

superior conj	5600 May 01 16:21	13°♄18'57	-1°25'44	morning set	5601 Apr 01 15:58	3°♄51'21	
minimum elong	5600 May 01 21:02	13°♄41'22	1°25'05	max. Earth dist.	5601 Apr 06 09:20	11°♄46'01	1.40258 AU
	5600 May 10 04:58	0°♄					
evening rise	5600 May 10 12:58	0°♄39'27		superior conj	5601 Apr 14 04:25	25°♄28'59	-1°50'30
asc. node	5600 May 11 04:36	1°♄56'25		minimum elong	5601 Apr 14 09:29	25°♄51'55	1°50'02
evening max el	5600 May 27 01:18	27°♄26'40	19°02'01		5601 Apr 16 15:40	0°♄	
	5600 May 30 05:41	0°♄		evening rise	5601 Apr 24 02:58	14°♄02'32	
retrograde	5600 Jun 04 18:10	1°♄42'31		asc. node	5601 Apr 28 01:39	21°♄27'00	
evening set	5600 Jun 06 18:29	1°♄29'46			5601 May 02 21:56	0°♄	
	5600 Jun 10 16:47	30°♄		evening max el	5601 May 10 06:11	9°♄55'17	18°24'56
inferior conj	5600 Jun 15 00:34	27°♄15'56	0°22'24	retrograde	5601 May 17 17:04	13°♄37'15	
minimum elong	5600 Jun 15 01:28	27°♄14'21	0°22'03	evening set	5601 May 20 00:16	13°♄17'07	
desc. node	5600 Jun 16 06:57	26°♄22'59		inferior conj	5601 May 27 10:27	8°♄43'21	1°51'23
min. Earth dist.	5600 Jun 18 00:57	25°♄11'08	0.56510 AU	minimum elong	5601 May 27 13:44	8°♄36'40	1°50'21
morning rise	5600 Jun 23 05:10	22°♄19'57		min. Earth dist.	5601 May 30 20:41	5°♄57'42	0.58445 AU
direct	5600 Jun 28 09:41	21°♄16'26		desc. node	5601 Jun 03 04:00	3°♄42'00	
morning max el	5600 Jul 12 16:05	28°♄37'40	25°48'10	morning rise	5601 Jun 04 00:02	3°♄14'26	
	5600 Jul 14 01:07	0°♄		direct	5601 Jun 10 01:19	1°♄38'33	
	5600 Aug 03 05:20	0°♄		morning max el	5601 Jun 24 10:35	9°♄21'45	27°04'00
asc. node	5600 Aug 07 03:54	7°♄49'39			5601 Jul 10 04:42	0°♄	
morning set	5600 Aug 09 07:55	12°♄21'23		morning set	5601 Jul 24 17:14	27°♄03'19	
				asc. node	5601 Jul 25 00:56	27°♄43'51	
superior conj	5600 Aug 16 06:09	27°♄27'03	1°22'05		5601 Jul 26 02:33	0°♄	
minimum elong	5600 Aug 16 03:55	27°♄14'47	1°21'48				
max. Earth dist.	5600 Aug 17 03:53	29°♄26'33	1.32238 AU	superior conj	5601 Jul 31 17:59	12°♄20'28	1°04'51
	5600 Aug 17 09:58	0°♄		minimum elong	5601 Jul 31 15:45	12°♄08'02	1°04'28
evening rise	5600 Aug 23 06:25	12°♄33'34		max. Earth dist.	5601 Jul 31 14:45	12°♄02'30	1.31905 AU
	5600 Sep 01 06:08	0°♄		evening rise	5601 Aug 07 13:45	27°♄13'13	
desc. node	5600 Sep 12 06:11	17°♄40'49			5601 Aug 08 21:33	0°♄	
	5600 Sep 22 05:58	0°♄			5601 Aug 25 19:07	0°♄	
evening max el	5600 Sep 24 01:34	1°♄47'39	27°16'56	desc. node	5601 Aug 30 03:14	5°♄54'49	
retrograde	5600 Oct 07 21:44	9°♄01'05		evening max el	5601 Sep 06 03:30	13°♄44'01	26°33'26
evening set	5600 Oct 15 00:55	6°♄40'21		retrograde	5601 Sep 20 01:56	20°♄52'13	
min. Earth dist.	5600 Oct 18 16:11	3°♄51'58	0.61788 AU	evening set	5601 Sep 26 19:42	18°♄58'41	
inferior conj	5600 Oct 21 16:35	1°♄08'37	-3°47'51	min. Earth dist.	5601 Sep 30 17:12	16°♄23'21	0.59734 AU
minimum elong	5600 Oct 21 22:51	0°♄54'26	3°45'59	inferior conj	5601 Oct 03 22:50	13°♄50'26	-4°41'58
	5600 Oct 22 23:20	30°♄		minimum elong	5601 Oct 04 04:52	13°♄38'30	4°40'46
morning rise	5600 Oct 28 22:43	26°♄09'10		morning rise	5601 Oct 11 16:08	9°♄12'47	
direct	5600 Oct 31 06:09	25°♄46'20		direct	5601 Oct 13 23:57	8°♄53'11	
asc. node	5600 Nov 03 03:10	26°♄23'01		asc. node	5601 Oct 21 00:13	12°♄01'37	
morning max el	5600 Nov 07 05:00	29°♄17'09	17°53'02	morning max el	5601 Oct 21 16:06	12°♄38'29	18°15'10
	5600 Nov 07 21:44	0°♄			5601 Nov 02 07:44	0°♄	
morning set	5600 Nov 23 00:14	24°♄02'07		morning set	5601 Nov 06 12:18	7°♄50'35	
	5600 Nov 26 07:25	0°♄					
superior conj	5600 Dec 03 17:23	13°♄04'55	0°38'39	superior conj	5601 Nov 15 20:49	25°♄20'27	1°09'05
minimum elong	5600 Dec 03 20:34	13°♄18'41	0°38'13	minimum elong	5601 Nov 16 00:39	25°♄37'51	1°08'39
desc. node	5600 Dec 09 05:29	22°♄22'51			5601 Nov 18 11:00	0°♄	
max. Earth dist.	5600 Dec 11 01:48	25°♄25'15	1.42946 AU	max. Earth dist.	5601 Nov 23 11:22	8°♄43'29	1.41057 AU
	5600 Dec 13 21:36	0°♄		desc. node	5601 Nov 26 02:30	13°♄08'57	
evening rise	5600 Dec 17 21:40	6°♄21'08		evening rise	5601 Nov 28 06:14	16°♄42'01	
	5601 Jan 02 15:29	0°♄			5601 Dec 06 16:29	0°♄	
evening max el	5601 Jan 18 17:04	20°♄40'07	21°52'55		5601 Dec 28 09:55	0°♄	
retrograde	5601 Jan 27 23:01	26°♄09'44		evening max el	5602 Jan 01 08:58	4°♄19'15	23°12'01
asc. node	5601 Jan 30 02:24	25°♄45'27		retrograde	5602 Jan 11 17:43	10°♄27'25	
evening set	5601 Feb 01 08:59	24°♄23'41		evening set	5602 Jan 16 15:44	8°♄25'45	
inferior conj	5601 Feb 06 17:05	18°♄04'51	2°19'24	asc. node	5602 Jan 16 23:27	8°♄09'01	
minimum elong	5601 Feb 06 14:43	18°♄13'05	2°18'41	min. Earth dist.	5602 Jan 21 15:19	2°♄35'06	0.68127 AU
min. Earth dist.	5601 Feb 06 18:35	17°♄59'41	0.68097 AU	inferior conj	5602 Jan 22 01:13	2°♄00'58	1°38'06
morning rise	5601 Feb 11 20:16	11°♄53'28		minimum elong	5602 Jan 21 23:14	2°♄07'50	1°37'23
direct	5601 Feb 16 18:17	9°♄47'06			5602 Jan 23 12:54	30°♄	
morning max el	5601 Feb 26 13:21	15°♄34'26	22°40'26	morning rise	5602 Jan 27 06:38	25°♄53'59	
desc. node	5601 Mar 07 04:47	25°♄48'27		direct	5602 Jan 31 14:22	24°♄10'31	
	5601 Mar 10 07:36	0°♄		morning max el	5602 Feb 09 04:25	29°♄08'49	21°16'18
	5601 Mar 30 07:13	0°♄			5602 Feb 10 00:21	0°♄	
				desc. node	5602 Feb 22 01:48	15°♄25'29	

	5602 Mar 04 00:03	0°♄		morning set	5603 Feb 19 04:16	21°♁00'07	
morning set	5602 Mar 12 07:04	12°♄47'48			5603 Feb 24 23:04	0°♄	
max. Earth dist.	5602 Mar 19 11:19	24°♄20'07	1.42328 AU	max. Earth dist.	5603 Mar 01 20:48	7°♄46'00	1.43981 AU
	5602 Mar 22 21:19	0°♄					
superior conj	5602 Mar 26 19:26	6°♄39'20	-2°06'27	superior conj	5603 Mar 07 09:18	16°♄41'14	-2°07'59
minimum elong	5602 Mar 26 22:22	6°♄51'52	2°06'22	minimum elong	5603 Mar 07 06:44	16°♄30'47	2°07'56
evening rise	5602 Apr 07 03:28	26°♄44'50		evening rise	5603 Mar 15 09:07	0°♄	
	5602 Apr 08 22:38	0°♄		asc. node	5603 Mar 20 09:57	8°♄36'36	
asc. node	5602 Apr 14 22:42	10°♄35'33			5603 Apr 01 19:45	29°♄14'30	
evening max el	5602 Apr 23 16:44	22°♄51'21	18°07'44	evening max el	5603 Apr 02 08:11	0°♄	
retrograde	5602 Apr 30 09:41	26°♄16'06		retrograde	5603 Apr 07 05:32	6°♄05'38	18°09'53
evening set	5602 May 02 23:50	25°♄45'53		evening set	5603 Apr 13 15:36	9°♄28'20	
inferior conj	5602 May 09 16:50	20°♄51'18	2°49'38	inferior conj	5603 Apr 16 12:06	8°♄46'31	
minimum elong	5602 May 09 19:55	20°♄44'02	2°48'57	minimum elong	5603 Apr 22 16:00	3°♄32'26	3°21'00
min. Earth dist.	5602 May 12 23:03	17°♄48'08	0.60644 AU	min. Earth dist.	5603 Apr 22 17:40	3°♄27'55	3°20'49
morning rise	5602 May 16 13:44	14°♄58'49			5603 Apr 25 10:15	0°♄35'40	0.62789 AU
desc. node	5602 May 21 01:03	13°♄03'23		morning rise	5603 Apr 26 00:20	30°♄	
direct	5602 May 23 04:46	12°♄49'54		direct	5603 Apr 28 21:53	27°♄26'11	
morning max el	5602 Jun 06 11:44	20°♄45'41	27°46'17	desc. node	5603 May 05 17:58	24°♄51'29	
	5602 Jun 14 11:05	0°♄			5603 May 07 22:04	25°♄05'43	
	5602 Jul 03 03:19	0°♄		morning max el	5603 May 16 16:08	0°♄	
morning set	5602 Jul 08 22:46	11°♄31'38			5603 May 19 18:32	2°♄52'22	27°50'44
asc. node	5602 Jul 11 21:58	17°♄46'38		morning set	5603 Jun 08 21:08	0°♄	
max. Earth dist.	5602 Jul 15 01:21	24°♄35'30	1.31994 AU		5603 Jun 22 22:24	25°♄40'07	
				max. Earth dist.	5603 Jun 25 01:15	0°♄	
superior conj	5602 Jul 16 05:08	27°♄08'05	0°43'27	asc. node	5603 Jun 28 07:39	6°♄52'51	1.32514 AU
minimum elong	5602 Jul 16 03:20	26°♄58'14	0°43'04		5603 Jun 28 19:01	7°♄53'44	
	5602 Jul 17 12:20	0°♄		superior conj	5603 Jun 30 13:47	11°♄44'31	0°18'26
evening rise	5602 Jul 23 00:19	11°♄59'30		minimum elong	5603 Jun 30 12:55	11°♄39'50	0°18'12
	5602 Aug 01 02:26	0°♄		evening rise	5603 Jul 07 12:07	26°♄46'19	
desc. node	5602 Aug 17 00:16	22°♄56'24			5603 Jul 09 00:49	0°♄	
evening max el	5602 Aug 18 21:38	24°♄50'33	25°19'27		5603 Jul 26 15:06	0°♄	
	5602 Aug 25 18:59	0°♄		evening max el	5603 Jul 31 10:13	5°♄19'29	23°45'54
retrograde	5602 Sep 01 19:54	1°♄53'50		desc. node	5603 Aug 03 21:18	8°♄17'39	
evening set	5602 Sep 07 15:23	0°♄36'05		retrograde	5603 Aug 14 02:17	12°♄11'30	
	5602 Sep 08 21:55	30°♄		evening set	5603 Aug 18 11:22	11°♄29'19	
min. Earth dist.	5602 Sep 12 09:16	27°♄56'08	0.57708 AU	min. Earth dist.	5603 Aug 24 20:19	8°♄26'28	0.56007 AU
inferior conj	5602 Sep 15 10:15	25°♄51'31	-5°15'57	inferior conj	5603 Aug 27 01:28	7°♄06'19	-5°13'26
minimum elong	5602 Sep 15 12:57	25°♄46'52	5°15'46	minimum elong	5603 Aug 26 21:49	7°♄11'50	5°13'09
morning rise	5602 Sep 23 12:48	21°♄37'05		morning rise	5603 Sep 04 10:44	3°♄10'52	
direct	5602 Sep 26 00:50	21°♄18'17		direct	5603 Sep 07 06:04	2°♄51'05	
morning max el	5602 Oct 04 19:09	25°♄27'48	18°58'20	morning max el	5603 Sep 17 11:16	7°♄36'30	20°03'27
asc. node	5602 Oct 07 21:16	28°♄52'46		asc. node	5603 Sep 24 18:17	16°♄41'30	
	5602 Oct 08 18:00	0°♄			5603 Oct 02 06:40	0°♄	
morning set	5602 Oct 21 10:20	22°♄06'49		morning set	5603 Oct 05 15:02	6°♄41'46	
	5602 Oct 25 10:10	0°♄					
superior conj	5602 Oct 29 19:25	8°♄31'44	1°29'16	superior conj	5603 Oct 13 08:04	22°♄24'18	1°40'11
minimum elong	5602 Oct 29 22:18	8°♄45'31	1°29'01	minimum elong	5603 Oct 13 09:26	22°♄31'13	1°40'07
max. Earth dist.	5602 Nov 05 17:08	21°♄19'30	1.38950 AU		5603 Oct 17 04:36	0°♄	
evening rise	5602 Nov 09 13:24	28°♄03'59		max. Earth dist.	5603 Oct 18 22:48	3°♄21'54	1.36883 AU
	5602 Nov 10 16:34	0°♄		evening rise	5603 Oct 22 18:06	10°♄24'51	
desc. node	5602 Nov 12 23:31	3°♄50'28		desc. node	5603 Oct 30 20:33	24°♄23'25	
	5602 Nov 30 04:15	0°♄			5603 Nov 03 08:19	0°♄	
evening max el	5602 Dec 14 22:15	18°♄01'22	24°31'11	evening max el	5603 Nov 25 17:04	0°♄	
retrograde	5602 Dec 26 08:44	24°♄42'23			5603 Nov 27 10:48	1°♄45'30	25°43'28
evening set	5602 Dec 31 19:53	22°♄25'41		retrograde	5603 Dec 09 19:14	8°♄49'41	
asc. node	5603 Jan 03 20:31	19°♄13'25		evening set	5603 Dec 15 19:46	6°♄20'19	
min. Earth dist.	5603 Jan 05 11:07	17°♄08'58	0.67786 AU	min. Earth dist.	5603 Dec 20 03:44	1°♄38'11	0.67085 AU
inferior conj	5603 Jan 06 08:04	15°♄59'02	0°49'43	inferior conj	5603 Dec 21 11:48	29°♄56'27	-0°04'53
minimum elong	5603 Jan 06 06:54	16°♄02'55	0°49'16	minimum elong	5603 Dec 21 11:55	29°♄56'03	0°04'48
morning rise	5603 Jan 11 18:03	9°♄58'13		transit middle	5603 Dec 21 11:55	29°♄56'03	0°04'48
direct	5603 Jan 15 12:31	8°♄36'53		transit begin	5603 Dec 21 09:14	0°♄04'37	
morning max el	5603 Jan 23 03:09	12°♄55'14	20°03'18	transit end	5603 Dec 21 14:37	29°♄47'30	
	5603 Feb 05 06:19	0°♄			5603 Dec 21 10:41	30°♄	
desc. node	5603 Feb 08 22:49	5°♄27'07		asc. node	5603 Dec 21 17:33	29°♄38'13	
				morning rise	5603 Dec 27 04:31	24°♄03'49	

direct	5603 Dec 30 11:18	23° $\text{♄}$ 01'57		direct	5604 Dec 13 08:57	7° $\text{♄}$ 21'00	
morning max el	5604 Jan 06 09:41	26° $\text{♄}$ 52'02	19°04'49	morning max el	5604 Dec 19 22:20	10° $\text{♄}$ 53'57	18°22'30
	5604 Jan 09 05:17	0° $\text{♄}$			5605 Jan 02 12:18	0° $\text{♄}$	
desc. node	5604 Jan 26 19:49	25° $\text{♄}$ 46'49		morning set	5605 Jan 08 13:03	9° $\text{♄}$ 39'55	
morning set	5604 Jan 29 07:41	29° $\text{♄}$ 39'22		desc. node	5605 Jan 12 16:51	16° $\text{♄}$ 19'24	
	5604 Jan 29 12:59	0° $\text{♄}$			5605 Jan 21 08:01	0° $\text{♄}$	
max. Earth dist.	5604 Feb 12 12:03	21° $\text{♄}$ 48'31	1.45028 AU				
				superior conj	5605 Jan 24 02:52	4° $\text{♄}$ 22'37	-1°14'07
superior conj	5604 Feb 14 23:34	25° $\text{♄}$ 43'09	-1°50'18	minimum elong	5605 Jan 23 18:15	3° $\text{♄}$ 48'46	1°13'06
minimum elong	5604 Feb 14 15:07	25° $\text{♄}$ 09'49	1°49'39	max. Earth dist.	5605 Jan 25 06:44	6° $\text{♄}$ 11'51	1.45361 AU
	5604 Feb 17 16:23	0° $\text{♄}$		evening rise	5605 Feb 09 03:46	29° $\text{♄}$ 30'54	
evening rise	5604 Feb 29 18:25	19° $\text{♄}$ 31'09			5605 Feb 09 11:10	0° $\text{♄}$	
	5604 Mar 07 03:52	0° $\text{♄}$		greatest brilliancy	5605 Feb 19 14:47	15° $\text{♄}$ 54'09	-0.8m
asc. node	5604 Mar 18 16:47	17° $\text{♄}$ 14'29			5605 Mar 01 10:45	0° $\text{♄}$	
evening max el	5604 Mar 20 17:45	19° $\text{♄}$ 30'52	18°30'34	evening max el	5605 Mar 04 03:06	3° $\text{♄}$ 02'29	19°08'44
retrograde	5604 Mar 27 06:09	23° $\text{♄}$ 04'30		asc. node	5605 Mar 05 13:48	4° $\text{♄}$ 24'25	
evening set	5604 Mar 30 09:05	22° $\text{♄}$ 10'02		retrograde	5605 Mar 11 01:49	6° $\text{♄}$ 58'22	
inferior conj	5604 Apr 05 03:43	16° $\text{♄}$ 38'08	3°31'26	evening set	5605 Mar 14 11:50	5° $\text{♄}$ 50'23	
minimum elong	5604 Apr 05 03:50	16° $\text{♄}$ 37'49	3°31'26	inferior conj	5605 Mar 20 00:27	0° $\text{♄}$ 02'18	3°25'51
min. Earth dist.	5604 Apr 07 06:54	14° $\text{♄}$ 06'39	0.64676 AU	minimum elong	5605 Mar 19 23:17	0° $\text{♄}$ 06'03	3°25'44
morning rise	5604 Apr 10 21:50	10° $\text{♄}$ 25'17			5605 Mar 20 01:10	30° $\text{♄}$	
direct	5604 Apr 17 15:15	7° $\text{♄}$ 37'09		min. Earth dist.	5605 Mar 21 12:12	28° $\text{♄}$ 08'01	0.66185 AU
desc. node	5604 Apr 23 19:06	9° $\text{♄}$ 32'16		morning rise	5605 Mar 25 10:21	23° $\text{♄}$ 47'17	
morning max el	5604 May 01 04:12	15° $\text{♄}$ 32'47	27°19'29	direct	5605 Mar 31 19:17	20° $\text{♄}$ 59'04	
	5604 May 13 00:41	0° $\text{♄}$		desc. node	5605 Apr 10 16:06	25° $\text{♄}$ 50'25	
	5604 May 31 14:56	0° $\text{♄}$		morning max el	5605 Apr 13 14:06	28° $\text{♄}$ 35'20	26°19'30
morning set	5604 Jun 05 13:18	9° $\text{♄}$ 19'24			5605 Apr 14 22:38	0° $\text{♄}$	
max. Earth dist.	5604 Jun 10 05:31	18° $\text{♄}$ 42'00	1.33493 AU		5605 May 06 19:31	0° $\text{♄}$	
				morning set	5605 May 19 15:58	22° $\text{♄}$ 19'33	
superior conj	5604 Jun 13 17:53	26° $\text{♄}$ 02'41	-0°09'32	max. Earth dist.	5605 May 23 16:13	0° $\text{♄}$ 00'14	1.34949 AU
minimum elong	5604 Jun 13 18:22	26° $\text{♄}$ 05'18	0°09'28		5605 May 23 16:10	0° $\text{♄}$	
behind sun begin	5604 Jun 13 13:54	25° $\text{♄}$ 41'35					
behind sun end	5604 Jun 13 22:51	26° $\text{♄}$ 29'02		superior conj	5605 May 28 15:09	9° $\text{♄}$ 56'17	-0°39'20
asc. node	5604 Jun 14 16:01	28° $\text{♄}$ 00'12		minimum elong	5605 May 28 17:19	10° $\text{♄}$ 07'25	0°38'55
	5604 Jun 15 14:30	0° $\text{♄}$		asc. node	5605 Jun 01 13:03	18° $\text{♄}$ 02'23	
evening rise	5604 Jun 20 23:14	11° $\text{♄}$ 26'25		evening rise	5605 Jun 05 07:44	25° $\text{♄}$ 54'13	
	5604 Jun 30 12:19	0° $\text{♄}$			5605 Jun 07 07:45	0° $\text{♄}$	
evening max el	5604 Jul 12 00:42	15° $\text{♄}$ 40'35	22°08'41	evening max el	5605 Jun 24 00:52	26° $\text{♄}$ 26'33	20°41'40
desc. node	5604 Jul 20 18:20	21° $\text{♄}$ 23'43			5605 Jun 28 13:04	0° $\text{♄}$	
retrograde	5604 Jul 24 20:45	22° $\text{♄}$ 02'55		retrograde	5605 Jul 05 08:58	2° $\text{♄}$ 00'35	
evening set	5604 Jul 27 18:36	21° $\text{♄}$ 44'06		evening set	5605 Jul 07 10:31	1° $\text{♄}$ 50'16	
min. Earth dist.	5604 Aug 05 06:14	18° $\text{♄}$ 04'34	0.54967 AU	desc. node	5605 Jul 07 15:20	1° $\text{♄}$ 48'12	
inferior conj	5604 Aug 06 00:05	17° $\text{♄}$ 39'27	-4°20'11		5605 Jul 12 19:39	30° $\text{♄}$	
minimum elong	5604 Aug 05 15:26	17° $\text{♄}$ 51'37	4°18'10	inferior conj	5605 Jul 16 17:08	27° $\text{♄}$ 53'21	-2°39'59
morning rise	5604 Aug 14 13:58	13° $\text{♄}$ 49'35		minimum elong	5605 Jul 16 09:51	28° $\text{♄}$ 03'46	2°37'28
direct	5604 Aug 17 19:19	13° $\text{♄}$ 26'25		min. Earth dist.	5605 Jul 17 07:09	27° $\text{♄}$ 19'01	0.54838 AU
morning max el	5604 Aug 29 15:05	18° $\text{♄}$ 58'15	21°29'17	morning rise	5605 Jul 25 08:44	23° $\text{♄}$ 49'46	
	5604 Sep 07 11:19	0° $\text{♄}$		direct	5605 Jul 29 04:37	23° $\text{♄}$ 18'15	
asc. node	5604 Sep 10 15:18	5° $\text{♄}$ 13'44		morning max el	5605 Aug 11 08:44	29° $\text{♄}$ 38'42	23°10'01
morning set	5604 Sep 18 23:55	21° $\text{♄}$ 27'27			5605 Aug 11 17:43	0° $\text{♄}$	
	5604 Sep 23 01:25	0° $\text{♄}$		asc. node	5605 Aug 28 12:20	24° $\text{♄}$ 19'07	
					5605 Aug 31 09:49	0° $\text{♄}$	
superior conj	5604 Sep 26 06:31	6° $\text{♄}$ 44'43	1°43'11	morning set	5605 Sep 03 11:04	6° $\text{♄}$ 18'50	
minimum elong	5604 Sep 26 06:25	6° $\text{♄}$ 44'14	1°43'10				
max. Earth dist.	5604 Sep 30 09:57	15° $\text{♄}$ 13'24	1.35069 AU	superior conj	5605 Sep 10 11:38	21° $\text{♄}$ 23'43	1°39'26
evening rise	5604 Oct 04 16:24	23° $\text{♄}$ 33'57		minimum elong	5605 Sep 10 10:23	21° $\text{♄}$ 16'59	1°39'22
	5604 Oct 08 03:27	0° $\text{♄}$		max. Earth dist.	5605 Sep 13 05:55	27° $\text{♄}$ 15'49	1.33638 AU
desc. node	5604 Oct 16 17:35	14° $\text{♄}$ 41'58			5605 Sep 14 13:22	0° $\text{♄}$	
	5604 Oct 26 23:37	0° $\text{♄}$		evening rise	5605 Sep 18 04:10	7° $\text{♄}$ 20'36	
evening max el	5604 Nov 08 23:37	15° $\text{♄}$ 26'26	26°41'40		5605 Sep 30 16:37	0° $\text{♄}$	
retrograde	5604 Nov 22 00:29	22° $\text{♄}$ 42'25		desc. node	5605 Oct 03 14:35	4° $\text{♄}$ 39'35	
evening set	5604 Nov 28 13:27	20° $\text{♄}$ 04'50		evening max el	5605 Oct 22 12:13	28° $\text{♄}$ 54'25	27°18'16
min. Earth dist.	5604 Dec 02 14:54	15° $\text{♄}$ 57'47	0.66026 AU		5605 Oct 23 16:36	0° $\text{♄}$	
inferior conj	5604 Dec 04 10:25	13° $\text{♄}$ 49'06	-1°04'39	retrograde	5605 Nov 04 23:37	6° $\text{♄}$ 12'32	
minimum elong	5604 Dec 04 12:14	13° $\text{♄}$ 43'43	1°03'51	evening set	5605 Nov 11 22:34	3° $\text{♄}$ 33'42	
asc. node	5604 Dec 07 14:33	10° $\text{♄}$ 19'09			5605 Nov 15 18:40	30° $\text{♄}$	
morning rise	5604 Dec 10 11:51	8° $\text{♄}$ 07'09		min. Earth dist.	5605 Nov 15 18:16	0° $\text{♄}$ 01'03	0.64624 AU

inferior conj	5605 Nov 18 01:36	27° $\mathbb{M}$ 31'32	-2°08'02	minimum elong	5606 Nov 01 12:14	10° $\mathbb{M}$ 44'03	3°10'20
minimum elong	5605 Nov 18 05:22	27° $\mathbb{M}$ 21'22	2°06'32	morning rise	5606 Nov 08 06:00	5° $\mathbb{M}$ 46'41	
asc. node	5605 Nov 24 11:35	22° $\mathbb{M}$ 05'24		direct	5606 Nov 10 15:00	5° $\mathbb{M}$ 20'30	
morning rise	5605 Nov 24 13:25	22° $\mathbb{M}$ 03'22		asc. node	5606 Nov 11 08:38	5° $\mathbb{M}$ 23'04	
direct	5605 Nov 27 03:11	21° $\mathbb{M}$ 29'01		morning max el	5606 Nov 17 07:21	8° $\mathbb{M}$ 46'34	17°49'15
morning max el	5605 Dec 03 14:30	24° $\mathbb{M}$ 54'13	17°57'05		5606 Dec 01 07:33	0° $\mathbb{M}$	
	5605 Dec 07 19:48	0° $\mathbb{M}$		morning set	5606 Dec 03 10:36	3° $\mathbb{M}$ 44'42	
morning set	5605 Dec 20 23:47	21° $\mathbb{M}$ 07'30					
	5605 Dec 26 07:28	0° $\mathbb{M}$		superior conj	5606 Dec 15 03:01	23° $\mathbb{M}$ 54'04	0°16'28
desc. node	5605 Dec 30 13:51	7° $\mathbb{M}$ 00'12		minimum elong	5606 Dec 15 04:39	24° $\mathbb{M}$ 00'52	0°16'16
				desc. node	5606 Dec 17 10:52	27° $\mathbb{M}$ 45'56	
superior conj	5606 Jan 03 15:10	13° $\mathbb{M}$ 33'10	-0°28'08		5606 Dec 18 19:31	0° $\mathbb{M}$	
minimum elong	5606 Jan 03 11:48	13° $\mathbb{M}$ 19'39	0°27'39	max. Earth dist.	5606 Dec 21 19:27	4° $\mathbb{M}$ 51'44	1.43848 AU
max. Earth dist.	5606 Jan 08 02:10	20° $\mathbb{M}$ 38'43	1.44950 AU	evening rise	5606 Dec 30 05:54	18° $\mathbb{M}$ 09'28	
	5606 Jan 14 01:30	0° $\mathbb{M}$			5607 Jan 07 00:41	0° $\mathbb{M}$	
evening rise	5606 Jan 19 19:15	8° $\mathbb{M}$ 52'29			5607 Jan 29 02:27	0° $\mathbb{M}$	
	5606 Feb 02 17:49	0° $\mathbb{M}$		evening max el	5607 Jan 29 07:02	0° $\mathbb{M}$ 11'44	21°09'46
greatest brilliancy	5606 Feb 03 08:32	0° $\mathbb{M}$ 54'10	-0.6m	retrograde	5607 Feb 06 21:54	5° $\mathbb{M}$ 17'51	
evening max el	5606 Feb 15 07:48	16° $\mathbb{M}$ 36'33	20°02'42	asc. node	5607 Feb 07 07:53	5° $\mathbb{M}$ 16'56	
asc. node	5606 Feb 20 10:51	20° $\mathbb{M}$ 30'05		evening set	5607 Feb 11 01:46	3° $\mathbb{M}$ 40'25	
retrograde	5606 Feb 22 23:46	21° $\mathbb{M}$ 04'10			5607 Feb 14 12:21	30° $\mathbb{M}$	
evening set	5606 Feb 26 18:02	19° $\mathbb{M}$ 41'48		inferior conj	5607 Feb 16 09:45	27° $\mathbb{M}$ 26'32	2°39'36
inferior conj	5606 Mar 04 03:16	13° $\mathbb{M}$ 39'33	3°07'47	minimum elong	5607 Feb 16 07:23	27° $\mathbb{M}$ 34'45	2°38'58
minimum elong	5606 Mar 04 01:15	13° $\mathbb{M}$ 46'19	3°07'25	min. Earth dist.	5607 Feb 16 18:03	26° $\mathbb{M}$ 57'52	0.67915 AU
min. Earth dist.	5606 Mar 05 00:35	12° $\mathbb{M}$ 27'47	0.67266 AU	morning rise	5607 Feb 21 12:50	21° $\mathbb{M}$ 13'36	
morning rise	5606 Mar 09 08:16	7° $\mathbb{M}$ 24'47		direct	5607 Feb 26 19:10	18° $\mathbb{M}$ 55'03	
direct	5606 Mar 15 04:50	4° $\mathbb{M}$ 47'43		morning max el	5607 Mar 09 07:59	25° $\mathbb{M}$ 11'04	23°31'36
morning max el	5606 Mar 26 23:00	11° $\mathbb{M}$ 49'32	25°00'08		5607 Mar 13 16:34	0° $\mathbb{M}$	
desc. node	5606 Mar 28 13:08	13° $\mathbb{M}$ 29'22		desc. node	5607 Mar 15 10:11	2° $\mathbb{M}$ 06'22	
	5606 Apr 10 12:31	0° $\mathbb{M}$			5607 Apr 04 00:34	0° $\mathbb{M}$	
	5606 Apr 29 12:59	0° $\mathbb{M}$		morning set	5607 Apr 13 12:37	15° $\mathbb{M}$ 27'11	
morning set	5606 May 02 01:39	4° $\mathbb{M}$ 27'01		max. Earth dist.	5607 Apr 17 12:26	22° $\mathbb{M}$ 19'55	1.38995 AU
max. Earth dist.	5606 May 05 16:41	11° $\mathbb{M}$ 02'20	1.36835 AU		5607 Apr 21 19:24	0° $\mathbb{M}$	
superior conj	5606 May 12 02:36	23° $\mathbb{M}$ 17'02	-1°09'20	superior conj	5607 Apr 25 00:30	5° $\mathbb{M}$ 55'48	-1°37'00
minimum elong	5606 May 12 06:29	23° $\mathbb{M}$ 36'11	1°08'41	minimum elong	5607 Apr 25 05:33	6° $\mathbb{M}$ 19'28	1°36'24
	5606 May 15 11:43	0° $\mathbb{M}$		evening rise	5607 May 04 07:17	23° $\mathbb{M}$ 45'11	
asc. node	5606 May 19 10:05	7° $\mathbb{M}$ 55'48		asc. node	5607 May 06 07:08	27° $\mathbb{M}$ 36'11	
evening rise	5606 May 20 11:19	10° $\mathbb{M}$ 02'49			5607 May 07 13:17	0° $\mathbb{M}$	
	5606 May 31 08:23	0° $\mathbb{M}$		evening max el	5607 May 20 13:24	20° $\mathbb{M}$ 00'28	18°43'40
evening max el	5606 Jun 06 13:33	7° $\mathbb{M}$ 52'54	19°32'30	retrograde	5607 May 28 16:09	24° $\mathbb{M}$ 00'18	
retrograde	5606 Jun 16 04:00	12° $\mathbb{M}$ 34'56		evening set	5607 May 30 19:10	23° $\mathbb{M}$ 44'50	
evening set	5606 Jun 18 02:06	12° $\mathbb{M}$ 24'29		inferior conj	5607 Jun 07 16:36	19° $\mathbb{M}$ 22'27	1°03'57
desc. node	5606 Jun 24 12:21	9° $\mathbb{M}$ 44'29		minimum elong	5607 Jun 07 18:54	19° $\mathbb{M}$ 18'11	1°03'08
inferior conj	5606 Jun 26 19:12	8° $\mathbb{M}$ 19'33	-0°41'08	min. Earth dist.	5607 Jun 10 22:59	16° $\mathbb{M}$ 57'57	0.57274 AU
minimum elong	5606 Jun 26 17:21	8° $\mathbb{M}$ 22'30	0°40'27	desc. node	5607 Jun 11 09:24	16° $\mathbb{M}$ 39'44	
min. Earth dist.	5606 Jun 29 06:11	6° $\mathbb{M}$ 46'04	0.55662 AU	morning rise	5607 Jun 15 15:16	14° $\mathbb{M}$ 11'26	
morning rise	5606 Jul 05 06:06	3° $\mathbb{M}$ 45'08		direct	5607 Jun 21 04:56	12° $\mathbb{M}$ 55'10	
direct	5606 Jul 09 21:48	2° $\mathbb{M}$ 56'39		morning max el	5607 Jul 05 13:43	20° $\mathbb{M}$ 26'57	26°24'13
morning max el	5606 Jul 23 22:05	9° $\mathbb{M}$ 58'26	24°53'47		5607 Jul 13 18:59	0° $\mathbb{M}$	
	5606 Aug 07 22:42	0° $\mathbb{M}$			5607 Jul 31 12:25	0° $\mathbb{M}$	
asc. node	5606 Aug 15 09:22	13° $\mathbb{M}$ 048'56		asc. node	5607 Aug 02 06:24	3° $\mathbb{M}$ 35'49	
morning set	5606 Aug 18 22:49	21° $\mathbb{M}$ 10'54		morning set	5607 Aug 03 09:29	5° $\mathbb{M}$ 57'59	
	5606 Aug 23 00:44	0° $\mathbb{M}$					
superior conj	5606 Aug 25 20:57	6° $\mathbb{M}$ 13'42	1°29'54	superior conj	5607 Aug 10 08:23	21° $\mathbb{M}$ 07'19	1°15'20
minimum elong	5606 Aug 25 18:57	6° $\mathbb{M}$ 02'44	1°29'42	minimum elong	5607 Aug 10 06:06	20° $\mathbb{M}$ 54'39	1°14'59
max. Earth dist.	5606 Aug 27 10:05	9° $\mathbb{M}$ 36'07	1.32622 AU	max. Earth dist.	5607 Aug 10 19:30	22° $\mathbb{M}$ 08'43	1.32037 AU
evening rise	5606 Sep 02 01:47	21° $\mathbb{M}$ 34'38			5607 Aug 14 09:32	0° $\mathbb{M}$	
	5606 Sep 06 07:26	0° $\mathbb{M}$		evening rise	5607 Aug 17 06:15	6° $\mathbb{M}$ 06'39	
desc. node	5606 Sep 20 11:36	24° $\mathbb{M}$ 07'38			5607 Aug 29 21:06	0° $\mathbb{M}$	
	5606 Sep 24 15:13	0° $\mathbb{M}$		desc. node	5607 Sep 07 08:38	12° $\mathbb{M}$ 53'18	
evening max el	5606 Oct 04 22:40	11° $\mathbb{M}$ 56'47	27°26'43	evening max el	5607 Sep 17 04:11	24° $\mathbb{M}$ 19'04	27°02'32
retrograde	5606 Oct 18 16:07	19° $\mathbb{M}$ 12'00			5607 Sep 24 23:59	0° $\mathbb{M}$	
evening set	5606 Oct 25 20:08	16° $\mathbb{M}$ 41'13		retrograde	5607 Oct 01 01:15	1° $\mathbb{M}$ 30'25	
min. Earth dist.	5606 Oct 29 11:49	13° $\mathbb{M}$ 39'19	0.62903 AU		5607 Oct 06 21:11	30° $\mathbb{M}$	
inferior conj	5606 Nov 01 06:40	10° $\mathbb{M}$ 57'34	-3°12'15	evening set	5607 Oct 08 02:06	29° $\mathbb{M}$ 19'28	
				min. Earth dist.	5607 Oct 11 18:33	26° $\mathbb{M}$ 38'58	0.60926 AU

inferior conj	5607 Oct 14 22:13	23° $\Omega$ 57'44	-4°12'25	inferior conj	5608 Sep 25 20:45	6° $\Omega$ 22'40	-4°59'47
minimum elong	5607 Oct 15 04:41	23° $\Omega$ 43'55	4°10'43	minimum elong	5608 Sep 26 01:49	6° $\Omega$ 13'13	4°59'01
morning rise	5607 Oct 22 09:18	19° $\Omega$ 07'33		morning rise	5608 Oct 03 18:20	1° $\Omega$ 55'13	
direct	5607 Oct 24 16:30	18° $\Omega$ 46'26		direct	5608 Oct 06 03:19	1° $\Omega$ 36'22	
asc. node	5607 Oct 29 05:42	20° $\Omega$ 12'57		morning max el	5608 Oct 14 05:42	5° $\Omega$ 30'49	18°30'55
morning max el	5607 Oct 31 21:34	22° $\Omega$ 21'55	18°00'03	asc. node	5608 Oct 15 02:44	6° $\Omega$ 23'51	
	5607 Nov 06 19:48	0° $\mathbb{M}$			5608 Oct 29 16:44	0° $\mathbb{M}$	
morning set	5607 Nov 16 14:59	17° $\mathbb{M}$ 11'12		morning set	5608 Oct 30 07:43	1° $\mathbb{M}$ 12'08	
	5607 Nov 23 14:47	0° $\mathbb{X}$					
superior conj	5607 Nov 26 17:03	5° $\mathbb{X}$ 30'51	0°52'49	superior conj	5608 Nov 08 05:17	18° $\mathbb{M}$ 11'40	1°18'51
minimum elong	5607 Nov 26 20:47	5° $\mathbb{X}$ 47'18	0°52'20	minimum elong	5608 Nov 08 08:50	18° $\mathbb{M}$ 28'10	1°18'28
desc. node	5607 Dec 04 07:53	18° $\mathbb{X}$ 32'42			5608 Nov 14 18:14	0° $\mathbb{X}$	
max. Earth dist.	5607 Dec 04 07:45	18° $\mathbb{X}$ 32'06	1.42186 AU	max. Earth dist.	5608 Nov 15 14:46	1° $\mathbb{X}$ 29'29	1.40170 AU
evening rise	5607 Dec 10 03:09	27° $\mathbb{X}$ 58'34		evening rise	5608 Nov 19 21:06	8° $\mathbb{X}$ 44'38	
	5607 Dec 11 09:47	0° $\mathbb{Z}$		desc. node	5608 Nov 20 04:55	9° $\mathbb{X}$ 17'08	
	5607 Dec 31 17:43	0° $\approx$			5608 Dec 03 10:03	0° $\mathbb{Z}$	
evening max el	5608 Jan 12 01:02	13° $\approx$ 48'08	22°26'02	evening max el	5608 Dec 24 15:29	27° $\mathbb{Z}$ 28'02	23°46'04
retrograde	5608 Jan 21 18:24	19° $\approx$ 35'02			5608 Dec 27 09:22	0° $\approx$	
asc. node	5608 Jan 25 04:57	18° $\approx$ 33'17		retrograde	5609 Jan 04 11:48	3° $\approx$ 51'48	
evening set	5608 Jan 26 09:21	17° $\approx$ 42'10		evening set	5609 Jan 09 15:11	1° $\approx$ 43'43	
inferior conj	5608 Jan 31 17:51	11° $\approx$ 20'03	2°02'47	asc. node	5609 Jan 11 02:00	0° $\approx$ 20'08	
minimum elong	5608 Jan 31 15:35	11° $\approx$ 27'55	2°02'03		5609 Jan 11 09:23	30° $\mathbb{R}$ $\mathbb{Z}$	
min. Earth dist.	5608 Jan 31 14:20	11° $\approx$ 32'15	0.68158 AU	min. Earth dist.	5609 Jan 14 11:04	26° $\mathbb{Z}$ 07'09	0.68024 AU
morning rise	5608 Feb 05 21:41	5° $\approx$ 10'18		inferior conj	5609 Jan 15 01:40	25° $\mathbb{Z}$ 17'23	1°18'24
direct	5608 Feb 10 13:24	3° $\approx$ 13'52		minimum elong	5609 Jan 14 23:58	25° $\mathbb{Z}$ 23'10	1°17'46
morning max el	5608 Feb 19 19:53	8° $\approx$ 40'00	22°03'32	morning rise	5609 Jan 20 08:43	19° $\mathbb{Z}$ 12'31	
desc. node	5608 Mar 01 07:12	21° $\approx$ 24'50		direct	5609 Jan 24 10:35	17° $\mathbb{Z}$ 38'42	
	5608 Mar 07 09:38	0° $\mathbb{H}$		morning max el	5609 Feb 01 13:59	22° $\mathbb{Z}$ 19'07	20°43'30
morning set	5608 Mar 23 19:48	25° $\mathbb{H}$ 08'13			5609 Feb 08 02:40	0° $\approx$	
	5608 Mar 26 19:29	0° $\mathbb{Y}$		desc. node	5609 Feb 16 04:12	11° $\approx$ 13'09	
max. Earth dist.	5608 Mar 29 10:18	4° $\mathbb{Y}$ 20'38	1.41170 AU		5609 Feb 28 16:33	0° $\mathbb{H}$	
superior conj	5608 Apr 06 04:13	17° $\mathbb{Y}$ 41'39	-1°58'39	morning set	5609 Mar 03 00:57	3° $\mathbb{H}$ 38'29	
minimum elong	5608 Apr 06 08:46	18° $\mathbb{Y}$ 01'48	1°58'22	max. Earth dist.	5609 Mar 11 14:53	17° $\mathbb{H}$ 15'32	1.43093 AU
	5608 Apr 12 23:12	0° $\mathbb{B}$		superior conj	5609 Mar 18 08:50	28° $\mathbb{H}$ 23'12	-2°09'13
evening rise	5608 Apr 16 16:07	6° $\mathbb{B}$ 52'27		minimum elong	5609 Mar 18 09:48	28° $\mathbb{H}$ 27'14	2°09'13
asc. node	5608 Apr 22 04:12	16° $\mathbb{B}$ 58'25			5609 Mar 19 07:49	0° $\mathbb{Y}$	
	5608 Apr 30 11:14	0° $\mathbb{II}$		evening rise	5609 Mar 30 09:29	19° $\mathbb{Y}$ 13'55	
evening max el	5608 May 02 21:07	2° $\mathbb{II}$ 42'04	18°15'13		5609 Apr 05 12:20	0° $\mathbb{B}$	
retrograde	5608 May 09 23:11	6° $\mathbb{II}$ 15'02		asc. node	5609 Apr 09 01:15	5° $\mathbb{B}$ 55'16	
evening set	5608 May 12 09:14	5° $\mathbb{II}$ 51'02		evening max el	5609 Apr 16 09:03	15° $\mathbb{B}$ 47'01	18°06'23
inferior conj	5608 May 19 11:40	1° $\mathbb{II}$ 08'29	2°19'42	retrograde	5609 Apr 22 21:50	19° $\mathbb{B}$ 08'57	
minimum elong	5608 May 19 15:05	1° $\mathbb{II}$ 01'02	2°18'46	evening set	5609 Apr 25 14:43	18° $\mathbb{B}$ 34'00	
	5608 May 20 18:59	30° $\mathbb{R}$ $\mathbb{B}$		inferior conj	5609 May 02 01:41	13° $\mathbb{B}$ 31'17	3°05'50
min. Earth dist.	5608 May 22 21:34	28° $\mathbb{B}$ 12'02	0.59362 AU	minimum elong	5609 May 02 04:14	13° $\mathbb{B}$ 24'53	3°05'23
morning rise	5608 May 26 18:03	25° $\mathbb{B}$ 27'51		min. Earth dist.	5609 May 05 03:38	10° $\mathbb{B}$ 27'50	0.61580 AU
desc. node	5608 May 28 06:27	24° $\mathbb{B}$ 41'31		morning rise	5609 May 08 15:52	7° $\mathbb{B}$ 31'57	
direct	5608 Jun 02 02:05	23° $\mathbb{B}$ 37'22		direct	5609 May 15 10:16	5° $\mathbb{B}$ 10'22	
	5608 Jun 14 22:05	0° $\mathbb{II}$		desc. node	5609 May 15 03:29	5° $\mathbb{B}$ 10'36	
morning max el	5608 Jun 16 11:15	1° $\mathbb{II}$ 27'53	27°26'35	morning max el	5609 May 29 14:53	13° $\mathbb{B}$ 09'45	27°52'41
	5608 Jul 07 00:34	0° $\mathbb{E}$			5609 Jun 12 01:14	0° $\mathbb{II}$	
morning set	5608 Jul 17 17:26	20° $\mathbb{E}$ 35'01			5609 Jun 29 10:05	0° $\mathbb{E}$	
asc. node	5608 Jul 19 03:27	23° $\mathbb{E}$ 34'24		morning set	5609 Jul 01 20:41	4° $\mathbb{E}$ 55'13	
	5608 Jul 22 02:53	0° $\mathbb{Q}$		asc. node	5609 Jul 06 00:29	13° $\mathbb{E}$ 39'16	
superior conj	5608 Jul 24 20:09	5° $\mathbb{Q}$ 59'05	0°56'16	max. Earth dist.	5609 Jul 07 15:37	17° $\mathbb{E}$ 10'37	1.32159 AU
minimum elong	5608 Jul 24 18:03	5° $\mathbb{Q}$ 47'25	0°55'51	superior conj	5609 Jul 09 06:26	20° $\mathbb{E}$ 42'22	0°33'15
max. Earth dist.	5608 Jul 24 06:37	4° $\mathbb{Q}$ 44'17	1.31882 AU	minimum elong	5609 Jul 09 04:59	20° $\mathbb{E}$ 34'25	0°32'55
evening rise	5608 Jul 31 15:12	20° $\mathbb{Q}$ 49'41			5609 Jul 13 12:10	0° $\mathbb{Q}$	
	5608 Aug 05 02:04	0° $\mathbb{N}$		evening rise	5609 Jul 16 02:29	5° $\mathbb{Q}$ 36'27	
	5608 Aug 23 16:35	0° $\mathbb{E}$			5609 Jul 28 22:14	0° $\mathbb{N}$	
desc. node	5608 Aug 24 05:40	0° $\mathbb{E}$ 39'22		evening max el	5609 Aug 10 17:50	16° $\mathbb{N}$ 40'43	24°41'13
evening max el	5608 Aug 29 02:35	5° $\mathbb{E}$ 52'58	26°05'14	desc. node	5609 Aug 11 02:42	17° $\mathbb{N}$ 01'44	
retrograde	5608 Sep 12 01:43	13° $\mathbb{E}$ 00'15		retrograde	5609 Aug 24 14:59	23° $\mathbb{N}$ 40'30	
evening set	5608 Sep 18 11:34	11° $\mathbb{E}$ 21'05		evening set	5609 Aug 29 20:37	22° $\mathbb{N}$ 39'01	
min. Earth dist.	5608 Sep 22 15:26	8° $\mathbb{E}$ 46'05	0.58847 AU	min. Earth dist.	5609 Sep 04 05:07	19° $\mathbb{N}$ 51'00	0.56921 AU
				inferior conj	5609 Sep 06 23:28	18° $\mathbb{N}$ 03'51	-5°20'25

minimum elong	5609 Sep 06 23:42	18° $\mathbb{M}$ 03'28	5°20'25	evening set	5610 Aug 09 08:47	3° $\mathbb{M}$ 12'44	
morning rise	5609 Sep 15 05:07	13° $\mathbb{M}$ 58'05		min. Earth dist.	5610 Aug 16 15:06	29° $\mathcal{Q}$ 56'03	0.55469 AU
direct	5609 Sep 17 19:48	13° $\mathbb{M}$ 39'07			5610 Aug 16 12:20	30° $\mathbb{R}$ $\mathcal{Q}$	
morning max el	5609 Sep 27 04:18	18° $\mathbb{M}$ 03'05	19°23'22	inferior conj	5610 Aug 18 06:40	28° $\mathcal{Q}$ 58'44	-4°57'24
asc. node	5609 Oct 01 23:44	23° $\mathbb{M}$ 40'39		minimum elong	5610 Aug 18 00:20	29° $\mathcal{Q}$ 07'57	4°56'28
	5609 Oct 06 01:54	0° $\mathcal{Q}$		morning rise	5610 Aug 26 18:05	25° $\mathcal{Q}$ 07'43	
morning set	5609 Oct 14 08:53	15° $\mathcal{Q}$ 36'44		direct	5610 Aug 29 17:38	24° $\mathcal{Q}$ 46'40	
	5609 Oct 21 13:40	0° $\mathbb{M}$		morning max el	5610 Sep 09 14:57	29° $\mathcal{Q}$ 50'42	20°37'43
					5610 Sep 09 18:55	0° $\mathbb{M}$	
superior conj	5609 Oct 22 10:21	1° $\mathbb{M}$ 41'25	1°34'56	asc. node	5610 Sep 18 20:46	11° $\mathbb{M}$ 48'59	
minimum elong	5609 Oct 22 12:38	1° $\mathbb{M}$ 52'30	1°34'47	morning set	5610 Sep 28 15:37	0° $\mathcal{Q}$ 16'42	
max. Earth dist.	5609 Oct 28 19:42	13° $\mathbb{M}$ 48'10	1.38050 AU		5610 Sep 28 12:21	0° $\mathcal{Q}$	
evening rise	5609 Nov 01 13:48	20° $\mathbb{M}$ 32'30					
desc. node	5609 Nov 07 01:56	29° $\mathbb{M}$ 55'31		superior conj	5610 Oct 06 03:33	15° $\mathcal{Q}$ 46'24	1°42'20
	5609 Nov 07 03:01	0° $\mathcal{Z}$		minimum elong	5610 Oct 06 04:17	15° $\mathcal{Q}$ 50'08	1°42'20
	5609 Nov 27 11:16	0° $\mathcal{Z}$		max. Earth dist.	5610 Oct 11 03:26	25° $\mathcal{Q}$ 44'02	1.36069 AU
evening max el	5609 Dec 07 04:27	11° $\mathcal{Z}$ 12'10	25°03'19		5610 Oct 13 08:50	0° $\mathbb{M}$	
retrograde	5609 Dec 19 00:57	18° $\mathcal{Z}$ 04'07		evening rise	5610 Oct 15 02:25	3° $\mathbb{M}$ 14'35	
evening set	5609 Dec 24 17:43	15° $\mathcal{Z}$ 41'57		desc. node	5610 Oct 24 22:57	20° $\mathbb{M}$ 22'51	
asc. node	5609 Dec 28 23:01	11° $\mathcal{Z}$ 01'53			5610 Oct 31 02:23	0° $\mathcal{Z}$	
min. Earth dist.	5609 Dec 29 05:52	10° $\mathcal{Z}$ 39'40	0.67529 AU	evening max el	5610 Nov 19 17:11	24° $\mathcal{Z}$ 56'00	26°10'31
inferior conj	5609 Dec 30 07:25	9° $\mathcal{Z}$ 15'58	0°27'19		5610 Nov 26 00:22	0° $\mathcal{Z}$	
minimum elong	5609 Dec 30 06:45	9° $\mathcal{Z}$ 18'11	0°27'04	retrograde	5610 Dec 02 09:03	2° $\mathcal{Z}$ 05'46	
morning rise	5610 Jan 04 19:59	3° $\mathcal{Z}$ 18'07			5610 Dec 08 01:12	30° $\mathbb{R}$ $\mathcal{Z}$	
direct	5610 Jan 08 09:19	2° $\mathcal{Z}$ 05'17		evening set	5610 Dec 08 15:10	29° $\mathcal{Z}$ 32'19	
morning max el	5610 Jan 15 16:02	6° $\mathcal{Z}$ 10'09	19°36'30	min. Earth dist.	5610 Dec 12 20:21	25° $\mathcal{Z}$ 05'13	0.66677 AU
greatest brilliancy	5610 Jan 28 16:11	23° $\mathcal{Z}$ 18'25	-0.7m	inferior conj	5610 Dec 14 09:12	23° $\mathcal{Z}$ 11'34	-0°29'39
	5610 Feb 02 03:13	0° $\approx$		minimum elong	5610 Dec 14 10:00	23° $\mathcal{Z}$ 09'06	0°29'17
desc. node	5610 Feb 03 01:13	1° $\approx$ 23'27		asc. node	5610 Dec 15 20:02	21° $\mathcal{Z}$ 26'03	
morning set	5610 Feb 09 21:40	11° $\approx$ 53'28		morning rise	5610 Dec 20 05:23	17° $\mathcal{Z}$ 23'12	
	5610 Feb 21 12:07	0° $\mathcal{H}$		direct	5610 Dec 23 07:54	16° $\mathcal{Z}$ 28'20	
max. Earth dist.	5610 Feb 22 03:15	0° $\mathcal{H}$ 59'54	1.44515 AU	morning max el	5610 Dec 30 01:24	20° $\mathcal{Z}$ 09'28	18°44'53
					5611 Jan 06 19:11	0° $\mathcal{Z}$	
superior conj	5610 Feb 26 12:04	7° $\mathcal{H}$ 58'09	-2°02'59	morning set	5611 Jan 20 10:45	21° $\mathcal{Z}$ 04'06	
minimum elong	5610 Feb 26 06:42	7° $\mathcal{H}$ 36'33	2°02'44	desc. node	5611 Jan 20 22:12	21° $\mathcal{Z}$ 49'06	
	5610 Mar 11 21:03	0° $\mathcal{Y}$			5611 Jan 26 03:14	0° $\approx$	
evening rise	5610 Mar 12 07:01	0° $\mathcal{Y}$ 42'01		max. Earth dist.	5611 Feb 04 20:54	15° $\approx$ 15'34	1.45266 AU
asc. node	5610 Mar 26 22:17	24° $\mathcal{Y}$ 19'01					
evening max el	5610 Mar 30 22:02	29° $\mathcal{Y}$ 07'18	18°16'26	superior conj	5611 Feb 05 19:25	16° $\approx$ 43'57	-1°36'52
	5610 Mar 31 20:23	0° $\mathcal{B}$		minimum elong	5611 Feb 05 09:59	16° $\approx$ 06'54	1°35'57
retrograde	5610 Apr 06 07:49	2° $\mathcal{B}$ 32'41			5611 Feb 14 05:11	0° $\mathcal{H}$	
evening set	5610 Apr 09 07:09	1° $\mathcal{B}$ 45'27		evening rise	5611 Feb 21 05:32	11° $\mathcal{H}$ 12'40	
	5610 Apr 11 18:37	30° $\mathbb{R}$ $\mathcal{Y}$		greatest brilliancy	5611 Feb 28 07:11	22° $\mathcal{H}$ 34'27	-0.9m
inferior conj	5610 Apr 15 06:39	26° $\mathcal{Y}$ 23'36	3°27'38		5611 Mar 05 00:17	0° $\mathcal{Y}$	
minimum elong	5610 Apr 15 07:39	26° $\mathcal{Y}$ 20'48	3°27'33	asc. node	5611 Mar 13 19:18	11° $\mathcal{Y}$ 59'19	
min. Earth dist.	5610 Apr 17 18:41	23° $\mathcal{Y}$ 35'53	0.63645 AU	evening max el	5611 Mar 14 09:17	12° $\mathcal{Y}$ 35'49	18°44'39
morning rise	5610 Apr 21 07:09	20° $\mathcal{Y}$ 14'09		retrograde	5611 Mar 21 01:03	16° $\mathcal{Y}$ 17'32	
direct	5610 Apr 28 03:07	17° $\mathcal{Y}$ 32'07		evening set	5611 Mar 24 06:57	15° $\mathcal{Y}$ 17'14	
desc. node	5610 May 02 00:30	18° $\mathcal{Y}$ 18'03		inferior conj	5611 Mar 29 22:38	9° $\mathcal{Y}$ 37'57	3°30'46
morning max el	5610 May 11 23:02	25° $\mathcal{Y}$ 31'17	27°41'20	minimum elong	5611 Mar 29 22:09	9° $\mathcal{Y}$ 39'26	3°30'45
	5610 May 16 01:41	0° $\mathcal{B}$		min. Earth dist.	5611 Mar 31 19:04	7° $\mathcal{Y}$ 21'37	0.65374 AU
	5610 Jun 05 13:24	0° $\mathbb{I}$		morning rise	5611 Apr 04 12:51	3° $\mathcal{Y}$ 23'52	
morning set	5610 Jun 15 16:54	18° $\mathbb{I}$ 51'43		direct	5611 Apr 11 03:10	0° $\mathcal{Y}$ 34'30	
max. Earth dist.	5610 Jun 20 18:42	29° $\mathbb{I}$ 16'26	1.32881 AU	desc. node	5611 Apr 18 21:30	3° $\mathcal{Y}$ 36'17	
	5610 Jun 21 02:58	0° $\mathcal{E}$		morning max el	5611 Apr 24 09:12	8° $\mathcal{Y}$ 23'01	26°56'59
asc. node	5610 Jun 22 21:30	3° $\mathcal{E}$ 46'21			5611 May 11 05:04	0° $\mathcal{B}$	
					5611 May 28 22:34	0° $\mathbb{I}$	
superior conj	5610 Jun 23 13:23	5° $\mathcal{E}$ 11'32	0°06'52	morning set	5611 May 30 03:08	2° $\mathbb{I}$ 16'00	
minimum elong	5610 Jun 23 13:03	5° $\mathcal{E}$ 09'42	0°06'46	max. Earth dist.	5611 Jun 03 12:23	10° $\mathbb{I}$ 53'54	1.34062 AU
behind sun begin	5610 Jun 23 08:11	4° $\mathcal{E}$ 43'35					
behind sun end	5610 Jun 23 17:55	5° $\mathcal{E}$ 35'52		superior conj	5611 Jun 07 14:55	19° $\mathbb{I}$ 20'18	-0°22'02
evening rise	5610 Jun 30 14:13	20° $\mathcal{E}$ 20'56		minimum elong	5611 Jun 07 16:06	19° $\mathbb{I}$ 26'28	0°21'48
	5610 Jul 05 06:52	0° $\mathcal{Q}$		asc. node	5611 Jun 09 18:33	23° $\mathbb{I}$ 51'44	
evening max el	5610 Jul 23 06:15	27° $\mathcal{Q}$ 01'52	23°03'58		5611 Jun 12 16:05	0° $\mathcal{E}$	
	5610 Jul 26 17:27	0° $\mathbb{M}$		evening rise	5611 Jun 15 00:31	4° $\mathcal{E}$ 57'09	
desc. node	5610 Jul 28 23:44	1° $\mathbb{M}$ 29'23			5611 Jun 28 18:57	0° $\mathcal{Q}$	
retrograde	5610 Aug 05 15:25	3° $\mathbb{M}$ 43'02		evening max el	5611 Jul 05 00:02	7° $\mathcal{Q}$ 30'12	21°29'42

desc. node	5611 Jul 15 20:45	13°♎29'23		retrograde	5612 Jun 26 20:09	23°♏44'31	
retrograde	5611 Jul 17 06:10	13°♎33'59		evening set	5612 Jun 28 18:18	23°♏35'00	
evening set	5611 Jul 19 17:15	13°♎20'07		desc. node	5612 Jul 01 17:47	22°♏45'51	
inferior conj	5611 Jul 29 01:14	9°♎20'15	-3°42'10	inferior conj	5612 Jul 07 20:32	19°♏36'15	-1°49'41
minimum elong	5611 Jul 28 16:20	9°♎32'42	3°39'36	minimum elong	5612 Jul 07 15:24	19°♏43'51	1°47'49
min. Earth dist.	5611 Jul 29 00:57	9°♎20'39	0.54793 AU	min. Earth dist.	5612 Jul 09 12:53	18°♏36'21	0.55072 AU
morning rise	5611 Aug 06 16:27	5°♎27'33		morning rise	5612 Jul 16 11:03	15°♏20'48	
direct	5611 Aug 10 03:19	5°♎01'44		direct	5612 Jul 20 14:26	14°♏43'31	
morning max el	5611 Aug 22 14:01	10°♎53'54	22°11'00	morning max el	5612 Aug 03 05:16	21°♏23'24	23°54'44
	5611 Sep 05 09:39	0°♎			5612 Aug 10 16:19	0°♎	
asc. node	5611 Sep 05 17:48	0°♎36'52		asc. node	5612 Aug 22 14:50	19°♎53'35	
morning set	5611 Sep 13 01:43	15°♎06'06		morning set	5612 Aug 27 13:19	29°♎58'29	
					5612 Aug 27 13:37	0°♎	
superior conj	5611 Sep 20 05:13	0°♏16'20	1°42'21	superior conj	5612 Sep 03 12:27	15°♎01'13	1°36'03
minimum elong	5611 Sep 20 04:35	0°♏13'00	1°42'20	minimum elong	5612 Sep 03 10:49	14°♎52'24	1°35'56
	5611 Sep 20 02:08	0°♏		max. Earth dist.	5612 Sep 05 17:50	19°♎48'21	1.33149 AU
max. Earth dist.	5611 Sep 23 18:21	7°♏39'26	1.34405 AU	evening rise	5612 Sep 10 23:20	0°♏40'34	
evening rise	5611 Sep 28 06:57	16°♏41'07			5612 Sep 10 15:17	0°♏	
	5611 Oct 05 12:12	0°♎			5612 Sep 27 11:48	0°♎	
desc. node	5611 Oct 11 19:59	10°♎33'43		desc. node	5612 Sep 27 17:02	0°♎20'01	
	5611 Oct 25 12:40	0°♎		evening max el	5612 Oct 14 17:39	21°♎50'05	27°25'35
evening max el	5611 Nov 02 05:56	8°♎32'18	27°00'14	retrograde	5612 Oct 28 08:19	29°♎08'19	
retrograde	5611 Nov 15 11:41	15°♎50'10		evening set	5612 Nov 04 10:10	26°♎31'18	
evening set	5611 Nov 22 05:31	13°♎10'44		min. Earth dist.	5612 Nov 08 03:40	23°♎12'34	0.63924 AU
min. Earth dist.	5611 Nov 26 04:18	9°♎18'53	0.65473 AU	inferior conj	5612 Nov 10 16:09	20°♎36'15	-2°35'27
inferior conj	5611 Nov 28 04:56	7°♎00'15	-1°31'13	minimum elong	5612 Nov 10 20:44	20°♎24'23	2°33'43
minimum elong	5611 Nov 28 07:34	6°♎52'46	1°30'07	morning rise	5612 Nov 17 08:49	15°♎15'13	
asc. node	5611 Dec 02 17:03	2°♎29'39		asc. node	5612 Nov 18 14:05	14°♎52'47	
morning rise	5611 Dec 04 10:38	1°♎24'05		direct	5612 Nov 19 20:05	14°♎44'56	
direct	5611 Dec 07 04:20	0°♎43'27		morning max el	5612 Nov 26 08:50	18°♎09'43	17°51'34
morning max el	5611 Dec 13 15:57	4°♎11'46	18°09'39		5612 Dec 04 23:56	0°♎	
	5611 Dec 31 03:45	0°♎		morning set	5612 Dec 13 02:35	13°♎41'42	
morning set	5612 Jan 01 04:50	1°♎42'32			5612 Dec 22 18:21	0°♎	
desc. node	5612 Jan 07 19:13	12°♎25'35		desc. node	5612 Dec 24 16:16	3°♎08'55	
superior conj	5612 Jan 16 00:02	25°♎29'42	-0°55'07	superior conj	5612 Dec 25 21:20	5°♎07'38	-0°08'32
minimum elong	5612 Jan 15 17:19	25°♎03'09	0°54'13	minimum elong	5612 Dec 25 20:23	5°♎03'45	0°08'22
max. Earth dist.	5612 Jan 18 16:21	29°♎42'44	1.45273 AU	behind sun begin	5612 Dec 25 11:50	4°♎28'55	
	5612 Jan 18 20:45	0°♎		behind sun end	5612 Dec 26 04:55	5°♎38'31	
evening rise	5612 Feb 01 06:09	20°♎52'55		max. Earth dist.	5612 Dec 31 10:35	14°♎03'30	1.44551 AU
	5612 Feb 07 03:14	0°♎		evening rise	5613 Jan 10 17:32	0°♎07'08	
greatest brilliancy	5612 Feb 13 16:51	10°♎03'22	-0.7m		5613 Jan 10 15:41	0°♎	
evening max el	5612 Feb 25 16:44	26°♎08'19	19°29'50		5613 Jan 30 21:40	0°♎	
asc. node	5612 Feb 28 16:20	28°♎43'42		evening max el	5613 Feb 07 19:06	9°♎42'51	20°29'55
	5612 Mar 02 03:53	0°♎		asc. node	5613 Feb 14 13:22	14°♎17'48	
retrograde	5612 Mar 03 22:08	0°♎17'05		retrograde	5613 Feb 15 20:28	14°♎26'45	
	5612 Mar 05 15:16	30°♎		evening set	5613 Feb 19 18:31	12°♎58'15	
evening set	5612 Mar 07 11:26	29°♎03'06		inferior conj	5613 Feb 25 02:59	6°♎50'45	2°56'59
inferior conj	5612 Mar 12 22:19	23°♎08'27	3°19'34	minimum elong	5613 Feb 25 00:45	6°♎58'20	2°56'30
minimum elong	5612 Mar 12 20:43	23°♎13'40	3°19'21	min. Earth dist.	5613 Feb 25 18:40	5°♎57'09	0.67585 AU
min. Earth dist.	5612 Mar 14 03:42	21°♎32'00	0.66693 AU	morning rise	5613 Mar 02 06:47	0°♎36'21	
morning rise	5612 Mar 18 05:43	16°♎53'05			5613 Mar 02 23:53	30°♎	
direct	5612 Mar 24 09:34	14°♎08'38		direct	5613 Mar 07 21:24	28°♎06'15	
desc. node	5612 Apr 04 18:31	20°♎32'06		morning max el	5613 Mar 13 09:37	0°♎	
morning max el	5612 Apr 05 18:59	21°♎32'36	25°47'33	desc. node	5613 Mar 19 03:40	4°♎50'29	24°23'02
	5612 Apr 13 03:32	0°♎			5613 Mar 22 15:33	8°♎38'19	
	5612 May 03 10:29	0°♎		morning set	5613 Apr 07 12:24	0°♎	
morning set	5612 May 11 23:18	14°♎56'04			5613 Apr 24 00:11	26°♎37'53	
max. Earth dist.	5612 May 15 18:36	22°♎03'32	1.35704 AU		5613 Apr 25 22:06	0°♎	
	5612 May 19 20:15	0°♎		max. Earth dist.	5613 Apr 27 15:47	3°♎06'45	1.37728 AU
superior conj	5612 May 21 08:26	3°♎01'04	-0°52'09	superior conj	5613 May 04 14:42	16°♎05'57	-1°21'31
minimum elong	5612 May 21 11:22	3°♎15'49	0°51'37	minimum elong	5613 May 04 19:13	16°♎27'40	1°20'52
asc. node	5612 May 26 15:35	13°♎50'48			5613 May 11 16:24	0°♎	
evening rise	5612 May 29 07:16	19°♎17'59		evening rise	5613 May 13 08:03	3°♎16'55	
	5612 Jun 03 16:54	0°♎		asc. node	5613 May 13 12:39	3°♎39'42	
evening max el	5612 Jun 16 05:27	18°♎32'33	20°09'47				

	5613 May 29 16:03	0°☿		minimum elong	5614 Apr 17 10:36	28°♄47'16	1°46'41
evening max el	5613 May 29 23:22	0°☿18'12	19°09'14		5614 Apr 18 02:27	0°♄	
retrograde	5613 Jun 07 21:29	4°☿40'14		evening rise	5614 Apr 26 23:41	16°♄45'11	
evening set	5613 Jun 09 21:04	4°☿28'12		asc. node	5614 Apr 30 09:42	23°♄13'02	
inferior conj	5613 Jun 18 06:08	0°☿16'59	0°06'26		5614 May 04 03:29	0°♄	
minimum elong	5613 Jun 18 06:24	0°☿16'31	0°06'18	evening max el	5614 May 13 03:04	12°♄41'43	18°29'08
transit middle	5613 Jun 18 06:24	0°☿16'31	0°06'18	retrograde	5614 May 20 17:37	16°♄27'42	
transit begin	5613 Jun 18 02:54	0°☿22'28		evening set	5614 May 22 23:46	16°♄08'50	
transit end	5613 Jun 18 09:54	0°☿10'35		inferior conj	5614 May 30 12:47	11°♄37'59	1°39'51
desc. node	5613 Jun 18 14:48	0°☿02'15		minimum elong	5614 May 30 15:54	11°♄31'47	1°38'51
	5613 Jun 18 16:08	30°♄♄		min. Earth dist.	5614 Jun 02 22:28	8°♄57'12	0.58133 AU
min. Earth dist.	5613 Jun 21 03:40	28°♄19'51	0.56272 AU	desc. node	5614 Jun 05 11:50	7°♄11'05	
morning rise	5613 Jun 26 12:35	25°♄26'36		morning rise	5614 Jun 07 04:49	6°♄13'30	
direct	5613 Jul 01 13:52	24°♄27'11		direct	5614 Jun 13 03:20	4°♄42'52	
	5613 Jul 13 21:06	0°☿		morning max el	5614 Jun 27 12:33	12°♄23'07	26°54'44
morning max el	5613 Jul 15 18:54	1°☿43'46	25°34'38		5614 Jul 11 08:09	0°☿	
	5613 Aug 04 14:58	0°♄		morning set	5614 Jul 27 10:34	29°☿32'38	
asc. node	5613 Aug 09 11:54	9°♄31'30		asc. node	5614 Jul 27 08:58	29°☿24'14	
morning set	5613 Aug 12 00:49	14°♄48'59			5614 Jul 27 15:45	0°♄	
superior conj	5613 Aug 18 22:56	29°♄53'46	1°24'19	superior conj	5614 Aug 03 10:44	14°♄47'35	1°07'46
minimum elong	5613 Aug 18 20:45	29°♄41'45	1°24'02	minimum elong	5614 Aug 03 08:28	14°♄35'00	1°07'22
	5613 Aug 19 00:04	0°♄		max. Earth dist.	5614 Aug 03 11:11	14°♄50'05	1.31926 AU
max. Earth dist.	5613 Aug 20 00:28	2°♄13'59	1.32325 AU	evening rise	5614 Aug 10 06:55	29°♄41'44	
evening rise	5613 Aug 26 00:14	15°♄03'32			5614 Aug 10 10:23	0°♄	
	5613 Sep 02 15:33	0°♄			5614 Aug 26 20:33	0°♄	
desc. node	5613 Sep 14 14:04	19°♄31'43		desc. node	5614 Sep 01 11:06	7°♄54'51	
	5613 Sep 22 16:21	0°♄		evening max el	5614 Sep 09 05:27	16°♄41'01	26°42'02
evening max el	5613 Sep 27 02:25	4°♄37'07	27°20'34	retrograde	5614 Sep 23 03:27	23°♄49'44	
retrograde	5613 Oct 10 22:01	11°♄50'53		evening set	5614 Sep 29 23:31	21°♄51'21	
evening set	5613 Oct 18 01:38	9°♄27'19		min. Earth dist.	5614 Oct 03 19:19	19°♄15'17	0.60044 AU
min. Earth dist.	5613 Oct 21 16:52	6°♄35'41	0.62081 AU	inferior conj	5614 Oct 07 00:42	16°♄39'44	-4°34'47
inferior conj	5613 Oct 24 15:53	3°♄52'22	-3°38'46	minimum elong	5614 Oct 07 06:57	16°♄27'09	4°33'26
minimum elong	5613 Oct 24 22:01	3°♄38'14	3°36'50	morning rise	5614 Oct 14 16:27	11°♄58'43	
	5613 Oct 29 10:24	30°♄♄		direct	5614 Oct 17 00:02	11°♄38'46	
morning rise	5613 Oct 31 20:16	28°♄49'43		asc. node	5614 Oct 23 08:12	14°♄16'35	
direct	5613 Nov 03 04:00	28°♄26'08		morning max el	5614 Oct 24 12:57	15°♄21'08	18°10'35
asc. node	5613 Nov 05 11:09	28°♄50'01			5614 Nov 03 16:20	0°♄	
	5613 Nov 07 17:34	0°♄		morning set	5614 Nov 09 07:53	10°♄25'35	
morning max el	5613 Nov 10 00:55	1°♄55'33	17°51'26				
morning set	5613 Nov 25 21:37	26°♄41'54		superior conj	5614 Nov 18 20:37	28°♄07'16	1°05'09
	5613 Nov 27 17:42	0°♄		minimum elong	5614 Nov 19 00:29	28°♄24'40	1°04'40
					5614 Nov 19 21:44	0°♄	
superior conj	5613 Dec 06 20:27	16°♄00'54	0°33'08	max. Earth dist.	5614 Nov 26 12:08	11°♄28'30	1.41361 AU
minimum elong	5613 Dec 06 23:20	16°♄13'13	0°32'44	desc. node	5614 Nov 28 10:19	14°♄42'01	
desc. node	5613 Dec 11 13:17	23°♄55'23		evening rise	5614 Dec 01 12:22	19°♄45'59	
max. Earth dist.	5613 Dec 14 01:37	28°♄03'02	1.43195 AU		5614 Dec 07 23:41	0°♄	
	5613 Dec 15 06:27	0°♄			5614 Dec 29 05:20	0°♄	
evening rise	5613 Dec 21 06:55	9°♄33'27		evening max el	5615 Jan 04 08:27	6°♄57'03	23°00'01
	5614 Jan 03 20:12	0°♄		retrograde	5615 Jan 14 13:08	12°♄59'43	
evening max el	5614 Jan 21 16:04	23°♄18'40	21°41'33	evening set	5615 Jan 19 09:20	11°♄00'11	
retrograde	5614 Jan 30 17:58	28°♄41'58		asc. node	5615 Jan 19 07:27	11°♄04'07	
asc. node	5614 Feb 01 10:25	28°♄26'53		inferior conj	5615 Jan 24 18:32	4°♄35'59	1°44'49
evening set	5614 Feb 04 02:20	26°♄58'11		minimum elong	5615 Jan 24 16:27	4°♄43'11	1°44'06
inferior conj	5614 Feb 09 10:22	20°♄40'38	2°24'57	min. Earth dist.	5615 Jan 24 10:14	5°♄04'39	0.68151 AU
minimum elong	5614 Feb 09 07:59	20°♄48'55	2°24'16		5615 Jan 28 09:02	30°♄♄	
min. Earth dist.	5614 Feb 09 13:35	20°♄29'25	0.68063 AU	morning rise	5615 Jan 29 23:28	28°♄28'20	
morning rise	5614 Feb 14 13:26	14°♄28'52		direct	5615 Feb 03 09:15	26°♄34'33	
direct	5614 Feb 19 13:38	12°♄19'12			5615 Feb 10 05:42	0°♄	
morning max el	5614 Mar 01 13:12	18°♄13'48	22°53'35	morning max el	5615 Feb 12 03:21	1°♄46'38	21°28'11
desc. node	5614 Mar 09 12:33	27°♄34'24		desc. node	5615 Feb 24 09:34	17°♄06'41	
	5614 Mar 11 08:49	0°♄			5615 Mar 05 06:18	0°♄	
	5614 Mar 31 15:24	0°♄		morning set	5615 Mar 15 18:40	16°♄11'36	
morning set	5614 Apr 04 23:40	7°♄04'45		max. Earth dist.	5615 Mar 22 12:18	27°♄04'33	1.42040 AU
max. Earth dist.	5614 Apr 09 11:24	14°♄39'02	1.39935 AU		5615 Mar 24 06:37	0°♄	
superior conj	5614 Apr 17 05:29	28°♄23'49	-1°47'11	superior conj	5615 Mar 29 23:51	9°♄43'10	-2°04'50



minimum elong	5615 Mar 30 03:19	9° $\Upsilon$ 58'09	2°04'42		5616 Mar 15 18:18	0° $\Upsilon$	
evening rise	5615 Apr 10 02:26	29° $\Upsilon$ 33'58		evening rise	5616 Mar 22 11:53	11° $\Upsilon$ 33'54	
	5615 Apr 10 08:08	0° $\mathcal{B}$			5616 Apr 02 09:42	0° $\mathcal{B}$	
asc. node	5615 Apr 17 06:43	12° $\mathcal{B}$ 25'12		asc. node	5616 Apr 03 03:44	1° $\mathcal{B}$ 09'14	
evening max el	5615 Apr 26 12:56	25° $\mathcal{B}$ 33'59	18°09'04	evening max el	5616 Apr 09 01:35	8° $\mathcal{B}$ 46'09	18°08'24
retrograde	5615 May 03 07:57	29° $\mathcal{B}$ 00'31		retrograde	5616 Apr 15 12:07	12° $\mathcal{B}$ 08'21	
evening set	5615 May 05 21:01	28° $\mathcal{B}$ 31'59		evening set	5616 Apr 18 07:39	11° $\mathcal{B}$ 28'24	
inferior conj	5615 May 12 16:19	23° $\mathcal{B}$ 40'23	2°42'37	inferior conj	5616 Apr 24 13:14	6° $\mathcal{B}$ 17'16	3°17'43
minimum elong	5615 May 12 19:32	23° $\mathcal{B}$ 32'56	2°41'52	minimum elong	5616 Apr 24 15:09	6° $\mathcal{B}$ 12'12	3°17'27
min. Earth dist.	5615 May 15 23:43	20° $\mathcal{B}$ 38'14	0.60308 AU	min. Earth dist.	5616 Apr 27 09:39	3° $\mathcal{B}$ 17'59	0.62478 AU
morning rise	5615 May 19 15:38	17° $\mathcal{B}$ 50'35		morning rise	5616 Apr 30 21:10	0° $\mathcal{B}$ 12'27	
desc. node	5615 May 23 08:51	16° $\mathcal{B}$ 09'34			5616 May 01 04:02	30° $\mathcal{R}$ $\Upsilon$	
direct	5615 May 26 05:02	15° $\mathcal{B}$ 46'23		direct	5616 May 07 17:01	27° $\Upsilon$ 40'44	
morning max el	5615 Jun 09 12:48	23° $\mathcal{B}$ 41'03	27°42'28	desc. node	5616 May 09 05:51	27° $\Upsilon$ 47'50	
	5615 Jun 15 04:59	0° $\mathcal{I}$			5616 May 14 19:55	0° $\mathcal{B}$	
	5615 Jul 04 13:21	0° $\mathcal{E}$		morning max el	5616 May 21 18:55	5° $\mathcal{B}$ 41'54	27°52'26
morning set	5615 Jul 11 16:45	14° $\mathcal{E}$ 03'32			5616 Jun 09 02:54	0° $\mathcal{I}$	
asc. node	5615 Jul 14 05:59	19° $\mathcal{E}$ 26'11		morning set	5616 Jun 24 17:22	28° $\mathcal{I}$ 15'28	
max. Earth dist.	5615 Jul 17 22:04	27° $\mathcal{E}$ 24'30	1.31951 AU		5616 Jun 25 13:53	0° $\mathcal{E}$	
				max. Earth dist.	5616 Jun 30 05:10	9° $\mathcal{E}$ 44'39	1.32406 AU
superior conj	5615 Jul 18 22:03	29° $\mathcal{E}$ 36'28	0°46'58	asc. node	5616 Jun 30 03:00	9° $\mathcal{E}$ 33'01	
minimum elong	5615 Jul 18 20:10	29° $\mathcal{E}$ 26'04	0°46'34				
	5615 Jul 19 02:19	0° $\mathcal{Q}$		superior conj	5616 Jul 02 07:09	14° $\mathcal{E}$ 14'58	0°22'26
evening rise	5615 Jul 25 17:06	14° $\mathcal{Q}$ 27'26		minimum elong	5616 Jul 02 06:07	14° $\mathcal{E}$ 09'20	0°22'11
	5615 Aug 02 10:58	0° $\mathcal{M}$		evening rise	5616 Jul 09 04:48	29° $\mathcal{E}$ 14'25	
desc. node	5615 Aug 19 08:08	25° $\mathcal{M}$ 09'03			5616 Jul 09 13:22	0° $\mathcal{Q}$	
evening max el	5615 Aug 22 00:34	27° $\mathcal{M}$ 54'14	25°32'03		5616 Jul 26 08:40	0° $\mathcal{M}$	
	5615 Aug 24 09:17	0° $\mathcal{L}$		evening max el	5616 Aug 02 13:33	8° $\mathcal{M}$ 26'58	24°00'28
retrograde	5615 Sep 04 23:06	4° $\mathcal{L}$ 58'48		desc. node	5616 Aug 05 05:08	10° $\mathcal{M}$ 47'21	
evening set	5615 Sep 10 22:52	3° $\mathcal{L}$ 35'17		retrograde	5616 Aug 16 07:27	15° $\mathcal{M}$ 21'41	
min. Earth dist.	5615 Sep 15 12:25	0° $\mathcal{L}$ 57'19	0.57996 AU	evening set	5616 Aug 20 21:58	14° $\mathcal{M}$ 34'49	
	5615 Sep 16 21:43	30° $\mathcal{R}$ $\mathcal{M}$		min. Earth dist.	5616 Aug 27 00:01	11° $\mathcal{M}$ 36'12	0.56228 AU
inferior conj	5615 Sep 18 15:03	28° $\mathcal{M}$ 47'12	-5°12'45	inferior conj	5616 Aug 29 09:08	10° $\mathcal{M}$ 08'35	-5°16'54
minimum elong	5615 Sep 18 18:30	28° $\mathcal{M}$ 41'09	5°12'27	minimum elong	5616 Aug 29 06:31	10° $\mathcal{M}$ 12'37	5°16'45
morning rise	5615 Sep 26 16:26	24° $\mathcal{M}$ 29'35		morning rise	5616 Sep 06 17:32	6° $\mathcal{M}$ 10'48	
direct	5615 Sep 29 03:34	24° $\mathcal{M}$ 10'52		direct	5616 Sep 09 11:31	5° $\mathcal{M}$ 51'19	
morning max el	5615 Oct 07 17:25	28° $\mathcal{M}$ 15'59	18°50'32	morning max el	5616 Sep 19 11:16	10° $\mathcal{M}$ 30'56	19°52'21
	5615 Oct 09 09:27	0° $\mathcal{L}$		asc. node	5616 Sep 26 02:15	18° $\mathcal{M}$ 38'20	
asc. node	5615 Oct 10 05:13	0° $\mathcal{L}$ 57'40			5616 Oct 02 16:54	0° $\mathcal{L}$	
morning set	5615 Oct 24 04:37	24° $\mathcal{L}$ 38'13		morning set	5616 Oct 07 08:26	9° $\mathcal{L}$ 10'15	
	5615 Oct 26 22:08	0° $\mathcal{M}$					
				superior conj	5616 Oct 15 03:29	24° $\mathcal{L}$ 58'05	1°39'02
superior conj	5615 Nov 01 16:42	11° $\mathcal{M}$ 11'21	1°26'48	minimum elong	5616 Oct 15 05:06	25° $\mathcal{L}$ 06'08	1°38'58
minimum elong	5615 Nov 01 19:47	11° $\mathcal{M}$ 25'58	1°26'32		5616 Oct 17 16:48	0° $\mathcal{M}$	
max. Earth dist.	5615 Nov 08 18:05	24° $\mathcal{M}$ 09'51	1.39268 AU	max. Earth dist.	5616 Oct 20 23:08	6° $\mathcal{M}$ 14'33	1.37179 AU
	5615 Nov 12 02:23	0° $\mathcal{X}$		evening rise	5616 Oct 24 17:46	13° $\mathcal{M}$ 10'58	
evening rise	5615 Nov 12 16:07	0° $\mathcal{X}$ 58'42		desc. node	5616 Nov 01 04:23	25° $\mathcal{M}$ 58'56	
desc. node	5615 Nov 15 07:21	5° $\mathcal{X}$ 24'36			5616 Nov 03 15:52	0° $\mathcal{X}$	
	5615 Dec 01 07:36	0° $\mathcal{Z}$			5616 Nov 25 07:18	0° $\mathcal{Z}$	
evening max el	5615 Dec 17 21:54	20° $\mathcal{Z}$ 38'26	24°19'34	evening max el	5616 Nov 29 10:27	4° $\mathcal{Z}$ 22'26	25°33'28
retrograde	5615 Dec 29 04:50	27° $\mathcal{Z}$ 15'27		retrograde	5616 Dec 11 16:05	11° $\mathcal{Z}$ 24'04	
evening set	5616 Jan 03 13:58	25° $\mathcal{Z}$ 00'50		evening set	5616 Dec 17 14:34	8° $\mathcal{Z}$ 56'28	
asc. node	5616 Jan 06 04:28	22° $\mathcal{Z}$ 18'51		min. Earth dist.	5616 Dec 21 23:36	4° $\mathcal{Z}$ 09'02	0.67209 AU
min. Earth dist.	5616 Jan 08 06:19	19° $\mathcal{Z}$ 38'59	0.67861 AU	inferior conj	5616 Dec 23 05:57	2° $\mathcal{Z}$ 31'48	0°03'48
inferior conj	5616 Jan 09 01:39	18° $\mathcal{Z}$ 34'01	0°57'30	minimum elong	5616 Dec 23 05:51	2° $\mathcal{Z}$ 32'07	0°03'46
minimum elong	5616 Jan 09 00:20	18° $\mathcal{Z}$ 38'27	0°56'59	transit middle	5616 Dec 23 05:51	2° $\mathcal{Z}$ 32'07	0°03'46
morning rise	5616 Jan 14 10:49	12° $\mathcal{Z}$ 32'07		transit begin	5616 Dec 23 03:08	2° $\mathcal{Z}$ 40'53	
direct	5616 Jan 18 07:07	11° $\mathcal{Z}$ 07'44		transit end	5616 Dec 23 08:35	2° $\mathcal{Z}$ 23'23	
morning max el	5616 Jan 26 00:53	15° $\mathcal{Z}$ 31'28	20°13'15	asc. node	5616 Dec 23 01:29	2° $\mathcal{Z}$ 46'11	
	5616 Feb 06 10:05	0° $\mathcal{A}$			5616 Dec 25 06:54	30° $\mathcal{R}$ $\mathcal{X}$	
desc. node	5616 Feb 11 06:35	7° $\mathcal{A}$ 05'11		morning rise	5616 Dec 28 21:32	26° $\mathcal{X}$ 37'41	
morning set	5616 Feb 22 17:13	24° $\mathcal{A}$ 26'39		direct	5617 Jan 01 05:55	25° $\mathcal{X}$ 33'06	
	5616 Feb 26 07:01	0° $\mathcal{H}$		morning max el	5617 Jan 08 06:17	29° $\mathcal{X}$ 26'50	19°12'30
max. Earth dist.	5616 Mar 03 20:28	10° $\mathcal{H}$ 22'39	1.43766 AU		5617 Jan 08 19:17	0° $\mathcal{Z}$	
				greatest brilliancy	5617 Jan 21 19:49	17° $\mathcal{Z}$ 41'14	-0.7m
superior conj	5616 Mar 09 17:33	19° $\mathcal{H}$ 55'23	-2°08'56	desc. node	5617 Jan 28 03:37	27° $\mathcal{Z}$ 22'38	
minimum elong	5616 Mar 09 15:59	19° $\mathcal{H}$ 48'56	2°08'54		5617 Jan 29 20:19	0° $\mathcal{A}$	

morning set	5617 Jan 31 18:07	2° $\approx$ 57'23		5618 Jan 22 16:15	0° $\approx$	
max. Earth dist.	5617 Feb 14 10:52	24° $\approx$ 20'29	1.44916 AU			
				superior conj	5618 Jan 27 14:40	7° $\approx$ 44'58 -1°20'31
superior conj	5617 Feb 17 10:54	29° $\approx$ 05'07	-1°54'16	minimum elong	5618 Jan 27 05:36	7° $\approx$ 09'23 1°19'29
minimum elong	5617 Feb 17 03:06	28° $\approx$ 34'14	1°53'44	max. Earth dist.	5618 Jan 28 05:27	8° $\approx$ 42'53 1.45362 AU
	5617 Feb 18 00:44	0° $\text{H}$			5618 Feb 10 18:44	0° $\text{H}$
evening rise	5617 Mar 03 23:48	22° $\text{H}$ 37'08		evening rise	5618 Feb 12 12:30	2° $\text{H}$ 44'54
	5617 Mar 08 11:00	0° $\text{Y}$		greatest brilliancy	5618 Feb 22 04:55	18° $\text{H}$ 01'05 -0.8m
asc. node	5617 Mar 21 00:45	19° $\text{Y}$ 15'50			5618 Mar 02 06:51	0° $\text{Y}$
evening max el	5617 Mar 23 14:05	22° $\text{Y}$ 10'19	18°26'22	evening max el	5618 Mar 07 00:02	5° $\text{Y}$ 41'46 19°01'58
retrograde	5617 Mar 30 01:33	25° $\text{Y}$ 41'23		asc. node	5618 Mar 07 21:47	6° $\text{Y}$ 34'32
evening set	5617 Apr 02 03:31	24° $\text{Y}$ 48'51		retrograde	5618 Mar 13 20:40	9° $\text{Y}$ 33'28
inferior conj	5617 Apr 07 23:19	19° $\text{Y}$ 19'38	3°30'58	evening set	5618 Mar 17 05:37	8° $\text{Y}$ 27'27
minimum elong	5617 Apr 07 23:39	19° $\text{Y}$ 18'39	3°30'57	inferior conj	5618 Mar 22 18:57	2° $\text{Y}$ 41'37 3°27'32
min. Earth dist.	5617 Apr 10 04:51	16° $\text{Y}$ 43'24	0.64420 AU	minimum elong	5618 Mar 22 17:57	2° $\text{Y}$ 44'49 3°27'27
morning rise	5617 Apr 13 18:58	13° $\text{Y}$ 07'31		min. Earth dist.	5618 Mar 24 08:55	0° $\text{Y}$ 41'28 0.65993 AU
direct	5617 Apr 20 13:18	10° $\text{Y}$ 20'24			5618 Mar 24 22:21	30° $\text{R}$ $\text{H}$
desc. node	5617 Apr 26 02:52	11° $\text{Y}$ 54'32		morning rise	5618 Mar 28 05:53	26° $\text{H}$ 26'51
morning max el	5617 May 04 04:13	18° $\text{Y}$ 17'32	27°26'08	direct	5618 Apr 03 16:23	23° $\text{H}$ 37'58
	5617 May 14 00:28	0° $\text{B}$		desc. node	5618 Apr 12 23:54	27° $\text{H}$ 58'11
	5617 Jun 02 00:54	0° $\text{II}$			5618 Apr 15 06:35	0° $\text{Y}$
morning set	5617 Jun 08 09:44	11° $\text{II}$ 59'26		morning max el	5618 Apr 16 14:11	1° $\text{Y}$ 17'33 26°29'51
max. Earth dist.	5617 Jun 13 04:21	21° $\text{II}$ 37'35	1.33316 AU		5618 May 08 02:08	0° $\text{B}$
				morning set	5618 May 22 14:30	25° $\text{B}$ 06'01
superior conj	5617 Jun 16 12:04	28° $\text{II}$ 36'09	-0°05'10		5618 May 25 04:00	0° $\text{II}$
minimum elong	5617 Jun 16 12:20	28° $\text{II}$ 37'34	0°05'08	max. Earth dist.	5618 May 26 16:51	3° $\text{II}$ 00'17 1.34707 AU
behind sun begin	5617 Jun 16 07:07	28° $\text{II}$ 09'55				
behind sun end	5617 Jun 16 17:32	29° $\text{II}$ 05'15		superior conj	5618 May 31 10:32	12° $\text{II}$ 33'54 -0°34'46
asc. node	5617 Jun 17 00:01	29° $\text{II}$ 39'48		minimum elong	5618 May 31 12:27	12° $\text{II}$ 43'44 0°34'24
	5617 Jun 17 03:48	0° $\text{S}$		asc. node	5618 Jun 03 21:04	19° $\text{II}$ 42'52
evening rise	5617 Jun 23 16:06	13° $\text{S}$ 55'41		evening rise	5618 Jun 08 01:09	28° $\text{II}$ 25'49
	5617 Jul 01 18:51	0° $\Omega$			5618 Jun 08 19:23	0° $\text{S}$
evening max el	5617 Jul 15 03:15	18° $\Omega$ 47'12	22°22'48	evening max el	5618 Jun 27 01:38	29° $\text{S}$ 27'46 20°53'34
desc. node	5617 Jul 23 02:08	24° $\Omega$ 15'54			5618 Jun 27 15:05	0° $\Omega$
retrograde	5617 Jul 28 03:19	25° $\Omega$ 14'56		retrograde	5618 Jul 08 15:36	5° $\Omega$ 09'39
evening set	5617 Jul 31 05:46	24° $\Omega$ 53'43		desc. node	5618 Jul 09 23:10	5° $\Omega$ 05'30
min. Earth dist.	5617 Aug 08 09:58	21° $\Omega$ 20'33	0.55070 AU	evening set	5618 Jul 10 19:08	4° $\Omega$ 58'41
inferior conj	5617 Aug 09 09:41	20° $\Omega$ 47'00	-4°31'43	inferior conj	5618 Jul 20 02:37	1° $\Omega$ 01'36 -2°57'09
minimum elong	5617 Aug 09 01:27	20° $\Omega$ 58'41	4°29'57	minimum elong	5618 Jul 19 18:43	1° $\Omega$ 12'47 2°54'33
morning rise	5617 Aug 17 22:58	16° $\Omega$ 57'19		min. Earth dist.	5618 Jul 20 20:29	0° $\Omega$ 36'18 0.54794 AU
direct	5617 Aug 21 02:43	16° $\Omega$ 34'46			5618 Jul 21 22:22	30° $\text{R}$ $\text{S}$
morning max el	5617 Sep 01 16:48	21° $\Omega$ 59'24	21°15'21	morning rise	5618 Jul 28 18:17	27° $\text{S}$ 01'35
	5617 Sep 08 11:27	0° $\text{M}$		direct	5618 Aug 01 11:44	26° $\text{S}$ 31'45
asc. node	5617 Sep 12 23:17	7° $\text{M}$ 04'58			5618 Aug 11 03:26	0° $\Omega$
morning set	5617 Sep 21 16:51	23° $\text{M}$ 54'56		morning max el	5618 Aug 14 11:37	2° $\Omega$ 44'54 22°54'35
	5617 Sep 24 14:38	0° $\underline{\Omega}$		asc. node	5618 Aug 30 20:20	26° $\Omega$ 06'14
					5618 Sep 01 20:53	0° $\text{M}$
superior conj	5617 Sep 29 00:41	9° $\underline{\Omega}$ 15'03	1°43'10	morning set	5618 Sep 06 03:48	8° $\text{M}$ 46'11
minimum elong	5617 Sep 29 00:48	9° $\underline{\Omega}$ 15'40	1°43'11			
max. Earth dist.	5617 Oct 03 09:18	18° $\underline{\Omega}$ 06'51	1.35319 AU	superior conj	5618 Sep 13 05:00	23° $\text{M}$ 52'05 1°40'24
evening rise	5617 Oct 07 13:43	26° $\underline{\Omega}$ 13'54		minimum elong	5618 Sep 13 03:54	23° $\text{M}$ 46'11 1°40'21
	5617 Oct 09 14:14	0° $\text{M}$		max. Earth dist.	5618 Sep 16 04:05	0° $\underline{\Omega}$ 07'55 1.33822 AU
desc. node	5617 Oct 19 01:24	16° $\text{M}$ 20'16			5618 Sep 16 02:34	0° $\underline{\Omega}$
	5617 Oct 28 01:46	0° $\text{J}$		evening rise	5618 Sep 20 23:44	9° $\underline{\Omega}$ 55'49
evening max el	5617 Nov 11 23:21	18° $\text{J}$ 05'02	26°34'16		5618 Oct 02 00:08	0° $\text{M}$
retrograde	5617 Nov 24 22:07	25° $\text{J}$ 19'38		desc. node	5618 Oct 05 22:26	6° $\text{M}$ 21'55
evening set	5617 Dec 01 09:19	22° $\text{J}$ 43'06			5618 Oct 23 21:15	0° $\text{J}$
min. Earth dist.	5617 Dec 05 11:47	18° $\text{J}$ 30'44	0.66204 AU	evening max el	5618 Oct 25 12:08	1° $\text{J}$ 36'08 27°14'27
inferior conj	5617 Dec 07 05:30	16° $\text{J}$ 25'52	-0°55'17	retrograde	5618 Nov 07 22:07	8° $\text{J}$ 54'05
minimum elong	5617 Dec 07 07:02	16° $\text{J}$ 21'16	0°54'37	evening set	5618 Nov 14 19:55	6° $\text{J}$ 14'52
asc. node	5617 Dec 09 22:31	13° $\text{J}$ 21'22		min. Earth dist.	5618 Nov 18 16:23	2° $\text{J}$ 37'22 0.64857 AU
morning rise	5617 Dec 13 05:30	10° $\text{J}$ 42'05		inferior conj	5618 Nov 20 22:00	0° $\text{J}$ 10'30 -1°58'18
direct	5617 Dec 16 03:58	9° $\text{J}$ 53'45		minimum elong	5618 Nov 21 01:27	0° $\text{J}$ 01'00 1°56'53
morning max el	5617 Dec 22 18:10	13° $\text{J}$ 28'31	18°27'46		5618 Nov 21 01:49	30° $\text{R}$ $\text{M}$
	5618 Jan 03 18:32	0° $\text{B}$		asc. node	5618 Nov 26 19:35	24° $\text{M}$ 55'42
morning set	5618 Jan 11 19:07	12° $\text{B}$ 45'04		morning rise	5618 Nov 27 08:11	24° $\text{M}$ 40'07
desc. node	5618 Jan 15 00:39	17° $\text{B}$ 53'51		direct	5618 Nov 29 22:55	24° $\text{M}$ 04'12

morning max el	5618 Dec 06 10:02	27° $\mathbb{M}$ 29'50	17°59'47		5619 Dec 02 16:13	0° $\mathbb{X}$	
	5618 Dec 08 15:54	0° $\mathbb{X}$		morning set	5619 Dec 06 09:20	6° $\mathbb{X}$ 28'42	
morning set	5618 Dec 24 01:42	24° $\mathbb{X}$ 00'42					
	5618 Dec 27 16:15	0° $\mathbb{Z}$		superior conj	5619 Dec 18 08:19	26° $\mathbb{X}$ 57'05	0°10'09
desc. node	5619 Jan 01 21:40	8° $\mathbb{Z}$ 33'49		minimum elong	5619 Dec 18 09:22	27° $\mathbb{X}$ 01'24	0°10'01
				behind sun begin	5619 Dec 18 01:57	26° $\mathbb{X}$ 30'38	
superior conj	5619 Jan 07 00:23	16° $\mathbb{Z}$ 47'34	-0°35'16	behind sun end	5619 Dec 18 16:46	27° $\mathbb{X}$ 32'07	
minimum elong	5619 Jan 06 20:07	16° $\mathbb{Z}$ 30'30	0°34'38	desc. node	5619 Dec 19 18:43	29° $\mathbb{X}$ 19'13	
max. Earth dist.	5619 Jan 11 01:13	23° $\mathbb{Z}$ 11'22	1.45060 AU		5619 Dec 20 04:38	0° $\mathbb{Z}$	
	5619 Jan 15 09:28	0° $\approx$		max. Earth dist.	5619 Dec 24 18:49	7° $\mathbb{Z}$ 26'58	1.44053 AU
evening rise	5619 Jan 23 05:59	12° $\approx$ 10'33		evening rise	5620 Jan 02 16:18	21° $\mathbb{Z}$ 25'27	
	5619 Feb 03 22:23	0° $\mathbb{H}$			5620 Jan 08 07:08	0° $\approx$	
greatest brilliancy	5619 Feb 06 08:48	3° $\mathbb{H}$ 37'28	-0.6m		5620 Jan 29 15:34	0° $\mathbb{H}$	
evening max el	5619 Feb 18 05:32	19° $\mathbb{H}$ 15'39	19°53'44	evening max el	5620 Feb 01 05:30	2° $\mathbb{H}$ 50'21	20°59'06
asc. node	5619 Feb 22 18:51	22° $\mathbb{H}$ 51'07		retrograde	5620 Feb 09 16:48	7° $\mathbb{H}$ 50'47	
retrograde	5619 Feb 25 18:30	23° $\mathbb{H}$ 38'06		asc. node	5620 Feb 09 15:54	7° $\mathbb{H}$ 50'47	
evening set	5619 Mar 01 11:29	22° $\mathbb{H}$ 17'50		evening set	5620 Feb 13 19:05	6° $\mathbb{H}$ 15'39	
inferior conj	5619 Mar 06 21:03	16° $\mathbb{H}$ 17'24	3°11'11	inferior conj	5620 Feb 19 03:08	0° $\mathbb{H}$ 03'13	2°44'25
minimum elong	5619 Mar 06 19:08	16° $\mathbb{H}$ 23'48	3°10'52	minimum elong	5620 Feb 19 00:47	0° $\mathbb{H}$ 11'19	2°43'51
min. Earth dist.	5619 Mar 07 20:23	14° $\mathbb{H}$ 59'19	0.67133 AU		5620 Feb 19 04:04	30° $\mathbb{R}$ $\approx$	
morning rise	5619 Mar 12 02:36	10° $\mathbb{H}$ 02'29		min. Earth dist.	5620 Feb 19 13:17	29° $\approx$ 28'12	0.67842 AU
direct	5619 Mar 18 01:05	7° $\mathbb{H}$ 23'21		morning rise	5620 Feb 24 06:19	23° $\approx$ 49'49	
morning max el	5619 Mar 29 23:23	14° $\mathbb{H}$ 31'09	25°12'47	direct	5620 Feb 29 14:45	21° $\approx$ 28'13	
desc. node	5619 Mar 30 20:55	15° $\mathbb{H}$ 26'44		morning max el	5620 Mar 11 08:16	27° $\approx$ 51'58	23°44'58
	5619 Apr 11 14:46	0° $\mathbb{Y}$			5620 Mar 13 08:43	0° $\mathbb{H}$	
	5619 Apr 30 22:21	0° $\mathbb{Z}$		desc. node	5620 Mar 16 17:57	3° $\mathbb{H}$ 56'11	
morning set	5619 May 05 03:08	7° $\mathbb{Z}$ 22'48			5620 Apr 04 07:19	0° $\mathbb{Y}$	
max. Earth dist.	5619 May 08 18:53	14° $\mathbb{Z}$ 04'39	1.36532 AU	morning set	5620 Apr 15 17:54	18° $\mathbb{Y}$ 34'25	
				max. Earth dist.	5620 Apr 19 14:46	25° $\mathbb{Y}$ 17'31	1.38660 AU
					5620 Apr 22 05:57	0° $\mathbb{Z}$	
superior conj	5619 May 14 23:43	26° $\mathbb{Z}$ 00'35	-1°04'51				
minimum elong	5619 May 15 03:22	26° $\mathbb{Z}$ 18'40	1°04'14				
	5619 May 16 23:48	0° $\mathbb{II}$		superior conj	5620 Apr 26 23:55	8° $\mathbb{Z}$ 46'26	-1°33'06
asc. node	5619 May 21 18:08	9° $\mathbb{II}$ 38'19		minimum elong	5620 Apr 27 04:52	9° $\mathbb{Z}$ 09'49	1°32'28
evening rise	5619 May 23 05:42	12° $\mathbb{II}$ 38'26		evening rise	5620 May 06 03:02	26° $\mathbb{Z}$ 25'32	
	5619 Jun 01 10:53	0° $\mathbb{E}$		asc. node	5620 May 07 15:10	29° $\mathbb{Z}$ 21'15	
evening max el	5619 Jun 09 12:30	10° $\mathbb{E}$ 48'13	19°41'30		5620 May 07 23:11	0° $\mathbb{II}$	
retrograde	5619 Jun 19 09:07	15° $\mathbb{E}$ 37'56		evening max el	5620 May 22 10:54	22° $\mathbb{II}$ 50'25	18°49'39
evening set	5619 Jun 21 06:54	15° $\mathbb{E}$ 27'53		retrograde	5620 May 30 18:27	26° $\mathbb{II}$ 55'40	
desc. node	5619 Jun 26 20:11	13° $\mathbb{E}$ 21'26		evening set	5620 Jun 01 20:23	26° $\mathbb{II}$ 41'16	
inferior conj	5619 Jun 30 02:36	11° $\mathbb{E}$ 24'47	-0°58'52	inferior conj	5620 Jun 09 20:50	22° $\mathbb{II}$ 21'56	0°49'41
minimum elong	5619 Jun 29 23:55	11° $\mathbb{E}$ 29'00	0°57'52	minimum elong	5620 Jun 09 22:42	22° $\mathbb{II}$ 18'32	0°49'00
min. Earth dist.	5619 Jul 02 09:08	9° $\mathbb{E}$ 59'55	0.55479 AU	desc. node	5620 Jun 12 17:12	20° $\mathbb{II}$ 18'20	
morning rise	5619 Jul 08 14:42	6° $\mathbb{E}$ 55'39		min. Earth dist.	5620 Jun 13 01:28	20° $\mathbb{II}$ 03'56	0.56993 AU
direct	5619 Jul 13 03:03	6° $\mathbb{E}$ 10'30		morning rise	5620 Jun 17 21:39	17° $\mathbb{II}$ 15'59	
morning max el	5619 Jul 27 01:20	13° $\mathbb{E}$ 06'50	24°38'51	direct	5620 Jun 23 08:08	16° $\mathbb{II}$ 04'20	
	5619 Aug 09 03:18	0° $\mathbb{O}$		morning max el	5620 Jul 07 16:22	23° $\mathbb{II}$ 32'49	26°12'12
asc. node	5619 Aug 17 17:23	15° $\mathbb{O}$ 33'10			5620 Jul 13 12:11	0° $\mathbb{E}$	
morning set	5619 Aug 21 15:37	23° $\mathbb{O}$ 39'01			5620 Jul 31 23:49	0° $\mathbb{O}$	
	5619 Aug 24 14:26	0° $\mathbb{P}$		asc. node	5620 Aug 03 14:26	5° $\mathbb{O}$ 17'59	
				morning set	5620 Aug 05 02:32	8° $\mathbb{O}$ 27'14	
superior conj	5619 Aug 28 13:53	8° $\mathbb{P}$ 41'20	1°31'43				
minimum elong	5619 Aug 28 11:58	8° $\mathbb{P}$ 30'52	1°31'31	superior conj	5620 Aug 12 01:08	23° $\mathbb{O}$ 35'03	1°17'52
max. Earth dist.	5619 Aug 30 07:13	12° $\mathbb{P}$ 25'58	1.32743 AU	minimum elong	5620 Aug 11 22:51	23° $\mathbb{O}$ 22'28	1°17'31
evening rise	5619 Sep 04 20:08	24° $\mathbb{P}$ 06'39		max. Earth dist.	5620 Aug 12 15:56	24° $\mathbb{O}$ 56'40	1.32096 AU
	5619 Sep 07 18:48	0° $\mathbb{U}$			5620 Aug 14 23:13	0° $\mathbb{P}$	
desc. node	5619 Sep 22 19:28	25° $\mathbb{U}$ 55'28		evening rise	5620 Aug 18 23:44	8° $\mathbb{P}$ 36'33	
	5619 Sep 25 14:51	0° $\mathbb{M}$			5620 Aug 30 03:59	0° $\mathbb{U}$	
evening max el	5619 Oct 07 22:57	14° $\mathbb{M}$ 42'56	27°27'24	desc. node	5620 Sep 08 16:30	14° $\mathbb{U}$ 48'30	
retrograde	5619 Oct 21 15:41	21° $\mathbb{M}$ 59'01		evening max el	5620 Sep 19 05:17	27° $\mathbb{U}$ 11'40	27°08'15
evening set	5619 Oct 28 19:26	19° $\mathbb{M}$ 26'09			5620 Sep 22 11:32	0° $\mathbb{M}$	
min. Earth dist.	5619 Nov 01 11:26	16° $\mathbb{M}$ 20'14	0.63180 AU	retrograde	5620 Oct 03 02:07	4° $\mathbb{M}$ 23'58	
inferior conj	5619 Nov 04 04:44	13° $\mathbb{M}$ 39'27	-3°02'40	evening set	5620 Oct 10 04:00	2° $\mathbb{M}$ 09'16	
minimum elong	5619 Nov 04 10:05	13° $\mathbb{M}$ 26'17	3°00'46		5620 Oct 13 03:29	30° $\mathbb{R}$ $\mathbb{U}$	
morning rise	5619 Nov 11 02:22	8° $\mathbb{M}$ 25'57		min. Earth dist.	5620 Oct 13 19:49	29° $\mathbb{U}$ 26'20	0.61229 AU
direct	5619 Nov 13 11:52	7° $\mathbb{M}$ 58'48		inferior conj	5620 Oct 16 22:29	26° $\mathbb{U}$ 43'57	-4°03'55
asc. node	5619 Nov 13 16:38	7° $\mathbb{M}$ 59'00		minimum elong	5620 Oct 17 04:55	26° $\mathbb{U}$ 29'55	4°02'09
morning max el	5619 Nov 20 03:00	11° $\mathbb{M}$ 24'08	17°49'15	morning rise	5620 Oct 24 07:53	21° $\mathbb{U}$ 50'33	

direct	5620 Oct 26 15:03	21° $\Omega$ 28'56		direct	5621 Oct 09 04:20	4° $\Omega$ 24'45	
asc. node	5620 Oct 30 13:39	22° $\Omega$ 35'15		morning max el	5621 Oct 17 03:01	8° $\Omega$ 15'57	18°24'59
morning max el	5620 Nov 02 17:49	25° $\Omega$ 02'38	17°57'12	asc. node	5621 Oct 17 10:41	8° $\Omega$ 34'47	
	5620 Nov 06 20:28	0° $\mathbb{M}$			5621 Oct 31 03:18	0° $\mathbb{M}$	
morning set	5620 Nov 18 11:28	19° $\mathbb{M}$ 49'02		morning set	5621 Nov 02 02:37	3° $\mathbb{M}$ 45'46	
	5620 Nov 24 01:20	0° $\mathcal{A}$					
superior conj	5620 Nov 28 18:37	8° $\mathcal{A}$ 23'17	0°47'58	superior conj	5621 Nov 11 03:50	20° $\mathbb{M}$ 55'26	1°15'33
minimum elong	5620 Nov 28 22:13	8° $\mathcal{A}$ 38'59	0°47'29	minimum elong	5621 Nov 11 07:31	21° $\mathbb{M}$ 12'22	1°15'09
desc. node	5620 Dec 05 15:45	20° $\mathcal{A}$ 06'24			5621 Nov 16 04:32	0° $\mathcal{A}$	
max. Earth dist.	5620 Dec 06 07:40	21° $\mathcal{A}$ 12'15	1.42459 AU	max. Earth dist.	5621 Nov 18 15:28	4° $\mathcal{A}$ 16'49	1.40482 AU
	5620 Dec 11 17:58	0° $\mathcal{B}$		desc. node	5621 Nov 22 12:46	10° $\mathcal{A}$ 51'36	
evening rise	5620 Dec 12 11:08	1° $\mathcal{B}$ 08'04		evening rise	5621 Nov 23 01:42	11° $\mathcal{A}$ 45'14	
	5620 Dec 31 19:47	0° $\approx$			5621 Dec 04 15:52	0° $\mathcal{B}$	
evening max el	5621 Jan 14 00:12	16° $\approx$ 26'53	22°14'19	evening max el	5621 Dec 27 15:07	0° $\approx$ 06'40	23°34'11
retrograde	5621 Jan 23 13:37	22° $\approx$ 07'54			5621 Dec 27 12:27	0° $\approx$	
asc. node	5621 Jan 26 12:54	21° $\approx$ 21'34		retrograde	5622 Jan 07 07:28	6° $\approx$ 25'06	
evening set	5621 Jan 28 02:46	20° $\approx$ 17'28		evening set	5622 Jan 12 08:55	4° $\approx$ 19'19	
inferior conj	5621 Feb 02 11:05	13° $\approx$ 56'23	2°08'53	asc. node	5622 Jan 13 09:55	3° $\approx$ 21'18	
minimum elong	5621 Feb 02 08:47	14° $\approx$ 04'25	2°08'09		5622 Jan 16 05:42	30° $\mathcal{R}$ $\mathcal{B}$	
min. Earth dist.	5621 Feb 02 09:19	14° $\approx$ 02'32	0.68145 AU	inferior conj	5622 Jan 17 19:02	27° $\mathcal{B}$ 53'27	1°25'38
morning rise	5621 Feb 07 14:39	7° $\approx$ 45'57		minimum elong	5622 Jan 17 17:13	27° $\mathcal{B}$ 59'40	1°24'57
direct	5621 Feb 12 08:32	5° $\approx$ 46'01		min. Earth dist.	5622 Jan 17 06:05	28° $\mathcal{B}$ 37'46	0.68069 AU
morning max el	5621 Feb 21 19:25	11° $\approx$ 19'37	22°16'15	morning rise	5622 Jan 23 01:27	21° $\mathcal{B}$ 47'46	
desc. node	5621 Mar 03 14:59	23° $\approx$ 09'31		direct	5622 Jan 27 05:23	20° $\mathcal{B}$ 10'32	
	5621 Mar 08 13:28	0° $\mathcal{H}$		morning max el	5622 Feb 04 12:20	24° $\mathcal{B}$ 56'59	20°54'41
morning set	5621 Mar 27 05:20	28° $\mathcal{H}$ 27'31			5622 Feb 08 23:43	0° $\approx$	
	5621 Mar 28 04:03	0° $\mathcal{Y}$		desc. node	5622 Feb 18 12:00	12° $\approx$ 54'07	
max. Earth dist.	5621 Apr 01 11:40	7° $\mathcal{Y}$ 09'44	1.40856 AU		5622 Mar 01 23:29	0° $\mathcal{H}$	
				morning set	5622 Mar 06 13:37	7° $\mathcal{H}$ 05'56	
superior conj	5621 Apr 09 06:38	20° $\mathcal{Y}$ 41'00	-1°55'59	max. Earth dist.	5622 Mar 14 15:15	19° $\mathcal{H}$ 57'21	1.42839 AU
minimum elong	5621 Apr 09 11:25	21° $\mathcal{Y}$ 02'24	1°55'37		5622 Mar 20 16:57	0° $\mathcal{Y}$	
	5621 Apr 14 09:36	0° $\mathcal{B}$		superior conj	5622 Mar 21 14:55	1° $\mathcal{Y}$ 32'46	-2°08'36
evening rise	5621 Apr 19 13:43	9° $\mathcal{B}$ 38'29		minimum elong	5622 Mar 21 16:39	1° $\mathcal{Y}$ 40'06	2°08'33
asc. node	5621 Apr 24 12:12	18° $\mathcal{B}$ 46'35		evening rise	5622 Apr 02 09:37	22° $\mathcal{Y}$ 07'15	
	5621 May 01 06:38	0° $\mathbb{I}$			5622 Apr 06 19:54	0° $\mathcal{B}$	
evening max el	5621 May 05 17:40	5° $\mathbb{I}$ 27'41	18°18'12	asc. node	5622 Apr 11 09:12	7° $\mathcal{B}$ 47'37	
retrograde	5621 May 12 22:35	9° $\mathbb{I}$ 03'26		evening max el	5622 Apr 19 05:11	18° $\mathcal{B}$ 29'43	18°06'28
evening set	5621 May 15 07:38	8° $\mathbb{I}$ 40'51		retrograde	5622 Apr 25 19:10	21° $\mathcal{B}$ 52'13	
inferior conj	5621 May 22 12:43	4° $\mathbb{I}$ 01'28	2°10'10	evening set	5622 Apr 28 11:07	21° $\mathcal{B}$ 18'56	
minimum elong	5621 May 22 16:08	3° $\mathbb{I}$ 54'12	2°09'11	inferior conj	5622 May 05 00:07	16° $\mathcal{B}$ 19'03	3°00'32
min. Earth dist.	5621 May 25 23:03	1° $\mathbb{I}$ 08'13	0.59038 AU	minimum elong	5622 May 05 02:53	16° $\mathcal{B}$ 12'17	3°00'00
	5621 May 27 10:35	30° $\mathcal{R}$ $\mathcal{B}$		min. Earth dist.	5622 May 08 03:43	13° $\mathcal{B}$ 15'14	0.61257 AU
morning rise	5621 May 29 21:37	28° $\mathcal{B}$ 24'41		morning rise	5622 May 11 16:37	10° $\mathcal{B}$ 22'00	
desc. node	5621 May 30 14:12	28° $\mathcal{B}$ 02'51		desc. node	5622 May 17 11:13	8° $\mathcal{B}$ 07'19	
direct	5621 Jun 05 03:29	26° $\mathcal{B}$ 39'12		direct	5622 May 18 10:05	8° $\mathcal{B}$ 04'39	
	5621 Jun 14 05:54	0° $\mathbb{I}$		morning max el	5622 Jun 01 15:30	16° $\mathcal{B}$ 02'49	27°51'15
morning max el	5621 Jun 19 12:47	4° $\mathbb{I}$ 27'30	27°19'25		5622 Jun 13 01:48	0° $\mathbb{I}$	
	5621 Jul 08 07:27	0° $\mathcal{E}$			5622 Jun 30 21:23	0° $\mathcal{E}$	
morning set	5621 Jul 20 10:57	23° $\mathcal{E}$ 05'50		morning set	5622 Jul 04 15:01	7° $\mathcal{E}$ 29'01	
asc. node	5621 Jul 21 11:28	25° $\mathcal{E}$ 15'06		asc. node	5622 Jul 08 08:30	15° $\mathcal{E}$ 19'29	
	5621 Jul 23 16:31	0° $\mathcal{O}$		max. Earth dist.	5622 Jul 10 12:33	20° $\mathcal{E}$ 01'05	1.32090 AU
max. Earth dist.	5621 Jul 27 02:56	7° $\mathcal{O}$ 32'08	1.31880 AU				
superior conj	5621 Jul 27 12:55	8° $\mathcal{O}$ 27'19	0°59'26	superior conj	5622 Jul 11 23:31	23° $\mathcal{E}$ 12'21	0°36'58
minimum elong	5621 Jul 27 10:45	8° $\mathcal{O}$ 15'19	0°59'02	minimum elong	5622 Jul 11 21:56	23° $\mathcal{E}$ 03'40	0°36'38
evening rise	5621 Aug 03 08:07	23° $\mathcal{O}$ 18'19			5622 Jul 15 01:42	0° $\mathcal{O}$	
	5621 Aug 06 13:30	0° $\mathbb{N}$		evening rise	5622 Jul 18 19:10	8° $\mathcal{O}$ 05'14	
	5621 Aug 24 09:37	0° $\mathcal{A}$			5622 Jul 30 02:51	0° $\mathbb{N}$	
desc. node	5621 Aug 26 13:30	2° $\mathcal{A}$ 44'48		desc. node	5622 Aug 13 10:30	19° $\mathbb{N}$ 22'00	
evening max el	5621 Sep 01 04:56	8° $\mathcal{A}$ 53'23	26°15'44	evening max el	5622 Aug 13 21:12	19° $\mathbb{N}$ 47'58	24°55'02
retrograde	5621 Sep 15 03:58	16° $\mathcal{A}$ 01'03		retrograde	5622 Aug 27 18:52	26° $\mathbb{N}$ 48'59	
evening set	5621 Sep 21 16:49	14° $\mathcal{A}$ 16'44		evening set	5622 Sep 02 05:37	25° $\mathbb{N}$ 41'54	
min. Earth dist.	5621 Sep 25 18:08	11° $\mathcal{A}$ 41'57	0.59152 AU	min. Earth dist.	5622 Sep 07 08:38	22° $\mathbb{N}$ 57'04	0.57186 AU
inferior conj	5621 Sep 28 23:45	9° $\mathcal{A}$ 14'52	-4°53'58	inferior conj	5622 Sep 10 05:35	21° $\mathbb{N}$ 03'35	-5°19'46
minimum elong	5621 Sep 29 05:14	9° $\mathcal{A}$ 04'24	4°53'05	minimum elong	5622 Sep 10 06:46	21° $\mathbb{N}$ 01'38	5°19'44
morning rise	5621 Oct 06 19:53	4° $\mathcal{A}$ 43'47		morning rise	5622 Sep 18 10:11	16° $\mathbb{N}$ 54'49	
				direct	5622 Sep 20 23:55	16° $\mathbb{N}$ 35'55	

morning max el	5622 Sep 30 03:14	20° $\mathbb{M}$ 54'37	19°14'08	minimum elong	5623 Aug 21 10:01	2° $\mathbb{M}$ 13'04	5°03'39
asc. node	5622 Oct 04 07:44	25° $\mathbb{M}$ 43'03			5623 Aug 25 09:14	30° $\mathbb{R}$ $\mathcal{O}$	
	5622 Oct 07 05:57	0° $\mathcal{E}$		morning rise	5623 Aug 30 02:10	28° $\mathcal{O}$ 12'53	
morning set	5622 Oct 17 02:46	18° $\mathcal{E}$ 07'59		direct	5623 Sep 02 00:14	27° $\mathcal{O}$ 52'18	
	5622 Oct 23 01:46	0° $\mathbb{M}$			5623 Sep 09 00:09	0° $\mathbb{M}$	
				morning max el	5623 Sep 12 15:48	2° $\mathbb{M}$ 49'31	20°25'19
superior conj	5622 Oct 25 06:45	4° $\mathbb{M}$ 19'15	1°33'04	asc. node	5623 Sep 21 04:47	13° $\mathbb{M}$ 44'35	
minimum elong	5622 Oct 25 09:15	4° $\mathbb{M}$ 31'21	1°32'54		5623 Sep 30 00:10	0° $\mathcal{E}$	
max. Earth dist.	5622 Oct 31 20:41	16° $\mathbb{M}$ 41'53	1.38364 AU	morning set	5623 Oct 01 08:50	2° $\mathcal{E}$ 46'16	
evening rise	5622 Nov 04 15:09	23° $\mathbb{M}$ 24'32					
	5622 Nov 08 11:48	0° $\mathcal{X}$		superior conj	5623 Oct 08 22:26	18° $\mathcal{E}$ 20'02	1°41'43
desc. node	5622 Nov 09 09:47	1° $\mathcal{X}$ 31'24		minimum elong	5623 Oct 08 23:24	18° $\mathcal{E}$ 24'54	1°41'41
	5622 Nov 28 11:07	0° $\mathcal{Z}$		max. Earth dist.	5623 Oct 14 03:40	28° $\mathcal{E}$ 39'43	1.36348 AU
evening max el	5622 Dec 10 04:13	13° $\mathcal{Z}$ 50'29	24°52'12		5623 Oct 14 20:25	0° $\mathbb{M}$	
retrograde	5622 Dec 21 21:13	20° $\mathcal{Z}$ 38'38		evening rise	5623 Oct 18 01:05	5° $\mathbb{M}$ 59'11	
evening set	5622 Dec 27 12:03	18° $\mathcal{Z}$ 18'21		desc. node	5623 Oct 27 06:49	22° $\mathbb{M}$ 00'41	
asc. node	5622 Dec 31 06:56	14° $\mathcal{Z}$ 10'25			5623 Nov 01 07:55	0° $\mathcal{X}$	
min. Earth dist.	5623 Jan 01 01:16	13° $\mathcal{Z}$ 11'01	0.67630 AU	evening max el	5623 Nov 22 16:53	27° $\mathcal{X}$ 34'26	26°01'21
inferior conj	5623 Jan 02 01:12	11° $\mathcal{Z}$ 52'06	0°35'31		5623 Nov 25 09:01	0° $\mathcal{Z}$	
minimum elong	5623 Jan 02 00:21	11° $\mathcal{Z}$ 54'56	0°35'10	retrograde	5623 Dec 05 06:12	4° $\mathcal{Z}$ 42'24	
morning rise	5623 Jan 07 12:49	5° $\mathcal{Z}$ 53'10		evening set	5623 Dec 11 10:24	2° $\mathcal{Z}$ 10'12	
direct	5623 Jan 11 03:57	4° $\mathcal{Z}$ 37'22			5623 Dec 13 16:02	30° $\mathbb{R}$ $\mathcal{X}$	
morning max el	5623 Jan 18 13:13	8° $\mathcal{Z}$ 46'32	19°45'33	min. Earth dist.	5623 Dec 15 16:32	27° $\mathcal{X}$ 37'54	0.66829 AU
greatest brilliancy	5623 Jan 31 14:24	25° $\mathcal{Z}$ 53'21	-0.6m	inferior conj	5623 Dec 17 03:43	25° $\mathcal{X}$ 48'16	-0°20'39
	5623 Feb 03 08:44	0° $\approx$		minimum elong	5623 Dec 17 04:16	25° $\mathcal{X}$ 46'34	0°20'24
desc. node	5623 Feb 05 09:02	3° $\approx$ 01'43		asc. node	5623 Dec 18 03:59	24° $\mathcal{X}$ 33'23	
morning set	5623 Feb 13 09:58	15° $\approx$ 18'34		morning rise	5623 Dec 22 22:39	19° $\mathcal{X}$ 58'27	
	5623 Feb 22 20:10	0° $\mathcal{H}$		direct	5623 Dec 26 02:38	19° $\mathcal{X}$ 01'12	
max. Earth dist.	5623 Feb 25 02:46	3° $\mathcal{H}$ 36'06	1.44347 AU	morning max el	5624 Jan 01 21:41	22° $\mathcal{X}$ 45'11	18°51'32
					5624 Jan 07 20:19	0° $\mathcal{Z}$	
superior conj	5623 Mar 01 21:49	11° $\mathcal{H}$ 17'01	-2°05'11	desc. node	5624 Jan 23 06:05	23° $\mathcal{Z}$ 25'28	
minimum elong	5623 Mar 01 17:26	10° $\mathcal{H}$ 59'18	2°05'01	morning set	5624 Jan 23 19:24	24° $\mathcal{Z}$ 17'37	
	5623 Mar 13 05:29	0° $\mathcal{Y}$			5624 Jan 27 10:53	0° $\approx$	
evening rise	5623 Mar 15 10:22	3° $\mathcal{Y}$ 43'51		max. Earth dist.	5624 Feb 07 19:46	17° $\approx$ 48'09	1.45197 AU
asc. node	5623 Mar 29 06:13	26° $\mathcal{Y}$ 16'54					
	5623 Apr 01 02:35	0° $\mathcal{B}$		superior conj	5624 Feb 09 07:20	20° $\approx$ 07'52	-1°42'01
evening max el	5623 Apr 02 18:09	1° $\mathcal{B}$ 48'01	18°13'44	minimum elong	5624 Feb 08 22:06	19° $\approx$ 31'32	1°41'12
retrograde	5623 Apr 09 03:48	5° $\mathcal{B}$ 12'10			5624 Feb 15 13:11	0° $\mathcal{H}$	
evening set	5623 Apr 12 02:10	4° $\mathcal{B}$ 26'48		evening rise	5624 Feb 24 12:27	14° $\mathcal{H}$ 23'19	
	5623 Apr 17 07:59	30° $\mathbb{R}$ $\mathcal{Y}$			5624 Mar 05 04:51	0° $\mathcal{Y}$	
inferior conj	5623 Apr 18 03:07	29° $\mathcal{Y}$ 07'33	3°25'38	asc. node	5624 Mar 15 03:14	14° $\mathcal{Y}$ 04'49	
minimum elong	5623 Apr 18 04:22	29° $\mathcal{Y}$ 04'07	3°25'31	evening max el	5624 Mar 16 05:49	15° $\mathcal{Y}$ 15'54	18°39'20
min. Earth dist.	5623 Apr 20 17:21	26° $\mathcal{Y}$ 16'22	0.63354 AU	retrograde	5624 Mar 22 20:15	18° $\mathcal{Y}$ 54'37	
morning rise	5623 Apr 24 05:27	22° $\mathcal{Y}$ 59'06		evening set	5624 Mar 26 01:05	17° $\mathcal{Y}$ 56'24	
direct	5623 May 01 01:35	20° $\mathcal{Y}$ 19'28		inferior conj	5624 Mar 31 17:44	12° $\mathcal{Y}$ 19'35	3°31'17
desc. node	5623 May 04 08:15	20° $\mathcal{Y}$ 52'02		minimum elong	5624 Mar 31 17:27	12° $\mathcal{Y}$ 20'26	3°31'16
morning max el	5623 May 14 23:13	28° $\mathcal{Y}$ 19'15	27°45'20	min. Earth dist.	5624 Apr 02 16:30	9° $\mathcal{Y}$ 57'45	0.65137 AU
	5623 May 16 14:01	0° $\mathcal{B}$		morning rise	5624 Apr 06 09:15	6° $\mathcal{Y}$ 05'47	
	5623 Jun 06 21:08	0° $\mathbb{I}$		direct	5624 Apr 13 00:43	3° $\mathcal{Y}$ 16'39	
morning set	5623 Jun 18 12:28	21° $\mathbb{I}$ 29'43		desc. node	5624 Apr 20 05:18	5° $\mathcal{Y}$ 53'00	
	5623 Jun 22 15:59	0° $\mathcal{E}$		morning max el	5624 Apr 26 09:23	11° $\mathcal{Y}$ 08'04	27°05'26
max. Earth dist.	5623 Jun 23 16:53	2° $\mathcal{E}$ 11'20	1.32742 AU		5624 May 11 08:21	0° $\mathcal{B}$	
asc. node	5623 Jun 25 05:31	5° $\mathcal{E}$ 26'31			5624 May 29 09:18	0° $\mathbb{I}$	
				morning set	5624 Jun 01 00:28	4° $\mathbb{I}$ 59'51	
superior conj	5623 Jun 26 07:05	7° $\mathcal{E}$ 44'02	0°11'03	max. Earth dist.	5624 Jun 05 12:11	13° $\mathbb{I}$ 53'25	1.33854 AU
minimum elong	5623 Jun 26 06:33	7° $\mathcal{E}$ 41'09	0°10'55				
behind sun begin	5623 Jun 26 02:40	7° $\mathcal{E}$ 20'10		superior conj	5624 Jun 09 09:37	21° $\mathbb{I}$ 56'28	-0°17'32
behind sun end	5623 Jun 26 10:27	8° $\mathcal{E}$ 02'08		minimum elong	5624 Jun 09 10:33	22° $\mathbb{I}$ 01'21	0°17'21
evening rise	5623 Jul 03 06:58	22° $\mathcal{E}$ 50'36		asc. node	5624 Jun 11 02:33	25° $\mathbb{I}$ 32'24	
	5623 Jul 06 17:34	0° $\mathcal{O}$			5624 Jun 13 04:56	0° $\mathcal{E}$	
	5623 Jul 26 05:01	0° $\mathbb{M}$		evening rise	5624 Jun 16 17:39	7° $\mathcal{E}$ 28'33	
evening max el	5623 Jul 26 09:28	0° $\mathbb{M}$ 10'52	23°18'41		5624 Jun 28 18:14	0° $\mathcal{O}$	
desc. node	5623 Jul 31 07:31	4° $\mathbb{M}$ 09'24		evening max el	5624 Jul 07 01:55	10° $\mathcal{O}$ 35'50	21°43'01
retrograde	5623 Aug 08 21:17	6° $\mathbb{M}$ 56'16		desc. node	5624 Jul 17 04:32	16° $\mathcal{O}$ 33'23	
evening set	5623 Aug 12 20:12	6° $\mathbb{M}$ 22'04		retrograde	5624 Jul 19 13:17	16° $\mathcal{O}$ 46'36	
min. Earth dist.	5623 Aug 19 18:46	3° $\mathbb{M}$ 10'35	0.55642 AU	evening set	5624 Jul 22 03:44	16° $\mathcal{O}$ 31'17	
inferior conj	5623 Aug 21 15:28	2° $\mathbb{M}$ 05'03	-5°04'20	inferior conj	5624 Jul 31 11:10	12° $\mathcal{O}$ 29'55	-3°56'39

minimum elong	5624 Jul 31 02:12	12° $\Omega$ 42'28	3°54'13	minimum elong	5625 Jul 10 23:25	22° $\mathfrak{G}$ 53'08	2°05'39
min. Earth dist.	5624 Jul 31 04:37	12° $\Omega$ 39'05	0.54834 AU	min. Earth dist.	5625 Jul 12 16:17	21° $\mathfrak{G}$ 53'21	0.54972 AU
morning rise	5624 Aug 09 01:58	8° $\Omega$ 38'41		morning rise	5625 Jul 19 20:23	18° $\mathfrak{G}$ 33'22	
direct	5624 Aug 12 10:46	8° $\Omega$ 13'56		direct	5625 Jul 23 21:02	17° $\mathfrak{G}$ 58'16	
morning max el	5624 Aug 24 16:30	13° $\Omega$ 58'58	21°56'10	morning max el	5625 Aug 06 08:28	24° $\mathfrak{G}$ 31'43	23°39'08
	5624 Sep 05 16:21	0° $\mathfrak{M}$			5625 Aug 11 09:12	0° $\Omega$	
asc. node	5624 Sep 07 01:51	2° $\mathfrak{M}$ 27'03		asc. node	5625 Aug 24 22:54	21° $\Omega$ 39'47	
morning set	5624 Sep 14 18:34	17° $\mathfrak{M}$ 34'18			5625 Aug 29 02:12	0° $\mathfrak{M}$	
	5624 Sep 20 15:27	0° $\underline{\Omega}$		morning set	5625 Aug 30 06:04	2° $\mathfrak{M}$ 26'21	
superior conj	5624 Sep 21 23:04	2° $\underline{\Omega}$ 46'41	1°42'46	superior conj	5625 Sep 06 05:37	17° $\mathfrak{M}$ 29'41	1°37'23
minimum elong	5624 Sep 21 22:37	2° $\underline{\Omega}$ 44'21	1°42'46	minimum elong	5625 Sep 06 04:07	17° $\mathfrak{M}$ 21'35	1°37'16
max. Earth dist.	5624 Sep 25 17:09	10° $\underline{\Omega}$ 32'50	1.34629 AU	max. Earth dist.	5625 Sep 08 15:21	22° $\mathfrak{M}$ 39'00	1.33308 AU
evening rise	5624 Sep 30 03:30	19° $\underline{\Omega}$ 19'34			5625 Sep 12 03:53	0° $\underline{\Omega}$	
	5624 Oct 05 21:49	0° $\mathfrak{M}$		evening rise	5625 Sep 13 18:21	3° $\underline{\Omega}$ 14'46	
desc. node	5624 Oct 13 03:49	12° $\mathfrak{M}$ 14'03			5625 Sep 28 16:54	0° $\mathfrak{M}$	
	5624 Oct 25 09:52	0° $\mathfrak{X}$		desc. node	5625 Sep 30 00:51	2° $\mathfrak{M}$ 04'34	
evening max el	5624 Nov 04 05:35	11° $\mathfrak{X}$ 12'04	26°54'13	evening max el	5625 Oct 17 17:42	24° $\mathfrak{M}$ 33'58	27°23'42
retrograde	5624 Nov 17 09:47	18° $\mathfrak{X}$ 29'40			5625 Oct 24 20:37	0° $\mathfrak{X}$	
evening set	5624 Nov 24 02:00	15° $\mathfrak{X}$ 50'41		retrograde	5625 Oct 31 07:26	1° $\mathfrak{X}$ 52'25	
min. Earth dist.	5624 Nov 28 01:40	11° $\mathfrak{X}$ 53'33	0.65672 AU		5625 Nov 06 06:06	30° $\mathfrak{R}$ $\mathfrak{M}$	
inferior conj	5624 Nov 30 00:32	9° $\mathfrak{X}$ 38'11	-1°21'42	evening set	5625 Nov 07 08:19	29° $\mathfrak{M}$ 14'37	
minimum elong	5624 Nov 30 02:52	9° $\mathfrak{X}$ 31'26	1°20'41	min. Earth dist.	5625 Nov 11 02:32	25° $\mathfrak{M}$ 51'04	0.64173 AU
asc. node	5624 Dec 04 01:04	5° $\mathfrak{X}$ 27'28		inferior conj	5625 Nov 13 13:14	23° $\mathfrak{M}$ 16'53	-2°25'42
morning rise	5624 Dec 06 04:42	3° $\mathfrak{X}$ 59'59		minimum elong	5625 Nov 13 17:32	23° $\mathfrak{M}$ 05'35	2°24'01
direct	5624 Dec 08 23:31	3° $\mathfrak{X}$ 17'33		morning rise	5625 Nov 20 04:11	17° $\mathfrak{M}$ 53'16	
morning max el	5624 Dec 15 11:39	6° $\mathfrak{X}$ 47'20	18°13'48	asc. node	5625 Nov 20 22:09	17° $\mathfrak{M}$ 37'17	
	5624 Dec 31 11:27	0° $\mathfrak{Z}$		direct	5625 Nov 22 16:15	17° $\mathfrak{M}$ 21'39	
morning set	5625 Jan 03 09:00	4° $\mathfrak{Z}$ 42'28		morning max el	5625 Nov 29 04:23	20° $\mathfrak{M}$ 46'30	17°53'06
desc. node	5625 Jan 09 03:06	14° $\mathfrak{Z}$ 00'24			5625 Dec 06 04:26	0° $\mathfrak{X}$	
superior conj	5625 Jan 18 11:02	28° $\mathfrak{Z}$ 50'00	-1°02'02	morning set	5625 Dec 16 03:03	16° $\mathfrak{X}$ 31'11	
minimum elong	5625 Jan 18 03:33	28° $\mathfrak{Z}$ 20'30	1°01'04		5625 Dec 24 03:22	0° $\mathfrak{Z}$	
	5625 Jan 19 04:50	0° $\approx$		desc. node	5625 Dec 27 00:07	4° $\mathfrak{Z}$ 42'52	
max. Earth dist.	5625 Jan 20 14:53	2° $\approx$ 13'37	1.45315 AU	superior conj	5625 Dec 29 04:57	8° $\mathfrak{Z}$ 17'51	-0°15'27
evening rise	5625 Feb 03 15:57	24° $\approx$ 09'38		minimum elong	5625 Dec 29 03:10	8° $\mathfrak{Z}$ 10'38	0°15'10
	5625 Feb 07 09:50	0° $\mathfrak{H}$		behind sun begin	5625 Dec 28 23:42	7° $\mathfrak{Z}$ 56'35	
greatest brilliancy	5625 Feb 15 10:54	12° $\mathfrak{H}$ 25'37	-0.7m	behind sun end	5625 Dec 29 06:39	8° $\mathfrak{Z}$ 24'41	
evening max el	5625 Feb 27 13:58	28° $\mathfrak{H}$ 48'02	19°22'09	max. Earth dist.	5626 Jan 03 09:31	16° $\mathfrak{Z}$ 36'41	1.44704 AU
	5625 Feb 28 19:56	0° $\mathfrak{Y}$			5626 Jan 11 23:03	0° $\approx$	
asc. node	5625 Mar 02 00:18	0° $\mathfrak{Y}$ 58'39		evening rise	5626 Jan 14 04:27	3° $\approx$ 25'37	
retrograde	5625 Mar 06 16:56	2° $\mathfrak{Y}$ 52'13			5626 Jan 31 22:57	0° $\mathfrak{H}$	
evening set	5625 Mar 10 05:03	1° $\mathfrak{Y}$ 40'22		evening max el	5626 Feb 10 17:12	12° $\mathfrak{H}$ 22'28	20°20'09
	5625 Mar 12 04:09	30° $\mathfrak{R}$ $\mathfrak{H}$		asc. node	5626 Feb 16 21:21	16° $\mathfrak{H}$ 44'21	
inferior conj	5625 Mar 15 16:28	25° $\mathfrak{H}$ 48'01	3°22'01	retrograde	5626 Feb 18 15:10	17° $\mathfrak{H}$ 00'29	
minimum elong	5625 Mar 15 15:01	25° $\mathfrak{H}$ 52'44	3°21'51	evening set	5626 Feb 22 11:51	15° $\mathfrak{H}$ 34'10	
min. Earth dist.	5625 Mar 17 00:05	24° $\mathfrak{H}$ 05'10	0.66523 AU	inferior conj	5626 Feb 27 20:33	9° $\mathfrak{H}$ 28'31	3°01'01
morning rise	5625 Mar 21 00:41	19° $\mathfrak{H}$ 32'39		minimum elong	5626 Feb 27 18:24	9° $\mathfrak{H}$ 35'50	3°00'35
direct	5625 Mar 27 06:21	16° $\mathfrak{H}$ 46'37		min. Earth dist.	5626 Feb 28 14:12	8° $\mathfrak{H}$ 28'29	0.67483 AU
desc. node	5625 Apr 07 02:21	22° $\mathfrak{H}$ 35'55		morning rise	5626 Mar 05 00:43	3° $\mathfrak{H}$ 13'57	
morning max el	5625 Apr 08 19:16	24° $\mathfrak{H}$ 15'25	25°59'05	direct	5626 Mar 10 17:29	0° $\mathfrak{H}$ 41'12	
	5625 Apr 13 23:04	0° $\mathfrak{Y}$		morning max el	5626 Mar 22 03:56	7° $\mathfrak{H}$ 31'47	24°36'06
	5625 May 04 18:20	0° $\mathfrak{Z}$		desc. node	5626 Mar 24 23:22	10° $\mathfrak{H}$ 32'40	
morning set	5625 May 14 23:02	17° $\mathfrak{Z}$ 47'19			5626 Apr 08 16:58	0° $\mathfrak{Y}$	
max. Earth dist.	5625 May 18 19:53	25° $\mathfrak{Z}$ 05'27	1.35432 AU	morning set	5626 Apr 27 03:06	29° $\mathfrak{Y}$ 38'16	
	5625 May 21 08:14	0° $\mathfrak{I}$			5626 Apr 27 08:02	0° $\mathfrak{Z}$	
superior conj	5625 May 24 04:31	5° $\mathfrak{I}$ 41'53	-0°47'34	max. Earth dist.	5626 Apr 30 18:00	6° $\mathfrak{Z}$ 07'10	1.37412 AU
minimum elong	5625 May 24 07:11	5° $\mathfrak{I}$ 55'22	0°47'05	superior conj	5626 May 07 12:41	18° $\mathfrak{Z}$ 52'27	-1°17'13
asc. node	5625 May 28 23:34	15° $\mathfrak{I}$ 32'30		minimum elong	5626 May 07 16:59	19° $\mathfrak{Z}$ 13'21	1°16'35
evening rise	5625 Jun 01 01:04	21° $\mathfrak{I}$ 51'52			5626 May 13 03:58	0° $\mathfrak{I}$	
	5625 Jun 05 02:15	0° $\mathfrak{G}$		asc. node	5626 May 15 20:36	5° $\mathfrak{I}$ 22'55	
evening max el	5625 Jun 19 05:27	21° $\mathfrak{G}$ 32'09	20°20'30	evening rise	5626 May 16 02:53	5° $\mathfrak{I}$ 54'11	
retrograde	5625 Jun 30 02:21	26° $\mathfrak{G}$ 51'48			5626 May 30 01:24	0° $\mathfrak{G}$	
evening set	5625 Jul 02 01:19	26° $\mathfrak{G}$ 42'11		evening max el	5626 Jun 01 21:38	3° $\mathfrak{G}$ 11'11	19°16'56
desc. node	5625 Jul 04 01:34	26° $\mathfrak{G}$ 13'30		retrograde	5626 Jun 11 01:12	7° $\mathfrak{G}$ 39'48	
inferior conj	5625 Jul 11 05:22	22° $\mathfrak{G}$ 44'26	-2°07'47	evening set	5626 Jun 13 00:11	7° $\mathfrak{G}$ 28'24	

desc. node	5626 Jun 20 22:36	3°♄41'56			5627 May 05 10:37	0°♊	
inferior conj	5626 Jun 21 12:09	3°♄19'34	-0°10'06	evening max el	5627 May 16 00:03	15°♊29'27	18°33'50
minimum elong	5626 Jun 21 11:43	3°♄20'18	0°09'58	retrograde	5627 May 23 18:36	19°♊19'58	
transit middle	5626 Jun 21 11:43	3°♄20'18	0°09'58	evening set	5627 May 25 23:39	19°♊02'20	
transit begin	5626 Jun 21 08:43	3°♄25'17		inferior conj	5627 Jun 02 15:34	14°♊34'24	1°27'39
transit end	5626 Jun 21 14:44	3°♄15'18		minimum elong	5627 Jun 02 18:27	14°♊28'48	1°26'41
min. Earth dist.	5626 Jun 24 06:23	1°♄30'28	0.56046 AU	min. Earth dist.	5627 Jun 06 00:21	11°♊59'00	0.57822 AU
	5626 Jun 26 18:45	30°♋♊		desc. node	5627 Jun 07 19:36	10°♊43'38	
morning rise	5626 Jun 29 20:18	28°♊34'51		morning rise	5627 Jun 10 09:59	9°♊14'32	
direct	5626 Jul 04 18:19	27°♊39'24		direct	5627 Jun 16 05:32	7°♊49'05	
	5626 Jul 12 15:22	0°♄		morning max el	5627 Jun 30 14:41	15°♊26'22	26°44'44
morning max el	5626 Jul 18 21:48	4°♄50'58	25°20'43		5627 Jul 12 09:24	0°♄	
	5626 Aug 05 23:21	0°♏			5627 Jul 29 04:23	0°♏	
asc. node	5626 Aug 11 19:55	11°♏14'40		asc. node	5627 Jul 29 16:55	1°♏05'32	
morning set	5626 Aug 14 17:39	17°♏17'18		morning set	5627 Jul 30 03:45	2°♏02'32	
	5626 Aug 20 14:00	0°♐					
				superior conj	5627 Aug 06 03:25	17°♏15'22	1°10'35
superior conj	5626 Aug 21 15:43	2°♐21'16	1°26'26	minimum elong	5627 Aug 06 01:08	17°♏02'42	1°10'12
minimum elong	5626 Aug 21 13:35	2°♐09'35	1°26'10	max. Earth dist.	5627 Aug 06 07:37	17°♏38'36	1.31958 AU
max. Earth dist.	5626 Aug 22 21:13	5°♐02'54	1.32420 AU		5627 Aug 11 23:24	0°♐	
evening rise	5626 Aug 28 18:09	17°♐34'43		evening rise	5627 Aug 13 00:07	2°♐11'09	
	5626 Sep 04 01:26	0°♑			5627 Aug 27 23:43	0°♑	
desc. node	5626 Sep 16 21:52	21°♑22'14		desc. node	5627 Sep 03 18:53	9°♑53'46	
	5626 Sep 23 07:50	0°♒		evening max el	5627 Sep 12 07:06	19°♑37'08	26°49'50
evening max el	5626 Sep 30 03:10	7°♒26'43	27°23'29	retrograde	5627 Sep 26 04:40	26°♑46'34	
retrograde	5626 Oct 13 22:03	14°♒40'51		evening set	5627 Oct 03 02:44	24°♑43'33	
evening set	5626 Oct 21 01:58	12°♒14'36		min. Earth dist.	5627 Oct 06 21:08	22°♑06'17	0.60357 AU
min. Earth dist.	5626 Oct 24 17:17	9°♒19'33	0.62373 AU	inferior conj	5627 Oct 10 02:05	19°♑28'26	-4°27'08
inferior conj	5626 Oct 27 14:53	6°♒36'35	-3°29'27	minimum elong	5627 Oct 10 08:28	19°♑15'18	4°25'40
minimum elong	5626 Oct 27 20:50	6°♒22'36	3°27'31	morning rise	5627 Oct 17 16:14	14°♑44'11	
morning rise	5626 Nov 03 17:30	1°♒30'53		direct	5627 Oct 19 23:40	14°♑23'51	
direct	5626 Nov 06 01:36	1°♒06'28		asc. node	5627 Oct 25 16:11	16°♑33'50	
asc. node	5626 Nov 07 19:11	1°♒20'18		morning max el	5627 Oct 27 09:34	18°♑03'30	18°06'28
morning max el	5626 Nov 12 20:45	4°♒34'32	17°50'15		5627 Nov 04 23:31	0°♒	
morning set	5626 Nov 28 19:20	29°♒23'40		morning set	5627 Nov 12 03:37	13°♒01'30	
	5626 Nov 29 03:28	0°♓			5627 Nov 21 08:23	0°♓	
superior conj	5626 Dec 10 00:07	18°♓59'36	0°27'22	superior conj	5627 Nov 21 20:50	0°♓55'47	1°00'56
minimum elong	5626 Dec 10 02:36	19°♓10'10	0°27'02	minimum elong	5627 Nov 22 00:41	1°♓13'00	1°00'28
desc. node	5626 Dec 13 21:07	25°♓28'58		max. Earth dist.	5627 Nov 29 12:39	14°♓12'24	1.41659 AU
	5626 Dec 16 15:15	0°♔		desc. node	5627 Nov 30 18:09	16°♓15'35	
max. Earth dist.	5626 Dec 17 01:28	0°♔41'31	1.43438 AU	evening rise	5627 Dec 04 18:58	22°♓51'37	
evening rise	5626 Dec 24 16:34	12°♔47'51			5627 Dec 09 07:09	0°♔	
	5627 Jan 05 01:18	0°♕			5627 Dec 30 03:15	0°♕	
evening max el	5627 Jan 24 14:55	25°♕57'49	21°30'15	evening max el	5628 Jan 07 07:47	9°♕35'08	22°48'01
	5627 Jan 29 12:32	0°♖		retrograde	5628 Jan 17 08:29	15°♕32'21	
retrograde	5627 Feb 02 12:51	1°♖14'56		asc. node	5628 Jan 21 15:25	13°♕57'42	
asc. node	5627 Feb 03 18:24	1°♖06'52		evening set	5628 Jan 22 02:51	13°♕35'04	
	5627 Feb 06 05:19	30°♗♕		inferior conj	5628 Jan 27 11:46	7°♕11'29	1°51'24
evening set	5627 Feb 06 19:39	29°♕33'19		minimum elong	5628 Jan 27 09:37	7°♕18'57	1°50'40
inferior conj	5627 Feb 12 03:38	23°♕17'02	2°30'21	min. Earth dist.	5628 Jan 27 05:06	7°♕34'31	0.68164 AU
minimum elong	5627 Feb 12 01:14	23°♕25'20	2°29'41	morning rise	5628 Feb 01 16:17	1°♕03'07	
min. Earth dist.	5627 Feb 12 08:36	22°♕59'47	0.68024 AU		5628 Feb 03 05:10	30°♗♔	
morning rise	5627 Feb 17 06:39	17°♕04'53		direct	5628 Feb 06 04:07	29°♔13'00	
direct	5627 Feb 22 09:01	14°♕52'02			5628 Feb 09 08:12	0°♕	
morning max el	5627 Mar 04 13:09	20°♕54'00	23°06'48	morning max el	5628 Feb 15 02:27	4°♕25'13	21°40'19
desc. node	5627 Mar 11 20:23	29°♕21'53		desc. node	5628 Feb 26 17:24	18°♕49'13	
	5627 Mar 12 08:16	0°♘			5628 Mar 05 11:57	0°♘	
	5627 Apr 01 23:08	0°♙		morning set	5628 Mar 18 05:47	19°♘34'44	
morning set	5627 Apr 08 06:40	10°♙16'42		max. Earth dist.	5628 Mar 24 13:20	29°♘50'19	1.41742 AU
max. Earth dist.	5627 Apr 12 13:31	17°♙33'36	1.39605 AU		5628 Mar 24 15:40	0°♙	
	5627 Apr 19 13:06	0°♚					
				superior conj	5628 Apr 01 03:42	12°♙46'00	-2°02'56
superior conj	5627 Apr 20 06:02	1°♚17'46	-1°43'43	minimum elong	5628 Apr 01 07:37	13°♙03'07	2°02'43
minimum elong	5627 Apr 20 11:10	1°♚41'29	1°43'10		5628 Apr 10 17:56	0°♚	
evening rise	5627 Apr 29 20:05	19°♚27'31		evening rise	5628 Apr 12 01:00	2°♚22'33	
asc. node	5627 May 02 17:38	24°♚58'56		asc. node	5628 Apr 18 14:40	14°♚14'31	

evening max el	5628 Apr 28 09:10	28°♄17'30	18°10'50		5629 Apr 03 13:42	0°♄	
	5628 Apr 30 09:18	0°♄		asc. node	5629 Apr 05 11:42	3°♄03'17	
retrograde	5628 May 05 06:29	1°♄46'07		evening max el	5629 Apr 11 21:39	11°♄27'11	18°07'18
evening set	5628 May 07 18:28	1°♄19'15		retrograde	5629 Apr 18 08:47	14°♄49'01	
	5628 May 10 08:41	30°♄		evening set	5629 Apr 21 03:22	14°♄10'54	
inferior conj	5628 May 14 16:10	26°♄30'45	2°35'01	inferior conj	5629 Apr 27 10:46	9°♄02'45	3°13'53
minimum elong	5628 May 14 19:30	26°♄23'13	2°34'11	minimum elong	5629 Apr 27 12:56	8°♄57'09	3°13'34
min. Earth dist.	5628 May 18 00:38	23°♄30'04	0.59970 AU	min. Earth dist.	5629 Apr 30 09:15	6°♄01'27	0.62168 AU
morning rise	5628 May 21 17:56	20°♄43'53		morning rise	5629 May 03 20:50	2°♄59'35	
desc. node	5628 May 24 16:38	19°♄19'59		direct	5629 May 10 16:20	0°♄31'07	
direct	5628 May 28 05:33	18°♄44'26		desc. node	5629 May 11 13:40	0°♄33'29	
morning max el	5628 Jun 11 14:01	26°♄37'58	27°37'46	morning max el	5629 May 24 19:20	8°♄32'06	27°53'17
	5628 Jun 14 18:17	0°♄			5629 Jun 10 07:37	0°♄	
	5628 Jul 04 22:34	0°♄			5629 Jun 27 02:17	0°♄	
morning set	5628 Jul 13 10:35	16°♄35'31		morning set	5629 Jun 27 12:09	0°♄50'04	
asc. node	5628 Jul 15 13:55	21°♄06'10		asc. node	5629 Jul 02 10:58	11°♄12'07	
	5628 Jul 19 16:12	0°♄		max. Earth dist.	5629 Jul 03 02:25	12°♄35'15	1.32306 AU
max. Earth dist.	5628 Jul 19 18:40	0°♄13'33	1.31916 AU				
				superior conj	5629 Jul 05 00:27	16°♄44'59	0°26'22
superior conj	5628 Jul 20 14:54	2°♄05'05	0°50'23	minimum elong	5629 Jul 04 23:15	16°♄38'29	0°26'06
minimum elong	5628 Jul 20 12:55	1°♄54'10	0°49'59		5629 Jul 11 02:21	0°♄	
evening rise	5628 Jul 27 09:52	16°♄55'43		evening rise	5629 Jul 11 21:26	1°♄42'15	
	5628 Aug 02 20:26	0°♄			5629 Jul 27 06:37	0°♄	
desc. node	5628 Aug 20 15:53	27°♄19'39		evening max el	5629 Aug 05 16:56	11°♄34'23	24°14'58
	5628 Aug 23 03:54	0°♄		desc. node	5629 Aug 07 12:54	13°♄14'08	
evening max el	5628 Aug 24 03:16	0°♄57'07	25°44'08	retrograde	5629 Aug 19 12:17	18°♄31'18	
retrograde	5628 Sep 07 02:05	8°♄02'48		evening set	5629 Aug 24 08:12	17°♄39'30	
evening set	5628 Sep 13 05:42	6°♄33'36		min. Earth dist.	5629 Aug 30 03:46	14°♄44'51	0.56457 AU
min. Earth dist.	5628 Sep 17 15:25	3°♄57'06	0.58292 AU	inferior conj	5629 Sep 01 16:25	13°♄10'08	-5°19'15
inferior conj	5628 Sep 20 19:19	1°♄41'54	-5°08'49	minimum elong	5629 Sep 01 14:50	13°♄12'37	5°19'11
minimum elong	5628 Sep 20 23:25	1°♄34'32	5°08'22	morning rise	5629 Sep 09 23:54	9°♄09'42	
	5628 Sep 23 06:15	30°♄		direct	5629 Sep 12 16:37	8°♄50'29	
morning rise	5628 Sep 28 19:27	27°♄20'56		morning max el	5629 Sep 22 10:59	13°♄24'29	19°41'44
direct	5628 Oct 01 05:44	27°♄02'14		asc. node	5629 Sep 28 10:15	20°♄36'41	
	5628 Oct 08 10:55	0°♄			5629 Oct 04 01:59	0°♄	
morning max el	5628 Oct 09 15:24	1°♄03'20	18°43'14	morning set	5629 Oct 10 01:58	11°♄39'25	
asc. node	5628 Oct 11 13:12	3°♄04'15					
morning set	5628 Oct 25 23:01	27°♄09'58		superior conj	5629 Oct 17 23:08	27°♄32'49	1°37'44
	5628 Oct 27 09:50	0°♄		minimum elong	5629 Oct 18 00:59	27°♄41'59	1°37'38
					5629 Oct 19 05:02	0°♄	
superior conj	5628 Nov 03 14:16	13°♄51'55	1°24'09	max. Earth dist.	5629 Oct 23 23:39	9°♄07'36	1.37480 AU
minimum elong	5628 Nov 03 17:32	14°♄07'18	1°23'50	evening rise	5629 Oct 27 17:51	15°♄58'38	
max. Earth dist.	5628 Nov 10 18:51	26°♄58'54	1.39583 AU	desc. node	5629 Nov 03 12:11	27°♄34'28	
	5628 Nov 12 12:21	0°♄			5629 Nov 04 23:49	0°♄	
evening rise	5628 Nov 14 19:16	3°♄54'48			5629 Nov 26 01:18	0°♄	
desc. node	5628 Nov 16 15:11	6°♄58'48		evening max el	5629 Dec 02 10:12	7°♄00'00	25°23'13
	5628 Dec 01 11:45	0°♄		retrograde	5629 Dec 14 12:51	13°♄58'38	
evening max el	5628 Dec 19 21:31	23°♄16'00	24°07'56	evening set	5629 Dec 20 09:17	11°♄32'56	
retrograde	5628 Dec 31 00:51	29°♄48'47		min. Earth dist.	5629 Dec 24 19:24	6°♄40'12	0.67326 AU
evening set	5629 Jan 05 07:57	27°♄36'23		asc. node	5629 Dec 25 09:30	5°♄54'47	
asc. node	5629 Jan 07 12:26	25°♄23'36		inferior conj	5629 Dec 26 00:04	5°♄07'39	0°12'20
min. Earth dist.	5629 Jan 10 01:29	22°♄09'23	0.67924 AU	minimum elong	5629 Dec 25 23:45	5°♄08'40	0°12'13
inferior conj	5629 Jan 10 19:11	21°♄09'33	1°05'09	transit middle	5629 Dec 25 23:45	5°♄08'40	0°12'13
minimum elong	5629 Jan 10 17:43	21°♄14'30	1°04'35	transit begin	5629 Dec 25 21:55	5°♄14'34	
morning rise	5629 Jan 16 03:34	15°♄06'36		transit end	5629 Dec 26 01:35	5°♄02'45	
direct	5629 Jan 20 01:46	13°♄38'59			5629 Dec 30 13:04	30°♄	
morning max el	5629 Jan 27 22:49	18°♄08'26	20°23'33	morning rise	5629 Dec 31 14:32	29°♄12'06	
	5629 Feb 06 12:31	0°♄		direct	5630 Jan 04 00:36	28°♄04'42	
desc. node	5629 Feb 12 14:27	8°♄44'27			5630 Jan 08 19:28	0°♄	
morning set	5629 Feb 25 06:16	27°♄54'09		morning max el	5630 Jan 11 03:03	2°♄02'11	19°20'33
	5629 Feb 26 14:42	0°♄		greatest brilliancy	5630 Jan 24 09:12	19°♄42'55	-0.7m
max. Earth dist.	5629 Mar 06 20:17	13°♄00'43	1.43543 AU	desc. node	5630 Jan 30 11:28	28°♄59'23	
					5630 Jan 31 03:15	0°♄	
superior conj	5629 Mar 13 01:17	23°♄08'40	-2°09'25	morning set	5630 Feb 04 05:11	6°♄17'48	
minimum elong	5629 Mar 13 00:40	23°♄06'08	2°09'25	max. Earth dist.	5630 Feb 17 09:55	26°♄53'43	1.44792 AU
	5629 Mar 17 03:30	0°♄			5630 Feb 19 09:01	0°♄	
evening rise	5629 Mar 25 13:21	14°♄30'19					



superior conj	5630 Feb 20 21:58	2° $\text{H}$ 26'53	-1°57'49	max. Earth dist.	5631 Jan 31 04:18	11° $\approx$ 14'13	1.45347 AU
minimum elong	5630 Feb 20 14:57	1° $\text{H}$ 58'56	1°57'23		5631 Feb 12 02:35	0° $\text{H}$	
evening rise	5630 Mar 07 04:43	25° $\text{H}$ 42'20		evening rise	5631 Feb 15 20:47	5° $\text{H}$ 57'39	
	5630 Mar 09 18:39	0° $\text{Y}$		greatest brilliancy	5631 Feb 24 17:36	20° $\text{H}$ 02'00	-0.8m
asc. node	5630 Mar 23 08:45	21° $\text{Y}$ 16'22			5631 Mar 03 06:45	0° $\text{Y}$	
evening max el	5630 Mar 26 10:24	24° $\text{Y}$ 50'18	18°22'30	evening max el	5631 Mar 09 20:54	8° $\text{Y}$ 20'50	18°55'33
retrograde	5630 Apr 01 21:06	28° $\text{Y}$ 19'02		asc. node	5631 Mar 10 05:48	8° $\text{Y}$ 43'02	
evening set	5630 Apr 04 22:08	27° $\text{Y}$ 28'22		retrograde	5631 Mar 16 15:36	12° $\text{Y}$ 08'41	
inferior conj	5630 Apr 10 19:10	22° $\text{Y}$ 01'44	3°30'02	evening set	5631 Mar 19 23:31	11° $\text{Y}$ 04'38	
minimum elong	5630 Apr 10 19:44	22° $\text{Y}$ 00'06	3°30'01	inferior conj	5631 Mar 25 13:36	5° $\text{Y}$ 21'04	3°28'54
min. Earth dist.	5630 Apr 13 03:02	19° $\text{Y}$ 21'09	0.64161 AU	minimum elong	5631 Mar 25 12:47	5° $\text{Y}$ 23'39	3°28'51
morning rise	5630 Apr 16 16:28	15° $\text{Y}$ 50'29		min. Earth dist.	5631 Mar 27 05:48	3° $\text{Y}$ 15'09	0.65789 AU
direct	5630 Apr 23 11:33	13° $\text{Y}$ 04'47			5631 Mar 30 02:48	30° $\text{R}$ $\text{H}$	
desc. node	5630 Apr 28 10:43	14° $\text{Y}$ 19'46		morning rise	5631 Mar 31 01:37	29° $\text{H}$ 06'30	
morning max el	5630 May 07 04:15	21° $\text{Y}$ 02'49	27°32'01	direct	5631 Apr 06 13:33	26° $\text{H}$ 17'16	
	5630 May 14 22:11	0° $\text{B}$		desc. node	5631 Apr 15 07:46	0° $\text{Y}$ 07'53	
	5630 Jun 03 10:27	0° $\text{II}$			5631 Apr 15 03:44	0° $\text{Y}$	
morning set	5630 Jun 11 05:58	14° $\text{II}$ 38'27		morning max el	5631 Apr 19 14:18	4° $\text{Y}$ 00'03	26°39'46
max. Earth dist.	5630 Jun 16 02:59	24° $\text{II}$ 32'17	1.33152 AU		5631 May 09 08:04	0° $\text{B}$	
	5630 Jun 18 17:12	0° $\text{B}$		morning set	5631 May 25 12:44	27° $\text{B}$ 51'22	
					5631 May 26 15:41	0° $\text{II}$	
superior conj	5630 Jun 19 06:09	1° $\text{B}$ 09'04	-0°00'49	max. Earth dist.	5631 May 29 17:24	6° $\text{II}$ 00'18	1.34474 AU
minimum elong	5630 Jun 19 06:12	1° $\text{B}$ 09'17	0°00'50				
behind sun begin	5630 Jun 19 00:47	0° $\text{B}$ 40'27		superior conj	5631 Jun 03 05:47	15° $\text{II}$ 10'50	-0°30'11
behind sun end	5630 Jun 19 11:36	1° $\text{B}$ 38'09		minimum elong	5631 Jun 03 07:25	15° $\text{II}$ 19'21	0°29'53
asc. node	5630 Jun 19 08:01	1° $\text{B}$ 19'02		asc. node	5631 Jun 06 05:04	21° $\text{II}$ 22'53	
evening rise	5630 Jun 26 08:58	16° $\text{B}$ 24'43			5631 Jun 10 07:33	0° $\text{B}$	
	5630 Jul 03 03:01	0° $\text{O}$		evening rise	5631 Jun 10 18:32	0° $\text{B}$ 57'09	
evening max el	5630 Jul 18 06:05	21° $\text{O}$ 54'21	22°37'09		5631 Jun 27 18:51	0° $\text{O}$	
desc. node	5630 Jul 25 09:55	27° $\text{O}$ 04'32		evening max el	5631 Jun 30 02:44	2° $\text{O}$ 29'48	21°05'48
retrograde	5630 Jul 31 09:41	28° $\text{O}$ 27'09		retrograde	5631 Jul 11 22:28	8° $\text{O}$ 19'31	
evening set	5630 Aug 03 17:08	28° $\text{O}$ 03'07		desc. node	5631 Jul 12 06:57	8° $\text{O}$ 19'13	
min. Earth dist.	5630 Aug 11 13:44	24° $\text{O}$ 36'04	0.55188 AU	evening set	5631 Jul 14 04:18	8° $\text{O}$ 07'44	
inferior conj	5630 Aug 12 19:11	23° $\text{O}$ 54'09	-4°42'03	inferior conj	5631 Jul 23 12:18	4° $\text{O}$ 10'00	-3°13'49
minimum elong	5630 Aug 12 11:29	24° $\text{O}$ 05'08	4°40'35	minimum elong	5631 Jul 23 03:55	4° $\text{O}$ 21'48	3°11'10
morning rise	5630 Aug 21 07:48	20° $\text{O}$ 04'22		min. Earth dist.	5631 Jul 23 23:51	3° $\text{O}$ 53'44	0.54772 AU
direct	5630 Aug 24 10:05	19° $\text{O}$ 42'22		morning rise	5631 Aug 01 03:54	0° $\text{O}$ 13'06	
morning max el	5630 Sep 04 18:19	24° $\text{O}$ 59'48	21°01'49		5631 Aug 02 03:31	30° $\text{R}$ $\text{B}$	
	5630 Sep 09 07:00	0° $\text{H}$		direct	5631 Aug 04 19:00	29° $\text{B}$ 44'48	
asc. node	5630 Sep 15 07:19	8° $\text{H}$ 57'17			5631 Aug 07 09:24	0° $\text{O}$	
morning set	5630 Sep 24 09:54	26° $\text{H}$ 22'59		morning max el	5631 Aug 17 14:27	5° $\text{O}$ 50'35	22°39'16
	5630 Sep 26 03:38	0° $\text{B}$		asc. node	5631 Sep 02 04:21	27° $\text{O}$ 53'39	
					5631 Sep 03 07:09	0° $\text{H}$	
superior conj	5630 Oct 01 19:04	11° $\text{B}$ 46'11	1°43'00	morning set	5631 Sep 08 20:36	11° $\text{H}$ 13'32	
minimum elong	5630 Oct 01 19:24	11° $\text{B}$ 47'54	1°43'00				
max. Earth dist.	5630 Oct 06 09:00	21° $\text{B}$ 01'24	1.35575 AU	superior conj	5631 Sep 15 22:30	26° $\text{H}$ 20'37	1°41'13
evening rise	5630 Oct 10 11:25	28° $\text{B}$ 55'02		minimum elong	5631 Sep 15 21:34	26° $\text{H}$ 15'36	1°41'11
	5630 Oct 11 01:19	0° $\text{H}$			5631 Sep 17 15:59	0° $\text{B}$	
desc. node	5630 Oct 21 09:12	17° $\text{H}$ 58'11		max. Earth dist.	5631 Sep 19 02:30	3° $\text{B}$ 00'20	1.34015 AU
	5630 Oct 29 05:08	0° $\text{H}$		evening rise	5631 Sep 23 19:34	12° $\text{B}$ 31'28	
evening max el	5630 Nov 14 23:10	20° $\text{H}$ 43'42	26°26'20		5631 Oct 03 08:25	0° $\text{H}$	
retrograde	5630 Nov 27 19:36	27° $\text{H}$ 56'35		desc. node	5631 Oct 08 06:13	8° $\text{H}$ 03'06	
evening set	5630 Dec 04 05:03	25° $\text{H}$ 21'07			5631 Oct 24 09:13	0° $\text{H}$	
min. Earth dist.	5630 Dec 08 08:29	21° $\text{H}$ 03'32	0.66381 AU	evening max el	5631 Oct 28 11:57	4° $\text{H}$ 16'47	27°10'01
inferior conj	5630 Dec 10 00:28	19° $\text{H}$ 02'33	-0°46'01	retrograde	5631 Nov 10 20:28	11° $\text{H}$ 34'40	
minimum elong	5630 Dec 10 01:44	18° $\text{H}$ 58'43	0°45'27	evening set	5631 Nov 17 17:00	8° $\text{H}$ 55'10	
asc. node	5630 Dec 12 06:33	16° $\text{H}$ 25'03		min. Earth dist.	5631 Nov 21 14:16	5° $\text{H}$ 12'45	0.65083 AU
morning rise	5630 Dec 15 23:05	13° $\text{H}$ 17'01		inferior conj	5631 Nov 23 18:09	2° $\text{H}$ 48'37	-1°48'35
direct	5630 Dec 18 22:57	12° $\text{H}$ 26'26		minimum elong	5631 Nov 23 21:19	2° $\text{H}$ 39'50	1°47'16
morning max el	5630 Dec 25 14:06	16° $\text{H}$ 03'08	18°33'21		5631 Nov 26 09:57	30° $\text{R}$ $\text{H}$	
	5631 Jan 04 23:54	0° $\text{B}$		asc. node	5631 Nov 29 03:36	27° $\text{H}$ 47'37	
morning set	5631 Jan 15 01:51	15° $\text{B}$ 52'01		morning rise	5631 Nov 30 02:44	27° $\text{H}$ 16'10	
desc. node	5631 Jan 17 08:31	19° $\text{B}$ 28'40		direct	5631 Dec 02 18:29	26° $\text{H}$ 38'39	
	5631 Jan 24 00:29	0° $\approx$		morning max el	5631 Dec 09 05:35	0° $\text{H}$ 04'54	18°02'51
					5631 Dec 09 03:36	0° $\text{H}$	
superior conj	5631 Jan 31 02:34	11° $\approx$ 07'27	-1°26'37	morning set	5631 Dec 27 04:09	26° $\text{H}$ 54'57	
minimum elong	5631 Jan 30 17:13	10° $\approx$ 30'45	1°25'37		5631 Dec 29 00:57	0° $\text{B}$	

desc. node	5632 Jan 04 05:31	10°♄07'23		minimum elong	5632 Dec 20 14:34	0°♄02'47	0°03'37
				behind sun begin	5632 Dec 20 05:12	29°♄24'10	
superior conj	5632 Jan 10 10:07	20°♄03'01	-0°42'21	behind sun end	5632 Dec 20 23:55	0°♄41'19	
minimum elong	5632 Jan 10 04:56	19°♄42'27	0°41'38		5632 Dec 20 13:53	0°♄	
max. Earth dist.	5632 Jan 14 00:08	25°♄42'58	1.45151 AU	desc. node	5632 Dec 21 02:30	0°♄51'55	
	5632 Jan 16 17:39	0°♄		max. Earth dist.	5632 Dec 26 17:56	10°♄00'30	1.44238 AU
evening rise	5632 Jan 26 16:32	15°♄27'47		evening rise	5633 Jan 05 02:50	24°♄41'28	
	5632 Feb 05 03:47	0°♄			5633 Jan 08 14:04	0°♄	
greatest brilliancy	5632 Feb 09 06:33	6°♄11'36	-0.7m		5633 Jan 29 10:15	0°♄	
evening max el	5632 Feb 21 03:05	21°♄54'16	19°45'05	evening max el	5633 Feb 03 03:48	5°♄28'36	20°48'41
asc. node	5632 Feb 25 02:50	25°♄09'55		asc. node	5633 Feb 10 23:52	10°♄22'03	
retrograde	5632 Feb 28 13:17	26°♄11'48		retrograde	5633 Feb 11 11:36	10°♄23'20	
evening set	5632 Mar 03 04:57	24°♄53'41		evening set	5633 Feb 15 12:22	8°♄50'32	
inferior conj	5632 Mar 08 14:55	18°♄55'10	3°14'24	inferior conj	5633 Feb 20 20:31	2°♄39'42	2°49'07
minimum elong	5632 Mar 08 13:06	19°♄01'10	3°14'06	minimum elong	5633 Feb 20 18:12	2°♄47'39	2°48'34
min. Earth dist.	5632 Mar 09 16:19	17°♄30'41	0.66986 AU	min. Earth dist.	5633 Feb 21 08:34	1°♄58'12	0.67759 AU
morning rise	5632 Mar 13 21:03	12°♄40'04			5633 Feb 22 19:40	30°♄	
direct	5632 Mar 19 21:26	9°♄58'59		morning rise	5633 Feb 25 23:51	26°♄25'50	
morning max el	5632 Mar 31 23:47	17°♄12'45	25°25'15	direct	5633 Mar 03 10:25	24°♄01'12	
desc. node	5632 Apr 01 04:48	17°♄25'31			5633 Mar 13 19:30	0°♄	
	5632 Apr 11 15:49	0°♄		morning max el	5633 Mar 14 08:32	0°♄32'26	23°58'19
	5632 May 01 07:26	0°♄		desc. node	5633 Mar 19 01:49	5°♄46'55	
morning set	5632 May 07 04:08	10°♄17'01			5633 Apr 05 13:43	0°♄	
max. Earth dist.	5632 May 10 20:57	17°♄06'56	1.36236 AU	morning set	5633 Apr 18 22:31	21°♄39'15	
				max. Earth dist.	5633 Apr 22 17:02	28°♄15'15	1.38330 AU
superior conj	5632 May 16 20:33	28°♄42'55	-1°00'20		5633 Apr 23 16:28	0°♄	
minimum elong	5632 May 16 23:57	28°♄59'51	0°59'45				
	5632 May 17 12:00	0°♄		superior conj	5633 Apr 29 22:53	11°♄35'15	-1°29'05
asc. node	5632 May 23 02:06	11°♄19'54		minimum elong	5633 Apr 30 03:43	11°♄58'11	1°28'26
evening rise	5632 May 24 23:56	15°♄13'11		evening rise	5633 May 08 22:28	29°♄04'17	
	5632 Jun 01 16:12	0°♄			5633 May 09 09:50	0°♄	
evening max el	5632 Jun 11 11:40	13°♄43'57	19°50'55	asc. node	5633 May 09 23:06	1°♄04'53	
retrograde	5632 Jun 21 14:35	18°♄41'26		evening max el	5633 May 25 08:32	25°♄40'24	18°56'06
evening set	5632 Jun 23 12:14	18°♄31'42		retrograde	5633 Jun 02 21:01	29°♄51'15	
desc. node	5632 Jun 28 04:00	16°♄55'53		evening set	5633 Jun 04 22:01	29°♄37'48	
inferior conj	5632 Jul 02 10:24	14°♄30'16	-1°16'53	inferior conj	5633 Jun 13 01:31	25°♄21'27	0°34'49
minimum elong	5632 Jul 02 06:51	14°♄35'43	1°15'33	minimum elong	5633 Jun 13 02:53	25°♄19'02	0°34'18
min. Earth dist.	5632 Jul 04 12:13	13°♄14'05	0.55321 AU	desc. node	5633 Jun 15 01:02	23°♄57'06	
morning rise	5632 Jul 10 23:30	10°♄06'07		min. Earth dist.	5633 Jun 16 04:02	23°♄10'22	0.56729 AU
direct	5632 Jul 15 08:34	9°♄23'59		morning rise	5633 Jun 21 04:24	20°♄20'47	
morning max el	5632 Jul 29 04:36	16°♄14'43	24°23'36	direct	5633 Jun 26 11:42	19°♄13'33	
	5632 Aug 09 05:58	0°♄		morning max el	5633 Jul 10 19:04	26°♄38'18	25°59'31
asc. node	5632 Aug 19 01:23	17°♄16'55			5633 Jul 14 00:18	0°♄	
morning set	5632 Aug 23 08:20	26°♄06'02			5633 Aug 02 10:43	0°♄	
	5632 Aug 25 04:04	0°♄		asc. node	5633 Aug 05 22:23	6°♄59'15	
				morning set	5633 Aug 07 19:27	10°♄55'02	
superior conj	5632 Aug 30 06:49	11°♄08'12	1°33'22				
minimum elong	5632 Aug 30 05:00	10°♄58'17	1°33'12	superior conj	5633 Aug 14 17:49	26°♄01'36	1°20'16
max. Earth dist.	5632 Sep 01 04:19	15°♄14'35	1.32875 AU	minimum elong	5633 Aug 14 15:34	25°♄49'10	1°19'57
evening rise	5632 Sep 06 14:35	26°♄38'05		max. Earth dist.	5633 Aug 15 12:18	27°♄43'22	1.32166 AU
	5632 Sep 08 06:47	0°♄			5633 Aug 16 13:11	0°♄	
desc. node	5632 Sep 24 03:13	27°♄41'06		evening rise	5633 Aug 21 17:16	11°♄05'37	
	5632 Sep 25 16:38	0°♄			5633 Aug 31 12:06	0°♄	
evening max el	5632 Oct 09 23:02	17°♄27'06	27°27'24	desc. node	5633 Sep 11 00:15	16°♄41'08	
retrograde	5632 Oct 23 15:06	24°♄44'08			5633 Sep 22 05:13	0°♄	
evening set	5632 Oct 30 18:21	22°♄09'31		evening max el	5633 Sep 22 06:15	0°♄02'28	27°13'18
min. Earth dist.	5632 Nov 03 10:46	18°♄59'22	0.63445 AU	retrograde	5633 Oct 06 02:49	7°♄15'29	
inferior conj	5632 Nov 06 02:28	16°♄19'48	-2°53'01	evening set	5633 Oct 13 05:26	4°♄57'26	
minimum elong	5632 Nov 06 07:33	16°♄07'03	2°51'10	min. Earth dist.	5633 Oct 16 20:52	2°♄11'43	0.61526 AU
morning rise	5632 Nov 12 22:22	11°♄03'43			5633 Oct 19 08:22	30°♄	
direct	5632 Nov 15 08:25	10°♄35'34		inferior conj	5633 Oct 19 22:22	29°♄28'39	-3°55'11
asc. node	5632 Nov 15 00:38	10°♄36'05		minimum elong	5633 Oct 20 04:44	29°♄14'29	3°53'21
morning max el	5632 Nov 21 22:34	14°♄00'29	17°49'42	morning rise	5633 Oct 27 06:02	24°♄31'59	
	5632 Dec 03 00:18	0°♄		direct	5633 Oct 29 13:16	24°♄09'46	
morning set	5632 Dec 08 08:25	9°♄13'06		asc. node	5633 Nov 01 21:39	24°♄58'40	
				morning max el	5633 Nov 05 13:54	27°♄41'56	17°54'48
superior conj	5632 Dec 20 14:11	0°♄01'13	0°03'39		5633 Nov 07 16:00	0°♄	

morning set	5633 Nov 21 08:13	22° $\mathbb{M}$ 26'59		morning set	5634 Nov 04 21:45	6° $\mathbb{M}$ 19'23	
	5633 Nov 25 11:57	0° $\mathbb{X}$					
superior conj	5633 Dec 01 20:40	11° $\mathbb{X}$ 16'26	0°42'51	superior conj	5634 Nov 14 02:49	23° $\mathbb{M}$ 39'43	1°12'02
minimum elong	5633 Dec 02 00:04	11° $\mathbb{X}$ 31'08	0°42'24	minimum elong	5634 Nov 14 06:35	23° $\mathbb{M}$ 56'57	1°11'36
desc. node	5633 Dec 07 23:31	21° $\mathbb{X}$ 39'02			5634 Nov 17 15:11	0° $\mathbb{X}$	
max. Earth dist.	5633 Dec 09 07:30	23° $\mathbb{X}$ 51'02	1.42724 AU	max. Earth dist.	5634 Nov 21 16:13	7° $\mathbb{X}$ 02'51	1.40794 AU
	5633 Dec 13 02:30	0° $\mathbb{Z}$		desc. node	5634 Nov 24 20:32	12° $\mathbb{X}$ 24'44	
evening rise	5633 Dec 15 19:33	4° $\mathbb{Z}$ 18'12		evening rise	5634 Nov 26 06:52	14° $\mathbb{X}$ 46'36	
	5634 Jan 01 23:06	0° $\approx$			5634 Dec 05 22:23	0° $\mathbb{Z}$	
evening max el	5634 Jan 16 23:18	19° $\approx$ 05'07	22°02'43	evening max el	5634 Dec 28 00:39	0° $\approx$	
retrograde	5634 Jan 26 08:42	24° $\approx$ 40'01		retrograde	5634 Dec 30 14:44	2° $\approx$ 44'37	23°22'13
asc. node	5634 Jan 28 20:53	24° $\approx$ 06'49		retrograde	5635 Jan 10 03:00	8° $\approx$ 57'32	
evening set	5634 Jan 30 20:07	22° $\approx$ 51'57		evening set	5635 Jan 15 02:36	6° $\approx$ 53'58	
inferior conj	5634 Feb 05 04:18	16° $\approx$ 32'01	2°14'49	asc. node	5635 Jan 15 17:56	6° $\approx$ 19'41	
minimum elong	5634 Feb 05 01:57	16° $\approx$ 40'11	2°14'06	min. Earth dist.	5635 Jan 20 01:04	1° $\approx$ 07'31	0.68108 AU
min. Earth dist.	5634 Feb 05 04:16	16° $\approx$ 32'07	0.68127 AU	inferior conj	5635 Jan 20 12:22	0° $\approx$ 28'41	1°32'39
morning rise	5634 Feb 10 07:38	10° $\approx$ 21'02		minimum elong	5635 Jan 20 10:27	0° $\approx$ 35'17	1°31'57
direct	5634 Feb 15 03:45	8° $\approx$ 17'34			5635 Jan 20 20:44	30° $\mathbb{R}$ $\mathbb{Z}$	
morning max el	5634 Feb 24 19:00	13° $\approx$ 58'34	22°29'07	morning rise	5635 Jan 25 18:13	24° $\mathbb{Z}$ 22'16	
desc. node	5634 Mar 05 22:49	24° $\approx$ 54'26		direct	5635 Jan 30 00:13	22° $\mathbb{Z}$ 41'38	
	5634 Mar 09 16:33	0° $\mathbb{X}$		morning max el	5635 Feb 07 10:53	27° $\mathbb{Z}$ 34'17	21°06'09
	5634 Mar 29 12:36	0° $\mathbb{Y}$			5635 Feb 09 17:21	0° $\approx$	
morning set	5634 Mar 30 14:09	1° $\mathbb{Y}$ 44'02		desc. node	5635 Feb 20 19:50	14° $\approx$ 34'55	
max. Earth dist.	5634 Apr 04 13:10	9° $\mathbb{Y}$ 59'19	1.40539 AU		5635 Mar 03 06:19	0° $\mathbb{X}$	
				morning set	5635 Mar 10 02:01	10° $\mathbb{X}$ 31'56	
superior conj	5634 Apr 12 08:29	23° $\mathbb{Y}$ 37'59	-1°53'03	max. Earth dist.	5635 Mar 17 15:50	22° $\mathbb{X}$ 39'34	1.42571 AU
minimum elong	5634 Apr 12 13:27	24° $\mathbb{Y}$ 00'22	1°52'38		5635 Mar 22 02:15	0° $\mathbb{Y}$	
	5634 Apr 15 20:17	0° $\mathbb{B}$		superior conj	5635 Mar 24 20:27	4° $\mathbb{Y}$ 40'00	-2°07'34
evening rise	5634 Apr 22 10:56	12° $\mathbb{B}$ 22'28		minimum elong	5635 Mar 24 22:52	4° $\mathbb{Y}$ 50'20	2°07'31
asc. node	5634 Apr 26 20:08	20° $\mathbb{B}$ 33'04		evening rise	5635 Apr 05 09:21	24° $\mathbb{Y}$ 58'43	
	5634 May 02 07:29	0° $\mathbb{H}$			5635 Apr 08 04:27	0° $\mathbb{B}$	
evening max el	5634 May 08 14:18	8° $\mathbb{H}$ 12'55	18°21'39	asc. node	5635 Apr 13 17:11	9° $\mathbb{B}$ 38'31	
retrograde	5634 May 15 22:18	11° $\mathbb{H}$ 51'50		evening max el	5635 Apr 22 01:20	21° $\mathbb{B}$ 12'03	18°07'00
evening set	5634 May 18 06:21	11° $\mathbb{H}$ 30'36		retrograde	5635 Apr 28 16:49	24° $\mathbb{B}$ 35'36	
inferior conj	5634 May 25 14:10	6° $\mathbb{H}$ 54'16	2°00'00	evening set	5635 May 01 07:48	24° $\mathbb{B}$ 03'59	
minimum elong	5634 May 25 17:32	6° $\mathbb{H}$ 47'17	1°58'58	inferior conj	5635 May 07 22:55	19° $\mathbb{B}$ 06'56	2°54'38
min. Earth dist.	5634 May 29 00:34	4° $\mathbb{H}$ 04'52	0.58716 AU	minimum elong	5635 May 08 01:51	18° $\mathbb{B}$ 59'51	2°54'02
desc. node	5634 Jun 01 22:03	1° $\mathbb{H}$ 26'23		min. Earth dist.	5635 May 11 03:59	16° $\mathbb{B}$ 03'15	0.60924 AU
morning rise	5634 Jun 02 01:35	1° $\mathbb{H}$ 21'37		morning rise	5635 May 14 17:46	13° $\mathbb{B}$ 12'18	
	5634 Jun 05 13:28	30° $\mathbb{R}$ $\mathbb{B}$		desc. node	5635 May 19 19:05	11° $\mathbb{B}$ 07'08	
direct	5634 Jun 08 05:05	29° $\mathbb{B}$ 41'15		direct	5635 May 21 10:01	10° $\mathbb{B}$ 59'26	
	5634 Jun 10 21:46	0° $\mathbb{H}$		morning max el	5635 Jun 04 16:16	18° $\mathbb{B}$ 56'22	27°49'02
morning max el	5634 Jun 22 14:23	7° $\mathbb{H}$ 26'57	27°11'30		5635 Jun 14 00:25	0° $\mathbb{H}$	
	5634 Jul 09 13:19	0° $\mathbb{E}$			5635 Jul 02 08:18	0° $\mathbb{E}$	
morning set	5634 Jul 23 04:21	25° $\mathbb{E}$ 35'28		morning set	5635 Jul 07 09:15	10° $\mathbb{E}$ 01'58	
asc. node	5634 Jul 23 19:24	26° $\mathbb{E}$ 54'49		asc. node	5635 Jul 10 16:27	16° $\mathbb{E}$ 58'45	
	5634 Jul 25 06:06	0° $\mathbb{Q}$		max. Earth dist.	5635 Jul 13 09:29	22° $\mathbb{E}$ 51'10	1.32031 AU
superior conj	5634 Jul 30 05:38	10° $\mathbb{Q}$ 54'35	1°02'30	superior conj	5635 Jul 14 16:34	25° $\mathbb{E}$ 41'36	0°40'38
minimum elong	5634 Jul 30 03:25	10° $\mathbb{Q}$ 42'20	1°02'06	minimum elong	5635 Jul 14 14:52	25° $\mathbb{E}$ 32'14	0°40'16
max. Earth dist.	5634 Jul 29 23:15	10° $\mathbb{Q}$ 19'14	1.31887 AU		5635 Jul 16 15:31	0° $\mathbb{Q}$	
evening rise	5634 Aug 06 01:06	25° $\mathbb{Q}$ 46'23		evening rise	5635 Jul 21 11:56	10° $\mathbb{Q}$ 33'34	
	5634 Aug 08 01:36	0° $\mathbb{P}$			5635 Jul 31 09:17	0° $\mathbb{P}$	
	5634 Aug 25 06:44	0° $\mathbb{L}$		desc. node	5635 Aug 15 18:19	21° $\mathbb{P}$ 38'58	
desc. node	5634 Aug 28 21:17	4° $\mathbb{L}$ 47'32		evening max el	5635 Aug 17 00:27	22° $\mathbb{P}$ 53'39	25°08'23
evening max el	5634 Sep 04 07:09	11° $\mathbb{L}$ 52'12	26°25'36	retrograde	5635 Aug 30 22:28	29° $\mathbb{P}$ 55'51	
retrograde	5634 Sep 18 05:53	19° $\mathbb{L}$ 00'09		evening set	5635 Sep 05 14:05	28° $\mathbb{P}$ 43'01	
evening set	5634 Sep 24 21:31	17° $\mathbb{L}$ 10'49		min. Earth dist.	5635 Sep 10 11:59	26° $\mathbb{P}$ 01'00	0.57466 AU
min. Earth dist.	5634 Sep 28 20:40	14° $\mathbb{L}$ 35'53	0.59461 AU	inferior conj	5635 Sep 13 11:15	24° $\mathbb{P}$ 01'23	-5°18'09
inferior conj	5634 Oct 02 02:21	12° $\mathbb{L}$ 05'33	-4°47'41	minimum elong	5635 Sep 13 13:18	23° $\mathbb{P}$ 57'55	5°18'02
minimum elong	5634 Oct 02 08:10	11° $\mathbb{L}$ 54'13	4°46'36	morning rise	5635 Sep 21 14:47	19° $\mathbb{P}$ 49'35	
morning rise	5634 Oct 09 20:59	7° $\mathbb{L}$ 30'54		direct	5635 Sep 24 03:36	19° $\mathbb{P}$ 30'45	
direct	5634 Oct 12 05:02	7° $\mathbb{L}$ 11'36		morning max el	5635 Oct 03 01:56	23° $\mathbb{P}$ 44'24	19°05'23
asc. node	5634 Oct 19 18:41	10° $\mathbb{L}$ 46'37		asc. node	5635 Oct 06 15:44	27° $\mathbb{P}$ 45'41	
morning max el	5634 Oct 20 00:08	10° $\mathbb{L}$ 59'36	18°19'31		5635 Oct 08 07:00	0° $\mathbb{L}$	
	5634 Nov 01 13:23	0° $\mathbb{M}$		morning set	5635 Oct 19 20:48	20° $\mathbb{L}$ 38'37	

