 May 10 22:15	0°♐	
superior conj	7573 May 19 23:32	2°♐17'59	-1°34'59	evening rise	7574 May 12 19:21	3°♐26'43	
minimum elong	7573 May 20 04:59	2°♐43'05	1°34'24	asc. node	7574 May 17 23:33	12°♐50'56	
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asc. node	7573 May 31 02:31	23°♐24'26			7574 May 29 21:20	0°♑	
	7573 Jun 03 14:52	0°♑		retrograde	7574 Jun 04 23:59	2°♑44'38	
evening max el	7573 Jun 14 16:49	16°♑28'15	18°34'13	evening set	7574 Jun 07 10:31	2°♑19'09	
retrograde	7573 Jun 22 13:01	20°♑21'57			7574 Jun 11 11:25	30°♋♐	
evening set	7573 Jun 24 16:02	20°♑05'41		inferior conj	7574 Jun 14 09:33	27°♐31'13	2°05'03
inferior conj	7573 Jul 02 09:43	15°♑38'00	0°48'55	minimum elong	7574 Jun 14 12:41	27°♐24'08	2°04'04
minimum elong	7573 Jul 02 11:28	15°♑34'38	0°48'12	min. Earth dist.	7574 Jun 17 18:05	24°♐31'14	0.59847 AU
desc. node	7573 Jul 05 04:21	13°♑29'28		morning rise	7574 Jun 21 11:59	21°♐44'48	
min. Earth dist.	7573 Jul 05 17:35	13°♑04'52	0.57684 AU	desc. node	7574 Jun 22 01:22	21°♐25'26	
morning rise	7573 Jul 10 03:26	10°♑20'11		direct	7574 Jun 27 22:52	19°♐46'43	
direct	7573 Jul 15 22:58	8°♑54'43		morning max el	7574 Jul 12 07:26	27°♐40'46	27°39'32
morning max el	7573 Jul 30 08:13	16°♑31'26	26°46'21		7574 Jul 14 13:03	0°♑	
	7573 Aug 10 09:20	0°♒			7574 Aug 04 02:03	0°♒	
asc. node	7573 Aug 27 01:53	29°♒23'46		morning set	7574 Aug 13 04:37	17°♒43'51	































































































































































































































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	7574 Aug 18 21:25	0°♎		morning set	7575 Jul 28 05:50	1°♎54'27	
max. Earth dist.	7574 Aug 19 12:14	1°♎21'43	1.31740 AU	asc. node	7575 Jul 31 19:53	9°♎22'47	
				max. Earth dist.	7575 Aug 02 19:25	13°♎37'43	1.32147 AU
superior conj	7574 Aug 20 08:27	3°♎13'24	1°01'33				
minimum elong	7574 Aug 20 06:15	3°♎01'16	1°01'08	superior conj	7575 Aug 04 18:01	17°♎51'12	0°39'17
evening rise	7574 Aug 27 02:37	18°♎02'02		minimum elong	7575 Aug 04 16:20	17°♎42'00	0°38'53
	7574 Sep 01 23:00	0°♎			7575 Aug 10 07:15	0°♎	
desc. node	7574 Sep 18 00:27	25°♎46'15		evening rise	7575 Aug 11 14:00	2°♎45'33	
	7574 Sep 21 15:44	0°♎			7575 Aug 26 04:43	0°♎	
evening max el	7574 Sep 24 00:08	2°♎22'39	25°49'34	desc. node	7575 Sep 04 21:30	12°♎19'04	
retrograde	7574 Oct 07 22:43	9°♎26'50		evening max el	7575 Sep 05 13:47	12°♎59'01	24°20'30
evening set	7574 Oct 14 04:21	7°♎55'07		retrograde	7575 Sep 19 08:24	19°♎53'59	
min. Earth dist.	7574 Oct 18 12:44	5°♎19'16	0.58274 AU	evening set	7575 Sep 24 08:40	18°♎58'27	
inferior conj	7574 Oct 21 15:39	3°♎05'09	-5°05'55	min. Earth dist.	7575 Sep 30 00:42	16°♎06'30	0.56438 AU
minimum elong	7574 Oct 21 21:30	2°♎54'38	5°04'56	inferior conj	7575 Oct 02 12:59	14°♎32'12	-5°31'07
	7574 Oct 26 10:15	30°♎♎		minimum elong	7575 Oct 02 13:40	14°♎31'09	5°31'05
morning rise	7574 Oct 29 17:00	28°♎42'44		morning rise	7575 Oct 10 20:50	10°♎30'55	
direct	7574 Nov 01 01:14	28°♎25'10		direct	7575 Oct 13 12:44	10°♎12'01	
	7574 Nov 06 07:33	0°♎		morning max el	7575 Oct 23 06:55	14°♎47'51	19°39'36
morning max el	7574 Nov 09 11:15	2°♎28'34	18°41'16	asc. node	7575 Oct 27 19:21	20°♎00'00	
asc. node	7574 Nov 09 22:20	2°♎55'52			7575 Nov 03 02:26	0°♎	
morning set	7574 Nov 25 17:02	28°♎29'20		morning set	7575 Nov 09 20:09	13°♎00'01	
	7574 Nov 26 11:39	0°♎♎					
superior conj	7574 Dec 04 09:20	15°♎14'07	1°12'53	superior conj	7575 Nov 17 17:34	28°♎53'26	1°30'26
minimum elong	7574 Dec 04 12:44	15°♎30'08	1°12'34	minimum elong	7575 Nov 17 20:01	29°♎05'28	1°30'20
max. Earth dist.	7574 Dec 11 14:58	28°♎23'36	1.39722 AU		7575 Nov 18 07:05	0°♎♎	
	7574 Dec 12 13:02	0°♎♎		max. Earth dist.	7575 Nov 23 20:40	10°♎38'48	1.37579 AU
desc. node	7574 Dec 14 23:32	4°♎11'15		evening rise	7575 Nov 27 14:25	17°♎26'25	
evening rise	7574 Dec 15 16:23	5°♎22'27		desc. node	7575 Dec 01 20:33	24°♎49'17	
	7574 Dec 31 09:46	0°♎♎			7575 Dec 04 23:21	0°♎♎	
evening max el	7575 Jan 19 16:08	24°♎31'03	24°04'22		7575 Dec 25 18:53	0°♎♎	
	7575 Jan 26 18:12	0°♎♎		evening max el	7576 Jan 02 05:18	8°♎18'05	25°20'02
retrograde	7575 Jan 30 19:01	1°♎03'07		retrograde	7576 Jan 14 07:25	15°♎16'18	
	7575 Feb 03 11:28	30°♎♎		evening set	7576 Jan 20 03:09	12°♎51'46	
evening set	7575 Feb 05 01:47	28°♎51'10		asc. node	7576 Jan 23 18:33	8°♎58'22	
asc. node	7575 Feb 05 21:30	28°♎06'08		min. Earth dist.	7576 Jan 24 13:20	7°♎58'58	0.67492 AU
min. Earth dist.	7575 Feb 09 19:20	23°♎23'46	0.68113 AU	inferior conj	7576 Jan 25 18:28	6°♎24'44	0°39'39
inferior conj	7575 Feb 10 13:11	22°♎23'21	1°29'14	minimum elong	7576 Jan 25 17:31	6°♎27'52	0°39'19
minimum elong	7575 Feb 10 11:19	22°♎29'40	1°28'36	morning rise	7576 Jan 31 08:11	0°♎29'49	
morning rise	7575 Feb 15 20:53	16°♎20'35			7576 Feb 01 04:36	30°♎♎	
direct	7575 Feb 19 20:14	14°♎50'53		direct	7576 Feb 03 19:20	29°♎20'46	
morning max el	7575 Feb 27 17:04	19°♎19'09	20°23'11		7576 Feb 06 12:40	0°♎♎	
	7575 Mar 08 10:52	0°♎♎		morning max el	7576 Feb 10 21:08	3°♎15'54	19°20'02
desc. node	7575 Mar 12 22:58	6°♎21'38		greatest brilliancy	7576 Feb 23 22:53	20°♎36'15	-0.7m
morning set	7575 Mar 28 02:51	29°♎09'08		desc. node	7576 Feb 27 19:57	26°♎27'46	
	7575 Mar 28 15:58	0°♎♎			7576 Mar 01 03:31	0°♎♎	
max. Earth dist.	7575 Apr 06 13:53	14°♎03'47	1.43620 AU	morning set	7576 Mar 06 01:59	7°♎35'55	
				max. Earth dist.	7576 Mar 19 04:13	28°♎00'48	1.44886 AU
superior conj	7575 Apr 12 19:24	24°♎13'26	-2°10'49		7576 Mar 20 10:23	0°♎♎	
minimum elong	7575 Apr 12 20:51	24°♎19'28	2°10'51	superior conj	7576 Mar 22 17:05	3°♎37'05	-2°05'34
	7575 Apr 16 06:20	0°♎♎		minimum elong	7576 Mar 22 11:45	3°♎15'51	2°05'22
evening rise	7575 Apr 25 08:07	15°♎36'51		evening rise	7576 Apr 05 23:48	26°♎51'46	
	7575 May 03 16:34	0°♎♎			7576 Apr 07 21:07	0°♎♎	
asc. node	7575 May 04 20:34	1°♎54'14		asc. node	7576 Apr 20 17:36	20°♎27'08	
evening max el	7575 May 12 14:52	12°♎25'09	18°06'24	evening max el	7576 Apr 25 03:55	25°♎50'10	18°20'49
retrograde	7575 May 19 01:42	15°♎45'58		retrograde	7576 May 01 13:48	29°♎16'47	
evening set	7575 May 21 19:33	15°♎08'44		evening set	7576 May 04 14:40	28°♎26'24	
inferior conj	7575 May 28 03:34	10°♎01'01	2°53'21	inferior conj	7576 May 10 11:43	23°♎00'23	3°18'29
minimum elong	7575 May 28 06:11	9°♎54'17	2°52'45	minimum elong	7576 May 10 13:02	22°♎56'37	3°18'15
min. Earth dist.	7575 May 31 02:41	6°♎58'52	0.62085 AU	min. Earth dist.	7576 May 12 20:33	20°♎17'19	0.64127 AU
morning rise	7575 Jun 03 14:58	3°♎56'50		morning rise	7576 May 16 10:23	16°♎46'53	
desc. node	7575 Jun 08 22:24	1°♎37'36		direct	7576 May 23 04:10	14°♎04'11	
direct	7575 Jun 10 09:16	1°♎31'04		desc. node	7576 May 25 19:25	14°♎26'13	
morning max el	7575 Jun 24 12:34	9°♎32'32	27°54'58	morning max el	7576 Jun 05 21:45	22°♎03'37	27°33'30
	7575 Jul 10 09:08	0°♎♎			7576 Jun 12 20:30	0°♎♎	

	7576 Jul 02 14:00	0°☿			7577 May 13 12:14	0°♄	
morning set	7576 Jul 10 23:17	15°☿39'46		morning max el	7577 May 19 08:15	5°♄01'57	26°40'54
max. Earth dist.	7576 Jul 15 19:50	25°☿32'08	1.33031 AU		7577 Jun 07 09:44	0°♄	
asc. node	7576 Jul 17 16:52	29°☿29'05		morning set	7577 Jun 24 05:44	28°♄50'20	
	7576 Jul 17 22:41	0°♄			7577 Jun 24 20:22	0°☿	
				max. Earth dist.	7577 Jun 28 10:09	6°☿58'11	1.34392 AU
superior conj	7576 Jul 18 23:44	2°♄13'29	0°13'06				
minimum elong	7576 Jul 18 23:05	2°♄10'03	0°12'53	superior conj	7577 Jul 02 23:18	16°☿13'12	-0°16'14
behind sun begin	7576 Jul 18 19:51	1°♄52'45		minimum elong	7577 Jul 03 00:12	16°☿17'52	0°16'09
behind sun end	7576 Jul 19 02:19	2°♄27'22		asc. node	7577 Jul 04 13:52	19°☿34'07	
evening rise	7576 Jul 26 01:32	17°♄26'05			7577 Jul 09 12:50	0°♄	
	7576 Aug 01 06:04	0°♄		evening rise	7577 Jul 10 11:12	1°♄56'56	
evening max el	7576 Aug 17 01:46	23°♄13'25	22°41'28		7577 Jul 26 13:24	0°♄	
desc. node	7576 Aug 21 18:32	27°♄02'30		evening max el	7577 Jul 29 20:55	3°♄41'23	21°08'43
retrograde	7576 Aug 30 05:30	29°♄47'16		desc. node	7577 Aug 08 15:36	9°♄24'02	
evening set	7576 Sep 02 17:24	29°♄20'29		retrograde	7577 Aug 10 18:35	9°♄35'04	
min. Earth dist.	7576 Sep 10 09:21	25°♄56'08	0.55155 AU	evening set	7577 Aug 13 01:55	9°♄22'37	
inferior conj	7576 Sep 11 15:39	25°♄12'59	-5°09'46	inferior conj	7577 Aug 22 08:28	5°♄25'04	-3°54'08
minimum elong	7576 Sep 11 09:06	25°♄22'20	5°08'48	minimum elong	7577 Aug 21 23:07	5°♄38'15	3°51'27
morning rise	7576 Sep 20 02:48	21°♄24'22		min. Earth dist.	7577 Aug 22 18:29	5°♄10'57	0.54703 AU
direct	7576 Sep 23 06:12	21°♄01'41		morning rise	7577 Aug 30 20:51	1°♄30'30	
morning max el	7576 Oct 04 13:49	26°♄19'10	21°00'03	direct	7577 Sep 03 14:18	1°♄00'40	
	7576 Oct 08 00:31	0°♄		morning max el	7577 Sep 16 09:17	7°♄05'37	22°38'25
asc. node	7576 Oct 13 16:21	7°♄58'16		asc. node	7577 Sep 30 13:21	26°♄37'42	
morning set	7576 Oct 24 04:10	27°♄43'10			7577 Oct 02 09:18	0°♄	
	7576 Oct 25 06:31	0°♄		morning set	7577 Oct 08 14:57	12°♄32'26	
superior conj	7576 Oct 31 13:01	13°♄04'31	1°39'42	superior conj	7577 Oct 15 16:11	27°♄36'59	1°41'45
minimum elong	7576 Oct 31 14:05	13°♄10'04	1°39'45	minimum elong	7577 Oct 15 15:56	27°♄35'41	1°41'47
max. Earth dist.	7576 Nov 05 06:00	22°♄34'02	1.35606 AU		7577 Oct 16 19:09	0°♄	
evening rise	7576 Nov 09 07:02	0°♄19'48		max. Earth dist.	7577 Oct 18 22:38	4°♄29'28	1.33972 AU
	7576 Nov 09 02:48	0°♄		evening rise	7577 Oct 23 14:17	13°♄52'39	
desc. node	7576 Nov 17 17:34	15°♄16'42			7577 Nov 01 08:32	0°♄	
	7576 Nov 27 02:35	0°♄		desc. node	7577 Nov 04 14:37	5°♄28'01	
evening max el	7576 Dec 14 18:22	22°♄02'51	26°24'04		7577 Nov 22 00:21	0°♄	
retrograde	7576 Dec 27 14:38	29°♄16'48		evening max el	7577 Nov 27 07:16	5°♄37'14	27°09'14
evening set	7577 Jan 02 22:58	26°♄42'59		retrograde	7577 Dec 10 16:16	12°♄57'18	
min. Earth dist.	7577 Jan 07 02:35	22°♄25'08	0.66500 AU	evening set	7577 Dec 17 11:12	10°♄20'01	
inferior conj	7577 Jan 08 19:15	20°♄21'56	-0°17'09	min. Earth dist.	7577 Dec 21 08:56	6°♄36'27	0.65146 AU
minimum elong	7577 Jan 08 19:43	20°♄20'32	0°16'51	inferior conj	7577 Dec 23 13:20	4°♄10'28	-1°20'08
asc. node	7577 Jan 09 15:38	19°♄20'40		minimum elong	7577 Dec 23 15:43	4°♄03'50	1°19'01
morning rise	7577 Jan 14 17:14	14°♄37'05		asc. node	7577 Dec 27 12:41	0°♄10'49	
direct	7577 Jan 17 17:43	13°♄45'40			7577 Dec 27 18:03	30°♄	
morning max el	7577 Jan 24 08:12	17°♄20'03	18°32'43	morning rise	7577 Dec 29 21:33	28°♄38'18	
	7577 Feb 02 22:48	0°♄		direct	7578 Jan 01 13:19	28°♄00'45	
morning set	7577 Feb 13 21:39	17°♄08'57			7578 Jan 06 09:32	0°♄	
desc. node	7577 Feb 13 16:55	16°♄50'13		morning max el	7578 Jan 07 23:54	1°♄25'25	18°02'06
	7577 Feb 22 01:08	0°♄		morning set	7578 Jan 25 22:59	28°♄11'07	
					7578 Jan 27 01:24	0°♄	
superior conj	7577 Mar 01 22:50	12°♄23'30	-1°40'13	desc. node	7578 Jan 31 13:54	7°♄24'28	
minimum elong	7577 Mar 01 13:15	11°♄46'01	1°39'18				
max. Earth dist.	7577 Mar 01 22:45	12°♄23'13	1.45455 AU	superior conj	7578 Feb 09 07:17	21°♄25'13	-0°59'43
	7577 Mar 13 03:44	0°♄		minimum elong	7578 Feb 09 00:16	20°♄57'27	0°58'43
evening rise	7577 Mar 17 15:59	7°♄08'54		max. Earth dist.	7578 Feb 12 18:19	26°♄52'50	1.45279 AU
greatest brilliancy	7577 Mar 26 12:33	21°♄11'29	-0.8m		7578 Feb 14 18:04	0°♄	
	7577 Apr 01 06:57	0°♄		evening rise	7578 Feb 25 12:00	16°♄41'27	
asc. node	7577 Apr 07 14:40	8°♄19'15			7578 Mar 06 03:59	0°♄	
evening max el	7577 Apr 08 14:34	9°♄22'35	18°53'09	greatest brilliancy	7578 Mar 11 02:48	7°♄27'23	-0.7m
retrograde	7577 Apr 15 08:20	13°♄07'50		evening max el	7578 Mar 22 20:53	22°♄58'50	19°42'02
evening set	7577 Apr 18 16:24	12°♄03'33		asc. node	7578 Mar 25 11:45	25°♄18'49	
inferior conj	7577 Apr 24 06:08	6°♄20'54	3°25'31	retrograde	7578 Mar 30 06:04	27°♄13'24	
minimum elong	7577 Apr 24 06:03	6°♄21'09	3°25'27	evening set	7578 Apr 02 22:09	25°♄54'38	
min. Earth dist.	7577 Apr 25 23:30	4°♄11'22	0.65818 AU	inferior conj	7578 Apr 08 07:37	19°♄57'20	3°18'23
morning rise	7577 Apr 29 19:12	0°♄03'50		minimum elong	7578 Apr 08 06:25	20°♄01'20	3°18'14
	7577 Apr 29 20:58	30°♄		min. Earth dist.	7578 Apr 09 10:11	18°♄28'59	0.67090 AU
direct	7577 May 06 06:16	27°♄16'25		morning rise	7578 Apr 13 14:22	13°♄40'13	
desc. node	7577 May 12 16:25	29°♄27'25		direct	7578 Apr 19 14:38	10°♄59'22	