	5635 Oct 24 14:01	0°♄			5636 Sep 30 11:37	0°♄	
				morning set	5636 Oct 03 02:09	5°♄14'58	
superior conj	5635 Oct 28 03:28	6°♄56'58	1°31'01				
minimum elong	5635 Oct 28 06:10	7°♄10'01	1°30'47	superior conj	5636 Oct 10 17:31	20°♄53'14	1°40'54
max. Earth dist.	5635 Nov 03 21:42	19°♄33'47	1.38683 AU	minimum elong	5636 Oct 10 18:43	20°♄59'15	1°40'52
evening rise	5635 Nov 07 16:58	26°♄16'39			5636 Oct 15 08:23	0°♄	
	5635 Nov 09 21:13	0°♄		max. Earth dist.	5636 Oct 16 03:56	1°♄33'47	1.36634 AU
desc. node	5635 Nov 11 17:34	3°♄05'33		evening rise	5636 Oct 20 00:05	8°♄43'42	
	5635 Nov 29 12:44	0°♄		desc. node	5636 Oct 28 14:36	23°♄36'50	
evening max el	5635 Dec 13 03:57	16°♄27'36	24°40'56		5636 Nov 01 14:26	0°♄	
retrograde	5635 Dec 24 17:27	23°♄11'55			5636 Nov 24 11:45	0°♄	
evening set	5635 Dec 30 06:18	20°♄53'32		evening max el	5636 Nov 24 16:32	0°♄11'40	25°51'55
asc. node	5636 Jan 02 14:59	17°♄16'55		retrograde	5636 Dec 07 03:17	7°♄17'49	
min. Earth dist.	5636 Jan 03 20:36	15°♄41'12	0.67720 AU	evening set	5636 Dec 13 05:31	4°♄47'04	
inferior conj	5636 Jan 04 18:56	14°♄27'02	0°43'29	min. Earth dist.	5636 Dec 17 12:38	0°♄09'31	0.66968 AU
minimum elong	5636 Jan 04 17:54	14°♄30'28	0°43'06		5636 Dec 17 15:41	30°♄	
morning rise	5636 Jan 10 05:39	8°♄27'07		inferior conj	5636 Dec 18 22:09	28°♄24'02	-0°11'48
direct	5636 Jan 13 22:34	7°♄08'21		minimum elong	5636 Dec 18 22:27	28°♄23'04	0°11'39
morning max el	5636 Jan 21 10:38	11°♄22'15	19°54'56	transit middle	5636 Dec 18 22:27	28°♄23'04	0°11'39
	5636 Feb 04 13:54	0°♄		transit begin	5636 Dec 18 20:30	28°♄29'15	
desc. node	5636 Feb 07 16:51	4°♄39'17		transit end	5636 Dec 19 00:25	28°♄16'54	
morning set	5636 Feb 16 22:38	18°♄43'59		asc. node	5636 Dec 19 12:02	27°♄40'30	
	5636 Feb 24 04:21	0°♄		morning rise	5636 Dec 24 15:52	22°♄32'44	
max. Earth dist.	5636 Feb 28 02:28	6°♄12'22	1.44157 AU	direct	5636 Dec 27 21:20	21°♄33'03	
				morning max el	5637 Jan 03 18:06	25°♄20'13	18°58'32
superior conj	5636 Mar 04 07:07	14°♄33'57	-2°06'57		5637 Jan 07 18:50	0°♄	
minimum elong	5636 Mar 04 03:44	14°♄20'12	2°06'50	desc. node	5637 Jan 24 13:52	25°♄00'59	
	5636 Mar 13 14:20	0°♄		morning set	5637 Jan 26 04:42	27°♄32'19	
evening rise	5636 Mar 17 13:16	6°♄43'53			5637 Jan 27 18:33	0°♄	
asc. node	5636 Mar 30 14:14	28°♄13'29		max. Earth dist.	5637 Feb 09 18:37	20°♄20'03	1.45111 AU
	5636 Mar 31 20:27	0°♄					
evening max el	5636 Apr 04 14:16	4°♄28'26	18°11'28	superior conj	5637 Feb 11 19:07	23°♄30'54	-1°46'48
retrograde	5636 Apr 11 00:03	7°♄51'40		minimum elong	5637 Feb 11 10:15	22°♄55'57	1°46'03
evening set	5636 Apr 13 21:25	7°♄08'13			5637 Feb 15 21:27	0°♄	
inferior conj	5636 Apr 19 23:54	1°♄51'42	3°23'10	evening rise	5637 Feb 26 18:51	17°♄32'02	
minimum elong	5636 Apr 20 01:23	1°♄47'39	3°23'01		5637 Mar 06 10:40	0°♄	
	5636 Apr 21 16:48	30°♄		asc. node	5637 Mar 17 11:18	16°♄08'42	
min. Earth dist.	5636 Apr 22 16:19	28°♄57'20	0.63052 AU	evening max el	5637 Mar 19 02:18	17°♄55'26	18°34'24
morning rise	5636 Apr 26 04:07	25°♄44'20		retrograde	5637 Mar 25 15:35	21°♄31'18	
direct	5636 May 03 00:15	23°♄07'18		evening set	5637 Mar 28 19:22	20°♄35'08	
desc. node	5636 May 05 16:08	23°♄28'45		inferior conj	5637 Apr 03 13:02	15°♄00'57	3°31'25
	5636 May 15 19:46	0°♄		minimum elong	5637 Apr 03 12:58	15°♄01'08	3°31'25
morning max el	5636 May 16 23:34	1°♄07'46	27°48'37	min. Earth dist.	5637 Apr 05 14:11	12°♄33'47	0.64894 AU
	5636 Jun 07 04:16	0°♄		morning rise	5637 Apr 09 05:56	8°♄47'32	
morning set	5636 Jun 20 07:53	24°♄06'42		direct	5637 Apr 15 22:29	5°♄58'50	
	5636 Jun 23 04:58	0°♄		desc. node	5637 Apr 22 13:09	8°♄11'21	
max. Earth dist.	5636 Jun 25 14:56	5°♄05'12	1.32613 AU	morning max el	5637 Apr 29 09:33	13°♄52'44	27°13'14
asc. node	5636 Jun 26 13:29	7°♄05'43			5637 May 12 10:37	0°♄	
					5637 May 30 19:49	0°♄	
superior conj	5636 Jun 28 00:43	10°♄15'37	0°15'12	morning set	5637 Jun 03 21:29	7°♄41'58	
minimum elong	5636 Jun 27 24:00	10°♄11'42	0°15'01	max. Earth dist.	5637 Jun 08 11:36	16°♄50'59	1.33657 AU
behind sun begin	5636 Jun 27 22:13	10°♄02'04					
behind sun end	5636 Jun 28 01:47	10°♄21'21		superior conj	5637 Jun 12 04:08	24°♄31'15	-0°13'04
evening rise	5636 Jul 04 23:44	25°♄19'31		minimum elong	5637 Jun 12 04:49	24°♄34'52	0°12'57
	5636 Jul 07 05:09	0°♄		behind sun begin	5637 Jun 12 01:31	24°♄17'28	
	5636 Jul 25 09:56	0°♄		behind sun end	5637 Jun 12 08:07	24°♄52'16	
evening max el	5636 Jul 28 12:46	3°♄19'07	23°33'21	asc. node	5637 Jun 13 10:32	27°♄12'08	
desc. node	5636 Aug 01 15:22	6°♄45'18			5637 Jun 14 18:04	0°♄	
retrograde	5636 Aug 11 03:00	10°♄08'17		evening rise	5637 Jun 19 10:41	9°♄58'43	
evening set	5636 Aug 15 07:26	9°♄29'51			5637 Jun 29 21:04	0°♄	
min. Earth dist.	5636 Aug 21 22:29	6°♄23'11	0.55833 AU	evening max el	5637 Jul 10 04:02	13°♄41'25	21°56'41
inferior conj	5636 Aug 23 23:55	5°♄09'40	-5°09'57	desc. node	5637 Jul 19 12:23	19°♄32'40	
minimum elong	5636 Aug 23 19:26	5°♄16'21	5°09'30	retrograde	5637 Jul 22 20:14	19°♄58'39	
morning rise	5636 Sep 01 09:52	1°♄15'54		evening set	5637 Jul 25 14:30	19°♄41'35	
direct	5636 Sep 04 06:27	0°♄55'46		inferior conj	5637 Aug 03 21:01	15°♄38'34	-4°10'08
morning max el	5636 Sep 14 16:24	5°♄46'29	20°13'20	minimum elong	5637 Aug 03 12:09	15°♄51'00	4°07'55
asc. node	5636 Sep 22 12:46	15°♄40'02		min. Earth dist.	5637 Aug 03 08:22	15°♄56'19	0.54896 AU

morning rise	5637 Aug 12 11:19	11° $\Omega$ 48'16		morning rise	5638 Jul 23 05:48	21° $\mathfrak{G}$ 45'50	
direct	5637 Aug 15 18:12	11° $\Omega$ 24'25		direct	5638 Jul 27 03:54	21° $\mathfrak{G}$ 12'42	
morning max el	5637 Aug 27 18:43	17° $\Omega$ 02'24	21°41'37	morning max el	5638 Aug 09 11:32	27° $\mathfrak{G}$ 39'23	23°23'32
	5637 Sep 06 21:11	0° $\mathfrak{M}$			5638 Aug 11 19:20	0° $\Omega$	
asc. node	5637 Sep 09 09:48	4° $\mathfrak{M}$ 16'53		asc. node	5638 Aug 27 06:50	23° $\Omega$ 25'54	
morning set	5637 Sep 17 11:26	20° $\mathfrak{M}$ 01'55			5638 Aug 30 14:16	0° $\mathfrak{M}$	
	5637 Sep 22 04:49	0° $\underline{\mathfrak{A}}$		morning set	5638 Sep 01 22:47	4° $\mathfrak{M}$ 54'05	
superior conj	5637 Sep 24 17:01	5° $\underline{\mathfrak{A}}$ 16'47	1°43'02	superior conj	5638 Sep 08 22:50	19° $\mathfrak{M}$ 58'12	1°38'34
minimum elong	5637 Sep 24 16:46	5° $\underline{\mathfrak{A}}$ 15'29	1°43'02	minimum elong	5638 Sep 08 21:28	19° $\mathfrak{M}$ 50'51	1°38'30
max. Earth dist.	5637 Sep 28 16:05	13° $\underline{\mathfrak{A}}$ 25'50	1.34860 AU	max. Earth dist.	5638 Sep 11 13:08	25° $\mathfrak{M}$ 30'29	1.33477 AU
evening rise	5637 Oct 03 00:19	21° $\underline{\mathfrak{A}}$ 58'17			5638 Sep 13 16:42	0° $\underline{\mathfrak{A}}$	
	5637 Oct 07 07:59	0° $\mathfrak{M}$		evening rise	5638 Sep 16 13:33	5° $\underline{\mathfrak{A}}$ 49'31	
desc. node	5637 Oct 15 11:37	13° $\mathfrak{M}$ 53'19			5638 Sep 29 23:01	0° $\mathfrak{M}$	
	5637 Oct 26 09:19	0° $\mathfrak{X}$		desc. node	5638 Oct 02 08:38	3° $\mathfrak{M}$ 48'18	
evening max el	5637 Nov 07 05:17	13° $\mathfrak{X}$ 51'15	26°47'43	evening max el	5638 Oct 20 17:43	27° $\mathfrak{M}$ 17'14	27°21'04
retrograde	5637 Nov 20 07:48	21° $\mathfrak{X}$ 08'14			5638 Oct 23 20:01	0° $\mathfrak{X}$	
evening set	5637 Nov 26 22:16	18° $\mathfrak{X}$ 29'57		retrograde	5638 Nov 03 06:17	4° $\mathfrak{X}$ 35'33	
min. Earth dist.	5637 Nov 30 22:52	14° $\mathfrak{X}$ 27'30	0.65864 AU	evening set	5638 Nov 10 06:07	1° $\mathfrak{X}$ 57'10	
inferior conj	5637 Dec 02 19:57	12° $\mathfrak{X}$ 15'35	-1°12'10		5638 Nov 12 12:37	30° $\mathfrak{R}$ $\mathfrak{M}$	
minimum elong	5637 Dec 02 22:00	12° $\mathfrak{X}$ 09'36	1°11'17	min. Earth dist.	5638 Nov 14 01:08	28° $\mathfrak{M}$ 28'43	0.64420 AU
asc. node	5637 Dec 06 09:05	8° $\mathfrak{X}$ 26'50		inferior conj	5638 Nov 16 10:02	25° $\mathfrak{M}$ 56'56	-2°15'52
morning rise	5637 Dec 08 22:38	6° $\mathfrak{X}$ 35'22		minimum elong	5638 Nov 16 14:02	25° $\mathfrak{M}$ 46'15	2°14'17
direct	5637 Dec 11 18:39	5° $\mathfrak{X}$ 51'00		morning rise	5638 Nov 22 23:17	20° $\mathfrak{M}$ 30'48	
morning max el	5637 Dec 18 07:23	9° $\mathfrak{X}$ 22'24	18°18'17	asc. node	5638 Nov 23 06:06	20° $\mathfrak{M}$ 23'53	
	5638 Jan 01 18:45	0° $\mathfrak{Z}$		direct	5638 Nov 25 12:14	19° $\mathfrak{M}$ 57'45	
morning set	5638 Jan 06 13:48	7° $\mathfrak{Z}$ 43'54		morning max el	5638 Dec 01 23:52	23° $\mathfrak{M}$ 22'44	17°55'02
desc. node	5638 Jan 11 10:52	15° $\mathfrak{Z}$ 34'33			5638 Dec 07 06:44	0° $\mathfrak{X}$	
	5638 Jan 20 13:03	0° $\approx$		morning set	5638 Dec 19 03:59	19° $\mathfrak{X}$ 21'48	
superior conj	5638 Jan 21 22:21	2° $\approx$ 10'52	-1°08'48		5638 Dec 25 12:21	0° $\mathfrak{Z}$	
minimum elong	5638 Jan 21 14:11	1° $\approx$ 38'47	1°07'47	desc. node	5638 Dec 29 07:54	6° $\mathfrak{Z}$ 16'23	
max. Earth dist.	5638 Jan 23 13:22	4° $\approx$ 43'56	1.45346 AU	superior conj	5639 Jan 01 13:08	11° $\mathfrak{Z}$ 29'22	-0°22'27
evening rise	5638 Feb 07 01:23	27° $\approx$ 25'08		minimum elong	5639 Jan 01 10:29	11° $\mathfrak{Z}$ 18'42	0°22'03
	5638 Feb 08 16:55	0° $\mathfrak{X}$		max. Earth dist.	5639 Jan 06 08:29	19° $\mathfrak{Z}$ 09'27	1.44848 AU
greatest brilliancy	5638 Feb 18 03:43	14° $\mathfrak{X}$ 42'54	-0.8m		5639 Jan 13 06:42	0° $\approx$	
	5638 Mar 01 02:47	0° $\mathfrak{Y}$		evening rise	5639 Jan 17 15:19	6° $\approx$ 43'50	
evening max el	5638 Mar 02 11:06	1° $\mathfrak{Y}$ 27'16	19°14'46	greatest brilliancy	5639 Feb 01 09:22	28° $\approx$ 59'58	-0.6m
asc. node	5638 Mar 04 08:21	3° $\mathfrak{Y}$ 11'39			5639 Feb 02 01:49	0° $\mathfrak{X}$	
retrograde	5638 Mar 09 11:43	5° $\mathfrak{Y}$ 26'54		evening max el	5639 Feb 13 15:07	15° $\mathfrak{X}$ 01'30	20°10'39
evening set	5638 Mar 12 22:42	4° $\mathfrak{Y}$ 17'09		asc. node	5639 Feb 19 05:22	19° $\mathfrak{X}$ 08'29	
	5638 Mar 17 05:32	30° $\mathfrak{R}$ $\mathfrak{X}$		retrograde	5639 Feb 21 09:48	19° $\mathfrak{X}$ 33'46	
inferior conj	5638 Mar 18 10:44	28° $\mathfrak{X}$ 27'07	3°24'12	evening set	5639 Feb 25 05:10	18° $\mathfrak{X}$ 09'35	
minimum elong	5638 Mar 18 09:26	28° $\mathfrak{X}$ 31'18	3°24'04	inferior conj	5639 Mar 02 14:08	12° $\mathfrak{X}$ 05'45	3°04'50
min. Earth dist.	5638 Mar 19 20:35	26° $\mathfrak{X}$ 38'00	0.66347 AU	minimum elong	5639 Mar 02 12:03	12° $\mathfrak{X}$ 12'47	3°04'26
morning rise	5638 Mar 23 19:49	22° $\mathfrak{X}$ 11'53		min. Earth dist.	5639 Mar 03 09:45	10° $\mathfrak{X}$ 59'23	0.67373 AU
direct	5638 Mar 30 03:15	19° $\mathfrak{X}$ 24'32		morning rise	5639 Mar 07 18:43	5° $\mathfrak{X}$ 51'05	
desc. node	5638 Apr 09 10:10	24° $\mathfrak{X}$ 40'42		direct	5639 Mar 13 13:33	3° $\mathfrak{X}$ 15'56	
morning max el	5638 Apr 11 19:25	26° $\mathfrak{X}$ 57'34	26°10'12	morning max el	5639 Mar 25 04:11	10° $\mathfrak{X}$ 12'40	24°49'04
	5638 Apr 14 15:33	0° $\mathfrak{Y}$		desc. node	5639 Mar 27 07:11	12° $\mathfrak{X}$ 27'39	
	5638 May 06 01:50	0° $\mathfrak{Z}$			5639 Apr 09 20:49	0° $\mathfrak{Y}$	
morning set	5638 May 17 22:19	20° $\mathfrak{Z}$ 36'33			5639 Apr 28 17:49	0° $\mathfrak{Z}$	
max. Earth dist.	5638 May 21 20:53	28° $\mathfrak{Z}$ 06'13	1.35169 AU	morning set	5639 Apr 30 05:27	2° $\mathfrak{Z}$ 36'38	
	5638 May 22 20:11	0° $\mathfrak{I}$		max. Earth dist.	5639 May 03 20:11	9° $\mathfrak{Z}$ 07'58	1.37098 AU
superior conj	5638 May 27 00:21	8° $\mathfrak{I}$ 21'20	-0°43'00	superior conj	5639 May 10 10:18	21° $\mathfrak{Z}$ 37'42	-1°12'53
minimum elong	5638 May 27 02:44	8° $\mathfrak{I}$ 33'31	0°42'32	minimum elong	5639 May 10 14:24	21° $\mathfrak{Z}$ 57'40	1°12'13
asc. node	5638 May 31 07:34	17° $\mathfrak{I}$ 13'39			5639 May 14 15:46	0° $\mathfrak{I}$	
evening rise	5638 Jun 03 18:43	24° $\mathfrak{I}$ 24'40		asc. node	5639 May 18 04:36	7° $\mathfrak{I}$ 06'01	
	5638 Jun 06 12:41	0° $\mathfrak{G}$		evening rise	5639 May 18 21:30	8° $\mathfrak{I}$ 30'41	
evening max el	5638 Jun 22 05:44	24° $\mathfrak{G}$ 32'17	20°31'41		5639 May 30 20:17	0° $\mathfrak{G}$	
retrograde	5638 Jul 03 08:42	29° $\mathfrak{G}$ 59'40		evening max el	5639 Jun 04 20:06	6° $\mathfrak{G}$ 04'59	19°25'07
evening set	5638 Jul 05 08:53	29° $\mathfrak{G}$ 49'45		retrograde	5639 Jun 14 05:26	10° $\mathfrak{G}$ 40'42	
desc. node	5638 Jul 06 09:23	29° $\mathfrak{G}$ 37'27		evening set	5639 Jun 16 03:52	10° $\mathfrak{G}$ 29'51	
inferior conj	5638 Jul 14 14:28	25° $\mathfrak{G}$ 52'42	-2°25'44	desc. node	5639 Jun 23 06:25	7° $\mathfrak{G}$ 21'01	
minimum elong	5638 Jul 14 07:44	26° $\mathfrak{G}$ 02'24	2°23'22	inferior conj	5639 Jun 24 18:40	6° $\mathfrak{G}$ 23'11	-0°27'07
min. Earth dist.	5638 Jul 15 19:38	25° $\mathfrak{G}$ 10'33	0.54888 AU	minimum elong	5639 Jun 24 17:28	6° $\mathfrak{G}$ 25'08	0°26'42

min. Earth dist.	5639 Jun 27 09:07	4°♄42'28	0.55831 AU	morning rise	5640 Jun 12 15:36	12°♂16'49	
morning rise	5639 Jul 03 04:20	1°♄44'08		direct	5640 Jun 18 08:00	10°♂56'25	
direct	5639 Jul 07 23:00	0°♄52'30		morning max el	5640 Jul 02 17:01	18°♂30'43	26°33'57
morning max el	5639 Jul 22 00:48	7°♄58'49	25°06'24		5640 Jul 12 08:16	0°♄	
	5639 Aug 07 06:25	0°♂			5640 Jul 29 16:34	0°♂	
asc. node	5639 Aug 14 03:50	12°♂58'10		asc. node	5640 Jul 31 00:53	2°♂47'10	
morning set	5639 Aug 17 10:27	19°♂45'45		morning set	5640 Jul 31 20:52	4°♂32'11	
	5639 Aug 22 03:50	0°♂					
				superior conj	5640 Aug 07 20:05	19°♂43'01	1°13'17
superior conj	5639 Aug 24 08:31	4°♂48'59	1°28'25	minimum elong	5640 Aug 07 17:48	19°♂30'19	1°12'55
minimum elong	5639 Aug 24 06:27	4°♂37'41	1°28'11	max. Earth dist.	5640 Aug 08 04:02	20°♂26'54	1.31999 AU
max. Earth dist.	5639 Aug 25 18:06	7°♂52'33	1.32524 AU		5640 Aug 12 12:43	0°♂	
evening rise	5639 Aug 31 12:11	20°♂06'22		evening rise	5640 Aug 14 17:23	4°♂40'36	
	5639 Sep 05 11:52	0°♂			5640 Aug 28 04:29	0°♂	
desc. node	5639 Sep 19 05:40	23°♂11'53		desc. node	5640 Sep 05 02:41	11°♂51'19	
	5639 Sep 24 03:08	0°♂		evening max el	5640 Sep 14 08:30	22°♂31'54	26°56'55
evening max el	5639 Oct 03 03:43	10°♂15'11	27°25'33	retrograde	5640 Sep 28 05:46	29°♂42'15	
retrograde	5639 Oct 16 21:49	17°♂29'49		evening set	5640 Oct 05 05:28	27°♂34'50	
evening set	5639 Oct 24 01:52	15°♂01'05		min. Earth dist.	5640 Oct 08 22:42	24°♂55'59	0.60666 AU
min. Earth dist.	5639 Oct 27 17:22	12°♂02'24	0.62661 AU	inferior conj	5640 Oct 12 03:03	22°♂16'10	-4°19'13
inferior conj	5639 Oct 30 13:30	9°♂20'01	-3°19'59	minimum elong	5640 Oct 12 09:30	22°♂02'36	4°17'36
minimum elong	5639 Oct 30 19:15	9°♂06'15	3°18'03	morning rise	5640 Oct 19 15:34	17°♂28'44	
morning rise	5639 Nov 06 14:22	4°♂11'28		direct	5640 Oct 21 22:51	17°♂07'59	
direct	5639 Nov 08 22:55	3°♂46'08		asc. node	5640 Oct 27 00:08	18°♂52'50	
asc. node	5639 Nov 10 03:06	3°♂52'35		morning max el	5640 Oct 29 06:03	20°♂45'17	18°02'50
morning max el	5639 Nov 15 16:28	7°♂13'00	17°49'32		5640 Nov 05 04:53	0°♂	
	5639 Nov 30 12:52	0°♂		morning set	5640 Nov 13 23:35	15°♂38'02	
morning set	5639 Dec 01 17:23	2°♂06'19			5640 Nov 21 18:59	0°♂	
				superior conj	5640 Nov 23 21:28	3°♂45'42	0°56'31
superior conj	5639 Dec 13 04:20	21°♂59'55	0°21'24	minimum elong	5640 Nov 24 01:16	4°♂02'34	0°56'02
minimum elong	5639 Dec 13 06:22	22°♂08'29	0°21'07	max. Earth dist.	5640 Dec 01 12:58	16°♂55'10	1.41944 AU
desc. node	5639 Dec 16 04:54	27°♂02'22		desc. node	5640 Dec 02 01:56	17°♂49'07	
	5639 Dec 18 00:10	0°♂		evening rise	5640 Dec 07 02:02	25°♂58'41	
max. Earth dist.	5639 Dec 20 01:10	3°♂18'58	1.43668 AU		5640 Dec 09 14:53	0°♂	
evening rise	5639 Dec 28 02:30	16°♂03'01			5640 Dec 30 02:58	0°♂	
	5640 Jan 06 06:55	0°♂		evening max el	5641 Jan 09 07:04	12°♂13'51	22°36'10
evening max el	5640 Jan 27 13:37	28°♂36'52	21°19'10	retrograde	5641 Jan 19 03:50	18°♂05'35	
	5640 Jan 28 23:54	0°♂		asc. node	5641 Jan 22 23:24	16°♂50'04	
retrograde	5640 Feb 05 07:42	3°♂48'01		evening set	5641 Jan 23 20:21	16°♂10'39	
asc. node	5640 Feb 06 02:22	3°♂44'48		inferior conj	5641 Jan 29 05:01	9°♂47'46	1°57'49
evening set	5640 Feb 09 12:56	2°♂08'37		minimum elong	5641 Jan 29 02:48	9°♂55'28	1°57'05
	5640 Feb 11 17:20	30°♂		min. Earth dist.	5641 Jan 29 00:02	10°♂05'04	0.68165 AU
inferior conj	5640 Feb 14 20:54	25°♂53'37	2°35'34	morning rise	5641 Feb 03 09:09	3°♂38'40	
minimum elong	5640 Feb 14 18:31	26°♂01'52	2°34'55	direct	5641 Feb 07 23:04	1°♂45'11	
min. Earth dist.	5640 Feb 15 03:39	25°♂30'14	0.67970 AU	morning max el	5641 Feb 17 01:45	7°♂04'48	21°52'42
morning rise	5640 Feb 19 23:56	19°♂41'04		desc. node	5641 Feb 28 01:13	20°♂32'55	
direct	5640 Feb 25 04:25	17°♂25'07			5641 Mar 06 16:54	0°♂	
morning max el	5640 Mar 06 13:13	23°♂34'37	23°20'08	morning set	5641 Mar 21 16:27	22°♂57'17	
	5640 Mar 12 05:35	0°♂			5641 Mar 26 00:28	0°♂	
desc. node	5640 Mar 13 04:12	1°♂10'21		max. Earth dist.	5641 Mar 27 14:35	2°♂37'58	1.41439 AU
	5640 Apr 02 06:27	0°♂		superior conj	5641 Apr 04 07:04	15°♂48'05	-2°00'41
morning set	5640 Apr 10 13:03	13°♂27'08		minimum elong	5641 Apr 04 11:22	16°♂07'01	2°00'27
max. Earth dist.	5640 Apr 14 15:49	20°♂29'49	1.39274 AU		5641 Apr 12 03:56	0°♂	
	5640 Apr 19 23:42	0°♂		evening rise	5641 Apr 14 23:16	5°♂10'43	
superior conj	5640 Apr 22 06:08	4°♂10'35	-1°40'04	asc. node	5641 Apr 20 22:41	16°♂03'56	
minimum elong	5640 Apr 22 11:16	4°♂34'22	1°39'29		5641 Apr 30 05:41	0°♂	
evening rise	5640 May 01 16:13	22°♂09'15		evening max el	5641 May 01 05:32	1°♂02'03	18°13'00
asc. node	5640 May 04 01:38	26°♂44'46		retrograde	5641 May 08 05:19	4°♂32'54	
	5640 May 05 19:01	0°♂		evening set	5641 May 10 16:14	4°♂07'38	
evening max el	5640 May 17 21:11	18°♂17'52	18°38'58		5641 May 16 23:19	30°♂	
retrograde	5640 May 25 20:04	22°♂13'21		inferior conj	5641 May 17 16:28	29°♂22'20	2°26'42
evening set	5640 May 27 24:00	21°♂56'56		minimum elong	5641 May 17 19:51	29°♂14'48	2°25'49
inferior conj	5640 Jun 04 18:52	17°♂31'58	1°14'43	min. Earth dist.	5641 May 21 01:48	26°♂23'40	0.59641 AU
minimum elong	5640 Jun 04 21:27	17°♂27'03	1°13'49	morning rise	5641 May 24 20:42	23°♂38'40	
min. Earth dist.	5640 Jun 08 02:28	15°♂02'19	0.57521 AU	desc. node	5641 May 27 00:29	22°♂34'34	
desc. node	5640 Jun 09 03:27	14°♂18'36					

direct	5641 May 31 06:26	21°♄44'02		morning rise	5642 May 06 20:54	5°♄48'12	
morning max el	5641 Jun 14 15:23	29°♄36'09	27°32'08	direct	5642 May 13 15:54	3°♄23'17	
	5641 Jun 15 00:59	0°♄		desc. node	5642 May 13 21:32	3°♄23'27	
	5641 Jul 06 07:00	0°♄		morning max el	5642 May 27 19:48	11°♄23'35	27°53'20
morning set	5641 Jul 16 04:19	19°♄07'12			5642 Jun 11 10:54	0°♄	
asc. node	5641 Jul 17 21:56	22°♄46'39			5642 Jun 28 14:16	0°♄	
	5641 Jul 21 06:01	0°♄		morning set	5642 Jun 30 06:49	3°♄24'46	
max. Earth dist.	5641 Jul 22 15:08	3°♄02'03	1.31892 AU	asc. node	5642 Jul 04 18:59	12°♄52'01	
				max. Earth dist.	5642 Jul 05 23:32	15°♄25'53	1.32218 AU
superior conj	5641 Jul 23 07:44	4°♄33'42	0°53'43	superior conj	5642 Jul 07 17:43	19°♄15'28	0°30'15
minimum elong	5641 Jul 23 05:41	4°♄22'20	0°53'18	minimum elong	5642 Jul 07 16:22	19°♄08'07	0°29'56
evening rise	5641 Jul 30 02:42	19°♄24'12			5642 Jul 12 15:34	0°♄	
	5641 Aug 04 06:46	0°♄		evening rise	5642 Jul 14 14:09	4°♄10'49	
desc. node	5641 Aug 22 23:44	29°♄28'42			5642 Jul 28 07:39	0°♄	
	5641 Aug 23 10:34	0°♄		evening max el	5642 Aug 08 20:22	14°♄42'16	24°29'16
evening max el	5641 Aug 27 05:53	3°♄59'29	25°55'46	desc. node	5642 Aug 09 20:46	15°♄39'03	
retrograde	5641 Sep 10 04:56	11°♄06'08		retrograde	5642 Aug 22 16:50	21°♄40'56	
evening set	5641 Sep 16 12:02	9°♄31'27		evening set	5642 Aug 27 18:04	20°♄43'59	
min. Earth dist.	5641 Sep 20 18:24	6°♄55'58	0.58587 AU	min. Earth dist.	5642 Sep 02 07:30	17°♄53'05	0.56698 AU
inferior conj	5641 Sep 23 23:12	4°♄36'10	-5°04'13	inferior conj	5642 Sep 04 23:21	16°♄11'35	-5°20'28
minimum elong	5641 Sep 24 03:52	4°♄27'36	5°03'36	minimum elong	5642 Sep 04 22:46	16°♄12'29	5°20'28
morning rise	5641 Oct 01 22:00	0°♄11'45		morning rise	5642 Sep 13 05:52	12°♄08'21	
	5641 Oct 02 20:38	30°♄		direct	5642 Sep 15 21:26	11°♄49'18	
direct	5641 Oct 04 07:30	29°♄53'01		morning max el	5642 Sep 25 10:28	16°♄17'54	19°31'38
	5641 Oct 05 17:49	0°♄		asc. node	5642 Sep 30 18:15	22°♄36'57	
morning max el	5641 Oct 12 13:12	3°♄50'29	18°36'24		5642 Oct 05 09:28	0°♄	
asc. node	5641 Oct 13 21:11	5°♄12'50		morning set	5642 Oct 12 19:40	14°♄10'00	
morning set	5641 Oct 28 17:36	29°♄42'52					
	5641 Oct 28 21:08	0°♄		superior conj	5642 Oct 20 19:05	0°♄09'17	1°36'13
superior conj	5641 Nov 06 12:12	16°♄34'08	1°21'16	minimum elong	5642 Oct 20 21:10	0°♄19'32	1°36'06
minimum elong	5641 Nov 06 15:37	16°♄50'10	1°20'55		5642 Oct 20 17:11	0°♄	
	5641 Nov 13 22:23	0°♄		max. Earth dist.	5642 Oct 27 00:24	12°♄01'43	1.37786 AU
max. Earth dist.	5641 Nov 13 19:36	29°♄47'49	1.39898 AU	evening rise	5642 Oct 30 18:26	18°♄48'34	
evening rise	5641 Nov 17 22:57	6°♄53'04		desc. node	5642 Nov 05 19:59	29°♄10'31	
desc. node	5641 Nov 18 22:58	8°♄33'16			5642 Nov 06 08:00	0°♄	
	5641 Dec 02 16:33	0°♄			5642 Nov 26 21:54	0°♄	
evening max el	5641 Dec 22 21:11	25°♄54'28	23°56'12	evening max el	5642 Dec 05 10:01	9°♄38'32	25°12'35
	5641 Dec 27 15:37	0°♄		retrograde	5642 Dec 17 09:26	16°♄33'40	
retrograde	5642 Jan 02 20:48	2°♄22'37		evening set	5642 Dec 23 03:53	14°♄09'54	
evening set	5642 Jan 08 01:53	0°♄12'31		min. Earth dist.	5642 Dec 27 15:06	9°♄11'59	0.67441 AU
	5642 Jan 08 07:39	30°♄		asc. node	5642 Dec 27 17:30	9°♄04'11	
asc. node	5642 Jan 09 20:27	28°♄27'48		inferior conj	5642 Dec 28 18:04	7°♄44'09	0°20'45
min. Earth dist.	5642 Jan 12 20:39	24°♄40'22	0.67982 AU	minimum elong	5642 Dec 28 17:33	7°♄45'50	0°20'34
inferior conj	5642 Jan 13 12:42	23°♄45'53	1°12'37	morning rise	5643 Jan 03 07:29	1°♄47'19	
minimum elong	5642 Jan 13 11:06	23°♄51'19	1°12'01	direct	5643 Jan 06 19:19	0°♄37'00	
morning rise	5642 Jan 18 20:20	17°♄41'51		morning max el	5643 Jan 13 23:58	4°♄38'17	19°28'56
direct	5642 Jan 22 20:29	16°♄10'55		greatest brilliancy	5643 Jan 27 01:43	21°♄57'04	-0.7m
morning max el	5642 Jan 30 20:55	20°♄46'14	20°34'09		5643 Feb 01 09:36	0°♄	
	5642 Feb 07 13:13	0°♄		desc. node	5643 Feb 01 19:15	0°♄36'48	
desc. node	5642 Feb 14 22:15	10°♄24'36		morning set	5643 Feb 07 16:44	9°♄40'22	
	5642 Feb 27 22:02	0°♄		max. Earth dist.	5643 Feb 20 09:06	29°♄28'15	1.44651 AU
morning set	5642 Feb 28 19:19	1°♄22'27			5643 Feb 20 17:08	0°♄	
max. Earth dist.	5642 Mar 09 20:14	15°♄40'15	1.43310 AU	superior conj	5643 Feb 24 08:37	5°♄48'08	-2°00'53
superior conj	5642 Mar 16 08:31	26°♄21'18	-2°09'30	minimum elong	5643 Feb 24 02:29	5°♄23'34	2°00'32
minimum elong	5642 Mar 16 08:48	26°♄22'29	2°09'30	evening rise	5643 Mar 10 09:05	28°♄46'43	
	5642 Mar 18 12:36	0°♄			5643 Mar 11 02:35	0°♄	
evening rise	5642 Mar 28 14:24	17°♄26'13		asc. node	5643 Mar 25 16:47	23°♄16'35	
	5642 Apr 04 19:21	0°♄		evening max el	5643 Mar 29 06:41	27°♄31'09	18°19'04
asc. node	5642 Apr 07 19:44	4°♄57'23			5643 Apr 01 09:25	0°♄	
evening max el	5642 Apr 14 17:46	14°♄09'20	18°06'35	retrograde	5643 Apr 04 16:47	0°♄57'55	
retrograde	5642 Apr 21 05:41	17°♄31'02		evening set	5643 Apr 07 16:55	0°♄09'05	
evening set	5642 Apr 23 23:21	16°♄54'39			5643 Apr 07 23:27	30°♄	
inferior conj	5642 Apr 30 08:38	11°♄49'25	3°09'32	inferior conj	5643 Apr 13 15:14	24°♄45'02	3°28'48
minimum elong	5642 Apr 30 11:01	11°♄43'22	3°09'08	minimum elong	5643 Apr 13 16:03	24°♄42'45	3°28'44
min. Earth dist.	5642 May 03 09:03	8°♄46'42	0.61857 AU	min. Earth dist.	5643 Apr 16 01:22	22°♄00'26	0.63886 AU

morning rise	5643 Apr 19 14:14	18° $\Upsilon$ 34'43		retrograde	5644 Mar 18 10:37	14° $\Upsilon$ 44'58	
direct	5643 Apr 26 09:52	15° $\Upsilon$ 50'52		evening set	5644 Mar 21 17:28	13° $\Upsilon$ 42'54	
desc. node	5643 Apr 30 18:32	16° $\Upsilon$ 48'42		inferior conj	5644 Mar 27 08:22	8° $\Upsilon$ 01'36	3°30'01
morning max el	5643 May 10 04:19	23° $\Upsilon$ 49'35	27°37'23	minimum elong	5644 Mar 27 07:44	8° $\Upsilon$ 03'35	3°29'58
	5643 May 15 17:00	0° $\mathcal{B}$		min. Earth dist.	5644 Mar 29 02:49	5° $\Upsilon$ 50'03	0.65568 AU
	5643 Jun 04 19:12	0° $\Pi$		morning rise	5644 Apr 01 21:33	1° $\Upsilon$ 47'16	
morning set	5643 Jun 14 01:59	17° $\Pi$ 17'58			5644 Apr 04 10:35	30° $\mathcal{R}$ $\mathcal{H}$	
max. Earth dist.	5643 Jun 19 01:32	27° $\Pi$ 28'14	1.32998 AU	direct	5644 Apr 08 10:47	28° $\mathcal{H}$ 57'55	
	5643 Jun 20 06:21	0° $\mathcal{E}$			5644 Apr 12 18:59	0° $\Upsilon$	
asc. node	5643 Jun 21 16:02	2° $\mathcal{E}$ 59'16		desc. node	5644 Apr 16 15:33	2° $\Upsilon$ 20'26	
				morning max el	5644 Apr 21 14:26	6° $\Upsilon$ 43'54	26°49'18
superior conj	5643 Jun 22 00:09	3° $\mathcal{E}$ 42'43	0°03'31		5644 May 09 12:56	0° $\mathcal{B}$	
minimum elong	5643 Jun 21 23:58	3° $\mathcal{E}$ 41'47	0°03'27	morning set	5644 May 27 10:36	0° $\Pi$ 36'48	
behind sun begin	5643 Jun 21 18:42	3° $\mathcal{E}$ 13'36			5644 May 27 02:53	0° $\Pi$	
behind sun end	5643 Jun 22 05:14	4° $\mathcal{E}$ 10'00		max. Earth dist.	5644 May 31 17:43	9° $\Pi$ 01'11	1.34248 AU
evening rise	5643 Jun 29 01:50	18° $\mathcal{E}$ 54'50					
	5643 Jul 04 12:13	0° $\mathcal{Q}$		superior conj	5644 Jun 05 00:47	17° $\Pi$ 48'05	-0°25'38
evening max el	5643 Jul 21 09:06	25° $\mathcal{Q}$ 02'56	22°51'35	minimum elong	5644 Jun 05 02:10	17° $\Pi$ 55'17	0°25'22
desc. node	5643 Jul 27 17:48	29° $\mathcal{Q}$ 50'47		asc. node	5644 Jun 07 13:03	23° $\Pi$ 03'53	
	5643 Jul 28 00:57	0° $\mathcal{M}$			5644 Jun 10 19:54	0° $\mathcal{E}$	
retrograde	5643 Aug 03 15:51	1° $\mathcal{M}$ 40'23		evening rise	5644 Jun 12 11:47	3° $\mathcal{E}$ 29'09	
evening set	5643 Aug 07 04:35	1° $\mathcal{M}$ 13'09			5644 Jun 27 09:08	0° $\mathcal{Q}$	
	5643 Aug 10 14:58	30° $\mathcal{R}$ $\mathcal{Q}$		evening max el	5644 Jul 02 04:05	5° $\mathcal{Q}$ 33'48	21°18'29
min. Earth dist.	5643 Aug 14 17:26	27° $\mathcal{Q}$ 51'52	0.55330 AU	desc. node	5644 Jul 13 14:50	11° $\mathcal{Q}$ 30'18	
inferior conj	5643 Aug 16 04:27	27° $\mathcal{Q}$ 01'36	-4°51'10	retrograde	5644 Jul 14 05:30	11° $\mathcal{Q}$ 31'11	
minimum elong	5643 Aug 15 21:27	27° $\mathcal{Q}$ 11'41	4°50'00	evening set	5644 Jul 16 14:00	11° $\mathcal{Q}$ 18'22	
morning rise	5643 Aug 24 16:26	23° $\mathcal{Q}$ 11'21		inferior conj	5644 Jul 25 22:07	7° $\mathcal{Q}$ 19'36	-3°29'50
direct	5643 Aug 27 17:16	22° $\mathcal{Q}$ 49'51		minimum elong	5644 Jul 25 13:23	7° $\mathcal{Q}$ 31'51	3°27'12
morning max el	5643 Sep 07 19:36	28° $\mathcal{Q}$ 00'03	20°48'39	min. Earth dist.	5644 Jul 26 03:18	7° $\mathcal{Q}$ 12'21	0.54775 AU
	5643 Sep 09 19:07	0° $\mathcal{M}$		morning rise	5644 Aug 03 13:32	3° $\mathcal{Q}$ 25'13	
asc. node	5643 Sep 17 15:17	10° $\mathcal{M}$ 50'57		direct	5644 Aug 07 02:21	2° $\mathcal{Q}$ 58'18	
morning set	5643 Sep 27 02:59	28° $\mathcal{M}$ 51'54		morning max el	5644 Aug 19 17:11	8° $\mathcal{Q}$ 56'41	22°24'00
	5643 Sep 27 16:11	0° $\mathcal{L}$		asc. node	5644 Sep 03 12:18	29° $\mathcal{Q}$ 42'13	
					5644 Sep 03 16:10	0° $\mathcal{M}$	
superior conj	5643 Oct 04 13:35	14° $\mathcal{L}$ 18'24	1°42'40	morning set	5644 Sep 10 13:22	13° $\mathcal{M}$ 41'27	
minimum elong	5643 Oct 04 14:09	14° $\mathcal{L}$ 21'15	1°42'40				
max. Earth dist.	5643 Oct 09 08:56	23° $\mathcal{L}$ 56'52	1.35840 AU	superior conj	5644 Sep 17 16:05	28° $\mathcal{M}$ 50'01	1°41'53
	5643 Oct 12 12:34	0° $\mathcal{M}$		minimum elong	5644 Sep 17 15:18	28° $\mathcal{M}$ 45'56	1°41'52
evening rise	5643 Oct 13 09:24	1° $\mathcal{M}$ 37'33			5644 Sep 18 05:19	0° $\mathcal{L}$	
desc. node	5643 Oct 23 17:01	19° $\mathcal{M}$ 36'26		max. Earth dist.	5644 Sep 21 00:59	5° $\mathcal{L}$ 53'14	1.34221 AU
	5643 Oct 30 09:21	0° $\mathcal{J}$		evening rise	5644 Sep 25 15:36	15° $\mathcal{L}$ 08'15	
evening max el	5643 Nov 17 22:54	23° $\mathcal{J}$ 22'30	26°17'57		5644 Oct 03 17:13	0° $\mathcal{M}$	
	5643 Nov 27 12:21	0° $\mathcal{Z}$		desc. node	5644 Oct 09 14:04	9° $\mathcal{M}$ 44'33	
retrograde	5643 Nov 30 16:53	0° $\mathcal{Z}$ 33'38			5644 Oct 24 01:37	0° $\mathcal{J}$	
	5643 Dec 03 16:54	30° $\mathcal{R}$ $\mathcal{J}$		evening max el	5644 Oct 30 11:39	6° $\mathcal{J}$ 57'10	27°05'00
evening set	5643 Dec 07 00:34	27° $\mathcal{J}$ 59'12		retrograde	5644 Nov 12 18:42	14° $\mathcal{J}$ 15'08	
min. Earth dist.	5643 Dec 11 04:57	23° $\mathcal{J}$ 36'31	0.66549 AU	evening set	5644 Nov 19 13:50	11° $\mathcal{J}$ 35'36	
inferior conj	5643 Dec 12 19:15	21° $\mathcal{J}$ 39'25	-0°36'50	min. Earth dist.	5644 Nov 23 11:54	7° $\mathcal{J}$ 48'10	0.65296 AU
minimum elong	5643 Dec 12 20:15	21° $\mathcal{J}$ 36'21	0°36'23	inferior conj	5644 Nov 25 14:03	5° $\mathcal{J}$ 26'54	-1°38'54
asc. node	5643 Dec 14 14:32	19° $\mathcal{J}$ 30'30		minimum elong	5644 Nov 25 16:55	5° $\mathcal{J}$ 18'49	1°37'42
morning rise	5643 Dec 18 16:33	15° $\mathcal{J}$ 52'19		asc. node	5644 Nov 30 11:32	0° $\mathcal{J}$ 42'06	
direct	5643 Dec 21 17:50	14° $\mathcal{J}$ 59'27		morning rise	5644 Dec 01 21:04	29° $\mathcal{M}$ 52'28	
morning max el	5643 Dec 28 10:07	18° $\mathcal{J}$ 38'20	18°39'18		5644 Dec 01 15:03	30° $\mathcal{R}$ $\mathcal{M}$	
	5644 Jan 06 03:56	0° $\mathcal{Z}$		direct	5644 Dec 04 13:52	29° $\mathcal{M}$ 13'19	
morning set	5644 Jan 18 09:11	19° $\mathcal{Z}$ 01'23			5644 Dec 07 13:20	0° $\mathcal{J}$	
desc. node	5644 Jan 19 16:15	21° $\mathcal{Z}$ 03'56		morning max el	5644 Dec 11 01:09	2° $\mathcal{J}$ 40'31	18°06'20
	5644 Jan 25 08:25	0° $\approx$		morning set	5644 Dec 29 07:09	29° $\mathcal{J}$ 51'36	
max. Earth dist.	5644 Feb 03 03:10	13° $\approx$ 46'24	1.45312 AU		5644 Dec 29 09:12	0° $\mathcal{Z}$	
				desc. node	5645 Jan 05 13:16	11° $\mathcal{Z}$ 41'36	
superior conj	5644 Feb 03 14:27	14° $\approx$ 30'39	-1°32'24				
minimum elong	5644 Feb 03 04:58	13° $\approx$ 53'28	1°31'27	superior conj	5645 Jan 12 20:18	23° $\mathcal{Z}$ 20'51	-0°49'27
	5644 Feb 13 10:23	0° $\mathcal{H}$		minimum elong	5645 Jan 12 14:15	22° $\mathcal{Z}$ 56'54	0°48'37
evening rise	5644 Feb 19 04:32	9° $\mathcal{H}$ 09'53		max. Earth dist.	5645 Jan 15 22:53	28° $\mathcal{Z}$ 14'50	1.45224 AU
greatest brilliancy	5644 Feb 27 04:01	21° $\mathcal{H}$ 54'49	-0.9m		5645 Jan 17 01:41	0° $\approx$	
	5644 Mar 03 08:51	0° $\Upsilon$		evening rise	5645 Jan 29 02:51	18° $\approx$ 45'32	
evening max el	5644 Mar 11 17:36	11° $\Upsilon$ 00'33	18°49'34		5645 Feb 05 09:34	0° $\mathcal{H}$	
asc. node	5644 Mar 11 13:48	10° $\Upsilon$ 50'51		greatest brilliancy	5645 Feb 11 02:41	8° $\mathcal{H}$ 41'04	-0.7m



evening max el	5645 Feb 23 00:27	24° $\text{K}$ 33'32	19°36'44	evening max el	5646 Feb 06 02:03	8° $\text{K}$ 07'47	20°38'26
asc. node	5645 Feb 26 10:49	27° $\text{K}$ 27'40		asc. node	5646 Feb 13 07:50	12° $\text{K}$ 51'57	
retrograde	5645 Mar 02 08:01	28° $\text{K}$ 46'18		retrograde	5646 Feb 14 06:22	12° $\text{K}$ 56'39	
evening set	5645 Mar 05 22:24	27° $\text{K}$ 30'23		evening set	5646 Feb 18 05:39	11° $\text{K}$ 26'11	
inferior conj	5645 Mar 11 08:49	21° $\text{K}$ 33'54	3°17'19	inferior conj	5646 Feb 23 13:57	5° $\text{K}$ 17'06	2°53'31
minimum elong	5645 Mar 11 07:08	21° $\text{K}$ 39'28	3°17'04	minimum elong	5646 Feb 23 11:41	5° $\text{K}$ 24'52	2°53'02
min. Earth dist.	5645 Mar 12 12:22	20° $\text{K}$ 02'57	0.66833 AU	min. Earth dist.	5646 Feb 24 03:57	4° $\text{K}$ 29'04	0.67673 AU
morning rise	5645 Mar 16 15:37	15° $\text{K}$ 18'36			5646 Feb 27 18:11	30° $\text{R}$ $\approx$	
direct	5645 Mar 22 17:51	12° $\text{K}$ 35'39		morning rise	5646 Feb 28 17:30	29° $\approx$ 02'52	
desc. node	5645 Apr 03 12:32	19° $\text{K}$ 26'07		direct	5646 Mar 06 06:16	26° $\approx$ 35'15	
morning max el	5645 Apr 04 00:06	19° $\text{K}$ 55'04	25°37'22		5646 Mar 13 20:02	0° $\text{K}$	
	5645 Apr 12 15:03	0° $\text{Y}$		morning max el	5646 Mar 17 08:48	3° $\text{K}$ 13'37	24°11'34
	5645 May 02 15:58	0° $\text{B}$		desc. node	5646 Mar 21 09:33	7° $\text{K}$ 38'59	
morning set	5645 May 10 04:35	13° $\text{B}$ 10'10			5646 Apr 06 19:26	0° $\text{Y}$	
max. Earth dist.	5645 May 13 22:41	20° $\text{B}$ 09'12	1.35948 AU	morning set	5646 Apr 22 02:29	24° $\text{Y}$ 42'39	
	5645 May 19 00:05	0° $\text{II}$			5646 Apr 25 02:42	0° $\text{B}$	
				max. Earth dist.	5646 Apr 25 19:11	1° $\text{B}$ 13'43	1.38006 AU
superior conj	5645 May 19 17:01	1° $\text{II}$ 24'38	-0°55'48	superior conj	5646 May 02 21:28	14° $\text{B}$ 23'21	-1°24'57
minimum elong	5645 May 19 20:10	1° $\text{II}$ 40'23	0°55'15	minimum elong	5646 May 03 02:08	14° $\text{B}$ 45'40	1°24'17
asc. node	5645 May 25 10:05	13° $\text{II}$ 02'00			5646 May 10 20:53	0° $\text{II}$	
evening rise	5645 May 27 17:55	17° $\text{II}$ 47'39		evening rise	5646 May 11 17:39	1° $\text{II}$ 42'33	
	5645 Jun 02 23:20	0° $\text{B}$		asc. node	5646 May 12 07:07	2° $\text{II}$ 48'52	
evening max el	5645 Jun 14 11:03	16° $\text{B}$ 41'09	20°00'50	evening max el	5646 May 28 06:22	28° $\text{II}$ 31'35	19°02'59
retrograde	5645 Jun 24 20:19	21° $\text{B}$ 46'27			5646 May 29 22:11	0° $\text{B}$	
evening set	5645 Jun 26 18:06	21° $\text{B}$ 36'53		retrograde	5646 Jun 05 23:56	2° $\text{B}$ 48'19	
desc. node	5645 Jun 30 11:49	20° $\text{B}$ 28'19		evening set	5646 Jun 08 00:07	2° $\text{B}$ 35'41	
inferior conj	5645 Jul 05 18:33	17° $\text{B}$ 36'57	-1°34'58		5646 Jun 13 20:00	30° $\text{R}$ $\text{II}$	
minimum elong	5645 Jul 05 14:08	17° $\text{B}$ 43'37	1°33'21	inferior conj	5646 Jun 16 06:39	28° $\text{II}$ 22'13	0°19'19
min. Earth dist.	5645 Jul 07 15:24	16° $\text{B}$ 29'28	0.55180 AU	minimum elong	5646 Jun 16 07:26	28° $\text{II}$ 20'51	0°19'00
morning rise	5645 Jul 14 08:26	13° $\text{B}$ 17'32		desc. node	5646 Jun 17 08:49	27° $\text{II}$ 36'46	
direct	5645 Jul 18 14:24	12° $\text{B}$ 38'07		min. Earth dist.	5646 Jun 19 06:39	26° $\text{II}$ 18'28	0.56474 AU
morning max el	5645 Aug 01 07:50	19° $\text{B}$ 23'06	24°08'12	morning rise	5646 Jun 24 11:28	23° $\text{II}$ 27'03	
	5645 Aug 10 05:43	0° $\text{Q}$		direct	5646 Jun 29 15:36	22° $\text{II}$ 24'04	
asc. node	5645 Aug 21 09:20	19° $\text{Q}$ 01'39		morning max el	5646 Jul 13 21:48	29° $\text{II}$ 44'41	25°46'27
morning set	5645 Aug 26 01:01	28° $\text{Q}$ 33'35			5646 Jul 14 04:08	0° $\text{B}$	
	5645 Aug 26 17:16	0° $\text{M}$			5646 Aug 03 20:43	0° $\text{Q}$	
superior conj	5645 Sep 01 23:48	13° $\text{M}$ 35'56	1°34'55	asc. node	5646 Aug 08 06:23	8° $\text{Q}$ 41'44	
minimum elong	5645 Sep 01 22:05	13° $\text{M}$ 26'37	1°34'46	morning set	5646 Aug 10 12:22	13° $\text{Q}$ 23'34	
max. Earth dist.	5645 Sep 04 01:30	18° $\text{M}$ 04'04	1.33015 AU	superior conj	5646 Aug 17 10:33	28° $\text{Q}$ 29'06	1°22'35
evening rise	5645 Sep 09 09:12	29° $\text{M}$ 10'44		minimum elong	5646 Aug 17 08:20	28° $\text{Q}$ 16'53	1°22'17
	5645 Sep 09 18:58	0° $\text{A}$			5646 Aug 18 03:05	0° $\text{M}$	
desc. node	5645 Sep 26 11:06	29° $\text{A}$ 27'06		max. Earth dist.	5646 Aug 18 08:49	0° $\text{M}$ 31'29	1.32243 AU
	5645 Sep 26 19:47	0° $\text{M}$		evening rise	5646 Aug 24 10:57	13° $\text{M}$ 36'05	
evening max el	5645 Oct 12 23:04	20° $\text{M}$ 11'27	27°26'45		5646 Sep 01 20:52	0° $\text{A}$	
retrograde	5645 Oct 26 14:27	27° $\text{M}$ 29'17		desc. node	5646 Sep 13 08:07	18° $\text{A}$ 33'48	
evening set	5645 Nov 02 16:58	24° $\text{M}$ 53'16			5646 Sep 22 10:34	0° $\text{M}$	
min. Earth dist.	5645 Nov 06 09:56	21° $\text{M}$ 38'36	0.63702 AU	evening max el	5646 Sep 25 07:11	2° $\text{M}$ 53'29	27°17'36
inferior conj	5645 Nov 08 23:56	19° $\text{M}$ 00'37	-2°43'19	retrograde	5646 Oct 09 03:17	10° $\text{M}$ 06'59	
minimum elong	5645 Nov 09 04:45	18° $\text{M}$ 48'20	2°41'31	evening set	5646 Oct 16 06:30	7° $\text{M}$ 45'52	
morning rise	5645 Nov 15 18:06	13° $\text{M}$ 41'53		min. Earth dist.	5646 Oct 19 21:47	4° $\text{M}$ 57'02	0.61824 AU
asc. node	5645 Nov 17 08:34	13° $\text{M}$ 16'09		inferior conj	5646 Oct 22 21:58	2° $\text{M}$ 13'42	-3°46'14
direct	5645 Nov 18 04:45	13° $\text{M}$ 12'38		minimum elong	5646 Oct 23 04:13	1° $\text{M}$ 59'30	3°44'20
morning max el	5645 Nov 24 18:07	16° $\text{M}$ 37'26	17°50'33		5646 Oct 25 11:32	30° $\text{R}$ $\text{A}$	
	5645 Dec 04 07:13	0° $\text{X}$		morning rise	5646 Oct 30 03:52	27° $\text{A}$ 13'46	
morning set	5645 Dec 11 08:00	11° $\text{X}$ 59'45		direct	5646 Nov 01 11:19	26° $\text{A}$ 50'52	
	5645 Dec 21 22:59	0° $\text{B}$		asc. node	5646 Nov 04 05:37	27° $\text{A}$ 24'48	
desc. node	5645 Dec 23 10:18	2° $\text{B}$ 25'28			5646 Nov 08 00:56	0° $\text{M}$	
superior conj	5645 Dec 23 20:42	3° $\text{B}$ 08'04	-0°03'05	morning max el	5646 Nov 08 09:55	0° $\text{M}$ 21'32	17°52'49
minimum elong	5645 Dec 23 20:22	3° $\text{B}$ 06'43	0°03'00	morning set	5646 Nov 24 05:19	25° $\text{M}$ 06'37	
behind sun begin	5645 Dec 23 10:46	2° $\text{B}$ 27'20			5646 Nov 26 22:15	0° $\text{X}$	
behind sun end	5645 Dec 24 05:59	3° $\text{B}$ 46'02		superior conj	5646 Dec 04 23:18	14° $\text{X}$ 11'47	0°37'32
max. Earth dist.	5645 Dec 29 16:58	12° $\text{B}$ 34'16	1.44413 AU	minimum elong	5646 Dec 05 02:26	14° $\text{X}$ 25'14	0°37'05
evening rise	5646 Jan 08 13:36	27° $\text{B}$ 59'06		desc. node	5646 Dec 10 07:22	23° $\text{X}$ 12'24	
	5646 Jan 09 21:07	0° $\approx$		max. Earth dist.	5646 Dec 12 07:19	26° $\text{X}$ 29'44	1.42985 AU
	5646 Jan 30 08:04	0° $\text{K}$					

	5646 Dec 14 11:07	0°♄			5647 Dec 28 17:48	0°♋	
evening rise	5646 Dec 19 04:28	7°♄30'14		evening max el	5648 Jan 02 14:19	5°♋22'52	23°10'16
	5647 Jan 03 03:12	0°♋		retrograde	5648 Jan 12 22:30	11°♋30'16	
evening max el	5647 Jan 19 22:21	21°♋44'01	21°51'12	evening set	5648 Jan 17 20:17	9°♋28'52	
retrograde	5647 Jan 29 03:43	27°♋12'38		asc. node	5648 Jan 18 01:55	9°♋16'46	
asc. node	5647 Jan 31 04:52	26°♋50'26		inferior conj	5648 Jan 23 05:43	3°♋04'09	1°39'32
evening set	5647 Feb 02 13:28	25°♋26'53		minimum elong	5648 Jan 23 03:42	3°♋11'06	1°38'49
inferior conj	5647 Feb 07 21:34	19°♋08'13	2°20'32	min. Earth dist.	5648 Jan 22 20:02	3°♋37'33	0.68136 AU
minimum elong	5647 Feb 07 19:11	19°♋16'27	2°19'50		5648 Jan 25 13:02	30°♋♄	
min. Earth dist.	5647 Feb 07 23:17	19°♋02'12	0.68102 AU	morning rise	5648 Jan 28 11:03	26°♄57'05	
morning rise	5647 Feb 13 00:44	12°♋56'46		direct	5648 Feb 01 19:05	25°♄13'07	
direct	5647 Feb 17 23:04	10°♋49'54			5648 Feb 10 04:44	0°♋	
morning max el	5647 Feb 27 18:45	16°♋38'09	22°42'09	morning max el	5648 Feb 10 09:41	0°♋12'18	21°17'53
desc. node	5647 Mar 08 06:36	26°♋40'16		desc. node	5648 Feb 23 03:39	16°♋16'20	
	5647 Mar 10 18:25	0°♋			5648 Mar 03 12:41	0°♋	
	5647 Mar 30 20:50	0°♋		morning set	5648 Mar 12 14:07	13°♋57'40	
morning set	5647 Apr 02 22:24	4°♋59'20		max. Earth dist.	5648 Mar 19 16:49	25°♋24'11	1.42290 AU
max. Earth dist.	5647 Apr 07 14:55	12°♋50'54	1.40218 AU		5648 Mar 22 11:27	0°♋	
superior conj	5647 Apr 15 09:56	26°♋34'19	-1°49'54	superior conj	5648 Mar 27 01:28	7°♋46'15	-2°06'13
minimum elong	5647 Apr 15 15:01	26°♋57'25	1°49'27	minimum elong	5648 Mar 27 04:30	7°♋59'18	2°06'07
	5647 Apr 17 06:56	0°♋		evening rise	5648 Apr 07 08:45	27°♋49'46	
evening rise	5647 Apr 25 07:53	15°♋06'13			5648 Apr 08 13:31	0°♋	
asc. node	5647 Apr 29 04:09	22°♋19'50		asc. node	5648 Apr 15 01:12	11°♋29'14	
	5647 May 03 11:29	0°♋		evening max el	5648 Apr 23 21:34	23°♋55'11	18°07'54
evening max el	5647 May 11 11:05	10°♋59'22	18°25'30	retrograde	5648 Apr 30 14:49	27°♋20'12	
retrograde	5647 May 18 22:29	14°♋41'54		evening set	5648 May 03 04:47	26°♋50'14	
evening set	5647 May 21 05:30	14°♋21'58		inferior conj	5648 May 09 22:08	21°♋56'05	2°48'07
inferior conj	5647 May 28 16:06	9°♋48'36	1°49'03	minimum elong	5648 May 10 01:14	21°♋48'46	2°47'26
minimum elong	5647 May 28 19:21	9°♋42'01	1°48'03	min. Earth dist.	5648 May 13 04:31	18°♋53'01	0.60593 AU
min. Earth dist.	5647 Jun 01 02:15	7°♋03'38	0.58397 AU	morning rise	5648 May 16 19:23	16°♋03'57	
desc. node	5647 Jun 04 05:51	4°♋53'47		desc. node	5648 May 21 02:53	14°♋11'07	
morning rise	5647 Jun 05 06:01	4°♋20'19		direct	5648 May 23 10:09	13°♋55'45	
direct	5647 Jun 11 06:56	2°♋45'10		morning max el	5648 Jun 06 17:15	21°♋51'25	27°45'52
morning max el	5647 Jun 25 16:11	10°♋27'59	27°02'53		5648 Jun 13 20:19	0°♋	
	5647 Jul 10 17:37	0°♋			5648 Jul 02 18:40	0°♋	
morning set	5647 Jul 25 21:43	28°♋05'36		morning set	5648 Jul 09 03:21	12°♋34'24	
asc. node	5647 Jul 26 03:26	28°♋35'41		asc. node	5648 Jul 12 00:29	18°♋38'29	
	5647 Jul 26 19:20	0°♋		max. Earth dist.	5648 Jul 15 06:19	25°♋40'46	1.31984 AU
superior conj	5647 Aug 01 22:23	13°♋22'28	1°05'30	superior conj	5648 Jul 16 09:33	28°♋10'22	0°44'12
minimum elong	5647 Aug 01 20:07	13°♋10'00	1°05'06	minimum elong	5648 Jul 16 07:44	28°♋00'23	0°43'50
max. Earth dist.	5647 Aug 01 19:39	13°♋07'23	1.31901 AU		5648 Jul 17 05:27	0°♋	
evening rise	5647 Aug 08 18:11	28°♋15'24		evening rise	5648 Jul 23 04:41	13°♋01'41	
	5647 Aug 09 14:04	0°♋			5648 Jul 31 17:06	0°♋	
	5647 Aug 26 06:34	0°♋		desc. node	5648 Aug 17 02:09	23°♋53'21	
desc. node	5647 Aug 31 05:09	6°♋49'27		evening max el	5648 Aug 19 03:30	25°♋58'03	25°21'18
evening max el	5647 Sep 07 09:15	14°♋50'42	26°34'47		5648 Aug 24 03:13	0°♋	
retrograde	5647 Sep 21 07:36	21°♋58'57		retrograde	5648 Sep 02 01:47	3°♋01'26	
evening set	5647 Sep 28 01:45	20°♋04'42		evening set	5648 Sep 07 21:58	1°♋42'47	
min. Earth dist.	5647 Oct 01 23:00	17°♋29'17	0.59775 AU		5648 Sep 11 03:33	30°♋♋	
inferior conj	5647 Oct 05 04:35	14°♋56'01	-4°40'49	min. Earth dist.	5648 Sep 12 15:10	29°♋03'09	0.57751 AU
minimum elong	5647 Oct 05 10:40	14°♋43'56	4°39'35	inferior conj	5648 Sep 15 16:24	26°♋57'45	-5°15'37
morning rise	5647 Oct 12 21:41	10°♋17'52		minimum elong	5648 Sep 15 19:15	26°♋52'50	5°15'25
direct	5647 Oct 15 05:27	9°♋58'15		morning rise	5648 Sep 23 18:49	22°♋42'50	
asc. node	5647 Oct 22 02:41	13°♋00'35		direct	5648 Sep 26 06:42	22°♋24'04	
morning max el	5647 Oct 22 21:07	13°♋43'08	18°14'29	morning max el	5648 Oct 05 00:22	26°♋32'58	18°57'10
	5647 Nov 02 22:33	0°♋		asc. node	5648 Oct 07 23:44	29°♋49'28	
morning set	5647 Nov 07 17:07	8°♋54'03			5648 Oct 08 03:06	0°♋	
				morning set	5648 Oct 21 14:55	23°♋09'23	
superior conj	5647 Nov 17 02:14	26°♋25'34	1°08'16		5648 Oct 25 02:08	0°♋	
minimum elong	5647 Nov 17 06:04	26°♋42'57	1°07'49				
	5647 Nov 19 01:52	0°♋		superior conj	5648 Oct 30 00:26	9°♋35'24	1°28'44
max. Earth dist.	5647 Nov 24 16:57	9°♋48'28	1.41103 AU	minimum elong	5648 Oct 30 03:21	9°♋49'21	1°28'29
desc. node	5647 Nov 27 04:24	13°♋58'20		max. Earth dist.	5648 Nov 05 22:41	22°♋24'45	1.38997 AU
evening rise	5647 Nov 29 12:33	17°♋49'34		evening rise	5648 Nov 09 19:12	29°♋09'47	
	5647 Dec 07 05:19	0°♋			5648 Nov 10 06:56	0°♋	

desc. node	5648 Nov 13 01:25	4°♊39'46			5649 Nov 02 21:36	0°♊	
	5648 Nov 29 15:31	0°♊			5649 Nov 24 22:40	0°♊	
evening max el	5648 Dec 15 03:38	19°♊04'41	24°29'33	evening max el	5649 Nov 27 16:09	2°♊48'48	25°42'09
retrograde	5648 Dec 26 13:37	25°♊45'11		retrograde	5649 Dec 10 00:14	9°♊52'47	
evening set	5649 Jan 01 00:29	23°♊28'45		evening set	5649 Dec 16 00:28	7°♊23'40	
asc. node	5649 Jan 03 22:58	20°♊23'00		min. Earth dist.	5649 Dec 20 08:35	2°♊40'48	0.67100 AU
min. Earth dist.	5649 Jan 05 15:51	18°♊11'21	0.67798 AU	inferior conj	5649 Dec 21 16:25	0°♊59'39	-0°03'02
inferior conj	5649 Jan 06 12:36	17°♊02'02	0°51'23	minimum elong	5649 Dec 21 16:30	0°♊59'24	0°02'59
minimum elong	5649 Jan 06 11:24	17°♊06'02	0°50'55	transit middle	5649 Dec 21 16:30	0°♊59'24	0°02'59
morning rise	5649 Jan 11 22:27	11°♊01'06		transit begin	5649 Dec 21 13:44	1°♊08'13	
direct	5649 Jan 15 17:11	9°♊39'19		transit end	5649 Dec 21 19:16	0°♊50'36	
morning max el	5649 Jan 23 08:14	13°♊58'22	20°04'39	asc. node	5649 Dec 21 20:00	0°♊48'16	
	5649 Feb 04 18:15	0°♊			5649 Dec 22 11:19	30°♊	
desc. node	5649 Feb 09 00:40	6°♊17'17		morning rise	5649 Dec 27 08:57	25°♊06'49	
morning set	5649 Feb 19 11:31	22°♊10'23		direct	5649 Dec 30 15:58	24°♊04'34	
	5649 Feb 24 12:21	0°♊		morning max el	5650 Jan 06 14:37	27°♊55'09	19°05'54
max. Earth dist.	5649 Mar 02 02:13	8°♊49'19	1.43953 AU		5650 Jan 08 12:56	0°♊	
				greatest brilliancy	5650 Jan 20 15:59	16°♊59'52	-0.8m
superior conj	5649 Mar 07 15:54	17°♊49'44	-2°08'15	desc. node	5650 Jan 26 21:40	26°♊36'37	
minimum elong	5649 Mar 07 13:32	17°♊40'02	2°08'11		5650 Jan 29 02:04	0°♊	
	5649 Mar 14 23:21	0°♊		morning set	5650 Jan 29 14:36	0°♊48'43	
evening rise	5649 Mar 20 15:42	9°♊42'49		max. Earth dist.	5650 Feb 12 17:21	22°♊51'27	1.45013 AU
asc. node	5649 Apr 01 22:14	0°♊09'10					
	5649 Apr 01 19:46	0°♊		superior conj	5650 Feb 15 06:39	26°♊53'13	-1°51'07
evening max el	5649 Apr 07 10:23	7°♊09'07	18°09'35	minimum elong	5650 Feb 14 22:19	26°♊20'16	1°50'30
retrograde	5649 Apr 13 20:28	10°♊31'40			5650 Feb 17 05:48	0°♊	
evening set	5649 Apr 16 16:50	9°♊50'08		evening rise	5650 Mar 02 00:41	20°♊39'02	
inferior conj	5649 Apr 22 20:57	4°♊36'28	3°20'15		5650 Mar 07 17:23	0°♊	
minimum elong	5649 Apr 22 22:41	4°♊31'50	3°20'01	asc. node	5650 Mar 19 19:15	18°♊10'49	
min. Earth dist.	5649 Apr 25 15:32	1°♊39'17	0.62748 AU	evening max el	5650 Mar 21 22:41	20°♊34'38	18°29'53
	5649 Apr 27 08:16	30°♊		retrograde	5650 Mar 28 10:55	24°♊07'50	
morning rise	5649 Apr 29 03:09	28°♊30'20		evening set	5650 Mar 31 13:43	23°♊13'39	
direct	5649 May 05 23:11	25°♊56'05		inferior conj	5650 Apr 06 08:30	17°♊42'07	3°31'14
desc. node	5649 May 07 23:54	26°♊08'33		minimum elong	5650 Apr 06 08:39	17°♊41'39	3°31'13
	5649 May 15 13:38	0°♊		min. Earth dist.	5650 Apr 08 12:02	15°♊09'54	0.64645 AU
morning max el	5649 May 19 23:58	3°♊57'04	27°51'00	morning rise	5650 Apr 12 02:51	11°♊29'19	
	5649 Jun 08 10:36	0°♊		direct	5650 Apr 18 20:23	8°♊41'19	
morning set	5649 Jun 23 03:04	26°♊42'43		desc. node	5650 Apr 24 20:56	10°♊31'32	
	5649 Jun 24 17:46	0°♊		morning max el	5650 May 02 09:36	16°♊37'09	27°20'24
max. Earth dist.	5649 Jun 28 12:39	7°♊57'37	1.32498 AU		5650 May 13 11:30	0°♊	
asc. node	5649 Jun 28 21:30	8°♊45'05			5650 Jun 01 06:01	0°♊	
				morning set	5650 Jun 06 18:12	10°♊22'49	
superior conj	5649 Jun 30 18:14	12°♊46'28	0°19'15	max. Earth dist.	5650 Jun 11 10:42	19°♊47'18	1.33470 AU
minimum elong	5649 Jun 30 17:20	12°♊41'35	0°19'03				
evening rise	5649 Jul 07 16:27	27°♊47'50		superior conj	5650 Jun 14 22:28	27°♊05'11	-0°08'38
	5649 Jul 08 17:25	0°♊		minimum elong	5650 Jun 14 22:55	27°♊07'34	0°08'34
	5649 Jul 25 23:46	0°♊		behind sun begin	5650 Jun 14 18:14	26°♊42'45	
evening max el	5649 Jul 31 16:03	6°♊26'38	23°47'57	behind sun end	5650 Jun 15 03:36	27°♊32'24	
desc. node	5649 Aug 03 23:10	9°♊17'19		asc. node	5650 Jun 15 18:31	28°♊51'38	
retrograde	5649 Aug 14 08:24	13°♊19'02			5650 Jun 16 07:21	0°♊	
evening set	5649 Aug 18 18:18	12°♊36'09		evening rise	5650 Jun 22 03:37	12°♊28'14	
min. Earth dist.	5649 Aug 25 02:12	9°♊33'57	0.56036 AU		5650 Jul 01 02:24	0°♊	
inferior conj	5649 Aug 27 07:55	8°♊12'46	-5°14'26	evening max el	5650 Jul 13 06:23	16°♊47'29	22°10'36
minimum elong	5649 Aug 27 04:26	8°♊18'02	5°14'09	desc. node	5650 Jul 21 20:11	22°♊27'49	
morning rise	5649 Sep 04 17:03	4°♊17'01		retrograde	5650 Jul 26 03:01	23°♊10'36	
direct	5649 Sep 07 12:11	3°♊57'17		evening set	5650 Jul 29 01:31	22°♊51'27	
morning max el	5649 Sep 17 16:40	8°♊41'57	20°01'53	min. Earth dist.	5650 Aug 06 12:08	19°♊12'50	0.54978 AU
asc. node	5649 Sep 24 20:46	17°♊36'17		inferior conj	5650 Aug 07 06:46	18°♊46'36	-4°22'36
	5649 Oct 01 22:21	0°♊		minimum elong	5650 Aug 06 22:10	18°♊58'43	4°20'37
morning set	5649 Oct 05 19:30	7°♊43'38		morning rise	5650 Aug 15 20:31	14°♊56'49	
				direct	5650 Aug 19 01:42	14°♊33'42	
superior conj	5649 Oct 13 12:47	23°♊26'51	1°39'55	morning max el	5650 Aug 30 20:42	20°♊04'36	21°27'23
minimum elong	5649 Oct 13 14:12	23°♊34'00	1°39'52		5650 Sep 07 23:25	0°♊	
	5649 Oct 16 20:29	0°♊		asc. node	5650 Sep 11 17:48	6°♊07'31	
max. Earth dist.	5649 Oct 19 04:14	4°♊27'15	1.36922 AU	morning set	5650 Sep 20 04:20	22°♊29'22	
evening rise	5649 Oct 22 23:25	11°♊29'12			5650 Sep 23 18:08	0°♊	
desc. node	5649 Oct 30 22:26	25°♊12'51					

superior conj	5650 Sep 27 11:04	7° $\Omega$ 46'57	1°43'09	morning set	5651 Sep 04 15:30	7° $\Pi$ 21'17	
minimum elong	5650 Sep 27 11:01	7° $\Omega$ 46'42	1°43'10				
max. Earth dist.	5650 Oct 01 15:15	16° $\Omega$ 19'03	1.35100 AU	superior conj	5651 Sep 11 16:07	22° $\Pi$ 26'14	1°39'39
evening rise	5650 Oct 05 21:23	24° $\Omega$ 37'37		minimum elong	5651 Sep 11 14:54	22° $\Pi$ 19'41	1°39'34
	5650 Oct 08 18:33	0° $\Pi$		max. Earth dist.	5651 Sep 14 11:08	28° $\Pi$ 21'58	1.33661 AU
desc. node	5650 Oct 17 19:26	15° $\Pi$ 32'00			5651 Sep 15 05:52	0° $\Omega$	
	5650 Oct 27 10:34	0° $\Upsilon$		evening rise	5651 Sep 19 08:58	8° $\Omega$ 24'09	
evening max el	5650 Nov 10 04:59	16° $\Upsilon$ 30'01	26°40'41		5651 Oct 01 06:11	0° $\Pi$	
retrograde	5650 Nov 23 05:35	23° $\Upsilon$ 45'51		desc. node	5651 Oct 04 16:29	5° $\Pi$ 30'46	
evening set	5650 Nov 29 18:17	21° $\Upsilon$ 08'29		evening max el	5651 Oct 23 17:39	29° $\Pi$ 58'54	27°17'44
min. Earth dist.	5650 Dec 03 19:52	17° $\Upsilon$ 00'41	0.66052 AU		5651 Oct 23 18:07	0° $\Upsilon$	
inferior conj	5650 Dec 05 15:10	14° $\Upsilon$ 52'28	-1°02'44	retrograde	5651 Nov 06 04:50	7° $\Upsilon$ 16'58	
minimum elong	5650 Dec 05 16:55	14° $\Upsilon$ 47'15	1°01'58	evening set	5651 Nov 13 03:37	4° $\Upsilon$ 38'07	
asc. node	5650 Dec 08 17:01	11° $\Upsilon$ 27'42		min. Earth dist.	5651 Nov 16 23:26	1° $\Upsilon$ 04'46	0.64661 AU
morning rise	5650 Dec 11 16:23	9° $\Upsilon$ 10'16			5651 Nov 17 23:35	30° $\Upsilon$ $\Pi$	
direct	5650 Dec 14 13:41	8° $\Upsilon$ 23'49		inferior conj	5651 Nov 19 06:33	28° $\Pi$ 35'35	-2°06'07
morning max el	5650 Dec 21 03:09	11° $\Upsilon$ 56'57	18°23'11	minimum elong	5651 Nov 19 10:15	28° $\Pi$ 25'33	2°04'36
	5651 Jan 03 01:30	0° $\Sigma$		morning rise	5651 Nov 25 18:09	23° $\Pi$ 07'05	
morning set	5651 Jan 09 19:15	10° $\Sigma$ 46'54		asc. node	5651 Nov 25 14:03	23° $\Pi$ 11'45	
desc. node	5651 Jan 13 18:41	17° $\Sigma$ 08'40		direct	5651 Nov 28 08:02	22° $\Pi$ 32'32	
	5651 Jan 21 21:22	0° $\approx$		morning max el	5651 Dec 04 19:18	25° $\Pi$ 57'43	17°57'22
					5651 Dec 08 05:55	0° $\Upsilon$	
superior conj	5651 Jan 25 09:54	5° $\approx$ 32'03	-1°15'22	morning set	5651 Dec 22 05:23	22° $\Upsilon$ 12'58	
minimum elong	5651 Jan 25 01:10	4° $\approx$ 57'50	1°14'19		5651 Dec 26 21:23	0° $\Sigma$	
max. Earth dist.	5651 Jan 26 11:56	7° $\approx$ 14'05	1.45364 AU	desc. node	5651 Dec 31 15:43	7° $\Sigma$ 49'29	
evening rise	5651 Feb 10 10:22	0° $\Upsilon$ 39'07					
	5651 Feb 10 00:26	0° $\Upsilon$		superior conj	5652 Jan 04 21:49	14° $\Sigma$ 41'34	-0°29'31
greatest brilliancy	5651 Feb 20 19:00	16° $\Upsilon$ 53'50	-0.8m	minimum elong	5652 Jan 04 18:17	14° $\Sigma$ 27'23	0°28'59
	5651 Mar 01 19:39	0° $\Upsilon$		max. Earth dist.	5652 Jan 09 07:24	21° $\Sigma$ 41'15	1.44972 AU
evening max el	5651 Mar 05 08:05	4° $\Upsilon$ 05'57	19°07'46		5652 Jan 14 14:41	0° $\approx$	
asc. node	5651 Mar 06 16:17	5° $\Upsilon$ 22'21		evening rise	5652 Jan 21 02:05	10° $\approx$ 01'11	
retrograde	5651 Mar 12 06:30	8° $\Upsilon$ 01'10			5652 Feb 03 05:58	0° $\Upsilon$	
evening set	5651 Mar 15 16:23	6° $\Upsilon$ 53'26		greatest brilliancy	5652 Feb 04 14:04	1° $\Upsilon$ 58'31	-0.6m
inferior conj	5651 Mar 21 05:05	1° $\Upsilon$ 05'42	3°26'06	evening max el	5652 Feb 16 12:53	17° $\Upsilon$ 39'52	20°01'27
minimum elong	5651 Mar 21 03:57	1° $\Upsilon$ 09'20	3°26'00	asc. node	5652 Feb 21 13:18	21° $\Upsilon$ 30'12	
	5651 Mar 22 01:35	30° $\Upsilon$ $\Upsilon$		retrograde	5652 Feb 24 04:26	22° $\Upsilon$ 06'44	
min. Earth dist.	5651 Mar 22 17:10	29° $\Upsilon$ 10'31	0.66159 AU	evening set	5652 Feb 27 22:31	20° $\Upsilon$ 44'36	
morning rise	5651 Mar 26 15:08	24° $\Upsilon$ 50'41		inferior conj	5652 Mar 04 07:47	14° $\Upsilon$ 42'37	3°08'25
direct	5651 Apr 02 00:16	22° $\Upsilon$ 02'23		minimum elong	5652 Mar 04 05:48	14° $\Upsilon$ 49'18	3°08'04
desc. node	5651 Apr 11 17:56	26° $\Upsilon$ 46'31		min. Earth dist.	5652 Mar 05 05:24	13° $\Upsilon$ 29'56	0.67248 AU
morning max el	5651 Apr 14 19:31	29° $\Upsilon$ 39'11	26°21'00	morning rise	5652 Mar 09 12:52	8° $\Upsilon$ 27'50	
	5651 Apr 15 03:41	0° $\Upsilon$		direct	5652 Mar 15 09:41	5° $\Upsilon$ 50'27	
	5651 May 07 08:51	0° $\Sigma$		morning max el	5652 Mar 27 04:28	12° $\Upsilon$ 53'12	25°01'56
morning set	5651 May 20 21:12	23° $\Sigma$ 24'12		desc. node	5652 Mar 28 14:58	14° $\Upsilon$ 23'16	
	5651 May 24 08:04	0° $\Pi$			5652 Apr 09 23:53	0° $\Upsilon$	
max. Earth dist.	5651 May 24 21:43	1° $\Pi$ 06'41	1.34912 AU		5652 Apr 29 03:27	0° $\Sigma$	
				morning set	5652 May 02 07:18	5° $\Sigma$ 33'02	
superior conj	5651 May 29 19:57	10° $\Pi$ 59'47	-0°38'23	max. Earth dist.	5652 May 05 22:24	12° $\Sigma$ 09'09	1.36788 AU
minimum elong	5651 May 29 22:04	11° $\Pi$ 10'39	0°38'00				
asc. node	5651 Jun 02 15:33	18° $\Pi$ 54'15		superior conj	5652 May 12 07:38	24° $\Sigma$ 21'28	-1°08'26
evening rise	5651 Jun 06 12:14	26° $\Pi$ 56'48		minimum elong	5652 May 12 11:30	24° $\Sigma$ 40'26	1°07'49
	5651 Jun 07 23:54	0° $\Sigma$			5652 May 15 03:50	0° $\Pi$	
evening max el	5651 Jun 25 06:22	27° $\Sigma$ 33'22	20°43'20	asc. node	5652 May 19 12:35	8° $\Pi$ 48'10	
	5651 Jun 28 02:27	0° $\Omega$		evening rise	5652 May 20 15:59	11° $\Pi$ 06'11	
retrograde	5651 Jul 06 15:19	3° $\Omega$ 08'34			5652 May 30 20:38	0° $\Sigma$	
evening set	5651 Jul 08 17:09	2° $\Omega$ 58'10		evening max el	5652 Jun 06 18:50	8° $\Sigma$ 59'12	19°33'48
desc. node	5651 Jul 08 17:12	2° $\Omega$ 58'09		retrograde	5652 Jun 16 10:12	13° $\Sigma$ 42'25	
	5651 Jul 16 06:16	30° $\Sigma$ $\Sigma$		evening set	5652 Jun 18 08:12	13° $\Sigma$ 32'02	
inferior conj	5651 Jul 17 23:54	29° $\Sigma$ 01'17	-2°43'20	desc. node	5652 Jun 24 14:13	10° $\Sigma$ 58'51	
minimum elong	5651 Jul 17 16:29	29° $\Sigma$ 11'52	2°40'49	inferior conj	5652 Jun 27 01:43	9° $\Sigma$ 27'21	-0°44'37
min. Earth dist.	5651 Jul 18 23:01	28° $\Sigma$ 28'15	0.54829 AU	minimum elong	5652 Jun 26 23:42	9° $\Sigma$ 30'32	0°43'53
morning rise	5651 Jul 26 15:26	24° $\Sigma$ 58'19		min. Earth dist.	5652 Jun 29 12:00	7° $\Sigma$ 55'11	0.55633 AU
direct	5651 Jul 30 11:03	24° $\Sigma$ 26'59		morning rise	5652 Jul 05 12:44	4° $\Sigma$ 53'46	
	5651 Aug 11 18:07	0° $\Omega$		direct	5652 Jul 10 03:59	4° $\Sigma$ 05'43	
morning max el	5651 Aug 12 14:34	0° $\Omega$ 46'24	23°07'52	morning max el	5652 Jul 24 03:58	11° $\Sigma$ 06'37	24°51'40
asc. node	5651 Aug 29 14:49	25° $\Omega$ 12'27			5652 Aug 07 12:10	0° $\Omega$	
	5651 Sep 01 01:48	0° $\Pi$		asc. node	5652 Aug 15 11:52	14° $\Omega$ 41'43	

morning set	5652 Aug 19 03:15	22°♎13'26			5653 Jul 31 04:28	0°♎	
	5652 Aug 22 17:44	0°♎		asc. node	5653 Aug 02 08:56	4°♎28'23	
				morning set	5653 Aug 03 13:58	7°♎00'46	
superior conj	5652 Aug 26 01:23	7°♎16'04	1°30'19				
minimum elong	5652 Aug 25 23:24	7°♎05'13	1°30'05	superior conj	5653 Aug 10 12:48	22°♎09'50	1°15'53
max. Earth dist.	5652 Aug 27 15:08	10°♎41'44	1.32642 AU	minimum elong	5653 Aug 10 10:31	21°♎57'11	1°15'32
evening rise	5652 Sep 02 06:25	22°♎37'38		max. Earth dist.	5653 Aug 11 00:27	23°♎14'09	1.32045 AU
	5652 Sep 05 23:05	0°♎			5653 Aug 14 02:27	0°♎	
desc. node	5652 Sep 20 13:31	24°♎59'44		evening rise	5653 Aug 17 10:46	7°♎09'26	
	5652 Sep 24 01:34	0°♎			5653 Aug 29 10:49	0°♎	
evening max el	5652 Oct 05 04:08	13°♎01'32	27°26'48	desc. node	5653 Sep 07 10:32	13°♎46'51	
retrograde	5652 Oct 18 21:29	20°♎16'51		evening max el	5653 Sep 17 09:47	25°♎24'56	27°03'21
evening set	5652 Oct 26 01:26	17°♎45'50			5653 Sep 23 05:34	0°♎	
min. Earth dist.	5652 Oct 29 17:11	14°♎43'20	0.62944 AU	retrograde	5653 Oct 01 06:48	2°♎36'21	
inferior conj	5652 Nov 01 11:49	12°♎01'44	-3°10'28	evening set	5653 Oct 08 07:48	0°♎24'51	
minimum elong	5652 Nov 01 17:21	11°♎48'16	3°08'32		5653 Oct 08 23:29	30°♎♎	
morning rise	5652 Nov 08 10:56	6°♎50'30		min. Earth dist.	5653 Oct 12 00:09	27°♎44'00	0.60969 AU
direct	5652 Nov 10 19:59	6°♎24'12		inferior conj	5653 Oct 15 03:41	25°♎02'37	-4°10'55
asc. node	5652 Nov 11 11:05	6°♎26'05		minimum elong	5653 Oct 15 10:09	24°♎48'44	4°09'13
morning max el	5652 Nov 17 12:09	9°♎50'09	17°49'13	morning rise	5653 Oct 22 14:33	20°♎11'58	
	5652 Nov 30 22:02	0°♎		direct	5653 Oct 24 21:42	19°♎50'48	
morning set	5652 Dec 03 15:47	4°♎48'58		asc. node	5653 Oct 29 08:10	21°♎13'18	
				morning max el	5653 Nov 01 02:27	23°♎26'04	17°59'36
superior conj	5652 Dec 15 09:09	25°♎01'04	0°15'15		5653 Nov 06 07:50	0°♎	
minimum elong	5652 Dec 15 10:39	25°♎07'23	0°15'02	morning set	5653 Nov 16 19:51	18°♎14'43	
behind sun begin	5652 Dec 15 07:21	24°♎53'34			5653 Nov 23 05:44	0°♎	
behind sun end	5652 Dec 15 13:58	25°♎21'12					
desc. node	5652 Dec 17 12:47	28°♎35'20		superior conj	5653 Nov 26 22:38	6°♎36'28	0°51'51
	5652 Dec 18 09:22	0°♎		minimum elong	5653 Nov 27 02:21	6°♎52'45	0°51'21
max. Earth dist.	5652 Dec 22 00:44	5°♎54'48	1.43879 AU	desc. node	5653 Dec 04 09:48	19°♎22'16	
evening rise	5652 Dec 30 12:44	19°♎18'13		max. Earth dist.	5653 Dec 04 13:08	19°♎36'06	1.42225 AU
	5653 Jan 06 13:12	0°♎		evening rise	5653 Dec 10 09:38	29°♎06'33	
	5653 Jan 28 07:45	0°♎			5653 Dec 10 23:06	0°♎	
evening max el	5653 Jan 29 12:12	1°♎15'17	21°08'15		5653 Dec 31 04:26	0°♎	
retrograde	5653 Feb 07 02:35	6°♎20'37		evening max el	5654 Jan 12 06:18	14°♎51'55	22°24'21
asc. node	5653 Feb 07 10:20	6°♎20'04		retrograde	5654 Jan 21 23:08	20°♎38'00	
evening set	5653 Feb 11 06:14	4°♎43'28		asc. node	5654 Jan 25 07:23	19°♎39'35	
	5653 Feb 15 11:55	30°♎♎		evening set	5654 Jan 26 13:49	18°♎45'28	
inferior conj	5653 Feb 16 14:13	28°♎29'48	2°40'34	inferior conj	5654 Jan 31 22:17	12°♎23'29	2°04'04
minimum elong	5653 Feb 16 11:51	28°♎37'59	2°39'58	minimum elong	5654 Jan 31 20:01	12°♎31'23	2°03'20
min. Earth dist.	5653 Feb 16 22:47	28°♎00'12	0.67907 AU	min. Earth dist.	5654 Jan 31 19:00	12°♎34'52	0.68160 AU
morning rise	5653 Feb 21 17:18	22°♎16'47		morning rise	5654 Feb 06 02:05	6°♎13'38	
direct	5653 Feb 26 23:56	19°♎57'47		direct	5654 Feb 10 18:07	4°♎16'41	
morning max el	5653 Mar 09 13:26	26°♎14'56	23°33'29	morning max el	5654 Feb 20 01:12	9°♎43'51	22°05'16
	5653 Mar 13 00:14	0°♎		desc. node	5654 Mar 02 09:03	22°♎16'36	
desc. node	5653 Mar 15 12:01	2°♎59'02			5654 Mar 07 21:23	0°♎	
	5653 Apr 03 13:35	0°♎		morning set	5654 Mar 25 02:31	26°♎17'28	
morning set	5653 Apr 13 18:49	16°♎35'01			5654 Mar 27 09:17	0°♎	
max. Earth dist.	5653 Apr 17 18:11	23°♎26'14	1.38945 AU	max. Earth dist.	5654 Mar 30 15:51	5°♎25'32	1.41131 AU
	5653 Apr 21 10:27	0°♎					
superior conj	5653 Apr 25 05:52	7°♎01'18	-1°36'16	superior conj	5654 Apr 07 09:56	18°♎47'58	-1°58'13
minimum elong	5653 Apr 25 10:55	7°♎24'58	1°35'40	minimum elong	5654 Apr 07 14:32	19°♎08'24	1°57'54
evening rise	5653 May 04 12:08	24°♎49'18			5654 Apr 13 14:22	0°♎	
asc. node	5653 May 06 09:38	28°♎29'12		evening rise	5654 Apr 17 21:11	7°♎56'58	
	5653 May 07 04:36	0°♎		asc. node	5654 Apr 23 06:40	17°♎51'46	
evening max el	5653 May 20 18:28	21°♎05'56	18°44'31		5654 Apr 30 20:14	0°♎	
retrograde	5653 May 28 21:55	25°♎06'37		evening max el	5654 May 04 01:59	3°♎46'17	18°15'35
evening set	5653 May 31 00:45	24°♎51'20		retrograde	5654 May 11 04:26	7°♎19'37	
inferior conj	5653 Jun 07 22:37	20°♎29'23	1°01'04	evening set	5654 May 13 14:19	6°♎55'50	
minimum elong	5653 Jun 08 00:50	20°♎25'17	1°00'17	inferior conj	5654 May 20 17:08	2°♎13'45	2°17'46
min. Earth dist.	5653 Jun 11 04:45	18°♎05'50	0.57231 AU	minimum elong	5654 May 20 20:33	2°♎06'20	2°16'49
desc. node	5653 Jun 11 11:14	17°♎54'30			5654 May 23 06:51	30°♎♎	
morning rise	5653 Jun 15 21:34	15°♎19'06		min. Earth dist.	5654 May 24 03:08	29°♎17'41	0.59314 AU
direct	5653 Jun 21 10:47	14°♎03'29		morning rise	5654 May 27 23:52	26°♎33'38	
morning max el	5653 Jul 05 19:31	21°♎34'48	26°22'35	desc. node	5654 May 29 08:16	25°♎52'01	
	5653 Jul 13 04:19	0°♎		direct	5654 Jun 03 07:37	24°♎43'51	
					5654 Jun 14 21:17	0°♎	

morning max el	5654 Jun 17 16:50	2°♄34'11	27°25'46		5655 Jun 12 12:44	0°♄	
	5654 Jul 07 14:43	0°♄			5655 Jun 30 01:55	0°♄	
morning set	5654 Jul 18 21:58	21°♄37'55		morning set	5655 Jul 03 01:18	5°♄58'31	
asc. node	5654 Jul 20 05:59	24°♄26'42		asc. node	5655 Jul 07 02:59	14°♄31'29	
	5654 Jul 22 19:51	0°♄		max. Earth dist.	5655 Jul 08 20:34	18°♄16'05	1.32140 AU
max. Earth dist.	5654 Jul 25 11:31	5°♄49'30	1.31872 AU				
				superior conj	5655 Jul 10 10:52	21°♄45'12	0°34'02
superior conj	5654 Jul 26 00:34	7°♄01'38	0°56'57	minimum elong	5655 Jul 10 09:24	21°♄37'05	0°33'43
minimum elong	5654 Jul 25 22:27	6°♄49'53	0°56'33		5655 Jul 14 05:04	0°♄	
evening rise	5654 Aug 01 19:36	21°♄52'14		evening rise	5655 Jul 17 06:50	6°♄39'04	
	5654 Aug 05 17:56	0°♄			5655 Jul 29 11:12	0°♄	
	5654 Aug 24 00:29	0°♄		evening max el	5655 Aug 11 23:48	17°♄49'31	24°43'21
desc. node	5654 Aug 25 07:32	1°♄35'19		desc. node	5655 Aug 12 04:33	18°♄00'49	
evening max el	5654 Aug 30 08:25	7°♄00'42	26°06'55	retrograde	5655 Aug 25 21:03	24°♄49'31	
retrograde	5654 Sep 13 07:33	14°♄08'04		evening set	5655 Aug 31 03:30	23°♄47'12	
evening set	5654 Sep 19 17:53	12°♄28'06		min. Earth dist.	5655 Sep 05 11:06	20°♄59'45	0.56954 AU
min. Earth dist.	5654 Sep 23 21:20	9°♄53'12	0.58887 AU	inferior conj	5655 Sep 08 05:51	19°♄11'41	-5°20'39
inferior conj	5654 Sep 27 02:41	7°♄29'16	-4°58'55	minimum elong	5655 Sep 08 06:16	19°♄11'00	5°20'39
minimum elong	5654 Sep 27 07:52	7°♄19'35	4°58'08	morning rise	5655 Sep 16 11:22	15°♄05'30	
morning rise	5654 Oct 05 00:06	3°♄01'17		direct	5655 Sep 19 01:53	14°♄46'33	
direct	5654 Oct 07 08:57	2°♄42'27		morning max el	5655 Sep 28 09:39	19°♄09'50	19°21'59
morning max el	5654 Oct 15 10:49	6°♄36'29	18°30'00	asc. node	5655 Oct 03 02:16	24°♄37'56	
asc. node	5654 Oct 16 05:14	7°♄22'41			5655 Oct 06 15:07	0°♄	
	5654 Oct 30 08:08	0°♄		morning set	5655 Oct 15 13:28	16°♄40'25	
morning set	5654 Oct 31 12:25	2°♄15'55			5655 Oct 22 05:28	0°♄	
superior conj	5654 Nov 09 10:30	19°♄16'53	1°18'08	superior conj	5655 Oct 23 15:16	2°♄45'57	1°34'31
minimum elong	5654 Nov 09 14:04	19°♄33'27	1°17'46	minimum elong	5655 Oct 23 17:35	2°♄57'15	1°34'22
	5654 Nov 15 08:44	0°♄		max. Earth dist.	5655 Oct 30 01:20	14°♄55'16	1.38099 AU
max. Earth dist.	5654 Nov 16 20:21	2°♄35'27	1.40218 AU	evening rise	5655 Nov 02 19:26	21°♄39'07	
evening rise	5654 Nov 21 03:12	9°♄52'17			5655 Nov 07 16:43	0°♄	
desc. node	5654 Nov 21 06:49	10°♄07'20		desc. node	5655 Nov 08 03:49	0°♄46'00	
	5654 Dec 03 22:11	0°♄			5655 Nov 27 20:52	0°♄	
evening max el	5654 Dec 25 20:51	28°♄32'17	23°44'19	evening max el	5655 Dec 08 09:50	12°♄16'24	25°01'41
	5654 Dec 27 09:29	0°♄		retrograde	5655 Dec 20 05:51	19°♄07'46	
retrograde	5655 Jan 05 16:36	4°♄55'19		evening set	5655 Dec 25 22:19	16°♄45'53	
evening set	5655 Jan 10 19:43	2°♄47'33		asc. node	5655 Dec 30 01:28	12°♄12'33	
asc. node	5655 Jan 12 04:26	1°♄29'32		min. Earth dist.	5655 Dec 30 10:38	11°♄42'54	0.67551 AU
	5655 Jan 13 11:48	30°♄		inferior conj	5655 Dec 31 11:58	10°♄19'49	0°29'03
min. Earth dist.	5655 Jan 15 15:46	27°♄10'17	0.68038 AU	minimum elong	5655 Dec 31 11:15	10°♄22'09	0°28'46
inferior conj	5655 Jan 16 06:09	26°♄21'15	1°19'58	morning rise	5656 Jan 06 00:23	4°♄21'49	
minimum elong	5655 Jan 16 04:25	26°♄27'08	1°19'18	direct	5656 Jan 09 13:59	3°♄08'33	
morning rise	5655 Jan 21 13:06	20°♄16'17		morning max el	5656 Jan 16 21:01	7°♄13'54	19°37'38
direct	5655 Jan 25 15:16	18°♄41'57		greatest brilliancy	5656 Jan 29 20:47	24°♄19'59	-0.7m
morning max el	5655 Feb 02 19:08	23°♄23'08	20°44'58		5656 Feb 02 15:38	0°♄	
	5655 Feb 08 12:07	0°♄		desc. node	5656 Feb 04 03:06	2°♄14'19	
desc. node	5655 Feb 17 06:04	12°♄04'31		morning set	5656 Feb 11 04:42	13°♄03'44	
	5655 Mar 01 05:22	0°♄			5656 Feb 22 01:21	0°♄	
morning set	5655 Mar 04 08:07	4°♄49'14		max. Earth dist.	5656 Feb 23 08:31	2°♄03'19	1.44494 AU
max. Earth dist.	5655 Mar 12 20:16	18°♄19'37	1.43064 AU				
				superior conj	5656 Feb 27 18:48	9°♄07'37	-2°03'28
superior conj	5655 Mar 19 15:04	29°♄31'18	-2°09'10	minimum elong	5656 Feb 27 13:35	8°♄46'41	2°03'14
minimum elong	5655 Mar 19 16:11	29°♄35'59	2°09'10		5656 Mar 11 10:56	0°♄	
	5655 Mar 19 21:54	0°♄		evening rise	5656 Mar 12 12:53	1°♄49'15	
evening rise	5655 Mar 31 14:55	20°♄19'47		asc. node	5656 Mar 27 00:42	25°♄14'53	
	5655 Apr 06 02:26	0°♄			5656 Mar 30 22:18	0°♄	
asc. node	5655 Apr 10 03:41	6°♄49'39		evening max el	5656 Mar 31 02:52	0°♄11'32	18°16'01
evening max el	5655 Apr 17 13:52	16°♄51'03	18°06'20	retrograde	5656 Apr 06 12:37	3°♄36'43	
retrograde	5655 Apr 24 02:47	20°♄13'01		evening set	5656 Apr 09 11:48	2°♄49'44	
evening set	5655 Apr 26 19:32	19°♄38'19			5656 Apr 13 02:51	30°♄	
inferior conj	5655 May 03 06:47	14°♄35'58	3°04'41	inferior conj	5656 Apr 15 11:30	27°♄28'17	3°27'07
minimum elong	5655 May 03 09:22	14°♄29'30	3°04'12	minimum elong	5656 Apr 15 12:33	27°♄25'20	3°27'02
min. Earth dist.	5655 May 06 08:59	11°♄32'24	0.61535 AU	min. Earth dist.	5656 Apr 17 23:51	24°♄40'00	0.63602 AU
morning rise	5655 May 09 21:18	8°♄36'56		morning rise	5656 Apr 21 12:16	21°♄18'54	
desc. node	5655 May 16 05:18	6°♄16'29		direct	5656 Apr 28 08:13	18°♄37'16	
direct	5655 May 16 15:34	6°♄15'56		desc. node	5656 May 02 02:19	19°♄20'03	
morning max el	5655 May 30 20:18	14°♄15'11	27°52'37	morning max el	5656 May 12 04:25	26°♄36'36	27°42'00

	5656 May 15 08:23	0°♄		min. Earth dist.	5657 Apr 01 00:04	8°♄25'13	0.65342 AU
	5656 Jun 05 03:25	0°♄		morning rise	5657 Apr 04 17:43	4°♄28'16	
morning set	5656 Jun 15 21:42	19°♄55'58		direct	5657 Apr 11 08:10	1°♄38'58	
	5656 Jun 20 19:29	0°♄		desc. node	5657 Apr 18 23:21	4°♄34'58	
max. Earth dist.	5656 Jun 20 23:52	0°♄23'03	1.32857 AU	morning max el	5657 Apr 24 14:35	9°♄27'59	26°58'12
asc. node	5656 Jun 22 23:59	4°♄38'50			5657 May 10 16:59	0°♄	
					5657 May 28 13:51	0°♄	
superior conj	5656 Jun 23 17:56	6°♄15'06	0°07'45	morning set	5657 May 30 08:08	3°♄20'46	
minimum elong	5656 Jun 23 17:33	6°♄13'03	0°07'39	max. Earth dist.	5657 Jun 03 17:43	12°♄00'48	1.34034 AU
behind sun begin	5656 Jun 23 12:50	5°♄47'44					
behind sun end	5656 Jun 23 22:16	6°♄38'24		superior conj	5657 Jun 07 19:34	20°♄24'05	-0°21'06
evening rise	5656 Jun 30 18:36	21°♄24'04		minimum elong	5657 Jun 07 20:42	20°♄29'59	0°20'54
	5656 Jul 04 22:31	0°♄		asc. node	5657 Jun 09 21:00	24°♄44'03	
evening max el	5656 Jul 23 12:10	28°♄10'52	23°06'06		5657 Jun 12 08:38	0°♄	
	5656 Jul 25 12:22	0°♄		evening rise	5657 Jun 15 04:56	6°♄00'14	
desc. node	5656 Jul 29 01:33	2°♄32'32			5657 Jun 28 05:49	0°♄	
retrograde	5656 Aug 05 21:43	4°♄52'40		evening max el	5657 Jul 05 05:38	8°♄37'55	21°31'29
evening set	5656 Aug 09 15:56	4°♄21'47		desc. node	5657 Jul 15 22:34	14°♄36'45	
min. Earth dist.	5656 Aug 16 21:02	1°♄05'55	0.55492 AU	retrograde	5657 Jul 17 12:31	14°♄42'41	
inferior conj	5656 Aug 18 13:23	0°♄07'24	-4°59'03	evening set	5657 Jul 20 00:04	14°♄28'38	
minimum elong	5656 Aug 18 07:11	0°♄16'25	4°58'08	inferior conj	5657 Jul 29 07:57	10°♄28'34	-3°45'01
	5656 Aug 18 18:28	30°♄		minimum elong	5657 Jul 28 23:01	10°♄41'04	3°42'28
morning rise	5656 Aug 27 00:40	26°♄16'17		min. Earth dist.	5657 Jul 29 06:49	10°♄30'09	0.54797 AU
direct	5656 Aug 30 00:02	25°♄55'16		morning rise	5657 Aug 06 23:03	6°♄36'06	
	5656 Sep 08 18:10	0°♄		direct	5657 Aug 10 09:41	6°♄10'25	
morning max el	5656 Sep 09 20:33	0°♄58'22	20°35'57	morning max el	5657 Aug 22 19:44	12°♄01'37	22°09'02
asc. node	5656 Sep 18 23:17	12°♄44'54			5657 Sep 04 23:55	0°♄	
	5656 Sep 28 04:26	0°♄		asc. node	5657 Sep 05 20:18	1°♄31'17	
morning set	5656 Sep 28 20:07	1°♄20'16		morning set	5657 Sep 13 06:09	16°♄09'07	
					5657 Sep 19 18:43	0°♄	
superior conj	5656 Oct 06 08:16	16°♄50'28	1°42'11				
minimum elong	5656 Oct 06 09:03	16°♄54'26	1°42'10	superior conj	5657 Sep 20 09:46	1°♄19'35	1°42'26
max. Earth dist.	5656 Oct 11 08:59	26°♄51'32	1.36110 AU	minimum elong	5657 Sep 20 09:11	1°♄16'28	1°42'25
	5656 Oct 13 00:13	0°♄		max. Earth dist.	5657 Sep 23 23:36	8°♄45'58	1.34431 AU
evening rise	5656 Oct 15 07:42	4°♄20'16		evening rise	5657 Sep 28 11:53	17°♄45'34	
desc. node	5656 Oct 25 00:50	21°♄13'44			5657 Oct 05 02:36	0°♄	
	5656 Oct 30 14:36	0°♄		desc. node	5657 Oct 11 21:51	11°♄25'02	
evening max el	5656 Nov 19 22:35	26°♄00'29	26°09'12		5657 Oct 24 21:16	0°♄	
	5656 Nov 24 14:58	0°♄		evening max el	5657 Nov 02 11:19	9°♄37'14	26°59'29
retrograde	5656 Dec 02 14:04	3°♄09'59		retrograde	5657 Nov 15 16:54	16°♄55'12	
evening set	5656 Dec 08 19:55	0°♄36'43		evening set	5657 Nov 22 10:29	14°♄15'53	
	5656 Dec 09 12:42	30°♄		min. Earth dist.	5657 Nov 26 09:22	10°♄23'19	0.65498 AU
min. Earth dist.	5656 Dec 13 01:14	26°♄08'54	0.66704 AU	inferior conj	5657 Nov 28 09:48	8°♄05'03	-1°29'18
inferior conj	5656 Dec 14 13:52	24°♄15'45	-0°27'47	minimum elong	5657 Nov 28 12:22	7°♄57'43	1°28'12
minimum elong	5656 Dec 14 14:37	24°♄13'27	0°27'26	asc. node	5657 Dec 02 19:33	3°♄38'32	
asc. node	5656 Dec 15 22:30	22°♄36'33		morning rise	5657 Dec 04 15:16	2°♄28'39	
morning rise	5656 Dec 20 09:52	18°♄27'11		direct	5657 Dec 07 09:08	1°♄47'46	
direct	5656 Dec 23 12:36	17°♄31'59		morning max el	5657 Dec 13 20:48	5°♄16'15	18°10'14
morning max el	5656 Dec 30 06:17	21°♄13'25	18°45'42		5657 Dec 30 17:09	0°♄	
	5657 Jan 06 06:27	0°♄		morning set	5658 Jan 01 10:51	2°♄50'17	
morning set	5657 Jan 20 17:17	22°♄12'53		desc. node	5658 Jan 07 21:08	13°♄16'18	
desc. node	5657 Jan 21 00:07	22°♄39'44					
	5657 Jan 25 16:16	0°♄		superior conj	5658 Jan 16 07:02	26°♄40'23	-0°56'28
max. Earth dist.	5657 Feb 05 02:06	16°♄18'44	1.45259 AU	minimum elong	5658 Jan 16 00:10	26°♄13'15	0°55'33
					5658 Jan 18 09:46	0°♄	
superior conj	5657 Feb 06 02:26	17°♄54'14	-1°37'53	max. Earth dist.	5658 Jan 18 21:36	0°♄46'26	1.45282 AU
minimum elong	5657 Feb 05 17:00	17°♄17'14	1°36'59	evening rise	5658 Feb 01 12:58	22°♄02'58	
	5657 Feb 13 18:24	0°♄			5658 Feb 06 15:53	0°♄	
evening rise	5657 Feb 21 11:53	12°♄21'10		greatest brilliancy	5658 Feb 13 21:31	11°♄05'57	-0.7m
greatest brilliancy	5657 Feb 28 09:47	23°♄28'36	-0.9m	evening max el	5658 Feb 25 21:46	27°♄12'57	19°28'41
	5657 Mar 04 12:43	0°♄		asc. node	5658 Feb 28 18:47	29°♄43'40	
asc. node	5657 Mar 13 21:44	12°♄56'54			5658 Mar 01 04:25	0°♄	
evening max el	5657 Mar 14 14:11	13°♄40'03	18°43'52	retrograde	5658 Mar 05 02:48	1°♄20'59	
retrograde	5657 Mar 21 05:45	17°♄21'18		evening set	5658 Mar 08 15:57	0°♄07'17	
evening set	5657 Mar 24 11:30	16°♄21'18			5658 Mar 08 20:04	30°♄	
inferior conj	5657 Mar 30 03:18	10°♄42'21	3°30'45	inferior conj	5658 Mar 14 02:53	24°♄12'59	3°19'58
minimum elong	5657 Mar 30 02:52	10°♄43'43	3°30'44	minimum elong	5658 Mar 14 01:20	24°♄18'05	3°19'47

min. Earth dist.	5658 Mar 15 08:37	22° $\text{K}$ 35'33	0.66675 AU	inferior conj	5659 Feb 26 07:29	7° $\text{K}$ 54'55	2°57'46
morning rise	5658 Mar 19 10:25	17° $\text{K}$ 57'33		minimum elong	5659 Feb 26 05:17	8° $\text{K}$ 02'27	2°57'18
direct	5658 Mar 25 14:31	15° $\text{K}$ 12'53		min. Earth dist.	5659 Feb 26 23:27	7° $\text{K}$ 00'24	0.67579 AU
desc. node	5658 Apr 05 20:24	21° $\text{K}$ 28'29		morning rise	5659 Mar 03 11:21	1° $\text{K}$ 40'28	
morning max el	5658 Apr 07 00:26	22° $\text{K}$ 37'32	25°49'06		5659 Mar 05 19:28	30° $\text{R}$ $\approx$	
	5658 Apr 13 12:15	0° $\text{Y}$		direct	5659 Mar 09 02:17	29° $\approx$ 09'59	
	5658 May 04 00:09	0° $\text{B}$			5659 Mar 12 15:39	0° $\text{K}$	
morning set	5658 May 13 04:38	16° $\text{B}$ 01'53		morning max el	5659 Mar 20 09:07	5° $\text{K}$ 55'06	24°24'45
max. Earth dist.	5658 May 17 00:08	23° $\text{B}$ 10'48	1.35668 AU	desc. node	5659 Mar 23 17:26	9° $\text{K}$ 32'41	
	5658 May 20 12:09	0° $\text{II}$			5659 Apr 08 00:27	0° $\text{Y}$	
				morning set	5659 Apr 25 05:57	27° $\text{Y}$ 44'53	
superior conj	5658 May 22 13:16	4° $\text{II}$ 05'30	-0°51'14		5659 Apr 26 12:42	0° $\text{B}$	
minimum elong	5658 May 22 16:09	4° $\text{II}$ 20'00	0°50'44	max. Earth dist.	5659 Apr 28 21:23	4° $\text{B}$ 13'27	1.37684 AU
asc. node	5658 May 27 18:02	14° $\text{II}$ 43'21					
evening rise	5658 May 30 11:47	20° $\text{II}$ 21'24		superior conj	5659 May 05 19:48	17° $\text{B}$ 11'06	-1°20'43
	5658 Jun 04 08:01	0° $\text{B}$		minimum elong	5659 May 06 00:17	17° $\text{B}$ 32'41	1°20'03
evening max el	5658 Jun 17 10:46	19° $\text{B}$ 39'24	20°11'13		5659 May 12 08:14	0° $\text{II}$	
retrograde	5658 Jun 28 02:20	24° $\text{B}$ 52'29		evening rise	5659 May 14 12:42	4° $\text{II}$ 20'47	
evening set	5658 Jun 30 00:35	24° $\text{B}$ 42'57		asc. node	5659 May 14 15:05	4° $\text{II}$ 32'37	
desc. node	5658 Jul 02 19:37	23° $\text{B}$ 58'04			5659 May 29 20:17	0° $\text{B}$	
inferior conj	5658 Jul 09 03:05	20° $\text{B}$ 44'21	-1°53'10	evening max el	5659 May 31 04:30	1° $\text{B}$ 24'23	19°10'20
minimum elong	5658 Jul 08 21:49	20° $\text{B}$ 52'11	1°51'14	retrograde	5659 Jun 09 03:23	5° $\text{B}$ 47'24	
min. Earth dist.	5658 Jul 10 18:42	19° $\text{B}$ 45'40	0.55057 AU	evening set	5659 Jun 11 02:50	5° $\text{B}$ 35'29	
morning rise	5658 Jul 17 17:36	16° $\text{B}$ 29'33		inferior conj	5659 Jun 19 12:21	1° $\text{B}$ 24'38	0°03'11
direct	5658 Jul 21 20:42	15° $\text{B}$ 52'32		minimum elong	5659 Jun 19 12:29	1° $\text{B}$ 24'25	0°03'07
morning max el	5658 Aug 04 11:04	22° $\text{B}$ 31'32	23°52'39	transit middle	5659 Jun 19 12:29	1° $\text{B}$ 24'25	0°03'07
	5658 Aug 11 01:42	0° $\text{Q}$		transit begin	5659 Jun 19 08:44	1° $\text{B}$ 30'44	
asc. node	5658 Aug 23 17:20	20° $\text{Q}$ 47'12		transit end	5659 Jun 19 16:13	1° $\text{B}$ 18'05	
	5658 Aug 28 06:06	0° $\text{P}$		desc. node	5659 Jun 19 16:38	1° $\text{B}$ 17'23	
morning set	5658 Aug 28 17:43	1° $\text{P}$ 01'22			5659 Jun 21 14:25	30° $\text{R}$ $\text{II}$	
				min. Earth dist.	5659 Jun 22 09:24	29° $\text{II}$ 28'41	0.56234 AU
superior conj	5658 Sep 04 16:53	16° $\text{P}$ 04'09	1°36'20	morning rise	5659 Jun 27 19:00	26° $\text{II}$ 35'09	
minimum elong	5658 Sep 04 15:17	15° $\text{P}$ 55'30	1°36'13	direct	5659 Jul 02 19:52	25° $\text{II}$ 36'17	
max. Earth dist.	5658 Sep 06 22:52	20° $\text{P}$ 54'25	1.33165 AU		5659 Jul 13 17:08	0° $\text{B}$	
	5658 Sep 11 07:24	0° $\text{B}$		morning max el	5659 Jul 17 00:41	2° $\text{B}$ 52'11	25°32'48
evening rise	5658 Sep 12 04:01	1° $\text{B}$ 44'20			5659 Aug 05 05:40	0° $\text{Q}$	
	5658 Sep 28 00:12	0° $\text{M}$		asc. node	5659 Aug 10 14:23	10° $\text{Q}$ 24'51	
desc. node	5658 Sep 28 18:53	1° $\text{M}$ 12'09		morning set	5659 Aug 13 05:15	15° $\text{Q}$ 52'24	
evening max el	5658 Oct 15 23:07	22° $\text{M}$ 55'43	27°25'27		5659 Aug 19 16:58	0° $\text{P}$	
	5658 Oct 27 08:39	0° $\text{X}$					
retrograde	5658 Oct 29 13:42	0° $\text{X}$ 14'04		superior conj	5659 Aug 20 03:20	0° $\text{P}$ 57'01	1°24'46
	5658 Oct 31 17:12	30° $\text{R}$ $\text{M}$		minimum elong	5659 Aug 20 01:10	0° $\text{P}$ 45'04	1°24'30
evening set	5658 Nov 05 15:22	27° $\text{M}$ 37'00		max. Earth dist.	5659 Aug 21 05:28	3° $\text{P}$ 20'25	1.32334 AU
min. Earth dist.	5658 Nov 09 08:59	24° $\text{M}$ 17'35	0.63955 AU	evening rise	5659 Aug 27 04:47	16° $\text{P}$ 07'20	
inferior conj	5658 Nov 11 21:13	21° $\text{M}$ 41'32	-2°33'34		5659 Sep 03 06:20	0° $\text{B}$	
minimum elong	5658 Nov 12 01:45	21° $\text{M}$ 29'46	2°31'49	desc. node	5659 Sep 15 15:54	20° $\text{B}$ 25'14	
morning rise	5658 Nov 18 13:39	16° $\text{M}$ 20'08			5659 Sep 22 22:55	0° $\text{M}$	
asc. node	5658 Nov 19 16:37	15° $\text{M}$ 58'50		evening max el	5659 Sep 28 08:00	5° $\text{M}$ 43'47	27°21'04
direct	5658 Nov 21 01:00	15° $\text{M}$ 49'41		retrograde	5659 Oct 12 03:29	12° $\text{M}$ 57'35	
morning max el	5658 Nov 27 13:40	19° $\text{M}$ 14'29	17°51'46	evening set	5659 Oct 19 07:09	10° $\text{M}$ 33'40	
	5658 Dec 05 12:44	0° $\text{X}$		min. Earth dist.	5659 Oct 22 22:25	7° $\text{M}$ 41'31	0.62123 AU
morning set	5658 Dec 14 08:05	14° $\text{X}$ 48'05		inferior conj	5659 Oct 25 21:13	4° $\text{M}$ 58'16	-3°37'01
	5658 Dec 23 08:02	0° $\text{B}$		minimum elong	5659 Oct 26 03:20	4° $\text{M}$ 44'09	3°35'06
desc. node	5658 Dec 25 18:10	3° $\text{B}$ 59'27			5659 Nov 01 19:51	30° $\text{R}$ $\text{B}$	
				morning rise	5659 Nov 02 01:22	29° $\text{B}$ 55'10	
superior conj	5658 Dec 27 03:52	6° $\text{B}$ 17'01	-0°09'53	direct	5659 Nov 04 09:07	29° $\text{B}$ 31'29	
minimum elong	5658 Dec 27 02:45	6° $\text{B}$ 12'28	0°09'43	asc. node	5659 Nov 06 13:39	29° $\text{B}$ 53'12	
behind sun begin	5658 Dec 26 18:45	5° $\text{B}$ 39'53			5659 Nov 06 21:19	0° $\text{M}$	
behind sun end	5658 Dec 27 10:45	6° $\text{B}$ 45'00		morning max el	5659 Nov 11 05:47	3° $\text{M}$ 00'41	17°51'14
max. Earth dist.	5659 Jan 01 15:57	15° $\text{B}$ 07'48	1.44578 AU	morning set	5659 Nov 27 02:43	27° $\text{M}$ 47'14	
	5659 Jan 11 04:22	0° $\approx$			5659 Nov 28 08:17	0° $\text{X}$	
evening rise	5659 Jan 12 00:31	1° $\approx$ 17'29					
	5659 Jan 31 08:12	0° $\text{K}$		superior conj	5659 Dec 08 02:25	17° $\text{X}$ 08'42	0°31'58
evening max el	5659 Feb 09 00:15	10° $\text{X}$ 47'26	20°28'27	minimum elong	5659 Dec 08 05:13	17° $\text{X}$ 20'39	0°31'35
asc. node	5659 Feb 15 15:51	15° $\text{X}$ 20'10		desc. node	5659 Dec 12 15:11	24° $\text{X}$ 45'51	
retrograde	5659 Feb 17 01:07	15° $\text{X}$ 30'24		max. Earth dist.	5659 Dec 15 07:03	29° $\text{X}$ 07'56	1.43234 AU
evening set	5659 Feb 20 22:59	14° $\text{X}$ 02'11			5659 Dec 15 19:52	0° $\text{B}$	



evening rise	5659 Dec 22 13:44	10° $\text{Z}$ 43'24		evening max el	5661 Jan 04 13:46	8° $\text{Z}$ 01'32	22°58'20
	5660 Jan 04 07:57	0° $\text{Z}$		retrograde	5661 Jan 14 17:55	14° $\text{Z}$ 03'30	
evening max el	5660 Jan 22 21:20	24° $\text{Z}$ 23'21	21°39'53	asc. node	5661 Jan 19 09:56	12° $\text{Z}$ 12'20	
retrograde	5660 Jan 31 22:39	29° $\text{Z}$ 45'43		evening set	5661 Jan 19 13:51	12° $\text{Z}$ 04'16	
asc. node	5660 Feb 02 12:54	29° $\text{Z}$ 32'14		inferior conj	5661 Jan 24 23:00	5° $\text{Z}$ 40'09	1°46'14
evening set	5660 Feb 05 06:49	28° $\text{Z}$ 02'12		minimum elong	5661 Jan 24 20:54	5° $\text{Z}$ 47'23	1°45'30
inferior conj	5660 Feb 10 14:50	21° $\text{Z}$ 44'50	2°26'06	min. Earth dist.	5661 Jan 24 14:55	6° $\text{Z}$ 08'03	0.68153 AU
minimum elong	5660 Feb 10 12:27	21° $\text{Z}$ 53'07	2°25'24		5661 Jan 29 15:06	30° $\text{R}$ $\text{Z}$	
min. Earth dist.	5660 Feb 10 18:19	21° $\text{Z}$ 32'45	0.68065 AU	morning rise	5661 Jan 30 03:51	29° $\text{Z}$ 32'25	
morning rise	5660 Feb 15 17:54	15° $\text{Z}$ 32'59		direct	5661 Feb 03 13:57	27° $\text{Z}$ 45'08	
direct	5660 Feb 20 18:25	13° $\text{Z}$ 22'50			5661 Feb 09 02:52	0° $\text{Z}$	
morning max el	5660 Mar 01 18:36	19° $\text{Z}$ 18'24	22°55'22	morning max el	5661 Feb 12 08:38	2° $\text{Z}$ 51'13	21°29'54
desc. node	5660 Mar 09 14:28	28° $\text{Z}$ 27'34		desc. node	5661 Feb 24 11:29	17° $\text{Z}$ 59'00	
	5660 Mar 10 18:47	0° $\text{H}$			5661 Mar 04 18:28	0° $\text{H}$	
	5660 Mar 31 04:39	0° $\text{Y}$		morning set	5661 Mar 16 01:45	17° $\text{H}$ 22'47	
morning set	5660 Apr 05 06:03	8° $\text{Y}$ 13'38		max. Earth dist.	5661 Mar 22 17:56	28° $\text{H}$ 10'25	1.42000 AU
max. Earth dist.	5660 Apr 09 17:01	15° $\text{Y}$ 45'07	1.39890 AU		5661 Mar 23 20:24	0° $\text{Y}$	
superior conj	5660 Apr 17 10:58	29° $\text{Y}$ 30'10	-1°46'34	superior conj	5661 Mar 30 05:52	10° $\text{Y}$ 51'20	-2°04'32
minimum elong	5660 Apr 17 16:06	29° $\text{Y}$ 53'43	1°46'03	minimum elong	5661 Mar 30 09:26	11° $\text{Y}$ 06'47	2°04'23
	5660 Apr 17 17:28	0° $\text{B}$			5661 Apr 09 22:55	0° $\text{B}$	
evening rise	5660 Apr 27 04:36	17° $\text{B}$ 49'56		evening rise	5661 Apr 10 07:43	0° $\text{B}$ 40'09	
asc. node	5660 Apr 30 12:08	24° $\text{B}$ 06'32		asc. node	5661 Apr 17 09:11	13° $\text{B}$ 19'44	
	5660 May 03 17:32	0° $\text{II}$		evening max el	5661 Apr 26 17:48	26° $\text{B}$ 39'00	18°09'13
evening max el	5660 May 13 08:01	13° $\text{II}$ 47'05	18°29'45		5661 May 02 10:01	0° $\text{II}$	
retrograde	5660 May 20 23:07	17° $\text{II}$ 33'44		retrograde	5661 May 03 13:06	0° $\text{II}$ 05'47	
evening set	5660 May 23 05:04	17° $\text{II}$ 15'05			5661 May 04 16:25	30° $\text{R}$ $\text{B}$	
inferior conj	5660 May 30 18:31	12° $\text{II}$ 44'37	1°37'27	evening set	5661 May 06 02:00	29° $\text{B}$ 37'31	
minimum elong	5660 May 30 21:35	12° $\text{II}$ 38'32	1°36'26	inferior conj	5661 May 12 21:40	24° $\text{B}$ 46'20	2°41'00
min. Earth dist.	5660 Jun 03 04:05	10° $\text{II}$ 04'36	0.58085 AU	minimum elong	5661 May 13 00:54	24° $\text{B}$ 38'52	2°40'14
desc. node	5660 Jun 05 13:41	8° $\text{II}$ 24'40		min. Earth dist.	5661 May 16 05:14	21° $\text{B}$ 44'21	0.60261 AU
morning rise	5660 Jun 07 10:52	7° $\text{II}$ 20'50		morning rise	5661 May 19 21:20	18° $\text{B}$ 56'54	
direct	5660 Jun 13 08:58	5° $\text{II}$ 50'56		desc. node	5661 May 23 10:42	17° $\text{B}$ 19'02	
morning max el	5660 Jun 27 18:11	13° $\text{II}$ 30'45	26°53'27	direct	5661 May 26 10:29	16° $\text{B}$ 53'23	
	5660 Jul 10 20:04	0° $\text{E}$		morning max el	5661 Jun 09 18:22	24° $\text{B}$ 47'54	27°41'52
asc. node	5660 Jul 27 11:24	0° $\text{O}$ 16'57			5661 Jun 14 12:29	0° $\text{II}$	
	5660 Jul 27 08:11	0° $\text{O}$			5661 Jul 04 04:15	0° $\text{E}$	
morning set	5660 Jul 27 15:01	0° $\text{O}$ 35'57		morning set	5661 Jul 11 21:17	15° $\text{E}$ 06'53	
superior conj	5660 Aug 03 15:06	15° $\text{O}$ 50'35	1°08'22	asc. node	5661 Jul 14 08:26	20° $\text{E}$ 18'29	
minimum elong	5660 Aug 03 12:49	15° $\text{O}$ 37'58	1°07'59	max. Earth dist.	5661 Jul 18 02:59	28° $\text{E}$ 30'10	1.31944 AU
max. Earth dist.	5660 Aug 03 16:06	15° $\text{O}$ 56'05	1.31928 AU		5661 Jul 18 19:19	0° $\text{O}$	
evening rise	5660 Aug 10 11:20	0° $\text{P}$ 44'55		superior conj	5661 Jul 19 02:27	0° $\text{O}$ 39'18	0°47'41
	5660 Aug 10 02:51	0° $\text{P}$		minimum elong	5661 Jul 19 00:32	0° $\text{O}$ 28'47	0°47'18
	5660 Aug 26 08:34	0° $\text{A}$		evening rise	5661 Jul 25 21:27	15° $\text{O}$ 30'08	
desc. node	5660 Sep 01 12:55	8° $\text{A}$ 49'39			5661 Aug 02 01:56	0° $\text{P}$	
evening max el	5660 Sep 09 11:06	17° $\text{A}$ 48'02	26°43'10	desc. node	5661 Aug 19 09:56	26° $\text{P}$ 05'53	
retrograde	5660 Sep 23 09:01	24° $\text{A}$ 56'45		evening max el	5661 Aug 22 06:20	29° $\text{P}$ 01'56	25°33'48
evening set	5660 Sep 30 05:23	22° $\text{A}$ 57'41			5661 Aug 23 07:29	0° $\text{A}$	
min. Earth dist.	5660 Oct 04 01:00	20° $\text{A}$ 21'27	0.60090 AU	retrograde	5661 Sep 05 04:54	6° $\text{A}$ 06'36	
inferior conj	5660 Oct 07 06:19	17° $\text{A}$ 45'36	-4°33'30	evening set	5661 Sep 11 05:16	4° $\text{A}$ 42'12	
minimum elong	5660 Oct 07 12:36	17° $\text{A}$ 32'53	4°32'08	min. Earth dist.	5661 Sep 15 18:14	2° $\text{A}$ 04'29	0.58037 AU
morning rise	5660 Oct 14 21:52	13° $\text{A}$ 04'07		inferior conj	5661 Sep 18 21:03	29° $\text{P}$ 53'41	-5°12'20
direct	5660 Oct 17 05:24	12° $\text{A}$ 44'07		minimum elong	5661 Sep 19 00:38	29° $\text{P}$ 47'22	5°11'59
asc. node	5660 Oct 23 10:41	15° $\text{A}$ 16'32			5661 Sep 18 17:28	30° $\text{R}$ $\text{P}$	
morning max el	5660 Oct 24 17:53	16° $\text{A}$ 26'07	18°09'58	morning rise	5661 Sep 26 22:17	25° $\text{P}$ 35'35	
	5660 Nov 03 06:31	0° $\text{M}$		direct	5661 Sep 29 09:15	25° $\text{P}$ 16'54	
morning set	5660 Nov 09 12:38	11° $\text{M}$ 29'29		morning max el	5661 Oct 07 22:32	29° $\text{P}$ 21'28	18°49'28
superior conj	5660 Nov 19 02:01	29° $\text{M}$ 12'58	1°04'17		5661 Oct 08 14:09	0° $\text{A}$	
minimum elong	5660 Nov 19 05:52	29° $\text{M}$ 30'19	1°03'49	asc. node	5661 Oct 10 07:43	1° $\text{A}$ 55'21	
	5660 Nov 19 12:29	0° $\text{J}$		morning set	5661 Oct 24 09:10	25° $\text{A}$ 41'19	
max. Earth dist.	5660 Nov 26 17:35	12° $\text{J}$ 33'34	1.41403 AU		5661 Oct 26 13:53	0° $\text{M}$	
desc. node	5660 Nov 28 12:12	15° $\text{J}$ 32'04		superior conj	5661 Nov 01 21:41	12° $\text{M}$ 15'39	1°26'15
evening rise	5660 Dec 01 18:40	20° $\text{J}$ 54'05		minimum elong	5661 Nov 02 00:48	12° $\text{M}$ 30'25	1°25'58
	5660 Dec 07 12:29	0° $\text{Z}$		max. Earth dist.	5661 Nov 08 23:33	25° $\text{M}$ 15'30	1.39311 AU
	5660 Dec 28 14:05	0° $\text{Z}$			5661 Nov 11 16:39	0° $\text{J}$	

evening rise	5661 Nov 12 21:53	2°♄05'10		desc. node	5662 Nov 02 06:12	26°♄49'17	
desc. node	5661 Nov 15 09:11	6°♄14'26			5662 Nov 04 05:04	0°♄	
	5661 Nov 30 18:59	0°♄			5662 Nov 25 14:15	0°♄	
evening max el	5661 Dec 18 03:13	21°♄42'31	24°18'00	evening max el	5662 Nov 30 15:50	5°♄26'51	25°32'00
retrograde	5661 Dec 29 09:41	28°♄19'04		retrograde	5662 Dec 12 21:04	12°♄28'05	
evening set	5662 Jan 03 18:31	26°♄04'45		evening set	5662 Dec 18 19:15	10°♄00'47	
asc. node	5662 Jan 06 06:58	23°♄28'50		min. Earth dist.	5662 Dec 23 04:26	5°♄12'36	0.67230 AU
min. Earth dist.	5662 Jan 08 11:02	20°♄42'12	0.67869 AU	inferior conj	5662 Dec 24 10:34	3°♄35'57	0°05'35
inferior conj	5662 Jan 09 06:10	19°♄37'53	0°59'06	minimum elong	5662 Dec 24 10:25	3°♄36'25	0°05'33
minimum elong	5662 Jan 09 04:48	19°♄42'26	0°58'35	transit middle	5662 Dec 24 10:25	3°♄36'25	0°05'33
morning rise	5662 Jan 14 15:11	13°♄35'52		transit begin	5662 Dec 24 07:47	3°♄44'53	
direct	5662 Jan 18 11:46	12°♄11'00		transit end	5662 Dec 24 13:03	3°♄27'58	
morning max el	5662 Jan 26 05:59	16°♄35'32	20°14'41	asc. node	5662 Dec 24 03:59	3°♄57'07	
	5662 Feb 05 21:20	0°♄			5662 Dec 27 10:17	30°♄♄	
desc. node	5662 Feb 11 08:28	7°♄56'29		morning rise	5662 Dec 30 01:58	27°♄41'38	
morning set	5662 Feb 23 00:29	25°♄37'59		direct	5663 Jan 02 10:37	26°♄36'39	
	5662 Feb 25 19:59	0°♄			5663 Jan 08 22:32	0°♄	
max. Earth dist.	5662 Mar 05 01:53	11°♄27'05	1.43737 AU	morning max el	5663 Jan 09 11:14	0°♄30'48	19°13'33
				greatest brilliancy	5663 Jan 22 23:19	18°♄38'49	-0.7m
superior conj	5662 Mar 11 00:04	21°♄04'38	-2°09'06	desc. node	5663 Jan 29 05:30	28°♄13'21	
minimum elong	5662 Mar 10 22:41	20°♄58'55	2°09'05		5663 Jan 30 09:07	0°♄	
	5662 Mar 16 08:19	0°♄		morning set	5663 Feb 02 01:02	4°♄07'24	
evening rise	5662 Mar 23 17:33	12°♄40'53		max. Earth dist.	5663 Feb 15 16:06	25°♄23'44	1.44903 AU
	5662 Apr 02 22:10	0°♄					
asc. node	5662 Apr 04 06:12	2°♄04'37		superior conj	5663 Feb 18 17:51	0°♄15'20	-1°55'01
evening max el	5662 Apr 10 06:26	9°♄50'34	18°08'10	minimum elong	5663 Feb 18 10:11	29°♄44'55	1°54'29
retrograde	5662 Apr 16 17:01	13°♄12'39			5663 Feb 18 13:59	0°♄	
evening set	5662 Apr 19 12:24	12°♄32'59		evening rise	5663 Mar 05 05:55	23°♄45'03	
inferior conj	5662 Apr 25 18:15	7°♄22'15	3°16'47		5663 Mar 09 00:35	0°♄	
minimum elong	5662 Apr 25 20:13	7°♄17'04	3°16'32	asc. node	5663 Mar 22 03:14	20°♄12'29	
min. Earth dist.	5662 Apr 28 14:58	4°♄22'38	0.62438 AU	evening max el	5663 Mar 24 18:59	23°♄14'35	18°25'47
morning rise	5662 May 02 02:30	1°♄17'35		retrograde	5663 Mar 31 06:19	26°♄45'16	
	5662 May 04 03:42	30°♄♄		evening set	5663 Apr 03 08:10	25°♄52'59	
direct	5662 May 08 22:19	28°♄46'19		inferior conj	5663 Apr 09 04:07	20°♄24'07	3°30'38
desc. node	5662 May 10 07:44	28°♄52'11		minimum elong	5663 Apr 09 04:30	20°♄23'00	3°30'38
	5662 May 14 00:30	0°♄		min. Earth dist.	5663 Apr 11 10:01	17°♄47'13	0.64385 AU
morning max el	5662 May 23 00:21	6°♄47'28	27°52'35	morning rise	5663 Apr 15 00:02	14°♄12'05	
	5662 Jun 09 15:47	0°♄		direct	5663 Apr 21 18:27	11°♄25'11	
morning set	5662 Jun 25 22:02	29°♄18'49		desc. node	5663 Apr 27 04:46	12°♄54'54	
	5662 Jun 26 06:09	0°♄		morning max el	5663 May 05 09:37	19°♄22'28	27°26'59
asc. node	5662 Jul 01 05:27	10°♄24'53			5663 May 14 10:22	0°♄	
max. Earth dist.	5662 Jul 01 10:07	10°♄49'55	1.32388 AU		5663 Jun 02 15:38	0°♄	
				morning set	5663 Jun 09 14:38	13°♄03'32	
superior conj	5662 Jul 03 11:37	15°♄17'43	0°23'16	max. Earth dist.	5663 Jun 14 09:34	22°♄43'44	1.33292 AU
minimum elong	5662 Jul 03 10:33	15°♄11'54	0°23'01				
evening rise	5662 Jul 10 09:08	0°♄16'45		superior conj	5663 Jun 17 16:41	29°♄39'29	-0°04'15
	5662 Jul 10 06:00	0°♄		minimum elong	5663 Jun 17 16:54	29°♄40'38	0°04'14
	5662 Jul 26 18:52	0°♄		behind sun begin	5663 Jun 17 11:36	29°♄12'32	
evening max el	5662 Aug 03 19:26	9°♄35'13	24°02'35	behind sun end	5663 Jun 17 22:11	0°♄08'47	
desc. node	5662 Aug 06 06:57	11°♄47'24			5663 Jun 17 20:32	0°♄	
retrograde	5662 Aug 17 13:34	16°♄30'20		asc. node	5663 Jun 18 02:29	0°♄31'42	
evening set	5662 Aug 22 04:55	15°♄42'44		evening rise	5663 Jun 24 20:31	14°♄58'23	
min. Earth dist.	5662 Aug 28 05:59	12°♄44'45	0.56253 AU		5663 Jul 02 09:25	0°♄	
inferior conj	5662 Aug 30 15:35	11°♄16'10	-5°17'42	evening max el	5663 Jul 16 09:05	19°♄55'24	22°24'50
minimum elong	5662 Aug 30 13:09	11°♄19'56	5°17'34	desc. node	5663 Jul 24 03:59	25°♄20'26	
morning rise	5662 Sep 07 23:52	7°♄18'04		retrograde	5663 Jul 29 09:39	26°♄23'51	
direct	5662 Sep 10 17:38	6°♄58'38		evening set	5663 Aug 01 12:50	26°♄02'14	
morning max el	5662 Sep 20 16:41	11°♄37'33	19°50'52	min. Earth dist.	5663 Aug 09 15:56	22°♄29'59	0.55083 AU
asc. node	5662 Sep 27 04:44	19°♄34'32		inferior conj	5663 Aug 10 16:27	21°♄55'16	-4°33'54
	5662 Oct 03 07:57	0°♄		minimum elong	5663 Aug 10 08:17	22°♄06'50	4°32'12
morning set	5662 Oct 08 12:57	10°♄13'33		morning rise	5663 Aug 19 05:35	18°♄05'37	
				direct	5663 Aug 22 09:12	17°♄43'06	
superior conj	5662 Oct 16 08:16	26°♄02'06	1°38'45	morning max el	5663 Sep 02 22:27	23°♄06'47	21°13'27
minimum elong	5662 Oct 16 09:56	26°♄10'23	1°38'40		5663 Sep 08 21:45	0°♄	
	5662 Oct 18 08:30	0°♄		asc. node	5663 Sep 14 01:46	7°♄59'40	
max. Earth dist.	5662 Oct 22 04:40	7°♄21'29	1.37220 AU	morning set	5663 Sep 22 21:19	24°♄57'53	
evening rise	5662 Oct 25 23:12	14°♄16'54			5663 Sep 25 07:09	0°♄	

































































































































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minimum elong	5663 Sep 30 05:29	10°♌19'13	1°43'07				
max. Earth dist.	5663 Oct 04 14:44	19°♌13'46	1.35354 AU	superior conj	5664 Sep 13 09:32	24°♏54'53	1°40'33
evening rise	5663 Oct 08 18:50	27°♌18'42		minimum elong	5664 Sep 13 08:28	24°♏49'11	1°40'31
	5663 Oct 10 05:20	0°♍			5664 Sep 15 19:09	0°♌	
desc. node	5663 Oct 20 03:14	17°♍10'47		max. Earth dist.	5664 Sep 16 09:20	1°♌14'12	1.33852 AU
	5663 Oct 28 13:04	0°♎		evening rise	5664 Sep 21 04:36	10°♌59'39	
evening max el	5663 Nov 13 04:45	19°♎09'18	26°33'07		5664 Oct 01 14:00	0°♍	
retrograde	5663 Nov 26 03:11	26°♎23'37		desc. node	5664 Oct 06 00:16	7°♍12'42	
evening set	5663 Dec 02 14:08	23°♎47'16			5664 Oct 23 02:02	0°♎	
min. Earth dist.	5663 Dec 06 16:44	19°♎34'09	0.66235 AU	evening max el	5664 Oct 25 17:32	2°♎40'22	27°13'49
inferior conj	5663 Dec 08 10:14	17°♎29'47	-0°53'23	retrograde	5664 Nov 08 03:18	9°♎58'18	
minimum elong	5663 Dec 08 11:43	17°♎25'21	0°52'43	evening set	5664 Nov 15 00:54	7°♎19'06	
asc. node	5663 Dec 11 01:01	14°♎30'46		min. Earth dist.	5664 Nov 18 21:31	3°♎40'52	0.64890 AU
morning rise	5663 Dec 14 10:02	11°♎45'44		inferior conj	5664 Nov 21 02:53	1°♎14'22	-1°56'21
direct	5663 Dec 17 08:42	10°♎57'05		minimum elong	5664 Nov 21 06:17	1°♎05'00	1°54'58
morning max el	5663 Dec 23 22:59	14°♎32'02	18°28'27		5664 Nov 22 06:17	30°♏	
	5664 Jan 04 07:19	0°♐		asc. node	5664 Nov 26 22:04	26°♏02'19	
morning set	5664 Jan 13 01:23	13°♐52'37		morning rise	5664 Nov 27 12:51	25°♏43'42	
desc. node	5664 Jan 16 02:32	18°♐43'49		direct	5664 Nov 30 03:44	25°♏07'34	
	5664 Jan 23 05:30	0°♑		morning max el	5664 Dec 06 14:49	28°♏33'13	18°00'10
					5664 Dec 07 23:16	0°♎	
superior conj	5664 Jan 28 21:40	8°♑54'40	-1°21'41	morning set	5664 Dec 24 07:24	25°♎06'30	
minimum elong	5664 Jan 28 12:32	8°♑18'51	1°20'40		5664 Dec 27 06:07	0°♐	
max. Earth dist.	5664 Jan 29 10:37	9°♑45'25	1.45364 AU	desc. node	5665 Jan 01 23:33	9°♐23'22	
	5664 Feb 11 07:58	0°♑					
evening rise	5664 Feb 13 19:01	3°♑53'12		superior conj	5665 Jan 07 07:08	17°♐56'23	-0°36'37
greatest brilliancy	5664 Feb 23 08:54	19°♑00'14	-0.8m	minimum elong	5665 Jan 07 02:41	17°♐38'39	0°35'59
	5664 Mar 01 17:18	0°♒		max. Earth dist.	5665 Jan 11 06:27	24°♐14'00	1.45075 AU
evening max el	5664 Mar 07 05:00	6°♒45'33	19°01'05		5665 Jan 14 22:39	0°♑	
asc. node	5664 Mar 08 00:16	7°♒32'32		evening rise	5665 Jan 23 12:50	13°♑19'31	
retrograde	5664 Mar 14 01:20	10°♒36'39			5665 Feb 03 10:45	0°♑	
evening set	5664 Mar 17 10:10	9°♒30'53		greatest brilliancy	5665 Feb 06 14:02	4°♑40'59	-0.6m
inferior conj	5664 Mar 22 23:35	3°♒45'25	3°27'44	evening max el	5665 Feb 18 10:34	20°♑19'11	19°52'29
minimum elong	5664 Mar 22 22:37	3°♒48'28	3°27'40	asc. node	5665 Feb 22 21:19	23°♑51'07	
min. Earth dist.	5664 Mar 24 13:53	1°♒44'22	0.65962 AU	retrograde	5665 Feb 25 23:08	24°♑40'54	
	5664 Mar 26 00:32	30°♒		evening set	5665 Mar 01 15:57	23°♑20'54	
morning rise	5664 Mar 28 10:40	27°♒30'38		inferior conj	5665 Mar 07 01:34	17°♒20'45	3°11'49
direct	5664 Apr 03 21:21	24°♒41'44		minimum elong	5665 Mar 06 23:40	17°♒27'04	3°11'30
desc. node	5664 Apr 13 01:49	28°♒55'16		min. Earth dist.	5665 Mar 08 01:12	16°♒01'43	0.67114 AU
	5664 Apr 14 08:04	0°♓		morning rise	5665 Mar 12 07:11	11°♒05'47	
morning max el	5664 Apr 16 19:36	2°♓21'54	26°31'21	direct	5665 Mar 18 05:56	8°♒26'22	
	5664 May 07 15:03	0°♈		morning max el	5665 Mar 30 04:49	15°♒35'03	25°14'33
morning set	5664 May 22 19:43	26°♈11'13		desc. node	5665 Mar 30 22:51	16°♒21'26	
	5664 May 24 19:41	0°♉			5665 Apr 11 01:38	0°♓	
max. Earth dist.	5664 May 26 22:24	4°♉07'34	1.34669 AU		5665 Apr 30 12:39	0°♈	
				morning set	5665 May 05 08:40	8°♈28'36	
superior conj	5664 May 31 15:20	13°♉38'03	-0°33'48	max. Earth dist.	5665 May 09 00:35	15°♈11'34	1.36489 AU
minimum elong	5664 May 31 17:12	13°♉47'36	0°33'27				
asc. node	5664 Jun 03 23:32	20°♉35'07		superior conj	5665 May 15 04:41	27°♈04'46	-1°03'58
evening rise	5664 Jun 08 05:40	29°♉29'08		minimum elong	5665 May 15 08:18	27°♈22'38	1°03'21
	5664 Jun 08 11:38	0°♊			5665 May 16 15:54	0°♉	
	5664 Jun 26 17:06	0°♋		asc. node	5665 May 21 20:34	10°♉30'23	
evening max el	5664 Jun 27 07:15	0°♋35'34	20°55'18	evening rise	5665 May 23 10:18	13°♉41'33	
retrograde	5664 Jul 08 22:03	6°♋18'36			5665 Jun 01 00:20	0°♊	
desc. node	5664 Jul 10 01:01	6°♋15'34		evening max el	5665 Jun 09 17:45	11°♊54'16	19°42'49
evening set	5664 Jul 11 01:55	6°♋07'31		retrograde	5665 Jun 19 15:18	16°♊45'10	
inferior conj	5664 Jul 20 09:29	2°♋10'19	-3°00'31	evening set	5665 Jun 21 13:01	16°♊35'10	
minimum elong	5664 Jul 20 01:28	2°♋21'39	2°57'53	desc. node	5665 Jun 26 22:04	14°♊34'54	
min. Earth dist.	5664 Jul 21 02:24	1°♋46'22	0.54791 AU	inferior conj	5665 Jun 30 09:07	12°♊32'18	-1°02'23
	5664 Jul 24 09:12	30°♋		minimum elong	5665 Jun 30 06:15	12°♊36'45	1°01'19
morning rise	5664 Jul 29 01:04	28°♋10'48		min. Earth dist.	5665 Jul 02 14:58	11°♋08'42	0.55456 AU
direct	5664 Aug 01 18:16	27°♋41'09		morning rise	5665 Jul 08 21:17	8°♋03'54	
	5664 Aug 09 15:00	0°♌		5665 Jul 13 09:13	7°♋19'10		
morning max el	5664 Aug 14 17:28	3°♌53'07	22°52'23	direct			
asc. node	5664 Aug 30 22:49	26°♌59'54		morning max el	5665 Jul 27 07:12	14°♋14'39	24°36'44
	5664 Sep 01 12:30	0°♍		asc. node	5665 Aug 08 16:06	0°♌	
					5665 Aug 17 19:52	16°♌25'41	

morning set	5665 Aug 21 20:01	24° $\Omega$ 41'11			5666 Aug 01 15:43	0° $\Omega$	
	5665 Aug 24 07:24	0° $\mathbb{M}$		asc. node	5666 Aug 04 16:53	6° $\Omega$ 09'45	
				morning set	5666 Aug 06 06:58	9° $\Omega$ 29'15	
superior conj	5665 Aug 28 18:18	9° $\mathbb{M}$ 43'24	1°32'03				
minimum elong	5665 Aug 28 16:24	9° $\mathbb{M}$ 33'03	1°31'53	superior conj	5666 Aug 13 05:30	24° $\Omega$ 36'51	1°18'22
max. Earth dist.	5665 Aug 30 12:13	13° $\mathbb{M}$ 31'07	1.32760 AU	minimum elong	5666 Aug 13 03:13	24° $\Omega$ 24'18	1°18'03
evening rise	5665 Sep 05 00:45	25° $\mathbb{M}$ 09'20		max. Earth dist.	5666 Aug 13 20:49	26° $\Omega$ 01'21	1.32099 AU
	5665 Sep 07 10:42	0° $\underline{\Omega}$			5666 Aug 15 16:16	0° $\mathbb{M}$	
desc. node	5665 Sep 22 21:17	26° $\underline{\Omega}$ 46'51		evening rise	5666 Aug 20 04:13	9° $\mathbb{M}$ 38'41	
	5665 Sep 25 02:02	0° $\mathbb{M}$			5666 Aug 30 18:12	0° $\underline{\Omega}$	
evening max el	5665 Oct 08 04:25	15° $\mathbb{M}$ 47'33	27°27'28	desc. node	5666 Sep 09 18:19	15° $\underline{\Omega}$ 41'16	
retrograde	5665 Oct 21 21:03	23° $\mathbb{M}$ 03'46		evening max el	5666 Sep 20 10:53	28° $\underline{\Omega}$ 17'17	27°09'06
evening set	5665 Oct 29 00:43	20° $\mathbb{M}$ 30'41			5666 Sep 22 08:43	0° $\mathbb{M}$	
min. Earth dist.	5665 Nov 01 16:46	17° $\mathbb{M}$ 24'10	0.63215 AU	retrograde	5666 Oct 04 07:42	5° $\mathbb{M}$ 29'43	
inferior conj	5665 Nov 04 09:52	14° $\mathbb{M}$ 43'32	-3°00'50	evening set	5666 Oct 11 09:41	3° $\mathbb{M}$ 14'31	
minimum elong	5665 Nov 04 15:10	14° $\mathbb{M}$ 30'26	2°58'56	min. Earth dist.	5666 Oct 15 01:26	0° $\mathbb{M}$ 31'13	0.61269 AU
morning rise	5665 Nov 11 07:16	9° $\mathbb{M}$ 29'41			5666 Oct 15 16:07	30° $\mathbb{R}$ $\underline{\Omega}$	
direct	5665 Nov 13 16:49	9° $\mathbb{M}$ 02'26		inferior conj	5666 Oct 18 03:57	27° $\underline{\Omega}$ 48'42	-4°02'24
asc. node	5665 Nov 13 19:08	9° $\mathbb{M}$ 02'28		minimum elong	5666 Oct 18 10:23	27° $\underline{\Omega}$ 34'37	4°00'36
morning max el	5665 Nov 20 07:49	12° $\mathbb{M}$ 27'42	17°49'18	morning rise	5666 Oct 25 13:07	22° $\underline{\Omega}$ 54'50	
	5665 Dec 02 06:27	0° $\mathbb{X}$		direct	5666 Oct 27 20:15	22° $\underline{\Omega}$ 33'10	
morning set	5665 Dec 06 14:35	7° $\mathbb{X}$ 33'15		asc. node	5666 Oct 31 16:11	23° $\underline{\Omega}$ 35'58	
				morning max el	5666 Nov 03 22:43	26° $\underline{\Omega}$ 06'39	17°56'48
superior conj	5665 Dec 18 14:33	28° $\mathbb{X}$ 04'32	0°08'52		5666 Nov 07 06:42	0° $\mathbb{M}$	
minimum elong	5665 Dec 18 15:28	28° $\mathbb{X}$ 08'19	0°08'45	morning set	5666 Nov 19 16:23	20° $\mathbb{M}$ 52'32	
behind sun begin	5665 Dec 18 07:30	27° $\mathbb{X}$ 35'17			5666 Nov 24 16:20	0° $\mathbb{X}$	
behind sun end	5665 Dec 18 23:26	28° $\mathbb{X}$ 41'17					
desc. node	5665 Dec 19 20:33	0° $\mathbb{Z}$ 08'27		superior conj	5666 Nov 30 00:17	9° $\mathbb{X}$ 28'58	0°46'55
	5665 Dec 19 18:30	0° $\mathbb{Z}$		minimum elong	5666 Nov 30 03:51	9° $\mathbb{X}$ 44'27	0°46'27
max. Earth dist.	5665 Dec 25 00:10	8° $\mathbb{Z}$ 30'17	1.44079 AU	desc. node	5666 Dec 06 17:33	20° $\mathbb{X}$ 55'15	
evening rise	5666 Jan 02 23:11	22° $\mathbb{Z}$ 34'33		max. Earth dist.	5666 Dec 07 13:04	22° $\mathbb{X}$ 16'03	1.42500 AU
	5666 Jan 07 19:47	0° $\approx$			5666 Dec 12 07:27	0° $\mathbb{Z}$	
	5666 Jan 28 23:21	0° $\mathbb{X}$		evening rise	5666 Dec 13 17:42	2° $\mathbb{Z}$ 16'04	
evening max el	5666 Feb 01 10:40	3° $\mathbb{X}$ 54'07	20°57'34		5667 Jan 01 07:03	0° $\approx$	
retrograde	5666 Feb 09 21:28	8° $\mathbb{X}$ 53'43		evening max el	5667 Jan 15 05:28	17° $\approx$ 30'15	22°12'38
asc. node	5666 Feb 09 18:22	8° $\mathbb{X}$ 53'37		retrograde	5667 Jan 24 18:19	23° $\approx$ 10'25	
evening set	5666 Feb 13 23:33	7° $\mathbb{X}$ 18'53		asc. node	5667 Jan 27 15:25	22° $\approx$ 26'52	
inferior conj	5666 Feb 19 07:36	1° $\mathbb{X}$ 06'40	2°45'24	evening set	5667 Jan 29 07:14	21° $\approx$ 20'17	
minimum elong	5666 Feb 19 05:15	1° $\mathbb{X}$ 14'44	2°44'49	inferior conj	5667 Feb 03 15:32	14° $\approx$ 59'21	2°10'07
min. Earth dist.	5666 Feb 19 18:01	0° $\mathbb{X}$ 30'43	0.67836 AU	minimum elong	5667 Feb 03 13:13	15° $\approx$ 07'24	2°09'23
	5666 Feb 20 02:57	30° $\mathbb{R}$ $\approx$		min. Earth dist.	5667 Feb 03 14:00	15° $\approx$ 04'40	0.68149 AU
morning rise	5666 Feb 24 10:48	24° $\approx$ 53'10		morning rise	5667 Feb 08 19:02	8° $\approx$ 48'49	
direct	5666 Mar 01 19:33	22° $\approx$ 31'07		direct	5667 Feb 13 13:15	6° $\approx$ 48'21	
morning max el	5666 Mar 12 13:42	28° $\approx$ 55'55	23°46'47	morning max el	5667 Feb 23 00:44	12° $\approx$ 22'58	22°17'58
	5666 Mar 13 14:29	0° $\mathbb{X}$		desc. node	5667 Mar 04 16:51	24° $\approx$ 01'05	
desc. node	5666 Mar 17 19:52	4° $\mathbb{X}$ 49'20			5667 Mar 09 01:00	0° $\mathbb{X}$	
	5666 Apr 04 20:11	0° $\mathbb{Y}$		morning set	5667 Mar 28 11:57	29° $\mathbb{X}$ 35'59	
morning set	5666 Apr 16 23:56	19° $\mathbb{Y}$ 41'26			5667 Mar 28 17:51	0° $\mathbb{Y}$	
max. Earth dist.	5666 Apr 20 20:27	26° $\mathbb{Y}$ 23'27	1.38618 AU	max. Earth dist.	5667 Apr 02 17:10	8° $\mathbb{Y}$ 14'04	1.40814 AU
	5666 Apr 22 20:59	0° $\mathbb{Z}$					
superior conj	5666 Apr 28 05:09	9° $\mathbb{Z}$ 51'09	-1°32'21	superior conj	5667 Apr 10 12:16	21° $\mathbb{Y}$ 46'40	-1°55'28
minimum elong	5666 Apr 28 10:06	10° $\mathbb{Z}$ 14'29	1°31'43	minimum elong	5667 Apr 10 17:06	22° $\mathbb{Y}$ 08'19	1°55'06
evening rise	5666 May 07 07:47	27° $\mathbb{Z}$ 28'50			5667 Apr 15 00:53	0° $\mathbb{Z}$	
asc. node	5666 May 08 17:36	0° $\mathbb{II}$ 13'26		evening rise	5667 Apr 20 18:43	10° $\mathbb{Z}$ 42'25	
	5666 May 08 14:50	0° $\mathbb{II}$		asc. node	5667 Apr 25 14:39	19° $\mathbb{Z}$ 39'21	
evening max el	5666 May 23 15:54	23° $\mathbb{II}$ 55'02	18°50'30		5667 May 01 18:07	0° $\mathbb{II}$	
retrograde	5666 Jun 01 00:08	28° $\mathbb{II}$ 01'05		evening max el	5667 May 06 22:33	6° $\mathbb{II}$ 31'35	18°18'39
evening set	5666 Jun 03 01:54	27° $\mathbb{II}$ 46'51		retrograde	5667 May 14 03:52	10° $\mathbb{II}$ 07'46	
inferior conj	5666 Jun 11 02:49	23° $\mathbb{II}$ 27'57	0°46'49	evening set	5667 May 16 12:44	9° $\mathbb{II}$ 45'25	
minimum elong	5666 Jun 11 04:35	23° $\mathbb{II}$ 24'44	0°46'09	inferior conj	5667 May 23 18:14	5° $\mathbb{II}$ 06'28	2°08'06
desc. node	5666 Jun 13 19:06	21° $\mathbb{II}$ 31'56		minimum elong	5667 May 23 21:38	4° $\mathbb{II}$ 59'15	2°07'07
min. Earth dist.	5666 Jun 14 07:10	21° $\mathbb{II}$ 10'54	0.56954 AU	min. Earth dist.	5667 May 27 04:36	2° $\mathbb{II}$ 13'42	0.58988 AU
morning rise	5666 Jun 19 03:54	18° $\mathbb{II}$ 22'45			5667 May 30 07:10	30° $\mathbb{R}$ $\mathbb{Z}$	
direct	5666 Jun 24 13:59	17° $\mathbb{II}$ 11'42		morning rise	5667 May 31 03:29	29° $\mathbb{Z}$ 30'16	
morning max el	5666 Jul 08 22:06	24° $\mathbb{II}$ 39'43	26°10'33	desc. node	5667 May 31 16:07	29° $\mathbb{Z}$ 13'31	
	5666 Jul 13 20:02	0° $\mathbb{Z}$		direct	5667 Jun 06 09:01	27° $\mathbb{Z}$ 45'30	
					5667 Jun 13 17:56	0° $\mathbb{II}$	

morning max el	5667 Jun 20 18:21	5°♄33'31	27°18'30		5668 Jun 12 12:41	0°♄	
	5667 Jul 08 21:13	0°♄			5668 Jun 30 13:08	0°♄	
morning set	5667 Jul 21 15:28	24°♄08'22		morning set	5668 Jul 04 19:37	8°♄31'40	
asc. node	5667 Jul 22 13:54	26°♄06'37		asc. node	5668 Jul 08 10:55	16°♄10'38	
	5667 Jul 24 09:28	0°♄		max. Earth dist.	5668 Jul 10 17:31	21°♄06'08	1.32078 AU
superior conj	5667 Jul 28 17:19	9°♄29'32	1°00'07	superior conj	5668 Jul 12 03:57	24°♄14'31	0°37'46
minimum elong	5667 Jul 28 15:08	9°♄17'29	0°59'42	minimum elong	5668 Jul 12 02:20	24°♄05'41	0°37'24
max. Earth dist.	5667 Jul 28 07:50	8°♄37'05	1.31872 AU		5668 Jul 14 18:47	0°♄	
evening rise	5667 Aug 04 12:32	24°♄20'36		evening rise	5668 Jul 18 23:32	9°♄07'12	
	5667 Aug 07 05:40	0°♄			5668 Jul 29 16:42	0°♄	
	5667 Aug 24 19:13	0°♄		desc. node	5668 Aug 13 12:23	20°♄19'35	
desc. node	5667 Aug 27 15:20	3°♄39'57		evening max el	5668 Aug 14 03:06	20°♄55'27	24°56'58
evening max el	5667 Sep 02 10:45	10°♄00'35	26°17'18	retrograde	5668 Aug 28 00:47	27°♄56'33	
retrograde	5667 Sep 16 09:44	17°♄08'16		evening set	5668 Sep 02 12:18	26°♄48'37	
evening set	5667 Sep 22 23:02	15°♄23'13		min. Earth dist.	5668 Sep 07 14:31	24°♄04'14	0.57226 AU
min. Earth dist.	5667 Sep 27 00:00	12°♄48'27	0.59196 AU	inferior conj	5668 Sep 10 11:48	22°♄09'54	-5°19'46
inferior conj	5667 Sep 30 05:38	10°♄20'53	-4°53'02	minimum elong	5668 Sep 10 13:09	22°♄07'40	5°19'43
minimum elong	5667 Sep 30 11:12	10°♄10'14	4°52'04	morning rise	5668 Sep 18 16:17	18°♄00'42	
morning rise	5667 Oct 08 01:36	5°♄49'16		direct	5668 Sep 21 05:52	17°♄41'49	
direct	5667 Oct 10 09:56	5°♄30'14		morning max el	5668 Sep 30 08:30	21°♄59'51	19°12'52
morning max el	5667 Oct 18 08:06	9°♄20'59	18°24'07	asc. node	5668 Oct 04 10:11	26°♄39'07	
asc. node	5667 Oct 18 13:11	9°♄33'21			5668 Oct 06 18:18	0°♄	
	5667 Oct 31 18:37	0°♄		morning set	5668 Oct 17 07:21	19°♄10'26	
morning set	5667 Nov 03 07:22	4°♄49'02			5668 Oct 22 17:48	0°♄	
superior conj	5667 Nov 12 09:08	22°♄00'10	1°14'48	superior conj	5668 Oct 25 11:42	5°♄22'38	1°32'38
minimum elong	5667 Nov 12 12:49	22°♄17'08	1°14'24	minimum elong	5668 Oct 25 14:14	5°♄34'56	1°32'26
	5667 Nov 16 19:19	0°♄		max. Earth dist.	5668 Nov 01 02:17	17°♄47'25	1.38411 AU
max. Earth dist.	5667 Nov 19 21:01	5°♄21'48	1.40533 AU	evening rise	5668 Nov 04 20:49	24°♄29'58	
desc. node	5667 Nov 23 14:34	11°♄40'34			5668 Nov 08 01:57	0°♄	
evening rise	5667 Nov 24 07:53	12°♄52'21		desc. node	5668 Nov 09 11:36	2°♄20'23	
	5667 Dec 05 04:26	0°♄			5668 Nov 27 21:39	0°♄	
	5667 Dec 27 17:11	0°♄		evening max el	5668 Dec 10 09:35	14°♄53'42	24°50'38
evening max el	5667 Dec 28 20:28	1°♄10'01	23°32'26	retrograde	5668 Dec 22 02:07	21°♄41'19	
retrograde	5668 Jan 08 12:14	7°♄27'36		evening set	5668 Dec 27 16:40	19°♄21'18	
evening set	5668 Jan 13 13:27	5°♄22'08		asc. node	5668 Dec 31 09:28	15°♄19'53	
asc. node	5668 Jan 14 12:27	4°♄29'08		min. Earth dist.	5669 Jan 01 06:02	14°♄13'19	0.67645 AU
	5668 Jan 18 04:53	30°♄		inferior conj	5669 Jan 02 05:46	12°♄54'59	0°37'10
inferior conj	5668 Jan 18 23:30	28°♄56'19	1°27'05	minimum elong	5669 Jan 02 04:52	12°♄57'57	0°36'50
minimum elong	5668 Jan 18 21:40	29°♄02'36	1°26'25	morning rise	5669 Jan 07 17:14	6°♄55'57	
min. Earth dist.	5668 Jan 18 10:47	29°♄39'53	0.68082 AU	direct	5669 Jan 11 08:38	5°♄39'43	
morning rise	5668 Jan 24 05:51	22°♄50'32		morning max el	5669 Jan 18 18:16	9°♄49'29	19°46'48
direct	5668 Jan 28 10:04	21°♄12'47		greatest brilliancy	5669 Jan 31 19:53	26°♄57'11	-0.6m
morning max el	5668 Feb 05 17:30	26°♄00'00	20°56'11		5669 Feb 02 21:11	0°♄	
	5668 Feb 09 08:12	0°♄		desc. node	5669 Feb 05 10:52	3°♄51'33	
desc. node	5668 Feb 19 13:51	13°♄44'39		morning set	5669 Feb 13 17:08	16°♄28'24	
	5668 Mar 01 12:25	0°♄			5669 Feb 22 09:34	0°♄	
morning set	5668 Mar 06 20:44	8°♄15'40		max. Earth dist.	5669 Feb 25 08:09	4°♄39'10	1.44321 AU
max. Earth dist.	5668 Mar 14 20:39	21°♄00'43	1.42802 AU				
	5668 Mar 20 07:10	0°♄		superior conj	5669 Mar 02 04:31	12°♄25'41	-2°05'36
superior conj	5668 Mar 21 21:05	2°♄39'52	-2°08'28	minimum elong	5669 Mar 02 00:19	12°♄08'40	2°05'26
minimum elong	5668 Mar 21 22:57	2°♄47'48	2°08'26		5669 Mar 12 19:38	0°♄	
evening rise	5668 Apr 02 15:00	23°♄12'16		evening rise	5669 Mar 15 16:13	4°♄50'18	
	5668 Apr 06 10:28	0°♄		asc. node	5669 Mar 29 08:44	27°♄12'07	
asc. node	5668 Apr 11 11:41	8°♄41'22			5669 Mar 31 10:38	0°♄	
evening max el	5668 Apr 19 10:01	19°♄33'18	18°06'31	evening max el	5669 Apr 02 23:01	2°♄51'38	18°13'23
retrograde	5668 Apr 26 00:11	22°♄55'56		retrograde	5669 Apr 09 08:41	6°♄15'38	
evening set	5668 Apr 28 15:59	22°♄22'53		evening set	5669 Apr 12 06:54	5°♄30'32	
inferior conj	5668 May 05 05:17	17°♄23'24	2°59'14	inferior conj	5669 Apr 18 08:03	0°♄11'40	3°25'00
minimum elong	5668 May 05 08:04	17°♄16'34	2°58'41	minimum elong	5669 Apr 18 09:21	0°♄08'06	3°24'53
min. Earth dist.	5668 May 08 09:06	14°♄19'34	0.61207 AU		5669 Apr 18 12:17	30°♄	
morning rise	5668 May 11 22:07	11°♄26'39		min. Earth dist.	5669 Apr 20 22:36	27°♄20'01	0.63310 AU
desc. node	5668 May 17 13:08	9°♄13'30		morning rise	5669 Apr 24 10:40	24°♄03'19	
direct	5668 May 18 15:24	9°♄09'58		direct	5669 May 01 06:46	21°♄24'06	
morning max el	5668 Jun 01 20:57	17°♄08'00	27°51'04	desc. node	5669 May 04 10:09	21°♄54'02	
				morning max el	5669 May 15 04:40	29°♄24'02	27°45'52

	5669 May 15 18:49	0°♄		morning rise	5670 Apr 07 14:11	7°♄09'11	
	5669 Jun 06 11:04	0°♄		direct	5670 Apr 14 05:46	4°♄20'08	
morning set	5669 Jun 18 17:14	22°♄32'53		desc. node	5670 Apr 21 07:11	6°♄51'03	
	5669 Jun 22 08:37	0°♄		morning max el	5670 Apr 27 14:47	12°♄11'57	27°06'30
max. Earth dist.	5669 Jun 23 22:01	3°♄16'49	1.32724 AU		5670 May 11 20:09	0°♄	
asc. node	5669 Jun 25 07:58	6°♄17'46			5670 May 30 00:40	0°♄	
				morning set	5670 Jun 02 05:25	6°♄03'20	
superior conj	5669 Jun 26 11:37	8°♄46'29	0°11'56	max. Earth dist.	5670 Jun 06 17:27	14°♄58'54	1.33824 AU
minimum elong	5669 Jun 26 11:02	8°♄43'23	0°11'47				
behind sun begin	5669 Jun 26 07:27	8°♄24'00		superior conj	5670 Jun 10 14:14	22°♄59'01	-0°16'37
behind sun end	5669 Jun 26 14:38	9°♄02'47		minimum elong	5670 Jun 10 15:07	23°♄03'38	0°16'27
evening rise	5669 Jul 03 11:21	23°♄52'36		asc. node	5670 Jun 12 05:02	26°♄23'44	
	5669 Jul 06 09:45	0°♄			5670 Jun 13 21:44	0°♄	
	5669 Jul 25 08:19	0°♄		evening rise	5670 Jun 17 22:03	8°♄30'25	
evening max el	5669 Jul 26 15:20	1°♄18'23	23°20'43		5670 Jun 29 06:46	0°♄	
desc. node	5669 Jul 31 09:25	5°♄10'33		evening max el	5670 Jul 08 07:34	11°♄42'48	21°44'57
retrograde	5669 Aug 09 03:28	8°♄04'18		desc. node	5670 Jul 18 06:26	17°♄39'14	
evening set	5669 Aug 13 03:14	7°♄29'27		retrograde	5670 Jul 20 19:39	17°♄54'35	
min. Earth dist.	5669 Aug 20 00:42	4°♄18'39	0.55668 AU	evening set	5670 Jul 23 10:39	17°♄39'02	
inferior conj	5669 Aug 21 22:02	3°♄12'02	-5°05'39	inferior conj	5670 Aug 01 17:55	13°♄37'30	-3°59'25
minimum elong	5669 Aug 21 16:45	3°♄19'50	5°05'02	minimum elong	5670 Aug 01 08:57	13°♄50'04	3°57'01
	5669 Aug 28 03:52	30°♄		min. Earth dist.	5670 Aug 01 10:32	13°♄47'51	0.54837 AU
morning rise	5669 Aug 30 08:37	29°♄19'40		morning rise	5670 Aug 10 08:36	9°♄46'28	
direct	5669 Sep 02 06:29	28°♄59'09		direct	5670 Aug 13 17:11	9°♄21'49	
	5669 Sep 07 02:40	0°♄		morning max el	5670 Aug 25 22:13	15°♄05'57	21°54'12
morning max el	5669 Sep 12 21:18	3°♄55'28	20°23'38		5670 Sep 06 06:03	0°♄	
asc. node	5669 Sep 21 07:13	14°♄38'59		asc. node	5670 Sep 08 04:16	3°♄20'32	
	5669 Sep 29 16:18	0°♄		morning set	5670 Sep 15 23:00	18°♄36'38	
morning set	5669 Oct 01 13:19	3°♄48'22			5670 Sep 21 08:10	0°♄	
superior conj	5669 Oct 09 03:08	19°♄22'42	1°41'31	superior conj	5670 Sep 23 03:38	3°♄49'21	1°42'49
minimum elong	5669 Oct 09 04:09	19°♄27'49	1°41'30	minimum elong	5670 Sep 23 03:14	3°♄47'14	1°42'49
max. Earth dist.	5669 Oct 14 09:07	29°♄45'28	1.36387 AU	max. Earth dist.	5670 Sep 26 22:27	11°♄38'57	1.34656 AU
	5669 Oct 14 12:09	0°♄		evening rise	5670 Oct 01 08:29	20°♄23'32	
evening rise	5669 Oct 18 06:21	7°♄03'31			5670 Oct 06 12:35	0°♄	
desc. node	5669 Oct 27 08:39	22°♄50'08		desc. node	5670 Oct 14 05:41	13°♄04'34	
	5669 Oct 31 20:45	0°♄			5670 Oct 25 19:36	0°♄	
evening max el	5669 Nov 22 22:14	28°♄37'47	26°00'04	evening max el	5670 Nov 05 11:00	12°♄16'21	26°53'20
	5669 Nov 24 09:18	0°♄		retrograde	5670 Nov 18 15:00	19°♄33'57	
retrograde	5669 Dec 05 11:14	5°♄45'37		evening set	5670 Nov 25 06:55	16°♄55'06	
evening set	5669 Dec 11 15:09	3°♄13'39		min. Earth dist.	5670 Nov 29 06:43	12°♄57'15	0.65700 AU
	5669 Dec 14 19:06	30°♄		inferior conj	5670 Dec 01 05:22	10°♄42'17	-1°19'42
min. Earth dist.	5669 Dec 15 21:24	28°♄40'39	0.66849 AU	minimum elong	5670 Dec 01 07:38	10°♄35'42	1°18'44
inferior conj	5669 Dec 17 08:23	26°♄51'30	-0°18'48	asc. node	5670 Dec 05 03:31	6°♄36'10	
minimum elong	5669 Dec 17 08:53	26°♄49'57	0°18'34	morning rise	5670 Dec 07 09:19	5°♄03'48	
asc. node	5669 Dec 18 06:30	25°♄43'05		direct	5670 Dec 10 04:18	4°♄21'06	
morning rise	5669 Dec 23 03:09	21°♄01'31		morning max el	5670 Dec 16 16:30	7°♄51'05	18°14'24
direct	5669 Dec 26 07:21	20°♄03'56			5671 Jan 01 00:54	0°♄	
morning max el	5670 Jan 02 02:36	23°♄48'16	18°52'28	morning set	5671 Jan 04 15:06	5°♄49'39	
	5670 Jan 07 06:52	0°♄		desc. node	5671 Jan 10 04:57	14°♄49'59	
desc. node	5670 Jan 23 07:54	24°♄14'53					
morning set	5670 Jan 24 02:04	25°♄25'59		superior conj	5671 Jan 19 18:06	29°♄59'57	-1°03'21
	5670 Jan 27 00:07	0°♄		minimum elong	5671 Jan 19 10:28	29°♄29'56	1°02'23
max. Earth dist.	5670 Feb 08 01:01	18°♄50'36	1.45189 AU		5671 Jan 19 18:07	0°♄	
				max. Earth dist.	5671 Jan 21 20:08	3°♄16'26	1.45327 AU
superior conj	5670 Feb 09 14:22	21°♄17'21	-1°42'58	evening rise	5671 Feb 04 22:44	25°♄18'37	
minimum elong	5670 Feb 09 05:10	20°♄41'13	1°42'09		5671 Feb 07 22:52	0°♄	
	5670 Feb 15 02:40	0°♄		greatest brilliancy	5671 Feb 16 15:20	13°♄26'19	-0.7m
evening rise	5670 Feb 24 18:45	15°♄30'49			5671 Feb 28 22:19	0°♄	
	5670 Mar 05 17:58	0°♄		evening max el	5671 Feb 28 18:59	29°♄51'31	19°21'00
asc. node	5670 Mar 16 05:47	15°♄01'23		asc. node	5671 Mar 03 02:49	1°♄57'16	
evening max el	5670 Mar 17 10:44	16°♄19'08	18°38'35	retrograde	5671 Mar 07 21:36	3°♄54'56	
retrograde	5670 Mar 24 00:59	19°♄57'24		evening set	5671 Mar 11 09:33	2°♄43'23	
evening set	5670 Mar 27 05:41	18°♄59'27			5671 Mar 14 08:11	30°♄	
inferior conj	5670 Apr 01 22:27	13°♄23'01	3°31'12	inferior conj	5671 Mar 16 21:03	26°♄51'22	3°22'24
minimum elong	5670 Apr 01 22:13	13°♄23'43	3°31'11	minimum elong	5671 Mar 16 19:39	26°♄55'58	3°22'13
min. Earth dist.	5670 Apr 03 21:35	11°♄00'21	0.65107 AU	min. Earth dist.	5671 Mar 18 05:00	25°♄07'33	0.66506 AU

morning rise	5671 Mar 22 05:24	20° $\text{K}$ 35'57		morning rise	5672 Mar 05 05:16	4° $\text{K}$ 17'21	
direct	5671 Mar 28 11:19	17° $\text{K}$ 49'44		direct	5672 Mar 10 22:20	1° $\text{K}$ 44'15	
desc. node	5671 Apr 08 04:13	23° $\text{K}$ 31'24		morning max el	5672 Mar 22 09:23	8° $\text{K}$ 35'44	24°37'55
morning max el	5671 Apr 10 00:42	25° $\text{K}$ 19'10	26°00'35	desc. node	5672 Mar 25 01:15	11° $\text{K}$ 26'33	
	5671 Apr 14 07:02	0° $\text{Y}$			5672 Apr 08 04:52	0° $\text{Y}$	
	5671 May 05 08:05	0° $\text{B}$			5672 Apr 26 22:40	0° $\text{B}$	
morning set	5671 May 16 04:19	18° $\text{B}$ 51'53		morning set	5672 Apr 27 08:52	0° $\text{B}$ 44'45	
max. Earth dist.	5671 May 20 01:20	26° $\text{B}$ 11'18	1.35393 AU	max. Earth dist.	5672 Apr 30 23:40	7° $\text{B}$ 13'40	1.37367 AU
	5671 May 22 00:16	0° $\text{II}$					
superior conj	5671 May 25 09:20	6° $\text{II}$ 45'13	-0°46'40	superior conj	5672 May 07 17:47	19° $\text{B}$ 57'09	-1°16'23
minimum elong	5671 May 25 11:57	6° $\text{II}$ 58'27	0°46'11	minimum elong	5672 May 07 22:03	20° $\text{B}$ 17'54	1°15'44
asc. node	5671 May 30 02:05	16° $\text{II}$ 24'20			5672 May 12 19:59	0° $\text{II}$	
evening rise	5671 Jun 02 05:34	22° $\text{II}$ 54'14		asc. node	5672 May 15 23:07	6° $\text{II}$ 15'37	
	5671 Jun 05 17:58	0° $\text{E}$		evening rise	5672 May 16 07:33	6° $\text{II}$ 57'39	
evening max el	5671 Jun 20 10:51	22° $\text{E}$ 38'30	20°22'05		5672 May 29 10:15	0° $\text{E}$	
retrograde	5671 Jul 01 08:39	27° $\text{E}$ 59'19		evening max el	5672 Jun 02 02:48	4° $\text{E}$ 17'04	19°18'04
evening set	5671 Jul 03 07:44	27° $\text{E}$ 49'41		retrograde	5672 Jun 11 07:13	8° $\text{E}$ 46'46	
desc. node	5671 Jul 05 03:28	27° $\text{E}$ 24'30		evening set	5672 Jun 13 06:04	8° $\text{E}$ 35'28	
inferior conj	5671 Jul 12 12:01	23° $\text{E}$ 52'06	-2°11'17	desc. node	5672 Jun 21 00:29	4° $\text{E}$ 56'29	
minimum elong	5671 Jul 12 05:55	24° $\text{E}$ 01'00	2°09'06	inferior conj	5672 Jun 21 18:28	4° $\text{E}$ 26'58	-0°13'25
min. Earth dist.	5671 Jul 13 22:07	23° $\text{E}$ 02'19	0.54953 AU	minimum elong	5672 Jun 21 17:53	4° $\text{E}$ 27'56	0°13'14
morning rise	5671 Jul 21 03:00	19° $\text{E}$ 41'44		transit middle	5672 Jun 21 17:53	4° $\text{E}$ 27'56	0°13'14
direct	5671 Jul 25 03:23	19° $\text{E}$ 06'51		transit begin	5672 Jun 21 15:43	4° $\text{E}$ 31'31	
morning max el	5671 Aug 07 14:16	25° $\text{E}$ 39'24	23°37'01	transit end	5672 Jun 21 20:03	4° $\text{E}$ 24'21	
	5671 Aug 11 16:33	0° $\text{O}$		min. Earth dist.	5672 Jun 24 12:10	2° $\text{E}$ 39'06	0.56011 AU
asc. node	5671 Aug 26 01:19	22° $\text{O}$ 32'41			5672 Jun 29 09:29	30° $\text{R}$ $\text{II}$	
	5671 Aug 29 18:35	0° $\text{P}$		morning rise	5672 Jun 30 02:47	29° $\text{II}$ 43'09	
morning set	5671 Aug 31 10:28	3° $\text{P}$ 28'48		direct	5672 Jul 05 00:21	28° $\text{II}$ 48'14	
					5672 Jul 10 14:32	0° $\text{E}$	
superior conj	5671 Sep 07 10:04	18° $\text{P}$ 32'10	1°37'38	morning max el	5672 Jul 19 03:37	5° $\text{E}$ 59'00	25°18'46
minimum elong	5671 Sep 07 08:35	18° $\text{P}$ 24'14	1°37'32		5672 Aug 05 13:43	0° $\text{O}$	
max. Earth dist.	5671 Sep 09 20:29	23° $\text{P}$ 45'00	1.33328 AU	asc. node	5672 Aug 11 22:22	12° $\text{O}$ 07'27	
	5671 Sep 12 20:12	0° $\text{A}$		morning set	5672 Aug 14 22:04	18° $\text{O}$ 20'03	
evening rise	5671 Sep 14 23:04	4° $\text{A}$ 18'12			5672 Aug 20 07:00	0° $\text{P}$	
	5671 Sep 29 05:53	0° $\text{M}$		superior conj	5672 Aug 21 20:06	3° $\text{P}$ 23'51	1°26'51
desc. node	5671 Oct 01 02:42	2° $\text{M}$ 55'58		minimum elong	5672 Aug 21 17:59	3° $\text{P}$ 12'15	1°26'36
evening max el	5671 Oct 18 23:08	25° $\text{M}$ 38'41	27°23'22	max. Earth dist.	5672 Aug 23 02:12	6° $\text{P}$ 08'42	1.32432 AU
	5671 Oct 24 07:23	0° $\text{X}$		evening rise	5672 Aug 28 22:42	18° $\text{P}$ 37'49	
retrograde	5671 Nov 01 12:43	2° $\text{X}$ 57'08			5672 Sep 03 16:38	0° $\text{A}$	
evening set	5671 Nov 08 13:25	0° $\text{X}$ 19'19		desc. node	5672 Sep 16 23:43	22° $\text{A}$ 14'48	
	5671 Nov 08 23:28	30° $\text{R}$ $\text{M}$			5672 Sep 22 16:18	0° $\text{M}$	
min. Earth dist.	5671 Nov 12 07:47	26° $\text{M}$ 55'01	0.64209 AU	evening max el	5672 Sep 30 08:40	8° $\text{M}$ 32'12	27°23'48
inferior conj	5671 Nov 14 18:14	24° $\text{M}$ 21'10	-2°23'44	retrograde	5672 Oct 14 03:26	15° $\text{M}$ 46'19	
minimum elong	5671 Nov 14 22:28	24° $\text{M}$ 09'59	2°22'05	evening set	5672 Oct 21 07:22	13° $\text{M}$ 19'45	
morning rise	5671 Nov 21 08:56	18° $\text{M}$ 57'11		min. Earth dist.	5672 Oct 24 22:44	10° $\text{M}$ 24'10	0.62415 AU
asc. node	5671 Nov 22 00:34	18° $\text{M}$ 42'55		inferior conj	5672 Oct 27 20:07	7° $\text{M}$ 41'17	-3°27'43
direct	5671 Nov 23 21:06	18° $\text{M}$ 25'23		minimum elong	5672 Oct 28 02:03	7° $\text{M}$ 27'19	3°25'46
morning max el	5671 Nov 30 09:09	21° $\text{M}$ 50'13	17°53'19	morning rise	5672 Nov 03 22:30	2° $\text{M}$ 35'10	
	5671 Dec 06 16:39	0° $\text{X}$		direct	5672 Nov 06 06:39	2° $\text{M}$ 10'38	
morning set	5671 Dec 17 08:33	17° $\text{X}$ 36'40		asc. node	5672 Nov 07 21:37	2° $\text{M}$ 22'48	
	5671 Dec 24 17:16	0° $\text{B}$		morning max el	5672 Nov 13 01:33	5° $\text{M}$ 38'31	17°50'05
desc. node	5671 Dec 28 01:57	5° $\text{B}$ 32'18			5672 Nov 28 18:07	0° $\text{X}$	
				morning set	5672 Nov 29 00:23	0° $\text{X}$ 27'57	
superior conj	5671 Dec 30 11:31	9° $\text{B}$ 26'22	-0°16'49	superior conj	5672 Dec 10 06:03	20° $\text{X}$ 06'24	0°26'12
minimum elong	5671 Dec 30 09:34	9° $\text{B}$ 18'29	0°16'30	minimum elong	5672 Dec 10 08:28	20° $\text{X}$ 16'36	0°25'52
max. Earth dist.	5672 Jan 04 14:46	17° $\text{B}$ 39'36	1.44730 AU	desc. node	5672 Dec 13 22:57	26° $\text{X}$ 18'21	
	5672 Jan 12 12:03	0° $\text{A}$			5672 Dec 16 04:55	0° $\text{B}$	
evening rise	5672 Jan 15 11:23	4° $\text{A}$ 34'57		max. Earth dist.	5672 Dec 17 06:47	1° $\text{B}$ 45'08	1.43471 AU
	5672 Feb 01 10:20	0° $\text{K}$		evening rise	5672 Dec 24 23:18	13° $\text{B}$ 56'44	
evening max el	5672 Feb 11 22:18	13° $\text{K}$ 26'12	20°18'46		5673 Jan 04 13:26	0° $\text{A}$	
asc. node	5672 Feb 17 23:50	17° $\text{K}$ 45'33		evening max el	5673 Jan 24 20:08	27° $\text{A}$ 01'50	21°28'41
retrograde	5672 Feb 19 19:48	18° $\text{K}$ 03'22			5673 Jan 28 03:43	0° $\text{K}$	
evening set	5672 Feb 23 16:19	16° $\text{K}$ 37'19		retrograde	5673 Feb 02 17:31	2° $\text{K}$ 18'06	
inferior conj	5672 Feb 29 01:02	10° $\text{K}$ 31'57	3°01'47	asc. node	5673 Feb 03 20:52	2° $\text{K}$ 11'11	
minimum elong	5672 Feb 28 22:54	10° $\text{K}$ 39'12	3°01'21	evening set	5673 Feb 07 00:07	0° $\text{K}$ 36'47	
min. Earth dist.	5672 Feb 29 18:59	9° $\text{K}$ 30'58	0.67472 AU				

	5673 Feb 07 17:09	30° 		minimum elong	5674 Jan 27 14:04	8°  23'05	1°52'01
inferior conj	5673 Feb 12 08:04	24°  20'41	2°31'26	min. Earth dist.	5674 Jan 27 09:48	8°  37'51	0.68166 AU
minimum elong	5673 Feb 12 05:41	24°  28'58	2°30'46	morning rise	5674 Feb 01 20:40	2°  07'07	
min. Earth dist.	5673 Feb 12 13:18	24°  02'34	0.68018 AU	direct	5674 Feb 06 08:49	0°  16'30	
morning rise	5673 Feb 17 11:05	18°  08'29		morning max el	5674 Feb 15 07:46	5°  29'48	21°42'03
direct	5673 Feb 22 13:45	15°  55'11		desc. node	5674 Feb 26 19:14	19°  41'18	
morning max el	5673 Mar 04 18:33	21°  58'12	23°08'40		5674 Mar 05 23:56	0° 	
desc. node	5673 Mar 11 22:14	0°  14'41		morning set	5674 Mar 19 12:46	20°  45'32	
	5673 Mar 11 17:37	0° 			5674 Mar 25 05:25	0° 	
	5673 Apr 01 12:18	0° 		max. Earth dist.	5674 Mar 25 19:00	0°  56'12	1.41704 AU
morning set	5673 Apr 08 13:00	11°  09'25'10					
max. Earth dist.	5673 Apr 12 19:17	18°  09'40'08	1.39562 AU	superior conj	5674 Apr 02 09:38	13°  09'53'44	-2°02'33
	5673 Apr 19 04:09	0° 		minimum elong	5674 Apr 02 13:38	14°  09'11'15	2°02'21
					5674 Apr 11 08:50	0° 	
superior conj	5673 Apr 20 11:28	2°  23'42	-1°43'02	evening rise	5674 Apr 13 06:14	3°  28'23	
minimum elong	5673 Apr 20 16:37	2°  47'30	1°42'30	asc. node	5674 Apr 19 17:10	15°  08'54	
evening rise	5673 Apr 30 00:59	20°  31'55		evening max el	5674 Apr 29 14:04	29°  22'22	18°11'03
asc. node	5673 May 02 20:08	25°  52'14			5674 Apr 30 06:05	0° 	
	5673 May 05 01:18	0° 		retrograde	5674 May 06 11:42	2°  15'11'15	
evening max el	5673 May 16 05:01	16°  13'42'24	18°34'27	evening set	5674 May 08 23:30	2°  12'43'38	
retrograde	5673 May 24 00:09	20°  12'25'38			5674 May 13 02:25	30° 	
evening set	5673 May 26 05:01	20°  12'08'12		inferior conj	5674 May 15 21:35	27°  36'34	2°33'14
inferior conj	5673 Jun 02 21:22	15°  14'40'39	1°25'04	minimum elong	5674 May 16 00:55	27°  32'29'02	2°32'24
minimum elong	5673 Jun 03 00:12	15°  12'35'11	1°24'07	min. Earth dist.	5674 May 19 06:10	24°  36'09	0.59928 AU
min. Earth dist.	5673 Jun 06 06:00	13°  12'06'03	0.57781 AU	morning rise	5674 May 22 23:42	21°  35'50'05	
desc. node	5673 Jun 07 21:30	11°  12'57'01		desc. node	5674 May 25 18:31	20°  32'29'54	
morning rise	5673 Jun 10 16:07	10°  12'21'26		direct	5674 May 29 11:04	19°  35'51'19	
direct	5673 Jun 16 11:13	8°  12'56'43		morning max el	5674 Jun 12 19:36	27°  44'38	27°37'01
morning max el	5673 Jun 30 20:22	16°  13'33'32	26°43'18		5674 Jun 14 23:48	0° 	
	5673 Jul 11 20:41	0° 			5674 Jul 05 13:15	0° 	
	5673 Jul 28 20:47	0° 		morning set	5674 Jul 14 15:07	17°  38'28	
asc. node	5673 Jul 29 19:24	1°  05'57'45		asc. node	5674 Jul 16 16:25	21°  38'58'20	
morning set	5673 Jul 30 08:12	3°  05'02			5674 Jul 20 09:15	0° 	
				max. Earth dist.	5674 Jul 20 23:32	1°  18'35	1.31910 AU
superior conj	5673 Aug 06 07:46	18°  05'17'32	1°11'10				
minimum elong	5673 Aug 06 05:29	18°  04'04'52	1°10'47	superior conj	5674 Jul 21 19:19	3°  07'36	0°51'06
max. Earth dist.	5673 Aug 06 12:30	18°  04'43'38	1.31960 AU	minimum elong	5674 Jul 21 17:19	2°  05'56'35	0°50'41
	5673 Aug 11 16:09	0° 		evening rise	5674 Jul 28 14:15	17°  05'58'09	
evening rise	5673 Aug 13 04:32	3°  13'13'32			5674 Aug 03 11:51	0° 	
	5673 Aug 27 12:33	0° 		desc. node	5674 Aug 21 17:47	28°  16'12	
desc. node	5673 Sep 03 20:45	10°  04'47'51			5674 Aug 23 07:32	0° 	
evening max el	5673 Sep 12 12:43	20°  04'43'30	26°50'58	evening max el	5674 Aug 25 09:04	2°  04'40	25°45'52
retrograde	5673 Sep 26 10:15	27°  03'53'03		retrograde	5674 Sep 08 07:56	9°  03'10'33	
evening set	5673 Oct 03 08:34	25°  04'49'23		evening set	5674 Sep 14 12:05	7°  03'40'33	
min. Earth dist.	5673 Oct 07 02:47	23°  04'11'57	0.60397 AU	min. Earth dist.	5674 Sep 18 21:17	5°  04'14	0.58327 AU
inferior conj	5673 Oct 10 07:39	20°  03'34'49	-4°25'52	inferior conj	5674 Sep 22 01:18	2°  04'48'25	-5°08'15
minimum elong	5673 Oct 10 14:04	20°  02'20'35	4°24'20	minimum elong	5674 Sep 22 05:32	2°  04'40'49	5°07'46
morning rise	5673 Oct 17 21:37	15°  04'49'08			5674 Sep 26 07:43	30° 	
direct	5673 Oct 20 04:58	15°  04'28'46		morning rise	5674 Sep 30 01:17	28°  16'27'01	
asc. node	5673 Oct 25 18:39	17°  03'33'46		direct	5674 Oct 02 11:24	28°  16'08'20	
morning max el	5673 Oct 27 14:30	19°  04'08'07	18°05'56		5674 Oct 08 04:36	0° 	
	5673 Nov 04 13:07	0° 		morning max el	5674 Oct 10 20:33	2°  04'09'01	18°42'16
morning set	5673 Nov 12 08:25	14°  05'05'15		asc. node	5674 Oct 12 15:41	4°  02'02'20	
	5673 Nov 20 23:12	0° 		morning set	5674 Oct 27 03:40	28°  13'37	
					5674 Oct 28 01:29	0° 	
superior conj	5673 Nov 22 02:17	2°  01'01'26	1°00'03				
minimum elong	5673 Nov 22 06:07	2°  01'18'35	0°59'33	superior conj	5674 Nov 04 19:22	14°  05'56'52	1°23'32
max. Earth dist.	5673 Nov 29 18:08	15°  01'17'23	1.41698 AU	minimum elong	5674 Nov 04 22:40	15°  05'12'22	1°23'13
desc. node	5673 Nov 30 19:58	17°  01'05'11		max. Earth dist.	5674 Nov 12 00:24	28°  05'05'02	1.39628 AU
evening rise	5673 Dec 05 01:20	23°  01'59'43			5674 Nov 13 02:42	0° 	
	5673 Dec 08 20:09	0° 		evening rise	5674 Nov 16 01:11	5°  02'02'02	
	5673 Dec 29 12:52	0° 		desc. node	5674 Nov 17 17:00	7°  04'48'47	
evening max el	5674 Jan 07 13:06	10°  03'39'32	22°46'22		5674 Dec 01 23:26	0° 	
retrograde	5674 Jan 17 13:15	16°  03'36'03		evening max el	5674 Dec 21 02:52	24°  03'20'16	24°06'16
asc. node	5674 Jan 21 17:54	15°  03'05'29			5674 Dec 28 13:56	0° 	
evening set	5674 Jan 22 07:22	14°  03'39'04		retrograde	5675 Jan 01 05:42	0° 	
inferior conj	5674 Jan 27 16:14	8°  03'15'34	1°52'45		5675 Jan 04 14:31	30° 	



evening set	5675 Jan 06 12:30	28° $\text{Z}$ 40'23		asc. node	5675 Dec 26 11:57	7° $\text{Z}$ 06'02	
asc. node	5675 Jan 08 14:56	26° $\text{Z}$ 33'34		inferior conj	5675 Dec 27 04:39	6° $\text{Z}$ 11'55	0°14'08
inferior conj	5675 Jan 11 23:42	22° $\text{Z}$ 13'32	1°06'42	minimum elong	5675 Dec 27 04:18	6° $\text{Z}$ 13'05	0°14'00
minimum elong	5675 Jan 11 22:12	22° $\text{Z}$ 18'35	1°06'09	transit middle	5675 Dec 27 04:18	6° $\text{Z}$ 13'05	0°14'00
min. Earth dist.	5675 Jan 11 06:13	23° $\text{Z}$ 12'39	0.67937 AU	transit begin	5675 Dec 27 02:54	6° $\text{Z}$ 17'36	
morning rise	5675 Jan 17 07:57	16° $\text{Z}$ 10'25		transit end	5675 Dec 27 05:42	6° $\text{Z}$ 08'33	
direct	5675 Jan 21 06:26	14° $\text{Z}$ 42'20		morning rise	5676 Jan 01 18:58	0° $\text{Z}$ 16'12	
morning max el	5675 Jan 29 03:56	19° $\text{Z}$ 12'32	20°24'57		5676 Jan 02 05:27	30° $\text{R}$ 27	
	5675 Feb 06 23:14	0° $\approx$		direct	5676 Jan 05 05:19	29° $\text{Z}$ 08'21	
desc. node	5675 Feb 13 16:15	9° $\approx$ 35'31			5676 Jan 08 08:34	0° $\text{Z}$	
morning set	5675 Feb 26 13:29	29° $\approx$ 05'14		morning max el	5676 Jan 12 08:01	3° $\text{Z}$ 06'16	19°21'37
	5675 Feb 27 03:37	0° $\text{H}$		greatest brilliancy	5676 Jan 25 13:37	20° $\text{Z}$ 44'02	-0.7m
max. Earth dist.	5675 Mar 08 01:36	14° $\text{H}$ 04'42	1.43512 AU	desc. node	5676 Jan 31 13:17	29° $\text{Z}$ 50'00	
					5676 Jan 31 15:53	0° $\approx$	
superior conj	5675 Mar 14 07:41	24° $\text{H}$ 17'32	-2°09'31	morning set	5676 Feb 05 12:08	7° $\approx$ 27'57	
minimum elong	5675 Mar 14 07:15	24° $\text{H}$ 15'41	2°09'30	max. Earth dist.	5676 Feb 18 15:07	27° $\approx$ 57'01	1.44775 AU
	5675 Mar 17 17:31	0° $\text{Y}$			5676 Feb 19 22:14	0° $\text{H}$	
evening rise	5675 Mar 26 18:55	15° $\text{Y}$ 36'59					
	5675 Apr 04 02:54	0° $\text{B}$		superior conj	5676 Feb 22 04:49	3° $\text{H}$ 36'49	-1°58'27
asc. node	5675 Apr 06 14:12	3° $\text{B}$ 58'44		minimum elong	5676 Feb 21 21:56	3° $\text{H}$ 09'27	1°58'02
evening max el	5675 Apr 13 02:30	12° $\text{B}$ 31'52	18°07'11	evening rise	5676 Mar 07 10:42	26° $\text{H}$ 49'58	
retrograde	5675 Apr 19 13:45	15° $\text{B}$ 53'41			5676 Mar 09 08:21	0° $\text{Y}$	
evening set	5675 Apr 22 08:11	15° $\text{B}$ 15'49		asc. node	5676 Mar 23 11:14	22° $\text{Y}$ 13'01	
inferior conj	5675 Apr 28 15:51	10° $\text{B}$ 08'06	3°12'54	evening max el	5676 Mar 26 15:17	25° $\text{Y}$ 54'45	18°22'02
minimum elong	5675 Apr 28 18:03	10° $\text{B}$ 02'25	3°12'33	retrograde	5676 Apr 02 01:52	29° $\text{Y}$ 23'10	
min. Earth dist.	5675 May 01 14:37	7° $\text{B}$ 06'33	0.62121 AU	evening set	5676 Apr 05 02:47	28° $\text{Y}$ 32'45	
morning rise	5675 May 05 02:14	4° $\text{B}$ 05'11		inferior conj	5676 Apr 10 23:59	23° $\text{Y}$ 06'31	3°29'43
direct	5675 May 11 21:39	1° $\text{B}$ 37'15		minimum elong	5676 Apr 11 00:36	23° $\text{Y}$ 04'44	3°29'40
desc. node	5675 May 12 15:32	1° $\text{B}$ 38'56		min. Earth dist.	5676 Apr 13 08:11	20° $\text{Y}$ 25'18	0.64118 AU
morning max el	5675 May 26 00:48	9° $\text{B}$ 38'14	27°53'24	morning rise	5676 Apr 16 21:32	16° $\text{Y}$ 55'22	
	5675 Jun 10 19:54	0° $\text{II}$		direct	5676 Apr 23 16:41	14° $\text{Y}$ 09'58	
	5675 Jun 27 18:17	0° $\text{E}$		desc. node	5676 Apr 28 12:34	15° $\text{Y}$ 20'59	
morning set	5675 Jun 28 16:52	1° $\text{E}$ 54'12		morning max el	5676 May 07 09:39	22° $\text{Y}$ 08'14	27°32'55
asc. node	5675 Jul 03 13:28	12° $\text{E}$ 04'44			5676 May 14 07:01	0° $\text{B}$	
max. Earth dist.	5675 Jul 04 07:28	13° $\text{E}$ 41'34	1.32290 AU		5676 Jun 03 00:48	0° $\text{II}$	
				morning set	5676 Jun 11 10:50	15° $\text{II}$ 43'18	
superior conj	5675 Jul 06 04:58	17° $\text{E}$ 48'35	0°27'13	max. Earth dist.	5676 Jun 16 08:14	25° $\text{II}$ 39'33	1.33127 AU
minimum elong	5675 Jul 06 03:44	17° $\text{E}$ 41'54	0°26'56		5676 Jun 18 09:44	0° $\text{E}$	
	5675 Jul 11 19:01	0° $\text{O}$					
evening rise	5675 Jul 13 01:52	2° $\text{O}$ 45'30		superior conj	5676 Jun 19 10:45	2° $\text{E}$ 13'08	0°00'07
	5675 Jul 27 18:00	0° $\text{P}$		minimum elong	5676 Jun 19 10:45	2° $\text{E}$ 13'08	0°00'05
evening max el	5675 Aug 06 22:54	12° $\text{P}$ 43'28	24°17'03	behind sun begin	5676 Jun 19 05:24	1° $\text{E}$ 44'38	
desc. node	5675 Aug 08 14:50	14° $\text{P}$ 14'32		behind sun end	5676 Jun 19 16:05	2° $\text{E}$ 41'41	
retrograde	5675 Aug 20 18:26	19° $\text{P}$ 40'36		asc. node	5676 Jun 19 10:30	2° $\text{E}$ 11'47	
evening set	5675 Aug 25 15:10	18° $\text{P}$ 48'02		evening rise	5676 Jun 26 13:23	17° $\text{E}$ 28'15	
min. Earth dist.	5675 Aug 31 09:47	15° $\text{P}$ 53'58	0.56490 AU		5676 Jul 02 17:57	0° $\text{O}$	
inferior conj	5675 Sep 02 22:53	14° $\text{P}$ 18'19	-5°19'47	evening max el	5676 Jul 18 11:58	23° $\text{O}$ 03'32	22°39'12
minimum elong	5675 Sep 02 21:30	14° $\text{P}$ 20'31	5°19'45	desc. node	5676 Jul 25 11:52	28° $\text{O}$ 09'17	
morning rise	5675 Sep 11 06:15	10° $\text{P}$ 17'30		retrograde	5676 Jul 31 16:00	29° $\text{O}$ 36'55	
direct	5675 Sep 13 22:47	9° $\text{P}$ 58'18		evening set	5676 Aug 04 00:16	29° $\text{O}$ 12'24	
morning max el	5675 Sep 23 16:25	14° $\text{P}$ 31'38	19°40'17	min. Earth dist.	5676 Aug 11 19:42	25° $\text{O}$ 46'12	0.55212 AU
asc. node	5675 Sep 29 12:43	21° $\text{P}$ 33'27		inferior conj	5676 Aug 13 01:58	25° $\text{O}$ 03'06	-4°44'02
	5675 Oct 04 16:26	0° $\text{U}$		minimum elong	5676 Aug 12 18:22	25° $\text{O}$ 13'56	4°42'37
morning set	5675 Oct 11 06:33	12° $\text{U}$ 43'17		morning rise	5676 Aug 21 14:28	21° $\text{O}$ 13'15	
				direct	5676 Aug 24 16:35	20° $\text{O}$ 51'17	
superior conj	5675 Oct 19 04:01	28° $\text{U}$ 37'29	1°37'23	morning max el	5676 Sep 04 23:57	26° $\text{O}$ 07'38	20°59'53
minimum elong	5675 Oct 19 05:55	28° $\text{U}$ 46'52	1°37'17		5676 Sep 08 14:47	0° $\text{P}$	
	5675 Oct 19 20:46	0° $\text{M}$		asc. node	5676 Sep 15 09:46	9° $\text{P}$ 52'31	
max. Earth dist.	5675 Oct 25 05:16	10° $\text{M}$ 14'58	1.37525 AU	morning set	5676 Sep 24 14:21	27° $\text{P}$ 26'13	
evening rise	5675 Oct 28 23:25	17° $\text{M}$ 05'16			5676 Sep 25 19:59	0° $\text{U}$	
desc. node	5675 Nov 04 14:04	28° $\text{M}$ 25'10					
	5675 Nov 05 13:11	0° $\text{Z}$		superior conj	5676 Oct 01 23:42	12° $\text{U}$ 49'47	1°42'55
	5675 Nov 26 09:26	0° $\text{Z}$		minimum elong	5676 Oct 02 00:05	12° $\text{U}$ 51'45	1°42'55
evening max el	5675 Dec 03 15:37	8° $\text{Z}$ 04'40	25°21'39	max. Earth dist.	5676 Oct 06 14:25	22° $\text{U}$ 08'19	1.35615 AU
retrograde	5675 Dec 15 17:48	15° $\text{Z}$ 02'45		evening rise	5676 Oct 10 16:33	0° $\text{M}$ 00'08	
evening set	5675 Dec 21 13:56	12° $\text{Z}$ 37'20			5676 Oct 10 16:32	0° $\text{M}$	
min. Earth dist.	5675 Dec 26 00:13	7° $\text{Z}$ 43'53	0.67349 AU	desc. node	5676 Oct 21 11:07	18° $\text{M}$ 49'11	

	5676 Oct 28 16:48	0°♊		desc. node	5677 Oct 08 08:08	8°♎54'46	
evening max el	5676 Nov 15 04:33	21°♊48'11	26°25'11		5677 Oct 23 15:48	0°♊	
retrograde	5676 Nov 28 00:38	29°♊00'53		evening max el	5677 Oct 28 17:20	5°♊21'32	27°09'20
evening set	5676 Dec 04 09:50	26°♊25'36		retrograde	5677 Nov 11 01:40	12°♊39'27	
min. Earth dist.	5676 Dec 08 13:24	22°♊07'19	0.66404 AU	evening set	5677 Nov 17 21:58	10°♊00'00	
inferior conj	5676 Dec 10 05:10	20°♊06'49	-0°44'06	min. Earth dist.	5677 Nov 21 19:21	6°♊16'52	0.65112 AU
minimum elong	5676 Dec 10 06:23	20°♊03'09	0°43'34	inferior conj	5677 Nov 23 23:00	3°♊53'06	-1°46'39
asc. node	5676 Dec 12 09:00	17°♊35'17		minimum elong	5677 Nov 24 02:07	3°♊44'27	1°45'21
morning rise	5676 Dec 16 03:36	14°♊21'06			5677 Nov 27 19:09	30°♎	
direct	5676 Dec 19 03:40	13°♊30'12		asc. node	5677 Nov 29 06:03	28°♎55'24	
morning max el	5676 Dec 25 18:57	17°♊07'08	18°34'09	morning rise	5677 Nov 30 07:22	28°♎20'24	
	5677 Jan 04 12:08	0°♊		direct	5677 Dec 02 23:16	27°♎42'40	
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	5677 Jan 23 13:32	0°♎		morning set	5677 Dec 27 09:55	28°♊01'49	
					5677 Dec 28 14:33	0°♊	
superior conj	5677 Jan 31 09:38	12°♎18'07	-1°27'45	desc. node	5678 Jan 04 07:21	10°♊57'37	
minimum elong	5677 Jan 31 00:14	11°♎41'16	1°26'45				
max. Earth dist.	5677 Jan 31 09:32	12°♎17'43	1.45344 AU	superior conj	5678 Jan 10 16:56	21°♊12'59	-0°43'44
	5677 Feb 11 15:40	0°♋		minimum elong	5678 Jan 10 11:35	20°♊51'47	0°42'58
evening rise	5677 Feb 16 03:17	7°♋06'48		max. Earth dist.	5678 Jan 14 05:24	26°♊46'40	1.45163 AU
greatest brilliancy	5677 Feb 24 21:15	21°♋00'40	-0.8m		5678 Jan 16 06:39	0°♎	
	5677 Mar 02 18:02	0°♎		evening rise	5678 Jan 26 23:23	16°♎37'45	
evening max el	5677 Mar 10 01:50	9°♎25'23	18°54'41		5678 Feb 04 16:08	0°♋	
asc. node	5677 Mar 10 08:17	9°♎41'30		greatest brilliancy	5678 Feb 09 11:35	7°♋15'23	-0.7m
retrograde	5677 Mar 16 20:17	13°♎12'42		evening max el	5678 Feb 21 08:06	22°♋58'41	19°43'49
evening set	5677 Mar 20 04:03	12°♎08'54		asc. node	5678 Feb 25 05:19	26°♋10'26	
inferior conj	5677 Mar 25 18:14	6°♎25'39	3°29'03	retrograde	5678 Feb 28 17:54	27°♋15'28	
minimum elong	5677 Mar 25 17:27	6°♎28'07	3°29'00	evening set	5678 Mar 04 09:24	25°♋57'38	
min. Earth dist.	5677 Mar 27 10:46	4°♎18'53	0.65758 AU	inferior conj	5678 Mar 09 19:25	19°♋59'24	3°14'54
morning rise	5677 Mar 31 06:26	0°♎11'05		minimum elong	5678 Mar 09 17:38	20°♋05'18	3°14'38
	5677 Mar 31 11:34	30°♋		min. Earth dist.	5678 Mar 10 21:08	18°♋33'58	0.66971 AU
direct	5677 Apr 06 18:31	27°♋21'52		morning rise	5678 Mar 15 01:39	13°♋44'13	
	5677 Apr 13 21:24	0°♎		direct	5678 Mar 21 02:17	11°♋02'53	
desc. node	5677 Apr 15 09:35	1°♎05'58		morning max el	5678 Apr 02 05:11	18°♋17'25	25°26'54
morning max el	5677 Apr 19 19:43	5°♎05'09	26°41'11	desc. node	5678 Apr 02 06:35	18°♋20'58	
	5677 May 08 20:30	0°♏			5678 Apr 12 01:53	0°♎	
morning set	5677 May 25 17:50	28°♏56'53			5678 May 01 21:24	0°♏	
	5677 May 26 07:06	0°♐		morning set	5678 May 08 09:33	11°♏22'56	
max. Earth dist.	5677 May 29 22:51	7°♐08'01	1.34440 AU	max. Earth dist.	5678 May 12 02:30	18°♏13'55	1.36197 AU
superior conj	5677 Jun 03 10:29	16°♐15'16	-0°29'15	superior conj	5678 May 18 01:25	29°♏47'18	-0°59'27
minimum elong	5677 Jun 03 12:05	16°♐23'31	0°28'57	minimum elong	5678 May 18 04:47	0°♐04'01	0°58'52
asc. node	5677 Jun 06 07:33	22°♐15'54			5678 May 18 03:58	0°♐	
	5677 Jun 09 23:50	0°♑		asc. node	5678 May 24 04:35	12°♐12'47	
evening rise	5677 Jun 10 22:59	2°♑00'48		evening rise	5678 May 26 04:27	16°♐16'32	
	5677 Jun 27 01:37	0°♑			5678 Jun 02 06:21	0°♑	
evening max el	5677 Jun 30 08:19	3°♑38'05	21°07'37	evening max el	5678 Jun 12 16:53	14°♑50'29	19°52'17
retrograde	5677 Jul 12 04:53	9°♑28'58		retrograde	5678 Jun 22 20:44	19°♑49'11	
desc. node	5677 Jul 12 08:51	9°♑28'54		evening set	5678 Jun 24 18:21	19°♑39'29	
evening set	5677 Jul 14 11:07	9°♑17'01		desc. node	5678 Jun 29 05:50	18°♑09'13	
inferior conj	5677 Jul 23 19:08	5°♑19'09	-3°17'01	inferior conj	5678 Jul 03 16:52	15°♑38'19	-1°20'21
minimum elong	5677 Jul 23 10:39	5°♑31'03	3°14'21	minimum elong	5678 Jul 03 13:09	15°♑44'01	1°18'58
min. Earth dist.	5677 Jul 24 05:45	5°♑04'13	0.54773 AU	min. Earth dist.	5678 Jul 05 17:59	14°♑23'22	0.55294 AU
morning rise	5677 Aug 01 10:38	1°♑22'39		morning rise	5678 Jul 12 06:00	11°♑14'55	
direct	5677 Aug 05 01:28	0°♑54'31		direct	5678 Jul 16 14:42	10°♑33'09	
morning max el	5677 Aug 17 20:15	6°♑59'10	22°37'04	morning max el	5678 Jul 30 10:24	17°♑23'11	24°21'35
asc. node	5677 Sep 02 06:49	28°♑48'00			5678 Aug 09 17:32	0°♑	
	5677 Sep 02 22:13	0°♒		asc. node	5678 Aug 20 03:51	18°♑10'38	
morning set	5677 Sep 09 01:00	12°♒16'39		morning set	5678 Aug 24 12:44	27°♑09'20	
					5678 Aug 25 20:42	0°♒	
superior conj	5677 Sep 16 03:00	27°♒23'51	1°41'21				
minimum elong	5677 Sep 16 02:06	27°♒19'03	1°41'19	superior conj	5678 Aug 31 11:14	12°♒11'28	1°33'43
	5677 Sep 17 08:29	0°♓		minimum elong	5678 Aug 31 09:26	12°♒01'41	1°33'32
max. Earth dist.	5677 Sep 19 07:42	4°♓06'57	1.34046 AU	max. Earth dist.	5678 Sep 02 09:22	16°♒21'13	1.32888 AU
evening rise	5677 Sep 24 00:25	13°♓35'47		evening rise	5678 Sep 07 19:13	27°♒42'05	
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































































































































desc. node	5678 Sep 25 05:08	28°♄34'01		max. Earth dist.	5679 Aug 16 17:14	28°♄49'32	1.32168 AU
	5678 Sep 26 04:06	0°♍			5679 Aug 17 06:03	0°♎	
evening max el	5678 Oct 11 04:30	18°♍33'01	27°27'23	evening rise	5679 Aug 22 21:46	12°♎09'10	
retrograde	5678 Oct 24 20:29	25°♍50'13			5679 Sep 01 02:23	0°♏	
evening set	5678 Oct 31 23:37	23°♍15'25		desc. node	5679 Sep 12 02:09	17°♏35'16	
min. Earth dist.	5678 Nov 04 16:07	20°♍04'36	0.63483 AU		5679 Sep 22 07:22	0°♐	
inferior conj	5678 Nov 07 07:36	17°♍25'14	-2°51'09	evening max el	5679 Sep 23 11:50	1°♐09'15	27°14'01
minimum elong	5678 Nov 07 12:38	17°♍12'34	2°49'18	retrograde	5679 Oct 07 08:21	8°♐22'21	
morning rise	5678 Nov 14 03:15	12°♍08'45		evening set	5679 Oct 14 11:04	6°♐03'52	
asc. node	5678 Nov 16 03:05	11°♍41'23		min. Earth dist.	5679 Oct 18 02:28	3°♐17'43	0.61570 AU
direct	5678 Nov 16 13:21	11°♍40'29		inferior conj	5679 Oct 21 03:47	0°♐34'34	-3°53'35
morning max el	5678 Nov 23 03:24	15°♍05'21	17°49'45	minimum elong	5679 Oct 21 10:09	0°♐20'23	3°51'43
	5678 Dec 03 13:56	0°♑			5679 Oct 21 19:21	30°♑♏	
morning set	5678 Dec 09 13:45	10°♑18'57		morning rise	5679 Oct 28 11:14	25°♏37'25	
	5678 Dec 21 03:34	0°♒		direct	5679 Oct 30 18:28	25°♏15'09	
				asc. node	5679 Nov 03 00:07	26°♏00'53	
superior conj	5678 Dec 21 20:31	1°♒09'56	0°02'20	morning max el	5679 Nov 06 18:48	28°♏47'04	17°54'26
minimum elong	5678 Dec 21 20:46	1°♒10'59	0°02'19		5679 Nov 07 22:34	0°♐	
behind sun begin	5678 Dec 21 11:16	0°♒31'48		morning set	5679 Nov 22 13:11	23°♐31'40	
behind sun end	5678 Dec 22 06:17	1°♒50'06			5679 Nov 26 02:42	0°♑	
desc. node	5678 Dec 22 04:23	1°♒42'20					
max. Earth dist.	5678 Dec 27 23:15	11°♒04'38	1.44269 AU	superior conj	5679 Dec 03 02:26	12°♑23'18	0°41'47
evening rise	5679 Jan 06 09:46	25°♒51'36		minimum elong	5679 Dec 03 05:46	12°♑37'45	0°41'20
	5679 Jan 09 02:37	0°♓		desc. node	5679 Dec 09 01:24	22°♑29'10	
	5679 Jan 29 19:18	0°♈		max. Earth dist.	5679 Dec 10 12:50	24°♑55'19	1.42768 AU
evening max el	5679 Feb 04 08:58	6°♈33'05	20°47'09		5679 Dec 13 15:52	0°♒	
asc. node	5679 Feb 12 02:20	11°♈25'08		evening rise	5679 Dec 17 02:11	5°♒27'16	
retrograde	5679 Feb 12 16:15	11°♈26'56			5680 Jan 02 10:30	0°♓	
evening set	5679 Feb 16 16:49	9°♈54'26		evening max el	5680 Jan 18 04:33	20°♓09'22	22°01'05
inferior conj	5679 Feb 22 00:58	3°♈43'51	2°49'58	retrograde	5680 Jan 27 13:24	25°♓43'22	
minimum elong	5679 Feb 21 22:41	3°♈51'45	2°49'26	asc. node	5680 Jan 29 23:21	25°♓12'37	
min. Earth dist.	5679 Feb 22 13:19	3°♈01'24	0.67754 AU	evening set	5680 Feb 01 00:36	23°♓55'37	
	5679 Feb 24 20:24	30°♓♓		inferior conj	5680 Feb 06 08:46	17°♓35'52	2°16'00
morning rise	5679 Feb 27 04:20	27°♓29'54		minimum elong	5680 Feb 06 06:25	17°♓44'03	2°15'17
direct	5679 Mar 04 15:14	25°♓04'48		min. Earth dist.	5680 Feb 06 09:00	17°♓35'05	0.68128 AU
	5679 Mar 13 21:47	0°♈		morning rise	5680 Feb 11 12:04	11°♓24'48	
morning max el	5679 Mar 15 13:57	1°♈37'04	24°00'06	direct	5680 Feb 16 08:30	9°♓20'51	
desc. node	5679 Mar 20 03:37	6°♈40'41		morning max el	5680 Feb 26 00:21	15°♓02'50	22°30'54
	5679 Apr 06 02:10	0°♉		desc. node	5680 Mar 06 00:39	25°♓46'54	
morning set	5679 Apr 20 04:26	22°♉46'44			5680 Mar 09 03:26	0°♈	
max. Earth dist.	5679 Apr 23 22:37	29°♉21'37	1.38286 AU		5680 Mar 29 02:03	0°♉	
	5679 Apr 24 07:13	0°♊		morning set	5680 Mar 30 20:45	2°♉53'33	
				max. Earth dist.	5680 Apr 04 18:47	11°♉05'13	1.40493 AU
superior conj	5679 May 01 04:04	12°♊40'35	-1°28'18				
minimum elong	5679 May 01 08:53	13°♊03'26	1°27'39	superior conj	5680 Apr 12 14:07	24°♉44'50	-1°52'30
evening rise	5679 May 10 03:11	0°♊08'16		minimum elong	5680 Apr 12 19:07	25°♉07'25	1°52'05
	5679 May 10 01:30	0°♊			5680 Apr 15 11:19	0°♊	
asc. node	5679 May 11 01:36	1°♊58'08		evening rise	5680 Apr 22 15:57	13°♊27'38	
evening max el	5679 May 26 13:33	26°♊46'00	18°57'01	asc. node	5680 Apr 26 22:38	21°♊27'05	
	5679 May 31 00:06	0°♋			5680 May 01 20:07	0°♊	
retrograde	5679 Jun 04 02:46	0°♋57'42		evening max el	5680 May 08 19:15	9°♊18'21	18°22'10
evening set	5679 Jun 06 03:35	0°♋44'24		retrograde	5680 May 16 03:43	12°♊57'47	
	5679 Jun 08 10:37	30°♋♊		evening set	5680 May 18 11:35	12°♊36'45	
inferior conj	5679 Jun 14 07:32	26°♊28'28	0°31'48	inferior conj	5680 May 25 19:49	8°♊00'50	1°57'44
minimum elong	5679 Jun 14 08:48	26°♊26'16	0°31'19	minimum elong	5680 May 25 23:09	7°♊53'56	1°56'44
desc. node	5679 Jun 16 02:51	25°♊11'46		min. Earth dist.	5680 May 29 06:12	5°♊12'03	0.58668 AU
min. Earth dist.	5679 Jun 17 09:44	24°♊18'24	0.56687 AU	desc. node	5680 Jun 01 23:53	2°♊39'19	
morning rise	5679 Jun 22 10:39	21°♊28'38		morning rise	5680 Jun 02 07:35	2°♊28'48	
direct	5679 Jun 27 17:33	20°♊21'57		direct	5680 Jun 08 10:44	0°♊49'11	
morning max el	5679 Jul 12 00:46	27°♊46'12	25°57'54	morning max el	5680 Jun 22 20:01	8°♊34'28	27°10'25
	5679 Jul 14 05:18	0°♋			5680 Jul 09 02:18	0°♌	
	5679 Aug 03 02:04	0°♍		morning set	5680 Jul 23 08:52	26°♌38'58	
asc. node	5679 Aug 07 00:52	7°♍52'27		asc. node	5680 Jul 23 21:55	27°♌47'44	
morning set	5679 Aug 08 23:53	11°♍58'21			5680 Jul 24 22:46	0°♎	
superior conj	5679 Aug 15 22:12	27°♎04'45	1°20'47	superior conj	5680 Jul 30 10:03	11°♎57'44	1°03'10
minimum elong	5679 Aug 15 19:57	26°♎52'22	1°20'27	minimum elong	5680 Jul 30 07:49	11°♎45'26	1°02'46

max. Earth dist.	5680 Jul 30 04:11	11°Ω25'16	1.31884 AU		5681 Jul 16 08:34	0°Ω	
evening rise	5680 Aug 06 05:32	26°Ω49'39		evening rise	5681 Jul 21 16:17	11°Ω35'55	
	5680 Aug 07 17:49	0°Π			5681 Jul 30 23:37	0°Π	
	5680 Aug 24 17:19	0°Δ		desc. node	5681 Aug 15 20:11	22°Π36'26	
desc. node	5680 Aug 28 23:10	5°Δ43'12		evening max el	5681 Aug 17 06:18	24°Π01'19	25°10'16
evening max el	5680 Sep 04 12:55	12°Δ59'53	26°26'59		5681 Aug 25 22:25	0°Δ	
retrograde	5680 Sep 18 11:35	20°Δ07'46		retrograde	5681 Aug 31 04:19	1°Δ03'39	
evening set	5680 Sep 25 03:36	18°Δ17'42			5681 Sep 05 10:46	30°RΠ	
min. Earth dist.	5680 Sep 29 02:28	15°Δ42'43	0.59507 AU	evening set	5681 Sep 05 20:40	29°Π49'56	
inferior conj	5680 Oct 02 08:08	13°Δ11'59	-4°46'34	min. Earth dist.	5681 Sep 10 17:51	27°Π08'18	0.57501 AU
minimum elong	5680 Oct 02 14:01	13°Δ00'29	4°45'28	inferior conj	5681 Sep 13 17:22	25°Π07'57	-5°17'59
morning rise	5680 Oct 10 02:35	8°Δ36'47		minimum elong	5681 Sep 13 19:35	25°Π04'12	5°17'52
direct	5680 Oct 12 10:33	8°Δ17'29		morning rise	5681 Sep 21 20:46	20°Π55'43	
asc. node	5680 Oct 19 21:09	11°Δ46'05		direct	5681 Sep 24 09:25	20°Π36'55	
morning max el	5680 Oct 20 05:10	12°Δ05'03	18°18'44	morning max el	5681 Oct 03 07:08	24°Π49'57	19°04'15
	5680 Nov 01 04:15	0°Π		asc. node	5681 Oct 06 18:13	28°Π42'41	
morning set	5680 Nov 05 02:30	7°Π23'17			5681 Oct 07 17:27	0°Δ	
				morning set	5681 Oct 20 01:23	21°Δ41'51	
superior conj	5680 Nov 14 08:08	24°Π45'09	1°11'15		5681 Oct 24 05:53	0°Π	
minimum elong	5680 Nov 14 11:55	25°Π02'24	1°10'49				
	5680 Nov 17 05:53	0°♂		superior conj	5681 Oct 28 08:26	8°Π01'17	1°30'30
max. Earth dist.	5680 Nov 21 21:45	8°♂08'20	1.40843 AU	minimum elong	5681 Oct 28 11:12	8°Π14'31	1°30'18
desc. node	5680 Nov 24 22:26	13°♂14'50		max. Earth dist.	5681 Nov 04 03:20	20°Π40'14	1.38724 AU
evening rise	5680 Nov 26 13:04	15°♂54'24		evening rise	5681 Nov 07 22:42	27°Π23'08	
	5680 Dec 05 10:58	0°♂			5681 Nov 09 11:19	0°♂	
	5680 Dec 27 07:22	0°≈		desc. node	5681 Nov 11 19:28	3°♂55'45	
evening max el	5680 Dec 30 20:05	3°≈48'45	23°20'32		5681 Nov 28 23:29	0°♂	
retrograde	5681 Jan 10 07:47	10°≈00'51		evening max el	5681 Dec 13 09:20	17°♂31'52	24°39'19
evening set	5681 Jan 15 07:08	7°≈57'34		retrograde	5681 Dec 24 22:21	24°♂15'43	
asc. node	5681 Jan 15 20:24	7°≈28'10		evening set	5681 Dec 30 10:55	21°♂57'36	
min. Earth dist.	5681 Jan 20 05:46	2°≈10'28	0.68117 AU	asc. node	5682 Jan 02 17:26	18°♂27'40	
inferior conj	5681 Jan 20 16:52	1°≈32'20	1°34'07	min. Earth dist.	5682 Jan 04 01:21	16°♂44'35	0.67734 AU
minimum elong	5681 Jan 20 14:55	1°≈39'00	1°33'24	inferior conj	5682 Jan 04 23:29	15°♂31'02	0°45'12
	5681 Jan 21 19:59	30°R♂		minimum elong	5682 Jan 04 22:25	15°♂34'35	0°44'47
morning rise	5681 Jan 25 22:38	25°♂25'51		morning rise	5682 Jan 10 10:04	9°♂30'59	
direct	5681 Jan 30 04:55	23°♂44'43		direct	5682 Jan 14 03:16	8°♂11'46	
morning max el	5681 Feb 07 16:07	28°♂38'13	21°07'42	morning max el	5682 Jan 21 15:43	12°♂26'19	19°56'15
	5681 Feb 08 23:30	0°≈			5682 Feb 04 01:50	0°≈	
desc. node	5681 Feb 20 21:41	15°≈26'19		desc. node	5682 Feb 07 18:44	5°≈30'14	
	5681 Mar 02 18:53	0°♂		morning set	5682 Feb 17 05:52	19°≈54'57	
morning set	5681 Mar 10 09:06	11°♂42'27			5682 Feb 23 17:30	0°♂	
max. Earth dist.	5681 Mar 17 21:23	23°♂44'27	1.42533 AU	max. Earth dist.	5682 Feb 28 07:51	7°♂16'19	1.44134 AU
	5681 Mar 21 16:14	0°Υ					
superior conj	5681 Mar 25 02:32	5°Υ47'47	-2°07'24	superior conj	5682 Mar 05 13:46	15°♂43'16	-2°07'16
minimum elong	5681 Mar 25 05:05	5°Υ58'40	2°07'19	minimum elong	5682 Mar 05 10:35	15°♂30'17	2°07'10
evening rise	5681 Apr 05 14:42	26°Υ04'31			5682 Mar 14 04:23	0°Υ	
	5681 Apr 07 19:03	0°♂		evening rise	5682 Mar 18 19:04	7°Υ50'53	
asc. node	5681 Apr 13 19:40	10°♂32'58		asc. node	5682 Mar 31 16:42	29°Υ08'50	
evening max el	5681 Apr 22 06:13	22°♂16'36	18°07'05		5682 Apr 01 06:55	0°♂	
retrograde	5681 Apr 28 21:55	25°♂40'19		evening max el	5682 Apr 05 19:08	5°♂32'30	18°11'08
evening set	5681 May 01 12:45	25°♂08'57		retrograde	5682 Apr 12 04:56	8°♂55'36	
inferior conj	5681 May 08 04:10	20°♂12'17	2°53'14	evening set	5682 Apr 15 02:09	8°♂12'26	
minimum elong	5681 May 08 07:09	20°♂05'09	2°52'36	inferior conj	5682 Apr 21 04:52	2°♂56'17	3°22'28
min. Earth dist.	5681 May 11 09:25	17°♂08'41	0.60878 AU	minimum elong	5682 Apr 21 06:24	2°♂52'07	3°22'17
morning rise	5681 May 14 23:23	14°♂17'57			5682 Apr 23 22:10	30°RΥ	
desc. node	5681 May 19 20:55	12°♂14'56		min. Earth dist.	5682 Apr 23 21:36	0°♂01'28	0.63012 AU
direct	5681 May 21 15:24	12°♂05'47		morning rise	5682 Apr 27 09:23	26°Υ49'01	
morning max el	5681 Jun 04 21:46	20°♂02'30	27°48'39	direct	5682 May 04 05:29	24°Υ12'24	
	5681 Jun 13 10:12	0°Π		desc. node	5682 May 06 17:58	24°Υ31'39	
	5681 Jul 01 23:43	0°♂			5682 May 15 20:50	0°♂	
morning set	5681 Jul 07 13:50	11°♂04'57		morning max el	5682 May 18 05:00	2°♂12'57	27°48'58
asc. node	5681 Jul 10 18:57	17°♂50'52			5682 Jun 07 17:49	0°Π	
max. Earth dist.	5681 Jul 13 14:25	23°♂56'24	1.32023 AU	morning set	5682 Jun 21 12:36	25°Π10'01	
					5682 Jun 23 21:27	0°♂	
superior conj	5681 Jul 14 20:59	26°♂44'07	0°41'24	max. Earth dist.	5682 Jun 26 19:59	6°♂10'38	1.32595 AU
minimum elong	5681 Jul 14 19:15	26°♂34'37	0°41'02	asc. node	5682 Jun 27 16:00	7°♂57'37	

superior conj	5682 Jun 29 05:13	11°☿18'16	0°16'03	morning set	5683 Jun 05 02:26	8°♂45'57	
minimum elong	5682 Jun 29 04:28	11°☿14'08	0°15'52	max. Earth dist.	5683 Jun 09 16:52	17°♂57'00	1.33625 AU
behind sun begin	5682 Jun 29 03:57	11°☿11'25					
behind sun end	5682 Jun 29 04:58	11°☿16'52		superior conj	5683 Jun 13 08:46	25°♂34'21	-0°12'09
evening rise	5682 Jul 06 04:06	26°☿21'45		minimum elong	5683 Jun 13 09:24	25°♂37'43	0°12'02
	5682 Jul 07 21:32	0°♂		behind sun begin	5683 Jun 13 05:42	25°♂18'14	
	5682 Jul 25 16:51	0°♂		behind sun end	5683 Jun 13 13:05	25°♂57'12	
evening max el	5682 Jul 29 18:37	4°♂26'57	23°35'26	asc. node	5683 Jun 14 13:01	28°♂04'00	
desc. node	5682 Aug 02 17:13	7°♂46'05			5683 Jun 15 10:49	0°☿	
retrograde	5682 Aug 12 09:09	11°♂16'36		evening rise	5683 Jun 20 15:05	11°☿01'08	
evening set	5682 Aug 16 14:25	10°♂37'31			5683 Jun 30 10:29	0°♂	
min. Earth dist.	5682 Aug 23 04:24	7°♂31'30	0.55856 AU	evening max el	5683 Jul 11 09:47	14°♂49'22	21°58'42
inferior conj	5682 Aug 25 06:25	6°♂16'56	-5°11'09	desc. node	5683 Jul 20 14:13	20°♂38'29	
minimum elong	5682 Aug 25 02:07	6°♂23'23	5°10'44	retrograde	5683 Jul 24 02:41	21°♂07'31	
morning rise	5682 Sep 02 16:15	2°♂22'57		evening set	5683 Jul 26 21:34	20°♂50'10	
direct	5682 Sep 05 12:38	2°♂02'51		min. Earth dist.	5683 Aug 04 14:19	17°♂05'56	0.54903 AU
morning max el	5682 Sep 15 21:51	6°♂52'49	20°11'47	inferior conj	5683 Aug 05 03:51	16°♂46'56	-4°12'45
asc. node	5682 Sep 23 15:16	16°♂35'25		minimum elong	5683 Aug 04 19:01	16°♂59'21	4°10'34
	5682 Oct 01 03:21	0°♂		morning rise	5683 Aug 13 18:01	12°♂56'46	
morning set	5682 Oct 04 06:38	6°♂17'47		direct	5683 Aug 17 00:43	12°♂33'00	
				morning max el	5683 Aug 29 00:28	18°♂10'01	21°39'35
superior conj	5682 Oct 11 22:15	21°♂56'42	1°40'40		5683 Sep 07 09:49	0°♂	
minimum elong	5682 Oct 11 23:30	22°♂02'57	1°40'38	asc. node	5683 Sep 10 12:18	5°♂11'21	
	5682 Oct 16 00:03	0°♂		morning set	5683 Sep 18 15:52	21°♂04'39	
max. Earth dist.	5682 Oct 17 09:26	2°♂40'19	1.36670 AU		5683 Sep 22 21:27	0°♂	
evening rise	5682 Oct 21 05:24	9°♂48'56					
desc. node	5682 Oct 29 16:29	24°♂27'09		superior conj	5683 Sep 25 21:35	6°♂19'49	1°43'03
	5682 Nov 02 03:22	0°♂		minimum elong	5683 Sep 25 21:23	6°♂18'45	1°43'03
	5682 Nov 24 15:36	0°♂		max. Earth dist.	5683 Sep 29 21:26	14°♂32'25	1.34893 AU
evening max el	5682 Nov 25 21:54	1°♂15'47	25°50'32	evening rise	5683 Oct 04 05:19	23°♂02'41	
retrograde	5682 Dec 08 08:18	8°♂21'41			5683 Oct 07 22:51	0°♂	
evening set	5682 Dec 14 10:14	5°♂51'11		desc. node	5683 Oct 16 13:30	14°♂43'59	
min. Earth dist.	5682 Dec 18 17:28	1°♂12'56	0.66990 AU		5683 Oct 26 19:45	0°♂	
	5682 Dec 19 16:38	30°♂♂		evening max el	5683 Nov 08 10:40	14°♂55'27	26°46'43
inferior conj	5682 Dec 20 02:47	29°♂27'57	-0°09'57	retrograde	5683 Nov 21 12:55	22°♂12'17	
minimum elong	5682 Dec 20 03:02	29°♂27'08	0°09'49	evening set	5683 Nov 28 03:07	19°♂34'10	
transit middle	5682 Dec 20 03:02	29°♂27'08	0°09'49	min. Earth dist.	5683 Dec 02 03:53	15°♂30'56	0.65894 AU
transit begin	5682 Dec 20 00:47	29°♂34'14		inferior conj	5683 Dec 04 00:43	13°♂19'30	-1°10'15
transit end	5682 Dec 20 05:17	29°♂20'03		minimum elong	5683 Dec 04 02:42	13°♂13'40	1°09'22
asc. node	5682 Dec 20 14:29	28°♂51'10		asc. node	5683 Dec 07 11:31	9°♂35'40	
morning rise	5682 Dec 25 20:19	23°♂36'27		morning rise	5683 Dec 10 03:11	7°♂38'59	
direct	5682 Dec 29 02:01	22°♂36'24		direct	5683 Dec 12 23:22	6°♂54'19	
morning max el	5683 Jan 04 23:02	26°♂23'58	18°59'31	morning max el	5683 Dec 19 12:11	10°♂25'55	18°18'55
	5683 Jan 08 03:39	0°♂			5684 Jan 02 08:00	0°♂	
desc. node	5683 Jan 25 15:45	25°♂51'14		morning set	5684 Jan 07 19:55	8°♂51'04	
morning set	5683 Jan 27 11:28	28°♂41'34		desc. node	5684 Jan 12 12:45	16°♂24'21	
	5683 Jan 28 07:36	0°♂			5684 Jan 21 02:20	0°♂	
max. Earth dist.	5683 Feb 10 23:50	21°♂22'52	1.45105 AU				
superior conj	5683 Feb 13 02:08	24°♂40'51	-1°47'39	superior conj	5684 Jan 23 05:22	3°♂20'40	-1°10'05
minimum elong	5683 Feb 12 17:21	24°♂06'12	1°46'57	minimum elong	5684 Jan 22 21:05	2°♂48'09	1°09'03
	5683 Feb 16 10:49	0°♂		max. Earth dist.	5684 Jan 24 18:33	5°♂46'28	1.45354 AU
evening rise	5683 Feb 28 01:05	18°♂39'45		evening rise	5684 Feb 08 08:03	28°♂33'47	
	5683 Mar 06 23:59	0°♂			5684 Feb 09 06:03	0°♂	
asc. node	5683 Mar 18 13:44	17°♂05'04		greatest brilliancy	5684 Feb 19 07:56	15°♂42'47	-0.8m
evening max el	5683 Mar 20 07:10	18°♂58'57	18°33'43		5684 Feb 29 10:03	0°♂	
retrograde	5683 Mar 26 20:17	22°♂34'22		evening max el	5684 Mar 02 16:03	2°♂30'46	19°13'44
evening set	5683 Mar 29 23:56	21°♂38'28		asc. node	5684 Mar 04 10:45	4°♂09'49	
inferior conj	5683 Apr 04 17:46	16°♂04'40	3°31'16	retrograde	5684 Mar 09 16:21	6°♂29'41	
minimum elong	5683 Apr 04 17:44	16°♂04'44	3°31'16	evening set	5684 Mar 13 03:11	5°♂20'12	
min. Earth dist.	5683 Apr 06 19:16	13°♂36'42	0.64862 AU		5684 Mar 18 06:07	30°♂♂	
morning rise	5683 Apr 10 10:52	9°♂51'17		inferior conj	5684 Mar 18 15:18	29°♂30'30	3°24'30
direct	5683 Apr 17 03:33	7°♂02'42		minimum elong	5684 Mar 18 14:02	29°♂34'34	3°24'23
desc. node	5683 Apr 23 14:59	9°♂10'04		min. Earth dist.	5684 Mar 20 01:28	27°♂40'28	0.66324 AU
morning max el	5683 Apr 30 14:57	14°♂57'00	27°14'17	morning rise	5684 Mar 24 00:32	23°♂15'15	
	5683 May 12 21:47	0°♂		direct	5684 Mar 30 08:13	20°♂27'46	
	5683 May 31 10:56	0°♂		desc. node	5684 Apr 09 12:01	25°♂36'37	
				morning max el	5684 Apr 12 00:49	28°♂01'22	26°11'43

	5684 Apr 13 21:55	0°♿	direct	5685 Mar 13 18:24	4°♿19'04	
	5684 May 05 15:17	0°♿	morning max el	5685 Mar 25 09:37	11°♿16'40	24°50'55
morning set	5684 May 18 03:32	21°♿41'15	desc. node	5685 Mar 27 09:01	13°♿21'45	
max. Earth dist.	5684 May 22 02:20	29°♿12'28	1.35131 AU	5685 Apr 09 08:21	0°♿	
	5684 May 22 12:05	0°♿		5685 Apr 28 08:20	0°♿	
			morning set	5685 Apr 30 11:08	3°♿42'50	
superior conj	5684 May 27 05:08	9°♿24'51	-0°42'03	max. Earth dist.	5685 May 04 01:56	10°♿14'53
minimum elong	5684 May 27 07:28	9°♿36'47	0°41'38			1.37058 AU
asc. node	5684 May 31 10:02	18°♿05'26		superior conj	5685 May 10 15:22	22°♿42'08
evening rise	5684 Jun 03 23:11	25°♿27'14		minimum elong	5685 May 10 19:25	23°♿01'56
	5684 Jun 06 04:40	0°♿			5685 May 14 07:51	0°♿
evening max el	5684 Jun 22 11:12	25°♿39'04	20°33'20	asc. node	5685 May 18 07:03	7°♿58'09
	5684 Jun 28 12:51	0°♿		evening rise	5685 May 19 02:09	9°♿33'54
retrograde	5684 Jul 03 15:03	1°♿07'38			5685 May 30 07:37	0°♿
evening set	5684 Jul 05 15:27	0°♿57'39		evening max el	5685 Jun 05 01:17	7°♿10'32
desc. node	5684 Jul 06 11:15	0°♿48'04		retrograde	5685 Jun 14 11:27	11°♿47'19
	5684 Jul 09 00:53	30°♿		evening set	5685 Jun 16 09:48	11°♿36'33
inferior conj	5684 Jul 14 21:12	27°♿00'39	-2°29'09	desc. node	5685 Jun 23 08:15	8°♿34'50
minimum elong	5684 Jul 14 14:21	27°♿10'32	2°26'46	inferior conj	5685 Jun 25 01:01	7°♿30'09
min. Earth dist.	5684 Jul 16 01:31	26°♿19'51	0.54877 AU	minimum elong	5685 Jun 24 23:40	7°♿32'21
morning rise	5684 Jul 23 12:31	22°♿54'26		min. Earth dist.	5685 Jun 27 14:53	5°♿50'39
direct	5684 Jul 27 10:19	22°♿21'31		morning rise	5685 Jul 03 10:50	2°♿51'54
morning max el	5684 Aug 09 17:22	28°♿47'06	23°21'20	direct	5685 Jul 08 05:05	2°♿00'45
	5684 Aug 10 23:16	0°♿		morning max el	5685 Jul 22 06:37	9°♿06'14
asc. node	5684 Aug 27 09:20	24°♿19'09			5685 Aug 06 20:24	0°♿
	5684 Aug 30 06:27	0°♿		asc. node	5685 Aug 14 06:21	13°♿50'33
morning set	5684 Sep 02 03:10	5°♿56'15		morning set	5685 Aug 17 14:52	20°♿47'43
					5685 Aug 21 20:57	0°♿
superior conj	5684 Sep 09 03:17	21°♿00'22	1°38'48			
minimum elong	5684 Sep 09 01:56	20°♿53'11	1°38'42	superior conj	5685 Aug 24 12:55	5°♿50'48
max. Earth dist.	5684 Sep 11 18:15	26°♿36'03	1.33503 AU	minimum elong	5685 Aug 24 10:52	5°♿39'36
	5684 Sep 13 09:12	0°♿		max. Earth dist.	5685 Aug 25 23:06	8°♿57'31
evening rise	5684 Sep 16 18:18	6°♿52'38		evening rise	5685 Aug 31 16:46	21°♿08'46
	5684 Sep 29 12:29	0°♿			5685 Sep 05 03:29	0°♿
desc. node	5684 Oct 02 10:31	4°♿39'10		desc. node	5685 Sep 19 07:32	24°♿03'34
evening max el	5684 Oct 20 23:07	28°♿21'15	27°20'39		5685 Sep 23 13:00	0°♿
	5684 Oct 22 18:36	0°♿		evening max el	5685 Oct 03 09:13	11°♿19'49
retrograde	5684 Nov 03 11:30	5°♿39'31		retrograde	5685 Oct 17 03:12	18°♿34'30
evening set	5684 Nov 10 11:10	3°♿01'08		evening set	5685 Oct 24 07:14	16°♿05'26
	5684 Nov 13 19:27	30°♿		min. Earth dist.	5685 Oct 27 22:46	13°♿06'13
min. Earth dist.	5684 Nov 14 06:19	29°♿31'58	0.64453 AU	inferior conj	5685 Oct 30 18:42	10°♿23'57
inferior conj	5684 Nov 16 14:58	27°♿00'32	-2°13'59	minimum elong	5685 Oct 31 00:25	10°♿10'14
minimum elong	5684 Nov 16 18:55	26°♿49'58	2°12'24	morning rise	5685 Nov 06 19:20	5°♿15'01
morning rise	5684 Nov 23 03:59	21°♿34'04		direct	5685 Nov 09 03:56	4°♿49'34
asc. node	5684 Nov 23 08:34	21°♿29'19		asc. node	5685 Nov 10 05:37	4°♿54'56
direct	5684 Nov 25 17:03	21°♿00'49		morning max el	5685 Nov 15 21:16	8°♿16'17
morning max el	5684 Dec 02 04:36	24°♿25'47	17°55'19		5685 Nov 30 03:32	0°♿
	5684 Dec 06 17:54	0°♿		morning set	5685 Dec 01 22:30	3°♿10'07
morning set	5684 Dec 19 09:31	20°♿26'57				
	5684 Dec 25 02:19	0°♿		superior conj	5685 Dec 13 10:21	23°♿06'21
desc. node	5684 Dec 29 09:46	7°♿05'43		minimum elong	5685 Dec 13 12:17	23°♿14'29
				desc. node	5685 Dec 16 06:47	27°♿51'25
superior conj	5685 Jan 01 19:43	12°♿37'37	-0°23'49		5685 Dec 17 14:03	0°♿
minimum elong	5685 Jan 01 16:54	12°♿26'17	0°23'23	max. Earth dist.	5685 Dec 20 06:31	4°♿22'07
max. Earth dist.	5685 Jan 06 13:41	20°♿12'01	1.44864 AU	evening rise	5685 Dec 28 09:16	17°♿11'24
	5685 Jan 12 19:48	0°♿			5686 Jan 05 19:23	0°♿
evening rise	5685 Jan 17 22:13	7°♿52'52		evening max el	5686 Jan 27 18:49	29°♿40'21
greatest brilliancy	5685 Feb 01 16:28	0°♿10'17	-0.6m		5686 Jan 28 02:37	0°♿
	5685 Feb 01 13:39	0°♿		retrograde	5686 Feb 05 12:23	4°♿50'41
evening max el	5685 Feb 13 20:13	16°♿05'16	20°09'19	asc. node	5686 Feb 06 04:51	4°♿48'11
asc. node	5685 Feb 19 07:48	20°♿09'18		evening set	5686 Feb 09 17:24	3°♿11'33
retrograde	5685 Feb 21 14:25	20°♿36'44			5686 Feb 12 18:41	30°♿
evening set	5685 Feb 25 09:38	19°♿12'48		inferior conj	5686 Feb 15 01:21	26°♿56'44
inferior conj	5685 Mar 02 18:37	13°♿09'15	3°05'32	minimum elong	5686 Feb 14 22:59	27°♿04'58
minimum elong	5685 Mar 02 16:34	13°♿16'12	3°05'09	min. Earth dist.	5686 Feb 15 08:21	26°♿32'30
min. Earth dist.	5685 Mar 03 14:32	12°♿01'57	0.67357 AU	morning rise	5686 Feb 20 04:23	20°♿44'07
morning rise	5685 Mar 07 23:17	6°♿54'33		direct	5686 Feb 25 09:11	18°♿27'43

morning max el	5686 Mar 07 18:39	24° $\approx$ 38'20	23°21'59	morning max el	5687 Feb 18 07:05	8° $\approx$ 08'17	21°54'23
	5686 Mar 12 14:06	0° $\mathbb{H}$		desc. node	5687 Mar 01 03:06	21° $\approx$ 24'13	
desc. node	5686 Mar 14 06:03	2° $\mathbb{H}$ 02'43			5687 Mar 07 04:57	0° $\mathbb{H}$	
	5686 Apr 02 19:37	0° $\mathbb{Y}$		morning set	5687 Mar 22 23:16	24° $\mathbb{H}$ 06'28	
morning set	5686 Apr 11 19:16	14° $\mathbb{Y}$ 34'39			5687 Mar 26 14:23	0° $\mathbb{Y}$	
max. Earth dist.	5686 Apr 15 21:34	21° $\mathbb{Y}$ 35'46	1.39232 AU	max. Earth dist.	5687 Mar 28 20:05	3° $\mathbb{Y}$ 42'15	1.41397 AU
	5686 Apr 20 14:51	0° $\mathbb{B}$					
superior conj	5686 Apr 23 11:31	5° $\mathbb{B}$ 15'38	-1°39'22	superior conj	5687 Apr 05 12:52	16° $\mathbb{Y}$ 54'20	-2°00'18
minimum elong	5686 Apr 23 16:38	5° $\mathbb{B}$ 39'27	1°38'47	minimum elong	5687 Apr 05 17:15	17° $\mathbb{Y}$ 13'37	2°00'01
evening rise	5686 May 02 21:04	23° $\mathbb{B}$ 12'50			5687 Apr 12 19:08	0° $\mathbb{B}$	
asc. node	5686 May 05 04:06	27° $\mathbb{B}$ 37'09		evening rise	5687 Apr 16 04:24	6° $\mathbb{B}$ 15'11	
	5686 May 06 10:14	0° $\mathbb{II}$		asc. node	5687 Apr 22 01:08	16° $\mathbb{B}$ 57'03	
evening max el	5686 May 19 02:09	19° $\mathbb{II}$ 22'13	18°39'40		5687 Apr 30 12:19	0° $\mathbb{II}$	
retrograde	5686 May 27 01:40	23° $\mathbb{II}$ 18'25		evening max el	5687 May 02 10:26	2° $\mathbb{II}$ 06'05	18°13'22
evening set	5686 May 29 05:24	23° $\mathbb{II}$ 02'11		retrograde	5687 May 09 10:35	5° $\mathbb{II}$ 37'19	
inferior conj	5686 Jun 06 00:43	18° $\mathbb{II}$ 37'38	1°12'01	evening set	5687 May 11 21:19	5° $\mathbb{II}$ 12'17	
minimum elong	5686 Jun 06 03:14	18° $\mathbb{II}$ 32'52	1°11'08	inferior conj	5687 May 18 21:56	0° $\mathbb{II}$ 27'26	2°24'51
min. Earth dist.	5686 Jun 09 08:07	16° $\mathbb{II}$ 08'49	0.57480 AU	minimum elong	5687 May 19 01:20	0° $\mathbb{II}$ 19'55	2°23'57
desc. node	5686 Jun 10 05:16	15° $\mathbb{II}$ 31'44			5687 May 19 10:18	30° $\mathbb{R}$ $\mathbb{B}$	
morning rise	5686 Jun 13 21:44	13° $\mathbb{II}$ 23'10		min. Earth dist.	5687 May 22 07:22	27° $\mathbb{B}$ 29'06	0.59591 AU
direct	5686 Jun 19 13:44	12° $\mathbb{II}$ 03'24		morning rise	5687 May 26 02:31	24° $\mathbb{B}$ 44'15	
morning max el	5686 Jul 03 22:43	19° $\mathbb{II}$ 37'19	26°32'31	desc. node	5687 May 28 02:19	23° $\mathbb{B}$ 44'28	
	5686 Jul 12 18:41	0° $\mathbb{D}$		direct	5687 Jun 01 11:58	22° $\mathbb{B}$ 50'17	
	5686 Jul 30 08:53	0° $\mathbb{Q}$			5687 Jun 15 03:31	0° $\mathbb{II}$	
asc. node	5686 Aug 01 03:24	3° $\mathbb{Q}$ 38'59		morning max el	5687 Jun 15 20:58	0° $\mathbb{II}$ 42'12	27°31'22
morning set	5686 Aug 02 01:21	5° $\mathbb{Q}$ 34'19			5687 Jul 06 21:27	0° $\mathbb{D}$	
				morning set	5687 Jul 17 08:52	20° $\mathbb{D}$ 09'47	
superior conj	5686 Aug 09 00:30	20° $\mathbb{Q}$ 44'52	1°13'51	asc. node	5687 Jul 19 00:25	23° $\mathbb{D}$ 38'15	
minimum elong	5686 Aug 08 22:12	20° $\mathbb{Q}$ 32'11	1°13'29		5687 Jul 21 23:06	0° $\mathbb{Q}$	
max. Earth dist.	5686 Aug 09 08:57	21° $\mathbb{Q}$ 31'32	1.31999 AU	max. Earth dist.	5687 Jul 23 20:03	4° $\mathbb{Q}$ 06'56	1.31884 AU
	5686 Aug 13 05:41	0° $\mathbb{P}$					
evening rise	5686 Aug 15 21:52	5° $\mathbb{P}$ 42'43		superior conj	5687 Jul 24 12:10	5° $\mathbb{Q}$ 35'54	0°54'25
	5686 Aug 28 17:59	0° $\mathbb{L}$		minimum elong	5687 Jul 24 10:06	5° $\mathbb{Q}$ 24'27	0°54'01
desc. node	5686 Sep 06 04:33	12° $\mathbb{L}$ 44'45		evening rise	5687 Jul 31 07:07	20° $\mathbb{Q}$ 26'21	
evening max el	5686 Sep 15 14:10	23° $\mathbb{L}$ 37'57	26°57'59		5687 Aug 04 22:35	0° $\mathbb{P}$	
	5686 Sep 25 01:35	0° $\mathbb{M}$			5687 Aug 23 17:20	0° $\mathbb{L}$	
retrograde	5686 Sep 29 11:24	0° $\mathbb{M}$ 48'32		desc. node	5687 Aug 24 01:35	0° $\mathbb{L}$ 24'21	
	5686 Oct 03 18:23	30° $\mathbb{R}$ $\mathbb{L}$		evening max el	5687 Aug 28 11:44	5° $\mathbb{L}$ 06'40	25°57'26
evening set	5686 Oct 06 11:19	28° $\mathbb{L}$ 40'32		retrograde	5687 Sep 11 10:48	12° $\mathbb{L}$ 13'23	
min. Earth dist.	5686 Oct 10 04:24	26° $\mathbb{L}$ 01'27	0.60705 AU	evening set	5687 Sep 17 18:24	10° $\mathbb{L}$ 37'57	
inferior conj	5686 Oct 13 08:38	23° $\mathbb{L}$ 21'23	-4°17'46	min. Earth dist.	5687 Sep 22 00:18	8° $\mathbb{L}$ 02'34	0.58628 AU
minimum elong	5686 Oct 13 15:07	23° $\mathbb{L}$ 07'45	4°16'09	inferior conj	5687 Sep 25 05:11	5° $\mathbb{L}$ 42'12	-5°03'27
morning rise	5686 Oct 20 20:58	18° $\mathbb{L}$ 33'31		minimum elong	5687 Sep 25 09:58	5° $\mathbb{L}$ 33'24	5°02'49
direct	5686 Oct 23 04:11	18° $\mathbb{L}$ 12'45		morning rise	5687 Oct 03 03:50	1° $\mathbb{L}$ 17'16	
asc. node	5686 Oct 28 02:40	19° $\mathbb{L}$ 53'06		direct	5687 Oct 05 13:11	0° $\mathbb{L}$ 58'33	
morning max el	5686 Oct 30 11:02	21° $\mathbb{L}$ 49'47	18°02'20	morning max el	5687 Oct 13 18:22	4° $\mathbb{L}$ 55'36	18°35'27
	5686 Nov 05 17:39	0° $\mathbb{M}$		asc. node	5687 Oct 14 23:42	6° $\mathbb{L}$ 10'46	
morning set	5686 Nov 15 04:30	16° $\mathbb{M}$ 41'44		morning set	5687 Oct 29 22:19	0° $\mathbb{M}$ 45'58	
	5686 Nov 22 09:58	0° $\mathbb{X}$			5687 Oct 29 12:49	0° $\mathbb{M}$	
superior conj	5686 Nov 25 03:05	4° $\mathbb{X}$ 51'24	0°55'33	superior conj	5687 Nov 07 17:24	17° $\mathbb{M}$ 38'35	1°20'35
minimum elong	5686 Nov 25 06:52	5° $\mathbb{X}$ 08'08	0°55'04	minimum elong	5687 Nov 07 20:51	17° $\mathbb{M}$ 54'42	1°20'14
max. Earth dist.	5686 Dec 02 18:29	17° $\mathbb{X}$ 59'36	1.41988 AU		5687 Nov 14 13:03	0° $\mathbb{X}$	
desc. node	5686 Dec 03 03:50	18° $\mathbb{X}$ 38'30		max. Earth dist.	5687 Nov 15 01:10	0° $\mathbb{X}$ 53'01	1.39948 AU
evening rise	5686 Dec 08 08:33	27° $\mathbb{X}$ 06'42		evening rise	5687 Nov 19 05:00	7° $\mathbb{X}$ 59'49	
	5686 Dec 10 04:11	0° $\mathbb{Z}$		desc. node	5687 Nov 20 00:52	9° $\mathbb{X}$ 22'42	
	5686 Dec 30 13:28	0° $\mathbb{A}$			5687 Dec 03 04:46	0° $\mathbb{Z}$	
evening max el	5687 Jan 10 12:23	13° $\mathbb{A}$ 17'19	22°34'26	evening max el	5687 Dec 24 02:33	26° $\mathbb{Z}$ 57'49	23°54'28
retrograde	5687 Jan 20 08:35	19° $\mathbb{A}$ 08'16			5687 Dec 27 11:10	0° $\mathbb{A}$	
asc. node	5687 Jan 24 01:53	17° $\mathbb{A}$ 56'24		retrograde	5688 Jan 04 01:38	3° $\mathbb{A}$ 25'14	
evening set	5687 Jan 25 00:52	17° $\mathbb{A}$ 13'38		evening set	5688 Jan 09 06:26	1° $\mathbb{A}$ 15'28	
inferior conj	5687 Jan 30 09:30	10° $\mathbb{A}$ 50'51	1°59'09	asc. node	5688 Jan 10 22:55	29° $\mathbb{Z}$ 36'30	
minimum elong	5687 Jan 30 07:16	10° $\mathbb{A}$ 58'36	1°58'24		5688 Jan 10 14:11	30° $\mathbb{R}$ $\mathbb{Z}$	
min. Earth dist.	5687 Jan 30 04:45	11° $\mathbb{A}$ 07'21	0.68171 AU	min. Earth dist.	5688 Jan 14 01:23	25° $\mathbb{Z}$ 42'36	0.67996 AU
morning rise	5687 Feb 04 13:34	4° $\mathbb{A}$ 41'38		inferior conj	5688 Jan 14 17:13	24° $\mathbb{Z}$ 48'50	1°14'12
direct	5687 Feb 09 03:47	2° $\mathbb{A}$ 47'38		minimum elong	5688 Jan 14 15:35	24° $\mathbb{Z}$ 54'22	1°13'34
				morning rise	5688 Jan 20 00:44	18° $\mathbb{Z}$ 44'41	

direct	5688 Jan 24 01:11	17°  13'14		greatest brilliancy	5689 Jan 27 06:17	22°  57'47	-0.7m
morning max el	5688 Feb 01 02:04	21°  49'18	20°35'34		5689 Jan 31 22:20	0° 	
	5688 Feb 07 23:31	0° 		desc. node	5689 Feb 01 21:10	1°  27'01	
desc. node	5688 Feb 16 00:09	11°  15'07		morning set	5689 Feb 07 23:47	10°  49'58	
	5688 Feb 28 11:08	0° 			5689 Feb 20 06:33	0° 	
morning set	5688 Mar 01 02:29	2°  32'21		max. Earth dist.	5689 Feb 20 14:24	0°  31'03	1.44633 AU
max. Earth dist.	5688 Mar 10 01:33	16°  43'16	1.43275 AU				
				superior conj	5689 Feb 24 15:26	6°  57'11	-2°01'26
superior conj	5688 Mar 16 14:48	27°  28'51	-2°09'31	minimum elong	5689 Feb 24 09:27	6°  33'13	2°01'07
minimum elong	5688 Mar 16 15:15	27°  30'43	2°09'31	evening rise	5689 Mar 10 15:02	29°  53'26	
	5688 Mar 18 02:50	0° 			5689 Mar 10 16:36	0° 	
evening rise	5688 Mar 28 19:53	18°  31'38		asc. node	5689 Mar 25 19:12	24°  31'51	
	5688 Apr 04 09:17	0° 		evening max el	5689 Mar 29 11:32	28°  34'35	18°18'35
asc. node	5688 Apr 07 22:10	5°  51'30			5689 Mar 31 01:23	0° 	
evening max el	5688 Apr 14 22:37	15°  13'11	18°06'35	retrograde	5689 Apr 04 21:33	2°  01'03	
retrograde	5688 Apr 21 10:41	18°  34'56		evening set	5689 Apr 07 21:33	1°  12'29	
evening set	5688 Apr 24 04:12	17°  58'48			5689 Apr 09 16:38	30°  49'00	
inferior conj	5688 Apr 30 13:45	12°  54'01	3°08'27	inferior conj	5689 Apr 13 20:03	25°  48'48	3°28'20
minimum elong	5688 Apr 30 16:11	12°  47'52	3°08'03	minimum elong	5689 Apr 13 20:55	25°  46'22	3°28'16
min. Earth dist.	5688 May 03 14:27	9°  51'08	0.61804 AU	min. Earth dist.	5689 Apr 16 06:30	23°  03'38	0.63846 AU
morning rise	5688 May 07 02:21	6°  53'05		morning rise	5689 Apr 19 19:19	19°  38'34	
direct	5688 May 13 21:13	4°  28'46		direct	5689 Apr 26 14:59	16°  55'04	
desc. node	5688 May 13 23:21	4°  28'48		desc. node	5689 Apr 30 20:24	17°  49'24	
morning max el	5688 May 28 01:17	12°  29'03	27°53'22	morning max el	5689 May 10 09:41	24°  53'55	27°38'06
	5688 Jun 10 22:48	0° 			5689 May 15 00:58	0° 	
	5688 Jun 28 06:13	0° 			5689 Jun 04 09:34	0° 	
morning set	5688 Jun 30 11:29	4°  28'05		morning set	5689 Jun 14 06:46	18°  21'13	
asc. node	5688 Jul 04 21:27	13°  43'48		max. Earth dist.	5689 Jun 19 06:40	28°  33'45	1.32976 AU
max. Earth dist.	5688 Jul 06 04:34	16°  31'39	1.32204 AU		5689 Jun 19 23:03	0° 	
				asc. node	5689 Jun 21 18:28	3°  50'43	
superior conj	5688 Jul 07 22:11	20°  58'15	0°31'04				
minimum elong	5688 Jul 07 20:49	20°  51'44	0°30'46	superior conj	5689 Jun 22 04:39	4°  45'15	0°04'25
	5688 Jul 12 08:27	0° 		minimum elong	5689 Jun 22 04:26	4°  44'05	0°04'20
evening rise	5688 Jul 14 18:32	5°  13'20		behind sun begin	5689 Jun 21 23:15	4°  16'17	
	5688 Jul 27 20:13	0° 		behind sun end	5689 Jun 22 09:38	5°  11'55	
evening max el	5688 Aug 09 02:20	15°  50'32	24°31'19	evening rise	5689 Jun 29 06:11	19°  56'52	
desc. node	5688 Aug 09 22:35	16°  37'53			5689 Jul 04 03:49	0° 	
retrograde	5688 Aug 22 22:53	22°  49'15		evening max el	5689 Jul 21 14:54	26°  10'37	22°53'40
evening set	5688 Aug 28 00:57	21°  51'28			5689 Jul 26 07:46	0° 	
min. Earth dist.	5688 Sep 02 13:29	19°  01'05	0.56738 AU	desc. node	5689 Jul 27 19:35	0° 	
inferior conj	5688 Sep 05 05:45	17°  31'40	-5°20'50	retrograde	5689 Aug 03 22:02	2°  31'41	
minimum elong	5688 Sep 05 05:22	17°  31'16	5°20'49	evening set	5689 Aug 07 11:38	2°  31'54	
morning rise	5688 Sep 13 12:08	13°  31'57			5689 Aug 13 04:23	30°  49'00	
direct	5688 Sep 16 03:32	12°  55'56		min. Earth dist.	5689 Aug 14 23:20	29°  00'27	0.55352 AU
morning max el	5688 Sep 25 15:49	17°  31'46	19°30'11	inferior conj	5689 Aug 16 11:07	28°  09'01	-4°52'56
asc. node	5688 Sep 30 20:44	23°  33'00		minimum elong	5689 Aug 16 04:14	28°  18'56	4°51'49
	5688 Oct 04 23:26	0° 		morning rise	5689 Aug 24 22:58	24°  18'41	
morning set	5688 Oct 13 00:12	15°  12'35		direct	5689 Aug 27 23:38	23°  15'14	
	5688 Oct 20 09:11	0° 		morning max el	5689 Sep 08 01:08	29°  10'26	20°46'51
					5689 Sep 08 23:16	0° 	
superior conj	5688 Oct 20 23:58	1°  12'43	1°35'51	asc. node	5689 Sep 17 17:46	11°  45'31	
minimum elong	5688 Oct 21 02:05	1°  23'10	1°35'43	morning set	5689 Sep 27 07:25	29°  54'11	
max. Earth dist.	5688 Oct 27 05:58	13°  07'35	1.37834 AU		5689 Sep 27 08:33	0° 	
evening rise	5688 Oct 31 00:01	19°  54'02					
desc. node	5688 Nov 05 21:53	0°  00'06		superior conj	5689 Oct 04 18:13	15°  21'09	1°42'33
	5688 Nov 05 21:51	0° 		minimum elong	5689 Oct 04 18:50	15°  24'14	1°42'33
	5688 Nov 26 07:20	0° 		max. Earth dist.	5689 Oct 09 14:21	25°  02'57	1.35877 AU
evening max el	5688 Dec 05 15:25	10°  34'00	25°11'03		5689 Oct 12 04:05	0° 	
retrograde	5688 Dec 17 14:21	17°  36'37		evening rise	5689 Oct 13 14:34	2°  41'53	
evening set	5688 Dec 23 08:31	15°  31'08		desc. node	5689 Oct 23 18:52	20°  31'21	
asc. node	5688 Dec 27 19:59	10°  31'43			5689 Oct 29 21:36	0° 	
min. Earth dist.	5688 Dec 27 19:53	10°  31'43	0.67460 AU	evening max el	5689 Nov 18 04:17	24°  26'19	26°16'45
inferior conj	5688 Dec 28 22:39	8°  47'19	0°22'31		5689 Nov 25 08:16	0° 	
minimum elong	5688 Dec 28 22:05	8°  49'09	0°22'18	retrograde	5689 Nov 30 21:56	1°  37'18	
morning rise	5689 Jan 03 11:54	2°  50'20			5689 Dec 05 22:45	30°  49'00	
direct	5689 Jan 06 24:00	1°  39'35		evening set	5689 Dec 07 05:20	29°  27'05	
morning max el	5689 Jan 14 04:56	5°  41'22	19°30'05	min. Earth dist.	5689 Dec 11 09:51	24°  27'41	0.66570 AU



inferior conj	5689 Dec 12 23:56	22° $\text{♊}$ 43'06	-0°34'58	minimum elong	5690 Nov 26 21:42	6° $\text{♊}$ 23'03	1°35'47
minimum elong	5689 Dec 13 00:53	22° $\text{♊}$ 40'11	0°34'31	asc. node	5690 Dec 01 14:03	1° $\text{♊}$ 49'50	
asc. node	5689 Dec 14 17:01	20° $\text{♊}$ 40'16		morning rise	5690 Dec 03 01:42	0° $\text{♊}$ 56'18	
morning rise	5689 Dec 18 21:02	16° $\text{♊}$ 55'49		direct	5690 Dec 05 18:38	0° $\text{♊}$ 16'55	
direct	5689 Dec 21 22:32	16° $\text{♊}$ 02'36		morning max el	5690 Dec 12 05:57	3° $\text{♊}$ 44'14	18°06'49
morning max el	5689 Dec 28 15:00	19° $\text{♊}$ 41'48	18°40'12		5690 Dec 29 22:52	0° $\text{♊}$	
	5690 Jan 05 15:47	0° $\text{♊}$		morning set	5690 Dec 30 13:02	0° $\text{♊}$ 58'10	
morning set	5690 Jan 18 15:45	20° $\text{♊}$ 10'00		desc. node	5691 Jan 06 15:09	12° $\text{♊}$ 31'24	
desc. node	5690 Jan 19 18:10	21° $\text{♊}$ 54'09					
	5690 Jan 24 21:37	0° $\text{♊}$		superior conj	5691 Jan 14 03:12	24° $\text{♊}$ 30'24	-0°50'48
				minimum elong	5691 Jan 13 21:00	24° $\text{♊}$ 05'51	0°49'57
superior conj	5690 Feb 03 21:37	15° $\text{♋}$ 41'04	-1°33'30	max. Earth dist.	5691 Jan 17 04:08	29° $\text{♊}$ 17'46	1.45238 AU
minimum elong	5690 Feb 03 12:08	15° $\text{♋}$ 03'52	1°32'33		5691 Jan 17 14:54	0° $\text{♋}$	
max. Earth dist.	5690 Feb 03 08:30	14° $\text{♋}$ 49'37	1.45309 AU	evening rise	5691 Jan 30 09:40	19° $\text{♋}$ 54'42	
	5690 Feb 12 23:42	0° $\text{♋}$			5691 Feb 05 22:18	0° $\text{♋}$	
evening rise	5690 Feb 19 11:03	10° $\text{♋}$ 18'33		greatest brilliancy	5691 Feb 12 07:26	9° $\text{♋}$ 43'06	-0.7m
greatest brilliancy	5690 Feb 27 07:18	22° $\text{♋}$ 51'12	-0.9m	evening max el	5691 Feb 24 05:29	25° $\text{♋}$ 37'14	19°35'32
	5690 Mar 03 21:05	0° $\text{♋}$		asc. node	5691 Feb 27 13:17	28° $\text{♋}$ 27'03	
asc. node	5690 Mar 12 16:14	11° $\text{♋}$ 48'07		retrograde	5691 Mar 03 12:40	29° $\text{♋}$ 49'17	
evening max el	5690 Mar 12 22:32	12° $\text{♋}$ 04'17	18°48'38	evening set	5691 Mar 07 02:54	28° $\text{♋}$ 33'40	
retrograde	5690 Mar 19 15:18	15° $\text{♋}$ 48'10		inferior conj	5691 Mar 12 13:22	22° $\text{♋}$ 37'30	3°17'47
evening set	5690 Mar 22 22:00	14° $\text{♋}$ 46'22		minimum elong	5691 Mar 12 11:43	22° $\text{♋}$ 42'57	3°17'34
inferior conj	5690 Mar 28 13:01	9° $\text{♋}$ 05'24	3°30'02	min. Earth dist.	5691 Mar 13 17:14	21° $\text{♋}$ 05'35	0.66816 AU
minimum elong	5690 Mar 28 12:26	9° $\text{♋}$ 07'15	3°30'01	morning rise	5691 Mar 17 20:17	16° $\text{♋}$ 22'08	
min. Earth dist.	5690 Mar 30 07:49	6° $\text{♋}$ 52'59	0.65543 AU	direct	5691 Mar 23 22:46	13° $\text{♋}$ 38'57	
morning rise	5690 Apr 03 02:24	2° $\text{♋}$ 51'01		desc. node	5691 Apr 04 14:27	20° $\text{♋}$ 21'31	
direct	5690 Apr 09 15:47	0° $\text{♋}$ 01'43		morning max el	5691 Apr 05 05:33	20° $\text{♋}$ 59'12	25°38'59
desc. node	5690 Apr 17 17:26	3° $\text{♋}$ 18'09			5691 Apr 13 00:35	0° $\text{♋}$	
morning max el	5690 Apr 22 19:50	7° $\text{♋}$ 48'06	26°50'31		5691 May 03 05:55	0° $\text{♋}$	
	5690 May 10 01:19	0° $\text{♋}$		morning set	5691 May 11 10:00	14° $\text{♋}$ 15'33	
	5690 May 27 18:25	0° $\text{♋}$		max. Earth dist.	5691 May 15 04:13	21° $\text{♋}$ 15'40	1.35907 AU
morning set	5690 May 28 15:38	1° $\text{♋}$ 40'47			5691 May 19 16:07	0° $\text{♋}$	
max. Earth dist.	5690 Jun 01 23:03	10° $\text{♋}$ 07'09	1.34217 AU				
				superior conj	5691 May 20 21:55	2° $\text{♋}$ 28'36	-0°54'54
superior conj	5690 Jun 06 05:26	18° $\text{♋}$ 51'01	-0°24'42	minimum elong	5691 May 21 01:00	2° $\text{♋}$ 44'07	0°54'21
minimum elong	5690 Jun 06 06:46	18° $\text{♋}$ 57'58	0°24'28	asc. node	5691 May 26 12:31	13° $\text{♋}$ 53'57	
asc. node	5690 Jun 08 15:29	23° $\text{♋}$ 55'21		evening rise	5691 May 28 22:28	18° $\text{♋}$ 50'36	
	5690 Jun 11 12:32	0° $\text{♋}$			5691 Jun 03 14:15	0° $\text{♋}$	
evening rise	5690 Jun 13 16:11	4° $\text{♋}$ 31'20		evening max el	5691 Jun 15 16:23	17° $\text{♋}$ 47'37	20°02'18
	5690 Jun 27 19:02	0° $\text{♋}$		retrograde	5691 Jun 26 02:36	22° $\text{♋}$ 54'08	
evening max el	5690 Jul 03 09:38	6° $\text{♋}$ 40'40	21°20'18	evening set	5691 Jun 28 00:23	22° $\text{♋}$ 44'36	
desc. node	5690 Jul 14 16:37	12° $\text{♋}$ 37'41		desc. node	5691 Jul 01 13:39	21° $\text{♋}$ 40'58	
retrograde	5690 Jul 15 11:52	12° $\text{♋}$ 39'13		inferior conj	5691 Jul 07 01:08	18° $\text{♋}$ 44'55	-1°38'33
evening set	5690 Jul 17 20:46	12° $\text{♋}$ 26'14		minimum elong	5691 Jul 06 20:33	18° $\text{♋}$ 51'49	1°36'50
inferior conj	5690 Jul 27 04:51	8° $\text{♋}$ 27'20	-3°32'52	min. Earth dist.	5691 Jul 08 21:15	17° $\text{♋}$ 38'42	0.55155 AU
minimum elong	5690 Jul 26 20:04	8° $\text{♋}$ 39'39	3°30'14	morning rise	5691 Jul 15 15:03	14° $\text{♋}$ 26'16	
min. Earth dist.	5690 Jul 27 09:08	8° $\text{♋}$ 21'20	0.54772 AU	direct	5691 Jul 19 20:39	13° $\text{♋}$ 47'09	
morning rise	5690 Aug 04 20:10	4° $\text{♋}$ 33'19		morning max el	5691 Aug 02 13:41	20° $\text{♋}$ 31'22	24°06'07
direct	5690 Aug 08 08:43	4° $\text{♋}$ 06'33			5691 Aug 10 16:07	0° $\text{♋}$	
morning max el	5690 Aug 20 22:55	10° $\text{♋}$ 03'59	22°21'59	asc. node	5691 Aug 22 11:49	19° $\text{♋}$ 55'04	
	5690 Sep 04 06:54	0° $\text{♋}$		morning set	5691 Aug 27 05:27	29° $\text{♋}$ 36'36	
asc. node	5690 Sep 04 14:48	0° $\text{♋}$			5691 Aug 27 09:51	0° $\text{♋}$	
morning set	5690 Sep 11 17:45	14° $\text{♋}$ 43'53					
				superior conj	5691 Sep 03 04:15	14° $\text{♋}$ 38'56	1°35'13
superior conj	5690 Sep 18 20:34	29° $\text{♋}$ 52'38	1°42'00	minimum elong	5691 Sep 03 02:34	14° $\text{♋}$ 29'46	1°35'05
minimum elong	5690 Sep 18 19:50	29° $\text{♋}$ 48'46	1°41'59	max. Earth dist.	5691 Sep 05 06:36	19° $\text{♋}$ 10'30	1.33031 AU
	5690 Sep 18 21:58	0° $\text{♋}$			5691 Sep 10 11:01	0° $\text{♋}$	
max. Earth dist.	5690 Sep 22 06:14	6° $\text{♋}$ 59'29	1.34245 AU	evening rise	5691 Sep 10 13:53	0° $\text{♋}$ 14'32	
evening rise	5690 Sep 26 20:27	16° $\text{♋}$ 12'02			5691 Sep 27 07:55	0° $\text{♋}$	
	5690 Oct 04 07:35	0° $\text{♋}$		desc. node	5691 Sep 27 12:54	0° $\text{♋}$ 19'00	
desc. node	5690 Oct 10 15:51	10° $\text{♋}$ 35'11		evening max el	5691 Oct 14 04:31	21° $\text{♋}$ 16'49	27°26'36
	5690 Oct 24 09:44	0° $\text{♋}$		retrograde	5691 Oct 27 19:48	28° $\text{♋}$ 34'46	
evening max el	5690 Oct 31 17:01	8° $\text{♋}$ 01'31	27°04'16	evening set	5691 Nov 03 22:12	25° $\text{♋}$ 58'38	
retrograde	5690 Nov 13 23:54	15° $\text{♋}$ 19'32		min. Earth dist.	5691 Nov 07 15:16	22° $\text{♋}$ 43'15	0.63742 AU
evening set	5690 Nov 20 18:47	12° $\text{♋}$ 40'03		inferior conj	5691 Nov 10 05:02	20° $\text{♋}$ 05'30	-2°41'24
min. Earth dist.	5690 Nov 24 16:58	8° $\text{♋}$ 51'54	0.65326 AU	minimum elong	5691 Nov 10 09:48	19° $\text{♋}$ 53'19	2°39'37
inferior conj	5690 Nov 26 18:54	6° $\text{♋}$ 30'59	-1°36'59	morning rise	5691 Nov 16 22:58	14° $\text{♋}$ 46'23	

asc. node	5691 Nov 18 11:05	14° $\mathbb{M}$ 21'24		evening max el	5692 Sep 25 12:44	3° $\mathbb{M}$ 59'26	27°18'09
direct	5691 Nov 19 09:41	14° $\mathbb{M}$ 17'00		retrograde	5692 Oct 09 08:46	11° $\mathbb{M}$ 12'56	
morning max el	5691 Nov 25 22:56	17° $\mathbb{M}$ 41'43	17°50'37	evening set	5692 Oct 16 12:01	8° $\mathbb{M}$ 51'28	
	5691 Dec 04 20:31	0° $\mathbb{A}$		min. Earth dist.	5692 Oct 20 03:19	6° $\mathbb{M}$ 02'09	0.61866 AU
morning set	5691 Dec 12 13:22	13° $\mathbb{A}$ 05'05		inferior conj	5692 Oct 23 03:18	3° $\mathbb{M}$ 18'50	-3°44'32
	5691 Dec 22 12:49	0° $\mathbb{B}$		minimum elong	5692 Oct 23 09:33	3° $\mathbb{M}$ 04'38	3°42'39
desc. node	5691 Dec 24 12:10	3° $\mathbb{B}$ 15'13			5692 Oct 27 03:12	30° $\mathbb{R}$ $\mathbb{A}$	
				morning rise	5692 Oct 30 08:59	28° $\mathbb{A}$ 18'26	
superior conj	5691 Dec 25 03:06	4° $\mathbb{B}$ 16'22	-0°04'25	direct	5692 Nov 01 16:26	27° $\mathbb{A}$ 55'27	
minimum elong	5691 Dec 25 02:36	4° $\mathbb{B}$ 14'22	0°04'19	asc. node	5692 Nov 04 08:07	28° $\mathbb{A}$ 26'51	
behind sun begin	5691 Dec 24 17:08	3° $\mathbb{B}$ 35'35			5692 Nov 06 23:40	0° $\mathbb{M}$	
behind sun end	5691 Dec 25 12:04	4° $\mathbb{B}$ 53'04		morning max el	5692 Nov 08 14:46	1° $\mathbb{M}$ 25'57	17°52'33
max. Earth dist.	5691 Dec 30 22:10	13° $\mathbb{B}$ 37'21	1.44443 AU	morning set	5692 Nov 24 10:20	26° $\mathbb{M}$ 11'00	
evening rise	5692 Jan 09 20:30	29° $\mathbb{B}$ 08'29			5692 Nov 26 13:02	0° $\mathbb{A}$	
	5692 Jan 10 09:55	0° $\mathbb{A}$					
	5692 Jan 30 18:19	0° $\mathbb{H}$		superior conj	5692 Dec 05 05:07	15° $\mathbb{A}$ 18'29	0°36'24
evening max el	5692 Feb 07 07:12	9° $\mathbb{H}$ 11'41	20°37'01	minimum elong	5692 Dec 05 08:11	15° $\mathbb{A}$ 31'39	0°36'00
asc. node	5692 Feb 14 10:20	13° $\mathbb{H}$ 54'04		desc. node	5692 Dec 10 09:13	24° $\mathbb{A}$ 02'08	
retrograde	5692 Feb 15 11:01	13° $\mathbb{H}$ 59'43		max. Earth dist.	5692 Dec 12 12:41	27° $\mathbb{A}$ 33'51	1.43022 AU
evening set	5692 Feb 19 10:08	12° $\mathbb{H}$ 29'31			5692 Dec 14 00:38	0° $\mathbb{B}$	
inferior conj	5692 Feb 24 18:26	6° $\mathbb{H}$ 20'43	2°54'23	evening rise	5692 Dec 19 11:09	8° $\mathbb{B}$ 39'09	
minimum elong	5692 Feb 24 16:12	6° $\mathbb{H}$ 28'25	2°53'53		5693 Jan 02 14:55	0° $\mathbb{A}$	
min. Earth dist.	5692 Feb 25 08:44	5° $\mathbb{H}$ 31'43	0.67664 AU	evening max el	5693 Jan 20 03:37	22° $\mathbb{A}$ 48'18	21°49'37
morning rise	5692 Feb 29 22:02	0° $\mathbb{H}$ 06'26		retrograde	5693 Jan 29 08:25	28° $\mathbb{A}$ 16'01	
	5692 Mar 01 00:55	30° $\mathbb{R}$ $\mathbb{A}$		asc. node	5693 Jan 31 07:23	27° $\mathbb{A}$ 55'45	
direct	5692 Mar 06 11:06	27° $\mathbb{A}$ 38'24		evening set	5693 Feb 02 17:57	26° $\mathbb{A}$ 30'34	
	5692 Mar 12 15:22	0° $\mathbb{H}$		inferior conj	5693 Feb 08 02:02	20° $\mathbb{A}$ 12'05	2°21'42
morning max el	5692 Mar 17 14:14	4° $\mathbb{H}$ 17'44	24°13'22	minimum elong	5693 Feb 07 23:39	20° $\mathbb{A}$ 20'19	2°21'00
desc. node	5692 Mar 21 11:28	8° $\mathbb{H}$ 32'49		min. Earth dist.	5693 Feb 08 04:00	20° $\mathbb{A}$ 05'13	0.68100 AU
	5692 Apr 06 07:44	0° $\mathbb{Y}$		morning rise	5693 Feb 13 05:10	14° $\mathbb{A}$ 00'35	
morning set	5692 Apr 22 08:23	25° $\mathbb{Y}$ 49'49		direct	5693 Feb 18 03:50	11° $\mathbb{A}$ 53'13	
	5692 Apr 24 17:26	0° $\mathbb{B}$		morning max el	5693 Feb 28 00:08	17° $\mathbb{A}$ 42'31	22°43'59
max. Earth dist.	5692 Apr 26 00:51	2° $\mathbb{B}$ 20'18	1.37960 AU	desc. node	5693 Mar 08 08:30	27° $\mathbb{A}$ 33'07	
					5693 Mar 10 04:49	0° $\mathbb{H}$	
superior conj	5692 May 03 02:40	15° $\mathbb{B}$ 28'33	-1°24'09		5693 Mar 30 10:10	0° $\mathbb{Y}$	
minimum elong	5692 May 03 07:18	15° $\mathbb{B}$ 50'46	1°23'29	morning set	5693 Apr 03 04:55	6° $\mathbb{Y}$ 08'37	
	5692 May 10 12:44	0° $\mathbb{H}$		max. Earth dist.	5693 Apr 07 20:40	13° $\mathbb{Y}$ 57'22	1.40173 AU
evening rise	5692 May 11 22:24	2° $\mathbb{H}$ 46'28					
asc. node	5692 May 12 09:34	3° $\mathbb{H}$ 41'34		superior conj	5693 Apr 15 15:31	27° $\mathbb{Y}$ 41'01	-1°49'19
evening max el	5692 May 28 11:29	29° $\mathbb{H}$ 37'27	19°03'59	minimum elong	5693 Apr 15 20:38	28° $\mathbb{Y}$ 04'15	1°48'50
	5692 May 28 20:55	0° $\mathbb{B}$			5693 Apr 16 21:58	0° $\mathbb{B}$	
retrograde	5692 Jun 06 05:49	3° $\mathbb{B}$ 55'07		evening rise	5693 Apr 25 12:53	16° $\mathbb{B}$ 11'16	
evening set	5692 Jun 08 05:51	3° $\mathbb{B}$ 42'36		asc. node	5693 Apr 29 06:38	23° $\mathbb{B}$ 13'31	
	5692 Jun 15 19:01	30° $\mathbb{R}$ $\mathbb{H}$			5693 May 03 01:07	0° $\mathbb{H}$	
inferior conj	5692 Jun 16 12:50	29° $\mathbb{H}$ 29'30	0°16'11	evening max el	5693 May 11 16:04	12° $\mathbb{H}$ 04'46	18°26'02
minimum elong	5692 Jun 16 13:29	29° $\mathbb{H}$ 28'22	0°15'54	retrograde	5693 May 19 03:58	15° $\mathbb{H}$ 47'53	
transit middle	5692 Jun 16 13:29	29° $\mathbb{H}$ 28'22	0°15'54	evening set	5693 May 21 10:48	15° $\mathbb{H}$ 28'09	
transit begin	5692 Jun 16 12:59	29° $\mathbb{H}$ 29'14		inferior conj	5693 May 28 21:49	10° $\mathbb{H}$ 55'10	1°46'43
transit end	5692 Jun 16 13:59	29° $\mathbb{H}$ 27'30		minimum elong	5693 May 29 01:02	10° $\mathbb{H}$ 48'40	1°45'41
desc. node	5692 Jun 17 10:42	28° $\mathbb{H}$ 51'39		min. Earth dist.	5693 Jun 01 07:53	8° $\mathbb{H}$ 10'55	0.58354 AU
min. Earth dist.	5692 Jun 19 12:26	27° $\mathbb{H}$ 26'52	0.56438 AU	desc. node	5693 Jun 04 07:45	6° $\mathbb{H}$ 07'01	
morning rise	5692 Jun 24 17:52	24° $\mathbb{H}$ 35'11		morning rise	5693 Jun 05 12:05	5° $\mathbb{H}$ 27'31	
direct	5692 Jun 29 21:35	23° $\mathbb{H}$ 32'45		direct	5693 Jun 11 12:37	3° $\mathbb{H}$ 53'07	
	5692 Jul 13 05:03	0° $\mathbb{B}$		morning max el	5693 Jun 25 21:51	11° $\mathbb{H}$ 35'27	27°01'37
morning max el	5692 Jul 14 03:35	0° $\mathbb{B}$ 52'40	25°44'37		5693 Jul 10 06:04	0° $\mathbb{B}$	
	5692 Aug 03 11:47	0° $\mathbb{Q}$		morning set	5693 Jul 26 02:13	29° $\mathbb{B}$ 08'36	
asc. node	5692 Aug 08 08:50	9° $\mathbb{Q}$ 34'22		asc. node	5693 Jul 26 05:53	29° $\mathbb{B}$ 27'57	
morning set	5692 Aug 10 16:48	14° $\mathbb{Q}$ 26'26			5693 Jul 26 11:57	0° $\mathbb{Q}$	
superior conj	5692 Aug 17 14:57	29° $\mathbb{Q}$ 31'48	1°23'03	superior conj	5693 Aug 02 02:47	14° $\mathbb{Q}$ 25'07	1°06'07
minimum elong	5692 Aug 17 12:45	29° $\mathbb{Q}$ 19'39	1°22'46	minimum elong	5693 Aug 02 00:31	14° $\mathbb{Q}$ 12'37	1°05'43
	5692 Aug 17 20:05	0° $\mathbb{M}$		max. Earth dist.	5693 Aug 02 00:33	14° $\mathbb{Q}$ 12'49	1.31904 AU
max. Earth dist.	5692 Aug 18 13:45	1° $\mathbb{M}$ 37'07	1.32253 AU	evening rise	5693 Aug 08 22:38	29° $\mathbb{Q}$ 18'12	
evening rise	5692 Aug 24 15:30	14° $\mathbb{M}$ 39'14			5693 Aug 09 06:33	0° $\mathbb{M}$	
	5692 Sep 01 11:38	0° $\mathbb{A}$			5693 Aug 25 18:13	0° $\mathbb{A}$	
desc. node	5692 Sep 13 09:57	19° $\mathbb{A}$ 26'47		desc. node	5693 Aug 31 06:59	7° $\mathbb{A}$ 44'05	
	5692 Sep 21 16:04	0° $\mathbb{M}$		evening max el	5693 Sep 07 14:57	15° $\mathbb{A}$ 57'33	26°36'02

































































































































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evening set	5693 Sep 28 07:42	21°♄10'51		evening set	5694 Sep 09 04:32	2°♄50'22	
min. Earth dist.	5693 Oct 02 04:43	18°♄35'20	0.59816 AU	min. Earth dist.	5694 Sep 13 21:03	0°♄11'05	0.57786 AU
inferior conj	5693 Oct 05 10:14	16°♄01'47	-4°39'39		5694 Sep 14 03:42	30°♄	
minimum elong	5693 Oct 05 16:23	15°♄49'33	4°38'23	inferior conj	5694 Sep 16 22:31	28°♄04'56	-5°15'20
morning rise	5693 Oct 13 03:09	11°♄23'09		minimum elong	5694 Sep 17 01:31	27°♄59'44	5°15'06
direct	5693 Oct 15 10:50	11°♄03'30		morning rise	5694 Sep 25 00:47	23°♄49'37	
asc. node	5693 Oct 22 05:09	14°♄00'04		direct	5694 Sep 27 12:31	23°♄30'53	
morning max el	5693 Oct 23 02:05	14°♄48'02	18°13'51	morning max el	5694 Oct 06 05:34	27°♄39'14	18°56'05
	5693 Nov 02 13:03	0°♄			5694 Oct 08 10:30	0°♄	
morning set	5693 Nov 07 21:53	9°♄57'53		asc. node	5694 Oct 09 02:12	0°♄47'22	
				morning set	5694 Oct 22 19:33	24°♄13'23	
superior conj	5693 Nov 17 07:35	27°♄31'06	1°07'27		5694 Oct 25 17:50	0°♄	
minimum elong	5693 Nov 17 11:25	27°♄48'28	1°06'59				
	5693 Nov 18 16:37	0°♄		superior conj	5694 Oct 31 05:28	10°♄40'35	1°28'12
max. Earth dist.	5693 Nov 24 22:29	10°♄53'57	1.41145 AU	minimum elong	5694 Oct 31 08:25	10°♄54'41	1°27'56
desc. node	5693 Nov 27 06:14	14°♄48'13		max. Earth dist.	5694 Nov 07 04:19	23°♄31'45	1.39041 AU
evening rise	5693 Nov 29 18:48	18°♄57'32			5694 Nov 10 21:01	0°♄	
	5693 Dec 06 18:01	0°♄		evening rise	5694 Nov 11 01:02	0°♄17'12	
	5693 Dec 28 01:54	0°♄		desc. node	5694 Nov 14 03:15	5°♄30'14	
evening max el	5694 Jan 02 19:38	6°♄27'12	23°08'34		5694 Nov 30 02:30	0°♄	
retrograde	5694 Jan 13 03:14	12°♄33'51		evening max el	5694 Dec 16 09:00	20°♄09'28	24°27'51
evening set	5694 Jan 18 00:46	10°♄32'44		retrograde	5694 Dec 27 18:30	26°♄49'26	
asc. node	5694 Jan 18 04:25	10°♄24'58		evening set	5695 Jan 02 05:04	24°♄33'19	
inferior conj	5694 Jan 23 10:11	4°♄08'06	1°40'57	asc. node	5695 Jan 05 01:26	21°♄33'54	
minimum elong	5694 Jan 23 08:09	4°♄15'06	1°40'14	min. Earth dist.	5695 Jan 06 20:35	19°♄15'12	0.67814 AU
min. Earth dist.	5694 Jan 23 00:42	4°♄40'46	0.68143 AU	inferior conj	5695 Jan 07 17:07	18°♄06'30	0°53'02
	5694 Jan 26 14:53	30°♄		minimum elong	5695 Jan 07 15:53	18°♄10'38	0°52'33
morning rise	5694 Jan 28 15:26	28°♄00'56		morning rise	5695 Jan 13 02:50	12°♄05'26	
direct	5694 Feb 01 23:46	26°♄16'29		direct	5695 Jan 16 21:51	10°♄43'12	
	5694 Feb 09 06:49	0°♄		morning max el	5695 Jan 24 13:19	15°♄02'56	20°05'59
morning max el	5694 Feb 10 14:55	1°♄16'33	21°19'30		5695 Feb 05 05:41	0°♄	
desc. node	5694 Feb 23 05:31	17°♄08'14		desc. node	5695 Feb 10 02:32	7°♄08'48	
	5694 Mar 04 01:02	0°♄		morning set	5695 Feb 20 18:44	23°♄21'43	
morning set	5694 Mar 13 21:07	15°♄08'09			5695 Feb 25 01:18	0°♄	
max. Earth dist.	5694 Mar 20 22:20	26°♄29'10	1.42255 AU	max. Earth dist.	5695 Mar 03 07:32	9°♄53'27	1.43929 AU
	5694 Mar 23 01:20	0°♄					
superior conj	5694 Mar 28 07:26	8°♄53'48	-2°05'58	superior conj	5695 Mar 08 22:25	18°♄59'03	-2°08'29
minimum elong	5694 Mar 28 10:35	9°♄07'21	2°05'51	minimum elong	5695 Mar 08 20:14	18°♄50'05	2°08'26
evening rise	5694 Apr 08 14:00	28°♄55'21			5695 Mar 15 13:19	0°♄	
	5694 Apr 09 04:16	0°♄		evening rise	5695 Mar 21 21:21	10°♄49'47	
asc. node	5694 Apr 16 03:40	12°♄23'33			5695 Apr 02 07:36	0°♄	
evening max el	5694 Apr 25 02:24	24°♄59'37	18°08'03	asc. node	5695 Apr 03 00:41	1°♄04'42	
retrograde	5694 May 01 19:56	28°♄24'52		evening max el	5695 Apr 08 15:11	8°♄13'25	18°09'20
evening set	5694 May 04 09:44	27°♄55'11		retrograde	5695 Apr 15 01:19	11°♄35'52	
inferior conj	5694 May 11 03:24	23°♄01'25	2°46'36	evening set	5695 Apr 17 21:32	10°♄54'36	
minimum elong	5694 May 11 06:31	22°♄54'04	2°45'54	inferior conj	5695 Apr 24 01:54	5°♄41'20	3°19'25
min. Earth dist.	5694 May 14 09:58	19°♄58'28	0.60546 AU	minimum elong	5695 Apr 24 03:41	5°♄36'35	3°19'12
morning rise	5694 May 18 01:00	17°♄09'38		min. Earth dist.	5695 Apr 26 20:49	2°♄43'43	0.62705 AU
desc. node	5694 May 22 04:46	15°♄19'27			5695 Apr 29 19:41	30°♄	
direct	5694 May 24 15:31	15°♄02'06		morning rise	5695 Apr 30 08:24	29°♄35'20	
morning max el	5694 Jun 07 22:45	22°♄57'39	27°45'26	direct	5695 May 07 04:23	27°♄01'32	
	5694 Jun 14 04:53	0°♄		desc. node	5695 May 09 01:48	27°♄12'22	
	5694 Jul 03 09:46	0°♄			5695 May 15 06:57	0°♄	
morning set	5694 Jul 10 07:55	13°♄37'42		morning max el	5695 May 21 05:22	5°♄02'38	27°51'18
asc. node	5694 Jul 13 02:56	19°♄30'38			5695 Jun 08 23:38	0°♄	
max. Earth dist.	5694 Jul 16 11:14	26°♄46'18	1.31972 AU	morning set	5695 Jun 24 07:45	27°♄46'36	
					5695 Jun 25 09:59	0°♄	
superior conj	5694 Jul 17 13:58	29°♄13'12	0°44'57	max. Earth dist.	5695 Jun 29 17:41	9°♄03'44	1.32476 AU
minimum elong	5694 Jul 17 12:08	29°♄03'06	0°44'34	asc. node	5695 Jun 29 23:56	9°♄37'18	
	5694 Jul 17 22:27	0°♄					
evening rise	5694 Jul 24 09:04	14°♄04'24		superior conj	5695 Jul 01 22:42	13°♄49'44	0°20'07
	5694 Aug 01 07:49	0°♄		minimum elong	5695 Jul 01 21:45	13°♄44'38	0°19'53
desc. node	5694 Aug 18 04:00	24°♄50'51		evening rise	5695 Jul 08 20:48	28°♄50'44	
evening max el	5694 Aug 20 09:22	27°♄06'15	25°23'11		5695 Jul 09 09:50	0°♄	
	5694 Aug 23 18:25	0°♄			5695 Jul 26 08:43	0°♄	
				evening max el	5695 Aug 01 21:58	7°♄35'37	23°50'07

desc. node	5695 Aug 05 01:01	10° $\mathbb{M}$ 18'34		asc. node	5696 Jun 15 20:58	29° $\mathbb{I}$ 44'14	
retrograde	5695 Aug 15 14:37	14° $\mathbb{M}$ 28'27			5696 Jun 15 23:56	0° $\mathfrak{C}$	
evening set	5695 Aug 20 01:21	13° $\mathbb{M}$ 44'51		evening rise	5696 Jun 22 08:01	13° $\mathfrak{C}$ 31'33	
min. Earth dist.	5695 Aug 26 08:10	10° $\mathbb{M}$ 43'19	0.56064 AU		5696 Jun 30 16:25	0° $\mathcal{Q}$	
inferior conj	5695 Aug 28 14:27	9° $\mathbb{M}$ 21'04	-5°15'21	evening max el	5696 Jul 13 12:11	17° $\mathcal{Q}$ 56'25	22°12'39
minimum elong	5695 Aug 28 11:10	9° $\mathbb{M}$ 26'04	5°15'07	desc. node	5696 Jul 21 22:02	23° $\mathcal{Q}$ 33'43	
morning rise	5695 Sep 05 23:28	5° $\mathbb{M}$ 25'00		retrograde	5696 Jul 26 09:24	24° $\mathcal{Q}$ 20'18	
direct	5695 Sep 08 18:24	5° $\mathbb{M}$ 05'19		evening set	5696 Jul 29 08:37	24° $\mathcal{Q}$ 00'48	
morning max el	5695 Sep 18 22:08	9° $\mathbb{M}$ 49'14	20°00'17	min. Earth dist.	5696 Aug 06 18:06	20° $\mathcal{Q}$ 23'08	0.54993 AU
asc. node	5695 Sep 25 23:13	18° $\mathbb{M}$ 32'36		inferior conj	5696 Aug 07 13:35	19° $\mathcal{Q}$ 55'41	-4°24'59
	5695 Oct 02 13:35	0° $\mathfrak{L}$		minimum elong	5696 Aug 07 05:03	20° $\mathcal{Q}$ 07'44	4°23'03
morning set	5695 Oct 06 23:59	8° $\mathfrak{L}$ 47'09		morning rise	5696 Aug 16 03:12	16° $\mathcal{Q}$ 05'57	
				direct	5696 Aug 19 08:12	15° $\mathcal{Q}$ 42'54	
superior conj	5695 Oct 14 17:32	24° $\mathfrak{L}$ 31'05	1°39'39	morning max el	5696 Aug 31 02:23	21° $\mathcal{Q}$ 12'45	21°25'21
minimum elong	5695 Oct 14 19:01	24° $\mathfrak{L}$ 38'28	1°39'35		5696 Sep 07 10:34	0° $\mathbb{M}$	
	5695 Oct 17 12:06	0° $\mathbb{M}$		asc. node	5696 Sep 11 20:16	7° $\mathbb{M}$ 02'38	
max. Earth dist.	5695 Oct 20 09:45	5° $\mathbb{M}$ 34'26	1.36965 AU	morning set	5696 Sep 20 08:46	23° $\mathbb{M}$ 32'41	
evening rise	5695 Oct 24 04:48	12° $\mathbb{M}$ 35'15			5696 Sep 23 10:36	0° $\mathfrak{L}$	
desc. node	5695 Nov 01 00:15	26° $\mathbb{M}$ 03'26					
	5695 Nov 03 10:38	0° $\mathfrak{X}$		superior conj	5696 Sep 27 15:39	8° $\mathfrak{L}$ 50'34	1°43'07
	5695 Nov 25 04:36	0° $\mathfrak{Z}$		minimum elong	5696 Sep 27 15:39	8° $\mathfrak{L}$ 50'34	1°43'08
evening max el	5695 Nov 28 21:31	3° $\mathfrak{Z}$ 53'19	25°40'42	max. Earth dist.	5696 Oct 01 20:36	17° $\mathfrak{L}$ 26'03	1.35139 AU
retrograde	5695 Dec 11 05:13	10° $\mathfrak{Z}$ 56'57		evening rise	5696 Oct 06 02:27	25° $\mathfrak{L}$ 42'39	
evening set	5695 Dec 17 05:08	8° $\mathfrak{Z}$ 28'07			5696 Oct 08 09:29	0° $\mathbb{M}$	
min. Earth dist.	5695 Dec 21 13:24	3° $\mathfrak{Z}$ 44'31	0.67122 AU	desc. node	5696 Oct 17 21:16	16° $\mathbb{M}$ 22'53	
inferior conj	5695 Dec 22 21:01	2° $\mathfrak{Z}$ 03'56	-0°01'14		5696 Oct 26 21:28	0° $\mathfrak{X}$	
minimum elong	5695 Dec 22 21:02	2° $\mathfrak{Z}$ 03'51	0°01'12	evening max el	5696 Nov 10 10:21	17° $\mathfrak{X}$ 34'36	26°39'38
transit middle	5695 Dec 22 21:02	2° $\mathfrak{Z}$ 03'51	0°01'12	retrograde	5696 Nov 23 10:40	24° $\mathfrak{X}$ 50'15	
transit begin	5695 Dec 22 18:14	2° $\mathfrak{Z}$ 12'48		evening set	5696 Nov 29 23:06	22° $\mathfrak{X}$ 13'05	
transit end	5695 Dec 22 23:51	1° $\mathfrak{Z}$ 54'54		min. Earth dist.	5696 Dec 04 00:51	18° $\mathfrak{X}$ 04'30	0.66078 AU
asc. node	5695 Dec 22 22:28	1° $\mathfrak{Z}$ 59'18		inferior conj	5696 Dec 05 19:54	15° $\mathfrak{X}$ 56'47	-1°00'50
	5695 Dec 24 12:51	30° $\mathfrak{R}$ $\mathfrak{X}$		minimum elong	5696 Dec 05 21:36	15° $\mathfrak{X}$ 51'44	1°00'05
morning rise	5695 Dec 28 13:22	26° $\mathfrak{X}$ 10'54		asc. node	5696 Dec 08 19:31	12° $\mathfrak{X}$ 37'12	
direct	5695 Dec 31 20:37	25° $\mathfrak{X}$ 08'15		morning rise	5696 Dec 11 20:54	10° $\mathfrak{X}$ 14'20	
morning max el	5696 Jan 07 19:31	28° $\mathfrak{X}$ 59'18	19°06'54	direct	5696 Dec 14 18:24	9° $\mathfrak{X}$ 27'34	
	5696 Jan 08 18:54	0° $\mathfrak{Z}$		morning max el	5696 Dec 21 07:56	13° $\mathfrak{X}$ 00'54	18°23'52
greatest brilliancy	5696 Jan 21 17:32	17° $\mathfrak{Z}$ 50'14	-0.8m		5697 Jan 02 14:20	0° $\mathfrak{Z}$	
desc. node	5696 Jan 27 23:33	27° $\mathfrak{Z}$ 27'33		morning set	5697 Jan 10 01:27	11° $\mathfrak{Z}$ 55'00	
	5696 Jan 29 14:51	0° $\approx$		desc. node	5697 Jan 13 20:32	17° $\mathfrak{Z}$ 59'07	
morning set	5696 Jan 30 21:25	1° $\approx$ 58'44			5697 Jan 21 10:27	0° $\approx$	
max. Earth dist.	5696 Feb 13 22:32	23° $\approx$ 54'56	1.45000 AU				
				superior conj	5697 Jan 25 16:57	6° $\approx$ 42'44	-1°16'35
superior conj	5696 Feb 16 13:38	28° $\approx$ 03'48	-1°51'55	minimum elong	5697 Jan 25 08:08	6° $\approx$ 08'09	1°15'34
minimum elong	5696 Feb 16 05:24	27° $\approx$ 31'15	1°51'18	max. Earth dist.	5697 Jan 26 17:06	8° $\approx$ 17'26	1.45363 AU
	5696 Feb 17 18:58	0° $\mathfrak{H}$			5697 Feb 09 13:24	0° $\mathfrak{H}$	
evening rise	5696 Mar 02 06:50	21° $\mathfrak{H}$ 47'22		evening rise	5697 Feb 10 17:01	1° $\mathfrak{H}$ 48'41	
	5696 Mar 07 06:43	0° $\mathfrak{Y}$		greatest brilliancy	5697 Feb 20 23:16	17° $\mathfrak{H}$ 54'57	-0.8m
asc. node	5696 Mar 19 21:43	19° $\mathfrak{Y}$ 07'59			5697 Mar 01 04:55	0° $\mathfrak{Y}$	
evening max el	5696 Mar 22 03:32	21° $\mathfrak{Y}$ 39'08	18°29'15	evening max el	5697 Mar 05 13:04	5° $\mathfrak{Y}$ 10'39	19°06'46
retrograde	5696 Mar 28 15:37	25° $\mathfrak{Y}$ 11'54		asc. node	5697 Mar 06 18:46	6° $\mathfrak{Y}$ 21'31	
evening set	5696 Mar 31 18:17	24° $\mathfrak{Y}$ 17'59		retrograde	5697 Mar 12 11:09	9° $\mathfrak{Y}$ 05'14	
inferior conj	5696 Apr 06 13:13	18° $\mathfrak{Y}$ 46'52	3°31'00	evening set	5697 Mar 15 20:54	7° $\mathfrak{Y}$ 57'45	
minimum elong	5696 Apr 06 13:25	18° $\mathfrak{Y}$ 46'15	3°30'59	inferior conj	5697 Mar 21 09:41	2° $\mathfrak{Y}$ 10'21	3°26'22
min. Earth dist.	5696 Apr 08 17:06	16° $\mathfrak{Y}$ 13'54	0.64608 AU	minimum elong	5697 Mar 21 08:35	2° $\mathfrak{Y}$ 13'52	3°26'16
morning rise	5696 Apr 12 07:49	12° $\mathfrak{Y}$ 34'06		min. Earth dist.	5697 Mar 22 22:05	0° $\mathfrak{Y}$ 14'17	0.66134 AU
direct	5696 Apr 19 01:28	9° $\mathfrak{Y}$ 46'16			5697 Mar 23 02:39	30° $\mathfrak{R}$ $\mathfrak{H}$	
desc. node	5696 Apr 24 22:49	11° $\mathfrak{Y}$ 31'49		morning rise	5697 Mar 26 19:53	25° $\mathfrak{H}$ 55'20	
morning max el	5696 May 02 14:59	17° $\mathfrak{Y}$ 42'26	27°21'24	direct	5697 Apr 02 05:13	23° $\mathfrak{H}$ 06'57	
	5696 May 12 21:43	0° $\mathfrak{B}$		desc. node	5697 Apr 11 19:50	27° $\mathfrak{H}$ 44'07	
	5696 May 31 20:43	0° $\mathbb{I}$			5697 Apr 14 07:08	0° $\mathfrak{Y}$	
morning set	5696 Jun 06 23:06	11° $\mathbb{I}$ 27'37		morning max el	5697 Apr 15 00:54	0° $\mathfrak{Y}$ 44'13	26°22'28
max. Earth dist.	5696 Jun 11 15:55	20° $\mathbb{I}$ 54'11	1.33441 AU		5697 May 06 21:47	0° $\mathfrak{B}$	
				morning set	5697 May 21 02:22	24° $\mathfrak{B}$ 29'42	
superior conj	5696 Jun 15 03:04	28° $\mathbb{I}$ 09'11	-0°07'43		5697 May 23 23:41	0° $\mathbb{I}$	
minimum elong	5696 Jun 15 03:28	28° $\mathbb{I}$ 11'17	0°07'40	max. Earth dist.	5697 May 25 03:12	2° $\mathbb{I}$ 14'02	1.34881 AU
behind sun begin	5696 Jun 14 22:36	27° $\mathbb{I}$ 45'31					
behind sun end	5696 Jun 15 08:20	28° $\mathbb{I}$ 37'05		superior conj	5697 May 30 00:42	12° $\mathbb{I}$ 04'05	-0°37'28

minimum elong	5697 May 30 02:46	12°II14'42	0°37'04	superior conj	5698 May 13 12:39	25°826'36	-1°07'34
asc. node	5697 Jun 02 18:00	19°II46'50		minimum elong	5698 May 13 16:28	25°845'22	1°06'56
evening rise	5697 Jun 06 16:42	28°II00'11			5698 May 15 19:46	0°II	
	5697 Jun 07 15:58	0°☾		asc. node	5698 May 20 15:03	9°II41'06	
evening max el	5697 Jun 25 11:49	28°☾40'42	20°44'55	evening rise	5698 May 21 20:36	12°II10'08	
	5697 Jun 26 22:15	0°♂			5698 May 31 09:16	0°☾	
retrograde	5697 Jul 06 21:34	4°♂17'00		evening max el	5698 Jun 08 00:02	10°☾05'32	19°34'57
evening set	5697 Jul 08 23:41	4°♂06'31		retrograde	5698 Jun 17 16:15	14°☾49'49	
desc. node	5697 Jul 08 19:04	4°♂08'20		evening set	5698 Jun 19 14:10	14°☾39'30	
inferior conj	5697 Jul 18 06:34	0°♂09'37	-2°46'41	desc. node	5698 Jun 25 16:07	12°☾12'46	
minimum elong	5697 Jul 17 23:02	0°♂20'21	2°44'08	inferior conj	5698 Jun 28 08:04	10°☾35'02	-0°48'01
	5697 Jul 18 13:18	30°☿☾		minimum elong	5698 Jun 28 05:54	10°☾38'29	0°47'13
min. Earth dist.	5697 Jul 19 04:51	29°☾37'50	0.54823 AU	min. Earth dist.	5698 Jun 30 17:45	9°☾04'04	0.55609 AU
morning rise	5697 Jul 26 22:03	26°☾07'12		morning rise	5698 Jul 06 19:12	6°☾02'13	
direct	5697 Jul 30 17:25	25°☾36'04		direct	5698 Jul 11 10:04	5°☾14'35	
	5697 Aug 10 15:17	0°♂		morning max el	5698 Jul 25 09:46	12°☾14'41	24°49'42
morning max el	5697 Aug 12 20:20	1°♂54'26	23°05'47		5698 Aug 08 01:18	0°♂	
asc. node	5697 Aug 29 17:18	26°♂06'18		asc. node	5698 Aug 16 14:19	15°♂34'43	
	5697 Aug 31 17:33	0°♐		morning set	5698 Aug 20 07:40	23°♂16'17	
morning set	5697 Sep 04 19:54	8°♐24'14			5698 Aug 23 10:37	0°♐	
superior conj	5697 Sep 11 20:36	23°♐29'15	1°39'49	superior conj	5698 Aug 27 05:48	8°♐18'47	1°30'40
minimum elong	5697 Sep 11 19:25	23°♐22'53	1°39'46	minimum elong	5698 Aug 27 03:50	8°♐08'02	1°30'28
max. Earth dist.	5697 Sep 14 16:17	29°♐28'23	1.33683 AU	max. Earth dist.	5698 Aug 28 20:08	11°♐47'37	1.32651 AU
	5697 Sep 14 22:19	0°♊		evening rise	5698 Sep 03 11:00	23°♐40'58	
evening rise	5697 Sep 19 13:45	9°♊28'10			5698 Sep 06 14:42	0°♊	
	5697 Sep 30 19:45	0°♌		desc. node	5698 Sep 21 15:21	25°♊52'16	
desc. node	5697 Oct 04 18:18	6°♌22'14			5698 Sep 24 12:00	0°♌	
	5697 Oct 22 20:51	0°♍		evening max el	5698 Oct 06 09:37	14°♌07'22	27°27'02
evening max el	5697 Oct 23 23:05	1°♍04'03	27°17'17	retrograde	5698 Oct 20 02:53	21°♌22'52	
retrograde	5697 Nov 06 10:06	8°♍22'08		evening set	5698 Oct 27 06:48	18°♌51'34	
evening set	5697 Nov 13 08:41	5°♍43'16		min. Earth dist.	5698 Oct 30 22:35	15°♌48'32	0.62980 AU
min. Earth dist.	5697 Nov 17 04:37	2°♍09'15	0.64691 AU	inferior conj	5698 Nov 02 17:02	13°♌07'01	-3°08'38
inferior conj	5697 Nov 19 11:31	29°♌40'24	-2°04'10	minimum elong	5698 Nov 02 22:32	12°♌53'37	3°06'43
minimum elong	5697 Nov 19 15:09	29°♌30'29	2°02'41	morning rise	5698 Nov 09 15:56	7°♌55'26	
	5697 Nov 19 04:19	30°☿♌		direct	5698 Nov 12 01:01	7°♌29'02	
morning rise	5697 Nov 25 22:52	24°♌11'36		asc. node	5698 Nov 12 13:37	7°♌30'21	
asc. node	5697 Nov 25 16:34	24°♌18'55		morning max el	5698 Nov 18 17:00	10°♌54'50	17°49'10
direct	5697 Nov 28 12:53	23°♌36'50			5698 Dec 01 12:14	0°♍	
morning max el	5697 Dec 05 00:07	27°♌02'04	17°57'44	morning set	5698 Dec 04 21:00	5°♍54'17	
	5697 Dec 07 14:51	0°♍					
morning set	5697 Dec 22 11:04	23°♍19'41		superior conj	5698 Dec 16 15:18	26°♍09'04	0°13'58
	5697 Dec 26 11:04	0°☿		minimum elong	5698 Dec 16 16:42	26°♍14'54	0°13'48
desc. node	5697 Dec 31 17:33	8°☿39'41		behind sun begin	5698 Dec 16 11:54	25°♍54'52	
				behind sun end	5698 Dec 16 21:30	26°♍34'53	
superior conj	5698 Jan 05 04:33	15°☿51'24	-0°30'54	desc. node	5698 Dec 18 14:35	29°♍25'05	
minimum elong	5698 Jan 05 00:50	15°☿36'32	0°30'21		5698 Dec 18 23:03	0°☿	
max. Earth dist.	5698 Jan 09 12:45	22°☿45'21	1.44987 AU	max. Earth dist.	5698 Dec 23 06:06	6°☿59'00	1.43912 AU
	5698 Jan 14 03:36	0°♎		evening rise	5698 Dec 31 19:35	20°☿27'49	
evening rise	5698 Jan 21 09:02	11°♎11'32			5699 Jan 07 01:35	0°♎	
	5698 Feb 02 17:52	0°♏			5699 Jan 28 14:00	0°♏	
greatest brilliancy	5698 Feb 04 19:55	3°♏05'20	-0.6m	evening max el	5699 Jan 30 17:24	2°♏19'33	21°06'43
evening max el	5698 Feb 16 18:01	18°♏44'48	20°00'08	retrograde	5699 Feb 08 07:17	7°♏24'05	
asc. node	5698 Feb 21 15:49	22°♏31'50		asc. node	5699 Feb 08 12:52	7°♏23'48	
retrograde	5698 Feb 24 09:06	23°♏10'52		evening set	5699 Feb 12 10:44	5°♏47'13	
evening set	5698 Feb 28 03:02	21°♏49'00			5699 Feb 17 11:06	30°☿♎	
inferior conj	5698 Mar 05 12:20	15°♏47'17	3°09'06	inferior conj	5699 Feb 17 18:42	29°♎33'44	2°41'33
minimum elong	5698 Mar 05 10:22	15°♏53'53	3°08'44	minimum elong	5699 Feb 17 16:21	29°♎41'53	2°40'57
min. Earth dist.	5698 Mar 06 10:14	14°♏33'40	0.67233 AU	min. Earth dist.	5699 Feb 18 03:32	29°♎03'14	0.67902 AU
morning rise	5698 Mar 10 17:29	9°♏32'26		morning rise	5699 Feb 22 21:48	23°♎20'38	
direct	5698 Mar 16 14:35	6°♏54'47		direct	5699 Feb 28 04:43	21°♎01'12	
morning max el	5698 Mar 28 09:57	13°♏58'23	25°03'42	morning max el	5699 Mar 10 18:53	27°♎19'28	23°35'18
desc. node	5698 Mar 29 16:52	15°♏18'50			5699 Mar 13 07:02	0°♏	
	5698 Apr 10 10:44	0°♐		desc. node	5699 Mar 16 13:53	3°♏52'28	
	5698 Apr 29 17:37	0°♑			5699 Apr 04 02:22	0°♐	
morning set	5698 May 03 12:54	6°♑39'53		morning set	5699 Apr 15 00:57	17°♐43'14	
max. Earth dist.	5698 May 07 04:08	13°♑16'59	1.36750 AU	max. Earth dist.	5699 Apr 18 23:52	24°♐32'55	1.38897 AU

	5699 Apr 22 01:18	0°♄		superior conj	5700 Apr 08 15:39	19°♄54'43	-1°57'44
				minimum elong	5700 Apr 08 20:19	20°♄15'27	1°57'26
superior conj	5699 Apr 26 11:11	8°♄07'14	-1°35'32		5700 Apr 14 05:26	0°♄	
minimum elong	5699 Apr 26 16:14	8°♄30'53	1°34'55	evening rise	5700 Apr 19 02:15	9°♄02'00	
evening rise	5699 May 05 16:57	25°♄53'53		asc. node	5700 Apr 24 09:09	18°♄45'44	
asc. node	5699 May 07 12:07	29°♄22'41			5700 May 01 06:09	0°♄	
	5699 May 07 19:53	0°♄		evening max el	5700 May 05 06:54	4°♄51'20	18°16'02
evening max el	5699 May 21 23:30	22°♄11'51	18°45'22	retrograde	5700 May 12 09:45	8°♄25'06	
retrograde	5699 May 30 03:40	26°♄13'21		evening set	5700 May 14 19:28	8°♄01'33	
evening set	5699 Jun 01 06:17	25°♄58'15		inferior conj	5700 May 21 22:40	3°♄19'57	2°15'45
inferior conj	5699 Jun 09 04:37	21°♄36'45	0°58'14	minimum elong	5700 May 22 02:05	3°♄12'33	2°14'48
minimum elong	5699 Jun 09 06:45	21°♄32'49	0°57'28	min. Earth dist.	5700 May 25 08:44	0°♄24'20	0.59261 AU
min. Earth dist.	5699 Jun 12 10:30	19°♄14'09	0.57187 AU		5700 May 25 20:49	30°♄	
desc. node	5699 Jun 12 13:09	19°♄09'30		morning rise	5700 May 29 05:46	27°♄40'23	
morning rise	5699 Jun 17 03:51	16°♄27'13		desc. node	5700 May 30 10:10	27°♄03'33	
direct	5699 Jun 22 16:37	15°♄12'15		direct	5700 Jun 04 13:11	25°♄51'20	
morning max el	5699 Jul 07 01:17	22°♄43'05	26°20'59		5700 Jun 14 17:15	0°♄	
	5699 Jul 13 12:53	0°♄		morning max el	5700 Jun 18 22:26	3°♄41'24	27°24'51
	5699 Jul 31 20:16	0°♄			5700 Jul 08 04:31	0°♄	
asc. node	5699 Aug 03 11:21	5°♄21'09		morning set	5700 Jul 20 02:29	22°♄41'15	
morning set	5699 Aug 04 18:26	8°♄04'11		asc. node	5700 Jul 21 08:23	25°♄18'55	
					5700 Jul 23 12:41	0°♄	
superior conj	5699 Aug 11 17:13	23°♄13'00	1°16'26	max. Earth dist.	5700 Jul 26 16:26	6°♄55'20	1.31872 AU
minimum elong	5699 Aug 11 14:56	23°♄00'22	1°16'05				
max. Earth dist.	5699 Aug 12 05:24	24°♄20'13	1.32050 AU	superior conj	5700 Jul 27 04:58	8°♄04'34	0°57'39
	5699 Aug 14 19:16	0°♄		minimum elong	5700 Jul 27 02:49	7°♄52'46	0°57'14
evening rise	5699 Aug 18 15:16	8°♄12'53		evening rise	5700 Aug 03 00:00	22°♄55'10	
	5699 Aug 30 00:31	0°♄			5700 Aug 06 09:51	0°♄	
desc. node	5699 Sep 08 12:24	14°♄41'06			5700 Aug 24 09:04	0°♄	
evening max el	5699 Sep 18 15:24	26°♄31'48	27°04'13	desc. node	5700 Aug 26 09:25	2°♄31'12	
	5699 Sep 22 19:07	0°♄		evening max el	5700 Aug 31 14:10	8°♄08'00	26°08'22
retrograde	5699 Oct 02 12:24	3°♄43'20		retrograde	5700 Sep 14 13:15	15°♄15'15	
evening set	5699 Oct 09 13:33	1°♄31'18		evening set	5700 Sep 21 00:02	13°♄34'32	
	5699 Oct 11 18:35	30°♄		min. Earth dist.	5700 Sep 25 03:09	10°♄59'37	0.58934 AU
min. Earth dist.	5699 Oct 13 05:49	28°♄50'06	0.61013 AU	inferior conj	5700 Sep 28 08:30	8°♄35'13	-4°58'02
inferior conj	5699 Oct 16 09:12	26°♄08'33	-4°09'26	minimum elong	5700 Sep 28 13:46	8°♄25'21	4°57'13
minimum elong	5699 Oct 16 15:41	25°♄54'36	4°07'42	morning rise	5700 Oct 06 05:45	4°♄06'40	
morning rise	5699 Oct 23 19:52	21°♄17'26		direct	5700 Oct 08 14:29	3°♄47'50	
direct	5699 Oct 26 02:59	20°♄56'14		morning max el	5700 Oct 16 15:51	7°♄41'26	18°29'07
asc. node	5699 Oct 30 10:37	22°♄14'39		asc. node	5700 Oct 17 07:38	8°♄20'50	
morning max el	5699 Nov 02 07:24	24°♄31'15	17°59'09		5700 Oct 30 23:33	0°♄	
	5699 Nov 06 18:59	0°♄		morning set	5700 Nov 01 17:04	3°♄19'05	
morning set	5699 Nov 18 00:47	19°♄19'13					
	5699 Nov 23 20:33	0°♄		superior conj	5700 Nov 10 15:41	20°♄21'30	1°17'27
				minimum elong	5700 Nov 10 19:16	20°♄38'08	1°17'03
superior conj	5699 Nov 28 04:19	7°♄43'04	0°50'50		5700 Nov 15 23:25	0°♄	
minimum elong	5699 Nov 28 07:59	7°♄59'11	0°50'21	max. Earth dist.	5700 Nov 18 01:49	3°♄40'27	1.40263 AU
desc. node	5699 Dec 05 11:37	20°♄12'01		evening rise	5700 Nov 22 09:14	10°♄59'16	
max. Earth dist.	5699 Dec 05 18:34	20°♄40'52	1.42269 AU	desc. node	5700 Nov 22 08:39	10°♄56'49	
evening rise	5699 Dec 11 16:13	0°♄15'26			5700 Dec 04 10:31	0°♄	
	5699 Dec 11 12:20	0°♄		evening max el	5700 Dec 27 02:11	29°♄36'13	23°42'40
	5699 Dec 31 15:14	0°♄			5700 Dec 27 11:49	0°♄	
evening max el	5700 Jan 13 11:36	15°♄56'01	22°22'39	retrograde	5701 Jan 06 21:24	5°♄58'32	
retrograde	5700 Jan 23 03:52	21°♄41'14		evening set	5701 Jan 12 00:15	3°♄51'05	
asc. node	5700 Jan 26 09:54	20°♄45'58		asc. node	5701 Jan 13 06:55	2°♄38'27	
evening set	5700 Jan 27 18:19	19°♄49'01			5701 Jan 15 12:28	30°♄	
inferior conj	5700 Feb 02 02:45	13°♄27'09	2°05'19	inferior conj	5701 Jan 17 10:37	27°♄24'50	1°21'27
minimum elong	5700 Feb 02 00:28	13°♄35'05	2°04'35	minimum elong	5701 Jan 17 08:52	27°♄30'48	1°20'49
min. Earth dist.	5700 Feb 01 23:43	13°♄37'41	0.68165 AU	min. Earth dist.	5701 Jan 16 20:28	28°♄13'08	0.68045 AU
morning rise	5700 Feb 07 06:30	7°♄17'11		morning rise	5701 Jan 22 17:28	21°♄19'46	
direct	5700 Feb 11 22:51	5°♄19'43		direct	5701 Jan 26 19:57	19°♄44'54	
morning max el	5700 Feb 21 06:32	10°♄47'52	22°06'57	morning max el	5701 Feb 04 00:18	24°♄26'56	20°46'32
desc. node	5700 Mar 03 10:54	23°♄08'35			5701 Feb 08 21:12	0°♄	
	5700 Mar 08 08:58	0°♄		desc. node	5701 Feb 18 07:55	12°♄55'37	
morning set	5700 Mar 26 09:15	27°♄27'01			5701 Mar 01 18:10	0°♄	
	5700 Mar 27 22:56	0°♄		morning set	5701 Mar 05 15:21	6°♄00'08	
max. Earth dist.	5700 Mar 31 21:21	6°♄30'32	1.41085 AU	max. Earth dist.	5701 Mar 14 01:44	19°♄23'57	1.43029 AU

	5701 Mar 20 11:56	0°Υ		superior conj	5702 Mar 01 01:33	10°Ϡ16'51	-2°03'57
				minimum elong	5702 Feb 28 20:32	9°Ϡ56'37	2°03'43
superior conj	5701 Mar 20 21:21	0°Υ39'34	-2°09'07		5702 Mar 13 00:58	0°Υ	
minimum elong	5701 Mar 20 22:37	0°Υ44'53	2°09'06	evening rise	5702 Mar 14 18:47	2°Υ56'08	
evening rise	5701 Apr 01 20:23	21°Υ25'51		asc. node	5702 Mar 29 03:13	26°Υ10'25	
	5701 Apr 06 16:38	0°Ϡ			5702 Apr 01 03:33	0°Ϡ	
asc. node	5701 Apr 11 06:11	7°Ϡ44'24		evening max el	5702 Apr 02 07:43	1°Ϡ15'08	18°15'35
evening max el	5701 Apr 18 18:44	17°Ϡ55'28	18°06'19	retrograde	5702 Apr 08 17:25	4°Ϡ40'04	
retrograde	5701 Apr 25 07:48	21°Ϡ17'28		evening set	5702 Apr 11 16:28	3°Ϡ53'21	
evening set	5701 Apr 28 00:24	20°Ϡ43'02			5702 Apr 16 08:23	30°ϠΥ	
inferior conj	5701 May 04 11:56	15°Ϡ41'05	3°03'27	inferior conj	5702 Apr 17 16:22	28°Υ32'14	3°26'34
minimum elong	5701 May 04 14:34	15°Ϡ34'32	3°02'59	minimum elong	5702 Apr 17 17:28	28°Υ29'09	3°26'28
min. Earth dist.	5701 May 07 14:23	12°Ϡ37'27	0.61487 AU	min. Earth dist.	5702 Apr 20 05:02	25°Υ43'24	0.63564 AU
morning rise	5701 May 11 02:48	9°Ϡ42'20		morning rise	5702 Apr 23 17:25	22°Υ22'55	
desc. node	5701 May 17 07:11	7°Ϡ22'58		direct	5702 Apr 30 13:22	19°Υ41'39	
direct	5701 May 17 20:56	7°Ϡ21'59		desc. node	5702 May 04 04:11	20°Υ21'25	
morning max el	5701 Jun 01 01:47	15°Ϡ21'06	27°52'30	morning max el	5702 May 14 09:49	27°Υ41'05	27°42'35
	5701 Jun 12 23:54	0°Π			5702 May 16 14:40	0°Ϡ	
	5701 Jun 30 17:39	0°Ϡ			5702 Jun 06 17:32	0°Π	
morning set	5701 Jul 04 05:55	7°Ϡ01'49		morning set	5702 Jun 18 02:29	20°Π59'12	
asc. node	5701 Jul 08 05:25	15°Ϡ23'25			5702 Jun 22 12:09	0°Ϡ	
max. Earth dist.	5701 Jul 10 01:32	19°Ϡ21'41	1.32129 AU	max. Earth dist.	5702 Jun 23 04:58	1°Ϡ28'26	1.32832 AU
				asc. node	5702 Jun 25 02:28	5°Ϡ30'25	
superior conj	5701 Jul 11 15:19	22°Ϡ47'59	0°34'51				
minimum elong	5701 Jul 11 13:48	22°Ϡ39'43	0°34'30	superior conj	5702 Jun 25 22:27	7°Ϡ17'36	0°08'38
	5701 Jul 14 22:01	0°Ω		minimum elong	5702 Jun 25 22:01	7°Ϡ15'21	0°08'31
evening rise	5701 Jul 18 11:11	7°Ω41'34		behind sun begin	5702 Jun 25 17:29	6°Ϡ50'57	
	5701 Jul 30 00:32	0°Π		behind sun end	5702 Jun 26 02:34	7°Ϡ39'46	
evening max el	5701 Aug 13 05:41	18°Π57'31	24°45'19	evening rise	5702 Jul 02 22:57	22°Ϡ26'07	
desc. node	5701 Aug 13 06:26	18°Π59'17			5702 Jul 06 14:28	0°Ω	
retrograde	5701 Aug 27 02:57	25°Π57'34		evening max el	5702 Jul 25 18:02	29°Ω18'56	23°08'17
evening set	5701 Sep 01 10:13	24°Π54'22			5702 Jul 26 11:22	0°Π	
min. Earth dist.	5701 Sep 06 17:01	22°Π07'24	0.56994 AU	desc. node	5702 Jul 31 03:27	3°Π34'48	
inferior conj	5701 Sep 09 12:06	20°Π18'28	-5°20'46	retrograde	5702 Aug 08 04:00	6°Π01'26	
minimum elong	5701 Sep 09 12:42	20°Π17'30	5°20'47	evening set	5702 Aug 11 23:04	5°Π29'58	
morning rise	5701 Sep 17 17:30	16°Π11'50		min. Earth dist.	5702 Aug 19 02:59	2°Π14'56	0.55510 AU
direct	5701 Sep 20 07:53	15°Π52'55		inferior conj	5702 Aug 20 20:04	1°Π15'14	-5°00'38
morning max el	5701 Sep 29 14:54	20°Π15'26	19°20'37	minimum elong	5702 Aug 20 14:02	1°Π24'03	4°59'47
asc. node	5701 Oct 04 04:40	25°Π34'05			5702 Aug 23 00:49	30°ϠΩ	
	5701 Oct 07 04:05	0°Ω		morning rise	5702 Aug 29 07:14	27°Ω24'02	
morning set	5701 Oct 16 17:58	17°Ω43'02		direct	5702 Sep 01 06:24	27°Ω03'05	
	5701 Oct 22 21:25	0°Π			5702 Sep 09 13:18	0°Π	
				morning max el	5702 Sep 12 02:07	2°Π05'17	20°34'11
superior conj	5701 Oct 24 20:07	3°Π49'25	1°34'06	asc. node	5702 Sep 21 01:43	13°Π39'51	
minimum elong	5701 Oct 24 22:28	4°Π00'54	1°33'57		5702 Sep 29 20:33	0°Ω	
max. Earth dist.	5701 Oct 31 06:49	16°Π00'55	1.38144 AU	morning set	5702 Oct 01 00:35	2°Ω23'07	
evening rise	5701 Nov 04 00:59	22°Π44'37					
	5701 Nov 08 06:41	0°Ϡ		superior conj	5702 Oct 08 12:57	17°Ω53'50	1°42'01
desc. node	5701 Nov 09 05:38	1°Ϡ35'29		minimum elong	5702 Oct 08 13:47	17°Ω58'03	1°42'01
	5701 Nov 28 06:55	0°Ϡ		max. Earth dist.	5702 Oct 13 14:30	27°Ω58'27	1.36149 AU
evening max el	5701 Dec 09 15:11	13°Ϡ20'01	25°00'10		5702 Oct 14 15:45	0°Π	
retrograde	5701 Dec 21 10:43	20°Ϡ10'55		evening rise	5702 Oct 17 12:56	5°Π25'17	
evening set	5701 Dec 27 02:55	17°Ϡ49'19		desc. node	5702 Oct 27 02:41	22°Π03'56	
asc. node	5701 Dec 31 03:57	13°Ϡ22'39			5702 Nov 01 03:06	0°Ϡ	
min. Earth dist.	5701 Dec 31 15:22	12°Ϡ45'39	0.67565 AU	evening max el	5702 Nov 22 03:58	27°Ϡ04'29	26°07'52
inferior conj	5702 Jan 01 16:30	11°Ϡ23'11	0°30'45		5702 Nov 25 10:47	0°Ϡ	
minimum elong	5702 Jan 01 15:45	11°Ϡ25'39	0°30'28	retrograde	5702 Dec 04 19:07	4°Ϡ13'44	
morning rise	5702 Jan 07 04:46	5°Ϡ25'04		evening set	5702 Dec 11 00:40	1°Ϡ40'39	
direct	5702 Jan 10 18:38	4°Ϡ11'22			5702 Dec 12 19:28	30°ϠϠ	
morning max el	5702 Jan 18 02:00	8°Ϡ17'15	19°38'54	min. Earth dist.	5702 Dec 15 06:07	27°Ϡ12'07	0.66730 AU
greatest brilliancy	5702 Jan 31 01:35	25°Ϡ21'52	-0.7m	inferior conj	5702 Dec 16 18:33	25°Ϡ19'27	-0°25'53
	5702 Feb 03 04:05	0°≈		minimum elong	5702 Dec 16 19:14	25°Ϡ17'19	0°25'34
desc. node	5702 Feb 05 04:54	3°≈04'28		asc. node	5702 Dec 18 00:58	23°Ϡ46'42	
morning set	5702 Feb 12 11:51	14°≈13'59		morning rise	5702 Dec 22 14:22	19°Ϡ30'42	
	5702 Feb 22 14:39	0°Ϡ		direct	5702 Dec 25 17:18	18°Ϡ35'09	
max. Earth dist.	5702 Feb 24 13:52	3°Ϡ06'44	1.44474 AU	morning max el	5703 Jan 01 11:10	22°Ϡ16'54	18°46'34
					5703 Jan 07 17:32	0°Ϡ	

morning set	5703 Jan 22 23:52	23°  21'19		desc. node	5704 Jan 09 22:58	14°  05'25	
desc. node	5703 Jan 23 01:55	23°  29'24					
	5703 Jan 27 05:28	0°  ≈		superior conj	5704 Jan 18 13:56	27°  49'20	-0°57'47
max. Earth dist.	5703 Feb 07 07:22	17°  ≈21'30	1.45255 AU	minimum elong	5704 Jan 18 06:55	27°  21'39	0°56'52
					5704 Jan 19 23:08	0°  ≈	
superior conj	5703 Feb 08 09:29	19°  ≈04'03	-1°38'53	max. Earth dist.	5704 Jan 21 02:42	1°  ≈48'17	1.45293 AU
minimum elong	5703 Feb 08 00:05	18°  ≈27'09	1°38'00	evening rise	5704 Feb 03 19:41	23°  ≈11'18	
	5703 Feb 15 07:48	0°  ✕			5704 Feb 08 04:54	0°  ✕	
evening rise	5703 Feb 23 18:15	13°  ✕29'06		greatest brilliancy	5704 Feb 16 02:15	12°  ✕07'28	-0.7m
greatest brilliancy	5703 Mar 02 11:57	24°  ✕20'13	-0.9m	evening max el	5704 Feb 28 02:46	28°  ✕16'11	19°27'36
	5703 Mar 06 01:30	0°  Υ			5704 Feb 29 23:25	0°  Υ	
asc. node	5703 Mar 16 00:15	13°  Υ53'49		asc. node	5704 Mar 01 21:17	0°  Υ42'20	
evening max el	5703 Mar 16 19:06	14°  Υ43'30	18°43'05	retrograde	5704 Mar 06 07:28	2°  Υ23'35	
retrograde	5703 Mar 23 10:27	18°  Υ24'15		evening set	5704 Mar 09 20:28	1°  Υ10'09	
evening set	5703 Mar 26 16:04	17°  Υ24'31			5704 Mar 11 06:47	30°  R✕	
inferior conj	5703 Apr 01 08:00	11°  Υ45'55	3°30'45	inferior conj	5704 Mar 15 07:27	25°  ✕16'12	3°20'25
minimum elong	5703 Apr 01 07:36	11°  Υ47'08	3°30'44	minimum elong	5704 Mar 15 05:56	25°  ✕21'11	3°20'13
min. Earth dist.	5703 Apr 03 05:06	9°  Υ27'56	0.65312 AU	min. Earth dist.	5704 Mar 16 13:30	23°  ✕37'48	0.66651 AU
morning rise	5703 Apr 06 22:36	5°  Υ31'47		morning rise	5704 Mar 20 15:06	19°  ✕00'44	
direct	5703 Apr 13 13:12	2°  Υ42'33		direct	5704 Mar 26 19:26	16°  ✕15'50	
desc. node	5703 Apr 21 01:12	5°  Υ32'45		desc. node	5704 Apr 06 22:15	22°  ✕23'39	
morning max el	5703 Apr 26 20:01	10°  Υ32'02	26°59'22	morning max el	5704 Apr 08 05:52	23°  ✕41'18	25°50'46
	5703 May 12 05:01	0°  ♄			5704 Apr 13 20:56	0°  Υ	
	5703 May 30 05:17	0°  ♄			5704 May 04 13:59	0°  ♄	
morning set	5703 Jun 01 13:10	4°  ♄24'39		morning set	5704 May 14 10:02	17°  ♄07'08	
max. Earth dist.	5703 Jun 05 23:03	13°  ♄06'35	1.34001 AU	max. Earth dist.	5704 May 18 05:44	24°  ♄17'22	1.35627 AU
					5704 May 21 04:11	0°  ♄	
superior conj	5703 Jun 10 00:15	21°  ♄27'00	-0°20'12				
minimum elong	5703 Jun 10 01:20	21°  ♄32'39	0°19'59	superior conj	5704 May 23 18:11	5°  ♄09'23	-0°50'19
asc. node	5703 Jun 11 23:31	25°  ♄35'42		minimum elong	5704 May 23 21:01	5°  ♄23'38	0°49'48
	5703 Jun 14 01:23	0°  ♄		asc. node	5704 May 28 20:34	15°  ♄35'30	
evening rise	5703 Jun 17 09:22	7°  ♄02'26		evening rise	5704 May 31 16:22	21°  ♄24'18	
	5703 Jun 29 17:29	0°  ♄			5704 Jun 04 23:28	0°  ♄	
evening max el	5703 Jul 07 11:19	9°  ♄45'16	21°33'25	evening max el	5704 Jun 18 16:12	20°  ♄45'59	20°12'44
desc. node	5703 Jul 18 00:29	15°  ♄43'43		retrograde	5704 Jun 29 08:40	26°  ♄00'12	
retrograde	5703 Jul 19 19:00	15°  ♄51'10		evening set	5704 Jul 01 07:00	25°  ♄50'40	
evening set	5703 Jul 22 07:01	15°  ♄36'54		desc. node	5704 Jul 03 21:30	25°  ♄09'56	
inferior conj	5703 Jul 31 14:48	11°  ♄36'41	-3°47'58	inferior conj	5704 Jul 10 09:47	21°  ♄52'14	-1°56'42
minimum elong	5703 Jul 31 05:50	11°  ♄49'14	3°45'26	minimum elong	5704 Jul 10 04:20	22°  ♄00'17	1°54'43
min. Earth dist.	5703 Jul 31 12:45	11°  ♄39'32	0.54796 AU	min. Earth dist.	5704 Jul 12 00:37	20°  ♄54'49	0.55040 AU
morning rise	5703 Aug 09 05:45	7°  ♄44'32		morning rise	5704 Jul 19 00:17	17°  ♄38'08	
direct	5703 Aug 12 16:08	7°  ♄18'58		direct	5704 Jul 23 03:03	17°  ♄01'22	
morning max el	5703 Aug 25 01:32	13°  ♄09'13	22°06'58	morning max el	5704 Aug 05 16:57	23°  ♄39'26	23°50'30
	5703 Sep 06 14:02	0°  ♄			5704 Aug 11 10:31	0°  ♄	
asc. node	5703 Sep 07 22:46	2°  ♄25'03		asc. node	5704 Aug 24 19:50	21°  ♄40'07	
morning set	5703 Sep 15 10:36	17°  ♄11'46			5704 Aug 28 22:39	0°  ♄	
	5703 Sep 21 11:24	0°  ♄		morning set	5704 Aug 29 22:11	2°  ♄03'47	
superior conj	5703 Sep 22 14:20	2°  ♄22'28	1°42'30	superior conj	5704 Sep 05 21:22	17°  ♄06'35	1°36'37
minimum elong	5703 Sep 22 13:47	2°  ♄19'34	1°42'29	minimum elong	5704 Sep 05 19:48	16°  ♄58'05	1°36'30
max. Earth dist.	5703 Sep 26 04:57	9°  ♄52'33	1.34462 AU	max. Earth dist.	5704 Sep 08 04:00	22°  ♄00'03	1.33186 AU
evening rise	5703 Sep 30 16:51	18°  ♄49'40			5704 Sep 11 23:44	0°  ♄	
	5703 Oct 06 17:14	0°  ♄		evening rise	5704 Sep 13 08:46	2°  ♄47'35	
desc. node	5703 Oct 13 23:44	12°  ♄15'41			5704 Sep 28 13:02	0°  ♄	
	5703 Oct 26 06:32	0°  ♄		desc. node	5704 Sep 29 20:46	2°  ♄03'25	
evening max el	5703 Nov 04 16:42	10°  ♄41'12	26°58'34	evening max el	5704 Oct 17 04:34	24°  ♄00'08	27°25'10
retrograde	5703 Nov 17 22:04	17°  ♄59'08			5704 Oct 25 10:29	0°  ♄	
evening set	5703 Nov 24 15:24	15°  ♄19'54		retrograde	5704 Oct 30 19:01	1°  ♄18'29	
min. Earth dist.	5703 Nov 28 14:26	11°  ♄26'34	0.65533 AU		5704 Nov 04 19:07	30°  R♄	
inferior conj	5703 Nov 30 14:37	9°  ♄08'43	-1°27'19	evening set	5704 Nov 06 20:31	28°  ♄41'21	
minimum elong	5703 Nov 30 17:08	9°  ♄01'31	1°26'15	min. Earth dist.	5704 Nov 10 14:15	25°  ♄21'14	0.63993 AU
asc. node	5703 Dec 04 22:00	4°  ♄46'22		inferior conj	5704 Nov 13 02:15	22°  ♄45'27	-2°31'38
morning rise	5703 Dec 06 19:53	3°  ♄32'00		minimum elong	5704 Nov 13 06:44	22°  ♄33'48	2°29'55
direct	5703 Dec 09 13:53	2°  ♄50'53		morning rise	5704 Nov 19 18:27	17°  ♄23'41	
morning max el	5703 Dec 16 01:36	6°  ♄19'29	18°10'42	asc. node	5704 Nov 20 19:03	17°  ♄03'40	
	5704 Jan 01 06:49	0°  ♄		direct	5704 Nov 22 05:54	16°  ♄53'03	
morning set	5704 Jan 03 16:45	3°  ♄56'22		morning max el	5704 Nov 28 18:28	20°  ♄17'50	17°51'54