desc. node	7578 Apr 29 13:26	16° $\Upsilon$ 09'27	direct	7579 Apr 03 04:10	25° $\text{X}$ 04'13	
morning max el	7578 May 01 18:00	18° $\Upsilon$ 15'44 25°25'54		7579 Apr 12 10:53	0° $\Upsilon$	
	7578 May 11 15:03	0° $\text{B}$	morning max el	7579 Apr 14 02:53	1° $\Upsilon$ 36'45 23°58'44	
	7578 May 31 10:34	0° $\Pi$	desc. node	7579 Apr 16 10:26	4° $\Upsilon$ 04'31	
morning set	7578 Jun 06 21:02	11° $\Pi$ 15'02		7579 May 05 15:08	0° $\text{B}$	
max. Earth dist.	7578 Jun 10 13:27	18° $\Pi$ 02'55 1.36199 AU	morning set	7579 May 19 15:48	22° $\text{B}$ 39'14	
			max. Earth dist.	7579 May 23 09:43	29° $\text{B}$ 12'21 1.38336 AU	
				7579 May 23 20:24	0° $\Pi$	
superior conj	7578 Jun 16 14:01	29° $\Pi$ 43'35 -0°47'25				
minimum elong	7578 Jun 16 16:50	29° $\Pi$ 57'36 0°47'00				
	7578 Jun 16 17:19	0° $\text{B}$	superior conj	7579 May 30 16:24	12° $\Pi$ 35'51 -1°18'25	
asc. node	7578 Jun 21 10:53	9° $\text{B}$ 34'17	minimum elong	7579 May 30 21:06	12° $\Pi$ 58'09 1°17'49	
evening rise	7578 Jun 24 16:52	16° $\text{B}$ 12'10	asc. node	7579 Jun 08 07:56	29° $\Pi$ 25'28	
	7578 Jul 01 19:27	0° $\Omega$	evening rise	7579 Jun 08 15:53	0° $\text{B}$ 04'30	
evening max el	7578 Jul 12 04:55	14° $\Omega$ 49'14 19°52'39		7579 Jun 08 14:58	0° $\text{B}$	
retrograde	7578 Jul 22 09:57	19° $\Omega$ 50'48	evening max el	7579 Jun 25 01:28	26° $\text{B}$ 41'50 18°56'56	
evening set	7578 Jul 24 06:49	19° $\Omega$ 41'26		7579 Jun 29 14:20	0° $\Omega$	
desc. node	7578 Jul 26 12:40	19° $\Omega$ 07'10	retrograde	7579 Jul 03 15:26	0° $\Omega$ 55'59	
inferior conj	7578 Aug 02 05:53	15° $\Omega$ 40'40 -2°02'13	evening set	7579 Jul 05 14:52	0° $\Omega$ 43'25	
minimum elong	7578 Aug 02 00:16	15° $\Omega$ 49'16 2°00'12		7579 Jul 07 21:39	30° $\text{R}$ $\text{B}$	
min. Earth dist.	7578 Aug 04 06:11	14° $\Omega$ 27'03 0.55219 AU	desc. node	7579 Jul 13 09:42	26° $\text{B}$ 45'33	
morning rise	7578 Aug 10 15:48	11° $\Omega$ 19'51	inferior conj	7579 Jul 13 20:07	26° $\text{B}$ 27'18 -0°07'51	
direct	7578 Aug 15 03:31	10° $\Omega$ 35'33	minimum elong	7579 Jul 13 19:47	26° $\text{B}$ 27'52 0°07'49	
morning max el	7578 Aug 28 22:32	17° $\Omega$ 24'43 24°23'54	transit middle	7579 Jul 13 19:47	26° $\text{B}$ 27'52 0°07'49	
	7578 Sep 08 05:20	0° $\text{M}$	transit begin	7579 Jul 13 16:30	26° $\text{B}$ 33'38	
asc. node	7578 Sep 17 10:21	15° $\text{M}$ 48'13	transit end	7579 Jul 13 23:04	26° $\text{B}$ 22'06	
morning set	7578 Sep 23 02:40	27° $\text{M}$ 22'29	min. Earth dist.	7579 Jul 16 21:19	24° $\text{B}$ 19'17 0.56604 AU	
	7578 Sep 24 08:06	0° $\text{B}$	morning rise	7579 Jul 21 21:24	21° $\text{B}$ 30'21	
			direct	7579 Jul 27 06:04	20° $\text{B}$ 22'03	
superior conj	7578 Sep 30 00:20	12° $\text{B}$ 22'16 1°37'26	morning max el	7579 Aug 10 12:20	27° $\text{B}$ 44'13 26°00'50	
minimum elong	7578 Sep 29 23:02	12° $\text{B}$ 15'09 1°37'22		7579 Aug 12 17:40	0° $\Omega$	
max. Earth dist.	7578 Oct 01 23:35	16° $\text{B}$ 38'27 1.32771 AU		7579 Sep 01 14:10	0° $\text{M}$	
evening rise	7578 Oct 07 08:32	27° $\text{B}$ 55'09	asc. node	7579 Sep 04 07:21	5° $\text{M}$ 21'42	
	7578 Oct 08 09:16	0° $\text{M}$	morning set	7579 Sep 07 13:45	12° $\text{M}$ 08'57	
desc. node	7578 Oct 22 11:40	25° $\text{M}$ 15'38				
	7578 Oct 25 13:49	0° $\text{X}$	superior conj	7579 Sep 14 11:18	27° $\text{M}$ 13'40 1°27'28	
evening max el	7578 Nov 09 18:48	18° $\text{X}$ 49'37 27°28'33	minimum elong	7579 Sep 14 09:18	27° $\text{M}$ 02'36 1°27'14	
retrograde	7578 Nov 23 11:28	26° $\text{X}$ 07'55	max. Earth dist.	7579 Sep 15 07:00	29° $\text{M}$ 02'24 1.32024 AU	
evening set	7578 Nov 30 13:04	23° $\text{X}$ 35'32		7579 Sep 15 17:27	0° $\text{B}$	
min. Earth dist.	7578 Dec 04 06:22	20° $\text{X}$ 23'23 0.63468 AU	evening rise	7579 Sep 21 10:40	12° $\text{B}$ 18'57	
inferior conj	7578 Dec 06 22:03	17° $\text{X}$ 43'21 -2°27'32		7579 Sep 30 12:48	0° $\text{M}$	
minimum elong	7578 Dec 07 02:37	17° $\text{X}$ 31'49 2°25'39	desc. node	7579 Oct 09 08:44	14° $\text{M}$ 30'03	
morning rise	7578 Dec 13 18:00	12° $\text{X}$ 26'42		7579 Oct 21 15:00	0° $\text{X}$	
asc. node	7578 Dec 14 09:45	12° $\text{X}$ 13'43	evening max el	7579 Oct 23 02:40	1° $\text{X}$ 27'18 27°16'18	
direct	7578 Dec 16 03:22	11° $\text{X}$ 59'05	retrograde	7579 Nov 05 23:05	8° $\text{X}$ 39'36	
morning max el	7578 Dec 22 17:12	15° $\text{X}$ 23'27 17°48'44	evening set	7579 Nov 13 01:06	6° $\text{X}$ 22'30	
	7579 Jan 01 23:55	0° $\text{B}$	min. Earth dist.	7579 Nov 16 17:21	3° $\text{X}$ 35'04 0.61535 AU	
morning set	7579 Jan 08 02:41	10° $\text{B}$ 29'37	inferior conj	7579 Nov 19 18:16	0° $\text{X}$ 52'50 -3°35'38	
desc. node	7579 Jan 18 10:54	28° $\text{B}$ 05'53	minimum elong	7579 Nov 20 00:46	0° $\text{X}$ 38'20 3°33'26	
	7579 Jan 19 14:27	0° $\approx$		7579 Nov 20 18:10	30° $\text{R}$ $\text{M}$	
			morning rise	7579 Nov 27 02:36	25° $\text{M}$ 55'03	
superior conj	7579 Jan 20 11:14	1° $\approx$ 25'34 -0°14'32	direct	7579 Nov 29 08:35	25° $\text{M}$ 33'42	
minimum elong	7579 Jan 20 09:40	1° $\approx$ 19'09 0°14'12	asc. node	7579 Dec 01 06:46	25° $\text{M}$ 49'54	
behind sun begin	7579 Jan 20 05:08	1° $\approx$ 00'29	morning max el	7579 Dec 06 08:54	29° $\text{M}$ 06'02 17°53'30	
behind sun end	7579 Jan 20 14:12	1° $\approx$ 37'48		7579 Dec 07 05:46	0° $\text{X}$	
max. Earth dist.	7579 Jan 26 12:18	11° $\approx$ 12'45 1.44389 AU	morning set	7579 Dec 22 02:12	23° $\text{X}$ 44'23	
evening rise	7579 Feb 04 22:59	25° $\approx$ 59'21		7579 Dec 25 13:05	0° $\text{B}$	
	7579 Feb 07 13:52	0° $\text{X}$				
	7579 Feb 28 06:47	0° $\Upsilon$	superior conj	7580 Jan 01 16:57	12° $\text{B}$ 40'05 0°26'22	
evening max el	7579 Mar 05 21:53	6° $\Upsilon$ 36'39 20°45'12	minimum elong	7580 Jan 01 19:12	12° $\text{B}$ 49'46 0°26'07	
asc. node	7579 Mar 12 08:50	11° $\Upsilon$ 11'07	desc. node	7580 Jan 05 07:55	18° $\text{B}$ 50'58	
retrograde	7579 Mar 14 04:33	11° $\Upsilon$ 28'15	max. Earth dist.	7580 Jan 09 02:46	25° $\text{B}$ 08'17 1.42889 AU	
evening set	7579 Mar 18 05:51	9° $\Upsilon$ 54'31		7580 Jan 12 02:40	0° $\approx$	
inferior conj	7579 Mar 23 13:30	3° $\Upsilon$ 44'44 2°59'47	evening rise	7580 Jan 15 16:28	5° $\approx$ 40'50	
minimum elong	7579 Mar 23 11:33	3° $\Upsilon$ 51'27 2°59'25		7580 Jan 31 21:27	0° $\text{X}$	
min. Earth dist.	7579 Mar 24 02:24	3° $\Upsilon$ 00'20 0.67920 AU	evening max el	7580 Feb 16 17:36	20° $\text{X}$ 16'01 21°58'59	
	7579 Mar 26 09:09	30° $\text{R}$ $\text{X}$	retrograde	7580 Feb 26 01:53	25° $\text{X}$ 48'24	
morning rise	7579 Mar 28 17:02	27° $\text{X}$ 29'51	asc. node	7580 Feb 27 05:54	25° $\text{X}$ 41'23	