	5704 Dec 06 01:36	0°♊		minimum elong	5705 Oct 27 08:37	5°♎48'37	3°33'24
morning set	5704 Dec 15 13:29	15°♊52'48		morning rise	5705 Nov 03 06:27	0°♎59'12	
	5704 Dec 23 22:05	0°♊		direct	5705 Nov 05 14:13	0°♎35'26	
desc. node	5704 Dec 26 20:00	4°♊48'22		asc. node	5705 Nov 07 16:06	0°♎55'04	
				morning max el	5705 Nov 12 10:39	4°♎04'29	17°51'04
superior conj	5704 Dec 28 10:18	7°♊24'38	-0°11'14	morning set	5705 Nov 28 07:48	28°♎51'22	
minimum elong	5704 Dec 28 09:02	7°♊19'28	0°11'01		5705 Nov 28 23:06	0°♊	
behind sun begin	5704 Dec 28 01:42	6°♊49'38					
behind sun end	5704 Dec 28 16:22	7°♊49'16		superior conj	5705 Dec 09 08:22	18°♊15'18	0°30'48
max. Earth dist.	5705 Jan 02 21:07	16°♊10'03	1.44603 AU	minimum elong	5705 Dec 09 11:05	18°♊26'54	0°30'25
	5705 Jan 11 17:25	0°♋		desc. node	5705 Dec 13 17:01	25°♊34'59	
evening rise	5705 Jan 13 07:23	2°♋26'05			5705 Dec 16 09:35	0°♊	
	5705 Jan 31 19:21	0°♋		max. Earth dist.	5705 Dec 16 12:31	0°♊11'56	1.43270 AU
evening max el	5705 Feb 10 05:22	11°♋50'40	20°27'05	evening rise	5705 Dec 23 20:31	11°♊52'11	
asc. node	5705 Feb 16 18:19	16°♋21'10			5706 Jan 04 20:02	0°♋	
retrograde	5705 Feb 18 05:45	16°♋32'46		evening max el	5706 Jan 24 02:35	25°♋27'02	21°38'13
evening set	5705 Feb 22 03:27	15°♋04'50			5706 Jan 29 22:26	0°♋	
inferior conj	5705 Feb 27 11:57	8°♋57'52	2°58'33	retrograde	5706 Feb 02 03:20	0°♋48'29	
minimum elong	5705 Feb 27 09:46	9°♋05'19	2°58'06	asc. node	5706 Feb 03 15:20	0°♋36'32	
min. Earth dist.	5705 Feb 28 04:13	8°♋02'23	0.67567 AU		5706 Feb 05 03:00	30°♋	
morning rise	5705 Mar 04 15:52	2°♋43'22		evening set	5706 Feb 06 11:17	29°♋05'14	
direct	5705 Mar 10 07:06	0°♋12'30		inferior conj	5706 Feb 11 19:17	22°♋48'02	2°27'11
morning max el	5705 Mar 21 14:32	6°♋58'31	24°26'34	minimum elong	5706 Feb 11 16:54	22°♋56'19	2°26'31
desc. node	5705 Mar 24 19:16	10°♋25'51		min. Earth dist.	5706 Feb 11 23:00	22°♋35'07	0.68066 AU
	5705 Apr 08 12:38	0°♌		morning rise	5706 Feb 16 22:20	16°♋36'08	
morning set	5705 Apr 26 11:44	28°♌51'01		direct	5706 Feb 21 23:11	14°♋25'31	
	5705 Apr 27 03:28	0°♌		morning max el	5706 Mar 03 24:00	20°♋22'04	22°57'09
max. Earth dist.	5705 Apr 30 03:06	5°♌19'39	1.37640 AU	desc. node	5706 Mar 11 16:17	29°♋19'32	
					5706 Mar 12 04:47	0°♌	
superior conj	5705 May 07 00:55	18°♌15'20	-1°19'53		5706 Apr 01 18:04	0°♌	
minimum elong	5705 May 07 05:22	18°♌36'48	1°19'14	morning set	5706 Apr 07 12:23	9°♌21'20	
	5705 May 13 00:19	0°♍		max. Earth dist.	5706 Apr 11 22:39	16°♌50'22	1.39850 AU
evening rise	5705 May 15 17:23	5°♍23'45			5706 Apr 19 08:40	0°♌	
asc. node	5705 May 15 17:36	5°♍24'47					
	5705 May 30 03:01	0°♍		superior conj	5706 Apr 19 16:23	0°♌35'18	-1°45'55
evening max el	5705 Jun 01 09:37	2°♍29'25	19°11'22	minimum elong	5706 Apr 19 21:33	0°♌58'57	1°45'25
retrograde	5705 Jun 10 09:15	6°♍53'23		evening rise	5706 Apr 29 09:28	18°♌53'30	
evening set	5705 Jun 12 08:36	6°♍41'33		asc. node	5706 May 02 14:37	24°♌59'08	
inferior conj	5705 Jun 20 18:33	2°♍31'01	-0°00'01		5706 May 05 08:04	0°♍	
minimum elong	5705 Jun 20 18:33	2°♍31'01	0°00'03	evening max el	5706 May 15 12:56	14°♍51'12	18°30'23
transit middle	5705 Jun 20 18:33	2°♍31'01	0°00'03	retrograde	5706 May 23 04:36	18°♍38'30	
transit begin	5705 Jun 20 14:44	2°♍37'27		evening set	5706 May 25 10:22	18°♍20'02	
transit end	5705 Jun 20 22:22	2°♍24'35		inferior conj	5706 Jun 02 00:14	13°♍49'57	1°34'57
desc. node	5705 Jun 20 18:32	2°♍31'03		minimum elong	5706 Jun 02 03:16	13°♍43'58	1°33'58
min. Earth dist.	5705 Jun 23 15:08	0°♍36'12	0.56203 AU	min. Earth dist.	5706 Jun 05 09:40	11°♍10'42	0.58042 AU
	5705 Jun 24 13:55	30°♎♍		desc. node	5706 Jun 07 15:33	9°♍36'55	
morning rise	5705 Jun 29 01:24	27°♍42'21		morning rise	5706 Jun 09 16:55	8°♍26'48	
direct	5705 Jul 04 01:52	26°♍43'59		direct	5706 Jun 15 14:37	6°♍57'37	
	5705 Jul 13 09:47	0°♍		morning max el	5706 Jun 29 23:49	14°♍36'59	26°52'09
morning max el	5705 Jul 18 06:27	3°♍59'07	25°30'57		5706 Jul 12 08:03	0°♍	
	5705 Aug 05 20:33	0°♎			5706 Jul 29 00:48	0°♎	
asc. node	5705 Aug 11 16:52	11°♎16'46		morning set	5706 Jul 29 19:27	1°♎37'50	
morning set	5705 Aug 14 09:40	16°♎54'11		asc. node	5706 Jul 29 13:53	1°♎08'32	
	5705 Aug 20 10:10	0°♎					
superior conj	5705 Aug 21 07:44	1°♎58'38	1°25'14	superior conj	5706 Aug 05 19:28	16°♎52'10	1°08'59
minimum elong	5705 Aug 21 05:34	1°♎46'47	1°24'57	minimum elong	5706 Aug 05 17:11	16°♎39'33	1°08'35
max. Earth dist.	5705 Aug 22 10:24	4°♎25'00	1.32342 AU	max. Earth dist.	5706 Aug 05 20:58	17°♎00'28	1.31927 AU
evening rise	5705 Aug 28 09:19	17°♎09'29			5706 Aug 11 19:39	0°♎	
	5705 Sep 03 21:35	0°♏		evening rise	5706 Aug 12 15:45	1°♎46'43	
desc. node	5705 Sep 16 17:48	21°♏17'24			5706 Aug 27 21:10	0°♏	
	5705 Sep 23 06:41	0°♏		desc. node	5706 Sep 03 14:49	9°♏43'31	
evening max el	5705 Sep 29 13:34	6°♏48'56	27°21'37	evening max el	5706 Sep 11 16:47	18°♏54'08	26°44'26
retrograde	5705 Oct 13 08:57	14°♏02'48		retrograde	5706 Sep 25 14:39	26°♏02'59	
evening set	5705 Oct 20 12:38	11°♏38'32		evening set	5706 Oct 02 11:19	24°♏03'16	
min. Earth dist.	5705 Oct 24 03:56	8°♏45'55	0.62159 AU	min. Earth dist.	5706 Oct 06 06:42	21°♏26'54	0.60128 AU
inferior conj	5705 Oct 27 02:32	6°♏02'44	-3°35'21	inferior conj	5706 Oct 09 11:57	18°♏50'45	-4°32'16
				minimum elong	5706 Oct 09 18:17	18°♏37'54	4°30'51

morning rise	5706 Oct 17 03:19	14°♌08'49		inferior conj	5707 Sep 21 03:08	1°♌00'06	-5°11'49
direct	5706 Oct 19 10:47	13°♌48'48		minimum elong	5707 Sep 21 06:51	0°♌53'32	5°11'28
asc. node	5706 Oct 25 13:08	16°♌15'47			5707 Sep 22 13:44	30°♌	
morning max el	5706 Oct 26 22:51	17°♌30'28	18°09'23	morning rise	5707 Sep 29 04:14	26°♌41'31	
	5706 Nov 04 20:38	0°♌		direct	5707 Oct 01 15:02	26°♌22'51	
morning set	5706 Nov 11 17:28	12°♌32'57			5707 Oct 09 16:08	0°♌	
				morning max el	5707 Oct 10 03:44	0°♌26'54	18°48'23
superior conj	5706 Nov 21 07:29	0°♌18'15	1°03'24	asc. node	5707 Oct 12 10:10	2°♌52'42	
minimum elong	5706 Nov 21 11:20	0°♌35'33	1°02'56	morning set	5707 Oct 26 13:49	26°♌44'26	
	5706 Nov 21 03:25	0°♌			5707 Oct 28 05:43	0°♌	
max. Earth dist.	5706 Nov 28 23:10	13°♌38'29	1.41447 AU				
desc. node	5706 Nov 30 14:03	16°♌21'19		superior conj	5707 Nov 04 02:48	13°♌20'02	1°25'39
evening rise	5706 Dec 04 01:03	22°♌01'50		minimum elong	5707 Nov 04 05:57	13°♌34'56	1°25'22
	5706 Dec 09 01:32	0°♌		max. Earth dist.	5707 Nov 11 05:10	26°♌21'14	1.39359 AU
	5706 Dec 29 23:26	0°♌			5707 Nov 13 07:07	0°♌	
evening max el	5707 Jan 06 19:05	9°♌05'07	22°56'33	evening rise	5707 Nov 15 03:49	3°♌11'49	
retrograde	5707 Jan 16 22:39	15°♌06'17		desc. node	5707 Nov 17 11:04	7°♌04'01	
evening set	5707 Jan 21 18:21	13°♌07'22			5707 Dec 02 06:40	0°♌	
asc. node	5707 Jan 21 12:22	13°♌19'32		evening max el	5707 Dec 20 08:35	22°♌46'12	24°16'17
inferior conj	5707 Jan 27 03:27	6°♌43'17	1°47'36	retrograde	5707 Dec 31 14:33	29°♌22'09	
minimum elong	5707 Jan 27 01:20	6°♌50'35	1°46'53	evening set	5708 Jan 05 23:06	27°♌08'10	
min. Earth dist.	5707 Jan 26 19:35	7°♌10'26	0.68164 AU	asc. node	5708 Jan 08 09:24	24°♌38'32	
morning rise	5707 Feb 01 08:14	0°♌35'27		min. Earth dist.	5708 Jan 10 15:46	21°♌44'54	0.67884 AU
	5707 Feb 02 03:14	30°♌		inferior conj	5708 Jan 11 10:40	20°♌41'15	1°00'44
direct	5707 Feb 05 18:38	28°♌47'41		minimum elong	5708 Jan 11 09:17	20°♌45'54	1°00'12
	5707 Feb 09 17:44	0°♌		morning rise	5708 Jan 16 19:34	14°♌39'06	
morning max el	5707 Feb 14 13:54	3°♌54'41	21°31'30	direct	5708 Jan 20 16:26	13°♌13'45	
desc. node	5707 Feb 26 13:18	18°♌49'56		morning max el	5708 Jan 28 11:06	17°♌39'02	20°16'03
	5707 Mar 06 06:52	0°♌			5708 Feb 07 08:36	0°♌	
morning set	5707 Mar 18 08:39	18°♌32'07		desc. node	5708 Feb 13 10:18	8°♌46'56	
max. Earth dist.	5707 Mar 24 23:23	29°♌14'16	1.41963 AU	morning set	5708 Feb 25 07:44	26°♌48'26	
	5707 Mar 25 10:27	0°♌			5708 Feb 27 09:08	0°♌	
				max. Earth dist.	5708 Mar 06 07:14	12°♌30'25	1.43710 AU
superior conj	5707 Apr 01 11:45	11°♌57'41	-2°04'14				
minimum elong	5707 Apr 01 15:24	12°♌13'34	2°04'04	superior conj	5708 Mar 12 06:33	22°♌12'57	-2°09'15
	5707 Apr 11 13:58	0°♌		minimum elong	5708 Mar 12 05:21	22°♌07'59	2°09'14
evening rise	5707 Apr 12 12:53	1°♌44'36			5708 Mar 16 22:31	0°♌	
asc. node	5707 Apr 19 11:38	14°♌13'03		evening rise	5708 Mar 24 23:11	13°♌46'54	
evening max el	5707 Apr 28 22:37	27°♌42'36	18°09'28		5708 Apr 03 11:09	0°♌	
	5707 May 01 20:07	0°♌		asc. node	5708 Apr 05 08:40	2°♌59'09	
retrograde	5707 May 05 18:15	1°♌09'43		evening max el	5708 Apr 11 11:15	10°♌54'11	18°07'58
evening set	5707 May 08 06:57	0°♌41'42		retrograde	5708 Apr 17 21:54	14°♌16'10	
	5707 May 09 19:17	30°♌		evening set	5708 Apr 20 17:08	13°♌36'46	
inferior conj	5707 May 15 02:58	25°♌50'58	2°39'23	inferior conj	5708 Apr 26 23:15	8°♌26'30	3°15'56
minimum elong	5707 May 15 06:13	25°♌43'29	2°38'36	minimum elong	5708 Apr 27 01:16	8°♌21'12	3°15'38
min. Earth dist.	5707 May 18 10:42	22°♌49'08	0.60210 AU	min. Earth dist.	5708 Apr 29 20:16	5°♌26'31	0.62393 AU
morning rise	5707 May 22 02:59	20°♌01'55		morning rise	5708 May 03 07:49	2°♌22'00	
desc. node	5707 May 25 12:32	18°♌27'18			5708 May 08 11:30	30°♌	
direct	5707 May 28 15:50	17°♌59'06		direct	5708 May 10 03:33	29°♌51'16	
morning max el	5707 Jun 11 23:53	25°♌53'34	27°41'21	desc. node	5708 May 11 09:34	29°♌55'59	
	5707 Jun 15 19:38	0°♌			5708 May 11 20:32	0°♌	
	5707 Jul 05 19:12	0°♌		morning max el	5708 May 24 05:47	7°♌52'30	27°52'48
morning set	5707 Jul 14 01:51	16°♌09'35			5708 Jun 10 04:35	0°♌	
asc. node	5707 Jul 16 10:55	21°♌10'16			5708 Jun 26 22:23	0°♌	
max. Earth dist.	5707 Jul 20 07:56	29°♌35'21	1.31932 AU	morning set	5708 Jun 27 02:42	0°♌21'53	
	5707 Jul 20 12:25	0°♌		asc. node	5708 Jul 02 07:56	11°♌16'35	
				max. Earth dist.	5708 Jul 02 15:07	11°♌55'12	1.32371 AU
superior conj	5707 Jul 21 06:51	1°♌41'34	0°48'26				
minimum elong	5707 Jul 21 04:55	1°♌30'56	0°48'02	superior conj	5708 Jul 04 16:05	16°♌20'12	0°24'06
evening rise	5707 Jul 28 01:49	16°♌32'21		minimum elong	5708 Jul 04 14:58	16°♌14'11	0°23'51
	5707 Aug 03 17:11	0°♌			5708 Jul 10 22:44	0°♌	
desc. node	5707 Aug 21 11:49	27°♌02'33		evening rise	5708 Jul 11 13:29	1°♌18'50	
	5707 Aug 24 08:13	0°♌			5708 Jul 27 05:43	0°♌	
evening max el	5707 Aug 24 12:13	0°♌09'33	25°35'38	evening max el	5708 Aug 05 01:19	10°♌43'07	24°04'41
retrograde	5707 Sep 07 10:49	7°♌14'22		desc. node	5708 Aug 07 08:51	12°♌47'07	
evening set	5707 Sep 13 11:47	5°♌49'05		retrograde	5708 Aug 18 19:39	17°♌38'29	
min. Earth dist.	5707 Sep 18 00:08	3°♌11'38	0.58078 AU	evening set	5708 Aug 23 11:51	16°♌50'08	

min. Earth dist.	5708 Aug 29 11:57	13° $\mathbb{M}$ 52'45	0.56287 AU		5709 Jul 03 00:16	0° $\mathcal{O}$	
inferior conj	5708 Aug 31 22:02	12° $\mathbb{M}$ 23'11	-5°18'24	evening max el	5709 Jul 17 14:51	21° $\mathcal{O}$ 03'07	22°26'48
minimum elong	5708 Aug 31 19:47	12° $\mathbb{M}$ 26'40	5°18'18	desc. node	5709 Jul 25 05:52	26° $\mathcal{O}$ 24'23	
morning rise	5708 Sep 09 06:11	8° $\mathbb{M}$ 24'41		retrograde	5709 Jul 30 15:55	27° $\mathcal{O}$ 32'14	
direct	5708 Sep 11 23:47	8° $\mathbb{M}$ 05'18		evening set	5709 Aug 02 19:51	27° $\mathcal{O}$ 10'13	
morning max el	5708 Sep 21 22:05	12° $\mathbb{M}$ 43'27	19°49'19	min. Earth dist.	5709 Aug 10 21:51	23° $\mathcal{O}$ 38'50	0.55101 AU
asc. node	5708 Sep 28 07:13	20° $\mathbb{M}$ 30'01		inferior conj	5709 Aug 11 23:10	23° $\mathcal{O}$ 02'59	-4°36'04
	5708 Oct 03 22:58	0° $\mathcal{A}$		minimum elong	5709 Aug 11 15:05	23° $\mathcal{O}$ 14'27	4°34'24
morning set	5708 Oct 09 17:27	11° $\mathcal{A}$ 15'54		morning rise	5709 Aug 20 12:11	19° $\mathcal{O}$ 13'21	
				direct	5709 Aug 23 15:39	18° $\mathcal{O}$ 50'53	
superior conj	5708 Oct 17 13:03	27° $\mathcal{A}$ 05'11	1°38'26	morning max el	5709 Sep 04 04:04	24° $\mathcal{O}$ 13'34	21°11'33
minimum elong	5708 Oct 17 14:46	27° $\mathcal{A}$ 13'41	1°38'22		5709 Sep 09 07:23	0° $\mathbb{M}$	
	5708 Oct 19 00:27	0° $\mathbb{M}$		asc. node	5709 Sep 15 04:15	8° $\mathbb{M}$ 54'04	
max. Earth dist.	5708 Oct 23 10:08	8° $\mathbb{M}$ 27'07	1.37263 AU	morning set	5709 Sep 24 01:44	26° $\mathbb{M}$ 00'11	
evening rise	5708 Oct 27 04:37	15° $\mathbb{M}$ 21'51			5709 Sep 25 23:43	0° $\mathcal{A}$	
desc. node	5708 Nov 03 08:06	27° $\mathbb{M}$ 38'58					
	5708 Nov 04 18:37	0° $\mathcal{A}$		superior conj	5709 Oct 01 09:54	11° $\mathcal{A}$ 21'01	1°43'03
	5708 Nov 25 22:02	0° $\mathcal{B}$		minimum elong	5709 Oct 01 10:07	11° $\mathcal{A}$ 22'06	1°43'04
evening max el	5708 Dec 01 21:12	6° $\mathcal{B}$ 30'24	25°30'38	max. Earth dist.	5709 Oct 05 20:04	20° $\mathcal{A}$ 19'45	1.35389 AU
retrograde	5708 Dec 14 02:04	13° $\mathcal{B}$ 31'20		evening rise	5709 Oct 09 23:53	28° $\mathcal{A}$ 22'49	
evening set	5708 Dec 19 23:56	11° $\mathcal{B}$ 04'20			5709 Oct 10 20:37	0° $\mathbb{M}$	
min. Earth dist.	5708 Dec 24 09:16	6° $\mathcal{B}$ 15'25	0.67244 AU	desc. node	5709 Oct 21 05:08	18° $\mathbb{M}$ 01'09	
asc. node	5708 Dec 25 06:27	5° $\mathcal{B}$ 07'29			5709 Oct 29 00:40	0° $\mathcal{A}$	
inferior conj	5708 Dec 25 15:11	4° $\mathcal{B}$ 39'23	0°07'24	evening max el	5709 Nov 14 10:09	20° $\mathcal{A}$ 13'14	26°32'05
minimum elong	5708 Dec 25 14:59	4° $\mathcal{B}$ 40'00	0°07'20	retrograde	5709 Nov 27 08:17	27° $\mathcal{A}$ 27'22	
transit middle	5708 Dec 25 14:59	4° $\mathcal{B}$ 40'00	0°07'20	evening set	5709 Dec 03 18:58	24° $\mathcal{A}$ 51'13	
transit begin	5708 Dec 25 12:29	4° $\mathcal{B}$ 48'02		min. Earth dist.	5709 Dec 07 21:42	20° $\mathcal{A}$ 37'25	0.66257 AU
transit end	5708 Dec 25 17:29	4° $\mathcal{B}$ 31'59		inferior conj	5709 Dec 09 14:59	18° $\mathcal{A}$ 33'31	-0°51'29
	5708 Dec 29 16:13	30° $\mathcal{R}$ $\mathcal{A}$		minimum elong	5709 Dec 09 16:24	18° $\mathcal{A}$ 29'13	0°50'51
morning rise	5708 Dec 31 06:24	28° $\mathcal{A}$ 44'53		asc. node	5709 Dec 12 03:31	15° $\mathcal{A}$ 40'06	
direct	5709 Jan 03 15:17	27° $\mathcal{A}$ 39'29		morning rise	5709 Dec 15 14:34	12° $\mathcal{A}$ 49'15	
	5709 Jan 08 22:46	0° $\mathcal{B}$		direct	5709 Dec 18 13:26	12° $\mathcal{A}$ 00'17	
morning max el	5709 Jan 10 16:11	1° $\mathcal{B}$ 34'09	19°14'40	morning max el	5709 Dec 25 03:50	15° $\mathcal{A}$ 35'26	18°29'12
greatest brilliancy	5709 Jan 24 02:41	19° $\mathcal{B}$ 35'23	-0.7m		5710 Jan 04 19:59	0° $\mathcal{B}$	
desc. node	5709 Jan 30 07:20	29° $\mathcal{B}$ 03'27		morning set	5710 Jan 14 07:42	15° $\mathcal{B}$ 00'31	
	5709 Jan 30 22:00	0° $\approx$		desc. node	5710 Jan 17 04:22	19° $\mathcal{B}$ 33'35	
morning set	5709 Feb 03 08:03	5° $\approx$ 17'19			5710 Jan 23 18:44	0° $\approx$	
max. Earth dist.	5709 Feb 16 21:24	26° $\approx$ 26'59	1.44884 AU				
	5709 Feb 19 03:18	0° $\mathcal{H}$		superior conj	5710 Jan 30 04:45	10° $\approx$ 04'50	-1°22'53
				minimum elong	5710 Jan 29 19:33	9° $\approx$ 28'46	1°21'51
superior conj	5709 Feb 20 00:53	1° $\mathcal{H}$ 25'32	-1°55'44	max. Earth dist.	5710 Jan 30 15:55	10° $\approx$ 48'34	1.45361 AU
minimum elong	5709 Feb 19 17:21	0° $\mathcal{H}$ 55'38	1°55'14		5710 Feb 11 21:09	0° $\mathcal{H}$	
evening rise	5709 Mar 06 12:06	24° $\mathcal{H}$ 53'01		evening rise	5710 Feb 15 01:36	5° $\mathcal{H}$ 02'05	
	5709 Mar 09 14:16	0° $\mathcal{Y}$		greatest brilliancy	5710 Feb 24 12:57	19° $\mathcal{H}$ 59'52	-0.8m
asc. node	5709 Mar 23 05:43	21° $\mathcal{Y}$ 08'59			5710 Mar 03 04:09	0° $\mathcal{Y}$	
evening max el	5709 Mar 25 23:54	24° $\mathcal{Y}$ 18'47	18°25'11	evening max el	5710 Mar 09 10:00	7° $\mathcal{Y}$ 49'43	19°00'08
retrograde	5709 Apr 01 11:06	27° $\mathcal{Y}$ 49'05		asc. node	5710 Mar 10 02:46	8° $\mathcal{Y}$ 30'50	
evening set	5709 Apr 04 12:49	26° $\mathcal{Y}$ 57'04		retrograde	5710 Mar 16 06:02	11° $\mathcal{Y}$ 40'12	
inferior conj	5709 Apr 10 08:56	21° $\mathcal{Y}$ 28'36	3°30'21	evening set	5710 Mar 19 14:44	10° $\mathcal{Y}$ 34'42	
minimum elong	5709 Apr 10 09:22	21° $\mathcal{Y}$ 27'20	3°30'19	inferior conj	5710 Mar 25 04:14	4° $\mathcal{Y}$ 49'33	3°27'53
min. Earth dist.	5709 Apr 12 15:10	18° $\mathcal{Y}$ 51'01	0.64350 AU	minimum elong	5710 Mar 25 03:18	4° $\mathcal{Y}$ 52'28	3°27'50
morning rise	5709 Apr 16 05:06	15° $\mathcal{Y}$ 16'38		min. Earth dist.	5710 Mar 26 18:51	2° $\mathcal{Y}$ 47'40	0.65937 AU
direct	5709 Apr 22 23:36	12° $\mathcal{Y}$ 29'58			5710 Mar 29 04:28	30° $\mathcal{R}$ $\mathcal{H}$	
desc. node	5709 Apr 28 06:35	13° $\mathcal{Y}$ 55'16		morning rise	5710 Mar 30 15:29	28° $\mathcal{H}$ 34'45	
morning max el	5709 May 06 15:02	20° $\mathcal{Y}$ 27'22	27°27'50	direct	5710 Apr 06 02:21	25° $\mathcal{H}$ 45'50	
	5709 May 14 19:57	0° $\mathcal{B}$		desc. node	5710 Apr 15 03:37	29° $\mathcal{H}$ 52'26	
	5709 Jun 03 06:19	0° $\mathbb{I}$			5710 Apr 15 07:19	0° $\mathcal{Y}$	
morning set	5709 Jun 10 19:31	14° $\mathbb{I}$ 07'25		morning max el	5710 Apr 19 01:02	3° $\mathcal{Y}$ 26'28	26°32'43
max. Earth dist.	5709 Jun 15 14:45	23° $\mathbb{I}$ 49'42	1.33270 AU		5710 May 09 03:52	0° $\mathcal{B}$	
				morning set	5710 May 25 00:51	27° $\mathcal{B}$ 15'55	
superior conj	5709 Jun 18 21:15	0° $\mathcal{B}$ 42'32	-0°03'21		5710 May 26 11:20	0° $\mathbb{I}$	
minimum elong	5709 Jun 18 21:26	0° $\mathcal{B}$ 43'27	0°03'20	max. Earth dist.	5710 May 29 03:50	5° $\mathbb{I}$ 14'14	1.34639 AU
behind sun begin	5709 Jun 18 16:05	0° $\mathcal{B}$ 14'59					
behind sun end	5709 Jun 19 02:47	1° $\mathcal{B}$ 11'56		superior conj	5710 Jun 02 20:05	14° $\mathbb{I}$ 41'40	-0°32'53
	5709 Jun 18 13:16	0° $\mathcal{B}$		minimum elong	5710 Jun 02 21:53	14° $\mathbb{I}$ 50'58	0°32'32
asc. node	5709 Jun 19 04:59	1° $\mathcal{B}$ 23'42		asc. node	5710 Jun 06 02:02	21° $\mathbb{I}$ 27'20	
evening rise	5709 Jun 26 00:55	16° $\mathcal{B}$ 00'47		evening rise	5710 Jun 10 10:08	0° $\mathcal{B}$ 31'54	

	5710 Jun 10 04:00	0°☿			5711 May 18 07:54	0°♊	
	5710 Jun 27 21:34	0°♊		asc. node	5711 May 23 23:04	11°♊23'12	
evening max el	5710 Jun 29 12:45	1°♊42'35 20°56'58		evening rise	5711 May 25 14:54	14°♊45'11	
retrograde	5710 Jul 11 04:23	7°♊26'46			5711 Jun 02 14:02	0°☿	
desc. node	5710 Jul 12 02:52	7°♊24'39		evening max el	5711 Jun 11 23:01	13°☿00'52 19°44'08	
evening set	5710 Jul 13 08:33	7°♊15'34		retrograde	5711 Jun 21 21:29	17°☿52'58	
inferior conj	5710 Jul 22 16:11	3°♊18'19 -3°03'43		evening set	5711 Jun 23 19:08	17°☿43'02	
minimum elong	5710 Jul 22 08:05	3°♊29'47 3°01'05		desc. node	5711 Jun 28 23:53	15°☿48'53	
min. Earth dist.	5710 Jul 23 08:14	2°♊55'38 0.54785 AU		inferior conj	5711 Jul 02 15:36	13°☿40'24 -1°05'53	
	5710 Jul 29 05:21	30°☿☿		minimum elong	5711 Jul 02 12:34	13°☿45'06 1°04'45	
morning rise	5710 Jul 31 07:42	29°☿19'21		min. Earth dist.	5711 Jul 04 20:46	12°☿18'05 0.55429 AU	
direct	5710 Aug 04 00:38	28°☿49'52		morning rise	5711 Jul 11 03:51	9°☿12'48	
	5710 Aug 09 14:35	0°♊		direct	5711 Jul 15 15:21	8°☿28'27	
morning max el	5710 Aug 16 23:15	5°♊00'50 22°50'19		morning max el	5711 Jul 29 13:01	15°☿23'08 24°34'40	
asc. node	5710 Sep 02 01:18	27°♊53'41			5711 Aug 10 04:19	0°♊	
	5710 Sep 03 03:56	0°♊		asc. node	5711 Aug 19 22:20	17°♊19'07	
morning set	5710 Sep 08 12:40	10°♊51'43		morning set	5711 Aug 24 00:26	25°♊44'16	
					5711 Aug 26 00:10	0°♊	
superior conj	5710 Sep 15 14:01	25°♊57'47 1°40'44		superior conj	5711 Aug 30 22:43	10°♊46'24 1°32'26	
minimum elong	5710 Sep 15 13:00	25°♊52'17 1°40'40		minimum elong	5711 Aug 30 20:51	10°♊36'11 1°32'14	
	5710 Sep 17 11:42	0°♊		max. Earth dist.	5711 Sep 01 17:15	14°♊37'21 1.32776 AU	
max. Earth dist.	5710 Sep 18 14:34	2°♊20'47 1.33873 AU		evening rise	5711 Sep 07 05:23	26°♊13'01	
evening rise	5710 Sep 23 09:26	12°♊03'39			5711 Sep 09 02:30	0°♊	
	5710 Oct 03 03:54	0°♊		desc. node	5711 Sep 24 23:11	27°♊39'31	
desc. node	5710 Oct 08 02:11	8°♊04'21			5711 Sep 26 13:13	0°♊	
	5710 Oct 24 07:29	0°♊		evening max el	5711 Oct 10 09:50	16°♊52'58 27°27'28	
evening max el	5710 Oct 27 22:58	3°♊45'20 27°13'15		retrograde	5711 Oct 24 02:24	24°♊09'22	
retrograde	5710 Nov 10 08:32	11°♊03'18		evening set	5711 Oct 31 05:58	21°♊36'04	
evening set	5710 Nov 17 05:56	8°♊24'05		min. Earth dist.	5711 Nov 03 22:06	18°♊28'56 0.63255 AU	
min. Earth dist.	5710 Nov 21 02:40	4°♊45'11 0.64924 AU		inferior conj	5711 Nov 06 14:59	15°♊48'27 -2°58'59	
inferior conj	5710 Nov 23 07:49	2°♊19'00 -1°54'24		minimum elong	5711 Nov 06 20:14	15°♊35'25 2°57'06	
minimum elong	5710 Nov 23 11:10	2°♊09'47 1°53'01		morning rise	5711 Nov 13 12:08	10°♊34'14	
	5710 Nov 25 12:10	30°☿♊		direct	5711 Nov 15 21:45	10°♊06'52	
asc. node	5710 Nov 29 00:32	27°♊09'54		asc. node	5711 Nov 15 21:33	10°♊06'52	
morning rise	5710 Nov 29 17:33	26°♊48'03		morning max el	5711 Nov 22 12:36	13°♊32'03 17°49'18	
direct	5710 Dec 02 08:34	26°♊11'42			5711 Dec 03 20:25	0°♊	
morning max el	5710 Dec 08 19:38	29°♊37'22 18°00'32		morning set	5711 Dec 08 19:50	8°♊38'25	
	5710 Dec 09 04:33	0°♊					
morning set	5710 Dec 26 13:08	26°♊13'00		superior conj	5711 Dec 20 20:46	29°♊12'29 0°07'36	
	5710 Dec 28 19:51	0°♊		minimum elong	5711 Dec 20 21:34	29°♊15'45 0°07'29	
desc. node	5711 Jan 04 01:26	10°♊13'23		behind sun begin	5711 Dec 20 13:09	28°♊40'51	
				behind sun end	5711 Dec 21 05:59	29°♊50'35	
superior conj	5711 Jan 09 13:55	19°♊05'52 -0°38'00			5711 Dec 21 08:16	0°♊	
minimum elong	5711 Jan 09 09:18	18°♊47'28 0°37'20		desc. node	5711 Dec 21 22:28	0°♊58'33	
max. Earth dist.	5711 Jan 13 11:44	25°♊17'23 1.45094 AU		max. Earth dist.	5711 Dec 27 05:23	9°♊33'43 1.44110 AU	
	5711 Jan 16 11:44	0°♊		evening rise	5712 Jan 05 06:02	23°♊43'58	
evening rise	5711 Jan 25 19:43	14°♊29'04			5712 Jan 09 08:20	0°♊	
	5711 Feb 04 23:05	0°♊			5712 Jan 30 07:41	0°♊	
greatest brilliancy	5711 Feb 08 19:13	5°♊44'50 -0.6m		evening max el	5712 Feb 03 15:49	4°♊58'10 20°56'05	
evening max el	5711 Feb 20 15:39	21°♊23'15 19°51'14		asc. node	5712 Feb 11 20:48	9°♊56'41	
asc. node	5711 Feb 24 23:48	24°♊51'31		retrograde	5712 Feb 12 02:07	9°♊56'57	
retrograde	5711 Feb 28 03:49	25°♊44'14		evening set	5712 Feb 16 04:00	8°♊22'25	
evening set	5711 Mar 03 20:27	24°♊24'30		inferior conj	5712 Feb 21 12:03	2°♊10'27 2°46'19	
inferior conj	5711 Mar 09 06:06	18°♊24'36 3°12'22		minimum elong	5712 Feb 21 09:44	2°♊18'28 2°45'46	
minimum elong	5711 Mar 09 04:14	18°♊30'50 3°12'04		min. Earth dist.	5712 Feb 21 22:45	1°♊33'32 0.67826 AU	
min. Earth dist.	5711 Mar 10 06:02	17°♊04'38 0.67097 AU			5712 Feb 23 02:15	30°☿♊	
morning rise	5711 Mar 14 11:48	12°♊09'35		morning rise	5712 Feb 26 15:16	25°♊56'51	
direct	5711 Mar 20 10:49	9°♊29'54		direct	5712 Mar 03 00:19	23°♊34'22	
morning max el	5711 Apr 01 10:17	16°♊39'29 25°16'17			5712 Mar 13 19:02	0°♊	
desc. node	5711 Apr 02 00:39	17°♊16'19		morning max el	5712 Mar 13 19:08	0°♊00'17 23°48'40	
	5711 Apr 12 12:09	0°♊		desc. node	5712 Mar 18 21:42	5°♊42'48	
	5711 May 02 02:46	0°♊			5712 Apr 05 08:46	0°♊	
morning set	5711 May 07 14:13	9°♊34'50		morning set	5712 Apr 18 06:01	20°♊49'36	
max. Earth dist.	5711 May 11 06:13	16°♊18'43 1.36446 AU		max. Earth dist.	5712 Apr 22 02:09	27°♊30'24 1.38566 AU	
					5712 Apr 23 11:44	0°♊	
superior conj	5711 May 17 09:40	28°♊09'26 -1°03'04					
minimum elong	5711 May 17 13:14	28°♊27'06 1°02'28					

superior conj	5712 Apr 29 10:27	10° $\text{C}$ 57'07	-1°31'35	minimum elong	5713 Apr 11 22:47	23° $\text{Y}$ 15'22	1°54'35
minimum elong	5712 Apr 29 15:22	11° $\text{C}$ 20'24	1°30'57		5713 Apr 15 15:53	0° $\text{C}$	
evening rise	5712 May 08 12:34	28° $\text{C}$ 33'28		evening rise	5713 Apr 21 23:44	11° $\text{C}$ 47'29	
	5712 May 09 06:18	0° $\text{II}$		asc. node	5713 Apr 26 17:06	20° $\text{C}$ 33'14	
asc. node	5712 May 09 20:05	1° $\text{II}$ 07'01			5713 May 02 05:58	0° $\text{II}$	
evening max el	5712 May 24 20:59	25° $\text{II}$ 01'25	18°51'28	evening max el	5713 May 08 03:27	7° $\text{II}$ 36'45	18°19'08
retrograde	5712 Jun 02 05:57	29° $\text{II}$ 08'21		retrograde	5713 May 15 09:12	11° $\text{II}$ 13'23	
evening set	5712 Jun 04 07:33	28° $\text{II}$ 54'17		evening set	5713 May 17 17:55	10° $\text{II}$ 51'14	
inferior conj	5712 Jun 12 08:56	24° $\text{II}$ 35'50	0°43'46	inferior conj	5713 May 24 23:48	6° $\text{II}$ 12'44	2°06'00
minimum elong	5712 Jun 12 10:36	24° $\text{II}$ 32'50	0°43'09	minimum elong	5713 May 25 03:12	6° $\text{II}$ 05'34	2°05'00
desc. node	5712 Jun 14 20:54	22° $\text{II}$ 47'50		min. Earth dist.	5713 May 28 10:10	3° $\text{II}$ 20'32	0.58941 AU
min. Earth dist.	5712 Jun 15 12:57	22° $\text{II}$ 19'51	0.56910 AU	morning rise	5713 Jun 01 09:25	0° $\text{II}$ 37'07	
morning rise	5712 Jun 20 10:16	19° $\text{II}$ 31'28		desc. node	5713 Jun 01 17:56	0° $\text{II}$ 25'44	
direct	5712 Jun 25 19:54	18° $\text{II}$ 21'03			5713 Jun 02 15:12	30° $\text{R}$ $\text{C}$	
morning max el	5712 Jul 10 03:54	25° $\text{II}$ 48'32	26°08'48	direct	5713 Jun 07 14:38	28° $\text{C}$ 53'05	
	5712 Jul 14 02:32	0° $\text{C}$			5713 Jun 12 17:52	0° $\text{II}$	
	5712 Aug 02 07:11	0° $\text{Q}$		morning max el	5713 Jun 21 23:56	6° $\text{II}$ 40'44	27°17'29
asc. node	5712 Aug 05 19:23	7° $\text{Q}$ 03'11			5713 Jul 09 10:34	0° $\text{C}$	
morning set	5712 Aug 07 11:24	10° $\text{Q}$ 32'48		morning set	5713 Jul 22 19:57	25° $\text{C}$ 11'37	
				asc. node	5713 Jul 23 16:24	26° $\text{C}$ 59'27	
superior conj	5712 Aug 14 09:54	25° $\text{Q}$ 40'10	1°18'54		5713 Jul 25 02:12	0° $\text{Q}$	
minimum elong	5712 Aug 14 07:38	25° $\text{Q}$ 27'40	1°18'35	superior conj	5713 Jul 29 21:42	10° $\text{Q}$ 32'27	1°00'46
max. Earth dist.	5712 Aug 15 01:46	27° $\text{Q}$ 07'43	1.32110 AU	minimum elong	5713 Jul 29 19:30	10° $\text{Q}$ 20'20	1°00'22
	5712 Aug 16 09:07	0° $\text{np}$		max. Earth dist.	5713 Jul 29 12:42	9° $\text{Q}$ 42'44	1.31870 AU
evening rise	5712 Aug 21 08:43	10° $\text{np}$ 42'20		evening rise	5713 Aug 05 16:55	25° $\text{Q}$ 23'35	
	5712 Aug 31 08:18	0° $\text{Q}$			5713 Aug 07 21:47	0° $\text{np}$	
desc. node	5712 Sep 10 20:11	16° $\text{Q}$ 35'16			5713 Aug 25 05:09	0° $\text{Q}$	
evening max el	5712 Sep 21 16:26	29° $\text{Q}$ 23'47	27°09'47	desc. node	5713 Aug 28 17:11	4° $\text{Q}$ 35'40	
	5712 Sep 22 08:03	0° $\text{ml}$		evening max el	5713 Sep 03 16:29	11° $\text{Q}$ 08'12	26°18'47
retrograde	5712 Oct 05 13:12	6° $\text{ml}$ 36'12		retrograde	5713 Sep 17 15:26	18° $\text{Q}$ 15'54	
evening set	5712 Oct 12 15:17	4° $\text{ml}$ 20'32		evening set	5713 Sep 24 05:10	16° $\text{Q}$ 30'06	
min. Earth dist.	5712 Oct 16 07:00	1° $\text{ml}$ 36'47	0.61315 AU	min. Earth dist.	5713 Sep 28 05:49	13° $\text{Q}$ 55'20	0.59238 AU
	5712 Oct 18 03:35	30° $\text{R}$ $\text{Q}$		inferior conj	5713 Oct 01 11:26	11° $\text{Q}$ 27'21	-4°52'02
inferior conj	5712 Oct 19 09:20	28° $\text{Q}$ 54'13	-4°00'49	minimum elong	5713 Oct 01 17:05	11° $\text{Q}$ 16'30	4°51'03
minimum elong	5712 Oct 19 15:47	28° $\text{Q}$ 40'05	3°59'00	morning rise	5713 Oct 09 07:13	6° $\text{Q}$ 55'13	
morning rise	5712 Oct 26 18:18	23° $\text{Q}$ 59'50		direct	5713 Oct 11 15:28	6° $\text{Q}$ 36'10	
direct	5712 Oct 29 01:24	23° $\text{Q}$ 38'08		morning max el	5713 Oct 19 13:08	10° $\text{Q}$ 26'30	18°23'18
asc. node	5712 Nov 01 18:36	24° $\text{Q}$ 37'27		asc. node	5713 Oct 19 15:40	10° $\text{Q}$ 32'39	
morning max el	5712 Nov 05 03:34	27° $\text{Q}$ 11'25	17°56'24		5713 Nov 01 09:38	0° $\text{ml}$	
	5712 Nov 07 15:36	0° $\text{ml}$		morning set	5713 Nov 04 12:03	5° $\text{ml}$ 53'00	
morning set	5712 Nov 20 21:16	21° $\text{ml}$ 56'47					
	5712 Nov 25 07:09	0° $\text{x}$		superior conj	5713 Nov 13 14:22	23° $\text{ml}$ 05'39	1°14'03
superior conj	5712 Dec 01 05:57	10° $\text{x}$ 35'23	0°45'54	minimum elong	5713 Nov 13 18:04	23° $\text{ml}$ 22'41	1°13'39
minimum elong	5712 Dec 01 09:27	10° $\text{x}$ 50'40	0°45'25		5713 Nov 17 09:54	0° $\text{x}$	
desc. node	5712 Dec 07 19:27	21° $\text{x}$ 45'27		max. Earth dist.	5713 Nov 21 02:32	6° $\text{x}$ 27'40	1.40578 AU
max. Earth dist.	5712 Dec 08 18:23	23° $\text{x}$ 20'18	1.42540 AU	desc. node	5713 Nov 24 16:28	12° $\text{x}$ 31'03	
	5712 Dec 12 20:45	0° $\text{Z}$		evening rise	5713 Nov 25 14:00	14° $\text{x}$ 00'19	
evening rise	5712 Dec 15 00:14	3° $\text{Z}$ 24'47			5713 Dec 05 16:47	0° $\text{Z}$	
	5713 Jan 01 18:12	0° $\text{Z}$			5713 Dec 27 22:27	0° $\text{Z}$	
evening max el	5713 Jan 16 10:42	18° $\text{Z}$ 34'31	22°11'00	evening max el	5713 Dec 30 01:49	2° $\text{Z}$ 14'44	23°30'44
retrograde	5713 Jan 25 23:00	24° $\text{Z}$ 13'50		retrograde	5714 Jan 09 17:01	8° $\text{Z}$ 31'36	
asc. node	5713 Jan 28 17:49	23° $\text{Z}$ 33'06		evening set	5714 Jan 14 17:58	6° $\text{Z}$ 26'25	
evening set	5713 Jan 30 11:41	22° $\text{Z}$ 24'01		asc. node	5714 Jan 15 14:52	5° $\text{Z}$ 38'39	
inferior conj	5713 Feb 04 19:57	16° $\text{Z}$ 03'14	2°11'22	min. Earth dist.	5714 Jan 19 15:29	0° $\text{Z}$ 43'31	0.68091 AU
minimum elong	5713 Feb 04 17:38	16° $\text{Z}$ 11'19	2°10'38	inferior conj	5714 Jan 20 03:59	0° $\text{Z}$ 00'41	1°28'37
min. Earth dist.	5713 Feb 04 18:40	16° $\text{Z}$ 07'43	0.68149 AU	minimum elong	5714 Jan 20 02:07	0° $\text{Z}$ 07'03	1°27'55
morning rise	5713 Feb 09 23:25	9° $\text{Z}$ 52'39			5714 Jan 20 04:11	30° $\text{R}$ $\text{Z}$	
direct	5713 Feb 14 17:58	7° $\text{Z}$ 51'38		morning rise	5714 Jan 25 10:13	23° $\text{Z}$ 54'49	
morning max el	5713 Feb 24 06:03	13° $\text{Z}$ 27'18	22°19'45	direct	5714 Jan 29 14:45	22° $\text{Z}$ 16'33	
desc. node	5713 Mar 05 18:43	24° $\text{Z}$ 53'39		morning max el	5714 Feb 06 22:42	27° $\text{Z}$ 04'35	20°57'46
	5713 Mar 09 12:07	0° $\text{X}$			5714 Feb 09 15:29	0° $\text{Z}$	
	5713 Mar 29 07:20	0° $\text{Y}$		desc. node	5714 Feb 20 15:44	14° $\text{Z}$ 36'46	
morning set	5713 Mar 29 18:34	0° $\text{Y}$ 45'36			5714 Mar 03 00:54	0° $\text{X}$	
max. Earth dist.	5713 Apr 03 22:45	9° $\text{Y}$ 19'51	1.40771 AU	morning set	5714 Mar 09 03:54	9° $\text{X}$ 27'05	
				max. Earth dist.	5714 Mar 17 02:09	22° $\text{X}$ 05'54	1.42770 AU
superior conj	5713 Apr 11 17:54	22° $\text{Y}$ 53'29	-1°54'58		5714 Mar 21 21:02	0° $\text{Y}$	

superior conj	5714 Mar 24 03:16	3° $\Upsilon$ 48'28	-2°08'20		5715 Mar 14 09:32	0° $\Upsilon$	
minimum elong	5714 Mar 24 05:16	3° $\Upsilon$ 57'00	2°08'18	evening rise	5715 Mar 17 22:02	5° $\Upsilon$ 57'42	
evening rise	5714 Apr 04 20:24	24° $\Upsilon$ 18'42		asc. node	5715 Mar 31 11:10	28° $\Upsilon$ 07'58	
	5714 Apr 08 00:50	0° $\text{B}$			5715 Apr 01 19:36	0° $\text{B}$	
asc. node	5714 Apr 13 14:07	9° $\text{B}$ 36'09		evening max el	5715 Apr 05 03:52	3° $\text{B}$ 56'06	18°13'02
evening max el	5714 Apr 21 14:52	20° $\text{B}$ 38'04	18°06'31	retrograde	5715 Apr 11 13:31	7° $\text{B}$ 19'55	
retrograde	5714 Apr 28 05:13	24° $\text{B}$ 00'48		evening set	5715 Apr 14 11:35	6° $\text{B}$ 35'06	
evening set	5714 Apr 30 20:52	23° $\text{B}$ 28'01		inferior conj	5715 Apr 20 12:57	1° $\text{B}$ 16'38	3°24'23
inferior conj	5714 May 07 10:28	18° $\text{B}$ 28'53	2°57'57	minimum elong	5715 Apr 20 14:18	1° $\text{B}$ 12'56	3°24'15
minimum elong	5714 May 07 13:18	18° $\text{B}$ 21'59	2°57'22		5715 Apr 21 16:39	30° $\text{R}\Upsilon$	
min. Earth dist.	5714 May 10 14:30	15° $\text{B}$ 25'01	0.61163 AU	min. Earth dist.	5715 Apr 23 03:49	28° $\Upsilon$ 24'27	0.63267 AU
morning rise	5714 May 14 03:39	12° $\text{B}$ 32'26		morning rise	5715 Apr 26 15:51	25° $\Upsilon$ 08'21	
desc. node	5714 May 19 14:58	10° $\text{B}$ 20'55		direct	5715 May 03 11:55	22° $\Upsilon$ 29'32	
direct	5714 May 20 20:45	10° $\text{B}$ 16'23		desc. node	5715 May 06 12:00	22° $\Upsilon$ 56'55	
morning max el	5714 Jun 04 02:25	18° $\text{B}$ 14'12	27°50'50		5715 May 16 22:07	0° $\text{B}$	
	5714 Jun 13 22:59	0° $\text{II}$		morning max el	5715 May 17 10:06	0° $\text{B}$ 29'41	27°46'25
	5714 Jul 02 04:36	0° $\text{E}$			5715 Jun 08 00:39	0° $\text{II}$	
morning set	5714 Jul 07 00:14	9° $\text{E}$ 35'15		morning set	5715 Jun 20 22:02	23° $\text{II}$ 37'18	
asc. node	5714 Jul 10 13:26	17° $\text{E}$ 03'14			5715 Jun 24 01:00	0° $\text{E}$	
max. Earth dist.	5714 Jul 12 22:28	22° $\text{E}$ 11'55	1.32064 AU	max. Earth dist.	5715 Jun 26 03:10	4° $\text{E}$ 23'28	1.32699 AU
				asc. node	5715 Jun 27 10:28	7° $\text{E}$ 10'24	
superior conj	5714 Jul 14 08:23	25° $\text{E}$ 17'38	0°38'32				
minimum elong	5714 Jul 14 06:45	25° $\text{E}$ 08'39	0°38'11	superior conj	5715 Jun 28 16:10	9° $\text{E}$ 50'14	0°12'49
	5714 Jul 16 11:44	0° $\Omega$		minimum elong	5715 Jun 28 15:33	9° $\text{E}$ 46'54	0°12'39
evening rise	5714 Jul 21 03:55	10° $\Omega$ 10'08		behind sun begin	5715 Jun 28 12:19	9° $\text{E}$ 29'24	
	5714 Jul 31 06:34	0° $\text{M}$		behind sun end	5715 Jun 28 18:48	10° $\text{E}$ 04'25	
desc. node	5714 Aug 15 14:12	21° $\text{M}$ 18'07		evening rise	5715 Jul 05 15:45	24° $\text{E}$ 55'55	
evening max el	5714 Aug 16 09:01	22° $\text{M}$ 04'12	24°58'59		5715 Jul 08 01:48	0° $\Omega$	
retrograde	5714 Aug 30 06:46	29° $\text{M}$ 05'30			5715 Jul 26 12:39	0° $\text{M}$	
evening set	5714 Sep 04 19:03	27° $\text{M}$ 56'41		evening max el	5715 Jul 28 21:17	2° $\text{M}$ 27'45	23°22'54
min. Earth dist.	5714 Sep 09 20:27	25° $\text{M}$ 12'49	0.57260 AU	desc. node	5715 Aug 02 11:15	6° $\text{M}$ 13'12	
inferior conj	5714 Sep 12 18:05	23° $\text{M}$ 17'37	-5°19'47	retrograde	5715 Aug 11 09:48	9° $\text{M}$ 14'16	
minimum elong	5714 Sep 12 19:36	23° $\text{M}$ 15'05	5°19'43	evening set	5715 Aug 15 10:24	8° $\text{M}$ 38'47	
morning rise	5714 Sep 20 22:26	19° $\text{M}$ 08'01		min. Earth dist.	5715 Aug 22 06:41	5° $\text{M}$ 28'46	0.55690 AU
direct	5714 Sep 23 11:50	18° $\text{M}$ 49'09		inferior conj	5715 Aug 24 04:44	4° $\text{M}$ 20'59	-5°07'04
morning max el	5714 Oct 02 13:47	23° $\text{M}$ 06'33	19°11'36	minimum elong	5715 Aug 23 23:37	4° $\text{M}$ 28'33	5°06'28
asc. node	5714 Oct 06 12:43	27° $\text{M}$ 36'54		morning rise	5715 Sep 01 15:11	0° $\text{M}$ 28'27	
	5714 Oct 08 05:40	0° $\text{A}$		direct	5715 Sep 04 12:51	0° $\text{M}$ 08'00	
morning set	5714 Oct 19 11:56	20° $\text{A}$ 14'24		morning max el	5715 Sep 15 02:53	5° $\text{M}$ 03'27	20°21'56
	5714 Oct 24 09:34	0° $\text{M}$		asc. node	5715 Sep 23 09:46	15° $\text{M}$ 35'32	
					5715 Oct 01 08:01	0° $\text{A}$	
superior conj	5714 Oct 27 16:39	6° $\text{M}$ 27'34	1°32'09	morning set	5715 Oct 03 17:51	4° $\text{A}$ 52'25	
minimum elong	5714 Oct 27 19:14	6° $\text{M}$ 40'03	1°31'58				
max. Earth dist.	5714 Nov 03 07:56	18° $\text{M}$ 54'45	1.38458 AU	superior conj	5715 Oct 11 07:55	20° $\text{A}$ 27'18	1°41'19
evening rise	5714 Nov 07 02:31	25° $\text{M}$ 37'01		minimum elong	5715 Oct 11 08:58	20° $\text{A}$ 32'39	1°41'17
	5714 Nov 09 15:50	0° $\text{J}$			5715 Oct 16 03:37	0° $\text{M}$	
desc. node	5714 Nov 11 13:29	3° $\text{J}$ 11'04		max. Earth dist.	5715 Oct 16 14:43	0° $\text{M}$ 53'27	1.36429 AU
	5714 Nov 29 07:59	0° $\text{B}$		evening rise	5715 Oct 20 11:42	8° $\text{M}$ 09'47	
evening max el	5714 Dec 12 14:59	15° $\text{B}$ 58'22	24°48'58	desc. node	5715 Oct 29 10:31	23° $\text{M}$ 41'11	
retrograde	5714 Dec 24 07:00	22° $\text{B}$ 45'25			5715 Nov 02 09:20	0° $\text{J}$	
evening set	5714 Dec 29 21:16	20° $\text{B}$ 25'41		evening max el	5715 Nov 25 03:37	29° $\text{J}$ 42'32	25°58'38
asc. node	5715 Jan 02 11:56	16° $\text{B}$ 30'53			5715 Nov 25 10:52	0° $\text{B}$	
min. Earth dist.	5715 Jan 03 10:47	15° $\text{B}$ 17'00	0.67666 AU	retrograde	5715 Dec 07 16:14	6° $\text{B}$ 50'05	
inferior conj	5715 Jan 04 10:18	13° $\text{B}$ 59'16	0°38'53	evening set	5715 Dec 13 19:53	4° $\text{B}$ 18'20	
minimum elong	5715 Jan 04 09:22	14° $\text{B}$ 02'21	0°38'31		5715 Dec 17 21:16	30° $\text{R}\text{J}$	
morning rise	5715 Jan 09 21:38	8° $\text{B}$ 00'07		min. Earth dist.	5715 Dec 18 02:17	29° $\text{J}$ 44'35	0.66877 AU
direct	5715 Jan 13 13:18	6° $\text{B}$ 43'26		inferior conj	5715 Dec 19 13:03	27° $\text{J}$ 55'58	-0°16'58
morning max el	5715 Jan 20 23:17	10° $\text{B}$ 53'46	19°48'01	minimum elong	5715 Dec 19 13:30	27° $\text{J}$ 54'34	0°16'44
greatest brilliancy	5715 Feb 03 01:26	28° $\text{B}$ 02'34	-0.6m	asc. node	5715 Dec 20 09:00	26° $\text{J}$ 54'04	
	5715 Feb 04 09:12	0° $\approx$		morning rise	5715 Dec 25 07:38	22° $\text{J}$ 05'45	
desc. node	5715 Feb 07 12:46	4° $\approx$ 42'52		direct	5715 Dec 28 12:02	21° $\text{J}$ 07'49	
morning set	5715 Feb 16 00:16	17° $\approx$ 39'21		morning max el	5716 Jan 04 07:30	24° $\text{J}$ 52'30	18°53'19
	5715 Feb 23 22:39	0° $\text{H}$			5716 Jan 08 16:33	0° $\text{B}$	
max. Earth dist.	5715 Feb 27 13:28	5° $\text{H}$ 43'10	1.44299 AU	desc. node	5716 Jan 25 09:47	25° $\text{B}$ 05'40	
				morning set	5716 Jan 26 08:41	26° $\text{B}$ 35'13	
superior conj	5715 Mar 04 11:12	13° $\text{H}$ 35'22	-2°05'59		5716 Jan 28 13:04	0° $\approx$	
minimum elong	5715 Mar 04 07:10	13° $\text{H}$ 19'03	2°05'51	max. Earth dist.	5716 Feb 10 06:11	19° $\approx$ 53'44	1.45182 AU

superior conj	5716 Feb 11 21:21	22° $\approx$ 27'42	-1°43'54	minimum elong	5717 Jan 20 17:18	0° $\approx$ 39'43	1°03'40
minimum elong	5716 Feb 11 12:13	21° $\approx$ 51'46	1°43'06	max. Earth dist.	5717 Jan 23 01:16	4° $\approx$ 19'32	1.45333 AU
	5716 Feb 16 15:52	0° $\mathbb{X}$		evening rise	5717 Feb 06 05:25	26° $\approx$ 28'03	
evening rise	5716 Feb 27 01:01	16° $\mathbb{X}$ 39'11			5717 Feb 08 11:43	0° $\mathbb{X}$	
	5716 Mar 06 06:55	0° $\mathbb{Y}$		greatest brilliancy	5717 Feb 17 19:53	14° $\mathbb{X}$ 28'18	-0.7m
asc. node	5716 Mar 17 08:13	15° $\mathbb{Y}$ 58'42			5717 Mar 01 02:52	0° $\mathbb{Y}$	
evening max el	5716 Mar 18 15:37	17° $\mathbb{Y}$ 23'24	18°37'54	evening max el	5717 Mar 01 23:58	0° $\mathbb{Y}$ 55'57	19°19'57
retrograde	5716 Mar 25 05:42	21° $\mathbb{Y}$ 01'15		asc. node	5717 Mar 04 05:16	2° $\mathbb{Y}$ 56'40	
evening set	5716 Mar 28 10:15	20° $\mathbb{Y}$ 03'35		retrograde	5717 Mar 09 02:14	4° $\mathbb{Y}$ 58'41	
inferior conj	5716 Apr 03 03:09	14° $\mathbb{Y}$ 27'31	3°31'06	evening set	5717 Mar 12 14:03	3° $\mathbb{Y}$ 47'23	
minimum elong	5716 Apr 03 02:58	14° $\mathbb{Y}$ 28'06	3°31'06		5717 Mar 16 10:29	30° $\mathbb{R}$ $\mathbb{X}$	
min. Earth dist.	5716 Apr 05 02:38	12° $\mathbb{Y}$ 04'03	0.65071 AU	inferior conj	5717 Mar 18 01:37	27° $\mathbb{X}$ 55'44	3°22'43
morning rise	5716 Apr 08 19:05	8° $\mathbb{Y}$ 13'42		minimum elong	5717 Mar 18 00:15	28° $\mathbb{X}$ 00'12	3°22'35
direct	5716 Apr 15 10:48	5° $\mathbb{Y}$ 24'44		min. Earth dist.	5717 Mar 19 09:54	26° $\mathbb{X}$ 10'57	0.66482 AU
desc. node	5716 Apr 22 09:03	7° $\mathbb{Y}$ 50'18		morning rise	5717 Mar 23 10:06	21° $\mathbb{X}$ 40'17	
morning max el	5716 Apr 28 20:11	13° $\mathbb{Y}$ 17'02	27°07'40	direct	5717 Mar 29 16:15	18° $\mathbb{X}$ 53'54	
	5716 May 12 07:24	0° $\mathbb{Z}$		desc. node	5717 Apr 09 06:04	24° $\mathbb{X}$ 28'01	
	5716 May 30 15:40	0° $\mathbb{I}$		morning max el	5717 Apr 11 06:06	26° $\mathbb{X}$ 23'58	26°02'09
morning set	5716 Jun 03 10:25	7° $\mathbb{I}$ 08'18			5717 Apr 14 14:04	0° $\mathbb{Y}$	
max. Earth dist.	5716 Jun 07 22:46	16° $\mathbb{I}$ 05'58	1.33794 AU		5717 May 05 21:26	0° $\mathbb{Z}$	
				morning set	5717 May 17 09:35	19° $\mathbb{Z}$ 57'40	
superior conj	5716 Jun 11 18:54	24° $\mathbb{I}$ 03'02	-0°15'41	max. Earth dist.	5717 May 21 06:52	27° $\mathbb{Z}$ 18'46	1.35357 AU
minimum elong	5716 Jun 11 19:44	24° $\mathbb{I}$ 07'24	0°15'32		5717 May 22 16:01	0° $\mathbb{I}$	
behind sun begin	5716 Jun 11 18:22	24° $\mathbb{I}$ 00'14					
behind sun end	5716 Jun 11 21:05	24° $\mathbb{I}$ 14'35		superior conj	5717 May 26 14:09	7° $\mathbb{I}$ 49'41	-0°45'44
asc. node	5716 Jun 13 07:29	27° $\mathbb{I}$ 16'10		minimum elong	5717 May 26 16:42	8° $\mathbb{I}$ 02'40	0°45'16
	5716 Jun 14 14:19	0° $\mathbb{E}$		asc. node	5717 May 31 04:30	17° $\mathbb{I}$ 16'52	
evening rise	5716 Jun 19 02:29	9° $\mathbb{E}$ 33'45		evening rise	5717 Jun 03 10:04	23° $\mathbb{I}$ 57'43	
	5716 Jun 29 19:25	0° $\mathbb{O}$			5717 Jun 06 09:36	0° $\mathbb{E}$	
evening max el	5716 Jul 09 13:16	12° $\mathbb{O}$ 51'14	21°46'53	evening max el	5717 Jun 21 16:16	23° $\mathbb{E}$ 45'45	20°23'37
desc. node	5716 Jul 19 08:17	18° $\mathbb{O}$ 46'14		retrograde	5717 Jul 02 14:53	29° $\mathbb{E}$ 07'39	
retrograde	5716 Jul 22 02:04	19° $\mathbb{O}$ 03'57		evening set	5717 Jul 04 14:10	28° $\mathbb{E}$ 57'57	
evening set	5716 Jul 24 17:38	18° $\mathbb{O}$ 48'09		desc. node	5717 Jul 06 05:18	28° $\mathbb{E}$ 36'06	
min. Earth dist.	5716 Aug 02 16:29	14° $\mathbb{O}$ 57'57	0.54845 AU	inferior conj	5717 Jul 13 18:40	25° $\mathbb{E}$ 00'27	-2°14'44
inferior conj	5716 Aug 03 00:44	14° $\mathbb{O}$ 46'24	-4°02'05	minimum elong	5717 Jul 13 12:25	25° $\mathbb{E}$ 09'34	2°12'30
minimum elong	5716 Aug 02 15:46	14° $\mathbb{O}$ 58'58	3°59'45	min. Earth dist.	5717 Jul 15 03:57	24° $\mathbb{E}$ 11'56	0.54943 AU
morning rise	5716 Aug 11 15:17	10° $\mathbb{O}$ 55'31		morning rise	5717 Jul 22 09:38	20° $\mathbb{E}$ 50'42	
direct	5716 Aug 14 23:38	10° $\mathbb{O}$ 30'58		direct	5717 Jul 26 09:45	20° $\mathbb{E}$ 16'02	
morning max el	5716 Aug 27 03:58	16° $\mathbb{O}$ 14'07	21°52'09	morning max el	5717 Aug 08 20:04	26° $\mathbb{E}$ 47'34	23°34'53
	5716 Sep 06 19:12	0° $\mathbb{P}$			5717 Aug 11 22:41	0° $\mathbb{O}$	
asc. node	5716 Sep 09 06:47	4° $\mathbb{P}$ 15'21		asc. node	5717 Aug 27 03:48	23° $\mathbb{O}$ 26'15	
morning set	5716 Sep 17 03:27	19° $\mathbb{P}$ 39'51			5717 Aug 30 10:48	0° $\mathbb{P}$	
	5716 Sep 22 00:44	0° $\mathbb{U}$		morning set	5717 Sep 01 14:51	4° $\mathbb{P}$ 31'31	
superior conj	5716 Sep 24 08:12	4° $\mathbb{U}$ 52'49	1°42'52	superior conj	5717 Sep 08 14:30	19° $\mathbb{P}$ 34'57	1°37'53
minimum elong	5716 Sep 24 07:51	4° $\mathbb{U}$ 50'56	1°42'51	minimum elong	5717 Sep 08 13:04	19° $\mathbb{P}$ 27'11	1°37'47
max. Earth dist.	5716 Sep 28 03:44	12° $\mathbb{U}$ 45'41	1.34687 AU	max. Earth dist.	5717 Sep 11 01:34	24° $\mathbb{P}$ 50'58	1.33349 AU
evening rise	5716 Oct 02 13:27	21° $\mathbb{U}$ 28'15			5717 Sep 13 12:33	0° $\mathbb{U}$	
	5716 Oct 07 03:16	0° $\mathbb{M}$		evening rise	5717 Sep 16 03:48	5° $\mathbb{U}$ 21'53	
desc. node	5716 Oct 15 07:33	13° $\mathbb{M}$ 55'46			5717 Sep 29 18:58	0° $\mathbb{M}$	
	5716 Oct 26 05:28	0° $\mathbb{X}$		desc. node	5717 Oct 02 04:34	3° $\mathbb{M}$ 47'40	
evening max el	5716 Nov 06 16:23	13° $\mathbb{X}$ 21'02	26°52'27	evening max el	5717 Oct 20 04:34	26° $\mathbb{M}$ 43'47	27°23'05
retrograde	5716 Nov 19 20:10	20° $\mathbb{X}$ 38'36			5717 Oct 24 00:12	0° $\mathbb{X}$	
evening set	5716 Nov 26 11:49	17° $\mathbb{X}$ 59'54		retrograde	5717 Nov 02 18:00	4° $\mathbb{X}$ 02'14	
min. Earth dist.	5716 Nov 30 11:45	14° $\mathbb{X}$ 01'18	0.65728 AU	evening set	5717 Nov 09 18:32	1° $\mathbb{X}$ 24'22	
inferior conj	5716 Dec 02 10:10	11° $\mathbb{X}$ 46'45	-1°17'47		5717 Nov 11 11:18	30° $\mathbb{R}$ $\mathbb{M}$	
minimum elong	5716 Dec 02 12:23	11° $\mathbb{X}$ 40'19	1°16'50	min. Earth dist.	5717 Nov 13 13:01	27° $\mathbb{M}$ 59'24	0.64240 AU
asc. node	5716 Dec 06 06:02	7° $\mathbb{X}$ 45'09		inferior conj	5717 Nov 15 23:13	25° $\mathbb{M}$ 25'51	-2°21'51
morning rise	5716 Dec 08 13:54	6° $\mathbb{X}$ 08'01		minimum elong	5717 Nov 16 03:24	25° $\mathbb{M}$ 14'47	2°20'12
direct	5716 Dec 11 09:03	5° $\mathbb{X}$ 25'03		morning rise	5717 Nov 22 13:41	20° $\mathbb{M}$ 01'30	
morning max el	5716 Dec 17 21:19	8° $\mathbb{X}$ 55'11	18°14'57	asc. node	5717 Nov 23 03:04	19° $\mathbb{M}$ 48'59	
	5717 Jan 01 14:09	0° $\mathbb{Z}$		direct	5717 Nov 25 01:58	19° $\mathbb{M}$ 29'31	
morning set	5717 Jan 05 21:07	6° $\mathbb{Z}$ 57'09		morning max el	5717 Dec 01 13:56	22° $\mathbb{M}$ 54'22	17°53'35
desc. node	5717 Jan 11 06:49	15° $\mathbb{Z}$ 40'23			5717 Dec 07 04:21	0° $\mathbb{X}$	
	5717 Jan 20 07:12	0° $\approx$		morning set	5717 Dec 18 14:04	18° $\mathbb{X}$ 42'42	
					5717 Dec 25 07:04	0° $\mathbb{Z}$	
superior conj	5717 Jan 21 01:03	1° $\approx$ 10'13	-1°04'40	desc. node	5717 Dec 29 03:50	6° $\mathbb{Z}$ 22'25	

superior conj	5717 Dec 31 18:05	10° $\text{Z}$ 35'24	-0°18'11	desc. node	5718 Dec 16 00:51	27° $\text{Z}$ 08'34	
minimum elong	5717 Dec 31 15:58	10° $\text{Z}$ 26'52	0°17'51		5718 Dec 17 18:32	0° $\text{Z}$	
max. Earth dist.	5718 Jan 05 20:05	18° $\text{Z}$ 43'23	1.44752 AU	max. Earth dist.	5718 Dec 19 12:15	2° $\text{Z}$ 49'49	1.43508 AU
	5718 Jan 13 00:55	0° $\approx$		evening rise	5718 Dec 27 06:12	15° $\text{Z}$ 06'37	
evening rise	5718 Jan 16 18:18	5° $\approx$ 44'49			5719 Jan 06 01:33	0° $\approx$	
	5718 Feb 01 21:43	0° $\text{H}$		evening max el	5719 Jan 27 01:22	28° $\approx$ 06'08	21°27'00
evening max el	5718 Feb 13 03:24	14° $\text{H}$ 30'24	20°17'21		5719 Jan 29 01:24	0° $\text{H}$	
asc. node	5718 Feb 19 02:18	18° $\text{H}$ 47'04		retrograde	5719 Feb 04 22:11	3° $\text{H}$ 21'29	
retrograde	5718 Feb 21 00:25	19° $\text{H}$ 06'39		asc. node	5719 Feb 05 23:19	3° $\text{H}$ 15'39	
evening set	5718 Feb 24 20:45	17° $\text{H}$ 40'52		evening set	5719 Feb 09 04:34	1° $\text{H}$ 40'26	
inferior conj	5718 Mar 02 05:30	11° $\text{H}$ 35'44	3°02'29		5719 Feb 10 22:46	30° $\text{R}$ $\approx$	
minimum elong	5718 Mar 02 03:23	11° $\text{H}$ 42'56	3°02'04	inferior conj	5719 Feb 14 12:31	25° $\approx$ 24'31	2°32'30
min. Earth dist.	5718 Mar 02 23:43	10° $\text{H}$ 33'52	0.67464 AU	minimum elong	5719 Feb 14 10:09	25° $\approx$ 32'46	2°31'51
morning rise	5718 Mar 07 09:48	5° $\text{H}$ 21'07		min. Earth dist.	5719 Feb 14 18:00	25° $\approx$ 05'31	0.68020 AU
direct	5718 Mar 13 03:10	2° $\text{H}$ 47'40		morning rise	5719 Feb 19 15:33	19° $\approx$ 12'13	
morning max el	5718 Mar 24 14:47	9° $\text{H}$ 39'58	24°39'38	direct	5719 Feb 24 18:32	16° $\approx$ 58'28	
desc. node	5718 Mar 27 03:05	12° $\text{H}$ 20'48		morning max el	5719 Mar 06 23:58	23° $\approx$ 02'27	23°10'26
	5718 Apr 09 16:32	0° $\text{Y}$			5719 Mar 13 02:36	0° $\text{H}$	
	5718 Apr 28 13:09	0° $\text{B}$		desc. node	5719 Mar 14 00:07	1° $\text{H}$ 07'36	
morning set	5718 Apr 29 14:29	1° $\text{B}$ 50'59			5719 Apr 03 01:27	0° $\text{Y}$	
max. Earth dist.	5718 May 03 05:14	8° $\text{B}$ 20'04	1.37326 AU	morning set	5719 Apr 10 19:14	12° $\text{Y}$ 33'07	
				max. Earth dist.	5719 Apr 15 00:53	19° $\text{Y}$ 45'49	1.39520 AU
superior conj	5718 May 09 22:47	21° $\text{B}$ 01'39	-1°15'33		5719 Apr 20 19:12	0° $\text{B}$	
minimum elong	5718 May 10 03:01	21° $\text{B}$ 22'14	1°14'54				
	5718 May 14 11:58	0° $\text{II}$		superior conj	5719 Apr 22 16:50	3° $\text{B}$ 29'08	-1°42'23
asc. node	5718 May 18 01:32	7° $\text{II}$ 08'03		minimum elong	5719 Apr 22 22:00	3° $\text{B}$ 52'59	1°41'49
evening rise	5718 May 18 12:08	8° $\text{II}$ 00'57		evening rise	5719 May 02 05:48	21° $\text{B}$ 35'51	
	5718 May 30 20:10	0° $\text{E}$		asc. node	5719 May 04 22:34	26° $\text{B}$ 45'03	
evening max el	5718 Jun 04 07:54	5° $\text{E}$ 22'46	19°19'12		5719 May 06 16:11	0° $\text{II}$	
retrograde	5718 Jun 13 13:08	9° $\text{E}$ 53'30		evening max el	5719 May 18 09:56	17° $\text{II}$ 39'08	18°35'09
evening set	5718 Jun 15 11:52	9° $\text{E}$ 42'18		retrograde	5719 May 26 05:42	21° $\text{II}$ 31'07	
desc. node	5718 Jun 23 02:17	6° $\text{E}$ 10'40		evening set	5719 May 28 10:21	21° $\text{II}$ 13'53	
inferior conj	5718 Jun 24 00:41	5° $\text{E}$ 34'05	-0°16'44	inferior conj	5719 Jun 05 03:09	16° $\text{II}$ 46'45	1°22'31
minimum elong	5718 Jun 23 23:58	5° $\text{E}$ 35'17	0°16'29	minimum elong	5719 Jun 05 05:55	16° $\text{II}$ 41'25	1°21'34
min. Earth dist.	5718 Jun 26 17:50	3° $\text{E}$ 47'25	0.55977 AU	min. Earth dist.	5719 Jun 08 11:38	14° $\text{II}$ 12'56	0.57734 AU
morning rise	5718 Jul 02 09:10	0° $\text{E}$ 51'08		desc. node	5719 Jun 09 23:20	13° $\text{II}$ 10'24	
	5718 Jul 06 01:48	30° $\text{R}$ $\text{II}$		morning rise	5719 Jun 12 22:11	11° $\text{II}$ 28'14	
direct	5718 Jul 07 06:20	29° $\text{II}$ 56'43		direct	5719 Jun 18 16:51	10° $\text{II}$ 04'12	
	5718 Jul 08 10:51	0° $\text{E}$		morning max el	5719 Jul 03 02:01	17° $\text{II}$ 40'40	26°41'58
morning max el	5718 Jul 21 09:20	7° $\text{E}$ 06'44	25°16'55		5719 Jul 13 07:33	0° $\text{E}$	
	5718 Aug 07 03:52	0° $\Omega$			5719 Jul 30 13:02	0° $\Omega$	
asc. node	5718 Aug 14 00:49	13° $\Omega$ 00'19		asc. node	5719 Jul 31 21:51	2° $\Omega$ 50'07	
morning set	5718 Aug 17 02:28	19° $\Omega$ 22'51		morning set	5719 Aug 01 12:38	4° $\Omega$ 07'55	
	5718 Aug 21 23:59	0° $\text{np}$					
superior conj	5718 Aug 24 00:29	4° $\text{np}$ 26'31	1°27'17	superior conj	5719 Aug 08 12:08	19° $\Omega$ 20'06	1°11'44
minimum elong	5718 Aug 23 22:24	4° $\text{np}$ 15'00	1°27'02	minimum elong	5719 Aug 08 09:51	19° $\Omega$ 07'25	1°11'22
max. Earth dist.	5718 Aug 25 07:11	7° $\text{np}$ 14'32	1.32441 AU	max. Earth dist.	5719 Aug 08 17:24	19° $\Omega$ 49'14	1.31959 AU
evening rise	5718 Aug 31 03:16	19° $\text{np}$ 41'06		evening rise	5719 Aug 13 08:53	0° $\text{np}$	
	5718 Sep 05 07:54	0° $\Omega$			5719 Aug 15 08:58	4° $\text{np}$ 16'21	
desc. node	5718 Sep 19 01:34	23° $\Omega$ 07'42		desc. node	5719 Aug 29 01:32	0° $\Omega$	
	5718 Sep 24 01:09	0° $\text{ml}$		evening max el	5719 Sep 05 22:34	11° $\Omega$ 42'04	
evening max el	5718 Oct 02 14:13	9° $\text{ml}$ 38'18	27°24'13	retrograde	5719 Sep 14 18:22	21° $\Omega$ 50'12	26°52'03
retrograde	5718 Oct 16 08:52	16° $\text{ml}$ 52'32		evening set	5719 Sep 28 15:51	28° $\Omega$ 59'51	
evening set	5718 Oct 23 12:49	14° $\text{ml}$ 25'38		min. Earth dist.	5719 Oct 05 14:25	26° $\Omega$ 55'32	
min. Earth dist.	5718 Oct 27 04:13	11° $\text{ml}$ 29'31	0.62452 AU	inferior conj	5719 Oct 09 08:27	24° $\Omega$ 17'53	0.60440 AU
inferior conj	5718 Oct 30 01:23	8° $\text{ml}$ 46'43	-3°25'55	minimum elong	5719 Oct 12 13:15	21° $\Omega$ 39'29	-4°24'27
minimum elong	5718 Oct 30 07:18	8° $\text{ml}$ 32'47	3°23'59	morning rise	5719 Oct 12 19:41	21° $\Omega$ 26'08	4°22'55
morning rise	5718 Nov 06 03:33	3° $\text{ml}$ 40'12		direct	5719 Oct 20 03:00	16° $\Omega$ 54'19	
direct	5718 Nov 08 11:44	3° $\text{ml}$ 15'33		asc. node	5719 Oct 22 10:18	16° $\Omega$ 33'55	
asc. node	5718 Nov 10 00:05	3° $\text{ml}$ 26'11		morning max el	5719 Oct 27 21:08	18° $\Omega$ 34'02	
morning max el	5718 Nov 15 06:24	6° $\text{ml}$ 43'16	17°50'00		5719 Oct 29 19:27	20° $\Omega$ 12'57	18°05'23
	5718 Nov 30 08:38	0° $\text{Z}$		morning set	5719 Nov 06 02:23	0° $\text{ml}$	
morning set	5718 Dec 01 05:34	1° $\text{Z}$ 33'15			5719 Nov 14 13:16	15° $\text{ml}$ 09'08	
					5719 Nov 22 14:06	0° $\text{Z}$	
superior conj	5718 Dec 12 12:08	21° $\text{Z}$ 14'17	0°24'59	superior conj	5719 Nov 24 07:48	3° $\text{Z}$ 07'14	0°59'07
minimum elong	5718 Dec 12 14:27	21° $\text{Z}$ 24'04	0°24'40	minimum elong	5719 Nov 24 11:38	3° $\text{Z}$ 24'17	0°58'38



max. Earth dist.	5719 Dec 01 23:37	16° $\text{♄}$ 22'07	1.41741 AU	minimum elong	5720 Nov 06 03:47	16° $\text{♄}$ 16'40	1°22'35
desc. node	5719 Dec 02 21:51	17° $\text{♄}$ 54'56		max. Earth dist.	5720 Nov 13 05:54	29° $\text{♄}$ 10'07	1.39675 AU
evening rise	5719 Dec 07 07:46	25° $\text{♄}$ 07'52			5720 Nov 13 17:17	0° $\text{♄}$	
	5719 Dec 10 09:16	0° $\text{♄}$		evening rise	5720 Nov 17 07:06	6° $\text{♄}$ 08'29	
	5719 Dec 30 22:52	0° $\text{♄}$		desc. node	5720 Nov 18 18:52	8° $\text{♄}$ 38'13	
evening max el	5720 Jan 09 18:25	11° $\text{♄}$ 43'32	22°44'39		5720 Dec 02 11:25	0° $\text{♄}$	
retrograde	5720 Jan 19 18:02	17° $\text{♄}$ 39'17		evening max el	5720 Dec 22 08:13	25° $\text{♄}$ 23'56	24°04'39
asc. node	5720 Jan 23 20:22	16° $\text{♄}$ 12'44			5720 Dec 27 20:52	0° $\text{♄}$	
evening set	5720 Jan 24 11:53	15° $\text{♄}$ 42'37		retrograde	5721 Jan 02 10:34	1° $\text{♄}$ 55'33	
inferior conj	5720 Jan 29 20:43	9° $\text{♄}$ 19'11	1°54'08		5721 Jan 07 09:13	30° $\text{♄}$	
minimum elong	5720 Jan 29 18:32	9° $\text{♄}$ 26'45	1°53'23	evening set	5721 Jan 07 17:06	29° $\text{♄}$ 43'48	
min. Earth dist.	5720 Jan 29 14:30	9° $\text{♄}$ 40'41	0.68170 AU	asc. node	5721 Jan 09 17:26	27° $\text{♄}$ 42'53	
morning rise	5720 Feb 04 01:05	3° $\text{♄}$ 10'39		min. Earth dist.	5721 Jan 12 10:58	24° $\text{♄}$ 15'21	0.67945 AU
direct	5720 Feb 08 13:32	1° $\text{♄}$ 19'31		inferior conj	5721 Jan 13 04:13	23° $\text{♄}$ 16'57	1°08'18
morning max el	5720 Feb 17 13:06	6° $\text{♄}$ 33'50	21°43'45	minimum elong	5721 Jan 13 02:42	23° $\text{♄}$ 22'06	1°07'44
desc. node	5720 Feb 28 21:10	20° $\text{♄}$ 33'13		morning rise	5721 Jan 18 12:21	17° $\text{♄}$ 13'41	
	5720 Mar 06 11:59	0° $\text{♄}$		direct	5721 Jan 22 11:07	15° $\text{♄}$ 45'06	
morning set	5720 Mar 20 19:43	21° $\text{♄}$ 55'39		morning max el	5721 Jan 30 09:05	20° $\text{♄}$ 16'07	20°26'25
	5720 Mar 25 19:15	0° $\text{♄}$			5721 Feb 07 09:52	0° $\text{♄}$	
max. Earth dist.	5720 Mar 27 00:35	2° $\text{♄}$ 01'16	1.41662 AU	desc. node	5721 Feb 14 18:10	10° $\text{♄}$ 26'32	
				morning set	5721 Feb 27 20:47	0° $\text{♄}$ 16'08	
superior conj	5720 Apr 03 15:32	15° $\text{♄}$ 00'51	-2°02'11		5721 Feb 27 16:37	0° $\text{♄}$	
minimum elong	5720 Apr 03 19:37	15° $\text{♄}$ 18'46	2°01'58	max. Earth dist.	5721 Mar 09 07:03	15° $\text{♄}$ 08'42	1.43480 AU
	5720 Apr 11 23:51	0° $\text{♄}$					
evening rise	5720 Apr 14 11:26	4° $\text{♄}$ 33'37		superior conj	5721 Mar 15 14:09	25° $\text{♄}$ 26'08	-2°09'35
asc. node	5720 Apr 20 19:36	16° $\text{♄}$ 02'38		minimum elong	5721 Mar 15 13:53	25° $\text{♄}$ 25'01	2°09'36
	5720 Apr 30 08:17	0° $\text{♄}$			5721 Mar 18 07:38	0° $\text{♄}$	
evening max el	5720 Apr 30 18:56	0° $\text{♄}$ 26'53	18°11'19	evening rise	5721 Mar 28 00:33	16° $\text{♄}$ 43'21	
retrograde	5720 May 07 16:55	3° $\text{♄}$ 56'05			5721 Apr 04 16:28	0° $\text{♄}$	
evening set	5720 May 10 04:32	3° $\text{♄}$ 29'43		asc. node	5721 Apr 07 16:40	4° $\text{♄}$ 53'24	
	5720 May 15 15:39	30° $\text{♄}$		evening max el	5721 Apr 14 07:23	13° $\text{♄}$ 35'58	18°07'01
inferior conj	5720 May 17 03:00	28° $\text{♄}$ 42'07	2°31'29	retrograde	5721 Apr 20 18:42	16° $\text{♄}$ 57'41	
minimum elong	5720 May 17 06:20	28° $\text{♄}$ 34'35	2°30'38	evening set	5721 Apr 23 13:00	16° $\text{♄}$ 20'05	
min. Earth dist.	5720 May 20 11:43	25° $\text{♄}$ 41'57	0.59878 AU	inferior conj	5721 Apr 29 20:56	11° $\text{♄}$ 12'46	3°11'51
morning rise	5720 May 24 05:29	22° $\text{♄}$ 56'04		minimum elong	5721 Apr 29 23:11	11° $\text{♄}$ 06'59	3°11'30
desc. node	5720 May 26 20:22	21° $\text{♄}$ 39'46		min. Earth dist.	5721 May 02 19:59	8° $\text{♄}$ 11'00	0.62081 AU
direct	5720 May 30 16:34	20° $\text{♄}$ 58'00		morning rise	5721 May 06 07:39	5° $\text{♄}$ 10'04	
morning max el	5720 Jun 14 01:12	28° $\text{♄}$ 51'12	27°36'20	direct	5721 May 13 02:59	2° $\text{♄}$ 42'39	
	5720 Jun 15 04:21	0° $\text{♄}$		desc. node	5721 May 13 17:25	2° $\text{♄}$ 43'45	
	5720 Jul 06 03:47	0° $\text{♄}$		morning max el	5721 May 27 06:15	10° $\text{♄}$ 43'29	27°53'24
morning set	5720 Jul 15 19:40	18° $\text{♄}$ 41'32			5721 Jun 11 08:13	0° $\text{♄}$	
asc. node	5720 Jul 17 18:53	22° $\text{♄}$ 50'24			5721 Jun 28 10:25	0° $\text{♄}$	
	5720 Jul 21 02:15	0° $\text{♄}$		morning set	5721 Jun 29 21:31	2° $\text{♄}$ 56'55	
max. Earth dist.	5720 Jul 22 04:28	2° $\text{♄}$ 24'05	1.31903 AU	asc. node	5721 Jul 04 15:56	12° $\text{♄}$ 56'04	
				max. Earth dist.	5721 Jul 05 12:24	14° $\text{♄}$ 46'14	1.32278 AU
superior conj	5720 Jul 22 23:43	4° $\text{♄}$ 10'13	0°51'49				
minimum elong	5720 Jul 22 21:42	3° $\text{♄}$ 59'06	0°51'25	superior conj	5721 Jul 07 09:25	18° $\text{♄}$ 50'43	0°28'02
evening rise	5720 Jul 29 18:38	19° $\text{♄}$ 00'41		minimum elong	5721 Jul 07 08:09	18° $\text{♄}$ 43'51	0°27'44
	5720 Aug 04 03:23	0° $\text{♄}$			5721 Jul 12 11:57	0° $\text{♄}$	
desc. node	5720 Aug 22 19:36	29° $\text{♄}$ 12'22		evening rise	5721 Jul 14 06:12	3° $\text{♄}$ 47'17	
	5720 Aug 23 12:28	0° $\text{♄}$			5721 Jul 28 06:07	0° $\text{♄}$	
evening max el	5720 Aug 26 14:53	3° $\text{♄}$ 12'13	25°47'35	evening max el	5721 Aug 08 04:46	13° $\text{♄}$ 50'55	24°19'05
retrograde	5720 Sep 09 13:46	10° $\text{♄}$ 18'08		desc. node	5721 Aug 09 16:38	15° $\text{♄}$ 13'09	
evening set	5720 Sep 15 18:29	8° $\text{♄}$ 47'17		retrograde	5721 Aug 22 00:28	20° $\text{♄}$ 48'17	
min. Earth dist.	5720 Sep 20 03:10	6° $\text{♄}$ 11'08	0.58372 AU	evening set	5721 Aug 26 22:01	19° $\text{♄}$ 54'59	
inferior conj	5720 Sep 23 07:18	3° $\text{♄}$ 54'41	-5°07'38	min. Earth dist.	5721 Sep 01 15:43	17° $\text{♄}$ 01'30	0.56520 AU
minimum elong	5720 Sep 23 11:39	3° $\text{♄}$ 46'50	5°07'06	inferior conj	5721 Sep 04 05:15	15° $\text{♄}$ 24'56	-5°20'21
	5720 Sep 29 20:59	30° $\text{♄}$		minimum elong	5721 Sep 04 04:03	15° $\text{♄}$ 26'51	5°20'19
morning rise	5720 Oct 01 07:08	29° $\text{♄}$ 32'44		morning rise	5721 Sep 12 12:29	11° $\text{♄}$ 23'45	
direct	5720 Oct 03 17:06	29° $\text{♄}$ 14'05		direct	5721 Sep 15 04:51	11° $\text{♄}$ 04'35	
	5720 Oct 07 09:15	0° $\text{♄}$		morning max el	5721 Sep 24 21:46	15° $\text{♄}$ 37'14	19°38'52
morning max el	5720 Oct 12 01:41	3° $\text{♄}$ 14'15	18°41'13	asc. node	5721 Sep 30 15:13	22° $\text{♄}$ 29'13	
asc. node	5720 Oct 13 18:11	5° $\text{♄}$ 00'08			5721 Oct 05 06:52	0° $\text{♄}$	
morning set	5720 Oct 28 08:17	29° $\text{♄}$ 16'32		morning set	5721 Oct 12 11:04	13° $\text{♄}$ 45'46	
	5720 Oct 28 17:13	0° $\text{♄}$					
superior conj	5720 Nov 06 00:28	16° $\text{♄}$ 01'04	1°22'54	superior conj	5721 Oct 20 08:50	29° $\text{♄}$ 40'45	1°37'03
				minimum elong	5721 Oct 20 10:47	29° $\text{♄}$ 50'21	1°36'56

	5721 Oct 20 12:44	0°♄		morning max el	5722 Sep 07 05:31	27°♄13'56	20°58'07
max. Earth dist.	5721 Oct 26 10:47	11°♄20'53	1.37566 AU		5722 Sep 09 21:43	0°♄	
evening rise	5721 Oct 30 04:54	18°♄10'33		asc. node	5722 Sep 17 12:15	10°♄46'48	
desc. node	5721 Nov 05 15:53	29°♄14'41		morning set	5722 Sep 26 18:48	28°♄28'31	
	5721 Nov 06 02:54	0°♄			5722 Sep 27 12:28	0°♄	
	5721 Nov 26 18:15	0°♄					
evening max el	5721 Dec 04 21:01	9°♄08'28	25°20'12	superior conj	5722 Oct 04 04:20	13°♄52'30	1°42'49
retrograde	5721 Dec 16 22:47	16°♄06'08		minimum elong	5722 Oct 04 04:45	13°♄54'42	1°42'49
evening set	5721 Dec 22 18:37	13°♄41'01		max. Earth dist.	5722 Oct 08 19:52	23°♄14'42	1.35647 AU
min. Earth dist.	5721 Dec 27 05:03	8°♄46'51	0.67365 AU		5722 Oct 12 07:58	0°♄	
asc. node	5721 Dec 27 14:29	8°♄16'26		evening rise	5722 Oct 12 21:41	1°♄04'24	
inferior conj	5721 Dec 28 09:16	7°♄15'30	0°15'53	desc. node	5722 Oct 23 12:54	19°♄38'59	
minimum elong	5721 Dec 28 08:52	7°♄16'48	0°15'45		5722 Oct 30 04:50	0°♄	
transit middle	5721 Dec 28 08:52	7°♄16'48	0°15'45	evening max el	5722 Nov 17 09:56	22°♄52'01	26°24'00
transit begin	5721 Dec 28 08:14	7°♄18'49			5722 Nov 29 02:17	0°♄	
transit end	5721 Dec 28 09:29	7°♄14'46		retrograde	5722 Nov 30 05:41	0°♄04'28	
morning rise	5722 Jan 02 23:24	1°♄19'36			5722 Dec 01 08:29	30°♄♄	
direct	5722 Jan 06 10:01	0°♄11'20		evening set	5722 Dec 06 14:37	27°♄29'21	
morning max el	5722 Jan 13 13:00	4°♄09'43	19°22'47	min. Earth dist.	5722 Dec 10 18:19	23°♄10'22	0.66432 AU
greatest brilliancy	5722 Jan 26 17:32	21°♄42'42	-0.7m	inferior conj	5722 Dec 12 09:52	21°♄10'22	-0°42'13
	5722 Feb 01 04:38	0°♄		minimum elong	5722 Dec 12 11:02	21°♄06'51	0°41'42
desc. node	5722 Feb 01 15:11	0°♄40'25		asc. node	5722 Dec 14 11:30	18°♄44'38	
morning set	5722 Feb 06 19:13	8°♄38'04		morning rise	5722 Dec 18 08:06	15°♄24'25	
max. Earth dist.	5722 Feb 19 20:29	29°♄00'22	1.44757 AU	direct	5722 Dec 21 08:22	14°♄33'11	
	5722 Feb 20 11:34	0°♄		morning max el	5722 Dec 27 23:47	18°♄10'20	18°34'55
					5723 Jan 06 00:26	0°♄	
superior conj	5722 Feb 23 11:47	4°♄46'46	-1°59'06	morning set	5723 Jan 17 14:38	18°♄08'18	
minimum elong	5722 Feb 23 05:04	4°♄19'58	1°58'42	desc. node	5723 Jan 19 12:12	21°♄08'39	
evening rise	5722 Mar 09 16:49	27°♄57'34			5723 Jan 25 02:52	0°♄	
	5722 Mar 10 22:12	0°♄					
asc. node	5722 Mar 25 13:43	23°♄09'00		superior conj	5723 Feb 02 16:40	13°♄27'37	-1°28'53
evening max el	5722 Mar 28 20:13	26°♄58'45	18°21'28	minimum elong	5723 Feb 02 07:14	12°♄50'39	1°27'52
	5722 Apr 02 01:11	0°♄		max. Earth dist.	5723 Feb 02 14:45	13°♄20'06	1.45344 AU
retrograde	5722 Apr 04 06:40	0°♄26'47			5723 Feb 13 05:02	0°♄	
	5722 Apr 06 11:43	30°♄♄		evening rise	5723 Feb 18 09:44	8°♄14'40	
evening set	5722 Apr 07 07:28	29°♄36'38		greatest brilliancy	5723 Feb 27 00:55	21°♄58'09	-0.8m
inferior conj	5722 Apr 13 04:50	24°♄10'45	3°29'17		5723 Mar 04 05:57	0°♄	
minimum elong	5722 Apr 13 05:30	24°♄08'50	3°29'14	asc. node	5723 Mar 12 10:45	10°♄38'42	
min. Earth dist.	5722 Apr 15 13:22	21°♄28'55	0.64083 AU	evening max el	5723 Mar 12 06:47	10°♄28'42	18°53'50
morning rise	5722 Apr 19 02:39	17°♄59'39		retrograde	5723 Mar 19 00:58	14°♄15'30	
direct	5722 Apr 25 21:51	15°♄14'34		evening set	5723 Mar 22 08:36	13°♄11'58	
desc. node	5722 Apr 30 14:28	16°♄21'40		inferior conj	5723 Mar 27 22:53	7°♄29'03	3°29'10
morning max el	5722 May 09 15:04	23°♄12'52	27°33'38	minimum elong	5723 Mar 27 22:08	7°♄31'22	3°29'07
	5722 May 15 15:42	0°♄		min. Earth dist.	5723 Mar 29 15:45	5°♄21'26	0.65726 AU
	5722 Jun 04 15:20	0°♄		morning rise	5723 Apr 02 11:15	1°♄14'29	
morning set	5722 Jun 13 15:41	16°♄46'38			5723 Apr 04 01:57	30°♄♄	
max. Earth dist.	5722 Jun 18 13:24	26°♄44'58	1.33107 AU	direct	5723 Apr 08 23:31	28°♄25'16	
	5722 Jun 20 02:31	0°♄			5723 Apr 14 09:14	0°♄	
				desc. node	5723 Apr 17 11:29	2°♄03'06	
superior conj	5722 Jun 21 15:20	3°♄15'45	0°01'02	morning max el	5723 Apr 22 01:09	6°♄09'08	26°42'35
minimum elong	5722 Jun 21 15:17	3°♄15'28	0°00'59		5723 May 10 09:07	0°♄	
behind sun begin	5722 Jun 21 09:53	2°♄46'41		morning set	5723 May 27 22:59	0°♄01'20	
behind sun end	5722 Jun 21 20:40	3°♄44'18			5723 May 27 22:42	0°♄	
asc. node	5722 Jun 21 12:58	3°♄03'04		max. Earth dist.	5723 Jun 01 04:19	8°♄14'33	1.34403 AU
evening rise	5722 Jun 28 17:47	18°♄30'14					
	5722 Jul 04 09:23	0°♄		superior conj	5723 Jun 05 15:14	17°♄18'42	-0°28'18
evening max el	5722 Jul 20 17:45	24°♄10'50	22°41'11	minimum elong	5723 Jun 05 16:47	17°♄26'41	0°28'01
desc. node	5722 Jul 27 13:40	29°♄12'00		asc. node	5723 Jun 08 09:59	23°♄07'28	
	5722 Jul 29 12:09	0°♄			5723 Jun 11 16:22	0°♄	
retrograde	5722 Aug 02 22:14	0°♄44'52		evening rise	5723 Jun 13 03:27	3°♄03'26	
evening set	5722 Aug 06 07:17	0°♄19'53			5723 Jun 28 09:57	0°♄	
	5722 Aug 07 11:43	30°♄♄		evening max el	5723 Jul 02 13:56	4°♄45'26	21°09'26
min. Earth dist.	5722 Aug 14 01:35	26°♄54'31	0.55227 AU	retrograde	5723 Jul 14 11:21	10°♄37'29	
inferior conj	5722 Aug 15 08:37	26°♄10'17	-4°45'57	desc. node	5723 Jul 14 10:42	10°♄37'29	
minimum elong	5722 Aug 15 01:08	26°♄20'59	4°44'36	evening set	5723 Jul 16 17:57	10°♄25'23	
morning rise	5722 Aug 23 20:59	22°♄20'26		inferior conj	5723 Jul 26 01:58	6°♄27'22	-3°20'13
direct	5722 Aug 26 22:57	21°♄58'31		minimum elong	5723 Jul 25 17:25	6°♄39'23	3°17'33

min. Earth dist.	5723 Jul 26 11:39	6°Ω13'46	0.54771 AU	min. Earth dist.	5724 Jul 06 23:52	15° <del>Ω</del> 32'26	0.55272 AU
morning rise	5723 Aug 03 17:24	2°Ω31'18		morning rise	5724 Jul 13 12:40	12° <del>Ω</del> 23'25	
direct	5723 Aug 07 07:57	2°Ω03'21		direct	5724 Jul 17 20:57	11° <del>Ω</del> 42'00	
morning max el	5723 Aug 20 02:05	8°Ω06'53	22°34'55	morning max el	5724 Jul 31 16:17	18° <del>Ω</del> 31'09	24°19'23
asc. node	5723 Sep 04 09:16	29°Ω41'27			5724 Aug 10 04:55	0°Ω	
	5723 Sep 04 13:16	0° <del>Π</del>		asc. node	5724 Aug 21 06:17	19°Ω03'04	
morning set	5723 Sep 11 05:25	13° <del>Π</del> 19'07		morning set	5724 Aug 25 17:08	28°Ω11'25	
					5724 Aug 26 13:31	0° <del>Π</del>	
superior conj	5723 Sep 18 07:31	28° <del>Π</del> 26'25	1°41'28	superior conj	5724 Sep 01 15:39	13° <del>Π</del> 13'29	1°34'01
minimum elong	5723 Sep 18 06:39	28° <del>Π</del> 21'49	1°41'27	minimum elong	5724 Sep 01 13:53	13° <del>Π</del> 03'51	1°33'52
	5723 Sep 19 01:10	0° <del>Ω</del>			5724 Sep 03 14:24	17° <del>Π</del> 26'23	1.32910 AU
max. Earth dist.	5723 Sep 21 12:57	5° <del>Ω</del> 13'06	1.34074 AU	max. Earth dist.	5724 Sep 08 23:52	28° <del>Π</del> 44'47	
evening rise	5723 Sep 26 05:18	14° <del>Ω</del> 39'27		evening rise	5724 Sep 09 14:45	0° <del>Ω</del>	
	5723 Oct 04 12:44	0° <del>Π</del>			5724 Sep 26 06:57	29° <del>Ω</del> 25'04	
desc. node	5723 Oct 10 09:55	9° <del>Π</del> 45'12		desc. node	5724 Sep 26 16:13	0° <del>Π</del>	
	5723 Oct 24 23:15	0° <del>♂</del>			5724 Oct 12 09:55	19° <del>Π</del> 37'10	27°27'17
evening max el	5723 Oct 30 22:42	6° <del>♂</del> 25'32	27°08'36	evening max el	5724 Oct 26 01:48	26° <del>Π</del> 54'28	
retrograde	5723 Nov 13 06:50	13° <del>♂</del> 43'29		retrograde	5724 Nov 02 04:48	24° <del>Π</del> 19'30	
evening set	5723 Nov 20 02:55	11° <del>♂</del> 04'05		evening set	5724 Nov 05 21:24	21° <del>Π</del> 08'01	0.63519 AU
min. Earth dist.	5723 Nov 24 00:25	7° <del>♂</del> 20'14	0.65146 AU	min. Earth dist.	5724 Nov 08 12:39	18° <del>Π</del> 28'53	-2°49'16
inferior conj	5723 Nov 26 03:51	4° <del>♂</del> 56'48	-1°44'41	inferior conj	5724 Nov 08 17:38	18° <del>Π</del> 16'18	2°47'26
minimum elong	5723 Nov 26 06:54	4° <del>♂</del> 48'18	1°43'25	minimum elong	5724 Nov 15 08:04	13° <del>Π</del> 12'02	
asc. node	5723 Dec 01 08:32	0° <del>♂</del> 02'26		morning rise	5724 Nov 17 05:33	12° <del>Π</del> 45'00	
	5723 Dec 01 10:02	30° <del>♂</del>		asc. node	5724 Nov 17 18:14	12° <del>Π</del> 43'38	
morning rise	5723 Dec 02 12:00	29° <del>Π</del> 23'51		direct	5724 Nov 24 08:09	16° <del>Π</del> 08'29	17°49'50
direct	5723 Dec 05 04:02	28° <del>Π</del> 45'53		morning max el	5724 Dec 04 03:45	0° <del>♂</del>	
	5723 Dec 08 22:47	0° <del>♂</del>			5724 Dec 10 19:02	11° <del>♂</del> 23'16	
morning max el	5723 Dec 11 15:08	2° <del>♂</del> 12'17	18°03'44	morning set	5724 Dec 21 17:34	0° <del>♂</del>	
morning set	5723 Dec 29 15:41	29° <del>♂</del> 07'39					
	5723 Dec 30 04:23	0° <del>♂</del>					
desc. node	5724 Jan 06 09:12	11° <del>♂</del> 46'51		superior conj	5724 Dec 23 02:49	2° <del>♂</del> 17'19	0°01'01
				minimum elong	5724 Dec 23 02:55	2° <del>♂</del> 17'44	0°01'02
superior conj	5724 Jan 12 23:44	22° <del>♂</del> 21'47	-0°45'05	behind sun begin	5724 Dec 22 17:20	1° <del>♂</del> 38'15	
minimum elong	5724 Jan 12 18:13	21° <del>♂</del> 59'56	0°44'19	behind sun end	5724 Dec 23 12:31	2° <del>♂</del> 57'07	
max. Earth dist.	5724 Jan 16 10:34	27° <del>♂</del> 48'50	1.45179 AU	desc. node	5724 Dec 23 06:14	2° <del>♂</del> 31'20	
	5724 Jan 17 19:58	0° <del>≈</del>		max. Earth dist.	5724 Dec 29 04:30	12° <del>♂</del> 07'19	1.44293 AU
evening rise	5724 Jan 29 06:11	17° <del>≈</del> 46'18		evening rise	5725 Jan 07 16:39	27° <del>♂</del> 00'22	
	5724 Feb 06 04:53	0° <del>♂</del>			5725 Jan 09 15:29	0° <del>≈</del>	
greatest brilliancy	5724 Feb 11 16:25	8° <del>♂</del> 17'15	-0.7m		5725 Jan 30 05:05	0° <del>♂</del>	
evening max el	5724 Feb 23 13:06	24° <del>♂</del> 01'46	19°42'39	evening max el	5725 Feb 05 14:07	7° <del>♂</del> 36'35	20°45'41
asc. node	5724 Feb 27 07:46	27° <del>♂</del> 09'32		asc. node	5725 Feb 13 04:48	12° <del>♂</del> 27'11	
retrograde	5724 Mar 01 22:31	28° <del>♂</del> 17'51		retrograde	5725 Feb 13 20:54	12° <del>♂</del> 29'35	
evening set	5724 Mar 05 13:52	27° <del>♂</del> 00'18		evening set	5725 Feb 17 21:16	10° <del>♂</del> 57'24	
inferior conj	5724 Mar 10 23:55	21° <del>♂</del> 02'22	3°15'28	inferior conj	5725 Feb 23 05:26	4° <del>♂</del> 47'04	2°50'54
minimum elong	5724 Mar 10 22:11	21° <del>♂</del> 08'10	3°15'12	minimum elong	5725 Feb 23 03:09	4° <del>♂</del> 54'56	2°50'21
min. Earth dist.	5724 Mar 12 01:58	19° <del>♂</del> 35'56	0.66950 AU	min. Earth dist.	5725 Feb 23 18:03	4° <del>♂</del> 03'41	0.67745 AU
morning rise	5724 Mar 16 06:15	14° <del>♂</del> 47'06			5725 Feb 26 22:27	30° <del>♂</del>	
direct	5724 Mar 22 07:08	12° <del>♂</del> 05'31		morning rise	5725 Feb 28 08:49	28° <del>≈</del> 33'03	
desc. node	5724 Apr 03 08:30	19° <del>♂</del> 15'37		direct	5725 Mar 05 20:02	26° <del>≈</del> 07'31	
morning max el	5724 Apr 03 10:37	19° <del>♂</del> 20'57	25°28'38		5725 Mar 13 22:22	0° <del>♂</del>	
	5724 Apr 12 12:00	0° <del>Υ</del>		morning max el	5725 Mar 16 19:24	2° <del>♂</del> 40'50	24°01'57
	5724 May 02 11:31	0° <del>♂</del>		desc. node	5725 Mar 21 05:31	7° <del>♂</del> 33'55	
morning set	5724 May 09 15:01	12° <del>♂</del> 28'18			5725 Apr 06 14:44	0° <del>Υ</del>	
max. Earth dist.	5724 May 13 08:09	19° <del>♂</del> 20'33	1.36151 AU	morning set	5725 Apr 21 10:24	23° <del>Υ</del> 53'36	
	5724 May 18 20:04	0° <del>Π</del>			5725 Apr 24 22:05	0° <del>♂</del>	
				max. Earth dist.	5725 Apr 25 04:19	0° <del>♂</del> 27'47	1.38242 AU
superior conj	5724 May 19 06:20	0° <del>Π</del> 51'09	-0°58'33	superior conj	5725 May 02 09:17	13° <del>♂</del> 45'18	-1°27'31
minimum elong	5724 May 19 09:39	1° <del>Π</del> 07'39	0°57'58	minimum elong	5725 May 02 14:04	14° <del>♂</del> 08'05	1°26'52
asc. node	5724 May 25 07:00	13° <del>Π</del> 04'30			5725 May 10 17:21	0° <del>Π</del>	
evening rise	5724 May 27 09:00	17° <del>Π</del> 19'25		evening rise	5725 May 11 07:55	1° <del>Π</del> 11'38	
	5724 Jun 02 20:57	0° <del>♂</del>		asc. node	5725 May 12 04:03	2° <del>Π</del> 50'19	
evening max el	5724 Jun 13 22:13	15° <del>♂</del> 56'46	19°53'45	evening max el	5725 May 27 18:38	27° <del>Π</del> 51'07	18°57'58
retrograde	5724 Jun 24 03:01	20° <del>♂</del> 56'42			5725 May 30 08:19	0° <del>♂</del>	
evening set	5724 Jun 26 00:37	20° <del>♂</del> 47'02		retrograde	5725 Jun 05 08:34	2° <del>♂</del> 03'40	
desc. node	5724 Jun 30 07:44	19° <del>♂</del> 22'14		evening set	5725 Jun 07 09:14	1° <del>♂</del> 50'30	
inferior conj	5724 Jul 04 23:29	16° <del>♂</del> 46'05	-1°23'56		5725 Jun 11 21:04	30° <del>♂</del>	
minimum elong	5724 Jul 04 19:36	16° <del>♂</del> 52'01	1°22'29				

inferior conj	5725 Jun 15 13:40	27° $\Pi$ 35'00	0°28'45	inferior conj	5726 May 28 01:23	9° $\Pi$ 05'52	1°55'32
minimum elong	5725 Jun 15 14:48	27° $\Pi$ 33'00	0°28'18	minimum elong	5726 May 28 04:42	8° $\Pi$ 59'02	1°54'31
desc. node	5725 Jun 17 04:46	26° $\Pi$ 25'58		min. Earth dist.	5726 May 31 11:46	6° $\Pi$ 17'41	0.58621 AU
min. Earth dist.	5725 Jun 18 15:29	25° $\Pi$ 26'00	0.56650 AU	desc. node	5726 Jun 04 01:47	3° $\Pi$ 50'34	
morning rise	5725 Jun 23 17:01	22° $\Pi$ 35'58		morning rise	5726 Jun 04 13:30	3° $\Pi$ 34'29	
direct	5725 Jun 28 23:31	21° $\Pi$ 29'52		direct	5726 Jun 10 16:18	1° $\Pi$ 55'35	
morning max el	5725 Jul 13 06:32	28° $\Pi$ 53'30	25°56'06	morning max el	5726 Jun 25 01:36	9° $\Pi$ 40'29	27°09'23
	5725 Jul 14 09:23	0° $\mathfrak{C}$			5726 Jul 10 15:22	0° $\mathfrak{C}$	
	5725 Aug 03 17:31	0° $\Omega$		morning set	5726 Jul 25 13:23	27° $\mathfrak{C}$ 41'22	
asc. node	5725 Aug 08 03:19	8° $\Omega$ 44'17		asc. node	5726 Jul 26 00:23	28° $\mathfrak{C}$ 39'17	
morning set	5725 Aug 10 04:19	13° $\Omega$ 00'27			5726 Jul 26 15:35	0° $\Omega$	
superior conj	5725 Aug 17 02:36	28° $\Omega$ 06'38	1°21'16	superior conj	5726 Aug 01 14:28	12° $\Omega$ 59'51	1°03'48
minimum elong	5725 Aug 17 00:21	27° $\Omega$ 54'18	1°20'57	minimum elong	5726 Aug 01 12:14	12° $\Omega$ 47'29	1°03'24
	5725 Aug 17 23:11	0° $\mathfrak{M}$		max. Earth dist.	5726 Aug 01 09:05	12° $\Omega$ 30'06	1.31878 AU
max. Earth dist.	5725 Aug 17 22:09	29° $\Omega$ 54'21	1.32178 AU	evening rise	5726 Aug 08 09:58	27° $\Omega$ 51'53	
evening rise	5725 Aug 24 02:17	13° $\mathfrak{M}$ 11'28			5726 Aug 09 10:18	0° $\mathfrak{M}$	
	5725 Sep 01 17:08	0° $\mathfrak{L}$			5726 Aug 26 04:32	0° $\mathfrak{L}$	
desc. node	5725 Sep 13 03:59	18° $\mathfrak{L}$ 27'38		desc. node	5726 Aug 31 01:01	6° $\mathfrak{L}$ 37'55	
	5725 Sep 22 11:29	0° $\mathfrak{M}$		evening max el	5726 Sep 06 18:43	14° $\mathfrak{L}$ 06'55	26°28'27
evening max el	5725 Sep 24 17:23	2° $\mathfrak{M}$ 14'26	27°14'40	retrograde	5726 Sep 20 17:20	21° $\mathfrak{L}$ 14'52	
retrograde	5725 Oct 08 13:50	9° $\mathfrak{M}$ 27'34		evening set	5726 Sep 27 09:45	19° $\mathfrak{L}$ 24'04	
evening set	5725 Oct 15 16:38	7° $\mathfrak{M}$ 08'40		min. Earth dist.	5726 Oct 01 08:17	16° $\mathfrak{L}$ 49'06	0.59547 AU
min. Earth dist.	5725 Oct 19 08:02	4° $\mathfrak{M}$ 22'02	0.61611 AU	inferior conj	5726 Oct 04 13:57	14° $\mathfrak{L}$ 17'56	-4°45'29
inferior conj	5725 Oct 22 09:09	1° $\mathfrak{M}$ 38'53	-3°51'58	minimum elong	5726 Oct 04 19:55	14° $\mathfrak{L}$ 06'16	4°44'20
minimum elong	5725 Oct 22 15:31	1° $\mathfrak{M}$ 24'40	3°50'05	morning rise	5726 Oct 12 08:14	9° $\mathfrak{L}$ 42'14	
	5725 Oct 24 06:33	30° $\mathfrak{R}$ $\mathfrak{L}$		direct	5726 Oct 14 16:06	9° $\mathfrak{L}$ 22'55	
morning rise	5725 Oct 29 16:23	26° $\mathfrak{L}$ 41'16		asc. node	5726 Oct 21 23:39	12° $\mathfrak{L}$ 45'11	
direct	5725 Oct 31 23:36	26° $\mathfrak{L}$ 18'56		morning max el	5726 Oct 22 10:14	13° $\mathfrak{L}$ 10'06	18°17'59
asc. node	5725 Nov 04 02:36	27° $\mathfrak{L}$ 01'44			5726 Nov 02 19:06	0° $\mathfrak{M}$	
morning max el	5725 Nov 07 23:38	29° $\mathfrak{L}$ 50'39	17°54'07	morning set	5726 Nov 07 07:17	8° $\mathfrak{M}$ 26'54	
	5725 Nov 08 03:25	0° $\mathfrak{M}$					
morning set	5725 Nov 23 18:08	24° $\mathfrak{M}$ 35'04		superior conj	5726 Nov 16 13:30	25° $\mathfrak{M}$ 50'20	1°10'27
	5725 Nov 26 17:42	0° $\mathfrak{X}$		minimum elong	5726 Nov 16 17:17	26° $\mathfrak{M}$ 07'35	1°10'00
superior conj	5725 Dec 04 08:10	13° $\mathfrak{X}$ 28'58	0°40'42		5726 Nov 18 20:43	0° $\mathfrak{X}$	
minimum elong	5725 Dec 04 11:27	13° $\mathfrak{X}$ 43'10	0°40'16	max. Earth dist.	5726 Nov 24 03:21	9° $\mathfrak{X}$ 13'39	1.40890 AU
desc. node	5725 Dec 10 03:13	23° $\mathfrak{X}$ 17'57		desc. node	5726 Nov 27 00:15	14° $\mathfrak{X}$ 04'05	
max. Earth dist.	5725 Dec 11 18:12	25° $\mathfrak{X}$ 58'45	1.42805 AU	evening rise	5726 Nov 28 19:20	17° $\mathfrak{X}$ 02'00	
	5725 Dec 14 05:31	0° $\mathfrak{Z}$			5726 Dec 06 23:44	0° $\mathfrak{Z}$	
evening rise	5725 Dec 18 08:48	6° $\mathfrak{Z}$ 35'15			5726 Dec 28 14:52	0° $\mathfrak{Z}$	
	5726 Jan 02 22:14	0° $\mathfrak{Z}$		evening max el	5727 Jan 02 01:27	4° $\mathfrak{Z}$ 52'32	23°18'46
evening max el	5726 Jan 19 09:48	21° $\mathfrak{Z}$ 12'49	21°59'26	retrograde	5727 Jan 12 12:33	11° $\mathfrak{Z}$ 03'49	
retrograde	5726 Jan 28 18:05	26° $\mathfrak{Z}$ 45'57		evening set	5727 Jan 17 11:40	9° $\mathfrak{Z}$ 00'50	
asc. node	5726 Jan 31 01:52	26° $\mathfrak{Z}$ 17'27		asc. node	5727 Jan 17 22:55	8° $\mathfrak{Z}$ 36'05	
evening set	5726 Feb 02 05:03	24° $\mathfrak{Z}$ 58'30		inferior conj	5727 Jan 22 21:21	2° $\mathfrak{Z}$ 35'39	1°35'32
inferior conj	5726 Feb 07 13:12	18° $\mathfrak{Z}$ 38'57	2°17'11	minimum elong	5727 Jan 22 19:23	2° $\mathfrak{Z}$ 42'24	1°34'51
minimum elong	5726 Feb 07 10:51	18° $\mathfrak{Z}$ 47'08	2°16'28	min. Earth dist.	5727 Jan 22 10:28	3° $\mathfrak{Z}$ 13'03	0.68128 AU
min. Earth dist.	5726 Feb 07 13:41	18° $\mathfrak{Z}$ 37'18	0.68129 AU		5727 Jan 24 19:46	30° $\mathfrak{R}$ $\mathfrak{Z}$	
morning rise	5726 Feb 12 16:28	12° $\mathfrak{Z}$ 27'49		morning rise	5727 Jan 28 03:02	26° $\mathfrak{Z}$ 29'05	
direct	5726 Feb 17 13:13	10° $\mathfrak{Z}$ 23'21		direct	5727 Feb 01 09:37	24° $\mathfrak{Z}$ 47'28	
morning max el	5726 Feb 27 05:42	16° $\mathfrak{Z}$ 06'20	22°32'40	morning max el	5727 Feb 09 21:20	29° $\mathfrak{Z}$ 41'47	21°09'15
desc. node	5726 Mar 08 02:31	26° $\mathfrak{Z}$ 38'45			5727 Feb 10 04:33	0° $\mathfrak{Z}$	
	5726 Mar 10 14:23	0° $\mathfrak{H}$		desc. node	5727 Feb 22 23:33	16° $\mathfrak{Z}$ 17'23	
	5726 Mar 30 15:40	0° $\mathfrak{Y}$			5727 Mar 04 07:30	0° $\mathfrak{H}$	
morning set	5726 Apr 02 03:16	4° $\mathfrak{Y}$ 01'49		morning set	5727 Mar 12 16:11	12° $\mathfrak{H}$ 52'31	
max. Earth dist.	5726 Apr 07 00:21	12° $\mathfrak{Y}$ 09'59	1.40454 AU	max. Earth dist.	5727 Mar 20 02:53	24° $\mathfrak{H}$ 48'38	1.42499 AU
					5727 Mar 23 06:18	0° $\mathfrak{Y}$	
superior conj	5726 Apr 14 19:41	25° $\mathfrak{Y}$ 50'23	-1°51'56	superior conj	5727 Mar 27 08:37	6° $\mathfrak{Y}$ 55'00	-2°07'11
minimum elong	5726 Apr 15 00:44	26° $\mathfrak{Y}$ 13'08	1°51'31	minimum elong	5727 Mar 27 11:18	7° $\mathfrak{Y}$ 06'26	2°07'07
	5726 Apr 17 02:33	0° $\mathfrak{B}$		evening rise	5727 Apr 07 20:01	27° $\mathfrak{Y}$ 09'42	
evening rise	5726 Apr 24 20:55	14° $\mathfrak{B}$ 31'27			5727 Apr 09 09:50	0° $\mathfrak{B}$	
asc. node	5726 Apr 29 01:06	22° $\mathfrak{B}$ 19'46		asc. node	5727 Apr 15 22:09	11° $\mathfrak{B}$ 26'50	
	5726 May 03 09:28	0° $\Pi$		evening max el	5727 Apr 24 11:03	23° $\mathfrak{B}$ 20'24	18°07'10
evening max el	5726 May 11 00:08	10° $\Pi$ 22'16	18°22'39	retrograde	5727 May 01 02:59	26° $\mathfrak{B}$ 44'19	
retrograde	5726 May 18 09:04	14° $\Pi$ 02'12		evening set	5727 May 03 17:39	26° $\mathfrak{B}$ 13'12	
evening set	5726 May 20 16:46	13° $\Pi$ 41'23		inferior conj	5727 May 10 09:24	21° $\mathfrak{B}$ 16'56	2°51'47

minimum elong	5727 May 10 12:23	21°♄09'46	2°51'09	minimum elong	5728 Apr 22 11:24	3°♄56'31	3°21'32
min. Earth dist.	5727 May 13 14:51	18°♄13'22	0.60830 AU	min. Earth dist.	5728 Apr 25 02:51	1°♄05'34	0.62966 AU
morning rise	5727 May 17 04:57	15°♄22'54			5728 Apr 26 04:51	30°♄	
desc. node	5727 May 21 22:49	13°♄22'06		morning rise	5728 Apr 28 14:37	27°♄53'41	
direct	5727 May 23 20:44	13°♄11'25		direct	5728 May 05 10:41	25°♄17'30	
morning max el	5727 Jun 07 03:16	21°♄08'02	27°48'21	desc. node	5728 May 07 19:50	25°♄34'42	
	5727 Jun 14 19:44	0°♄			5728 May 15 19:42	0°♄	
	5727 Jul 03 15:06	0°♄		morning max el	5728 May 19 10:26	3°♄18'15	27°49'24
morning set	5727 Jul 09 18:26	12°♄07'50			5728 Jun 08 07:09	0°♄	
asc. node	5727 Jul 12 21:24	18°♄42'25		morning set	5728 Jun 22 17:21	26°♄13'42	
max. Earth dist.	5727 Jul 15 19:23	25°♄01'40	1.32009 AU		5728 Jun 24 13:49	0°♄	
				max. Earth dist.	5728 Jun 28 01:04	7°♄16'36	1.32576 AU
superior conj	5727 Jul 17 01:25	27°♄46'31	0°42'11	asc. node	5728 Jun 28 18:26	8°♄49'31	
minimum elong	5727 Jul 16 23:40	27°♄36'53	0°41'48				
	5727 Jul 18 01:40	0°♄		superior conj	5728 Jun 30 09:44	12°♄21'17	0°16'56
evening rise	5727 Jul 23 20:40	12°♄38'12		minimum elong	5728 Jun 30 08:56	12°♄16'57	0°16'44
	5727 Aug 01 14:10	0°♄		evening rise	5728 Jul 07 08:29	27°♄24'21	
desc. node	5727 Aug 17 22:04	23°♄33'58			5728 Jul 08 13:55	0°♄	
evening max el	5727 Aug 19 12:13	25°♄09'19	25°12'13		5728 Jul 26 00:37	0°♄	
	5727 Aug 25 19:57	0°♄		evening max el	5728 Jul 31 00:31	5°♄35'19	23°37'31
retrograde	5727 Sep 02 10:17	2°♄11'49		desc. node	5728 Aug 03 19:05	8°♄47'13	
evening set	5727 Sep 08 03:20	0°♄57'14		retrograde	5728 Aug 13 15:21	12°♄25'25	
	5727 Sep 10 02:44	30°♄		evening set	5728 Aug 17 21:28	11°♄45'39	
min. Earth dist.	5727 Sep 12 23:46	28°♄16'02	0.57539 AU	min. Earth dist.	5728 Aug 24 10:23	8°♄40'18	0.55885 AU
inferior conj	5727 Sep 15 23:36	26°♄14'51	-5°17'48	inferior conj	5728 Aug 26 12:59	7°♄24'40	-5°12'14
minimum elong	5727 Sep 16 01:58	26°♄10'49	5°17'39	minimum elong	5728 Aug 26 08:52	7°♄30'52	5°11'51
morning rise	5727 Sep 24 02:52	22°♄02'12		morning rise	5728 Sep 03 22:42	3°♄30'24	
direct	5727 Sep 26 15:21	21°♄43'25		direct	5728 Sep 06 18:52	3°♄10'22	
morning max el	5727 Oct 05 12:25	25°♄55'49	19°03'02	morning max el	5728 Sep 17 03:21	7°♄59'30	20°10'08
asc. node	5727 Oct 08 20:41	29°♄39'45		asc. node	5728 Sep 24 17:42	17°♄30'48	
	5727 Oct 09 02:58	0°♄			5728 Oct 01 18:57	0°♄	
morning set	5727 Oct 22 06:00	22°♄45'02		morning set	5728 Oct 05 11:07	7°♄20'38	
	5727 Oct 25 21:47	0°♄					
superior conj	5727 Oct 30 13:27	9°♄05'28	1°30'01	superior conj	5728 Oct 13 03:00	23°♄00'12	1°40'26
minimum elong	5727 Oct 30 16:14	9°♄18'52	1°29'46	minimum elong	5728 Oct 13 04:18	23°♄06'42	1°40'24
max. Earth dist.	5727 Nov 06 08:58	21°♄46'28	1.38773 AU		5728 Oct 16 15:48	0°♄	
evening rise	5727 Nov 10 04:28	28°♄29'24		max. Earth dist.	5728 Oct 18 14:54	3°♄46'41	1.36713 AU
	5727 Nov 11 01:34	0°♄		evening rise	5728 Oct 22 10:45	10°♄54'11	
desc. node	5727 Nov 13 21:17	4°♄45'13		desc. node	5728 Oct 30 18:19	25°♄17'06	
	5727 Nov 30 10:33	0°♄			5728 Nov 02 16:27	0°♄	
evening max el	5727 Dec 15 14:42	18°♄35'28	24°37'40		5728 Nov 24 20:34	0°♄	
retrograde	5727 Dec 27 03:13	25°♄18'46		evening max el	5728 Nov 27 03:14	2°♄19'34	25°49'09
evening set	5728 Jan 01 15:31	23°♄00'55		retrograde	5728 Dec 09 13:17	9°♄25'14	
asc. node	5728 Jan 04 19:57	19°♄37'21		evening set	5728 Dec 15 14:56	6°♄55'00	
min. Earth dist.	5728 Jan 06 06:06	17°♄47'12	0.67752 AU	min. Earth dist.	5728 Dec 19 22:18	2°♄15'59	0.67011 AU
inferior conj	5728 Jan 07 04:02	16°♄34'16	0°46'50	inferior conj	5728 Dec 21 07:24	0°♄31'33	-0°08'07
minimum elong	5728 Jan 07 02:55	16°♄37'57	0°46'25	minimum elong	5728 Dec 21 07:37	0°♄30'53	0°08'01
morning rise	5728 Jan 12 14:28	10°♄34'06		transit middle	5728 Dec 21 07:37	0°♄30'53	0°08'01
direct	5728 Jan 16 07:56	9°♄14'27		transit begin	5728 Dec 21 05:09	0°♄38'39	
morning max el	5728 Jan 23 20:46	13°♄29'39	19°57'30	transit end	5728 Dec 21 10:04	0°♄23'08	
	5728 Feb 05 13:47	0°♄		asc. node	5728 Dec 21 16:58	0°♄01'25	
desc. node	5728 Feb 09 20:34	6°♄20'34			5728 Dec 21 17:25	30°♄	
morning set	5728 Feb 19 13:00	21°♄05'04		morning rise	5728 Dec 27 00:46	24°♄39'51	
	5728 Feb 25 06:43	0°♄		direct	5728 Dec 30 06:41	23°♄39'26	
max. Earth dist.	5728 Mar 01 13:09	8°♄19'30	1.44106 AU	morning max el	5729 Jan 06 03:55	27°♄27'24	19°00'28
					5729 Jan 08 11:40	0°♄	
superior conj	5728 Mar 06 20:20	16°♄51'54	-2°07'34	desc. node	5729 Jan 26 17:35	26°♄41'17	
minimum elong	5728 Mar 06 17:20	16°♄39'37	2°07'29	morning set	5729 Jan 28 18:11	29°♄50'33	
	5728 Mar 14 18:29	0°♄			5729 Jan 28 20:37	0°♄	
evening rise	5728 Mar 20 00:47	8°♄57'21		max. Earth dist.	5729 Feb 12 04:59	22°♄25'32	1.45092 AU
asc. node	5728 Apr 01 19:12	0°♄04'07					
	5728 Apr 01 18:05	0°♄		superior conj	5729 Feb 14 09:06	25°♄50'41	-1°48'31
evening max el	5728 Apr 06 23:58	6°♄36'26	18°10'52	minimum elong	5729 Feb 14 00:24	25°♄16'22	1°47'49
retrograde	5728 Apr 13 09:49	9°♄59'26			5729 Feb 17 00:09	0°♄	
evening set	5728 Apr 16 06:52	9°♄16'32		evening rise	5729 Mar 01 07:17	19°♄47'32	
inferior conj	5728 Apr 22 09:48	4°♄00'49	3°21'42		5729 Mar 07 13:20	0°♄	
				asc. node	5729 Mar 19 16:14	18°♄01'54	

evening max el	5729 Mar 21 12:03	20° $\Upsilon$ 02'48	18°33'03	evening max el	5730 Mar 04 21:03	3° $\Upsilon$ 35'04	19°12'39
retrograde	5729 Mar 28 00:59	23° $\Upsilon$ 37'49		asc. node	5730 Mar 06 13:15	5° $\Upsilon$ 08'48	
evening set	5729 Mar 31 04:31	22° $\Upsilon$ 42'12		retrograde	5730 Mar 11 21:00	7° $\Upsilon$ 33'15	
inferior conj	5729 Apr 05 22:28	17° $\Upsilon$ 08'48	3°31'07	evening set	5730 Mar 15 07:41	6° $\Upsilon$ 24'02	
minimum elong	5729 Apr 05 22:30	17° $\Upsilon$ 08'42	3°31'06	inferior conj	5730 Mar 20 19:53	0° $\Upsilon$ 34'40	3°24'49
min. Earth dist.	5729 Apr 08 00:20	14° $\Upsilon$ 40'03	0.64827 AU	minimum elong	5730 Mar 20 18:39	0° $\Upsilon$ 38'36	3°24'41
morning rise	5729 Apr 11 15:48	10° $\Upsilon$ 55'25			5730 Mar 21 06:38	30° $\Re$ $\text{H}$	
direct	5729 Apr 18 08:35	8° $\Upsilon$ 06'59		min. Earth dist.	5730 Mar 22 06:24	28° $\text{H}$ 43'43	0.66304 AU
desc. node	5729 Apr 24 16:51	10° $\Upsilon$ 09'23		morning rise	5730 Mar 26 05:16	24° $\text{H}$ 19'23	
morning max el	5729 May 01 20:18	16° $\Upsilon$ 01'36	27°15'17	direct	5730 Apr 01 13:11	21° $\text{H}$ 31'48	
	5729 May 13 08:35	0° $\text{B}$		desc. node	5730 Apr 11 13:53	26° $\text{H}$ 33'21	
	5729 Jun 01 01:51	0° $\text{II}$		morning max el	5730 Apr 14 06:13	29° $\text{H}$ 05'55	26°13'10
morning set	5729 Jun 06 07:20	9° $\text{II}$ 50'01			5730 Apr 15 03:12	0° $\Upsilon$	
max. Earth dist.	5729 Jun 10 22:05	19° $\text{II}$ 03'12	1.33600 AU		5730 May 07 04:30	0° $\text{B}$	
				morning set	5730 May 20 08:44	22° $\text{B}$ 46'17	
superior conj	5729 Jun 14 13:20	26° $\text{II}$ 37'32	-0°11'14		5730 May 24 03:50	0° $\text{II}$	
minimum elong	5729 Jun 14 13:55	26° $\text{II}$ 40'38	0°11'08	max. Earth dist.	5730 May 24 07:46	0° $\text{II}$ 19'07	1.35097 AU
behind sun begin	5729 Jun 14 09:54	26° $\text{II}$ 19'26					
behind sun end	5729 Jun 14 17:57	27° $\text{II}$ 01'52		superior conj	5730 May 29 09:53	10° $\text{II}$ 28'41	-0°41'09
asc. node	5729 Jun 15 15:28	28° $\text{II}$ 55'55		minimum elong	5730 May 29 12:10	10° $\text{II}$ 40'22	0°40'43
	5729 Jun 16 03:31	0° $\text{S}$		asc. node	5730 Jun 02 12:30	18° $\text{II}$ 57'44	
evening rise	5729 Jun 21 19:27	12° $\text{S}$ 03'38		evening rise	5730 Jun 06 03:38	26° $\text{II}$ 30'08	
	5729 Jul 01 00:13	0° $\Omega$			5730 Jun 07 20:39	0° $\text{S}$	
evening max el	5729 Jul 12 15:27	15° $\Omega$ 56'56	22°00'37	evening max el	5730 Jun 24 16:37	26° $\text{S}$ 45'59	20°34'55
desc. node	5729 Jul 21 16:05	21° $\Omega$ 43'48			5730 Jun 28 16:34	0° $\Omega$	
retrograde	5729 Jul 25 08:58	22° $\Omega$ 15'55		retrograde	5730 Jul 05 21:18	2° $\Omega$ 15'40	
evening set	5729 Jul 28 04:28	21° $\Omega$ 58'15		evening set	5730 Jul 07 21:55	2° $\Omega$ 05'38	
inferior conj	5729 Aug 06 10:33	17° $\Omega$ 54'49	-4°15'16	desc. node	5730 Jul 08 13:07	1° $\Omega$ 58'32	
minimum elong	5729 Aug 06 01:44	18° $\Omega$ 07'12	4°13'07		5730 Jul 13 19:08	30° $\Re$ $\text{S}$	
min. Earth dist.	5729 Aug 05 20:13	18° $\Omega$ 14'57	0.54913 AU	inferior conj	5730 Jul 17 03:50	28° $\text{S}$ 08'40	-2°32'34
morning rise	5729 Aug 15 00:35	14° $\Omega$ 04'46		minimum elong	5730 Jul 16 20:50	28° $\text{S}$ 18'44	2°30'07
direct	5729 Aug 18 07:06	13° $\Omega$ 41'03		min. Earth dist.	5730 Jul 18 07:18	27° $\text{S}$ 29'09	0.54866 AU
morning max el	5729 Aug 30 06:06	19° $\Omega$ 17'09	21°37'40	morning rise	5730 Jul 25 19:06	24° $\text{S}$ 03'04	
	5729 Sep 07 22:01	0° $\text{P}$		direct	5730 Jul 29 16:39	23° $\text{S}$ 30'21	
asc. node	5729 Sep 11 14:43	6° $\text{P}$ 05'25		morning max el	5730 Aug 11 23:06	29° $\text{S}$ 54'56	23°19'15
morning set	5729 Sep 19 20:17	22° $\text{P}$ 07'17			5730 Aug 12 01:16	0° $\Omega$	
	5729 Sep 23 14:03	0° $\text{A}$		asc. node	5730 Aug 29 11:45	25° $\Omega$ 12'36	
					5730 Aug 31 22:23	0° $\text{P}$	
superior conj	5729 Sep 27 02:09	7° $\text{A}$ 22'49	1°43'03	morning set	5730 Sep 04 07:33	6° $\text{P}$ 59'00	
minimum elong	5729 Sep 27 01:59	7° $\text{A}$ 21'59	1°43'04				
max. Earth dist.	5729 Oct 01 02:43	15° $\text{A}$ 38'44	1.34922 AU	superior conj	5730 Sep 11 07:42	22° $\text{P}$ 03'11	1°39'00
evening rise	5729 Oct 05 10:19	24° $\text{A}$ 07'04		minimum elong	5730 Sep 11 06:24	21° $\text{P}$ 56'11	1°38'56
	5729 Oct 08 13:48	0° $\text{M}$		max. Earth dist.	5730 Sep 13 23:22	27° $\text{P}$ 42'22	1.33523 AU
desc. node	5729 Oct 17 15:20	15° $\text{M}$ 34'42			5730 Sep 15 01:37	0° $\text{A}$	
	5729 Oct 27 06:21	0° $\text{J}$		evening rise	5730 Sep 18 23:01	7° $\text{A}$ 56'28	
evening max el	5729 Nov 09 16:03	16° $\text{J}$ 00'05	26°45'48		5730 Oct 01 01:51	0° $\text{M}$	
retrograde	5729 Nov 22 18:05	23° $\text{J}$ 16'51		desc. node	5730 Oct 04 12:21	5° $\text{M}$ 30'52	
evening set	5729 Nov 29 07:59	20° $\text{J}$ 38'55		evening max el	5730 Oct 23 04:32	29° $\text{M}$ 26'28	27°20'16
min. Earth dist.	5729 Dec 03 08:53	16° $\text{J}$ 34'57	0.65918 AU		5730 Oct 23 18:50	0° $\text{J}$	
inferior conj	5729 Dec 05 05:30	14° $\text{J}$ 23'59	-1°08'16	retrograde	5730 Nov 05 16:44	6° $\text{J}$ 44'48	
minimum elong	5729 Dec 05 07:25	14° $\text{J}$ 18'19	1°07'26	evening set	5730 Nov 12 16:14	4° $\text{J}$ 06'24	
asc. node	5729 Dec 08 13:59	10° $\text{J}$ 45'11		min. Earth dist.	5730 Nov 16 11:31	0° $\text{J}$ 36'32	0.64485 AU
morning rise	5729 Dec 11 07:44	8° $\text{J}$ 43'12			5730 Nov 17 01:22	30° $\Re$ $\text{M}$	
direct	5729 Dec 14 04:07	7° $\text{J}$ 58'14		inferior conj	5730 Nov 18 19:55	28° $\text{M}$ 05'27	-2°12'01
morning max el	5729 Dec 20 17:02	11° $\text{J}$ 30'04	18°19'36	minimum elong	5730 Nov 18 23:49	27° $\text{M}$ 55'00	2°10'28
	5730 Jan 02 21:02	0° $\text{Z}$		morning rise	5730 Nov 25 08:43	22° $\text{M}$ 38'39	
morning set	5730 Jan 09 02:08	9° $\text{Z}$ 59'11		asc. node	5730 Nov 25 11:01	22° $\text{M}$ 36'12	
desc. node	5730 Jan 13 14:36	17° $\text{Z}$ 14'36		direct	5730 Nov 27 21:54	22° $\text{M}$ 05'12	
	5730 Jan 21 15:27	0° $\approx$		morning max el	5730 Dec 04 09:23	25° $\text{M}$ 30'10	17°55'39
					5730 Dec 08 04:07	0° $\text{J}$	
superior conj	5730 Jan 24 12:28	4° $\approx$ 31'24	-1°11'21	morning set	5730 Dec 21 15:08	21° $\text{J}$ 33'31	
minimum elong	5730 Jan 24 04:05	3° $\approx$ 58'27	1°10'20		5730 Dec 26 16:03	0° $\text{Z}$	
max. Earth dist.	5730 Jan 25 23:50	6° $\approx$ 50'03	1.45360 AU	desc. node	5730 Dec 31 11:36	7° $\text{Z}$ 55'46	
evening rise	5730 Feb 09 14:46	29° $\approx$ 43'21					
	5730 Feb 09 19:01	0° $\text{H}$		superior conj	5731 Jan 04 02:24	13° $\text{Z}$ 47'12	-0°25'13
greatest brilliancy	5730 Feb 20 12:09	16° $\text{H}$ 43'24	-0.8m	minimum elong	5731 Jan 03 23:25	13° $\text{Z}$ 35'11	0°24'45
	5730 Mar 01 18:11	0° $\Upsilon$		max. Earth dist.	5731 Jan 08 19:00	21° $\text{Z}$ 15'53	1.44887 AU

	5731 Jan 14 08:43	0°♊			5732 Jan 07 07:37	0°♊	
evening rise	5731 Jan 20 05:10	9°♊02'59			5732 Jan 29 06:48	0°♊	
	5731 Feb 03 01:25	0°♊		evening max el	5732 Jan 30 00:03	0°♊44'58	21°16'02
greatest brilliancy	5731 Feb 03 22:32	1°♊17'32	-0.6m	retrograde	5732 Feb 07 17:05	5°♊54'28	
evening max el	5731 Feb 16 01:19	17°♊09'37	20°07'57	asc. node	5732 Feb 08 07:20	5°♊52'35	
asc. node	5731 Feb 21 10:17	21°♊10'40		evening set	5732 Feb 11 21:54	4°♊15'37	
retrograde	5731 Feb 23 19:03	21°♊40'15			5732 Feb 15 18:59	30°♊	
evening set	5731 Feb 27 14:07	20°♊16'34		inferior conj	5732 Feb 17 05:50	28°♊00'59	2°37'36
inferior conj	5731 Mar 04 23:08	14°♊13'18	3°06'14	minimum elong	5732 Feb 17 03:28	28°♊09'11	2°36'59
minimum elong	5731 Mar 04 21:06	14°♊20'10	3°05'51	min. Earth dist.	5732 Feb 17 13:05	27°♊35'52	0.67959 AU
min. Earth dist.	5731 Mar 05 19:20	13°♊05'04	0.67346 AU	morning rise	5732 Feb 22 08:52	21°♊48'17	
morning rise	5731 Mar 10 03:52	7°♊58'33		direct	5732 Feb 27 13:58	19°♊31'27	
direct	5731 Mar 15 23:16	5°♊22'45		morning max el	5732 Mar 09 00:06	25°♊43'09	23°23'50
morning max el	5731 Mar 27 15:04	12°♊21'11	24°52'40		5732 Mar 12 21:46	0°♊	
desc. node	5731 Mar 29 10:54	14°♊16'30		desc. node	5732 Mar 15 07:54	2°♊56'14	
	5731 Apr 10 19:36	0°♊			5732 Apr 03 08:27	0°♊	
	5731 Apr 29 22:38	0°♊		morning set	5732 Apr 13 01:30	15°♊43'20	
morning set	5731 May 02 16:46	4°♊49'27		max. Earth dist.	5732 Apr 17 03:19	22°♊42'47	1.39186 AU
max. Earth dist.	5731 May 06 07:33	11°♊21'51	1.37013 AU		5732 Apr 21 05:42	0°♊	
superior conj	5731 May 12 20:23	23°♊47'04	-1°11'08	superior conj	5732 Apr 24 16:54	6°♊21'55	-1°38'39
minimum elong	5731 May 13 00:24	24°♊06'42	1°10'30	minimum elong	5732 Apr 24 22:01	6°♊45'46	1°38'04
	5731 May 15 23:48	0°♊		evening rise	5732 May 04 01:57	24°♊17'40	
asc. node	5731 May 20 09:32	8°♊51'09		asc. node	5732 May 06 06:36	28°♊30'54	
evening rise	5731 May 21 06:46	10°♊37'41			5732 May 07 01:19	0°♊	
	5731 May 31 19:22	0°♊		evening max el	5732 May 20 07:10	20°♊28'02	18°40'24
evening max el	5731 Jun 07 06:29	8°♊17'04	19°27'30	retrograde	5732 May 28 07:20	24°♊25'01	
retrograde	5731 Jun 16 17:33	12°♊55'03		evening set	5732 May 30 10:51	24°♊08'59	
evening set	5731 Jun 18 15:47	12°♊44'22		inferior conj	5732 Jun 07 06:38	19°♊44'51	1°09'17
desc. node	5731 Jun 25 10:10	9°♊49'37		minimum elong	5732 Jun 07 09:04	19°♊40'15	1°08'25
inferior conj	5731 Jun 27 07:24	8°♊38'16	-0°33'55	min. Earth dist.	5732 Jun 10 13:50	17°♊16'55	0.57437 AU
minimum elong	5731 Jun 27 05:54	8°♊40'42	0°33'23	desc. node	5732 Jun 11 07:12	16°♊46'24	
min. Earth dist.	5731 Jun 29 20:40	7°♊00'01	0.55770 AU	morning rise	5732 Jun 15 03:57	14°♊31'05	
morning rise	5731 Jul 05 17:22	4°♊00'54		direct	5732 Jun 20 19:30	13°♊12'01	
direct	5731 Jul 10 11:08	3°♊10'14		morning max el	5732 Jul 05 04:28	20°♊45'30	26°30'59
morning max el	5731 Jul 24 12:27	10°♊14'57	25°02'25		5732 Jul 13 04:12	0°♊	
	5731 Aug 08 09:49	0°♊			5732 Jul 31 00:50	0°♊	
asc. node	5731 Aug 16 08:48	14°♊44'00		asc. node	5732 Aug 02 05:51	4°♊31'53	
morning set	5731 Aug 19 19:17	21°♊51'10		morning set	5732 Aug 03 05:48	6°♊37'39	
	5731 Aug 23 13:47	0°♊					
superior conj	5731 Aug 26 17:19	6°♊54'06	1°29'13	superior conj	5732 Aug 10 04:53	21°♊47'53	1°14'25
minimum elong	5731 Aug 26 15:18	6°♊43'00	1°29'00	minimum elong	5732 Aug 10 02:35	21°♊35'13	1°14'02
max. Earth dist.	5731 Aug 28 04:08	10°♊04'11	1.32552 AU	max. Earth dist.	5732 Aug 10 13:52	22°♊37'35	1.32004 AU
evening rise	5731 Sep 02 21:22	22°♊12'41			5732 Aug 13 22:27	0°♊	
	5731 Sep 06 18:54	0°♊		evening rise	5732 Aug 17 02:19	6°♊45'59	
desc. node	5731 Sep 21 09:23	24°♊56'42			5732 Aug 29 07:25	0°♊	
	5731 Sep 24 22:49	0°♊		desc. node	5732 Sep 07 06:26	13°♊39'10	
evening max el	5731 Oct 05 14:44	12°♊26'01	27°26'00	evening max el	5732 Sep 16 19:45	24°♊44'37	26°58'54
retrograde	5731 Oct 19 08:36	19°♊40'46			5732 Sep 23 19:46	0°♊	
evening set	5731 Oct 26 12:37	17°♊11'25		retrograde	5732 Sep 30 16:56	1°♊55'17	
min. Earth dist.	5731 Oct 30 04:12	14°♊11'38	0.62742 AU		5732 Oct 07 07:56	30°♊	
inferior conj	5731 Nov 01 23:55	11°♊29'27	-3°16'26	evening set	5732 Oct 07 17:03	29°♊46'41	
minimum elong	5731 Nov 02 05:37	11°♊15'47	3°14'29	min. Earth dist.	5732 Oct 11 10:02	27°♊07'18	0.60749 AU
morning rise	5731 Nov 09 00:20	6°♊20'08		inferior conj	5732 Oct 14 14:08	24°♊27'03	-4°16'22
direct	5731 Nov 11 08:58	5°♊54'34		minimum elong	5732 Oct 14 20:38	24°♊13'20	4°14'42
asc. node	5731 Nov 12 08:04	5°♊58'55		morning rise	5732 Oct 22 02:16	19°♊38'43	
morning max el	5731 Nov 18 02:06	9°♊21'08	17°49'20	direct	5732 Oct 24 09:25	19°♊17'56	
	5731 Dec 01 17:50	0°♊		asc. node	5732 Oct 29 05:06	20°♊53'52	
morning set	5731 Dec 04 03:39	4°♊15'27		morning max el	5732 Oct 31 15:56	22°♊54'40	18°01'50
					5732 Nov 06 05:45	0°♊	
				morning set	5732 Nov 16 09:19	17°♊45'49	
					5732 Nov 23 00:48	0°♊	
superior conj	5731 Dec 15 16:27	24°♊14'22	0°18'57				
minimum elong	5731 Dec 15 18:17	24°♊22'04	0°18'43				
desc. node	5731 Dec 18 08:37	28°♊41'28		superior conj	5732 Nov 26 08:37	5°♊57'32	0°54'36
	5731 Dec 19 03:40	0°♊		minimum elong	5732 Nov 26 12:22	6°♊14'08	0°54'07
max. Earth dist.	5731 Dec 22 11:53	5°♊26'29	1.43731 AU	max. Earth dist.	5732 Dec 03 23:53	19°♊04'22	1.42027 AU
evening rise	5731 Dec 30 16:08	18°♊21'17		desc. node	5732 Dec 04 05:39	19°♊28'23	

evening rise	5732 Dec 09 14:59	28° $\text{♄}$ 15'13		desc. node	5733 Nov 21 02:41	10° $\text{♄}$ 12'45	
	5732 Dec 10 17:19	0° $\text{♄}$			5733 Dec 03 16:47	0° $\text{♄}$	
	5732 Dec 30 23:51	0° $\text{♄}$		evening max el	5733 Dec 25 07:52	28° $\text{♄}$ 02'15	23°52'50
evening max el	5733 Jan 11 17:41	14° $\text{♄}$ 21'58	22°32'49		5733 Dec 27 09:54	0° $\text{♄}$	
retrograde	5733 Jan 21 13:22	20° $\text{♄}$ 12'13		retrograde	5734 Jan 05 06:27	4° $\text{♄}$ 29'00	
asc. node	5733 Jan 25 04:23	19° $\text{♄}$ 03'55		evening set	5734 Jan 10 10:58	2° $\text{♄}$ 19'35	
evening set	5733 Jan 26 05:23	18° $\text{♄}$ 17'55		asc. node	5734 Jan 12 01:24	0° $\text{♄}$ 46'13	
inferior conj	5733 Jan 31 13:58	11° $\text{♄}$ 55'15	2°00'26		5734 Jan 12 17:44	30° $\text{♄}$	
minimum elong	5733 Jan 31 11:44	12° $\text{♄}$ 03'02	1°59'43	inferior conj	5734 Jan 15 21:41	25° $\text{♄}$ 52'58	1°15'42
min. Earth dist.	5733 Jan 31 09:28	12° $\text{♄}$ 10'55	0.68169 AU	minimum elong	5734 Jan 15 20:02	25° $\text{♄}$ 58'36	1°15'06
morning rise	5733 Feb 05 17:58	5° $\text{♄}$ 45'57		min. Earth dist.	5734 Jan 15 06:06	26° $\text{♄}$ 46'00	0.68005 AU
direct	5733 Feb 10 08:31	3° $\text{♄}$ 51'25		morning rise	5734 Jan 21 05:06	19° $\text{♄}$ 48'41	
morning max el	5733 Feb 19 12:26	9° $\text{♄}$ 13'12	21°56'11	direct	5734 Jan 25 05:51	18° $\text{♄}$ 16'45	
desc. node	5733 Mar 02 04:55	22° $\text{♄}$ 16'47		morning max el	5734 Feb 02 07:11	22° $\text{♄}$ 53'36	20°37'03
	5733 Mar 07 16:29	0° $\text{♄}$			5734 Feb 08 09:05	0° $\text{♄}$	
morning set	5733 Mar 24 06:12	25° $\text{♄}$ 17'33		desc. node	5734 Feb 17 01:55	12° $\text{♄}$ 06'31	
	5733 Mar 27 03:54	0° $\text{♄}$			5734 Feb 28 23:50	0° $\text{♄}$	
max. Earth dist.	5733 Mar 30 01:46	4° $\text{♄}$ 48'40	1.41354 AU	morning set	5734 Mar 03 09:42	3° $\text{♄}$ 43'47	
				max. Earth dist.	5734 Mar 12 06:57	17° $\text{♄}$ 47'57	1.43242 AU
superior conj	5733 Apr 06 18:46	18° $\text{♄}$ 02'26	-1°59'51				
minimum elong	5733 Apr 06 23:13	18° $\text{♄}$ 22'03	1°59'35	superior conj	5734 Mar 18 21:08	28° $\text{♄}$ 37'50	-2°09'32
	5733 Apr 13 10:01	0° $\text{♄}$		minimum elong	5734 Mar 18 21:44	28° $\text{♄}$ 40'22	2°09'31
evening rise	5733 Apr 17 09:37	7° $\text{♄}$ 21'25			5734 Mar 19 16:44	0° $\text{♄}$	
asc. node	5733 Apr 23 03:40	17° $\text{♄}$ 51'52		evening rise	5734 Mar 31 01:23	19° $\text{♄}$ 38'24	
	5733 Apr 30 20:13	0° $\text{♄}$			5734 Apr 05 23:07	0° $\text{♄}$	
evening max el	5733 May 03 15:21	3° $\text{♄}$ 11'39	18°13'38	asc. node	5734 Apr 10 00:41	6° $\text{♄}$ 47'00	
retrograde	5733 May 10 15:52	6° $\text{♄}$ 43'11		evening max el	5734 Apr 17 03:29	16° $\text{♄}$ 18'04	18°06'30
evening set	5733 May 13 02:25	6° $\text{♄}$ 18'24		retrograde	5734 Apr 23 15:39	19° $\text{♄}$ 39'49	
inferior conj	5733 May 20 03:25	1° $\text{♄}$ 33'59	2°22'55	evening set	5734 Apr 26 09:02	19° $\text{♄}$ 03'56	
minimum elong	5733 May 20 06:49	1° $\text{♄}$ 26'29	2°22'00	inferior conj	5734 May 02 18:52	13° $\text{♄}$ 59'33	3°07'19
	5733 May 21 21:53	30° $\text{♄}$		minimum elong	5734 May 02 21:20	13° $\text{♄}$ 53'19	3°06'54
min. Earth dist.	5733 May 23 12:57	28° $\text{♄}$ 36'01	0.59548 AU	min. Earth dist.	5734 May 05 19:50	10° $\text{♄}$ 56'31	0.61760 AU
morning rise	5733 May 27 08:23	25° $\text{♄}$ 51'16		morning rise	5734 May 09 07:48	7° $\text{♄}$ 58'52	
desc. node	5733 May 29 04:13	24° $\text{♄}$ 55'54		direct	5734 May 16 02:33	5° $\text{♄}$ 35'09	
direct	5733 Jun 02 17:34	23° $\text{♄}$ 57'59		desc. node	5734 May 16 01:13	5° $\text{♄}$ 35'10	
	5733 Jun 15 03:47	0° $\text{♄}$		morning max el	5734 May 30 06:44	13° $\text{♄}$ 35'16	27°53'20
morning max el	5733 Jun 17 02:35	1° $\text{♄}$ 49'36	27°30'30		5734 Jun 12 10:16	0° $\text{♄}$	
	5733 Jul 07 11:30	0° $\text{♄}$			5734 Jun 29 21:59	0° $\text{♄}$	
morning set	5733 Jul 18 13:24	21° $\text{♄}$ 13'15		morning set	5734 Jul 02 16:09	5° $\text{♄}$ 31'57	
asc. node	5733 Jul 20 02:54	24° $\text{♄}$ 30'54		asc. node	5734 Jul 06 23:57	14° $\text{♄}$ 36'23	
	5733 Jul 22 15:58	0° $\text{♄}$		max. Earth dist.	5734 Jul 08 09:33	17° $\text{♄}$ 37'38	1.32189 AU
max. Earth dist.	5733 Jul 25 00:55	5° $\text{♄}$ 12'31	1.31881 AU				
superior conj	5733 Jul 25 16:35	6° $\text{♄}$ 38'57	0°55'08	superior conj	5734 Jul 10 02:40	21° $\text{♄}$ 21'35	0°31'53
minimum elong	5733 Jul 25 14:29	6° $\text{♄}$ 27'25	0°54'42	minimum elong	5734 Jul 10 01:15	21° $\text{♄}$ 13'54	0°31'34
evening rise	5733 Aug 01 11:31	21° $\text{♄}$ 29'19			5734 Jul 14 01:17	0° $\text{♄}$	
	5733 Aug 05 14:20	0° $\text{♄}$		evening rise	5734 Jul 16 22:54	6° $\text{♄}$ 16'23	
	5733 Aug 24 00:41	0° $\text{♄}$			5734 Jul 29 08:58	0° $\text{♄}$	
desc. node	5733 Aug 25 03:29	1° $\text{♄}$ 20'48		evening max el	5734 Aug 11 08:17	16° $\text{♄}$ 59'26	24°33'23
evening max el	5733 Aug 29 17:28	6° $\text{♄}$ 14'19	25°59'02	desc. node	5734 Aug 12 00:30	17° $\text{♄}$ 37'34	
retrograde	5733 Sep 12 16:33	13° $\text{♄}$ 21'06		retrograde	5734 Aug 25 04:57	23° $\text{♄}$ 58'19	
evening set	5733 Sep 19 00:39	11° $\text{♄}$ 44'54		evening set	5734 Aug 30 07:48	22° $\text{♄}$ 59'45	
min. Earth dist.	5733 Sep 23 06:08	9° $\text{♄}$ 09'37	0.58668 AU	min. Earth dist.	5734 Sep 04 19:27	20° $\text{♄}$ 09'55	0.56769 AU
inferior conj	5733 Sep 26 11:03	6° $\text{♄}$ 48'42	-5°02'42	inferior conj	5734 Sep 07 12:06	18° $\text{♄}$ 26'36	-5°21'08
minimum elong	5733 Sep 26 15:57	6° $\text{♄}$ 39'41	5°02'02	minimum elong	5734 Sep 07 11:55	18° $\text{♄}$ 26'55	5°21'09
morning rise	5733 Oct 04 09:33	2° $\text{♄}$ 23'16		morning rise	5734 Sep 15 18:22	14° $\text{♄}$ 22'30	
direct	5733 Oct 06 18:46	2° $\text{♄}$ 04'34		direct	5734 Sep 18 09:36	14° $\text{♄}$ 03'30	
morning max el	5733 Oct 14 23:26	6° $\text{♄}$ 01'12	18°34'31	morning max el	5734 Sep 27 21:10	18° $\text{♄}$ 30'42	19°28'49
asc. node	5733 Oct 16 02:09	7° $\text{♄}$ 09'17		asc. node	5734 Oct 02 23:10	24° $\text{♄}$ 30'03	
	5733 Oct 30 04:15	0° $\text{♄}$			5734 Oct 06 12:46	0° $\text{♄}$	
morning set	5733 Oct 31 02:57	1° $\text{♄}$ 49'37		morning set	5734 Oct 15 04:46	16° $\text{♄}$ 16'33	
					5734 Oct 22 00:56	0° $\text{♄}$	
superior conj	5733 Nov 08 22:31	18° $\text{♄}$ 43'34	1°19'56	superior conj	5734 Oct 23 04:50	2° $\text{♄}$ 17'30	1°35'27
minimum elong	5733 Nov 09 01:59	18° $\text{♄}$ 59'48	1°19'34	minimum elong	5734 Oct 23 07:01	2° $\text{♄}$ 28'11	1°35'19
	5733 Nov 15 03:32	0° $\text{♄}$		max. Earth dist.	5734 Oct 29 11:36	14° $\text{♄}$ 15'09	1.37878 AU
max. Earth dist.	5733 Nov 16 06:38	1° $\text{♄}$ 58'42	1.39992 AU	evening rise	5734 Nov 02 05:36	21° $\text{♄}$ 00'53	
evening rise	5733 Nov 20 10:57	9° $\text{♄}$ 07'08			5734 Nov 07 11:27	0° $\text{♄}$	



desc. node	5734 Nov 07 23:44	0°♌50'55		minimum elong	5735 Oct 06 23:33	16°♊28'25	1°42'25
	5734 Nov 27 16:38	0°♌		max. Earth dist.	5735 Oct 11 19:51	26°♊10'23	1.35918 AU
evening max el	5734 Dec 07 20:48	11°♌46'48	25°09'27		5735 Oct 13 19:27	0°♌	
retrograde	5734 Dec 19 19:15	18°♌40'50		evening rise	5735 Oct 15 19:46	3°♌47'26	
evening set	5734 Dec 25 13:08	16°♌17'38		desc. node	5735 Oct 25 20:46	21°♌17'26	
asc. node	5734 Dec 29 22:24	11°♌25'35			5735 Oct 31 09:46	0°♌	
min. Earth dist.	5734 Dec 30 00:39	11°♌18'19	0.67483 AU	evening max el	5735 Nov 20 09:39	25°♌30'48	26°15'27
inferior conj	5734 Dec 31 03:12	9°♌51'43	0°24'17		5735 Nov 25 19:17	0°♌	
minimum elong	5734 Dec 31 02:36	9°♌53'40	0°24'02	retrograde	5735 Dec 03 02:56	2°♌41'32	
morning rise	5735 Jan 05 16:19	3°♌54'34		evening set	5735 Dec 09 10:04	0°♌07'31	
direct	5735 Jan 09 04:40	2°♌43'22			5735 Dec 09 13:40	30°♌♌	
morning max el	5735 Jan 16 09:55	6°♌45'37	19°31'12	min. Earth dist.	5735 Dec 13 14:43	25°♌43'24	0.66598 AU
greatest brilliancy	5735 Jan 29 11:04	24°♌00'28	-0.7m	inferior conj	5735 Dec 15 04:35	23°♌47'18	-0°33'02
	5735 Feb 02 10:42	0°♌		minimum elong	5735 Dec 15 05:29	23°♌44'33	0°32'39
desc. node	5735 Feb 03 22:57	2°♌17'49		asc. node	5735 Dec 16 19:25	21°♌50'47	
morning set	5735 Feb 10 06:48	12°♌00'31		morning rise	5735 Dec 21 01:30	17°♌59'50	
	5735 Feb 21 19:40	0°♌		direct	5735 Dec 24 03:12	17°♌06'18	
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					5736 Jan 07 03:13	0°♌	
superior conj	5735 Feb 26 22:12	8°♌07'03	-2°01'58	morning set	5736 Jan 20 22:13	21°♌18'40	
minimum elong	5735 Feb 26 16:22	7°♌43'45	2°01'40	desc. node	5736 Jan 21 20:00	22°♌44'31	
	5735 Mar 12 06:22	0°♌			5736 Jan 26 10:41	0°♌	
evening rise	5735 Mar 12 20:55	1°♌01'00		max. Earth dist.	5736 Feb 05 13:39	15°♌52'40	1.45305 AU
asc. node	5735 Mar 27 21:41	25°♌08'17					
evening max el	5735 Mar 31 16:23	29°♌39'03	18°18'11	superior conj	5736 Feb 06 04:38	16°♌51'23	-1°34'33
	5735 Apr 01 00:56	0°♌		minimum elong	5736 Feb 05 19:08	16°♌14'09	1°33'37
retrograde	5735 Apr 07 02:20	3°♌05'16			5736 Feb 14 12:53	0°♌	
evening set	5735 Apr 10 02:12	2°♌16'57		evening rise	5736 Feb 21 17:26	11°♌27'06	
	5735 Apr 13 02:45	30°♌♌		greatest brilliancy	5736 Feb 29 10:32	23°♌47'53	-0.9m
inferior conj	5735 Apr 16 00:54	26°♌53'38	3°27'53		5736 Mar 04 09:21	0°♌	
minimum elong	5735 Apr 16 01:48	26°♌51'04	3°27'48	asc. node	5736 Mar 13 18:42	12°♌45'54	
min. Earth dist.	5735 Apr 18 11:41	24°♌07'53	0.63804 AU	evening max el	5736 Mar 14 03:25	13°♌08'27	18°47'51
morning rise	5735 Apr 22 00:25	20°♌43'29		retrograde	5736 Mar 20 19:59	16°♌51'52	
direct	5735 Apr 28 20:06	18°♌00'21		evening set	5736 Mar 24 02:32	15°♌50'21	
desc. node	5735 May 02 22:13	18°♌51'14		inferior conj	5736 Mar 29 17:40	10°♌09'44	3°30'07
morning max el	5735 May 12 15:05	25°♌59'23	27°38'50	minimum elong	5736 Mar 29 17:07	10°♌11'26	3°30'05
	5735 May 16 08:00	0°♌		min. Earth dist.	5736 Mar 31 12:49	7°♌56'27	0.65508 AU
	5735 Jun 05 23:35	0°♌		morning rise	5736 Apr 04 07:13	3°♌55'21	
morning set	5735 Jun 16 11:35	19°♌25'44		direct	5736 Apr 10 20:45	1°♌06'04	
max. Earth dist.	5735 Jun 21 11:50	29°♌40'36	1.32951 AU	desc. node	5736 Apr 18 19:14	4°♌16'27	
	5735 Jun 21 15:32	0°♌		morning max el	5736 Apr 24 01:14	8°♌53'01	26°51'52
asc. node	5735 Jun 23 20:57	4°♌43'26			5736 May 10 13:17	0°♌	
					5736 May 28 09:38	0°♌	
superior conj	5735 Jun 24 09:13	5°♌49'05	0°05'18	morning set	5736 May 29 20:43	2°♌46'08	
minimum elong	5735 Jun 24 08:57	5°♌47'41	0°05'14	max. Earth dist.	5736 Jun 03 04:30	11°♌14'47	1.34181 AU
behind sun begin	5735 Jun 24 03:52	5°♌20'23					
behind sun end	5735 Jun 24 14:03	6°♌15'01		superior conj	5736 Jun 07 10:08	19°♌55'21	-0°23'47
evening rise	5735 Jul 01 10:34	21°♌00'12		minimum elong	5736 Jun 07 11:25	20°♌02'02	0°23'31
	5735 Jul 05 19:21	0°♌		asc. node	5736 Jun 09 17:59	24°♌48'18	
evening max el	5735 Jul 23 20:49	27°♌19'50	22°55'48		5736 Jun 12 04:58	0°♌	
	5735 Jul 26 22:29	0°♌		evening rise	5736 Jun 14 20:39	5°♌34'58	
desc. node	5735 Jul 29 21:31	1°♌57'09			5736 Jun 28 05:20	0°♌	
retrograde	5735 Aug 06 04:20	3°♌58'32		evening max el	5736 Jul 04 15:18	7°♌49'18	21°22'13
evening set	5735 Aug 09 18:48	3°♌30'10		desc. node	5736 Jul 15 18:30	13°♌46'38	
min. Earth dist.	5735 Aug 17 05:18	0°♌10'32	0.55374 AU	retrograde	5736 Jul 16 18:20	13°♌48'59	
	5735 Aug 17 12:41	30°♌♌		evening set	5736 Jul 19 03:44	13°♌35'49	
inferior conj	5735 Aug 18 17:52	29°♌17'56	-4°54'42	inferior conj	5736 Jul 28 11:46	9°♌36'43	-3°35'57
minimum elong	5735 Aug 18 11:07	29°♌27'39	4°53'37	minimum elong	5736 Jul 28 02:55	9°♌49'06	3°33'20
morning rise	5735 Aug 27 05:35	25°♌27'30		min. Earth dist.	5736 Jul 28 15:06	9°♌32'02	0.54776 AU
direct	5735 Aug 30 06:04	25°♌06'06		morning rise	5736 Aug 06 02:57	5°♌43'00	
	5735 Sep 10 00:32	0°♌		direct	5736 Aug 09 15:15	5°♌16'23	
morning max el	5735 Sep 10 06:44	0°♌14'15	20°45'00	morning max el	5736 Aug 22 04:45	11°♌12'42	22°19'47
asc. node	5735 Sep 19 20:12	12°♌41'02			5736 Sep 04 21:13	0°♌	
morning set	5735 Sep 29 11:53	0°♌57'42		asc. node	5736 Sep 05 17:15	1°♌30'29	
	5735 Sep 29 00:40	0°♌		morning set	5736 Sep 12 22:11	15°♌47'08	
					5736 Sep 19 14:32	0°♌	
superior conj	5735 Oct 06 22:54	16°♌25'05	1°42'25				



































































































































superior conj	5736 Sep 20 01:07	0° $\Omega$ 56'04	1°42'05	superior conj	5737 Sep 04 08:42	15° $\eta$ 41'42	1°35'31
minimum elong	5736 Sep 20 00:26	0° $\Omega$ 52'25	1°42'04	minimum elong	5737 Sep 04 07:02	15° $\eta$ 32'41	1°35'23
max. Earth dist.	5736 Sep 23 11:30	8° $\Omega$ 06'15	1.34280 AU	max. Earth dist.	5737 Sep 06 11:40	20° $\eta$ 16'29	1.33048 AU
evening rise	5736 Sep 28 01:24	17° $\Omega$ 16'35			5737 Sep 11 03:11	0° $\Omega$	
	5736 Oct 04 21:59	0° $\mathbb{M}$		evening rise	5737 Sep 11 18:34	1° $\Omega$ 18'05	
desc. node	5736 Oct 11 17:47	11° $\mathbb{M}$ 26'36			5737 Sep 27 20:20	0° $\mathbb{M}$	
	5736 Oct 24 18:15	0° $\mathcal{A}$		desc. node	5737 Sep 28 14:48	1° $\mathbb{M}$ 11'03	
evening max el	5736 Nov 01 22:24	9° $\mathcal{A}$ 06'02	27°03'26	evening max el	5737 Oct 15 09:59	22° $\mathbb{M}$ 22'03	27°26'30
retrograde	5736 Nov 15 05:04	16° $\mathcal{A}$ 24'01		retrograde	5737 Oct 29 01:10	29° $\mathbb{M}$ 40'06	
evening set	5736 Nov 21 23:42	13° $\mathcal{A}$ 44'37		evening set	5737 Nov 05 03:26	27° $\mathbb{M}$ 03'52	
min. Earth dist.	5736 Nov 25 22:01	9° $\mathcal{A}$ 55'43	0.65357 AU	min. Earth dist.	5737 Nov 08 20:36	23° $\mathbb{M}$ 47'48	0.63776 AU
inferior conj	5736 Nov 27 23:43	7° $\mathcal{A}$ 35'11	-1°35'01	inferior conj	5737 Nov 11 10:07	21° $\mathbb{M}$ 10'17	-2°39'32
minimum elong	5736 Nov 28 02:28	7° $\mathcal{A}$ 27'24	1°33'52	minimum elong	5737 Nov 11 14:50	20° $\mathbb{M}$ 58'12	2°37'44
asc. node	5736 Dec 02 16:28	2° $\mathcal{A}$ 57'54		morning rise	5737 Nov 18 03:49	15° $\mathbb{M}$ 50'47	
morning rise	5736 Dec 04 06:18	2° $\mathcal{A}$ 00'13		asc. node	5737 Nov 19 13:33	15° $\mathbb{M}$ 26'41	
direct	5736 Dec 06 23:23	1° $\mathcal{A}$ 20'36		direct	5737 Nov 20 14:37	15° $\mathbb{M}$ 21'15	
morning max el	5736 Dec 13 10:44	4° $\mathcal{A}$ 48'04	18°07'19	morning max el	5737 Nov 27 03:45	18° $\mathbb{M}$ 45'59	17°50'46
	5736 Dec 30 12:26	0° $\mathcal{B}$			5737 Dec 05 09:35	0° $\mathcal{A}$	
morning set	5736 Dec 31 18:54	2° $\mathcal{B}$ 04'58		morning set	5737 Dec 13 18:47	14° $\mathcal{A}$ 10'44	
desc. node	5737 Jan 07 17:01	13° $\mathcal{B}$ 21'27			5737 Dec 23 02:39	0° $\mathcal{B}$	
				desc. node	5737 Dec 25 14:02	4° $\mathcal{B}$ 05'09	
superior conj	5737 Jan 15 10:06	25° $\mathcal{B}$ 40'14	-0°52'09	superior conj	5737 Dec 26 09:32	5° $\mathcal{B}$ 25'00	-0°05'45
minimum elong	5737 Jan 15 03:44	25° $\mathcal{B}$ 15'04	0°51'17	minimum elong	5737 Dec 26 08:55	5° $\mathcal{B}$ 22'25	0°05'38
	5737 Jan 18 04:02	0° $\approx$		behind sun begin	5737 Dec 25 23:40	4° $\mathcal{B}$ 44'36	
max. Earth dist.	5737 Jan 18 09:20	0° $\approx$ 20'50	1.45247 AU	behind sun end	5737 Dec 26 18:09	6° $\mathcal{B}$ 00'10	
evening rise	5737 Jan 31 16:28	21° $\approx$ 04'10		max. Earth dist.	5738 Jan 01 03:29	14° $\mathcal{B}$ 41'04	1.44468 AU
	5737 Feb 06 10:59	0° $\mathcal{H}$			5738 Jan 10 22:41	0° $\approx$	
greatest brilliancy	5737 Feb 13 12:15	10° $\mathcal{H}$ 45'48	-0.7m	evening rise	5738 Jan 11 03:28	0° $\approx$ 18'24	
evening max el	5737 Feb 25 10:29	26° $\mathcal{H}$ 41'20	19°34'21		5738 Jan 31 04:45	0° $\mathcal{H}$	
asc. node	5737 Feb 28 15:44	29° $\mathcal{H}$ 26'46		evening max el	5738 Feb 08 12:22	10° $\mathcal{H}$ 16'01	20°35'31
	5737 Mar 01 13:48	0° $\mathcal{Y}$		asc. node	5738 Feb 15 12:47	14° $\mathcal{H}$ 56'28	
retrograde	5737 Mar 04 17:18	0° $\mathcal{Y}$ 52'40		retrograde	5738 Feb 16 15:41	15° $\mathcal{H}$ 03'09	
	5737 Mar 07 17:17	30° $\mathcal{R}$ $\mathcal{H}$		evening set	5738 Feb 20 14:36	13° $\mathcal{H}$ 33'16	
evening set	5737 Mar 08 07:22	29° $\mathcal{H}$ 37'20		inferior conj	5738 Feb 25 22:56	7° $\mathcal{H}$ 24'43	2°55'12
inferior conj	5737 Mar 13 17:54	23° $\mathcal{H}$ 41'28	3°18'16	minimum elong	5738 Feb 25 20:42	7° $\mathcal{H}$ 32'21	2°54'43
minimum elong	5737 Mar 13 16:16	23° $\mathcal{H}$ 46'50	3°18'03	min. Earth dist.	5738 Feb 26 13:30	6° $\mathcal{H}$ 34'46	0.67657 AU
min. Earth dist.	5737 Mar 14 22:04	22° $\mathcal{H}$ 08'36	0.66796 AU	morning rise	5738 Mar 03 02:34	1° $\mathcal{H}$ 10'22	
morning rise	5737 Mar 19 00:54	17° $\mathcal{H}$ 26'03			5738 Mar 04 14:31	30° $\mathcal{R}$ $\approx$	
direct	5737 Mar 25 03:40	14° $\mathcal{H}$ 42'37		direct	5738 Mar 08 15:57	28° $\approx$ 41'53	
desc. node	5737 Apr 05 16:16	21° $\mathcal{H}$ 17'09			5738 Mar 13 03:32	0° $\mathcal{H}$	
morning max el	5737 Apr 06 10:59	22° $\mathcal{H}$ 03'39	25°40'38	morning max el	5738 Mar 19 19:42	5° $\mathcal{H}$ 22'10	24°15'10
	5737 Apr 13 09:38	0° $\mathcal{Y}$		desc. node	5738 Mar 23 13:18	9° $\mathcal{H}$ 26'41	
	5737 May 03 19:41	0° $\mathcal{B}$			5738 Apr 07 19:55	0° $\mathcal{Y}$	
morning set	5737 May 12 15:22	15° $\mathcal{B}$ 21'12		morning set	5738 Apr 24 14:14	26° $\mathcal{Y}$ 56'43	
max. Earth dist.	5737 May 16 09:47	22° $\mathcal{B}$ 22'40	1.35868 AU		5738 Apr 26 08:07	0° $\mathcal{B}$	
	5737 May 20 08:03	0° $\mathbb{I}$		max. Earth dist.	5738 Apr 28 06:29	3° $\mathcal{B}$ 26'35	1.37920 AU
superior conj	5737 May 22 02:46	3° $\mathbb{I}$ 32'47	-0°53'59	superior conj	5738 May 05 07:49	16° $\mathcal{B}$ 33'24	-1°23'19
minimum elong	5737 May 22 05:49	3° $\mathbb{I}$ 48'04	0°53'27	minimum elong	5738 May 05 12:26	16° $\mathcal{B}$ 55'31	1°22'41
asc. node	5737 May 27 15:01	14° $\mathbb{I}$ 46'31			5738 May 12 04:38	0° $\mathbb{I}$	
evening rise	5737 May 30 02:59	19° $\mathbb{I}$ 53'45		evening rise	5738 May 14 03:05	3° $\mathbb{I}$ 49'57	
	5737 Jun 04 05:18	0° $\mathcal{E}$		asc. node	5738 May 14 12:04	4° $\mathbb{I}$ 34'13	
evening max el	5737 Jun 16 21:42	18° $\mathcal{E}$ 54'12	20°03'45		5738 May 29 23:43	0° $\mathcal{E}$	
retrograde	5737 Jun 27 08:49	24° $\mathcal{E}$ 01'51		evening max el	5738 May 30 16:33	0° $\mathcal{E}$ 42'44	19°04'57
evening set	5737 Jun 29 06:38	23° $\mathcal{E}$ 52'21		retrograde	5738 Jun 08 11:38	5° $\mathcal{E}$ 01'17	
desc. node	5737 Jul 02 15:31	22° $\mathcal{E}$ 53'27		evening set	5738 Jun 10 11:31	4° $\mathcal{E}$ 48'54	
inferior conj	5737 Jul 08 07:43	19° $\mathcal{E}$ 52'53	-1°42'02	inferior conj	5738 Jun 18 18:56	0° $\mathcal{E}$ 36'09	0°13'02
minimum elong	5737 Jul 08 02:57	20° $\mathcal{E}$ 00'01	1°40'17	minimum elong	5738 Jun 18 19:28	0° $\mathcal{E}$ 35'14	0°12'49
min. Earth dist.	5737 Jul 10 03:05	18° $\mathcal{E}$ 47'55	0.55135 AU	transit middle	5738 Jun 18 19:28	0° $\mathcal{E}$ 35'14	0°12'49
morning rise	5737 Jul 16 21:38	15° $\mathcal{E}$ 34'56		transit begin	5738 Jun 18 17:12	0° $\mathcal{E}$ 39'09	
direct	5737 Jul 21 02:55	14° $\mathcal{E}$ 56'06		transit end	5738 Jun 18 21:45	0° $\mathcal{E}$ 31'19	
morning max el	5737 Aug 03 19:31	21° $\mathcal{E}$ 39'31	24°04'01	desc. node	5738 Jun 19 12:33	0° $\mathcal{E}$ 05'47	
	5737 Aug 11 01:58	0° $\mathcal{O}$			5738 Jun 19 15:54	30° $\mathcal{R}$ $\mathbb{I}$	
asc. node	5737 Aug 23 14:19	20° $\mathcal{O}$ 48'27		min. Earth dist.	5738 Jun 21 18:09	28° $\mathbb{I}$ 34'35	0.56402 AU
morning set	5737 Aug 28 09:52	0° $\eta$ 39'22		morning rise	5738 Jun 27 00:12	25° $\mathbb{I}$ 42'41	
	5737 Aug 28 02:25	0° $\eta$		direct	5738 Jul 02 03:30	24° $\mathbb{I}$ 40'46	

	5738 Jul 14 03:55	0°☿		morning max el	5739 Jun 28 03:29	12°☿42'19	27°00'28
morning max el	5738 Jul 16 09:18	2°☿00'01	25°42'53		5739 Jul 11 18:19	0°☿	
	5738 Aug 05 02:46	0°♊		morning set	5739 Jul 28 06:43	0°♊11'30	
asc. node	5738 Aug 10 11:21	10°♊27'02		asc. node	5739 Jul 28 08:23	0°♊20'19	
morning set	5738 Aug 12 21:14	15°♊29'00			5739 Jul 28 04:31	0°♊	
superior conj	5738 Aug 19 19:21	0°♊34'13	1°23'32	superior conj	5739 Aug 04 07:11	15°♊27'42	1°06'45
minimum elong	5738 Aug 19 17:09	0°♊22'07	1°23'14	minimum elong	5739 Aug 04 04:55	15°♊15'10	1°06'21
	5738 Aug 19 13:08	0°♊		max. Earth dist.	5739 Aug 04 05:30	15°♊18'24	1.31900 AU
max. Earth dist.	5738 Aug 20 18:41	2°♊42'31	1.32257 AU		5739 Aug 10 23:06	0°♊	
evening rise	5738 Aug 26 20:01	15°♊42'07		evening rise	5739 Aug 11 03:04	0°♊20'58	
	5738 Sep 03 02:33	0°♋			5739 Aug 27 06:10	0°♋	
desc. node	5738 Sep 15 11:50	20°♋19'57		desc. node	5739 Sep 02 08:51	8°♋38'58	
	5738 Sep 22 22:24	0°♌		evening max el	5739 Sep 09 20:43	17°♋04'47	26°37'21
evening max el	5738 Sep 27 18:20	5°♌05'34	27°18'48	retrograde	5739 Sep 23 18:54	24°♋13'03	
retrograde	5738 Oct 11 14:18	12°♌19'09		evening set	5739 Sep 30 13:44	22°♋17'22	
evening set	5738 Oct 18 17:37	9°♌57'18		min. Earth dist.	5739 Oct 04 10:29	19°♋41'47	0.59861 AU
min. Earth dist.	5738 Oct 22 08:54	7°♌07'33	0.61906 AU	inferior conj	5739 Oct 07 15:59	17°♋07'51	-4°38'25
inferior conj	5738 Oct 25 08:42	4°♌24'12	-3°42'53	minimum elong	5739 Oct 07 22:11	16°♋55'28	4°37'08
minimum elong	5738 Oct 25 14:56	4°♌10'00	3°40'57	morning rise	5739 Oct 15 08:43	12°♋28'43	
	5738 Oct 31 03:19	30°♌♋		direct	5739 Oct 17 16:20	12°♋09'02	
morning rise	5738 Nov 01 14:10	29°♋23'21		asc. node	5739 Oct 24 07:39	14°♋59'42	
direct	5738 Nov 03 21:37	29°♋00'17		morning max el	5739 Oct 25 07:07	15°♋53'10	18°13'09
asc. node	5738 Nov 06 10:37	29°♋29'10			5739 Nov 04 03:25	0°♌	
	5738 Nov 07 13:21	0°♌		morning set	5739 Nov 10 02:41	11°♌01'38	
morning max el	5738 Nov 10 19:40	2°♌30'33	17°52'15				
morning set	5738 Nov 26 15:22	27°♌15'29		superior conj	5739 Nov 19 13:00	28°♌36'32	1°06'36
	5738 Nov 28 03:50	0°♍		minimum elong	5739 Nov 19 16:50	28°♌53'52	1°06'08
superior conj	5738 Dec 07 10:59	16°♍25'16	0°35'17		5739 Nov 20 07:30	0°♍	
minimum elong	5738 Dec 07 13:59	16°♍38'06	0°34'52	max. Earth dist.	5739 Nov 27 04:04	11°♍59'09	1.41195 AU
desc. node	5738 Dec 12 11:04	24°♍51'42		desc. node	5739 Nov 29 08:06	15°♍37'45	
max. Earth dist.	5738 Dec 14 18:06	28°♍38'01	1.43063 AU	evening rise	5739 Dec 02 01:07	20°♍05'19	
	5738 Dec 15 14:14	0°♎			5739 Dec 08 06:57	0°♎	
evening rise	5738 Dec 21 17:52	9°♎48'06		evening max el	5740 Jan 05 00:58	7°♎30'51	23°06'49
	5739 Jan 04 02:48	0°♏		retrograde	5740 Jan 15 08:00	13°♎36'40	
evening max el	5739 Jan 22 08:54	23°♎52'10	21°47'57	evening set	5740 Jan 20 05:17	11°♎35'49	
retrograde	5739 Jan 31 13:06	29°♎18'57		asc. node	5740 Jan 20 06:53	11°♎32'28	
asc. node	5739 Feb 02 09:51	29°♎00'33		min. Earth dist.	5740 Jan 25 05:23	5°♎43'10	0.68154 AU
evening set	5739 Feb 04 22:26	27°♎33'46		inferior conj	5740 Jan 25 14:39	5°♎11'14	1°42'21
inferior conj	5739 Feb 10 06:30	21°♎15'28	2°22'49	minimum elong	5740 Jan 25 12:36	5°♎18'18	1°41'38
minimum elong	5739 Feb 10 04:07	21°♎23'43	2°22'08		5740 Jan 29 18:59	30°♏♎	
min. Earth dist.	5739 Feb 10 08:43	21°♎07'44	0.68102 AU	morning rise	5740 Jan 30 19:50	29°♎03'59	
morning rise	5739 Feb 15 09:37	15°♎03'54		direct	5740 Feb 04 04:28	27°♎19'02	
direct	5739 Feb 20 08:35	12°♎56'04			5740 Feb 10 06:19	0°♏	
morning max el	5739 Mar 02 05:29	18°♎46'18	22°45'44	morning max el	5740 Feb 12 20:10	2°♎20'00	21°21'04
desc. node	5739 Mar 10 10:19	28°♎25'12		desc. node	5740 Feb 25 07:21	17°♎59'10	
	5739 Mar 11 15:09	0°♐			5740 Mar 04 13:30	0°♐	
	5739 Mar 31 23:35	0°♑		morning set	5740 Mar 15 04:07	16°♐17'55	
morning set	5739 Apr 05 11:22	7°♑17'02		max. Earth dist.	5740 Mar 22 03:51	27°♐33'24	1.42215 AU
max. Earth dist.	5739 Apr 10 02:16	15°♑02'44	1.40129 AU		5740 Mar 23 15:21	0°♑	
superior conj	5739 Apr 17 21:02	28°♑46'51	-1°48'42	superior conj	5740 Mar 29 13:26	10°♑00'43	-2°05'43
minimum elong	5739 Apr 18 02:10	29°♑10'13	1°48'14	minimum elong	5740 Mar 29 16:41	10°♑14'46	2°05'35
	5739 Apr 18 13:05	0°♒		evening rise	5740 Apr 09 19:16	0°♒00'23	
evening rise	5739 Apr 27 17:49	17°♒15'28			5740 Apr 09 19:11	0°♒	
asc. node	5739 May 01 09:06	24°♒06'36		asc. node	5740 Apr 17 06:08	13°♒17'14	
	5739 May 04 15:09	0°♓		evening max el	5740 Apr 26 07:15	26°♒03'37	18°08'13
evening max el	5739 May 13 21:00	13°♓09'26	18°26'37	retrograde	5740 May 03 01:04	29°♒29'07	
retrograde	5739 May 21 09:24	16°♓53'09		evening set	5740 May 05 14:40	28°♒59'42	
evening set	5739 May 23 16:04	16°♓33'37		inferior conj	5740 May 12 08:41	24°♒06'21	2°45'05
inferior conj	5739 May 31 03:30	12°♓01'02	1°44'19	minimum elong	5740 May 12 11:49	23°♒58'58	2°44'21
minimum elong	5739 May 31 06:40	11°♓54'39	1°43'19	min. Earth dist.	5740 May 15 15:24	21°♒03'33	0.60496 AU
min. Earth dist.	5739 Jun 03 13:30	9°♓17'29	0.58306 AU	morning rise	5740 May 19 06:37	18°♒14'54	
desc. node	5739 Jun 06 09:34	7°♓19'38		desc. node	5740 May 23 06:36	16°♒27'34	
morning rise	5739 Jun 07 18:05	6°♓34'02		direct	5740 May 25 20:54	16°♒08'04	
direct	5739 Jun 13 18:14	5°♓00'23		morning max el	5740 Jun 09 04:16	24°♒03'31	27°44'58

	5740 Jun 14 13:02	0°♂			5741 May 14 18:30	0°♂	
	5740 Jul 04 00:51	0°♂	morning max el		5741 May 22 10:48	6°♂07'36	27°51'33
morning set	5740 Jul 11 12:28	14°♂40'21			5741 Jun 09 12:43	0°♂	
asc. node	5740 Jul 14 05:24	20°♂22'18	morning set		5741 Jun 25 12:26	28°♂49'29	
max. Earth dist.	5740 Jul 17 16:09	27°♂51'19 1.31965 AU			5741 Jun 26 02:20	0°♂	
			max. Earth dist.		5741 Jun 30 22:41	10°♂08'47	1.32461 AU
superior conj	5740 Jul 18 18:21	0°♂15'23 0°45'42	asc. node		5741 Jul 01 02:25	10°♂28'46	
minimum elong	5740 Jul 18 16:30	0°♂05'09 0°45'19					
	5740 Jul 18 15:34	0°♂	superior conj		5741 Jul 03 03:10	14°♂51'57	0°20'57
evening rise	5740 Jul 25 13:25	15°♂06'26	minimum elong		5741 Jul 03 02:11	14°♂46'39	0°20'44
	5740 Aug 01 22:51	0°♂	evening rise		5741 Jul 10 01:08	29°♂52'32	
desc. node	5740 Aug 19 05:52	25°♂47'26			5741 Jul 10 02:33	0°♂	
evening max el	5740 Aug 21 15:09	28°♂13'22 25°24'58			5741 Jul 26 18:44	0°♂	
	5740 Aug 23 14:39	0°♂	evening max el		5741 Aug 03 03:48	8°♂42'55	23°52'09
retrograde	5740 Sep 04 13:29	5°♂17'06	desc. node		5741 Aug 06 02:52	11°♂18'09	
evening set	5740 Sep 10 11:00	3°♂56'44	retrograde		5741 Aug 16 20:40	15°♂36'04	
min. Earth dist.	5740 Sep 15 02:54	1°♂17'43 0.57826 AU	evening set		5741 Aug 21 08:15	14°♂51'47	
	5740 Sep 17 00:19	30°♂	min. Earth dist.		5741 Aug 27 14:04	11°♂50'50	0.56093 AU
inferior conj	5740 Sep 18 04:33	29°♂10'52 -5°14'57	inferior conj		5741 Aug 29 20:52	10°♂27'36	-5°16'16
minimum elong	5740 Sep 18 07:42	29°♂05'24 5°14'42	minimum elong		5741 Aug 29 17:46	10°♂32'20	5°16'03
morning rise	5740 Sep 26 06:42	24°♂55'05	morning rise		5741 Sep 07 05:46	6°♂31'13	
direct	5740 Sep 28 18:15	24°♂36'23	direct		5741 Sep 10 00:31	6°♂11'34	
morning max el	5740 Oct 07 10:44	28°♂44'11 18°54'59	morning max el		5741 Sep 20 03:31	10°♂54'45	19°58'46
	5740 Oct 08 16:35	0°♂	asc. node		5741 Sep 27 01:41	19°♂27'32	
asc. node	5740 Oct 10 04:39	1°♂44'07			5741 Oct 03 04:56	0°♂	
morning set	5740 Oct 24 00:08	25°♂15'59	morning set		5741 Oct 08 04:27	9°♂49'13	
	5740 Oct 26 09:46	0°♂					
			superior conj		5741 Oct 15 22:16	25°♂33'52	1°39'23
superior conj	5740 Nov 01 10:29	11°♂44'21 1°27'39	minimum elong		5741 Oct 15 23:48	25°♂41'29	1°39'19
minimum elong	5740 Nov 01 13:28	11°♂58'37 1°27'23			5741 Oct 18 04:02	0°♂	
max. Earth dist.	5740 Nov 08 09:50	24°♂37'02 1.39086 AU	max. Earth dist.		5741 Oct 21 15:11	6°♂39'56	1.37003 AU
	5740 Nov 11 11:28	0°♂	evening rise		5741 Oct 25 10:09	13°♂39'52	
evening rise	5740 Nov 12 06:49	1°♂23'09	desc. node		5741 Nov 02 02:08	26°♂53'04	
desc. node	5740 Nov 15 05:08	6°♂19'39			5741 Nov 04 00:05	0°♂	
	5740 Nov 30 14:01	0°♂			5741 Nov 25 11:34	0°♂	
evening max el	5740 Dec 17 14:19	21°♂12'51 24°26'14	evening max el		5741 Nov 30 02:52	4°♂56'47	25°39'19
retrograde	5740 Dec 28 23:21	27°♂52'21	retrograde		5741 Dec 12 10:13	12°♂00'08	
evening set	5741 Jan 03 09:38	25°♂36'31	evening set		5741 Dec 18 09:49	9°♂31'35	
asc. node	5741 Jan 06 03:53	22°♂43'31	min. Earth dist.		5741 Dec 22 18:13	4°♂47'16	0.67140 AU
min. Earth dist.	5741 Jan 08 01:19	20°♂17'42 0.67826 AU	inferior conj		5741 Dec 24 01:37	3°♂07'14	0°00'36
inferior conj	5741 Jan 08 21:38	19°♂09'40 0°54'41	minimum elong		5741 Dec 24 01:36	3°♂07'18	0°00'37
minimum elong	5741 Jan 08 20:22	19°♂13'54 0°54'12	transit middle		5741 Dec 24 01:36	3°♂07'18	0°00'37
morning rise	5741 Jan 14 07:14	13°♂08'27	transit begin		5741 Dec 23 22:47	3°♂16'16	
direct	5741 Jan 18 02:30	11°♂45'46	transit end		5741 Dec 24 04:24	2°♂58'20	
morning max el	5741 Jan 25 18:24	16°♂06'13 20°07'21	asc. node		5741 Dec 24 00:55	3°♂09'29	
	5741 Feb 05 17:18	0°♂			5741 Dec 26 15:17	30°♂	
desc. node	5741 Feb 11 04:23	7°♂59'05	morning rise		5741 Dec 29 17:48	27°♂14'01	
morning set	5741 Feb 22 01:58	24°♂32'05	direct		5742 Jan 02 01:17	26°♂10'58	
	5741 Feb 25 14:30	0°♂			5742 Jan 08 23:28	0°♂	
max. Earth dist.	5741 Mar 04 12:53	10°♂56'42 1.43900 AU	morning max el		5742 Jan 09 00:27	0°♂02'28	19°07'57
			greatest brilliancy		5742 Jan 22 20:13	18°♂43'52	-0.8m
superior conj	5741 Mar 10 04:58	20°♂07'32 -2°08'42	desc. node		5742 Jan 29 01:23	28°♂17'20	
minimum elong	5741 Mar 10 02:58	19°♂59'19 2°08'40			5742 Jan 30 03:54	0°♂	
	5741 Mar 16 03:29	0°♂	morning set		5742 Feb 01 04:18	3°♂07'49	
evening rise	5741 Mar 23 03:03	11°♂56'02	max. Earth dist.		5742 Feb 15 03:48	24°♂57'33	1.44990 AU
	5741 Apr 02 20:01	0°♂					
asc. node	5741 Apr 04 03:09	1°♂59'24	superior conj		5742 Feb 17 20:36	29°♂13'15	-1°52'42
evening max el	5741 Apr 09 20:02	9°♂17'07 18°09'06	minimum elong		5742 Feb 17 12:29	28°♂41'07	1°52'06
retrograde	5741 Apr 16 06:14	12°♂39'28			5742 Feb 18 08:25	0°♂	
evening set	5741 Apr 19 02:17	11°♂58'30	evening rise		5742 Mar 04 12:59	22°♂54'30	
inferior conj	5741 Apr 25 06:54	6°♂45'39 3°18'36			5742 Mar 08 20:25	0°♂	
minimum elong	5741 Apr 25 08:43	6°♂40'47 3°18'21	asc. node		5742 Mar 22 00:10	20°♂03'45	
min. Earth dist.	5741 Apr 28 02:07	3°♂47'38 0.62661 AU	evening max el		5742 Mar 24 08:25	22°♂42'19	18°28'37
morning rise	5741 May 01 13:43	0°♂39'48	retrograde		5742 Mar 30 20:20	26°♂14'39	
	5741 May 02 12:30	30°♂	evening set		5742 Apr 02 22:53	25°♂20'59	
direct	5741 May 08 09:38	28°♂06'27	inferior conj		5742 Apr 08 17:59	19°♂50'15	3°30'45
desc. node	5741 May 10 03:37	28°♂15'43	minimum elong		5742 Apr 08 18:14	19°♂49'30	3°30'44

min. Earth dist.	5742 Apr 10 22:13	17° $\Upsilon$ 16'34	0.64576 AU	minimum elong	5743 Mar 23 13:14	3° $\Upsilon$ 16'53	3°26'29
morning rise	5742 Apr 14 12:49	13° $\Upsilon$ 37'31		min. Earth dist.	5743 Mar 25 03:01	1° $\Upsilon$ 16'34	0.66112 AU
direct	5742 Apr 21 06:34	10° $\Upsilon$ 49'53			5743 Mar 26 03:56	30° $\Re$ $\mathfrak{H}$	
desc. node	5742 Apr 27 00:38	12° $\Upsilon$ 30'43		morning rise	5743 Mar 29 00:40	26° $\mathfrak{H}$ 58'28	
morning max el	5742 May 04 20:22	18° $\Upsilon$ 46'17	27°22'18	direct	5743 Apr 04 10:13	24° $\mathfrak{H}$ 10'02	
	5742 May 14 08:04	0° $\mathfrak{B}$		desc. node	5743 Apr 13 21:41	28° $\mathfrak{H}$ 40'07	
	5742 Jun 02 11:40	0° $\Pi$			5743 Apr 15 09:50	0° $\Upsilon$	
morning set	5742 Jun 09 03:58	12° $\Pi$ 30'46		morning max el	5743 Apr 17 06:19	1° $\Upsilon$ 47'45	26°23'52
max. Earth dist.	5742 Jun 13 21:05	21° $\Pi$ 59'19	1.33413 AU		5743 May 08 10:59	0° $\mathfrak{B}$	
				morning set	5743 May 23 07:33	25° $\mathfrak{B}$ 33'44	
superior conj	5742 Jun 17 07:39	29° $\Pi$ 11'32	-0°06'49		5743 May 25 15:32	0° $\Pi$	
minimum elong	5742 Jun 17 08:00	29° $\Pi$ 13'24	0°06'46	max. Earth dist.	5743 May 27 08:36	3° $\Pi$ 19'40	1.34844 AU
behind sun begin	5742 Jun 17 02:59	28° $\Pi$ 46'50					
behind sun end	5742 Jun 17 13:00	29° $\Pi$ 40'00		superior conj	5743 Jun 01 05:28	13° $\Pi$ 07'03	-0°36'32
asc. node	5742 Jun 17 23:27	0° $\mathfrak{B}$ 35'33		minimum elong	5743 Jun 01 07:29	13° $\Pi$ 17'25	0°36'10
	5742 Jun 17 16:46	0° $\mathfrak{B}$		asc. node	5743 Jun 04 20:30	20° $\Pi$ 38'20	
evening rise	5742 Jun 24 12:23	14° $\mathfrak{B}$ 33'15		evening rise	5743 Jun 08 21:10	29° $\Pi$ 02'18	
	5742 Jul 02 07:01	0° $\Omega$			5743 Jun 09 08:21	0° $\mathfrak{B}$	
evening max el	5742 Jul 15 17:57	19° $\Omega$ 03'46	22°14'42	evening max el	5743 Jun 27 17:20	29° $\mathfrak{B}$ 47'18	20°46'39
desc. node	5742 Jul 23 23:52	24° $\Omega$ 37'55			5743 Jun 27 22:34	0° $\Omega$	
retrograde	5742 Jul 28 15:46	25° $\Omega$ 28'27		retrograde	5743 Jul 09 03:57	5° $\Omega$ 24'50	
evening set	5742 Jul 31 15:39	25° $\Omega$ 08'35		desc. node	5743 Jul 10 20:54	5° $\Omega$ 17'48	
min. Earth dist.	5742 Aug 09 00:01	21° $\Omega$ 31'53	0.55002 AU	evening set	5743 Jul 11 06:20	5° $\Omega$ 14'15	
inferior conj	5742 Aug 09 20:21	21° $\Omega$ 03'14	-4°27'20	inferior conj	5743 Jul 20 13:20	1° $\Omega$ 17'21	-2°50'02
minimum elong	5742 Aug 09 11:52	21° $\Omega$ 15'12	4°25'27	minimum elong	5743 Jul 20 05:40	1° $\Omega$ 28'15	2°47'27
morning rise	5742 Aug 18 09:49	17° $\Omega$ 13'35		min. Earth dist.	5743 Jul 21 10:44	0° $\Omega$ 46'53	0.54811 AU
direct	5742 Aug 21 14:38	16° $\Omega$ 50'35			5743 Jul 22 20:11	30° $\Re$ $\mathfrak{B}$	
morning max el	5742 Sep 02 08:02	22° $\Omega$ 19'29	21°23'26	morning rise	5743 Jul 29 04:45	27° $\mathfrak{B}$ 15'32	
	5742 Sep 08 21:26	0° $\mathfrak{P}$		direct	5743 Aug 01 23:49	26° $\mathfrak{B}$ 44'36	
asc. node	5742 Sep 13 22:44	7° $\mathfrak{P}$ 56'40			5743 Aug 11 08:30	0° $\Omega$	
morning set	5742 Sep 22 13:11	24° $\mathfrak{P}$ 34'56		morning max el	5743 Aug 15 02:08	3° $\Omega$ 01'54	23°03'39
	5742 Sep 25 03:15	0° $\mathfrak{L}$		asc. node	5743 Aug 31 19:47	26° $\Omega$ 59'35	
					5743 Sep 02 09:18	0° $\mathfrak{P}$	
superior conj	5742 Sep 29 20:15	9° $\mathfrak{L}$ 53'12	1°43'06	morning set	5743 Sep 07 00:19	9° $\mathfrak{P}$ 26'26	
minimum elong	5742 Sep 29 20:17	9° $\mathfrak{L}$ 53'26	1°43'06				
max. Earth dist.	5742 Oct 04 01:59	18° $\mathfrak{L}$ 32'20	1.35170 AU	superior conj	5743 Sep 14 01:04	24° $\mathfrak{P}$ 31'31	1°40'01
evening rise	5742 Oct 08 07:30	26° $\mathfrak{L}$ 46'46		minimum elong	5743 Sep 13 23:55	24° $\mathfrak{P}$ 25'20	1°39'57
	5742 Oct 10 00:43	0° $\mathfrak{M}$			5743 Sep 16 14:57	0° $\mathfrak{L}$	
desc. node	5742 Oct 19 23:10	17° $\mathfrak{M}$ 13'16		max. Earth dist.	5743 Sep 16 21:29	0° $\mathfrak{L}$ 34'16	1.33709 AU
	5742 Oct 28 08:48	0° $\mathfrak{J}$		evening rise	5743 Sep 21 18:33	10° $\mathfrak{L}$ 31'28	
evening max el	5742 Nov 12 15:46	18° $\mathfrak{J}$ 38'36	26°38'35		5743 Oct 02 09:39	0° $\mathfrak{M}$	
retrograde	5742 Nov 25 15:47	25° $\mathfrak{J}$ 54'05		desc. node	5743 Oct 06 20:11	7° $\mathfrak{M}$ 13'06	
evening set	5742 Dec 02 03:57	23° $\mathfrak{J}$ 17'06			5743 Oct 24 01:12	0° $\mathfrak{J}$	
min. Earth dist.	5742 Dec 06 05:51	19° $\mathfrak{J}$ 07'46	0.66106 AU	evening max el	5743 Oct 26 04:30	2° $\mathfrak{J}$ 08'05	27°16'44
inferior conj	5742 Dec 08 00:39	17° $\mathfrak{J}$ 00'33	-0°58'53	retrograde	5743 Nov 08 15:18	9° $\mathfrak{J}$ 26'07	
minimum elong	5742 Dec 08 02:18	16° $\mathfrak{J}$ 55'39	0°58'09	evening set	5743 Nov 15 13:42	6° $\mathfrak{J}$ 47'15	
asc. node	5742 Dec 10 21:57	13° $\mathfrak{J}$ 46'25		min. Earth dist.	5743 Nov 19 09:46	3° $\mathfrak{J}$ 12'32	0.64726 AU
morning rise	5742 Dec 14 01:27	11° $\mathfrak{J}$ 17'50		inferior conj	5743 Nov 21 16:25	0° $\mathfrak{J}$ 44'01	-2°02'15
direct	5742 Dec 16 23:08	10° $\mathfrak{J}$ 30'46		minimum elong	5743 Nov 21 20:01	0° $\mathfrak{J}$ 34'15	2°00'46
morning max el	5742 Dec 23 12:47	14° $\mathfrak{J}$ 04'16	18°24'34		5743 Nov 22 08:41	30° $\Re$ $\mathfrak{M}$	
	5743 Jan 04 03:17	0° $\mathfrak{B}$		asc. node	5743 Nov 27 19:01	25° $\mathfrak{M}$ 25'01	
morning set	5743 Jan 12 07:43	13° $\mathfrak{B}$ 02'28		morning rise	5743 Nov 28 03:33	25° $\mathfrak{M}$ 14'55	
desc. node	5743 Jan 15 22:26	18° $\mathfrak{B}$ 48'50		direct	5743 Nov 30 17:42	24° $\mathfrak{M}$ 39'56	
	5743 Jan 22 23:48	0° $\approx$		morning max el	5743 Dec 07 04:52	28° $\mathfrak{M}$ 05'10	17°58'04
					5743 Dec 08 22:58	0° $\mathfrak{J}$	
superior conj	5743 Jan 28 00:03	7° $\approx$ 52'33	-1°17'50	morning set	5743 Dec 24 16:42	24° $\mathfrak{J}$ 25'06	
minimum elong	5743 Jan 27 15:09	7° $\approx$ 17'39	1°16'47		5743 Dec 28 01:03	0° $\mathfrak{B}$	
max. Earth dist.	5743 Jan 28 22:22	9° $\approx$ 20'01	1.45371 AU	desc. node	5744 Jan 02 19:28	9° $\mathfrak{B}$ 29'07	
	5743 Feb 11 02:40	0° $\mathfrak{H}$					
evening rise	5743 Feb 12 23:39	2° $\mathfrak{H}$ 57'08		superior conj	5744 Jan 07 11:16	16° $\mathfrak{B}$ 59'54	-0°32'16
greatest brilliancy	5743 Feb 23 03:12	18° $\mathfrak{H}$ 53'30	-0.8m	minimum elong	5744 Jan 07 07:22	16° $\mathfrak{B}$ 44'22	0°31'42
	5743 Mar 02 15:12	0° $\Upsilon$		max. Earth dist.	5744 Jan 11 17:59	23° $\mathfrak{B}$ 47'50	1.45004 AU
evening max el	5743 Mar 07 18:02	6° $\Upsilon$ 13'55	19°05'45		5744 Jan 15 16:50	0° $\approx$	
asc. node	5743 Mar 08 21:13	7° $\Upsilon$ 19'06		evening rise	5744 Jan 23 15:56	12° $\approx$ 20'28	
retrograde	5743 Mar 14 15:48	10° $\Upsilon$ 07'49			5744 Feb 04 06:11	0° $\mathfrak{H}$	
evening set	5743 Mar 18 01:25	9° $\Upsilon$ 00'35		greatest brilliancy	5744 Feb 07 01:36	4° $\mathfrak{H}$ 10'20	-0.6m
inferior conj	5743 Mar 23 14:17	3° $\Upsilon$ 13'30	3°26'34	evening max el	5744 Feb 18 23:06	19° $\mathfrak{H}$ 48'20	19°58'50

asc. node	5744 Feb 23 18:15	23° $\text{K}$ 31'58		retrograde	5745 Feb 09 11:57	8° $\text{K}$ 26'52	
retrograde	5744 Feb 26 13:45	24° $\text{K}$ 13'38		asc. node	5745 Feb 09 15:19	8° $\text{K}$ 26'46	
evening set	5744 Mar 01 07:31	22° $\text{K}$ 52'03		evening set	5745 Feb 13 15:12	6° $\text{K}$ 50'18	
inferior conj	5744 Mar 06 16:51	16° $\text{K}$ 50'37	3°09'43	inferior conj	5745 Feb 18 23:10	0° $\text{K}$ 37'02	2°42'32
minimum elong	5744 Mar 06 14:54	16° $\text{K}$ 57'08	3°09'23	minimum elong	5745 Feb 18 20:49	0° $\text{K}$ 45'09	2°41'56
min. Earth dist.	5744 Mar 07 15:03	15° $\text{K}$ 36'03	0.67215 AU		5745 Feb 19 09:52	30° $\text{R}$ $\approx$	
morning rise	5744 Mar 11 22:05	10° $\text{K}$ 35'43		min. Earth dist.	5745 Feb 19 08:15	0° $\text{K}$ 05'38	0.67892 AU
direct	5744 Mar 17 19:26	7° $\text{K}$ 57'47		morning rise	5745 Feb 24 02:16	24° $\approx$ 23'52	
morning max el	5744 Mar 29 15:25	15° $\text{K}$ 02'17	25°05'30	direct	5745 Mar 01 09:29	22° $\approx$ 03'59	
desc. node	5744 Mar 30 18:43	16° $\text{K}$ 13'08		morning max el	5745 Mar 12 00:20	28° $\approx$ 23'25	23°37'12
	5744 Apr 10 21:44	0° $\text{Y}$			5745 Mar 13 13:15	0° $\text{K}$	
	5744 Apr 30 07:57	0° $\text{B}$		desc. node	5745 Mar 17 15:45	4° $\text{K}$ 45'21	
morning set	5744 May 04 18:33	7° $\text{B}$ 45'52			5745 Apr 04 15:13	0° $\text{Y}$	
max. Earth dist.	5744 May 08 09:53	14° $\text{B}$ 23'54	1.36708 AU	morning set	5745 Apr 16 07:06	18° $\text{Y}$ 50'48	
				max. Earth dist.	5745 Apr 20 05:38	25° $\text{Y}$ 39'18	1.38854 AU
					5745 Apr 22 16:16	0° $\text{B}$	
superior conj	5744 May 14 17:42	26° $\text{B}$ 30'56	-1°06'40				
minimum elong	5744 May 14 21:28	26° $\text{B}$ 49'31	1°06'03	superior conj	5745 Apr 27 16:31	9° $\text{B}$ 12'26	-1°34'48
	5744 May 16 11:53	0° $\text{II}$		minimum elong	5745 Apr 27 21:33	9° $\text{B}$ 36'03	1°34'11
asc. node	5744 May 21 17:33	10° $\text{II}$ 33'17		evening rise	5745 May 06 21:47	26° $\text{B}$ 57'39	
evening rise	5744 May 23 01:15	13° $\text{II}$ 13'20			5745 May 08 11:25	0° $\text{II}$	
	5744 May 31 22:32	0° $\text{E}$		asc. node	5745 May 08 14:34	0° $\text{II}$ 15'10	
evening max el	5744 Jun 09 05:17	11° $\text{E}$ 11'26	19°36'11	evening max el	5745 May 23 04:30	23° $\text{II}$ 16'36	18°46'07
retrograde	5744 Jun 18 22:24	15° $\text{E}$ 56'54		retrograde	5745 May 31 09:20	27° $\text{II}$ 18'50	
evening set	5744 Jun 20 20:14	15° $\text{E}$ 46'39		evening set	5745 Jun 02 11:45	27° $\text{II}$ 03'55	
desc. node	5744 Jun 26 17:56	13° $\text{E}$ 26'35		inferior conj	5745 Jun 10 10:33	22° $\text{II}$ 42'49	0°55'23
inferior conj	5744 Jun 29 14:32	11° $\text{E}$ 42'28	-0°51'32	minimum elong	5745 Jun 10 12:36	22° $\text{II}$ 39'03	0°54'39
minimum elong	5744 Jun 29 12:12	11° $\text{E}$ 46'09	0°50'39	min. Earth dist.	5745 Jun 13 16:10	20° $\text{II}$ 21'08	0.57151 AU
min. Earth dist.	5744 Jul 01 23:34	10° $\text{E}$ 12'45	0.55581 AU	desc. node	5745 Jun 13 14:58	20° $\text{II}$ 23'15	
morning rise	5744 Jul 08 01:47	7° $\text{E}$ 10'27		morning rise	5745 Jun 18 10:04	17° $\text{II}$ 34'00	
direct	5744 Jul 12 16:13	6° $\text{E}$ 23'17		direct	5745 Jun 23 22:27	16° $\text{II}$ 19'37	
morning max el	5744 Jul 26 15:39	13° $\text{E}$ 22'35	24°47'39	morning max el	5745 Jul 08 07:01	23° $\text{II}$ 49'59	26°19'23
	5744 Aug 08 14:15	0° $\text{Q}$			5745 Jul 13 21:15	0° $\text{E}$	
asc. node	5744 Aug 17 16:51	16° $\text{Q}$ 27'33			5745 Aug 01 12:13	0° $\text{Q}$	
morning set	5744 Aug 21 12:05	24° $\text{Q}$ 18'38		asc. node	5745 Aug 04 13:53	6° $\text{Q}$ 13'12	
	5744 Aug 24 03:36	0° $\text{P}$		morning set	5745 Aug 05 22:53	9° $\text{Q}$ 06'13	
superior conj	5744 Aug 28 10:13	9° $\text{P}$ 20'59	1°31'03				
minimum elong	5744 Aug 28 08:17	9° $\text{P}$ 10'22	1°30'51	superior conj	5745 Aug 12 21:35	24° $\text{Q}$ 14'47	1°16'57
max. Earth dist.	5744 Aug 30 01:11	12° $\text{P}$ 53'08	1.32667 AU	minimum elong	5745 Aug 12 19:19	24° $\text{Q}$ 02'11	1°16'37
evening rise	5744 Sep 04 15:38	24° $\text{P}$ 43'48		max. Earth dist.	5745 Aug 13 10:15	25° $\text{Q}$ 24'42	1.32052 AU
	5744 Sep 07 06:34	0° $\text{A}$			5745 Aug 15 12:20	0° $\text{P}$	
desc. node	5744 Sep 22 17:12	26° $\text{A}$ 43'58		evening rise	5745 Aug 19 19:44	9° $\text{P}$ 14'56	
	5744 Sep 24 23:02	0° $\text{M}$			5745 Aug 30 14:40	0° $\text{A}$	
evening max el	5744 Oct 07 15:05	15° $\text{M}$ 12'01	27°27'07	desc. node	5745 Sep 09 14:13	15° $\text{A}$ 34'06	
retrograde	5744 Oct 21 08:14	22° $\text{M}$ 27'35		evening max el	5745 Sep 19 20:59	27° $\text{A}$ 37'30	27°05'10
evening set	5744 Oct 28 12:06	19° $\text{M}$ 56'01			5745 Sep 22 14:08	0° $\text{M}$	
min. Earth dist.	5744 Nov 01 03:57	16° $\text{M}$ 52'22	0.63020 AU	retrograde	5745 Oct 03 17:59	4° $\text{M}$ 49'16	
inferior conj	5744 Nov 03 22:10	14° $\text{M}$ 11'00	-3°06'50	evening set	5745 Oct 10 19:16	2° $\text{M}$ 36'43	
minimum elong	5744 Nov 04 03:38	13° $\text{M}$ 57'39	3°04'54		5745 Oct 14 09:07	30° $\text{R}$ $\text{A}$	
morning rise	5744 Nov 10 20:51	8° $\text{M}$ 59'02		min. Earth dist.	5745 Oct 14 11:26	29° $\text{A}$ 55'12	0.61050 AU
direct	5744 Nov 13 05:59	8° $\text{M}$ 32'31		inferior conj	5745 Oct 17 14:41	27° $\text{A}$ 13'29	-4°07'55
asc. node	5744 Nov 13 16:06	8° $\text{M}$ 33'22		minimum elong	5745 Oct 17 21:10	26° $\text{A}$ 59'29	4°06'11
morning max el	5744 Nov 19 21:47	11° $\text{M}$ 58'12	17°49'07	morning rise	5745 Oct 25 01:08	22° $\text{A}$ 21'57	
	5744 Dec 02 02:36	0° $\text{X}$		direct	5745 Oct 27 08:12	22° $\text{A}$ 00'42	
morning set	5744 Dec 06 02:10	6° $\text{X}$ 58'16		asc. node	5745 Oct 31 13:08	23° $\text{A}$ 15'18	
				morning max el	5745 Nov 03 12:18	25° $\text{A}$ 35'31	17°58'44
superior conj	5744 Dec 17 21:24	27° $\text{X}$ 15'49	0°12'44		5745 Nov 07 05:35	0° $\text{M}$	
minimum elong	5744 Dec 17 22:41	27° $\text{X}$ 21'09	0°12'34	morning set	5745 Nov 19 05:40	20° $\text{M}$ 22'55	
behind sun begin	5744 Dec 17 16:50	26° $\text{X}$ 56'46			5745 Nov 24 11:31	0° $\text{X}$	
behind sun end	5744 Dec 18 04:32	27° $\text{X}$ 45'29					
desc. node	5744 Dec 19 16:29	0° $\text{Z}$ 14'21		superior conj	5745 Nov 29 09:55	8° $\text{X}$ 48'52	0°49'49
	5744 Dec 19 13:00	0° $\text{Z}$		minimum elong	5745 Nov 29 13:34	9° $\text{X}$ 04'49	0°49'21
max. Earth dist.	5744 Dec 24 11:23	8° $\text{Z}$ 01'51	1.43940 AU	desc. node	5745 Dec 06 13:29	21° $\text{X}$ 01'32	
evening rise	5745 Jan 02 02:22	21° $\text{Z}$ 36'18		max. Earth dist.	5745 Dec 06 23:57	21° $\text{X}$ 44'58	1.42308 AU
	5745 Jan 07 14:15	0° $\approx$			5745 Dec 12 01:43	0° $\text{Z}$	
	5745 Jan 28 21:25	0° $\text{K}$		evening rise	5745 Dec 12 22:43	1° $\text{Z}$ 23'35	
evening max el	5745 Jan 31 22:34	3° $\text{K}$ 23'06	21°05'14		5746 Jan 01 02:17	0° $\approx$	

evening max el	5746 Jan 14 16:52	16°  59'52	22°20'59	evening max el	5746 Dec 28 07:32	0°  40'09	23°40'55
retrograde	5746 Jan 24 08:35	22°  44'19		retrograde	5747 Jan 08 02:11	7°  01'38	
asc. node	5746 Jan 27 12:20	21°  52'13		evening set	5747 Jan 13 04:45	4°  54'30	
evening set	5746 Jan 28 22:48	20°  52'24		asc. node	5747 Jan 14 09:22	3°  47'13	
inferior conj	5746 Feb 03 07:12	14°  30'41	2°06'37		5747 Jan 17 12:08	30°  R 	
minimum elong	5746 Feb 03 04:55	14°  38'39	2°05'52	min. Earth dist.	5747 Jan 18 01:10	29°  315'52	0.68059 AU
min. Earth dist.	5746 Feb 03 04:25	14°  40'22	0.68166 AU	inferior conj	5747 Jan 18 15:06	28°  328'17	1°22'59
morning rise	5746 Feb 08 10:53	8°  20'37		minimum elong	5747 Jan 18 13:19	28°  334'20	1°22'19
direct	5746 Feb 13 03:34	6°  22'37		morning rise	5747 Jan 23 21:51	22°  323'06	
morning max el	5746 Feb 22 11:52	11°  51'50	22°08'43	direct	5747 Jan 28 00:38	20°  347'44	
desc. node	5746 Mar 04 12:46	24°  00'36		morning max el	5747 Feb 05 05:27	25°  330'30	20°48'00
	5746 Mar 08 20:26	0°  X			5747 Feb 09 05:48	0°  ≈	
morning set	5746 Mar 27 15:59	28°  X36'32		desc. node	5747 Feb 19 09:47	13°  ≈46'44	
	5746 Mar 28 12:35	0°  Y			5747 Mar 02 06:57	0°  X	
max. Earth dist.	5746 Apr 02 02:56	7°  Y35'44	1.41044 AU	morning set	5747 Mar 06 22:27	7°  X10'25	
				max. Earth dist.	5747 Mar 15 07:05	20°  X27'42	1.42993 AU
superior conj	5746 Apr 09 21:23	21°  Y01'21	-1°57'16		5747 Mar 21 01:59	0°  Y	
minimum elong	5746 Apr 10 02:06	21°  Y22'22	1°56'56				
	5746 Apr 14 20:31	0°  8		superior conj	5747 Mar 22 03:32	1°  Y47'19	-2°09'03
evening rise	5746 Apr 20 07:20	10°  806'50		minimum elong	5747 Mar 22 04:57	1°  Y53'17	2°09'02
asc. node	5746 Apr 25 11:35	19°  839'03		evening rise	5747 Apr 03 01:46	22°  Y31'30	
	5746 May 01 17:05	0°  II			5747 Apr 07 06:57	0°  8	
evening max el	5746 May 06 11:48	5°  II55'52	18°16'25	asc. node	5747 Apr 12 08:36	8°  838'41	
retrograde	5746 May 13 15:02	9°  II30'03		evening max el	5747 Apr 19 23:34	18°  859'46	18°06'23
evening set	5746 May 16 00:35	9°  II06'43		retrograde	5747 Apr 26 12:49	22°  821'53	
inferior conj	5746 May 23 04:11	4°  II25'31	2°13'45	evening set	5747 Apr 29 05:16	21°  847'41	
minimum elong	5746 May 23 07:36	4°  II18'11	2°12'46	inferior conj	5747 May 05 17:05	16°  846'10	3°02'15
min. Earth dist.	5746 May 26 14:18	1°  II30'22	0.59218 AU	minimum elong	5747 May 05 19:45	16°  839'33	3°01'45
	5746 May 28 13:37	30°  R 		min. Earth dist.	5747 May 08 19:46	13°  842'28	0.61435 AU
morning rise	5746 May 30 11:39	28°  846'30		morning rise	5747 May 12 08:18	10°  847'44	
desc. node	5746 May 31 11:59	28°  814'39		desc. node	5747 May 18 09:01	8°  829'35	
direct	5746 Jun 05 18:45	26°  858'09		direct	5747 May 19 02:15	8°  828'03	
	5746 Jun 14 09:27	0°  II		morning max el	5747 Jun 02 07:15	16°  827'05	27°52'25
morning max el	5746 Jun 20 04:00	4°  II47'50	27°23'52		5747 Jun 13 10:43	0°  II	
	5746 Jul 08 18:20	0°  ☿			5747 Jul 01 09:15	0°  ☿	
morning set	5746 Jul 21 06:59	23°  ☿43'47		morning set	5747 Jul 05 10:34	8°  ☿05'30	
asc. node	5746 Jul 22 10:52	26°  ☿10'48		asc. node	5747 Jul 09 07:52	16°  ☿15'37	
	5746 Jul 24 05:37	0°  ♁		max. Earth dist.	5747 Jul 11 06:33	20°  ☿27'50	1.32116 AU
superior conj	5746 Jul 28 09:21	9°  ♁06'47	0°58'19	superior conj	5747 Jul 12 19:47	23°  ☿51'12	0°35'39
minimum elong	5746 Jul 28 07:12	8°  ♁54'54	0°57'55	minimum elong	5747 Jul 12 18:14	23°  ☿42'45	0°35'19
max. Earth dist.	5746 Jul 27 21:17	8°  ♁00'05	1.31868 AU		5747 Jul 15 14:56	0°  ♁	
evening rise	5746 Aug 04 04:24	23°  ♁57'24		evening rise	5747 Jul 19 15:35	8°  ♁44'35	
	5746 Aug 07 02:00	0°  ♐			5747 Jul 30 14:03	0°  ♐	
	5746 Aug 24 18:21	0°  ♐		desc. node	5747 Aug 14 08:15	19°  ♐58'02	
desc. node	5746 Aug 27 11:14	3°  ♐26'28		evening max el	5747 Aug 14 11:40	20°  ♐06'15	24°47'19
evening max el	5746 Sep 01 19:58	9°  ♐15'08	26°09'58	retrograde	5747 Aug 28 08:57	27°  ♐06'22	
retrograde	5746 Sep 15 19:02	16°  ♐22'28		evening set	5747 Sep 02 17:02	26°  ♐02'18	
evening set	5746 Sep 22 06:16	14°  ♐41'01		min. Earth dist.	5747 Sep 07 23:00	23°  ♐15'49	0.57034 AU
min. Earth dist.	5746 Sep 26 08:59	12°  ♐06'11	0.58972 AU	inferior conj	5747 Sep 10 18:26	21°  ♐26'02	-5°20'55
inferior conj	5746 Sep 29 14:23	9°  ♐41'18	-4°57'09	minimum elong	5747 Sep 10 19:13	21°  ♐24'45	5°20'54
minimum elong	5746 Sep 29 19:44	9°  ♐31'13	4°56'18	morning rise	5747 Sep 18 23:42	17°  ♐18'56	
morning rise	5746 Oct 07 11:27	5°  ♐12'15		direct	5747 Sep 21 13:56	17°  ♐00'02	
direct	5746 Oct 09 20:04	4°  ♐53'25		morning max el	5747 Sep 30 20:14	21°  ♐21'50	19°19'17
morning max el	5746 Oct 17 20:56	8°  ♐46'40	18°28'17	asc. node	5747 Oct 05 07:11	26°  ♐31'08	
asc. node	5746 Oct 18 10:09	9°  ♐19'28			5747 Oct 07 16:27	0°  ♐	
	5746 Oct 31 14:51	0°  ♐		morning set	5747 Oct 17 22:33	18°  ♐46'30	
morning set	5746 Nov 02 21:47	4°  ♐22'40			5747 Oct 23 13:19	0°  ♐	
superior conj	5746 Nov 11 20:55	21°  ♐26'30	1°16'43	superior conj	5747 Oct 26 01:04	4°  ♐53'48	1°33'40
minimum elong	5746 Nov 12 00:32	21°  ♐43'13	1°16'20	minimum elong	5747 Oct 26 03:28	5°  ♐05'30	1°33'30
	5746 Nov 16 14:06	0°  ♐		max. Earth dist.	5747 Nov 01 12:28	17°  ♐07'42	1.38193 AU
max. Earth dist.	5746 Nov 19 07:24	4°  ♐46'13	1.40310 AU	evening rise	5747 Nov 05 06:41	23°  ♐51'07	
desc. node	5746 Nov 23 10:30	11°  ♐46'36			5747 Nov 08 20:37	0°  ♐	
evening rise	5746 Nov 23 15:20	12°  ♐06'42		desc. node	5747 Nov 10 07:31	2°  ♐25'39	
	5746 Dec 04 22:54	0°  ♐			5747 Nov 28 17:05	0°  ♐	
	5746 Dec 27 15:42	0°  ≈		evening max el	5747 Dec 10 20:34	14°  ♐24'10	24°58'31

retrograde	5747 Dec 22 15:35	21°♄14'30		evening rise	5748 Oct 17 18:11	6°♄30'20	
evening set	5747 Dec 28 07:32	18°♄53'10		desc. node	5748 Oct 27 04:33	22°♄54'17	
asc. node	5748 Jan 01 06:24	14°♄33'13			5748 Oct 31 15:43	0°♄	
min. Earth dist.	5748 Jan 01 20:08	13°♄48'48	0.67585 AU	evening max el	5748 Nov 22 09:20	28°♄08'37	26°06'36
inferior conj	5748 Jan 02 21:03	12°♄26'58	0°32'29		5748 Nov 24 09:35	0°♄	
minimum elong	5748 Jan 02 20:15	12°♄29'34	0°32'11	retrograde	5748 Dec 05 00:09	5°♄17'42	
morning rise	5748 Jan 08 09:10	6°♄28'42		evening set	5748 Dec 11 05:25	2°♄44'51	
direct	5748 Jan 11 23:18	5°♄14'34			5748 Dec 13 23:44	30°♄♂	
morning max el	5748 Jan 19 07:00	9°♄20'58	19°40'05	min. Earth dist.	5748 Dec 15 11:00	28°♄15'37	0.66750 AU
greatest brilliancy	5748 Feb 01 06:51	26°♄25'44	-0.7m	inferior conj	5748 Dec 16 23:12	26°♄23'27	-0°24'02
	5748 Feb 03 16:24	0°♄		minimum elong	5748 Dec 16 23:51	26°♄21'27	0°23'44
desc. node	5748 Feb 06 06:49	3°♄55'18		asc. node	5748 Dec 18 03:28	24°♄57'00	
morning set	5748 Feb 13 18:56	15°♄24'16		morning rise	5748 Dec 22 18:50	20°♄34'32	
	5748 Feb 23 03:52	0°♄		direct	5748 Dec 25 22:00	19°♄38'39	
max. Earth dist.	5748 Feb 25 19:08	4°♄09'57	1.44453 AU	morning max el	5749 Jan 01 16:03	23°♄20'46	18°47'30
					5749 Jan 07 04:06	0°♄	
superior conj	5748 Mar 01 08:16	11°♄26'06	-2°04'24	morning set	5749 Jan 23 06:31	24°♄30'36	
minimum elong	5748 Mar 01 03:25	11°♄06'33	2°04'12	desc. node	5749 Jan 23 03:50	24°♄20'06	
	5748 Mar 12 14:55	0°♄			5749 Jan 26 18:30	0°♄	
evening rise	5748 Mar 15 00:37	4°♄03'04		max. Earth dist.	5749 Feb 07 12:39	18°♄25'04	1.45246 AU
asc. node	5748 Mar 29 05:38	27°♄05'57					
	5748 Mar 31 10:38	0°♄		superior conj	5749 Feb 08 16:36	20°♄14'49	-1°39'54
evening max el	5748 Apr 02 12:33	2°♄19'09	18°15'13	minimum elong	5749 Feb 08 07:14	19°♄38'01	1°39'01
retrograde	5748 Apr 08 22:13	5°♄43'54			5749 Feb 14 20:59	0°♄	
evening set	5748 Apr 11 21:08	4°♄57'27		evening rise	5749 Feb 24 00:40	14°♄37'59	
inferior conj	5748 Apr 17 21:13	29°♄36'43	3°26'01	greatest brilliancy	5749 Mar 02 13:36	25°♄10'33	-0.9m
minimum elong	5748 Apr 17 22:22	29°♄33'31	3°25'55		5749 Mar 05 14:13	0°♄	
	5748 Apr 17 12:51	30°♄♂		asc. node	5749 Mar 16 02:42	14°♄51'25	
min. Earth dist.	5748 Apr 20 10:13	26°♄47'22	0.63518 AU	evening max el	5749 Mar 17 00:02	15°♄47'54	18°42'16
morning rise	5748 Apr 23 22:33	23°♄27'32		retrograde	5749 Mar 23 15:10	19°♄28'11	
direct	5748 Apr 30 18:29	20°♄46'39		evening set	5749 Mar 26 20:38	18°♄28'44	
desc. node	5748 May 04 06:04	21°♄23'32		inferior conj	5749 Apr 01 12:41	12°♄50'31	3°30'42
morning max el	5748 May 14 15:13	28°♄46'18	27°43'16	minimum elong	5749 Apr 01 12:20	12°♄51'35	3°30'42
	5748 May 15 19:50	0°♄		min. Earth dist.	5749 Apr 03 10:09	10°♄31'39	0.65280 AU
	5748 Jun 06 07:19	0°♄		morning rise	5749 Apr 07 03:30	6°♄36'20	
morning set	5748 Jun 18 07:16	22°♄03'22		direct	5749 Apr 13 18:13	3°♄47'10	
	5748 Jun 22 04:36	0°♄		desc. node	5749 Apr 21 03:06	6°♄31'43	
max. Earth dist.	5748 Jun 23 10:08	2°♄35'05	1.32809 AU	morning max el	5749 Apr 27 01:26	11°♄37'06	27°00'34
asc. node	5748 Jun 25 04:54	6°♄22'32			5749 May 11 16:36	0°♄	
					5749 May 29 20:24	0°♄	
superior conj	5748 Jun 26 02:58	8°♄21'05	0°09'32	morning set	5749 Jun 01 18:11	5°♄29'29	
minimum elong	5748 Jun 26 02:31	8°♄18'35	0°09'24	max. Earth dist.	5749 Jun 06 04:24	14°♄13'38	1.33970 AU
behind sun begin	5748 Jun 25 22:11	7°♄55'17					
behind sun end	5748 Jun 26 06:50	8°♄41'55		superior conj	5749 Jun 10 04:54	22°♄30'50	-0°19'15
evening rise	5748 Jul 03 03:20	23°♄29'08		minimum elong	5749 Jun 10 05:56	22°♄36'13	0°19'04
	5748 Jul 06 06:22	0°♄		asc. node	5749 Jun 12 01:57	26°♄27'56	
	5748 Jul 25 12:42	0°♄			5749 Jun 13 17:57	0°♄	
evening max el	5748 Jul 25 23:55	0°♄27'39	23°10'23	evening rise	5749 Jun 17 13:47	8°♄05'31	
desc. node	5748 Jul 31 05:17	4°♄37'26			5749 Jun 29 05:27	0°♄	
retrograde	5748 Aug 08 10:13	7°♄10'43		evening max el	5749 Jul 07 16:58	10°♄53'19	21°35'19
evening set	5748 Aug 12 06:11	6°♄38'38		desc. node	5749 Jul 18 02:19	16°♄51'07	
min. Earth dist.	5748 Aug 19 08:56	3°♄24'21	0.55538 AU	retrograde	5749 Jul 20 01:25	17°♄00'15	
inferior conj	5748 Aug 21 02:44	2°♄23'30	-5°02'07	evening set	5749 Jul 22 13:56	16°♄45'47	
minimum elong	5748 Aug 20 20:51	2°♄32'06	5°01'19	inferior conj	5749 Jul 31 21:36	12°♄45'22	-3°50'48
	5748 Aug 25 12:18	30°♄♂		minimum elong	5749 Jul 31 12:37	12°♄57'57	3°48'19
morning rise	5748 Aug 29 13:48	28°♄32'07		min. Earth dist.	5749 Jul 31 18:40	12°♄49'29	0.54801 AU
direct	5748 Sep 01 12:47	28°♄11'14		morning rise	5749 Aug 09 12:27	8°♄53'28	
	5748 Sep 08 00:48	0°♄		direct	5749 Aug 12 22:36	8°♄28'01	
morning max el	5748 Sep 12 07:41	3°♄12'26	20°32'23	morning max el	5749 Aug 25 07:17	14°♄17'17	22°04'53
asc. node	5748 Sep 21 04:13	14°♄35'17			5749 Sep 06 03:42	0°♄	
	5748 Sep 29 12:34	0°♄		asc. node	5749 Sep 08 01:15	3°♄19'32	
morning set	5748 Oct 01 05:03	3°♄26'05		morning set	5749 Sep 15 15:00	18°♄14'42	
					5749 Sep 21 04:00	0°♄	
superior conj	5748 Oct 08 17:39	18°♄57'17	1°41'52				
minimum elong	5748 Oct 08 18:31	19°♄01'45	1°41'50	superior conj	5749 Sep 22 18:52	3°♄25'38	1°42'34
max. Earth dist.	5748 Oct 13 19:55	29°♄04'53	1.36190 AU	minimum elong	5749 Sep 22 18:21	3°♄22'58	1°42'33
	5748 Oct 14 07:21	0°♄		max. Earth dist.	5749 Sep 26 10:12	10°♄59'08	1.34493 AU



evening rise	5749 Sep 30 21:46	19° $\Omega$ 54'03		5750 Sep 12 15:54	0° $\Omega$	
	5749 Oct 06 07:52	0° $\mathbb{M}$		evening rise	5750 Sep 14 13:29	3° $\Omega$ 51'56
desc. node	5749 Oct 14 01:34	13° $\mathbb{M}$ 06'41		5750 Sep 29 01:42	0° $\mathbb{M}$	
	5749 Oct 25 15:59	0° $\mathcal{A}$		desc. node	5750 Sep 30 22:35	2° $\mathbb{M}$ 55'45
evening max el	5749 Nov 04 22:05	11° $\mathcal{A}$ 45'49	26°57'46	evening max el	5750 Oct 18 10:01	25° $\mathbb{M}$ 06'02 27°24'56
retrograde	5749 Nov 18 03:15	19° $\mathcal{A}$ 03'46		5750 Oct 24 14:58	0° $\mathcal{A}$	
evening set	5749 Nov 24 20:20	16° $\mathcal{A}$ 24'39		retrograde	5750 Nov 01 00:22	2° $\mathcal{A}$ 24'26
min. Earth dist.	5749 Nov 28 19:29	12° $\mathcal{A}$ 30'34	0.65561 AU	5750 Nov 07 18:42	30° $\mathbb{R}$ $\mathbb{M}$	
inferior conj	5749 Nov 30 19:27	10° $\mathcal{A}$ 13'07	-1°25'25	evening set	5750 Nov 08 01:42	29° $\mathbb{M}$ 47'15
minimum elong	5749 Nov 30 21:54	10° $\mathcal{A}$ 06'05	1°24'21	min. Earth dist.	5750 Nov 11 19:33	26° $\mathbb{M}$ 26'26 0.64031 AU
asc. node	5749 Dec 05 00:32	5° $\mathcal{A}$ 54'55		inferior conj	5750 Nov 14 07:19	23° $\mathbb{M}$ 50'54 -2°29'41
morning rise	5749 Dec 07 00:29	4° $\mathcal{A}$ 36'09		minimum elong	5750 Nov 14 11:45	23° $\mathbb{M}$ 39'21 2°27'59
direct	5749 Dec 09 18:38	3° $\mathcal{A}$ 54'47		morning rise	5750 Nov 20 23:17	18° $\mathbb{M}$ 28'45
morning max el	5749 Dec 16 06:25	7° $\mathcal{A}$ 23'34	18°11'14	asc. node	5750 Nov 21 21:34	18° $\mathbb{M}$ 10'07
	5749 Dec 31 20:13	0° $\mathcal{B}$		direct	5750 Nov 23 10:50	17° $\mathbb{M}$ 57'58
morning set	5750 Jan 03 22:43	5° $\mathcal{B}$ 03'40		morning max el	5750 Nov 29 23:17	21° $\mathbb{M}$ 22'41 17°52'03
desc. node	5750 Jan 10 00:50	14° $\mathcal{B}$ 55'45		5750 Dec 06 13:46	0° $\mathcal{A}$	
				morning set	5750 Dec 16 18:57	16° $\mathcal{A}$ 59'04
superior conj	5750 Jan 18 20:53	28° $\mathcal{B}$ 59'34	-0°59'07	5750 Dec 24 11:49	0° $\mathcal{B}$	
minimum elong	5750 Jan 18 13:43	28° $\mathcal{B}$ 31'20	0°58'10	desc. node	5750 Dec 27 21:52	5° $\mathcal{B}$ 38'46
	5750 Jan 19 12:14	0° $\approx$				
max. Earth dist.	5750 Jan 21 07:56	2° $\approx$ 51'44	1.45302 AU	superior conj	5750 Dec 29 16:49	8° $\mathcal{B}$ 33'53 -0°12'36
evening rise	5750 Feb 04 02:28	24° $\approx$ 20'57		minimum elong	5750 Dec 29 15:23	8° $\mathcal{B}$ 28'04 0°12'22
	5750 Feb 07 17:40	0° $\mathcal{H}$		behind sun begin	5750 Dec 29 08:55	8° $\mathcal{B}$ 01'46
greatest brilliancy	5750 Feb 16 06:55	13° $\mathcal{H}$ 09'50	-0.7m	behind sun end	5750 Dec 29 21:51	8° $\mathcal{B}$ 54'19
evening max el	5750 Feb 28 07:47	29° $\mathcal{H}$ 20'31	19°26'27	max. Earth dist.	5751 Jan 04 02:22	17° $\mathcal{B}$ 13'49 1.44632 AU
	5750 Feb 28 23:44	0° $\mathcal{Y}$		5751 Jan 12 06:11	0° $\approx$	
asc. node	5750 Mar 02 23:47	1° $\mathcal{Y}$ 41'59		evening rise	5751 Jan 14 14:20	3° $\approx$ 36'16
retrograde	5750 Mar 07 12:07	3° $\mathcal{Y}$ 27'12		5751 Feb 01 06:22	0° $\mathcal{H}$	
evening set	5750 Mar 11 00:57	2° $\mathcal{Y}$ 14'03		evening max el	5751 Feb 11 10:30	12° $\mathcal{H}$ 55'08 20°25'38
	5750 Mar 13 12:30	30° $\mathbb{R}$ $\mathcal{H}$		asc. node	5751 Feb 17 20:49	17° $\mathcal{H}$ 23'19
inferior conj	5750 Mar 16 12:00	26° $\mathcal{H}$ 20'26	3°20'48	retrograde	5751 Feb 19 10:23	17° $\mathcal{H}$ 36'20
minimum elong	5750 Mar 16 10:31	26° $\mathcal{H}$ 25'17	3°20'37	evening set	5751 Feb 23 07:55	16° $\mathcal{H}$ 08'40
min. Earth dist.	5750 Mar 17 18:23	24° $\mathcal{H}$ 41'05	0.66633 AU	inferior conj	5751 Feb 28 16:27	10° $\mathcal{H}$ 01'58 2°59'20
morning rise	5750 Mar 21 19:47	20° $\mathcal{H}$ 04'54		minimum elong	5751 Feb 28 14:16	10° $\mathcal{H}$ 09'22 2°58'52
direct	5750 Mar 28 00:22	17° $\mathcal{H}$ 19'47		min. Earth dist.	5751 Mar 01 08:59	9° $\mathcal{H}$ 05'32 0.67559 AU
desc. node	5750 Apr 08 00:07	23° $\mathcal{H}$ 19'54		morning rise	5751 Mar 05 20:24	3° $\mathcal{H}$ 47'26
morning max el	5750 Apr 09 11:18	24° $\mathcal{H}$ 45'56	25°52'18	direct	5751 Mar 11 11:56	1° $\mathcal{H}$ 16'11
	5750 Apr 14 04:52	0° $\mathcal{Y}$		morning max el	5751 Mar 22 19:57	8° $\mathcal{H}$ 03'04 24°28'20
	5750 May 05 03:31	0° $\mathcal{B}$		desc. node	5751 Mar 25 21:09	11° $\mathcal{H}$ 20'20
morning set	5750 May 15 15:20	18° $\mathcal{B}$ 12'38		5751 Apr 09 00:25	0° $\mathcal{Y}$	
max. Earth dist.	5750 May 19 11:10	25° $\mathcal{B}$ 23'57	1.35588 AU	morning set	5751 Apr 27 17:31	29° $\mathcal{Y}$ 58'06
	5750 May 21 20:02	0° $\mathbb{I}$		5751 Apr 27 17:57	0° $\mathcal{B}$	
				max. Earth dist.	5751 May 01 08:42	6° $\mathcal{B}$ 26'26 1.37597 AU
superior conj	5750 May 24 23:00	6° $\mathbb{I}$ 13'32	-0°49'25			
minimum elong	5750 May 25 01:47	6° $\mathbb{I}$ 27'33	0°48'54	superior conj	5751 May 08 06:01	19° $\mathcal{B}$ 20'35 -1°19'04
asc. node	5750 May 29 23:00	16° $\mathbb{I}$ 27'51		minimum elong	5751 May 08 10:26	19° $\mathcal{B}$ 41'54 1°18'24
evening rise	5750 Jun 01 20:51	22° $\mathbb{I}$ 27'28		5751 May 13 16:11	0° $\mathbb{I}$	
	5750 Jun 05 14:55	0° $\mathcal{E}$		evening rise	5751 May 16 22:03	6° $\mathbb{I}$ 27'43
evening max el	5750 Jun 19 21:33	21° $\mathcal{E}$ 52'56	20°14'15	asc. node	5751 May 16 20:03	6° $\mathbb{I}$ 17'44
retrograde	5750 Jun 30 14:56	27° $\mathcal{E}$ 08'19		5751 May 30 10:57	0° $\mathcal{E}$	
evening set	5750 Jul 02 13:20	26° $\mathcal{E}$ 58'48		evening max el	5751 Jun 02 14:43	3° $\mathcal{E}$ 35'32 19°12'25
desc. node	5750 Jul 04 23:20	26° $\mathcal{E}$ 22'03		retrograde	5751 Jun 11 15:08	8° $\mathcal{E}$ 00'30
inferior conj	5750 Jul 11 16:22	23° $\mathcal{E}$ 00'34	-2°00'13	evening set	5751 Jun 13 14:22	7° $\mathcal{E}$ 48'47
minimum elong	5750 Jul 11 10:46	23° $\mathcal{E}$ 08'50	1°58'11	desc. node	5751 Jun 21 20:22	3° $\mathcal{E}$ 45'56
min. Earth dist.	5750 Jul 13 06:27	22° $\mathcal{E}$ 04'24	0.55018 AU	inferior conj	5751 Jun 22 00:44	3° $\mathcal{E}$ 38'36 -0°03'15
morning rise	5750 Jul 20 06:52	18° $\mathcal{E}$ 47'11		minimum elong	5751 Jun 22 00:36	3° $\mathcal{E}$ 38'50 0°03'14
direct	5750 Jul 24 09:19	18° $\mathcal{E}$ 10'40		transit middle	5751 Jun 22 00:36	3° $\mathcal{E}$ 38'50 0°03'14
morning max el	5750 Aug 06 22:45	24° $\mathcal{E}$ 47'55	23°48'27	transit begin	5751 Jun 21 20:51	3° $\mathcal{E}$ 45'07
	5750 Aug 11 18:16	0° $\mathcal{Q}$		transit end	5751 Jun 22 04:20	3° $\mathcal{E}$ 32'33
asc. node	5750 Aug 25 22:17	22° $\mathcal{Q}$ 34'00		min. Earth dist.	5751 Jun 24 20:52	1° $\mathcal{E}$ 44'55 0.56165 AU
	5750 Aug 29 14:54	0° $\mathbb{P}$		5751 Jun 27 19:16	30° $\mathbb{R}$ $\mathbb{I}$	
morning set	5750 Aug 31 02:36	3° $\mathbb{P}$ 07'12		morning rise	5751 Jun 30 07:45	28° $\mathbb{I}$ 50'49
				direct	5751 Jul 05 07:49	27° $\mathbb{I}$ 52'59
superior conj	5750 Sep 07 01:49	18° $\mathbb{P}$ 10'02	1°36'53	5751 Jul 12 18:54	0° $\mathcal{E}$	
minimum elong	5750 Sep 07 00:17	18° $\mathbb{P}$ 01'42	1°36'46	morning max el	5751 Jul 19 12:11	5° $\mathcal{E}$ 07'25 25°29'09
max. Earth dist.	5750 Sep 09 09:07	23° $\mathbb{P}$ 06'59	1.33202 AU	5751 Aug 06 10:53	0° $\mathcal{Q}$	

asc. node	5751 Aug 12 19:18	12°♎10'00		morning set	5752 Jul 29 23:55	2°♎41'22	
morning set	5751 Aug 15 14:05	17°♎57'38		asc. node	5752 Jul 29 16:20	2°♎01'24	
	5751 Aug 21 03:03	0°♐					
superior conj	5751 Aug 22 12:07	3°♐01'56	1°25'40	superior conj	5752 Aug 05 23:50	17°♎55'21	1°09'34
minimum elong	5751 Aug 22 09:58	2°♐50'09	1°25'24	minimum elong	5752 Aug 05 21:33	17°♎42'43	1°09'12
max. Earth dist.	5751 Aug 23 15:23	5°♐31'30	1.32350 AU	max. Earth dist.	5752 Aug 06 01:53	18°♎06'38	1.31929 AU
evening rise	5751 Aug 29 13:52	18°♐13'18		evening rise	5752 Aug 11 12:13	0°♐	
	5751 Sep 04 12:35	0°♑			5752 Aug 12 20:11	2°♐50'06	
desc. node	5751 Sep 17 19:36	22°♑10'50		desc. node	5752 Aug 27 09:40	0°♑	
	5751 Sep 23 14:34	0°♒			5752 Sep 03 16:37	10°♑38'21	
evening max el	5751 Sep 30 19:06	7°♒55'30	27°22'03	evening max el	5752 Sep 11 22:26	20°♑01'24	26°45'34
retrograde	5751 Oct 14 14:23	15°♒09'22		retrograde	5752 Sep 25 20:12	27°♑10'19	
evening set	5751 Oct 21 18:06	12°♒44'44		evening set	5752 Oct 02 17:12	25°♑09'54	
min. Earth dist.	5751 Oct 25 09:25	9°♒51'37	0.62203 AU	min. Earth dist.	5752 Oct 06 12:23	22°♑33'22	0.60171 AU
inferior conj	5751 Oct 28 07:49	7°♒08'29	-3°33'34	inferior conj	5752 Oct 09 17:34	19°♑56'56	-4°30'58
minimum elong	5751 Oct 28 13:53	6°♒54'23	3°31'38	minimum elong	5752 Oct 09 23:56	19°♑43'58	4°29'32
morning rise	5751 Nov 04 11:31	2°♒04'30		morning rise	5752 Oct 17 08:44	15°♑14'32	
direct	5751 Nov 06 19:19	1°♒40'37		direct	5752 Oct 19 16:08	14°♑54'29	
asc. node	5751 Nov 08 18:35	1°♒58'18		asc. node	5752 Oct 25 15:36	17°♑16'10	
morning max el	5751 Nov 13 15:29	5°♒09'28	17°50'50	morning max el	5752 Oct 27 03:47	18°♑35'47	18°08'47
morning set	5751 Nov 29 12:51	29°♒56'23			5752 Nov 04 10:15	0°♒	
	5751 Nov 29 13:39	0°♓		morning set	5752 Nov 11 22:14	13°♒37'11	
					5752 Nov 20 18:11	0°♓	
superior conj	5751 Dec 10 14:17	19°♓22'43	0°29'38	superior conj	5752 Nov 21 12:54	1°♓24'18	1°02'31
minimum elong	5751 Dec 10 16:55	19°♓33'58	0°29'17	minimum elong	5752 Nov 21 16:44	1°♓41'32	1°02'03
desc. node	5751 Dec 14 18:53	26°♓25'10		max. Earth dist.	5752 Nov 29 04:38	14°♓43'54	1.41491 AU
	5751 Dec 16 23:08	0°♔		desc. node	5752 Nov 30 15:53	17°♓11'28	
max. Earth dist.	5751 Dec 17 17:53	1°♔16'22	1.43310 AU	evening rise	5752 Dec 04 07:22	23°♓10'14	
evening rise	5751 Dec 25 03:15	13°♔01'38			5752 Dec 08 14:26	0°♔	
	5752 Jan 05 07:59	0°♕			5752 Dec 29 08:49	0°♕	
evening max el	5752 Jan 25 07:48	26°♕31'27	21°36'37	evening max el	5753 Jan 07 00:21	10°♕09'31	22°54'52
	5752 Jan 29 08:01	0°♖		retrograde	5753 Jan 17 03:22	16°♕09'58	
retrograde	5752 Feb 03 08:00	1°♖52'00		evening set	5753 Jan 21 22:50	14°♕11'19	
asc. node	5752 Feb 04 17:49	1°♖41'27		asc. node	5753 Jan 21 14:51	14°♕27'26	
evening set	5752 Feb 07 15:45	0°♖09'02		inferior conj	5753 Jan 27 07:54	7°♕47'19	1°49'00
	5752 Feb 07 20:09	30°♗		minimum elong	5753 Jan 27 05:46	7°♕54'41	1°48'16
inferior conj	5752 Feb 12 23:44	23°♗52'01	2°28'18	min. Earth dist.	5753 Jan 27 00:16	8°♕13'43	0.68169 AU
minimum elong	5752 Feb 12 21:21	24°♗00'17	2°27'37	morning rise	5753 Feb 01 12:37	1°♕39'24	
min. Earth dist.	5752 Feb 13 03:42	23°♗38'14	0.68063 AU		5753 Feb 04 16:10	30°♗	
morning rise	5752 Feb 18 02:46	17°♗40'04		direct	5753 Feb 05 23:19	29°♗51'08	
direct	5752 Feb 23 03:55	15°♗29'00			5753 Feb 07 07:25	0°♗	
morning max el	5752 Mar 04 05:23	21°♗26'36	22°58'58	morning max el	5753 Feb 14 19:10	4°♗59'07	21°33'09
desc. node	5752 Mar 11 18:11	0°♘12'45		desc. node	5753 Feb 26 15:11	19°♗42'11	
	5752 Mar 11 14:12	0°♙			5753 Mar 05 18:53	0°♘	
	5752 Apr 01 07:08	0°♙		morning set	5753 Mar 18 15:34	19°♘42'38	
morning set	5752 Apr 07 18:46	10°♙30'28		max. Earth dist.	5753 Mar 25 04:55	0°♙19'37	1.41924 AU
max. Earth dist.	5752 Apr 12 04:23	17°♙57'09	1.39802 AU		5753 Mar 25 00:10	0°♙	
	5752 Apr 18 23:34	0°♚					
superior conj	5752 Apr 19 21:52	1°♚41'57	-1°45'18	superior conj	5753 Apr 01 17:38	13°♙05'14	-2°03'54
minimum elong	5752 Apr 20 03:03	2°♚05'42	1°44'45	minimum elong	5753 Apr 01 21:24	13°♙21'34	2°03'44
evening rise	5752 Apr 29 14:24	19°♚58'36			5753 Apr 11 04:47	0°♚	
asc. node	5752 May 02 17:04	25°♚52'59		evening rise	5753 Apr 12 18:05	2°♚50'19	
	5752 May 04 22:28	0°♛		asc. node	5753 Apr 19 14:06	15°♚07'26	
evening max el	5752 May 15 17:54	15°♛56'59	18°31'01	evening max el	5753 Apr 29 03:28	28°♚47'26	18°09'41
retrograde	5752 May 23 10:08	19°♛44'58			5753 Apr 30 11:53	0°♛	
evening set	5752 May 25 15:43	19°♛26'43		retrograde	5753 May 05 23:26	2°♛14'50	
inferior conj	5752 Jun 02 06:01	14°♛57'01	1°32'27	evening set	5753 May 08 11:57	1°♛47'06	
minimum elong	5752 Jun 02 08:59	14°♛51'11	1°31'28		5753 May 11 17:18	30°♛	
min. Earth dist.	5752 Jun 05 15:18	12°♛18'35	0.57995 AU	inferior conj	5753 May 15 08:19	26°♛56'46	2°37'42
desc. node	5752 Jun 07 17:23	10°♛51'07		minimum elong	5753 May 15 11:35	26°♛49'16	2°36'55
morning rise	5752 Jun 09 23:01	9°♛34'33		min. Earth dist.	5753 May 18 16:11	23°♛55'10	0.60164 AU
direct	5752 Jun 15 20:19	8°♛06'06		morning rise	5753 May 22 08:42	21°♛08'06	
morning max el	5752 Jun 30 05:30	15°♛45'02	26°50'49	desc. node	5753 May 25 14:26	19°♛36'52	
	5752 Jul 11 19:18	0°♜		direct	5753 May 28 21:18	19°♛05'58	
	5752 Jul 28 17:03	0°♞		morning max el	5753 Jun 12 05:25	27°♛00'15	27°40'43
					5753 Jun 15 01:41	0°♞	

	5753 Jul 05 09:51	0°☿		morning max el	5754 May 25 11:14	8°☿58'11	27°52'54
morning set	5753 Jul 14 06:22	17°☿12'46			5754 Jun 10 17:03	0°♊	
asc. node	5753 Jul 16 13:21	22°☿02'29			5754 Jun 27 14:28	0°☿	
	5753 Jul 20 05:23	0°♊		morning set	5754 Jun 28 07:22	1°☿25'25	
max. Earth dist.	5753 Jul 20 12:47	0°♊40'41	1.31924 AU	asc. node	5754 Jul 03 10:23	12°☿08'38	
				max. Earth dist.	5754 Jul 03 20:06	13°☿00'49	1.32354 AU
superior conj	5753 Jul 21 11:14	2°♊44'18	0°49'09				
minimum elong	5753 Jul 21 09:17	2°♊33'33	0°48'46	superior conj	5754 Jul 05 20:33	17°☿23'09	0°24'57
evening rise	5753 Jul 28 06:10	17°♊34'58		minimum elong	5754 Jul 05 19:24	17°☿16'57	0°24'40
	5753 Aug 03 08:28	0°♊			5754 Jul 11 15:27	0°♊	
desc. node	5753 Aug 21 13:38	27°♊59'20		evening rise	5754 Jul 12 17:50	2°♊21'26	
	5753 Aug 23 10:41	0°♋			5754 Jul 27 16:55	0°♊	
evening max el	5753 Aug 24 18:00	1°♋17'21	25°37'25	evening max el	5754 Aug 06 07:14	11°♊51'38	24°06'47
retrograde	5753 Sep 07 16:40	8°♋22'22		desc. node	5754 Aug 08 10:41	13°♊47'11	
evening set	5753 Sep 13 18:12	6°♋56'16		retrograde	5754 Aug 20 01:48	18°♊47'17	
min. Earth dist.	5753 Sep 18 05:59	4°♋19'03	0.58113 AU	evening set	5754 Aug 24 18:48	17°♊58'12	
inferior conj	5753 Sep 21 09:08	2°♋06'50	-5°11'22	min. Earth dist.	5754 Aug 30 17:54	15°♊01'25	0.56314 AU
minimum elong	5753 Sep 21 12:59	2°♋00'01	5°10'58	inferior conj	5754 Sep 02 04:28	13°♊30'54	-5°19'07
	5753 Sep 24 12:40	30°♋♊		minimum elong	5754 Sep 02 02:25	13°♊34'05	5°19'02
morning rise	5753 Sep 29 10:04	27°♊47'49		morning rise	5754 Sep 10 12:29	9°♊32'01	
direct	5753 Oct 01 20:43	27°♊29'11		direct	5754 Sep 13 05:53	9°♊12'40	
	5753 Oct 08 13:28	0°♋		morning max el	5754 Sep 23 03:28	13°♊50'09	19°47'52
morning max el	5753 Oct 10 08:53	1°♋32'47	18°47'25	asc. node	5754 Sep 29 09:41	21°♊26'23	
asc. node	5753 Oct 12 12:38	3°♋50'48			5754 Oct 04 13:35	0°♋	
morning set	5753 Oct 26 18:27	27°♋48'19		morning set	5754 Oct 10 21:58	12°♋19'21	
	5753 Oct 27 21:21	0°♌					
superior conj	5753 Nov 04 07:52	14°♌25'12	1°25'05	superior conj	5754 Oct 18 17:52	28°♋09'25	1°38'08
minimum elong	5753 Nov 04 11:03	14°♌40'14	1°24'46	minimum elong	5754 Oct 18 19:37	28°♋18'09	1°38'03
max. Earth dist.	5753 Nov 11 10:44	27°♌27'47	1.39400 AU		5754 Oct 19 16:13	0°♌	
	5753 Nov 12 21:25	0°♌		max. Earth dist.	5754 Oct 24 15:42	9°♌34'17	1.37303 AU
evening rise	5753 Nov 15 09:42	4°♌19'18		evening rise	5754 Oct 28 10:05	16°♌28'03	
desc. node	5753 Nov 17 12:54	7°♌54'23		desc. node	5754 Nov 04 09:55	28°♌29'22	
	5753 Dec 01 18:10	0°♍			5754 Nov 05 08:01	0°♌	
evening max el	5753 Dec 20 13:58	23°♍51'04	24°14'36	evening max el	5754 Nov 26 05:56	0°♍	
	5753 Dec 29 05:43	0°♍			5754 Dec 03 02:37	7°♍35'06	25°29'08
retrograde	5753 Dec 31 19:25	0°♍26'27		retrograde	5754 Dec 15 07:02	14°♍35'37	
	5754 Jan 03 05:36	30°♍♍		evening set	5754 Dec 21 04:36	12°♍08'54	
evening set	5754 Jan 06 03:40	28°♍12'47		min. Earth dist.	5754 Dec 25 14:06	7°♍19'15	0.67266 AU
asc. node	5754 Jan 08 11:52	25°♍49'19		asc. node	5754 Dec 26 08:56	6°♍18'46	
min. Earth dist.	5754 Jan 10 20:30	22°♍48'48	0.67897 AU	inferior conj	5754 Dec 26 19:47	5°♍43'49	0°09'11
inferior conj	5754 Jan 11 15:12	21°♍45'49	1°02'22	minimum elong	5754 Dec 26 19:33	5°♍44'35	0°09'07
minimum elong	5754 Jan 11 13:47	21°♍50'35	1°01'49	transit middle	5754 Dec 26 19:33	5°♍44'35	0°09'07
morning rise	5754 Jan 16 23:58	15°♍43'31		transit begin	5754 Dec 26 17:14	5°♍52'01	
direct	5754 Jan 20 21:07	14°♍17'41		transit end	5754 Dec 26 21:51	5°♍37'08	
morning max el	5754 Jan 28 16:14	18°♍43'42	20°17'27	morning rise	5755 Jan 01 10:50	29°♌49'07	
	5754 Feb 06 19:21	0°♍			5755 Jan 01 04:22	30°♌♌	
desc. node	5754 Feb 13 12:12	9°♍38'44		direct	5755 Jan 04 19:58	28°♌43'17	
morning set	5754 Feb 25 14:59	28°♍00'00			5755 Jan 08 16:23	0°♍	
	5754 Feb 26 21:58	0°♎		morning max el	5755 Jan 11 21:09	2°♍38'25	19°15'45
max. Earth dist.	5754 Mar 07 12:38	13°♎34'56	1.43685 AU	greatest brilliancy	5755 Jan 25 06:43	20°♍35'08	-0.7m
				desc. node	5755 Jan 31 09:13	29°♍54'26	
superior conj	5754 Mar 13 13:01	23°♎22'14	-2°09'23		5755 Jan 31 10:40	0°♍	
minimum elong	5754 Mar 13 11:59	23°♎17'59	2°09'23	morning set	5755 Feb 04 15:01	6°♍27'41	
	5754 Mar 17 12:27	0°♎		max. Earth dist.	5755 Feb 18 02:40	27°♍30'35	1.44872 AU
evening rise	5754 Mar 26 04:48	14°♎53'51			5755 Feb 19 16:30	0°♎	
	5754 Apr 04 00:10	0°♏		superior conj	5755 Feb 21 07:50	2°♎35'55	-1°56'26
asc. node	5754 Apr 06 11:08	3°♏54'30		minimum elong	5755 Feb 21 00:26	2°♎06'33	1°55'57
evening max el	5754 Apr 12 16:05	11°♏58'40	18°07'46	evening rise	5755 Mar 07 18:11	26°♎01'00	
retrograde	5754 Apr 19 02:49	15°♏20'32			5755 Mar 10 03:53	0°♎	
evening set	5754 Apr 21 21:55	14°♏41'24		asc. node	5755 Mar 24 08:11	22°♎05'31	
inferior conj	5754 Apr 28 04:17	9°♏31'32	3°14'57	evening max el	5755 Mar 27 04:46	25°♎23'00	18°24'36
minimum elong	5754 Apr 28 06:20	9°♏26'09	3°14'40	retrograde	5755 Apr 02 15:50	28°♎52'53	
min. Earth dist.	5754 May 01 01:37	6°♏31'14	0.62353 AU	evening set	5755 Apr 05 17:25	28°♎01'08	
morning rise	5754 May 04 13:10	3°♏27'13		inferior conj	5755 Apr 11 13:43	22°♎33'03	3°30'01
direct	5754 May 11 08:50	0°♏56'58		minimum elong	5755 Apr 11 14:12	22°♎31'38	3°29'59
desc. node	5754 May 12 11:29	1°♏00'42		min. Earth dist.	5755 Apr 13 20:18	19°♎54'47	0.64314 AU

morning rise	5755 Apr 17 10:08	16° $\Upsilon$ 21'09		min. Earth dist.	5756 Mar 26 23:48	3° $\Upsilon$ 50'57	0.65909 AU
direct	5755 Apr 24 04:44	13° $\Upsilon$ 34'43			5756 Mar 30 10:59	30° $\Re$	
desc. node	5755 Apr 29 08:31	14° $\Upsilon$ 55'53		morning rise	5756 Mar 30 20:16	29° $\Re$ 38'55	
morning max el	5755 May 07 20:25	21° $\Upsilon$ 32'20	27°28'42	direct	5756 Apr 06 07:19	26° $\Re$ 49'58	
	5755 May 15 05:08	0° $\Re$			5756 Apr 14 03:28	0° $\Upsilon$	
	5755 Jun 03 20:48	0° $\Pi$		desc. node	5756 Apr 15 05:33	0° $\Upsilon$ 50'04	
morning set	5755 Jun 12 00:24	15° $\Pi$ 11'45		morning max el	5756 Apr 19 06:26	4° $\Upsilon$ 31'04	26°34'08
max. Earth dist.	5755 Jun 16 19:56	24° $\Pi$ 56'03	1.33242 AU		5756 May 08 16:29	0° $\Re$	
	5755 Jun 19 05:53	0° $\Re$		morning set	5756 May 25 05:59	28° $\Re$ 20'55	
					5756 May 26 02:52	0° $\Pi$	
superior conj	5755 Jun 20 01:52	1° $\Re$ 46'10	-0°02'25	max. Earth dist.	5756 May 29 09:19	6° $\Pi$ 21'17	1.34606 AU
minimum elong	5755 Jun 20 01:59	1° $\Re$ 46'48	0°02'26				
behind sun begin	5755 Jun 19 20:36	1° $\Re$ 18'06		superior conj	5756 Jun 03 00:49	15° $\Pi$ 45'33	-0°31'56
behind sun end	5755 Jun 20 07:23	2° $\Re$ 15'32		minimum elong	5756 Jun 03 02:34	15° $\Pi$ 54'35	0°31'37
asc. node	5755 Jun 20 07:27	2° $\Re$ 15'55		asc. node	5756 Jun 06 04:28	22° $\Pi$ 19'25	
evening rise	5755 Jun 27 05:19	17° $\Re$ 03'47			5756 Jun 09 20:21	0° $\Re$	
	5755 Jul 03 15:12	0° $\Omega$		evening rise	5756 Jun 10 14:36	1° $\Re$ 34'56	
evening max el	5755 Jul 18 20:42	22° $\Omega$ 11'54	22°28'54		5756 Jun 27 03:39	0° $\Omega$	
desc. node	5755 Jul 26 07:44	27° $\Omega$ 29'11		evening max el	5756 Jun 29 18:17	2° $\Omega$ 49'55	20°58'40
retrograde	5755 Jul 31 22:16	28° $\Omega$ 41'46		retrograde	5756 Jul 11 10:44	8° $\Omega$ 35'16	
evening set	5755 Aug 04 03:00	28° $\Omega$ 19'18		desc. node	5756 Jul 12 04:47	8° $\Omega$ 33'54	
min. Earth dist.	5755 Aug 12 03:51	24° $\Omega$ 48'52	0.55116 AU	evening set	5756 Jul 13 15:15	8° $\Omega$ 23'57	
inferior conj	5755 Aug 13 05:59	24° $\Omega$ 11'48	-4°38'13	inferior conj	5756 Jul 22 22:57	4° $\Omega$ 26'37	-3°06'59
minimum elong	5755 Aug 12 22:00	24° $\Omega$ 23'09	4°36'37	minimum elong	5756 Jul 22 14:45	4° $\Omega$ 38'12	3°04'19
morning rise	5755 Aug 21 18:52	20° $\Omega$ 22'12		min. Earth dist.	5756 Jul 23 14:05	4° $\Omega$ 05'14	0.54783 AU
direct	5755 Aug 24 22:09	19° $\Omega$ 59'48		morning rise	5756 Jul 31 14:24	0° $\Omega$ 28'08	
morning max el	5755 Sep 05 09:45	25° $\Omega$ 21'26	21°09'36		5756 Aug 03 13:36	30° $\Re$	
	5755 Sep 09 15:50	0° $\Re$		direct	5756 Aug 04 07:04	29° $\Re$ 58'50	
asc. node	5755 Sep 16 06:44	9° $\Re$ 49'15			5756 Aug 05 00:28	0° $\Omega$	
morning set	5755 Sep 25 06:12	27° $\Re$ 03'28		morning max el	5756 Aug 17 05:03	6° $\Omega$ 08'43	22°48'09
	5755 Sep 26 16:07	0° $\Omega$		asc. node	5756 Sep 02 03:46	28° $\Omega$ 47'18	
					5756 Sep 02 19:13	0° $\Re$	
superior conj	5755 Oct 02 14:32	12° $\Omega$ 24'38	1°42'59	morning set	5756 Sep 08 17:04	11° $\Re$ 54'13	
minimum elong	5755 Oct 02 14:48	12° $\Omega$ 25'58	1°43'00				
max. Earth dist.	5755 Oct 07 01:30	21° $\Omega$ 26'53	1.35426 AU	superior conj	5756 Sep 15 18:30	27° $\Re$ 00'20	1°40'51
evening rise	5755 Oct 11 05:01	29° $\Omega$ 27'56		minimum elong	5756 Sep 15 17:30	26° $\Re$ 55'02	1°40'49
	5755 Oct 11 11:50	0° $\Re$			5756 Sep 17 04:20	0° $\Omega$	
desc. node	5755 Oct 22 06:56	18° $\Re$ 51'42		max. Earth dist.	5756 Sep 18 19:44	3° $\Omega$ 26'46	1.33900 AU
	5755 Oct 29 12:17	0° $\Re$		evening rise	5756 Sep 23 14:14	13° $\Omega$ 07'13	
evening max el	5755 Nov 15 15:33	21° $\Re$ 17'45	26°30'57		5756 Oct 02 18:01	0° $\Re$	
retrograde	5755 Nov 28 13:21	28° $\Re$ 31'38		desc. node	5756 Oct 08 03:59	8° $\Re$ 55'06	
evening set	5755 Dec 04 23:46	25° $\Re$ 55'41			5756 Oct 23 13:55	0° $\Re$	
min. Earth dist.	5755 Dec 09 02:38	21° $\Re$ 41'07	0.66284 AU	evening max el	5756 Oct 28 04:21	4° $\Re$ 49'36	27°12'40
inferior conj	5755 Dec 10 19:42	19° $\Re$ 37'43	-0°49'34	retrograde	5756 Nov 10 13:43	12° $\Re$ 07'34	
minimum elong	5755 Dec 10 21:04	19° $\Re$ 33'36	0°48'57	evening set	5756 Nov 17 10:56	9° $\Re$ 28'21	
asc. node	5755 Dec 13 06:00	16° $\Re$ 49'55		min. Earth dist.	5756 Nov 21 07:46	5° $\Re$ 48'46	0.64953 AU
morning rise	5755 Dec 16 19:05	13° $\Re$ 53'13		inferior conj	5756 Nov 23 12:42	3° $\Re$ 22'56	-1°52'28
direct	5755 Dec 19 18:09	13° $\Re$ 03'56		minimum elong	5756 Nov 23 15:59	3° $\Re$ 13'51	1°51'07
morning max el	5755 Dec 26 08:39	16° $\Re$ 39'16	18°29'57		5756 Nov 26 19:52	30° $\Re$	
	5756 Jan 05 08:23	0° $\Re$		asc. node	5756 Nov 29 03:02	28° $\Re$ 16'45	
morning set	5756 Jan 15 14:02	16° $\Re$ 08'46		morning rise	5756 Nov 29 22:12	27° $\Re$ 51'43	
desc. node	5756 Jan 18 06:13	20° $\Re$ 23'50		direct	5756 Dec 02 13:21	27° $\Re$ 15'09	
	5756 Jan 24 07:53	0° $\Re$			5756 Dec 08 07:11	0° $\Re$	
				morning max el	5756 Dec 09 00:23	0° $\Re$ 40'53	18°00'56
superior conj	5756 Jan 31 11:50	11° $\Re$ 15'19	-1°24'03	morning set	5756 Dec 26 18:49	27° $\Re$ 19'06	
minimum elong	5756 Jan 31 02:34	10° $\Re$ 39'01	1°23'02		5756 Dec 28 09:37	0° $\Re$	
max. Earth dist.	5756 Jan 31 21:07	11° $\Re$ 51'42	1.45361 AU	desc. node	5757 Jan 04 03:13	11° $\Re$ 02'55	
	5756 Feb 12 10:16	0° $\Re$					
evening rise	5756 Feb 16 08:10	6° $\Re$ 11'08		superior conj	5757 Jan 09 20:39	20° $\Re$ 15'06	-0°39'22
greatest brilliancy	5756 Feb 25 16:54	20° $\Re$ 59'20	-0.8m	minimum elong	5757 Jan 09 15:52	19° $\Re$ 56'03	0°38'41
	5756 Mar 02 15:19	0° $\Upsilon$		max. Earth dist.	5757 Jan 13 17:00	26° $\Re$ 20'37	1.45103 AU
					5757 Jan 16 00:51	0° $\Re$	
evening max el	5756 Mar 09 14:57	8° $\Upsilon$ 53'54	18°59'11	evening rise	5757 Jan 26 02:34	15° $\Re$ 38'36	
asc. node	5756 Mar 10 05:14	9° $\Upsilon$ 29'07			5757 Feb 04 11:27	0° $\Re$	
retrograde	5756 Mar 16 10:41	12° $\Upsilon$ 43'48		greatest brilliancy	5757 Feb 09 00:35	6° $\Re$ 49'30	-0.6m
evening set	5756 Mar 19 19:15	11° $\Upsilon$ 38'32		evening max el	5757 Feb 20 20:43	22° $\Re$ 27'35	19°49'59
inferior conj	5756 Mar 25 08:51	5° $\Upsilon$ 53'43	3°28'05	asc. node	5757 Feb 25 02:18	25° $\Re$ 52'09	
minimum elong	5756 Mar 25 07:58	5° $\Upsilon$ 56'31	3°28'01				

retrograde	5757 Feb 28 08:29	26° $\text{K}$ 47'51		retrograde	5758 Feb 12 06:46	10° $\text{K}$ 59'48	
evening set	5757 Mar 04 00:57	25° $\text{K}$ 28'23		evening set	5758 Feb 16 08:28	9° $\text{K}$ 25'33	
inferior conj	5757 Mar 09 10:37	19° $\text{K}$ 28'47	3°12'59	inferior conj	5758 Feb 21 16:30	3° $\text{K}$ 13'48	2°47'14
minimum elong	5757 Mar 09 08:47	19° $\text{K}$ 34'54	3°12'41	minimum elong	5758 Feb 21 14:11	3° $\text{K}$ 21'47	2°46'41
min. Earth dist.	5757 Mar 10 10:52	18° $\text{K}$ 07'52	0.67077 AU	min. Earth dist.	5758 Feb 22 03:28	2° $\text{K}$ 35'58	0.67818 AU
morning rise	5757 Mar 14 16:25	13° $\text{K}$ 13'41			5758 Feb 24 02:11	30° $\text{R}$ $\approx$	
direct	5757 Mar 20 15:42	10° $\text{K}$ 33'44		morning rise	5758 Feb 26 19:44	27° $\approx$ 00'07	
morning max el	5757 Apr 01 15:45	17° $\text{K}$ 44'13	25°18'03	direct	5758 Mar 04 05:04	24° $\approx$ 37'11	
desc. node	5757 Apr 02 02:32	18° $\text{K}$ 11'45			5758 Mar 13 22:23	0° $\text{K}$	
	5757 Apr 11 22:21	0° $\text{Y}$		morning max el	5758 Mar 15 00:33	1° $\text{K}$ 04'11	23°50'30
	5757 May 01 16:46	0° $\text{B}$		desc. node	5758 Mar 19 23:31	6° $\text{K}$ 35'52	
morning set	5757 May 07 19:45	10° $\text{B}$ 41'05			5758 Apr 05 21:24	0° $\text{Y}$	
max. Earth dist.	5757 May 11 11:57	17° $\text{B}$ 26'17	1.36409 AU	morning set	5758 Apr 19 12:00	21° $\text{Y}$ 56'47	
				max. Earth dist.	5758 Apr 23 07:47	28° $\text{Y}$ 36'25	1.38521 AU
					5758 Apr 24 02:35	0° $\text{B}$	
superior conj	5757 May 17 14:37	29° $\text{B}$ 14'02	-1°02'10	superior conj	5758 Apr 30 15:40	12° $\text{B}$ 02'05	-1°30'49
minimum elong	5757 May 17 18:09	29° $\text{B}$ 31'29	1°01'34	minimum elong	5758 Apr 30 20:35	12° $\text{B}$ 25'19	1°30'11
	5757 May 17 23:53	0° $\text{II}$		evening rise	5758 May 09 17:19	29° $\text{B}$ 37'04	
asc. node	5757 May 24 01:30	12° $\text{II}$ 15'34			5758 May 09 22:00	0° $\text{II}$	
evening rise	5757 May 25 19:30	15° $\text{II}$ 48'40		asc. node	5758 May 10 22:33	1° $\text{II}$ 59'39	
	5757 Jun 02 04:07	0° $\text{B}$		evening max el	5758 May 26 02:00	26° $\text{II}$ 06'28	18°52'20
evening max el	5757 Jun 12 04:15	14° $\text{B}$ 06'58	19°45'22		5758 Jun 01 10:53	0° $\text{B}$	
retrograde	5757 Jun 22 03:36	19° $\text{B}$ 00'08		retrograde	5758 Jun 03 11:41	0° $\text{B}$ 14'14	
evening set	5757 Jun 24 01:12	18° $\text{B}$ 50'16		evening set	5758 Jun 05 13:05	0° $\text{B}$ 00'19	
desc. node	5757 Jun 29 01:48	17° $\text{B}$ 01'56			5758 Jun 05 13:39	30° $\text{R}$ $\text{II}$	
inferior conj	5757 Jul 02 22:02	14° $\text{B}$ 47'50	-1°09'20	inferior conj	5758 Jun 13 14:55	25° $\text{II}$ 42'16	0°40'50
minimum elong	5757 Jul 02 18:51	14° $\text{B}$ 52'47	1°08'09	minimum elong	5758 Jun 13 16:30	25° $\text{II}$ 39'27	0°40'15
min. Earth dist.	5757 Jul 05 02:32	13° $\text{B}$ 26'44	0.55410 AU	desc. node	5758 Jun 15 22:47	24° $\text{II}$ 01'54	
morning rise	5757 Jul 11 10:22	10° $\text{B}$ 20'57		min. Earth dist.	5758 Jun 16 18:39	23° $\text{II}$ 27'15	0.56872 AU
direct	5757 Jul 15 21:30	9° $\text{B}$ 36'57		morning rise	5758 Jun 21 16:31	20° $\text{II}$ 38'41	
morning max el	5757 Jul 29 18:50	16° $\text{B}$ 30'47	24°32'36	direct	5758 Jun 27 01:44	19° $\text{II}$ 28'49	
	5757 Aug 09 16:23	0° $\text{Q}$		morning max el	5758 Jul 11 09:37	26° $\text{II}$ 55'46	26°07'08
asc. node	5757 Aug 20 00:46	18° $\text{Q}$ 11'33			5758 Jul 14 08:33	0° $\text{B}$	
morning set	5757 Aug 24 04:49	26° $\text{Q}$ 46'23			5758 Aug 02 22:46	0° $\text{Q}$	
	5757 Aug 25 17:02	0° $\text{P}$		asc. node	5758 Aug 06 21:47	7° $\text{Q}$ 55'05	
superior conj	5757 Aug 31 03:07	11° $\text{P}$ 48'26	1°32'45	morning set	5758 Aug 08 15:50	11° $\text{Q}$ 35'13	
minimum elong	5757 Aug 31 01:16	11° $\text{P}$ 38'20	1°32'35				
max. Earth dist.	5757 Sep 01 22:14	15° $\text{P}$ 42'27	1.32792 AU	superior conj	5758 Aug 15 14:17	26° $\text{Q}$ 42'23	1°19'25
evening rise	5757 Sep 07 09:59	27° $\text{P}$ 15'42		minimum elong	5758 Aug 15 12:01	26° $\text{Q}$ 29'55	1°19'06
	5757 Sep 08 18:32	0° $\text{Q}$		max. Earth dist.	5758 Aug 16 06:40	28° $\text{Q}$ 12'42	1.32115 AU
desc. node	5757 Sep 25 01:01	28° $\text{Q}$ 31'03			5758 Aug 17 02:10	0° $\text{P}$	
	5757 Sep 26 00:53	0° $\text{M}$		evening rise	5758 Aug 22 13:13	11° $\text{P}$ 44'54	
evening max el	5757 Oct 10 15:15	17° $\text{M}$ 57'35	27°27'33		5758 Aug 31 22:46	0° $\text{Q}$	
retrograde	5757 Oct 24 07:44	25° $\text{M}$ 14'10		desc. node	5758 Sep 11 22:03	17° $\text{Q}$ 28'28	
evening set	5757 Oct 31 11:13	22° $\text{M}$ 40'40			5758 Sep 22 09:36	0° $\text{M}$	
min. Earth dist.	5757 Nov 04 03:25	19° $\text{M}$ 32'56	0.63289 AU	evening max el	5758 Sep 22 22:02	0° $\text{M}$ 29'44	27°10'35
inferior conj	5757 Nov 06 20:05	16° $\text{M}$ 52'35	-2°57'09	retrograde	5758 Oct 06 18:47	7° $\text{M}$ 42'16	
minimum elong	5757 Nov 07 01:18	16° $\text{M}$ 39'38	2°55'16	evening set	5758 Oct 13 20:57	5° $\text{M}$ 26'11	
morning rise	5757 Nov 13 17:01	11° $\text{M}$ 38'02		min. Earth dist.	5758 Oct 17 12:37	2° $\text{M}$ 42'02	0.61355 AU
direct	5757 Nov 16 02:41	11° $\text{M}$ 10'33		inferior conj	5758 Oct 20 14:47	29° $\text{Q}$ 59'22	-3°59'14
asc. node	5757 Nov 16 00:03	11° $\text{M}$ 10'36		minimum elong	5758 Oct 20 21:13	29° $\text{Q}$ 45'12	3°57'24
morning max el	5757 Nov 22 17:23	14° $\text{M}$ 35'39	17°49'20		5758 Oct 20 14:30	30° $\text{R}$ $\text{Q}$	
	5757 Dec 03 10:24	0° $\text{X}$		morning rise	5758 Oct 27 23:31	25° $\text{Q}$ 04'32	
morning set	5757 Dec 09 01:03	9° $\text{X}$ 42'53		direct	5758 Oct 30 06:36	24° $\text{Q}$ 42'45	
	5757 Dec 20 22:11	0° $\text{Z}$		asc. node	5758 Nov 02 21:03	25° $\text{Q}$ 38'38	
superior conj	5757 Dec 21 02:58	0° $\text{Z}$ 19'48	0°06'18	morning max el	5758 Nov 06 08:29	28° $\text{Q}$ 15'52	17°56'03
minimum elong	5757 Dec 21 03:37	0° $\text{Z}$ 22'31	0°06'15		5758 Nov 07 23:15	0° $\text{M}$	
behind sun begin	5757 Dec 20 18:50	29° $\text{X}$ 46'08		morning set	5758 Nov 22 02:15	23° $\text{M}$ 00'53	
behind sun end	5757 Dec 21 12:24	0° $\text{Z}$ 58'49			5758 Nov 25 22:06	0° $\text{X}$	
desc. node	5757 Dec 22 00:13	1° $\text{Z}$ 47'33		superior conj	5758 Dec 02 11:42	11° $\text{X}$ 41'41	0°44'50
max. Earth dist.	5757 Dec 27 10:38	10° $\text{Z}$ 36'47	1.44137 AU	minimum elong	5758 Dec 02 15:10	11° $\text{X}$ 56'43	0°44'22
evening rise	5758 Jan 05 12:50	24° $\text{Z}$ 52'46		desc. node	5758 Dec 08 21:16	22° $\text{X}$ 34'39	
	5758 Jan 08 21:04	0° $\approx$		max. Earth dist.	5758 Dec 09 23:49	24° $\text{X}$ 24'27	1.42583 AU
	5758 Jan 29 16:41	0° $\text{K}$			5758 Dec 13 10:17	0° $\text{Z}$	
evening max el	5758 Feb 03 20:57	6° $\text{K}$ 01'48	20°54'37	evening rise	5758 Dec 16 06:53	4° $\text{Z}$ 33'21	
asc. node	5758 Feb 11 23:19	10° $\text{K}$ 59'17					

	5759 Jan 02 05:40	0°♊		retrograde	5760 Jan 10 21:47	9°♊34'10	
evening max el	5759 Jan 17 15:59	19°♊38'08	22°09'18	evening set	5760 Jan 15 22:29	7°♊29'17	
retrograde	5759 Jan 27 03:42	25°♊16'30		asc. node	5760 Jan 16 17:21	6°♊46'29	
asc. node	5759 Jan 29 20:20	24°♊38'24		inferior conj	5760 Jan 21 08:28	1°♊03'36	1°30'04
evening set	5759 Jan 31 16:09	23°♊27'00		minimum elong	5760 Jan 21 06:35	1°♊10'03	1°29'23
inferior conj	5759 Feb 06 00:24	17°♊06'23	2°12'33	min. Earth dist.	5760 Jan 20 20:11	1°♊45'42	0.68100 AU
minimum elong	5759 Feb 05 22:05	17°♊14'29	2°11'50		5760 Jan 22 03:07	30°♋♊	
min. Earth dist.	5759 Feb 05 23:22	17°♊09'59	0.68153 AU	morning rise	5760 Jan 26 14:37	24°♋57'39	
morning rise	5759 Feb 11 03:50	10°♊55'41		direct	5760 Jan 30 19:27	23°♋18'53	
direct	5759 Feb 15 22:43	8°♊54'10		morning max el	5760 Feb 08 03:54	28°♋07'45	20°59'18
morning max el	5759 Feb 25 11:23	14°♊30'48	22°21'28		5760 Feb 09 22:24	0°♋	
desc. node	5759 Mar 06 20:33	25°♋45'14		desc. node	5760 Feb 21 17:35	15°♋27'22	
	5759 Mar 09 23:20	0°♋			5760 Mar 02 13:41	0°♋	
	5759 Mar 29 20:59	0°♋		morning set	5760 Mar 09 11:02	10°♋37'00	
morning set	5759 Mar 31 01:11	1°♋54'16		max. Earth dist.	5760 Mar 17 07:36	23°♋09'35	1.42732 AU
max. Earth dist.	5759 Apr 05 04:17	10°♋24'31	1.40726 AU		5760 Mar 21 11:09	0°♋	
superior conj	5759 Apr 12 23:32	23°♋59'25	-1°54'26	superior conj	5760 Mar 24 09:24	4°♋55'41	-2°08'11
minimum elong	5759 Apr 13 04:28	24°♋21'31	1°54'03	minimum elong	5760 Mar 24 11:33	5°♋04'47	2°08'09
	5759 Apr 16 07:04	0°♋		evening rise	5760 Apr 05 01:45	25°♋23'50	
evening rise	5759 Apr 23 04:44	12°♋51'42			5760 Apr 07 15:30	0°♋	
asc. node	5759 Apr 27 19:35	21°♋26'25		asc. node	5760 Apr 13 16:37	10°♋30'09	
	5759 May 02 18:32	0°♋		evening max el	5760 Apr 21 19:43	21°♋42'01	18°06'38
evening max el	5759 May 09 08:22	8°♋41'13	18°19'39	retrograde	5760 Apr 28 10:18	25°♋04'55	
retrograde	5759 May 16 14:34	12°♋18'21		evening set	5760 May 01 01:48	24°♋32'23	
evening set	5759 May 18 23:06	11°♋56'25		inferior conj	5760 May 07 15:41	19°♋33'40	2°56'35
inferior conj	5759 May 26 05:23	7°♋18'21	2°03'50	minimum elong	5760 May 07 18:33	19°♋26'42	2°56'01
minimum elong	5759 May 26 08:46	7°♋11'15	2°02'51	min. Earth dist.	5760 May 10 19:56	16°♋29'50	0.61110 AU
min. Earth dist.	5759 May 29 15:46	4°♋26'43	0.58889 AU	morning rise	5760 May 14 09:14	13°♋37'32	
morning rise	5759 Jun 02 15:21	1°♋43'21		desc. node	5760 May 19 16:51	11°♋27'51	
desc. node	5759 Jun 02 19:49	1°♋37'19		direct	5760 May 21 02:07	11°♋22'12	
direct	5759 Jun 08 20:13	0°♋00'03		morning max el	5760 Jun 04 07:55	19°♋19'54	27°50'38
morning max el	5759 Jun 23 05:32	7°♋47'22	27°16'28		5760 Jun 13 09:06	0°♋	
	5759 Jul 09 23:50	0°♋			5760 Jul 01 20:04	0°♋	
morning set	5759 Jul 24 00:27	26°♋14'23		morning set	5760 Jul 07 04:51	10°♋38'19	
asc. node	5759 Jul 24 18:49	27°♋51'10		asc. node	5760 Jul 10 15:53	17°♋54'57	
	5759 Jul 25 19:00	0°♋		max. Earth dist.	5760 Jul 13 03:28	23°♋17'30	1.32052 AU
max. Earth dist.	5759 Jul 30 17:38	10°♋48'06	1.31868 AU				
superior conj	5759 Jul 31 02:06	11°♋34'52	1°01'27	superior conj	5760 Jul 14 12:50	26°♋20'13	0°39'20
minimum elong	5759 Jul 30 23:54	11°♋22'42	1°01'02	minimum elong	5760 Jul 14 11:10	26°♋11'05	0°38'59
evening rise	5759 Aug 06 21:21	26°♋26'05			5760 Jul 16 04:48	0°♋	
	5759 Aug 08 14:07	0°♋		evening rise	5760 Jul 21 08:18	11°♋12'31	
	5759 Aug 25 15:44	0°♋			5760 Jul 30 20:49	0°♋	
desc. node	5759 Aug 29 19:05	5°♋30'46		desc. node	5760 Aug 15 16:06	22°♋15'51	
evening max el	5759 Sep 04 22:16	12°♋15'07	26°20'11	evening max el	5760 Aug 16 14:56	23°♋12'01	25°00'55
retrograde	5759 Sep 18 21:07	19°♋22'42			5760 Aug 28 03:09	0°♋	
evening set	5759 Sep 25 11:16	17°♋36'10		retrograde	5760 Aug 30 12:40	0°♋13'22	
min. Earth dist.	5759 Sep 29 11:38	15°♋01'21	0.59285 AU		5760 Sep 01 22:17	30°♋♋	
inferior conj	5759 Oct 02 17:14	12°♋32'58	-4°51'00	evening set	5760 Sep 05 01:44	29°♋03'39	
minimum elong	5759 Oct 02 22:58	12°♋21'57	4°49'59	min. Earth dist.	5760 Sep 10 02:23	26°♋20'11	0.57304 AU
morning rise	5759 Oct 10 12:50	8°♋00'16		inferior conj	5760 Sep 13 00:19	24°♋24'09	-5°19'41
direct	5759 Oct 12 21:00	7°♋41'13		minimum elong	5760 Sep 13 02:01	24°♋21'19	5°19'37
asc. node	5759 Oct 20 18:05	11°♋30'55		morning rise	5760 Sep 21 04:33	20°♋14'04	
morning max el	5759 Oct 20 18:10	11°♋31'07	18°22'29	direct	5760 Sep 23 17:50	19°♋55'14	
	5759 Nov 02 00:47	0°♋		morning max el	5760 Oct 02 19:02	24°♋11'52	19°10'17
morning set	5759 Nov 05 16:47	6°♋56'01		asc. node	5760 Oct 06 15:08	28°♋33'05	
					5760 Oct 07 16:40	0°♋	
				morning set	5760 Oct 19 16:29	21°♋16'48	
superior conj	5759 Nov 14 19:39	24°♋10'10	1°13'19		5760 Oct 24 01:37	0°♋	
minimum elong	5759 Nov 14 23:22	24°♋27'14	1°12'53				
	5759 Nov 18 00:49	0°♋		superior conj	5760 Oct 27 21:35	7°♋30'55	1°31'41
max. Earth dist.	5759 Nov 22 08:04	7°♋32'21	1.40626 AU	minimum elong	5760 Oct 28 00:12	7°♋43'35	1°31'29
desc. node	5759 Nov 25 18:19	13°♋20'05		max. Earth dist.	5760 Nov 03 13:27	19°♋59'59	1.38506 AU
evening rise	5759 Nov 26 20:10	15°♋07'13		evening rise	5760 Nov 07 08:12	26°♋42'26	
	5759 Dec 06 05:32	0°♋			5760 Nov 09 06:09	0°♋	
	5759 Dec 28 05:03	0°♋		desc. node	5760 Nov 11 15:20	4°♋00'11	
evening max el	5759 Dec 31 07:10	3°♋18'05	23°29'02		5760 Nov 28 18:56	0°♋	

evening max el	5760 Dec 12 20:20	17° $\text{♄}$ 01'32	24°47'24	desc. node	5761 Oct 29 12:21	24° $\text{♄}$ 30'51	
retrograde	5760 Dec 24 11:53	23° $\text{♄}$ 48'07			5761 Nov 01 22:23	0° $\text{♄}$	
evening set	5760 Dec 30 01:52	21° $\text{♄}$ 28'39			5761 Nov 24 14:20	0° $\text{♄}$	
asc. node	5761 Jan 02 14:25	17° $\text{♄}$ 40'27		evening max el	5761 Nov 25 09:00	0° $\text{♄}$ 46'10	25°57'18
min. Earth dist.	5761 Jan 03 15:31	16° $\text{♄}$ 19'17	0.67679 AU	retrograde	5761 Dec 07 21:17	7° $\text{♄}$ 53'30	
inferior conj	5761 Jan 04 14:51	15° $\text{♄}$ 02'10	0°40'34	evening set	5761 Dec 14 00:37	5° $\text{♄}$ 21'59	
minimum elong	5761 Jan 04 13:52	15° $\text{♄}$ 05'23	0°40'11	min. Earth dist.	5761 Dec 18 07:09	0° $\text{♄}$ 47'31	0.66898 AU
morning rise	5761 Jan 10 02:02	9° $\text{♄}$ 02'54			5761 Dec 18 22:24	30° $\text{♄}$	
direct	5761 Jan 13 17:58	7° $\text{♄}$ 45'48		inferior conj	5761 Dec 19 17:42	28° $\text{♄}$ 59'24	-0°15'05
morning max el	5761 Jan 21 04:19	11° $\text{♄}$ 56'44	19°49'18	minimum elong	5761 Dec 19 18:06	28° $\text{♄}$ 58'09	0°14'53
greatest brilliancy	5761 Feb 03 06:51	29° $\text{♄}$ 06'11	-0.6m	transit middle	5761 Dec 19 18:06	28° $\text{♄}$ 58'09	0°14'53
	5761 Feb 03 21:27	0° $\text{♄}$		transit begin	5761 Dec 19 17:00	29° $\text{♄}$ 01'34	
desc. node	5761 Feb 07 14:36	5° $\text{♄}$ 32'49		transit end	5761 Dec 19 19:11	28° $\text{♄}$ 54'44	
morning set	5761 Feb 16 07:28	18° $\text{♄}$ 49'20		asc. node	5761 Dec 20 11:27	28° $\text{♄}$ 04'11	
	5761 Feb 23 11:59	0° $\text{♄}$		morning rise	5761 Dec 25 12:06	23° $\text{♄}$ 09'00	
max. Earth dist.	5761 Feb 27 18:51	6° $\text{♄}$ 46'16	1.44274 AU	direct	5761 Dec 28 16:43	22° $\text{♄}$ 10'43	
				morning max el	5762 Jan 04 12:25	25° $\text{♄}$ 55'48	18°54'17
superior conj	5761 Mar 04 17:53	14° $\text{♄}$ 44'01	-2°06'22		5762 Jan 08 01:54	0° $\text{♄}$	
minimum elong	5761 Mar 04 14:02	14° $\text{♄}$ 28'26	2°06'14	desc. node	5762 Jan 25 11:37	25° $\text{♄}$ 55'22	
	5761 Mar 13 23:41	0° $\text{♄}$		morning set	5762 Jan 26 15:26	27° $\text{♄}$ 44'03	
evening rise	5761 Mar 18 03:52	7° $\text{♄}$ 04'05			5762 Jan 28 02:14	0° $\text{♄}$	
asc. node	5761 Mar 31 13:41	29° $\text{♄}$ 02'57		max. Earth dist.	5762 Feb 10 11:29	20° $\text{♄}$ 56'38	1.45174 AU
	5761 Apr 01 05:50	0° $\text{♄}$					
evening max el	5761 Apr 05 08:43	4° $\text{♄}$ 59'28	18°12'39	superior conj	5762 Feb 12 04:28	23° $\text{♄}$ 37'41	-1°44'49
retrograde	5761 Apr 11 18:22	8° $\text{♄}$ 23'08		minimum elong	5762 Feb 11 19:23	23° $\text{♄}$ 01'58	1°44'03
evening set	5761 Apr 14 16:17	7° $\text{♄}$ 38'35			5762 Feb 16 05:17	0° $\text{♄}$	
inferior conj	5761 Apr 20 17:52	2° $\text{♄}$ 20'29	3°23'43	evening rise	5762 Feb 27 07:23	17° $\text{♄}$ 47'07	
minimum elong	5761 Apr 20 19:15	2° $\text{♄}$ 16'40	3°23'34		5762 Mar 06 20:11	0° $\text{♄}$	
	5761 Apr 22 21:00	30° $\text{♄}$		asc. node	5762 Mar 18 10:44	16° $\text{♄}$ 55'15	
min. Earth dist.	5761 Apr 23 09:03	29° $\text{♄}$ 27'48	0.63227 AU	evening max el	5762 Mar 19 20:32	18° $\text{♄}$ 26'51	18°37'06
morning rise	5761 Apr 26 21:03	26° $\text{♄}$ 12'17		retrograde	5762 Mar 26 10:25	22° $\text{♄}$ 04'11	
direct	5761 May 03 17:05	23° $\text{♄}$ 33'53		evening set	5762 Mar 29 14:50	21° $\text{♄}$ 06'49	
desc. node	5761 May 06 13:53	23° $\text{♄}$ 58'51		inferior conj	5762 Apr 04 07:52	15° $\text{♄}$ 31'08	3°31'00
	5761 May 16 00:30	0° $\text{♄}$		minimum elong	5762 Apr 04 07:44	15° $\text{♄}$ 31'34	3°30'59
morning max el	5761 May 17 15:31	1° $\text{♄}$ 34'09	27°46'53	min. Earth dist.	5762 Apr 06 07:42	13° $\text{♄}$ 06'51	0.65043 AU
	5761 Jun 07 14:22	0° $\text{♄}$		morning rise	5762 Apr 10 00:01	9° $\text{♄}$ 17'17	
morning set	5761 Jun 21 02:46	24° $\text{♄}$ 40'09		direct	5762 Apr 16 15:52	6° $\text{♄}$ 28'25	
	5761 Jun 23 17:34	0° $\text{♄}$		desc. node	5762 Apr 23 10:55	8° $\text{♄}$ 48'37	
max. Earth dist.	5761 Jun 26 08:14	5° $\text{♄}$ 28'33	1.32677 AU	morning max el	5762 Apr 30 01:36	14° $\text{♄}$ 21'05	27°08'43
asc. node	5761 Jun 27 12:56	8° $\text{♄}$ 01'42			5762 May 12 18:46	0° $\text{♄}$	
					5762 May 31 06:53	0° $\text{♄}$	
superior conj	5761 Jun 28 20:40	10° $\text{♄}$ 52'23	0°13'41	morning set	5762 Jun 04 15:22	8° $\text{♄}$ 11'46	
minimum elong	5761 Jun 28 20:00	10° $\text{♄}$ 48'50	0°13'31	max. Earth dist.	5762 Jun 09 04:00	17° $\text{♄}$ 11'15	1.33765 AU
behind sun begin	5761 Jun 28 17:11	10° $\text{♄}$ 33'34					
behind sun end	5761 Jun 28 22:50	11° $\text{♄}$ 04'06		superior conj	5762 Jun 12 23:31	25° $\text{♄}$ 05'34	-0°14'46
evening rise	5761 Jul 05 20:06	25° $\text{♄}$ 57'38		minimum elong	5762 Jun 13 00:18	25° $\text{♄}$ 09'40	0°14'38
	5761 Jul 07 18:11	0° $\text{♄}$		behind sun begin	5762 Jun 12 22:01	24° $\text{♄}$ 57'37	
	5761 Jul 25 18:54	0° $\text{♄}$		behind sun end	5762 Jun 13 02:36	25° $\text{♄}$ 21'44	
evening max el	5761 Jul 29 03:09	3° $\text{♄}$ 35'20	23°25'02	asc. node	5762 Jun 14 09:59	28° $\text{♄}$ 07'34	
desc. node	5761 Aug 02 13:07	7° $\text{♄}$ 14'09			5762 Jun 15 07:09	0° $\text{♄}$	
retrograde	5761 Aug 11 16:01	10° $\text{♄}$ 22'25		evening rise	5762 Jun 20 06:52	10° $\text{♄}$ 35'33	
evening set	5761 Aug 15 17:28	9° $\text{♄}$ 46'18			5762 Jun 30 08:47	0° $\text{♄}$	
min. Earth dist.	5761 Aug 22 12:36	6° $\text{♄}$ 37'01	0.55713 AU	evening max el	5762 Jul 10 18:56	13° $\text{♄}$ 58'11	21°48'49
inferior conj	5761 Aug 24 11:19	5° $\text{♄}$ 28'07	-5°08'22	desc. node	5762 Jul 20 10:09	19° $\text{♄}$ 51'40	
minimum elong	5761 Aug 24 06:23	5° $\text{♄}$ 35'26	5°07'49	retrograde	5762 Jul 23 08:27	20° $\text{♄}$ 11'53	
morning rise	5761 Sep 01 21:40	1° $\text{♄}$ 35'24		evening set	5762 Jul 26 00:33	19° $\text{♄}$ 55'50	
direct	5761 Sep 04 19:07	1° $\text{♄}$ 15'00		inferior conj	5762 Aug 04 07:29	15° $\text{♄}$ 53'55	-4°04'50
morning max el	5761 Sep 15 08:24	6° $\text{♄}$ 09'37	20°20'16	minimum elong	5762 Aug 03 22:31	16° $\text{♄}$ 06'29	4°02'30
asc. node	5761 Sep 23 12:12	16° $\text{♄}$ 30'14		min. Earth dist.	5762 Aug 03 22:23	16° $\text{♄}$ 06'40	0.54847 AU
	5761 Sep 30 23:53	0° $\text{♄}$		morning rise	5762 Aug 12 21:53	12° $\text{♄}$ 03'14	
morning set	5761 Oct 03 22:19	5° $\text{♄}$ 54'43		direct	5762 Aug 16 06:01	11° $\text{♄}$ 38'48	
				morning max el	5762 Aug 28 09:39	17° $\text{♄}$ 21'03	21°50'12
superior conj	5761 Oct 11 12:37	21° $\text{♄}$ 30'13	1°41'06		5762 Sep 07 08:10	0° $\text{♄}$	
minimum elong	5761 Oct 11 13:44	21° $\text{♄}$ 35'49	1°41'05	asc. node	5762 Sep 10 09:14	5° $\text{♄}$ 09'01	
	5761 Oct 15 19:25	0° $\text{♄}$		morning set	5762 Sep 18 07:52	20° $\text{♄}$ 42'10	
max. Earth dist.	5761 Oct 16 20:13	1° $\text{♄}$ 59'35	1.36467 AU		5762 Sep 22 17:26	0° $\text{♄}$	
evening rise	5761 Oct 20 16:58	9° $\text{♄}$ 14'25					

superior conj	5762 Sep 25 12:44	5° $\Omega$ 55'25	1°42'52	morning set	5763 Sep 02 19:17	5° $\Pi$ 34'09	
minimum elong	5762 Sep 25 12:26	5° $\Omega$ 53'46	1°42'53				
max. Earth dist.	5762 Sep 29 09:03	13° $\Omega$ 51'56	1.34716 AU	superior conj	5763 Sep 09 18:58	20° $\Pi$ 37'36	1°38'07
evening rise	5762 Oct 03 18:25	22° $\Omega$ 32'10		minimum elong	5763 Sep 09 17:34	20° $\Pi$ 30'00	1°38'01
	5762 Oct 07 18:13	0° $\Pi$		max. Earth dist.	5763 Sep 12 06:43	25° $\Pi$ 57'08	1.33370 AU
desc. node	5762 Oct 16 09:23	14° $\Pi$ 46'04			5763 Sep 14 04:59	0° $\Omega$	
	5762 Oct 26 15:51	0° $\mathcal{A}$		evening rise	5763 Sep 17 08:33	6° $\Omega$ 25'29	
evening max el	5762 Nov 07 21:44	14° $\mathcal{A}$ 24'57	26°51'31		5763 Sep 30 08:16	0° $\Pi$	
retrograde	5762 Nov 21 01:18	21° $\mathcal{A}$ 42'28		desc. node	5763 Oct 03 06:25	4° $\Pi$ 38'59	
evening set	5762 Nov 27 16:42	19° $\mathcal{A}$ 03'55		evening max el	5763 Oct 21 10:00	27° $\Pi$ 48'29	27°22'42
min. Earth dist.	5762 Dec 01 16:46	15° $\mathcal{A}$ 04'33	0.65759 AU		5763 Oct 23 21:00	0° $\mathcal{A}$	
inferior conj	5762 Dec 03 14:57	12° $\mathcal{A}$ 50'26	-1°15'49	retrograde	5763 Nov 03 23:17	5° $\mathcal{A}$ 06'53	
minimum elong	5762 Dec 03 17:06	12° $\mathcal{A}$ 44'09	1°14'53	evening set	5763 Nov 10 23:37	2° $\mathcal{A}$ 28'59	
asc. node	5762 Dec 07 08:29	8° $\mathcal{A}$ 53'30			5763 Nov 13 19:43	30° $\mathcal{R}$ $\Pi$	
morning rise	5762 Dec 09 18:29	7° $\mathcal{A}$ 11'24		min. Earth dist.	5763 Nov 14 18:14	29° $\Pi$ 03'18	0.64279 AU
direct	5762 Dec 12 13:47	6° $\mathcal{A}$ 28'10		inferior conj	5763 Nov 17 04:12	26° $\Pi$ 30'04	-2°19'54
morning max el	5762 Dec 19 02:07	9° $\mathcal{A}$ 58'27	18°15'31	minimum elong	5763 Nov 17 08:20	26° $\Pi$ 19'07	2°18'16
	5763 Jan 02 03:34	0° $\mathcal{B}$		morning rise	5763 Nov 23 18:27	21° $\Pi$ 05'21	
morning set	5763 Jan 07 03:09	8° $\mathcal{B}$ 03'43		asc. node	5763 Nov 24 05:30	20° $\Pi$ 54'44	
desc. node	5763 Jan 12 08:37	16° $\mathcal{B}$ 29'34		direct	5763 Nov 26 06:50	20° $\Pi$ 33'10	
	5763 Jan 20 20:34	0° $\approx$		morning max el	5763 Dec 02 18:42	23° $\Pi$ 57'58	17°53'46
					5763 Dec 07 15:43	0° $\mathcal{A}$	
superior conj	5763 Jan 22 08:01	2° $\approx$ 19'29	-1°05'57	morning set	5763 Dec 19 19:33	19° $\mathcal{A}$ 47'54	
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max. Earth dist.	5763 Jan 24 06:23	5° $\approx$ 21'31	1.45344 AU	desc. node	5763 Dec 30 05:38	7° $\mathcal{B}$ 11'31	
evening rise	5763 Feb 07 12:05	27° $\approx$ 36'23					
	5763 Feb 09 00:52	0° $\mathcal{H}$		superior conj	5764 Jan 02 00:35	11° $\mathcal{B}$ 43'32	-0°19'33
greatest brilliancy	5763 Feb 19 00:20	15° $\mathcal{H}$ 28'51	-0.7m	minimum elong	5764 Jan 01 22:19	11° $\mathcal{B}$ 34'20	0°19'11
	5763 Mar 01 09:33	0° $\mathcal{Y}$		max. Earth dist.	5764 Jan 07 01:16	19° $\mathcal{B}$ 45'54	1.44778 AU
evening max el	5763 Mar 03 04:57	1° $\mathcal{Y}$ 59'11	19°18'54		5764 Jan 13 14:00	0° $\approx$	
asc. node	5763 Mar 05 07:45	3° $\mathcal{Y}$ 54'56		evening rise	5764 Jan 18 01:09	6° $\approx$ 53'38	
retrograde	5763 Mar 10 06:52	6° $\mathcal{Y}$ 01'15			5764 Feb 02 09:29	0° $\mathcal{H}$	
evening set	5763 Mar 13 18:33	4° $\mathcal{Y}$ 50'13		evening max el	5764 Feb 14 08:29	15° $\mathcal{H}$ 33'47	20°16'01
	5763 Mar 18 11:13	30° $\mathcal{R}$ $\mathcal{H}$		asc. node	5764 Feb 20 04:46	19° $\mathcal{H}$ 47'46	
inferior conj	5763 Mar 19 06:11	28° $\mathcal{H}$ 58'54	3°23'06	retrograde	5764 Feb 22 05:01	20° $\mathcal{H}$ 09'11	
minimum elong	5763 Mar 19 04:51	29° $\mathcal{H}$ 03'16	3°22'56	evening set	5764 Feb 26 01:13	18° $\mathcal{H}$ 43'40	
min. Earth dist.	5763 Mar 20 14:48	27° $\mathcal{H}$ 13'12	0.66459 AU	inferior conj	5764 Mar 02 09:59	12° $\mathcal{H}$ 38'49	3°03'13
morning rise	5763 Mar 24 14:48	22° $\mathcal{H}$ 43'28		minimum elong	5764 Mar 02 07:53	12° $\mathcal{H}$ 45'56	3°02'49
direct	5763 Mar 30 21:11	19° $\mathcal{H}$ 56'54		min. Earth dist.	5764 Mar 03 04:29	11° $\mathcal{H}$ 36'00	0.67450 AU
desc. node	5763 Apr 10 07:55	25° $\mathcal{H}$ 23'35		morning rise	5764 Mar 07 14:20	6° $\mathcal{H}$ 24'09	
morning max el	5763 Apr 12 11:30	27° $\mathcal{H}$ 27'38	26°03'43	direct	5764 Mar 13 07:59	3° $\mathcal{H}$ 50'23	
	5763 Apr 14 20:51	0° $\mathcal{Y}$		morning max el	5764 Mar 24 20:11	10° $\mathcal{H}$ 43'35	24°41'27
	5763 May 06 10:57	0° $\mathcal{B}$		desc. node	5764 Mar 27 04:55	13° $\mathcal{H}$ 14'28	
morning set	5763 May 18 14:53	21° $\mathcal{B}$ 02'32			5764 Apr 09 04:11	0° $\mathcal{Y}$	
max. Earth dist.	5763 May 22 12:22	28° $\mathcal{B}$ 24'59	1.35317 AU		5764 Apr 28 03:40	0° $\mathcal{B}$	
	5763 May 23 07:56	0° $\Pi$		morning set	5764 Apr 29 20:12	2° $\mathcal{B}$ 57'12	
				max. Earth dist.	5764 May 03 10:58	9° $\mathcal{B}$ 26'48	1.37281 AU
superior conj	5763 May 27 18:59	8° $\Pi$ 53'17	-0°44'49				
minimum elong	5763 May 27 21:29	9° $\Pi$ 06'01	0°44'21	superior conj	5764 May 10 03:51	22° $\mathcal{B}$ 06'09	-1°14'42
asc. node	5763 Jun 01 07:00	18° $\Pi$ 08'49		minimum elong	5764 May 10 08:03	22° $\mathcal{B}$ 26'35	1°14'03
evening rise	5763 Jun 04 14:35	25° $\Pi$ 00'22			5764 May 14 04:00	0° $\Pi$	
	5763 Jun 07 01:32	0° $\mathcal{B}$		asc. node	5764 May 18 04:01	8° $\Pi$ 00'28	
evening max el	5763 Jun 22 21:42	24° $\mathcal{B}$ 52'24	20°25'12	evening rise	5764 May 18 16:48	9° $\Pi$ 04'16	
	5763 Jul 01 10:42	0° $\Omega$			5764 May 30 07:01	0° $\mathcal{B}$	
retrograde	5763 Jul 03 21:12	0° $\Omega$ 15'30		evening max el	5764 Jun 04 13:05	6° $\mathcal{B}$ 28'30	19°20'20
evening set	5763 Jul 05 20:39	0° $\Omega$ 05'47		retrograde	5764 Jun 13 19:07	11° $\mathcal{B}$ 00'18	
	5763 Jul 06 09:20	30° $\mathcal{R}$ $\mathcal{B}$		evening set	5764 Jun 15 17:46	10° $\mathcal{B}$ 49'10	
desc. node	5763 Jul 07 07:11	29° $\mathcal{B}$ 47'06		desc. node	5764 Jun 23 04:12	7° $\mathcal{B}$ 24'48	
inferior conj	5763 Jul 15 01:22	26° $\mathcal{B}$ 08'25	-2°18'14	inferior conj	5764 Jun 24 07:01	6° $\mathcal{B}$ 41'15	-0°20'03
minimum elong	5763 Jul 14 18:58	26° $\mathcal{B}$ 17'44	2°15'58	minimum elong	5764 Jun 24 06:08	6° $\mathcal{B}$ 42'41	0°19'45
min. Earth dist.	5763 Jul 16 09:50	25° $\mathcal{B}$ 21'11	0.54927 AU	min. Earth dist.	5764 Jun 26 23:36	4° $\mathcal{B}$ 55'50	0.55948 AU
morning rise	5763 Jul 23 16:18	21° $\mathcal{B}$ 59'21		morning rise	5764 Jul 02 15:40	1° $\mathcal{B}$ 59'09	
direct	5763 Jul 27 16:07	21° $\mathcal{B}$ 24'56		direct	5764 Jul 07 12:24	1° $\mathcal{B}$ 05'13	
morning max el	5763 Aug 10 01:55	27° $\mathcal{B}$ 55'30	23°32'44	morning max el	5764 Jul 21 15:09	8° $\mathcal{B}$ 14'26	25°14'56
	5763 Aug 12 03:40	0° $\Omega$			5764 Aug 06 17:53	0° $\Omega$	
asc. node	5763 Aug 28 06:16	24° $\Omega$ 19'28		asc. node	5764 Aug 14 03:17	13° $\Omega$ 52'40	
	5763 Aug 31 02:59	0° $\Pi$		morning set	5764 Aug 17 06:53	20° $\Omega$ 25'06	
































































































































	5764 Aug 21 17:03	0°♎		superior conj	5765 Aug 08 16:32	20°♏22'15	1°12'20
				minimum elong	5765 Aug 08 14:14	20°♏09'34	1°11'57
superior conj	5764 Aug 24 04:53	5°♎28'35	1°27'42	max. Earth dist.	5765 Aug 08 22:18	20°♏54'09	1.31964 AU
minimum elong	5764 Aug 24 02:48	5°♎17'10	1°27'27		5765 Aug 13 01:47	0°♎	
max. Earth dist.	5764 Aug 25 12:09	8°♎19'46	1.32455 AU	evening rise	5765 Aug 15 13:26	5°♎18'43	
evening rise	5764 Aug 31 07:49	20°♎43'44			5765 Aug 28 14:53	0°♏	
	5764 Sep 04 23:26	0°♏		desc. node	5765 Sep 06 00:29	12°♏35'57	
desc. node	5764 Sep 19 03:27	23°♏59'57		evening max el	5765 Sep 14 24:00	22°♏56'14	26°53'05
	5764 Sep 23 10:42	0°♎			5765 Sep 27 08:25	0°♎	
evening max el	5764 Oct 02 19:43	10°♎43'22	27°24'33	retrograde	5765 Sep 28 21:26	0°♎06'03	
retrograde	5764 Oct 16 14:15	17°♎57'40			5765 Sep 30 10:05	30°♎♏	
evening set	5764 Oct 23 18:12	15°♎30'27		evening set	5765 Oct 05 20:13	28°♏01'08	
min. Earth dist.	5764 Oct 27 09:38	12°♎33'49	0.62491 AU	min. Earth dist.	5765 Oct 09 14:06	25°♏23'15	0.60479 AU
inferior conj	5764 Oct 30 06:36	9°♎51'08	-3°24'12	inferior conj	5765 Oct 12 18:47	22°♏44'37	-4°23'07
minimum elong	5764 Oct 30 12:29	9°♎37'14	3°22'14	minimum elong	5765 Oct 13 01:15	22°♏31'10	4°21'33
morning rise	5764 Nov 06 08:32	4°♎44'13		morning rise	5765 Oct 20 08:21	17°♏59'02	
direct	5764 Nov 08 16:45	4°♎19'28		direct	5765 Oct 22 15:35	17°♏38'36	
asc. node	5764 Nov 10 02:31	4°♎28'39		asc. node	5765 Oct 27 23:34	19°♏33'54	
morning max el	5764 Nov 15 11:12	7°♎47'01	17°49'53	morning max el	5765 Oct 30 00:23	21°♏17'22	18°04'53
	5764 Nov 29 23:16	0°♏			5765 Nov 05 15:19	0°♎	
morning set	5764 Dec 01 10:40	2°♏37'28		morning set	5765 Nov 14 18:06	16°♎12'51	
					5765 Nov 22 05:03	0°♏	
superior conj	5764 Dec 12 18:08	22°♏21'06	0°23'47	superior conj	5765 Nov 24 13:19	4°♏12'56	0°58'12
minimum elong	5764 Dec 12 20:21	22°♏30'27	0°23'29	minimum elong	5765 Nov 24 17:08	4°♏29'53	0°57'42
desc. node	5764 Dec 16 02:40	27°♏57'48		max. Earth dist.	5765 Dec 02 05:07	17°♏26'54	1.41781 AU
	5764 Dec 17 08:20	0°♏		desc. node	5765 Dec 02 23:43	18°♏44'31	
max. Earth dist.	5764 Dec 19 17:38	3°♏53'30	1.43541 AU	evening rise	5765 Dec 07 14:11	26°♏15'59	
evening rise	5764 Dec 27 12:58	16°♏15'25			5765 Dec 09 22:27	0°♏	
	5765 Jan 05 13:51	0°♏			5765 Dec 30 09:04	0°♏	
evening max el	5765 Jan 27 06:35	29°♏09'58	21°25'25	evening max el	5766 Jan 09 23:43	12°♏47'31	22°42'55
	5765 Jan 28 02:47	0°♏		retrograde	5766 Jan 19 22:46	18°♏42'30	
retrograde	5765 Feb 05 02:51	4°♏24'29		asc. node	5766 Jan 23 22:49	17°♏19'51	
asc. node	5765 Feb 06 01:46	4°♏19'38		evening set	5766 Jan 24 16:22	16°♏46'09	
evening set	5765 Feb 09 09:02	2°♏43'41		inferior conj	5766 Jan 30 01:10	10°♏22'48	1°55'27
	5765 Feb 12 01:06	30°♏♏		minimum elong	5766 Jan 29 22:58	10°♏30'24	1°54'43
inferior conj	5765 Feb 14 16:58	26°♏27'57	2°33'32	min. Earth dist.	5766 Jan 29 19:11	10°♏43'30	0.68176 AU
minimum elong	5765 Feb 14 14:36	26°♏36'12	2°32'54	morning rise	5766 Feb 04 05:28	4°♏14'08	
min. Earth dist.	5765 Feb 14 22:42	26°♏08'06	0.68015 AU	direct	5766 Feb 08 18:14	2°♏22'32	
morning rise	5765 Feb 19 19:59	20°♏15'36		morning max el	5766 Feb 17 18:23	7°♏37'49	21°45'25
direct	5765 Feb 24 23:17	18°♏01'24		desc. node	5766 Feb 28 22:57	21°♏24'44	
morning max el	5765 Mar 07 05:22	24°♏06'29	23°12'17		5766 Mar 06 23:56	0°♏	
	5765 Mar 12 11:16	0°♏		morning set	5766 Mar 22 02:33	23°♏05'18	
desc. node	5765 Mar 14 01:56	2°♏00'06			5766 Mar 26 09:03	0°♏	
	5765 Apr 02 14:31	0°♏		max. Earth dist.	5766 Mar 28 06:04	3°♏05'51	1.41624 AU
morning set	5765 Apr 11 01:30	13°♏41'14		superior conj	5766 Apr 04 21:20	16°♏07'28	-2°01'48
max. Earth dist.	5765 Apr 15 06:37	20°♏52'04	1.39476 AU	minimum elong	5766 Apr 05 01:30	16°♏25'46	2°01'34
	5765 Apr 20 10:12	0°♏			5766 Apr 12 14:53	0°♏	
superior conj	5765 Apr 22 22:14	4°♏34'48	-1°41'41	evening rise	5766 Apr 15 16:33	5°♏38'24	
minimum elong	5765 Apr 23 03:24	4°♏58'42	1°41'08	asc. node	5766 Apr 21 22:06	16°♏56'22	
evening rise	5765 May 02 10:41	22°♏40'02			5766 Apr 30 13:38	0°♏	
asc. node	5765 May 05 01:03	27°♏38'12		evening max el	5766 May 01 23:47	1°♏31'01	18°11'37
	5765 May 06 07:11	0°♏		retrograde	5766 May 08 22:07	5°♏00'34	
evening max el	5765 May 18 14:56	18°♏44'09	18°35'52	evening set	5766 May 11 09:33	4°♏34'27	
retrograde	5765 May 26 11:19	22°♏36'52		inferior conj	5766 May 18 08:23	29°♏47'19	2°29'42
evening set	5765 May 28 15:46	22°♏19'50		minimum elong	5766 May 18 11:44	29°♏39'47	2°28'51
inferior conj	5765 Jun 05 09:00	17°♏53'05	1°19'51		5766 May 18 02:43	30°♏♏	
minimum elong	5765 Jun 05 11:42	17°♏47'54	1°18'55	min. Earth dist.	5766 May 21 17:15	26°♏47'23	0.59829 AU
min. Earth dist.	5765 Jun 08 17:17	15°♏20'08	0.57692 AU	morning rise	5766 May 25 11:12	24°♏01'43	
desc. node	5765 Jun 10 01:12	14°♏24'06		desc. node	5766 May 27 22:13	22°♏49'20	
morning rise	5765 Jun 13 04:21	12°♏35'15		direct	5766 May 31 22:00	22°♏04'19	
direct	5765 Jun 18 22:36	11°♏11'54			5766 Jun 15 07:47	0°♏	
morning max el	5765 Jul 03 07:43	18°♏47'52	26°40'29	morning max el	5766 Jun 15 06:44	29°♏57'25	27°35'40
	5765 Jul 12 18:05	0°♏			5766 Jul 06 18:11	0°♏	
	5765 Jul 30 05:17	0°♏		morning set	5766 Jul 17 00:13	19°♏44'36	
asc. node	5765 Aug 01 00:19	3°♏42'12		asc. node	5766 Jul 18 21:23	23°♏42'38	
morning set	5765 Aug 01 17:06	5°♏10'21					

	5766 Jul 21 19:14	0°♎		max. Earth dist.	5767 Jul 06 17:23	15°♊52'05	1.32258 AU
max. Earth dist.	5766 Jul 23 09:23	3°♎29'30	1.31892 AU				
superior conj	5766 Jul 24 04:08	5°♎12'53	0°52'32	superior conj	5767 Jul 08 13:52	19°♊53'50	0°28'51
minimum elong	5766 Jul 24 02:06	5°♎01'41	0°52'08	minimum elong	5767 Jul 08 12:35	19°♊46'47	0°28'34
evening rise	5766 Jul 30 23:02	20°♎03'18		evening rise	5767 Jul 13 04:44	0°♎	
	5766 Aug 04 19:02	0°♎			5767 Jul 28 18:20	0°♎	
desc. node	5766 Aug 23 21:31	0°♎09'03		evening max el	5767 Aug 09 10:44	14°♎59'51	24°21'15
	5766 Aug 23 18:23	0°♎		desc. node	5767 Aug 10 18:33	16°♎13'11	
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retrograde	5766 Sep 10 19:41	11°♎26'12		evening set	5767 Aug 28 04:58	21°♎03'18	
evening set	5766 Sep 17 00:54	9°♎54'31		min. Earth dist.	5767 Sep 02 21:44	18°♎10'25	0.56554 AU
min. Earth dist.	5766 Sep 21 09:04	7°♎18'34	0.58410 AU	inferior conj	5767 Sep 05 11:43	16°♎32'54	-5°20'49
inferior conj	5766 Sep 24 13:19	5°♎01'29	-5°06'57	minimum elong	5767 Sep 05 10:42	16°♎34'31	5°20'48
minimum elong	5766 Sep 24 17:48	4°♎53'24	5°06'25	morning rise	5767 Sep 13 18:49	12°♎31'18	
morning rise	5766 Oct 02 13:00	0°♎39'02		direct	5767 Sep 16 11:00	12°♎12'10	
direct	5766 Oct 04 22:48	0°♎20'25		morning max el	5767 Sep 26 03:10	16°♎44'04	19°37'21
morning max el	5766 Oct 13 06:51	4°♎20'09	18°40'14	asc. node	5767 Oct 01 17:41	23°♎25'54	
asc. node	5766 Oct 14 20:38	5°♎58'25			5767 Oct 05 20:48	0°♎	
	5766 Oct 29 08:47	0°♎		morning set	5767 Oct 13 15:35	14°♎49'09	
morning set	5766 Oct 29 12:58	0°♎20'23			5767 Oct 21 04:35	0°♎	
superior conj	5766 Nov 07 05:38	17°♎06'17	1°22'16	superior conj	5767 Oct 21 13:40	0°♎44'53	1°36'41
minimum elong	5766 Nov 07 08:59	17°♎22'00	1°21'56	minimum elong	5767 Oct 21 15:39	0°♎54'42	1°36'35
	5766 Nov 14 07:46	0°♎		max. Earth dist.	5767 Oct 27 16:19	12°♎27'36	1.37614 AU
max. Earth dist.	5766 Nov 14 11:31	0°♎16'29	1.39721 AU	evening rise	5767 Oct 31 10:25	19°♎16'39	
evening rise	5766 Nov 18 13:07	7°♎16'03		desc. node	5767 Nov 06 17:47	0°♎05'11	
desc. node	5766 Nov 19 20:45	9°♎28'29			5767 Nov 06 16:32	0°♎	
	5766 Dec 02 23:20	0°♎			5767 Nov 27 03:15	0°♎	
evening max el	5766 Dec 23 13:36	26°♎28'23	24°02'54	evening max el	5767 Dec 06 02:23	10°♎12'43	25°18'41
	5766 Dec 27 13:21	0°♎		retrograde	5767 Dec 18 03:43	17°♎09'56	
retrograde	5767 Jan 03 15:25	2°♎59'19		evening set	5767 Dec 23 23:16	14°♎45'07	
evening set	5767 Jan 08 21:39	0°♎47'53		min. Earth dist.	5767 Dec 28 09:51	9°♎50'14	0.67384 AU
	5767 Jan 09 18:32	30°♎		asc. node	5767 Dec 28 16:55	9°♎27'27	
asc. node	5767 Jan 10 19:52	28°♎53'00		inferior conj	5767 Dec 29 13:50	8°♎19'31	0°17'41
min. Earth dist.	5767 Jan 13 15:41	25°♎18'44	0.67961 AU	minimum elong	5767 Dec 29 13:24	8°♎20'57	0°17'30
inferior conj	5767 Jan 14 08:44	24°♎21'02	1°09'54	morning rise	5768 Jan 04 03:49	2°♎23'28	
minimum elong	5767 Jan 14 07:11	24°♎26'17	1°09'18	direct	5768 Jan 07 14:40	1°♎14'46	
morning rise	5767 Jan 19 16:45	18°♎17'38		morning max el	5768 Jan 14 17:57	5°♎13'37	19°23'54
direct	5767 Jan 23 15:48	16°♎48'32		greatest brilliancy	5768 Jan 27 21:31	22°♎42'10	-0.7m
morning max el	5767 Jan 31 14:13	21°♎20'19	20°27'50		5768 Feb 01 17:11	0°♎	
	5767 Feb 07 20:03	0°♎		desc. node	5768 Feb 02 17:01	1°♎31'11	
desc. node	5767 Feb 15 20:00	11°♎17'42		morning set	5768 Feb 08 02:14	9°♎48'31	
	5767 Feb 28 05:29	0°♎		max. Earth dist.	5768 Feb 21 01:43	0°♎03'58	1.44738 AU
morning set	5767 Mar 01 04:00	1°♎27'07			5768 Feb 21 00:43	0°♎	
max. Earth dist.	5767 Mar 10 12:23	16°♎12'39	1.43453 AU				
superior conj	5767 Mar 16 20:31	26°♎34'42	-2°09'40	superior conj	5768 Feb 24 18:41	5°♎57'02	-1°59'42
minimum elong	5767 Mar 16 20:25	26°♎34'17	2°09'39	minimum elong	5768 Feb 24 12:06	5°♎30'50	1°59'20
	5767 Mar 18 21:39	0°♎		evening rise	5768 Mar 09 22:51	29°♎05'34	
evening rise	5767 Mar 29 06:05	17°♎49'36			5768 Mar 10 11:54	0°♎	
	5767 Apr 05 06:08	0°♎		asc. node	5768 Mar 25 16:10	24°♎05'36	
asc. node	5767 Apr 08 19:08	5°♎48'16		evening max el	5768 Mar 29 01:04	28°♎03'18	18°20'57
evening max el	5767 Apr 15 12:11	14°♎40'04	18°06'54		5768 Mar 31 07:26	0°♎	
retrograde	5767 Apr 21 23:36	18°♎01'44		retrograde	5768 Apr 04 11:26	1°♎31'02	
evening set	5767 Apr 24 17:46	17°♎24'23		evening set	5768 Apr 07 12:06	0°♎41'08	
inferior conj	5767 May 01 01:58	12°♎17'30	3°10'51		5768 Apr 08 14:12	30°♎	
minimum elong	5767 May 01 04:15	12°♎11'37	3°10'29	inferior conj	5768 Apr 13 09:38	25°♎15'37	3°28'54
min. Earth dist.	5767 May 04 01:19	9°♎15'28	0.62034 AU	minimum elong	5768 Apr 13 10:21	25°♎13'34	3°28'50
morning rise	5767 May 07 13:01	6°♎15'02		min. Earth dist.	5768 Apr 15 18:31	22°♎33'10	0.64044 AU
direct	5767 May 14 08:16	3°♎48'09		morning rise	5768 Apr 19 07:43	19°♎04'37	
desc. node	5767 May 14 19:15	3°♎48'47		direct	5768 Apr 26 02:58	16°♎19'50	
morning max el	5767 May 28 11:41	11°♎49'00	27°53'31	desc. node	5768 Apr 30 16:16	17°♎23'06	
	5767 Jun 11 20:10	0°♎		morning max el	5768 May 09 20:26	24°♎18'15	27°34'26
	5767 Jun 29 02:19	0°♎			5768 May 14 23:37	0°♎	
morning set	5767 Jul 01 02:10	4°♎00'32			5768 Jun 04 05:30	0°♎	
asc. node	5767 Jul 05 18:25	13°♎48'28		morning set	5768 Jun 13 20:31	17°♎51'07	
				max. Earth dist.	5768 Jun 18 18:34	27°♎51'42	1.33083 AU

	5768 Jun 19 19:01	0°☿				5769 Apr 12 03:34	0°♊
				desc. node		5769 Apr 17 13:16	3°♊01'22
superior conj	5768 Jun 21 19:53	4°☿19'28 0°01'55		morning max el		5769 Apr 22 06:32	7°♊14'17 26°43'53
minimum elong	5768 Jun 21 19:47	4°☿18'57 0°01'53				5769 May 09 21:16	0°♋
behind sun begin	5768 Jun 21 14:25	3°☿50'17				5769 May 27 14:01	0°♌
behind sun end	5768 Jun 22 01:09	4°☿47'40		morning set		5769 May 28 04:02	1°♌06'23
asc. node	5768 Jun 21 15:27	3°☿55'47		max. Earth dist.		5769 Jun 01 09:42	9°♌21'42 1.34376 AU
evening rise	5768 Jun 28 22:09	19°☿33'24					
	5768 Jul 04 00:43	0°♌		superior conj		5769 Jun 05 19:55	18°♌22'41 -0°27'23
evening max el	5768 Jul 20 23:35	25°♌19'41 22°43'16		minimum elong		5769 Jun 05 21:24	18°♌30'24 0°27'06
	5768 Jul 27 03:06	0°♍		asc. node		5769 Jun 08 12:28	24°♌00'09
desc. node	5768 Jul 27 15:32	0°♍16'09				5769 Jun 11 08:48	0°☿
retrograde	5768 Aug 03 04:30	1°♍54'23		evening rise		5769 Jun 13 07:52	4°☿06'36
evening set	5768 Aug 06 14:23	1°♍28'55				5769 Jun 27 19:06	0°♌
	5768 Aug 10 15:58	30°♋♌		evening max el		5769 Jul 02 19:26	5°♌52'54 21°11'07
min. Earth dist.	5768 Aug 14 07:32	28°♌04'26 0.55248 AU		retrograde		5769 Jul 14 17:39	11°♌46'02
inferior conj	5768 Aug 15 15:21	27°♌19'00 -4°47'55		desc. node		5769 Jul 14 12:31	11°♌45'55
minimum elong	5768 Aug 15 07:59	27°♌29'32 4°46'36		evening set		5769 Jul 17 00:37	11°♌33'49
morning rise	5768 Aug 24 03:37	23°♌29'07		inferior conj		5769 Jul 26 08:39	7°♌35'39 -3°23'17
direct	5768 Aug 27 05:25	23°♌07'15		minimum elong		5769 Jul 26 00:01	7°♌47'46 3°20'38
morning max el	5768 Sep 07 11:08	28°♌21'38 20°56'13		min. Earth dist.		5769 Jul 26 17:27	7°♌23'17 0.54769 AU
	5768 Sep 09 02:40	0°♎		morning rise		5769 Aug 03 23:58	3°♌40'01
asc. node	5768 Sep 17 14:43	11°♎42'14		direct		5769 Aug 07 14:17	3°♌12'12
morning set	5768 Sep 26 23:14	29°♎31'44		morning max el		5769 Aug 20 07:48	9°♌14'46 22°32'54
	5768 Sep 27 04:42	0°♏		asc. node		5769 Sep 04 11:45	0°♎35'46
						5769 Sep 04 03:58	0°♎
superior conj	5768 Oct 04 08:57	14°♏56'06 1°42'43		morning set		5769 Sep 11 09:49	14°♎22'12
minimum elong	5768 Oct 04 09:26	14°♏58'32 1°42'43					
max. Earth dist.	5768 Oct 09 01:17	24°♏21'41 1.35687 AU		superior conj		5769 Sep 18 12:00	29°♎29'40 1°41'36
	5768 Oct 11 23:19	0°♐		minimum elong		5769 Sep 18 11:11	29°♎25'17 1°41'34
evening rise	5768 Oct 13 02:49	2°♐09'31				5769 Sep 18 17:43	0°♏
desc. node	5768 Oct 23 14:48	20°♐29'57		max. Earth dist.		5769 Sep 21 18:11	6°♏19'54 1.34097 AU
	5768 Oct 29 16:50	0°♑		evening rise		5769 Sep 26 10:08	15°♏43'50
evening max el	5768 Nov 17 15:18	23°♑56'25 26°22'50				5769 Oct 04 02:56	0°♐
	5768 Nov 25 19:07	0°♒		desc. node		5769 Oct 10 11:49	10°♐36'59
retrograde	5768 Nov 30 10:44	1°♒08'38				5769 Oct 24 06:53	0°♑
	5768 Dec 04 17:12	30°♋♑		evening max el		5769 Oct 31 04:06	7°♑30'44 27°07'57
evening set	5768 Dec 06 19:23	28°♑33'42		retrograde		5769 Nov 13 12:02	14°♑48'47
min. Earth dist.	5768 Dec 10 23:13	24°♑14'01 0.66457 AU		evening set		5769 Nov 20 07:54	12°♑09'24
inferior conj	5768 Dec 12 14:34	22°♑14'29 -0°40'19		min. Earth dist.		5769 Nov 24 05:32	8°♑24'52 0.65175 AU
minimum elong	5768 Dec 12 15:40	22°♑11'08 0°39'50		inferior conj		5769 Nov 26 08:44	6°♑01'46 -1°42'44
asc. node	5768 Dec 14 13:57	19°♑54'48		minimum elong		5769 Nov 26 11:44	5°♑53'24 1°41'29
morning rise	5768 Dec 18 12:35	16°♑28'21		asc. node		5769 Dec 01 10:58	1°♑10'55
direct	5768 Dec 21 13:04	15°♑36'48		morning rise		5769 Dec 02 16:40	0°♑28'33
morning max el	5768 Dec 28 04:37	19°♑14'12 18°35'42				5769 Dec 04 00:43	30°♋♐
	5769 Jan 05 12:17	0°♓		direct		5769 Dec 05 08:50	29°♐50'22
morning set	5769 Jan 17 21:02	19°♓16'55				5769 Dec 06 17:05	0°♑
desc. node	5769 Jan 19 14:02	21°♓59'08		morning max el		5769 Dec 11 19:57	3°♑16'52 18°04'12
	5769 Jan 24 15:55	0°♈		morning set		5769 Dec 29 21:32	0°♓15'00
						5769 Dec 29 17:54	0°♓
superior conj	5769 Feb 02 23:44	14°♈38'17 -1°29'59		desc. node		5770 Jan 06 11:04	12°♓37'27
minimum elong	5769 Feb 02 14:16	14°♈01'11 1°29'00					
max. Earth dist.	5769 Feb 02 20:01	14°♈23'44 1.45338 AU		superior conj		5770 Jan 13 06:37	23°♓32'10 -0°46'28
	5769 Feb 12 18:07	0°♉		minimum elong		5770 Jan 13 00:56	23°♓09'41 0°45'40
evening rise	5769 Feb 18 16:14	9°♉23'55		max. Earth dist.		5770 Jan 16 15:50	28°♓52'44 1.45192 AU
greatest brilliancy	5769 Feb 27 04:44	22°♉57'31 -0.8m				5770 Jan 17 08:57	0°♈
	5769 Mar 03 17:47	0°♊		evening rise		5770 Jan 29 13:03	18°♈56'32
evening max el	5769 Mar 12 11:43	11°♊33'21 18°52'56				5770 Feb 05 17:18	0°♉
asc. node	5769 Mar 12 13:12	11°♊37'06		greatest brilliancy		5770 Feb 11 21:23	9°♉20'59 -0.7m
retrograde	5769 Mar 19 05:39	15°♊19'36		evening max el		5770 Feb 23 18:09	25°♉06'30 19°41'25
evening set	5769 Mar 22 13:08	14°♊16'19		asc. node		5770 Feb 27 10:13	28°♉10'09
inferior conj	5769 Mar 28 03:31	8°♊33'45 3°29'15		retrograde		5770 Mar 03 03:12	29°♉21'54
minimum elong	5769 Mar 28 02:49	8°♊35'56 3°29'13		evening set		5770 Mar 06 18:22	28°♉04'38
min. Earth dist.	5769 Mar 29 20:43	6°♊25'17 0.65698 AU		inferior conj		5770 Mar 12 04:28	22°♉06'59 3°15'57
morning rise	5769 Apr 02 16:04	2°♊19'08		minimum elong		5770 Mar 12 02:45	22°♉12'41 3°15'43
	5769 Apr 06 09:19	30°♋♉		min. Earth dist.		5770 Mar 13 06:49	20°♉39'37 0.66933 AU
direct	5769 Apr 09 04:29	29°♉29'58		morning rise		5770 Mar 17 10:54	15°♉51'40

direct	5770 Mar 23 12:03	13° $\text{H}$ 09'49		morning rise	5771 Mar 01 13:21	29° $\approx$ 37'08	
desc. node	5770 Apr 04 10:19	20° $\text{H}$ 11'35		direct	5771 Mar 07 00:51	27° $\approx$ 11'11	
morning max el	5770 Apr 04 16:05	20° $\text{H}$ 26'07	25°30'18		5771 Mar 13 19:27	0° $\text{H}$	
	5770 Apr 12 21:23	0° $\text{Y}$		morning max el	5771 Mar 18 00:51	3° $\text{H}$ 45'31	24°03'46
	5770 May 03 01:14	0° $\text{B}$		desc. node	5771 Mar 22 07:21	8° $\text{H}$ 27'56	
morning set	5770 May 10 20:27	13° $\text{B}$ 34'43			5771 Apr 07 02:57	0° $\text{Y}$	
max. Earth dist.	5770 May 14 13:44	20° $\text{B}$ 28'08	1.36112 AU	morning set	5771 Apr 22 16:21	25° $\text{Y}$ 01'32	
	5770 May 19 11:54	0° $\text{II}$			5771 Apr 25 12:39	0° $\text{B}$	
				max. Earth dist.	5771 Apr 26 09:59	1° $\text{B}$ 34'51	1.38192 AU
superior conj	5770 May 20 11:15	1° $\text{II}$ 56'02	-0°57'38				
minimum elong	5770 May 20 14:31	2° $\text{II}$ 12'19	0°57'05	superior conj	5771 May 03 14:30	14° $\text{B}$ 51'11	-1°26'43
asc. node	5770 May 26 09:29	13° $\text{II}$ 57'34		minimum elong	5771 May 03 19:15	15° $\text{B}$ 13'52	1°26'04
evening rise	5770 May 28 13:34	18° $\text{II}$ 23'15			5771 May 11 09:00	0° $\text{II}$	
	5770 Jun 03 11:34	0° $\text{B}$		evening rise	5771 May 12 12:39	2° $\text{II}$ 16'11	
evening max el	5770 Jun 15 03:29	17° $\text{B}$ 03'39	19°55'05	asc. node	5771 May 13 06:31	3° $\text{II}$ 43'52	
retrograde	5770 Jun 25 09:11	22° $\text{B}$ 04'42		evening max el	5771 May 28 23:45	28° $\text{II}$ 57'44	18°59'00
evening set	5770 Jun 27 06:47	21° $\text{B}$ 55'05			5771 May 30 02:55	0° $\text{B}$	
desc. node	5770 Jul 01 09:33	20° $\text{B}$ 35'35		retrograde	5771 Jun 06 14:26	3° $\text{B}$ 11'14	
inferior conj	5770 Jul 06 05:59	17° $\text{B}$ 54'20	-1°27'25	evening set	5771 Jun 08 14:58	2° $\text{B}$ 58'12	
minimum elong	5770 Jul 06 01:55	18° $\text{B}$ 00'31	1°25'55		5771 Jun 14 22:53	30° $\text{R}$ $\text{II}$	
min. Earth dist.	5770 Jul 08 05:40	16° $\text{B}$ 41'54	0.55251 AU	inferior conj	5771 Jun 16 19:50	28° $\text{II}$ 43'08	0°25'35
morning rise	5770 Jul 14 19:12	13° $\text{B}$ 32'22		minimum elong	5771 Jun 16 20:52	28° $\text{II}$ 41'20	0°25'12
direct	5770 Jul 19 03:07	12° $\text{B}$ 51'17		desc. node	5771 Jun 18 06:35	27° $\text{II}$ 41'59	
morning max el	5770 Aug 01 22:05	19° $\text{B}$ 39'36	24°17'20	min. Earth dist.	5771 Jun 19 21:17	26° $\text{II}$ 35'14	0.56608 AU
	5770 Aug 10 15:34	0° $\text{Q}$		morning rise	5771 Jun 24 23:26	23° $\text{II}$ 44'58	
asc. node	5770 Aug 22 08:46	19° $\text{Q}$ 56'48		direct	5771 Jun 30 05:30	22° $\text{II}$ 39'27	
morning set	5770 Aug 26 21:31	29° $\text{Q}$ 14'36			5771 Jul 14 11:19	0° $\text{B}$	
	5770 Aug 27 06:04	0° $\text{M}$		morning max el	5771 Jul 14 12:21	0° $\text{B}$ 02'29	25°54'18
					5771 Aug 04 08:29	0° $\text{Q}$	
superior conj	5770 Sep 02 20:04	14° $\text{M}$ 16'39	1°34'21	asc. node	5771 Aug 09 05:49	9° $\text{Q}$ 37'57	
minimum elong	5770 Sep 02 18:19	14° $\text{M}$ 07'09	1°34'11	morning set	5771 Aug 11 08:46	14° $\text{Q}$ 04'14	
max. Earth dist.	5770 Sep 04 19:24	18° $\text{M}$ 32'40	1.32924 AU				
evening rise	5770 Sep 10 04:31	29° $\text{M}$ 48'41		superior conj	5771 Aug 18 07:00	29° $\text{Q}$ 10'14	1°21'46
	5770 Sep 10 06:44	0° $\text{L}$		minimum elong	5771 Aug 18 04:46	28° $\text{Q}$ 57'57	1°21'28
desc. node	5770 Sep 27 08:50	0° $\text{M}$ 17'47			5771 Aug 18 16:02	0° $\text{M}$	
	5770 Sep 27 04:09	0° $\text{M}$		max. Earth dist.	5771 Aug 19 03:08	1° $\text{M}$ 01'03	1.32188 AU
evening max el	5770 Oct 13 15:21	20° $\text{M}$ 43'01	27°27'16	evening rise	5771 Aug 25 06:50	14° $\text{M}$ 15'29	
retrograde	5770 Oct 27 07:11	28° $\text{M}$ 00'31			5771 Sep 02 07:41	0° $\text{L}$	
evening set	5770 Nov 03 10:03	25° $\text{M}$ 25'25		desc. node	5771 Sep 14 05:52	19° $\text{L}$ 21'43	
min. Earth dist.	5770 Nov 07 02:43	22° $\text{M}$ 13'18	0.63554 AU		5771 Sep 22 16:07	0° $\text{M}$	
inferior conj	5770 Nov 09 17:45	19° $\text{M}$ 34'20	-2°47'25	evening max el	5771 Sep 25 23:00	3° $\text{M}$ 21'22	27°15'17
minimum elong	5770 Nov 09 22:41	19° $\text{M}$ 21'50	2°45'34	retrograde	5771 Oct 09 19:21	10° $\text{M}$ 34'28	
morning rise	5770 Nov 16 12:56	14° $\text{M}$ 17'08		evening set	5771 Oct 16 22:13	8° $\text{M}$ 15'10	
asc. node	5770 Nov 18 08:01	13° $\text{M}$ 50'33		min. Earth dist.	5771 Oct 20 13:38	5° $\text{M}$ 28'02	0.61656 AU
direct	5770 Nov 18 23:10	13° $\text{M}$ 48'36		inferior conj	5771 Oct 23 14:33	2° $\text{M}$ 44'53	-3°50'19
morning max el	5770 Nov 25 12:59	17° $\text{M}$ 13'25	17°49'56	minimum elong	5771 Oct 23 20:54	2° $\text{M}$ 30'39	3°48'25
	5770 Dec 04 17:02	0° $\text{X}$			5771 Oct 26 20:59	30° $\text{R}$ $\text{L}$	
morning set	5770 Dec 12 00:24	12° $\text{X}$ 29'18		morning rise	5771 Oct 30 21:33	27° $\text{L}$ 46'45	
	5770 Dec 22 07:17	0° $\text{B}$		direct	5771 Nov 02 04:46	27° $\text{L}$ 24'20	
				asc. node	5771 Nov 05 05:04	28° $\text{L}$ 04'14	
superior conj	5770 Dec 24 09:10	3° $\text{B}$ 26'08	-0°00'19		5771 Nov 08 04:11	0° $\text{M}$	
minimum elong	5770 Dec 24 09:09	3° $\text{B}$ 26'02	0°00'18	morning max el	5771 Nov 09 04:31	0° $\text{M}$ 55'52	17°53'48
behind sun begin	5770 Dec 23 23:32	2° $\text{B}$ 46'30		morning set	5771 Nov 24 23:08	25° $\text{M}$ 40'03	
behind sun end	5770 Dec 24 18:45	4° $\text{B}$ 05'29			5771 Nov 27 08:25	0° $\text{X}$	
desc. node	5770 Dec 24 08:05	3° $\text{B}$ 21'40					
max. Earth dist.	5770 Dec 30 09:46	13° $\text{B}$ 11'20	1.44324 AU	superior conj	5771 Dec 05 13:59	14° $\text{X}$ 36'15	0°39'37
evening rise	5771 Jan 08 23:34	28° $\text{B}$ 10'28		minimum elong	5771 Dec 05 17:12	14° $\text{X}$ 50'10	0°39'10
	5771 Jan 10 04:06	0° $\approx$		desc. node	5771 Dec 11 05:08	24° $\text{X}$ 08'26	
	5771 Jan 30 14:56	0° $\text{H}$		max. Earth dist.	5771 Dec 12 23:36	27° $\text{X}$ 03'36	1.42846 AU
evening max el	5771 Feb 06 19:16	8° $\text{H}$ 41'04	20°44'13		5771 Dec 14 18:55	0° $\text{B}$	
asc. node	5771 Feb 14 07:15	13° $\text{H}$ 30'05		evening rise	5771 Dec 19 15:30	7° $\text{B}$ 44'47	
retrograde	5771 Feb 15 01:33	13° $\text{H}$ 33'11			5772 Jan 03 09:46	0° $\approx$	
evening set	5771 Feb 19 01:45	12° $\text{H}$ 01'18		evening max el	5772 Jan 20 15:05	22° $\approx$ 17'26	21°57'46
inferior conj	5771 Feb 24 09:55	5° $\text{H}$ 51'14	2°51'45	retrograde	5772 Jan 29 22:47	27° $\approx$ 49'38	
minimum elong	5771 Feb 24 07:39	5° $\text{H}$ 59'03	2°51'14	asc. node	5772 Feb 01 04:18	27° $\approx$ 23'24	
min. Earth dist.	5771 Feb 24 22:50	5° $\text{H}$ 06'51	0.67737 AU	evening set	5772 Feb 03 09:33	26° $\approx$ 02'28	
	5771 Mar 01 03:34	30° $\text{R}$ $\approx$		inferior conj	5772 Feb 08 17:40	19° $\approx$ 43'04	2°18'22

minimum elong	5772 Feb 08 15:19	19° $\approx$ 51'16	2°17'39		5773 Jan 25 20:59	30° $\approx$ 33'09	
min. Earth dist.	5772 Feb 08 18:23	19° $\approx$ 40'35	0.68131 AU	morning rise	5773 Jan 28 07:25	27° $\approx$ 33'09	
morning rise	5772 Feb 13 20:54	13° $\approx$ 31'53		direct	5773 Feb 01 14:19	25° $\approx$ 35'02	
direct	5772 Feb 18 18:00	11° $\approx$ 26'53			5773 Feb 09 07:33	0° $\approx$	
morning max el	5772 Feb 28 11:04	17° $\approx$ 10'52	22°34'26	morning max el	5773 Feb 10 02:34	0° $\approx$ 46'15	21°10'55
desc. node	5772 Mar 08 04:24	27° $\approx$ 31'35		desc. node	5773 Feb 23 01:25	17° $\approx$ 09'26	
	5772 Mar 10 00:51	0° $\approx$			5773 Mar 03 19:49	0° $\approx$	
	5772 Mar 30 04:59	0° $\approx$		morning set	5773 Mar 12 23:20	14° $\approx$ 03'51	
morning set	5772 Apr 02 09:49	5° $\approx$ 11'15		max. Earth dist.	5773 Mar 20 08:28	25° $\approx$ 54'05	1.42462 AU
max. Earth dist.	5772 Apr 07 05:58	13° $\approx$ 16'01	1.40408 AU		5773 Mar 22 20:06	0° $\approx$	
superior conj	5772 Apr 15 01:17	26° $\approx$ 57'11	-1°51'22	superior conj	5773 Mar 27 14:45	8° $\approx$ 03'24	-2°06'59
minimum elong	5772 Apr 15 06:21	27° $\approx$ 20'07	1°50'56	minimum elong	5773 Mar 27 17:33	8° $\approx$ 15'23	2°06'54
	5772 Apr 16 17:30	0° $\approx$		evening rise	5773 Apr 08 01:23	28° $\approx$ 16'02	
evening rise	5772 Apr 25 01:54	15° $\approx$ 36'36			5773 Apr 09 00:27	0° $\approx$	
asc. node	5772 Apr 29 03:34	23° $\approx$ 13'38		asc. node	5773 Apr 16 00:37	12° $\approx$ 21'26	
	5772 May 02 22:51	0° $\approx$		evening max el	5773 Apr 24 15:55	24° $\approx$ 25'15	18°07'13
evening max el	5772 May 11 05:06	11° $\approx$ 27'50	18°23'12	retrograde	5773 May 01 08:05	27° $\approx$ 49'22	
retrograde	5772 May 18 14:31	15° $\approx$ 08'19		evening set	5773 May 03 22:34	27° $\approx$ 18'30	
evening set	5772 May 20 22:02	14° $\approx$ 47'43		inferior conj	5773 May 10 14:39	22° $\approx$ 22'37	2°50'22
inferior conj	5772 May 28 07:04	10° $\approx$ 12'36	1°53'16	minimum elong	5773 May 10 17:40	22° $\approx$ 15'24	2°49'42
minimum elong	5772 May 28 10:21	10° $\approx$ 05'52	1°52'14	min. Earth dist.	5773 May 13 20:18	19° $\approx$ 19'06	0.60785 AU
min. Earth dist.	5772 May 31 17:23	7° $\approx$ 25'06	0.58573 AU	morning rise	5773 May 17 10:33	16° $\approx$ 28'54	
desc. node	5772 Jun 04 03:37	5° $\approx$ 03'51		desc. node	5773 May 22 00:39	14° $\approx$ 30'29	
morning rise	5772 Jun 04 19:32	4° $\approx$ 41'52		direct	5773 May 24 02:07	14° $\approx$ 18'06	
direct	5772 Jun 10 21:57	3° $\approx$ 03'44		morning max el	5773 Jun 07 08:47	22° $\approx$ 14'31	27°47'57
morning max el	5772 Jun 25 07:14	10° $\approx$ 48'12	27°08'14		5773 Jun 14 04:33	0° $\approx$	
	5772 Jul 10 03:50	0° $\approx$			5773 Jul 03 06:12	0° $\approx$	
morning set	5772 Jul 25 17:52	28° $\approx$ 44'51		morning set	5773 Jul 09 23:01	13° $\approx$ 11'16	
asc. node	5772 Jul 26 02:51	29° $\approx$ 32'12		asc. node	5773 Jul 12 23:54	19° $\approx$ 34'50	
	5772 Jul 26 08:07	0° $\approx$		max. Earth dist.	5773 Jul 16 00:19	26° $\approx$ 07'24	1.31999 AU
superior conj	5772 Aug 01 18:50	14° $\approx$ 02'59	1°04'27	superior conj	5773 Jul 17 05:50	28° $\approx$ 49'26	0°42'56
minimum elong	5772 Aug 01 16:36	13° $\approx$ 50'35	1°04'03	minimum elong	5773 Jul 17 04:04	28° $\approx$ 39'40	0°42'33
max. Earth dist.	5772 Aug 01 14:00	13° $\approx$ 36'10	1.31880 AU		5773 Jul 17 18:40	0° $\approx$	
evening rise	5772 Aug 08 14:23	28° $\approx$ 55'08		evening rise	5773 Jul 24 01:02	13° $\approx$ 40'57	
	5772 Aug 09 02:40	0° $\approx$			5773 Aug 01 04:48	0° $\approx$	
	5772 Aug 25 15:54	0° $\approx$		desc. node	5773 Aug 17 23:54	24° $\approx$ 31'32	
desc. node	5772 Aug 31 02:53	7° $\approx$ 33'18		evening max el	5773 Aug 19 18:03	26° $\approx$ 17'21	25°14'05
evening max el	5772 Sep 07 00:25	15° $\approx$ 14'15	26°29'44		5773 Aug 24 06:15	0° $\approx$	
retrograde	5772 Sep 20 22:57	22° $\approx$ 22'07		retrograde	5773 Sep 02 16:08	3° $\approx$ 19'59	
evening set	5772 Sep 27 15:45	20° $\approx$ 30'38		evening set	5773 Sep 08 09:54	2° $\approx$ 04'30	
min. Earth dist.	5772 Oct 01 14:03	17° $\approx$ 55'32	0.59593 AU		5773 Sep 12 06:57	30° $\approx$	
inferior conj	5772 Oct 04 19:39	15° $\approx$ 24'02	-4°44'20	min. Earth dist.	5773 Sep 13 05:37	29° $\approx$ 23'42	0.57578 AU
minimum elong	5772 Oct 05 01:41	15° $\approx$ 12'13	4°43'10	inferior conj	5773 Sep 16 05:43	27° $\approx$ 21'42	-5°17'35
morning rise	5772 Oct 12 13:45	10° $\approx$ 47'50		minimum elong	5773 Sep 16 08:15	27° $\approx$ 17'23	5°17'25
direct	5772 Oct 14 21:34	10° $\approx$ 28'28		morning rise	5773 Sep 24 08:52	23° $\approx$ 08'37	
asc. node	5772 Oct 22 02:07	13° $\approx$ 44'37		direct	5773 Sep 26 21:11	22° $\approx$ 49'52	
morning max el	5772 Oct 22 15:13	14° $\approx$ 15'13	18°17'14	morning max el	5773 Oct 05 17:36	27° $\approx$ 01'40	19°01'51
	5772 Nov 02 09:41	0° $\approx$			5773 Oct 08 11:14	0° $\approx$	
morning set	5772 Nov 07 12:00	9° $\approx$ 30'40		asc. node	5773 Oct 08 23:11	0° $\approx$ 37'11	
				morning set	5773 Oct 22 10:33	23° $\approx$ 48'17	
superior conj	5772 Nov 16 18:47	26° $\approx$ 55'42	1°09'38		5773 Oct 25 13:37	0° $\approx$	
minimum elong	5772 Nov 16 22:35	27° $\approx$ 12'58	1°09'13	superior conj	5773 Oct 30 18:23	10° $\approx$ 09'47	1°29'29
	5772 Nov 18 11:30	0° $\approx$		minimum elong	5773 Oct 30 21:13	10° $\approx$ 23'22	1°29'16
max. Earth dist.	5772 Nov 24 08:48	10° $\approx$ 18'53	1.40934 AU	max. Earth dist.	5773 Nov 06 14:30	22° $\approx$ 52'40	1.38817 AU
desc. node	5772 Nov 27 02:09	14° $\approx$ 54'18		evening rise	5773 Nov 10 10:10	29° $\approx$ 35'50	
evening rise	5772 Nov 29 01:31	18° $\approx$ 09'49			5773 Nov 10 15:47	0° $\approx$	
	5772 Dec 06 12:25	0° $\approx$		desc. node	5773 Nov 13 23:09	5° $\approx$ 35'21	
	5772 Dec 27 22:40	0° $\approx$			5773 Nov 29 21:38	0° $\approx$	
evening max el	5773 Jan 02 06:47	5° $\approx$ 57'01	23°17'06	evening max el	5773 Dec 15 20:02	19° $\approx$ 39'37	24°36'04
retrograde	5773 Jan 12 17:19	12° $\approx$ 07'36		retrograde	5773 Dec 27 08:05	26° $\approx$ 22'25	
evening set	5773 Jan 17 16:11	10° $\approx$ 04'54		evening set	5774 Jan 01 20:05	24° $\approx$ 04'51	
asc. node	5773 Jan 18 01:21	9° $\approx$ 44'54		asc. node	5774 Jan 04 22:24	20° $\approx$ 47'41	
min. Earth dist.	5773 Jan 22 15:09	4° $\approx$ 16'27	0.68133 AU	min. Earth dist.	5774 Jan 06 10:48	18° $\approx$ 50'27	0.67765 AU
inferior conj	5773 Jan 23 01:49	3° $\approx$ 39'48	1°37'01	inferior conj	5774 Jan 07 08:32	17° $\approx$ 38'07	0°48'30
minimum elong	5773 Jan 22 23:50	3° $\approx$ 46'37	1°36'18				

minimum elong	5774 Jan 07 07:23	17°  41'55	0°48'04	transit middle	5774 Dec 22 12:10	1°  35'02	0°06'12
morning rise	5774 Jan 12 18:50	11°  37'50		transit begin	5774 Dec 22 09:34	1°  43'18	
direct	5774 Jan 16 12:34	10°  31'44		transit end	5774 Dec 22 14:47	1°  26'47	
morning max el	5774 Jan 24 01:48	14°  33'37	19°58'50	asc. node	5774 Dec 22 19:26	1°  12'07	
	5774 Feb 05 01:27	0°  ≈			5774 Dec 23 18:41	30°  R 	
desc. node	5774 Feb 09 22:25	7°  ≈11'35		morning rise	5774 Dec 28 05:12	25°  R  43'37	
morning set	5774 Feb 19 20:13	22°  ≈16'02		direct	5774 Dec 31 11:20	24°  R  42'50	
	5774 Feb 24 19:45	0°  ✕		morning max el	5775 Jan 07 08:49	28°  R  31'11	19°01'23
max. Earth dist.	5774 Mar 02 18:33	9°  ✕23'36	1.44082 AU		5775 Jan 08 18:25	0°  ✕	
				desc. node	5775 Jan 27 19:26	27°  ✕31'39	
superior conj	5774 Mar 08 02:56	18°  ✕01'11	-2°07'51		5775 Jan 29 09:34	0°  ≈	
minimum elong	5774 Mar 08 00:07	17°  ✕49'39	2°07'47	morning set	5775 Jan 30 00:54	0°  ≈59'40	
	5774 Mar 15 08:27	0°  Y		max. Earth dist.	5775 Feb 13 10:07	23°  ≈28'12	1.45084 AU
evening rise	5774 Mar 21 06:32	10°  Y04'20					
	5774 Apr 02 05:41	0°  8		superior conj	5775 Feb 15 16:02	27°  ≈00'32	-1°49'21
asc. node	5774 Apr 02 21:38	0°  859'27		minimum elong	5775 Feb 15 07:25	26°  ≈26'32	1°48'40
evening max el	5774 Apr 08 04:48	7°  840'32	18°10'33		5775 Feb 17 13:26	0°  ✕	
retrograde	5774 Apr 14 14:39	11°  803'22		evening rise	5775 Mar 02 13:26	20°  ✕55'13	
evening set	5774 Apr 17 11:34	10°  820'46			5775 Mar 08 02:44	0°  Y	
inferior conj	5774 Apr 23 14:44	5°  805'26	3°20'58	asc. node	5775 Mar 20 18:40	18°  Y58'24	
minimum elong	5774 Apr 23 16:22	5°  801'01	3°20'46	evening max el	5775 Mar 22 16:54	21°  Y06'32	18°32'25
min. Earth dist.	5774 Apr 26 08:06	2°  809'43	0.62925 AU	retrograde	5775 Mar 29 05:41	24°  Y41'08	
	5774 Apr 28 13:50	30°  R  Y		evening set	5775 Apr 01 09:05	23°  Y45'47	
morning rise	5774 Apr 29 19:51	28°  Y58'23		inferior conj	5775 Apr 07 03:11	18°  Y12'45	3°30'55
direct	5774 May 06 15:52	26°  Y22'38		minimum elong	5775 Apr 07 03:15	18°  Y12'31	3°30'55
desc. node	5774 May 08 21:40	26°  Y37'53		min. Earth dist.	5775 Apr 09 05:24	15°  Y43'15	0.64793 AU
	5774 May 15 15:39	0°  8		morning rise	5775 Apr 12 20:44	11°  Y59'25	
morning max el	5774 May 20 15:52	4°  823'32	27°49'47	direct	5775 Apr 19 13:38	9°  Y11'05	
	5774 Jun 08 20:21	0°  II		desc. node	5775 Apr 25 18:41	11°  Y08'33	
morning set	5774 Jun 23 22:04	27°  II17'18		morning max el	5775 May 03 01:40	17°  Y06'02	27°16'20
	5774 Jun 25 06:07	0°  ☾			5775 May 13 19:10	0°  8	
max. Earth dist.	5774 Jun 29 06:06	8°  ☾22'17	1.32553 AU		5775 Jun 01 16:44	0°  II	
asc. node	5774 Jun 29 20:55	9°  ☾41'35		morning set	5775 Jun 07 12:15	10°  II54'08	
				max. Earth dist.	5775 Jun 12 03:18	20°  II09'14	1.33569 AU
superior conj	5774 Jul 01 14:13	13°  ☾24'14	0°17'47				
minimum elong	5774 Jul 01 13:23	13°  ☾19'42	0°17'35	superior conj	5775 Jun 15 17:57	27°  II40'48	-0°10'18
evening rise	5774 Jul 08 12:50	28°  ☾26'52		minimum elong	5775 Jun 15 18:29	27°  II43'39	0°10'13
	5774 Jul 09 06:23	0°  Ω		behind sun begin	5775 Jun 15 14:12	27°  II20'58	
	5774 Jul 26 09:11	0°  ൬		behind sun end	5775 Jun 15 22:47	28°  II06'21	
evening max el	5774 Aug 01 06:25	6°  ൬43'56	23°39'42	asc. node	5775 Jun 16 17:55	29°  II47'50	
desc. node	5774 Aug 04 20:54	9°  ൬48'24			5775 Jun 16 20:13	0°  ☾	
retrograde	5774 Aug 14 21:36	13°  ൬34'34		evening rise	5775 Jun 22 23:51	13°  ☾06'14	
evening set	5774 Aug 19 04:33	12°  ൬54'07			5775 Jul 01 14:14	0°  Ω	
min. Earth dist.	5774 Aug 25 16:20	9°  ൬49'30	0.55908 AU	evening max el	5775 Jul 13 21:12	17°  Ω05'02	22°02'38
inferior conj	5774 Aug 27 19:34	8°  ൬32'47	-5°13'22	desc. node	5775 Jul 22 17:56	22°  Ω49'27	
minimum elong	5774 Aug 27 15:37	8°  ൬38'43	5°13'01	retrograde	5775 Jul 26 15:21	23°  Ω24'54	
morning rise	5774 Sep 05 05:09	4°  ൬38'16		evening set	5775 Jul 29 11:31	19°  Ω06'56	
direct	5774 Sep 08 01:06	4°  ൬18'18		min. Earth dist.	5775 Aug 07 02:10	19°  Ω24'37	0.54921 AU
morning max el	5774 Sep 18 08:51	9°  ൬06'39	20°08'30	inferior conj	5775 Aug 07 17:22	19°  Ω03'17	-4°17'46
asc. node	5774 Sep 25 20:12	18°  ൬26'58		minimum elong	5775 Aug 07 08:35	19°  Ω15'37	4°15'40
	5774 Oct 02 10:18	0°  ♌		morning rise	5775 Aug 16 07:15	15°  Ω13'21	
morning set	5774 Oct 06 15:37	8°  ♌24'02		direct	5775 Aug 19 13:35	14°  Ω49'43	
				morning max el	5775 Aug 31 11:49	20°  Ω24'51	21°35'40
superior conj	5774 Oct 14 07:45	24°  ♌04'15	1°40'12		5775 Sep 08 09:38	0°  ൬	
minimum elong	5774 Oct 14 09:05	24°  ♌10'59	1°40'09	asc. node	5775 Sep 12 17:13	7°  ൬00'04	
	5774 Oct 17 07:29	0°  ♌		morning set	5775 Sep 21 00:43	23°  ൬10'11	
max. Earth dist.	5774 Oct 19 20:27	4°  ♌54'00	1.36754 AU		5775 Sep 24 06:38	0°  ♌	
evening rise	5774 Oct 23 16:05	12°  ♌00'00					
desc. node	5774 Oct 31 20:10	26°  ♌07'41		superior conj	5775 Sep 28 06:44	8°  ♌26'01	1°43'03
	5774 Nov 03 05:32	0°  ♌		minimum elong	5775 Sep 28 06:37	8°  ♌25'25	1°43'03
	5774 Nov 25 02:12	0°  ♌		max. Earth dist.	5775 Oct 02 08:04	16°  ♌45'23	1.34957 AU
evening max el	5774 Nov 28 08:35	3°  ♌23'50	25°47'42	evening rise	5775 Oct 06 15:21	25°  ♌11'39	
retrograde	5774 Dec 10 18:16	10°  ♌29'11			5775 Oct 09 04:50	0°  ♌	
evening set	5774 Dec 16 19:37	7°  ♌59'12		desc. node	5775 Oct 18 17:12	16°  ♌25'26	
min. Earth dist.	5774 Dec 21 03:08	3°  ♌19'26	0.67037 AU		5775 Oct 27 17:16	0°  ♌	
inferior conj	5774 Dec 22 12:00	1°  ♌35'33	-0°06'18	evening max el	5775 Nov 10 21:25	17°  ♌04'12	26°44'45
minimum elong	5774 Dec 22 12:10	1°  ♌35'02	0°06'12	retrograde	5775 Nov 23 23:11	24°  ♌20'46	

evening set	5775 Nov 30 12:49	21°♊43'01		5776 Oct 22 21:08	0°♊	
min. Earth dist.	5775 Dec 04 13:52	17°♊38'18	0.65949 AU	evening max el	5776 Oct 23 09:58	0°♊30'56 27°19'48
inferior conj	5775 Dec 06 10:14	15°♊27'47	-1°06'22	retrograde	5776 Nov 05 21:58	7°♊49'10
minimum elong	5775 Dec 06 12:06	15°♊22'16	1°05'32	evening set	5776 Nov 12 21:18	5°♊10'45
asc. node	5775 Dec 09 16:27	11°♊53'59		min. Earth dist.	5776 Nov 16 16:42	1°♊40'11 0.64520 AU
morning rise	5775 Dec 12 12:17	9°♊46'44			5776 Nov 18 06:10	30°♋
direct	5775 Dec 15 08:50	9°♊01'28		inferior conj	5776 Nov 19 00:52	29°♋09'27 -2°10'06
morning max el	5775 Dec 21 21:49	12°♊33'26	18°20'12	minimum elong	5776 Nov 19 04:42	28°♋59'08 2°08'33
	5776 Jan 03 10:08	0°♋		morning rise	5776 Nov 25 13:25	23°♋42'19
morning set	5776 Jan 10 08:12	11°♋06'09		asc. node	5776 Nov 25 13:30	23°♋42'14
desc. node	5776 Jan 14 16:28	18°♋04'26		direct	5776 Nov 28 02:44	23°♋08'40
	5776 Jan 22 04:44	0°♌		morning max el	5776 Dec 04 14:10	26°♋33'37 17°55'56
					5776 Dec 07 13:46	0°♌
superior conj	5776 Jan 25 19:25	5°♌40'53	-1°12'36	morning set	5776 Dec 21 20:42	22°♌39'00
minimum elong	5776 Jan 25 10:55	5°♌07'32	1°11'34		5776 Dec 26 06:00	0°♍
max. Earth dist.	5776 Jan 27 04:55	7°♌52'15	1.45365 AU	desc. node	5776 Dec 31 13:30	8°♍45'22
	5776 Feb 10 08:09	0°♎				
evening rise	5776 Feb 10 21:20	0°♎51'45		superior conj	5777 Jan 04 09:01	14°♍55'40 -0°26'34
greatest brilliancy	5776 Feb 21 16:29	17°♎43'57	-0.8m	minimum elong	5777 Jan 04 05:51	14°♍42'59 0°26'06
	5776 Mar 01 03:19	0°♏		max. Earth dist.	5777 Jan 09 00:17	22°♍18'46 1.44907 AU
evening max el	5776 Mar 05 02:00	4°♏38'45	19°11'41		5777 Jan 13 21:51	0°♐
asc. node	5776 Mar 06 15:41	6°♏07'06		evening rise	5777 Jan 20 12:02	10°♐12'00
retrograde	5776 Mar 12 01:37	8°♏36'17			5777 Feb 02 13:31	0°♑
evening set	5776 Mar 15 12:11	7°♏27'19		greatest brilliancy	5777 Feb 04 04:36	2°♑24'00 -0.6m
inferior conj	5776 Mar 21 00:27	1°♏38'19	3°25'04	evening max el	5777 Feb 16 06:23	18°♑13'09 20°06'37
minimum elong	5776 Mar 20 23:16	1°♏42'08	3°24'58	asc. node	5777 Feb 21 12:43	22°♑11'07
	5776 Mar 22 07:02	30°♒		retrograde	5777 Feb 23 23:40	22°♑42'58
min. Earth dist.	5776 Mar 22 11:18	29°♒46'26	0.66276 AU	evening set	5777 Feb 27 18:34	21°♒19'33
morning rise	5776 Mar 26 09:59	25°♒23'02		inferior conj	5777 Mar 05 03:37	15°♒16'32 3°06'53
direct	5776 Apr 01 18:07	22°♒35'20		minimum elong	5777 Mar 05 01:36	15°♒23'19 3°06'32
desc. node	5776 Apr 11 15:43	27°♒29'41		min. Earth dist.	5777 Mar 06 00:06	14°♒07'23 0.67332 AU
	5776 Apr 14 07:37	0°♓		morning rise	5777 Mar 10 08:25	9°♒01'44
morning max el	5776 Apr 14 11:36	0°♓10'03	26°14'44	direct	5777 Mar 16 04:06	6°♒25'39
	5776 May 06 17:37	0°♈		morning max el	5777 Mar 27 20:29	13°♒42'55 24°54'25
morning set	5776 May 20 13:58	23°♈51'30		desc. node	5777 Mar 29 12:46	15°♒10'35
	5776 May 23 19:33	0°♉			5777 Apr 10 06:51	0°♓
max. Earth dist.	5776 May 24 13:19	1°♉26'14	1.35059 AU		5777 Apr 29 13:02	0°♈
				morning set	5777 May 02 22:21	5°♈55'07
superior conj	5776 May 29 14:41	11°♉32'43	-0°40'12	max. Earth dist.	5777 May 06 13:12	12°♈28'13 1.36972 AU
minimum elong	5776 May 29 16:56	11°♉44'09	0°39'47			
asc. node	5776 Jun 02 14:57	19°♉49'55		superior conj	5777 May 13 01:22	24°♈51'03 -1°10'17
evening rise	5776 Jun 06 08:09	27°♉33'16		minimum elong	5777 May 13 05:21	25°♈10'30 1°09'38
	5776 Jun 07 12:44	0°♊			5777 May 15 15:54	0°♉
evening max el	5776 Jun 24 22:07	27°♊53'14	20°36'33	asc. node	5777 May 20 11:59	9°♉43'04
	5776 Jun 27 07:49	0°♋		evening rise	5777 May 21 11:22	11°♉40'32
retrograde	5776 Jul 06 03:38	3°♋24'03			5777 May 31 07:58	0°♊
evening set	5776 Jul 08 04:30	3°♋13'56		evening max el	5777 Jun 07 11:38	9°♊22'25 19°28'40
desc. node	5776 Jul 08 14:56	3°♋09'15		retrograde	5777 Jun 16 23:34	14°♊01'27
	5776 Jul 16 04:26	30°♌		evening set	5777 Jun 18 21:42	13°♊50'51
inferior conj	5776 Jul 17 10:35	29°♌16'58	-2°35'59	desc. node	5777 Jun 25 11:58	11°♌02'59
minimum elong	5776 Jul 17 03:27	29°♌27'13	2°33'31	inferior conj	5777 Jun 27 13:43	9°♌44'59 -0°37'20
min. Earth dist.	5776 Jul 18 13:11	28°♌38'46	0.54859 AU	minimum elong	5777 Jun 27 12:03	9°♌47'39 0°36'42
morning rise	5776 Jul 26 01:48	25°♌11'58		min. Earth dist.	5777 Jun 30 02:23	8°♌07'57 0.55742 AU
direct	5776 Jul 29 23:06	24°♌39'26		morning rise	5777 Jul 05 23:48	5°♌08'25
	5776 Aug 11 00:56	0°♍		direct	5777 Jul 10 17:11	4°♌18'12
morning max el	5776 Aug 12 04:57	1°♍02'56	23°17'05	morning max el	5777 Jul 24 18:13	11°♌22'05 25°00'29
asc. node	5776 Aug 29 14:15	26°♍06'05			5777 Aug 07 23:17	0°♎
	5776 Aug 31 14:18	0°♎		asc. node	5777 Aug 16 11:18	15°♎36'21
morning set	5776 Sep 04 11:58	8°♎01'33		morning set	5777 Aug 19 23:42	22°♎53'12
					5777 Aug 23 06:51	0°♏
superior conj	5776 Sep 11 12:12	23°♏05'47	1°39'13			
minimum elong	5776 Sep 11 10:56	22°♏58'59	1°39'08	superior conj	5777 Aug 26 21:44	7°♏56'00 1°29'37
max. Earth dist.	5776 Sep 14 04:33	28°♏48'23	1.33549 AU	minimum elong	5777 Aug 26 19:43	7°♏45'01 1°29'24
	5776 Sep 14 18:11	0°♐		max. Earth dist.	5777 Aug 28 09:07	11°♏09'11 1.32561 AU
evening rise	5776 Sep 19 03:50	9°♐00'04		evening rise	5777 Sep 03 01:57	23°♏15'12
	5776 Sep 30 15:33	0°♑			5777 Sep 06 10:41	0°♐
desc. node	5776 Oct 04 14:13	6°♑21'57		desc. node	5777 Sep 21 11:14	25°♐48'31

































































































