evening set	7580 Mar 01 13:47	23° $\text{H}$ 59'20		minimum elong	7581 Feb 19 03:56	1° $\text{H}$ 47'11	1°53'38
inferior conj	7580 Mar 06 21:38	17° $\text{H}$ 39'46	2°31'25	min. Earth dist.	7581 Feb 18 18:40	2° $\text{H}$ 19'04	0.68297 AU
minimum elong	7580 Mar 06 19:21	17° $\text{H}$ 47'42	2°30'49		7581 Feb 20 11:24	30° $\text{R}$ $\approx$	
min. Earth dist.	7580 Mar 06 21:58	17° $\text{H}$ 38'36	0.68317 AU	morning rise	7581 Feb 24 11:25	25° $\approx$ 33'45	
morning rise	7580 Mar 12 00:45	11° $\text{H}$ 28'39		direct	7581 Feb 28 18:24	23° $\approx$ 51'23	
direct	7580 Mar 16 21:46	9° $\text{H}$ 23'39		morning max el	7581 Mar 09 05:22	28° $\approx$ 43'39	21°06'08
morning max el	7580 Mar 26 13:26	15° $\text{H}$ 04'44	22°29'22		7581 Mar 10 10:49	0° $\text{H}$	
desc. node	7580 Apr 02 07:25	22° $\text{H}$ 52'19		desc. node	7581 Mar 20 04:24	12° $\text{H}$ 18'23	
	7580 Apr 07 16:03	0° $\text{Y}$			7581 Apr 01 07:13	0° $\text{Y}$	
	7580 Apr 27 14:58	0° $\text{B}$		morning set	7581 Apr 08 22:04	11° $\text{Y}$ 44'21	
morning set	7580 Apr 29 08:32	2° $\text{B}$ 48'44		max. Earth dist.	7581 Apr 16 10:14	23° $\text{Y}$ 45'04	1.42625 AU
max. Earth dist.	7580 May 04 06:51	11° $\text{B}$ 01'01	1.40576 AU		7581 Apr 20 05:02	0° $\text{B}$	
superior conj	7580 May 12 02:03	24° $\text{B}$ 39'03	-1°46'03	superior conj	7581 Apr 23 14:16	5° $\text{B}$ 42'48	-2°05'34
minimum elong	7580 May 12 07:42	25° $\text{B}$ 04'29	1°45'32	minimum elong	7581 Apr 23 18:22	6° $\text{B}$ 00'17	2°05'26
	7580 May 15 00:37	0° $\text{II}$		evening rise	7581 May 05 03:57	26° $\text{B}$ 04'27	
evening rise	7580 May 22 04:55	13° $\text{II}$ 24'59			7581 May 07 08:25	0° $\text{II}$	
asc. node	7580 May 25 04:58	19° $\text{II}$ 02'29		asc. node	7581 May 12 02:00	8° $\text{II}$ 20'20	
	7580 May 31 10:02	0° $\text{E}$		evening max el	7581 May 21 18:19	22° $\text{II}$ 09'22	18°06'22
evening max el	7580 Jun 07 07:09	9° $\text{E}$ 11'26	18°21'42	retrograde	7581 May 28 10:14	25° $\text{II}$ 33'34	
retrograde	7580 Jun 14 16:12	12° $\text{E}$ 52'37		evening set	7581 May 30 23:53	25° $\text{II}$ 03'19	
evening set	7580 Jun 16 22:31	12° $\text{E}$ 32'40		inferior conj	7581 Jun 06 16:01	20° $\text{II}$ 06'29	2°28'42
inferior conj	7580 Jun 24 07:53	7° $\text{E}$ 56'08	1°24'51	minimum elong	7581 Jun 06 19:05	19° $\text{II}$ 59'06	2°27'50
minimum elong	7580 Jun 24 10:32	7° $\text{E}$ 50'39	1°23'52	min. Earth dist.	7581 Jun 09 21:16	17° $\text{II}$ 02'50	0.60810 AU
min. Earth dist.	7580 Jun 27 17:33	5° $\text{E}$ 08'56	0.58581 AU	morning rise	7581 Jun 13 11:52	14° $\text{II}$ 11'04	
desc. node	7580 Jun 29 06:46	3° $\text{E}$ 59'32		desc. node	7581 Jun 16 03:47	12° $\text{II}$ 47'00	
morning rise	7580 Jul 01 19:19	2° $\text{E}$ 25'13		direct	7581 Jun 20 02:41	12° $\text{II}$ 00'34	
direct	7580 Jul 07 22:19	0° $\text{E}$ 45'59		morning max el	7581 Jul 04 09:47	19° $\text{II}$ 58'38	27°50'48
morning max el	7580 Jul 22 07:36	8° $\text{E}$ 30'15	27°13'24		7581 Jul 12 23:27	0° $\text{E}$	
	7580 Aug 07 15:01	0° $\text{O}$			7581 Jul 31 12:32	0° $\text{O}$	
asc. node	7580 Aug 21 04:20	25° $\text{O}$ 10'43		morning set	7581 Aug 06 03:05	11° $\text{O}$ 08'05	
morning set	7580 Aug 21 22:29	26° $\text{O}$ 45'51		asc. node	7581 Aug 08 01:19	15° $\text{O}$ 10'05	
	7580 Aug 23 11:01	0° $\text{P}$		max. Earth dist.	7581 Aug 12 03:01	23° $\text{O}$ 57'32	1.31863 AU
superior conj	7580 Aug 28 23:06	12° $\text{P}$ 04'01	1°12'23	superior conj	7581 Aug 13 10:01	26° $\text{O}$ 47'58	0°52'36
minimum elong	7580 Aug 28 20:51	11° $\text{P}$ 51'29	1°12'00	minimum elong	7581 Aug 13 07:59	26° $\text{O}$ 36'44	0°52'11
max. Earth dist.	7580 Aug 28 17:26	11° $\text{P}$ 32'32	1.31721 AU		7581 Aug 14 20:49	0° $\text{P}$	
evening rise	7580 Sep 04 18:02	26° $\text{P}$ 55'17		evening rise	7581 Aug 20 04:31	11° $\text{P}$ 37'49	
	7580 Sep 06 05:08	0° $\text{A}$			7581 Aug 29 10:38	0° $\text{A}$	
	7580 Sep 23 03:07	0° $\text{M}$		desc. node	7581 Sep 12 02:49	20° $\text{A}$ 18'44	
desc. node	7580 Sep 25 05:47	2° $\text{M}$ 57'15		evening max el	7581 Sep 15 21:06	24° $\text{A}$ 17'12	25°13'45
evening max el	7580 Oct 04 03:57	13° $\text{M}$ 17'42	26°30'10		7581 Sep 23 22:41	0° $\text{M}$	
retrograde	7580 Oct 18 01:55	20° $\text{M}$ 24'12		retrograde	7581 Sep 29 18:35	1° $\text{M}$ 18'31	
evening set	7580 Oct 24 18:47	18° $\text{M}$ 33'05		evening set	7581 Oct 05 13:27	0° $\text{M}$ 01'56	
min. Earth dist.	7580 Oct 28 17:27	15° $\text{M}$ 58'15	0.59460 AU		7581 Oct 05 15:14	30° $\text{R}$ $\triangle$	
inferior conj	7580 Oct 31 22:28	13° $\text{M}$ 28'58	-4°37'34	min. Earth dist.	7581 Oct 10 08:42	27° $\triangle$ 21'42	0.57448 AU
minimum elong	7580 Nov 01 05:26	13° $\text{M}$ 15'25	4°35'54	inferior conj	7581 Oct 13 07:28	25° $\triangle$ 22'31	-5°21'10
morning rise	7580 Nov 08 18:20	8° $\text{M}$ 53'16		minimum elong	7581 Oct 13 11:38	25° $\triangle$ 15'29	5°20'42
direct	7580 Nov 11 00:38	8° $\text{M}$ 35'02		morning rise	7581 Oct 21 12:07	21° $\triangle$ 09'59	
asc. node	7580 Nov 17 03:47	10° $\text{M}$ 57'11		direct	7581 Oct 23 23:06	20° $\triangle$ 52'11	
morning max el	7580 Nov 18 19:36	12° $\text{M}$ 24'01	18°17'52	morning max el	7581 Nov 01 21:46	25° $\triangle$ 07'40	19°03'27
	7580 Nov 30 14:10	0° $\text{X}$		asc. node	7581 Nov 04 00:48	27° $\triangle$ 23'03	
morning set	7580 Dec 04 15:41	7° $\text{X}$ 37'51			7581 Nov 06 02:28	0° $\text{M}$	
				morning set	7581 Nov 18 14:45	21° $\text{M}$ 57'19	
superior conj	7580 Dec 13 22:16	25° $\text{X}$ 02'15	0°58'38		7581 Nov 22 16:10	0° $\text{X}$	
minimum elong	7580 Dec 14 01:47	25° $\text{X}$ 18'15	0°58'16				
	7580 Dec 16 16:20	0° $\text{Z}$		superior conj	7581 Nov 26 22:08	8° $\text{X}$ 17'31	1°21'25
max. Earth dist.	7580 Dec 21 12:31	8° $\text{Z}$ 26'26	1.40943 AU	minimum elong	7581 Nov 27 01:13	8° $\text{X}$ 32'19	1°21'11
desc. node	7580 Dec 22 04:55	9° $\text{Z}$ 36'10		max. Earth dist.	7581 Dec 03 18:15	21° $\text{X}$ 00'40	1.38794 AU
evening rise	7580 Dec 26 04:00	16° $\text{Z}$ 12'18		evening rise	7581 Dec 07 13:41	27° $\text{X}$ 42'52	
	7581 Jan 03 21:31	0° $\approx$			7581 Dec 08 21:44	0° $\text{Z}$	
	7581 Jan 25 17:20	0° $\text{H}$		desc. node	7581 Dec 09 01:54	0° $\text{Z}$ 17'43	
evening max el	7581 Jan 29 09:11	3° $\text{H}$ 57'52	23°18'29		7581 Dec 28 09:37	0° $\approx$	
retrograde	7581 Feb 08 20:42	10° $\text{H}$ 09'54		evening max el	7582 Jan 11 22:28	17° $\approx$ 42'20	24°37'34
asc. node	7581 Feb 13 02:57	8° $\text{H}$ 39'56		retrograde	7582 Jan 23 11:49	24° $\approx$ 27'26	
evening set	7581 Feb 13 20:24	8° $\text{H}$ 05'47		evening set	7582 Jan 29 00:08	22° $\approx$ 09'32	
inferior conj	7581 Feb 19 06:05	1° $\text{H}$ 39'46	1°54'19	asc. node	7582 Jan 31 00:00	20° $\approx$ 10'39	

min. Earth dist.	7582 Feb 02 14:18	16°  56'58	0.67886 AU	min. Earth dist.	7583 Jan 17 06:40	1°  28'53	0.67107 AU
inferior conj	7582 Feb 03 13:02	15°  41'17	1°09'07	asc. node	7583 Jan 17 21:04	0°  43'38	
minimum elong	7582 Feb 03 11:29	15°  46'26	1°08'35		7583 Jan 18 10:51	30°  R 	
morning rise	7582 Feb 08 23:01	9°  41'46		inferior conj	7583 Jan 18 16:41	29°  41'32	0°16'23
direct	7582 Feb 12 16:55	8°  21'23		minimum elong	7583 Jan 18 16:15	29°  42'53	0°16'18
morning max el	7582 Feb 20 04:55	12°  34'16	19°54'35	morning rise	7583 Jan 24 09:38	23°  50'28	
greatest brilliancy	7582 Mar 05 22:31	0°  X  32'42	-0.6m	direct	7583 Jan 27 15:56	22°  49'28	
	7582 Mar 05 13:36	0°  X		morning max el	7583 Feb 03 12:09	26°  34'45	18°57'53
desc. node	7582 Mar 07 01:22	2°  X  11'45			7583 Feb 06 13:35	0°  X	
morning set	7582 Mar 18 19:32	20°  X  00'53		desc. node	7583 Feb 21 22:20	22°  25'18	
	7582 Mar 25 05:44	0°  Y		morning set	7583 Feb 26 01:03	28°  48'57	
max. Earth dist.	7582 Mar 29 20:24	7°  Y  17'02	1.44230 AU		7583 Feb 26 19:18	0°  X	
				max. Earth dist.	7583 Mar 12 12:12	21°  X  24'20	1.45214 AU
superior conj	7582 Apr 04 01:34	15°  Y  40'19	-2°11'01	superior conj	7583 Mar 14 14:44	24°  X  43'03	-1°57'12
minimum elong	7582 Apr 04 00:18	15°  Y  35'12	2°11'02	minimum elong	7583 Mar 14 06:51	24°  X  12'02	1°56'41
	7582 Apr 12 17:10	0°  8			7583 Mar 17 22:57	0°  Y	
evening rise	7582 Apr 17 08:16	7°  8  51'55		evening rise	7583 Mar 29 13:55	18°  Y  40'58	
asc. node	7582 Apr 28 23:03	27°  8  11'49			7583 Apr 05 12:48	0°  8	
	7582 Apr 30 20:47	0°  II		asc. node	7583 Apr 15 20:06	15°  8  28'36	
evening max el	7582 May 05 07:31	5°  II  26'17	18°10'14	evening max el	7583 Apr 18 19:52	18°  8  55'01	18°32'30
retrograde	7582 May 11 17:00	8°  II  48'14		retrograde	7583 Apr 25 08:09	22°  8  28'02	
evening set	7582 May 14 13:42	8°  II  05'43		evening set	7583 Apr 28 11:59	21°  8  31'55	
inferior conj	7582 May 20 16:36	2°  II  50'04	3°06'28	inferior conj	7583 May 04 05:33	15°  8  58'55	3°23'21
minimum elong	7582 May 20 18:42	2°  II  44'22	3°06'03	minimum elong	7583 May 04 06:15	15°  8  56'49	3°23'15
	7582 May 23 07:32	30°  R  8		min. Earth dist.	7583 May 06 07:56	13°  8  28'28	0.64897 AU
min. Earth dist.	7582 May 23 10:00	29°  8  53'34	0.62987 AU	morning rise	7583 May 09 23:43	9°  8  43'21	
morning rise	7582 May 26 22:12	26°  8  40'42		direct	7583 May 16 15:25	6°  8  56'46	
direct	7582 Jun 02 17:04	24°  8  06'07		desc. node	7583 May 20 21:50	7°  8  54'51	
desc. node	7582 Jun 03 00:49	24°  8  06'27		morning max el	7583 May 30 03:04	14°  8  52'22	27°14'22
	7582 Jun 14 10:55	0°  II			7583 Jun 11 11:04	0°  II	
morning max el	7582 Jun 16 17:10	2°  II  08'55	27°50'02		7583 Jun 30 00:09	0°  8	
	7582 Jul 07 07:00	0°  8		morning set	7583 Jul 04 14:37	8°  8  41'07	
morning set	7582 Jul 21 01:23	25°  8  09'13		max. Earth dist.	7583 Jul 09 03:55	17°  8  46'31	1.33548 AU
	7582 Jul 23 10:19	0°  8  15'05		superior conj	7583 Jul 12 21:41	25°  8  33'48	0°01'00
asc. node	7582 Jul 25 22:19	5°  8  15'05		minimum elong	7583 Jul 12 21:38	25°  8  33'34	0°00'53
max. Earth dist.	7582 Jul 26 07:44	6°  8  05'13	1.32463 AU	behind sun begin	7583 Jul 12 16:05	25°  8  04'18	
superior conj	7582 Jul 28 18:14	11°  8  19'59	0°28'37	behind sun end	7583 Jul 13 03:11	26°  8  02'53	
minimum elong	7582 Jul 28 16:55	11°  8  12'55	0°28'16	asc. node	7583 Jul 12 19:19	25°  8  21'21	
evening rise	7582 Aug 04 16:12	26°  8  20'38			7583 Jul 14 23:47	0°  8  15'02	
	7582 Aug 06 09:43	0°  8  17'02		evening rise	7583 Jul 20 03:12	10°  8  57'47	
	7582 Aug 24 02:49	0°  8  15'06			7583 Jul 29 22:34	0°  8  17'02	
evening max el	7582 Aug 28 08:56	4°  8  40'03	23°38'30	evening max el	7583 Aug 09 23:11	14°  8  57'03	22°00'32
desc. node	7582 Aug 29 23:52	6°  8  09'13		desc. node	7583 Aug 16 20:57	19°  8  56'27	
retrograde	7582 Sep 10 23:25	11°  8  28'56		retrograde	7583 Aug 22 16:08	21°  8  15'37	
evening set	7582 Sep 15 08:05	10°  8  47'16		evening set	7583 Aug 25 13:46	20°  8  56'52	
min. Earth dist.	7582 Sep 21 19:02	7°  8  43'02	0.55800 AU	min. Earth dist.	7583 Sep 03 03:54	17°  8  14'22	0.54848 AU
inferior conj	7582 Sep 23 20:22	6°  8  29'19	-5°28'42	inferior conj	7583 Sep 03 17:27	16°  8  55'23	-4°43'55
minimum elong	7582 Sep 23 17:53	6°  8  33'02	5°28'33	minimum elong	7583 Sep 03 08:49	17°  8  07'29	4°42'06
morning rise	7582 Oct 02 05:56	2°  8  35'08		morning rise	7583 Sep 12 05:17	13°  8  06'29	
direct	7582 Oct 05 02:06	2°  8  15'06		direct	7583 Sep 15 14:21	12°  8  41'12	
morning max el	7582 Oct 15 12:17	7°  8  07'58	20°11'17	morning max el	7583 Sep 27 13:56	18°  8  19'17	21°40'05
asc. node	7582 Oct 21 21:49	14°  8  52'12			7583 Oct 06 20:25	0°  8  09'33	
	7582 Oct 30 13:43	0°  8  13'43		asc. node	7583 Oct 08 18:49	3°  8  09'33	
morning set	7582 Nov 02 20:16	6°  8  13'43		morning set	7583 Oct 18 05:44	21°  8  20'43	
superior conj	7582 Nov 10 11:41	22°  8  12'15	1°35'19		7583 Oct 22 08:08	0°  8  13'43	
minimum elong	7582 Nov 10 13:34	22°  8  21'42	1°35'17	superior conj	7583 Oct 25 10:49	6°  8  33'34	1°41'24
	7582 Nov 14 10:20	0°  8  13'43		minimum elong	7583 Oct 25 11:18	6°  8  36'10	1°41'27
max. Earth dist.	7582 Nov 16 00:27	3°  8  03'02	1.36700 AU	max. Earth dist.	7583 Oct 29 12:37	14°  8  56'11	1.34867 AU
evening rise	7582 Nov 19 20:10	10°  8  09'34		evening rise	7583 Nov 02 19:34	23°  8  21'29	
desc. node	7582 Nov 25 22:55	20°  8  51'58			7583 Nov 06 09:04	0°  8  13'43	
	7582 Dec 01 13:30	0°  8  13'43		desc. node	7583 Nov 12 19:57	11°  8  13'18	
	7582 Dec 24 00:02	0°  8  13'43			7583 Nov 25 05:19	0°  8  13'18	
evening max el	7582 Dec 25 11:26	1°  8  28'56	25°49'12	evening max el	7583 Dec 08 00:43	15°  8	