	5777 Sep 24 09:21	0°♌		evening max el	5778 Sep 18 01:24	25°♎50'39	26°59'57
evening max el	5777 Oct 05 20:14	13°♌31'07	27°26'19		5778 Sep 23 05:08	0°♌	
retrograde	5777 Oct 19 14:02	20°♌46'04		retrograde	5778 Oct 01 22:35	3°♌01'31	
evening set	5777 Oct 26 18:01	18°♌16'26		evening set	5778 Oct 08 22:52	0°♌52'19	
min. Earth dist.	5777 Oct 30 09:38	15°♌16'08	0.62776 AU		5778 Oct 10 07:07	30°♊♎	
inferior conj	5777 Nov 02 05:09	12°♌34'02	-3°14'37	min. Earth dist.	5778 Oct 12 15:42	28°♎12'40	0.60788 AU
minimum elong	5777 Nov 02 10:49	12°♌20'25	3°12'41	inferior conj	5778 Oct 15 19:42	25°♎32'12	-4°14'54
morning rise	5777 Nov 09 05:20	7°♌24'22		minimum elong	5778 Oct 16 02:13	25°♎18'24	4°13'13
direct	5777 Nov 11 14:01	6°♌58'42		morning rise	5778 Oct 23 07:37	20°♎43'24	
asc. node	5777 Nov 12 10:34	7°♌02'09		direct	5778 Oct 25 14:42	20°♎22'35	
morning max el	5777 Nov 18 06:57	10°♌25'09	17°49'19	asc. node	5778 Oct 30 07:37	21°♎54'16	
	5777 Dec 01 08:16	0°♊		morning max el	5778 Nov 01 20:54	23°♎59'06	18°01'22
morning set	5777 Dec 04 08:53	5°♊20'15			5778 Nov 06 17:27	0°♌	
				morning set	5778 Nov 17 14:14	18°♌49'33	
					5778 Nov 23 15:49	0°♊	
superior conj	5777 Dec 15 22:38	25°♊21'54	0°17'42	superior conj	5778 Nov 27 14:14	7°♊03'20	0°53'36
minimum elong	5777 Dec 16 00:21	25°♊29'08	0°17'28	minimum elong	5778 Nov 27 17:57	7°♊19'47	0°53'08
desc. node	5777 Dec 18 10:32	29°♊31'09		max. Earth dist.	5778 Dec 05 05:24	20°♊08'55	1.42070 AU
	5777 Dec 18 17:31	0°♊		desc. node	5778 Dec 05 07:32	20°♊17'47	
max. Earth dist.	5777 Dec 22 17:20	6°♊30'28	1.43763 AU	evening rise	5778 Dec 10 21:31	29°♊23'25	
evening rise	5777 Dec 30 23:04	19°♊30'41			5778 Dec 11 06:42	0°♊	
	5778 Jan 06 20:05	0°♊			5778 Dec 31 10:42	0°♊	
	5778 Jan 28 12:39	0°♊		evening max el	5779 Jan 12 22:59	15°♊25'37	22°31'03
evening max el	5778 Jan 30 05:16	1°♊48'48	21°14'23	retrograde	5779 Jan 22 18:07	21°♊15'01	
retrograde	5778 Feb 07 21:45	6°♊57'26		asc. node	5779 Jan 26 06:51	20°♊10'13	
asc. node	5778 Feb 08 09:47	6°♊56'05		evening set	5779 Jan 27 09:52	19°♊21'02	
evening set	5778 Feb 12 02:22	5°♊18'52		inferior conj	5779 Feb 01 18:26	12°♊58'28	2°01'46
	5778 Feb 16 18:11	30°♊♎		minimum elong	5779 Feb 01 16:11	13°♊06'18	2°01'01
inferior conj	5778 Feb 17 10:18	29°♊04'25	2°38'39	min. Earth dist.	5779 Feb 01 14:10	13°♊13'20	0.68176 AU
minimum elong	5778 Feb 17 07:56	29°♊12'36	2°38'01	morning rise	5779 Feb 06 22:23	6°♊49'04	
min. Earth dist.	5778 Feb 17 17:49	28°♊38'23	0.67959 AU	direct	5779 Feb 11 13:14	4°♊54'01	
morning rise	5778 Feb 22 13:21	22°♊51'36		morning max el	5779 Feb 20 17:46	10°♊16'49	21°57'51
direct	5778 Feb 27 18:45	20°♊34'20		desc. node	5779 Mar 03 06:50	23°♊08'24	
morning max el	5778 Mar 10 05:32	26°♊47'02	23°25'37		5779 Mar 08 04:18	0°♊	
	5778 Mar 13 05:09	0°♊		morning set	5779 Mar 25 12:59	26°♊26'38	
desc. node	5778 Mar 16 09:49	3°♊49'00			5779 Mar 27 17:43	0°♊	
	5778 Apr 03 21:27	0°♊		max. Earth dist.	5779 Mar 31 07:17	5°♊53'01	1.41314 AU
morning set	5778 Apr 14 07:39	16°♊50'32					
max. Earth dist.	5778 Apr 18 08:57	23°♊48'14	1.39145 AU	superior conj	5779 Apr 08 00:31	19°♊08'34	-1°59'25
	5778 Apr 21 20:45	0°♊		minimum elong	5779 Apr 08 05:02	19°♊28'30	1°59'08
					5779 Apr 14 01:11	0°♊	
superior conj	5778 Apr 25 22:13	7°♊26'40	-1°37'57	evening rise	5779 Apr 18 14:42	8°♊25'42	
minimum elong	5778 Apr 26 03:19	7°♊50'31	1°37'21	asc. node	5779 Apr 24 06:04	18°♊44'44	
evening rise	5778 May 05 06:44	25°♊20'59			5779 May 01 05:51	0°♊	
asc. node	5778 May 07 09:01	29°♊23'03		evening max el	5779 May 04 20:12	4°♊15'33	18°13'59
	5778 May 07 16:45	0°♊		retrograde	5779 May 11 21:06	7°♊47'27	
evening max el	5778 May 21 12:07	21°♊32'19	18°41'10	evening set	5779 May 14 07:28	7°♊22'54	
retrograde	5778 May 29 12:57	25°♊30'06		inferior conj	5779 May 21 08:51	2°♊38'58	2°21'03
evening set	5778 May 31 16:16	25°♊14'14		minimum elong	5779 May 21 12:15	2°♊31'30	2°20'07
inferior conj	5778 Jun 08 12:30	20°♊50'31	1°06'34		5779 May 24 09:35	30°♊♎	
minimum elong	5778 Jun 08 14:52	20°♊46'05	1°05'43	min. Earth dist.	5779 May 24 18:30	29°♊41'21	0.59497 AU
min. Earth dist.	5778 Jun 11 19:29	18°♊23'26	0.57393 AU	morning rise	5779 May 28 14:10	26°♊56'46	
desc. node	5778 Jun 12 09:01	17°♊59'38		desc. node	5779 May 30 06:03	26°♊05'54	
morning rise	5778 Jun 16 10:06	15°♊37'28		direct	5779 Jun 03 23:04	25°♊04'12	
direct	5778 Jun 22 01:12	14°♊19'02			5779 Jun 15 02:21	0°♊	
morning max el	5778 Jul 06 10:09	21°♊52'07	26°29'31	morning max el	5779 Jun 18 08:08	2°♊55'39	27°29'43
	5778 Jul 13 13:36	0°♊			5779 Jul 08 01:35	0°♊	
	5778 Jul 31 16:55	0°♊		morning set	5779 Jul 19 17:55	22°♊15'51	
asc. node	5778 Aug 03 08:19	5°♊23'42		asc. node	5779 Jul 21 05:21	25°♊22'34	
morning set	5778 Aug 04 10:14	7°♊39'44			5779 Jul 23 08:56	0°♊	
				max. Earth dist.	5779 Jul 26 05:49	6°♊17'33	1.31873 AU
superior conj	5778 Aug 11 09:15	22°♊49'43	1°14'57				
minimum elong	5778 Aug 11 06:57	22°♊37'03	1°14'36	superior conj	5779 Jul 26 20:58	7°♊41'10	0°55'49
max. Earth dist.	5778 Aug 11 18:45	23°♊42'17	1.32003 AU	minimum elong	5779 Jul 26 18:52	7°♊29'33	0°55'25
	5778 Aug 14 15:29	0°♊		evening rise	5779 Aug 02 15:54	22°♊31'30	
evening rise	5778 Aug 18 06:46	7°♊48'05			5779 Aug 06 06:20	0°♊	
	5778 Aug 29 21:18	0°♊					
desc. node	5778 Sep 08 08:16	14°♊32'25					



	5779 Aug 24 08:58	0°♄		evening max el	5780 Aug 11 14:08	18°♄06'44	24°35'22
desc. node	5779 Aug 26 05:16	2°♄16'17		desc. node	5780 Aug 12 02:18	18°♄35'29	
evening max el	5779 Aug 30 23:18	7°♄21'35	26°00'43	retrograde	5780 Aug 25 10:53	25°♄05'44	
retrograde	5779 Sep 13 22:21	14°♄28'23		evening set	5780 Aug 30 14:33	24°♄06'21	
evening set	5779 Sep 20 06:58	12°♄51'22		min. Earth dist.	5780 Sep 05 01:20	21°♄17'03	0.56806 AU
min. Earth dist.	5779 Sep 24 12:01	10°♄16'10	0.58712 AU	inferior conj	5780 Sep 07 18:22	19°♄32'51	-5°21'26
inferior conj	5779 Sep 27 17:00	7°♄54'42	-5°01'56	minimum elong	5780 Sep 07 18:22	19°♄32'53	5°21'26
minimum elong	5779 Sep 27 22:00	7°♄45'27	5°01'12	morning rise	5780 Sep 16 00:31	15°♄28'20	
morning rise	5779 Oct 05 15:20	3°♄28'42		direct	5780 Sep 18 15:36	15°♄09'21	
direct	5779 Oct 08 00:25	3°♄10'01		morning max el	5780 Sep 28 02:27	19°♄35'51	19°27'27
morning max el	5779 Oct 16 04:32	7°♄06'10	18°33'33	asc. node	5780 Oct 03 01:39	25°♄25'47	
asc. node	5779 Oct 17 04:39	8°♄07'18			5780 Oct 06 02:05	0°♄	
	5779 Oct 30 19:48	0°♄		morning set	5780 Oct 15 09:16	17°♄18'40	
morning set	5779 Nov 01 07:37	2°♄52'33			5780 Oct 21 17:01	0°♄	
superior conj	5779 Nov 10 03:41	19°♄47'53	1°19'15	superior conj	5780 Oct 23 09:40	3°♄20'27	1°35'04
minimum elong	5779 Nov 10 07:11	20°♄04'11	1°18'53	minimum elong	5780 Oct 23 11:53	3°♄31'20	1°34'55
	5779 Nov 15 18:19	0°♄		max. Earth dist.	5780 Oct 29 17:04	15°♄20'24	1.37922 AU
max. Earth dist.	5779 Nov 17 12:09	3°♄03'42	1.40040 AU	evening rise	5780 Nov 02 11:06	22°♄05'50	
evening rise	5779 Nov 21 16:59	10°♄13'48			5780 Nov 07 01:30	0°♄	
desc. node	5779 Nov 22 04:32	11°♄01'56		desc. node	5780 Nov 08 01:32	1°♄39'58	
	5779 Dec 04 05:12	0°♄			5780 Nov 27 02:40	0°♄	
evening max el	5779 Dec 26 13:14	29°♄05'43	23°51'09	evening max el	5780 Dec 08 02:10	12°♄50'09	25°07'59
	5779 Dec 27 11:33	0°♄		retrograde	5780 Dec 20 00:10	19°♄43'44	
retrograde	5780 Jan 06 11:16	5°♄31'47		evening set	5780 Dec 25 17:46	17°♄20'49	
evening set	5780 Jan 11 15:31	3°♄22'40		min. Earth dist.	5780 Dec 30 05:26	12°♄20'49	0.67495 AU
asc. node	5780 Jan 13 03:54	1°♄54'52		asc. node	5780 Dec 30 00:55	12°♄35'23	
	5780 Jan 14 18:56	30°♄		inferior conj	5780 Dec 31 07:46	10°♄54'49	0°25'59
min. Earth dist.	5780 Jan 16 10:49	27°♄48'23	0.68016 AU	minimum elong	5780 Dec 31 07:07	10°♄56'55	0°25'45
inferior conj	5780 Jan 17 02:11	26°♄56'06	1°17'15	morning rise	5781 Jan 05 20:43	4°♄57'33	
minimum elong	5780 Jan 17 00:30	27°♄01'49	1°16'38	direct	5781 Jan 09 09:20	3°♄45'55	
morning rise	5780 Jan 22 09:29	20°♄51'41		morning max el	5781 Jan 16 14:54	7°♄48'42	19°32'27
direct	5780 Jan 26 10:32	19°♄19'14		greatest brilliancy	5781 Jan 29 15:12	24°♄59'41	-0.7m
morning max el	5780 Feb 03 12:20	23°♄56'52	20°38'32		5781 Feb 01 23:17	0°♄	
	5780 Feb 08 18:34	0°♄		desc. node	5781 Feb 04 00:50	3°♄08'03	
desc. node	5780 Feb 18 03:50	12°♄57'21		morning set	5781 Feb 10 13:58	13°♄10'42	
	5780 Feb 29 12:47	0°♄			5781 Feb 21 09:00	0°♄	
morning set	5780 Mar 03 16:56	4°♄54'09		max. Earth dist.	5781 Feb 23 01:03	2°♄38'12	1.44591 AU
max. Earth dist.	5780 Mar 12 12:20	18°♄51'26	1.43209 AU	superior conj	5781 Feb 27 05:05	9°♄16'41	-2°02'31
superior conj	5780 Mar 19 03:28	29°♄45'44	-2°09'30	minimum elong	5781 Feb 26 23:26	8°♄54'01	2°02'14
minimum elong	5780 Mar 19 04:14	29°♄48'57	2°09'30		5781 Mar 11 20:20	0°♄	
	5780 Mar 19 06:52	0°♄		evening rise	5781 Mar 13 02:57	2°♄08'20	
evening rise	5780 Mar 31 06:54	20°♄44'05		asc. node	5781 Mar 28 00:09	26°♄03'57	
	5780 Apr 05 13:20	0°♄			5781 Mar 31 04:44	0°♄	
asc. node	5780 Apr 10 03:06	7°♄40'58		evening max el	5781 Mar 31 21:17	0°♄43'03	18°17'41
evening max el	5780 Apr 17 08:19	17°♄21'47	18°06'24	retrograde	5781 Apr 07 07:09	4°♄08'59	
retrograde	5780 Apr 23 20:36	20°♄43'32		evening set	5781 Apr 10 06:53	3°♄20'56	
evening set	5780 Apr 26 13:50	20°♄07'54			5781 Apr 14 09:15	30°♄	
inferior conj	5780 May 02 23:57	15°♄03'55	3°06'11	inferior conj	5781 Apr 16 05:46	27°♄58'00	3°27'21
minimum elong	5780 May 03 02:27	14°♄57'36	3°05'45	minimum elong	5781 Apr 16 06:44	27°♄55'17	3°27'17
min. Earth dist.	5780 May 06 01:10	12°♄00'45	0.61715 AU	min. Earth dist.	5781 Apr 18 16:52	25°♄11'42	0.63766 AU
morning rise	5780 May 09 13:14	9°♄03'32		morning rise	5781 Apr 22 05:35	21°♄47'54	
direct	5780 May 16 07:52	6°♄40'24		direct	5781 Apr 29 01:16	19°♄05'09	
desc. node	5780 May 16 03:05	6°♄40'31		desc. node	5781 May 03 00:06	19°♄52'44	
morning max el	5780 May 30 12:09	14°♄40'20	27°53'16	morning max el	5781 May 12 20:30	27°♄04'14	27°39'28
	5780 Jun 11 21:45	0°♄			5781 May 15 14:37	0°♄	
	5780 Jun 29 13:51	0°♄		morning set	5781 Jun 05 13:42	0°♄	
morning set	5780 Jul 02 20:45	6°♄34'32			5781 Jun 16 16:22	20°♄28'59	
asc. node	5780 Jul 07 02:21	15°♄27'31		max. Earth dist.	5781 Jun 21 08:11	0°♄	
max. Earth dist.	5780 Jul 08 14:28	18°♄42'23	1.32178 AU	asc. node	5781 Jun 21 16:59	0°♄46'08	1.32934 AU
					5781 Jun 23 23:22	5°♄34'35	
superior conj	5780 Jul 10 07:04	22°♄23'39	0°32'42	superior conj	5781 Jun 24 13:45	6°♄51'36	0°06'13
minimum elong	5780 Jul 10 05:38	22°♄15'47	0°32'22	minimum elong	5781 Jun 24 13:26	6°♄49'57	0°06'06
	5780 Jul 13 18:19	0°♄		behind sun begin	5781 Jun 24 08:28	6°♄23'15	
evening rise	5780 Jul 17 03:14	7°♄18'08		behind sun end	5781 Jun 24 18:25	7°♄16'41	
	5780 Jul 28 22:18	0°♄					

evening rise	5781 Jul 01 14:56	22°☿02'10		minimum elong	5782 Jun 08 16:03	21°♊04'56	0°22'36
	5781 Jul 05 11:18	0°♊		asc. node	5782 Jun 10 20:25	25°♊39'47	
evening max el	5781 Jul 24 02:36	28°♊27'04	22°57'46		5782 Jun 12 21:39	0°♊	
	5781 Jul 25 19:10	0°♊		evening rise	5782 Jun 16 01:05	6°♊37'24	
desc. node	5781 Jul 29 23:20	2°♊58'56			5782 Jun 28 16:37	0°♊	
retrograde	5781 Aug 06 10:30	5°♊06'20		evening max el	5782 Jul 05 20:56	8°♊56'33	21°24'04
evening set	5781 Aug 10 01:47	4°♊37'26		desc. node	5782 Jul 16 20:21	14°♊54'00	
min. Earth dist.	5781 Aug 17 11:10	1°♊18'34	0.55396 AU	retrograde	5782 Jul 18 00:47	14°♊57'21	
inferior conj	5781 Aug 19 00:26	0°♊24'51	-4°56'20	evening set	5782 Jul 20 10:36	14°♊44'00	
minimum elong	5781 Aug 18 17:50	0°♊34'23	4°55'19	inferior conj	5782 Jul 29 18:34	10°♊44'44	-3°38'57
	5781 Aug 19 17:42	30°♊♊		minimum elong	5782 Jul 29 09:40	10°♊57'12	3°36'20
morning rise	5781 Aug 27 12:03	26°♊34'20		min. Earth dist.	5782 Jul 29 21:00	10°♊41'19	0.54776 AU
direct	5781 Aug 30 12:21	26°♊12'59		morning rise	5782 Aug 07 09:38	6°♊51'22	
	5781 Sep 08 23:14	0°♊		direct	5782 Aug 10 21:41	6°♊24'53	
morning max el	5781 Sep 10 12:14	1°♊20'12	20°43'16	morning max el	5782 Aug 23 10:32	12°♊20'13	22°17'42
asc. node	5781 Sep 19 22:40	13°♊35'20			5782 Sep 05 11:27	0°♊	
	5781 Sep 28 16:57	0°♊		asc. node	5782 Sep 06 19:42	2°♊24'05	
morning set	5781 Sep 29 16:19	1°♊59'41		morning set	5782 Sep 14 02:37	16°♊49'40	
					5782 Sep 20 07:14	0°♊	
superior conj	5781 Oct 07 03:31	17°♊27'32	1°42'17	superior conj	5782 Sep 21 05:39	1°♊58'49	1°42'11
minimum elong	5781 Oct 07 04:13	17°♊31'06	1°42'16	minimum elong	5782 Sep 21 05:00	1°♊55'23	1°42'10
max. Earth dist.	5781 Oct 12 01:15	27°♊16'14	1.35952 AU	max. Earth dist.	5782 Sep 24 16:46	9°♊12'32	1.34307 AU
	5781 Oct 13 11:08	0°♊		evening rise	5782 Sep 29 06:18	18°♊20'32	
evening rise	5781 Oct 16 00:54	4°♊51'27			5782 Oct 05 12:36	0°♊	
desc. node	5781 Oct 25 22:33	22°♊06'56		desc. node	5782 Oct 12 19:36	12°♊17'14	
	5781 Oct 30 22:22	0°♊			5782 Oct 25 03:16	0°♊	
evening max el	5781 Nov 20 14:59	26°♊34'17	26°14'16	evening max el	5782 Nov 03 03:47	10°♊10'20	27°02'38
	5781 Nov 24 13:19	0°♊		retrograde	5782 Nov 16 10:16	17°♊28'24	
retrograde	5781 Dec 03 07:57	3°♊44'52		evening set	5782 Nov 23 04:39	14°♊49'05	
evening set	5781 Dec 09 14:49	1°♊11'01		min. Earth dist.	5782 Nov 27 03:05	10°♊59'27	0.65389 AU
	5781 Dec 10 22:06	30°♊♊		inferior conj	5782 Nov 29 04:34	8°♊39'16	-1°33'03
min. Earth dist.	5781 Dec 13 19:36	26°♊46'13	0.66619 AU	minimum elong	5782 Nov 29 07:16	8°♊31'38	1°31'55
inferior conj	5781 Dec 15 09:16	24°♊50'36	-0°31'12	asc. node	5782 Dec 03 18:58	4°♊05'52	
minimum elong	5781 Dec 15 10:06	24°♊48'00	0°30'48	morning rise	5782 Dec 05 10:56	3°♊04'03	
asc. node	5781 Dec 16 21:57	23°♊00'08		direct	5782 Dec 08 04:10	2°♊24'12	
morning rise	5781 Dec 21 05:59	19°♊02'56		morning max el	5782 Dec 14 15:33	5°♊51'46	18°07'48
direct	5781 Dec 24 07:54	18°♊09'04			5782 Dec 31 02:05	0°♊	
morning max el	5781 Dec 31 00:42	21°♊48'49	18°41'52	morning set	5783 Jan 02 00:48	3°♊11'32	
	5782 Jan 06 14:37	0°♊		desc. node	5783 Jan 08 18:53	14°♊11'04	
morning set	5782 Jan 21 04:43	22°♊26'40					
desc. node	5782 Jan 21 21:50	23°♊34'04		superior conj	5783 Jan 16 17:00	26°♊49'41	-0°53'29
	5782 Jan 25 23:57	0°♊		minimum elong	5783 Jan 16 10:29	26°♊23'55	0°52'37
superior conj	5782 Feb 06 11:40	18°♊01'00	-1°35'37		5783 Jan 18 17:18	0°♊	
minimum elong	5782 Feb 06 02:11	17°♊23'47	1°34'40	max. Earth dist.	5783 Jan 19 14:30	1°♊23'19	1.45262 AU
max. Earth dist.	5782 Feb 05 18:56	16°♊55'22	1.45299 AU	evening rise	5783 Feb 01 23:15	22°♊13'02	
	5782 Feb 14 02:15	0°♊			5783 Feb 06 23:52	0°♊	
evening rise	5782 Feb 21 23:50	12°♊35'01		greatest brilliancy	5783 Feb 14 16:59	11°♊47'34	-0.7m
greatest brilliancy	5782 Mar 01 13:40	24°♊43'26	-0.9m	evening max el	5783 Feb 26 15:30	27°♊44'47	19°33'13
	5782 Mar 04 22:00	0°♊			5783 Mar 01 03:50	0°♊	
asc. node	5782 Mar 14 21:11	13°♊42'59		asc. node	5783 Mar 01 18:14	0°♊25'51	
evening max el	5782 Mar 15 08:21	14°♊11'58	18°47'03	retrograde	5783 Mar 05 21:57	1°♊55'25	
retrograde	5782 Mar 22 00:42	17°♊54'55		evening set	5783 Mar 09 11:52	0°♊40'22	
evening set	5782 Mar 25 07:07	16°♊53'40			5783 Mar 10 08:39	30°♊♊	
inferior conj	5782 Mar 30 22:21	11°♊13'23	3°30'07	inferior conj	5783 Mar 14 22:27	24°♊44'51	3°18'44
minimum elong	5782 Mar 30 21:51	11°♊14'57	3°30'06	minimum elong	5783 Mar 14 20:52	24°♊50'05	3°18'31
min. Earth dist.	5782 Apr 01 17:50	8°♊59'17	0.65477 AU	min. Earth dist.	5783 Mar 16 02:58	23°♊10'57	0.66776 AU
morning rise	5782 Apr 05 12:06	4°♊58'59		morning rise	5783 Mar 20 05:35	18°♊29'20	
direct	5782 Apr 12 01:47	2°♊09'45		direct	5783 Mar 26 08:34	15°♊45'41	
desc. node	5782 Apr 19 21:08	5°♊14'14		desc. node	5783 Apr 06 18:10	22°♊12'23	
morning max el	5782 Apr 25 06:41	9°♊57'13	26°53'07	morning max el	5783 Apr 07 16:25	23°♊07'31	25°42'16
	5782 May 11 01:20	0°♊			5783 Apr 13 18:30	0°♊	
	5782 May 29 01:01	0°♊			5783 May 04 09:28	0°♊	
morning set	5782 May 31 01:46	3°♊50'19		morning set	5783 May 13 20:47	16°♊26'36	
max. Earth dist.	5782 Jun 04 09:52	12°♊21'01	1.34149 AU	max. Earth dist.	5783 May 17 15:22	23°♊29'19	1.35823 AU
					5783 May 21 00:01	0°♊	
superior conj	5782 Jun 08 14:50	20°♊58'31	-0°22'50				

superior conj	5783 May 23 07:40	4° $\Pi$ 36'48	-0°53'05		5784 Apr 25 22:44	0° $\mathcal{B}$	
minimum elong	5783 May 23 10:40	4° $\Pi$ 51'51	0°52'32	max. Earth dist.	5784 Apr 28 12:11	4° $\mathcal{B}$ 33'17	1.37871 AU
asc. node	5783 May 28 17:28	15° $\Pi$ 38'33					
evening rise	5783 May 31 07:32	20° $\Pi$ 56'48		superior conj	5784 May 05 13:00	17° $\mathcal{B}$ 38'34	-1°22'31
	5783 Jun 04 20:36	0° $\mathcal{E}$		minimum elong	5784 May 05 17:35	18° $\mathcal{B}$ 00'34	1°21'51
evening max el	5783 Jun 18 03:05	20° $\mathcal{E}$ 01'00	20°05'16		5784 May 11 20:31	0° $\Pi$	
retrograde	5783 Jun 28 15:08	25° $\mathcal{E}$ 09'53		evening rise	5784 May 14 07:49	4° $\Pi$ 53'50	
evening set	5783 Jun 30 13:01	25° $\mathcal{E}$ 00'23		asc. node	5784 May 14 14:32	5° $\Pi$ 26'59	
desc. node	5783 Jul 03 17:24	24° $\mathcal{E}$ 06'09			5784 May 29 04:55	0° $\mathcal{E}$	
inferior conj	5783 Jul 09 14:23	21° $\mathcal{E}$ 01'08	-1°45'38	evening max el	5784 May 30 21:42	1° $\mathcal{E}$ 48'48	19°06'01
minimum elong	5783 Jul 09 09:28	21° $\mathcal{E}$ 08'31	1°43'49	retrograde	5784 Jun 08 17:33	6° $\mathcal{E}$ 08'18	
min. Earth dist.	5783 Jul 11 08:58	19° $\mathcal{E}$ 57'30	0.55114 AU	evening set	5784 Jun 10 17:18	5° $\mathcal{E}$ 56'02	
morning rise	5783 Jul 18 04:19	16° $\mathcal{E}$ 43'56		inferior conj	5784 Jun 19 01:11	1° $\mathcal{E}$ 43'42	0°09'50
direct	5783 Jul 22 09:15	16° $\mathcal{E}$ 05'24		minimum elong	5784 Jun 19 01:35	1° $\mathcal{E}$ 43'00	0°09'39
morning max el	5783 Aug 05 01:25	22° $\mathcal{E}$ 47'56	24°01'49	transit middle	5784 Jun 19 01:35	1° $\mathcal{E}$ 43'00	0°09'39
	5783 Aug 11 11:09	0° $\mathcal{Q}$		transit begin	5784 Jun 18 22:33	1° $\mathcal{E}$ 48'12	
asc. node	5783 Aug 24 16:44	21° $\mathcal{Q}$ 41'29		transit end	5784 Jun 19 04:37	1° $\mathcal{E}$ 37'48	
	5783 Aug 28 18:55	0° $\mathcal{P}$		desc. node	5784 Jun 19 14:26	1° $\mathcal{E}$ 20'57	
morning set	5783 Aug 29 14:16	1° $\mathcal{P}$ 42'04			5784 Jun 21 13:53	30° $\mathcal{R}$ $\Pi$	
				min. Earth dist.	5784 Jun 21 23:56	29° $\Pi$ 43'19	0.56364 AU
superior conj	5783 Sep 05 13:09	16° $\mathcal{P}$ 44'25	1°35'48	morning rise	5784 Jun 27 06:39	26° $\Pi$ 51'07	
minimum elong	5783 Sep 05 11:31	16° $\mathcal{P}$ 35'33	1°35'41	direct	5784 Jul 02 09:33	25° $\Pi$ 49'46	
max. Earth dist.	5783 Sep 07 16:46	21° $\mathcal{P}$ 22'31	1.33071 AU		5784 Jul 12 23:20	0° $\mathcal{E}$	
	5783 Sep 11 19:26	0° $\mathcal{A}$		morning max el	5784 Jul 16 15:07	3° $\mathcal{E}$ 08'19	25°41'00
evening rise	5783 Sep 12 23:17	2° $\mathcal{A}$ 21'35			5784 Aug 04 17:29	0° $\mathcal{Q}$	
	5783 Sep 28 09:01	0° $\mathcal{M}$		asc. node	5784 Aug 10 13:48	11° $\mathcal{Q}$ 19'47	
desc. node	5783 Sep 29 16:38	2° $\mathcal{M}$ 02'33		morning set	5784 Aug 13 01:40	16° $\mathcal{Q}$ 31'59	
evening max el	5783 Oct 16 15:25	23° $\mathcal{M}$ 26'46	27°26'15		5784 Aug 19 06:09	0° $\mathcal{P}$	
	5783 Oct 26 06:06	0° $\mathcal{X}$					
retrograde	5783 Oct 30 06:30	0° $\mathcal{X}$ 44'49		superior conj	5784 Aug 19 23:45	1° $\mathcal{P}$ 36'59	1°23'59
	5783 Nov 03 02:06	30° $\mathcal{R}$ $\mathcal{M}$		minimum elong	5784 Aug 19 21:34	1° $\mathcal{P}$ 24'58	1°23'43
evening set	5783 Nov 06 08:34	28° $\mathcal{M}$ 08'30		max. Earth dist.	5784 Aug 20 23:41	3° $\mathcal{P}$ 48'26	1.32270 AU
min. Earth dist.	5783 Nov 10 01:52	24° $\mathcal{M}$ 51'43	0.63815 AU	evening rise	5784 Aug 27 00:34	16° $\mathcal{P}$ 45'22	
inferior conj	5783 Nov 12 15:09	22° $\mathcal{M}$ 14'29	-2°37'35		5784 Sep 02 17:34	0° $\mathcal{A}$	
minimum elong	5783 Nov 12 19:49	22° $\mathcal{M}$ 02'29	2°35'50	desc. node	5784 Sep 15 13:39	21° $\mathcal{A}$ 12'43	
morning rise	5783 Nov 19 08:36	16° $\mathcal{M}$ 54'36			5784 Sep 22 05:34	0° $\mathcal{M}$	
asc. node	5783 Nov 20 16:00	16° $\mathcal{M}$ 31'27		evening max el	5784 Sep 27 23:51	6° $\mathcal{M}$ 11'17	27°19'16
direct	5783 Nov 21 19:29	16° $\mathcal{M}$ 24'54		retrograde	5784 Oct 11 19:42	13° $\mathcal{M}$ 24'50	
morning max el	5783 Nov 28 08:31	19° $\mathcal{M}$ 49'38	17°50'53	evening set	5784 Oct 18 23:06	11° $\mathcal{M}$ 02'37	
	5783 Dec 05 22:31	0° $\mathcal{X}$		min. Earth dist.	5784 Oct 22 14:25	8° $\mathcal{M}$ 12'20	0.61951 AU
morning set	5783 Dec 15 00:09	15° $\mathcal{X}$ 15'44		inferior conj	5784 Oct 25 14:00	5° $\mathcal{M}$ 29'03	-3°41'10
	5783 Dec 23 16:38	0° $\mathcal{Z}$		minimum elong	5784 Oct 25 20:13	5° $\mathcal{M}$ 14'51	3°39'15
desc. node	5783 Dec 26 15:55	4° $\mathcal{Z}$ 54'40		morning rise	5784 Nov 01 19:15	0° $\mathcal{M}$ 27'44	
				direct	5784 Nov 04 02:43	0° $\mathcal{M}$ 04'35	
superior conj	5783 Dec 27 15:57	6° $\mathcal{Z}$ 33'01	-0°07'05	asc. node	5784 Nov 06 13:04	0° $\mathcal{M}$ 31'05	
minimum elong	5783 Dec 27 15:09	6° $\mathcal{Z}$ 29'47	0°06'57	morning max el	5784 Nov 11 00:28	3° $\mathcal{M}$ 34'37	17°51'58
behind sun begin	5783 Dec 27 06:13	5° $\mathcal{Z}$ 53'16		morning set	5784 Nov 26 20:21	28° $\mathcal{M}$ 19'29	
behind sun end	5783 Dec 28 00:06	7° $\mathcal{Z}$ 06'15			5784 Nov 27 18:38	0° $\mathcal{X}$	
max. Earth dist.	5784 Jan 02 08:42	15° $\mathcal{Z}$ 43'54	1.44494 AU				
	5784 Jan 11 11:37	0° $\mathcal{A}$		superior conj	5784 Dec 07 16:47	17° $\mathcal{X}$ 31'37	0°34'09
evening rise	5784 Jan 12 10:22	1° $\mathcal{A}$ 27'32		minimum elong	5784 Dec 07 19:43	17° $\mathcal{X}$ 44'08	0°33'46
	5784 Jan 31 15:35	0° $\mathcal{H}$		desc. node	5784 Dec 12 12:54	25° $\mathcal{X}$ 41'08	
evening max el	5784 Feb 09 17:30	11° $\mathcal{H}$ 19'47	20°34'06	max. Earth dist.	5784 Dec 14 23:23	29° $\mathcal{X}$ 41'38	1.43100 AU
asc. node	5784 Feb 16 15:16	15° $\mathcal{H}$ 58'14			5784 Dec 15 03:54	0° $\mathcal{Z}$	
retrograde	5784 Feb 17 20:20	16° $\mathcal{H}$ 06'02		evening rise	5784 Dec 22 00:31	10° $\mathcal{Z}$ 56'40	
evening set	5784 Feb 21 19:04	14° $\mathcal{H}$ 36'26			5785 Jan 03 14:46	0° $\mathcal{A}$	
inferior conj	5784 Feb 27 03:24	8° $\mathcal{H}$ 28'10	2°56'04	evening max el	5785 Jan 22 14:07	24° $\mathcal{A}$ 56'07	21°46'20
minimum elong	5784 Feb 27 01:11	8° $\mathcal{H}$ 35'45	2°55'34		5785 Jan 29 14:28	0° $\mathcal{H}$	
min. Earth dist.	5784 Feb 27 18:16	7° $\mathcal{H}$ 37'16	0.67645 AU	retrograde	5785 Jan 31 17:45	0° $\mathcal{H}$ 22'02	
morning rise	5784 Mar 03 07:05	2° $\mathcal{H}$ 13'46		asc. node	5785 Feb 02 12:19	0° $\mathcal{H}$ 05'23	
	5784 Mar 07 01:02	30° $\mathcal{R}$ $\mathcal{A}$			5785 Feb 02 18:36	30° $\mathcal{R}$ $\mathcal{A}$	
direct	5784 Mar 08 20:47	29° $\mathcal{A}$ 44'52		evening set	5785 Feb 05 02:53	28° $\mathcal{A}$ 37'08	
	5784 Mar 10 18:31	0° $\mathcal{H}$		inferior conj	5785 Feb 10 10:55	22° $\mathcal{A}$ 19'02	2°23'58
morning max el	5784 Mar 20 01:08	6° $\mathcal{H}$ 26'10	24°17'02	minimum elong	5785 Feb 10 08:32	22° $\mathcal{A}$ 27'17	2°23'17
desc. node	5784 Mar 23 15:13	10° $\mathcal{H}$ 20'27		min. Earth dist.	5785 Feb 10 13:23	22° $\mathcal{A}$ 10'27	0.68099 AU
	5784 Apr 07 08:02	0° $\mathcal{Y}$		morning rise	5785 Feb 15 14:01	16° $\mathcal{A}$ 07'25	
morning set	5784 Apr 24 20:08	28° $\mathcal{Y}$ 03'50		direct	5785 Feb 20 13:18	13° $\mathcal{A}$ 59'06	

morning max el	5785 Mar 02 10:50	19°  50'21	22°47'34	morning max el	5786 Feb 13 01:24	3°  24'22	21°22'42
desc. node	5785 Mar 10 12:13	29°  17'53		desc. node	5786 Feb 25 09:13	18°  51'09	
	5785 Mar 11 01:08	0°  ✕			5786 Mar 05 01:41	0°  ✕	
	5785 Mar 31 12:51	0°  Υ		morning set	5786 Mar 16 11:07	17°  ✕28'34	
morning set	5785 Apr 05 17:47	8°  Υ25'42		max. Earth dist.	5786 Mar 23 09:24	28°  ✕38'36	1.42180 AU
max. Earth dist.	5785 Apr 10 07:54	16°  Υ08'33	1.40087 AU		5786 Mar 24 05:08	0°  Υ	
superior conj	5785 Apr 18 02:32	29°  Υ52'53	-1°48'06	superior conj	5786 Mar 30 19:24	11°  Υ08'23	-2°05'25
minimum elong	5785 Apr 18 07:42	0°  ♄16'23	1°47'36	minimum elong	5786 Mar 30 22:46	11°  Υ22'55	2°05'18
	5785 Apr 18 04:06	0°  ♄			5786 Apr 10 09:58	0°  ♄	
evening rise	5785 Apr 27 22:45	18°  ♄19'51		evening rise	5786 Apr 11 00:31	1°  ♄06'03	
asc. node	5785 May 01 11:34	24°  ♄59'49		asc. node	5786 Apr 18 08:35	14°  ♄11'30	
	5785 May 04 05:23	0°  ♄		evening max el	5786 Apr 27 12:04	27°  ♄08'03	18°08'20
evening max el	5785 May 14 01:54	14°  ♄14'09	18°27'10		5786 May 01 13:11	0°  ♄	
retrograde	5785 May 21 14:50	17°  ♄58'28		retrograde	5786 May 04 06:09	0°  ♄33'46	
evening set	5785 May 23 21:18	17°  ♄39'08		evening set	5786 May 06 19:36	0°  ♄04'36	
inferior conj	5785 May 31 09:10	13°  ♄06'56	1°41'58		5786 May 07 00:21	30°  ♄	
minimum elong	5785 May 31 12:18	13°  ♄00'38	1°40'57	inferior conj	5786 May 13 13:56	25°  ♄11'39	2°43'30
min. Earth dist.	5785 Jun 03 19:05	10°  ♄24'04	0.58261 AU	minimum elong	5786 May 13 17:06	25°  ♄04'14	2°42'46
desc. node	5785 Jun 06 11:28	8°  ♄32'15		min. Earth dist.	5786 May 16 20:50	22°  ♄08'57	0.60451 AU
morning rise	5785 Jun 08 00:05	7°  ♄40'35		morning rise	5786 May 20 12:14	19°  ♄20'31	
direct	5785 Jun 13 23:51	6°  ♄07'39		desc. node	5786 May 24 08:29	17°  ♄36'04	
morning max el	5785 Jun 28 09:05	13°  ♄49'08	26°59'16	direct	5786 May 27 02:16	17°  ♄14'22	
	5785 Jul 11 06:18	0°  ♄		morning max el	5786 Jun 10 09:46	25°  ♄09'41	27°44'30
	5785 Jul 27 21:01	0°  ♄			5786 Jun 14 20:28	0°  ♄	
morning set	5785 Jul 28 11:11	1°  ♄14'16			5786 Jul 04 15:44	0°  ♄	
asc. node	5785 Jul 28 10:50	1°  ♄12'28		morning set	5786 Jul 12 17:01	15°  ♄43'31	
				asc. node	5786 Jul 15 07:51	21°  ♄14'21	
superior conj	5785 Aug 04 11:33	16°  ♄30'09	1°07'21	max. Earth dist.	5786 Jul 18 21:04	28°  ♄56'44	1.31951 AU
minimum elong	5785 Aug 04 09:17	16°  ♄17'36	1°06'58		5786 Jul 19 08:35	0°  ♄	
max. Earth dist.	5785 Aug 04 10:22	16°  ♄23'40	1.31896 AU				
	5785 Aug 10 15:44	0°  ♄		superior conj	5786 Jul 19 22:45	1°  ♄18'04	0°46'27
evening rise	5785 Aug 11 07:28	1°  ♄23'35		minimum elong	5786 Jul 19 20:53	1°  ♄07'44	0°46'03
	5785 Aug 26 18:24	0°  ♄		evening rise	5786 Jul 26 17:46	16°  ♄09'02	
desc. node	5785 Sep 02 10:40	9°  ♄33'37			5786 Aug 02 13:55	0°  ♄	
evening max el	5785 Sep 10 02:25	18°  ♄11'52	26°38'41	desc. node	5786 Aug 20 07:42	26°  ♄44'49	
retrograde	5785 Sep 24 00:34	25°  ♄20'15		evening max el	5786 Aug 22 21:02	29°  ♄21'40	25°26'54
evening set	5785 Sep 30 19:44	23°  ♄23'53			5786 Aug 23 13:26	0°  ♄	
min. Earth dist.	5785 Oct 04 16:13	20°  ♄48'14	0.59902 AU	retrograde	5786 Sep 05 19:25	6°  ♄25'38	
inferior conj	5785 Oct 07 21:41	18°  ♄13'55	-4°37'14	evening set	5786 Sep 11 17:34	5°  ♄04'23	
minimum elong	5785 Oct 08 03:56	18°  ♄01'24	4°35'53	min. Earth dist.	5786 Sep 16 08:47	2°  ♄25'45	0.57860 AU
morning rise	5785 Oct 15 14:14	13°  ♄34'20		inferior conj	5786 Sep 19 10:41	0°  ♄18'07	-5°14'37
direct	5785 Oct 17 21:46	13°  ♄14'38		minimum elong	5786 Sep 19 13:59	0°  ♄12'23	5°14'19
asc. node	5785 Oct 24 10:07	15°  ♄59'36			5786 Sep 19 21:08	30°  ♄	
morning max el	5785 Oct 25 12:06	16°  ♄58'24	18°12'28	morning rise	5786 Sep 27 12:41	26°  ♄01'55	
	5785 Nov 03 17:29	0°  ♄		direct	5786 Sep 30 00:03	25°  ♄43'16	
morning set	5785 Nov 10 07:26	12°  ♄05'40		morning max el	5786 Oct 08 15:57	29°  ♄50'30	18°53'53
					5786 Oct 08 19:54	0°  ♄	
superior conj	5785 Nov 19 18:22	29°  ♄42'17	1°05'45	asc. node	5786 Oct 11 07:07	2°  ♄42'12	
minimum elong	5785 Nov 19 22:12	29°  ♄59'35	1°05'17	morning set	5786 Oct 25 04:45	26°  ♄19'55	
	5785 Nov 19 22:18	0°  ♄			5786 Oct 27 01:28	0°  ♄	
max. Earth dist.	5785 Nov 27 09:37	13°  ♄04'45	1.41239 AU				
desc. node	5785 Nov 29 09:54	16°  ♄27'34		superior conj	5786 Nov 02 15:32	12°  ♄49'27	1°27'05
evening rise	5785 Dec 02 07:24	21°  ♄13'31		minimum elong	5786 Nov 02 18:33	13°  ♄03'52	1°26'49
	5785 Dec 07 19:47	0°  ♄		max. Earth dist.	5786 Nov 09 15:29	25°  ♄44'00	1.39133 AU
	5785 Dec 28 19:34	0°  ♄			5786 Nov 12 01:44	0°  ♄	
evening max el	5786 Jan 05 06:18	8°  ♄35'16	23°05'04	evening rise	5786 Nov 13 12:39	2°  ♄30'27	
retrograde	5786 Jan 15 12:45	14°  ♄40'19		desc. node	5786 Nov 16 06:55	7°  ♄09'46	
evening set	5786 Jan 20 09:47	12°  ♄39'46			5786 Dec 01 01:23	0°  ♄	
asc. node	5786 Jan 20 09:21	12°  ♄40'41		evening max el	5786 Dec 18 19:40	22°  ♄17'13	24°24'31
inferior conj	5786 Jan 25 19:06	6°  ♄15'13	1°43'45	retrograde	5786 Dec 30 04:12	28°  ♄56'08	
minimum elong	5786 Jan 25 17:02	6°  ♄22'21	1°43'02	evening set	5787 Jan 04 14:12	26°  ♄40'37	
min. Earth dist.	5786 Jan 25 10:03	6°  ♄46'26	0.68162 AU	asc. node	5787 Jan 07 06:23	23°  ♄53'46	
morning rise	5786 Jan 31 00:12	0°  ♄07'55		min. Earth dist.	5787 Jan 09 06:02	21°  ♄21'04	0.67845 AU
	5786 Jan 31 04:11	30°  ♄		inferior conj	5787 Jan 10 02:08	20°  ♄13'41	0°56'17
direct	5786 Feb 04 09:09	28°  ♄22'29		minimum elong	5787 Jan 10 00:51	20°  ♄18'02	0°55'48
	5786 Feb 09 00:15	0°  ♄		morning rise	5787 Jan 15 11:36	14°  ♄12'19	

































































































































direct	5787 Jan 19 07:09	12°♄49'11		transit end	5787 Dec 25 08:57	4°♄02'52	
morning max el	5787 Jan 26 23:29	17°♄10'20	20°08'38	asc. node	5787 Dec 25 03:25	4°♄20'33	
	5787 Feb 06 04:29	0°♄			5787 Dec 28 20:18	30°♄♂	
desc. node	5787 Feb 12 06:12	8°♄50'12		morning rise	5787 Dec 30 22:15	28°♄♂18'07	
morning set	5787 Feb 23 09:07	25°♄42'56		direct	5788 Jan 03 05:59	27°♄♂14'40	
	5787 Feb 26 03:27	0°♄			5788 Jan 09 00:56	0°♄	
max. Earth dist.	5787 Mar 05 18:09	12°♄00'28	1.43874 AU	morning max el	5788 Jan 10 05:23	1°♄06'34	19°08'56
				greatest brilliancy	5788 Jan 23 23:13	19°♄39'40	-0.7m
superior conj	5787 Mar 11 11:26	21°♄16'30	-2°08'54	desc. node	5788 Jan 30 03:13	29°♄07'59	
minimum elong	5787 Mar 11 09:37	21°♄09'01	2°08'52		5788 Jan 30 16:40	0°♄	
	5787 Mar 16 17:26	0°♄		morning set	5788 Feb 02 11:07	4°♄17'38	
evening rise	5787 Mar 24 08:41	13°♄02'49		max. Earth dist.	5788 Feb 16 08:55	26°♄00'37	1.44977 AU
	5787 Apr 03 08:35	0°♄			5788 Feb 18 21:35	0°♄	
asc. node	5787 Apr 05 05:37	2°♄54'55					
evening max el	5787 Apr 11 00:50	10°♄21'30	18°08'53	superior conj	5788 Feb 19 03:31	0°♄23'27	-1°53'28
retrograde	5787 Apr 17 11:07	13°♄43'47		minimum elong	5788 Feb 18 19:30	29°♄51'46	1°52'53
evening set	5787 Apr 20 07:01	13°♄03'05		evening rise	5788 Mar 04 19:05	24°♄02'31	
inferior conj	5787 Apr 26 11:52	7°♄50'40	3°17'44		5788 Mar 08 09:54	0°♄	
minimum elong	5787 Apr 26 13:44	7°♄45'41	3°17'30	asc. node	5788 Mar 22 02:39	21°♄00'45	
min. Earth dist.	5787 Apr 29 07:24	4°♄52'17	0.62615 AU	evening max el	5788 Mar 24 13:17	23°♄46'42	18°28'03
morning rise	5787 May 02 18:59	1°♄44'59		retrograde	5788 Mar 31 01:04	27°♄18'39	
	5787 May 05 18:34	30°♄♂		evening set	5788 Apr 03 03:29	26°♄25'15	
direct	5787 May 09 14:51	29°♄12'06		inferior conj	5788 Apr 08 22:44	20°♄54'56	3°30'30
desc. node	5787 May 11 05:30	29°♄19'57		minimum elong	5788 Apr 08 23:02	20°♄54'02	3°30'28
	5787 May 13 16:12	0°♄		min. Earth dist.	5788 Apr 11 03:19	18°♄20'31	0.64538 AU
morning max el	5787 May 23 16:13	7°♄13'23	27°51'52	morning rise	5788 Apr 14 17:48	14°♄42'16	
	5787 Jun 10 01:22	0°♄		direct	5788 Apr 21 11:39	11°♄54'51	
morning set	5787 Jun 26 17:09	29°♄53'36		desc. node	5788 Apr 27 02:32	13°♄31'13	
	5787 Jun 26 18:25	0°♄		morning max el	5788 May 05 01:44	19°♄51'29	27°23'15
max. Earth dist.	5787 Jul 02 03:43	11°♄15'02	1.32441 AU		5788 May 13 17:41	0°♄	
asc. node	5787 Jul 02 04:52	11°♄21'09			5788 Jun 02 02:11	0°♄	
				morning set	5788 Jun 09 08:51	13°♄35'25	
superior conj	5787 Jul 04 07:39	15°♄55'29	0°21'49	max. Earth dist.	5788 Jun 14 02:19	23°♄06'11	1.33389 AU
minimum elong	5787 Jul 04 06:39	15°♄49'59	0°21'34		5788 Jun 17 09:20	0°♄	
	5787 Jul 10 19:06	0°♄					
evening rise	5787 Jul 11 05:31	0°♄55'41		superior conj	5788 Jun 17 12:14	0°♄15'22	-0°05'54
	5787 Jul 27 04:57	0°♄		minimum elong	5788 Jun 17 12:32	0°♄16'59	0°05'52
evening max el	5787 Aug 04 09:44	9°♄52'04	23°54'19	behind sun begin	5788 Jun 17 07:24	29°♄49'44	
desc. node	5787 Aug 07 04:44	12°♄19'18		behind sun end	5788 Jun 17 17:40	0°♄44'16	
retrograde	5787 Aug 18 02:52	16°♄45'38		asc. node	5788 Jun 18 01:53	1°♄27'57	
evening set	5787 Aug 22 15:17	16°♄00'36		evening rise	5788 Jun 24 16:47	15°♄36'27	
min. Earth dist.	5787 Aug 28 20:05	13°♄00'18	0.56122 AU		5788 Jul 01 21:35	0°♄	
inferior conj	5787 Aug 31 03:25	11°♄36'03	-5°17'07	evening max el	5788 Jul 15 23:42	20°♄12'12	22°16'39
minimum elong	5787 Aug 31 00:30	11°♄40'31	5°16'56	desc. node	5788 Jul 24 01:47	25°♄43'05	
morning rise	5787 Sep 08 12:11	7°♄39'20		retrograde	5788 Jul 28 22:02	26°♄37'35	
direct	5787 Sep 11 06:44	7°♄19'44		evening set	5788 Jul 31 22:39	26°♄17'21	
morning max el	5787 Sep 21 08:59	12°♄02'10	19°57'12	min. Earth dist.	5788 Aug 09 05:56	22°♄41'32	0.55019 AU
asc. node	5787 Sep 28 04:09	20°♄24'04		inferior conj	5788 Aug 10 03:04	22°♄11'44	-4°29'36
	5787 Oct 03 19:48	0°♄		minimum elong	5788 Aug 09 18:39	22°♄23'37	4°27'46
morning set	5787 Oct 09 08:59	10°♄53'04		morning rise	5788 Aug 18 16:24	18°♄22'06	
				direct	5788 Aug 21 21:05	17°♄59'08	
superior conj	5787 Oct 17 03:06	26°♄38'25	1°39'05	morning max el	5788 Sep 02 13:41	23°♄27'05	21°21'32
minimum elong	5787 Oct 17 04:40	26°♄46'17	1°39'01		5788 Sep 08 07:21	0°♄	
	5787 Oct 18 19:46	0°♄		asc. node	5788 Sep 14 01:11	8°♄51'26	
max. Earth dist.	5787 Oct 22 20:44	7°♄47'18	1.37048 AU	morning set	5788 Sep 22 17:38	25°♄38'03	
evening rise	5787 Oct 26 15:37	14°♄46'16			5788 Sep 24 19:43	0°♄	
desc. node	5787 Nov 03 03:57	27°♄43'36					
	5787 Nov 04 13:20	0°♄		superior conj	5788 Sep 30 00:51	10°♄56'39	1°43'03
	5787 Nov 25 18:44	0°♄		minimum elong	5788 Sep 30 00:57	10°♄57'08	1°43'04
evening max el	5787 Dec 01 08:15	6°♄01'23	25°37'50	max. Earth dist.	5788 Oct 04 07:19	19°♄39'04	1.35203 AU
retrograde	5787 Dec 13 15:11	13°♄04'19		evening rise	5788 Oct 08 12:34	27°♄51'39	
evening set	5787 Dec 19 14:29	10°♄36'04			5788 Oct 09 15:51	0°♄	
min. Earth dist.	5787 Dec 23 23:03	5°♄51'00	0.67164 AU	desc. node	5788 Oct 20 01:00	18°♄04'08	
inferior conj	5787 Dec 25 06:14	4°♄11'32	0°02'23		5788 Oct 27 20:06	0°♄	
minimum elong	5787 Dec 25 06:10	4°♄11'45	0°02'24	evening max el	5788 Nov 12 21:10	19°♄43'26	26°37'36
transit middle	5787 Dec 25 06:10	4°♄11'45	0°02'24	retrograde	5788 Nov 25 20:55	26°♄58'45	
transit begin	5787 Dec 25 03:23	4°♄20'38		evening set	5788 Dec 02 08:48	24°♄21'58	

min. Earth dist.	5788 Dec 06 10:50	20°♊11'56	0.66129 AU	evening max el	5789 Oct 26 09:54	3°♊13'09	27°16'17
inferior conj	5788 Dec 08 05:25	18°♊05'11	-0°56'57	retrograde	5789 Nov 08 20:31	10°♊31'16	
minimum elong	5788 Dec 08 07:00	18°♊00'27	0°56'15	evening set	5789 Nov 15 18:45	7°♊52'24	
asc. node	5788 Dec 11 00:27	14°♊56'27		min. Earth dist.	5789 Nov 19 14:55	4°♊17'01	0.64754 AU
morning rise	5788 Dec 14 06:00	12°♊22'14		inferior conj	5789 Nov 21 21:21	1°♊48'50	-2°00'17
direct	5788 Dec 17 03:53	11°♊34'50		minimum elong	5789 Nov 22 00:53	1°♊39'11	1°58'51
morning max el	5788 Dec 23 17:38	15°♊08'35	18°25'18		5789 Nov 23 14:15	30°♋♌	
	5789 Jan 03 15:51	0°♊		asc. node	5789 Nov 27 21:30	26°♌32'26	
morning set	5789 Jan 12 14:01	14°♊11'03		morning rise	5789 Nov 28 08:15	26°♌19'28	
desc. node	5789 Jan 16 00:15	19°♊39'18		direct	5789 Nov 30 22:32	25°♌44'16	
	5789 Jan 22 12:51	0°♋		morning max el	5789 Dec 07 09:40	29°♌09'32	17°58'28
					5789 Dec 08 05:04	0°♋	
superior conj	5789 Jan 28 07:08	9°♋03'31	-1°19'02	morning set	5789 Dec 24 22:23	25°♋31'55	
minimum elong	5789 Jan 27 22:09	8°♋28'18	1°18'01		5789 Dec 27 14:43	0°♋	
max. Earth dist.	5789 Jan 29 03:39	10°♋23'55	1.45372 AU	desc. node	5790 Jan 02 21:16	10°♋19'15	
	5789 Feb 10 15:37	0°♋					
evening rise	5789 Feb 13 06:17	4°♋06'49		superior conj	5790 Jan 07 18:00	18°♋09'46	-0°33'40
greatest brilliancy	5789 Feb 23 07:13	19°♋53'46	-0.8m	minimum elong	5790 Jan 07 13:56	17°♋53'33	0°33'03
	5789 Mar 02 01:34	0°♋		max. Earth dist.	5790 Jan 11 23:19	24°♋51'55	1.45021 AU
evening max el	5789 Mar 07 23:02	7°♋18'41	19°04'46		5790 Jan 15 05:47	0°♋	
asc. node	5789 Mar 08 23:43	8°♋18'13		evening rise	5790 Jan 23 22:51	13°♋30'40	
retrograde	5789 Mar 14 20:28	11°♋11'56			5790 Feb 03 18:18	0°♋	
evening set	5789 Mar 18 05:57	10°♋04'57		greatest brilliancy	5790 Feb 07 06:55	5°♋15'07	-0.6m
inferior conj	5789 Mar 23 18:55	4°♋18'12	3°26'49	evening max el	5790 Feb 19 04:10	20°♋52'48	19°57'30
minimum elong	5789 Mar 23 17:53	4°♋21'27	3°26'43	asc. node	5790 Feb 23 20:46	24°♋33'03	
min. Earth dist.	5789 Mar 25 07:58	2°♋20'24	0.66088 AU	retrograde	5790 Feb 26 18:23	25°♋17'20	
	5789 Mar 27 07:01	30°♋♌		evening set	5790 Mar 02 11:59	23°♋56'00	
morning rise	5789 Mar 29 05:27	28°♋03'09		inferior conj	5790 Mar 07 21:21	17°♋54'49	3°10'20
direct	5789 Apr 04 15:13	25°♋14'41		minimum elong	5790 Mar 07 19:26	18°♋01'14	3°10'00
desc. node	5789 Apr 13 23:34	29°♋37'52		min. Earth dist.	5790 Mar 08 19:51	16°♋39'20	0.67204 AU
	5789 Apr 14 10:02	0°♋		morning rise	5790 Mar 13 02:40	11°♋39'50	
morning max el	5789 Apr 17 11:44	2°♋52'54	26°25'17	direct	5790 Mar 19 00:18	9°♋01'38	
	5789 May 07 23:39	0°♋		morning max el	5790 Mar 30 20:50	16°♋06'55	25°07'10
morning set	5789 May 23 12:41	26°♋39'10		desc. node	5790 Mar 31 20:34	17°♋08'17	
	5789 May 25 07:01	0°♌			5790 Apr 11 08:16	0°♋	
max. Earth dist.	5789 May 27 14:03	4°♌27'05	1.34813 AU		5790 Apr 30 22:01	0°♋	
				morning set	5790 May 06 00:03	8°♋52'03	
superior conj	5789 Jun 01 10:12	14°♌11'22	-0°35'37	max. Earth dist.	5790 May 09 15:27	15°♋30'48	1.36666 AU
minimum elong	5789 Jun 01 12:10	14°♌21'28	0°35'14				
asc. node	5789 Jun 04 22:57	21°♌30'59		superior conj	5790 May 15 22:37	27°♋35'30	-1°05'48
evening rise	5789 Jun 09 01:37	0°♌05'43		minimum elong	5790 May 16 02:21	27°♋53'53	1°05'11
	5789 Jun 09 00:31	0°♌			5790 May 17 03:48	0°♌	
	5789 Jun 27 01:17	0°♌		asc. node	5790 May 22 20:01	11°♌26'09	
evening max el	5789 Jun 27 22:49	0°♌54'48	20°48'16	evening rise	5790 May 24 05:48	14°♌16'50	
retrograde	5789 Jul 09 10:14	6°♌33'25			5790 Jun 01 12:01	0°♌	
desc. node	5789 Jul 10 22:49	6°♌27'48		evening max el	5790 Jun 10 10:27	12°♌17'46	19°37'28
evening set	5789 Jul 11 12:55	6°♌22'44		retrograde	5790 Jun 20 04:29	17°♌04'27	
inferior conj	5789 Jul 20 20:01	2°♌25'45	-2°53'20	evening set	5790 Jun 22 02:14	16°♌54'17	
minimum elong	5789 Jul 20 12:14	2°♌36'48	2°50'43	desc. node	5790 Jun 27 19:50	14°♌40'31	
min. Earth dist.	5789 Jul 21 16:32	1°♌56'35	0.54809 AU	inferior conj	5790 Jun 30 20:55	12°♌50'22	-0°54'56
	5789 Jul 25 07:36	30°♋♌		minimum elong	5790 Jun 30 18:25	12°♌54'18	0°54'01
morning rise	5789 Jul 29 11:22	28°♌24'27		min. Earth dist.	5790 Jul 03 05:19	11°♌21'53	0.55551 AU
direct	5789 Aug 02 06:12	27°♌53'42		morning rise	5790 Jul 09 08:15	8°♌19'10	
	5789 Aug 09 18:23	0°♌		direct	5790 Jul 13 22:15	7°♌32'25	
morning max el	5789 Aug 15 07:53	4°♌09'53	23°01'32	morning max el	5790 Jul 27 21:26	14°♌30'59	24°45'39
asc. node	5789 Aug 31 22:13	27°♌53'17			5790 Aug 09 02:39	0°♌	
	5789 Sep 02 00:46	0°♍		asc. node	5790 Aug 18 19:16	17°♌20'51	
morning set	5789 Sep 07 04:42	10°♍29'14		morning set	5790 Aug 22 16:29	25°♌21'51	
					5790 Aug 24 20:20	0°♍	
superior conj	5789 Sep 14 05:31	25°♍34'22	1°40'10	superior conj	5790 Aug 29 14:36	10°♍24'05	1°31'25
minimum elong	5789 Sep 14 04:24	25°♍28'24	1°40'08	minimum elong	5790 Aug 29 12:41	10°♍13'35	1°31'13
	5789 Sep 16 07:30	0°♍		max. Earth dist.	5790 Aug 31 06:11	13°♍59'30	1.32680 AU
max. Earth dist.	5789 Sep 17 02:37	1°♍40'30	1.33732 AU	evening rise	5790 Sep 05 20:13	25°♍47'33	
evening rise	5789 Sep 21 23:19	11°♍35'22			5790 Sep 07 22:18	0°♍	
	5789 Oct 01 23:30	0°♍		desc. node	5790 Sep 23 19:05	27°♍36'57	
desc. node	5789 Oct 06 22:03	8°♍04'41			5790 Sep 25 10:00	0°♍	
	5789 Oct 23 06:09	0°♍					

evening max el	5790 Oct 08 20:33	16° $\mathbb{M}$ 18'01	27°27'16	desc. node	5791 Sep 10 16:06	16° $\mathbb{A}$ 28'19	
retrograde	5790 Oct 22 13:37	23° $\mathbb{M}$ 33'46		evening max el	5791 Sep 21 02:32	28° $\mathbb{A}$ 44'03	27°05'58
evening set	5790 Oct 29 17:25	21° $\mathbb{M}$ 01'55			5791 Sep 22 11:56	0° $\mathbb{M}$	
min. Earth dist.	5790 Nov 02 09:19	17° $\mathbb{M}$ 57'42	0.63057 AU	retrograde	5791 Oct 04 23:29	5° $\mathbb{M}$ 55'52	
inferior conj	5790 Nov 05 03:20	15° $\mathbb{M}$ 16'27	-3°04'59	evening set	5791 Oct 12 00:55	3° $\mathbb{M}$ 42'48	
minimum elong	5790 Nov 05 08:45	15° $\mathbb{M}$ 03'10	3°03'04	min. Earth dist.	5791 Oct 15 17:02	1° $\mathbb{M}$ 00'52	0.61096 AU
morning rise	5790 Nov 12 01:46	10° $\mathbb{M}$ 04'06			5791 Oct 16 21:43	30° $\mathbb{R}$ $\mathbb{A}$	
direct	5790 Nov 14 10:58	9° $\mathbb{M}$ 37'29		inferior conj	5791 Oct 18 20:06	28° $\mathbb{A}$ 19'02	-4°06'25
asc. node	5790 Nov 14 18:31	9° $\mathbb{M}$ 37'57		minimum elong	5791 Oct 19 02:36	28° $\mathbb{A}$ 04'59	4°04'38
morning max el	5790 Nov 21 02:36	13° $\mathbb{M}$ 03'04	17°49'07	morning rise	5791 Oct 26 06:22	23° $\mathbb{A}$ 27'00	
	5790 Dec 02 16:33	0° $\mathbb{A}$		direct	5791 Oct 28 13:22	23° $\mathbb{A}$ 05'43	
morning set	5790 Dec 07 07:24	8° $\mathbb{A}$ 03'57		asc. node	5791 Nov 01 15:33	24° $\mathbb{A}$ 16'29	
				morning max el	5791 Nov 04 17:10	26° $\mathbb{A}$ 40'16	17°58'17
superior conj	5790 Dec 19 03:38	28° $\mathbb{A}$ 24'20	0°11'26		5791 Nov 07 15:02	0° $\mathbb{M}$	
minimum elong	5790 Dec 19 04:47	28° $\mathbb{A}$ 29'09	0°11'18	morning set	5791 Nov 20 10:31	21° $\mathbb{M}$ 27'00	
behind sun begin	5790 Dec 18 22:07	28° $\mathbb{A}$ 01'20			5791 Nov 25 02:24	0° $\mathbb{A}$	
behind sun end	5790 Dec 19 11:28	28° $\mathbb{A}$ 56'55					
	5790 Dec 20 02:41	0° $\mathbb{B}$		superior conj	5791 Nov 30 15:31	9° $\mathbb{A}$ 55'04	0°48'50
desc. node	5790 Dec 20 18:18	1° $\mathbb{B}$ 04'32		minimum elong	5791 Nov 30 19:07	10° $\mathbb{A}$ 10'49	0°48'21
max. Earth dist.	5790 Dec 25 16:45	9° $\mathbb{B}$ 06'20	1.43972 AU	desc. node	5791 Dec 07 15:19	21° $\mathbb{A}$ 51'20	
evening rise	5791 Jan 03 09:18	22° $\mathbb{B}$ 46'30		max. Earth dist.	5791 Dec 08 05:16	22° $\mathbb{A}$ 49'12	1.42349 AU
	5791 Jan 08 02:39	0° $\mathbb{A}$			5791 Dec 12 15:03	0° $\mathbb{B}$	
	5791 Jan 29 05:15	0° $\mathbb{H}$		evening rise	5791 Dec 14 05:12	2° $\mathbb{B}$ 32'05	
evening max el	5791 Feb 02 03:46	4° $\mathbb{H}$ 27'43	21°03'38		5792 Jan 01 13:21	0° $\mathbb{A}$	
retrograde	5791 Feb 10 16:37	9° $\mathbb{H}$ 30'36		evening max el	5792 Jan 15 22:08	18° $\mathbb{A}$ 04'09	22°19'22
asc. node	5791 Feb 10 17:48	9° $\mathbb{H}$ 30'35		retrograde	5792 Jan 25 13:18	23° $\mathbb{A}$ 47'49	
evening set	5791 Feb 14 19:39	7° $\mathbb{H}$ 54'20		asc. node	5792 Jan 28 14:49	22° $\mathbb{A}$ 58'45	
inferior conj	5791 Feb 20 03:37	1° $\mathbb{H}$ 41'16	2°43'29	evening set	5792 Jan 30 03:17	21° $\mathbb{A}$ 56'13	
minimum elong	5791 Feb 20 01:17	1° $\mathbb{H}$ 49'21	2°42'54	inferior conj	5792 Feb 04 11:39	15° $\mathbb{A}$ 34'40	2°07'51
min. Earth dist.	5791 Feb 20 12:58	1° $\mathbb{H}$ 08'56	0.67888 AU	minimum elong	5792 Feb 04 09:21	15° $\mathbb{A}$ 42'39	2°07'08
	5791 Feb 21 09:06	30° $\mathbb{R}$ $\mathbb{A}$		min. Earth dist.	5792 Feb 04 09:06	15° $\mathbb{A}$ 43'29	0.68164 AU
morning rise	5791 Feb 25 06:44	25° $\mathbb{A}$ 27'59		morning rise	5792 Feb 09 15:17	9° $\mathbb{A}$ 24'31	
direct	5791 Mar 02 14:16	23° $\mathbb{A}$ 07'39		direct	5792 Feb 14 08:16	7° $\mathbb{A}$ 25'58	
morning max el	5791 Mar 13 05:46	29° $\mathbb{A}$ 28'09	23°39'00	morning max el	5792 Feb 23 17:12	12° $\mathbb{A}$ 56'17	22°10'31
	5791 Mar 13 18:14	0° $\mathbb{H}$		desc. node	5792 Mar 04 14:35	24° $\mathbb{A}$ 53'01	
desc. node	5791 Mar 18 17:35	5° $\mathbb{H}$ 39'00			5792 Mar 08 07:37	0° $\mathbb{H}$	
	5791 Apr 05 03:48	0° $\mathbb{Y}$		morning set	5792 Mar 27 22:46	29° $\mathbb{H}$ 46'48	
morning set	5791 Apr 17 13:11	19° $\mathbb{Y}$ 58'52			5792 Mar 28 02:02	0° $\mathbb{Y}$	
max. Earth dist.	5791 Apr 21 11:17	26° $\mathbb{Y}$ 45'53	1.38809 AU	max. Earth dist.	5792 Apr 02 08:32	8° $\mathbb{Y}$ 41'39	1.40998 AU
	5791 Apr 23 07:01	0° $\mathbb{B}$					
superior conj	5791 Apr 28 21:47	10° $\mathbb{B}$ 18'11	-1°34'03	superior conj	5792 Apr 10 03:09	22° $\mathbb{Y}$ 08'44	-1°56'46
minimum elong	5791 Apr 29 02:49	10° $\mathbb{B}$ 41'47	1°33'26	minimum elong	5792 Apr 10 07:56	22° $\mathbb{Y}$ 30'01	1°56'26
evening rise	5791 May 08 02:33	28° $\mathbb{B}$ 01'59			5792 Apr 14 11:28	0° $\mathbb{B}$	
	5791 May 09 02:52	0° $\mathbb{H}$		evening rise	5792 Apr 20 12:26	11° $\mathbb{B}$ 12'24	
asc. node	5791 May 09 17:03	1° $\mathbb{H}$ 08'38		asc. node	5792 Apr 25 14:05	20° $\mathbb{B}$ 33'24	
evening max el	5791 May 24 09:29	24° $\mathbb{H}$ 22'12	18°46'56		5792 May 01 04:32	0° $\mathbb{H}$	
retrograde	5791 Jun 01 15:00	28° $\mathbb{H}$ 25'15		evening max el	5792 May 06 16:42	7° $\mathbb{H}$ 01'12	18°16'49
evening set	5791 Jun 03 17:14	28° $\mathbb{H}$ 10'30		retrograde	5792 May 13 20:21	10° $\mathbb{H}$ 35'45	
inferior conj	5791 Jun 11 16:29	23° $\mathbb{H}$ 49'52	0°52'32	evening set	5792 May 16 05:43	10° $\mathbb{H}$ 12'40	
minimum elong	5791 Jun 11 18:26	23° $\mathbb{H}$ 46'18	0°51'49	inferior conj	5792 May 23 09:43	5° $\mathbb{H}$ 31'54	2°11'39
desc. node	5791 Jun 14 16:51	21° $\mathbb{H}$ 37'54		minimum elong	5792 May 23 13:07	5° $\mathbb{H}$ 24'36	2°10'42
min. Earth dist.	5791 Jun 14 21:51	21° $\mathbb{H}$ 29'07	0.57106 AU	min. Earth dist.	5792 May 26 19:53	2° $\mathbb{H}$ 37'15	0.59171 AU
morning rise	5791 Jun 19 16:16	18° $\mathbb{H}$ 41'50		morning rise	5792 May 30 17:32	29° $\mathbb{B}$ 53'27	
direct	5791 Jun 25 04:14	17° $\mathbb{H}$ 28'05			5792 May 30 12:57	30° $\mathbb{R}$ $\mathbb{B}$	
morning max el	5791 Jul 09 12:43	24° $\mathbb{H}$ 58'03	26°17'48	desc. node	5792 May 31 13:51	29° $\mathbb{B}$ 26'38	
	5791 Jul 14 04:29	0° $\mathbb{B}$		direct	5792 Jun 06 00:21	28° $\mathbb{B}$ 05'48	
	5791 Aug 02 03:46	0° $\mathbb{Q}$			5792 Jun 12 18:18	0° $\mathbb{H}$	
asc. node	5791 Aug 05 16:17	7° $\mathbb{Q}$ 06'04		morning max el	5792 Jun 20 09:36	5° $\mathbb{H}$ 55'07	27°22'54
morning set	5791 Aug 07 03:17	10° $\mathbb{Q}$ 09'31			5792 Jul 08 07:45	0° $\mathbb{B}$	
				morning set	5792 Jul 21 11:28	24° $\mathbb{B}$ 47'06	
superior conj	5791 Aug 14 01:57	25° $\mathbb{Q}$ 17'49	1°17'30	asc. node	5792 Jul 22 13:20	27° $\mathbb{B}$ 03'23	
minimum elong	5791 Aug 13 23:40	25° $\mathbb{Q}$ 05'15	1°17'09		5792 Jul 23 22:22	0° $\mathbb{Q}$	
max. Earth dist.	5791 Aug 14 15:10	26° $\mathbb{Q}$ 30'49	1.32057 AU	max. Earth dist.	5792 Jul 28 02:09	9° $\mathbb{Q}$ 05'42	1.31866 AU
	5791 Aug 16 05:11	0° $\mathbb{H}$					
evening rise	5791 Aug 21 00:10	10° $\mathbb{H}$ 18'17		superior conj	5792 Jul 28 13:44	10° $\mathbb{Q}$ 09'43	0°59'00
	5791 Aug 31 04:42	0° $\mathbb{A}$		minimum elong	5792 Jul 28 11:34	9° $\mathbb{Q}$ 57'47	0°58'35
				evening rise	5792 Aug 04 08:47	25° $\mathbb{Q}$ 00'19	

	5792 Aug 06 18:06	0°♎			5793 Jul 30 03:56	0°♎	
	5792 Aug 24 04:01	0°♏		desc. node	5793 Aug 14 10:08	20°♎56'20	
desc. node	5792 Aug 27 13:07	4°♏22'22		evening max el	5793 Aug 14 17:33	21°♎14'15	24°49'17
evening max el	5792 Sep 02 01:41	10°♏22'34	26°11'27	retrograde	5793 Aug 28 14:54	28°♎14'31	
retrograde	5792 Sep 16 00:43	17°♏29'51		evening set	5793 Sep 02 23:44	27°♎09'37	
evening set	5792 Sep 22 12:25	15°♏47'40		min. Earth dist.	5793 Sep 08 04:53	24°♎23'37	0.57067 AU
min. Earth dist.	5792 Sep 26 14:47	13°♏12'50	0.59017 AU	inferior conj	5793 Sep 11 00:41	22°♎33'00	-5°21'00
inferior conj	5792 Sep 29 20:11	10°♏47'29	-4°56'14	minimum elong	5793 Sep 11 01:38	22°♎31'26	5°20'59
minimum elong	5792 Sep 30 01:38	10°♏37'12	4°55'21	morning rise	5793 Sep 19 05:49	18°♎25'31	
morning rise	5792 Oct 07 17:06	6°♏17'53		direct	5793 Sep 21 19:53	18°♎06'38	
direct	5792 Oct 10 01:37	5°♏59'03		morning max el	5793 Oct 01 01:30	22°♎27'48	19°18'02
morning max el	5792 Oct 18 01:57	9°♏51'51	18°27'23	asc. node	5793 Oct 05 09:37	27°♎27'47	
asc. node	5792 Oct 18 12:34	10°♏18'03			5793 Oct 07 04:18	0°♏	
	5792 Oct 31 06:03	0°♎		morning set	5793 Oct 18 03:07	19°♏49'47	
morning set	5792 Nov 03 02:25	5°♎25'57			5793 Oct 23 05:13	0°♎	
superior conj	5792 Nov 12 02:04	22°♎31'10	1°16'01	superior conj	5793 Oct 26 05:59	5°♎58'01	1°33'14
minimum elong	5792 Nov 12 05:41	22°♎47'57	1°15'37	minimum elong	5793 Oct 26 08:25	6°♎09'55	1°33'04
	5792 Nov 16 04:49	0°♏		max. Earth dist.	5793 Nov 01 18:06	18°♎14'30	1.38236 AU
max. Earth dist.	5792 Nov 19 12:48	5°♏51'07	1.40356 AU	evening rise	5793 Nov 05 12:18	24°♎57'26	
evening rise	5792 Nov 23 21:20	13°♏13'42			5793 Nov 08 10:37	0°♏	
desc. node	5792 Nov 23 12:20	12°♏36'15		desc. node	5793 Nov 10 09:22	3°♏15'48	
	5792 Dec 04 11:22	0°♏			5793 Nov 28 03:26	0°♏	
	5792 Dec 26 20:41	0°♏		evening max el	5793 Dec 11 01:58	15°♏28'28	24°56'56
evening max el	5792 Dec 28 12:51	1°♏44'06	23°39'19	retrograde	5793 Dec 22 20:30	22°♏18'15	
retrograde	5793 Jan 08 06:58	8°♏04'53		evening set	5793 Dec 28 12:09	19°♏57'11	
evening set	5793 Jan 13 09:17	5°♏58'04		asc. node	5794 Jan 01 08:51	15°♏44'01	
asc. node	5793 Jan 14 11:50	4°♏56'04		min. Earth dist.	5794 Jan 02 00:54	14°♏52'08	0.67603 AU
min. Earth dist.	5793 Jan 18 05:51	0°♏18'46	0.68064 AU	inferior conj	5794 Jan 03 01:36	13°♏30'54	0°34'13
	5793 Jan 18 11:21	30°♏3		minimum elong	5794 Jan 03 00:46	13°♏33'38	0°33'53
inferior conj	5793 Jan 18 19:34	29°♏31'55	1°24'28	morning rise	5794 Jan 08 13:35	7°♏32'31	
minimum elong	5793 Jan 18 17:46	29°♏38'03	1°23'49	direct	5794 Jan 12 04:00	6°♏17'55	
morning rise	5793 Jan 24 02:12	23°♏26'39		morning max el	5794 Jan 19 12:02	10°♏24'52	19°41'19
direct	5793 Jan 28 05:18	21°♏50'46		greatest brilliancy	5794 Feb 01 11:59	27°♏29'11	-0.7m
morning max el	5793 Feb 05 10:36	26°♏34'21	20°49'34		5794 Feb 03 04:36	0°♏	
	5793 Feb 08 13:40	0°♏		desc. node	5794 Feb 06 08:37	4°♏45'53	
desc. node	5793 Feb 19 11:35	14°♏37'58		morning set	5794 Feb 14 02:05	16°♏34'54	
	5793 Mar 01 19:35	0°♏			5794 Feb 22 17:02	0°♏	
morning set	5793 Mar 07 05:39	8°♏21'30		max. Earth dist.	5794 Feb 26 00:31	5°♏13'48	1.44431 AU
max. Earth dist.	5793 Mar 15 12:34	21°♏32'30	1.42956 AU				
	5793 Mar 20 15:53	0°♏		superior conj	5794 Mar 02 15:01	12°♏35'40	-2°04'51
				minimum elong	5794 Mar 02 10:20	12°♏16'50	2°04'39
superior conj	5793 Mar 22 09:46	2°♏55'48	-2°08'58		5794 Mar 13 04:51	0°♏	
minimum elong	5793 Mar 22 11:20	3°♏02'23	2°08'56	evening rise	5794 Mar 16 06:30	5°♏10'21	
evening rise	5793 Apr 03 07:13	23°♏37'51		asc. node	5794 Mar 30 08:08	28°♏01'50	
	5793 Apr 06 21:16	0°♏			5794 Mar 31 19:06	0°♏	
asc. node	5793 Apr 12 11:07	9°♏33'42		evening max el	5794 Apr 03 17:26	3°♏23'23	18°14'50
evening max el	5793 Apr 20 04:26	20°♏04'28	18°06'22	retrograde	5794 Apr 10 03:05	6°♏47'56	
retrograde	5793 Apr 26 17:50	23°♏26'39		evening set	5794 Apr 13 01:51	6°♏01'45	
evening set	5793 Apr 29 10:09	22°♏52'42		inferior conj	5794 Apr 19 02:09	0°♏41'23	3°25'26
inferior conj	5793 May 05 22:16	17°♏51'33	3°00'58	minimum elong	5794 Apr 19 03:21	0°♏38'02	3°25'19
minimum elong	5793 May 06 00:59	17°♏44'51	3°00'28		5794 Apr 19 16:56	30°♏♏	
min. Earth dist.	5793 May 09 01:11	14°♏47'49	0.61391 AU	min. Earth dist.	5794 Apr 21 15:27	27°♏51'31	0.63477 AU
morning rise	5793 May 12 13:50	11°♏53'23		morning rise	5794 Apr 25 03:45	24°♏32'15	
desc. node	5793 May 18 10:52	9°♏36'34		direct	5794 May 01 23:41	21°♏51'46	
direct	5793 May 19 07:37	9°♏34'21		desc. node	5794 May 05 07:54	22°♏25'46	
morning max el	5793 Jun 02 12:43	17°♏33'07	27°52'11	morning max el	5794 May 15 20:40	29°♏51'32	27°43'50
	5793 Jun 12 21:16	0°♏			5794 May 16 00:02	0°♏	
	5793 Jul 01 00:48	0°♏		morning set	5794 Jun 06 21:03	0°♏	
morning set	5793 Jul 05 15:10	9°♏08'39			5794 Jun 19 12:03	23°♏07'05	
asc. node	5793 Jul 09 10:22	17°♏07'42			5794 Jun 22 21:06	0°♏	
max. Earth dist.	5793 Jul 11 11:29	21°♏33'10	1.32106 AU	max. Earth dist.	5794 Jun 24 15:16	3°♏41'01	1.32789 AU
				asc. node	5794 Jun 26 07:25	7°♏14'36	
superior conj	5793 Jul 13 00:12	24°♏53'51	0°36'27				
minimum elong	5793 Jul 12 22:38	24°♏45'15	0°36'06	superior conj	5794 Jun 27 07:32	9°♏24'07	0°10'25
	5793 Jul 15 07:56	0°♏		minimum elong	5794 Jun 27 07:01	9°♏21'24	0°10'17
evening rise	5793 Jul 19 19:57	9°♏47'00		behind sun begin	5794 Jun 27 02:55	8°♏59'21	



behind sun end	5794 Jun 27 11:07	9°  43'28		superior conj	5795 Jun 11 09:36	23°  34'31	-0°18'19
evening rise	5794 Jul 04 07:44	24°  31'43		minimum elong	5795 Jun 11 10:35	23°  39'38	0°18'08
	5794 Jul 06 22:31	0°  Ω		asc. node	5795 Jun 13 04:27	27°  20'12	
	5794 Jul 25 16:14	0°  ൬			5795 Jun 14 10:36	0°  Ω	
evening max el	5794 Jul 27 05:48	1°  ൬35'54	23°12'27	evening rise	5795 Jun 18 18:15	9°  Ω08'32	
desc. node	5794 Aug 01 07:10	5°  ൬39'32			5795 Jun 29 17:56	0°  Ω	
retrograde	5794 Aug 09 16:27	8°  ൬19'32		evening max el	5795 Jul 08 22:42	12°  Ω01'35	21°37'19
evening set	5794 Aug 13 13:16	7°  ൬46'50		desc. node	5795 Jul 19 04:12	17°  Ω58'35	
min. Earth dist.	5794 Aug 20 14:53	4°  ൬33'17	0.55560 AU	retrograde	5795 Jul 21 07:55	18°  Ω09'36	
inferior conj	5794 Aug 22 09:22	3°  ൬31'20	-5°03'37	evening set	5795 Jul 23 20:59	17°  Ω54'53	
minimum elong	5794 Aug 22 03:39	3°  ൬39'43	5°02'52	inferior conj	5795 Aug 02 04:31	13°  Ω54'17	-3°53'45
	5794 Aug 29 14:44	30°  RΩ		minimum elong	5795 Aug 01 19:31	14°  Ω06'53	3°51'15
morning rise	5794 Aug 30 20:18	29°  Ω39'48		min. Earth dist.	5795 Aug 02 00:40	13°  Ω59'41	0.54806 AU
direct	5794 Sep 02 19:05	29°  Ω18'58		morning rise	5795 Aug 10 19:15	10°  Ω02'36	
	5794 Sep 06 19:14	0°  ൬		direct	5795 Aug 14 05:10	9°  Ω37'16	
morning max el	5794 Sep 13 13:13	4°  ൬19'16	20°30'41	morning max el	5795 Aug 26 13:07	15°  Ω25'30	22°02'44
asc. node	5794 Sep 22 06:40	15°  ൬30'25			5795 Sep 06 17:06	0°  ൬	
	5794 Sep 30 04:31	0°  Ω		asc. node	5795 Sep 09 03:44	4°  ൬13'47	
morning set	5794 Oct 02 09:32	4°  Ω29'03		morning set	5795 Sep 16 19:27	19°  ൬17'35	
					5795 Sep 21 20:40	0°  Ω	
superior conj	5794 Oct 09 22:21	20°  Ω00'47	1°41'40	superior conj	5795 Sep 23 23:26	4°  Ω28'45	1°42'36
minimum elong	5794 Oct 09 23:17	20°  Ω05'29	1°41'40	minimum elong	5795 Sep 23 22:58	4°  Ω26'19	1°42'37
	5794 Oct 14 23:00	0°  ൬		max. Earth dist.	5795 Sep 27 15:30	12°  Ω05'39	1.34527 AU
max. Earth dist.	5794 Oct 15 01:27	0°  ൬11'47	1.36228 AU	evening rise	5795 Oct 02 02:45	20°  Ω58'23	
evening rise	5794 Oct 18 23:27	7°  ൬35'31			5795 Oct 06 22:40	0°  ൬	
desc. node	5794 Oct 28 06:25	23°  ൬44'41		desc. node	5795 Oct 15 03:27	13°  ൬57'27	
	5794 Nov 01 04:28	0°  ♊			5795 Oct 26 01:54	0°  ♊	
evening max el	5794 Nov 23 14:42	29°  ♊12'40	26°05'14	evening max el	5795 Nov 06 03:27	12°  ♊49'55	26°56'50
	5794 Nov 24 10:35	0°  ♋		retrograde	5795 Nov 19 08:25	20°  ♊07'46	
retrograde	5794 Dec 06 05:09	6°  ♋21'33		evening set	5795 Nov 26 01:13	17°  ♊28'47	
evening set	5794 Dec 12 10:08	3°  ♋48'55		min. Earth dist.	5795 Nov 30 00:31	13°  ♊33'56	0.65593 AU
	5794 Dec 16 02:19	30°  R♊		inferior conj	5795 Dec 02 00:14	11°  ♊16'55	-1°23'27
min. Earth dist.	5794 Dec 16 15:51	29°  ♊18'57	0.66777 AU	minimum elong	5795 Dec 02 02:38	11°  ♊10'01	1°22'25
inferior conj	5794 Dec 18 03:52	27°  ♊27'16	-0°22'08	asc. node	5795 Dec 06 02:57	7°  ♊03'05	
minimum elong	5794 Dec 18 04:27	27°  ♊25'26	0°21'52	morning rise	5795 Dec 08 05:04	5°  ♊39'38	
asc. node	5794 Dec 19 05:54	26°  ♊07'24		direct	5795 Dec 10 23:22	4°  ♊58'01	
morning rise	5794 Dec 23 23:19	21°  ♊38'10		morning max el	5795 Dec 17 11:13	8°  ♊26'58	18°11'46
direct	5794 Dec 27 02:41	20°  ♊41'56			5796 Jan 01 09:43	0°  ♋	
morning max el	5795 Jan 02 20:56	24°  ♊24'22	18°48'22	morning set	5796 Jan 05 04:41	6°  ♋10'14	
	5795 Jan 07 14:17	0°  ♋		desc. node	5796 Jan 11 02:41	15°  ♋45'14	
desc. node	5795 Jan 24 05:40	25°  ♋09'58					
morning set	5795 Jan 24 13:06	25°  ♋39'07		superior conj	5796 Jan 20 03:49	0°  ♋08'58	-1°00'26
	5795 Jan 27 07:39	0°  ♌		minimum elong	5796 Jan 19 20:31	29°  ♋40'11	0°59'29
max. Earth dist.	5795 Feb 08 17:48	19°  ♌27'28	1.45241 AU		5796 Jan 20 01:32	0°  ♌	
				max. Earth dist.	5796 Jan 22 13:05	3°  ♌54'03	1.45312 AU
superior conj	5795 Feb 09 23:37	21°  ♌24'34	-1°40'51	evening rise	5796 Feb 05 09:11	25°  ♌29'35	
minimum elong	5795 Feb 09 14:17	20°  ♌47'54	1°40'01		5796 Feb 08 06:41	0°  ♌	
	5795 Feb 15 10:21	0°  ♌		greatest brilliancy	5796 Feb 17 11:28	14°  ♌10'57	-0.7m
evening rise	5795 Feb 25 06:58	15°  ♌45'46			5796 Feb 29 03:33	0°  ♌	
greatest brilliancy	5795 Mar 03 14:04	25°  ♌55'26	-0.9m	evening max el	5796 Feb 29 12:46	0°  ♌23'54	19°25'21
	5795 Mar 06 03:13	0°  ♌		asc. node	5796 Mar 03 02:12	2°  ♌40'32	
asc. node	5795 Mar 17 05:10	15°  ♌48'14		retrograde	5796 Mar 07 16:43	4°  ♌29'51	
evening max el	5795 Mar 18 04:55	16°  ♌51'25	18°41'33	evening set	5796 Mar 11 05:25	3°  ♌16'59	
retrograde	5795 Mar 24 19:52	20°  ♌31'17			5796 Mar 14 15:06	30°  R♌	
evening set	5795 Mar 28 01:12	19°  ♌32'06		inferior conj	5796 Mar 16 16:32	27°  ♌23'43	3°21'13
inferior conj	5795 Apr 02 17:22	13°  ♌54'16	3°30'42	minimum elong	5796 Mar 16 15:05	27°  ♌28'28	3°21'02
minimum elong	5795 Apr 02 17:04	13°  ♌55'12	3°30'41	min. Earth dist.	5796 Mar 17 23:15	25°  ♌43'23	0.66610 AU
min. Earth dist.	5795 Apr 04 15:12	11°  ♌34'33	0.65244 AU	morning rise	5796 Mar 22 00:26	21°  ♌08'09	
morning rise	5795 Apr 08 08:23	7°  ♌40'05		direct	5796 Mar 28 05:17	18°  ♌22'50	
direct	5795 Apr 14 23:14	4°  ♌50'58		desc. node	5796 Apr 08 01:58	24°  ♌15'18	
desc. node	5795 Apr 22 04:57	7°  ♌29'57		morning max el	5796 Apr 09 16:42	25°  ♌49'43	25°53'57
morning max el	5795 Apr 28 06:52	12°  ♌41'28	27°01'50		5796 Apr 13 12:33	0°  ♌	
	5795 May 12 04:08	0°  ♌			5796 May 04 17:07	0°  ♌	
	5795 May 30 11:33	6°  ♌34'10		morning set	5796 May 15 20:40	19°  ♌17'45	
morning set	5795 Jun 02 23:15	15°  ♌20'29	1.33933 AU	max. Earth dist.	5796 May 19 16:43	26°  ♌30'33	1.35547 AU
max. Earth dist.	5795 Jun 07 09:48				5796 May 21 11:56	0°  ♌	

superior conj	5796 May 25 03:50	7°II17'17	-0°48'29	superior conj	5797 May 08 11:06	20°824'56	-1°18'12
minimum elong	5796 May 25 06:34	7°II31'04	0°48'00	minimum elong	5797 May 08 15:29	20°846'07	1°17'34
asc. node	5796 May 30 01:29	17°II19'51			5797 May 13 08:13	0°II	
evening rise	5796 Jun 02 01:22	23°II30'13		asc. node	5797 May 16 22:30	7°II09'53	
	5796 Jun 05 06:37	0°☾		evening rise	5797 May 17 02:42	7°II30'46	
evening max el	5796 Jun 20 02:57	22°☾59'35	20°15'49		5797 May 29 20:25	0°☾	
retrograde	5796 Jun 30 21:15	28°☾16'08		evening max el	5797 Jun 02 19:49	4°☾40'42	19°13'29
evening set	5796 Jul 02 19:46	28°☾06'36		retrograde	5797 Jun 11 21:02	9°☾06'38	
desc. node	5796 Jul 05 01:14	27°☾33'41		evening set	5797 Jun 13 20:08	8°☾55'01	
inferior conj	5796 Jul 11 23:04	24°☾08'31	-2°03'43	desc. node	5797 Jun 21 22:14	4°☾59'40	
minimum elong	5796 Jul 11 17:18	24°☾17'00	2°01'38	inferior conj	5797 Jun 22 06:56	4°☾45'08	-0°06'30
min. Earth dist.	5796 Jul 13 12:19	23°☾13'41	0.55003 AU	minimum elong	5797 Jun 22 06:40	4°☾45'36	0°06'25
morning rise	5796 Jul 20 13:34	19°☾55'49		transit middle	5797 Jun 22 06:40	4°☾45'36	0°06'25
direct	5796 Jul 24 15:43	19°☾19'33		transit begin	5797 Jun 22 03:09	4°☾51'28	
morning max el	5796 Aug 07 04:37	25°☾55'49	23°46'14	transit end	5797 Jun 22 10:10	4°☾39'43	
	5796 Aug 11 01:20	0°♊		min. Earth dist.	5797 Jun 25 02:35	2°☾52'37	0.56133 AU
asc. node	5796 Aug 26 00:46	23°♊26'59		morning rise	5797 Jun 30 14:09	29°II58'12	
	5796 Aug 29 07:16	0°♊			5797 Jun 30 12:15	30°♊II	
morning set	5796 Aug 31 06:59	4°♊09'23		direct	5797 Jul 05 13:48	29°II00'53	
					5797 Jul 10 15:07	0°☾	
superior conj	5796 Sep 07 06:15	19°♊12'12	1°37'08	morning max el	5797 Jul 19 17:55	6°☾14'31	25°27'16
minimum elong	5796 Sep 07 04:45	19°♊04'02	1°37'02		5797 Aug 06 01:18	0°♊	
max. Earth dist.	5796 Sep 09 14:12	24°♊12'28	1.33226 AU	asc. node	5797 Aug 12 21:47	13°♊02'11	
	5796 Sep 12 08:21	0°♊		morning set	5797 Aug 15 18:29	18°♊59'35	
evening rise	5796 Sep 14 18:11	4°♊54'58			5797 Aug 20 20:11	0°♊	
	5796 Sep 28 14:54	0°♊					
desc. node	5796 Oct 01 00:29	3°♊46'54		superior conj	5797 Aug 22 16:29	4°♊03'44	1°26'07
evening max el	5796 Oct 18 15:26	26°♊10'15	27°24'40	minimum elong	5797 Aug 22 14:22	3°♊52'02	1°25'51
	5796 Oct 23 05:28	0°♊		max. Earth dist.	5797 Aug 23 20:19	6°♊36'20	1.32360 AU
retrograde	5796 Nov 01 05:38	3°♊28'40		evening rise	5797 Aug 29 18:23	19°♊15'38	
evening set	5796 Nov 08 06:49	0°♊51'26			5797 Sep 04 04:01	0°♊	
	5796 Nov 09 08:46	30°♊♊		desc. node	5797 Sep 17 21:30	23°♊03'02	
min. Earth dist.	5796 Nov 12 00:48	27°♊29'52	0.64066 AU		5797 Sep 22 23:27	0°♊	
inferior conj	5796 Nov 14 12:18	24°♊54'40	-2°27'48	evening max el	5797 Oct 01 00:37	9°♊00'34	27°22'31
minimum elong	5796 Nov 14 16:41	24°♊43'13	2°26'06	retrograde	5797 Oct 14 19:48	16°♊14'29	
morning rise	5796 Nov 21 04:02	19°♊32'09		evening set	5797 Oct 21 23:34	13°♊49'32	
asc. node	5796 Nov 21 24:00	19°♊14'59		min. Earth dist.	5797 Oct 25 14:53	10°♊55'56	0.62242 AU
direct	5796 Nov 23 15:41	19°♊01'11		inferior conj	5797 Oct 28 13:06	8°♊12'49	-3°31'53
morning max el	5796 Nov 30 04:02	22°♊25'53	17°52'14	minimum elong	5797 Oct 28 19:09	7°♊58'44	3°29'55
	5796 Dec 06 01:55	0°♊		morning rise	5797 Nov 04 16:34	3°♊08'25	
morning set	5796 Dec 17 00:22	18°♊03'55		direct	5797 Nov 07 00:24	2°♊44'26	
	5796 Dec 24 01:50	0°♊		asc. node	5797 Nov 08 21:03	3°♊00'15	
desc. node	5796 Dec 27 23:42	6°♊27'54		morning max el	5797 Nov 13 20:18	6°♊13'05	17°50'38
					5797 Nov 29 04:27	0°♊	
superior conj	5796 Dec 29 23:16	9°♊41'47	-0°13'57	morning set	5797 Nov 29 17:54	1°♊00'12	
minimum elong	5796 Dec 29 21:40	9°♊35'20	0°13'41				
behind sun begin	5796 Dec 29 16:20	9°♊13'38		superior conj	5797 Dec 10 20:11	20°♊28'58	0°28'28
behind sun end	5796 Dec 30 03:01	9°♊57'01		minimum elong	5797 Dec 10 22:44	20°♊39'50	0°28'07
max. Earth dist.	5797 Jan 04 07:35	18°♊16'30	1.44653 AU	desc. node	5797 Dec 14 20:42	27°♊14'06	
	5797 Jan 11 19:14	0°♊			5797 Dec 16 12:59	0°♊	
evening rise	5797 Jan 14 21:13	4°♊45'16		max. Earth dist.	5797 Dec 17 23:15	2°♊19'46	1.43346 AU
	5797 Jan 31 17:47	0°♊		evening rise	5797 Dec 25 09:58	14°♊09'59	
evening max el	5797 Feb 11 15:37	13°♊58'47	20°24'13		5798 Jan 04 20:17	0°♊	
asc. node	5797 Feb 17 23:14	18°♊24'34		evening max el	5798 Jan 25 13:01	27°♊34'47	21°34'59
retrograde	5797 Feb 19 15:00	18°♊39'09			5798 Jan 28 03:49	0°♊	
evening set	5797 Feb 23 12:21	17°♊11'45		retrograde	5798 Feb 03 12:38	2°♊54'27	
inferior conj	5797 Feb 28 20:54	11°♊05'19	3°00'05	asc. node	5798 Feb 04 20:17	2°♊45'13	
minimum elong	5797 Feb 28 18:45	11°♊12'39	2°59'39	evening set	5798 Feb 07 20:11	1°♊11'45	
min. Earth dist.	5797 Mar 01 13:44	10°♊07'58	0.67548 AU		5798 Feb 09 03:27	30°♊♊	
morning rise	5797 Mar 06 00:55	4°♊50'45		inferior conj	5798 Feb 13 04:09	24°♊54'55	2°29'21
direct	5797 Mar 11 16:46	2°♊19'07		minimum elong	5798 Feb 13 01:46	25°♊03'10	2°28'41
morning max el	5797 Mar 23 01:22	9°♊06'54	24°30'10	min. Earth dist.	5798 Feb 13 08:22	24°♊40'18	0.68063 AU
desc. node	5797 Mar 25 22:58	12°♊13'56		morning rise	5798 Feb 18 07:11	18°♊42'54	
	5797 Apr 08 12:15	0°♊		direct	5798 Feb 23 08:38	16°♊31'23	
	5797 Apr 27 08:32	0°♊		morning max el	5798 Mar 05 10:44	22°♊29'58	23°00'45
morning set	5797 Apr 27 23:16	1°♊04'21			5798 Mar 11 23:37	0°♊	
max. Earth dist.	5797 May 01 14:21	7°♊32'37	1.37556 AU	desc. node	5798 Mar 12 19:58	1°♊04'35	

































































































































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morning set	5798 Apr 09 01:03	11°♿37'59					
max. Earth dist.	5798 Apr 13 10:00	19°♿02'17	1.39761 AU	superior conj	5799 Apr 02 23:31	14°♿11'32	-2°03'35
	5798 Apr 19 14:42	0°♿		minimum elong	5799 Apr 03 03:22	14°♿28'17	2°03'23
					5799 Apr 11 19:53	0°♿	
superior conj	5798 Apr 21 03:17	2°♿46'56	-1°44'38	evening rise	5799 Apr 13 23:16	3°♿54'47	
minimum elong	5798 Apr 21 08:28	3°♿10'46	1°44'06	asc. node	5799 Apr 20 16:34	16°♿00'41	
evening rise	5798 Apr 30 19:15	21°♿02'03			5799 Apr 30 11:58	0°♿	
asc. node	5798 May 03 19:32	26°♿45'27		evening max el	5799 Apr 30 08:18	29°♿51'06	18°09'56
	5798 May 05 13:22	0°♿		retrograde	5799 May 07 04:36	3°♿18'48	
evening max el	5798 May 16 22:48	17°♿00'59	18°31'38	evening set	5799 May 09 16:56	2°♿51'19	
retrograde	5798 May 24 15:36	20°♿49'40			5799 May 14 07:40	30°♿♿	
evening set	5798 May 26 20:59	20°♿31'36		inferior conj	5799 May 16 13:39	28°♿01'26	2°36'02
inferior conj	5798 Jun 03 11:43	16°♿02'19	1°29'56	minimum elong	5799 May 16 16:56	27°♿53'55	2°35'14
minimum elong	5798 Jun 03 14:38	15°♿56'36	1°28'59	min. Earth dist.	5799 May 19 21:40	25°♿00'02	0.60114 AU
min. Earth dist.	5798 Jun 06 20:53	13°♿24'36	0.57949 AU	morning rise	5799 May 23 14:22	22°♿13'10	
desc. node	5798 Jun 08 19:13	12°♿03'29		desc. node	5799 May 26 16:15	20°♿45'27	
morning rise	5798 Jun 11 05:02	10°♿40'30		direct	5799 May 30 02:43	20°♿11'42	
direct	5798 Jun 17 01:54	9°♿12'47		morning max el	5799 Jun 13 10:57	28°♿05'55	27°40'10
morning max el	5798 Jul 01 11:08	16°♿51'21	26°49'35		5799 Jun 15 07:13	0°♿	
	5798 Jul 12 06:35	0°♿			5799 Jul 06 00:33	0°♿	
	5798 Jul 29 09:28	0°♿		morning set	5799 Jul 15 10:55	18°♿15'23	
asc. node	5798 Jul 30 18:49	2°♿53'16		asc. node	5799 Jul 17 15:50	22°♿54'08	
morning set	5798 Jul 31 04:24	3°♿43'42			5799 Jul 20 22:28	0°♿	
				max. Earth dist.	5799 Jul 21 17:43	1°♿45'39	1.31914 AU
superior conj	5798 Aug 07 04:14	18°♿57'23	1°10'11				
minimum elong	5798 Aug 07 01:56	18°♿44'44	1°09'48	superior conj	5799 Jul 22 15:39	3°♿46'28	0°49'53
max. Earth dist.	5798 Aug 07 06:48	19°♿11'38	1.31924 AU	minimum elong	5799 Jul 22 13:40	3°♿35'37	0°49'29
	5798 Aug 12 05:05	0°♿		evening rise	5799 Jul 29 10:33	18°♿37'02	
evening rise	5798 Aug 14 00:38	3°♿52'22			5799 Aug 04 00:02	0°♿	
	5798 Aug 27 22:40	0°♿		desc. node	5799 Aug 22 15:32	28°♿55'41	
desc. node	5798 Sep 04 18:30	11°♿32'31			5799 Aug 23 14:52	0°♿	
evening max el	5798 Sep 13 04:09	21°♿08'01	26°46'48	evening max el	5799 Aug 25 23:50	2°♿24'40	25°39'13
retrograde	5798 Sep 27 01:52	28°♿17'04		retrograde	5799 Sep 08 22:31	9°♿29'50	
evening set	5798 Oct 03 23:09	26°♿15'58		evening set	5799 Sep 15 00:40	8°♿02'53	
min. Earth dist.	5798 Oct 07 18:07	23°♿39'18	0.60213 AU	min. Earth dist.	5799 Sep 19 11:53	5°♿25'54	0.58153 AU
inferior conj	5798 Oct 10 23:14	21°♿02'32	-4°29'38	inferior conj	5799 Sep 22 15:11	3°♿13'01	-5°10'47
minimum elong	5798 Oct 11 05:39	20°♿49'27	4°28'10	minimum elong	5799 Sep 22 19:10	3°♿05'56	5°10'22
morning rise	5798 Oct 18 14:13	16°♿19'39			5799 Sep 27 17:47	30°♿♿	
direct	5798 Oct 20 21:33	15°♿59'36		morning rise	5799 Sep 30 15:59	28°♿53'31	
asc. node	5798 Oct 26 18:04	18°♿15'57		direct	5799 Oct 03 02:28	28°♿34'54	
morning max el	5798 Oct 28 08:48	19°♿40'32	18°08'11		5799 Oct 08 03:16	0°♿	
	5798 Nov 04 23:46	0°♿		morning max el	5799 Oct 11 14:04	2°♿38'00	18°46'22
morning set	5798 Nov 13 03:05	14°♿40'51		asc. node	5799 Oct 13 15:06	4°♿48'09	
	5798 Nov 21 09:12	0°♿		morning set	5799 Oct 27 23:07	28°♿51'12	
					5799 Oct 28 13:11	0°♿	
superior conj	5798 Nov 22 18:24	2°♿29'46	1°01'37				
minimum elong	5798 Nov 22 22:14	2°♿46'57	1°01'08	superior conj	5799 Nov 05 12:59	15°♿29'19	1°24'28
max. Earth dist.	5798 Nov 30 10:14	15°♿48'50	1.41538 AU	minimum elong	5799 Nov 05 16:12	15°♿44'30	1°24'10
desc. node	5798 Dec 01 17:45	18°♿00'47		max. Earth dist.	5799 Nov 12 16:16	28°♿32'59	1.39449 AU
evening rise	5798 Dec 05 13:47	24°♿18'04			5799 Nov 13 12:04	0°♿	
	5798 Dec 09 03:38	0°♿		evening rise	5799 Nov 16 15:37	5°♿25'36	
	5798 Dec 29 18:48	0°♿		desc. node	5799 Nov 18 14:48	8°♿43'49	
evening max el	5799 Jan 08 05:40	11°♿12'56	22°53'06		5799 Dec 02 06:10	0°♿	
retrograde	5799 Jan 18 08:08	17°♿12'33		evening max el	5799 Dec 21 19:18	24°♿54'20	24°12'57
asc. node	5799 Jan 22 17:18	15°♿34'15			5799 Dec 28 03:25	0°♿	
evening set	5799 Jan 23 03:20	15°♿14'12		retrograde	5800 Jan 02 00:17	1°♿29'09	
min. Earth dist.	5799 Jan 28 04:57	9°♿15'53	0.68178 AU		5800 Jan 06 09:23	30°♿♿	
inferior conj	5799 Jan 28 12:21	8°♿50'15	1°50'20	evening set	5800 Jan 07 08:15	29°♿15'48	
minimum elong	5799 Jan 28 10:13	8°♿57'40	1°49'37	asc. node	5800 Jan 09 14:20	26°♿58'31	
morning rise	5799 Feb 02 17:01	2°♿42'14		min. Earth dist.	5800 Jan 12 01:14	23°♿51'06	0.67910 AU
direct	5799 Feb 07 04:00	0°♿53'29		inferior conj	5800 Jan 12 19:43	22°♿48'49	1°03'59
morning max el	5799 Feb 16 00:26	6°♿02'25	21°34'45	minimum elong	5800 Jan 12 18:16	22°♿53'41	1°03'25
desc. node	5799 Feb 27 17:00	20°♿32'59		morning rise	5800 Jan 18 04:23	16°♿46'21	
	5799 Mar 06 07:09	0°♿		direct	5800 Jan 22 01:48	15°♿20'04	
morning set	5799 Mar 19 22:28	20°♿51'51		morning max el	5800 Jan 29 21:21	19°♿46'49	20°18'49
	5799 Mar 25 14:08	0°♿			5800 Feb 07 06:16	0°♿	

desc. node	5800 Feb 14 14:03	10° $\approx$ 28'56			5801 Jan 07 15:09	0° $\approx$	
morning set	5800 Feb 26 22:11	29° $\approx$ 10'03		morning max el	5801 Jan 13 02:06	3° $\approx$ 41'36	19°16'50
	5800 Feb 27 11:06	0° $\approx$		greatest brilliancy	5801 Jan 26 10:34	21° $\approx$ 33'19	-0.7m
max. Earth dist.	5800 Mar 08 17:55	14° $\approx$ 37'50	1.43653 AU		5801 Jan 31 23:32	0° $\approx$	
				desc. node	5801 Feb 01 11:05	0° $\approx$ 44'25	
superior conj	5800 Mar 14 19:27	24° $\approx$ 30'12	-2°09'31	morning set	5801 Feb 05 21:57	7° $\approx$ 37'01	
minimum elong	5800 Mar 14 18:36	24° $\approx$ 26'41	2°09'31	max. Earth dist.	5801 Feb 19 07:57	28° $\approx$ 33'24	1.44857 AU
	5800 Mar 18 02:37	0° $\approx$			5801 Feb 20 05:53	0° $\approx$	
evening rise	5800 Mar 27 10:24	15° $\approx$ 59'39					
	5800 Apr 04 13:39	0° $\approx$		superior conj	5801 Feb 22 14:44	3° $\approx$ 45'17	-1°57'06
asc. node	5800 Apr 07 13:36	4° $\approx$ 49'00		minimum elong	5801 Feb 22 07:29	3° $\approx$ 16'26	1°56'39
evening max el	5800 Apr 13 20:56	13° $\approx$ 02'24	18°07'38	evening rise	5801 Mar 09 00:15	27° $\approx$ 08'04	
retrograde	5800 Apr 20 07:45	16° $\approx$ 24'14			5801 Mar 10 17:44	0° $\approx$	
evening set	5800 Apr 23 02:42	15° $\approx$ 45'23		asc. node	5801 Mar 25 10:39	23° $\approx$ 01'15	
inferior conj	5800 Apr 29 09:19	10° $\approx$ 35'57	3°14'02	evening max el	5801 Mar 28 09:39	26° $\approx$ 26'28	18°24'02
minimum elong	5800 Apr 29 11:26	10° $\approx$ 30'27	3°13'42	retrograde	5801 Apr 03 20:35	29° $\approx$ 55'58	
min. Earth dist.	5800 May 02 06:58	7° $\approx$ 35'21	0.62305 AU	evening set	5801 Apr 06 22:02	29° $\approx$ 04'28	
morning rise	5800 May 05 18:32	4° $\approx$ 31'51		inferior conj	5801 Apr 12 18:30	23° $\approx$ 36'45	3°29'40
direct	5800 May 12 14:06	2° $\approx$ 02'07		minimum elong	5801 Apr 12 19:02	23° $\approx$ 35'12	3°29'38
desc. node	5800 May 13 13:16	2° $\approx$ 04'56		min. Earth dist.	5801 Apr 15 01:25	20° $\approx$ 57'51	0.64280 AU
morning max el	5800 May 26 16:40	10° $\approx$ 03'21	27°53'05	morning rise	5801 Apr 18 15:10	17° $\approx$ 24'55	
	5800 Jun 11 05:26	0° $\approx$		direct	5801 Apr 25 09:51	14° $\approx$ 38'46	
	5800 Jun 28 06:33	0° $\approx$		desc. node	5801 Apr 30 10:19	15° $\approx$ 55'43	
morning set	5800 Jun 29 12:03	2° $\approx$ 28'33		morning max el	5801 May 09 01:47	22° $\approx$ 36'31	27°29'30
asc. node	5800 Jul 04 12:53	13° $\approx$ 00'24			5801 May 15 14:08	0° $\approx$	
max. Earth dist.	5800 Jul 05 01:08	14° $\approx$ 06'13	1.32339 AU		5801 Jun 04 11:22	0° $\approx$	
				morning set	5801 Jun 13 05:13	16° $\approx$ 14'56	
superior conj	5800 Jul 07 01:01	18° $\approx$ 25'41	0°25'46	max. Earth dist.	5801 Jun 18 01:04	26° $\approx$ 01'20	1.33219 AU
minimum elong	5800 Jul 06 23:51	18° $\approx$ 19'18	0°25'31		5801 Jun 19 22:37	0° $\approx$	
	5800 Jul 12 08:19	0° $\approx$					
evening rise	5800 Jul 13 22:12	3° $\approx$ 23'36		superior conj	5801 Jun 21 06:24	2° $\approx$ 48'35	-0°01'32
	5800 Jul 28 04:43	0° $\approx$		minimum elong	5801 Jun 21 06:28	2° $\approx$ 49'00	0°01'32
evening max el	5800 Aug 07 13:09	12° $\approx$ 59'30	24°08'51	behind sun begin	5801 Jun 21 01:04	2° $\approx$ 20'09	
desc. node	5800 Aug 09 12:33	14° $\approx$ 46'34		behind sun end	5801 Jun 21 11:53	3° $\approx$ 17'52	
retrograde	5800 Aug 21 07:53	19° $\approx$ 55'22		asc. node	5801 Jun 21 09:55	3° $\approx$ 07'24	
evening set	5800 Aug 26 01:43	19° $\approx$ 05'33		evening rise	5801 Jun 28 09:40	18° $\approx$ 05'38	
min. Earth dist.	5800 Aug 31 23:52	16° $\approx$ 09'20	0.56348 AU		5801 Jul 04 06:31	0° $\approx$	
inferior conj	5800 Sep 03 10:55	14° $\approx$ 37'51	-5°19'46	evening max el	5801 Jul 20 02:28	23° $\approx$ 19'17	22°30'55
minimum elong	5800 Sep 03 09:03	14° $\approx$ 40'45	5°19'41	desc. node	5801 Jul 27 09:33	28° $\approx$ 32'28	
morning rise	5800 Sep 11 18:48	10° $\approx$ 38'35		retrograde	5801 Aug 02 04:31	29° $\approx$ 49'51	
direct	5800 Sep 14 12:02	10° $\approx$ 19'16		evening set	5801 Aug 05 10:01	29° $\approx$ 26'57	
morning max el	5800 Sep 24 08:52	14° $\approx$ 56'02	19°46'22	min. Earth dist.	5801 Aug 13 09:44	25° $\approx$ 57'24	0.55131 AU
asc. node	5800 Sep 30 12:09	22° $\approx$ 21'55		inferior conj	5801 Aug 14 12:40	25° $\approx$ 19'12	-4°40'20
	5800 Oct 05 04:09	0° $\approx$		minimum elong	5801 Aug 14 04:45	25° $\approx$ 30'26	4°38'46
morning set	5800 Oct 12 02:29	13° $\approx$ 21'47		morning rise	5801 Aug 23 01:24	21° $\approx$ 29'36	
				direct	5801 Aug 26 04:31	21° $\approx$ 07'15	
superior conj	5800 Oct 19 22:40	29° $\approx$ 12'37	1°37'48	morning max el	5801 Sep 06 15:19	26° $\approx$ 27'56	21°07'47
minimum elong	5800 Oct 20 00:29	29° $\approx$ 21'35	1°37'43		5801 Sep 09 23:30	0° $\approx$	
	5800 Oct 20 08:14	0° $\approx$		asc. node	5801 Sep 17 09:12	10° $\approx$ 43'35	
max. Earth dist.	5800 Oct 25 21:12	10° $\approx$ 40'04	1.37347 AU	morning set	5801 Sep 26 10:38	28° $\approx$ 05'51	
evening rise	5800 Oct 29 15:32	17° $\approx$ 33'11			5801 Sep 27 08:36	0° $\approx$	
desc. node	5800 Nov 05 11:50	29° $\approx$ 19'11					
	5800 Nov 05 21:45	0° $\approx$		superior conj	5801 Oct 03 19:08	13° $\approx$ 27'26	1°42'55
	5800 Nov 26 14:37	0° $\approx$		minimum elong	5801 Oct 03 19:27	13° $\approx$ 29'00	1°42'55
evening max el	5800 Dec 04 08:00	8° $\approx$ 38'41	25°27'42	max. Earth dist.	5801 Oct 08 06:55	22° $\approx$ 33'18	1.35458 AU
retrograde	5800 Dec 16 12:01	15° $\approx$ 38'46		evening rise	5801 Oct 12 10:06	0° $\approx$ 32'18	
evening set	5800 Dec 22 09:17	13° $\approx$ 12'20			5801 Oct 12 03:15	0° $\approx$	
min. Earth dist.	5800 Dec 26 18:55	8° $\approx$ 21'59	0.67284 AU	desc. node	5801 Oct 23 08:51	19° $\approx$ 42'14	
asc. node	5800 Dec 27 11:23	7° $\approx$ 29'06			5801 Oct 30 00:12	0° $\approx$	
inferior conj	5800 Dec 28 00:23	6° $\approx$ 34'08	0°11'00	evening max el	5801 Nov 16 20:57	22° $\approx$ 22'02	26°29'51
minimum elong	5800 Dec 28 00:06	6° $\approx$ 34'02	0°10'54	retrograde	5801 Nov 29 18:26	29° $\approx$ 35'47	
transit middle	5800 Dec 28 00:06	6° $\approx$ 34'02	0°10'54	evening set	5801 Dec 06 04:35	27° $\approx$ 00'01	
transit begin	5800 Dec 27 22:02	6° $\approx$ 34'42		min. Earth dist.	5801 Dec 10 07:36	22° $\approx$ 44'45	0.66309 AU
transit end	5800 Dec 28 02:10	6° $\approx$ 34'23		inferior conj	5801 Dec 12 00:26	20° $\approx$ 41'51	-0°47'37
morning rise	5801 Jan 02 15:17	0° $\approx$ 35'21		minimum elong	5801 Dec 12 01:45	20° $\approx$ 37'53	0°47'02
	5801 Jan 04 11:07	30° $\approx$ 46'00		asc. node	5801 Dec 14 08:26	17° $\approx$ 59'57	
direct	5801 Jan 06 00:40	29° $\approx$ 46'00		morning rise	5801 Dec 17 23:37	14° $\approx$ 57'08	

direct	5801 Dec 20 22:53	14°♊07'30		asc. node	5802 Dec 01 05:29	29°♍24'10	
morning max el	5801 Dec 27 13:31	17°♊43'05	18°30'45	morning rise	5802 Dec 02 02:51	28°♍55'45	
	5802 Jan 05 20:41	0°♊		direct	5802 Dec 04 18:08	28°♍18'58	
morning set	5802 Jan 16 20:28	17°♊17'10			5802 Dec 09 04:49	0°♊	
desc. node	5802 Jan 19 08:08	21°♊14'08		morning max el	5802 Dec 11 05:10	1°♊44'45	18°01'22
	5802 Jan 24 21:06	0°♊		morning set	5802 Dec 29 00:34	28°♊25'33	
					5802 Dec 29 23:21	0°♊	
superior conj	5802 Feb 01 19:00	12°♊25'51	-1°25'14	desc. node	5803 Jan 06 05:07	11°♊53'00	
minimum elong	5802 Feb 01 09:41	11°♊49'20	1°24'12				
max. Earth dist.	5802 Feb 02 02:26	12°♊55'01	1.45365 AU	superior conj	5803 Jan 12 03:28	21°♊24'38	-0°40'45
	5802 Feb 12 23:29	0°♊		minimum elong	5803 Jan 11 22:31	21°♊04'55	0°40'03
evening rise	5802 Feb 17 14:48	7°♊20'05		max. Earth dist.	5803 Jan 15 22:14	27°♊23'45	1.45121 AU
greatest brilliancy	5802 Feb 26 20:36	21°♊57'27	-0.8m		5803 Jan 17 14:00	0°♊	
	5802 Mar 04 02:55	0°♊		evening rise	5803 Jan 28 09:28	16°♊48'09	
evening max el	5802 Mar 11 19:55	9°♊57'38	18°58'11		5803 Feb 05 23:56	0°♊	
asc. node	5802 Mar 12 07:40	10°♊26'47		greatest brilliancy	5803 Feb 11 05:39	7°♊52'49	-0.7m
retrograde	5802 Mar 18 15:21	13°♊46'55		evening max el	5803 Feb 23 01:46	23°♊31'29	19°48'42
evening set	5802 Mar 21 23:46	12°♊41'54		asc. node	5803 Feb 27 04:42	26°♊52'11	
inferior conj	5802 Mar 27 13:28	6°♊57'23	3°28'12	retrograde	5803 Mar 02 13:06	27°♊51'00	
minimum elong	5802 Mar 27 12:37	7°♊00'03	3°28'09	evening set	5803 Mar 06 05:25	26°♊31'49	
min. Earth dist.	5802 Mar 29 04:45	4°♊53'46	0.65887 AU	inferior conj	5803 Mar 11 15:08	20°♊32'30	3°13'32
morning rise	5802 Apr 02 01:04	0°♊42'33		minimum elong	5803 Mar 11 13:20	20°♊38'32	3°13'15
	5802 Apr 02 21:42	30°♋		min. Earth dist.	5803 Mar 12 15:41	19°♋10'37	0.67061 AU
direct	5802 Apr 08 12:18	27°♋53'35		morning rise	5803 Mar 16 21:02	14°♋17'20	
	5802 Apr 14 19:04	0°♊		direct	5803 Mar 22 20:33	11°♋37'08	
desc. node	5802 Apr 17 07:22	1°♊47'00		morning max el	5803 Apr 03 21:13	18°♋48'29	25°19'46
morning max el	5802 Apr 21 11:49	5°♊35'05	26°35'27	desc. node	5803 Apr 04 04:23	19°♋06'47	
	5802 May 10 05:07	0°♋			5803 Apr 13 08:26	0°♊	
morning set	5802 May 27 11:04	29°♋25'02			5803 May 03 06:46	0°♋	
	5802 May 27 18:27	0°♋		morning set	5803 May 10 01:15	11°♋47'00	
max. Earth dist.	5802 May 31 14:39	7°♋27'09	1.34573 AU	max. Earth dist.	5803 May 13 17:35	18°♋33'13	1.36365 AU
superior conj	5802 Jun 05 05:30	16°♋48'36	-0°31'01	superior conj	5803 May 19 19:34	0°♋18'23	-1°01'16
minimum elong	5802 Jun 05 07:12	16°♋57'23	0°30'42	minimum elong	5803 May 19 23:02	0°♋35'38	1°00'41
asc. node	5802 Jun 08 06:57	23°♋11'11			5803 May 19 15:52	0°♋	
	5802 Jun 11 12:52	0°♋		asc. node	5803 May 26 03:58	13°♋07'57	
evening rise	5802 Jun 12 19:01	2°♋37'11		evening rise	5803 May 28 00:04	16°♋51'56	
	5802 Jun 28 11:17	0°♋			5803 Jun 03 18:28	0°♋	
evening max el	5802 Jul 01 23:46	3°♋56'39	21°00'25	evening max el	5803 Jun 14 09:30	15°♋13'22	19°46'43
retrograde	5802 Jul 13 17:03	9°♋43'12		retrograde	5803 Jun 24 09:47	20°♋07'46	
desc. node	5802 Jul 14 06:34	9°♋42'26		evening set	5803 Jun 26 07:20	19°♋57'57	
evening set	5802 Jul 15 21:54	9°♋31'46		desc. node	5803 Jul 01 03:36	18°♋15'36	
inferior conj	5802 Jul 25 05:39	5°♋34'22	-3°10'11	inferior conj	5803 Jul 05 04:32	15°♋55'49	-1°12'52
minimum elong	5802 Jul 24 21:21	5°♋46'04	3°07'31	minimum elong	5803 Jul 05 01:11	16°♋01'00	1°11'37
min. Earth dist.	5802 Jul 25 19:54	5°♋14'15	0.54775 AU	min. Earth dist.	5803 Jul 07 08:21	14°♋35'59	0.55382 AU
morning rise	5802 Aug 02 21:00	1°♋36'23		morning rise	5803 Jul 13 16:56	11°♋29'43	
direct	5802 Aug 06 13:24	1°♋07'16		direct	5803 Jul 18 03:39	10°♋46'08	
morning max el	5802 Aug 19 10:47	7°♋16'10	22°46'06	morning max el	5803 Aug 01 00:41	17°♋39'14	24°30'31
asc. node	5802 Sep 04 06:15	29°♋41'01			5803 Aug 11 03:51	0°♋	
	5802 Sep 04 10:19	0°♋		asc. node	5803 Aug 22 03:16	19°♋05'06	
morning set	5802 Sep 10 21:27	12°♋56'44		morning set	5803 Aug 26 09:12	27°♋49'23	
					5803 Aug 27 09:42	0°♋	
superior conj	5802 Sep 17 22:57	28°♋02'58	1°41'01	superior conj	5803 Sep 02 07:31	12°♋51'19	1°33'06
minimum elong	5802 Sep 17 22:00	27°♋57'52	1°40'58	minimum elong	5803 Sep 02 05:41	12°♋41'22	1°32'55
	5802 Sep 18 20:58	0°♋		max. Earth dist.	5803 Sep 04 03:17	16°♋48'46	1.32807 AU
max. Earth dist.	5802 Sep 21 00:56	4°♋33'01	1.33923 AU	evening rise	5803 Sep 09 14:36	28°♋19'17	
evening rise	5802 Sep 25 19:01	14°♋10'57			5803 Sep 10 10:29	0°♋	
	5802 Oct 04 08:12	0°♋		desc. node	5803 Sep 27 02:50	29°♋23'16	
desc. node	5802 Oct 10 05:50	9°♋46'18			5803 Sep 27 12:37	0°♋	
	5802 Oct 24 20:54	0°♋		evening max el	5803 Oct 12 20:41	19°♋02'55	27°27'32
evening max el	5802 Oct 30 09:44	5°♋54'10	27°12'03	retrograde	5803 Oct 26 13:04	26°♋19'37	
retrograde	5802 Nov 12 18:55	13°♋12'13		evening set	5803 Nov 02 16:28	23°♋45'54	
evening set	5802 Nov 19 15:55	10°♋33'01		min. Earth dist.	5803 Nov 06 08:45	20°♋37'31	0.63330 AU
min. Earth dist.	5802 Nov 23 12:52	6°♋52'44	0.64986 AU	inferior conj	5803 Nov 09 01:11	17°♋57'21	-2°55'18
inferior conj	5802 Nov 25 17:34	4°♋27'13	-1°50'32	minimum elong	5803 Nov 09 06:21	17°♋44'29	2°53'25
minimum elong	5802 Nov 25 20:48	4°♋18'17	1°49'11	morning rise	5803 Nov 15 21:53	12°♋42'24	
	5802 Nov 30 08:02	30°♌					

direct	5803 Nov 18 07:36	12° $\mathbb{M}$ 14'48		min. Earth dist.	5804 Oct 18 18:10	3° $\mathbb{M}$ 47'13	0.61395 AU
asc. node	5803 Nov 18 02:31	12° $\mathbb{M}$ 15'02		inferior conj	5804 Oct 21 20:10	1° $\mathbb{M}$ 04'30	-3°57'40
morning max el	5803 Nov 24 22:10	15° $\mathbb{M}$ 39'50	17°49'20	minimum elong	5804 Oct 22 02:36	0° $\mathbb{M}$ 50'17	3°55'49
	5803 Dec 05 00:07	0° $\mathbb{A}$			5804 Oct 23 01:47	30° $\mathbb{R}$ $\mathbb{A}$	
morning set	5803 Dec 11 06:16	10° $\mathbb{A}$ 47'53		morning rise	5804 Oct 29 04:42	26° $\mathbb{A}$ 09'12	
	5803 Dec 22 12:01	0° $\mathbb{B}$		direct	5804 Oct 31 11:45	25° $\mathbb{A}$ 47'22	
				asc. node	5804 Nov 03 23:33	26° $\mathbb{A}$ 40'03	
superior conj	5803 Dec 23 09:11	1° $\mathbb{B}$ 27'40	0°05'01	morning max el	5804 Nov 07 13:19	29° $\mathbb{A}$ 20'17	17°55'41
minimum elong	5803 Dec 23 09:42	1° $\mathbb{B}$ 29'52	0°04'58		5804 Nov 08 04:55	0° $\mathbb{M}$	
behind sun begin	5803 Dec 23 00:38	0° $\mathbb{B}$ 52'18		morning set	5804 Nov 23 07:09	24° $\mathbb{M}$ 04'57	
behind sun end	5803 Dec 23 18:47	2° $\mathbb{B}$ 07'20			5804 Nov 26 12:58	0° $\mathbb{A}$	
desc. node	5803 Dec 24 02:06	2° $\mathbb{B}$ 37'30					
max. Earth dist.	5803 Dec 29 15:53	11° $\mathbb{B}$ 40'14	1.44166 AU	superior conj	5804 Dec 03 17:21	12° $\mathbb{A}$ 47'56	0°43'47
evening rise	5804 Jan 07 19:41	26° $\mathbb{B}$ 02'11		minimum elong	5804 Dec 03 20:46	13° $\mathbb{A}$ 02'45	0°43'20
	5804 Jan 10 09:43	0° $\mathbb{A}$		desc. node	5804 Dec 09 23:08	23° $\mathbb{A}$ 24'32	
	5804 Jan 31 02:01	0° $\mathbb{H}$		max. Earth dist.	5804 Dec 11 05:07	25° $\mathbb{A}$ 28'31	1.42619 AU
evening max el	5804 Feb 06 02:07	7° $\mathbb{H}$ 05'59	20°53'08		5804 Dec 13 23:43	0° $\mathbb{B}$	
retrograde	5804 Feb 14 11:26	12° $\mathbb{H}$ 03'10		evening rise	5804 Dec 17 13:25	5° $\mathbb{B}$ 41'56	
asc. node	5804 Feb 14 01:44	12° $\mathbb{H}$ 02'18			5805 Jan 02 17:04	0° $\mathbb{A}$	
evening set	5804 Feb 18 12:55	10° $\mathbb{H}$ 29'14		evening max el	5805 Jan 18 21:15	20° $\mathbb{A}$ 42'34	22°07'42
inferior conj	5804 Feb 23 20:58	4° $\mathbb{H}$ 17'44	2°48'10	retrograde	5805 Jan 28 08:25	26° $\mathbb{A}$ 20'08	
minimum elong	5804 Feb 23 18:40	4° $\mathbb{H}$ 25'40	2°47'37	asc. node	5805 Jan 30 22:47	25° $\mathbb{A}$ 44'39	
min. Earth dist.	5804 Feb 24 08:13	3° $\mathbb{H}$ 38'57	0.67808 AU	evening set	5805 Feb 01 20:39	24° $\mathbb{A}$ 30'57	
	5804 Feb 27 03:37	30° $\mathbb{R}$ $\mathbb{A}$		inferior conj	5805 Feb 07 04:52	18° $\mathbb{A}$ 10'31	2°13'48
morning rise	5804 Feb 29 00:13	28° $\mathbb{A}$ 03'59		minimum elong	5805 Feb 07 02:32	18° $\mathbb{A}$ 18'38	2°13'04
direct	5804 Mar 05 09:52	25° $\mathbb{A}$ 40'35		min. Earth dist.	5805 Feb 07 04:05	18° $\mathbb{A}$ 13'15	0.68150 AU
	5804 Mar 13 23:44	0° $\mathbb{H}$		morning rise	5805 Feb 12 08:15	11° $\mathbb{A}$ 59'46	
morning max el	5804 Mar 16 06:00	2° $\mathbb{H}$ 08'43	23°52'22	direct	5805 Feb 17 03:26	9° $\mathbb{A}$ 57'43	
desc. node	5804 Mar 21 01:24	7° $\mathbb{H}$ 29'38		morning max el	5805 Feb 26 16:44	15° $\mathbb{A}$ 35'24	22°23'18
	5804 Apr 06 09:48	0° $\mathbb{Y}$		desc. node	5805 Mar 07 22:25	26° $\mathbb{A}$ 38'05	
morning set	5804 Apr 20 18:03	23° $\mathbb{Y}$ 04'40			5805 Mar 10 10:03	0° $\mathbb{H}$	
max. Earth dist.	5804 Apr 24 13:31	29° $\mathbb{Y}$ 43'22	1.38477 AU		5805 Mar 30 10:17	0° $\mathbb{Y}$	
	5804 Apr 24 17:16	0° $\mathbb{B}$		morning set	5805 Apr 01 07:52	3° $\mathbb{Y}$ 04'24	
				max. Earth dist.	5805 Apr 06 09:58	11° $\mathbb{Y}$ 30'59	1.40683 AU
superior conj	5804 May 01 20:56	13° $\mathbb{B}$ 07'45	-1°30'02	superior conj	5805 Apr 14 05:14	25° $\mathbb{Y}$ 06'45	-1°53'54
minimum elong	5804 May 02 01:50	13° $\mathbb{B}$ 30'55	1°29'24	minimum elong	5805 Apr 14 10:13	25° $\mathbb{Y}$ 29'05	1°53'29
evening rise	5804 May 10 22:06	0° $\mathbb{H}$ 41'22			5805 Apr 16 21:58	0° $\mathbb{B}$	
	5804 May 10 13:39	0° $\mathbb{H}$		evening rise	5805 Apr 24 09:49	13° $\mathbb{B}$ 57'16	
asc. node	5804 May 12 00:59	2° $\mathbb{H}$ 52'37		asc. node	5805 Apr 28 22:02	22° $\mathbb{B}$ 20'22	
evening max el	5804 May 27 07:03	27° $\mathbb{H}$ 12'10	18°53'12		5805 May 03 07:19	0° $\mathbb{H}$	
	5804 May 30 21:51	0° $\mathbb{B}$		evening max el	5805 May 10 13:19	9° $\mathbb{H}$ 46'42	18°20'04
retrograde	5804 Jun 04 17:26	1° $\mathbb{B}$ 20'43		retrograde	5805 May 17 19:56	13° $\mathbb{H}$ 24'16	
evening set	5804 Jun 06 18:40	1° $\mathbb{B}$ 06'58		evening set	5805 May 20 04:18	13° $\mathbb{H}$ 02'32	
	5804 Jun 09 20:18	30° $\mathbb{R}$ $\mathbb{H}$		inferior conj	5805 May 27 11:00	8° $\mathbb{H}$ 24'51	2°01'40
inferior conj	5804 Jun 14 20:58	26° $\mathbb{H}$ 49'19	0°37'50	minimum elong	5805 May 27 14:22	8° $\mathbb{H}$ 17'49	2°00'39
minimum elong	5804 Jun 14 22:26	26° $\mathbb{H}$ 46'42	0°37'17	min. Earth dist.	5805 May 30 21:23	5° $\mathbb{H}$ 33'48	0.58848 AU
desc. node	5804 Jun 17 00:38	25° $\mathbb{H}$ 16'42		morning rise	5805 Jun 03 21:20	2° $\mathbb{H}$ 50'26	
min. Earth dist.	5804 Jun 18 00:22	24° $\mathbb{H}$ 35'19	0.56836 AU	desc. node	5805 Jun 03 21:39	2° $\mathbb{H}$ 49'59	
morning rise	5804 Jun 22 22:49	21° $\mathbb{H}$ 46'31		direct	5805 Jun 10 01:52	1° $\mathbb{H}$ 07'52	
direct	5804 Jun 28 07:39	20° $\mathbb{H}$ 37'13		morning max el	5805 Jun 24 11:09	8° $\mathbb{H}$ 54'40	27°15'20
morning max el	5804 Jul 12 15:21	28° $\mathbb{H}$ 03'35	26°05'24		5805 Jul 10 12:47	0° $\mathbb{B}$	
	5804 Jul 14 13:20	0° $\mathbb{B}$		morning set	5805 Jul 25 04:57	27° $\mathbb{B}$ 17'23	
	5804 Aug 03 14:07	0° $\mathbb{Q}$		asc. node	5805 Jul 25 21:19	28° $\mathbb{B}$ 43'37	
asc. node	5804 Aug 08 00:17	8° $\mathbb{Q}$ 47'50			5805 Jul 26 11:42	0° $\mathbb{Q}$	
morning set	5804 Aug 09 20:15	12° $\mathbb{Q}$ 37'54					
superior conj	5804 Aug 16 18:39	27° $\mathbb{Q}$ 44'51	1°19'55	superior conj	5805 Aug 01 06:30	12° $\mathbb{Q}$ 37'32	1°02'05
minimum elong	5804 Aug 16 16:23	27° $\mathbb{Q}$ 32'26	1°19'36	minimum elong	5805 Aug 01 04:17	12° $\mathbb{Q}$ 25'19	1°01'41
max. Earth dist.	5804 Aug 17 11:32	29° $\mathbb{Q}$ 17'57	1.32122 AU	max. Earth dist.	5805 Jul 31 22:30	11° $\mathbb{Q}$ 53'20	1.31869 AU
	5804 Aug 17 19:10	0° $\mathbb{H}$		evening rise	5805 Aug 08 01:46	27° $\mathbb{Q}$ 28'49	
evening rise	5804 Aug 23 17:41	12° $\mathbb{H}$ 47'42			5805 Aug 09 06:29	0° $\mathbb{H}$	
	5804 Sep 01 13:19	0° $\mathbb{B}$			5805 Aug 26 02:38	0° $\mathbb{B}$	
desc. node	5804 Sep 12 23:52	18° $\mathbb{B}$ 21'44		desc. node	5805 Aug 30 20:55	6° $\mathbb{B}$ 25'55	
	5804 Sep 22 12:39	0° $\mathbb{M}$		evening max el	5805 Sep 06 04:00	13° $\mathbb{B}$ 22'16	26°21'36
evening max el	5804 Sep 24 03:33	1° $\mathbb{M}$ 35'40	27°11'20	retrograde	5805 Sep 20 02:49	20° $\mathbb{B}$ 29'50	
retrograde	5804 Oct 08 00:16	8° $\mathbb{M}$ 48'19		evening set	5805 Sep 26 17:21	18° $\mathbb{B}$ 42'36	
evening set	5804 Oct 15 02:32	6° $\mathbb{M}$ 31'48		min. Earth dist.	5805 Sep 30 17:24	16° $\mathbb{B}$ 07'47	0.59323 AU

inferior conj	5805 Oct 03 22:59	13°♄39'01	-4°49'59	min. Earth dist.	5806 Sep 12 08:20	27°♍28'38	0.57341 AU
minimum elong	5805 Oct 04 04:47	13°♄27'49	4°48'56	inferior conj	5806 Sep 15 06:33	25°♍31'48	-5°19'36
morning rise	5805 Oct 11 18:25	9°♄05'49		minimum elong	5806 Sep 15 08:25	25°♍28'42	5°19'31
direct	5805 Oct 14 02:28	8°♄46'45		morning rise	5806 Sep 23 10:40	21°♍21'19	
asc. node	5805 Oct 21 20:36	12°♄30'08		direct	5806 Sep 25 23:46	21°♍02'30	
morning max el	5805 Oct 21 23:11	12°♄36'19	18°21'45	morning max el	5806 Oct 05 00:19	25°♍18'29	19°09'05
	5805 Nov 02 15:37	0°♍		asc. node	5806 Oct 08 17:38	29°♍30'50	
morning set	5805 Nov 06 21:30	7°♍59'53			5806 Oct 09 02:28	0°♄	
				morning set	5806 Oct 21 21:05	22°♄20'49	
superior conj	5805 Nov 16 00:55	25°♍15'33	1°12'32		5806 Oct 25 17:24	0°♍	
minimum elong	5805 Nov 16 04:38	25°♍32'39	1°12'07				
	5805 Nov 18 15:34	0°♄		superior conj	5806 Oct 30 02:34	8°♍35'56	1°31'12
max. Earth dist.	5805 Nov 23 13:37	8°♄38'12	1.40669 AU	minimum elong	5806 Oct 30 05:14	8°♍48'47	1°31'00
desc. node	5805 Nov 26 20:10	14°♄10'12		max. Earth dist.	5806 Nov 05 19:07	21°♍07'19	1.38552 AU
evening rise	5805 Nov 28 02:18	16°♄15'01		evening rise	5806 Nov 09 13:56	27°♍49'36	
	5805 Dec 06 18:06	0°♄			5806 Nov 10 20:12	0°♄	
	5805 Dec 28 11:57	0°♄		desc. node	5806 Nov 13 17:13	4°♄50'52	
evening max el	5806 Jan 01 12:30	4°♄22'32	23°27'21		5806 Nov 30 05:37	0°♄	
retrograde	5806 Jan 12 02:34	10°♄37'50		evening max el	5806 Dec 15 01:42	18°♄06'10	24°45'44
evening set	5806 Jan 17 03:00	8°♄33'14		retrograde	5806 Dec 26 16:44	24°♄52'13	
asc. node	5806 Jan 17 19:50	7°♄55'20		evening set	5807 Jan 01 06:27	22°♄33'01	
min. Earth dist.	5806 Jan 22 00:52	2°♄49'00	0.68110 AU	asc. node	5807 Jan 04 16:52	18°♄51'22	
inferior conj	5806 Jan 22 12:56	2°♄07'37	1°31'32	min. Earth dist.	5807 Jan 05 20:16	17°♄22'58	0.67699 AU
minimum elong	5806 Jan 22 11:02	2°♄14'09	1°30'51	inferior conj	5807 Jan 06 19:22	16°♄06'27	0°42'15
	5806 Jan 24 02:48	30°♄		minimum elong	5807 Jan 06 18:22	16°♄09'47	0°41'52
morning rise	5806 Jan 27 18:59	26°♄01'35		morning rise	5807 Jan 12 06:26	10°♄07'03	
direct	5806 Feb 01 00:09	24°♄22'19		direct	5807 Jan 15 22:37	8°♄49'30	
morning max el	5806 Feb 09 09:05	29°♄12'01	21°00'52	morning max el	5807 Jan 23 09:21	13°♄01'00	19°50'32
	5806 Feb 10 03:48	0°♄			5807 Feb 05 09:16	0°♄	
desc. node	5806 Feb 22 19:27	16°♄19'10		greatest brilliancy	5807 Feb 05 13:55	0°♄17'06	-0.6m
	5806 Mar 04 02:07	0°♄		desc. node	5807 Feb 09 16:29	6°♄24'07	
morning set	5806 Mar 11 18:08	11°♄47'59		morning set	5807 Feb 18 14:34	20°♄00'10	
max. Earth dist.	5806 Mar 19 13:05	24°♄14'34	1.42697 AU		5807 Feb 25 01:01	0°♄	
	5806 Mar 23 00:59	0°♄		max. Earth dist.	5807 Mar 02 00:06	7°♄49'57	1.44252 AU
superior conj	5806 Mar 26 15:32	6°♄03'55	-2°08'03	superior conj	5807 Mar 07 00:29	15°♄53'22	-2°06'42
minimum elong	5806 Mar 26 17:49	6°♄13'36	2°07'59	minimum elong	5807 Mar 06 20:49	15°♄38'30	2°06'36
evening rise	5806 Apr 07 07:07	26°♄30'01			5807 Mar 15 13:35	0°♄	
	5806 Apr 09 05:59	0°♄		evening rise	5807 Mar 20 09:36	8°♄11'09	
asc. node	5806 Apr 15 19:04	11°♄24'52		asc. node	5807 Apr 02 16:06	29°♄58'38	
evening max el	5806 Apr 24 00:35	22°♄46'53	18°06'42		5807 Apr 02 16:29	0°♄	
retrograde	5806 Apr 30 15:22	26°♄09'57		evening max el	5807 Apr 07 13:31	6°♄03'47	18°12'22
evening set	5806 May 03 06:43	25°♄37'40		retrograde	5807 Apr 13 23:12	9°♄27'20	
inferior conj	5806 May 09 20:55	20°♄39'21	2°55'14	evening set	5807 Apr 16 20:58	8°♄43'04	
minimum elong	5806 May 09 23:48	20°♄32'20	2°54'39	inferior conj	5807 Apr 22 22:46	3°♄25'22	3°23'03
min. Earth dist.	5806 May 13 01:21	17°♄35'33	0.61061 AU	minimum elong	5807 Apr 23 00:12	3°♄21'25	3°22'54
morning rise	5806 May 16 14:48	14°♄43'32		min. Earth dist.	5807 Apr 25 14:17	0°♄32'11	0.63180 AU
desc. node	5806 May 21 18:41	12°♄35'48			5807 Apr 26 02:39	30°♄	
direct	5806 May 23 07:29	12°♄28'53		morning rise	5807 Apr 29 02:14	27°♄17'17	
morning max el	5806 Jun 06 13:26	20°♄26'29	27°50'22	direct	5807 May 05 22:14	24°♄39'17	
	5806 Jun 14 18:34	0°♄		desc. node	5807 May 08 15:44	25°♄01'56	
	5806 Jul 03 11:17	0°♄			5807 May 17 00:34	0°♄	
morning set	5806 Jul 09 09:29	11°♄42'12		morning max el	5807 May 19 20:55	2°♄39'47	27°47'27
asc. node	5806 Jul 12 18:21	18°♄47'29			5807 Jun 09 03:36	0°♄	
max. Earth dist.	5806 Jul 15 08:28	24°♄23'43	1.32041 AU	morning set	5807 Jun 23 07:32	25°♄44'38	
					5807 Jun 25 09:48	0°♄	
superior conj	5806 Jul 16 17:18	27°♄23'38	0°40'07	max. Earth dist.	5807 Jun 28 13:22	6°♄35'27	1.32653 AU
minimum elong	5806 Jul 16 15:37	27°♄14'21	0°39'46	asc. node	5807 Jun 29 15:22	8°♄54'15	
	5806 Jul 17 21:44	0°♄					
evening rise	5806 Jul 23 12:42	12°♄15'45		superior conj	5807 Jul 01 01:10	11°♄56'11	0°14'34
	5806 Aug 01 11:07	0°♄		minimum elong	5807 Jul 01 00:29	11°♄52'25	0°14'23
desc. node	5806 Aug 17 17:56	23°♄14'16		behind sun begin	5807 Jun 30 22:11	11°♄40'01	
evening max el	5806 Aug 18 20:52	24°♄20'48	25°02'51	behind sun end	5807 Jul 01 02:46	12°♄04'50	
	5806 Aug 26 19:00	0°♄		evening rise	5807 Jul 08 00:28	27°♄01'02	
retrograde	5806 Sep 01 18:37	1°♄22'17			5807 Jul 09 10:23	0°♄	
evening set	5806 Sep 07 08:26	0°♄11'40			5807 Jul 27 01:43	0°♄	
	5806 Sep 07 19:26	30°♄		evening max el	5807 Jul 31 09:03	4°♄44'39	23°27'11

desc. node	5807 Aug 04 14:58	8°  16'33		evening rise	5808 Jun 15 23:39	0° 	
retrograde	5807 Aug 13 22:16	11°  32'17			5808 Jun 21 11:16	11°  39'06	
evening set	5807 Aug 18 00:36	10°  55'29			5808 Jun 30 22:06	0° 	
min. Earth dist.	5807 Aug 24 18:35	7°  46'56	0.55742 AU	evening max el	5808 Jul 12 00:40	15°  07'08	21°50'49
inferior conj	5807 Aug 26 17:59	6°  36'53	-5°09'37	desc. node	5808 Jul 21 11:58	20°  058'49	
minimum elong	5807 Aug 26 13:12	6°  43'58	5°09'06	retrograde	5808 Jul 24 14:53	21°  021'45	
morning rise	5807 Sep 04 04:12	2°  43'56		evening set	5808 Jul 27 07:35	21°  005'25	
direct	5807 Sep 07 01:28	2°  23'35		min. Earth dist.	5808 Aug 05 04:20	17°  017'19	0.54858 AU
morning max el	5807 Sep 17 13:56	7°  17'17	20°18'30	inferior conj	5808 Aug 05 14:20	17°  003'17	-4°07'30
asc. node	5807 Sep 25 14:41	17°  26'24		minimum elong	5808 Aug 05 05:23	17°  015'50	4°05'12
	5807 Oct 02 15:25	0° 		morning rise	5808 Aug 14 04:37	13°  012'45	
morning set	5807 Oct 06 02:47	6°  58'12		direct	5808 Aug 17 12:33	12°  048'23	
				morning max el	5808 Aug 29 15:24	18°  029'36	21°48'04
superior conj	5807 Oct 13 17:20	22°  534'16	1°40'54		5808 Sep 07 20:24	0° 	
minimum elong	5807 Oct 13 18:29	22°  540'06	1°40'52	asc. node	5808 Sep 11 11:42	6°  004'03	
	5807 Oct 17 11:04	0° 		morning set	5808 Sep 19 12:16	21°  045'28	
max. Earth dist.	5807 Oct 19 01:39	3°  06'30	1.36511 AU		5808 Sep 23 09:57	0° 	
evening rise	5807 Oct 22 22:16	10°  00'07		superior conj	5808 Sep 26 17:17	6°  59'00	1°42'54
desc. node	5807 Oct 31 14:14	25°  021'37		minimum elong	5808 Sep 26 17:01	6°  57'35	1°42'54
	5807 Nov 03 11:18	0° 		max. Earth dist.	5808 Sep 30 14:20	14°  58'52	1.34753 AU
	5807 Nov 25 18:36	0° 		evening rise	5808 Oct 04 23:24	23°  537'03	
evening max el	5807 Nov 27 14:20	1°  50'30	25°55'57		5808 Oct 08 09:04	0° 	
retrograde	5807 Dec 10 02:16	8°  57'35		desc. node	5808 Oct 17 11:14	15°  0037'13	
evening set	5807 Dec 16 05:18	6°  526'19			5808 Oct 27 02:17	0° 	
min. Earth dist.	5807 Dec 20 11:58	1°  51'08	0.66920 AU	evening max el	5808 Nov 09 03:06	15°  529'33	26°50'34
inferior conj	5807 Dec 21 22:19	0°  503'31	-0°13'15	retrograde	5808 Nov 22 06:25	22°  546'56	
minimum elong	5807 Dec 21 22:39	0°  502'26	0°13'05	evening set	5808 Nov 28 21:32	20°  508'32	
transit middle	5807 Dec 21 22:39	0°  502'26	0°13'05	min. Earth dist.	5808 Dec 02 21:46	16°  508'23	0.65788 AU
transit begin	5807 Dec 21 21:00	0° 		inferior conj	5808 Dec 04 19:42	13°  544'44	-1°13'55
transit end	5807 Dec 22 00:19	29°  57'14		minimum elong	5808 Dec 04 21:48	13°  548'37	1°13'00
	5807 Dec 21 23:26	30°  08'57		asc. node	5808 Dec 08 10:58	10°  502'25	
asc. node	5807 Dec 22 13:55	29°  57'14		morning rise	5808 Dec 10 23:01	8°  515'25	
morning rise	5807 Dec 27 16:31	24°  57'12		direct	5808 Dec 13 18:29	7°  531'55	
direct	5807 Dec 30 21:22	23°  57'14		morning max el	5808 Dec 20 06:53	11°  502'24	18°16'06
morning max el	5808 Jan 06 17:17	26°  59'48	18°55'13		5809 Jan 02 16:41	0° 	
	5808 Jan 09 10:09	0° 		morning set	5809 Jan 08 09:10	9°  511'14	
desc. node	5808 Jan 27 13:31	26°  546'17		desc. node	5809 Jan 13 10:30	17°  520'06	
morning set	5808 Jan 28 22:06	28°  53'31			5809 Jan 21 09:40	0° 	
	5808 Jan 29 15:07	0° 		superior conj	5809 Jan 23 14:58	3°  529'49	-1°07'14
max. Earth dist.	5808 Feb 12 16:39	21°  59'57	1.45163 AU	minimum elong	5809 Jan 23 06:58	2°  58'21	1°06'13
superior conj	5808 Feb 14 11:27	24°  548'13	-1°45'44	max. Earth dist.	5809 Jan 25 11:34	6°  524'50	1.45348 AU
minimum elong	5808 Feb 14 02:26	24°  512'45	1°44'58	evening rise	5809 Feb 08 18:46	28°  545'54	
	5808 Feb 17 18:26	0° 			5809 Feb 09 13:44	0° 	
evening rise	5808 Feb 29 13:37	18°  55'38		greatest brilliancy	5809 Feb 20 04:47	16°  530'35	-0.7m
	5808 Mar 07 09:15	0° 			5809 Mar 01 17:04	0° 	
asc. node	5808 Mar 19 13:08	17°  52'38		evening max el	5809 Mar 04 09:55	3°  503'36	19°17'49
evening max el	5808 Mar 21 01:24	19°  531'19	18°36'25	asc. node	5809 Mar 06 10:11	4°  554'13	
retrograde	5808 Mar 27 15:06	23°  508'13		retrograde	5809 Mar 11 11:29	7°  504'57	
evening set	5808 Mar 30 19:22	22°  511'08		evening set	5809 Mar 14 23:01	5°  554'12	
inferior conj	5808 Apr 05 12:33	16°  535'52	3°30'52	inferior conj	5809 Mar 20 10:43	0°  503'13	3°23'24
minimum elong	5808 Apr 05 12:27	16°  536'08	3°30'52	minimum elong	5809 Mar 20 09:25	0°  507'27	3°23'16
min. Earth dist.	5808 Apr 07 12:44	14°  510'43	0.65006 AU		5809 Mar 20 11:43	30°  08'57	
morning rise	5808 Apr 11 04:54	10°  522'01		min. Earth dist.	5809 Mar 21 19:39	28°  516'36	0.66438 AU
direct	5808 Apr 17 20:53	7°  533'14		morning rise	5809 Mar 25 19:28	23°  547'45	
desc. node	5808 Apr 24 12:45	9°  548'15		direct	5809 Apr 01 02:06	21°  501'01	
morning max el	5808 May 01 07:00	15°  526'23	27°09'53	desc. node	5809 Apr 11 09:47	26°  520'21	
	5808 May 13 05:30	0° 		morning max el	5809 Apr 13 16:51	28°  532'19	26°05'14
	5808 May 31 21:39	0° 			5809 Apr 15 02:30	0° 	
morning set	5808 Jun 05 20:20	9°  516'58		morning set	5809 May 07 00:06	0° 	
max. Earth dist.	5808 Jun 10 09:18	18°  518'42	1.33733 AU		5809 May 19 20:06	22°  507'54	
superior conj	5808 Jun 14 04:09	26°  509'50	-0°13'50	max. Earth dist.	5809 May 23 17:46	29°  531'43	1.35282 AU
minimum elong	5808 Jun 14 04:52	26°  513'40	0°13'43		5809 May 23 23:36	0° 	
behind sun begin	5808 Jun 14 01:58	25°  518'22		superior conj	5809 May 28 23:44	9°  517'24	-0°43'53
behind sun end	5808 Jun 14 07:47	26°  529'00		minimum elong	5809 May 29 02:12	10°  509'53	0°43'26
asc. node	5808 Jun 15 12:24	29°  500'16					



asc. node	5809 Jun 02 09:25	19°II01'12		superior conj	5810 May 12 08:53	23°811'04	-1°13'51
evening rise	5809 Jun 05 19:01	26°II03'30		minimum elong	5810 May 12 13:03	23°831'20	1°13'12
	5809 Jun 07 17:24	0°☿			5810 May 15 19:55	0°II	
evening max el	5809 Jun 24 03:03	25°☿59'25	20°26'45	asc. node	5810 May 20 06:27	8°II53'08	
	5809 Jun 29 12:31	0°♌		evening rise	5810 May 20 21:25	10°II07'55	
retrograde	5809 Jul 05 03:26	1°♌23'39			5810 May 31 18:29	0°☿	
evening set	5809 Jul 07 03:02	1°♌13'53		evening max el	5810 Jun 06 18:11	7°☿34'25	19°21'26
desc. node	5809 Jul 08 08:58	0°♌58'14		retrograde	5810 Jun 16 01:03	12°☿07'16	
	5809 Jul 11 04:02	30°♌☿		evening set	5810 Jun 17 23:35	11°☿56'14	
inferior conj	5809 Jul 16 07:58	27°☿16'38	-2°21'41	desc. node	5810 Jun 25 06:01	8°☿39'02	
minimum elong	5809 Jul 16 01:25	27°☿26'08	2°19'21	inferior conj	5810 Jun 26 13:14	7°☿48'36	-0°23'23
min. Earth dist.	5809 Jul 17 15:38	26°☿30'39	0.54912 AU	minimum elong	5810 Jun 26 12:13	7°☿50'17	0°23'01
morning rise	5809 Jul 24 22:52	23°☿08'14		min. Earth dist.	5810 Jun 29 05:18	6°☿04'20	0.55914 AU
direct	5809 Jul 28 22:23	22°☿34'02		morning rise	5810 Jul 04 22:02	3°☿07'20	
morning max el	5809 Aug 11 07:40	29°☿03'40	23°30'40	direct	5810 Jul 09 18:22	2°☿13'54	
	5809 Aug 12 06:58	0°♌		morning max el	5810 Jul 23 20:53	9°☿22'24	25°13'06
asc. node	5809 Aug 29 08:44	25°♌13'22			5810 Aug 08 07:31	0°♌	
	5809 Aug 31 18:55	0°♍		asc. node	5810 Aug 16 05:44	14°♌45'50	
morning set	5809 Sep 03 23:40	6°♍37'16		morning set	5810 Aug 19 11:18	21°♌28'13	
					5810 Aug 23 09:57	0°♍	
superior conj	5809 Sep 10 23:25	21°♍40'47	1°38'20	superior conj	5810 Aug 26 09:16	6°♍31'34	1°28'06
minimum elong	5809 Sep 10 22:02	21°♍33'22	1°38'16	minimum elong	5810 Aug 26 07:12	6°♍20'15	1°27'53
max. Earth dist.	5809 Sep 13 11:50	27°♍03'43	1.33390 AU	max. Earth dist.	5810 Aug 27 17:09	9°♍26'02	1.32461 AU
	5809 Sep 14 21:20	0°♎		evening rise	5810 Sep 02 12:23	21°♍47'19	
evening rise	5809 Sep 18 13:16	7°♎29'37			5810 Sep 06 14:51	0°♎	
	5809 Sep 30 21:33	0°♍		desc. node	5810 Sep 21 05:15	24°♎52'54	
desc. node	5809 Oct 04 08:13	5°♍30'54			5810 Sep 24 20:20	0°♍	
evening max el	5809 Oct 22 15:27	28°♍54'02	27°22'22	evening max el	5810 Oct 05 01:15	11°♍49'44	27°24'55
	5809 Oct 23 20:02	0°♏		retrograde	5810 Oct 18 19:41	19°♍04'07	
retrograde	5809 Nov 05 04:34	6°♏12'27		evening set	5810 Oct 25 23:38	16°♍36'34	
evening set	5809 Nov 12 04:45	3°♏34'33		min. Earth dist.	5810 Oct 29 15:06	13°♍39'26	0.62532 AU
min. Earth dist.	5809 Nov 15 23:29	0°♏08'10	0.64313 AU	inferior conj	5810 Nov 01 11:53	10°♍56'48	-3°22'22
	5809 Nov 16 02:38	30°♏♍		minimum elong	5810 Nov 01 17:44	10°♍42'56	3°20'25
inferior conj	5809 Nov 18 09:12	27°♍35'13	-2°17'57	morning rise	5810 Nov 08 13:35	5°♍49'29	
minimum elong	5809 Nov 18 13:17	27°♍24'23	2°16'20	direct	5810 Nov 10 21:51	5°♍24'37	
morning rise	5809 Nov 24 23:13	22°♍10'09		asc. node	5810 Nov 12 05:02	5°♍32'29	
asc. node	5809 Nov 25 08:00	22°♍01'31		morning max el	5810 Nov 17 16:04	8°♍51'59	17°49'44
direct	5809 Nov 27 11:43	21°♍37'47			5810 Dec 01 13:39	0°♏	
morning max el	5809 Dec 03 23:30	25°♍02'33	17°54'01	morning set	5810 Dec 03 15:48	3°♏42'42	
	5809 Dec 08 02:13	0°♏					
morning set	5809 Dec 21 01:06	20°♏54'23		superior conj	5810 Dec 15 00:10	23°♏28'51	0°22'33
	5809 Dec 26 10:47	0°♐		minimum elong	5810 Dec 15 02:17	23°♏37'47	0°22'17
desc. node	5809 Dec 31 07:31	8°♐01'58		desc. node	5810 Dec 18 04:31	28°♏47'49	
					5810 Dec 18 22:01	0°♐	
superior conj	5810 Jan 03 07:12	12°♐53'02	-0°20'55	max. Earth dist.	5810 Dec 21 23:03	4°♐57'59	1.43580 AU
minimum elong	5810 Jan 03 04:45	12°♐43'10	0°20'32	evening rise	5810 Dec 29 19:47	17°♐25'00	
max. Earth dist.	5810 Jan 08 06:32	20°♐49'48	1.44801 AU		5811 Jan 07 02:05	0°♐	
	5810 Jan 14 02:52	0°♑			5811 Jan 29 06:16	0°♏	
evening rise	5810 Jan 19 08:07	8°♑03'54		evening max el	5811 Jan 29 11:48	0°♏14'12	21°23'50
	5810 Feb 02 21:05	0°♏		retrograde	5811 Feb 07 07:32	5°♏27'50	
greatest brilliancy	5810 Feb 02 23:30	0°♏08'52	-0.6m	asc. node	5811 Feb 08 04:16	5°♏23'52	
evening max el	5810 Feb 15 13:36	16°♏38'22	20°14'37	evening set	5811 Feb 11 13:31	3°♏47'19	
asc. node	5810 Feb 21 07:14	20°♏49'32			5811 Feb 15 01:46	30°♏♑	
retrograde	5810 Feb 23 09:38	21°♏12'53		inferior conj	5811 Feb 16 21:27	27°♑31'44	2°34'36
evening set	5810 Feb 27 05:40	19°♏47'38		minimum elong	5811 Feb 16 19:04	27°♑39'58	2°33'57
inferior conj	5810 Mar 04 14:28	13°♏43'03	3°03'56	min. Earth dist.	5811 Feb 17 03:25	27°♑11'02	0.68013 AU
minimum elong	5810 Mar 04 12:23	13°♏50'05	3°03'32	morning rise	5811 Feb 22 00:28	21°♑19'20	
min. Earth dist.	5810 Mar 05 09:16	12°♏39'18	0.67440 AU	direct	5811 Feb 27 04:03	19°♑04'41	
morning rise	5810 Mar 09 18:53	7°♏28'20		morning max el	5811 Mar 09 10:48	25°♑10'50	23°14'05
direct	5810 Mar 15 12:49	4°♏54'13			5811 Mar 13 19:20	0°♏	
morning max el	5810 Mar 27 01:36	11°♏48'13	24°43'12	desc. node	5811 Mar 16 03:50	2°♏53'18	
desc. node	5810 Mar 29 06:49	14°♏09'20			5811 Apr 04 03:26	0°♑	
	5810 Apr 10 15:27	0°♑		morning set	5811 Apr 13 07:46	14°♑49'38	
	5810 Apr 29 17:57	0°♒		max. Earth dist.	5811 Apr 17 12:19	21°♑58'31	1.39428 AU
morning set	5810 May 02 01:51	4°♒03'54			5811 Apr 22 01:05	0°♒	
max. Earth dist.	5810 May 05 16:35	10°♒33'43	1.37241 AU				

superior conj	5811 Apr 25 03:39	5°♄40'48	-1°41'01	minimum elong	5812 Apr 06 07:25	17°♄33'07	2°01'10
minimum elong	5811 Apr 25 08:49	6°♄04'45	1°40'26		5812 Apr 13 05:53	0°♄	
evening rise	5811 May 04 15:33	23°♄44'35		evening rise	5812 Apr 16 21:43	6°♄43'36	
asc. node	5811 May 07 03:30	28°♄31'30		asc. node	5812 Apr 23 00:33	17°♄50'12	
	5811 May 07 22:13	0°♄			5812 Apr 30 20:55	0°♄	
evening max el	5811 May 20 19:55	19°♄49'39	18°36'36	evening max el	5812 May 03 04:40	2°♄35'41	18°11'56
retrograde	5811 May 28 16:56	23°♄43'07		retrograde	5812 May 10 03:21	6°♄05'35	
evening set	5811 May 30 21:11	23°♄26'17		evening set	5812 May 12 14:36	5°♄39'43	
inferior conj	5811 Jun 07 14:52	18°♄59'58	1°17'13	inferior conj	5812 May 19 13:48	0°♄53'00	2°27'54
minimum elong	5811 Jun 07 17:30	18°♄54'54	1°16'17	minimum elong	5812 May 19 17:10	0°♄45'29	2°27'01
min. Earth dist.	5811 Jun 10 22:57	16°♄27'51	0.57645 AU		5812 May 20 13:22	30°♄	
desc. node	5811 Jun 12 03:04	15°♄38'23		min. Earth dist.	5812 May 22 22:47	27°♄53'24	0.59781 AU
morning rise	5811 Jun 15 10:30	13°♄42'49		morning rise	5812 May 26 16:59	25°♄07'51	
direct	5811 Jun 21 04:20	12°♄20'10		desc. node	5812 May 29 00:07	23°♄59'31	
morning max el	5811 Jul 05 13:26	19°♄55'45	26°39'05	direct	5812 Jun 02 03:30	23°♄11'08	
	5811 Jul 14 03:59	0°♄			5812 Jun 15 09:36	0°♄	
	5811 Jul 31 21:17	0°♄		morning max el	5812 Jun 16 12:17	1°♄04'00	27°34'55
asc. node	5811 Aug 03 02:46	4°♄34'56			5812 Jul 07 08:24	0°♄	
morning set	5811 Aug 03 21:34	6°♄13'43		morning set	5812 Jul 18 04:44	20°♄47'30	
				asc. node	5812 Jul 19 23:48	24°♄34'29	
superior conj	5811 Aug 10 20:55	21°♄25'18	1°12'54		5812 Jul 22 12:11	0°♄	
minimum elong	5811 Aug 10 18:38	21°♄12'38	1°12'32	max. Earth dist.	5812 Jul 24 14:16	4°♄34'38	1.31888 AU
max. Earth dist.	5811 Aug 11 03:14	22°♄00'14	1.31964 AU				
	5811 Aug 14 18:34	0°♄		superior conj	5812 Jul 25 08:31	6°♄15'22	0°53'15
evening rise	5811 Aug 17 17:54	6°♄22'01		minimum elong	5812 Jul 25 06:28	6°♄04'04	0°52'50
	5811 Aug 30 04:14	0°♄		evening rise	5812 Aug 01 03:24	21°♄05'41	
desc. node	5811 Sep 08 02:17	13°♄30'20			5812 Aug 05 10:51	0°♄	
evening max el	5811 Sep 17 05:39	24°♄03'20	26°54'09		5812 Aug 24 01:23	0°♄	
	5811 Sep 25 15:59	0°♄		desc. node	5812 Aug 24 23:20	1°♄04'55	
retrograde	5811 Oct 01 03:02	1°♄13'17		evening max el	5812 Aug 29 02:30	5°♄27'17	25°50'59
	5811 Oct 06 10:12	30°♄		retrograde	5812 Sep 12 01:27	12°♄33'25	
evening set	5811 Oct 08 02:05	29°♄07'44		evening set	5812 Sep 18 07:12	11°♄00'58	
min. Earth dist.	5811 Oct 11 19:48	26°♄29'36	0.60524 AU	min. Earth dist.	5812 Sep 22 14:53	8°♄25'08	0.58450 AU
inferior conj	5811 Oct 15 00:23	23°♄50'42	-4°21'42	inferior conj	5812 Sep 25 19:13	6°♄07'28	-5°06'19
minimum elong	5811 Oct 15 06:53	23°♄37'10	4°20'06	minimum elong	5812 Sep 25 23:49	5°♄59'09	5°05'43
morning rise	5811 Oct 22 13:45	19°♄04'39		morning rise	5812 Oct 03 18:45	1°♄44'32	
direct	5811 Oct 24 20:56	18°♄44'13		direct	5812 Oct 06 04:24	1°♄25'55	
asc. node	5811 Oct 30 02:04	20°♄34'46		morning max el	5812 Oct 14 11:57	5°♄25'15	18°39'19
morning max el	5811 Nov 01 05:21	22°♄22'38	18°04'20	asc. node	5812 Oct 15 23:06	6°♄56'15	
	5811 Nov 07 03:40	0°♄			5812 Oct 30 00:23	0°♄	
morning set	5811 Nov 16 22:57	17°♄17'06		morning set	5812 Oct 30 17:37	1°♄23'34	
	5811 Nov 23 19:56	0°♄					
superior conj	5811 Nov 26 18:52	5°♄19'07	0°57'14	superior conj	5812 Nov 08 10:45	18°♄10'48	1°21'38
minimum elong	5811 Nov 26 22:39	5°♄35'58	0°56'46	minimum elong	5812 Nov 08 14:08	18°♄26'39	1°21'18
max. Earth dist.	5811 Dec 04 10:35	18°♄31'54	1.41828 AU		5812 Nov 14 22:23	0°♄	
desc. node	5811 Dec 05 01:33	19°♄34'19		max. Earth dist.	5812 Nov 15 17:01	1°♄21'55	1.39764 AU
evening rise	5811 Dec 09 20:38	27°♄24'28		evening rise	5812 Nov 19 19:04	8°♄22'56	
	5811 Dec 11 11:38	0°♄		desc. node	5812 Nov 20 22:35	10°♄18'04	
	5811 Dec 31 19:27	0°♄			5812 Dec 03 11:27	0°♄	
evening max el	5812 Jan 12 05:00	13°♄51'33	22°41'13	evening max el	5812 Dec 24 18:58	27°♄32'28	24°01'14
retrograde	5812 Jan 22 03:31	19°♄45'45			5812 Dec 27 10:48	0°♄	
asc. node	5812 Jan 26 01:20	18°♄26'51		retrograde	5813 Jan 04 20:16	4°♄02'46	
evening set	5812 Jan 26 20:52	17°♄49'42		evening set	5813 Jan 10 02:13	1°♄51'41	
inferior conj	5812 Feb 01 05:38	11°♄26'25	1°56'47	asc. node	5813 Jan 11 22:21	0°♄02'35	
minimum elong	5812 Feb 01 03:26	11°♄34'05	1°56'03		5813 Jan 11 23:17	30°♄	
min. Earth dist.	5812 Jan 31 23:53	11°♄46'21	0.68182 AU	min. Earth dist.	5813 Jan 14 20:25	26°♄21'49	0.67971 AU
morning rise	5812 Feb 06 09:53	5°♄17'39		inferior conj	5813 Jan 15 13:14	25°♄24'50	1°11'28
direct	5812 Feb 10 22:57	3°♄25'33		minimum elong	5813 Jan 15 11:39	25°♄30'11	1°10'53
morning max el	5812 Feb 19 23:42	8°♄41'50	21°47'04	morning rise	5813 Jan 20 21:08	19°♄21'18	
desc. node	5812 Mar 02 00:52	22°♄16'42		direct	5813 Jan 24 20:30	17°♄51'41	
	5812 Mar 07 11:47	0°♄		morning max el	5813 Feb 01 19:22	22°♄24'15	20°29'18
morning set	5812 Mar 23 09:24	24°♄15'08			5813 Feb 08 05:58	0°♄	
	5812 Mar 26 22:45	0°♄		desc. node	5813 Feb 16 21:53	12°♄08'57	
max. Earth dist.	5812 Mar 29 11:34	4°♄10'41	1.41581 AU		5813 Feb 28 18:21	0°♄	
				morning set	5813 Mar 02 11:16	2°♄38'07	
superior conj	5812 Apr 06 03:10	17°♄14'26	-2°01'24	max. Earth dist.	5813 Mar 11 17:48	17°♄16'45	1.43423 AU

superior conj	5813 Mar 18 02:56	27° $\text{H}$ 43'18	-2°09'42	minimum elong	5814 Feb 25 19:07	6° $\text{H}$ 40'57	1°59'56
minimum elong	5813 Mar 18 03:00	27° $\text{H}$ 43'35	2°09'42	evening rise	5814 Mar 12 04:50	0° $\text{Y}$ 12'38	
	5813 Mar 19 11:40	0° $\text{Y}$			5814 Mar 12 01:48	0° $\text{Y}$	
evening rise	5813 Mar 30 11:39	18° $\text{Y}$ 55'54		asc. node	5814 Mar 27 18:38	25° $\text{Y}$ 01'11	
	5813 Apr 05 19:59	0° $\text{B}$		evening max el	5814 Mar 31 05:54	29° $\text{Y}$ 06'45	18°20'25
asc. node	5813 Apr 09 21:36	6° $\text{B}$ 42'59			5814 Apr 01 04:26	0° $\text{B}$	
evening max el	5813 Apr 16 17:03	15° $\text{B}$ 44'14	18°06'45	retrograde	5814 Apr 06 16:10	2° $\text{B}$ 34'08	
retrograde	5813 Apr 23 04:33	19° $\text{B}$ 05'50		evening set	5814 Apr 09 16:42	1° $\text{B}$ 44'29	
evening set	5813 Apr 25 22:34	18° $\text{B}$ 28'45			5814 Apr 12 02:19	30° $\text{R}$ $\text{Y}$	
inferior conj	5813 May 02 07:03	13° $\text{B}$ 22'16	3°09'46	inferior conj	5814 Apr 15 14:26	26° $\text{Y}$ 19'20	3°28'27
minimum elong	5813 May 02 09:22	13° $\text{B}$ 16'18	3°09'24	minimum elong	5814 Apr 15 15:12	26° $\text{Y}$ 17'08	3°28'24
min. Earth dist.	5813 May 05 06:40	10° $\text{B}$ 20'02	0.61992 AU	min. Earth dist.	5814 Apr 17 23:38	23° $\text{Y}$ 36'16	0.64009 AU
morning rise	5813 May 08 18:26	7° $\text{B}$ 20'01		morning rise	5814 Apr 21 12:46	20° $\text{Y}$ 08'24	
direct	5813 May 15 13:35	4° $\text{B}$ 53'42		direct	5814 Apr 28 08:04	17° $\text{Y}$ 23'56	
desc. node	5813 May 15 21:09	4° $\text{B}$ 54'00		desc. node	5814 May 02 18:10	18° $\text{Y}$ 23'35	
morning max el	5813 May 29 17:07	12° $\text{B}$ 54'26	27°53'31	morning max el	5814 May 12 01:48	25° $\text{Y}$ 22'28	27°35'11
	5813 Jun 12 07:57	0° $\text{II}$			5814 May 16 07:22	0° $\text{B}$	
	5813 Jun 29 18:14	0° $\text{E}$			5814 Jun 05 19:48	0° $\text{II}$	
morning set	5813 Jul 02 06:48	5° $\text{E}$ 03'29		morning set	5814 Jun 16 01:19	18° $\text{II}$ 54'23	
asc. node	5813 Jul 06 20:50	14° $\text{E}$ 39'55		max. Earth dist.	5814 Jun 20 23:40	28° $\text{II}$ 57'02	1.33056 AU
max. Earth dist.	5813 Jul 07 22:20	16° $\text{E}$ 57'10	1.32245 AU		5814 Jun 21 11:41	0° $\text{E}$	
				asc. node	5814 Jun 23 17:52	4° $\text{E}$ 47'03	
superior conj	5813 Jul 09 18:18	20° $\text{E}$ 56'13	0°29'41	superior conj	5814 Jun 24 00:25	5° $\text{E}$ 22'03	0°02'50
minimum elong	5813 Jul 09 16:59	20° $\text{E}$ 49'00	0°29'22	minimum elong	5814 Jun 24 00:16	5° $\text{E}$ 21'18	0°02'46
	5813 Jul 13 21:41	0° $\text{O}$		behind sun begin	5814 Jun 23 18:57	4° $\text{E}$ 52'50	
evening rise	5813 Jul 16 14:53	5° $\text{O}$ 52'06		behind sun end	5814 Jun 24 05:36	5° $\text{E}$ 49'48	
	5813 Jul 29 07:08	0° $\text{M}$		evening rise	5814 Jul 01 02:30	20° $\text{E}$ 35'26	
evening max el	5813 Aug 10 16:36	16° $\text{M}$ 07'28	24°23'15		5814 Jul 05 16:23	0° $\text{O}$	
desc. node	5813 Aug 11 20:22	17° $\text{M}$ 11'49		evening max el	5814 Jul 23 05:25	26° $\text{O}$ 27'37	22°45'24
retrograde	5813 Aug 24 12:33	23° $\text{M}$ 05'09			5814 Jul 27 12:09	0° $\text{M}$	
evening set	5813 Aug 29 11:45	22° $\text{M}$ 10'15		desc. node	5814 Jul 29 17:23	1° $\text{M}$ 19'15	
min. Earth dist.	5813 Sep 04 03:37	19° $\text{M}$ 17'53	0.56586 AU	retrograde	5814 Aug 05 10:46	3° $\text{M}$ 03'03	
inferior conj	5813 Sep 06 18:00	17° $\text{M}$ 39'30	-5°21'16	evening set	5814 Aug 08 21:30	2° $\text{M}$ 37'03	
minimum elong	5813 Sep 06 17:10	17° $\text{M}$ 40'49	5°21'15		5814 Aug 15 04:04	30° $\text{R}$ $\text{O}$	
morning rise	5813 Sep 15 00:59	13° $\text{M}$ 37'27		min. Earth dist.	5814 Aug 16 13:28	29° $\text{O}$ 13'28	0.55263 AU
direct	5813 Sep 17 17:00	13° $\text{M}$ 18'21		inferior conj	5814 Aug 17 22:05	28° $\text{O}$ 26'51	-4°49'48
morning max el	5813 Sep 27 08:27	17° $\text{M}$ 49'34	19°35'59	minimum elong	5814 Aug 17 14:50	28° $\text{O}$ 37'14	4°48'32
asc. node	5813 Oct 02 20:08	24° $\text{O}$ 21'38		morning rise	5814 Aug 26 10:12	24° $\text{O}$ 36'57	
	5813 Oct 06 10:35	0° $\text{A}$		direct	5814 Aug 29 11:50	24° $\text{O}$ 15'08	
morning set	5813 Oct 14 20:04	15° $\text{A}$ 51'40		morning max el	5814 Sep 09 16:43	29° $\text{O}$ 28'31	20°54'22
	5813 Oct 21 20:35	0° $\text{M}$			5814 Sep 10 05:57	0° $\text{M}$	
superior conj	5813 Oct 22 18:28	1° $\text{M}$ 48'14	1°36'20	asc. node	5814 Sep 19 17:09	12° $\text{M}$ 36'51	
minimum elong	5813 Oct 22 20:30	1° $\text{M}$ 58'16	1°36'13		5814 Sep 28 21:00	0° $\text{A}$	
max. Earth dist.	5813 Oct 28 21:50	13° $\text{M}$ 33'39	1.37653 AU	morning set	5814 Sep 29 03:40	0° $\text{A}$ 34'22	
evening rise	5813 Nov 01 15:52	20° $\text{M}$ 22'02		superior conj	5814 Oct 06 13:34	15° $\text{A}$ 59'07	1°42'36
	5813 Nov 07 06:23	0° $\text{A}$		minimum elong	5814 Oct 06 14:05	16° $\text{A}$ 01'49	1°42'36
desc. node	5813 Nov 07 19:34	0° $\text{A}$ 54'44		max. Earth dist.	5814 Oct 11 06:44	25° $\text{A}$ 28'20	1.35723 AU
	5813 Nov 27 12:40	0° $\text{B}$			5814 Oct 13 14:50	0° $\text{M}$	
evening max el	5813 Dec 07 07:45	11° $\text{B}$ 16'37	25°17'12	evening rise	5814 Oct 15 07:57	3° $\text{M}$ 14'08	
retrograde	5813 Dec 19 08:37	18° $\text{B}$ 13'23		desc. node	5814 Oct 25 16:36	21° $\text{M}$ 20'00	
evening set	5813 Dec 25 03:53	15° $\text{B}$ 48'51			5814 Oct 31 05:07	0° $\text{A}$	
min. Earth dist.	5813 Dec 29 14:37	10° $\text{B}$ 53'16	0.67402 AU	evening max el	5814 Nov 19 20:41	25° $\text{A}$ 00'25	26°21'37
asc. node	5813 Dec 29 19:24	10° $\text{B}$ 37'52			5814 Nov 26 01:20	0° $\text{B}$	
inferior conj	5813 Dec 30 18:24	9° $\text{B}$ 23'09	0°19'25	retrograde	5814 Dec 02 15:45	2° $\text{B}$ 12'25	
minimum elong	5813 Dec 30 17:54	9° $\text{B}$ 24'44	0°19'15		5814 Dec 08 12:54	30° $\text{R}$ $\text{A}$	
morning rise	5814 Jan 05 08:12	3° $\text{B}$ 26'57		evening set	5814 Dec 09 00:08	29° $\text{A}$ 37'40	
direct	5814 Jan 08 19:20	2° $\text{B}$ 17'48		min. Earth dist.	5814 Dec 13 04:07	25° $\text{A}$ 17'16	0.66483 AU
morning max el	5814 Jan 15 22:54	6° $\text{B}$ 17'09	19°25'04	inferior conj	5814 Dec 14 19:14	23° $\text{A}$ 18'13	-0°38'25
greatest brilliancy	5814 Jan 29 02:00	23° $\text{B}$ 43'07	-0.7m	minimum elong	5814 Dec 14 20:17	23° $\text{A}$ 15'02	0°37'57
	5814 Feb 02 05:48	0° $\text{A}$		asc. node	5814 Dec 16 16:25	21° $\text{A}$ 04'31	
desc. node	5814 Feb 03 18:52	2° $\text{A}$ 21'32		morning rise	5814 Dec 20 17:04	17° $\text{A}$ 31'53	
morning set	5814 Feb 09 09:17	10° $\text{A}$ 58'31		direct	5814 Dec 23 17:46	16° $\text{A}$ 39'59	
	5814 Feb 21 14:01	0° $\text{H}$		morning max el	5814 Dec 30 09:27	20° $\text{A}$ 17'38	18°36'31
max. Earth dist.	5814 Feb 22 07:02	1° $\text{H}$ 07'12	1.44725 AU		5815 Jan 07 00:03	0° $\text{B}$	
superior conj	5814 Feb 26 01:32	7° $\text{H}$ 06'32	-2°00'19	morning set	5815 Jan 20 03:28	20° $\text{B}$ 25'03	