evening set	7583 Dec 27 16:14	19° $\text{♄}$ 52'38		evening max el	7584 Nov 19 13:25	28° $\text{♄}$ 37'58	27°20'54
min. Earth dist.	7583 Dec 31 17:23	15° $\text{♄}$ 49'12	0.65966 AU		7584 Nov 21 01:12	0° $\text{♄}$	
inferior conj	7584 Jan 02 14:55	13° $\text{♄}$ 35'42	-0°43'11	retrograde	7584 Dec 03 01:54	5° $\text{♄}$ 56'59	
minimum elong	7584 Jan 02 16:08	13° $\text{♄}$ 32'07	0°42'33	evening set	7584 Dec 10 00:23	3° $\text{♄}$ 20'50	
asc. node	7584 Jan 04 18:08	11° $\text{♄}$ 10'39			7584 Dec 13 16:41	30° $\text{♄}$	
morning rise	7584 Jan 08 16:59	7° $\text{♄}$ 55'35		min. Earth dist.	7584 Dec 13 20:06	29° $\text{♄}$ 51'08	0.64478 AU
direct	7584 Jan 11 13:32	7° $\text{♄}$ 10'28		inferior conj	7584 Dec 16 05:21	27° $\text{♄}$ 18'15	-1°48'20
morning max el	7584 Jan 18 01:26	10° $\text{♄}$ 39'35	18°17'33	minimum elong	7584 Dec 16 08:39	27° $\text{♄}$ 09'26	1°46'53
	7584 Jan 31 18:48	0° $\text{♄}$		asc. node	7584 Dec 21 15:12	22° $\text{♄}$ 27'19	
morning set	7584 Feb 06 09:11	8° $\text{♄}$ 59'38		morning rise	7584 Dec 22 18:24	21° $\text{♄}$ 52'11	
desc. node	7584 Feb 08 19:19	12° $\text{♄}$ 53'06		direct	7584 Dec 25 07:15	21° $\text{♄}$ 19'10	
	7584 Feb 19 13:55	0° $\text{♄}$		morning max el	7584 Dec 31 18:09	24° $\text{♄}$ 42'18	17°54'13
					7585 Jan 05 03:05	0° $\text{♄}$	
superior conj	7584 Feb 21 19:04	3° $\text{♄}$ 28'47	-1°24'19	morning set	7585 Jan 17 22:27	20° $\text{♄}$ 36'33	
minimum elong	7584 Feb 21 09:51	2° $\text{♄}$ 52'35	1°23'14		7585 Jan 23 13:15	0° $\text{♄}$	
max. Earth dist.	7584 Feb 23 07:31	5° $\text{♄}$ 51'39	1.45473 AU	desc. node	7585 Jan 25 16:17	3° $\text{♄}$ 30'38	
evening rise	7584 Mar 08 20:35	28° $\text{♄}$ 35'58					
	7584 Mar 09 18:03	0° $\text{♄}$		superior conj	7585 Jan 31 10:10	12° $\text{♄}$ 50'38	-0°40'26
greatest brilliancy	7584 Mar 19 22:23	15° $\text{♄}$ 50'41	-0.8m	minimum elong	7585 Jan 31 05:28	12° $\text{♄}$ 31'46	0°39'42
	7584 Mar 29 23:02	0° $\text{♄}$		max. Earth dist.	7585 Feb 05 03:14	20° $\text{♄}$ 20'43	1.44987 AU
evening max el	7584 Apr 01 04:57	2° $\text{♄}$ 29'51	19°12'09		7585 Feb 11 07:14	0° $\text{♄}$	
asc. node	7584 Apr 01 17:11	3° $\text{♄}$ 00'06		evening rise	7585 Feb 16 10:57	7° $\text{♄}$ 57'37	
retrograde	7584 Apr 08 04:16	6° $\text{♄}$ 25'58			7585 Mar 03 01:32	0° $\text{♄}$	
evening set	7584 Apr 11 15:43	5° $\text{♄}$ 15'29		greatest brilliancy	7585 Mar 03 06:33	0° $\text{♄}$ 18'18	-0.6m
	7584 Apr 16 16:53	30° $\text{♄}$		evening max el	7585 Mar 15 09:02	16° $\text{♄}$ 06'27	20°07'24
inferior conj	7584 Apr 17 03:18	29° $\text{♄}$ 26'33	3°24'01	asc. node	7585 Mar 19 14:16	19° $\text{♄}$ 32'42	
minimum elong	7584 Apr 17 02:42	29° $\text{♄}$ 28'28	3°23'57	retrograde	7585 Mar 23 02:33	20° $\text{♄}$ 35'50	
min. Earth dist.	7584 Apr 18 14:16	27° $\text{♄}$ 33'58	0.66413 AU	evening set	7585 Mar 26 22:30	19° $\text{♄}$ 10'30	
morning rise	7584 Apr 22 13:18	23° $\text{♄}$ 09'24		inferior conj	7585 Apr 01 06:54	13° $\text{♄}$ 07'29	3°11'48
direct	7584 Apr 28 20:20	20° $\text{♄}$ 23'28		minimum elong	7585 Apr 01 05:20	13° $\text{♄}$ 12'48	3°11'33
desc. node	7584 May 06 18:52	23° $\text{♄}$ 42'41		min. Earth dist.	7585 Apr 02 03:24	11° $\text{♄}$ 58'05	0.67494 AU
morning max el	7584 May 11 13:12	27° $\text{♄}$ 57'52	26°11'13	morning rise	7585 Apr 06 11:56	6° $\text{♄}$ 51'19	
	7584 May 13 11:32	0° $\text{♄}$		direct	7585 Apr 12 06:46	4° $\text{♄}$ 16'21	
	7584 Jun 04 04:26	0° $\text{♄}$		desc. node	7585 Apr 23 15:52	10° $\text{♄}$ 58'26	
morning set	7584 Jun 16 15:15	21° $\text{♄}$ 34'00		morning max el	7585 Apr 23 22:28	11° $\text{♄}$ 15'02	24°49'51
max. Earth dist.	7584 Jun 20 13:25	29° $\text{♄}$ 01'54	1.35110 AU		7585 May 08 21:30	0° $\text{♄}$	
	7584 Jun 21 01:20	0° $\text{♄}$			7585 May 27 21:34	0° $\text{♄}$	
				morning set	7585 May 29 22:27	3° $\text{♄}$ 34'13	
superior conj	7584 Jun 25 17:56	9° $\text{♄}$ 22'47	-0°29'17	max. Earth dist.	7585 Jun 02 13:22	10° $\text{♄}$ 06'10	1.37079 AU
minimum elong	7584 Jun 25 19:37	9° $\text{♄}$ 31'21	0°29'04				
asc. node	7584 Jun 28 16:21	15° $\text{♄}$ 25'17		superior conj	7585 Jun 09 03:49	22° $\text{♄}$ 37'39	-1°00'44
evening rise	7584 Jul 03 11:31	25° $\text{♄}$ 23'27		minimum elong	7585 Jun 09 07:28	22° $\text{♄}$ 55'30	1°00'12
	7584 Jul 05 17:39	0° $\text{♄}$			7585 Jun 12 21:14	0° $\text{♄}$	
evening max el	7584 Jul 21 23:39	25° $\text{♄}$ 41'01	20°34'01	asc. node	7585 Jun 15 13:22	5° $\text{♄}$ 22'01	
	7584 Jul 27 21:59	0° $\text{♄}$		evening rise	7585 Jun 17 14:41	9° $\text{♄}$ 29'47	
retrograde	7584 Aug 02 04:12	1° $\text{♄}$ 12'29			7585 Jun 28 20:50	0° $\text{♄}$	
desc. node	7584 Aug 02 18:02	1° $\text{♄}$ 11'39		evening max el	7585 Jul 04 13:06	7° $\text{♄}$ 07'18	19°26'22
evening set	7584 Aug 04 05:14	1° $\text{♄}$ 02'12		retrograde	7585 Jul 14 00:43	11° $\text{♄}$ 47'49	
	7584 Aug 07 18:43	30° $\text{♄}$		evening set	7585 Jul 15 21:41	11° $\text{♄}$ 37'39	
inferior conj	7584 Aug 13 10:26	27° $\text{♄}$ 05'09	-3°09'13	desc. node	7585 Jul 20 15:06	9° $\text{♄}$ 53'28	
minimum elong	7584 Aug 13 02:04	27° $\text{♄}$ 17'11	3°06'28	inferior conj	7585 Jul 24 13:50	7° $\text{♄}$ 30'57	-1°12'12
min. Earth dist.	7584 Aug 14 13:44	26° $\text{♄}$ 25'50	0.54813 AU	minimum elong	7585 Jul 24 10:35	7° $\text{♄}$ 36'12	1°11'02
morning rise	7584 Aug 21 22:27	23° $\text{♄}$ 01'52		min. Earth dist.	7585 Jul 27 02:28	5° $\text{♄}$ 53'19	0.55715 AU
direct	7584 Aug 25 23:27	22° $\text{♄}$ 26'49		morning rise	7585 Aug 01 20:54	2° $\text{♄}$ 55'20	
morning max el	7584 Sep 08 05:47	28° $\text{♄}$ 50'49	23°23'08	direct	7585 Aug 06 17:15	2° $\text{♄}$ 02'20	
	7584 Sep 09 10:13	0° $\text{♄}$		morning max el	7585 Aug 20 18:33	9° $\text{♄}$ 06'25	25°07'13
asc. node	7584 Sep 24 15:50	22° $\text{♄}$ 03'36			7585 Sep 05 08:18	0° $\text{♄}$	
	7584 Sep 28 17:40	0° $\text{♄}$		asc. node	7585 Sep 11 12:50	11° $\text{♄}$ 24'42	
morning set	7584 Oct 01 17:09	6° $\text{♄}$ 11'12		morning set	7585 Sep 16 04:49	21° $\text{♄}$ 00'31	
					7585 Sep 20 08:20	0° $\text{♄}$	
superior conj	7584 Oct 08 16:25	21° $\text{♄}$ 12'21	1°40'38				
minimum elong	7584 Oct 08 15:41	21° $\text{♄}$ 08'24	1°40'39	superior conj	7585 Sep 23 02:00	6° $\text{♄}$ 00'56	1°33'51
max. Earth dist.	7584 Oct 11 09:12	26° $\text{♄}$ 58'02	1.33418 AU	minimum elong	7585 Sep 23 00:21	5° $\text{♄}$ 51'53	1°33'44
	7584 Oct 12 19:55	0° $\text{♄}$		max. Earth dist.	7585 Sep 24 13:21	9° $\text{♄}$ 14'23	1.32401 AU
evening rise	7584 Oct 16 07:58	7° $\text{♄}$ 08'13		evening rise	7585 Sep 30 05:53	21° $\text{♄}$ 20'29	
	7584 Oct 28 22:26	0° $\text{♄}$			7585 Oct 04 14:02	0° $\text{♄}$	
desc. node	7584 Oct 29 17:00	1° $\text{♄}$ 15'32		desc. node	7585 Oct 16 14:04	20° $\text{♄}$ 50'38	

	7585 Oct 22 22:11	0°♊				7586 Sep 27 04:11	0°♍	
evening max el	7585 Nov 01 23:36	11°♊36'52	27°27'18	desc. node		7586 Oct 03 11:08	9°♍47'10	
retrograde	7585 Nov 15 17:55	18°♊52'47		evening max el		7586 Oct 15 04:45	23°♍55'01	27°00'46
evening set	7585 Nov 22 20:52	16°♊25'16				7586 Oct 23 22:44	0°♊	
min. Earth dist.	7585 Nov 26 13:00	13°♊25'05	0.62676 AU	retrograde		7586 Oct 29 02:18	1°♊05'42	
inferior conj	7585 Nov 29 09:10	10°♊42'20	-2°56'38			7586 Nov 03 02:01	30°♍	
minimum elong	7585 Nov 29 14:38	10°♊29'12	2°54'32	evening set		7586 Nov 05 01:45	28°♍58'04	
morning rise	7585 Dec 06 10:24	5°♊33'36		min. Earth dist.		7586 Nov 08 19:18	26°♍17'58	0.60654 AU
direct	7585 Dec 08 18:00	5°♊09'03		inferior conj		7586 Nov 11 23:00	23°♍38'51	-4°03'17
asc. node	7585 Dec 08 12:15	5°♊09'19		minimum elong		7586 Nov 12 05:58	23°♍24'09	4°01'11
morning max el	7585 Dec 15 11:15	8°♊35'26	17°48'30	morning rise		7586 Nov 19 12:29	18°♍50'27	
	7585 Dec 29 13:42	0°♊		direct		7586 Nov 21 17:57	18°♍30'56	
morning set	7585 Dec 31 11:24	3°♊21'44		asc. node		7586 Nov 25 09:16	19°♍25'28	
				morning max el		7586 Nov 29 01:20	22°♍09'21	18°01'23
superior conj	7586 Jan 12 01:04	23°♊23'16	0°03'43			7586 Dec 05 02:47	0°♊	
minimum elong	7586 Jan 12 01:27	23°♊24'50	0°03'46	morning set		7586 Dec 14 17:29	16°♊54'45	
behind sun begin	7586 Jan 11 16:35	22°♊47'39				7586 Dec 21 20:22	0°♊	
behind sun end	7586 Jan 12 10:18	24°♊01'55						
desc. node	7586 Jan 12 13:16	24°♊14'21		superior conj		7586 Dec 24 17:24	5°♊08'30	0°41'11
	7586 Jan 16 00:51	0°♊		minimum elong		7586 Dec 24 20:27	5°♊22'00	0°40'51
max. Earth dist.	7586 Jan 18 20:11	4°♊33'23	1.43814 AU	desc. node		7586 Dec 30 10:15	15°♊00'02	
evening rise	7586 Jan 26 22:55	17°♊21'33		max. Earth dist.		7587 Jan 01 08:09	18°♊12'29	1.42098 AU
	7586 Feb 04 06:27	0°♊		evening rise		7587 Jan 06 23:04	27°♊22'05	
evening max el	7586 Feb 26 07:36	29°♊44'34	21°15'29			7587 Jan 08 14:53	0°♊	
	7586 Feb 26 13:43	0°♊				7587 Jan 29 00:02	0°♊	
asc. node	7586 Mar 06 11:20	4°♊52'07		evening max el		7587 Feb 09 01:15	13°♊24'32	22°32'26
retrograde	7586 Mar 07 00:52	4°♊53'45		retrograde		7587 Feb 18 21:22	19°♊14'53	
evening set	7586 Mar 11 06:30	3°♊13'24		asc. node		7587 Feb 21 08:24	18°♊44'04	
	7586 Mar 14 08:05	30°♊		evening set		7587 Feb 23 14:02	17°♊19'30	
inferior conj	7586 Mar 16 13:59	26°♊58'48	2°48'54	inferior conj		7587 Feb 28 22:29	10°♊56'35	2°16'42
minimum elong	7586 Mar 16 11:51	27°♊06'14	2°48'24	minimum elong		7587 Feb 28 20:12	11°♊04'30	2°16'03
min. Earth dist.	7586 Mar 16 21:21	26°♊33'15	0.68137 AU	min. Earth dist.		7587 Feb 28 17:47	11°♊12'56	0.68357 AU
morning rise	7586 Mar 21 17:00	20°♊45'16		morning rise		7587 Mar 06 02:13	4°♊47'10	
direct	7586 Mar 26 22:03	18°♊28'13		direct		7587 Mar 10 17:07	2°♊51'41	
morning max el	7586 Apr 06 07:50	24°♊39'39	23°20'28	morning max el		7587 Mar 19 20:13	8°♊11'47	21°52'42
desc. node	7586 Apr 10 12:50	29°♊18'12		desc. node		7587 Mar 28 09:48	18°♊23'46	
	7586 Apr 11 02:51	0°♊				7587 Apr 05 17:24	0°♊	
	7586 May 02 08:31	0°♊		morning set		7587 Apr 21 11:26	24°♊04'21	
morning set	7586 May 11 06:42	14°♊27'55				7587 Apr 25 03:08	0°♊	
max. Earth dist.	7586 May 15 09:06	21°♊28'47	1.39291 AU	max. Earth dist.		7587 Apr 27 07:46	3°♊37'33	1.41485 AU
	7586 May 20 04:07	0°♊						
superior conj	7586 May 22 23:34	5°♊09'38	-1°30'48	superior conj		7587 May 05 00:37	16°♊48'35	-1°55'40
minimum elong	7586 May 23 04:51	5°♊34'14	1°30'11	minimum elong		7587 May 05 06:01	17°♊12'22	1°55'18
evening rise	7586 Jun 01 09:52	23°♊09'24				7587 May 12 08:27	0°♊	
asc. node	7586 Jun 02 10:23	25°♊07'35		evening rise		7587 May 15 17:26	6°♊13'22	
	7586 Jun 04 23:47	0°♊		asc. node		7587 May 20 07:26	14°♊37'13	
evening max el	7586 Jun 17 13:53	19°♊15'59	18°39'27			7587 May 30 02:40	0°♊	
retrograde	7586 Jun 25 14:23	23°♊14'30		evening max el		7587 May 31 22:23	1°♊59'06	18°12'53
evening set	7586 Jun 27 16:20	22°♊59'22		retrograde		7587 Jun 07 22:44	5°♊30'56	
inferior conj	7586 Jul 05 13:02	18°♊34'53	0°34'54	evening set		7587 Jun 10 08:11	5°♊06'58	
minimum elong	7586 Jul 05 14:19	18°♊32'26	0°34'19	inferior conj		7587 Jun 17 09:48	0°♊22'02	1°55'25
desc. node	7586 Jul 07 12:09	17°♊05'39		minimum elong		7587 Jun 17 12:53	0°♊15'15	1°54'23
min. Earth dist.	7586 Jul 08 19:44	16°♊07'32	0.57386 AU			7587 Jun 17 19:46	30°♊	
morning rise	7586 Jul 13 08:48	13°♊22'09		min. Earth dist.		7587 Jun 20 19:03	27°♊24'33	0.59515 AU
direct	7586 Jul 19 01:40	12°♊01'13		desc. node		7587 Jun 24 09:11	24°♊47'26	
morning max el	7586 Aug 02 10:27	19°♊34'52	26°35'32	morning rise		7587 Jun 24 14:36	24°♊39'24	
	7586 Aug 11 07:18	0°♊		direct		7587 Jun 30 23:45	22°♊46'00	
	7586 Aug 28 21:00	0°♊				7587 Jul 14 16:58	0°♊	
asc. node	7586 Aug 29 09:48	1°♊05'22		morning max el		7587 Jul 15 08:32	0°♊37'46	27°33'58
morning set	7586 Aug 31 15:05	5°♊43'31				7587 Aug 05 10:13	0°♊	
				morning set		7587 Aug 15 22:18	20°♊15'11	
superior conj	7586 Sep 07 13:32	20°♊52'40	1°21'40	asc. node		7587 Aug 16 06:46	20°♊59'37	
minimum elong	7586 Sep 07 11:22	20°♊40'40	1°21'23			7587 Aug 20 11:15	0°♊	
max. Earth dist.	7586 Sep 07 22:20	21°♊41'24	1.31834 AU	max. Earth dist.		7587 Aug 22 08:42	4°♊10'20	1.31719 AU
	7586 Sep 11 17:03	0°♊						
evening rise	7586 Sep 14 10:28	5°♊50'11		superior conj		7587 Aug 23 01:12	5°♊41'37	1°04'34
				minimum elong		7587 Aug 22 22:58	5°♊29'17	1°04'09

evening rise	7587 Aug 29 19:25	20° $\mathbb{M}$ 30'27		evening rise	7588 Aug 13 06:39	5° $\mathbb{M}$ 13'58	
	7587 Sep 03 09:45	0° $\mathbb{A}$			7588 Aug 26 07:02	0° $\mathbb{A}$	
desc. node	7587 Sep 20 08:11	27° $\mathbb{A}$ 49'46		desc. node	7588 Sep 06 05:16	14° $\mathbb{A}$ 36'08	
	7587 Sep 22 02:10	0° $\mathbb{M}$		evening max el	7588 Sep 07 17:11	16° $\mathbb{A}$ 06'11	24°34'43
evening max el	7587 Sep 27 02:45	5° $\mathbb{M}$ 24'35	26°01'03	retrograde	7588 Sep 21 12:41	23° $\mathbb{A}$ 02'49	
retrograde	7587 Oct 11 01:19	12° $\mathbb{M}$ 29'13		evening set	7588 Sep 26 18:10	22° $\mathbb{A}$ 01'57	
evening set	7587 Oct 17 10:14	10° $\mathbb{M}$ 52'23		min. Earth dist.	7588 Oct 02 04:13	19° $\mathbb{A}$ 13'38	0.56687 AU
min. Earth dist.	7587 Oct 21 15:38	8° $\mathbb{M}$ 17'20	0.58577 AU	inferior conj	7588 Oct 04 19:44	17° $\mathbb{A}$ 32'34	-5°29'55
inferior conj	7587 Oct 24 19:25	5° $\mathbb{M}$ 58'48	-4°59'18	minimum elong	7588 Oct 04 21:26	17° $\mathbb{A}$ 29'51	5°29'49
minimum elong	7587 Oct 25 01:42	5° $\mathbb{M}$ 47'16	4°58'06	morning rise	7588 Oct 13 02:52	13° $\mathbb{A}$ 28'34	
morning rise	7587 Nov 01 19:27	1° $\mathbb{M}$ 32'47		direct	7588 Oct 15 17:27	13° $\mathbb{A}$ 09'58	
direct	7587 Nov 04 03:01	1° $\mathbb{M}$ 15'08		morning max el	7588 Oct 25 06:15	17° $\mathbb{A}$ 40'07	19°29'33
asc. node	7587 Nov 12 06:16	5° $\mathbb{M}$ 08'21		asc. node	7588 Oct 29 03:16	22° $\mathbb{A}$ 02'39	
morning max el	7587 Nov 12 08:52	5° $\mathbb{M}$ 14'35	18°34'28		7588 Nov 03 09:14	0° $\mathbb{M}$	
	7587 Nov 27 22:54	0° $\mathbb{A}$		morning set	7588 Nov 11 13:44	15° $\mathbb{M}$ 29'15	
morning set	7587 Nov 28 11:32	1° $\mathbb{A}$ 01'05			7588 Nov 18 19:27	0° $\mathbb{A}$	
superior conj	7587 Dec 07 07:16	17° $\mathbb{A}$ 55'14	1°09'25	superior conj	7588 Nov 19 13:30	1° $\mathbb{A}$ 28'50	1°28'20
minimum elong	7587 Dec 07 10:45	18° $\mathbb{A}$ 11'27	1°09'06	minimum elong	7588 Nov 19 16:08	1° $\mathbb{A}$ 41'41	1°28'11
	7587 Dec 13 23:24	0° $\mathbb{A}$		max. Earth dist.	7588 Nov 25 21:25	13° $\mathbb{A}$ 31'30	1.37890 AU
max. Earth dist.	7587 Dec 14 15:39	1° $\mathbb{A}$ 11'00	1.40046 AU	evening rise	7588 Nov 29 14:58	20° $\mathbb{A}$ 14'53	
desc. node	7587 Dec 17 07:15	5° $\mathbb{A}$ 44'25		desc. node	7588 Dec 03 04:17	26° $\mathbb{A}$ 23'37	
evening rise	7587 Dec 18 20:02	8° $\mathbb{A}$ 19'18			7588 Dec 05 08:01	0° $\mathbb{A}$	
	7588 Jan 01 15:10	0° $\mathbb{A}$			7588 Dec 25 16:58	0° $\mathbb{A}$	
evening max el	7588 Jan 22 15:45	27° $\mathbb{A}$ 08'08	23°52'36	evening max el	7589 Jan 04 04:56	10° $\mathbb{A}$ 54'54	25°09'22
	7588 Jan 25 19:19	0° $\mathbb{A}$		retrograde	7589 Jan 16 03:47	17° $\mathbb{A}$ 49'55	
retrograde	7588 Feb 02 14:42	3° $\mathbb{A}$ 35'02		evening set	7589 Jan 21 21:40	15° $\mathbb{A}$ 26'55	
evening set	7588 Feb 07 19:36	1° $\mathbb{A}$ 25'08		asc. node	7589 Jan 25 02:32	12° $\mathbb{A}$ 04'50	
asc. node	7588 Feb 08 05:28	1° $\mathbb{A}$ 03'24		min. Earth dist.	7589 Jan 26 08:51	10° $\mathbb{A}$ 29'07	0.67606 AU
	7588 Feb 09 06:59	30° $\mathbb{R}$		inferior conj	7589 Jan 27 12:21	8° $\mathbb{A}$ 59'31	0°47'38
min. Earth dist.	7588 Feb 12 14:22	25° $\mathbb{A}$ 52'43	0.68174 AU	minimum elong	7589 Jan 27 11:13	9° $\mathbb{A}$ 03'13	0°47'16
inferior conj	7588 Feb 13 06:32	24° $\mathbb{A}$ 57'43	1°36'05	morning rise	7589 Feb 02 01:02	3° $\mathbb{A}$ 03'25	
minimum elong	7588 Feb 13 04:35	25° $\mathbb{A}$ 04'23	1°35'26	direct	7589 Feb 05 13:53	1° $\mathbb{A}$ 51'30	
morning rise	7588 Feb 18 13:32	18° $\mathbb{A}$ 54'05		morning max el	7589 Feb 12 18:03	5° $\mathbb{A}$ 50'42	19°28'31
direct	7588 Feb 22 14:53	17° $\mathbb{A}$ 21'03		greatest brilliancy	7589 Feb 25 15:12	22° $\mathbb{A}$ 48'37	-0.7m
morning max el	7588 Mar 01 15:04	21° $\mathbb{A}$ 55'02	20°33'52	desc. node	7589 Mar 01 03:43	28° $\mathbb{A}$ 05'33	
	7588 Mar 08 11:07	0° $\mathbb{A}$			7589 Mar 02 09:55	0° $\mathbb{A}$	
desc. node	7588 Mar 14 06:45	8° $\mathbb{A}$ 02'29		morning set	7589 Mar 09 13:36	10° $\mathbb{A}$ 57'41	
	7588 Mar 28 23:26	0° $\mathbb{A}$			7589 Mar 21 18:41	0° $\mathbb{A}$	
morning set	7588 Mar 30 15:40	2° $\mathbb{A}$ 35'36		max. Earth dist.	7589 Mar 22 03:34	0° $\mathbb{A}$ 35'09	1.44737 AU
max. Earth dist.	7588 Apr 08 14:01	16° $\mathbb{A}$ 43'06	1.43379 AU	superior conj	7589 Mar 26 03:29	6° $\mathbb{A}$ 56'27	-2°07'41
superior conj	7588 Apr 15 02:27	27° $\mathbb{A}$ 24'35	-2°09'58	minimum elong	7589 Mar 25 23:11	6° $\mathbb{A}$ 39'17	2°07'32
minimum elong	7588 Apr 15 04:43	27° $\mathbb{A}$ 34'05	2°09'58	evening rise	7589 Apr 09 04:07	29° $\mathbb{A}$ 55'16	
	7588 Apr 16 15:33	0° $\mathbb{A}$			7589 Apr 09 05:15	0° $\mathbb{A}$	
evening rise	7588 Apr 27 09:01	18° $\mathbb{A}$ 31'32		asc. node	7589 Apr 23 01:34	22° $\mathbb{A}$ 23'07	
	7588 May 03 22:48	0° $\mathbb{A}$		evening max el	7589 Apr 28 00:05	28° $\mathbb{A}$ 29'45	18°17'29
asc. node	7588 May 06 04:29	3° $\mathbb{A}$ 44'47			7589 Apr 29 16:33	0° $\mathbb{A}$	
evening max el	7588 May 14 10:53	15° $\mathbb{A}$ 06'31	18°05'46	retrograde	7589 May 04 09:35	1° $\mathbb{A}$ 54'50	
retrograde	7588 May 20 22:37	18° $\mathbb{A}$ 27'39		evening set	7589 May 07 09:22	1° $\mathbb{A}$ 06'31	
evening set	7588 May 23 15:26	17° $\mathbb{A}$ 52'14			7589 May 09 01:29	30° $\mathbb{R}$	
inferior conj	7588 May 30 01:25	12° $\mathbb{A}$ 47'14	2°47'36	inferior conj	7589 May 13 07:48	25° $\mathbb{A}$ 43'00	3°15'52
minimum elong	7588 May 30 04:11	12° $\mathbb{A}$ 40'13	2°46'56	minimum elong	7589 May 13 09:19	25° $\mathbb{A}$ 38'41	3°15'37
min. Earth dist.	7588 Jun 02 02:17	9° $\mathbb{A}$ 44'04	0.61760 AU	min. Earth dist.	7589 May 15 18:51	22° $\mathbb{A}$ 56'04	0.63842 AU
morning rise	7588 Jun 05 14:58	6° $\mathbb{A}$ 45'06		morning rise	7589 May 19 08:10	19° $\mathbb{A}$ 30'19	
desc. node	7588 Jun 10 06:13	4° $\mathbb{A}$ 36'36		direct	7589 May 26 02:21	16° $\mathbb{A}$ 49'28	
direct	7588 Jun 12 08:38	4° $\mathbb{A}$ 23'05		desc. node	7589 May 28 03:14	17° $\mathbb{A}$ 02'37	
morning max el	7588 Jun 26 12:58	12° $\mathbb{A}$ 23'39	27°55'06	morning max el	7589 Jun 08 21:52	24° $\mathbb{A}$ 50'04	27°38'49
	7588 Jul 10 11:55	0° $\mathbb{A}$			7589 Jun 13 14:24	0° $\mathbb{A}$	
	7588 Jul 27 19:06	0° $\mathbb{A}$			7589 Jul 03 22:38	0° $\mathbb{A}$	
morning set	7588 Jul 30 00:28	4° $\mathbb{A}$ 28'56		morning set	7589 Jul 13 19:16	18° $\mathbb{A}$ 18'37	
asc. node	7588 Aug 02 03:45	11° $\mathbb{A}$ 01'48		max. Earth dist.	7589 Jul 18 18:25	28° $\mathbb{A}$ 27'41	1.32873 AU
max. Earth dist.	7588 Aug 04 16:41	16° $\mathbb{A}$ 29'18	1.32062 AU		7589 Jul 19 11:57	0° $\mathbb{A}$	
superior conj	7588 Aug 06 11:10	20° $\mathbb{A}$ 21'09	0°42'57	asc. node	7589 Jul 20 00:46	1° $\mathbb{A}$ 07'56	
minimum elong	7588 Aug 06 09:23	20° $\mathbb{A}$ 11'19	0°42'31	superior conj	7589 Jul 21 17:37	4° $\mathbb{A}$ 46'03	0°17'19
	7588 Aug 10 20:38	0° $\mathbb{A}$		minimum elong	7589 Jul 21 16:47	4° $\mathbb{A}$ 41'34	0°17'02

evening rise	7589 Jul 28 18:18	19°Ω55'15			7590 Jun 26 07:32	0°☿	
	7589 Aug 02 15:54	0°♊		morning set	7590 Jun 27 03:38	1°☿35'26	
evening max el	7589 Aug 20 04:45	26°♊21'07	22°56'02	max. Earth dist.	7590 Jul 01 10:19	9°☿57'50	1.34156 AU
desc. node	7589 Aug 24 02:21	29°♊38'04					
	7589 Aug 24 15:06	0°♋		superior conj	7590 Jul 05 18:18	18°☿49'55	-0°11'38
retrograde	7589 Sep 02 11:44	2°♋59'39		minimum elong	7590 Jul 05 18:56	18°☿53'14	0°11'36
evening set	7589 Sep 06 04:56	2°♋29'24		behind sun begin	7590 Jul 05 14:57	18°☿32'27	
	7589 Sep 12 01:48	30°♋♊		behind sun end	7590 Jul 05 22:56	19°☿14'03	
min. Earth dist.	7589 Sep 13 13:07	29°♊10'39	0.55298 AU	asc. node	7590 Jul 06 21:49	21°☿13'50	
inferior conj	7589 Sep 15 00:47	28°♊19'21	-5°16'31		7590 Jul 11 01:27	0°♌	
minimum elong	7589 Sep 14 19:12	28°♊27'24	5°15'51	evening rise	7590 Jul 13 04:25	4°♌28'12	
morning rise	7589 Sep 23 11:36	24°♊29'55			7590 Jul 27 06:42	0°♊	
direct	7589 Sep 26 13:01	24°♊08'04		evening max el	7590 Aug 01 22:28	6°♊45'57	21°21'41
morning max el	7589 Oct 07 15:08	29°♊18'50	20°46'52	desc. node	7590 Aug 10 23:24	12°♊23'33	
	7589 Oct 08 08:14	0°♋		retrograde	7590 Aug 14 01:41	12°♊46'45	
asc. node	7589 Oct 16 00:15	9°♋53'28		evening set	7590 Aug 16 12:04	12°♊33'06	
morning set	7589 Oct 26 21:10	0°♌10'56		inferior conj	7590 Aug 25 18:23	8°♊34'57	-4°08'42
	7589 Oct 26 19:03	0°♌		minimum elong	7590 Aug 25 08:58	8°♊48'10	4°06'10
				min. Earth dist.	7590 Aug 25 22:16	8°♊29'30	0.54707 AU
superior conj	7589 Nov 03 07:32	15°♌36'02	1°38'48	morning rise	7590 Sep 03 06:40	4°♊42'28	
minimum elong	7589 Nov 03 08:50	15°♌42'38	1°38'48	direct	7590 Sep 06 21:47	4°♊14'02	
max. Earth dist.	7589 Nov 08 05:44	25°♌27'39	1.35876 AU	morning max el	7590 Sep 19 12:11	10°♊12'17	22°22'57
	7589 Nov 10 14:22	0°♍		asc. node	7590 Oct 02 21:16	28°♊27'57	
evening rise	7589 Nov 12 05:04	3°♍01'32			7590 Oct 03 17:48	0°♋	
desc. node	7589 Nov 20 01:20	16°♍53'03		morning set	7590 Oct 11 07:41	15°♋00'08	
	7589 Nov 28 07:28	0°♌					
evening max el	7589 Dec 17 17:54	24°♌40'13	26°15'36	superior conj	7590 Oct 18 09:47	0°♌06'33	1°41'51
	7589 Dec 24 11:18	0°♍		minimum elong	7590 Oct 18 09:44	0°♌06'16	1°41'55
retrograde	7589 Dec 30 11:57	1°♍52'59			7590 Oct 18 08:33	0°♌	
	7590 Jan 04 21:44	30°♋♌		max. Earth dist.	7590 Oct 21 21:07	7°♌22'11	1.34189 AU
evening set	7590 Jan 05 18:28	29°♌20'09		evening rise	7590 Oct 26 10:27	16°♌29'56	
min. Earth dist.	7590 Jan 09 22:58	24°♌57'10	0.66666 AU		7590 Nov 02 17:41	0°♍	
inferior conj	7590 Jan 11 13:57	22°♌57'43	-0°08'07	desc. node	7590 Nov 06 22:23	7°♍07'35	
minimum elong	7590 Jan 11 14:10	22°♌57'04	0°07'55		7590 Nov 22 18:33	0°♌	
transit middle	7590 Jan 11 14:10	22°♌57'04	0°07'55	evening max el	7590 Nov 30 06:55	8°♌17'14	27°03'59
transit begin	7590 Jan 11 11:39	23°♌04'45		retrograde	7590 Dec 13 14:32	15°♌37'08	
transit end	7590 Jan 11 16:40	22°♌49'24		evening set	7590 Dec 20 07:58	13°♌00'00	
asc. node	7590 Jan 11 23:36	22°♌28'12		min. Earth dist.	7590 Dec 24 06:33	9°♌11'18	0.65368 AU
morning rise	7590 Jan 17 10:34	17°♌11'19		inferior conj	7590 Dec 26 09:11	6°♌48'14	-1°10'13
direct	7590 Jan 20 12:29	16°♌17'35		minimum elong	7590 Dec 26 11:15	6°♌42'24	1°09'14
morning max el	7590 Jan 27 04:15	19°♌54'26	18°38'44	asc. node	7590 Dec 29 20:38	3°♌10'55	
	7590 Feb 04 02:19	0°♍		morning rise	7591 Jan 01 15:45	1°♌13'53	
desc. node	7590 Feb 16 00:41	18°♍25'52		direct	7591 Jan 04 08:38	0°♌34'33	
morning set	7590 Feb 17 05:11	20°♍18'07		morning max el	7591 Jan 10 19:24	4°♌00'13	18°05'33
	7590 Feb 23 09:10	0°♎			7591 Jan 28 09:41	0°♍	
				morning set	7591 Jan 29 02:07	1°♍07'20	
superior conj	7590 Mar 05 10:36	15°♎45'38	-1°45'15	desc. node	7591 Feb 02 21:41	8°♍58'45	
minimum elong	7590 Mar 05 01:15	15°♎08'58	1°44'25				
max. Earth dist.	7590 Mar 04 21:25	14°♎53'59	1.45414 AU	superior conj	7591 Feb 12 17:25	24°♍41'55	-1°06'24
	7590 Mar 14 11:45	0°♏		minimum elong	7591 Feb 12 09:41	24°♍11'23	1°05'23
evening rise	7590 Mar 20 23:45	10°♏20'28		max. Earth dist.	7591 Feb 15 16:49	29°♍22'59	1.45354 AU
greatest brilliancy	7590 Mar 28 23:47	23°♏06'57	-0.9m		7591 Feb 16 02:16	0°♎	
	7590 Apr 02 09:51	0°♐		evening rise	7591 Feb 28 22:13	19°♎58'00	
asc. node	7590 Apr 09 22:40	10°♐22'11			7591 Mar 07 10:09	0°♏	
evening max el	7590 Apr 11 11:12	12°♐01'15	18°47'16	greatest brilliancy	7591 Mar 13 22:46	9°♏55'28	-0.7m
retrograde	7590 Apr 18 03:22	15°♐43'08		evening max el	7591 Mar 25 18:17	25°♏37'16	19°33'49
evening set	7590 Apr 21 10:18	14°♐41'02		asc. node	7591 Mar 27 19:43	27°♏30'36	
inferior conj	7590 Apr 27 00:55	9°♐00'49	3°25'23	retrograde	7591 Apr 02 00:43	29°♏46'44	
minimum elong	7590 Apr 27 01:02	9°♐00'27	3°25'19	evening set	7591 Apr 05 15:34	28°♏30'12	
min. Earth dist.	7590 Apr 28 20:38	6°♐45'29	0.65591 AU	inferior conj	7591 Apr 11 01:29	22°♏35'06	3°20'15
morning rise	7590 May 02 15:12	2°♐43'53		minimum elong	7591 Apr 11 00:26	22°♏38'34	3°20'06
	7590 May 08 03:30	30°♐♏		min. Earth dist.	7591 Apr 12 06:14	21°♏00'13	0.66930 AU
direct	7590 May 09 03:34	29°♏56'17		morning rise	7591 Apr 16 08:59	16°♏17'51	
	7590 May 10 04:06	0°♑		direct	7591 Apr 22 11:08	13°♏35'15	
desc. node	7590 May 15 00:14	1°♑45'38		desc. node	7591 May 01 21:15	18°♏14'16	
morning max el	7590 May 22 08:22	7°♑45'14	26°50'20	morning max el	7591 May 04 18:11	20°♏56'57	25°38'04
	7590 Jun 08 14:28	0°♒			7591 May 12 13:43	0°♑	