desc. node	5815 Jan 21 15:52	22°♄48'55	superior conj	5816 Jan 15 13:25	24°♄41'00 -0°47'49
	5815 Jan 26 05:10	0°♄	minimum elong	5816 Jan 15 07:35	24°♄17'53 0°47'01
				5816 Jan 18 22:16	0°♄
superior conj	5815 Feb 05 06:49	15°♄48'16 -1°31'06	max. Earth dist.	5816 Jan 18 21:01	29°♄55'05 1.45201 AU
minimum elong	5815 Feb 04 21:20	15°♄11'06 1°30'07	evening rise	5816 Jan 31 19:51	20°♄05'17
max. Earth dist.	5815 Feb 05 01:15	15°♄26'28 1.45338 AU		5816 Feb 07 06:05	0°♄
	5815 Feb 14 07:25	0°♄	greatest brilliancy	5816 Feb 14 02:26	10°♄23'55 -0.7m
evening rise	5815 Feb 20 22:43	10°♄32'12	evening max el	5816 Feb 25 23:11	26°♄10'07 19°40'14
greatest brilliancy	5815 Mar 01 08:13	23°♄54'34 -0.8m	asc. node	5816 Feb 29 12:42	29°♄09'39
	5815 Mar 05 06:06	0°♄		5816 Mar 02 04:34	0°♄
evening max el	5815 Mar 14 16:38	12°♄36'46 18°52'01	retrograde	5816 Mar 04 07:51	0°♄24'49
asc. node	5815 Mar 14 15:40	12°♄34'19		5816 Mar 06 09:24	30°♄
retrograde	5815 Mar 21 10:18	16°♄22'29	evening set	5816 Mar 07 22:51	29°♄07'51
evening set	5815 Mar 24 17:39	15°♄19'27	inferior conj	5816 Mar 13 09:00	23°♄10'31 3°16'30
inferior conj	5815 Mar 30 08:08	9°♄37'12 3°29'21	minimum elong	5816 Mar 13 07:19	23°♄16'07 3°16'15
minimum elong	5815 Mar 30 07:29	9°♄39'15 3°29'18	min. Earth dist.	5816 Mar 14 11:40	21°♄42'11 0.66910 AU
min. Earth dist.	5815 Apr 01 01:41	7°♄27'52 0.65671 AU	morning rise	5816 Mar 18 15:32	16°♄55'08
morning rise	5815 Apr 04 20:52	3°♄22'33	direct	5816 Mar 24 16:56	14°♄13'02
direct	5815 Apr 11 09:27	0°♄33'24	desc. node	5816 Apr 05 12:11	21°♄06'45
desc. node	5815 Apr 19 15:11	3°♄58'41	morning max el	5816 Apr 05 21:33	21°♄30'15 25°32'02
morning max el	5815 Apr 24 11:55	8°♄18'11 26°45'12		5816 Apr 13 06:46	0°♄
	5815 May 11 09:35	0°♄		5816 May 03 15:06	0°♄
	5815 May 29 05:29	0°♄	morning set	5816 May 12 01:56	14°♄40'22
morning set	5815 May 30 09:06	2°♄10'27	max. Earth dist.	5816 May 15 19:25	21°♄35'06 1.36073 AU
max. Earth dist.	5815 Jun 03 15:05	10°♄27'48 1.34341 AU		5816 May 20 03:54	0°♄
superior conj	5815 Jun 08 00:36	19°♄25'42 -0°26'27	superior conj	5816 May 21 16:12	3°♄00'09 -0°56'44
minimum elong	5815 Jun 08 02:02	19°♄33'10 0°26'11	minimum elong	5816 May 21 19:24	3°♄16'12 0°56'09
asc. node	5815 Jun 10 14:54	24°♄51'34	asc. node	5816 May 27 11:57	14°♄49'33
	5815 Jun 13 01:25	0°♄	evening rise	5816 May 29 18:09	19°♄26'18
evening rise	5815 Jun 15 12:18	5°♄08'53		5816 Jun 04 02:37	0°♄
	5815 Jun 29 05:18	0°♄	evening max el	5816 Jun 16 08:48	18°♄09'48 19°56'26
evening max el	5815 Jul 05 01:01	6°♄59'59 21°12'58	retrograde	5816 Jun 26 15:25	23°♄11'58
desc. node	5815 Jul 16 14:25	12°♄53'56	evening set	5816 Jun 28 13:00	23°♄02'23
retrograde	5815 Jul 17 00:04	12°♄54'19	desc. node	5816 Jul 02 11:26	21°♄48'03
evening set	5815 Jul 19 07:27	12°♄41'56	inferior conj	5816 Jul 07 12:33	19°♄01'51 -1°30'57
inferior conj	5815 Jul 28 15:27	8°♄43'40 -3°26'26	minimum elong	5816 Jul 07 08:19	19°♄08'16 1°29'23
minimum elong	5815 Jul 28 06:46	8°♄55'52 3°23'46	min. Earth dist.	5816 Jul 09 11:31	17°♄50'41 0.55233 AU
min. Earth dist.	5815 Jul 28 23:20	8°♄32'36 0.54766 AU	morning rise	5816 Jul 16 01:49	14°♄40'36
morning rise	5815 Aug 06 06:41	4°♄48'27	direct	5816 Jul 20 09:23	13°♄59'49
direct	5815 Aug 09 20:44	4°♄20'48	morning max el	5816 Aug 03 03:57	20°♄47'17 24°15'12
morning max el	5815 Aug 22 13:36	10°♄22'21 22°30'46		5816 Aug 11 01:59	0°♄
	5815 Sep 05 18:36	0°♄	asc. node	5816 Aug 23 11:13	20°♄49'13
asc. node	5815 Sep 06 14:11	1°♄29'07		5816 Aug 27 22:47	0°♄
morning set	5815 Sep 13 14:13	15°♄24'28	morning set	5816 Aug 28 01:57	0°♄16'42
	5815 Sep 20 10:28	0°♄			
superior conj	5815 Sep 20 16:30	0°♄32'03 1°41'42	superior conj	5816 Sep 04 00:31	15°♄18'42 1°34'39
minimum elong	5815 Sep 20 15:42	0°♄27'53 1°41'41	minimum elong	5816 Sep 03 22:47	15°♄09'20 1°34'30
max. Earth dist.	5815 Sep 23 23:25	7°♄25'54 1.34126 AU	max. Earth dist.	5816 Sep 06 00:27	19°♄37'51 1.32943 AU
evening rise	5815 Sep 28 14:59	16°♄47'18		5816 Sep 10 23:04	0°♄
	5815 Oct 05 17:30	0°♄	evening rise	5816 Sep 11 09:11	0°♄51'27
desc. node	5815 Oct 12 13:38	11°♄27'19		5816 Sep 27 16:42	0°♄
	5815 Oct 25 15:27	0°♄	desc. node	5816 Sep 28 10:40	1°♄08'52
evening max el	5815 Nov 02 09:27	8°♄34'26 27°07'13	evening max el	5816 Oct 14 20:45	21°♄47'13 27°27'11
retrograde	5815 Nov 15 17:11	15°♄52'28	retrograde	5816 Oct 28 12:30	29°♄04'49
evening set	5815 Nov 22 12:50	13°♄13'07	evening set	5816 Nov 04 15:15	26°♄29'35
min. Earth dist.	5815 Nov 26 10:35	9°♄27'51 0.65207 AU	min. Earth dist.	5816 Nov 08 08:02	23°♄16'47 0.63591 AU
inferior conj	5815 Nov 28 13:34	7°♄05'08 -1°40'47	inferior conj	5816 Nov 10 22:48	20°♄38'01 -2°45'31
minimum elong	5815 Nov 28 16:30	6°♄56'55 1°39'34	minimum elong	5816 Nov 11 03:42	20°♄25'36 2°43'42
asc. node	5815 Dec 03 13:27	2°♄17'46	morning rise	5816 Nov 17 17:46	15°♄20'26
morning rise	5815 Dec 04 21:16	1°♄31'38	asc. node	5816 Nov 19 10:30	14°♄54'25
direct	5815 Dec 07 13:35	0°♄53'14	direct	5816 Nov 20 04:04	14°♄51'47
morning max el	5815 Dec 14 00:42	4°♄19'50 18°04'38	morning max el	5816 Nov 26 17:45	18°♄16'32 17°50'00
	5815 Dec 31 07:42	0°♄		5816 Dec 05 06:30	0°♄
morning set	5816 Jan 01 03:18	1°♄20'44	morning set	5816 Dec 13 05:41	13°♄33'29
desc. node	5816 Jan 08 12:53	13°♄26'34		5816 Dec 22 21:22	0°♄
			desc. node	5816 Dec 25 09:54	4°♄10'25

superior conj	5816 Dec 25 15:28	4°♄33'18	-0°01'39	morning max el	5817 Nov 10 09:25	1°♄59'57	17°53'31
minimum elong	5816 Dec 25 15:17	4°♄32'33	0°01'35	morning set	5817 Nov 26 04:10	26°♄44'04	
behind sun begin	5816 Dec 25 05:39	3°♄53'00			5817 Nov 27 23:22	0°♄	
behind sun end	5816 Dec 26 00:54	5°♄12'01					
max. Earth dist.	5816 Dec 31 14:56	14°♄13'34	1.44348 AU	superior conj	5817 Dec 06 19:48	15°♄42'32	0°38'30
evening rise	5817 Jan 10 06:23	29°♄18'55		minimum elong	5817 Dec 06 22:58	15°♄56'09	0°38'04
	5817 Jan 10 17:05	0°♄		desc. node	5817 Dec 12 06:56	24°♄57'28	
	5817 Jan 31 01:25	0°♄		max. Earth dist.	5817 Dec 14 05:03	28°♄07'37	1.42885 AU
evening max el	5817 Feb 08 00:24	9°♄44'28	20°42'48		5817 Dec 15 08:37	0°♄	
asc. node	5817 Feb 15 09:46	14°♄31'56		evening rise	5817 Dec 20 22:12	8°♄53'19	
retrograde	5817 Feb 16 06:13	14°♄35'48			5818 Jan 03 21:40	0°♄	
evening set	5817 Feb 20 06:13	13°♄04'12		evening max el	5818 Jan 21 20:22	23°♄21'06	21°56'06
inferior conj	5817 Feb 25 14:23	6°♄54'25	2°52'37	retrograde	5818 Jan 31 03:29	28°♄52'20	
minimum elong	5817 Feb 25 12:08	7°♄02'10	2°52'06	asc. node	5818 Feb 02 06:47	28°♄28'13	
min. Earth dist.	5817 Feb 26 03:35	6°♄09'05	0.67724 AU	evening set	5818 Feb 04 14:01	27°♄05'29	
morning rise	5817 Mar 02 17:51	0°♄40'15		inferior conj	5818 Feb 09 22:08	20°♄46'15	2°19'32
	5817 Mar 03 13:03	30°♄		minimum elong	5818 Feb 09 19:46	20°♄54'27	2°18'50
direct	5817 Mar 08 05:39	28°♄13'51		min. Earth dist.	5818 Feb 09 23:06	20°♄42'54	0.68132 AU
	5817 Mar 13 11:54	0°♄		morning rise	5818 Feb 15 01:20	14°♄35'00	
morning max el	5817 Mar 19 06:16	4°♄49'13	24°05'38	direct	5818 Feb 19 22:45	12°♄29'30	
desc. node	5817 Mar 23 09:12	9°♄21'05		morning max el	5818 Mar 01 16:26	18°♄14'27	22°36'13
	5817 Apr 07 15:17	0°♄		desc. node	5818 Mar 10 06:14	28°♄23'25	
morning set	5817 Apr 23 22:18	26°♄08'21			5818 Mar 11 11:23	0°♄	
	5817 Apr 26 03:24	0°♄			5818 Mar 31 18:27	0°♄	
max. Earth dist.	5817 Apr 27 15:42	2°♄41'04	1.38150 AU	morning set	5818 Apr 04 16:20	6°♄19'39	
				max. Earth dist.	5818 Apr 09 11:36	14°♄21'11	1.40365 AU
superior conj	5817 May 04 19:42	15°♄55'54	-1°25'55	superior conj	5818 Apr 17 06:51	28°♄02'54	-1°50'47
minimum elong	5817 May 05 00:26	16°♄18'29	1°25'15	minimum elong	5818 Apr 17 11:57	28°♄26'01	1°50'20
	5817 May 12 00:56	0°♄			5818 Apr 18 08:38	0°♄	
evening rise	5817 May 13 17:24	3°♄19'32		evening rise	5818 Apr 27 06:52	16°♄40'39	
asc. node	5817 May 14 09:00	4°♄36'09		asc. node	5818 May 01 06:02	24°♄06'35	
evening max el	5817 May 30 04:49	0°♄02'37	18°59'54		5818 May 04 12:47	0°♄	
	5817 May 30 03:45	0°♄		evening max el	5818 May 13 10:01	12°♄32'13	18°23'45
retrograde	5817 Jun 07 20:12	4°♄16'57		retrograde	5818 May 20 19:56	16°♄13'15	
evening set	5817 Jun 09 20:35	4°♄04'03		evening set	5818 May 23 03:16	15°♄52'50	
	5817 Jun 17 19:49	30°♄		inferior conj	5818 May 30 12:43	11°♄18'08	1°50'57
inferior conj	5817 Jun 18 01:55	29°♄49'21	0°22'33	minimum elong	5818 May 30 15:58	11°♄11'28	1°49'56
minimum elong	5817 Jun 18 02:50	29°♄47'46	0°22'10	min. Earth dist.	5818 Jun 02 22:58	8°♄31'18	0.58526 AU
desc. node	5817 Jun 19 08:29	28°♄55'45		desc. node	5818 Jun 06 05:31	6°♄15'51	
min. Earth dist.	5817 Jun 21 03:01	27°♄42'29	0.56576 AU	morning rise	5818 Jun 07 01:31	5°♄48'01	
morning rise	5817 Jun 26 05:45	24°♄51'59		direct	5818 Jun 13 03:36	4°♄10'38	
direct	5817 Jul 01 11:25	23°♄47'00		morning max el	5818 Jun 27 12:52	11°♄54'40	27°07'05
	5817 Jul 14 12:13	0°♄			5818 Jul 11 16:21	0°♄	
morning max el	5817 Jul 15 18:05	1°♄09'21	25°52'32	morning set	5818 Jul 27 22:21	29°♄47'11	
	5817 Aug 04 23:40	0°♄		asc. node	5818 Jul 28 05:18	0°♄23'47	
asc. node	5817 Aug 10 08:16	10°♄29'37			5818 Jul 28 00:47	0°♄	
morning set	5817 Aug 12 13:13	15°♄06'08					
superior conj	5817 Aug 19 11:24	0°♄11'58	1°22'15	superior conj	5818 Aug 03 23:14	15°♄05'00	1°05'06
minimum elong	5817 Aug 19 09:11	29°♄59'45	1°21'57	minimum elong	5818 Aug 03 20:59	14°♄52'34	1°04'41
	5817 Aug 19 09:14	0°♄		max. Earth dist.	5818 Aug 03 18:54	14°♄41'03	1.31878 AU
max. Earth dist.	5817 Aug 20 08:02	2°♄05'30	1.32194 AU	evening rise	5818 Aug 10 18:49	29°♄57'20	
evening rise	5817 Aug 26 11:21	15°♄17'38			5818 Aug 10 19:19	0°♄	
	5817 Sep 02 22:44	0°♄			5818 Aug 27 03:51	0°♄	
desc. node	5817 Sep 15 07:42	20°♄14'07		desc. node	5818 Sep 02 04:45	8°♄27'45	
	5817 Sep 22 22:13	0°♄		evening max el	5818 Sep 09 06:11	16°♄20'57	26°31'07
evening max el	5817 Sep 27 04:35	4°♄26'49	27°15'59	retrograde	5818 Sep 23 04:38	23°♄28'50	
retrograde	5817 Oct 11 00:55	11°♄40'02		evening set	5818 Sep 29 21:48	21°♄36'37	
evening set	5817 Oct 18 03:49	9°♄20'21		min. Earth dist.	5818 Oct 03 19:50	19°♄01'29	0.59635 AU
min. Earth dist.	5817 Oct 21 19:13	6°♄32'48	0.61692 AU	inferior conj	5818 Oct 07 01:25	16°♄29'38	-4°43'13
inferior conj	5817 Oct 24 19:57	3°♄49'38	-3°48'40	minimum elong	5818 Oct 07 07:30	16°♄17'39	4°42'00
minimum elong	5817 Oct 25 02:17	3°♄35'23	3°46'46	morning rise	5818 Oct 14 19:20	11°♄52'55	
	5817 Oct 29 16:06	30°♄		direct	5818 Oct 17 03:03	11°♄33'33	
morning rise	5817 Nov 01 02:43	28°♄51'03		asc. node	5818 Oct 24 04:34	14°♄43'31	
direct	5817 Nov 03 09:56	28°♄28'34		morning max el	5818 Oct 24 20:14	15°♄19'55	18°16'32
asc. node	5817 Nov 06 07:32	29°♄05'39			5818 Nov 04 00:14	0°♄	
	5817 Nov 07 23:21	0°♄		morning set	5818 Nov 09 16:46	10°♄34'04	

superior conj	5818 Nov 19 00:09	28° $\mathbb{M}$ 00'45	1°08'50		5819 Oct 27 05:33	0° $\mathbb{M}$	
minimum elong	5818 Nov 19 03:57	28° $\mathbb{M}$ 18'01	1°08'23				
	5818 Nov 20 02:28	0° $\mathbb{A}$		superior conj	5819 Nov 01 23:23	11° $\mathbb{M}$ 13'47	1°28'58
max. Earth dist.	5818 Nov 26 14:25	11° $\mathbb{A}$ 24'07	1.40981 AU	minimum elong	5819 Nov 02 02:15	11° $\mathbb{M}$ 27'32	1°28'44
desc. node	5818 Nov 29 03:58	15° $\mathbb{A}$ 43'25		max. Earth dist.	5819 Nov 08 20:03	23° $\mathbb{M}$ 58'16	1.38867 AU
evening rise	5818 Dec 01 07:47	19° $\mathbb{A}$ 17'18			5819 Nov 12 06:13	0° $\mathbb{A}$	
	5818 Dec 08 01:22	0° $\mathbb{B}$		evening rise	5819 Nov 12 15:57	0° $\mathbb{A}$ 41'58	
	5818 Dec 29 07:14	0° $\approx$		desc. node	5819 Nov 16 00:59	6° $\mathbb{A}$ 24'41	
evening max el	5819 Jan 04 12:07	7° $\approx$ 00'33	23°15'20		5819 Dec 01 09:03	0° $\mathbb{B}$	
retrograde	5819 Jan 14 22:04	13° $\approx$ 10'19		evening max el	5819 Dec 18 01:22	20° $\mathbb{B}$ 43'04	24°34'24
evening set	5819 Jan 19 20:41	11° $\approx$ 07'53		retrograde	5819 Dec 29 12:56	27° $\mathbb{B}$ 25'22	
asc. node	5819 Jan 20 03:49	10° $\approx$ 52'27		evening set	5820 Jan 04 00:39	25° $\mathbb{B}$ 08'05	
inferior conj	5819 Jan 25 06:17	4° $\approx$ 42'51	1°38'25	asc. node	5820 Jan 07 00:51	21° $\mathbb{B}$ 57'21	
minimum elong	5819 Jan 25 04:17	4° $\approx$ 49'44	1°37'43	min. Earth dist.	5820 Jan 08 15:31	19° $\mathbb{B}$ 52'59	0.67780 AU
min. Earth dist.	5819 Jan 24 19:50	5° $\approx$ 18'46	0.68145 AU	inferior conj	5820 Jan 09 13:02	18° $\mathbb{B}$ 41'17	0°50'09
	5819 Jan 28 23:51	30° $\mathbb{R}$ $\mathbb{B}$		minimum elong	5820 Jan 09 11:52	18° $\mathbb{B}$ 45'11	0°49'42
morning rise	5819 Jan 30 11:48	28° $\mathbb{B}$ 36'07		morning rise	5820 Jan 14 23:12	12° $\mathbb{B}$ 40'52	
direct	5819 Feb 03 19:00	26° $\mathbb{B}$ 53'30		direct	5820 Jan 18 17:12	11° $\mathbb{B}$ 20'20	
	5819 Feb 10 08:33	0° $\approx$		morning max el	5820 Jan 26 06:51	15° $\mathbb{B}$ 36'52	20°00'08
morning max el	5819 Feb 12 07:47	1° $\approx$ 49'34	21°12'28		5820 Feb 06 13:09	0° $\approx$	
desc. node	5819 Feb 25 03:15	18° $\approx$ 00'15		desc. node	5820 Feb 12 00:15	8° $\approx$ 01'54	
	5819 Mar 05 08:21	0° $\mathbb{H}$		morning set	5820 Feb 22 03:23	23° $\approx$ 26'14	
morning set	5819 Mar 15 06:21	15° $\mathbb{H}$ 13'30			5820 Feb 26 08:55	0° $\mathbb{H}$	
max. Earth dist.	5819 Mar 22 13:53	26° $\mathbb{H}$ 57'47	1.42423 AU	max. Earth dist.	5820 Mar 03 23:50	10° $\mathbb{H}$ 26'38	1.44054 AU
	5819 Mar 24 10:07	0° $\mathbb{Y}$					
				superior conj	5820 Mar 09 09:30	19° $\mathbb{H}$ 09'42	-2°08'08
superior conj	5819 Mar 29 20:45	9° $\mathbb{Y}$ 10'14	-2°06'45	minimum elong	5820 Mar 09 06:52	18° $\mathbb{H}$ 58'54	2°08'04
minimum elong	5819 Mar 29 23:40	9° $\mathbb{Y}$ 22'45	2°06'40		5820 Mar 15 22:34	0° $\mathbb{Y}$	
evening rise	5819 Apr 10 06:39	29° $\mathbb{Y}$ 20'54		evening rise	5820 Mar 22 12:14	11° $\mathbb{Y}$ 10'36	
	5819 Apr 10 15:18	0° $\mathbb{B}$			5820 Apr 02 17:52	0° $\mathbb{B}$	
asc. node	5819 Apr 18 03:04	13° $\mathbb{B}$ 15'11		asc. node	5820 Apr 04 00:06	1° $\mathbb{B}$ 54'21	
evening max el	5819 Apr 26 20:44	25° $\mathbb{B}$ 29'10	18°07'25	evening max el	5820 Apr 09 09:36	8° $\mathbb{B}$ 44'07	18°10'16
retrograde	5819 May 03 13:11	28° $\mathbb{B}$ 53'32		retrograde	5820 Apr 15 19:30	12° $\mathbb{B}$ 06'52	
evening set	5819 May 06 03:30	28° $\mathbb{B}$ 22'57		evening set	5820 Apr 18 16:15	11° $\mathbb{B}$ 24'32	
inferior conj	5819 May 12 19:54	23° $\mathbb{B}$ 27'29	2°48'53	inferior conj	5820 Apr 24 19:39	6° $\mathbb{B}$ 09'38	3°20'13
minimum elong	5819 May 12 22:57	23° $\mathbb{B}$ 20'13	2°48'13	minimum elong	5820 Apr 24 21:20	6° $\mathbb{B}$ 05'06	3°20'00
min. Earth dist.	5819 May 16 01:44	20° $\mathbb{B}$ 24'05	0.60730 AU	min. Earth dist.	5820 Apr 27 13:21	3° $\mathbb{B}$ 13'27	0.62880 AU
morning rise	5819 May 19 16:09	17° $\mathbb{B}$ 34'08		morning rise	5820 May 01 01:03	0° $\mathbb{B}$ 02'42	
desc. node	5819 May 24 02:32	15° $\mathbb{B}$ 38'13			5820 May 01 02:29	30° $\mathbb{R}$ $\mathbb{Y}$	
direct	5819 May 26 07:28	15° $\mathbb{B}$ 24'02		direct	5820 May 07 21:01	27° $\mathbb{Y}$ 27'23	
morning max el	5819 Jun 09 14:17	23° $\mathbb{B}$ 20'24	27°47'39	desc. node	5820 May 09 23:33	27° $\mathbb{Y}$ 40'51	
	5819 Jun 15 13:01	0° $\mathbb{I}$			5820 May 15 07:21	0° $\mathbb{B}$	
	5819 Jul 04 21:16	0° $\mathbb{E}$		morning max el	5820 May 21 21:15	5° $\mathbb{B}$ 28'27	27°50'11
morning set	5819 Jul 12 03:36	14° $\mathbb{E}$ 14'27			5820 Jun 09 09:25	0° $\mathbb{I}$	
asc. node	5819 Jul 15 02:19	20° $\mathbb{E}$ 26'40		morning set	5820 Jun 25 02:46	28° $\mathbb{I}$ 20'36	
max. Earth dist.	5819 Jul 18 05:18	27° $\mathbb{E}$ 13'07	1.31988 AU		5820 Jun 25 22:24	0° $\mathbb{E}$	
				max. Earth dist.	5820 Jun 30 11:09	9° $\mathbb{E}$ 27'56	1.32534 AU
superior conj	5819 Jul 19 10:16	29° $\mathbb{E}$ 52'08	0°43'43	asc. node	5820 Jun 30 23:21	10° $\mathbb{E}$ 33'10	
minimum elong	5819 Jul 19 08:28	29° $\mathbb{E}$ 42'14	0°43'19				
	5819 Jul 19 11:42	0° $\mathbb{Q}$		superior conj	5820 Jul 02 18:41	14° $\mathbb{E}$ 26'50	0°18'39
evening rise	5819 Jul 26 05:25	14° $\mathbb{Q}$ 43'31		minimum elong	5820 Jul 02 17:48	14° $\mathbb{E}$ 22'06	0°18'25
	5819 Aug 02 19:40	0° $\mathbb{P}$		evening rise	5820 Jul 09 17:09	29° $\mathbb{E}$ 29'04	
desc. node	5819 Aug 20 01:46	25° $\mathbb{P}$ 28'56			5820 Jul 09 22:58	0° $\mathbb{Q}$	
evening max el	5819 Aug 21 23:57	27° $\mathbb{P}$ 25'20	25°15'59		5820 Jul 26 18:37	0° $\mathbb{P}$	
	5819 Aug 24 23:05	0° $\mathbb{L}$		evening max el	5820 Aug 02 12:16	7° $\mathbb{P}$ 51'51	23°41'48
retrograde	5819 Sep 04 22:02	4° $\mathbb{L}$ 28'05		desc. node	5820 Aug 05 22:47	10° $\mathbb{P}$ 48'58	
evening set	5819 Sep 10 16:32	3° $\mathbb{L}$ 11'43		retrograde	5820 Aug 16 03:44	14° $\mathbb{P}$ 42'53	
min. Earth dist.	5819 Sep 15 11:32	0° $\mathbb{L}$ 31'15	0.57622 AU	evening set	5820 Aug 20 11:32	14° $\mathbb{P}$ 01'46	
	5819 Sep 16 06:19	30° $\mathbb{R}$ $\mathbb{P}$		min. Earth dist.	5820 Aug 26 22:15	10° $\mathbb{P}$ 57'48	0.55939 AU
inferior conj	5819 Sep 18 11:53	28° $\mathbb{P}$ 28'27	-5°17'17	inferior conj	5820 Aug 29 02:04	9° $\mathbb{P}$ 40'01	-5°14'22
minimum elong	5819 Sep 18 14:35	28° $\mathbb{P}$ 23'51	5°17'06	minimum elong	5820 Aug 28 22:19	9° $\mathbb{P}$ 45'41	5°14'03
morning rise	5819 Sep 26 14:55	24° $\mathbb{P}$ 14'54		morning rise	5820 Sep 06 11:32	5° $\mathbb{P}$ 45'12	
direct	5819 Sep 29 03:05	23° $\mathbb{P}$ 56'11		direct	5820 Sep 09 07:17	5° $\mathbb{P}$ 25'17	
morning max el	5819 Oct 07 22:50	28° $\mathbb{P}$ 07'18	19°00'38	morning max el	5820 Sep 19 14:17	10° $\mathbb{P}$ 12'51	20°06'52
	5819 Oct 09 18:07	0° $\mathbb{L}$		asc. node	5820 Sep 26 22:37	19° $\mathbb{P}$ 22'04	
asc. node	5819 Oct 11 01:36	1° $\mathbb{L}$ 34'06			5820 Oct 03 01:39	0° $\mathbb{L}$	
morning set	5819 Oct 24 15:08	24° $\mathbb{L}$ 51'12		morning set	5820 Oct 07 20:04	9° $\mathbb{L}$ 26'25	

superior conj	5820 Oct 15 12:28	25° $\Omega$ 07'19	1°39'56			5821 Sep 08 20:47	0° $\mathbb{M}$	
minimum elong	5820 Oct 15 13:51	25° $\Omega$ 14'17	1°39'54	asc. node		5821 Sep 13 19:39	7° $\mathbb{M}$ 54'07	
	5820 Oct 17 23:23	0° $\mathbb{M}$		morning set		5821 Sep 22 05:07	24° $\mathbb{M}$ 12'36	
max. Earth dist.	5820 Oct 21 01:53	5° $\mathbb{M}$ 59'51	1.36796 AU			5821 Sep 24 23:15	0° $\Omega$	
evening rise	5820 Oct 24 21:24	13° $\mathbb{M}$ 04'49						
desc. node	5820 Nov 01 22:00	26° $\mathbb{M}$ 57'20		superior conj		5821 Sep 29 11:16	9° $\Omega$ 28'44	1°43'01
	5820 Nov 03 18:54	0° $\mathbb{M}$		minimum elong		5821 Sep 29 11:11	9° $\Omega$ 28'22	1°43'03
	5820 Nov 25 08:47	0° $\mathbb{Z}$		max. Earth dist.		5821 Oct 03 13:21	17° $\Omega$ 51'33	1.34989 AU
evening max el	5820 Nov 29 13:56	4° $\mathbb{Z}$ 27'29	25°46'21	evening rise		5821 Oct 07 20:19	26° $\Omega$ 15'45	
retrograde	5820 Dec 11 23:16	11° $\mathbb{Z}$ 32'36				5821 Oct 09 20:00	0° $\mathbb{M}$	
evening set	5820 Dec 18 00:18	9° $\mathbb{Z}$ 02'53		desc. node		5821 Oct 19 19:02	17° $\mathbb{M}$ 15'51	
min. Earth dist.	5820 Dec 22 07:58	4° $\mathbb{Z}$ 22'23	0.67054 AU			5821 Oct 28 04:27	0° $\mathbb{M}$	
inferior conj	5820 Dec 23 16:37	2° $\mathbb{Z}$ 39'04	-0°04'28	evening max el		5821 Nov 12 02:46	18° $\mathbb{M}$ 08'18	26°43'48
minimum elong	5820 Dec 23 16:44	2° $\mathbb{Z}$ 38'42	0°04'23	retrograde		5821 Nov 25 04:17	25° $\mathbb{M}$ 24'46	
transit middle	5820 Dec 23 16:44	2° $\mathbb{Z}$ 38'42	0°04'23	evening set		5821 Dec 01 17:39	22° $\mathbb{M}$ 47'13	
transit begin	5820 Dec 23 14:01	2° $\mathbb{Z}$ 47'19		min. Earth dist.		5821 Dec 05 18:51	18° $\mathbb{M}$ 41'45	0.65976 AU
transit end	5820 Dec 23 19:27	2° $\mathbb{Z}$ 30'06		inferior conj		5821 Dec 07 14:59	16° $\mathbb{M}$ 31'41	-1°04'26
asc. node	5820 Dec 23 21:53	2° $\mathbb{Z}$ 22'24		minimum elong		5821 Dec 07 16:48	16° $\mathbb{M}$ 26'20	1°03'38
	5820 Dec 25 20:43	30° $\mathbb{R}$ $\mathbb{M}$		asc. node		5821 Dec 10 18:55	13° $\mathbb{M}$ 02'59	
morning rise	5820 Dec 29 09:37	26° $\mathbb{M}$ 46'57		morning rise		5821 Dec 13 16:49	10° $\mathbb{M}$ 50'23	
direct	5821 Jan 01 15:59	25° $\mathbb{M}$ 45'47		direct		5821 Dec 16 13:34	10° $\mathbb{M}$ 04'50	
morning max el	5821 Jan 08 13:44	29° $\mathbb{M}$ 34'38	19°02'26	morning max el		5821 Dec 23 02:37	13° $\mathbb{M}$ 36'59	18°20'50
	5821 Jan 08 23:44	0° $\mathbb{Z}$				5822 Jan 03 23:07	0° $\mathbb{Z}$	
desc. node	5821 Jan 28 21:15	28° $\mathbb{Z}$ 21'42		morning set		5822 Jan 11 14:21	12° $\mathbb{Z}$ 13'31	
	5821 Jan 29 22:33	0° $\approx$		desc. node		5822 Jan 15 18:15	18° $\mathbb{Z}$ 54'02	
morning set	5821 Jan 31 07:45	2° $\approx$ 09'10				5822 Jan 22 17:59	0° $\approx$	
max. Earth dist.	5821 Feb 14 15:24	24° $\approx$ 31'28	1.45070 AU					
				superior conj		5822 Jan 27 02:24	6° $\approx$ 50'47	-1°13'51
superior conj	5821 Feb 16 23:06	28° $\approx$ 10'51	-1°50'12	minimum elong		5822 Jan 26 17:49	6° $\approx$ 17'02	1°12'48
minimum elong	5821 Feb 16 14:35	27° $\approx$ 37'14	1°49'32	max. Earth dist.		5822 Jan 28 10:05	8° $\approx$ 54'59	1.45371 AU
	5821 Feb 18 02:43	0° $\mathbb{H}$				5822 Feb 10 21:15	0° $\mathbb{H}$	
evening rise	5821 Mar 03 19:42	22° $\mathbb{H}$ 03'24		evening rise		5822 Feb 12 03:58	2° $\mathbb{H}$ 00'34	
	5821 Mar 08 16:10	0° $\mathbb{Y}$		greatest brilliancy		5822 Feb 22 20:42	18° $\mathbb{H}$ 44'10	-0.8m
asc. node	5821 Mar 21 21:09	19° $\mathbb{Y}$ 55'12				5822 Mar 02 13:06	0° $\mathbb{Y}$	
evening max el	5821 Mar 23 21:48	22° $\mathbb{Y}$ 10'35	18°31'42	evening max el		5822 Mar 07 06:59	5° $\mathbb{Y}$ 42'35	19°10'40
retrograde	5821 Mar 30 10:25	25° $\mathbb{Y}$ 44'43		asc. node		5822 Mar 08 18:12	7° $\mathbb{Y}$ 05'36	
evening set	5821 Apr 02 13:40	24° $\mathbb{Y}$ 49'38		retrograde		5822 Mar 14 06:16	9° $\mathbb{Y}$ 39'27	
inferior conj	5821 Apr 08 07:55	19° $\mathbb{Y}$ 17'00	3°30'44	evening set		5822 Mar 17 16:42	8° $\mathbb{Y}$ 30'44	
minimum elong	5821 Apr 08 08:03	19° $\mathbb{Y}$ 16'38	3°30'43	inferior conj		5822 Mar 23 05:03	2° $\mathbb{Y}$ 42'03	3°25'21
min. Earth dist.	5821 Apr 10 10:29	16° $\mathbb{Y}$ 46'44	0.64761 AU	minimum elong		5822 Mar 23 03:54	2° $\mathbb{Y}$ 45'45	3°25'14
morning rise	5821 Apr 14 01:43	13° $\mathbb{Y}$ 03'41		min. Earth dist.		5822 Mar 24 16:13	0° $\mathbb{Y}$ 49'18	0.66254 AU
direct	5821 Apr 20 18:44	10° $\mathbb{Y}$ 15'30				5822 Mar 25 07:59	30° $\mathbb{R}$ $\mathbb{H}$	
desc. node	5821 Apr 26 20:34	12° $\mathbb{Y}$ 08'06		morning rise		5822 Mar 28 14:44	26° $\mathbb{H}$ 26'46	
morning max el	5821 May 04 07:04	18° $\mathbb{Y}$ 10'44	27°17'18	direct		5822 Apr 03 23:05	23° $\mathbb{H}$ 38'58	
	5821 May 14 05:27	0° $\mathbb{B}$		desc. node		5822 Apr 13 17:33	28° $\mathbb{H}$ 26'09	
	5821 Jun 02 07:32	0° $\mathbb{I}$				5822 Apr 15 10:49	0° $\mathbb{Y}$	
morning set	5821 Jun 08 17:09	11° $\mathbb{I}$ 58'02		morning max el		5822 Apr 16 16:59	1° $\mathbb{Y}$ 14'11	26°16'11
max. Earth dist.	5821 Jun 13 08:29	21° $\mathbb{I}$ 15'03	1.35343 AU			5822 May 08 06:40	0° $\mathbb{B}$	
				morning set		5822 May 22 19:10	24° $\mathbb{B}$ 56'21	
superior conj	5821 Jun 16 22:32	28° $\mathbb{I}$ 43'48	-0°09'24			5822 May 25 11:14	0° $\mathbb{I}$	
minimum elong	5821 Jun 16 23:01	28° $\mathbb{I}$ 46'24	0°09'19	max. Earth dist.		5822 May 26 18:44	2° $\mathbb{I}$ 32'36	1.35022 AU
behind sun begin	5821 Jun 16 18:30	28° $\mathbb{I}$ 22'27						
behind sun end	5821 Jun 17 03:33	29° $\mathbb{I}$ 10'22		superior conj		5822 May 31 19:28	12° $\mathbb{I}$ 36'25	-0°39'17
asc. node	5821 Jun 17 20:23	0° $\mathbb{B}$ 39'37		minimum elong		5822 May 31 21:39	12° $\mathbb{I}$ 47'35	0°38'52
	5821 Jun 17 12:55	0° $\mathbb{B}$		asc. node		5822 Jun 04 17:27	20° $\mathbb{I}$ 42'09	
evening rise	5821 Jun 24 04:13	14° $\mathbb{B}$ 08'32		evening rise		5822 Jun 08 12:37	28° $\mathbb{I}$ 36'02	
	5821 Jul 02 04:35	0° $\Omega$				5822 Jun 09 04:56	0° $\mathbb{B}$	
evening max el	5821 Jul 15 02:53	18° $\Omega$ 12'34	22°04'35	evening max el		5822 Jun 27 03:34	29° $\mathbb{B}$ 00'14	20°38'12
desc. node	5821 Jul 23 19:49	23° $\Omega$ 54'22				5822 Jun 28 05:06	0° $\Omega$	
retrograde	5821 Jul 27 21:40	24° $\Omega$ 33'14		retrograde		5822 Jul 08 09:56	4° $\Omega$ 32'15	
evening set	5821 Jul 30 18:27	24° $\Omega$ 14'56		evening set		5822 Jul 10 11:03	4° $\Omega$ 22'04	
min. Earth dist.	5821 Aug 08 08:04	20° $\Omega$ 33'35	0.54932 AU	desc. node		5822 Jul 10 16:50	4° $\Omega$ 19'34	
inferior conj	5821 Aug 09 00:04	20° $\Omega$ 11'05	-4°20'14	inferior conj		5822 Jul 19 17:17	0° $\Omega$ 25'11	-2°39'23
minimum elong	5821 Aug 08 15:20	20° $\Omega$ 23'22	4°18'11	minimum elong		5822 Jul 19 10:01	0° $\Omega$ 35'37	2°36'53
morning rise	5821 Aug 17 13:50	16° $\Omega$ 21'14				5822 Jul 20 10:50	30° $\mathbb{R}$ $\mathbb{B}$	
direct	5821 Aug 20 19:57	15° $\Omega$ 57'41		min. Earth dist.		5822 Jul 20 19:02	29° $\mathbb{B}$ 48'15	0.54844 AU
morning max el	5821 Sep 01 17:27	21° $\Omega$ 31'51	21°33'43	morning rise		5822 Jul 28 08:27	26° $\mathbb{B}$ 20'49	

direct	5822 Aug 01 05:27	25° $\text{☿}$ 48'31		morning rise	5823 Jul 08 06:19	6° $\text{☿}$ 17'12	
	5822 Aug 11 21:21	0° $\Omega$		direct	5823 Jul 12 23:16	5° $\text{☿}$ 27'26	
morning max el	5822 Aug 14 10:45	2° $\Omega$ 11'02	23°15'00	morning max el	5823 Jul 27 00:03	12° $\text{☿}$ 30'34	24°58'31
asc. node	5822 Aug 31 16:42	26° $\Omega$ 59'46			5823 Aug 09 12:12	0° $\Omega$	
	5822 Sep 02 05:57	0° $\text{☿}$		asc. node	5823 Aug 18 13:44	16° $\Omega$ 29'32	
morning set	5822 Sep 06 16:24	9° $\text{☿}$ 04'38		morning set	5823 Aug 22 04:07	23° $\Omega$ 56'23	
					5823 Aug 24 23:41	0° $\text{☿}$	
superior conj	5822 Sep 13 16:41	24° $\text{☿}$ 08'56	1°39'25	superior conj	5823 Aug 29 02:09	8° $\text{☿}$ 59'01	1°30'01
minimum elong	5822 Sep 13 15:27	24° $\text{☿}$ 02'18	1°39'21	minimum elong	5823 Aug 29 00:09	8° $\text{☿}$ 48'08	1°29'47
	5822 Sep 16 10:40	0° $\Omega$		max. Earth dist.	5823 Aug 30 14:09	12° $\text{☿}$ 15'34	1.32575 AU
max. Earth dist.	5822 Sep 16 09:45	29° $\text{☿}$ 55'09	1.33569 AU	evening rise	5823 Sep 05 06:33	24° $\text{☿}$ 18'51	
evening rise	5822 Sep 21 08:37	10° $\Omega$ 04'13			5823 Sep 08 02:22	0° $\Omega$	
	5822 Oct 02 05:12	0° $\text{☿}$		desc. node	5823 Sep 23 13:08	26° $\Omega$ 41'28	
desc. node	5822 Oct 06 16:06	7° $\text{☿}$ 13'48			5823 Sep 25 19:58	0° $\text{☿}$	
	5822 Oct 24 00:26	0° $\text{☿}$		evening max el	5823 Oct 08 01:42	14° $\text{☿}$ 36'50	27°26'28
evening max el	5822 Oct 25 15:25	1° $\text{☿}$ 36'12	27°19'19	retrograde	5823 Oct 21 19:23	21° $\text{☿}$ 51'52	
retrograde	5822 Nov 08 03:14	8° $\text{☿}$ 54'24		evening set	5823 Oct 28 23:20	19° $\text{☿}$ 21'56	
evening set	5822 Nov 15 02:22	6° $\text{☿}$ 15'58		min. Earth dist.	5823 Nov 01 15:01	16° $\text{☿}$ 21'04	0.62817 AU
min. Earth dist.	5822 Nov 18 21:54	2° $\text{☿}$ 44'43	0.64557 AU	inferior conj	5823 Nov 04 10:19	13° $\text{☿}$ 39'06	-3°12'49
inferior conj	5822 Nov 21 05:51	0° $\text{☿}$ 14'17	-2°08'07	minimum elong	5823 Nov 04 15:57	13° $\text{☿}$ 25'31	3°10'52
minimum elong	5822 Nov 21 09:37	0° $\text{☿}$ 04'06	2°06'36	morning rise	5823 Nov 11 10:17	8° $\text{☿}$ 29'03	
	5822 Nov 21 11:09	30° $\text{☿}$		direct	5823 Nov 13 19:01	8° $\text{☿}$ 03'15	
morning rise	5822 Nov 27 18:10	24° $\text{☿}$ 46'49		asc. node	5823 Nov 14 12:58	8° $\text{☿}$ 05'54	
asc. node	5822 Nov 27 15:57	24° $\text{☿}$ 49'17		morning max el	5823 Nov 20 11:45	11° $\text{☿}$ 29'33	17°49'14
direct	5822 Nov 30 07:36	24° $\text{☿}$ 12'58			5823 Dec 02 22:30	0° $\text{☿}$	
morning max el	5822 Dec 06 18:58	27° $\text{☿}$ 37'53	17°56'12	morning set	5823 Dec 06 14:02	6° $\text{☿}$ 25'09	
	5822 Dec 08 22:08	0° $\text{☿}$					
morning set	5822 Dec 24 02:18	23° $\text{☿}$ 45'10		superior conj	5823 Dec 18 04:42	26° $\text{☿}$ 29'28	0°16'28
	5822 Dec 27 19:49	0° $\text{☿}$		minimum elong	5823 Dec 18 06:19	26° $\text{☿}$ 36'13	0°16'15
desc. node	5823 Jan 02 15:18	9° $\text{☿}$ 35'07			5823 Dec 20 07:17	0° $\text{☿}$	
				desc. node	5823 Dec 20 12:22	0° $\text{☿}$ 20'58	
superior conj	5823 Jan 06 15:39	16° $\text{☿}$ 04'47	-0°27'57	max. Earth dist.	5823 Dec 24 22:38	7° $\text{☿}$ 34'18	1.43797 AU
minimum elong	5823 Jan 06 12:20	15° $\text{☿}$ 51'26	0°27'26	evening rise	5824 Jan 02 05:51	20° $\text{☿}$ 39'58	
max. Earth dist.	5823 Jan 11 05:32	23° $\text{☿}$ 22'09	1.44931 AU		5824 Jan 08 08:31	0° $\text{☿}$	
	5823 Jan 15 10:54	0° $\text{☿}$			5824 Jan 29 19:23	0° $\text{☿}$	
evening rise	5823 Jan 22 18:56	11° $\text{☿}$ 21'34		evening max el	5824 Feb 01 10:26	2° $\text{☿}$ 52'56	21°12'52
	5823 Feb 04 01:34	0° $\text{☿}$		retrograde	5824 Feb 10 02:25	8° $\text{☿}$ 00'46	
greatest brilliancy	5823 Feb 06 10:37	3° $\text{☿}$ 30'49	-0.6m	asc. node	5824 Feb 10 12:15	7° $\text{☿}$ 59'52	
evening max el	5823 Feb 18 11:29	19° $\text{☿}$ 17'12	20°05'18	evening set	5824 Feb 14 06:49	6° $\text{☿}$ 22'29	
asc. node	5823 Feb 23 15:14	23° $\text{☿}$ 12'02		inferior conj	5824 Feb 19 14:45	0° $\text{☿}$ 08'14	2°39'36
retrograde	5823 Feb 26 04:19	23° $\text{☿}$ 46'11		minimum elong	5824 Feb 19 12:23	0° $\text{☿}$ 16'23	2°39'00
evening set	5823 Mar 01 23:03	22° $\text{☿}$ 23'01			5824 Feb 19 17:07	30° $\text{☿}$	
inferior conj	5823 Mar 07 08:07	16° $\text{☿}$ 20'16	3°07'32	min. Earth dist.	5824 Feb 19 22:31	29° $\text{☿}$ 41'18	0.67951 AU
minimum elong	5823 Mar 07 06:08	16° $\text{☿}$ 26'58	3°07'11	morning rise	5824 Feb 24 17:48	23° $\text{☿}$ 55'22	
min. Earth dist.	5823 Mar 08 04:54	15° $\text{☿}$ 10'12	0.67318 AU	direct	5824 Feb 29 23:30	21° $\text{☿}$ 37'38	
morning rise	5823 Mar 12 13:00	10° $\text{☿}$ 05'25		morning max el	5824 Mar 11 10:58	27° $\text{☿}$ 51'30	23°27'28
direct	5823 Mar 18 08:57	7° $\text{☿}$ 29'03			5824 Mar 13 11:35	0° $\text{☿}$	
morning max el	5823 Mar 30 01:55	14° $\text{☿}$ 29'12	24°56'09	desc. node	5824 Mar 17 11:37	4° $\text{☿}$ 42'11	
desc. node	5823 Mar 31 14:35	16° $\text{☿}$ 05'05			5824 Apr 04 10:09	0° $\text{☿}$	
	5823 Apr 11 17:47	0° $\text{☿}$		morning set	5824 Apr 15 13:50	17° $\text{☿}$ 58'58	
	5823 May 01 03:14	0° $\text{☿}$		max. Earth dist.	5824 Apr 19 14:40	24° $\text{☿}$ 55'01	1.39097 AU
morning set	5823 May 05 03:59	7° $\text{☿}$ 01'35			5824 Apr 22 11:31	0° $\text{☿}$	
max. Earth dist.	5823 May 08 18:54	13° $\text{☿}$ 35'22	1.36928 AU				
				superior conj	5824 Apr 27 03:34	8° $\text{☿}$ 32'47	-1°37'13
superior conj	5823 May 15 06:25	25° $\text{☿}$ 55'55	-1°09'24	minimum elong	5824 Apr 27 08:41	8° $\text{☿}$ 56'38	1°36'37
minimum elong	5823 May 15 10:20	26° $\text{☿}$ 15'12	1°08'46	evening rise	5824 May 06 11:35	26° $\text{☿}$ 25'43	
	5823 May 17 07:51	0° $\text{☿}$		asc. node	5824 May 08 11:33	0° $\text{☿}$ 16'51	
asc. node	5823 May 22 14:30	10° $\text{☿}$ 36'02			5824 May 08 08:02	0° $\text{☿}$	
evening rise	5823 May 23 16:00	12° $\text{☿}$ 44'17		evening max el	5824 May 22 17:08	22° $\text{☿}$ 38'11	18°41'57
	5823 Jun 01 20:50	0° $\text{☿}$		retrograde	5824 May 30 18:39	26° $\text{☿}$ 36'46	
evening max el	5823 Jun 09 16:51	10° $\text{☿}$ 28'51	19°29'53	evening set	5824 Jun 01 21:46	26° $\text{☿}$ 21'06	
retrograde	5823 Jun 19 05:39	15° $\text{☿}$ 09'02		inferior conj	5824 Jun 09 18:27	21° $\text{☿}$ 57'48	1°03'44
evening set	5823 Jun 21 03:41	14° $\text{☿}$ 58'30		minimum elong	5824 Jun 09 20:43	21° $\text{☿}$ 53'32	1°02'56
desc. node	5823 Jun 27 13:52	12° $\text{☿}$ 17'25		min. Earth dist.	5824 Jun 13 01:12	19° $\text{☿}$ 31'39	0.57351 AU
inferior conj	5823 Jun 29 20:06	10° $\text{☿}$ 52'55	-0°40'43	desc. node	5824 Jun 13 10:53	19° $\text{☿}$ 14'35	
minimum elong	5823 Jun 29 18:17	10° $\text{☿}$ 55'50	0°40'03	morning rise	5824 Jun 17 16:20	16° $\text{☿}$ 45'28	
min. Earth dist.	5823 Jul 02 08:09	9° $\text{☿}$ 17'08	0.55711 AU				



direct	5824 Jun 23 07:00	15° $\Pi$ 27'41		desc. node	5825 May 31 07:54	27° $\mathcal{B}$ 16'53	
morning max el	5824 Jul 07 15:53	23° $\Pi$ 00'18	26°27'57	direct	5825 Jun 05 04:34	26° $\mathcal{B}$ 11'16	
	5824 Jul 13 22:01	0° $\mathcal{E}$			5825 Jun 14 21:25	0° $\Pi$	
	5824 Aug 01 08:39	0° $\mathcal{Q}$		morning max el	5825 Jun 19 13:41	4° $\Pi$ 02'28	27°28'52
asc. node	5824 Aug 04 10:48	6° $\mathcal{Q}$ 16'39			5825 Jul 08 15:20	0° $\mathcal{E}$	
morning set	5824 Aug 05 14:41	8° $\mathcal{Q}$ 43'00		morning set	5825 Jul 20 22:25	23° $\mathcal{E}$ 19'03	
				asc. node	5825 Jul 22 07:50	26° $\mathcal{E}$ 15'13	
superior conj	5824 Aug 12 13:37	23° $\mathcal{Q}$ 52'41	1°15'31		5825 Jul 24 01:44	0° $\mathcal{Q}$	
minimum elong	5824 Aug 12 11:20	23° $\mathcal{Q}$ 40'02	1°15'09	max. Earth dist.	5825 Jul 27 10:40	7° $\mathcal{Q}$ 23'02	1.31866 AU
max. Earth dist.	5824 Aug 12 23:39	24° $\mathcal{Q}$ 48'05	1.32009 AU				
	5824 Aug 15 08:21	0° $\mathcal{M}$		superior conj	5825 Jul 28 01:20	8° $\mathcal{Q}$ 44'00	0°56'30
evening rise	5824 Aug 19 11:14	8° $\mathcal{M}$ 51'17		minimum elong	5825 Jul 27 23:13	8° $\mathcal{Q}$ 32'19	0°56'06
	5824 Aug 30 11:09	0° $\mathcal{A}$		evening rise	5825 Aug 03 20:15	23° $\mathcal{Q}$ 34'19	
desc. node	5824 Sep 09 10:09	15° $\mathcal{A}$ 26'42			5825 Aug 06 22:18	0° $\mathcal{M}$	
evening max el	5824 Sep 19 06:58	26° $\mathcal{A}$ 57'09	27°00'51		5825 Aug 24 17:40	0° $\mathcal{A}$	
	5824 Sep 22 20:56	0° $\mathcal{M}$		desc. node	5825 Aug 27 07:10	3° $\mathcal{A}$ 12'40	
retrograde	5824 Oct 03 04:07	4° $\mathcal{M}$ 08'08		evening max el	5825 Sep 01 05:05	8° $\mathcal{A}$ 29'27	26°02'22
evening set	5824 Oct 10 04:33	1° $\mathcal{M}$ 58'24		retrograde	5825 Sep 15 04:10	15° $\mathcal{A}$ 36'20	
	5824 Oct 13 00:27	30° $\mathcal{R}$ $\mathcal{A}$		evening set	5825 Sep 21 13:14	13° $\mathcal{A}$ 58'33	
min. Earth dist.	5824 Oct 13 21:17	29° $\mathcal{A}$ 18'25	0.60829 AU	min. Earth dist.	5825 Sep 25 17:52	11° $\mathcal{A}$ 23'27	0.58750 AU
inferior conj	5824 Oct 17 01:09	26° $\mathcal{A}$ 37'46	-4°13'27	inferior conj	5825 Sep 28 22:53	9° $\mathcal{A}$ 01'28	-5°01'06
minimum elong	5824 Oct 17 07:41	26° $\mathcal{A}$ 23'54	4°11'44	minimum elong	5825 Sep 29 04:00	8° $\mathcal{A}$ 52'00	5°00'22
morning rise	5824 Oct 24 12:52	21° $\mathcal{A}$ 48'32		morning rise	5825 Oct 06 21:02	4° $\mathcal{A}$ 34'57	
direct	5824 Oct 26 19:55	21° $\mathcal{A}$ 27'40		direct	5825 Oct 09 05:59	4° $\mathcal{A}$ 16'17	
asc. node	5824 Oct 31 10:01	22° $\mathcal{A}$ 55'07		morning max el	5825 Oct 17 09:37	8° $\mathcal{A}$ 12'03	18°32'41
morning max el	5824 Nov 03 01:46	25° $\mathcal{A}$ 03'56	18°00'55	asc. node	5825 Oct 18 07:04	9° $\mathcal{A}$ 06'10	
	5824 Nov 07 04:16	0° $\mathcal{M}$			5825 Oct 31 11:01	0° $\mathcal{M}$	
morning set	5824 Nov 18 19:04	19° $\mathcal{M}$ 53'44		morning set	5825 Nov 02 12:17	3° $\mathcal{M}$ 56'42	
	5824 Nov 24 06:41	0° $\mathcal{X}$					
superior conj	5824 Nov 28 19:47	8° $\mathcal{X}$ 09'33	0°52'39	superior conj	5825 Nov 11 08:51	20° $\mathcal{M}$ 53'30	1°18'34
minimum elong	5824 Nov 28 23:28	8° $\mathcal{X}$ 25'51	0°52'09	minimum elong	5825 Nov 11 12:23	21° $\mathcal{M}$ 09'53	1°18'12
desc. node	5824 Dec 06 09:23	21° $\mathcal{X}$ 07'51			5825 Nov 16 08:50	0° $\mathcal{X}$	
max. Earth dist.	5824 Dec 06 10:45	21° $\mathcal{X}$ 13'31	1.42109 AU	max. Earth dist.	5825 Nov 18 17:44	4° $\mathcal{X}$ 10'16	1.40084 AU
	5824 Dec 11 19:57	0° $\mathcal{Z}$		evening rise	5825 Nov 22 23:02	11° $\mathcal{X}$ 21'53	
evening rise	5824 Dec 12 03:57	0° $\mathcal{Z}$ 31'57		desc. node	5825 Nov 23 06:24	11° $\mathcal{X}$ 52'37	
	5824 Dec 31 21:27	0° $\approx$			5825 Dec 04 17:20	0° $\mathcal{Z}$	
evening max el	5825 Jan 14 04:14	16° $\approx$ 29'57	22°29'23	evening max el	5825 Dec 27 18:36	0° $\approx$ 10'42	23°49'25
retrograde	5825 Jan 23 22:48	22° $\approx$ 18'33		retrograde	5826 Jan 07 16:05	6° $\approx$ 36'01	
asc. node	5825 Jan 27 09:16	21° $\approx$ 17'10		evening set	5826 Jan 12 20:03	4° $\approx$ 27'14	
evening set	5825 Jan 28 14:20	20° $\approx$ 24'54		asc. node	5826 Jan 14 06:17	3° $\approx$ 05'10	
inferior conj	5825 Feb 02 22:52	14° $\approx$ 02'28	2°03'02		5826 Jan 16 19:22	30° $\mathcal{R}$ $\mathcal{Z}$	
minimum elong	5825 Feb 02 20:36	14° $\approx$ 10'19	2°02'18	min. Earth dist.	5826 Jan 17 15:31	28° $\mathcal{Z}$ 52'15	0.68029 AU
min. Earth dist.	5825 Feb 02 18:49	14° $\approx$ 16'30	0.68178 AU	inferior conj	5826 Jan 18 06:40	28° $\mathcal{Z}$ 00'41	1°18'50
morning rise	5825 Feb 08 02:45	7° $\approx$ 52'56		minimum elong	5826 Jan 18 04:57	28° $\mathcal{Z}$ 06'30	1°18'11
direct	5825 Feb 12 17:55	5° $\approx$ 57'23		morning rise	5826 Jan 23 13:51	21° $\mathcal{Z}$ 56'10	
morning max el	5825 Feb 21 23:03	11° $\approx$ 21'11	21°59'34	direct	5826 Jan 27 15:13	20° $\mathcal{Z}$ 23'10	
desc. node	5825 Mar 04 08:38	24° $\approx$ 00'36		morning max el	5826 Feb 04 17:29	25° $\mathcal{Z}$ 01'35	20°40'01
	5825 Mar 08 15:42	0° $\mathcal{H}$			5826 Feb 09 03:07	0° $\approx$	
morning set	5825 Mar 26 19:43	27° $\mathcal{H}$ 36'33		desc. node	5826 Feb 19 05:39	13° $\approx$ 49'12	
	5825 Mar 28 07:13	0° $\mathcal{Y}$			5826 Mar 02 01:21	0° $\mathcal{H}$	
max. Earth dist.	5825 Apr 01 12:48	6° $\mathcal{Y}$ 58'27	1.41274 AU	morning set	5826 Mar 06 00:07	6° $\mathcal{H}$ 05'37	
				max. Earth dist.	5826 Mar 14 17:45	19° $\mathcal{H}$ 56'14	1.43182 AU
superior conj	5825 Apr 09 06:14	20° $\mathcal{Y}$ 15'33	-1°58'58		5826 Mar 20 20:42	0° $\mathcal{Y}$	
minimum elong	5825 Apr 09 10:49	20° $\mathcal{Y}$ 35'49	1°58'40				
	5825 Apr 14 16:07	0° $\mathcal{B}$		superior conj	5826 Mar 21 09:44	0° $\mathcal{Y}$ 54'32	-2°09'29
evening rise	5825 Apr 19 19:46	9° $\mathcal{B}$ 30'55		minimum elong	5826 Mar 21 10:39	0° $\mathcal{Y}$ 58'24	2°09'28
asc. node	5825 Apr 25 08:33	19° $\mathcal{B}$ 38'55		evening rise	5826 Apr 02 12:21	21° $\mathcal{Y}$ 50'34	
	5825 May 01 16:11	0° $\Pi$			5826 Apr 07 03:24	0° $\mathcal{B}$	
evening max el	5825 May 06 01:03	5° $\Pi$ 20'23	18°14'21	asc. node	5826 Apr 12 05:33	8° $\mathcal{B}$ 36'02	
retrograde	5825 May 13 02:19	8° $\Pi$ 52'39		evening max el	5826 Apr 19 13:07	18° $\mathcal{B}$ 26'21	18°06'20
evening set	5825 May 15 12:32	8° $\Pi$ 28'20		retrograde	5826 Apr 26 01:32	21° $\mathcal{B}$ 48'05	
inferior conj	5825 May 22 14:18	3° $\Pi$ 44'51	2°19'05	evening set	5826 Apr 28 18:37	21° $\mathcal{B}$ 12'42	
minimum elong	5825 May 22 17:42	3° $\Pi$ 37'25	2°18'10	inferior conj	5826 May 05 05:02	16° $\mathcal{B}$ 09'06	3°05'03
min. Earth dist.	5825 May 26 00:02	0° $\Pi$ 47'36	0.59451 AU	minimum elong	5826 May 05 07:35	16° $\mathcal{B}$ 02'42	3°04'35
	5825 May 26 23:44	30° $\mathcal{R}$ $\mathcal{B}$		min. Earth dist.	5826 May 08 06:30	13° $\mathcal{B}$ 05'48	0.61672 AU
morning rise	5825 May 29 19:58	28° $\mathcal{B}$ 03'08		morning rise	5826 May 11 18:39	10° $\mathcal{B}$ 08'58	

desc. node	5826 May 18 04:55	7°♄46'47		direct	5827 May 01 06:22	20°♄10'32	
direct	5826 May 18 13:10	7°♄46'26		desc. node	5827 May 05 01:56	20°♄54'55	
morning max el	5826 Jun 01 17:34	15°♄46'14	27°53'11	morning max el	5827 May 15 01:53	28°♄09'46	27°40'10
	5826 Jun 13 08:43	0°♂			5827 May 16 20:09	0°♄	
	5826 Jul 01 05:26	0°♄			5827 Jun 07 03:27	0°♂	
morning set	5826 Jul 05 01:20	7°♄38'07		morning set	5827 Jun 18 21:11	21°♂33'33	
asc. node	5826 Jul 09 04:51	16°♄20'09			5827 Jun 23 00:34	0°♄	
max. Earth dist.	5826 Jul 10 19:23	19°♄48'07	1.32162 AU	max. Earth dist.	5827 Jun 23 22:09	1°♄53'00	1.32909 AU
				asc. node	5827 Jun 26 01:52	6°♄27'27	
superior conj	5826 Jul 12 11:30	23°♄26'46	0°33'29	superior conj	5827 Jun 26 18:18	7°♄55'26	0°07'06
minimum elong	5826 Jul 12 10:02	23°♄18'45	0°33'10	minimum elong	5827 Jun 26 17:57	7°♄53'34	0°07'00
	5826 Jul 15 11:11	0°♂		behind sun begin	5827 Jun 26 13:06	7°♄27'35	
evening rise	5826 Jul 19 07:34	8°♂21'00		behind sun end	5827 Jun 26 22:47	8°♄19'34	
	5826 Jul 30 11:38	0°♄		evening rise	5827 Jul 03 19:19	23°♄05'32	
evening max el	5826 Aug 13 20:03	19°♄15'40	24°37'28		5827 Jul 07 03:05	0°♂	
desc. node	5826 Aug 14 04:11	19°♄34'56		evening max el	5827 Jul 26 08:30	29°♂36'21	22°59'54
retrograde	5826 Aug 27 16:53	26°♄14'51			5827 Jul 26 18:21	0°♄	
evening set	5826 Sep 01 21:23	25°♄14'37		desc. node	5827 Aug 01 01:11	4°♄02'36	
min. Earth dist.	5826 Sep 07 07:18	22°♄25'52	0.56839 AU	retrograde	5827 Aug 08 16:49	6°♄16'18	
inferior conj	5826 Sep 10 00:43	20°♄40'48	-5°21'41	evening set	5827 Aug 12 08:57	5°♄46'50	
minimum elong	5826 Sep 10 00:54	20°♄40'30	5°21'41	min. Earth dist.	5827 Aug 19 17:07	2°♄28'49	0.55418 AU
morning rise	5826 Sep 18 06:44	16°♄35'51		inferior conj	5827 Aug 21 07:11	1°♄33'53	-4°58'04
direct	5826 Sep 20 21:40	16°♄16'54		minimum elong	5827 Aug 21 00:43	1°♄43'14	4°57'04
morning max el	5826 Sep 30 07:46	20°♄42'40	19°26'04		5827 Aug 24 02:05	30°♄♂	
asc. node	5826 Oct 05 04:07	26°♄23'00		morning rise	5827 Aug 29 18:41	27°♂43'17	
	5826 Oct 07 14:34	0°♂		direct	5827 Sep 01 18:48	27°♂22'00	
morning set	5826 Oct 17 13:48	18°♂22'30			5827 Sep 09 15:56	0°♄	
	5826 Oct 23 08:50	0°♂		morning max el	5827 Sep 12 17:51	2°♄28'14	20°41'25
superior conj	5826 Oct 25 14:32	4°♂25'08	1°34'39	asc. node	5827 Sep 22 01:10	14°♄31'21	
minimum elong	5826 Oct 25 16:48	4°♂36'13	1°34'31		5827 Sep 30 08:53	0°♂	
max. Earth dist.	5826 Oct 31 22:40	16°♂27'43	1.37967 AU	morning set	5827 Oct 01 20:48	3°♂03'24	
evening rise	5826 Nov 04 16:41	23°♂12'36		superior conj	5827 Oct 09 08:12	18°♂31'41	1°42'07
	5826 Nov 08 15:18	0°♄		minimum elong	5827 Oct 09 08:57	18°♂35'30	1°42'08
desc. node	5826 Nov 10 03:25	2°♄30'49		max. Earth dist.	5827 Oct 14 06:45	28°♂23'45	1.35994 AU
	5826 Nov 28 12:31	0°♄			5827 Oct 15 02:37	0°♂	
evening max el	5826 Dec 10 07:33	13°♄54'53	25°06'23	evening rise	5827 Oct 18 06:08	5°♂57'10	
retrograde	5826 Dec 22 05:04	20°♄47'57		desc. node	5827 Oct 28 00:26	22°♂58'00	
evening set	5826 Dec 27 22:22	18°♄25'19			5827 Nov 01 10:47	0°♄	
asc. node	5827 Jan 01 03:20	13°♄46'47		evening max el	5827 Nov 22 20:23	27°♄38'56	26°12'59
min. Earth dist.	5827 Jan 01 10:11	13°♄24'36	0.67515 AU		5827 Nov 25 10:33	0°♄	
inferior conj	5827 Jan 02 12:18	11°♄59'14	0°27'45	retrograde	5827 Dec 05 12:59	4°♄49'14	
minimum elong	5827 Jan 02 11:37	12°♄01'28	0°27'29	evening set	5827 Dec 11 19:34	2°♄15'35	
morning rise	5827 Jan 08 01:06	6°♄01'49			5827 Dec 14 03:40	30°♄♄	
direct	5827 Jan 11 14:00	4°♄49'45		min. Earth dist.	5827 Dec 16 00:29	27°♄50'03	0.66645 AU
morning max el	5827 Jan 18 19:52	8°♄53'00	19°33'38	inferior conj	5827 Dec 17 13:56	25°♄54'56	-0°29'19
greatest brilliancy	5827 Jan 31 19:44	26°♄01'32	-0.7m	minimum elong	5827 Dec 17 14:43	25°♄52'30	0°28'57
	5827 Feb 03 11:29	0°♂		asc. node	5827 Dec 19 00:23	24°♄10'49	
desc. node	5827 Feb 06 02:40	3°♂59'15		morning rise	5827 Dec 23 10:27	20°♄07'05	
morning set	5827 Feb 12 21:03	14°♂21'40		direct	5827 Dec 26 12:35	19°♄12'52	
	5827 Feb 22 22:03	0°♄		morning max el	5828 Jan 02 05:33	22°♄52'56	18°42'43
max. Earth dist.	5827 Feb 25 06:19	3°♄42'08	1.44572 AU		5828 Jan 08 01:20	0°♄	
superior conj	5827 Mar 01 11:53	10°♄26'55	-2°03'01	morning set	5828 Jan 23 11:14	23°♄35'45	
minimum elong	5827 Mar 01 06:24	10°♄04'56	2°02'46	desc. node	5828 Jan 23 23:41	24°♄24'44	
	5827 Mar 13 10:04	0°♄			5828 Jan 27 12:57	0°♂	
evening rise	5827 Mar 15 08:52	3°♄16'13		max. Earth dist.	5828 Feb 08 00:10	17°♂58'58	1.45291 AU
asc. node	5827 Mar 30 02:35	27°♄00'17		superior conj	5828 Feb 08 18:44	19°♂11'46	-1°36'39
	5827 Apr 01 10:42	0°♄		minimum elong	5828 Feb 08 09:15	18°♂34'34	1°35'43
evening max el	5827 Apr 03 02:07	1°♄47'37	18°17'13		5828 Feb 15 15:22	0°♄	
retrograde	5827 Apr 09 11:55	5°♄13'18		evening rise	5828 Feb 24 06:15	13°♄44'06	
evening set	5827 Apr 12 11:31	4°♄25'31		greatest brilliancy	5828 Mar 02 16:59	25°♄40'47	-0.9m
	5827 Apr 17 14:10	30°♄♄			5828 Mar 05 10:31	0°♄	
inferior conj	5827 Apr 18 10:35	29°♄02'57	3°26'53	asc. node	5828 Mar 15 23:38	14°♄41'02	
minimum elong	5827 Apr 18 11:36	29°♄00'06	3°26'47	evening max el	5828 Mar 16 13:17	15°♄16'38	18°46'14
min. Earth dist.	5827 Apr 20 22:02	26°♄16'04	0.63726 AU	retrograde	5828 Mar 23 05:24	18°♄59'05	
morning rise	5827 Apr 24 10:40	22°♄52'56					

evening set	5828 Mar 26 11:40	17° $\Upsilon$ 58'08		5829 Mar 12 16:25	30° $\kappa$ $\Upsilon$	
inferior conj	5828 Apr 01 03:01	12° $\Upsilon$ 18'12 3°30'09	inferior conj	5829 Mar 16 03:01	25° $\Upsilon$ 49'30 3°19'09	
minimum elong	5828 Apr 01 02:33	12° $\Upsilon$ 19'38 3°30'08	minimum elong	5829 Mar 16 01:28	25° $\Upsilon$ 54'38 3°18'58	
min. Earth dist.	5828 Apr 02 22:50	10° $\Upsilon$ 03'14 0.65444 AU	min. Earth dist.	5829 Mar 17 07:52	24° $\Upsilon$ 14'39 0.66753 AU	
morning rise	5828 Apr 06 16:57	6° $\Upsilon$ 03'45	morning rise	5829 Mar 21 10:16	19° $\Upsilon$ 33'57	
direct	5828 Apr 13 06:47	3° $\Upsilon$ 14'35	direct	5829 Mar 27 13:30	16° $\Upsilon$ 50'03	
desc. node	5828 Apr 20 22:58	6° $\Upsilon$ 13'08	desc. node	5829 Apr 07 19:59	23° $\Upsilon$ 08'44	
morning max el	5828 Apr 26 12:06	11° $\Upsilon$ 02'34 26°54'24	morning max el	5829 Apr 08 21:53	24° $\Upsilon$ 12'40 25°43'56	
	5828 May 11 12:54	0° $\text{♄}$		5829 Apr 14 02:33	0° $\Upsilon$	
	5828 May 29 16:05	0° $\text{♄}$		5829 May 04 22:55	0° $\text{♄}$	
morning set	5828 Jun 01 06:49	4° $\text{♄}$ 55'31	morning set	5829 May 15 02:11	17° $\text{♄}$ 32'54	
max. Earth dist.	5828 Jun 05 15:16	13° $\text{♄}$ 28'26 1.34121 AU	max. Earth dist.	5829 May 18 20:58	24° $\text{♄}$ 36'59 1.35787 AU	
				5829 May 21 15:46	0° $\text{♄}$	
superior conj	5828 Jun 09 19:31	22° $\text{♄}$ 02'40 -0°21'54	superior conj	5829 May 24 12:34	5° $\text{♄}$ 41'36 -0°52'08	
minimum elong	5828 Jun 09 20:41	22° $\text{♄}$ 08'49 0°21'41	minimum elong	5829 May 24 15:30	5° $\text{♄}$ 56'24 0°51'38	
asc. node	5828 Jun 11 22:54	26° $\text{♄}$ 32'28	asc. node	5829 May 29 19:56	16° $\text{♄}$ 31'24	
	5828 Jun 13 14:09	0° $\text{♄}$		5829 Jun 01 12:05	22° $\text{♄}$ 00'33	
evening rise	5828 Jun 17 05:31	7° $\text{♄}$ 40'46	evening rise	5829 Jun 05 11:55	0° $\text{♄}$	
	5828 Jun 29 04:15	0° $\text{♄}$		5829 Jun 19 08:25	21° $\text{♄}$ 07'58 20°06'40	
evening max el	5828 Jul 07 02:32	10° $\text{♄}$ 04'29 21°25'50	evening max el	5829 Jun 29 21:20	26° $\text{♄}$ 17'55	
desc. node	5828 Jul 17 22:13	16° $\text{♄}$ 01'49	retrograde	5829 Jun 29 21:20	26° $\text{♄}$ 17'55	
retrograde	5828 Jul 19 07:09	16° $\text{♄}$ 06'18	evening set	5829 Jul 01 19:17	26° $\text{♄}$ 08'25	
evening set	5828 Jul 21 17:25	15° $\text{♄}$ 52'46	desc. node	5829 Jul 04 19:15	25° $\text{♄}$ 18'35	
inferior conj	5828 Jul 31 01:19	11° $\text{♄}$ 53'20 -3°41'52	inferior conj	5829 Jul 10 20:57	22° $\text{♄}$ 09'19 -1°49'05	
minimum elong	5828 Jul 30 16:23	12° $\text{♄}$ 05'50 3°39'17	minimum elong	5829 Jul 10 15:52	22° $\text{♄}$ 16'55 1°47'14	
min. Earth dist.	5828 Jul 31 02:53	11° $\text{♄}$ 51'08 0.54781 AU	min. Earth dist.	5829 Jul 12 14:49	21° $\text{♄}$ 06'53 0.55101 AU	
morning rise	5828 Aug 08 16:17	8° $\text{♄}$ 00'14	morning rise	5829 Jul 19 10:54	17° $\text{♄}$ 52'45	
direct	5828 Aug 12 04:05	7° $\text{♄}$ 33'53	direct	5829 Jul 23 15:31	17° $\text{♄}$ 14'29	
morning max el	5828 Aug 24 16:17	13° $\text{♄}$ 28'13 22°15'39	morning max el	5829 Aug 06 07:13	23° $\text{♄}$ 56'05 23°59'41	
	5828 Sep 06 01:18	0° $\text{♄}$		5829 Aug 11 19:36	0° $\text{♄}$	
asc. node	5828 Sep 07 22:12	3° $\text{♄}$ 18'33	asc. node	5829 Aug 25 19:14	22° $\text{♄}$ 34'56	
morning set	5828 Sep 15 07:02	17° $\text{♄}$ 52'40		5829 Aug 29 11:19	0° $\text{♄}$	
	5828 Sep 20 23:52	0° $\text{♄}$	morning set	5829 Aug 30 18:40	2° $\text{♄}$ 44'45	
superior conj	5828 Sep 22 10:11	3° $\text{♄}$ 01'59 1°42'15	superior conj	5829 Sep 06 17:34	17° $\text{♄}$ 47'06 1°36'06	
minimum elong	5828 Sep 22 09:34	2° $\text{♄}$ 58'47 1°42'15	minimum elong	5829 Sep 06 15:58	17° $\text{♄}$ 38'24 1°35'58	
max. Earth dist.	5828 Sep 25 22:00	10° $\text{♄}$ 19'05 1.34335 AU	max. Earth dist.	5829 Sep 08 21:46	22° $\text{♄}$ 28'12 1.33089 AU	
evening rise	5828 Sep 30 11:12	19° $\text{♄}$ 24'51		5829 Sep 12 11:44	0° $\text{♄}$	
	5828 Oct 06 03:13	0° $\text{♄}$	evening rise	5829 Sep 14 03:57	3° $\text{♄}$ 25'04	
desc. node	5828 Oct 13 21:29	13° $\text{♄}$ 08'33		5829 Sep 28 21:48	0° $\text{♄}$	
	5828 Oct 25 12:32	0° $\text{♄}$	desc. node	5829 Sep 30 18:32	2° $\text{♄}$ 54'35	
evening max el	5828 Nov 04 09:09	11° $\text{♄}$ 15'00 27°01'54	evening max el	5829 Oct 17 20:51	24° $\text{♄}$ 31'59 27°26'09	
retrograde	5828 Nov 17 15:26	18° $\text{♄}$ 33'08		5829 Oct 25 01:44	0° $\text{♄}$	
evening set	5828 Nov 24 09:36	15° $\text{♄}$ 53'53	retrograde	5829 Oct 31 11:51	1° $\text{♄}$ 50'11	
min. Earth dist.	5828 Nov 28 08:10	12° $\text{♄}$ 03'32 0.65416 AU		5829 Nov 06 10:32	30° $\kappa$ $\text{♄}$	
inferior conj	5828 Nov 30 09:25	9° $\text{♄}$ 43'44 -1°31'08	evening set	5829 Nov 07 13:46	29° $\text{♄}$ 13'46	
minimum elong	5828 Nov 30 12:03	9° $\text{♄}$ 36'15 1°30'00	min. Earth dist.	5829 Nov 11 07:09	25° $\text{♄}$ 56'21 0.63847 AU	
asc. node	5828 Dec 04 21:27	5° $\text{♄}$ 14'19	inferior conj	5829 Nov 13 20:12	23° $\text{♄}$ 19'20 -2°35'44	
morning rise	5828 Dec 06 15:34	4° $\text{♄}$ 08'15	minimum elong	5829 Nov 14 00:49	23° $\text{♄}$ 07'26 2°33'57	
direct	5828 Dec 09 08:55	3° $\text{♄}$ 28'10	morning rise	5829 Nov 20 13:26	17° $\text{♄}$ 59'05	
morning max el	5828 Dec 15 20:21	6° $\text{♄}$ 55'53 18°08'19	asc. node	5829 Nov 21 18:30	17° $\text{♄}$ 37'00	
	5828 Dec 31 15:32	0° $\text{♄}$	direct	5829 Nov 23 00:24	17° $\text{♄}$ 29'15	
morning set	5829 Jan 03 06:42	4° $\text{♄}$ 18'42	morning max el	5829 Nov 29 13:20	20° $\text{♄}$ 53'57 17°51'02	
desc. node	5829 Jan 09 20:43	15° $\text{♄}$ 01'19		5829 Dec 06 11:01	0° $\text{♄}$	
			morning set	5829 Dec 16 05:33	16° $\text{♄}$ 21'25	
superior conj	5829 Jan 17 23:55	27° $\text{♄}$ 59'52 -0°54'51		5829 Dec 24 06:29	0° $\text{♄}$	
minimum elong	5829 Jan 17 17:14	27° $\text{♄}$ 33'31 0°53'56	desc. node	5829 Dec 27 17:45	5° $\text{♄}$ 44'35	
	5829 Jan 19 06:23	0° $\text{♄}$				
max. Earth dist.	5829 Jan 20 19:42	2° $\text{♄}$ 26'44 1.45268 AU	superior conj	5829 Dec 28 22:21	7° $\text{♄}$ 41'35 -0°08'26	
evening rise	5829 Feb 03 06:03	23° $\text{♄}$ 22'52	minimum elong	5829 Dec 28 21:25	7° $\text{♄}$ 37'45 0°08'16	
	5829 Feb 07 12:31	0° $\text{♄}$	behind sun begin	5829 Dec 28 12:53	7° $\text{♄}$ 02'55	
greatest brilliancy	5829 Feb 15 21:51	12° $\text{♄}$ 50'56 -0.7m	behind sun end	5829 Dec 29 05:57	8° $\text{♄}$ 12'32	
evening max el	5829 Feb 27 20:33	28° $\text{♄}$ 49'30 19°32'05	max. Earth dist.	5830 Jan 03 13:57	16° $\text{♄}$ 47'27 1.44521 AU	
	5829 Mar 01 01:47	0° $\Upsilon$		5830 Jan 12 00:26	0° $\text{♄}$	
asc. node	5829 Mar 02 20:41	1° $\Upsilon$ 26'00	evening rise	5830 Jan 13 17:15	2° $\text{♄}$ 37'12	
retrograde	5829 Mar 07 02:38	2° $\Upsilon$ 59'28		5830 Feb 01 02:31	0° $\text{♄}$	
evening set	5829 Mar 10 16:23	1° $\Upsilon$ 44'42	evening max el	5830 Feb 10 22:38	12° $\text{♄}$ 23'55 20°32'40	

asc. node	5830 Feb 17 17:44	17° $\text{H}$ 00'16			5831 Jan 05 02:44	0° $\approx$	
retrograde	5830 Feb 19 00:57	17° $\text{H}$ 09'16		evening max el	5831 Jan 24 19:21	26° $\approx$ 00'11	21°44'39
evening set	5830 Feb 22 23:31	15° $\text{H}$ 39'57			5831 Jan 29 14:24	0° $\text{H}$	
inferior conj	5830 Feb 28 07:52	9° $\text{H}$ 31'56	2°56'49	retrograde	5831 Feb 02 22:24	1° $\text{H}$ 25'07	
minimum elong	5830 Feb 28 05:40	9° $\text{H}$ 39'28	2°56'22	asc. node	5831 Feb 04 14:45	1° $\text{H}$ 10'10	
min. Earth dist.	5830 Feb 28 23:01	8° $\text{H}$ 40'06	0.67637 AU		5831 Feb 06 21:11	30° $\text{R}$ $\approx$	
morning rise	5830 Mar 05 11:36	3° $\text{H}$ 17'30		evening set	5831 Feb 07 07:20	29° $\approx$ 40'30	
direct	5830 Mar 11 01:36	0° $\text{H}$ 48'12		inferior conj	5831 Feb 12 15:21	23° $\approx$ 22'33	2°25'04
morning max el	5830 Mar 22 06:33	7° $\text{H}$ 30'24	24°18'48	minimum elong	5831 Feb 12 12:59	23° $\approx$ 30'48	2°24'23
desc. node	5830 Mar 25 17:00	11° $\text{H}$ 14'14		min. Earth dist.	5831 Feb 12 18:04	23° $\approx$ 13'07	0.68103 AU
	5830 Apr 08 19:55	0° $\text{Y}$		morning rise	5831 Feb 17 18:26	17° $\approx$ 10'52	
morning set	5830 Apr 27 01:57	29° $\text{Y}$ 10'51		direct	5831 Feb 22 18:03	15° $\approx$ 02'04	
	5830 Apr 27 13:13	0° $\text{B}$		morning max el	5831 Mar 04 16:12	20° $\approx$ 54'17	22°49'19
max. Earth dist.	5830 Apr 30 17:48	5° $\text{B}$ 39'54	1.37825 AU		5831 Mar 12 10:53	0° $\text{H}$	
				desc. node	5831 Mar 12 14:03	0° $\text{H}$ 10'12	
superior conj	5830 May 07 18:07	18° $\text{B}$ 43'41	-1°21'41		5831 Apr 02 02:06	0° $\text{Y}$	
minimum elong	5830 May 07 22:40	19° $\text{B}$ 05'34	1°21'02	morning set	5831 Apr 08 00:10	9° $\text{Y}$ 34'02	
	5830 May 13 12:22	0° $\text{II}$		max. Earth dist.	5831 Apr 12 13:28	17° $\text{Y}$ 13'52	1.40041 AU
evening rise	5830 May 16 12:29	5° $\text{II}$ 57'38			5831 Apr 19 19:07	0° $\text{B}$	
asc. node	5830 May 16 16:59	6° $\text{II}$ 19'55					
	5830 May 30 12:00	0° $\text{B}$		superior conj	5831 Apr 20 08:01	0° $\text{B}$ 58'40	-1°47'29
evening max el	5830 Jun 02 02:48	2° $\text{B}$ 54'49	19°07'05	minimum elong	5831 Apr 20 13:11	1° $\text{B}$ 22'18	1°46'59
retrograde	5830 Jun 10 23:25	7° $\text{B}$ 15'19		evening rise	5831 Apr 30 03:38	19° $\text{B}$ 24'04	
evening set	5830 Jun 12 23:03	7° $\text{B}$ 03'09		asc. node	5831 May 03 14:00	25° $\text{B}$ 52'57	
inferior conj	5830 Jun 21 07:22	2° $\text{B}$ 51'11	0°06'36		5831 May 05 19:49	0° $\text{II}$	
minimum elong	5830 Jun 21 07:38	2° $\text{B}$ 50'43	0°06'28	evening max el	5831 May 16 06:49	15° $\text{II}$ 19'04	18°27'49
transit middle	5830 Jun 21 07:38	2° $\text{B}$ 50'43	0°06'28	retrograde	5831 May 23 20:19	19° $\text{II}$ 04'03	
transit begin	5830 Jun 21 04:10	2° $\text{B}$ 56'39		evening set	5831 May 26 02:35	18° $\text{II}$ 44'56	
transit end	5830 Jun 21 11:07	2° $\text{B}$ 44'47		inferior conj	5831 Jun 02 14:52	14° $\text{II}$ 13'09	1°39'33
desc. node	5830 Jun 21 16:15	2° $\text{B}$ 36'00		minimum elong	5831 Jun 02 17:57	14° $\text{II}$ 06'58	1°38'33
min. Earth dist.	5830 Jun 24 05:40	0° $\text{B}$ 51'57	0.56326 AU	min. Earth dist.	5831 Jun 06 00:40	11° $\text{II}$ 31'02	0.58209 AU
	5830 Jun 25 14:23	30° $\text{R}$ $\text{II}$		desc. node	5831 Jun 08 13:16	9° $\text{II}$ 45'26	
morning rise	5830 Jun 29 13:02	27° $\text{II}$ 59'28		morning rise	5831 Jun 10 06:06	8° $\text{II}$ 47'30	
direct	5830 Jul 04 15:31	26° $\text{II}$ 58'40		direct	5831 Jun 16 05:28	7° $\text{II}$ 15'19	
	5830 Jul 13 14:10	0° $\text{B}$		morning max el	5831 Jun 30 14:43	14° $\text{II}$ 56'26	26°58'05
morning max el	5830 Jul 18 20:53	4° $\text{B}$ 16'32	25°39'10		5831 Jul 12 17:51	0° $\text{B}$	
	5830 Aug 06 07:58	0° $\text{Q}$			5831 Jul 29 13:22	0° $\text{Q}$	
asc. node	5830 Aug 12 16:16	12° $\text{Q}$ 12'50		morning set	5831 Jul 30 15:38	2° $\text{Q}$ 17'25	
morning set	5830 Aug 15 06:06	17° $\text{Q}$ 35'06		asc. node	5831 Jul 30 13:17	2° $\text{Q}$ 05'00	
	5830 Aug 20 23:06	0° $\text{P}$					
				superior conj	5831 Aug 06 15:55	17° $\text{Q}$ 32'57	1°07'59
superior conj	5830 Aug 22 04:09	2° $\text{P}$ 39'57	1°24'28	minimum elong	5831 Aug 06 13:38	17° $\text{Q}$ 20'23	1°07'35
minimum elong	5830 Aug 22 01:58	2° $\text{P}$ 28'00	1°24'11	max. Earth dist.	5831 Aug 06 15:18	17° $\text{Q}$ 29'33	1.31897 AU
max. Earth dist.	5830 Aug 23 04:39	4° $\text{P}$ 54'33	1.32280 AU		5831 Aug 12 08:22	0° $\text{P}$	
evening rise	5830 Aug 29 05:06	17° $\text{P}$ 48'51		evening rise	5831 Aug 13 11:53	2° $\text{P}$ 26'34	
	5830 Sep 04 08:38	0° $\text{B}$			5831 Aug 28 06:54	0° $\text{B}$	
desc. node	5830 Sep 17 15:33	22° $\text{B}$ 06'09		desc. node	5831 Sep 04 12:32	10° $\text{B}$ 28'24	
	5830 Sep 23 13:14	0° $\text{M}$		evening max el	5831 Sep 12 08:05	19° $\text{B}$ 18'46	26°39'52
evening max el	5830 Sep 30 05:26	7° $\text{M}$ 17'40	27°19'47	retrograde	5831 Sep 26 06:07	26° $\text{B}$ 27'07	
retrograde	5830 Oct 14 01:11	14° $\text{M}$ 31'12		evening set	5831 Oct 03 01:39	24° $\text{B}$ 30'02	
evening set	5830 Oct 21 04:37	12° $\text{M}$ 08'37		min. Earth dist.	5831 Oct 06 21:55	21° $\text{B}$ 54'13	0.59950 AU
min. Earth dist.	5830 Oct 24 19:57	9° $\text{M}$ 17'49	0.61993 AU	inferior conj	5831 Oct 10 03:19	19° $\text{B}$ 19'35	-4°35'55
inferior conj	5830 Oct 27 19:20	6° $\text{M}$ 34'35	-3°39'27	minimum elong	5831 Oct 10 09:37	19° $\text{B}$ 06'56	4°34'34
minimum elong	5830 Oct 28 01:32	6° $\text{M}$ 20'23	3°37'31	morning rise	5831 Oct 17 19:41	14° $\text{B}$ 39'29	
morning rise	5830 Nov 04 00:21	1° $\text{M}$ 32'48		direct	5831 Oct 20 03:10	14° $\text{B}$ 19'46	
direct	5830 Nov 06 07:50	1° $\text{M}$ 09'33		asc. node	5831 Oct 26 12:33	16° $\text{B}$ 59'03	
asc. node	5830 Nov 08 15:31	1° $\text{M}$ 33'45		morning max el	5831 Oct 27 17:03	18° $\text{B}$ 03'06	18°11'47
morning max el	5830 Nov 13 05:20	4° $\text{M}$ 39'23	17°51'45		5831 Nov 05 07:24	0° $\text{M}$	
morning set	5830 Nov 29 01:24	29° $\text{M}$ 24'20		morning set	5831 Nov 12 12:11	13° $\text{M}$ 09'05	
	5830 Nov 29 09:19	0° $\text{X}$					
				superior conj	5831 Nov 21 23:45	0° $\text{X}$ 47'26	1°04'54
superior conj	5830 Dec 09 22:42	18° $\text{X}$ 38'52	0°33'01	minimum elong	5831 Nov 22 03:34	1° $\text{X}$ 04'42	1°04'26
minimum elong	5830 Dec 10 01:33	18° $\text{X}$ 51'03	0°32'37		5831 Nov 21 13:16	0° $\text{X}$	
desc. node	5830 Dec 14 14:48	26° $\text{X}$ 31'10		max. Earth dist.	5831 Nov 29 15:03	14° $\text{X}$ 09'17	1.41285 AU
	5830 Dec 16 17:31	0° $\text{B}$		desc. node	5831 Dec 01 11:49	17° $\text{X}$ 17'16	
max. Earth dist.	5830 Dec 17 04:51	0° $\text{B}$ 46'14	1.43142 AU	evening rise	5831 Dec 04 13:40	22° $\text{X}$ 21'01	
evening rise	5830 Dec 24 07:18	12° $\text{B}$ 06'04			5831 Dec 09 08:52	0° $\text{B}$	

	5831 Dec 30 05:00	0°♊			5832 Nov 12 16:17	0°♊	
evening max el	5832 Jan 07 11:35	9°♊38'58	23°03'23	evening rise	5832 Nov 14 18:25	3°♊36'27	
retrograde	5832 Jan 17 17:29	15°♊43'18		desc. node	5832 Nov 17 08:48	7°♊59'20	
asc. node	5832 Jan 22 11:46	13°♊48'14			5832 Dec 01 13:10	0°♊	
evening set	5832 Jan 22 14:16	13°♊43'02		evening max el	5832 Dec 20 00:59	23°♊20'39	24°22'55
inferior conj	5832 Jan 27 23:33	7°♊18'35	1°45'10	retrograde	5832 Dec 31 09:03	29°♊59'04	
minimum elong	5832 Jan 27 21:28	7°♊25'45	1°44'26	evening set	5833 Jan 05 18:45	27°♊43'50	
min. Earth dist.	5832 Jan 27 14:43	7°♊49'01	0.68166 AU	asc. node	5833 Jan 08 08:49	25°♊03'16	
morning rise	5832 Feb 02 04:34	1°♊11'10		min. Earth dist.	5833 Jan 10 10:44	22°♊23'36	0.67855 AU
	5832 Feb 04 01:00	30°♊♊		inferior conj	5833 Jan 11 06:38	21°♊16'51	0°57'56
direct	5832 Feb 06 13:49	29°♊25'15		minimum elong	5833 Jan 11 05:19	21°♊21'19	0°57'25
	5832 Feb 09 06:19	0°♊		morning rise	5833 Jan 16 15:58	15°♊15'22	
morning max el	5832 Feb 15 06:39	4°♊28'05	21°24'22	direct	5833 Jan 20 11:48	13°♊51'46	
desc. node	5832 Feb 27 11:05	19°♊42'35		morning max el	5833 Jan 28 04:33	18°♊13'41	20°10'01
	5832 Mar 05 13:56	0°♊			5833 Feb 06 15:42	0°♊	
morning set	5832 Mar 17 18:09	18°♊38'47		desc. node	5833 Feb 13 08:05	9°♊40'48	
max. Earth dist.	5832 Mar 24 14:54	29°♊43'12	1.42139 AU	morning set	5833 Feb 24 16:21	26°♊53'23	
	5832 Mar 24 18:59	0°♊			5833 Feb 26 16:32	0°♊	
				max. Earth dist.	5833 Mar 06 23:33	13°♊04'07	1.43846 AU
superior conj	5832 Apr 01 01:24	12°♊15'39	-2°05'09	superior conj	5833 Mar 12 17:57	22°♊25'00	-2°09'06
minimum elong	5832 Apr 01 04:52	12°♊30'40	2°05'00	minimum elong	5833 Mar 12 16:19	22°♊18'16	2°09'04
	5832 Apr 11 00:51	0°♊			5833 Mar 17 07:33	0°♊	
evening rise	5832 Apr 12 05:46	2°♊11'23		evening rise	5833 Mar 25 14:22	14°♊09'03	
asc. node	5832 Apr 19 11:02	15°♊05'21			5833 Apr 03 21:38	0°♊	
evening max el	5832 Apr 28 16:55	28°♊12'20	18°08'31	asc. node	5833 Apr 06 08:04	3°♊49'31	
	5832 Apr 30 19:57	0°♊		evening max el	5833 Apr 12 05:40	11°♊25'08	18°08'38
retrograde	5832 May 05 11:18	1°♊38'22		retrograde	5833 Apr 18 15:59	14°♊47'16	
evening set	5832 May 08 00:33	1°♊09'27		evening set	5833 Apr 21 11:45	14°♊06'50	
	5832 May 10 06:41	30°♊♊		inferior conj	5833 Apr 27 16:51	8°♊54'51	3°16'53
inferior conj	5832 May 14 19:15	26°♊16'56	2°41'56	minimum elong	5833 Apr 27 18:46	8°♊49'46	3°16'36
minimum elong	5832 May 14 22:26	26°♊09'30	2°41'11	min. Earth dist.	5833 Apr 30 12:41	5°♊56'05	0.62576 AU
min. Earth dist.	5832 May 18 02:19	23°♊14'22	0.60400 AU	morning rise	5833 May 04 00:17	2°♊49'17	
morning rise	5832 May 21 17:54	20°♊26'10		direct	5833 May 10 20:06	0°♊16'52	
desc. node	5832 May 25 10:17	18°♊44'49		desc. node	5833 May 12 07:19	0°♊23'24	
direct	5832 May 28 07:39	18°♊20'43		morning max el	5833 May 24 21:39	8°♊18'12	27°52'04
morning max el	5832 Jun 11 15:18	26°♊15'56	27°44'01		5833 Jun 10 14:08	0°♊	
	5832 Jun 15 03:12	0°♊			5833 Jun 27 10:39	0°♊	
	5832 Jul 05 06:29	0°♊		morning set	5833 Jun 27 21:49	0°♊56'21	
morning set	5832 Jul 13 21:34	16°♊46'38		asc. node	5833 Jul 03 07:21	12°♊12'37	
asc. node	5832 Jul 16 10:19	22°♊06'28		max. Earth dist.	5833 Jul 03 08:41	12°♊19'47	1.32421 AU
max. Earth dist.	5832 Jul 20 02:00	0°♊02'18	1.31942 AU				
	5832 Jul 20 01:35	0°♊		superior conj	5833 Jul 05 12:07	16°♊57'37	0°22'39
superior conj	5832 Jul 21 03:09	2°♊20'40	0°47'11	minimum elong	5833 Jul 05 11:04	16°♊51'56	0°22'24
minimum elong	5832 Jul 21 01:15	2°♊10'12	0°46'48		5833 Jul 11 11:55	0°♊	
evening rise	5832 Jul 27 22:08	17°♊11'31		evening rise	5833 Jul 12 09:51	1°♊57'24	
	5832 Aug 03 05:12	0°♊			5833 Jul 27 16:02	0°♊	
desc. node	5832 Aug 21 09:32	27°♊41'35		evening max el	5833 Aug 05 15:38	10°♊59'52	23°56'28
	5832 Aug 23 14:45	0°♊		desc. node	5833 Aug 08 06:33	13°♊18'57	
evening max el	5832 Aug 24 02:51	0°♊29'19	25°28'43	retrograde	5833 Aug 19 09:02	17°♊53'49	
retrograde	5832 Sep 07 01:17	7°♊33'22		evening set	5833 Aug 23 22:17	17°♊08'05	
evening set	5832 Sep 13 00:03	6°♊11'13		min. Earth dist.	5833 Aug 30 02:03	14°♊08'28	0.56146 AU
min. Earth dist.	5832 Sep 17 14:38	3°♊32'53	0.57904 AU	inferior conj	5833 Sep 01 09:54	12°♊43'12	-5°18'01
inferior conj	5832 Sep 20 16:45	1°♊24'29	-5°14'09	minimum elong	5833 Sep 01 07:11	12°♊47'23	5°17'50
minimum elong	5832 Sep 20 20:12	1°♊18'28	5°13'51	morning rise	5833 Sep 09 18:33	8°♊46'09	
	5832 Sep 22 18:31	30°♊♊		direct	5833 Sep 12 12:53	8°♊26'37	
morning rise	5832 Sep 28 18:37	27°♊07'47		morning max el	5833 Sep 22 14:25	13°♊08'20	19°55'41
direct	5832 Oct 01 05:50	26°♊49'09		asc. node	5833 Sep 29 06:39	21°♊19'46	
	5832 Oct 08 20:12	0°♊			5833 Oct 04 10:40	0°♊	
morning max el	5832 Oct 09 21:06	0°♊55'49	18°52'44	morning set	5833 Oct 10 13:30	11°♊55'48	
asc. node	5832 Oct 12 09:35	3°♊39'26					
morning set	5832 Oct 26 09:19	27°♊22'38		superior conj	5833 Oct 18 07:52	27°♊41'53	1°38'48
	5832 Oct 27 17:19	0°♊		minimum elong	5833 Oct 18 09:30	27°♊49'59	1°38'44
					5833 Oct 19 11:42	0°♊	
superior conj	5832 Nov 03 20:31	13°♊53'19	1°26'31	max. Earth dist.	5833 Oct 24 02:17	8°♊53'49	1.37089 AU
minimum elong	5832 Nov 03 23:34	14°♊07'53	1°26'15	evening rise	5833 Oct 27 21:01	15°♊51'38	
max. Earth dist.	5832 Nov 10 20:58	26°♊49'13	1.39180 AU	desc. node	5833 Nov 04 05:50	28°♊33'37	

	5833 Nov 05 02:53	0°♊		superior conj	5834 Oct 02 05:28	11°♊59'33	1°43'01
	5833 Nov 26 02:39	0°♋		minimum elong	5834 Oct 02 05:36	12°♊00'15	1°43'01
evening max el	5833 Dec 02 13:38	7°♋05'16	25°36'23	max. Earth dist.	5834 Oct 06 12:45	20°♊45'37	1.35236 AU
retrograde	5833 Dec 14 20:11	14°♋07'53		evening rise	5834 Oct 10 17:39	28°♊56'02	
evening set	5833 Dec 20 19:11	11°♋39'54			5834 Oct 11 07:12	0°♌	
min. Earth dist.	5833 Dec 25 03:54	6°♋54'04	0.67186 AU	desc. node	5834 Oct 22 02:51	18°♌54'24	
inferior conj	5833 Dec 26 10:51	5°♋15'12	0°04'14		5834 Oct 29 07:49	0°♊	
minimum elong	5833 Dec 26 10:44	5°♋15'34	0°04'12	evening max el	5834 Nov 15 02:34	20°♊47'25	26°36'29
transit middle	5833 Dec 26 10:44	5°♋15'34	0°04'12	retrograde	5834 Nov 28 02:00	28°♊02'29	
transit begin	5833 Dec 26 08:02	5°♋24'15		evening set	5834 Dec 04 13:37	25°♊25'53	
transit end	5833 Dec 26 13:27	5°♋06'53		min. Earth dist.	5834 Dec 08 15:48	21°♊15'06	0.66161 AU
asc. node	5833 Dec 26 05:52	5°♋31'10		inferior conj	5834 Dec 10 10:09	19°♊08'49	-0°55'02
	5833 Dec 31 05:17	30°♌♊		minimum elong	5834 Dec 10 11:41	19°♊04'14	0°54'20
morning rise	5834 Jan 01 02:42	29°♊21'34		asc. node	5834 Dec 13 02:55	16°♊05'35	
direct	5834 Jan 04 10:40	28°♊17'43		morning rise	5834 Dec 16 10:32	13°♊25'37	
	5834 Jan 08 22:04	0°♋		direct	5834 Dec 19 08:38	12°♊37'54	
morning max el	5834 Jan 11 10:20	2°♋10'03	19°09'57	morning max el	5834 Dec 25 22:27	16°♊11'47	18°25'57
greatest brilliancy	5834 Jan 25 02:24	20°♋35'30	-0.7m		5835 Jan 05 04:35	0°♋	
desc. node	5834 Jan 31 05:07	29°♋58'12		morning set	5835 Jan 14 20:14	15°♋18'10	
	5834 Jan 31 05:35	0°♌		desc. node	5835 Jan 18 02:09	20°♋28'55	
morning set	5834 Feb 03 18:00	5°♌27'00			5835 Jan 24 02:14	0°♌	
max. Earth dist.	5834 Feb 17 14:10	27°♌03'21	1.44967 AU				
	5834 Feb 19 10:57	0°♌		superior conj	5835 Jan 30 14:08	10°♌12'52	-1°20'15
				minimum elong	5835 Jan 30 05:05	9°♌37'22	1°19'12
superior conj	5834 Feb 20 10:30	1°♌33'08	-1°54'12	max. Earth dist.	5835 Jan 31 08:48	11°♌26'00	1.45377 AU
minimum elong	5834 Feb 20 02:36	1°♌01'55	1°53'39		5835 Feb 12 04:55	0°♌	
evening rise	5834 Mar 07 01:15	25°♌09'56		evening rise	5835 Feb 15 12:50	5°♌14'48	
	5834 Mar 09 23:38	0°♍		greatest brilliancy	5835 Feb 25 11:18	20°♌52'50	-0.8m
asc. node	5834 Mar 24 05:07	21°♍56'38			5835 Mar 03 12:45	0°♍	
evening max el	5834 Mar 26 18:11	24°♍50'11	18°27'24	evening max el	5835 Mar 10 03:59	8°♍21'55	19°03'50
retrograde	5834 Apr 02 05:49	28°♍21'42		asc. node	5835 Mar 11 02:09	9°♍15'39	
evening set	5834 Apr 05 08:06	27°♍28'34		retrograde	5835 Mar 17 01:07	12°♍14'32	
inferior conj	5834 Apr 11 03:30	21°♍58'35	3°30'11	evening set	5835 Mar 20 10:28	11°♍07'49	
minimum elong	5834 Apr 11 03:51	21°♍57'33	3°30'10	inferior conj	5835 Mar 25 23:30	5°♍21'24	3°26'59
min. Earth dist.	5834 Apr 13 08:26	19°♍23'30	0.64507 AU	minimum elong	5835 Mar 25 22:32	5°♍24'31	3°26'55
morning rise	5834 Apr 16 22:49	15°♍45'59		min. Earth dist.	5835 Mar 27 12:54	3°♍22'42	0.66060 AU
direct	5834 Apr 23 16:46	12°♍58'44			5835 Mar 30 11:33	30°♌♌	
desc. node	5834 Apr 29 04:22	14°♍30'36		morning rise	5835 Mar 31 10:12	29°♌06'20	
morning max el	5834 May 07 07:06	20°♍55'31	27°24'07	direct	5835 Apr 06 20:09	26°♌17'50	
	5834 May 15 03:19	0°♎			5835 Apr 15 08:23	0°♍	
	5834 Jun 03 16:55	0°♏		desc. node	5835 Apr 16 01:25	0°♍34'12	
morning set	5834 Jun 11 13:44	14°♏38'41		morning max el	5835 Apr 19 17:07	3°♍56'36	26°26'45
max. Earth dist.	5834 Jun 16 07:28	24°♏11'15	1.33362 AU		5835 May 09 12:31	0°♎	
	5834 Jun 19 02:08	0°♏		morning set	5835 May 25 17:53	27°♎43'41	
					5835 May 26 22:42	0°♏	
superior conj	5834 Jun 19 16:50	1°♏17'51	-0°04'59	max. Earth dist.	5835 May 29 19:33	5°♏33'32	1.34776 AU
minimum elong	5834 Jun 19 17:05	1°♏19'13	0°04'58				
behind sun begin	5834 Jun 19 11:51	0°♏51'25		superior conj	5835 Jun 03 14:59	15°♏14'48	-0°34'39
behind sun end	5834 Jun 19 22:19	1°♏47'02		minimum elong	5835 Jun 03 16:54	15°♏24'38	0°34'19
asc. node	5834 Jun 20 04:23	2°♏19'18		asc. node	5835 Jun 07 01:25	22°♏22'39	
evening rise	5834 Jun 26 21:10	16°♏38'18			5835 Jun 10 16:58	0°♏	
	5834 Jul 03 12:39	0°♐		evening rise	5835 Jun 11 06:08	1°♏08'17	
evening max el	5834 Jul 18 05:29	21°♐19'35	22°18'41		5835 Jun 28 06:24	0°♐	
desc. node	5834 Jul 26 03:35	26°♐47'00		evening max el	5835 Jun 30 04:21	2°♐01'43	20°49'58
retrograde	5834 Jul 31 04:22	27°♐45'46		retrograde	5835 Jul 11 16:37	7°♐41'31	
evening set	5834 Aug 03 05:41	27°♐25'10		desc. node	5835 Jul 13 00:37	7°♐37'13	
min. Earth dist.	5834 Aug 11 11:53	23°♐50'18	0.55027 AU	evening set	5835 Jul 13 19:36	7°♐30'44	
inferior conj	5834 Aug 12 09:49	23°♐19'22	-4°31'53	inferior conj	5835 Jul 23 02:48	3°♐33'43	-2°56'40
minimum elong	5834 Aug 12 01:28	23°♐31'09	4°30'06	minimum elong	5835 Jul 22 18:54	3°♐44'55	2°54'03
morning rise	5834 Aug 20 23:00	19°♐29'50		min. Earth dist.	5835 Jul 23 22:24	3°♐05'52	0.54801 AU
direct	5834 Aug 24 03:31	19°♐06'55			5835 Jul 30 07:06	30°♌♏	
morning max el	5834 Sep 04 19:20	24°♐33'57	21°19'40	morning rise	5835 Jul 31 18:05	29°♏33'00	
	5834 Sep 09 16:39	0°♑		direct	5835 Aug 04 12:39	29°♏02'26	
asc. node	5834 Sep 16 03:41	9°♑45'49			5835 Aug 09 14:07	0°♐	
morning set	5834 Sep 24 22:06	26°♑40'35		morning max el	5835 Aug 17 13:43	5°♐17'34	22°59'24
	5834 Sep 26 12:17	0°♑		asc. node	5835 Sep 03 00:44	28°♐46'46	
					5835 Sep 03 16:11	0°♑	

morning set	5835 Sep 09 09:08	11° $\mathbb{M}$ 31'41		morning set	5836 Aug 23 20:52	26° $\mathcal{Q}$ 23'34	
					5836 Aug 25 13:18	0° $\mathbb{M}$	
superior conj	5835 Sep 16 10:02	26° $\mathbb{M}$ 36'53	1°40'21	superior conj	5836 Aug 30 18:59	11° $\mathbb{M}$ 25'41	1°31'46
minimum elong	5835 Sep 16 08:57	26° $\mathbb{M}$ 31'06	1°40'18	minimum elong	5836 Aug 30 17:05	11° $\mathbb{M}$ 15'18	1°31'35
	5835 Sep 18 00:12	0° $\mathcal{L}$		max. Earth dist.	5836 Sep 01 11:08	15° $\mathbb{M}$ 04'07	1.32695 AU
max. Earth dist.	5835 Sep 19 07:51	2° $\mathcal{L}$ 46'39	1.33757 AU	evening rise	5836 Sep 07 00:48	26° $\mathbb{M}$ 49'46	
evening rise	5835 Sep 24 04:09	12° $\mathcal{L}$ 38'54			5836 Sep 08 14:25	0° $\mathcal{L}$	
	5835 Oct 03 13:39	0° $\mathbb{M}$		desc. node	5836 Sep 24 20:54	28° $\mathcal{L}$ 28'09	
desc. node	5835 Oct 08 23:52	8° $\mathbb{M}$ 55'24			5836 Sep 25 21:40	0° $\mathbb{M}$	
	5835 Oct 24 12:15	0° $\mathcal{L}$		evening max el	5836 Oct 10 01:58	17° $\mathbb{M}$ 22'20	27°27'25
evening max el	5835 Oct 28 15:18	4° $\mathcal{L}$ 17'23	27°15'41	retrograde	5836 Oct 23 18:58	24° $\mathbb{M}$ 38'19	
retrograde	5835 Nov 11 01:43	11° $\mathcal{L}$ 35'27		evening set	5836 Oct 30 22:41	22° $\mathbb{M}$ 06'15	
evening set	5835 Nov 17 23:45	8° $\mathcal{L}$ 56'35		min. Earth dist.	5836 Nov 03 14:38	19° $\mathbb{M}$ 01'28	0.63091 AU
min. Earth dist.	5835 Nov 21 20:04	5° $\mathcal{L}$ 20'29	0.64790 AU	inferior conj	5836 Nov 06 08:27	16° $\mathbb{M}$ 20'19	-3°03'10
inferior conj	5835 Nov 24 02:15	2° $\mathcal{L}$ 52'39	-1°58'21	minimum elong	5836 Nov 06 13:50	16° $\mathbb{M}$ 07'06	3°01'15
minimum elong	5835 Nov 24 05:44	2° $\mathcal{L}$ 43'09	1°56'55	morning rise	5836 Nov 13 06:39	11° $\mathbb{M}$ 07'40	
	5835 Nov 26 21:01	30° $\mathbb{R}\mathbb{M}$		direct	5836 Nov 15 15:53	10° $\mathbb{M}$ 40'55	
asc. node	5835 Nov 29 23:58	27° $\mathbb{M}$ 38'55		asc. node	5836 Nov 15 21:00	10° $\mathbb{M}$ 41'08	
morning rise	5835 Nov 30 12:56	27° $\mathbb{M}$ 22'58		morning max el	5836 Nov 22 07:22	14° $\mathbb{M}$ 06'26	17°49'09
direct	5835 Dec 03 03:21	26° $\mathbb{M}$ 47'34			5836 Dec 03 06:41	0° $\mathcal{L}$	
	5835 Dec 09 09:12	0° $\mathcal{L}$		morning set	5836 Dec 08 12:37	9° $\mathcal{L}$ 08'15	
morning max el	5835 Dec 09 14:26	0° $\mathcal{L}$ 12'50	17°58'48				
morning set	5835 Dec 27 04:02	26° $\mathcal{L}$ 37'23		superior conj	5836 Dec 20 09:48	29° $\mathcal{L}$ 31'29	0°10'10
	5835 Dec 29 04:40	0° $\mathcal{Z}$		minimum elong	5836 Dec 20 10:50	29° $\mathcal{L}$ 35'48	0°10'03
desc. node	5836 Jan 04 23:09	11° $\mathcal{Z}$ 08'37		behind sun begin	5836 Dec 20 03:29	29° $\mathcal{L}$ 05'12	
				behind sun end	5836 Dec 20 18:11	0° $\mathcal{Z}$ 06'20	
superior conj	5836 Jan 10 00:41	19° $\mathcal{Z}$ 18'12	-0°35'01		5836 Dec 20 16:40	0° $\mathcal{Z}$	
minimum elong	5836 Jan 09 20:27	19° $\mathcal{Z}$ 01'20	0°34'25	desc. node	5836 Dec 21 20:10	1° $\mathcal{Z}$ 53'48	
max. Earth dist.	5836 Jan 14 04:33	25° $\mathcal{Z}$ 54'23	1.45041 AU	max. Earth dist.	5836 Dec 26 22:03	10° $\mathcal{Z}$ 09'27	1.43999 AU
	5836 Jan 16 19:04	0° $\approx$		evening rise	5837 Jan 04 16:08	23° $\mathcal{Z}$ 55'20	
evening rise	5836 Jan 26 05:41	14° $\approx$ 39'18			5837 Jan 08 15:23	0° $\approx$	
	5836 Feb 05 06:48	0° $\mathcal{H}$			5837 Jan 29 13:59	0° $\mathcal{H}$	
greatest brilliancy	5836 Feb 09 12:09	6° $\mathcal{H}$ 18'23	-0.6m	evening max el	5837 Feb 03 08:55	5° $\mathcal{H}$ 31'16	21°02'06
evening max el	5836 Feb 21 09:12	21° $\mathcal{H}$ 55'59	19°56'14	retrograde	5837 Feb 11 21:16	10° $\mathcal{H}$ 33'19	
asc. node	5836 Feb 25 23:11	25° $\mathcal{H}$ 32'42		asc. node	5837 Feb 11 20:13	10° $\mathcal{H}$ 33'19	
retrograde	5836 Feb 28 23:00	26° $\mathcal{H}$ 19'46		evening set	5837 Feb 16 00:06	8° $\mathcal{H}$ 57'21	
evening set	5836 Mar 03 16:26	24° $\mathcal{H}$ 58'41		inferior conj	5837 Feb 21 08:04	2° $\mathcal{H}$ 44'30	2°44'27
inferior conj	5836 Mar 09 01:50	18° $\mathcal{H}$ 57'46	3°10'56	minimum elong	5837 Feb 21 05:44	2° $\mathcal{H}$ 52'33	2°43'52
minimum elong	5836 Mar 08 23:57	19° $\mathcal{H}$ 04'06	3°10'37	min. Earth dist.	5837 Feb 21 17:41	2° $\mathcal{H}$ 11'14	0.67881 AU
min. Earth dist.	5836 Mar 10 00:37	17° $\mathcal{H}$ 41'21	0.67186 AU		5837 Feb 23 08:33	30° $\mathbb{R}\approx$	
morning rise	5836 Mar 14 07:15	12° $\mathcal{H}$ 42'45		morning rise	5837 Feb 26 11:11	26° $\approx$ 31'07	
direct	5836 Mar 20 05:08	10° $\mathcal{H}$ 04'16		direct	5837 Mar 03 19:01	24° $\approx$ 10'21	
morning max el	5836 Apr 01 02:15	17° $\mathcal{H}$ 10'28	25°08'56		5837 Mar 13 22:21	0° $\mathcal{H}$	
desc. node	5836 Apr 01 22:27	18° $\mathcal{H}$ 02'30		morning max el	5837 Mar 14 11:10	0° $\mathcal{H}$ 31'54	23°40'49
	5836 Apr 11 18:53	0° $\mathcal{Y}$		desc. node	5837 Mar 19 19:27	6° $\mathcal{H}$ 31'56	
	5836 May 01 12:13	0° $\mathcal{Z}$			5837 Apr 05 16:30	0° $\mathcal{Y}$	
morning set	5836 May 07 05:35	9° $\mathcal{Z}$ 57'28		morning set	5837 Apr 18 19:13	21° $\mathcal{Y}$ 05'52	
max. Earth dist.	5836 May 10 21:07	16° $\mathcal{Z}$ 37'18	1.36625 AU	max. Earth dist.	5837 Apr 22 16:56	27° $\mathcal{Y}$ 51'40	1.38767 AU
					5837 Apr 23 21:54	0° $\mathcal{Z}$	
superior conj	5836 May 17 03:35	28° $\mathcal{Z}$ 39'20	-1°04'54	superior conj	5837 Apr 30 03:01	11° $\mathcal{Z}$ 22'52	-1°33'18
minimum elong	5836 May 17 07:16	28° $\mathcal{Z}$ 57'31	1°04'18	minimum elong	5837 Apr 30 08:02	11° $\mathcal{Z}$ 46'25	1°32'41
	5836 May 17 19:53	0° $\mathbb{I}$		evening rise	5837 May 09 07:18	29° $\mathcal{Z}$ 05'16	
asc. node	5836 May 23 22:26	12° $\mathbb{I}$ 17'48			5837 May 09 18:33	0° $\mathbb{I}$	
evening rise	5836 May 25 10:23	15° $\mathbb{I}$ 19'35		asc. node	5837 May 10 19:27	2° $\mathbb{I}$ 00'41	
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evening max el	5836 Jun 11 15:40	13° $\mathcal{E}$ 23'17	19°38'43	retrograde	5837 Jun 02 20:40	29° $\mathbb{I}$ 30'37	
retrograde	5836 Jun 21 10:35	18° $\mathcal{E}$ 11'05		evening set	5837 Jun 04 22:43	29° $\mathbb{I}$ 16'02	
evening set	5836 Jun 23 08:17	18° $\mathcal{E}$ 00'59		inferior conj	5837 Jun 12 22:26	24° $\mathbb{I}$ 55'48	0°49'40
desc. node	5836 Jun 28 21:40	15° $\mathcal{E}$ 53'31		minimum elong	5837 Jun 13 00:18	24° $\mathbb{I}$ 52'24	0°48'58
inferior conj	5836 Jul 02 03:20	13° $\mathcal{E}$ 57'17	-0°58'25	desc. node	5837 Jun 15 18:41	22° $\mathbb{I}$ 51'32	
minimum elong	5836 Jul 02 00:41	14° $\mathcal{E}$ 01'28	0°57'25	min. Earth dist.	5837 Jun 16 03:32	22° $\mathbb{I}$ 35'59	0.57068 AU
min. Earth dist.	5836 Jul 04 11:05	12° $\mathcal{E}$ 30'03	0.55529 AU	morning rise	5837 Jun 20 22:28	19° $\mathbb{I}$ 48'29	
morning rise	5836 Jul 10 14:46	9° $\mathcal{E}$ 26'51		direct	5837 Jun 26 10:01	18° $\mathbb{I}$ 35'21	
direct	5836 Jul 15 04:22	8° $\mathcal{E}$ 40'30		morning max el	5837 Jul 10 18:25	26° $\mathbb{I}$ 04'47	26°16'08
morning max el	5836 Jul 29 03:14	15° $\mathcal{E}$ 38'12	24°43'35		5837 Jul 14 11:21	0° $\mathcal{E}$	
	5836 Aug 09 15:02	0° $\mathcal{Q}$					
asc. node	5836 Aug 19 21:44	18° $\mathcal{Q}$ 13'04					



































































































































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asc. node	5837 Aug 06 18:45	7°♎57'44			5838 Jul 09 21:12	0°♐	
morning set	5837 Aug 08 07:41	11°♎11'16		morning set	5838 Jul 23 15:58	25°♐49'37	
				asc. node	5838 Jul 24 15:46	27°♐55'02	
					5838 Jul 25 15:12	0°♎	
superior conj	5837 Aug 15 06:17	26°♎19'21	1°18'01				
minimum elong	5837 Aug 15 04:01	26°♎06'49	1°17'41				
max. Earth dist.	5837 Aug 15 20:01	27°♎35'06	1.32063 AU	superior conj	5838 Jul 30 18:07	11°♎11'55	0°59'40
	5837 Aug 16 22:20	0°♐		minimum elong	5838 Jul 30 15:56	10°♎59'54	0°59'16
evening rise	5837 Aug 22 04:37	11°♐20'07		max. Earth dist.	5838 Jul 30 07:02	10°♎10'40	1.31860 AU
	5837 Aug 31 19:15	0°♐		evening rise	5838 Aug 06 13:10	26°♎02'34	
desc. node	5837 Sep 11 17:55	17°♐20'54			5838 Aug 08 10:25	0°♐	
evening max el	5837 Sep 22 08:06	29°♐49'21	27°06'51		5838 Aug 25 14:19	0°♐	
	5837 Sep 22 12:37	0°♐		desc. node	5838 Aug 29 14:56	5°♐17'31	
retrograde	5837 Oct 06 05:03	7°♐01'19		evening max el	5838 Sep 04 07:28	11°♐29'43	26°13'02
evening set	5837 Oct 13 06:34	4°♐47'46		retrograde	5838 Sep 18 06:28	18°♐37'02	
min. Earth dist.	5837 Oct 16 22:36	2°♐05'29	0.61132 AU	evening set	5838 Sep 24 18:37	16°♐54'05	
	5837 Oct 19 08:50	30°♐♐		min. Earth dist.	5838 Sep 28 20:38	14°♐19'17	0.59059 AU
inferior conj	5837 Oct 20 01:31	29°♐23'32	-4°04'53	inferior conj	5838 Oct 02 02:03	11°♐53'28	-4°55'17
minimum elong	5837 Oct 20 08:02	29°♐09'26	4°03'06	minimum elong	5838 Oct 02 07:35	11°♐42'59	4°54'22
morning rise	5837 Oct 27 11:33	24°♐31'02		morning rise	5838 Oct 09 22:48	7°♐23'21	
direct	5837 Oct 29 18:32	24°♐09'43		direct	5838 Oct 12 07:12	7°♐04'30	
asc. node	5837 Nov 02 18:02	25°♐16'55		morning max el	5838 Oct 20 07:01	10°♐56'52	18°26'32
morning max el	5837 Nov 05 22:02	27°♐44'08	17°57'55	asc. node	5838 Oct 20 15:04	11°♐16'37	
	5837 Nov 07 23:32	0°♐			5838 Nov 01 21:12	0°♐	
morning set	5837 Nov 21 15:26	22°♐30'32		morning set	5838 Nov 05 07:08	6°♐29'20	
	5837 Nov 25 17:27	0°♐					
				superior conj	5838 Nov 14 07:19	23°♐36'01	1°15'16
superior conj	5837 Dec 01 21:10	11°♐00'48	0°47'47	minimum elong	5838 Nov 14 10:58	23°♐52'51	1°14'53
minimum elong	5837 Dec 02 00:43	11°♐16'21	0°47'20		5838 Nov 17 19:40	0°♐	
desc. node	5837 Dec 08 17:10	22°♐40'34		max. Earth dist.	5838 Nov 21 18:22	6°♐56'27	1.40404 AU
max. Earth dist.	5837 Dec 09 10:43	23°♐53'19	1.42386 AU	desc. node	5838 Nov 25 14:11	13°♐25'47	
	5837 Dec 13 04:36	0°♐		evening rise	5838 Nov 26 03:29	14°♐20'59	
evening rise	5837 Dec 15 11:45	3°♐40'14			5838 Dec 06 00:00	0°♐	
	5838 Jan 02 00:43	0°♐			5838 Dec 28 02:43	0°♐	
evening max el	5838 Jan 17 03:24	19°♐07'49	22°17'39	evening max el	5838 Dec 30 18:13	2°♐47'56	23°37'34
retrograde	5838 Jan 26 18:00	24°♐50'36		retrograde	5839 Jan 10 11:45	9°♐07'57	
asc. node	5838 Jan 29 17:16	24°♐04'28		evening set	5839 Jan 15 13:48	7°♐01'27	
evening set	5838 Jan 31 07:44	22°♐59'20		asc. node	5839 Jan 16 14:19	6°♐04'38	
inferior conj	5838 Feb 05 16:05	16°♐37'54	2°09'07	min. Earth dist.	5839 Jan 20 10:33	1°♐21'27	0.68077 AU
minimum elong	5838 Feb 05 13:46	16°♐45'56	2°08'23	inferior conj	5839 Jan 21 00:02	0°♐35'22	1°25'59
min. Earth dist.	5838 Feb 05 13:47	16°♐45'54	0.68169 AU	minimum elong	5839 Jan 20 22:13	0°♐41'35	1°25'19
morning rise	5838 Feb 10 19:40	10°♐27'40			5839 Jan 21 10:24	30°♐♐	
direct	5838 Feb 15 12:59	8°♐28'35		morning rise	5839 Jan 26 06:35	24°♐29'59	
morning max el	5838 Feb 24 22:31	13°♐59'55	22°12'14	direct	5839 Jan 30 09:59	22°♐53'35	
desc. node	5838 Mar 06 16:28	25°♐44'49		morning max el	5839 Feb 07 15:46	27°♐37'57	20°51'05
	5838 Mar 09 18:54	0°♐			5839 Feb 09 20:52	0°♐	
	5838 Mar 29 15:40	0°♐		desc. node	5839 Feb 21 13:29	15°♐29'10	
morning set	5838 Mar 30 05:24	0°♐55'30			5839 Mar 03 08:18	0°♐	
max. Earth dist.	5838 Apr 04 14:02	9°♐46'09	1.40959 AU	morning set	5839 Mar 09 12:49	9°♐31'53	
				max. Earth dist.	5839 Mar 17 17:59	22°♐36'19	1.42924 AU
					5839 Mar 22 05:54	0°♐	
superior conj	5838 Apr 12 08:47	23°♐14'34	-1°56'17				
minimum elong	5838 Apr 12 13:37	23°♐36'06	1°55'55				
	5838 Apr 16 02:37	0°♐		superior conj	5839 Mar 24 15:59	4°♐03'29	-2°08'51
evening rise	5838 Apr 22 17:26	12°♐16'27		minimum elong	5839 Mar 24 17:41	4°♐10'42	2°08'50
asc. node	5838 Apr 27 16:29	21°♐26'08		evening rise	5839 Apr 05 12:37	24°♐43'20	
	5838 May 02 16:53	0°♐			5839 Apr 08 11:48	0°♐	
evening max el	5838 May 08 21:33	8°♐05'07	18°17'14	asc. node	5839 Apr 14 13:32	10°♐27'36	
retrograde	5838 May 16 01:36	11°♐40'05		evening max el	5839 Apr 22 09:15	21°♐08'17	18°06'21
evening set	5838 May 18 10:47	11°♐17'12		retrograde	5839 Apr 28 22:49	24°♐30'33	
inferior conj	5838 May 25 15:12	6°♐36'54	2°09'40	evening set	5839 May 01 14:59	23°♐56'51	
minimum elong	5838 May 25 18:35	6°♐29'39	2°08'40	inferior conj	5839 May 08 03:23	18°♐56'05	2°59'44
min. Earth dist.	5838 May 29 01:24	3°♐42'42	0.59122 AU	minimum elong	5839 May 08 06:08	18°♐49'19	2°59'12
morning rise	5838 Jun 01 23:22	0°♐59'00		min. Earth dist.	5839 May 11 06:32	15°♐52'17	0.61344 AU
desc. node	5838 Jun 02 15:42	0°♐37'17		morning rise	5839 May 14 19:18	12°♐58'13	
	5838 Jun 04 01:20	30°♐♐		desc. node	5839 May 20 12:45	10°♐42'50	
direct	5838 Jun 08 05:52	29°♐12'05		direct	5839 May 21 12:55	10°♐39'50	
	5838 Jun 12 13:21	0°♐		morning max el	5839 Jun 04 18:08	18°♐38'27	27°52'04







































































































































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	5839 Jul 02 16:18	0°♂			5840 Jun 07 10:36	0°♂	
morning set	5839 Jul 07 19:46	10°♂11'39		morning set	5840 Jun 20 16:50	24°♂11'01	
asc. node	5839 Jul 11 12:47	17°♂59'17			5840 Jun 23 13:30	0°♂	
max. Earth dist.	5839 Jul 13 16:26	22°♂38'29	1.32091 AU	max. Earth dist.	5840 Jun 25 20:25	4°♂47'20	1.32770 AU
				asc. node	5840 Jun 27 09:50	8°♂06'30	
superior conj	5839 Jul 15 04:38	25°♂56'21	0°37'14				
minimum elong	5839 Jul 15 03:02	25°♂47'36	0°36'53	superior conj	5840 Jun 28 12:03	10°♂27'19	0°11'18
	5839 Jul 17 00:58	0°♂		minimum elong	5840 Jun 28 11:30	10°♂24'22	0°11'09
evening rise	5839 Jul 22 00:17	10°♂49'17		behind sun begin	5840 Jun 28 07:41	10°♂03'45	
	5839 Jul 31 18:03	0°♂		behind sun end	5840 Jun 28 15:20	10°♂45'00	
desc. node	5839 Aug 16 11:58	21°♂54'22		evening rise	5840 Jul 05 12:06	25°♂34'24	
evening max el	5839 Aug 16 23:27	22°♂22'15	24°51'17		5840 Jul 07 14:43	0°♂	
retrograde	5839 Aug 30 20:51	29°♂22'38			5840 Jul 25 21:18	0°♂	
evening set	5839 Sep 05 06:29	28°♂16'53		evening max el	5840 Jul 28 11:40	2°♂44'10	23°14'31
min. Earth dist.	5839 Sep 10 10:48	25°♂31'23	0.57106 AU	desc. node	5840 Aug 02 09:00	6°♂41'26	
inferior conj	5839 Sep 13 06:57	23°♂39'53	-5°21'04	retrograde	5840 Aug 10 22:41	9°♂28'20	
minimum elong	5839 Sep 13 08:05	23°♂38'01	5°21'02	evening set	5840 Aug 14 20:20	8°♂55'01	
morning rise	5839 Sep 21 11:59	19°♂31'58		min. Earth dist.	5840 Aug 21 20:47	5°♂42'13	0.55586 AU
direct	5839 Sep 24 01:53	19°♂13'06		inferior conj	5840 Aug 23 15:59	4°♂39'07	-5°05'01
morning max el	5839 Oct 03 06:47	23°♂33'34	19°16'41	minimum elong	5840 Aug 23 10:25	4°♂47'17	5°04'19
asc. node	5839 Oct 07 12:07	28°♂24'24		morning rise	5840 Sep 01 02:49	0°♂47'25	
	5839 Oct 08 15:35	0°♂		direct	5840 Sep 04 01:24	0°♂26'39	
morning set	5839 Oct 20 07:40	20°♂52'33		morning max el	5840 Sep 14 18:44	5°♂26'01	20°28'57
	5839 Oct 24 21:14	0°♂		asc. node	5840 Sep 23 09:08	16°♂25'38	
					5840 Sep 30 20:22	0°♂	
superior conj	5839 Oct 28 10:52	7°♂01'40	1°32'48	morning set	5840 Oct 03 13:59	5°♂31'44	
minimum elong	5839 Oct 28 13:22	7°♂13'45	1°32'36				
max. Earth dist.	5839 Nov 03 23:37	19°♂20'15	1.38283 AU	superior conj	5840 Oct 11 03:02	21°♂04'00	1°41'30
evening rise	5839 Nov 07 17:55	26°♂03'04		minimum elong	5840 Oct 11 04:00	21°♂08'57	1°41'28
	5839 Nov 10 00:51	0°♂			5840 Oct 15 14:45	0°♂	
desc. node	5839 Nov 12 11:13	4°♂05'18		max. Earth dist.	5840 Oct 16 06:54	1°♂18'13	1.36268 AU
	5839 Nov 29 14:10	0°♂		evening rise	5840 Oct 20 04:40	8°♂40'20	
evening max el	5839 Dec 13 07:20	16°♂32'05	24°55'24	desc. node	5840 Oct 29 08:15	24°♂34'41	
retrograde	5839 Dec 25 01:24	23°♂21'24			5840 Nov 01 17:23	0°♂	
evening set	5839 Dec 30 16:46	21°♂00'36			5840 Nov 24 13:17	0°♂	
asc. node	5840 Jan 03 11:22	16°♂53'59		evening max el	5840 Nov 24 20:02	0°♂16'30	26°03'59
min. Earth dist.	5840 Jan 04 05:39	15°♂54'54	0.67617 AU	retrograde	5840 Dec 07 10:10	7°♂25'12	
inferior conj	5840 Jan 05 06:09	14°♂34'14	0°35'54	evening set	5840 Dec 13 14:53	4°♂52'46	
minimum elong	5840 Jan 05 05:17	14°♂37'06	0°35'34	min. Earth dist.	5840 Dec 17 20:44	0°♂22'05	0.66798 AU
morning rise	5840 Jan 10 17:59	8°♂35'46			5840 Dec 18 03:54	30°♂♂	
direct	5840 Jan 14 08:39	7°♂20'45		inferior conj	5840 Dec 19 08:31	28°♂30'55	-0°20'19
morning max el	5840 Jan 21 17:02	11°♂28'17	19°42'34	minimum elong	5840 Dec 19 09:03	28°♂29'14	0°20'03
greatest brilliancy	5840 Feb 03 16:23	28°♂29'39	-0.7m	asc. node	5840 Dec 20 08:25	27°♂17'21	
	5840 Feb 04 16:47	0°♂		morning rise	5840 Dec 25 03:47	22°♂41'37	
desc. node	5840 Feb 08 10:30	5°♂36'32		direct	5840 Dec 28 07:21	21°♂45'04	
morning set	5840 Feb 16 09:16	17°♂45'25		morning max el	5841 Jan 04 01:49	25°♂27'51	18°49'15
	5840 Feb 24 06:13	0°♂			5841 Jan 07 23:52	0°♂	
max. Earth dist.	5840 Feb 28 05:53	6°♂17'31	1.44404 AU	desc. node	5841 Jan 25 07:31	26°♂00'10	
				morning set	5841 Jan 25 19:41	26°♂47'51	
superior conj	5840 Mar 03 21:47	13°♂45'14	-2°05'17		5841 Jan 27 20:44	0°♂	
minimum elong	5840 Mar 03 17:17	13°♂27'06	2°05'06	max. Earth dist.	5841 Feb 09 23:02	20°♂30'37	1.45231 AU
	5840 Mar 13 18:46	0°♂					
evening rise	5840 Mar 17 12:25	6°♂17'43		superior conj	5841 Feb 11 06:39	22°♂34'44	-1°41'50
asc. node	5840 Mar 31 10:36	28°♂57'37		minimum elong	5841 Feb 10 21:21	21°♂58'13	1°40'59
	5840 Apr 01 04:36	0°♂			5841 Feb 15 23:36	0°♂	
evening max el	5840 Apr 04 22:18	4°♂27'45	18°14'27	evening rise	5841 Feb 26 13:19	16°♂54'10	
retrograde	5840 Apr 11 07:56	7°♂52'07			5841 Mar 06 16:13	0°♂	
evening set	5840 Apr 14 06:34	7°♂06'13		asc. node	5841 Mar 18 07:40	16°♂45'40	
inferior conj	5840 Apr 20 07:03	1°♂46'13	3°24'48	evening max el	5841 Mar 19 09:50	17°♂55'36	18°40'47
minimum elong	5840 Apr 20 08:18	1°♂42'45	3°24'41	retrograde	5841 Mar 26 00:37	21°♂35'01	
	5840 Apr 21 21:09	30°♂♂		evening set	5841 Mar 29 05:47	20°♂36'08	
min. Earth dist.	5840 Apr 22 20:41	28°♂55'51	0.63434 AU	inferior conj	5841 Apr 03 22:04	14°♂58'39	3°30'36
morning rise	5840 Apr 26 08:56	25°♂37'11		minimum elong	5841 Apr 03 21:49	14°♂59'27	3°30'36
direct	5840 May 03 04:51	22°♂57'07		min. Earth dist.	5841 Apr 05 20:14	12°♂38'09	0.65212 AU
desc. node	5840 May 06 09:46	23°♂28'24		morning rise	5841 Apr 09 13:17	8°♂44'28	
	5840 May 16 02:53	0°♂		direct	5841 Apr 16 04:17	5°♂55'26	

desc. node	5841 Apr 23 06:48	8° $\Upsilon$ 28'54		desc. node	5842 Apr 10 03:50	25° $\Upsilon$ 11'38	
morning max el	5841 Apr 29 12:16	13° $\Upsilon$ 46'23	27°02'58	morning max el	5842 Apr 11 22:06	26° $\Upsilon$ 54'17	25°55'30
	5841 May 12 15:20	0° $\Upsilon$			5842 Apr 14 19:23	0° $\Upsilon$	
	5841 May 31 02:33	0° $\Pi$			5842 May 06 06:26	0° $\Upsilon$	
morning set	5841 Jun 04 04:13	7° $\Pi$ 38'37		morning set	5842 May 18 01:58	20° $\Upsilon$ 23'25	
max. Earth dist.	5841 Jun 08 15:05	16° $\Pi$ 26'56	1.33906 AU	max. Earth dist.	5842 May 21 22:12	27° $\Upsilon$ 37'36	1.35507 AU
					5842 May 23 03:39	0° $\Pi$	
superior conj	5841 Jun 12 14:14	24° $\Pi$ 38'00	-0°17'23	superior conj	5842 May 27 08:40	8° $\Pi$ 21'38	-0°47'34
minimum elong	5841 Jun 12 15:10	24° $\Pi$ 42'51	0°17'13	minimum elong	5842 May 27 11:20	8° $\Pi$ 35'10	0°47'05
asc. node	5841 Jun 14 06:53	28° $\Pi$ 12'11		asc. node	5842 Jun 01 03:55	18° $\Pi$ 12'21	
	5841 Jun 15 03:14	0° $\Xi$		evening rise	5842 Jun 04 05:51	24° $\Pi$ 33'35	
evening rise	5841 Jun 19 22:39	10° $\Xi$ 11'16			5842 Jun 06 22:19	0° $\Xi$	
	5841 Jun 30 06:54	0° $\Omega$		evening max el	5842 Jun 22 08:19	24° $\Xi$ 06'45	20°17'21
evening max el	5841 Jul 10 04:19	13° $\Omega$ 09'07	21°39'09	retrograde	5842 Jul 03 03:30	29° $\Xi$ 24'27	
desc. node	5841 Jul 20 06:01	19° $\Omega$ 05'06		evening set	5842 Jul 05 02:08	29° $\Xi$ 14'54	
retrograde	5841 Jul 22 14:15	19° $\Omega$ 18'07		desc. node	5842 Jul 07 03:03	28° $\Xi$ 45'40	
evening set	5841 Jul 25 03:50	19° $\Omega$ 03'11		inferior conj	5842 Jul 14 05:41	25° $\Xi$ 16'59	-2°07'16
inferior conj	5841 Aug 03 11:14	15° $\Omega$ 02'24	-3°56'30	minimum elong	5842 Jul 13 23:46	25° $\Xi$ 25'41	2°05'07
minimum elong	5841 Aug 03 02:13	15° $\Omega$ 15'02	3°54'03	min. Earth dist.	5842 Jul 15 18:09	24° $\Xi$ 23'25	0.54986 AU
min. Earth dist.	5841 Aug 03 06:33	15° $\Omega$ 08'58	0.54810 AU	morning rise	5842 Jul 22 20:10	21° $\Xi$ 04'58	
morning rise	5841 Aug 12 01:50	11° $\Omega$ 10'56		direct	5842 Jul 26 22:02	20° $\Xi$ 28'57	
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morning max el	5841 Aug 27 18:49	16° $\Omega$ 33'01	22°00'45		5842 Aug 12 07:01	0° $\Omega$	
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asc. node	5841 Sep 10 06:10	5° $\P$ 07'55			5842 Aug 30 23:21	0° $\P$	
morning set	5841 Sep 17 23:51	20° $\P$ 20'25		morning set	5842 Sep 02 11:22	5° $\P$ 12'31	
	5841 Sep 22 13:17	0° $\underline{\Omega}$					
superior conj	5841 Sep 25 03:58	5° $\underline{\Omega}$ 31'53	1°42'40	superior conj	5842 Sep 09 10:41	20° $\P$ 15'23	1°37'23
minimum elong	5841 Sep 25 03:33	5° $\underline{\Omega}$ 29'40	1°42'40	minimum elong	5842 Sep 09 09:12	20° $\P$ 07'23	1°37'18
max. Earth dist.	5841 Sep 28 20:45	13° $\underline{\Omega}$ 12'08	1.34553 AU	max. Earth dist.	5842 Sep 11 19:17	25° $\P$ 19'02	1.33246 AU
evening rise	5841 Oct 03 07:40	22° $\underline{\Omega}$ 02'46			5842 Sep 14 00:40	0° $\underline{\Omega}$	
	5841 Oct 07 13:29	0° $\mathbb{L}$		evening rise	5842 Sep 16 22:53	5° $\underline{\Omega}$ 59'03	
desc. node	5841 Oct 16 05:16	14° $\mathbb{L}$ 48'27			5842 Sep 30 04:00	0° $\mathbb{L}$	
	5841 Oct 26 11:56	0° $\mathbb{J}$		desc. node	5842 Oct 03 02:16	4° $\mathbb{L}$ 38'50	
evening max el	5841 Nov 07 08:49	13° $\mathbb{J}$ 54'42	26°56'00	evening max el	5842 Oct 20 20:51	27° $\mathbb{L}$ 15'43	27°24'23
retrograde	5841 Nov 20 13:35	21° $\mathbb{J}$ 12'37			5842 Oct 24 00:04	0° $\mathbb{J}$	
evening set	5841 Nov 27 06:07	18° $\mathbb{J}$ 33'46		retrograde	5842 Nov 03 10:55	4° $\mathbb{J}$ 34'08	
min. Earth dist.	5841 Dec 01 05:33	14° $\mathbb{J}$ 38'11	0.65621 AU	evening set	5842 Nov 10 11:55	1° $\mathbb{J}$ 56'51	
inferior conj	5841 Dec 03 05:03	12° $\mathbb{J}$ 21'33	-1°21'29		5842 Nov 12 19:11	30° $\mathbb{R}\mathbb{L}$	
minimum elong	5841 Dec 03 07:23	12° $\mathbb{J}$ 14'49	1°20'29	min. Earth dist.	5842 Nov 14 06:02	28° $\mathbb{L}$ 34'35	0.64102 AU
asc. node	5841 Dec 07 05:26	8° $\mathbb{J}$ 12'07		inferior conj	5842 Nov 16 17:18	25° $\mathbb{L}$ 59'40	-2°25'51
morning rise	5841 Dec 09 09:40	6° $\mathbb{J}$ 44'00		minimum elong	5842 Nov 16 21:37	25° $\mathbb{L}$ 48'21	2°24'10
direct	5841 Dec 12 04:08	6° $\mathbb{J}$ 02'08		morning rise	5842 Nov 23 08:47	20° $\mathbb{L}$ 36'47	
morning max el	5841 Dec 18 16:02	9° $\mathbb{J}$ 31'14	18°12'20	asc. node	5842 Nov 24 02:27	20° $\mathbb{L}$ 21'11	
	5842 Jan 01 23:00	0° $\mathbb{Z}$		direct	5842 Nov 25 20:32	20° $\mathbb{L}$ 05'38	
morning set	5842 Jan 06 10:42	7° $\mathbb{Z}$ 17'48		morning max el	5842 Dec 02 08:48	23° $\mathbb{L}$ 30'20	17°52'27
desc. node	5842 Jan 12 04:33	16° $\mathbb{Z}$ 35'37			5842 Dec 07 13:19	0° $\mathbb{J}$	
	5842 Jan 20 14:40	0° $\approx$		morning set	5842 Dec 19 05:50	19° $\mathbb{J}$ 10'02	
					5842 Dec 25 15:39	0° $\mathbb{Z}$	
superior conj	5842 Jan 21 10:48	1° $\approx$ 19'22	-1°01'45	desc. node	5842 Dec 30 01:33	7° $\mathbb{Z}$ 18'07	
minimum elong	5842 Jan 21 03:22	0° $\approx$ 50'03	1°00'48				
max. Earth dist.	5842 Jan 23 18:16	4° $\approx$ 57'16	1.45323 AU	superior conj	5843 Jan 01 05:47	10° $\mathbb{Z}$ 50'52	-0°15'18
evening rise	5842 Feb 06 15:57	26° $\approx$ 39'11		minimum elong	5843 Jan 01 04:01	10° $\mathbb{Z}$ 43'45	0°15'02
	5842 Feb 08 19:32	0° $\mathbb{H}$		behind sun begin	5843 Jan 01 00:21	10° $\mathbb{Z}$ 28'52	
greatest brilliancy	5842 Feb 18 16:05	15° $\mathbb{H}$ 13'01	-0.7m	behind sun end	5843 Jan 01 07:42	10° $\mathbb{Z}$ 58'39	
	5842 Mar 01 09:07	0° $\Upsilon$		max. Earth dist.	5843 Jan 06 12:50	19° $\mathbb{Z}$ 20'12	1.44680 AU
evening max el	5842 Mar 02 17:46	1° $\Upsilon$ 28'08	19°24'13		5843 Jan 13 08:05	0° $\approx$	
asc. node	5842 Mar 05 04:41	3° $\Upsilon$ 39'57		evening rise	5843 Jan 17 04:08	5° $\approx$ 55'11	
retrograde	5842 Mar 09 21:22	5° $\Upsilon$ 33'22			5843 Feb 02 05:10	0° $\mathbb{H}$	
evening set	5842 Mar 13 09:55	4° $\Upsilon$ 20'46		evening max el	5843 Feb 13 20:43	15° $\mathbb{H}$ 03'04	20°22'50
	5842 Mar 17 16:29	30° $\mathbb{R}\mathbb{H}$		asc. node	5843 Feb 20 01:42	19° $\mathbb{H}$ 26'22	
inferior conj	5842 Mar 18 21:06	28° $\mathbb{H}$ 27'50	3°21'35	retrograde	5843 Feb 21 19:37	19° $\mathbb{H}$ 42'32	
minimum elong	5842 Mar 18 19:41	28° $\mathbb{H}$ 32'29	3°21'25	evening set	5843 Feb 25 16:48	18° $\mathbb{H}$ 15'25	
min. Earth dist.	5842 Mar 20 04:09	26° $\mathbb{H}$ 46'32	0.66591 AU	inferior conj	5843 Mar 03 01:22	12° $\mathbb{H}$ 09'16	3°00'53
morning rise	5842 Mar 24 05:07	22° $\mathbb{H}$ 12'14		minimum elong	5843 Mar 02 23:14	12° $\mathbb{H}$ 16'32	3°00'26
direct	5842 Mar 30 10:12	19° $\mathbb{H}$ 26'44		min. Earth dist.	5843 Mar 03 18:29	11° $\mathbb{H}$ 10'57	0.67537 AU

morning rise	5843 Mar 08 05:27	5° $\text{K}$ 54'39		minimum elong	5844 Feb 15 06:12	26° $\approx$ 07'13	2°29'47
direct	5843 Mar 13 21:36	3° $\text{K}$ 22'40		min. Earth dist.	5844 Feb 15 13:03	25° $\approx$ 43'29	0.68059 AU
morning max el	5843 Mar 25 06:47	10° $\text{K}$ 11'22	24°31'59	morning rise	5844 Feb 20 11:36	19° $\approx$ 46'54	
desc. node	5843 Mar 28 00:52	13° $\text{K}$ 08'29		direct	5844 Feb 25 13:22	17° $\approx$ 34'55	
	5843 Apr 09 23:45	0° $\text{Y}$		morning max el	5844 Mar 06 16:06	23° $\approx$ 34'32	23°02'36
	5843 Apr 28 22:50	0° $\text{B}$			5844 Mar 12 08:17	0° $\text{K}$	
morning set	5843 Apr 30 05:02	2° $\text{B}$ 11'35		desc. node	5844 Mar 13 21:53	1° $\text{K}$ 57'59	
max. Earth dist.	5843 May 03 20:00	8° $\text{B}$ 39'46	1.37507 AU		5844 Apr 02 09:22	0° $\text{Y}$	
				morning set	5844 Apr 10 07:24	12° $\text{Y}$ 46'56	
superior conj	5843 May 10 16:12	21° $\text{B}$ 30'22	-1°17'23	max. Earth dist.	5844 Apr 14 15:41	20° $\text{Y}$ 08'55	1.39715 AU
minimum elong	5843 May 10 20:33	21° $\text{B}$ 51'25	1°16'43		5844 Apr 20 05:32	0° $\text{B}$	
	5843 May 15 00:02	0° $\text{II}$					
evening rise	5843 May 19 07:22	8° $\text{II}$ 34'58		superior conj	5844 Apr 22 08:44	3° $\text{B}$ 53'22	-1°43'59
asc. node	5843 May 19 00:56	8° $\text{II}$ 03'01		minimum elong	5844 Apr 22 13:56	4° $\text{B}$ 17'17	1°43'26
	5843 May 31 06:29	0° $\text{B}$		evening rise	5844 May 02 00:08	22° $\text{B}$ 06'56	
evening max el	5843 Jun 05 00:59	5° $\text{B}$ 47'26	19°14'39	asc. node	5844 May 04 21:58	27° $\text{B}$ 39'04	
retrograde	5843 Jun 14 03:02	10° $\text{B}$ 14'27			5844 May 06 04:07	0° $\text{II}$	
evening set	5843 Jun 16 02:00	10° $\text{B}$ 02'57		evening max el	5844 May 18 03:45	18° $\text{II}$ 06'35	18°32'18
desc. node	5843 Jun 24 00:05	6° $\text{B}$ 15'17		retrograde	5844 May 25 21:10	21° $\text{II}$ 55'59	
inferior conj	5843 Jun 24 13:15	5° $\text{B}$ 53'25	-0°09'50	evening set	5844 May 28 02:20	21° $\text{II}$ 38'07	
minimum elong	5843 Jun 24 12:50	5° $\text{B}$ 54'08	0°09'42	inferior conj	5844 Jun 04 17:31	17° $\text{II}$ 09'14	1°27'26
transit middle	5843 Jun 24 12:50	5° $\text{B}$ 54'08	0°09'42	minimum elong	5844 Jun 04 20:22	17° $\text{II}$ 03'39	1°26'27
transit begin	5843 Jun 24 09:46	5° $\text{B}$ 59'13		min. Earth dist.	5844 Jun 08 02:32	14° $\text{II}$ 32'19	0.57904 AU
transit end	5843 Jun 24 15:53	5° $\text{B}$ 49'02		desc. node	5844 Jun 09 21:08	13° $\text{II}$ 17'32	
min. Earth dist.	5843 Jun 27 08:21	4° $\text{B}$ 02'11	0.56096 AU	morning rise	5844 Jun 12 11:08	11° $\text{II}$ 48'06	
morning rise	5843 Jul 02 20:39	1° $\text{B}$ 07'26		direct	5844 Jun 18 07:35	10° $\text{II}$ 21'06	
direct	5843 Jul 07 19:51	0° $\text{B}$ 10'39		morning max el	5844 Jul 02 16:48	17° $\text{II}$ 59'14	26°48'13
morning max el	5843 Jul 21 23:45	7° $\text{B}$ 23'32	25°25'19		5844 Jul 12 17:09	0° $\text{B}$	
	5843 Aug 07 15:08	0° $\text{B}$			5844 Jul 30 01:34	0° $\text{B}$	
asc. node	5843 Aug 15 00:13	13° $\text{B}$ 55'41		asc. node	5844 Jul 31 21:15	3° $\text{B}$ 45'59	
morning set	5843 Aug 17 22:54	20° $\text{B}$ 03'14		morning set	5844 Aug 01 08:51	4° $\text{B}$ 47'02	
	5843 Aug 22 13:01	0° $\text{B}$					
				superior conj	5844 Aug 08 08:35	20° $\text{B}$ 00'22	1°10'46
superior conj	5843 Aug 24 20:53	5° $\text{B}$ 07'12	1°26'32	minimum elong	5844 Aug 08 06:18	19° $\text{B}$ 47'43	1°10'23
minimum elong	5843 Aug 24 18:46	4° $\text{B}$ 55'35	1°26'18	max. Earth dist.	5844 Aug 08 11:42	20° $\text{B}$ 17'33	1.31927 AU
max. Earth dist.	5843 Aug 26 01:19	7° $\text{B}$ 43'09	1.32374 AU		5844 Aug 12 21:47	0° $\text{B}$	
evening rise	5843 Aug 31 22:57	20° $\text{B}$ 19'39		evening rise	5844 Aug 15 05:03	4° $\text{B}$ 55'34	
	5843 Sep 05 19:15	0° $\text{B}$			5844 Aug 28 11:41	0° $\text{B}$	
desc. node	5843 Sep 19 23:17	23° $\text{B}$ 56'15		desc. node	5844 Sep 05 20:20	12° $\text{B}$ 27'09	
	5843 Sep 24 08:23	0° $\text{B}$		evening max el	5844 Sep 14 09:48	22° $\text{B}$ 15'03	26°47'55
evening max el	5843 Oct 03 06:08	10° $\text{B}$ 06'56	27°22'51	retrograde	5844 Sep 28 07:27	29° $\text{B}$ 24'11	
retrograde	5843 Oct 17 01:11	17° $\text{B}$ 20'49		evening set	5844 Oct 05 05:00	27° $\text{B}$ 22'26	
evening set	5843 Oct 24 04:59	14° $\text{B}$ 55'31		min. Earth dist.	5844 Oct 08 23:46	24° $\text{B}$ 45'36	0.60257 AU
min. Earth dist.	5843 Oct 27 20:22	12° $\text{B}$ 01'21	0.62287 AU	inferior conj	5844 Oct 12 04:50	22° $\text{B}$ 08'31	-4°28'20
inferior conj	5843 Oct 30 18:21	9° $\text{B}$ 18'20	-3°30'06	minimum elong	5844 Oct 12 11:16	21° $\text{B}$ 55'20	4°26'49
minimum elong	5843 Oct 31 00:22	9° $\text{B}$ 04'17	3°28'08	morning rise	5844 Oct 19 19:37	17° $\text{B}$ 25'12	
morning rise	5843 Nov 06 21:36	4° $\text{B}$ 13'29		direct	5844 Oct 22 02:53	17° $\text{B}$ 05'07	
direct	5843 Nov 09 05:28	3° $\text{B}$ 49'24		asc. node	5844 Oct 27 20:32	19° $\text{B}$ 16'23	
asc. node	5843 Nov 10 23:29	4° $\text{B}$ 03'27		morning max el	5844 Oct 29 13:44	20° $\text{B}$ 45'43	18°07'34
morning max el	5843 Nov 16 01:06	7° $\text{B}$ 17'49	17°50'25		5844 Nov 05 12:44	0° $\text{B}$	
	5843 Nov 30 18:57	0° $\text{B}$		morning set	5844 Nov 14 07:51	15° $\text{B}$ 44'59	
morning set	5843 Dec 01 22:55	2° $\text{B}$ 05'05			5844 Nov 22 00:02	0° $\text{B}$	
superior conj	5843 Dec 13 02:05	21° $\text{B}$ 36'19	0°27'18	superior conj	5844 Nov 23 23:49	3° $\text{B}$ 35'46	1°00'43
minimum elong	5843 Dec 13 04:33	21° $\text{B}$ 46'48	0°26'58	minimum elong	5844 Nov 24 03:38	3° $\text{B}$ 52'52	1°00'15
desc. node	5843 Dec 16 22:32	28° $\text{B}$ 04'09		max. Earth dist.	5844 Dec 01 15:41	16° $\text{B}$ 54'05	1.41580 AU
	5843 Dec 18 02:37	0° $\text{B}$		desc. node	5844 Dec 02 19:33	18° $\text{B}$ 50'45	
max. Earth dist.	5843 Dec 20 04:33	3° $\text{B}$ 23'57	1.43383 AU	evening rise	5844 Dec 06 20:06	25° $\text{B}$ 26'27	
evening rise	5843 Dec 27 16:41	15° $\text{B}$ 19'23			5844 Dec 09 16:39	0° $\text{B}$	
	5844 Jan 06 08:21	0° $\approx$			5844 Dec 30 04:41	0° $\approx$	
evening max el	5844 Jan 27 18:13	28° $\approx$ 39'14	21°33'24	evening max el	5845 Jan 09 10:59	12° $\approx$ 17'36	22°51'25
	5844 Jan 29 03:29	0° $\text{K}$		retrograde	5845 Jan 19 12:53	18° $\approx$ 16'30	
retrograde	5844 Feb 05 17:17	3° $\text{K}$ 58'03		asc. node	5845 Jan 23 19:47	16° $\approx$ 42'17	
asc. node	5844 Feb 06 22:44	3° $\text{K}$ 50'03		evening set	5845 Jan 24 07:50	16° $\approx$ 18'28	
evening set	5844 Feb 10 00:38	2° $\text{K}$ 15'37		inferior conj	5845 Jan 29 16:49	9° $\approx$ 54'34	1°51'42
	5844 Feb 12 07:07	30° $\text{K}$		minimum elong	5845 Jan 29 14:39	10° $\approx$ 02'02	1°50'58
inferior conj	5844 Feb 15 08:35	25° $\approx$ 58'58	2°30'28	min. Earth dist.	5845 Jan 29 09:37	10° $\approx$ 19'27	0.68180 AU

morning rise	5845 Feb 03 21:24	3°  46'29		min. Earth dist.	5846 Jan 13 05:57	24°  54'36	0.67925 AU
direct	5845 Feb 08 08:41	1°  57'13		inferior conj	5846 Jan 14 00:13	23°  53'01	1°05'31
morning max el	5845 Feb 17 05:44	7°  07'12	21°36'28	minimum elong	5846 Jan 13 22:44	23°  57'59	1°04'59
desc. node	5845 Feb 28 18:53	21°  25'33		morning rise	5846 Jan 19 08:45	17°  50'23	
	5845 Mar 06 18:56	0°  ✕		direct	5846 Jan 23 06:27	16°  52'37	
morning set	5845 Mar 21 05:28	22°  ✕02'58		morning max el	5846 Jan 31 02:27	20°  51'07	20°20'12
	5845 Mar 26 03:41	0°  Y			5846 Feb 07 16:34	0°  ≈	
max. Earth dist.	5845 Mar 27 16:02	2°  Y29'38	1.41846 AU	desc. node	5846 Feb 15 15:52	11°  ≈20'19	
					5846 Feb 27 23:53	0°  ✕	
superior conj	5845 Apr 04 05:28	15°  Y19'37	-2°03'13	morning set	5846 Feb 28 05:23	0°  ✕21'13	
minimum elong	5845 Apr 04 09:24	15°  Y36'48	2°03'02	max. Earth dist.	5846 Mar 09 23:13	15°  ✕41'57	1.43625 AU
	5845 Apr 12 10:40	0°  B					
evening rise	5845 Apr 15 04:31	5°  B00'57		superior conj	5846 Mar 16 01:51	25°  ✕39'11	-2°09'38
asc. node	5845 Apr 21 19:02	16°  B55'16		minimum elong	5846 Mar 16 01:11	25°  ✕36'22	2°09'37
	5845 Apr 30 15:30	0°  II			5846 Mar 18 16:31	0°  Y	
evening max el	5845 May 01 13:11	0°  II56'13	18°10'07	evening rise	5846 Mar 28 15:59	17°  Y06'23	
retrograde	5845 May 08 09:46	4°  II24'10			5846 Apr 05 03:05	0°  B	
evening set	5845 May 10 21:56	3°  II56'57		asc. node	5846 Apr 08 16:05	5°  B44'26	
	5845 May 16 19:42	30°  R  B		evening max el	5846 Apr 15 01:46	14°  B06'53	18°07'29
inferior conj	5845 May 17 19:01	29°  B07'29	2°34'19	retrograde	5846 Apr 21 12:39	17°  B28'40	
minimum elong	5845 May 17 22:19	28°  B59'58	2°33'29	evening set	5846 Apr 24 07:28	16°  B50'04	
min. Earth dist.	5845 May 21 03:11	26°  B06'17	0.60069 AU	inferior conj	5846 Apr 30 14:20	11°  B41'03	3°13'02
morning rise	5845 May 24 20:06	23°  B19'35		minimum elong	5846 Apr 30 16:29	11°  B35'27	3°12'43
desc. node	5845 May 27 18:10	21°  B55'27		min. Earth dist.	5846 May 03 12:16	8°  B40'10	0.62261 AU
direct	5845 May 31 08:11	21°  B18'48		morning rise	5846 May 06 23:52	5°  B37'10	
morning max el	5845 Jun 14 16:30	29°  B12'51	27°39'31	direct	5846 May 13 19:23	3°  B07'54	
	5845 Jun 15 11:15	0°  II		desc. node	5846 May 14 15:11	3°  B09'58	
	5845 Jul 06 14:54	0°  ☾		morning max el	5846 May 27 22:05	11°  B09'10	27°53'16
morning set	5845 Jul 16 15:28	19°  ☾18'50			5846 Jun 11 17:26	0°  II	
asc. node	5845 Jul 18 18:17	23°  ☾46'29			5846 Jun 28 22:25	0°  ☾	
	5845 Jul 21 15:23	0°  Ω		morning set	5846 Jun 30 16:45	3°  ☾32'32	
max. Earth dist.	5845 Jul 22 22:37	2°  Ω51'17	1.31906 AU	asc. node	5846 Jul 05 15:20	13°  ☾52'44	
				max. Earth dist.	5846 Jul 06 06:07	15°  ☾12'11	1.32318 AU
superior conj	5845 Jul 23 20:03	4°  Ω49'28	0°50'37				
minimum elong	5845 Jul 23 18:04	4°  Ω38'30	0°50'12	superior conj	5846 Jul 08 05:31	19°  ☾29'07	0°26'37
evening rise	5845 Jul 30 14:56	19°  Ω39'56		minimum elong	5846 Jul 08 04:19	19°  ☾22'33	0°26'20
	5845 Aug 04 15:35	0°  ൬			5846 Jul 13 01:04	0°  Ω	
desc. node	5845 Aug 23 17:23	29°  ൬52'34		evening rise	5846 Jul 15 02:35	4°  Ω26'40	
	5845 Aug 23 20:00	0°  ♌			5846 Jul 28 16:40	0°  ൬	
evening max el	5845 Aug 27 05:39	3°  ♌32'42	25°40'58	evening max el	5846 Aug 08 19:06	14°  ൬08'39	24°11'00
retrograde	5845 Sep 10 04:23	10°  ♌38'01		desc. node	5846 Aug 10 14:25	15°  ൬47'03	
evening set	5845 Sep 16 07:05	9°  ♌10'14		retrograde	5846 Aug 22 14:02	21°  ൬04'50	
min. Earth dist.	5845 Sep 20 17:44	6°  ♌33'29	0.58191 AU	evening set	5846 Aug 27 08:43	20°  ൬14'15	
inferior conj	5845 Sep 23 21:11	4°  ♌19'57	-5°10'16	min. Earth dist.	5846 Sep 02 05:53	17°  ൬18'41	0.56376 AU
minimum elong	5845 Sep 24 01:18	4°  ♌12'37	5°09'48	inferior conj	5846 Sep 04 17:24	15°  ൬46'14	-5°20'23
morning rise	5845 Oct 01 21:50	29°  ൬59'58		minimum elong	5846 Sep 04 15:44	15°  ൬48'51	5°20'20
	5845 Oct 01 21:47	30°  R൬		morning rise	5846 Sep 13 01:10	11°  ൬46'37	
direct	5845 Oct 04 08:09	29°  ൬41'24		direct	5846 Sep 15 18:13	11°  ൬27'20	
	5845 Oct 06 16:56	0°  ♌		morning max el	5846 Sep 25 14:18	16°  ൬03'24	19°44'52
morning max el	5845 Oct 12 19:12	3°  ♌44'01	18°45'20	asc. node	5846 Oct 01 14:37	23°  ൬18'51	
asc. node	5845 Oct 14 17:35	5°  ♌46'31			5846 Oct 05 18:08	0°  ♌	
morning set	5845 Oct 29 03:44	29°  ♌55'02		morning set	5846 Oct 13 07:02	14°  ♌25'48	
	5845 Oct 29 04:45	0°  ♌					
superior conj	5845 Nov 06 18:03	16°  ♌34'26	1°23'52	superior conj	5846 Oct 21 03:31	0°  ♌17'22	1°37'28
minimum elong	5845 Nov 06 21:17	16°  ♌49'44	1°23'33	minimum elong	5846 Oct 21 05:22	0°  ♌26'33	1°37'22
max. Earth dist.	5845 Nov 13 21:50	29°  ♌39'29	1.39495 AU		5846 Oct 21 00:01	0°  ♌	
	5845 Nov 14 02:29	0°  ♌		max. Earth dist.	5846 Oct 27 02:47	11°  ♌47'37	1.37392 AU
evening rise	5845 Nov 17 21:29	6°  ♌32'58		evening rise	5846 Oct 30 21:03	18°  ♌39'53	
desc. node	5845 Nov 19 16:34	9°  ♌33'53			5846 Nov 06 11:16	0°  ♌	
	5845 Dec 02 17:58	0°  ♌		desc. node	5846 Nov 06 13:37	0°  ♌09'46	
evening max el	5845 Dec 23 00:38	25°  ♌58'49	24°11'16		5846 Nov 26 23:16	0°  ♌	
	5845 Dec 27 16:30	0°  ≈		evening max el	5846 Dec 05 13:22	9°  ♌43'24	25°26'08
retrograde	5846 Jan 03 05:07	2°  ≈33'03		retrograde	5846 Dec 17 16:57	16°  ♌42'58	
evening set	5846 Jan 08 12:48	0°  ≈20'01		evening set	5846 Dec 23 13:56	14°  ♌16'51	
	5846 Jan 08 21:54	30°  R  ♌		min. Earth dist.	5846 Dec 27 23:43	9°  ♌25'45	0.67309 AU
asc. node	5846 Jan 10 16:51	28°  ♌08'36		asc. node	5846 Dec 28 13:52	8°  ♌40'16	
				inferior conj	5846 Dec 29 04:58	7°  ♌51'30	0°12'46

minimum elong	5846 Dec 29 04:39	7°  52'33	0°12'40		5847 Oct 30 12:08	0° 	
transit middle	5846 Dec 29 04:39	7°  52'33	0°12'40	evening max el	5847 Nov 18 02:20	23°  26'32	26°28'42
transit begin	5846 Dec 29 02:55	7°  58'10			5847 Nov 27 10:56	0° 	
transit end	5846 Dec 29 06:23	7°  46'57		retrograde	5847 Nov 30 23:29	0° 	0°34'01
morning rise	5847 Jan 03 19:42	1°  56'26			5847 Dec 04 06:41	30°  R 	
direct	5847 Jan 07 05:21	0°  34'45		evening set	5847 Dec 07 09:21	28°  3'04'26	
morning max el	5847 Jan 14 07:02	4°  34'54	19°17'51	min. Earth dist.	5847 Dec 11 12:31	23°  3'48'27	0.66337 AU
greatest brilliancy	5847 Jan 27 14:42	22°  33'30	-0.7m	inferior conj	5847 Dec 13 05:07	21°  3'46'02	-0°45'42
	5847 Feb 01 12:07	0° 		minimum elong	5847 Dec 13 06:23	21°  3'42'14	0°45'09
desc. node	5847 Feb 02 12:53	1°  35'06		asc. node	5847 Dec 15 10:53	19°  3'09'57	
morning set	5847 Feb 07 04:50	8°  47'02		morning rise	5847 Dec 19 04:06	16°  3'01'06	
max. Earth dist.	5847 Feb 20 13:06	29°  36'35	1.44844 AU	direct	5847 Dec 22 03:35	15°  3'11'09	
	5847 Feb 20 19:02	0° 		morning max el	5847 Dec 28 18:19	18°  3'46'56	18°31'28
					5848 Jan 06 08:42	0° 	
superior conj	5847 Feb 23 21:34	4°  35'13	-1°57'47	morning set	5848 Jan 18 02:45	18°  3'25'20	
minimum elong	5847 Feb 23 14:27	4°  36'55	1°57'19	desc. node	5848 Jan 20 09:55	22°  3'04'15	
evening rise	5847 Mar 10 06:15	28°  3'15'43			5848 Jan 25 10:13	0° 	
	5847 Mar 11 07:24	0° 					
asc. node	5847 Mar 26 13:08	23°  3'57'51		superior conj	5848 Feb 03 01:59	13°  3'36'04	-1°26'22
evening max el	5847 Mar 29 14:29	27°  3'30'41	18°23'31	minimum elong	5848 Feb 02 16:37	12°  3'59'23	1°25'21
	5847 Apr 01 16:53	0° 		max. Earth dist.	5848 Feb 03 07:38	13°  3'58'13	1.45364 AU
retrograde	5847 Apr 05 01:18	0°  3'59'50			5848 Feb 13 12:35	0° 	
evening set	5847 Apr 08 02:38	0°  3'08'35		evening rise	5848 Feb 18 21:15	8°  3'28'52	
	5847 Apr 08 08:38	30°  R 		greatest brilliancy	5848 Feb 28 00:24	22°  3'56'31	-0.8m
inferior conj	5847 Apr 13 23:16	24°  3'41'15	3°29'18		5848 Mar 03 14:38	0° 	
minimum elong	5847 Apr 13 23:51	24°  3'39'33	3°29'16	evening max el	5848 Mar 12 00:50	11°  3'01'51	18°57'18
min. Earth dist.	5847 Apr 16 06:31	22°  3'01'40	0.64240 AU	asc. node	5848 Mar 12 10:09	11°  3'25'05	
morning rise	5847 Apr 19 20:11	18°  3'29'29		retrograde	5848 Mar 18 19:59	14°  3'50'34	
direct	5847 Apr 26 14:55	15°  3'43'36		evening set	5848 Mar 22 04:17	13°  3'45'49	
desc. node	5847 May 01 12:12	16°  3'56'36		inferior conj	5848 Mar 27 18:04	8°  3'01'37	3°28'22
morning max el	5847 May 10 07:08	23°  3'41'31	27°30'23	minimum elong	5848 Mar 27 17:16	8°  3'04'09	3°28'18
	5847 May 15 22:23	0° 		min. Earth dist.	5848 Mar 29 09:40	5°  3'57'09	0.65857 AU
	5847 Jun 05 01:35	0° 		morning rise	5848 Apr 02 05:50	1°  3'46'46	
morning set	5847 Jun 14 10:04	17°  3'11'24			5848 Apr 04 17:58	30°  R 	
max. Earth dist.	5847 Jun 19 06:16	27°  3'11'08'04	1.33192 AU	direct	5848 Apr 08 17:15	28°  3'57'49	
	5847 Jun 20 15:08	0° 			5848 Apr 13 00:38	0° 	
				desc. node	5848 Apr 17 09:12	2°  3'44'47	
superior conj	5847 Jun 22 10:58	3°  3'52'17	-0°00'36	morning max el	5848 Apr 21 17:12	6°  3'39'51	26°36'52
minimum elong	5847 Jun 22 11:00	3°  3'52'28	0°00'38		5848 May 09 17:22	0° 	
behind sun begin	5847 Jun 22 05:35	3°  3'52'35			5848 May 27 09:46	0° 	
behind sun end	5847 Jun 22 16:25	4°  3'52'1'24		morning set	5848 May 27 16:10	0°  3'30'13	
asc. node	5847 Jun 22 12:22	3°  3'59'45		max. Earth dist.	5848 May 31 20:05	8°  3'34'30	1.34539 AU
evening rise	5847 Jun 29 14:03	19°  3'58'47					
	5847 Jul 04 21:47	0° 		superior conj	5848 Jun 05 10:12	17°  3'52'44	-0°30'05
evening max el	5847 Jul 21 08:18	24°  3'28'05	22°33'00	minimum elong	5848 Jun 05 11:51	18°  3'01'15	0°29'46
desc. node	5847 Jul 28 11:28	29°  3'37'04		asc. node	5848 Jun 08 09:23	24°  3'03'43	
	5847 Jul 29 09:02	0° 			5848 Jun 11 05:14	0° 	
retrograde	5847 Aug 03 10:50	0°  3'59'21		evening rise	5848 Jun 12 23:27	3°  3'40'30	
evening set	5847 Aug 06 17:07	0°  3'36'00			5848 Jun 27 19:45	0° 	
	5847 Aug 08 17:26	30°  R 		evening max el	5848 Jul 02 05:19	5°  3'04'26	21°02'10
min. Earth dist.	5847 Aug 14 15:40	27°  3'07'20	0.55148 AU	retrograde	5848 Jul 13 23:25	10°  3'52'06	
inferior conj	5847 Aug 15 19:25	26°  3'02'56	-4°42'22	desc. node	5848 Jul 14 08:28	10°  3'51'45	
minimum elong	5847 Aug 15 11:37	26°  3'03'02	4°40'52	evening set	5848 Jul 16 04:38	10°  3'40'31	
morning rise	5847 Aug 24 08:02	22°  3'03'8'21		inferior conj	5848 Jul 25 12:25	6°  3'42'58	-3°13'24
direct	5847 Aug 27 10:59	22°  3'01'6'02		minimum elong	5848 Jul 25 04:01	6°  3'54'47	3°10'43
morning max el	5847 Sep 07 20:57	27°  3'03'5'43	21°05'52	min. Earth dist.	5848 Jul 26 01:45	6°  3'52'4'10	0.54775 AU
	5847 Sep 10 05:29	0° 		morning rise	5848 Aug 03 03:41	2°  3'45'25	
asc. node	5847 Sep 18 11:38	11°  3'38'41		direct	5848 Aug 06 19:49	2°  3'16'27	
morning set	5847 Sep 27 15:05	29°  3'39'09'09		morning max el	5848 Aug 19 16:33	8°  3'24'13	22°43'58
	5847 Sep 28 00:53	0° 		asc. node	5848 Sep 04 08:39	0° 	
					5848 Sep 04 01:09	0° 	
superior conj	5847 Oct 04 23:46	14°  3'31'05	1°42'50	morning set	5848 Sep 11 01:50	13°  3'39'31	
minimum elong	5847 Oct 05 00:07	14°  3'32'53	1°42'50				
max. Earth dist.	5847 Oct 09 12:20	23°  3'40'27	1.35496 AU	superior conj	5848 Sep 18 03:26	29°  3'05'51	1°41'09
	5847 Oct 12 18:36	0° 		minimum elong	5848 Sep 18 02:31	29°  3'00'57	1°41'07
evening rise	5847 Oct 13 15:13	1°  3'37'26			5848 Sep 18 13:36	0° 	
desc. node	5847 Oct 24 10:40	20°  3'33'00		max. Earth dist.	5848 Sep 21 06:07	5°  3'39'20	1.33951 AU

evening rise	5848 Sep 25 23:51	15° $\Omega$ 14'54		evening rise	5849 Sep 09 19:13	29° $\Pi$ 22'28	
	5848 Oct 03 22:30	0° $\Pi$			5849 Sep 10 02:36	0° $\Omega$	
desc. node	5848 Oct 10 07:42	10° $\Pi$ 37'31		desc. node	5849 Sep 27 04:43	0° $\Pi$ 15'26	
	5848 Oct 24 04:28	0° $\mathcal{A}$			5849 Sep 27 00:38	0° $\Pi$	
evening max el	5848 Oct 30 15:05	6° $\mathcal{A}$ 58'43	27°11'26	evening max el	5849 Oct 13 02:08	20° $\Pi$ 08'16	27°27'37
retrograde	5848 Nov 13 00:05	14° $\mathcal{A}$ 16'49		retrograde	5849 Oct 26 18:28	27° $\Pi$ 25'12	
evening set	5848 Nov 19 20:53	11° $\mathcal{A}$ 37'38		evening set	5849 Nov 02 21:44	24° $\Pi$ 51'16	
min. Earth dist.	5848 Nov 23 17:57	7° $\mathcal{A}$ 56'40	0.65015 AU	min. Earth dist.	5849 Nov 06 14:05	21° $\Pi$ 42'17	0.63362 AU
inferior conj	5848 Nov 25 22:25	5° $\mathcal{A}$ 31'30	-1°48'34	inferior conj	5849 Nov 09 06:19	19° $\Pi$ 02'16	-2°53'25
minimum elong	5848 Nov 26 01:36	5° $\mathcal{A}$ 22'41	1°47'15	minimum elong	5849 Nov 09 11:26	18° $\Pi$ 49'29	2°51'32
asc. node	5848 Dec 01 07:55	0° $\mathcal{A}$ 31'38		morning rise	5849 Nov 16 02:46	13° $\Pi$ 46'58	
morning rise	5848 Dec 02 07:29	29° $\Pi$ 59'45		asc. node	5849 Nov 18 04:57	13° $\Pi$ 19'44	
	5848 Dec 02 07:16	30° $\mathcal{R}\Pi$		direct	5849 Nov 18 12:32	13° $\Pi$ 19'14	
direct	5848 Dec 04 22:55	29° $\Pi$ 22'46		morning max el	5849 Nov 25 02:59	16° $\Pi$ 44'15	17°49'26
	5848 Dec 07 14:53	0° $\mathcal{A}$			5849 Dec 04 13:39	0° $\mathcal{A}$	
morning max el	5848 Dec 11 09:56	2° $\mathcal{A}$ 48'36	18°01'48	morning set	5849 Dec 11 11:37	11° $\mathcal{A}$ 53'29	
morning set	5848 Dec 29 06:18	29° $\mathcal{A}$ 32'03			5849 Dec 22 01:51	0° $\mathcal{B}$	
	5848 Dec 29 13:03	0° $\mathcal{B}$					
desc. node	5849 Jan 06 06:55	12° $\mathcal{B}$ 42'49		superior conj	5849 Dec 23 15:33	2° $\mathcal{B}$ 36'17	0°03'41
				minimum elong	5849 Dec 23 15:56	2° $\mathcal{B}$ 37'52	0°03'40
superior conj	5849 Jan 12 10:15	22° $\mathcal{B}$ 34'11	-0°42'07	behind sun begin	5849 Dec 23 06:38	1° $\mathcal{B}$ 59'25	
minimum elong	5849 Jan 12 05:08	22° $\mathcal{B}$ 13'49	0°41'23	behind sun end	5849 Dec 24 01:14	3° $\mathcal{B}$ 16'14	
max. Earth dist.	5849 Jan 16 03:29	28° $\mathcal{B}$ 27'04	1.45135 AU	desc. node	5849 Dec 24 03:57	3° $\mathcal{B}$ 27'25	
	5849 Jan 17 03:07	0° $\approx$		max. Earth dist.	5849 Dec 29 21:16	12° $\mathcal{B}$ 44'22	1.44195 AU
evening rise	5849 Jan 28 16:18	17° $\approx$ 57'44		evening rise	5850 Jan 08 02:41	27° $\mathcal{B}$ 12'14	
	5849 Feb 05 12:25	0° $\mathcal{H}$			5850 Jan 09 22:23	0° $\approx$	
greatest brilliancy	5849 Feb 11 10:39	8° $\mathcal{H}$ 56'10	-0.7m		5850 Jan 30 11:43	0° $\mathcal{H}$	
evening max el	5849 Feb 23 06:46	24° $\mathcal{H}$ 35'27	19°47'26	evening max el	5850 Feb 06 07:18	8° $\mathcal{H}$ 10'16	20°51'33
asc. node	5849 Feb 27 07:11	27° $\mathcal{H}$ 52'21		asc. node	5850 Feb 14 04:12	13° $\mathcal{H}$ 05'13	
retrograde	5849 Mar 02 17:43	28° $\mathcal{H}$ 54'13		retrograde	5850 Feb 14 16:05	13° $\mathcal{H}$ 06'31	
evening set	5849 Mar 06 09:51	27° $\mathcal{H}$ 35'19		evening set	5850 Feb 18 17:23	11° $\mathcal{H}$ 32'54	
inferior conj	5849 Mar 11 19:37	21° $\mathcal{H}$ 36'17	3°14'05	inferior conj	5850 Feb 24 01:26	5° $\mathcal{H}$ 21'38	2°49'04
minimum elong	5849 Mar 11 17:50	21° $\mathcal{H}$ 42'13	3°13'48	minimum elong	5850 Feb 23 23:08	5° $\mathcal{H}$ 29'31	2°48'31
min. Earth dist.	5849 Mar 12 20:28	20° $\mathcal{H}$ 13'27	0.67046 AU	min. Earth dist.	5850 Feb 24 12:57	4° $\mathcal{H}$ 41'54	0.67805 AU
morning rise	5849 Mar 17 01:36	15° $\mathcal{H}$ 21'02			5850 Feb 28 07:12	30° $\mathcal{R}\approx$	
direct	5849 Mar 23 01:23	12° $\mathcal{H}$ 40'34		morning rise	5850 Mar 01 04:43	29° $\approx$ 07'46	
morning max el	5849 Apr 04 02:36	19° $\mathcal{H}$ 52'43	25°21'25	direct	5850 Mar 06 14:41	26° $\approx$ 43'57	
desc. node	5849 Apr 04 06:13	20° $\mathcal{H}$ 01'54			5850 Mar 13 22:35	0° $\mathcal{H}$	
	5849 Apr 12 18:12	0° $\mathcal{Y}$		morning max el	5850 Mar 17 11:27	3° $\mathcal{H}$ 13'03	23°54'08
	5849 May 02 20:39	0° $\mathcal{B}$		desc. node	5850 Mar 22 03:15	8° $\mathcal{H}$ 23'09	
morning set	5849 May 10 06:39	12° $\mathcal{B}$ 52'32			5850 Apr 06 22:11	0° $\mathcal{Y}$	
max. Earth dist.	5849 May 13 23:07	19° $\mathcal{B}$ 39'47	1.36327 AU	morning set	5850 Apr 21 24:00	24° $\mathcal{Y}$ 11'45	
	5849 May 19 07:48	0° $\Pi$			5850 Apr 25 07:59	0° $\mathcal{B}$	
				max. Earth dist.	5850 Apr 25 19:08	0° $\mathcal{B}$ 49'21	1.38436 AU
superior conj	5849 May 20 00:26	1° $\Pi$ 22'21	-1°00'24				
minimum elong	5849 May 20 03:51	1° $\Pi$ 39'23	0°59'48	superior conj	5850 May 03 02:07	14° $\mathcal{B}$ 12'36	-1°29'16
asc. node	5849 May 26 06:25	14° $\Pi$ 00'18		minimum elong	5850 May 03 07:00	14° $\mathcal{B}$ 35'43	1°28'37
evening rise	5849 May 28 04:34	17° $\Pi$ 54'53			5850 May 11 05:26	0° $\Pi$	
	5849 Jun 03 09:06	0° $\mathcal{B}$		evening rise	5850 May 12 02:48	1° $\Pi$ 44'48	
evening max el	5849 Jun 14 14:41	16° $\mathcal{B}$ 19'17	19°48'03	asc. node	5850 May 13 03:28	3° $\Pi$ 45'16	
retrograde	5849 Jun 24 15:53	21° $\mathcal{B}$ 14'52		evening max el	5850 May 28 12:02	28° $\Pi$ 17'07	18°54'05
evening set	5849 Jun 26 13:24	21° $\mathcal{B}$ 05'06			5850 May 30 11:27	0° $\mathcal{B}$	
desc. node	5849 Jul 01 05:28	19° $\mathcal{B}$ 28'20		retrograde	5850 Jun 05 23:07	2° $\mathcal{B}$ 26'29	
inferior conj	5849 Jul 05 10:57	17° $\mathcal{B}$ 03'12	-1°16'19	evening set	5850 Jun 08 00:12	2° $\mathcal{B}$ 12'53	
minimum elong	5849 Jul 05 07:26	17° $\mathcal{B}$ 08'38	1°15'01		5850 Jun 13 01:23	30° $\mathcal{R}\Pi$	
min. Earth dist.	5849 Jul 07 14:06	15° $\mathcal{B}$ 44'34	0.55357 AU	inferior conj	5850 Jun 16 02:57	27° $\Pi$ 55'41	0°34'53
morning rise	5849 Jul 13 23:24	12° $\mathcal{B}$ 37'49		minimum elong	5850 Jun 16 04:19	27° $\Pi$ 53'16	0°34'22
direct	5849 Jul 18 09:43	11° $\mathcal{B}$ 54'36		desc. node	5850 Jun 18 02:31	26° $\Pi$ 30'39	
morning max el	5849 Aug 01 06:27	18° $\mathcal{B}$ 46'57	24°28'31	min. Earth dist.	5850 Jun 19 06:04	25° $\Pi$ 42'40	0.56795 AU
	5849 Aug 10 14:59	0° $\Omega$		morning rise	5850 Jun 24 05:03	22° $\Pi$ 53'41	
asc. node	5849 Aug 22 05:41	19° $\Omega$ 57'52		direct	5850 Jun 29 13:29	21° $\Pi$ 44'58	
morning set	5849 Aug 26 13:35	28° $\Omega$ 51'54		morning max el	5850 Jul 13 21:03	29° $\Pi$ 10'49	26°03'47
	5849 Aug 27 02:23	0° $\Pi$			5850 Jul 14 17:01	0° $\mathcal{B}$	
					5850 Aug 04 05:23	0° $\Omega$	
superior conj	5849 Sep 02 11:55	13° $\Pi$ 53'49	1°33'25	asc. node	5850 Aug 09 02:43	9° $\Omega$ 40'08	
minimum elong	5849 Sep 02 10:06	13° $\Pi$ 43'59	1°33'16	morning set	5850 Aug 11 00:40	13° $\Omega$ 40'27	
max. Earth dist.	5849 Sep 04 08:16	17° $\Pi$ 54'21	1.32820 AU				