	7591 Jun 01 19:03	0°♂		morning set	7592 May 21 19:41	25°♂42'14	
morning set	7591 Jun 09 21:30	14°♂07'57			7592 May 24 06:31	0°♂	
max. Earth dist.	7591 Jun 13 14:57	21°♂03'52	1.35901 AU	max. Earth dist.	7592 May 25 11:58	2°♂11'21	1.38006 AU
	7591 Jun 18 05:22	0°♂					
superior conj	7591 Jun 19 10:33	2°♂25'30	-0°42'39	superior conj	7592 Jun 01 15:01	15°♂24'21	-1°13'51
minimum elong	7591 Jun 19 13:04	2°♂38'06	0°42'16	minimum elong	7592 Jun 01 19:27	15°♂45'36	1°13'15
asc. node	7591 Jun 23 18:51	11°♂15'18		asc. node	7592 Jun 09 02:03	0°♂	
evening rise	7591 Jun 27 10:49	18°♂46'20		evening rise	7592 Jun 09 15:52	1°♂08'21	
	7591 Jul 03 03:16	0°♂		evening max el	7592 Jun 10 11:00	2°♂42'50	
evening max el	7591 Jul 15 04:32	17°♂47'43	20°02'48		7592 Jun 26 23:19	29°♂33'45	19°03'54
retrograde	7591 Jul 25 15:41	22°♂56'51		retrograde	7592 Jun 27 10:15	0°♂	
evening set	7591 Jul 27 13:08	22°♂47'29		evening set	7592 Jul 05 18:32	3°♂54'15	
desc. node	7591 Jul 28 20:28	22°♂30'39		desc. node	7592 Jul 07 17:11	3°♂42'25	
inferior conj	7591 Aug 05 14:13	18°♂48'16	-2°20'12		7592 Jul 14 17:31	0°♂22'51	
minimum elong	7591 Aug 05 07:46	18°♂57'56	2°17'54	inferior conj	7592 Jul 15 07:09	30°♂♂	
min. Earth dist.	7591 Aug 07 09:29	17°♂43'26	0.55082 AU	minimum elong	7592 Jul 16 01:22	29°♂28'52	-0°24'08
morning rise	7591 Aug 14 00:50	14°♂32'28		min. Earth dist.	7592 Jul 16 00:21	29°♂30'38	0°23'50
direct	7591 Aug 18 09:45	13°♂50'46		morning rise	7592 Jul 18 23:50	27°♂28'26	0.56353 AU
morning max el	7591 Sep 01 01:50	20°♂33'51	24°08'15	direct	7592 Jul 24 04:22	24°♂37'37	
	7591 Sep 09 03:33	0°♂			7592 Jul 29 09:55	23°♂33'34	
asc. node	7591 Sep 19 18:16	17°♂34'39		morning max el	7592 Aug 11 17:12	0°♂	
morning set	7591 Sep 25 19:22	29°♂50'39			7592 Aug 12 15:05	0°♂51'05	25°47'37
	7591 Sep 25 21:08	0°♂		asc. node	7592 Sep 01 23:42	0°♂	
				morning set	7592 Sep 05 15:16	7°♂05'11	
superior conj	7591 Oct 02 17:20	14°♂50'33	1°38'27		7592 Sep 09 06:37	14°♂37'51	
minimum elong	7591 Oct 02 16:10	14°♂44'13	1°38'25	superior conj	7592 Sep 16 03:58	29°♂41'12	1°29'18
max. Earth dist.	7591 Oct 04 20:58	19°♂29'28	1.32926 AU	minimum elong	7592 Sep 16 02:03	29°♂30'36	1°29'07
	7591 Oct 09 21:34	0°♂			7592 Sep 16 07:22	0°♂	
evening rise	7591 Oct 10 03:17	0°♂28'57		max. Earth dist.	7592 Sep 17 03:40	1°♂51'46	1.32110 AU
desc. node	7591 Oct 24 19:26	26°♂59'32		evening rise	7592 Sep 23 04:22	14°♂49'51	
	7591 Oct 26 17:38	0°♂			7592 Sep 30 21:55	0°♂	
evening max el	7591 Nov 12 18:52	21°♂34'07	27°27'31	desc. node	7592 Oct 10 16:29	16°♂19'41	
retrograde	7591 Nov 26 10:38	28°♂52'39			7592 Oct 21 00:14	0°♂	
evening set	7591 Dec 03 11:33	26°♂19'09		evening max el	7592 Oct 25 03:28	4°♂17'47	27°20'13
min. Earth dist.	7591 Dec 07 05:27	23°♂02'26	0.63740 AU	retrograde	7592 Nov 07 23:17	11°♂30'41	
inferior conj	7591 Dec 09 19:27	20°♂24'01	-2°17'07	evening set	7592 Nov 15 01:51	9°♂10'35	
minimum elong	7591 Dec 09 23:42	20°♂13'09	2°15'21	min. Earth dist.	7592 Nov 18 17:56	6°♂20'12	0.61839 AU
morning rise	7591 Dec 16 13:35	15°♂04'43		inferior conj	7592 Nov 21 17:44	3°♂37'29	-3°25'32
asc. node	7591 Dec 16 17:39	15°♂00'51		minimum elong	7592 Nov 21 24:00	3°♂23'14	3°23'20
direct	7591 Dec 18 23:46	14°♂35'48			7592 Nov 26 04:47	30°♂♂	
morning max el	7591 Dec 25 12:36	17°♂59'38	17°49'33	morning rise	7592 Nov 29 00:14	28°♂36'41	
	7592 Jan 03 06:12	0°♂		direct	7592 Dec 01 06:33	28°♂14'34	
morning set	7592 Jan 11 02:16	13°♂15'54		asc. node	7592 Dec 02 14:41	28°♂22'33	
desc. node	7592 Jan 20 18:40	29°♂39'23			7592 Dec 06 03:24	0°♂	
	7592 Jan 20 23:39	0°♂		morning max el	7592 Dec 08 04:43	1°♂45'00	17°51'34
				morning set	7592 Dec 23 23:12	26°♂23'29	
superior conj	7592 Jan 23 17:43	4°♂31'38	-0°21'15		7592 Dec 25 23:15	0°♂	
minimum elong	7592 Jan 23 15:22	4°♂22'04	0°20'49	superior conj	7593 Jan 03 19:33	15°♂35'10	0°20'40
max. Earth dist.	7592 Jan 29 11:16	13°♂45'47	1.44567 AU	minimum elong	7593 Jan 03 21:24	15°♂43'03	0°20'30
evening rise	7592 Feb 08 09:34	29°♂15'56		desc. node	7593 Jan 06 15:38	20°♂24'07	
	7592 Feb 08 21:04	0°♂		max. Earth dist.	7593 Jan 11 02:36	27°♂46'59	1.43145 AU
	7592 Feb 29 05:46	0°♂			7593 Jan 12 11:22	0°♂	
evening max el	7592 Mar 07 20:07	9°♂15'20	20°35'03	evening rise	7593 Jan 18 01:08	8°♂51'45	
asc. node	7592 Mar 13 16:46	13°♂34'21			7593 Feb 01 01:48	0°♂	
retrograde	7592 Mar 15 23:10	14°♂00'50		evening max el	7593 Feb 18 16:31	22°♂54'24	21°47'30
evening set	7592 Mar 19 23:04	12°♂29'16		retrograde	7593 Feb 27 20:46	28°♂20'41	
inferior conj	7592 Mar 25 06:51	6°♂21'15	3°03'17	asc. node	7593 Feb 28 13:49	28°♂18'04	
minimum elong	7592 Mar 25 04:59	6°♂27'39	3°02'56	evening set	7593 Mar 04 07:02	26°♂33'47	
min. Earth dist.	7592 Mar 25 21:41	5°♂30'20	0.67825 AU	inferior conj	7593 Mar 09 14:44	20°♂15'25	2°36'19
morning rise	7592 Mar 30 10:40	0°♂06'05		minimum elong	7593 Mar 09 12:29	20°♂23'16	2°35'44
	7592 Mar 30 13:23	30°♂♂		min. Earth dist.	7593 Mar 09 16:50	20°♂08'06	0.68284 AU
direct	7592 Apr 04 23:54	27°♂37'46		morning rise	7593 Mar 14 17:45	14°♂03'43	
	7592 Apr 11 04:32	0°♂		direct	7593 Mar 19 16:50	11°♂55'35	
morning max el	7592 Apr 16 03:01	4°♂17'11	24°12'08	morning max el	7593 Mar 29 13:09	17°♂44'23	22°42'32
desc. node	7592 Apr 17 18:14	6°♂00'04		desc. node	7593 Apr 04 15:12	24°♂41'02	
	7592 May 05 20:34	0°♂					



	7593 Apr 08 17:22	0°♿			7594 Apr 02 13:18	0°♿	
	7593 Apr 28 22:56	0°♿		morning set	7594 Apr 12 09:48	15°♿09'11	
morning set	7593 May 02 16:32	6°♿03'34		max. Earth dist.	7594 Apr 19 10:49	26°♿28'34	1.42343 AU
max. Earth dist.	7593 May 07 08:46	13°♿53'48	1.40248 AU		7594 Apr 21 14:01	0°♿	
superior conj	7593 May 15 03:25	27°♿35'31	-1°42'15	superior conj	7594 Apr 26 19:04	8°♿48'31	-2°03'22
minimum elong	7593 May 15 09:02	28°♿01'03	1°41'43	minimum elong	7594 Apr 26 23:37	9°♿08'09	2°03'11
	7593 May 16 11:06	0°♿		evening rise	7594 May 08 03:09	28°♿55'07	
evening rise	7593 May 25 01:45	16°♿08'51			7594 May 08 17:29	0°♿	
asc. node	7593 May 27 12:53	20°♿48'00		asc. node	7594 May 14 09:56	10°♿09'14	
	7593 Jun 01 14:44	0°♿		evening max el	7594 May 24 14:24	24°♿52'30	18°07'26
evening max el	7593 Jun 10 03:49	11°♿58'11	18°25'38	retrograde	7594 May 31 08:13	28°♿18'17	
retrograde	7593 Jun 17 16:30	15°♿43'28		evening set	7594 Jun 02 20:44	27°♿49'48	
evening set	7593 Jun 19 21:40	15°♿24'53		inferior conj	7594 Jun 09 15:12	22°♿56'02	2°20'46
inferior conj	7593 Jun 27 09:53	10°♿51'22	1°12'38	minimum elong	7594 Jun 09 18:20	22°♿48'41	2°19'51
minimum elong	7593 Jun 27 12:16	10°♿46'33	1°11'43	min. Earth dist.	7594 Jun 12 21:47	19°♿53'06	0.60474 AU
min. Earth dist.	7593 Jun 30 19:10	8°♿08'41	0.58261 AU	morning rise	7594 Jun 16 13:20	17°♿03'27	
desc. node	7593 Jul 01 14:34	7°♿32'23		desc. node	7594 Jun 18 11:36	16°♿00'11	
morning rise	7593 Jul 04 23:34	5°♿24'49		direct	7594 Jun 23 02:54	14°♿57'07	
direct	7593 Jul 11 00:04	3°♿50'32		morning max el	7594 Jul 07 10:41	22°♿54'08	27°47'40
morning max el	7593 Jul 25 09:28	11°♿32'15	27°04'42		7594 Jul 13 17:59	0°♿	
	7593 Aug 08 18:37	0°♿			7594 Aug 01 22:29	0°♿	
asc. node	7593 Aug 23 12:15	26°♿52'19		morning set	7594 Aug 08 21:10	13°♿41'38	
morning set	7593 Aug 24 15:49	29°♿16'40		asc. node	7594 Aug 10 09:15	16°♿50'33	
	7593 Aug 25 00:01	0°♿		max. Earth dist.	7594 Aug 14 23:45	26°♿47'52	1.31808 AU
superior conj	7593 Aug 31 15:46	14°♿32'08	1°14'59	superior conj	7594 Aug 16 02:57	29°♿17'39	0°55'55
minimum elong	7593 Aug 31 13:31	14°♿19'39	1°14'38	minimum elong	7594 Aug 16 00:50	29°♿06'02	0°55'28
max. Earth dist.	7593 Aug 31 13:53	14°♿21'44	1.31735 AU		7594 Aug 16 10:37	0°♿	
evening rise	7593 Sep 07 11:05	29°♿24'43		evening rise	7594 Aug 22 21:15	14°♿06'50	
	7593 Sep 07 17:45	0°♿			7594 Aug 30 18:50	0°♿	
	7593 Sep 24 03:56	0°♿		desc. node	7594 Sep 14 10:38	22°♿28'42	
desc. node	7593 Sep 27 13:33	4°♿55'28		evening max el	7594 Sep 19 00:06	27°♿22'39	25°26'47
evening max el	7593 Oct 07 05:48	16°♿15'46	26°39'09		7594 Sep 22 00:47	0°♿	
retrograde	7593 Oct 21 03:36	23°♿23'22		retrograde	7594 Oct 02 22:09	4°♿25'19	
evening set	7593 Oct 27 22:40	21°♿27'33		evening set	7594 Oct 08 21:03	3°♿03'20	
min. Earth dist.	7593 Oct 31 19:32	18°♿52'01	0.59769 AU	min. Earth dist.	7594 Oct 13 12:03	0°♿25'03	0.57727 AU
inferior conj	7593 Nov 04 00:34	16°♿19'34	-4°29'06		7594 Oct 14 02:56	30°♿	
minimum elong	7593 Nov 04 07:38	16°♿05'32	4°27'16	inferior conj	7594 Oct 16 12:35	28°♿20'15	-5°16'31
morning rise	7593 Nov 11 18:53	11°♿40'38		minimum elong	7594 Oct 16 17:27	28°♿11'52	5°15'52
direct	7593 Nov 14 00:50	11°♿22'10		morning rise	7594 Oct 24 16:11	24°♿04'24	
asc. node	7593 Nov 19 11:42	13°♿17'12		direct	7594 Oct 27 02:03	23°♿46'47	
morning max el	7593 Nov 21 16:28	15°♿07'58	18°12'57	morning max el	7594 Nov 04 20:11	27°♿57'53	18°55'15
	7593 Dec 01 22:40	0°♿		asc. node	7594 Nov 06 08:43	29°♿32'24	
morning set	7593 Dec 07 10:57	10°♿12'34			7594 Nov 06 18:28	0°♿	
				morning set	7594 Nov 21 08:52	24°♿29'08	
superior conj	7593 Dec 16 21:44	27°♿48'53	0°54'20		7594 Nov 24 03:59	0°♿	
minimum elong	7593 Dec 17 01:11	28°♿04'30	0°53'58				
	7593 Dec 18 02:52	0°♿		superior conj	7594 Nov 29 19:13	10°♿57'34	1°18'32
max. Earth dist.	7593 Dec 24 13:02	11°♿11'34	1.41250 AU	minimum elong	7594 Nov 29 22:26	11°♿12'53	1°18'16
desc. node	7593 Dec 24 12:38	11°♿09'52		max. Earth dist.	7594 Dec 06 18:57	23°♿51'22	1.39118 AU
evening rise	7593 Dec 29 09:36	19°♿15'14			7594 Dec 10 07:17	0°♿	
	7594 Jan 05 04:28	0°♿		evening rise	7594 Dec 10 16:03	0°♿37'32	
	7594 Jan 26 11:59	0°♿		desc. node	7594 Dec 11 09:39	1°♿52'31	
evening max el	7594 Feb 01 08:32	6°♿35'47	23°06'27		7594 Dec 29 12:35	0°♿	
retrograde	7594 Feb 11 16:07	12°♿42'35		evening max el	7595 Jan 14 22:04	20°♿20'08	24°26'03
asc. node	7594 Feb 15 10:53	11°♿31'03		retrograde	7595 Jan 26 07:55	27°♿01'03	
evening set	7594 Feb 16 13:58	10°♿40'36		evening set	7595 Jan 31 18:15	24°♿45'13	
inferior conj	7594 Feb 21 23:16	4°♿15'11	2°00'28	asc. node	7595 Feb 02 07:58	23°♿14'04	
minimum elong	7594 Feb 21 21:04	4°♿22'47	1°59'48	min. Earth dist.	7595 Feb 05 09:34	19°♿27'24	0.67974 AU
min. Earth dist.	7594 Feb 21 13:33	4°♿48'45	0.68326 AU	inferior conj	7595 Feb 06 06:36	18°♿16'55	1°16'28
	7594 Feb 25 06:19	30°♿		minimum elong	7595 Feb 06 04:56	18°♿22'31	1°15'55
morning rise	7594 Feb 27 04:07	28°♿08'15		morning rise	7595 Feb 11 15:44	12°♿16'12	
direct	7594 Mar 03 13:05	26°♿22'34		direct	7595 Feb 15 11:29	10°♿52'37	
	7594 Mar 10 17:35	0°♿		morning max el	7595 Feb 23 02:28	15°♿10'44	20°04'15
morning max el	7594 Mar 12 04:09	1°♿21'55	21°17'52		7595 Mar 06 17:17	0°♿	
desc. node	7594 Mar 22 12:09	14°♿02'08		desc. node	7595 Mar 09 09:06	3°♿51'54	

morning set	7595 Mar 22 08:16	23° $\text{H}$ 27'15		greatest brilliancy	7596 Feb 20 01:50	17° $\approx$ 39'02	-0.8m
	7595 Mar 26 13:28	0° $\text{Y}$		desc. node	7596 Feb 24 06:04	24° $\approx$ 02'44	
max. Earth dist.	7595 Apr 01 19:44	9° $\text{Y}$ 53'07	1.44027 AU		7596 Feb 28 02:30	0° $\text{H}$	
				morning set	7596 Feb 29 11:04	2° $\text{H}$ 06'16	
superior conj	7595 Apr 07 10:08	18° $\text{Y}$ 56'00	-2°11'21	max. Earth dist.	7596 Mar 14 11:03	23° $\text{H}$ 56'57	1.45114 AU
minimum elong	7595 Apr 07 09:54	18° $\text{Y}$ 55'02	2°11'23				
	7595 Apr 14 02:01	0° $\text{B}$		superior conj	7596 Mar 17 02:01	28° $\text{H}$ 05'08	-2°00'37
evening rise	7595 Apr 20 10:32	10° $\text{B}$ 50'47		minimum elong	7596 Mar 16 18:57	27° $\text{H}$ 37'12	2°00'12
asc. node	7595 May 01 07:00	29° $\text{B}$ 05'29			7596 Mar 18 07:03	0° $\text{Y}$	
	7595 May 01 21:09	0° $\text{II}$		evening rise	7596 Mar 31 19:41	21° $\text{Y}$ 48'30	
evening max el	7595 May 08 03:33	8° $\text{II}$ 07'35	18°08'32		7596 Apr 05 09:31	0° $\text{B}$	
retrograde	7595 May 14 13:19	11° $\text{II}$ 28'51		asc. node	7596 Apr 17 04:05	17° $\text{B}$ 28'11	
evening set	7595 May 17 09:01	10° $\text{II}$ 48'15		evening max el	7596 Apr 20 16:13	21° $\text{B}$ 35'05	18°28'07
inferior conj	7595 May 23 13:38	5° $\text{II}$ 35'28	3°02'09	retrograde	7596 Apr 27 03:28	25° $\text{B}$ 05'31	
minimum elong	7595 May 23 15:56	5° $\text{II}$ 29'20	3°01'41	evening set	7596 Apr 30 06:16	24° $\text{B}$ 11'25	
min. Earth dist.	7595 May 26 09:09	2° $\text{II}$ 36'28	0.62674 AU	inferior conj	7596 May 06 00:59	18° $\text{B}$ 40'52	3°21'55
	7595 May 29 04:38	30° $\text{R}$ $\text{B}$		minimum elong	7596 May 06 01:54	18° $\text{B}$ 38'09	3°21'46
morning rise	7595 May 29 21:13	29° $\text{B}$ 27'43		min. Earth dist.	7596 May 08 05:39	16° $\text{B}$ 05'45	0.64634 AU
desc. node	7595 Jun 05 08:37	26° $\text{B}$ 56'14		morning rise	7596 May 11 20:40	12° $\text{B}$ 25'59	
direct	7595 Jun 05 16:02	26° $\text{B}$ 55'56		direct	7596 May 18 13:15	9° $\text{B}$ 40'30	
	7595 Jun 13 21:40	0° $\text{II}$		desc. node	7596 May 22 05:38	10° $\text{B}$ 23'44	
morning max el	7595 Jun 19 17:23	4° $\text{II}$ 58'40	27°52'30	morning max el	7596 Jun 01 03:01	17° $\text{B}$ 37'39	27°21'41
	7595 Jul 08 12:42	0° $\text{B}$			7596 Jun 11 10:58	0° $\text{II}$	
morning set	7595 Jul 23 20:36	27° $\text{B}$ 46'51			7596 Jun 30 09:54	0° $\text{B}$	
	7595 Jul 24 22:46	0° $\text{Q}$		morning set	7596 Jul 06 11:22	11° $\text{B}$ 23'29	
asc. node	7595 Jul 28 06:16	6° $\text{Q}$ 55'24		max. Earth dist.	7596 Jul 11 03:08	20° $\text{B}$ 44'58	1.33358 AU
max. Earth dist.	7595 Jul 29 05:27	8° $\text{Q}$ 59'11	1.32342 AU	asc. node	7596 Jul 14 03:16	27° $\text{B}$ 01'52	
superior conj	7595 Jul 31 11:44	13° $\text{Q}$ 52'28	0°32'33	superior conj	7596 Jul 14 16:01	28° $\text{B}$ 09'23	0°05'26
minimum elong	7595 Jul 31 10:17	13° $\text{Q}$ 44'35	0°32'09	minimum elong	7596 Jul 14 15:45	28° $\text{B}$ 07'56	0°05'16
evening rise	7595 Aug 07 08:55	28° $\text{Q}$ 50'33		behind sun begin	7596 Jul 14 10:31	27° $\text{B}$ 40'12	
	7595 Aug 07 21:58	0° $\text{np}$		behind sun end	7596 Jul 14 20:58	28° $\text{B}$ 35'42	
	7595 Aug 24 18:54	0° $\text{Q}$			7596 Jul 15 12:49	0° $\text{Q}$	
evening max el	7595 Aug 31 12:30	7° $\text{Q}$ 50'04	23°53'19	evening rise	7596 Jul 21 20:08	13° $\text{Q}$ 28'59	
desc. node	7595 Sep 01 07:43	8° $\text{Q}$ 35'15			7596 Jul 30 04:27	0° $\text{np}$	
retrograde	7595 Sep 14 04:46	14° $\text{Q}$ 41'20		evening max el	7596 Aug 12 01:48	18° $\text{np}$ 05'31	22°14'39
evening set	7595 Sep 18 18:56	13° $\text{Q}$ 55'04		desc. node	7596 Aug 18 04:49	22° $\text{np}$ 43'16	
min. Earth dist.	7595 Sep 24 22:59	10° $\text{Q}$ 55'23	0.56011 AU	retrograde	7596 Aug 24 22:46	24° $\text{np}$ 29'38	
inferior conj	7595 Sep 27 04:25	9° $\text{Q}$ 34'19	-5°30'40	evening set	7596 Aug 28 01:12	24° $\text{np}$ 08'22	
minimum elong	7595 Sep 27 03:05	9° $\text{Q}$ 36'21	5°30'37	min. Earth dist.	7596 Sep 05 07:43	20° $\text{np}$ 32'32	0.54941 AU
morning rise	7595 Oct 05 13:26	5° $\text{Q}$ 37'47		inferior conj	7596 Sep 06 03:15	20° $\text{np}$ 05'04	-4°54'17
direct	7595 Oct 08 08:00	5° $\text{Q}$ 18'12		minimum elong	7596 Sep 05 19:13	20° $\text{np}$ 16'22	4°52'47
morning max el	7595 Oct 18 12:35	10° $\text{Q}$ 05'06	19°59'45	morning rise	7596 Sep 14 14:52	16° $\text{np}$ 16'39	
asc. node	7595 Oct 24 05:44	16° $\text{Q}$ 52'56		direct	7596 Sep 17 21:59	15° $\text{np}$ 52'19	
	7595 Oct 31 23:47	0° $\text{ml}$		morning max el	7596 Sep 29 15:58	21° $\text{np}$ 23'02	21°25'42
morning set	7595 Nov 05 13:37	9° $\text{ml}$ 04'03			7596 Oct 06 20:50	0° $\text{Q}$	
				asc. node	7596 Oct 10 02:45	5° $\text{Q}$ 03'36	
superior conj	7595 Nov 13 07:01	24° $\text{ml}$ 47'08	1°33'43	morning set	7596 Oct 19 22:37	23° $\text{Q}$ 49'24	
minimum elong	7595 Nov 13 09:06	24° $\text{ml}$ 57'33	1°33'39		7596 Oct 22 21:12	0° $\text{ml}$	
	7595 Nov 15 22:20	0° $\text{x}$					
max. Earth dist.	7595 Nov 19 00:51	5° $\text{x}$ 57'36	1.37004 AU	superior conj	7596 Oct 27 04:54	9° $\text{ml}$ 04'53	1°40'55
evening rise	7595 Nov 22 19:40	12° $\text{x}$ 56'34		minimum elong	7596 Oct 27 05:37	9° $\text{ml}$ 08'32	1°40'58
desc. node	7595 Nov 28 06:42	22° $\text{x}$ 28'18		max. Earth dist.	7596 Oct 31 11:59	17° $\text{ml}$ 51'08	1.35119 AU
	7595 Dec 02 20:42	0° $\text{B}$		evening rise	7596 Nov 04 16:47	26° $\text{ml}$ 02'08	
	7595 Dec 24 13:21	0° $\approx$			7596 Nov 06 19:39	0° $\text{x}$	
evening max el	7595 Dec 28 11:08	4° $\approx$ 07'03	25°39'17	desc. node	7596 Nov 14 03:47	12° $\text{x}$ 52'05	
retrograde	7596 Jan 09 19:06	11° $\approx$ 11'12			7596 Nov 25 07:03	0° $\text{B}$	
evening set	7596 Jan 15 18:17	8° $\approx$ 43'46		evening max el	7596 Dec 10 00:24	17° $\text{B}$ 50'35	26°38'50
min. Earth dist.	7596 Jan 20 02:36	4° $\approx$ 00'26	0.67250 AU	retrograde	7596 Dec 23 00:47	25° $\text{B}$ 06'46	
asc. node	7596 Jan 20 05:02	3° $\approx$ 52'47		evening set	7596 Dec 29 12:14	22° $\text{B}$ 31'39	
inferior conj	7596 Jan 21 10:53	2° $\approx$ 17'38	0°24'51	min. Earth dist.	7597 Jan 02 14:15	18° $\text{B}$ 23'11	0.66159 AU
minimum elong	7596 Jan 21 10:15	2° $\approx$ 19'38	0°24'42	inferior conj	7597 Jan 04 10:04	16° $\text{B}$ 13'12	-0°33'42
	7596 Jan 23 07:16	30° $\text{R}$ $\text{B}$		minimum elong	7597 Jan 04 11:01	16° $\text{B}$ 10'25	0°33'12
morning rise	7596 Jan 27 02:39	25° $\text{B}$ 25'05		asc. node	7597 Jan 06 02:04	14° $\text{B}$ 17'13	
direct	7596 Jan 30 10:37	25° $\text{B}$ 21'17		morning rise	7597 Jan 10 10:40	10° $\text{B}$ 31'22	
morning max el	7596 Feb 06 08:37	29° $\text{B}$ 09'48	19°05'15	direct	7597 Jan 13 08:34	9° $\text{B}$ 44'05	
	7596 Feb 07 04:11	0° $\approx$		morning max el	7597 Jan 19 21:11	13° $\text{B}$ 14'42	18°22'31

	7597 Feb 01 00:58	0°♊	asc. node	7597 Dec 23 23:06	25°♊23'19	
morning set	7597 Feb 08 14:48	12°♊04'05	morning rise	7597 Dec 25 13:08	24°♊29'35	
desc. node	7597 Feb 10 03:04	14°♊28'58	direct	7597 Dec 28 02:58	23°♊55'03	
	7597 Feb 19 21:58	0°♋	morning max el	7598 Jan 03 13:35	27°♊18'28	17°56'39
				7598 Jan 05 23:19	0°♋	
superior conj	7597 Feb 24 06:29	6°♋50'16 -1°30'15	morning set	7598 Jan 20 23:58	23°♋29'08	
minimum elong	7597 Feb 23 20:58	6°♋13'02 1°29'13		7598 Jan 24 21:54	0°♋	
max. Earth dist.	7597 Feb 25 06:20	8°♋23'44 1.45484 AU	desc. node	7598 Jan 28 00:03	5°♋05'26	
	7597 Mar 11 01:18	0°♌				
evening rise	7597 Mar 12 05:36	1°♌51'13	superior conj	7598 Feb 03 18:56	16°♋04'16 -0°47'21	
greatest brilliancy	7597 Mar 22 13:25	18°♌01'42 -0.8m	minimum elong	7598 Feb 03 13:24	15°♋42'07 0°46'31	
	7597 Mar 30 17:49	0°♍	max. Earth dist.	7598 Feb 08 02:09	22°♋53'42 1.45104 AU	
evening max el	7597 Apr 04 01:53	5°♍09'10 19°05'09		7598 Feb 12 14:59	0°♋	
asc. node	7597 Apr 04 01:09	5°♍07'18	evening rise	7598 Feb 19 21:42	11°♋16'02	
retrograde	7597 Apr 10 23:03	9°♍01'12		7598 Mar 04 05:38	0°♌	
evening set	7597 Apr 14 09:21	7°♍52'49	greatest brilliancy	7598 Mar 06 10:23	3°♌14'58 -0.6m	
inferior conj	7597 Apr 19 21:36	2°♍06'01 3°24'48	evening max el	7598 Mar 18 06:44	18°♌45'30 19°58'11	
minimum elong	7597 Apr 19 21:12	2°♍07'20 3°24'43	asc. node	7598 Mar 21 22:12	21°♌49'43	
min. Earth dist.	7597 Apr 21 10:47	0°♍07'27 0.66216 AU	retrograde	7598 Mar 25 21:12	23°♌09'34	
	7597 Apr 21 13:09	30°♌♌	evening set	7598 Mar 29 15:47	21°♌46'31	
morning rise	7597 Apr 25 08:38	25°♌48'51	inferior conj	7598 Apr 04 00:29	15°♌45'22 3°14'21	
direct	7597 May 01 17:07	23°♌02'16	minimum elong	7598 Apr 03 23:02	15°♌50'14 3°14'08	
desc. node	7597 May 09 02:36	25°♌55'26	min. Earth dist.	7598 Apr 04 23:04	14°♌29'20 0.67364 AU	
	7597 May 13 20:59	0°♍	morning rise	7598 Apr 09 06:04	9°♌28'46	
morning max el	7597 May 14 13:17	0°♍40'40 26°22'01	direct	7598 Apr 15 02:48	6°♌51'39	
	7597 Jun 05 10:55	0°♎	desc. node	7598 Apr 25 23:35	12°♌59'31	
morning set	7597 Jun 19 14:04	24°♎22'24	morning max el	7598 Apr 26 22:45	13°♌56'52 25°02'38	
	7597 Jun 22 12:56	0°♏		7598 May 09 23:52	0°♍	
max. Earth dist.	7597 Jun 23 14:21	2°♏03'50 1.34851 AU		7598 May 29 06:47	0°♎	
			morning set	7598 Jun 02 00:12	6°♎31'15	
superior conj	7597 Jun 28 13:27	12°♏01'54 -0°24'36	max. Earth dist.	7598 Jun 05 15:20	13°♎07'21 1.36765 AU	
minimum elong	7597 Jun 28 14:51	12°♏09'04 0°24'25				
asc. node	7597 Jul 01 00:18	17°♏06'13	superior conj	7598 Jun 12 01:04	25°♎22'02 -0°56'01	
evening rise	7597 Jul 06 04:56	27°♏56'22	minimum elong	7598 Jun 12 04:26	25°♎38'34 0°55'30	
	7597 Jul 07 04:54	0°♏		7598 Jun 14 09:06	0°♏	
evening max el	7597 Jul 25 00:16	28°♏43'08 20°45'47	asc. node	7598 Jun 17 21:20	7°♏04'10	
	7597 Jul 26 09:22	0°♐	evening rise	7598 Jun 20 09:00	12°♏05'42	
retrograde	7597 Aug 05 10:55	4°♐22'36		7598 Jun 29 22:22	0°♏	
desc. node	7597 Aug 05 01:51	4°♐22'15	evening max el	7598 Jul 07 11:47	10°♏02'37 19°35'10	
evening set	7597 Aug 07 13:50	4°♐11'43	retrograde	7598 Jul 17 05:29	14°♏50'32	
inferior conj	7597 Aug 16 19:49	0°♐14'44 -3°25'51	evening set	7598 Jul 19 02:08	14°♏40'47	
minimum elong	7597 Aug 16 10:58	0°♐27'21 3°23'03	desc. node	7598 Jul 22 22:51	13°♏24'54	
	7597 Aug 17 06:08	30°♐♐	inferior conj	7598 Jul 27 20:52	10°♏36'23 -1°29'54	
min. Earth dist.	7597 Aug 17 17:08	29°♏44'20 0.54756 AU	minimum elong	7598 Jul 27 16:46	10°♏42'52 1°28'25	
morning rise	7597 Aug 25 08:03	26°♏14'59	min. Earth dist.	7598 Jul 30 05:28	9°♏07'02 0.55518 AU	
direct	7597 Aug 29 06:20	25°♏41'57	morning rise	7598 Aug 05 05:02	6°♏06'06	
	7597 Sep 09 01:25	0°♐	direct	7598 Aug 09 22:16	5°♏16'23	
morning max el	7597 Sep 11 08:55	1°♐59'12 23°07'24	morning max el	7598 Aug 23 21:45	12°♏15'40 24°52'24	
asc. node	7597 Sep 26 23:44	23°♐52'35		7598 Sep 06 13:05	0°♐	
	7597 Sep 30 04:39	0°♑	asc. node	7598 Sep 13 20:44	13°♐10'21	
morning set	7597 Oct 04 09:49	8°♑39'30	morning set	7598 Sep 18 21:32	23°♐29'33	
				7598 Sep 21 21:52	0°♑	
superior conj	7597 Oct 11 09:40	23°♑41'31 1°41'09				
minimum elong	7597 Oct 11 09:07	23°♑38'29 1°41'11	superior conj	7598 Sep 25 18:48	8°♑29'28 1°35'15	
	7597 Oct 14 08:59	0°♒	minimum elong	7598 Sep 25 17:16	8°♑21'04 1°35'09	
max. Earth dist.	7597 Oct 14 07:14	29°♑50'46 1.33603 AU	max. Earth dist.	7598 Sep 27 10:19	12°♑05'01 1.32519 AU	
evening rise	7597 Oct 19 03:25	9°♒44'01	evening rise	7598 Oct 03 00:06	23°♑53'21	
	7597 Oct 30 05:42	0°♓		7598 Oct 06 01:12	0°♒	
desc. node	7597 Nov 01 00:50	2°♓57'45	desc. node	7598 Oct 18 21:52	22°♒37'46	
	7597 Nov 21 04:35	0°♔		7598 Oct 23 21:15	0°♓	
evening max el	7597 Nov 22 13:12	1°♔20'11 27°17'23	evening max el	7598 Nov 04 23:49	14°♓24'04 27°28'22	
retrograde	7597 Dec 06 00:28	8°♔39'38	retrograde	7598 Nov 18 17:38	21°♓41'04	
evening set	7597 Dec 12 21:50	6°♔02'52	evening set	7598 Nov 25 20:17	19°♓11'33	
min. Earth dist.	7597 Dec 16 18:12	2°♔28'28 0.64718 AU	min. Earth dist.	7598 Nov 29 12:43	16°♓07'20 0.62961 AU	
inferior conj	7597 Dec 19 01:48	29°♓57'47 -1°38'09	inferior conj	7598 Dec 02 07:23	13°♓25'11 -2°46'15	
minimum elong	7597 Dec 19 04:46	29°♓49'44 1°36'50	minimum elong	7598 Dec 02 12:33	13°♓12'35 2°44'13	
	7597 Dec 19 00:59	30°♓♓	morning rise	7598 Dec 09 06:47	8°♓13'41	

asc. node	7598 Dec 10 20:07	7°♊51'04		inferior conj	7599 Nov 14 23:32	26°♍26'27	-3°53'39
direct	7598 Dec 11 14:54	7°♊48'10		minimum elong	7599 Nov 15 06:23	26°♍11'42	3°51'28
morning max el	7598 Dec 18 06:49	11°♊13'39	17°48'11	morning rise	7599 Nov 22 11:16	21°♍34'39	
	7598 Dec 30 22:18	0°♊		direct	7599 Nov 24 16:47	21°♍14'35	
morning set	7599 Jan 03 09:47	6°♊05'13		asc. node	7599 Nov 27 17:09	21°♍52'52	
desc. node	7599 Jan 14 21:03	25°♊48'27		morning max el	7599 Dec 01 21:34	24°♍50'48	17°58'10
					7599 Dec 06 03:33	0°♊	
superior conj	7599 Jan 15 05:56	26°♊25'25	-0°02'42	morning set	7599 Dec 17 13:41	19°♊32'06	
minimum elong	7599 Jan 15 05:40	26°♊24'18	0°02'34		7599 Dec 23 06:54	0°♊	
behind sun begin	7599 Jan 14 20:31	25°♊46'10					
behind sun end	7599 Jan 15 14:49	27°♊02'22		superior conj	7599 Dec 27 18:36	7°♊59'58	0°36'05
	7599 Jan 17 09:48	0°♊		minimum elong	7599 Dec 27 21:25	8°♊12'18	0°35'45
max. Earth dist.	7599 Jan 21 19:19	7°♊08'26	1.44029 AU	desc. node	7600 Jan 01 18:03	16°♊33'55	
evening rise	7599 Jan 30 08:57	20°♊36'50		max. Earth dist.	7600 Jan 04 08:03	20°♊52'59	1.42386 AU
	7599 Feb 05 12:41	0°♊			7600 Jan 09 22:58	0°♊	
	7599 Feb 27 01:16	0°♊		evening rise	7600 Jan 10 06:33	0°♊30'08	
evening max el	7599 Mar 01 06:05	2°♊23'16	21°04'39		7600 Jan 30 01:53	0°♊	
asc. node	7599 Mar 08 19:14	7°♊21'01		evening max el	7600 Feb 12 00:28	16°♊03'08	22°20'40
retrograde	7599 Mar 09 19:37	7°♊26'22		retrograde	7600 Feb 21 16:28	21°♊47'14	
evening set	7599 Mar 13 23:42	5°♊48'21		asc. node	7600 Feb 23 16:18	21°♊26'55	
inferior conj	7599 Mar 19 07:12	29°♊35'21	2°52'58	evening set	7600 Feb 26 07:25	19°♊54'07	
minimum elong	7599 Mar 19 05:07	29°♊42'34	2°52'31	inferior conj	7600 Mar 02 15:38	13°♊32'20	2°22'09
	7599 Mar 19 00:04	30°♊		minimum elong	7600 Mar 02 13:20	13°♊40'18	2°21'31
min. Earth dist.	7599 Mar 19 16:29	29°♊03'11	0.68072 AU	min. Earth dist.	7600 Mar 02 12:42	13°♊42'32	0.68351 AU
morning rise	7599 Mar 24 10:20	23°♊21'14		morning rise	7600 Mar 07 19:05	7°♊22'17	
direct	7599 Mar 29 17:30	21°♊01'03		direct	7600 Mar 12 12:09	5°♊23'22	
morning max el	7599 Apr 09 07:53	27°♊20'09	23°33'49	morning max el	7600 Mar 21 19:32	10°♊50'43	22°05'21
	7599 Apr 11 19:46	0°♊		desc. node	7600 Mar 29 17:34	20°♊10'22	
desc. node	7599 Apr 12 20:35	1°♊10'47			7600 Apr 05 21:20	0°♊	
	7599 May 03 15:15	0°♊		morning set	7600 Apr 23 21:13	27°♊24'10	
morning set	7599 May 14 12:14	17°♊35'50			7600 Apr 25 11:39	0°♊	
max. Earth dist.	7599 May 18 10:59	24°♊24'06	1.38956 AU	max. Earth dist.	7600 Apr 29 09:05	6°♊26'07	1.41173 AU
	7599 May 21 14:30	0°♊					
superior conj	7599 May 25 23:13	8°♊01'09	-1°26'29	superior conj	7600 May 07 03:26	19°♊49'17	-1°52'25
minimum elong	7599 May 26 04:19	8°♊25'04	1°25'53	minimum elong	7600 May 07 08:59	20°♊13'55	1°52'01
evening rise	7599 Jun 04 05:36	25°♊49'45			7600 May 12 18:38	0°♊	
asc. node	7599 Jun 04 18:21	26°♊51'36		evening rise	7600 May 17 15:13	9°♊00'02	
	7599 Jun 06 09:23	0°♊		asc. node	7600 May 21 15:23	16°♊24'07	
evening max el	7599 Jun 20 11:08	22°♊05'34	18°45'09		7600 May 29 20:08	0°♊	
retrograde	7599 Jun 28 16:09	26°♊09'13		evening max el	7600 Jun 02 18:49	4°♊44'36	18°15'33
evening set	7599 Jun 30 17:07	25°♊55'05		retrograde	7600 Jun 09 21:53	8°♊19'16	
inferior conj	7599 Jul 08 16:49	21°♊33'41	0°20'12	evening set	7600 Jun 12 06:17	7°♊56'43	
minimum elong	7599 Jul 08 17:36	21°♊32'16	0°19'49	inferior conj	7600 Jun 19 10:33	3°♊14'43	1°45'03
desc. node	7599 Jul 09 19:54	20°♊43'35		minimum elong	7600 Jun 19 13:32	3°♊08'18	1°44'01
min. Earth dist.	7599 Jul 11 22:00	19°♊12'38	0.57098 AU	min. Earth dist.	7600 Jun 22 20:13	0°♊20'21	0.59188 AU
morning rise	7599 Jul 16 14:36	16°♊26'22			7600 Jun 23 06:19	30°♊	
direct	7599 Jul 22 04:42	15°♊09'52		desc. node	7600 Jun 25 16:57	28°♊13'33	
morning max el	7599 Aug 05 12:47	22°♊39'57	26°24'04	morning rise	7600 Jun 26 17:42	27°♊36'01	
	7599 Aug 12 01:29	0°♊		direct	7600 Jul 03 00:55	25°♊47'30	
	7599 Aug 30 08:23	0°♊			7600 Jul 13 07:06	0°♊	
asc. node	7599 Aug 31 17:44	2°♊48'22		morning max el	7600 Jul 17 09:52	3°♊36'38	27°27'31
morning set	7599 Sep 03 08:06	8°♊13'29			7600 Aug 05 17:16	0°♊	
				morning set	7600 Aug 17 15:53	22°♊46'43	
superior conj	7599 Sep 10 06:10	23°♊20'56	1°23'52	asc. node	7600 Aug 17 14:44	22°♊40'41	
minimum elong	7599 Sep 10 04:03	23°♊09'13	1°23'35		7600 Aug 21 00:53	0°♊	
max. Earth dist.	7599 Sep 10 18:42	24°♊30'22	1.31886 AU	max. Earth dist.	7600 Aug 24 05:11	6°♊59'31	1.31710 AU
	7599 Sep 13 06:35	0°♊					
evening rise	7599 Sep 17 03:51	8°♊20'48		superior conj	7600 Aug 24 17:56	8°♊10'10	1°07'28
	7599 Sep 28 10:46	0°♊		minimum elong	7600 Aug 24 15:41	7°♊57'42	1°07'03
desc. node	7599 Oct 05 18:55	11°♊40'47		evening rise	7600 Aug 31 12:18	22°♊59'33	
evening max el	7599 Oct 18 05:58	26°♊49'13	27°06'58		7600 Sep 03 21:04	0°♊	
	7599 Oct 22 00:17	0°♊		desc. node	7600 Sep 21 15:59	29°♊52'06	
retrograde	7599 Nov 01 03:17	4°♊00'35			7600 Sep 21 18:24	0°♊	
evening set	7599 Nov 08 03:47	1°♊49'28		evening max el	7600 Sep 29 05:13	8°♊25'56	26°11'53
	7599 Nov 10 18:20	30°♊		retrograde	7600 Oct 13 03:36	15°♊31'01	
min. Earth dist.	7599 Nov 11 20:41	29°♊07'01	0.60965 AU	evening set	7600 Oct 19 15:34	13°♊49'06	
				min. Earth dist.	7600 Oct 23 18:19	11°♊14'30	0.58882 AU

inferior conj	7600 Oct 26 22:44	8°♍51'56	-4°52'05	minimum elong	7601 Oct 08 04:45	20°♊28'11	5°27'32
minimum elong	7600 Oct 27 05:20	8°♍39'34	4°50'42	morning rise	7601 Oct 16 08:27	16°♊25'44	
morning rise	7600 Nov 03 21:22	4°♍22'26		direct	7601 Oct 18 21:43	16°♊07'26	
direct	7600 Nov 06 04:24	4°♍04'38		morning max el	7601 Oct 28 05:23	20°♊32'11	19°20'02
asc. node	7600 Nov 13 14:11	7°♍22'59		asc. node	7601 Oct 31 11:13	24°♊07'22	
morning max el	7600 Nov 14 06:15	8°♍00'16	18°28'12		7601 Nov 04 13:41	0°♍	
	7600 Nov 28 09:31	0°♊		morning set	7601 Nov 14 07:28	17°♍59'41	
morning set	7600 Nov 30 06:15	3°♊34'07			7601 Nov 20 07:39	0°♊	
superior conj	7600 Dec 09 05:36	20°♊38'15	1°05'45	superior conj	7601 Nov 22 09:45	4°♊05'58	1°26'00
minimum elong	7600 Dec 09 09:07	20°♊54'31	1°05'24	minimum elong	7601 Nov 22 12:33	4°♊19'36	1°25'51
	7600 Dec 14 09:46	0°♊		max. Earth dist.	7601 Nov 28 22:16	16°♊24'38	1.38202 AU
max. Earth dist.	7600 Dec 16 16:28	3°♊58'59	1.40365 AU	evening rise	7601 Dec 02 16:00	23°♊05'29	
desc. node	7600 Dec 18 15:04	7°♊18'31		desc. node	7601 Dec 05 12:06	27°♊58'45	
evening rise	7600 Dec 21 00:12	11°♊18'17			7601 Dec 06 16:54	0°♊	
	7601 Jan 01 20:55	0°♊			7601 Dec 26 16:41	0°♊	
evening max el	7601 Jan 24 15:22	29°♊46'12	23°40'43	evening max el	7602 Jan 07 04:34	13°♊32'26	24°58'22
	7601 Jan 24 20:56	0°♊					
retrograde	7601 Feb 04 10:18	6°♊07'53					
evening set	7601 Feb 09 13:24	3°♊59'57					
asc. node	7601 Feb 09 13:23	4°♊00'01					
	7601 Feb 13 04:17	30°♊					
inferior conj	7601 Feb 14 23:53	27°♊33'01	1°42'46				
minimum elong	7601 Feb 14 21:51	27°♊39'59	1°42'07				
min. Earth dist.	7601 Feb 14 09:22	28°♊22'35	0.68228 AU				
morning rise	7601 Feb 20 06:15	21°♊28'33					
direct	7601 Feb 24 09:34	19°♊52'15					
morning max el	7601 Mar 04 13:20	24°♊32'14	20°44'51				
	7601 Mar 09 08:47	0°♊					
desc. node	7601 Mar 16 14:32	9°♊44'31					
	7601 Mar 30 06:27	0°♊					
morning set	7601 Apr 03 04:22	6°♊02'36					
max. Earth dist.	7601 Apr 11 14:26	19°♊24'30	1.43128 AU				
superior conj	7601 Apr 18 08:56	0°♊34'50	-2°08'44				
minimum elong	7601 Apr 18 11:57	0°♊47'30	2°08'42				
	7601 Apr 18 00:38	0°♊					
evening rise	7601 Apr 30 09:30	21°♊25'40					
	7601 May 05 06:03	0°♊					
asc. node	7601 May 08 12:27	5°♊35'20					
evening max el	7601 May 17 06:56	17°♊48'47	18°05'35				
retrograde	7601 May 23 19:53	21°♊10'39					
evening set	7601 May 26 11:37	20°♊37'03					
inferior conj	7601 Jun 01 23:40	15°♊34'47	2°41'19				
minimum elong	7601 Jun 02 02:34	15°♊27'35	2°40'33				
min. Earth dist.	7601 Jun 05 02:08	12°♊31'06	0.61432 AU				
morning rise	7601 Jun 08 15:23	9°♊34'49					
desc. node	7601 Jun 12 13:59	7°♊39'50					
direct	7601 Jun 15 08:13	7°♊16'44					
morning max el	7601 Jun 29 13:34	15°♊16'22	27°54'23				
	7601 Jul 11 13:00	0°♊					
	7601 Jul 29 06:30	0°♊					
morning set	7601 Aug 01 18:58	7°♊03'23					
asc. node	7601 Aug 04 11:45	12°♊41'49					
max. Earth dist.	7601 Aug 07 13:52	19°♊20'49	1.31985 AU				
superior conj	7601 Aug 09 04:18	22°♊51'12	0°46'30				
minimum elong	7601 Aug 09 02:24	22°♊40'48	0°46'04				
	7601 Aug 12 10:13	0°♊					
evening rise	7601 Aug 15 23:21	7°♊42'45					
	7601 Aug 27 11:27	0°♊					
desc. node	7601 Sep 08 13:04	16°♊51'19					
evening max el	7601 Sep 10 20:32	19°♊13'11	24°48'41				
retrograde	7601 Sep 24 16:46	26°♊11'34					
evening set	7601 Sep 30 03:16	25°♊05'12					
min. Earth dist.	7601 Oct 05 07:43	22°♊20'09	0.56940 AU				
inferior conj	7601 Oct 08 02:05	20°♊32'31	-5°27'44				