superior conj	5850 Aug 17 23:00	28°♎47'13	1°20'26	superior conj	5851 Aug 02 10:53	13°♎40'01	1°02'45
minimum elong	5850 Aug 17 20:45	28°♎34'50	1°20'07	minimum elong	5851 Aug 02 08:40	13°♎27'45	1°02'20
max. Earth dist.	5850 Aug 18 16:26	0°♎23'18	1.32125 AU	max. Earth dist.	5851 Aug 02 03:24	12°♎58'39	1.31866 AU
	5850 Aug 18 12:12	0°♎		evening rise	5851 Aug 09 06:10	28°♎31'23	
evening rise	5850 Aug 24 22:09	13°♎50'27			5851 Aug 09 22:57	0°♎	
	5850 Sep 02 04:01	0°♎			5851 Aug 26 13:56	0°♎	
desc. node	5850 Sep 14 01:45	19°♎15'08		desc. node	5851 Aug 31 22:47	7°♎21'03	
	5850 Sep 22 16:55	0°♎		evening max el	5851 Sep 07 09:46	14°♎29'23	26°23'02
evening max el	5850 Sep 25 09:08	2°♎41'49	27°12'08	retrograde	5851 Sep 21 08:31	21°♎36'55	
retrograde	5850 Oct 09 05:49	9°♎54'34		evening set	5851 Sep 27 23:28	19°♎48'56	
evening set	5850 Oct 16 08:11	7°♎37'35		min. Earth dist.	5851 Oct 01 23:12	17°♎14'06	0.59369 AU
min. Earth dist.	5850 Oct 19 23:48	4°♎52'35	0.61435 AU	inferior conj	5851 Oct 05 04:47	14°♎44'53	-4°48'56
inferior conj	5850 Oct 23 01:36	2°♎09'47	-3°56'05	minimum elong	5851 Oct 05 10:40	14°♎33'31	4°47'50
minimum elong	5850 Oct 23 08:02	1°♎55'33	3°54'12	morning rise	5851 Oct 13 00:03	10°♎11'09	
	5850 Oct 25 14:50	30°♎		direct	5851 Oct 15 08:01	9°♎52'03	
morning rise	5850 Oct 30 09:54	27°♎14'00		asc. node	5851 Oct 22 23:03	13°♎28'52	
direct	5850 Nov 01 16:56	26°♎52'07		morning max el	5851 Oct 23 04:13	13°♎41'10	18°20'55
asc. node	5850 Nov 05 02:00	27°♎41'32			5851 Nov 03 06:26	0°♎	
	5850 Nov 08 07:49	0°♎		morning set	5851 Nov 08 02:12	9°♎03'02	
morning max el	5850 Nov 08 18:13	0°♎24'49	17°55'20				
morning set	5850 Nov 24 12:07	25°♎09'09		superior conj	5851 Nov 17 06:10	26°♎20'12	1°11'46
	5850 Nov 27 03:54	0°♎		minimum elong	5851 Nov 17 09:55	26°♎37'19	1°11'20
					5851 Nov 19 06:31	0°♎	
superior conj	5850 Dec 04 23:07	13°♎54'21	0°42'43	max. Earth dist.	5851 Nov 24 19:06	9°♎42'52	1.40717 AU
minimum elong	5850 Dec 05 02:28	14°♎08'55	0°42'16	desc. node	5851 Nov 27 22:00	14°♎59'23	
desc. node	5850 Dec 11 00:58	24°♎14'01		evening rise	5851 Nov 29 08:27	17°♎22'02	
max. Earth dist.	5850 Dec 12 10:32	26°♎32'47	1.42660 AU		5851 Dec 07 06:58	0°♎	
	5850 Dec 14 13:18	0°♎			5851 Dec 28 19:46	0°♎	
evening rise	5850 Dec 18 20:04	6°♎50'39		evening max el	5852 Jan 02 17:52	5°♎26'09	23°25'41
	5851 Jan 03 04:42	0°♎		retrograde	5852 Jan 13 07:21	11°♎40'41	
evening max el	5851 Jan 20 02:33	21°♎46'35	22°06'02	evening set	5852 Jan 18 07:33	9°♎36'23	
retrograde	5851 Jan 29 13:09	27°♎23'16		asc. node	5852 Jan 18 22:19	9°♎03'23	
asc. node	5851 Feb 01 01:15	26°♎50'18		min. Earth dist.	5852 Jan 23 05:34	3°♎51'29	0.68116 AU
evening set	5851 Feb 03 01:09	25°♎34'23		inferior conj	5852 Jan 23 17:25	3°♎10'49	1°32'59
inferior conj	5851 Feb 08 09:20	19°♎14'07	2°14'59	minimum elong	5852 Jan 23 15:30	3°♎17'26	1°32'18
minimum elong	5851 Feb 08 07:00	19°♎22'15	2°14'17		5852 Jan 26 03:11	30°♎	
min. Earth dist.	5851 Feb 08 08:48	19°♎15'59	0.68152 AU	morning rise	5852 Jan 28 23:23	27°♎04'43	
morning rise	5851 Feb 13 12:41	13°♎03'18		direct	5852 Feb 02 04:50	25°♎24'57	
direct	5851 Feb 18 08:12	11°♎00'43			5852 Feb 10 08:03	0°♎	
morning max el	5851 Feb 27 22:07	16°♎39'26	22°25'05	morning max el	5852 Feb 10 14:18	0°♎15'29	21°02'27
desc. node	5851 Mar 09 00:16	27°♎30'12		desc. node	5852 Feb 23 21:16	17°♎10'05	
	5851 Mar 10 20:48	0°♎			5852 Mar 03 14:42	0°♎	
	5851 Mar 30 23:45	0°♎		morning set	5852 Mar 12 01:19	12°♎58'29	
morning set	5851 Apr 02 14:30	4°♎13'32		max. Earth dist.	5852 Mar 19 18:38	25°♎19'05	1.42658 AU
max. Earth dist.	5851 Apr 07 15:33	12°♎36'13	1.40640 AU		5852 Mar 22 14:57	0°♎	
superior conj	5851 Apr 15 10:54	26°♎13'07	-1°53'20	superior conj	5852 Mar 26 21:43	7°♎11'42	-2°07'52
minimum elong	5851 Apr 15 15:55	26°♎35'40	1°52'56	minimum elong	5852 Mar 27 00:08	7°♎21'58	2°07'49
	5851 Apr 17 13:02	0°♎		evening rise	5852 Apr 07 12:32	27°♎35'45	
evening rise	5851 Apr 25 14:50	15°♎01'53			5852 Apr 08 20:41	0°♎	
asc. node	5851 Apr 30 00:31	23°♎13'46		asc. node	5852 Apr 15 21:34	12°♎19'06	
	5851 May 03 20:40	0°♎		evening max el	5852 Apr 24 05:27	23°♎51'06	18°06'44
evening max el	5851 May 11 18:13	10°♎51'21	18°20'32	retrograde	5852 Apr 30 20:26	27°♎14'19	
retrograde	5851 May 19 01:18	14°♎29'24		evening set	5852 May 03 11:37	26°♎42'17	
evening set	5851 May 21 09:29	14°♎07'53		inferior conj	5852 May 10 02:08	21°♎44'21	2°53'50
inferior conj	5851 May 28 16:36	9°♎30'37	1°59'27	minimum elong	5852 May 10 05:04	21°♎37'17	2°53'13
minimum elong	5851 May 28 19:56	9°♎23'39	1°58'27	min. Earth dist.	5852 May 13 06:47	18°♎40'35	0.61016 AU
min. Earth dist.	5851 Jun 01 02:58	6°♎40'09	0.58801 AU	morning rise	5852 May 16 20:23	15°♎48'50	
desc. node	5851 Jun 04 23:32	4°♎01'57		desc. node	5852 May 21 20:34	13°♎43'09	
morning rise	5851 Jun 05 03:17	3°♎56'50		direct	5852 May 23 12:50	13°♎34'53	
direct	5851 Jun 11 07:29	2°♎14'59		morning max el	5852 Jun 06 18:55	21°♎32'14	27°50'01
morning max el	5851 Jun 25 16:45	10°♎01'23	27°14'18		5852 Jun 14 03:53	0°♎	
	5851 Jul 11 01:35	0°♎			5852 Jul 03 02:34	0°♎	
morning set	5851 Jul 26 09:27	28°♎20'12		morning set	5852 Jul 09 14:03	12°♎44'47	
asc. node	5851 Jul 26 23:46	29°♎35'42		asc. node	5852 Jul 12 20:49	19°♎38'58	
	5851 Jul 27 04:22	0°♎		max. Earth dist.	5852 Jul 15 13:24	25°♎28'36	1.32035 AU




































































































































superior conj	5852 Jul 16 21:42	28°☿25'40	0°40'54	max. Earth dist.	5853 Jun 28 18:26	7°☿40'44	1.32639 AU
minimum elong	5852 Jul 16 19:59	28°☿16'15	0°40'31	asc. node	5853 Jun 29 17:51	9°☿45'43	
	5852 Jul 17 14:51	0°♌					
evening rise	5852 Jul 23 17:03	13°♌17'37		superior conj	5853 Jul 01 05:40	12°☿58'35	0°15'26
	5852 Aug 01 01:52	0°♍		minimum elong	5853 Jul 01 04:56	12°☿54'36	0°15'15
desc. node	5852 Aug 17 19:49	24°♍11'16		behind sun begin	5853 Jul 01 03:23	12°☿46'10	
evening max el	5852 Aug 19 02:41	25°♍27'51	25°04'41	behind sun end	5853 Jul 01 06:30	13°☿03'02	
	5852 Aug 24 21:48	0°♎		evening rise	5853 Jul 08 04:50	28°☿02'57	
retrograde	5852 Sep 02 00:28	2°♎29'26			5853 Jul 09 02:57	0°♏	
evening set	5852 Sep 07 15:00	1°♎17'59			5853 Jul 26 10:02	0°♍	
	5852 Sep 10 06:30	30°♏♍		evening max el	5853 Jul 31 14:52	5°♍51'52	23°29'10
min. Earth dist.	5852 Sep 12 14:09	28°♍35'21	0.57378 AU	desc. node	5853 Aug 04 16:51	9°♍16'55	
inferior conj	5852 Sep 15 12:40	26°♍37'45	-5°19'28	retrograde	5853 Aug 14 04:22	12°♍39'56	
minimum elong	5852 Sep 15 14:42	26°♍34'21	5°19'22	evening set	5853 Aug 18 07:32	12°♍02'29	
morning rise	5852 Sep 23 16:39	22°♍26'50		min. Earth dist.	5853 Aug 25 00:28	8°♍54'34	0.55769 AU
direct	5852 Sep 26 05:36	22°♍08'03		inferior conj	5853 Aug 27 00:27	7°♍43'30	-5°10'48
morning max el	5852 Oct 05 05:30	26°♍23'25	19°07'54	minimum elong	5853 Aug 26 19:51	7°♍50'21	5°10'20
	5852 Oct 08 11:38	0°♎		morning rise	5853 Sep 04 10:34	3°♍50'19	
asc. node	5852 Oct 08 20:05	0°♎27'01		direct	5853 Sep 07 07:36	3°♍30'02	
morning set	5852 Oct 22 01:38	23°♎23'13		morning max el	5853 Sep 17 19:21	8°♍22'55	20°16'54
	5852 Oct 25 09:27	0°♏		asc. node	5853 Sep 25 17:06	18°♍20'54	
					5853 Oct 02 07:05	0°♎	
superior conj	5852 Oct 30 07:29	9°♏39'21	1°30'43	morning set	5853 Oct 06 07:13	8°♎00'12	
minimum elong	5852 Oct 30 10:11	9°♏52'22	1°30'31				
max. Earth dist.	5852 Nov 06 00:40	22°♏12'51	1.38594 AU	superior conj	5853 Oct 13 22:00	23°♎36'53	1°40'40
evening rise	5852 Nov 09 19:35	28°♏55'05		minimum elong	5853 Oct 13 23:12	23°♎42'58	1°40'39
	5852 Nov 10 10:37	0°♐			5853 Oct 17 02:59	0°♏	
desc. node	5852 Nov 13 19:02	5°♐40'03		max. Earth dist.	5853 Oct 19 07:04	4°♏12'09	1.36548 AU
	5852 Nov 29 16:51	0°♑		evening rise	5853 Oct 23 03:30	11°♏24'27	
evening max el	5852 Dec 15 07:03	19°♑09'39	24°44'11	desc. node	5853 Oct 31 16:04	26°♏11'08	
retrograde	5852 Dec 26 21:38	25°♑55'14			5853 Nov 03 00:35	0°♐	
evening set	5853 Jan 01 11:03	23°♑36'17			5853 Nov 25 00:09	0°♑	
asc. node	5853 Jan 04 19:20	20°♑01'13		evening max el	5853 Nov 27 19:38	2°♑53'48	25°54'37
min. Earth dist.	5853 Jan 06 01:00	18°♑25'34	0.67710 AU	retrograde	5853 Dec 10 07:14	10°♑00'44	
inferior conj	5853 Jan 06 23:54	17°♑09'40	0°43'56	evening set	5853 Dec 16 09:59	7°♑29'42	
minimum elong	5853 Jan 06 22:52	17°♑13'07	0°43'32	min. Earth dist.	5853 Dec 20 16:47	2°♑53'47	0.66941 AU
morning rise	5853 Jan 12 10:49	11°♑10'09		inferior conj	5853 Dec 22 02:54	1°♑06'41	-0°11'24
direct	5853 Jan 16 03:17	9°♑52'09		minimum elong	5853 Dec 22 03:12	1°♑05'45	0°11'15
morning max el	5853 Jan 23 14:24	14°♑04'20	19°51'52	transit middle	5853 Dec 22 03:12	1°♑05'45	0°11'15
	5853 Feb 04 21:12	0°♒		transit begin	5853 Dec 22 01:10	1°♑12'08	
greatest brilliancy	5853 Feb 05 20:12	1°♒24'15	-0.6m	transit end	5853 Dec 22 05:14	0°♑59'22	
desc. node	5853 Feb 09 18:17	7°♒14'16		asc. node	5853 Dec 22 16:21	0°♑24'40	
morning set	5853 Feb 18 21:50	21°♒10'44			5853 Dec 23 00:20	30°♒♐	
	5853 Feb 24 14:12	0°♓		morning rise	5853 Dec 27 20:57	25°♐15'55	
max. Earth dist.	5853 Mar 02 05:32	8°♓53'42	1.44224 AU	direct	5853 Dec 31 02:00	24°♐16'55	
				morning max el	5854 Jan 06 22:09	28°♐02'47	18°56'10
superior conj	5853 Mar 07 07:12	17°♓02'35	-2°07'04		5854 Jan 08 17:45	0°♑	
minimum elong	5853 Mar 07 03:44	16°♓48'28	2°06'57	desc. node	5854 Jan 27 15:18	27°♑35'39	
	5853 Mar 15 03:37	0°♒		morning set	5854 Jan 29 04:46	0°♒01'53	
evening rise	5853 Mar 20 15:27	9°♒18'07			5854 Jan 29 04:17	0°♒	
	5853 Apr 02 03:53	0°♓		max. Earth dist.	5854 Feb 12 21:47	23°♒02'00	1.45154 AU
asc. node	5853 Apr 02 18:36	0°♓54'00					
evening max el	5853 Apr 07 18:24	7°♓07'50	18°12'01	superior conj	5854 Feb 14 18:25	25°♒57'29	-1°46'37
retrograde	5853 Apr 14 04:06	10°♓31'13		minimum elong	5854 Feb 14 09:28	25°♒22'17	1°45'53
evening set	5853 Apr 17 01:43	9°♓47'14			5854 Feb 17 07:52	0°♓	
inferior conj	5853 Apr 23 03:43	4°♓29'55	3°22'21	evening rise	5854 Mar 01 19:49	20°♓02'48	
minimum elong	5853 Apr 23 05:13	4°♓25'50	3°22'11		5854 Mar 07 22:42	0°♒	
min. Earth dist.	5853 Apr 25 19:33	1°♓36'17	0.63139 AU	asc. node	5854 Mar 20 15:37	18°♒48'48	
	5853 Apr 27 09:57	30°♒♒		evening max el	5854 Mar 22 06:16	20°♒34'26	18°35'45
morning rise	5853 Apr 29 07:29	28°♒21'55		retrograde	5854 Mar 28 19:49	24°♒10'56	
direct	5853 May 06 03:28	25°♒44'21		evening set	5854 Mar 31 23:56	23°♒14'07	
desc. node	5853 May 08 17:35	26°♒04'44		inferior conj	5854 Apr 06 17:15	17°♒39'14	3°30'45
	5853 May 15 22:30	0°♓		minimum elong	5854 Apr 06 17:12	17°♒39'22	3°30'44
morning max el	5853 May 20 02:23	3°♓44'56	27°47'51	min. Earth dist.	5854 Apr 08 17:48	15°♒13'17	0.64971 AU
	5853 Jun 08 16:56	0°♑		morning rise	5854 Apr 12 09:49	11°♒25'24	
morning set	5853 Jun 23 12:16	26°♑47'44		direct	5854 Apr 19 01:55	8°♒36'44	
	5853 Jun 25 02:12	0°♒		desc. node	5854 Apr 25 14:35	10°♒46'35	



morning max el	5854 May 02 12:23	16° $\Upsilon$ 30'18	27°11'00	direct	5855 Apr 02 07:02	22° $\text{X}$ 03'51	
	5854 May 13 16:22	0° $\text{B}$		desc. node	5855 Apr 12 11:36	27° $\text{X}$ 15'49	
	5854 Jun 01 12:37	0° $\Pi$		morning max el	5855 Apr 14 22:15	29° $\text{X}$ 35'49	26°06'48
morning set	5854 Jun 07 01:18	10° $\Pi$ 20'49			5855 Apr 15 07:43	0° $\Upsilon$	
max. Earth dist.	5854 Jun 11 14:36	19° $\Pi$ 24'41	1.33700 AU		5855 May 07 13:25	0° $\text{B}$	
				morning set	5855 May 21 01:22	23° $\text{B}$ 12'38	
superior conj	5854 Jun 15 08:46	27° $\Pi$ 12'47	-0°12'55		5855 May 24 15:23	0° $\Pi$	
minimum elong	5854 Jun 15 09:27	27° $\Pi$ 16'22	0°12'47	max. Earth dist.	5855 May 24 23:16	0° $\Pi$ 38'04	1.35239 AU
behind sun begin	5854 Jun 15 06:04	26° $\Pi$ 58'32					
behind sun end	5854 Jun 15 12:50	27° $\Pi$ 34'12		superior conj	5855 May 30 04:33	11° $\Pi$ 00'56	-0°42'58
asc. node	5854 Jun 16 14:53	29° $\Pi$ 51'57		minimum elong	5855 May 30 06:57	11° $\Pi$ 13'10	0°42'31
	5854 Jun 16 16:24	0° $\text{B}$		asc. node	5855 Jun 03 11:54	19° $\Pi$ 53'07	
evening rise	5854 Jun 22 15:40	12° $\text{B}$ 41'22		evening rise	5855 Jun 06 23:31	27° $\Pi$ 06'07	
	5854 Jul 01 12:02	0° $\Omega$			5855 Jun 08 09:30	0° $\text{B}$	
evening max el	5854 Jul 13 06:24	16° $\Omega$ 14'48	21°52'49	evening max el	5855 Jun 25 08:33	27° $\text{B}$ 06'25	20°28'27
desc. node	5854 Jul 22 13:51	22° $\Omega$ 04'35			5855 Jun 28 20:17	0° $\Omega$	
retrograde	5854 Jul 25 21:18	22° $\Omega$ 30'22		retrograde	5855 Jul 06 09:50	2° $\Omega$ 31'51	
evening set	5854 Jul 28 14:37	22° $\Omega$ 13'45		evening set	5855 Jul 08 09:37	2° $\Omega$ 22'03	
inferior conj	5854 Aug 06 21:11	18° $\Omega$ 11'25	-4°10'11	desc. node	5855 Jul 09 10:52	2° $\Omega$ 09'18	
minimum elong	5854 Aug 06 12:15	18° $\Omega$ 23'57	4°07'55		5855 Jul 14 19:01	30° $\text{R}$ $\text{B}$	
min. Earth dist.	5854 Aug 06 10:17	18° $\Omega$ 26'42	0.54865 AU	inferior conj	5855 Jul 17 14:45	28° $\text{B}$ 24'53	-2°25'10
morning rise	5854 Aug 15 11:19	14° $\Omega$ 21'02		minimum elong	5855 Jul 17 08:03	28° $\text{B}$ 34'35	2°22'49
direct	5854 Aug 18 19:03	13° $\Omega$ 56'46		min. Earth dist.	5855 Jul 18 21:32	27° $\text{B}$ 40'17	0.54899 AU
morning max el	5854 Aug 30 21:09	19° $\Omega$ 37'00	21°46'00	morning rise	5855 Jul 26 05:37	24° $\text{B}$ 17'10	
	5854 Sep 08 08:25	0° $\text{B}$		direct	5855 Jul 30 04:51	23° $\text{B}$ 43'12	
asc. node	5854 Sep 12 14:08	6° $\text{B}$ 57'54			5855 Aug 12 08:29	0° $\Omega$	
morning set	5854 Sep 20 16:40	22° $\text{B}$ 47'50		morning max el	5855 Aug 12 13:32	0° $\Omega$ 11'46	23°28'25
	5854 Sep 24 02:38	0° $\text{B}$		asc. node	5855 Aug 30 11:10	26° $\Omega$ 06'29	
					5855 Sep 01 10:52	0° $\text{B}$	
superior conj	5854 Sep 27 21:50	8° $\text{B}$ 01'41	1°42'55	morning set	5855 Sep 05 04:04	7° $\text{B}$ 39'38	
minimum elong	5854 Sep 27 21:37	8° $\text{B}$ 00'29	1°42'55				
max. Earth dist.	5854 Oct 01 19:38	16° $\text{B}$ 04'58	1.34787 AU	superior conj	5855 Sep 12 03:52	22° $\text{B}$ 43'09	1°38'34
evening rise	5854 Oct 06 04:23	24° $\text{B}$ 41'04		minimum elong	5855 Sep 12 02:31	22° $\text{B}$ 35'55	1°38'29
	5854 Oct 09 00:12	0° $\text{B}$		max. Earth dist.	5855 Sep 14 16:59	28° $\text{B}$ 09'39	1.33419 AU
desc. node	5854 Oct 18 13:06	16° $\text{B}$ 27'36			5855 Sep 15 13:56	0° $\text{B}$	
	5854 Oct 27 13:13	0° $\text{B}$		evening rise	5855 Sep 19 18:02	8° $\text{B}$ 32'57	
evening max el	5854 Nov 10 08:27	16° $\text{B}$ 33'22	26°49'35		5855 Oct 01 11:15	0° $\text{B}$	
retrograde	5854 Nov 23 11:33	23° $\text{B}$ 50'37		desc. node	5855 Oct 05 10:08	6° $\text{B}$ 22'00	
evening set	5854 Nov 30 02:22	21° $\text{B}$ 12'24			5855 Oct 23 21:39	0° $\text{B}$	
min. Earth dist.	5854 Dec 04 02:45	17° $\text{B}$ 11'29	0.65818 AU	evening max el	5855 Oct 23 20:50	29° $\text{B}$ 58'03	27°21'54
inferior conj	5854 Dec 06 00:27	14° $\text{B}$ 58'17	-1°11'57	retrograde	5855 Nov 06 09:45	7° $\text{B}$ 16'23	
minimum elong	5854 Dec 06 02:29	14° $\text{B}$ 52'19	1°11'04	evening set	5855 Nov 13 09:47	4° $\text{B}$ 38'28	
asc. node	5854 Dec 09 13:21	11° $\text{B}$ 10'52		min. Earth dist.	5855 Nov 17 04:40	1° $\text{B}$ 11'20	0.64352 AU
morning rise	5854 Dec 12 03:33	9° $\text{B}$ 18'41			5855 Nov 18 07:46	30° $\text{R}$ $\text{B}$	
direct	5854 Dec 14 23:12	8° $\text{B}$ 34'53		inferior conj	5855 Nov 19 14:08	28° $\text{B}$ 38'46	-2°16'01
morning max el	5854 Dec 21 11:40	12° $\text{B}$ 05'33	18°16'42	minimum elong	5855 Nov 19 18:09	28° $\text{B}$ 28'03	2°14'25
	5855 Jan 03 05:57	0° $\text{B}$		morning rise	5855 Nov 26 03:55	23° $\text{B}$ 13'21	
morning set	5855 Jan 09 15:14	10° $\text{B}$ 17'53		asc. node	5855 Nov 26 10:24	23° $\text{B}$ 06'49	
desc. node	5855 Jan 14 12:19	18° $\text{B}$ 09'20		direct	5855 Nov 28 16:32	22° $\text{B}$ 40'48	
	5855 Jan 21 23:02	0° $\approx$		morning max el	5855 Dec 05 04:14	26° $\text{B}$ 05'32	17°54'15
					5855 Dec 08 12:22	0° $\text{B}$	
superior conj	5855 Jan 24 21:56	4° $\approx$ 39'05	-1°08'30	morning set	5855 Dec 22 06:34	21° $\text{B}$ 59'13	
minimum elong	5855 Jan 24 13:48	4° $\approx$ 07'10	1°07'30		5855 Dec 27 00:51	0° $\text{B}$	
max. Earth dist.	5855 Jan 26 16:42	7° $\approx$ 26'55	1.45357 AU	desc. node	5856 Jan 01 09:22	8° $\text{B}$ 51'03	
evening rise	5855 Feb 10 01:24	29° $\approx$ 54'07					
	5855 Feb 10 02:55	0° $\text{X}$		superior conj	5856 Jan 04 13:43	14° $\text{B}$ 00'55	-0°22'16
greatest brilliancy	5855 Feb 21 09:03	17° $\text{X}$ 30'23	-0.7m	minimum elong	5856 Jan 04 11:07	13° $\text{B}$ 50'23	0°21'52
	5855 Mar 02 01:55	0° $\Upsilon$		max. Earth dist.	5856 Jan 09 11:44	21° $\text{B}$ 52'06	1.44821 AU
evening max el	5855 Mar 05 14:52	4° $\Upsilon$ 06'43	19°16'48		5856 Jan 14 16:03	0° $\approx$	
asc. node	5855 Mar 07 12:37	5° $\Upsilon$ 52'09		evening rise	5856 Jan 20 14:58	9° $\approx$ 12'36	
retrograde	5855 Mar 12 16:06	8° $\Upsilon$ 07'21			5856 Feb 03 09:06	0° $\text{X}$	
evening set	5855 Mar 16 03:29	6° $\Upsilon$ 56'52		greatest brilliancy	5856 Feb 04 08:26	1° $\text{X}$ 25'34	-0.6m
inferior conj	5855 Mar 21 15:16	1° $\Upsilon$ 06'14	3°23'44	evening max el	5856 Feb 16 18:41	17° $\text{X}$ 41'47	20°13'16
minimum elong	5855 Mar 21 14:00	1° $\Upsilon$ 10'21	3°23'36	asc. node	5856 Feb 22 09:39	21° $\text{X}$ 50'07	
	5855 Mar 22 11:42	30° $\text{R}$ $\text{X}$		retrograde	5856 Feb 24 14:15	22° $\text{X}$ 15'30	
min. Earth dist.	5855 Mar 23 00:32	29° $\text{X}$ 18'40	0.66413 AU	evening set	5856 Feb 28 10:07	20° $\text{X}$ 50'30	
morning rise	5855 Mar 27 00:09	24° $\text{X}$ 50'44		inferior conj	5856 Mar 04 18:56	14° $\text{X}$ 46'12	3°04'38

minimum elong	5856 Mar 04 16:53	14° $\text{H}$ 53'09	3°04'15	min. Earth dist.	5857 Feb 17 08:06	28° $\approx$ 13'15	0.68008 AU
min. Earth dist.	5856 Mar 05 14:01	13° $\text{H}$ 41'31	0.67425 AU	morning rise	5857 Feb 22 04:53	22° $\approx$ 22'21	
morning rise	5856 Mar 09 23:25	8° $\text{H}$ 31'27		direct	5857 Feb 27 08:46	20° $\approx$ 07'16	
direct	5856 Mar 15 17:38	5° $\text{H}$ 57'00		morning max el	5857 Mar 09 16:11	26° $\approx$ 14'30	23°15'55
morning max el	5856 Mar 27 07:01	12° $\text{H}$ 51'54	24°45'03		5857 Mar 13 03:04	0° $\text{H}$	
desc. node	5856 Mar 29 08:37	15° $\text{H}$ 03'03		desc. node	5857 Mar 16 05:39	3° $\text{H}$ 45'36	
	5856 Apr 10 02:47	0° $\text{Y}$			5857 Apr 03 16:26	0° $\text{Y}$	
	5856 Apr 29 08:20	0° $\text{B}$		morning set	5857 Apr 13 13:59	15° $\text{Y}$ 57'14	
morning set	5856 May 02 07:34	5° $\text{B}$ 10'05		max. Earth dist.	5857 Apr 17 18:02	23° $\text{Y}$ 04'19	1.39386 AU
max. Earth dist.	5856 May 05 22:17	11° $\text{B}$ 40'15	1.37196 AU		5857 Apr 21 16:05	0° $\text{B}$	
superior conj	5856 May 12 13:57	24° $\text{B}$ 15'30	-1°12'59	superior conj	5857 Apr 25 09:01	6° $\text{B}$ 45'56	-1°40'19
minimum elong	5856 May 12 18:05	24° $\text{B}$ 35'37	1°12'20	minimum elong	5857 Apr 25 14:11	7° $\text{B}$ 09'55	1°39'44
	5856 May 15 11:57	0° $\text{II}$		evening rise	5857 May 04 20:23	24° $\text{B}$ 48'14	
asc. node	5856 May 20 08:57	9° $\text{II}$ 45'31		asc. node	5857 May 07 05:59	29° $\text{B}$ 24'10	
evening rise	5856 May 21 02:04	11° $\text{II}$ 11'09			5857 May 07 13:32	0° $\text{II}$	
	5856 May 31 06:42	0° $\text{E}$		evening max el	5857 May 21 00:51	20° $\text{II}$ 54'01	18°37'16
evening max el	5856 Jun 06 23:23	8° $\text{E}$ 40'10	19°22'37	retrograde	5857 May 28 22:29	24° $\text{II}$ 48'13	
retrograde	5856 Jun 16 07:06	13° $\text{E}$ 14'08		evening set	5857 May 31 02:32	24° $\text{II}$ 31'34	
evening set	5856 Jun 18 05:31	13° $\text{E}$ 03'12		inferior conj	5857 Jun 07 20:40	20° $\text{II}$ 05'40	1°14'32
desc. node	5856 Jun 25 07:53	9° $\text{E}$ 53'12		minimum elong	5857 Jun 07 23:14	20° $\text{II}$ 00'46	1°13'39
inferior conj	5856 Jun 26 19:36	8° $\text{E}$ 55'50	-0°26'46	min. Earth dist.	5857 Jun 11 04:35	17° $\text{II}$ 34'21	0.57601 AU
minimum elong	5856 Jun 26 18:25	8° $\text{E}$ 57'46	0°26'20	desc. node	5857 Jun 12 04:54	16° $\text{II}$ 51'29	
min. Earth dist.	5856 Jun 29 11:05	7° $\text{E}$ 12'49	0.55882 AU	morning rise	5857 Jun 15 16:36	14° $\text{II}$ 49'11	
morning rise	5856 Jul 05 04:33	4° $\text{E}$ 15'27		direct	5857 Jun 21 10:00	13° $\text{II}$ 27'13	
direct	5856 Jul 10 00:26	3° $\text{E}$ 22'30		morning max el	5857 Jul 05 19:07	21° $\text{II}$ 02'27	26°37'44
morning max el	5856 Jul 24 02:43	10° $\text{E}$ 30'10	25°11'08		5857 Jul 13 13:43	0° $\text{E}$	
	5856 Aug 07 21:03	0° $\text{O}$			5857 Jul 31 13:22	0° $\text{O}$	
asc. node	5856 Aug 16 08:14	15° $\text{O}$ 38'26		asc. node	5857 Aug 03 05:18	5° $\text{O}$ 27'08	
morning set	5856 Aug 19 15:44	22° $\text{O}$ 30'38		morning set	5857 Aug 04 02:03	7° $\text{O}$ 16'11	
	5856 Aug 23 02:59	0° $\text{P}$					
superior conj	5856 Aug 26 13:41	7° $\text{P}$ 33'48	1°28'32	superior conj	5857 Aug 11 01:19	22° $\text{O}$ 27'27	1°13'28
minimum elong	5856 Aug 26 11:38	7° $\text{P}$ 22'35	1°28'17	minimum elong	5857 Aug 10 23:02	22° $\text{O}$ 14'47	1°13'06
max. Earth dist.	5856 Aug 27 22:10	10° $\text{P}$ 31'29	1.32476 AU	max. Earth dist.	5857 Aug 11 08:10	23° $\text{O}$ 05'17	1.31961 AU
evening rise	5856 Sep 02 16:58	22° $\text{P}$ 50'07			5857 Aug 14 11:33	0° $\text{P}$	
	5856 Sep 06 06:35	0° $\text{A}$		evening rise	5857 Aug 17 22:21	7° $\text{P}$ 24'26	
desc. node	5856 Sep 21 07:09	25° $\text{A}$ 45'05			5857 Aug 29 17:57	0° $\text{A}$	
	5856 Sep 24 06:42	0° $\text{M}$		desc. node	5857 Sep 08 04:11	14° $\text{A}$ 24'18	
evening max el	5856 Oct 05 06:45	12° $\text{M}$ 54'41	27°25'10	evening max el	5857 Sep 17 11:20	25° $\text{A}$ 09'53	26°55'17
retrograde	5856 Oct 19 01:04	20° $\text{M}$ 09'06			5857 Sep 23 17:28	0° $\text{M}$	
evening set	5856 Oct 26 05:00	17° $\text{M}$ 41'14		retrograde	5857 Oct 01 08:41	2° $\text{M}$ 20'03	
min. Earth dist.	5856 Oct 29 20:31	14° $\text{M}$ 43'34	0.62574 AU	evening set	5857 Oct 08 07:57	0° $\text{M}$ 13'51	
inferior conj	5856 Nov 01 17:06	12° $\text{M}$ 01'00	-3°20'37		5857 Oct 08 17:08	30° $\text{R}$ $\text{A}$	
minimum elong	5856 Nov 01 22:55	11° $\text{M}$ 47'10	3°18'39	min. Earth dist.	5857 Oct 12 01:30	27° $\text{A}$ 35'33	0.60563 AU
morning rise	5856 Nov 08 18:35	6° $\text{M}$ 53'17		inferior conj	5857 Oct 15 06:00	24° $\text{A}$ 56'22	-4°20'17
direct	5856 Nov 11 02:52	6° $\text{M}$ 28'19		minimum elong	5857 Oct 15 12:32	24° $\text{A}$ 42'45	4°18'39
asc. node	5856 Nov 12 07:28	6° $\text{M}$ 34'56		morning rise	5857 Oct 22 19:10	20° $\text{A}$ 09'52	
morning max el	5856 Nov 17 20:52	9° $\text{M}$ 55'30	17°49'34	direct	5857 Oct 25 02:16	19° $\text{A}$ 49'25	
	5856 Dec 01 04:15	0° $\text{X}$		asc. node	5857 Oct 30 04:32	21° $\text{A}$ 35'16	
morning set	5856 Dec 03 20:53	4° $\text{X}$ 46'33		morning max el	5857 Nov 01 10:20	23° $\text{A}$ 27'33	18°03'47
					5857 Nov 06 15:33	0° $\text{M}$	
superior conj	5856 Dec 15 06:08	24° $\text{X}$ 35'15	0°21'22	morning set	5857 Nov 17 03:50	18° $\text{M}$ 21'06	
minimum elong	5856 Dec 15 08:10	24° $\text{X}$ 43'46	0°21'06		5857 Nov 23 10:55	0° $\text{X}$	
desc. node	5856 Dec 18 06:23	29° $\text{X}$ 36'57		superior conj	5857 Nov 27 00:25	6° $\text{X}$ 25'05	0°56'17
	5856 Dec 18 11:58	0° $\text{Z}$		minimum elong	5857 Nov 27 04:11	6° $\text{X}$ 41'49	0°55'48
max. Earth dist.	5856 Dec 22 04:20	6° $\text{Z}$ 01'02	1.43613 AU	max. Earth dist.	5857 Dec 04 16:07	19° $\text{X}$ 36'55	1.41872 AU
evening rise	5856 Dec 30 02:31	18° $\text{Z}$ 33'22		desc. node	5857 Dec 05 03:25	20° $\text{X}$ 24'03	
	5857 Jan 06 14:37	0° $\approx$		evening rise	5857 Dec 10 03:06	28° $\text{X}$ 32'48	
	5857 Jan 28 11:35	0° $\text{H}$			5857 Dec 11 00:56	0° $\text{Z}$	
evening max el	5857 Jan 29 16:59	1° $\text{H}$ 17'38	21°22'16		5857 Dec 31 06:04	0° $\approx$	
retrograde	5857 Feb 07 12:11	6° $\text{H}$ 30'27		evening max el	5858 Jan 12 10:18	14° $\approx$ 55'26	22°39'28
asc. node	5857 Feb 08 06:43	6° $\text{H}$ 27'17		retrograde	5858 Jan 22 08:15	20° $\approx$ 48'50	
evening set	5857 Feb 11 17:57	4° $\text{H}$ 50'13		asc. node	5858 Jan 26 03:45	19° $\approx$ 33'43	
	5857 Feb 16 01:07	30° $\text{R}$ $\approx$		evening set	5858 Jan 27 01:21	18° $\approx$ 53'06	
inferior conj	5857 Feb 17 01:52	28° $\approx$ 34'50	2°35'36	inferior conj	5858 Feb 01 10:05	12° $\approx$ 29'55	1°58'06
minimum elong	5857 Feb 16 23:30	28° $\approx$ 43'02	2°34'59	minimum elong	5858 Feb 01 07:52	12° $\approx$ 37'37	1°57'22

min. Earth dist.	5858 Feb 01 04:35	12° $\approx$ 49'02	0.68190 AU	inferior conj	5859 Jan 16 17:43	26° $\approx$ 28'21	1°13'03
morning rise	5858 Feb 06 14:17	6° $\approx$ 21'02		minimum elong	5859 Jan 16 16:07	26° $\approx$ 33'48	1°12'26
direct	5858 Feb 11 03:38	4° $\approx$ 28'25		morning rise	5859 Jan 22 01:31	20° $\approx$ 24'40	
morning max el	5858 Feb 20 05:00	9° $\approx$ 45'44	21°48'42	direct	5859 Jan 26 01:09	18° $\approx$ 34'35	
desc. node	5858 Mar 03 02:41	23° $\approx$ 08'14		morning max el	5859 Feb 03 00:28	23° $\approx$ 27'51	20°30'40
	5858 Mar 07 23:33	0° $\approx$			5859 Feb 08 15:34	0° $\approx$	
morning set	5858 Mar 24 16:13	25° $\approx$ 24'38		desc. node	5859 Feb 17 23:42	12° $\approx$ 59'46	
	5858 Mar 27 12:27	0° $\approx$			5859 Mar 01 07:13	0° $\approx$	
max. Earth dist.	5858 Mar 30 17:05	5° $\approx$ 15'19	1.41543 AU	morning set	5859 Mar 03 18:23	3° $\approx$ 48'26	
				max. Earth dist.	5859 Mar 12 23:02	18° $\approx$ 20'02	1.43392 AU
superior conj	5858 Apr 07 08:57	18° $\approx$ 21'00	-2°01'01				
minimum elong	5858 Apr 07 13:17	18° $\approx$ 40'01	2°00'45	superior conj	5859 Mar 19 09:13	28° $\approx$ 51'20	-2°09'44
	5858 Apr 13 20:56	0° $\approx$		minimum elong	5859 Mar 19 09:27	28° $\approx$ 52'18	2°09'44
evening rise	5858 Apr 18 02:51	7° $\approx$ 48'19			5859 Mar 20 01:40	0° $\approx$	
asc. node	5858 Apr 24 03:01	18° $\approx$ 43'41		evening rise	5859 Mar 31 17:07	20° $\approx$ 01'47	
	5858 May 01 05:50	0° $\approx$			5859 Apr 06 09:58	0° $\approx$	
evening max el	5858 May 04 09:30	3° $\approx$ 39'45	18°12'13	asc. node	5859 Apr 11 00:02	7° $\approx$ 37'35	
retrograde	5858 May 11 08:32	7° $\approx$ 09'57		evening max el	5859 Apr 17 21:51	16° $\approx$ 48'20	18°06'42
evening set	5858 May 13 19:37	6° $\approx$ 44'20		retrograde	5859 Apr 24 09:28	20° $\approx$ 09'58	
inferior conj	5858 May 20 19:11	1° $\approx$ 58'04	2°26'04	evening set	5859 Apr 27 03:21	19° $\approx$ 33'07	
minimum elong	5858 May 20 22:33	1° $\approx$ 50'34	2°25'11	inferior conj	5859 May 03 12:05	14° $\approx$ 27'05	3°08'44
	5858 May 22 23:57	30° $\approx$ 8'8		minimum elong	5859 May 03 14:28	14° $\approx$ 21'01	3°08'19
min. Earth dist.	5858 May 24 04:17	28° $\approx$ 58'44	0.59733 AU	min. Earth dist.	5859 May 06 12:00	11° $\approx$ 24'37	0.61943 AU
morning rise	5858 May 27 22:43	26° $\approx$ 13'22		morning rise	5859 May 09 23:48	8° $\approx$ 25'07	
desc. node	5858 May 30 01:55	25° $\approx$ 09'14		direct	5859 May 16 18:50	5° $\approx$ 59'21	
direct	5858 Jun 03 08:59	24° $\approx$ 17'19		desc. node	5859 May 16 22:56	5° $\approx$ 59'26	
	5858 Jun 15 09:47	0° $\approx$		morning max el	5859 May 30 22:31	14° $\approx$ 00'02	27°53'36
morning max el	5858 Jun 17 17:48	2° $\approx$ 10'01	27°34'14		5859 Jun 12 19:23	0° $\approx$	
	5858 Jul 07 22:32	0° $\approx$			5859 Jun 30 09:57	0° $\approx$	
morning set	5858 Jul 19 09:16	21° $\approx$ 50'17		morning set	5859 Jul 03 11:26	6° $\approx$ 07'07	
asc. node	5858 Jul 21 02:18	25° $\approx$ 26'34		asc. node	5859 Jul 07 23:19	15° $\approx$ 32'17	
	5858 Jul 23 05:08	0° $\approx$		max. Earth dist.	5859 Jul 09 03:19	18° $\approx$ 03'04	1.32229 AU
max. Earth dist.	5858 Jul 25 19:08	5° $\approx$ 39'37	1.31876 AU				
superior conj	5858 Jul 26 12:55	7° $\approx$ 17'46	0°53'57	superior conj	5859 Jul 10 22:45	21° $\approx$ 59'19	0°30'29
minimum elong	5858 Jul 26 10:51	7° $\approx$ 06'23	0°53'33	minimum elong	5859 Jul 10 21:24	21° $\approx$ 51'55	0°30'11
evening rise	5858 Aug 02 07:46	22° $\approx$ 08'02			5859 Jul 14 14:33	0° $\approx$	
	5858 Aug 06 02:46	0° $\approx$		evening rise	5859 Jul 17 19:15	6° $\approx$ 54'55	
	5858 Aug 24 09:04	0° $\approx$			5859 Jul 29 20:04	0° $\approx$	
desc. node	5858 Aug 26 01:12	2° $\approx$ 01'15		evening max el	5859 Aug 11 22:32	17° $\approx$ 16'13	24°25'21
evening max el	5858 Aug 30 08:20	6° $\approx$ 35'03	25°52'47	desc. node	5859 Aug 12 22:12	18° $\approx$ 11'20	
retrograde	5858 Sep 13 07:20	13° $\approx$ 41'22		retrograde	5859 Aug 25 18:37	24° $\approx$ 14'04	
evening set	5858 Sep 19 13:36	12° $\approx$ 08'07		evening set	5859 Aug 30 18:39	23° $\approx$ 18'22	
min. Earth dist.	5858 Sep 23 20:48	9° $\approx$ 32'28	0.58487 AU	min. Earth dist.	5859 Sep 05 09:35	20° $\approx$ 26'34	0.56621 AU
inferior conj	5858 Sep 27 01:14	7° $\approx$ 14'11	-5°05'35	inferior conj	5859 Sep 08 00:24	18° $\approx$ 47'15	-5°21'41
minimum elong	5858 Sep 27 05:57	7° $\approx$ 05'37	5°04'58	minimum elong	5859 Sep 07 23:46	18° $\approx$ 48'15	5°21'40
morning rise	5858 Oct 05 00:36	2° $\approx$ 50'45		morning rise	5859 Sep 16 07:15	14° $\approx$ 44'47	
direct	5858 Oct 07 10:06	2° $\approx$ 32'10		direct	5859 Sep 18 23:06	14° $\approx$ 25'42	
morning max el	5858 Oct 15 17:06	6° $\approx$ 31'03	18°38'19	morning max el	5859 Sep 28 13:49	18° $\approx$ 56'13	19°34'33
asc. node	5858 Oct 17 01:35	7° $\approx$ 54'42		asc. node	5859 Oct 03 22:36	25° $\approx$ 18'20	
	5858 Oct 30 15:52	0° $\approx$			5859 Oct 06 23:50	0° $\approx$	
morning set	5858 Oct 31 22:17	2° $\approx$ 27'15		morning set	5859 Oct 16 00:37	16° $\approx$ 55'06	
					5859 Oct 22 12:30	0° $\approx$	
superior conj	5858 Nov 09 15:55	19° $\approx$ 15'49	1°20'58	superior conj	5859 Oct 23 23:20	2° $\approx$ 52'29	1°35'57
minimum elong	5858 Nov 09 19:19	19° $\approx$ 31'46	1°20'38	minimum elong	5859 Oct 24 01:25	3° $\approx$ 02'45	1°35'50
	5858 Nov 15 13:02	0° $\approx$		max. Earth dist.	5859 Oct 30 03:25	14° $\approx$ 40'31	1.37700 AU
max. Earth dist.	5858 Nov 16 22:36	2° $\approx$ 27'55	1.39814 AU	evening rise	5859 Nov 02 21:26	21° $\approx$ 28'18	
evening rise	5858 Nov 21 01:04	9° $\approx$ 30'14			5859 Nov 07 20:12	0° $\approx$	
desc. node	5858 Nov 22 00:27	11° $\approx$ 08'05		desc. node	5859 Nov 08 21:28	1° $\approx$ 45'10	
	5858 Dec 03 23:40	0° $\approx$			5859 Nov 27 22:18	0° $\approx$	
evening max el	5858 Dec 26 00:18	28° $\approx$ 36'22	23°59'30	evening max el	5859 Dec 08 13:08	12° $\approx$ 20'51	25°15'38
	5858 Dec 27 11:13	0° $\approx$		retrograde	5859 Dec 20 13:32	19° $\approx$ 31'04	
retrograde	5859 Jan 06 01:05	5° $\approx$ 05'57		evening set	5859 Dec 26 08:31	16° $\approx$ 52'50	
evening set	5859 Jan 11 06:45	2° $\approx$ 55'12		asc. node	5859 Dec 30 21:49	11° $\approx$ 48'44	
asc. node	5859 Jan 13 00:47	1° $\approx$ 11'58		min. Earth dist.	5859 Dec 30 19:24	11° $\approx$ 56'32	0.67423 AU
	5859 Jan 14 01:24	30° $\approx$ 8'8		inferior conj	5859 Dec 31 22:58	10° $\approx$ 27'02	0°21'12
min. Earth dist.	5859 Jan 16 01:08	27° $\approx$ 24'37	0.67988 AU	minimum elong	5859 Dec 31 22:26	10° $\approx$ 28'45	0°21'00

morning rise	5860 Jan 06 12:37	4°  30'39		evening set	5860 Dec 09 04:55	0°  42'17	
direct	5860 Jan 10 00:00	3°  21'04			5860 Dec 10 00:16	30°  R 	
morning max el	5860 Jan 17 03:52	7°  20'53	19°26'10	min. Earth dist.	5860 Dec 13 09:02	26°  21'11	0.66503 AU
greatest brilliancy	5860 Jan 30 06:23	24°  43'50	-0.7m	inferior conj	5860 Dec 14 23:55	24°  22'38	-0°36'31
	5860 Feb 02 18:18	0° 		minimum elong	5860 Dec 15 00:55	24°  19'36	0°36'03
desc. node	5860 Feb 04 20:44	3°  12'11		asc. node	5860 Dec 16 18:51	22°  15'07	
morning set	5860 Feb 10 16:15	12°  08'31		morning rise	5860 Dec 20 21:34	18°  13'07	
	5860 Feb 22 03:13	0° 		direct	5860 Dec 23 22:28	17°  14'53	
max. Earth dist.	5860 Feb 23 12:17	2°  10'28	1.44707 AU	morning max el	5860 Dec 30 14:19	21°  14'49	18°37'24
					5861 Jan 06 11:20	0° 	
superior conj	5860 Feb 27 08:20	8°  16'10	-2°00'52	morning set	5861 Jan 20 10:00	21°  34'14	
minimum elong	5860 Feb 27 02:05	7°  51'11	2°00'33	desc. node	5861 Jan 21 17:45	23°  39'42	
	5860 Mar 11 15:36	0° 			5861 Jan 25 18:12	0° 	
evening rise	5860 Mar 12 10:47	1°  19'59					
asc. node	5860 Mar 27 21:03	25°  57'08		superior conj	5861 Feb 05 13:57	16°  59'19	-1°32'12
	5860 Mar 31 06:28	0° 		minimum elong	5861 Feb 05 04:27	16°  22'04	1°31'14
evening max el	5860 Mar 31 10:45	0°  10'49	18°19'56	max. Earth dist.	5861 Feb 05 06:34	16°  30'22	1.45335 AU
retrograde	5860 Apr 06 20:55	3°  37'54			5861 Feb 13 20:31	0° 	
evening set	5860 Apr 09 21:19	2°  48'31		evening rise	5861 Feb 21 05:15	11°  14'33	
	5860 Apr 13 09:56	30°  R 		greatest brilliancy	5861 Mar 01 11:36	24°  15'20'5	-0.8m
inferior conj	5860 Apr 15 19:13	27°  09'23'44	3°28'02		5861 Mar 04 18:21	0° 	
minimum elong	5860 Apr 15 20:02	27°  09'21'24	3°27'57	asc. node	5861 Mar 14 18:05	13°  09'32'19	
min. Earth dist.	5860 Apr 18 04:44	24°  09'40'06	0.63969 AU	evening max el	5861 Mar 14 21:34	13°  09'41'13	18°51'06
morning rise	5860 Apr 21 17:49	21°  09'12'52		retrograde	5861 Mar 21 14:58	17°  09'26'23	
direct	5860 Apr 28 13:10	18°  09'28'46		evening set	5861 Mar 24 22:11	16°  09'23'38	
desc. node	5860 May 02 19:58	19°  09'24'50		inferior conj	5861 Mar 30 12:47	10°  09'41'43	3°29'24
morning max el	5860 May 12 07:09	26°  09'27'28	27°35'56	minimum elong	5861 Mar 30 12:10	10°  09'43'37	3°29'22
	5860 May 15 14:14	0° 		min. Earth dist.	5861 Apr 01 06:39	8°  09'31'32	0.65645 AU
	5860 Jun 05 09:48	0° 		morning rise	5861 Apr 05 01:42	4°  09'27'02	
morning set	5860 Jun 16 06:05	19°  09'58'18		direct	5861 Apr 11 14:26	1°  09'37'54	
max. Earth dist.	5860 Jun 21 04:48	0°  09'03'17	1.33036 AU	desc. node	5861 Apr 19 17:01	4°  09'56'58	
	5860 Jun 21 04:11	0° 		morning max el	5861 Apr 24 17:19	9°  09'23'06	26°46'27
asc. node	5860 Jun 23 20:20	5°  09'39'18			5861 May 10 21:29	0° 	
					5861 May 28 20:42	0° 	
superior conj	5860 Jun 24 04:55	6°  09'25'15	0°03'43	morning set	5861 May 30 14:07	3°  09'15'11	
minimum elong	5860 Jun 24 04:44	6°  09'24'15	0°03'39	max. Earth dist.	5861 Jun 03 20:26	11°  09'34'35	1.34311 AU
behind sun begin	5860 Jun 23 23:28	5°  09'56'06					
behind sun end	5860 Jun 24 10:00	6°  09'52'27		superior conj	5861 Jun 08 05:15	20°  09'29'23	-0°25'31
evening rise	5860 Jul 01 06:51	21°  09'38'06		minimum elong	5861 Jun 08 06:38	20°  09'36'35	0°25'16
	5860 Jul 05 08:06	0° 		asc. node	5861 Jun 10 17:21	25°  09'43'54	
evening max el	5860 Jul 23 11:12	27°  09'35'43	22°47'24		5861 Jun 12 17:55	0° 	
	5860 Jul 26 04:42	0° 		evening rise	5861 Jun 15 16:42	6°  09'11'49	
desc. node	5860 Jul 29 19:12	2°  09'22'20			5861 Jun 28 16:02	0° 	
retrograde	5860 Aug 05 16:57	4°  09'11'44		evening max el	5861 Jul 05 06:32	8°  09'07'24	21°14'44
evening set	5860 Aug 09 04:30	3°  09'45'14		desc. node	5861 Jul 16 16:14	14°  09'02'02	
min. Earth dist.	5860 Aug 16 19:20	0°  09'22'26	0.55285 AU	retrograde	5861 Jul 17 06:24	14°  09'02'52	
	5860 Aug 17 11:03	30°  R 		evening set	5861 Jul 19 14:11	13°  09'50'20	
inferior conj	5860 Aug 18 04:41	29°  09'34'42	-4°51'38	inferior conj	5861 Jul 28 22:10	9°  09'51'55	-3°29'27
minimum elong	5860 Aug 17 21:34	29°  09'44'55	4°50'25	minimum elong	5861 Jul 28 13:24	10°  09'04'12	3°26'48
morning rise	5860 Aug 26 16:41	25°  09'44'43		min. Earth dist.	5861 Jul 29 05:10	9°  09'42'05	0.54766 AU
direct	5860 Aug 29 18:09	25°  09'22'58		morning rise	5861 Aug 06 13:17	5°  09'57'03	
	5860 Sep 09 06:35	0° 		direct	5861 Aug 10 03:05	5°  09'29'34	
morning max el	5860 Sep 09 22:14	0°  09'35'22	20°52'36	morning max el	5861 Aug 22 19:19	11°  09'30'06	22°28'42
asc. node	5860 Sep 19 19:37	13°  09'31'52			5861 Sep 05 08:51	0° 	
	5860 Sep 28 13:11	0° 		asc. node	5861 Sep 06 16:39	2°  09'23'20	
morning set	5860 Sep 29 08:06	1°  09'37'13		morning set	5861 Sep 13 18:35	16°  09'27'15	
					5861 Sep 20 03:05	0° 	
superior conj	5860 Oct 06 18:11	17°  09'02'24	1°42'30	superior conj	5861 Sep 20 20:57	1°  09'35'01	1°41'49
minimum elong	5860 Oct 06 18:46	17°  09'05'20	1°42'29	minimum elong	5861 Sep 20 20:13	1°  09'31'02	1°41'48
max. Earth dist.	5860 Oct 11 12:08	26°  09'34'59	1.35757 AU	max. Earth dist.	5861 Sep 24 04:35	8°  09'32'12	1.34150 AU
	5860 Oct 13 06:22	0° 		evening rise	5861 Sep 28 19:48	17°  09'51'23	
evening rise	5860 Oct 15 13:04	4°  09'19'00			5861 Oct 05 07:59	0° 	
desc. node	5860 Oct 25 18:29	22°  09'10'47		desc. node	5861 Oct 12 15:30	12°  09'18'45	
	5860 Oct 30 17:27	0° 			5861 Oct 25 00:05	0° 	
evening max el	5860 Nov 20 02:03	26°  09'04'57	26°20'28	evening max el	5861 Nov 02 14:49	9°  09'39'21	27°06'35
	5860 Nov 24 16:15	0° 		retrograde	5861 Nov 15 22:24	16°  09'57'31	
retrograde	5860 Dec 02 20:48	3°  09'16'49					

evening set	5861 Nov 22 17:48	14° $\text{♊}$ 18'13		retrograde	5862 Oct 29 17:52	0° $\text{♊}$ 10'50	
min. Earth dist.	5861 Nov 26 15:39	10° $\text{♊}$ 32'16	0.65233 AU		5862 Oct 31 15:31	30° $\text{♋}$	
inferior conj	5861 Nov 28 18:25	8° $\text{♊}$ 09'53	-1°38'52	evening set	5862 Nov 05 20:29	27° $\text{♌}$ 35'27	
minimum elong	5861 Nov 28 21:18	8° $\text{♊}$ 01'48	1°37'38	min. Earth dist.	5862 Nov 09 13:22	24° $\text{♌}$ 21'57	0.63629 AU
asc. node	5861 Dec 03 15:55	3° $\text{♊}$ 26'10		inferior conj	5862 Nov 12 03:54	21° $\text{♌}$ 43'25	-2°43'38
morning rise	5861 Dec 05 01:54	2° $\text{♊}$ 36'08		minimum elong	5862 Nov 12 08:45	21° $\text{♌}$ 31'06	2°41'48
direct	5861 Dec 07 18:21	1° $\text{♊}$ 57'31		morning rise	5862 Nov 18 22:38	16° $\text{♌}$ 25'27	
morning max el	5861 Dec 14 05:30	5° $\text{♊}$ 24'14	18°05'09	asc. node	5862 Nov 20 12:58	16° $\text{♌}$ 00'05	
	5861 Dec 30 21:12	0° $\text{♋}$		direct	5862 Nov 21 08:59	15° $\text{♌}$ 56'38	
morning set	5862 Jan 01 09:10	2° $\text{♋}$ 28'07		morning max el	5862 Nov 27 22:33	19° $\text{♌}$ 21'22	17°50'05
desc. node	5862 Jan 08 14:46	14° $\text{♋}$ 17'09			5862 Dec 05 19:21	0° $\text{♊}$	
				morning set	5862 Dec 14 11:02	14° $\text{♊}$ 39'27	
superior conj	5862 Jan 15 20:20	25° $\text{♋}$ 51'26	-0°49'12		5862 Dec 23 11:08	0° $\text{♋}$	
minimum elong	5862 Jan 15 14:20	25° $\text{♋}$ 27'41	0°48'22	desc. node	5862 Dec 26 11:48	5° $\text{♋}$ 01'00	
	5862 Jan 18 11:19	0° $\text{♌}$					
max. Earth dist.	5862 Jan 19 02:19	0° $\text{♌}$ 59'00	1.45215 AU	superior conj	5862 Dec 26 21:50	5° $\text{♋}$ 42'12	-0°02'59
evening rise	5862 Feb 01 02:43	21° $\text{♌}$ 15'25		minimum elong	5862 Dec 26 21:31	5° $\text{♋}$ 40'54	0°02'55
	5862 Feb 06 18:38	0° $\text{♍}$		behind sun begin	5862 Dec 26 11:57	5° $\text{♋}$ 01'38	
greatest brilliancy	5862 Feb 14 07:14	11° $\text{♍}$ 26'55	-0.7m	behind sun end	5862 Dec 27 07:04	6° $\text{♋}$ 20'05	
evening max el	5862 Feb 26 04:14	27° $\text{♍}$ 14'36	19°39'00	max. Earth dist.	5863 Jan 01 20:13	15° $\text{♋}$ 17'38	1.44377 AU
	5862 Mar 01 09:10	0° $\text{♎}$			5863 Jan 11 05:45	0° $\text{♌}$	
asc. node	5862 Mar 01 15:09	0° $\text{♎}$ 09'49		evening rise	5863 Jan 11 13:20	0° $\text{♌}$ 29'10	
retrograde	5862 Mar 05 12:30	1° $\text{♎}$ 28'32			5863 Jan 31 11:49	0° $\text{♍}$	
evening set	5862 Mar 09 03:21	0° $\text{♎}$ 11'51		evening max el	5863 Feb 09 05:35	10° $\text{♍}$ 49'11	20°41'19
	5862 Mar 09 09:50	30° $\text{♋}$		asc. node	5863 Feb 16 12:13	15° $\text{♍}$ 34'54	
inferior conj	5862 Mar 14 13:33	24° $\text{♍}$ 14'50	3°16'57	retrograde	5863 Feb 17 10:53	15° $\text{♍}$ 39'39	
minimum elong	5862 Mar 14 11:53	24° $\text{♍}$ 20'19	3°16'44	evening set	5863 Feb 21 10:42	14° $\text{♍}$ 08'21	
min. Earth dist.	5862 Mar 15 16:32	22° $\text{♍}$ 45'30	0.66895 AU	inferior conj	5863 Feb 26 18:53	7° $\text{♍}$ 58'48	2°53'27
morning rise	5862 Mar 19 20:11	17° $\text{♍}$ 59'21		minimum elong	5863 Feb 26 16:38	8° $\text{♍}$ 06'30	2°52'57
direct	5862 Mar 25 21:50	15° $\text{♍}$ 17'00		min. Earth dist.	5863 Feb 27 08:21	7° $\text{♍}$ 12'32	0.67717 AU
desc. node	5862 Apr 06 14:02	22° $\text{♍}$ 02'36		morning rise	5863 Mar 03 22:22	1° $\text{♍}$ 44'35	
morning max el	5862 Apr 07 03:00	22° $\text{♍}$ 35'00	25°33'38		5863 Mar 06 10:33	30° $\text{♋}$	
	5862 Apr 13 15:34	0° $\text{♎}$		direct	5863 Mar 09 10:30	29° $\text{♌}$ 17'44	
	5862 May 04 04:44	0° $\text{♏}$			5863 Mar 12 15:57	0° $\text{♍}$	
morning set	5862 May 13 07:20	15° $\text{♏}$ 46'18		morning max el	5863 Mar 20 11:44	5° $\text{♍}$ 54'07	24°07'27
max. Earth dist.	5862 May 17 00:57	22° $\text{♏}$ 42'06	1.36033 AU	desc. node	5863 Mar 24 11:04	10° $\text{♍}$ 15'26	
	5862 May 20 19:43	0° $\text{♐}$			5863 Apr 08 03:15	0° $\text{♎}$	
				morning set	5863 Apr 25 04:14	27° $\text{♎}$ 16'09	
superior conj	5862 May 22 21:04	4° $\text{♐}$ 04'37	-0°55'49		5863 Apr 26 17:52	0° $\text{♏}$	
minimum elong	5862 May 23 00:14	4° $\text{♐}$ 20'27	0°55'16	max. Earth dist.	5863 Apr 28 21:20	3° $\text{♏}$ 48'01	1.38106 AU
asc. node	5862 May 28 14:24	15° $\text{♐}$ 42'13					
evening rise	5862 May 30 22:41	20° $\text{♐}$ 29'44		superior conj	5863 May 06 00:55	17° $\text{♏}$ 01'39	-1°25'06
	5862 Jun 04 17:41	0° $\text{♑}$		minimum elong	5863 May 06 05:37	17° $\text{♏}$ 24'09	1°24'27
evening max el	5862 Jun 17 14:06	19° $\text{♑}$ 16'41	19°57'53		5863 May 12 16:40	0° $\text{♐}$	
retrograde	5862 Jun 27 21:39	24° $\text{♑}$ 20'04		evening rise	5863 May 14 22:09	4° $\text{♐}$ 23'56	
evening set	5862 Jun 29 19:13	24° $\text{♑}$ 10'31		asc. node	5863 May 15 11:27	5° $\text{♐}$ 29'24	
desc. node	5862 Jul 03 13:16	23° $\text{♑}$ 01'18			5863 May 30 07:21	0° $\text{♑}$	
inferior conj	5862 Jul 08 19:06	20° $\text{♑}$ 10'15	-1°34'28	evening max el	5863 May 31 09:54	1° $\text{♑}$ 08'49	19°00'51
minimum elong	5862 Jul 08 14:42	20° $\text{♑}$ 16'54	1°32'51	retrograde	5863 Jun 09 02:02	5° $\text{♑}$ 24'02	
min. Earth dist.	5862 Jul 10 17:20	19° $\text{♑}$ 00'21	0.55207 AU	evening set	5863 Jun 11 02:15	5° $\text{♑}$ 11'16	
morning rise	5862 Jul 17 08:23	15° $\text{♑}$ 49'47		inferior conj	5863 Jun 19 08:02	0° $\text{♑}$ 56'57	0°19'25
direct	5862 Jul 21 15:36	15° $\text{♑}$ 09'19		minimum elong	5863 Jun 19 08:49	0° $\text{♑}$ 55'35	0°19'06
morning max el	5862 Aug 04 09:48	21° $\text{♑}$ 56'04	24°13'06	desc. node	5863 Jun 20 10:18	0° $\text{♑}$ 11'01	
	5862 Aug 11 11:27	0° $\text{♒}$			5863 Jun 20 16:37	30° $\text{♋}$	
asc. node	5862 Aug 24 13:42	21° $\text{♒}$ 43'12		min. Earth dist.	5863 Jun 22 08:45	28° $\text{♐}$ 51'11	0.56538 AU
	5862 Aug 28 15:10	0° $\text{♓}$		morning rise	5863 Jun 27 12:05	26° $\text{♐}$ 00'27	
morning set	5862 Aug 29 06:20	1° $\text{♓}$ 20'08		direct	5863 Jul 02 17:21	24° $\text{♐}$ 56'01	
					5863 Jul 14 10:01	0° $\text{♑}$	
superior conj	5862 Sep 05 04:56	16° $\text{♓}$ 22'06	1°34'58	morning max el	5863 Jul 16 23:50	2° $\text{♑}$ 17'44	25°50'46
minimum elong	5862 Sep 05 03:14	16° $\text{♓}$ 12'53	1°34'49		5863 Aug 05 14:21	0° $\text{♒}$	
max. Earth dist.	5862 Sep 07 05:32	20° $\text{♓}$ 44'41	1.32959 AU	asc. node	5863 Aug 11 10:44	11° $\text{♒}$ 22'56	
	5862 Sep 11 15:09	0° $\text{♓}$		morning set	5863 Aug 13 17:38	16° $\text{♒}$ 09'31	
evening rise	5862 Sep 12 13:50	1° $\text{♓}$ 55'37			5863 Aug 20 02:08	0° $\text{♓}$	
	5862 Sep 28 05:03	0° $\text{♌}$					
desc. node	5862 Sep 29 12:32	2° $\text{♌}$ 01'33		superior conj	5863 Aug 20 15:47	1° $\text{♓}$ 15'10	1°22'43
evening max el	5862 Oct 16 02:13	22° $\text{♌}$ 53'07	27°27'05	minimum elong	5863 Aug 20 13:34	1° $\text{♓}$ 03'00	1°22'25
	5862 Oct 27 19:03	0° $\text{♊}$		max. Earth dist.	5863 Aug 21 12:57	3° $\text{♓}$ 11'43	1.32203 AU

evening rise	5863 Aug 27 15:51	16° $\mathbb{M}$ 21'15	evening rise	5864 Aug 10 23:14	1° $\mathbb{M}$ 00'31
	5863 Sep 03 13:36	0° $\mathbb{A}$		5864 Aug 26 15:51	0° $\mathbb{A}$
desc. node	5863 Sep 16 09:33	21° $\mathbb{A}$ 07'48	desc. node	5864 Sep 02 06:34	9° $\mathbb{A}$ 22'52
	5863 Sep 23 04:44	0° $\mathbb{M}$	evening max el	5864 Sep 09 11:52	17° $\mathbb{A}$ 28'14 26°32'23
evening max el	5863 Sep 28 10:06	5° $\mathbb{M}$ 33'13 27°16'34	retrograde	5864 Sep 23 10:14	24° $\mathbb{A}$ 36'05
retrograde	5863 Oct 12 06:21	12° $\mathbb{M}$ 46'26	evening set	5864 Sep 30 03:45	22° $\mathbb{A}$ 43'10
evening set	5863 Oct 19 09:20	10° $\mathbb{M}$ 26'23	min. Earth dist.	5864 Oct 04 01:32	20° $\mathbb{A}$ 07'58 0.59678 AU
min. Earth dist.	5863 Oct 23 00:44	7° $\mathbb{M}$ 38'20 0.61736 AU	inferior conj	5864 Oct 07 07:04	17° $\mathbb{A}$ 35'45 -4°42'01
inferior conj	5863 Oct 26 01:17	4° $\mathbb{M}$ 55'09 -3°47'00	minimum elong	5864 Oct 07 13:13	17° $\mathbb{A}$ 23'38 4°40'47
minimum elong	5863 Oct 26 07:36	4° $\mathbb{M}$ 40'54 3°45'05	morning rise	5864 Oct 15 00:49	12° $\mathbb{A}$ 58'33
morning rise	5863 Nov 02 07:51	29° $\mathbb{A}$ 56'06	direct	5864 Oct 17 08:27	12° $\mathbb{A}$ 39'10
	5863 Nov 02 03:11	30° $\mathbb{R}$ $\mathbb{A}$	asc. node	5864 Oct 24 07:03	15° $\mathbb{A}$ 43'14
direct	5863 Nov 04 15:03	29° $\mathbb{A}$ 33'32	morning max el	5864 Oct 25 01:11	16° $\mathbb{A}$ 25'08 18°15'49
asc. node	5863 Nov 07 10:01	0° $\mathbb{M}$ 07'57		5864 Nov 03 14:24	0° $\mathbb{M}$
	5863 Nov 07 01:47	0° $\mathbb{M}$	morning set	5864 Nov 09 21:28	11° $\mathbb{M}$ 37'57
morning max el	5863 Nov 11 14:15	3° $\mathbb{M}$ 04'41 17°53'11	superior conj	5864 Nov 19 05:26	29° $\mathbb{M}$ 06'13 1°08'01
morning set	5863 Nov 27 09:06	27° $\mathbb{M}$ 48'34	minimum elong	5864 Nov 19 09:14	29° $\mathbb{M}$ 23'28 1°07'34
	5863 Nov 28 14:06	0° $\mathbb{A}$		5864 Nov 19 17:17	0° $\mathbb{A}$
superior conj	5863 Dec 08 01:33	16° $\mathbb{A}$ 49'17 0°37'24	max. Earth dist.	5864 Nov 26 19:53	12° $\mathbb{A}$ 29'34 1.41025 AU
minimum elong	5863 Dec 08 04:38	17° $\mathbb{A}$ 02'38 0°36'59	desc. node	5864 Nov 29 05:50	16° $\mathbb{A}$ 33'36
desc. node	5863 Dec 13 08:50	25° $\mathbb{A}$ 47'42	evening rise	5864 Dec 01 13:56	20° $\mathbb{A}$ 25'07
max. Earth dist.	5863 Dec 15 10:19	29° $\mathbb{A}$ 11'43 1.42922 AU		5864 Dec 07 14:10	0° $\mathbb{B}$
	5863 Dec 15 22:08	0° $\mathbb{B}$		5864 Dec 28 15:54	0° $\mathbb{A}$
evening rise	5863 Dec 22 04:47	10° $\mathbb{B}$ 02'18	evening max el	5865 Jan 04 17:24	8° $\mathbb{A}$ 04'54 23°13'41
	5864 Jan 04 09:24	0° $\mathbb{A}$	retrograde	5865 Jan 15 02:48	14° $\mathbb{A}$ 13'56
evening max el	5864 Jan 23 01:38	24° $\mathbb{A}$ 25'43 21°54'32	evening set	5865 Jan 20 01:10	12° $\mathbb{A}$ 11'47
retrograde	5864 Feb 01 08:10	29° $\mathbb{A}$ 56'06	asc. node	5865 Jan 20 06:17	12° $\mathbb{A}$ 00'49
asc. node	5864 Feb 03 09:15	29° $\mathbb{A}$ 34'03	inferior conj	5865 Jan 25 10:43	5° $\mathbb{A}$ 46'48 1°39'51
evening set	5864 Feb 05 18:30	28° $\mathbb{A}$ 09'32	minimum elong	5865 Jan 25 08:42	5° $\mathbb{A}$ 53'44 1°39'08
inferior conj	5864 Feb 11 02:35	21° $\mathbb{A}$ 50'31 2°20'42	min. Earth dist.	5865 Jan 25 00:29	6° $\mathbb{A}$ 22'00 0.68150 AU
minimum elong	5864 Feb 11 00:13	21° $\mathbb{A}$ 58'43 2°20'00		5865 Jan 30 06:38	30° $\mathbb{R}$ $\mathbb{B}$
min. Earth dist.	5864 Feb 11 03:48	21° $\mathbb{A}$ 46'17 0.68127 AU	morning rise	5865 Jan 30 16:09	29° $\mathbb{B}$ 40'00
morning rise	5864 Feb 16 05:45	15° $\mathbb{A}$ 39'12	direct	5865 Feb 03 23:39	27° $\mathbb{B}$ 56'54
direct	5864 Feb 21 03:29	13° $\mathbb{A}$ 33'13		5865 Feb 09 05:07	0° $\mathbb{A}$
morning max el	5864 Mar 01 21:48	19° $\mathbb{A}$ 19'13 22°38'05	morning max el	5865 Feb 12 12:59	2° $\mathbb{A}$ 53'52 21°14'06
desc. node	5864 Mar 10 08:06	29° $\mathbb{A}$ 16'35	desc. node	5865 Feb 25 05:06	18° $\mathbb{A}$ 52'13
	5864 Mar 10 21:18	0° $\mathbb{H}$		5865 Mar 04 20:31	0° $\mathbb{H}$
	5864 Mar 31 07:32	0° $\mathbb{Y}$	morning set	5865 Mar 15 13:24	16° $\mathbb{H}$ 24'30
morning set	5864 Apr 04 22:56	7° $\mathbb{Y}$ 29'47	max. Earth dist.	5865 Mar 22 19:26	28° $\mathbb{H}$ 03'18 1.42384 AU
max. Earth dist.	5864 Apr 09 17:19	15° $\mathbb{Y}$ 28'08 1.40318 AU		5865 Mar 23 23:49	0° $\mathbb{Y}$
superior conj	5864 Apr 17 12:30	29° $\mathbb{Y}$ 10'21 -1°50'12	superior conj	5865 Mar 30 02:47	10° $\mathbb{Y}$ 18'23 -2°06'32
minimum elong	5864 Apr 17 17:38	29° $\mathbb{Y}$ 33'37 1°49'43	minimum elong	5865 Mar 30 05:49	10° $\mathbb{Y}$ 31'25 2°06'25
	5864 Apr 17 23:26	0° $\mathbb{B}$	evening rise	5865 Apr 10 11:56	0° $\mathbb{B}$ 27'05
evening rise	5864 Apr 27 11:54	17° $\mathbb{B}$ 46'22		5865 Apr 10 05:56	0° $\mathbb{B}$
asc. node	5864 May 01 08:30	25° $\mathbb{B}$ 00'46	asc. node	5865 Apr 18 05:31	14° $\mathbb{B}$ 09'53
	5864 May 04 02:39	0° $\mathbb{H}$	evening max el	5865 Apr 27 01:35	26° $\mathbb{B}$ 34'10 18°07'33
evening max el	5864 May 13 14:59	13° $\mathbb{H}$ 38'07 18°24'14	retrograde	5865 May 03 18:18	29° $\mathbb{B}$ 58'44
retrograde	5864 May 21 01:22	17° $\mathbb{H}$ 19'41	evening set	5865 May 06 08:27	29° $\mathbb{B}$ 28'24
evening set	5864 May 23 08:31	16° $\mathbb{H}$ 59'29	inferior conj	5865 May 13 01:10	24° $\mathbb{B}$ 33'20 2°47'23
inferior conj	5864 May 30 18:24	12° $\mathbb{H}$ 25'10 1°48'37	minimum elong	5865 May 13 04:15	24° $\mathbb{B}$ 26'02 2°46'42
minimum elong	5864 May 30 21:37	12° $\mathbb{H}$ 18'36 1°47'36	min. Earth dist.	5865 May 16 07:10	21° $\mathbb{B}$ 30'02 0.60684 AU
min. Earth dist.	5864 Jun 03 04:36	9° $\mathbb{H}$ 39'00 0.58483 AU	morning rise	5865 May 19 21:46	18° $\mathbb{B}$ 40'17
desc. node	5864 Jun 06 07:19	7° $\mathbb{H}$ 29'37	desc. node	5865 May 24 04:20	16° $\mathbb{B}$ 47'02
morning rise	5864 Jun 07 07:33	6° $\mathbb{H}$ 55'40	direct	5865 May 26 12:52	16° $\mathbb{B}$ 30'53
direct	5864 Jun 13 09:15	5° $\mathbb{H}$ 19'01	morning max el	5865 Jun 09 19:48	24° $\mathbb{B}$ 27'06 27°47'12
morning max el	5864 Jun 27 18:30	13° $\mathbb{H}$ 02'33 27°05'51		5865 Jun 14 20:43	0° $\mathbb{H}$
	5864 Jul 11 04:16	0° $\mathbb{B}$		5865 Jul 04 12:06	0° $\mathbb{B}$
	5864 Jul 27 17:10	0° $\mathbb{Q}$	morning set	5865 Jul 12 08:10	15° $\mathbb{B}$ 17'57
morning set	5864 Jul 28 02:50	0° $\mathbb{Q}$ 50'38	asc. node	5865 Jul 15 04:47	21° $\mathbb{B}$ 19'08
asc. node	5864 Jul 28 07:46	1° $\mathbb{Q}$ 16'41	max. Earth dist.	5865 Jul 18 10:13	28° $\mathbb{B}$ 18'52 1.31978 AU
				5865 Jul 19 04:39	0° $\mathbb{Q}$
superior conj	5864 Aug 04 03:36	16° $\mathbb{Q}$ 08'05 1°05'43	superior conj	5865 Jul 19 14:40	0° $\mathbb{Q}$ 55'09 0°44'27
minimum elong	5864 Aug 04 01:21	15° $\mathbb{Q}$ 55'37 1°05'19	minimum elong	5865 Jul 19 12:51	0° $\mathbb{Q}$ 45'07 0°44'05
max. Earth dist.	5864 Aug 03 23:47	15° $\mathbb{Q}$ 46'56 1.31880 AU	evening rise	5865 Jul 26 09:46	15° $\mathbb{Q}$ 46'24
	5864 Aug 10 11:50	0° $\mathbb{M}$			


























































































































	5865 Aug 02 10:38	0°♎	evening rise	5866 Jul 10 21:31	0°♏32'02	
desc. node	5865 Aug 20 03:34	26°♎26'30		5866 Jul 10 15:30	0°♏	
evening max el	5865 Aug 22 05:48	28°♎33'36 25°17'52		5866 Jul 27 04:29	0°♎	
	5865 Aug 23 19:46	0°♏	evening max el	5866 Aug 03 18:11	9°♎00'49 23°43'58	
retrograde	5865 Sep 05 03:54	5°♏36'32	desc. node	5866 Aug 07 00:36	11°♎50'13	
evening set	5865 Sep 10 23:05	4°♏19'18	retrograde	5866 Aug 17 09:56	15°♎52'19	
min. Earth dist.	5865 Sep 15 17:25	1°♏39'11 0.57657 AU	evening set	5866 Aug 21 18:36	15°♎10'29	
	5865 Sep 18 03:50	30°♎	min. Earth dist.	5866 Aug 28 04:13	12°♎07'12 0.55966 AU	
inferior conj	5865 Sep 18 18:00	29°♎35'39 -5°17'01	inferior conj	5866 Aug 30 08:39	10°♎48'20 -5°15'24	
minimum elong	5865 Sep 18 20:51	29°♎30'46 5°16'48	minimum elong	5866 Aug 30 05:04	10°♎53'44 5°15'07	
morning rise	5865 Sep 26 20:53	25°♎21'41	morning rise	5866 Sep 07 17:59	6°♎53'13	
direct	5865 Sep 29 08:53	25°♎03'00	direct	5866 Sep 10 13:32	6°♎33'22	
morning max el	5865 Oct 08 04:02	29°♎13'33 18°59'31	morning max el	5866 Sep 20 19:46	11°♎20'08 20°05'15	
	5865 Oct 08 22:47	0°♏	asc. node	5866 Sep 28 01:06	20°♎18'22	
asc. node	5865 Oct 11 04:04	2°♏32'00		5866 Oct 03 16:38	0°♏	
morning set	5865 Oct 24 19:43	25°♏55'08	morning set	5866 Oct 09 00:33	10°♏29'55	
	5865 Oct 26 21:16	0°♎				
superior conj	5865 Nov 02 04:23	12°♎18'51 1°28'26	superior conj	5866 Oct 16 17:13	26°♏11'30 1°39'41	
minimum elong	5865 Nov 02 07:17	12°♎32'45 1°28'12	minimum elong	5866 Oct 16 18:39	26°♏18'42 1°39'37	
max. Earth dist.	5865 Nov 09 01:40	25°♎05'21 1.38911 AU		5866 Oct 18 15:09	0°♎	
	5865 Nov 11 20:27	0°♎	max. Earth dist.	5866 Oct 22 07:23	7°♎06'57 1.36839 AU	
evening rise	5865 Nov 12 21:43	1°♎49'15	evening rise	5866 Oct 26 02:47	14°♎10'48	
desc. node	5865 Nov 16 02:51	7°♎15'21	desc. node	5866 Nov 02 23:52	27°♎48'00	
	5865 Nov 30 20:17	0°♏		5866 Nov 04 08:11	0°♎	
evening max el	5865 Dec 18 06:42	21°♏47'45 24°32'43	evening max el	5866 Nov 25 15:42	0°♏	
retrograde	5865 Dec 29 17:46	28°♏29'31	retrograde	5866 Nov 30 19:17	5°♏31'55 25°44'53	
evening set	5866 Jan 04 05:13	26°♏12'32	evening set	5866 Dec 13 04:14	12°♏36'40	
asc. node	5866 Jan 07 03:17	23°♏08'15	min. Earth dist.	5866 Dec 19 04:58	10°♏07'14	
min. Earth dist.	5866 Jan 08 20:14	20°♏56'43 0.67798 AU	inferior conj	5866 Dec 23 12:46	5°♏26'00 0.67078 AU	
inferior conj	5866 Jan 09 17:33	19°♏45'39 0°51'49	minimum elong	5866 Dec 24 21:13	3°♏43'13 -0°02'38	
minimum elong	5866 Jan 09 16:20	19°♏49'41 0°51'21	transit middle	5866 Dec 24 21:16	3°♏43'01 0°02'35	
morning rise	5866 Jan 15 03:35	13°♏45'05	transit begin	5866 Dec 24 18:29	3°♏51'51	
direct	5866 Jan 18 21:51	12°♏24'06	transit end	5866 Dec 25 00:04	3°♏34'11	
morning max el	5866 Jan 26 11:54	16°♏41'17 20°01'26	asc. node	5866 Dec 25 00:19	3°♏33'21	
	5866 Feb 06 00:25	0°♏		5866 Dec 28 00:42	30°♎	
desc. node	5866 Feb 12 02:08	8°♏53'20	morning rise	5866 Dec 30 14:03	27°♎50'55	
morning set	5866 Feb 22 10:33	24°♏37'19	direct	5867 Jan 02 20:39	26°♎49'21	
	5866 Feb 25 21:50	0°♎		5867 Jan 09 02:34	0°♏	
max. Earth dist.	5866 Mar 05 05:06	11°♎30'32 1.44031 AU	morning max el	5867 Jan 09 18:38	0°♏38'36 19°03'24	
			desc. node	5867 Jan 29 23:10	29°♏12'32	
superior conj	5866 Mar 10 16:01	20°♎18'56 -2°08'23		5867 Jan 30 11:23	0°♏	
minimum elong	5866 Mar 10 13:34	20°♎08'52 2°08'20	morning set	5867 Feb 01 14:31	3°♏18'44	
	5866 Mar 16 12:27	0°♎	max. Earth dist.	5867 Feb 15 20:33	25°♏34'28 1.45060 AU	
evening rise	5866 Mar 23 17:54	12°♎17'33				
	5866 Apr 03 06:13	0°♏	superior conj	5867 Feb 18 06:03	29°♏21'01 -1°51'00	
asc. node	5866 Apr 05 02:31	2°♏49'47	minimum elong	5867 Feb 17 21:38	28°♏47'46 1°50'22	
evening max el	5866 Apr 10 14:25	9°♏48'28 18°10'02		5867 Feb 18 15:55	0°♎	
retrograde	5866 Apr 17 00:22	13°♏11'07	evening rise	5867 Mar 05 01:51	23°♎11'20	
evening set	5866 Apr 19 20:58	12°♏29'03		5867 Mar 09 05:37	0°♎	
inferior conj	5866 Apr 26 00:36	7°♏14'34 3°19'25	asc. node	5867 Mar 22 23:33	20°♎51'50	
minimum elong	5866 Apr 26 02:20	7°♏09'54 3°19'12	evening max el	5867 Mar 25 02:39	23°♎14'37 18°31'05	
min. Earth dist.	5866 Apr 28 18:37	4°♏17'57 0.62835 AU	retrograde	5867 Mar 31 15:06	26°♎48'20	
morning rise	5866 May 02 06:19	1°♏07'46	evening set	5867 Apr 03 18:13	25°♎53'31	
	5866 May 03 23:01	30°♎	inferior conj	5867 Apr 09 12:38	20°♎21'18 3°30'31	
direct	5866 May 09 02:13	28°♎32'52	minimum elong	5867 Apr 09 12:48	20°♎20'47 3°30'30	
desc. node	5866 May 11 01:22	28°♎44'37	min. Earth dist.	5867 Apr 11 15:34	17°♎50'14 0.64724 AU	
	5866 May 14 14:43	0°♏	morning rise	5867 Apr 15 06:39	14°♎08'01	
morning max el	5866 May 23 02:40	6°♏34'04 27°50'33	direct	5867 Apr 21 23:47	11°♎19'59	
	5866 Jun 09 22:11	0°♎	desc. node	5867 Apr 27 22:25	13°♎07'52	
morning set	5866 Jun 26 07:28	29°♎24'35	morning max el	5867 May 05 12:27	19°♎15'36 27°18'22	
	5866 Jun 26 14:29	0°♏		5867 May 14 15:19	0°♏	
max. Earth dist.	5866 Jul 01 16:12	10°♏34'08 1.32512 AU		5867 Jun 02 22:06	0°♎	
asc. node	5866 Jul 02 01:48	11°♏25'30	morning set	5867 Jun 09 22:06	13°♎02'46	
			max. Earth dist.	5867 Jun 14 13:45	22°♎21'58 1.33511 AU	
superior conj	5866 Jul 03 23:10	15°♏30'11 0°19'30				
minimum elong	5866 Jul 03 22:15	15°♏25'14 0°19'17	superior conj	5867 Jun 18 03:10	29°♎47'44 -0°08'28	

minimum elong	5867 Jun 18 03:36	29° $\Pi$ 50'03	0°08'24	max. Earth dist.	5868 May 27 00:11	3° $\Pi$ 39'19	1.34988 AU
behind sun begin	5867 Jun 17 22:52	29° $\Pi$ 25'00					
behind sun end	5867 Jun 18 08:20	0° $\mathfrak{S}$ 15'08		superior conj	5868 Jun 01 00:13	13° $\Pi$ 40'15	-0°38'20
	5867 Jun 18 05:29	0° $\mathfrak{S}$		minimum elong	5868 Jun 01 02:21	13° $\Pi$ 51'09	0°37'57
asc. node	5867 Jun 18 22:49	1° $\mathfrak{S}$ 32'00		asc. node	5868 Jun 04 19:51	21° $\Pi$ 34'06	
evening rise	5867 Jun 25 08:38	15° $\mathfrak{S}$ 11'46		evening rise	5868 Jun 08 17:05	29° $\Pi$ 38'57	
	5867 Jul 02 19:01	0° $\Omega$			5868 Jun 08 21:09	0° $\mathfrak{S}$	
evening max el	5867 Jul 16 08:43	19° $\Omega$ 21'32	22°06'41		5868 Jun 27 06:06	0° $\Omega$	
desc. node	5867 Jul 24 21:37	25° $\Omega$ 00'26		evening max el	5868 Jun 27 09:01	0° $\Omega$ 07'13	20°39'49
retrograde	5867 Jul 29 04:07	25° $\Omega$ 43'01		retrograde	5868 Jul 08 16:14	5° $\Omega$ 40'22	
evening set	5867 Aug 01 01:36	25° $\Omega$ 24'24		evening set	5868 Jul 10 17:36	5° $\Omega$ 30'06	
min. Earth dist.	5867 Aug 09 14:03	21° $\Omega$ 44'03	0.54944 AU	desc. node	5868 Jul 10 18:41	5° $\Omega$ 29'39	
inferior conj	5867 Aug 10 06:57	21° $\Omega$ 20'17	-4°22'42	inferior conj	5868 Jul 19 23:59	1° $\Omega$ 33'13	-2°42'45
minimum elong	5867 Aug 09 22:16	21° $\Omega$ 32'30	4°20'42	minimum elong	5868 Jul 19 16:35	1° $\Omega$ 43'48	2°40'13
morning rise	5867 Aug 18 20:35	17° $\Omega$ 30'31		min. Earth dist.	5868 Jul 21 00:53	0° $\Omega$ 57'34	0.54836 AU
direct	5867 Aug 22 02:32	17° $\Omega$ 07'01			5868 Jul 22 18:01	30° $\mathfrak{R}$ $\mathfrak{S}$	
morning max el	5867 Sep 02 23:12	22° $\Omega$ 40'09	21°31'39	morning rise	5868 Jul 28 15:05	27° $\mathfrak{S}$ 29'26	
	5867 Sep 09 07:03	0° $\mathfrak{M}$		direct	5868 Aug 01 11:50	26° $\mathfrak{S}$ 57'20	
asc. node	5867 Sep 14 22:09	8° $\mathfrak{M}$ 49'16			5868 Aug 10 13:16	0° $\Omega$	
morning set	5867 Sep 23 09:34	25° $\mathfrak{M}$ 15'53		morning max el	5868 Aug 14 16:32	3° $\Omega$ 18'46	23°12'52
	5867 Sep 25 15:44	0° $\mathfrak{L}$		asc. node	5868 Aug 31 19:12	27° $\Omega$ 53'19	
					5868 Sep 01 21:34	0° $\mathfrak{M}$	
superior conj	5867 Sep 30 15:52	10° $\mathfrak{L}$ 32'20	1°43'01	morning set	5868 Sep 06 20:48	10° $\mathfrak{M}$ 07'06	
minimum elong	5867 Sep 30 15:51	10° $\mathfrak{L}$ 32'12	1°43'01				
max. Earth dist.	5867 Oct 04 18:44	18° $\mathfrak{L}$ 58'39	1.35027 AU	superior conj	5868 Sep 13 21:08	25° $\mathfrak{M}$ 11'27	1°39'36
evening rise	5867 Oct 09 01:23	27° $\mathfrak{L}$ 20'45		minimum elong	5868 Sep 13 19:56	25° $\mathfrak{M}$ 05'00	1°39'32
	5867 Oct 10 11:09	0° $\mathfrak{M}$			5868 Sep 16 03:18	0° $\mathfrak{L}$	
desc. node	5867 Oct 20 20:52	18° $\mathfrak{M}$ 06'37		max. Earth dist.	5868 Sep 16 14:53	1° $\mathfrak{L}$ 01'03	1.33592 AU
	5867 Oct 28 15:45	0° $\mathfrak{J}$		evening rise	5868 Sep 21 13:22	11° $\mathfrak{L}$ 07'43	
evening max el	5867 Nov 13 08:10	19° $\mathfrak{J}$ 12'43	26°42'44		5868 Oct 01 19:08	0° $\mathfrak{M}$	
retrograde	5867 Nov 26 09:23	26° $\mathfrak{J}$ 28'57		desc. node	5868 Oct 06 17:54	8° $\mathfrak{M}$ 04'44	
evening set	5867 Dec 02 22:29	23° $\mathfrak{J}$ 51'35			5868 Oct 23 05:06	0° $\mathfrak{J}$	
min. Earth dist.	5867 Dec 06 23:50	19° $\mathfrak{J}$ 45'19	0.66006 AU	evening max el	5868 Oct 25 20:50	2° $\mathfrak{J}$ 40'46	27°18'54
inferior conj	5867 Dec 08 19:44	17° $\mathfrak{J}$ 35'47	-1°02'31	retrograde	5868 Nov 08 08:28	9° $\mathfrak{J}$ 58'59	
minimum elong	5867 Dec 08 21:29	17° $\mathfrak{J}$ 30'35	1°01'44	evening set	5868 Nov 15 07:26	7° $\mathfrak{J}$ 20'32	
asc. node	5867 Dec 11 21:24	14° $\mathfrak{J}$ 12'12		min. Earth dist.	5868 Nov 19 03:05	3° $\mathfrak{J}$ 48'36	0.64589 AU
morning rise	5867 Dec 14 21:21	11° $\mathfrak{J}$ 54'12		inferior conj	5868 Nov 21 10:47	1° $\mathfrak{J}$ 18'29	-2°06'12
direct	5867 Dec 17 18:17	11° $\mathfrak{J}$ 08'20		minimum elong	5868 Nov 21 14:31	1° $\mathfrak{J}$ 08'25	2°04'41
morning max el	5867 Dec 24 07:25	14° $\mathfrak{J}$ 40'40	18°21'29		5868 Nov 22 16:18	30° $\mathfrak{R}$ $\mathfrak{M}$	
	5868 Jan 04 11:56	0° $\mathfrak{Z}$		morning rise	5868 Nov 27 22:53	25° $\mathfrak{M}$ 50'43	
morning set	5868 Jan 12 20:30	13° $\mathfrak{Z}$ 21'06		asc. node	5868 Nov 27 18:28	25° $\mathfrak{M}$ 55'42	
desc. node	5868 Jan 16 20:10	19° $\mathfrak{Z}$ 44'21		direct	5868 Nov 30 12:27	25° $\mathfrak{M}$ 16'39	
	5868 Jan 23 07:12	0° $\approx$		morning max el	5868 Dec 06 23:44	28° $\mathfrak{M}$ 41'34	17°56'31
					5868 Dec 08 05:14	0° $\mathfrak{J}$	
superior conj	5868 Jan 28 09:26	8° $\approx$ 00'56	-1°15'05	morning set	5868 Dec 24 07:54	24° $\mathfrak{J}$ 51'03	
minimum elong	5868 Jan 28 00:44	7° $\approx$ 26'49	1°14'03		5868 Dec 27 09:42	0° $\mathfrak{Z}$	
max. Earth dist.	5868 Jan 29 15:16	9° $\approx$ 57'55	1.45374 AU	desc. node	5869 Jan 02 17:11	10° $\mathfrak{Z}$ 24'56	
	5868 Feb 11 10:18	0° $\mathfrak{H}$					
evening rise	5868 Feb 13 10:36	3° $\mathfrak{H}$ 09'36		superior conj	5869 Jan 06 22:18	17° $\mathfrak{Z}$ 13'44	-0°29'19
greatest brilliancy	5868 Feb 24 00:54	19° $\mathfrak{H}$ 44'31	-0.8m	minimum elong	5869 Jan 06 18:49	16° $\mathfrak{Z}$ 59'43	0°28'48
	5868 Mar 01 23:21	0° $\mathfrak{Y}$		max. Earth dist.	5869 Jan 11 10:49	24° $\mathfrak{Z}$ 25'24	1.44948 AU
evening max el	5868 Mar 07 11:57	6° $\mathfrak{Y}$ 46'37	19°09'39		5869 Jan 14 23:59	0° $\approx$	
asc. node	5868 Mar 08 20:37	8° $\mathfrak{Y}$ 04'04		evening rise	5869 Jan 23 01:50	12° $\approx$ 31'08	
retrograde	5868 Mar 14 10:54	10° $\mathfrak{Y}$ 42'49			5869 Feb 03 13:44	0° $\mathfrak{H}$	
evening set	5868 Mar 17 21:11	9° $\mathfrak{Y}$ 34'21		greatest brilliancy	5869 Feb 06 16:46	4° $\mathfrak{H}$ 38'03	-0.6m
inferior conj	5868 Mar 23 09:37	3° $\mathfrak{Y}$ 46'01	3°25'36	evening max el	5869 Feb 18 16:34	20° $\mathfrak{H}$ 21'17	20°03'58
minimum elong	5868 Mar 23 08:30	3° $\mathfrak{Y}$ 49'34	3°25'30	asc. node	5869 Feb 23 17:41	24° $\mathfrak{H}$ 12'54	
min. Earth dist.	5868 Mar 24 21:07	1° $\mathfrak{Y}$ 52'22	0.66230 AU	retrograde	5869 Feb 26 08:57	24° $\mathfrak{H}$ 49'29	
	5868 Mar 26 09:55	30° $\mathfrak{R}$ $\mathfrak{H}$		evening set	5869 Mar 02 03:31	23° $\mathfrak{H}$ 26'35	
morning rise	5868 Mar 28 19:27	27° $\mathfrak{H}$ 30'43		inferior conj	5869 Mar 07 12:37	17° $\mathfrak{H}$ 24'06	3°08'12
direct	5868 Apr 04 04:02	24° $\mathfrak{H}$ 42'49		minimum elong	5869 Mar 07 10:39	17° $\mathfrak{H}$ 30'43	3°07'51
desc. node	5868 Apr 13 19:28	29° $\mathfrak{H}$ 23'04		min. Earth dist.	5869 Mar 08 09:41	16° $\mathfrak{H}$ 13'06	0.67304 AU
	5868 Apr 14 12:21	0° $\mathfrak{Y}$		morning rise	5869 Mar 12 17:35	11° $\mathfrak{H}$ 09'11	
morning max el	5868 Apr 16 22:22	2° $\mathfrak{Y}$ 18'34	26°17'41	direct	5869 Mar 18 13:47	8° $\mathfrak{H}$ 32'32	
	5868 May 07 19:32	0° $\mathfrak{B}$		morning max el	5869 Mar 30 07:21	15° $\mathfrak{H}$ 33'30	24°57'55
morning set	5868 May 23 00:22	26° $\mathfrak{B}$ 01'21		desc. node	5869 Mar 31 16:29	16° $\mathfrak{H}$ 59'55	
	5868 May 25 02:49	0° $\Pi$			5869 Apr 11 04:32	0° $\mathfrak{Y}$	



	5869 Apr 30 17:24	0°♄		desc. node	5870 Mar 18 13:30	5°♄34'58	
morning set	5869 May 05 09:35	8°♄07'38			5870 Apr 04 22:57	0°♄	
max. Earth dist.	5869 May 09 00:34	14°♄42'14	1.36890 AU	morning set	5870 Apr 16 19:57	19°♄06'17	
				max. Earth dist.	5870 Apr 20 20:18	26°♄00'43	1.39052 AU
superior conj	5869 May 15 11:24	27°♄00'14	-1°08'32		5870 Apr 23 02:24	0°♄	
minimum elong	5869 May 15 15:17	27°♄19'19	1°07'54				
	5869 May 16 23:51	0°♄		superior conj	5870 Apr 28 08:52	9°♄37'46	-1°36'31
asc. node	5869 May 22 16:54	11°♄28'02		minimum elong	5870 Apr 28 13:58	10°♄01'37	1°35'53
evening rise	5869 May 23 20:36	13°♄47'24		evening rise	5870 May 07 16:22	27°♄29'18	
	5869 Jun 01 10:16	0°♄			5870 May 08 23:33	0°♄	
evening max el	5869 Jun 09 22:00	11°♄34'19	19°31'02	asc. node	5870 May 09 13:57	1°♄09'15	
retrograde	5869 Jun 19 11:38	16°♄15'36		evening max el	5870 May 23 22:05	23°♄42'53	18°42'44
evening set	5869 Jun 21 09:36	16°♄05'09		retrograde	5870 Jun 01 00:16	27°♄42'13	
desc. node	5869 Jun 27 15:43	13°♄30'41		evening set	5870 Jun 03 03:11	27°♄26'44	
inferior conj	5869 Jun 30 02:25	11°♄59'49	-0°44'06	inferior conj	5870 Jun 11 00:19	23°♄03'53	1°01'00
minimum elong	5869 Jun 30 00:26	12°♄02'59	0°43'23	minimum elong	5870 Jun 11 02:31	22°♄59'46	1°00'12
min. Earth dist.	5869 Jul 02 13:53	10°♄25'12	0.55684 AU	min. Earth dist.	5870 Jun 14 06:50	20°♄38'37	0.57307 AU
morning rise	5869 Jul 08 12:44	7°♄24'52		desc. node	5870 Jun 14 12:43	20°♄28'14	
direct	5869 Jul 13 05:17	6°♄35'33		morning rise	5870 Jun 18 22:28	17°♄52'17	
morning max el	5869 Jul 27 05:48	13°♄37'54	24°56'34	direct	5870 Jun 24 12:44	16°♄35'07	
	5869 Aug 09 01:03	0°♄		morning max el	5870 Jul 08 21:34	24°♄07'21	26°26'28
asc. node	5869 Aug 18 16:12	17°♄22'01			5870 Jul 14 06:05	0°♄	
morning set	5869 Aug 22 08:31	24°♄58'33			5870 Aug 02 00:26	0°♄	
	5869 Aug 24 16:38	0°♄		asc. node	5870 Aug 05 13:13	7°♄08'37	
				morning set	5870 Aug 06 19:08	9°♄45'32	
superior conj	5869 Aug 29 06:31	10°♄01'03	1°30'23				
minimum elong	5869 Aug 29 04:33	9°♄50'16	1°30'10	superior conj	5870 Aug 13 18:00	24°♄54'58	1°16'03
max. Earth dist.	5869 Aug 30 19:08	13°♄20'45	1.32585 AU	minimum elong	5870 Aug 13 15:43	24°♄42'21	1°15'43
evening rise	5869 Sep 05 11:07	25°♄21'29		max. Earth dist.	5870 Aug 14 04:33	25°♄53'18	1.32010 AU
	5869 Sep 07 18:17	0°♄			5870 Aug 16 01:21	0°♄	
desc. node	5869 Sep 23 14:56	27°♄33'16		evening rise	5870 Aug 20 15:41	9°♄53'52	
	5869 Sep 25 07:04	0°♄			5870 Aug 31 01:18	0°♄	
evening max el	5869 Oct 08 07:11	15°♄41'59	27°26'45	desc. node	5870 Sep 10 11:57	16°♄20'11	
retrograde	5869 Oct 22 00:47	22°♄57'11		evening max el	5870 Sep 20 12:35	28°♄03'26	27°01'49
evening set	5869 Oct 29 04:42	20°♄26'57			5870 Sep 22 17:03	0°♄	
min. Earth dist.	5869 Nov 01 20:25	17°♄25'34	0.62853 AU	retrograde	5870 Oct 04 09:42	5°♄14'36	
inferior conj	5869 Nov 04 15:32	14°♄43'40	-3°10'59	evening set	5870 Oct 11 10:19	3°♄04'18	
minimum elong	5869 Nov 04 21:07	14°♄30'09	3°09'03	min. Earth dist.	5870 Oct 15 02:57	0°♄24'01	0.60871 AU
morning rise	5869 Nov 11 15:15	9°♄33'15			5870 Oct 15 14:34	30°♄	
direct	5869 Nov 14 00:01	9°♄07'22		inferior conj	5870 Oct 18 06:41	27°♄43'09	-4°11'56
asc. node	5869 Nov 14 15:31	9°♄09'20		minimum elong	5870 Oct 18 13:13	27°♄29'13	4°10'12
morning max el	5869 Nov 20 16:34	12°♄33'31	17°49'10	morning rise	5870 Oct 25 18:12	22°♄53'27	
	5869 Dec 02 12:46	0°♄		direct	5870 Oct 28 01:11	22°♄32'34	
morning set	5869 Dec 06 19:12	7°♄29'40		asc. node	5870 Nov 01 12:31	23°♄55'53	
				morning max el	5870 Nov 04 06:43	26°♄08'34	18°00'26
superior conj	5869 Dec 18 10:48	27°♄36'39	0°15'13		5870 Nov 07 14:19	0°♄	
minimum elong	5869 Dec 18 12:18	27°♄42'56	0°15'02	morning set	5870 Nov 19 23:57	20°♄57'34	
behind sun begin	5869 Dec 18 09:01	27°♄29'13			5870 Nov 24 21:43	0°♄	
behind sun end	5869 Dec 18 15:34	27°♄56'38					
	5869 Dec 19 21:12	0°♄		superior conj	5870 Nov 30 01:24	9°♄15'27	0°51'38
desc. node	5869 Dec 20 14:11	1°♄10'16		minimum elong	5870 Nov 30 05:04	9°♄31'35	0°51'10
max. Earth dist.	5869 Dec 25 04:01	8°♄38'01	1.43830 AU	desc. node	5870 Dec 07 11:12	21°♄57'05	
evening rise	5870 Jan 02 12:39	21°♄48'54		max. Earth dist.	5870 Dec 07 16:11	22°♄17'46	1.42155 AU
	5870 Jan 07 21:06	0°♄			5870 Dec 12 09:26	0°♄	
	5870 Jan 29 03:08	0°♄		evening rise	5870 Dec 13 10:29	1°♄34'08	
evening max el	5870 Feb 01 15:37	3°♄56'32	21°11'18		5871 Jan 01 08:37	0°♄	
retrograde	5870 Feb 10 07:04	9°♄03'31		evening max el	5871 Jan 15 09:30	17°♄33'21	22°27'40
asc. node	5870 Feb 10 14:45	9°♄02'59		retrograde	5871 Jan 25 03:30	23°♄21'08	
evening set	5870 Feb 14 11:16	7°♄25'32		asc. node	5871 Jan 28 11:46	22°♄22'57	
inferior conj	5870 Feb 19 19:11	1°♄11'26	2°40'36	evening set	5871 Jan 29 18:48	21°♄27'47	
minimum elong	5870 Feb 19 16:50	1°♄19'34	2°39'59	inferior conj	5871 Feb 04 03:18	15°♄05'27	2°04'18
min. Earth dist.	5870 Feb 20 03:13	0°♄43'38	0.67948 AU	minimum elong	5871 Feb 04 01:02	15°♄13'21	2°03'34
	5870 Feb 20 15:53	30°♄		min. Earth dist.	5871 Feb 03 23:30	15°♄18'38	0.68185 AU
morning rise	5870 Feb 24 22:15	24°♄58'29		morning rise	5871 Feb 09 07:08	8°♄55'48	
direct	5870 Mar 02 04:15	22°♄40'19		direct	5871 Feb 13 22:37	6°♄59'43	
morning max el	5870 Mar 12 16:22	28°♄55'16	23°29'15	morning max el	5871 Feb 23 04:20	12°♄24'31	22°01'13
	5870 Mar 13 17:24	0°♄		desc. node	5871 Mar 05 10:30	24°♄52'04	

	5871 Mar 09 03:16	0°♄			5872 Feb 09 11:35	0°♁		
morning set	5871 Mar 28 02:25	28°♄45'19		desc. node	5872 Feb 20 07:31	14°♁39'50		
	5871 Mar 28 20:55	0°♄			5872 Mar 01 14:14	0°♄		
max. Earth dist.	5871 Apr 02 18:13	8°♄02'27	1.41231 AU	morning set	5872 Mar 06 07:18	7°♄15'46		
				max. Earth dist.	5872 Mar 14 23:09	20°♄59'46	1.43146 AU	
superior conj	5871 Apr 10 11:57	21°♄21'30	-1°58'31		5872 Mar 20 10:46	0°♄		
minimum elong	5871 Apr 10 16:35	21°♄42'04	1°58'13					
	5871 Apr 15 07:15	0°♄		superior conj	5872 Mar 21 16:00	2°♄02'10	-2°09'26	
evening rise	5871 Apr 21 00:49	10°♄35'07		minimum elong	5872 Mar 21 17:05	2°♄06'42	2°09'26	
asc. node	5871 Apr 26 10:59	20°♄31'54		evening rise	5872 Apr 02 17:48	22°♄56'03		
	5871 May 02 03:34	0°♄			5872 Apr 06 17:48	0°♄		
evening max el	5871 May 07 05:54	6°♄24'23	18°14'44	asc. node	5872 Apr 12 08:01	9°♄30'08		
retrograde	5871 May 14 07:33	9°♄57'03		evening max el	5872 Apr 19 17:58	19°♄30'11	18°06'19	
evening set	5871 May 16 17:36	9°♄32'57		retrograde	5872 Apr 26 06:31	22°♄51'57		
inferior conj	5871 May 23 19:44	4°♄49'55	2°17'10	evening set	5872 Apr 28 23:28	22°♄16'49		
minimum elong	5871 May 23 23:08	4°♄42'31	2°16'13	inferior conj	5872 May 05 10:10	17°♄13'38	3°03'50	
min. Earth dist.	5871 May 27 05:33	1°♄53'05	0.59401 AU	minimum elong	5872 May 05 12:44	17°♄07'10	3°03'22	
	5871 May 29 17:11	30°♄8		min. Earth dist.	5872 May 08 11:52	14°♄10'14	0.61623 AU	
morning rise	5871 May 31 01:45	29°♄08'45		morning rise	5872 May 12 00:07	11°♄13'47		
desc. node	5871 Jun 01 09:45	28°♄27'10		desc. node	5872 May 18 06:47	8°♄52'36		
direct	5871 Jun 06 10:03	27°♄17'34		direct	5872 May 18 18:30	8°♄51'53		
	5871 Jun 14 12:16	0°♄		morning max el	5872 Jun 01 23:00	16°♄51'33	27°53'06	
morning max el	5871 Jun 20 19:12	5°♄08'31	27°28'02		5872 Jun 12 19:36	0°♄		
	5871 Jul 09 05:03	0°♄			5872 Jun 30 21:05	0°♄		
morning set	5871 Jul 22 02:54	24°♄21'32		morning set	5872 Jul 05 05:57	8°♄40'54		
asc. node	5871 Jul 23 10:13	27°♄06'36		asc. node	5872 Jul 09 07:15	17°♄11'24		
	5871 Jul 24 18:38	0°♄		max. Earth dist.	5872 Jul 11 00:22	20°♄53'15	1.32151 AU	
max. Earth dist.	5871 Jul 28 15:32	8°♄27'51	1.31862 AU					
				superior conj	5872 Jul 12 15:55	24°♄29'00	0°34'18	
superior conj	5871 Jul 29 05:42	9°♄46'06	0°57'12	minimum elong	5872 Jul 12 14:25	24°♄20'50	0°33'58	
minimum elong	5871 Jul 29 03:34	9°♄34'20	0°56'47		5872 Jul 15 04:14	0°♄		
evening rise	5871 Aug 05 00:37	24°♄36'24		evening rise	5872 Jul 19 11:55	9°♄22'58		
	5871 Aug 07 14:31	0°♄			5872 Jul 30 01:29	0°♄		
	5871 Aug 25 03:13	0°♄		evening max el	5872 Aug 14 01:56	20°♄23'07	24°39'26	
desc. node	5871 Aug 28 08:59	4°♄07'50		desc. node	5872 Aug 14 06:00	20°♄32'49		
evening max el	5871 Sep 02 10:49	9°♄36'12	26°03'55	retrograde	5872 Aug 27 22:48	27°♄22'20		
retrograde	5871 Sep 16 09:53	16°♄43'04		evening set	5872 Sep 02 04:06	26°♄21'16		
evening set	5871 Sep 22 19:25	15°♄04'32		min. Earth dist.	5872 Sep 07 13:11	23°♄33'00	0.56877 AU	
min. Earth dist.	5871 Sep 26 23:39	12°♄29'29	0.58793 AU	inferior conj	5872 Sep 10 06:59	21°♄47'04	-5°21'53	
inferior conj	5871 Sep 30 04:43	10°♄06'59	-5°00'16	minimum elong	5872 Sep 10 07:20	21°♄46'30	5°21'53	
minimum elong	5871 Sep 30 09:56	9°♄57'19	4°59'29	morning rise	5872 Sep 18 12:52	17°♄41'41		
morning rise	5871 Oct 08 02:43	5°♄39'56		direct	5872 Sep 21 03:38	17°♄22'45		
direct	5871 Oct 10 11:33	5°♄21'16		morning max el	5872 Sep 30 13:01	21°♄47'48	19°24'44	
morning max el	5871 Oct 18 14:40	9°♄16'38	18°31'48	asc. node	5872 Oct 05 06:32	27°♄18'40		
asc. node	5871 Oct 19 09:31	10°♄03'55			5872 Oct 07 02:55	0°♄		
	5871 Nov 01 02:26	0°♄		morning set	5872 Oct 17 18:18	19°♄24'42		
morning set	5871 Nov 03 16:56	4°♄59'27			5872 Oct 23 00:57	0°♄		
superior conj	5871 Nov 12 14:01	21°♄57'36	1°17'53	superior conj	5872 Oct 25 19:22	5°♄28'12	1°34'16	
minimum elong	5871 Nov 12 17:34	22°♄14'05	1°17'30	minimum elong	5872 Oct 25 21:41	5°♄39'29	1°34'06	
	5871 Nov 16 23:45	0°♄		max. Earth dist.	5872 Nov 01 04:12	17°♄33'12	1.38011 AU	
max. Earth dist.	5871 Nov 19 23:12	5°♄14'52	1.40131 AU	evening rise	5872 Nov 04 22:14	24°♄17'43		
evening rise	5871 Nov 24 05:02	12°♄28'20			5872 Nov 08 05:31	0°♄		
desc. node	5871 Nov 24 08:14	12°♄41'38		desc. node	5872 Nov 10 05:14	3°♄19'57		
	5871 Dec 05 05:57	0°♄			5872 Nov 27 23:02	0°♄		
	5871 Dec 27 19:02	0°♄		evening max el	5872 Dec 10 12:54	14°♄58'15	25°04'53	
evening max el	5871 Dec 28 23:56	1°♄14'00	23°47'45	retrograde	5872 Dec 22 09:57	21°♄50'51		
retrograde	5872 Jan 08 20:53	7°♄38'36		evening set	5872 Dec 28 02:59	19°♄28'29		
evening set	5872 Jan 14 00:34	5°♄30'08		asc. node	5873 Jan 01 05:49	14°♄56'37		
asc. node	5872 Jan 15 08:46	4°♄13'27		min. Earth dist.	5873 Jan 01 14:57	14°♄27'07	0.67530 AU	
	5872 Jan 18 18:35	30°♄3		inferior conj	5873 Jan 02 16:51	13°♄02'21	0°29'28	
inferior conj	5872 Jan 19 11:08	29°♄03'37	1°20'20	minimum elong	5873 Jan 02 16:08	13°♄04'43	0°29'12	
minimum elong	5872 Jan 19 09:24	29°♄09'31	1°19'42	morning rise	5873 Jan 08 05:30	7°♄04'48		
min. Earth dist.	5872 Jan 18 20:12	29°♄54'28	0.68038 AU	direct	5873 Jan 11 18:39	5°♄52'18		
morning rise	5872 Jan 24 18:13	22°♄59'00		morning max el	5873 Jan 19 00:51	9°♄56'05	19°34'51	
direct	5872 Jan 28 19:54	21°♄25'29		greatest brilliancy	5873 Feb 01 00:32	27°♄03'06	-0.7m	
morning max el	5872 Feb 05 22:38	26°♄04'41	20°41'31		5873 Feb 02 23:57	0°♄		

desc. node	5873 Feb 06 04:32	4°  49'18		asc. node	5873 Dec 19 02:51	25°  20'52	
morning set	5873 Feb 13 04:09	15°  31'29		morning rise	5873 Dec 23 14:57	21°  10'36	
	5873 Feb 22 11:23	0° 		direct	5873 Dec 26 17:17	20°  16'03	
max. Earth dist.	5873 Feb 25 11:41	4°  45'13	1.44554 AU	morning max el	5874 Jan 02 10:26	23°  56'25	18°43'36
					5874 Jan 07 11:49	0° 	
superior conj	5873 Mar 01 18:40	11°  35'51	-2°03'31	morning set	5874 Jan 23 17:51	24°  44'22	
minimum elong	5873 Mar 01 13:21	11°  14'32	2°03'16	desc. node	5874 Jan 24 01:34	25°  14'41	
	5873 Mar 13 00:06	0° 			5874 Jan 27 02:09	0° 	
evening rise	5873 Mar 15 14:47	4°  22'48		max. Earth dist.	5874 Feb 08 05:29	19°  01'53	1.45289 AU
asc. node	5873 Mar 30 05:04	27°  55'25					
	5873 Mar 31 18:47	0° 		superior conj	5874 Feb 09 01:53	20°  21'55	-1°37'41
evening max el	5873 Apr 03 06:58	2°  50'53	18°16'46	minimum elong	5874 Feb 08 16:25	19°  44'47	1°36'47
retrograde	5873 Apr 09 16:43	6°  16'19			5874 Feb 15 04:43	0° 	
evening set	5873 Apr 12 16:11	5°  28'47		evening rise	5874 Feb 24 12:43	14°  52'21	
inferior conj	5873 Apr 18 15:27	0°  06'33	3°26'18	greatest brilliancy	5874 Mar 03 19:51	26°  35'12	-0.9m
minimum elong	5873 Apr 18 16:30	0°  03'34	3°26'13		5874 Mar 05 23:27	0° 	
	5873 Apr 18 17:46	30°  08'00		asc. node	5874 Mar 17 02:07	15°  37'52	
min. Earth dist.	5873 Apr 21 03:12	27°  19'09	0.63689 AU	evening max el	5874 Mar 17 18:13	16°  20'02	18°45'21
morning rise	5873 Apr 24 15:48	23°  56'36		retrograde	5874 Mar 24 10:06	20°  01'57	
direct	5873 May 01 11:31	21°  14'35		evening set	5874 Mar 27 16:13	19°  01'16	
desc. node	5873 May 05 03:49	21°  55'54		inferior conj	5874 Apr 02 07:42	13°  21'41	3°30'08
morning max el	5873 May 15 07:16	29°  13'53	27°40'46	minimum elong	5874 Apr 02 07:17	13°  22'58	3°30'07
	5873 May 16 01:20	0° 		min. Earth dist.	5874 Apr 04 03:52	11°  05'51	0.65418 AU
	5873 Jun 06 17:25	0° 		morning rise	5874 Apr 07 21:50	7°  07'11	
morning set	5873 Jun 19 01:56	22°  36'18		direct	5874 Apr 14 11:48	4°  18'03	
	5873 Jun 22 17:11	0° 		desc. node	5874 Apr 22 00:52	7°  10'52	
max. Earth dist.	5873 Jun 24 03:13	2°  57'54	1.32886 AU	morning max el	5874 Apr 27 17:31	12°  06'28	26°55'34
asc. node	5873 Jun 26 04:19	7°  18'28			5874 May 12 00:41	0° 	
					5874 May 30 07:23	0° 	
superior conj	5873 Jun 26 22:47	8°  57'30	0°07'59	morning set	5874 Jun 02 11:50	5°  59'10	
minimum elong	5873 Jun 26 22:24	8°  55'25	0°07'52	max. Earth dist.	5874 Jun 06 20:35	14°  34'01	1.34088 AU
behind sun begin	5873 Jun 26 17:43	8°  30'16					
behind sun end	5873 Jun 27 03:05	9°  20'36		superior conj	5874 Jun 11 00:10	23°  10'52	-0°20'58
evening rise	5873 Jul 03 23:39	24°  07'08		minimum elong	5874 Jun 11 01:18	23°  11'13	0°20'46
	5873 Jul 06 19:18	0° 		asc. node	5874 Jun 13 01:22	27°  23'44	
	5873 Jul 25 20:45	0° 			5874 Jun 14 06:55	0° 	
evening max el	5873 Jul 26 14:19	0°  43'46	23°02'02	evening rise	5874 Jun 18 09:56	8°  42'43	
desc. node	5873 Aug 01 03:02	5°  04'19			5874 Jun 29 16:42	0° 	
retrograde	5873 Aug 08 23:01	7°  24'22		evening max el	5874 Jul 08 08:08	11°  01'25	21°27'44
evening set	5873 Aug 12 16:02	6°  54'20		desc. node	5874 Jul 19 00:05	17°  08'34	
min. Earth dist.	5873 Aug 19 23:02	3°  37'07	0.55436 AU	retrograde	5874 Jul 20 13:34	17°  01'42	
inferior conj	5873 Aug 21 13:49	2°  41'03	-4°59'40	evening set	5874 Jul 23 00:18	17°  00'40	
minimum elong	5873 Aug 21 07:30	2°  50'12	4°58'44	inferior conj	5874 Aug 01 08:06	13°  01'06	-3°44'51
	5873 Aug 26 15:31	30°  08'00		minimum elong	5874 Jul 31 23:08	13°  01'34	3°42'16
morning rise	5873 Aug 30 01:11	28°  05'02		min. Earth dist.	5874 Aug 01 08:46	13°  00'11	0.54778 AU
direct	5873 Sep 02 01:07	28°  02'09		morning rise	5874 Aug 09 22:57	9°  08'22	
	5873 Sep 08 00:39	0° 		direct	5874 Aug 13 10:30	8°  04'20	
morning max el	5873 Sep 12 23:23	3°  34'28	20°39'41	morning max el	5874 Aug 25 22:03	14°  35'34	22°13'36
asc. node	5873 Sep 22 03:35	15°  25'45			5874 Sep 06 14:58	0° 	
	5873 Sep 30 00:59	0° 		asc. node	5874 Sep 09 00:39	4°  12'06	
morning set	5873 Oct 02 01:14	4°  05'41		morning set	5874 Sep 16 11:26	18°  55'01	
					5874 Sep 21 16:36	0° 	
superior conj	5873 Oct 09 12:51	19°  34'29	1°41'59	superior conj	5874 Sep 23 14:41	4°  04'34	1°42'19
minimum elong	5873 Oct 09 13:39	19°  38'32	1°41'58	minimum elong	5874 Sep 23 14:07	4°  01'34	1°42'19
max. Earth dist.	5873 Oct 14 12:12	29°  29'59	1.36029 AU	max. Earth dist.	5874 Sep 27 03:17	11°  25'19	1.34363 AU
	5873 Oct 14 18:23	0° 		evening rise	5874 Oct 01 16:06	20°  28'37	
evening rise	5873 Oct 18 11:20	7°  01'37			5874 Oct 06 18:04	0° 	
desc. node	5873 Oct 28 02:16	23°  00'47		desc. node	5874 Oct 14 23:17	13°  00'58	
	5873 Oct 31 23:37	0° 			5874 Oct 25 22:21	0° 	
evening max el	5873 Nov 23 01:46	28°  42'47	26°11'44	evening max el	5874 Nov 05 14:31	12°  41'58	27°01'05
	5873 Nov 24 10:42	0° 		retrograde	5874 Nov 18 20:36	19°  43'06	
retrograde	5873 Dec 05 18:02	5°  52'57		evening set	5874 Nov 25 14:31	16°  47'56	
evening set	5873 Dec 12 00:20	3°  19'30		min. Earth dist.	5874 Nov 29 13:13	13°  06'50	0.65448 AU
	5873 Dec 15 07:00	30°  08'00		inferior conj	5874 Dec 01 14:14	10°  47'26	-1°29'09
min. Earth dist.	5873 Dec 16 05:22	28°  53'16	0.66668 AU	minimum elong	5874 Dec 01 16:48	10°  40'06	1°28'04
inferior conj	5873 Dec 17 18:37	26°  58'37	-0°27'25	asc. node	5874 Dec 05 23:55	6°  42'03	
minimum elong	5873 Dec 17 19:21	26°  56'20	0°27'04				

morning rise	5874 Dec 07 20:09	5°♂11'39		minimum elong	5875 Nov 15 05:47	24°♂11'34	2°32'02
direct	5874 Dec 10 13:40	4°♂31'20		morning rise	5875 Nov 21 18:13	19°♂02'44	
morning max el	5874 Dec 17 01:09	7°♂59'12	18°08'48	asc. node	5875 Nov 22 20:57	18°♂41'48	
	5875 Jan 01 05:08	0°♂		direct	5875 Nov 24 05:16	18°♂32'44	
morning set	5875 Jan 04 12:36	5°♂25'01		morning max el	5875 Nov 30 18:04	21°♂57'23	17°51'08
desc. node	5875 Jan 10 22:34	15°♂50'44			5875 Dec 06 23:20	0°♂	
				morning set	5875 Dec 17 10:53	17°♂26'06	
superior conj	5875 Jan 19 06:50	29°♂09'12	-0°56'10		5875 Dec 24 20:31	0°♂	
minimum elong	5875 Jan 19 00:00	28°♂42'16	0°55'16	desc. node	5875 Dec 28 19:33	6°♂33'39	
	5875 Jan 19 19:43	0°♂					
max. Earth dist.	5875 Jan 22 00:53	3°♂29'09	1.45279 AU	superior conj	5875 Dec 30 04:42	8°♂49'13	-0°09'46
evening rise	5875 Feb 04 12:50	24°♂31'44		minimum elong	5875 Dec 30 03:37	8°♂44'46	0°09'34
	5875 Feb 08 01:29	0°♂		behind sun begin	5875 Dec 29 19:35	8°♂12'02	
greatest brilliancy	5875 Feb 17 02:38	13°♂52'54	-0.7m	behind sun end	5875 Dec 30 11:38	9°♂17'26	
evening max el	5875 Mar 01 01:34	29°♂53'05	19°30'56	max. Earth dist.	5876 Jan 04 19:04	17°♂49'47	1.44545 AU
	5875 Mar 01 04:17	0°♂			5876 Jan 12 13:27	0°♂	
asc. node	5875 Mar 03 23:10	2°♂25'00		evening rise	5876 Jan 15 00:05	3°♂45'58	
retrograde	5875 Mar 08 07:17	4°♂02'20			5876 Feb 01 13:47	0°♂	
evening set	5875 Mar 11 20:53	2°♂47'52		evening max el	5876 Feb 12 03:44	13°♂27'34	20°31'18
	5875 Mar 14 20:02	30°♂		asc. node	5876 Feb 18 20:12	18°♂01'50	
inferior conj	5875 Mar 17 07:34	26°♂53'01	3°19'38	retrograde	5876 Feb 20 05:35	18°♂12'07	
minimum elong	5875 Mar 17 06:03	26°♂58'02	3°19'25	evening set	5876 Feb 24 03:58	16°♂43'04	
min. Earth dist.	5875 Mar 18 12:44	25°♂17'12	0.66732 AU	inferior conj	5876 Feb 29 12:20	10°♂35'22	2°57'39
morning rise	5875 Mar 22 14:55	20°♂37'25		minimum elong	5876 Feb 29 10:09	10°♂42'50	2°57'11
direct	5875 Mar 28 18:25	17°♂53'17		min. Earth dist.	5876 Mar 01 03:46	9°♂42'33	0.67622 AU
desc. node	5875 Apr 08 21:54	24°♂04'18		morning rise	5876 Mar 05 16:06	4°♂20'53	
morning max el	5875 Apr 10 03:20	25°♂16'45	25°45'37	direct	5876 Mar 11 06:24	1°♂51'11	
	5875 Apr 14 10:28	0°♂		morning max el	5876 Mar 22 11:57	8°♂34'23	24°20'41
	5875 May 05 12:31	0°♂		desc. node	5876 Mar 25 18:53	12°♂08'04	
morning set	5875 May 16 07:36	18°♂38'19			5876 Apr 08 07:45	0°♂	
max. Earth dist.	5875 May 20 02:33	25°♂43'36	1.35746 AU	morning set	5876 Apr 27 07:48	0°♂17'51	
	5875 May 22 07:40	0°♂			5876 Apr 27 03:42	0°♂	
				max. Earth dist.	5876 Apr 30 23:32	6°♂46'45	1.37782 AU
superior conj	5875 May 25 17:28	6°♂45'36	-0°51'14				
minimum elong	5875 May 25 20:22	7°♂00'10	0°50'42	superior conj	5876 May 07 23:17	19°♂48'42	-1°20'51
asc. node	5875 May 30 22:25	17°♂23'23		minimum elong	5876 May 08 03:48	20°♂10'27	1°20'12
evening rise	5875 Jun 02 16:39	23°♂03'31			5876 May 13 04:17	0°♂	
	5875 Jun 06 03:32	0°♂		evening rise	5876 May 16 17:12	7°♂01'20	
evening max el	5875 Jun 20 13:47	22°♂14'30	20°08'08	asc. node	5876 May 16 19:26	7°♂12'26	
retrograde	5875 Jul 01 03:39	27°♂25'35			5876 May 29 20:39	0°♂	
evening set	5875 Jul 03 01:37	27°♂16'07		evening max el	5876 Jun 02 07:55	4°♂00'22	19°08'04
desc. node	5875 Jul 05 21:07	26°♂30'36		retrograde	5876 Jun 11 05:16	8°♂21'46	
inferior conj	5875 Jul 12 03:35	23°♂17'13	-1°52'40	evening set	5876 Jun 13 04:46	8°♂09'43	
minimum elong	5875 Jul 11 22:20	23°♂25'02	1°50'44	inferior conj	5876 Jun 21 13:32	3°♂58'04	0°03'26
min. Earth dist.	5875 Jul 13 20:41	22°♂16'04	0.55081 AU	minimum elong	5876 Jun 21 13:41	3°♂57'50	0°03'20
morning rise	5875 Jul 20 17:33	19°♂01'23		transit middle	5876 Jun 21 13:41	3°♂57'50	0°03'20
direct	5875 Jul 24 21:50	18°♂23'23		transit begin	5876 Jun 21 09:58	4°♂04'09	
morning max el	5875 Aug 07 13:04	25°♂04'06	23°57'33	transit end	5876 Jun 21 17:24	3°♂51'29	
	5875 Aug 12 03:18	0°♂		desc. node	5876 Jun 21 18:09	3°♂50'13	
asc. node	5875 Aug 26 21:41	23°♂27'56		min. Earth dist.	5876 Jun 24 11:25	1°♂59'58	0.56296 AU
	5875 Aug 30 03:40	0°♂			5876 Jun 27 20:32	30°♂	
morning set	5875 Aug 31 23:04	3°♂47'18		morning rise	5876 Jun 29 19:26	29°♂07'11	
				direct	5876 Jul 04 21:30	28°♂06'54	
superior conj	5875 Sep 07 22:01	18°♂49'37	1°36'21		5876 Jul 11 21:53	0°♂	
minimum elong	5875 Sep 07 20:26	18°♂41'04	1°36'15	morning max el	5876 Jul 19 02:38	5°♂23'58	25°37'17
max. Earth dist.	5875 Sep 10 02:51	23°♂34'05	1.33109 AU		5876 Aug 05 22:26	0°♂	
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evening rise	5875 Sep 15 08:38	4°♂28'24		morning set	5876 Aug 15 10:29	18°♂37'13	
	5875 Sep 29 10:51	0°♂			5876 Aug 20 16:13	0°♂	
desc. node	5875 Oct 01 20:19	3°♂45'47					
evening max el	5875 Oct 19 02:14	25°♂36'32	27°25'55	superior conj	5876 Aug 22 08:31	3°♂41'54	1°24'54
	5875 Oct 24 12:07	0°♂		minimum elong	5876 Aug 22 06:21	3°♂30'01	1°24'38
retrograde	5875 Nov 01 17:08	2°♂54'45		max. Earth dist.	5876 Aug 23 09:32	5°♂59'21	1.32290 AU
evening set	5875 Nov 08 18:54	0°♂18'16		evening rise	5876 Aug 29 09:36	18°♂51'15	
	5875 Nov 09 04:35	30°♂			5876 Sep 04 00:01	0°♂	
min. Earth dist.	5875 Nov 12 12:25	27°♂00'07	0.63886 AU	desc. node	5876 Sep 17 17:21	22°♂58'26	
inferior conj	5875 Nov 15 01:13	24°♂23'22	-2°33'47		5876 Sep 22 21:45	0°♂	























































































































evening max el	5876 Sep 30 10:57	8°♍23'01	27°20'21	retrograde	5877 Sep 26 11:43	27°♎33'42	
retrograde	5876 Oct 14 06:37	15°♍36'37		evening set	5877 Oct 03 07:33	25°♎35'57	
evening set	5876 Oct 21 10:05	13°♍13'41		min. Earth dist.	5877 Oct 07 03:37	23°♎00'01	0.59988 AU
min. Earth dist.	5876 Oct 25 01:26	10°♍22'26	0.62030 AU	inferior conj	5877 Oct 10 08:57	20°♎25'05	-4°34'44
inferior conj	5876 Oct 28 00:37	7°♍39'14	-3°37'46	minimum elong	5877 Oct 10 15:18	20°♎12'19	4°33'19
minimum elong	5876 Oct 28 06:48	7°♍25'02	3°35'49	morning rise	5877 Oct 18 01:07	15°♎44'33	
morning rise	5876 Nov 04 05:24	2°♍37'00		direct	5877 Oct 20 08:32	15°♎24'49	
direct	5876 Nov 06 12:55	2°♍13'41		asc. node	5877 Oct 26 14:59	17°♎58'35	
asc. node	5876 Nov 08 17:58	2°♍35'43		morning max el	5877 Oct 27 22:00	19°♎07'48	18°11'12
morning max el	5876 Nov 13 10:08	5°♍43'21	17°51'31		5877 Nov 04 21:01	0°♍	
morning set	5876 Nov 29 06:24	0°♌28'26		morning set	5877 Nov 12 16:58	14°♍12'53	
	5876 Nov 29 00:05	0°♌			5877 Nov 21 04:13	0°♌	
superior conj	5876 Dec 10 04:32	19°♌45'20	0°31'52	superior conj	5877 Nov 22 05:09	1°♌53'00	1°04'02
minimum elong	5876 Dec 10 07:18	19°♌57'11	0°31'29	minimum elong	5877 Nov 22 08:58	2°♌10'13	1°03'34
desc. node	5876 Dec 14 16:34	27°♌20'20		max. Earth dist.	5877 Nov 29 20:37	15°♌14'44	1.41327 AU
	5876 Dec 16 07:16	0°♎		desc. node	5877 Dec 01 13:36	18°♌06'43	
max. Earth dist.	5876 Dec 17 10:12	1°♎50'08	1.43176 AU	evening rise	5877 Dec 04 19:59	23°♌29'01	
evening rise	5876 Dec 24 13:57	13°♎14'43			5877 Dec 08 21:55	0°♎	
	5877 Jan 04 14:50	0°♎			5877 Dec 29 14:37	0°♎	
evening max el	5877 Jan 25 00:35	27°♎04'12	21°43'03	evening max el	5878 Jan 07 16:52	10°♎42'58	23°01'38
	5877 Jan 28 06:41	0°♏		retrograde	5878 Jan 17 22:12	16°♎46'32	
retrograde	5877 Feb 03 03:04	2°♏28'15		evening set	5878 Jan 22 18:45	14°♎46'33	
asc. node	5877 Feb 04 17:13	2°♏14'53		asc. node	5878 Jan 22 14:15	14°♎55'48	
evening set	5877 Feb 07 11:47	0°♏43'55		inferior conj	5878 Jan 28 03:59	8°♎22'08	1°46'31
	5877 Feb 08 07:43	30°♏		minimum elong	5878 Jan 28 01:53	8°♎29'23	1°45'48
inferior conj	5877 Feb 12 19:47	24°♎26'09	2°26'11	min. Earth dist.	5878 Jan 27 19:22	8°♎51'50	0.68176 AU
minimum elong	5877 Feb 12 17:25	24°♎34'24	2°25'31	morning rise	5878 Feb 02 08:56	2°♎14'38	
min. Earth dist.	5877 Feb 12 22:44	24°♎15'53	0.68099 AU	direct	5878 Feb 06 18:29	0°♎28'14	
morning rise	5877 Feb 17 22:51	18°♎14'26		morning max el	5878 Feb 15 11:53	5°♎31'59	21°25'57
direct	5877 Feb 22 22:47	16°♎05'09		desc. node	5878 Feb 27 12:53	20°♎34'01	
morning max el	5877 Mar 04 21:34	21°♎58'26	22°51'10		5878 Mar 06 02:04	0°♏	
	5877 Mar 11 20:16	0°♏		morning set	5878 Mar 19 01:04	19°♏48'45	
desc. node	5877 Mar 12 15:52	1°♏02'47			5878 Mar 25 08:46	0°♏	
	5877 Apr 01 15:12	0°♏		max. Earth dist.	5878 Mar 25 20:20	0°♏47'35	1.42101 AU
morning set	5877 Apr 08 06:36	10°♏42'53		superior conj	5878 Apr 02 07:17	13°♏22'43	-2°04'51
max. Earth dist.	5877 Apr 12 19:13	18°♏20'18	1.39997 AU	minimum elong	5878 Apr 02 10:52	13°♏38'10	2°04'42
	5877 Apr 19 10:01	0°♐			5878 Apr 11 15:42	0°♐	
superior conj	5877 Apr 20 13:31	2°♐04'56	-1°46'50	evening rise	5878 Apr 13 10:57	3°♐16'35	
minimum elong	5877 Apr 20 18:43	2°♐28'41	1°46'20	asc. node	5878 Apr 20 13:30	15°♐59'28	
evening rise	5877 Apr 30 08:33	20°♐28'43		evening max el	5878 Apr 29 21:44	29°♐16'44	18°08'46
asc. node	5877 May 03 16:27	26°♐46'21			5878 Apr 30 16:16	0°♑	
	5877 May 05 10:24	0°♑		retrograde	5878 May 06 16:28	2°♑43'05	
evening max el	5877 May 16 11:46	16°♑24'11	18°28'24	evening set	5878 May 09 05:31	2°♑14'27	
retrograde	5877 May 24 01:48	20°♑09'47			5878 May 13 00:11	30°♑	
evening set	5877 May 26 07:53	19°♑50'52		inferior conj	5878 May 16 00:33	27°♑22'22	2°40'18
inferior conj	5877 Jun 02 20:36	15°♑19'27	1°37'05	minimum elong	5878 May 16 03:45	27°♑14'55	2°39'33
minimum elong	5877 Jun 02 23:39	15°♑13'23	1°36'05	min. Earth dist.	5878 May 19 07:47	24°♑19'59	0.60347 AU
min. Earth dist.	5877 Jun 06 06:16	12°♑38'06	0.58168 AU	morning rise	5878 May 22 23:32	21°♑32'01	
desc. node	5877 Jun 08 15:10	10°♑58'38		desc. node	5878 May 26 12:10	19°♑53'49	
morning rise	5877 Jun 10 12:11	9°♑54'25		direct	5878 May 29 13:02	19°♑27'14	
direct	5877 Jun 16 11:09	8°♑22'59		morning max el	5878 Jun 12 20:49	27°♑22'25	27°43'33
morning max el	5877 Jun 30 20:22	16°♑03'35	26°56'44		5878 Jun 15 09:02	0°♑	
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	5877 Jul 29 05:43	0°♒		morning set	5878 Jul 15 02:09	17°♒50'13	
morning set	5877 Jul 30 20:05	3°♒19'57		asc. node	5878 Jul 17 12:45	22°♒58'44	
asc. node	5877 Jul 30 15:43	2°♒56'55			5878 Jul 20 18:31	0°♒	
				max. Earth dist.	5878 Jul 21 06:58	1°♒08'19	1.31931 AU
superior conj	5877 Aug 06 20:17	18°♒35'10	1°08'36	superior conj	5878 Jul 22 07:35	3°♒23'49	0°47'58
minimum elong	5877 Aug 06 18:00	18°♒22'34	1°08'12	minimum elong	5878 Jul 22 05:40	3°♒13'14	0°47'33
max. Earth dist.	5877 Aug 06 20:10	18°♒34'34	1.31900 AU	evening rise	5878 Jul 29 02:32	18°♒14'34	
	5877 Aug 12 01:10	0°♓			5878 Aug 03 20:32	0°♓	
evening rise	5877 Aug 13 16:19	3°♓28'59		desc. node	5878 Aug 22 11:26	28°♓39'03	
	5877 Aug 27 19:46	0°♓			5878 Aug 23 17:34	0°♓	
desc. node	5877 Sep 04 14:24	11°♓22'37		evening max el	5878 Aug 25 08:44	1°♓37'41	25°30'33
evening max el	5877 Sep 12 13:46	20°♓25'16	26°41'05				

retrograde	5878 Sep 08 07:11	8° $\Omega$ 41'54		desc. node	5879 Aug 09 08:28	14° $\mathbb{N}$ 19'55	
evening set	5878 Sep 14 06:36	7° $\Omega$ 18'53		retrograde	5879 Aug 20 15:13	19° $\mathbb{N}$ 03'13	
min. Earth dist.	5878 Sep 18 20:33	4° $\Omega$ 40'49	0.57945 AU	evening set	5879 Aug 25 05:19	18° $\mathbb{N}$ 16'45	
inferior conj	5878 Sep 21 22:51	2° $\Omega$ 31'41	-5°13'41	min. Earth dist.	5879 Aug 31 08:02	15° $\mathbb{N}$ 17'45	0.56181 AU
minimum elong	5878 Sep 22 02:27	2° $\Omega$ 25'25	5°13'21	inferior conj	5879 Sep 02 16:27	13° $\mathbb{N}$ 51'27	-5°18'44
	5878 Sep 25 20:16	30° $\mathbb{R}$ $\mathbb{N}$		minimum elong	5879 Sep 02 13:55	13° $\mathbb{N}$ 55'20	5°18'36
morning rise	5878 Sep 30 00:35	28° $\mathbb{N}$ 14'31		morning rise	5879 Sep 11 00:58	9° $\mathbb{N}$ 54'01	
direct	5878 Oct 02 11:39	27° $\mathbb{N}$ 55'55		direct	5879 Sep 13 19:06	9° $\mathbb{N}$ 34'31	
	5878 Oct 08 14:37	0° $\Omega$		morning max el	5879 Sep 23 19:53	14° $\mathbb{N}$ 15'27	19°54'03
morning max el	5878 Oct 11 02:19	2° $\Omega$ 02'02	18°51'38	asc. node	5879 Sep 30 09:04	22° $\mathbb{N}$ 15'59	
asc. node	5878 Oct 13 12:01	4° $\Omega$ 37'21			5879 Oct 05 01:09	0° $\Omega$	
morning set	5878 Oct 27 13:57	28° $\Omega$ 26'26		morning set	5879 Oct 11 17:59	12° $\Omega$ 59'03	
	5878 Oct 28 09:01	0° $\mathbb{N}$					
superior conj	5878 Nov 05 01:36	14° $\mathbb{N}$ 58'20	1°25'57	superior conj	5879 Oct 19 12:39	28° $\Omega$ 45'51	1°38'30
minimum elong	5878 Nov 05 04:42	15° $\mathbb{N}$ 13'02	1°25'40	minimum elong	5879 Oct 19 14:20	28° $\Omega$ 54'10	1°38'25
max. Earth dist.	5878 Nov 12 02:33	27° $\mathbb{N}$ 55'33	1.39229 AU		5879 Oct 20 03:34	0° $\mathbb{N}$	
	5878 Nov 13 06:44	0° $\mathbb{A}$		max. Earth dist.	5879 Oct 25 07:46	10° $\mathbb{N}$ 00'22	1.37136 AU
evening rise	5878 Nov 16 00:19	4° $\mathbb{A}$ 43'41		evening rise	5879 Oct 29 02:26	16° $\mathbb{N}$ 57'25	
desc. node	5878 Nov 18 10:38	8° $\mathbb{A}$ 49'22		desc. node	5879 Nov 05 07:41	29° $\mathbb{N}$ 23'56	
	5878 Dec 02 00:52	0° $\mathbb{B}$			5879 Nov 05 16:27	0° $\mathbb{A}$	
evening max el	5878 Dec 21 06:21	24° $\mathbb{B}$ 24'55	24°21'12	evening max el	5879 Nov 26 10:54	0° $\mathbb{B}$	
	5878 Dec 28 12:28	0° $\approx$			5879 Dec 03 18:59	8° $\mathbb{B}$ 09'27	25°34'58
retrograde	5879 Jan 01 13:54	1° $\approx$ 02'44		retrograde	5879 Dec 16 01:09	15° $\mathbb{B}$ 11'41	
	5879 Jan 05 06:58	30° $\mathbb{R}$ $\mathbb{B}$		evening set	5879 Dec 21 23:51	12° $\mathbb{B}$ 44'00	
evening set	5879 Jan 06 23:19	28° $\mathbb{B}$ 47'50		min. Earth dist.	5879 Dec 26 08:43	7° $\mathbb{B}$ 57'26	0.67204 AU
asc. node	5879 Jan 09 11:17	26° $\mathbb{B}$ 13'28		asc. node	5879 Dec 27 08:20	6° $\mathbb{B}$ 41'59	
min. Earth dist.	5879 Jan 11 15:27	23° $\mathbb{B}$ 26'52	0.67872 AU	inferior conj	5879 Dec 27 15:27	6° $\mathbb{B}$ 19'10	0°06'02
inferior conj	5879 Jan 12 11:08	22° $\mathbb{B}$ 20'48	0°59'32	minimum elong	5879 Dec 27 15:17	6° $\mathbb{B}$ 19'40	0°05'59
minimum elong	5879 Jan 12 09:47	22° $\mathbb{B}$ 25'21	0°59'01	transit middle	5879 Dec 27 15:17	6° $\mathbb{B}$ 19'40	0°05'59
morning rise	5879 Jan 17 20:21	16° $\mathbb{B}$ 19'09		transit begin	5879 Dec 27 12:41	6° $\mathbb{B}$ 28'02	
direct	5879 Jan 21 16:27	14° $\mathbb{B}$ 55'05		transit end	5879 Dec 27 17:54	6° $\mathbb{B}$ 11'20	
morning max el	5879 Jan 29 09:38	19° $\mathbb{B}$ 17'42	20°11'21	morning rise	5880 Jan 02 07:07	0° $\mathbb{B}$ 25'21	
	5879 Feb 07 02:31	0° $\approx$			5880 Jan 03 00:53	30° $\mathbb{R}$ $\mathbb{A}$	
desc. node	5879 Feb 14 09:54	10° $\approx$ 31'46		direct	5880 Jan 05 15:19	29° $\mathbb{A}$ 21'05	
morning set	5879 Feb 25 23:32	28° $\approx$ 04'11			5880 Jan 08 08:09	0° $\mathbb{B}$	
	5879 Feb 27 05:28	0° $\mathbb{H}$		morning max el	5880 Jan 12 15:15	3° $\mathbb{B}$ 13'54	19°11'01
max. Earth dist.	5879 Mar 08 04:49	14° $\mathbb{H}$ 07'40	1.43819 AU	greatest brilliancy	5880 Jan 26 05:33	21° $\mathbb{B}$ 31'44	-0.7m
					5880 Jan 31 18:18	0° $\approx$	
superior conj	5879 Mar 14 00:25	23° $\mathbb{H}$ 33'46	-2°09'17	desc. node	5880 Feb 01 06:56	0° $\approx$ 48'46	
minimum elong	5879 Mar 13 22:57	23° $\mathbb{H}$ 27'45	2°09'15	morning set	5880 Feb 05 00:54	6° $\approx$ 37'03	
	5879 Mar 17 21:30	0° $\mathbb{Y}$		max. Earth dist.	5880 Feb 18 19:25	28° $\approx$ 06'58	1.44949 AU
evening rise	5879 Mar 26 19:58	15° $\mathbb{Y}$ 15'32			5880 Feb 20 00:05	0° $\mathbb{H}$	
	5879 Apr 04 10:47	0° $\mathbb{B}$		superior conj	5880 Feb 21 17:28	2° $\mathbb{H}$ 43'37	-1°54'57
asc. node	5879 Apr 07 10:32	4° $\mathbb{B}$ 44'44		minimum elong	5880 Feb 21 09:42	2° $\mathbb{H}$ 12'53	1°54'25
evening max el	5879 Apr 13 10:29	12° $\mathbb{B}$ 29'17	18°08'28	evening rise	5880 Mar 07 07:23	26° $\mathbb{H}$ 18'13	
retrograde	5879 Apr 19 20:51	15° $\mathbb{B}$ 51'21			5880 Mar 09 13:10	0° $\mathbb{Y}$	
evening set	5879 Apr 22 16:29	15° $\mathbb{B}$ 11'12		asc. node	5880 Mar 24 07:36	22° $\mathbb{Y}$ 53'42	
inferior conj	5879 Apr 28 21:49	9° $\mathbb{B}$ 59'39	3°16'00	evening max el	5880 Mar 26 23:03	25° $\mathbb{Y}$ 54'45	18°26'49
minimum elong	5879 Apr 28 23:47	9° $\mathbb{B}$ 54'28	3°15'44	retrograde	5880 Apr 02 10:33	29° $\mathbb{Y}$ 25'53	
min. Earth dist.	5879 May 01 17:59	7° $\mathbb{B}$ 00'29	0.62527 AU	evening set	5880 Apr 05 12:42	28° $\mathbb{Y}$ 33'00	
morning rise	5879 May 05 05:33	3° $\mathbb{B}$ 54'17		inferior conj	5880 Apr 11 08:16	23° $\mathbb{Y}$ 03'25	3°29'55
direct	5879 May 12 01:18	1° $\mathbb{B}$ 22'20		minimum elong	5880 Apr 11 08:39	23° $\mathbb{Y}$ 02'15	3°29'53
desc. node	5879 May 13 09:13	1° $\mathbb{B}$ 27'42		min. Earth dist.	5880 Apr 13 13:32	20° $\mathbb{Y}$ 27'38	0.64470 AU
morning max el	5879 May 26 03:04	9° $\mathbb{B}$ 23'50	27°52'24	morning rise	5880 Apr 17 03:49	16° $\mathbb{Y}$ 50'53	
	5879 Jun 11 02:26	0° $\mathbb{I}$		direct	5880 Apr 23 21:52	14° $\mathbb{Y}$ 03'51	
	5879 Jun 28 02:34	0° $\mathbb{G}$		desc. node	5880 Apr 29 06:14	15° $\mathbb{Y}$ 31'21	
morning set	5879 Jun 29 02:31	2° $\mathbb{G}$ 00'27		morning max el	5880 May 07 12:30	22° $\mathbb{Y}$ 00'52	27°25'04
asc. node	5879 Jul 04 09:47	13° $\mathbb{G}$ 04'58			5880 May 14 12:11	0° $\mathbb{B}$	
max. Earth dist.	5879 Jul 04 13:45	13° $\mathbb{G}$ 26'17	1.32400 AU		5880 Jun 03 07:14	0° $\mathbb{I}$	
				morning set	5880 Jun 11 18:37	15° $\mathbb{I}$ 43'23	
superior conj	5879 Jul 06 16:36	18° $\mathbb{G}$ 01'06	0°23'31	max. Earth dist.	5880 Jun 16 12:40	25° $\mathbb{I}$ 18'03	1.33336 AU
minimum elong	5879 Jul 06 15:31	17° $\mathbb{G}$ 55'13	0°23'15		5880 Jun 18 18:38	0° $\mathbb{G}$	
	5879 Jul 12 04:34	0° $\Omega$		superior conj	5880 Jun 19 21:24	2° $\mathbb{G}$ 21'43	-0°04'05
evening rise	5879 Jul 13 14:12	3° $\Omega$ 00'31		minimum elong	5880 Jun 19 21:37	2° $\mathbb{G}$ 22'50	0°04'03
	5879 Jul 28 03:17	0° $\mathbb{N}$		behind sun begin	5880 Jun 19 16:18	1° $\mathbb{G}$ 54'36	
evening max el	5879 Aug 06 21:35	12° $\mathbb{N}$ 08'58	23°58'37				

behind sun end	5880 Jun 20 02:56	2°♄51'07		minimum elong	5881 Jun 03 21:33	16°♄28'17	0°33'24
asc. node	5880 Jun 20 06:51	3°♄11'56		asc. node	5881 Jun 07 03:54	23°♄15'16	
evening rise	5880 Jun 27 01:33	17°♄41'31			5881 Jun 10 09:16	0°♄	
	5880 Jul 03 03:36	0°♄		evening rise	5881 Jun 11 10:32	2°♄11'20	
evening max el	5880 Jul 18 11:16	22°♄28'22	22°20'44		5881 Jun 27 12:54	0°♄	
desc. node	5880 Jul 26 05:30	27°♄52'11		evening max el	5881 Jun 30 09:48	3°♄09'02	20°51'38
retrograde	5880 Jul 31 10:41	28°♄55'17		retrograde	5881 Jul 11 22:54	8°♄50'03	
evening set	5880 Aug 03 12:46	28°♄34'16		desc. node	5881 Jul 13 02:30	8°♄46'51	
min. Earth dist.	5880 Aug 11 17:50	25°♄00'20	0.55043 AU	evening set	5881 Jul 14 02:11	8°♄39'09	
inferior conj	5880 Aug 12 16:36	24°♄28'12	-4°34'08	inferior conj	5881 Jul 23 09:27	4°♄42'08	-2°59'57
minimum elong	5880 Aug 12 08:19	24°♄39'54	4°32'23	minimum elong	5881 Jul 23 01:27	4°♄53'29	2°57'18
morning rise	5880 Aug 21 05:40	20°♄38'41		min. Earth dist.	5881 Jul 24 04:12	4°♄15'33	0.54791 AU
direct	5880 Aug 24 09:59	20°♄15'51		morning rise	5881 Aug 01 00:40	0°♄41'59	
morning max el	5880 Sep 05 00:59	25°♄41'49	21°17'41	direct	5881 Aug 04 18:57	0°♄11'37	
	5880 Sep 09 00:40	0°♄		morning max el	5881 Aug 17 19:28	6°♄25'48	22°57'22
asc. node	5880 Sep 16 06:07	10°♄40'49		asc. node	5881 Sep 03 03:09	29°♄40'54	
morning set	5880 Sep 25 02:31	27°♄43'45			5881 Sep 03 07:13	0°♄	
	5880 Sep 26 04:39	0°♄		morning set	5881 Sep 09 13:32	12°♄35'01	
superior conj	5880 Oct 02 10:03	13°♄03'02	1°42'57	superior conj	5881 Sep 16 14:30	27°♄40'20	1°40'30
minimum elong	5880 Oct 02 10:14	13°♄03'59	1°42'58	minimum elong	5881 Sep 16 13:27	27°♄34'45	1°40'28
max. Earth dist.	5880 Oct 06 18:06	21°♄52'32	1.35274 AU		5881 Sep 17 16:42	0°♄	
evening rise	5880 Oct 10 22:42	0°♄01'00		max. Earth dist.	5881 Sep 19 13:03	3°♄53'45	1.33778 AU
	5880 Oct 10 22:29	0°♄		evening rise	5881 Sep 24 08:56	13°♄43'26	
desc. node	5880 Oct 22 04:43	19°♄45'23			5881 Oct 03 03:38	0°♄	
	5880 Oct 28 19:32	0°♄		desc. node	5881 Oct 09 01:45	9°♄47'30	
evening max el	5880 Nov 15 07:57	21°♄51'57	26°35'25		5881 Oct 23 18:37	0°♄	
retrograde	5880 Nov 28 07:05	29°♄06'49		evening max el	5881 Oct 28 20:44	5°♄22'59	27°15'09
evening set	5880 Dec 04 18:26	26°♄30'25		retrograde	5881 Nov 11 06:57	12°♄41'04	
min. Earth dist.	5880 Dec 08 20:45	22°♄18'55	0.66187 AU	evening set	5881 Nov 18 04:47	10°♄02'11	
inferior conj	5880 Dec 10 14:53	20°♄13'07	-0°53'06	min. Earth dist.	5881 Nov 22 01:12	6°♄25'25	0.64824 AU
minimum elong	5880 Dec 10 16:22	20°♄08'41	0°52'27	inferior conj	5881 Nov 24 07:11	3°♄57'54	-1°56'21
asc. node	5880 Dec 13 05:23	17°♄15'26		minimum elong	5881 Nov 24 10:36	3°♄48'32	1°54'57
morning rise	5880 Dec 16 15:04	14°♄29'41			5881 Nov 28 07:38	30°♄	
direct	5880 Dec 19 13:21	13°♄41'39		asc. node	5881 Nov 30 02:24	28°♄47'01	
morning max el	5880 Dec 26 03:15	17°♄15'43	18°26'39	morning rise	5881 Nov 30 17:38	28°♄27'55	
	5881 Jan 04 16:54	0°♄		direct	5881 Dec 03 08:11	27°♄52'19	
morning set	5881 Jan 15 02:28	16°♄26'18			5881 Dec 08 08:55	0°♄	
desc. node	5881 Jan 18 03:56	21°♄19'08		morning max el	5881 Dec 09 19:14	1°♄17'35	17°59'09
	5881 Jan 23 15:21	0°♄		morning set	5881 Dec 27 09:44	27°♄44'25	
superior conj	5881 Jan 30 21:09	11°♄23'21	-1°21'26		5881 Dec 28 18:17	0°♄	
minimum elong	5881 Jan 30 12:02	10°♄47'35	1°20'24	desc. node	5882 Jan 05 00:58	11°♄59'01	
max. Earth dist.	5881 Jan 31 14:00	12°♄29'23	1.45378 AU	superior conj	5882 Jan 10 07:26	20°♄28'15	-0°36'25
	5881 Feb 11 17:56	0°♄		minimum elong	5882 Jan 10 03:02	20°♄10'42	0°35'46
evening rise	5881 Feb 15 19:24	6°♄24'05		max. Earth dist.	5882 Jan 14 09:51	26°♄58'26	1.45061 AU
greatest brilliancy	5881 Feb 25 15:25	21°♄53'15	-0.8m		5882 Jan 16 08:02	0°♄	
	5881 Mar 02 23:57	0°♄		evening rise	5882 Jan 26 12:35	15°♄49'33	
evening max el	5881 Mar 10 08:56	9°♄26'20	19°02'51		5882 Feb 04 19:02	0°♄	
asc. node	5881 Mar 11 04:39	10°♄14'24		greatest brilliancy	5882 Feb 09 17:30	7°♄23'18	-0.6m
retrograde	5881 Mar 17 05:45	13°♄18'20		evening max el	5882 Feb 21 14:16	23°♄00'30	19°54'55
evening set	5881 Mar 20 14:58	12°♄11'51		asc. node	5882 Feb 26 01:40	26°♄33'39	
inferior conj	5881 Mar 26 04:06	6°♄25'46	3°27'11	retrograde	5882 Mar 01 03:38	27°♄23'29	
minimum elong	5881 Mar 26 03:09	6°♄28'45	3°27'06	evening set	5882 Mar 04 20:54	26°♄02'41	
min. Earth dist.	5881 Mar 27 17:49	4°♄26'12	0.66036 AU	inferior conj	5882 Mar 10 06:20	20°♄02'01	3°11'30
morning rise	5881 Mar 31 14:57	0°♄10'41		minimum elong	5882 Mar 10 04:28	20°♄08'15	3°11'12
	5881 Mar 31 19:51	30°♄		min. Earth dist.	5882 Mar 11 05:25	18°♄44'40	0.67173 AU
direct	5881 Apr 07 01:06	27°♄22'07		morning rise	5882 Mar 15 11:50	13°♄46'55	
	5881 Apr 14 02:24	0°♄		direct	5882 Mar 21 09:58	11°♄08'10	
desc. node	5881 Apr 16 03:14	1°♄31'42		morning max el	5882 Apr 02 07:41	18°♄15'14	25°10'37
morning max el	5881 Apr 19 22:28	5°♄01'18	26°28'08	desc. node	5882 Apr 03 00:15	18°♄57'47	
	5881 May 09 00:58	0°♄			5882 Apr 12 04:55	0°♄	
morning set	5881 May 25 23:00	28°♄48'42			5882 May 02 02:05	0°♄	
	5881 May 26 14:06	0°♄		morning set	5882 May 08 11:05	11°♄03'50	
max. Earth dist.	5881 May 30 00:55	6°♄40'17	1.34744 AU	max. Earth dist.	5882 May 12 02:43	17°♄44'32	1.36583 AU
superior conj	5881 Jun 03 19:41	16°♄18'42	-0°33'45	superior conj	5882 May 18 08:31	29°♄44'07	-1°04'02

minimum elong	5882 May 18 12:10	0° $\Pi$ 02'06	1°03'25	superior conj	5883 May 01 08:18	12° $\mathcal{B}$ 28'50	-1°32'33
	5882 May 18 11:44	0° $\Pi$		minimum elong	5883 May 01 13:17	12° $\mathcal{B}$ 52'21	1°31'55
asc. node	5882 May 25 00:55	13° $\Pi$ 10'53			5883 May 10 10:03	0° $\Pi$	
evening rise	5882 May 26 14:57	16° $\Pi$ 23'17		evening rise	5883 May 10 12:04	0° $\Pi$ 09'53	
	5882 Jun 02 16:10	0° $\mathcal{E}$		asc. node	5883 May 11 21:56	2° $\Pi$ 54'26	
evening max el	5882 Jun 12 20:51	14° $\mathcal{E}$ 29'46	19°39'59	evening max el	5883 May 26 19:30	26° $\Pi$ 32'52	18°48'40
retrograde	5882 Jun 22 16:39	19° $\mathcal{E}$ 18'42			5883 May 31 20:06	0° $\mathcal{E}$	
evening set	5882 Jun 24 14:16	19° $\mathcal{E}$ 08'41		retrograde	5883 Jun 04 02:25	0° $\mathcal{E}$ 37'35	
desc. node	5882 Jun 29 23:31	17° $\mathcal{E}$ 07'20		evening set	5883 Jun 06 04:16	0° $\mathcal{E}$ 23'10	
inferior conj	5882 Jul 03 09:42	15° $\mathcal{E}$ 05'14	-1°01'49		5883 Jun 07 11:51	30° $\mathcal{R}$ $\Pi$	
minimum elong	5882 Jul 03 06:53	15° $\mathcal{E}$ 09'40	1°00'47	inferior conj	5883 Jun 14 04:27	26° $\Pi$ 03'22	0°46'43
min. Earth dist.	5882 Jul 05 16:48	13° $\mathcal{E}$ 39'13	0.55498 AU	minimum elong	5883 Jun 14 06:12	26° $\Pi$ 00'10	0°46'04
morning rise	5882 Jul 11 21:13	10° $\mathcal{E}$ 35'35		desc. node	5883 Jun 16 20:32	24° $\Pi$ 06'54	
direct	5882 Jul 16 10:25	9° $\mathcal{E}$ 49'39		min. Earth dist.	5883 Jun 17 09:16	23° $\Pi$ 44'32	0.57025 AU
morning max el	5882 Jul 30 09:00	16° $\mathcal{E}$ 46'39	24°41'39	morning rise	5883 Jun 22 04:44	20° $\Pi$ 56'51	
	5882 Aug 10 02:40	0° $\mathcal{Q}$		direct	5883 Jun 27 15:52	19° $\Pi$ 44'18	
asc. node	5882 Aug 21 00:10	19° $\mathcal{Q}$ 06'38		morning max el	5883 Jul 12 00:09	27° $\Pi$ 13'14	26°14'30
morning set	5882 Aug 25 01:15	27° $\mathcal{Q}$ 26'59			5883 Jul 14 16:43	0° $\mathcal{E}$	
	5882 Aug 26 05:54	0° $\mathcal{M}$			5883 Aug 03 10:45	0° $\mathcal{Q}$	
				asc. node	5883 Aug 07 21:12	8° $\mathcal{Q}$ 51'01	
superior conj	5882 Aug 31 23:23	12° $\mathcal{M}$ 29'01	1°32'08	morning set	5883 Aug 09 12:07	12° $\mathcal{Q}$ 14'49	
minimum elong	5882 Aug 31 21:30	12° $\mathcal{M}$ 18'45	1°31'57				
max. Earth dist.	5882 Sep 02 16:10	16° $\mathcal{M}$ 10'48	1.32705 AU	superior conj	5883 Aug 16 10:40	27° $\mathcal{Q}$ 22'40	1°18'33
evening rise	5882 Sep 08 05:23	27° $\mathcal{M}$ 53'47		minimum elong	5883 Aug 16 08:24	27° $\mathcal{Q}$ 10'10	1°18'13
	5882 Sep 09 06:16	0° $\mathcal{L}$		max. Earth dist.	5883 Aug 17 00:55	28° $\mathcal{Q}$ 41'18	1.32068 AU
desc. node	5882 Sep 25 22:46	29° $\mathcal{L}$ 21'17			5883 Aug 17 15:12	0° $\mathcal{M}$	
	5882 Sep 26 09:07	0° $\mathcal{M}$		evening rise	5883 Aug 23 09:06	12° $\mathcal{M}$ 23'44	
evening max el	5882 Oct 11 07:24	18° $\mathcal{M}$ 28'28	27°27'31		5883 Sep 01 09:34	0° $\mathcal{L}$	
retrograde	5882 Oct 25 00:19	25° $\mathcal{M}$ 44'38		desc. node	5883 Sep 12 19:47	18° $\mathcal{L}$ 15'13	
evening set	5882 Nov 01 03:59	23° $\mathcal{M}$ 12'19			5883 Sep 22 14:26	0° $\mathcal{M}$	
min. Earth dist.	5882 Nov 04 20:00	20° $\mathcal{M}$ 06'56	0.63131 AU	evening max el	5883 Sep 23 13:40	0° $\mathcal{M}$ 56'12	27°07'39
inferior conj	5882 Nov 07 13:35	17° $\mathcal{M}$ 25'55	-3°01'18	retrograde	5883 Oct 07 10:35	8° $\mathcal{M}$ 08'16	
minimum elong	5882 Nov 07 18:56	17° $\mathcal{M}$ 12'46	2°59'23	evening set	5883 Oct 14 12:13	5° $\mathcal{M}$ 54'14	
morning rise	5882 Nov 14 11:34	12° $\mathcal{M}$ 12'53		min. Earth dist.	5883 Oct 18 04:11	3° $\mathcal{M}$ 11'33	0.61176 AU
direct	5882 Nov 16 20:51	11° $\mathcal{M}$ 46'02		inferior conj	5883 Oct 21 06:57	0° $\mathcal{M}$ 29'29	-4°03'21
asc. node	5882 Nov 16 23:25	11° $\mathcal{M}$ 46'06		minimum elong	5883 Oct 21 13:28	0° $\mathcal{M}$ 15'20	4°01'31
morning max el	5882 Nov 23 12:11	15° $\mathcal{M}$ 11'26	17°49'08		5883 Oct 21 20:33	30° $\mathcal{R}$ $\mathcal{L}$	
	5882 Dec 03 20:23	0° $\mathcal{X}$		morning rise	5883 Oct 28 16:47	25° $\mathcal{L}$ 36'30	
morning set	5882 Dec 09 17:50	10° $\mathcal{X}$ 13'54		direct	5883 Oct 30 23:43	25° $\mathcal{L}$ 15'08	
	5882 Dec 21 06:24	0° $\mathcal{Z}$		asc. node	5883 Nov 03 20:27	26° $\mathcal{L}$ 18'39	
				morning max el	5883 Nov 07 02:55	28° $\mathcal{L}$ 49'19	17°57'30
superior conj	5882 Dec 21 16:00	0° $\mathcal{Z}$ 39'54	0°08'53		5883 Nov 08 05:58	0° $\mathcal{M}$	
minimum elong	5882 Dec 21 16:54	0° $\mathcal{Z}$ 43'41	0°08'47	morning set	5883 Nov 22 20:19	23° $\mathcal{M}$ 35'09	
behind sun begin	5882 Dec 21 09:00	0° $\mathcal{Z}$ 10'49			5883 Nov 26 08:17	0° $\mathcal{X}$	
behind sun end	5882 Dec 22 00:49	1° $\mathcal{Z}$ 16'28					
desc. node	5882 Dec 22 21:59	2° $\mathcal{Z}$ 44'02		superior conj	5883 Dec 03 02:49	12° $\mathcal{X}$ 07'32	0°46'46
max. Earth dist.	5882 Dec 28 03:19	11° $\mathcal{Z}$ 13'33	1.44034 AU	minimum elong	5883 Dec 03 06:20	12° $\mathcal{X}$ 22'53	0°46'18
evening rise	5883 Jan 05 22:59	25° $\mathcal{Z}$ 05'12		desc. node	5883 Dec 09 19:01	23° $\mathcal{X}$ 30'46	
	5883 Jan 09 03:53	0° $\mathcal{A}$		max. Earth dist.	5883 Dec 10 16:03	24° $\mathcal{X}$ 57'59	1.42429 AU
	5883 Jan 29 22:57	0° $\mathcal{H}$			5883 Dec 13 17:59	0° $\mathcal{Z}$	
evening max el	5883 Feb 04 14:04	6° $\mathcal{H}$ 35'37	21°00'35	evening rise	5883 Dec 16 18:17	4° $\mathcal{Z}$ 49'15	
asc. node	5883 Feb 12 22:40	11° $\mathcal{H}$ 36'46			5884 Jan 02 11:59	0° $\mathcal{A}$	
retrograde	5883 Feb 13 01:55	11° $\mathcal{H}$ 36'52		evening max el	5884 Jan 18 08:39	20° $\mathcal{A}$ 12'13	22°16'00
evening set	5883 Feb 17 04:33	10° $\mathcal{H}$ 01'11		retrograde	5884 Jan 27 22:42	25° $\mathcal{A}$ 54'08	
inferior conj	5883 Feb 22 12:30	3° $\mathcal{H}$ 48'34	2°45'22	asc. node	5884 Jan 30 19:41	25° $\mathcal{A}$ 10'53	
minimum elong	5883 Feb 22 10:11	3° $\mathcal{H}$ 56'34	2°44'49	evening set	5884 Feb 01 12:12	24° $\mathcal{A}$ 03'11	
min. Earth dist.	5883 Feb 22 22:25	3° $\mathcal{H}$ 14'21	0.67875 AU	inferior conj	5884 Feb 06 20:31	17° $\mathcal{A}$ 41'55	2°10'20
	5883 Feb 25 09:20	30° $\mathcal{R}$ $\mathcal{A}$		minimum elong	5884 Feb 06 18:12	17° $\mathcal{A}$ 49'57	2°09'37
morning rise	5883 Feb 27 15:40	27° $\mathcal{A}$ 35'06		min. Earth dist.	5884 Feb 06 18:28	17° $\mathcal{A}$ 49'03	0.68171 AU
direct	5883 Mar 04 23:47	25° $\mathcal{A}$ 13'53		morning rise	5884 Feb 12 00:04	11° $\mathcal{A}$ 31'35	
	5883 Mar 14 00:34	0° $\mathcal{H}$		direct	5884 Feb 16 17:43	9° $\mathcal{A}$ 31'59	
morning max el	5883 Mar 15 16:36	1° $\mathcal{H}$ 36'32	23°42'39	morning max el	5884 Feb 26 03:50	15° $\mathcal{A}$ 04'18	22°13'57
desc. node	5883 Mar 20 21:16	7° $\mathcal{H}$ 25'34		desc. node	5884 Mar 06 18:17	26° $\mathcal{A}$ 37'16	
	5883 Apr 06 04:53	0° $\mathcal{Y}$			5884 Mar 09 05:47	0° $\mathcal{H}$	
morning set	5883 Apr 20 01:16	22° $\mathcal{Y}$ 14'04			5884 Mar 29 05:00	0° $\mathcal{Y}$	
max. Earth dist.	5883 Apr 23 22:34	28° $\mathcal{Y}$ 58'25	1.38718 AU	morning set	5884 Mar 30 12:02	2° $\mathcal{Y}$ 05'13	
	5883 Apr 24 12:29	0° $\mathcal{B}$		max. Earth dist.	5884 Apr 04 19:36	10° $\mathcal{Y}$ 51'51	1.40917 AU



superior conj	5884 Apr 12 14:27	24°  21'30	-1°55'46	superior conj	5885 Mar 24 22:13	5°  12'11	-2°08'45
minimum elong	5884 Apr 12 19:20	24°  43'17	1°55'25	minimum elong	5885 Mar 25 00:04	5°  20'01	2°08'42
	5884 Apr 15 17:31	0°  8		evening rise	5885 Apr 05 18:04	25°  49'49	
evening rise	5884 Apr 22 22:28	13°  821'38			5885 Apr 08 02:13	0°  8	
asc. node	5884 Apr 27 18:58	22°  820'14		asc. node	5885 Apr 14 16:01	11°  822'28	
	5884 May 02 05:27	0°  II		evening max el	5885 Apr 22 14:06	22°  812'59	18°06'19
evening max el	5884 May 09 02:27	9°  II10'19	18°17'41	retrograde	5885 Apr 29 03:51	25°  835'19	
retrograde	5884 May 16 06:55	12°  II45'42		evening set	5885 May 01 19:51	25°  801'52	
evening set	5884 May 18 15:57	12°  II23'02		inferior conj	5885 May 08 08:34	20°  801'28	2°58'27
inferior conj	5884 May 25 20:45	7°  II43'09	2°07'32	minimum elong	5885 May 08 11:21	19°  854'38	2°57'53
minimum elong	5884 May 26 00:07	7°  II35'58	2°06'34	min. Earth dist.	5885 May 11 11:56	16°  857'39	0.61301 AU
min. Earth dist.	5884 May 29 06:59	4°  II49'29	0.59076 AU	morning rise	5885 May 15 00:49	14°  803'52	
morning rise	5884 Jun 02 05:16	2°  II05'50		desc. node	5885 May 20 14:36	11°  850'05	
desc. node	5884 Jun 02 17:34	1°  II49'20		direct	5885 May 21 18:17	11°  846'08	
direct	5884 Jun 08 11:27	0°  II19'38		morning max el	5885 Jun 04 23:37	19°  844'32	27°51'49
morning max el	5884 Jun 22 20:43	8°  II08'18	27°21'00		5885 Jun 13 17:26	0°  II	
	5884 Jul 09 10:14	0°  ☿			5885 Jul 02 07:37	0°  ☿	
morning set	5884 Jul 23 20:26	26°  ☿52'42		morning set	5885 Jul 08 00:21	11°  ☿14'52	
asc. node	5884 Jul 24 18:15	28°  ☿47'36		asc. node	5885 Jul 11 15:17	18°  ☿51'33	
	5884 Jul 25 07:52	0°  ♊		max. Earth dist.	5885 Jul 13 21:22	23°  ☿43'53	1.32081 AU
superior conj	5884 Jul 30 22:28	12°  ♊14'37	1°00'20	superior conj	5885 Jul 15 09:03	26°  ☿59'05	0°38'01
minimum elong	5884 Jul 30 20:17	12°  ♊02'33	0°59'56	minimum elong	5885 Jul 15 07:26	26°  ☿50'12	0°37'40
max. Earth dist.	5884 Jul 30 11:53	11°  ♊16'05	1.31859 AU		5885 Jul 16 17:59	0°  ♊	
evening rise	5884 Aug 06 17:33	27°  ♊05'20		evening rise	5885 Jul 22 04:39	11°  ♊51'49	
	5884 Aug 08 02:44	0°  ♊			5885 Jul 31 08:21	0°  ♊	
	5884 Aug 25 00:56	0°  ♊		desc. node	5885 Aug 16 13:51	22°  ♊52'32	
desc. node	5884 Aug 29 16:49	6°  ♊13'11		evening max el	5885 Aug 17 05:18	23°  ♊30'15	24°53'14
evening max el	5884 Sep 04 13:13	12°  ♊37'03	26°14'31		5885 Aug 27 11:11	0°  ♊	
retrograde	5884 Sep 18 12:10	19°  ♊44'19		retrograde	5885 Aug 31 02:44	0°  ♊30'45	
evening set	5884 Sep 25 00:44	18°  ♊00'39			5885 Sep 03 18:41	30°  ♊  ♊	
min. Earth dist.	5884 Sep 29 02:25	15°  ♊25'51	0.59098 AU	evening set	5885 Sep 05 13:08	29°  ♊24'09	
inferior conj	5884 Oct 02 07:50	12°  ♊59'37	-4°54'21	min. Earth dist.	5885 Sep 10 16:42	26°  ♊39'06	0.57140 AU
minimum elong	5884 Oct 02 13:27	12°  ♊48'58	4°53'24	inferior conj	5885 Sep 13 13:09	24°  ♊46'47	-5°21'05
morning rise	5884 Oct 10 04:23	8°  ♊28'58		minimum elong	5885 Sep 13 14:27	24°  ♊44'38	5°21'03
direct	5884 Oct 12 12:41	8°  ♊10'07		morning rise	5885 Sep 21 18:03	20°  ♊38'28	
morning max el	5884 Oct 20 12:01	12°  ♊02'07	18°25'46	direct	5885 Sep 24 07:49	20°  ♊19'37	
asc. node	5884 Oct 20 17:30	12°  ♊15'28		morning max el	5885 Oct 03 12:00	24°  ♊39'24	19°15'27
	5884 Nov 01 12:07	0°  ♊		asc. node	5885 Oct 07 14:34	29°  ♊21'15	
morning set	5884 Nov 05 11:49	7°  ♊33'09			5885 Oct 08 02:00	0°  ♊	
				morning set	5885 Oct 20 12:11	21°  ♊55'47	
superior conj	5884 Nov 14 12:32	24°  ♊41'22	1°14'32		5885 Oct 24 13:09	0°  ♊	
minimum elong	5884 Nov 14 16:12	24°  ♊58'15	1°14'08				
	5884 Nov 17 10:25	0°  ♊		superior conj	5885 Oct 28 15:46	8°  ♊05'50	1°32'20
max. Earth dist.	5884 Nov 21 23:55	8°  ♊02'24	1.40445 AU	minimum elong	5885 Oct 28 18:17	8°  ♊18'07	1°32'10
desc. node	5884 Nov 25 16:03	14°  ♊16'03		max. Earth dist.	5885 Nov 04 05:11	20°  ♊26'50	1.38324 AU
evening rise	5884 Nov 26 09:34	15°  ♊28'50		evening rise	5885 Nov 07 23:32	27°  ♊09'23	
	5884 Dec 05 12:31	0°  ♊			5885 Nov 09 14:59	0°  ♊	
	5884 Dec 27 09:10	0°  ♊		desc. node	5885 Nov 12 13:05	4°  ♊55'35	
evening max el	5884 Dec 30 23:35	3°  ♊52'42	23°35'52		5885 Nov 29 00:53	0°  ♊	
retrograde	5885 Jan 10 16:33	10°  ♊11'59		evening max el	5885 Dec 13 12:41	17°  ♊36'27	24°53'49
evening set	5885 Jan 15 18:20	8°  ♊05'47		retrograde	5885 Dec 25 06:16	24°  ♊25'18	
asc. node	5885 Jan 16 16:44	7°  ♊14'17		evening set	5885 Dec 30 21:22	22°  ♊04'46	
min. Earth dist.	5885 Jan 20 15:16	2°  ♊25'07	0.68085 AU	asc. node	5886 Jan 03 13:47	18°  ♊04'53	
inferior conj	5885 Jan 21 04:31	1°  ♊39'45	1°27'30	min. Earth dist.	5886 Jan 04 10:23	16°  ♊58'23	0.67633 AU
minimum elong	5885 Jan 21 02:41	1°  ♊46'04	1°26'49	inferior conj	5886 Jan 05 10:41	15°  ♊38'20	0°37'37
	5885 Jan 22 10:01	30°  ♊  ♊		minimum elong	5886 Jan 05 09:47	15°  ♊41'19	0°37'16
morning rise	5885 Jan 26 10:58	25°  ♊34'17		morning rise	5886 Jan 10 22:22	9°  ♊39'44	
direct	5885 Jan 30 14:41	23°  ♊57'22		direct	5886 Jan 14 13:19	8°  ♊24'16	
morning max el	5885 Feb 07 20:59	28°  ♊42'34	20°52'40	morning max el	5886 Jan 21 22:03	12°  ♊32'22	19°43'50
	5885 Feb 09 02:45	0°  ♊		greatest brilliancy	5886 Feb 03 21:29	29°  ♊33'14	-0.7m
desc. node	5885 Feb 21 15:19	16°  ♊21'02			5886 Feb 04 04:44	0°  ♊	
	5885 Mar 02 20:43	0°  ♊		desc. node	5886 Feb 08 12:20	6°  ♊27'27	
morning set	5885 Mar 09 20:02	10°  ♊43'23		morning set	5886 Feb 16 16:26	18°  ♊56'18	
max. Earth dist.	5885 Mar 17 23:31	23°  ♊41'34	1.42893 AU		5886 Feb 23 19:17	0°  ♊	
	5885 Mar 21 19:41	0°  ♊		max. Earth dist.	5886 Feb 28 11:14	7°  ♊21'22	1.44385 AU

superior conj	5886 Mar 05 04:31	14° $\text{K}$ 54'52	-2°05'41		5887 Jan 28 09:46	0° $\approx$	
minimum elong	5886 Mar 05 00:12	14° $\text{K}$ 37'27	2°05'31	max. Earth dist.	5887 Feb 11 04:15	21° $\approx$ 33'40	1.45222 AU
	5886 Mar 14 08:40	0° $\text{Y}$					
evening rise	5886 Mar 18 18:16	7° $\text{Y}$ 24'57		superior conj	5887 Feb 12 13:41	23° $\approx$ 44'59	-1°42'47
asc. node	5886 Apr 01 13:03	29° $\text{Y}$ 53'13		minimum elong	5887 Feb 12 04:26	23° $\approx$ 08'37	1°41'58
	5886 Apr 01 14:58	0° $\text{B}$			5887 Feb 16 12:50	0° $\text{K}$	
evening max el	5886 Apr 06 03:07	5° $\text{B}$ 31'44	18°14'02	evening rise	5887 Feb 27 19:38	18° $\text{K}$ 02'29	
retrograde	5886 Apr 12 12:44	8° $\text{B}$ 55'55			5887 Mar 07 05:18	0° $\text{Y}$	
evening set	5886 Apr 15 11:13	8° $\text{B}$ 10'17		asc. node	5887 Mar 19 10:05	17° $\text{Y}$ 42'44	
inferior conj	5886 Apr 21 11:55	2° $\text{B}$ 50'40	3°24'13	evening max el	5887 Mar 20 14:43	18° $\text{Y}$ 59'35	18°40'02
minimum elong	5886 Apr 21 13:13	2° $\text{B}$ 47'04	3°24'05	retrograde	5887 Mar 27 05:18	22° $\text{Y}$ 38'31	
min. Earth dist.	5886 Apr 24 01:53	29° $\text{Y}$ 59'45	0.63395 AU	evening set	5887 Mar 30 10:20	21° $\text{Y}$ 39'55	
	5886 Apr 24 01:47	30° $\text{R}$ $\text{Y}$		inferior conj	5887 Apr 05 02:45	16° $\text{Y}$ 02'49	3°30'33
morning rise	5886 Apr 27 14:05	26° $\text{Y}$ 41'42		minimum elong	5887 Apr 05 02:32	16° $\text{Y}$ 03'28	3°30'32
direct	5886 May 04 09:59	24° $\text{Y}$ 02'01		min. Earth dist.	5887 Apr 07 01:15	13° $\text{Y}$ 41'28	0.65179 AU
desc. node	5886 May 07 11:37	24° $\text{Y}$ 30'43		morning rise	5887 Apr 10 18:09	9° $\text{Y}$ 48'37	
	5886 May 16 04:19	0° $\text{B}$		direct	5887 Apr 17 09:18	6° $\text{Y}$ 59'39	
morning max el	5886 May 18 07:31	2° $\text{B}$ 02'05	27°44'58	desc. node	5887 Apr 24 08:37	9° $\text{Y}$ 27'39	
	5886 Jun 08 00:03	0° $\text{II}$		morning max el	5887 Apr 30 17:41	14° $\text{Y}$ 51'05	27°04'10
morning set	5886 Jun 21 21:37	25° $\text{II}$ 14'49			5887 May 13 02:22	0° $\text{B}$	
	5886 Jun 24 05:51	0° $\text{B}$			5887 May 31 17:29	0° $\text{II}$	
max. Earth dist.	5886 Jun 27 01:32	5° $\text{B}$ 53'20	1.32745 AU	morning set	5887 Jun 05 09:13	8° $\text{II}$ 43'09	
asc. node	5886 Jun 28 12:20	8° $\text{B}$ 58'42		max. Earth dist.	5887 Jun 09 20:25	17° $\text{II}$ 33'35	1.33875 AU
superior conj	5886 Jun 29 16:34	11° $\text{B}$ 30'25	0°12'10	superior conj	5887 Jun 13 18:53	25° $\text{II}$ 41'33	-0°16'27
minimum elong	5886 Jun 29 15:59	11° $\text{B}$ 27'14	0°12'01	minimum elong	5887 Jun 13 19:46	25° $\text{II}$ 46'09	0°16'18
behind sun begin	5886 Jun 29 12:28	11° $\text{B}$ 08'18		asc. node	5887 Jun 15 09:21	29° $\text{II}$ 04'19	
behind sun end	5886 Jun 29 19:30	11° $\text{B}$ 46'12			5887 Jun 15 19:52	0° $\text{B}$	
evening rise	5886 Jul 06 16:28	26° $\text{B}$ 37'04		evening rise	5887 Jun 21 03:04	11° $\text{B}$ 14'06	
	5886 Jul 08 07:00	0° $\text{B}$			5887 Jun 30 20:12	0° $\text{B}$	
	5886 Jul 26 03:33	0° $\text{B}$		evening max el	5887 Jul 11 09:59	14° $\text{B}$ 17'03	21°41'04
evening max el	5886 Jul 29 17:33	3° $\text{B}$ 52'49	23°16'41	desc. node	5887 Jul 21 07:54	20° $\text{B}$ 11'50	
desc. node	5886 Aug 03 10:53	7° $\text{B}$ 43'40		retrograde	5887 Jul 23 20:41	20° $\text{B}$ 27'01	
retrograde	5886 Aug 12 04:58	10° $\text{B}$ 37'37		evening set	5887 Jul 26 10:47	20° $\text{B}$ 11'51	
evening set	5886 Aug 16 03:28	10° $\text{B}$ 03'41		inferior conj	5887 Aug 04 18:04	16° $\text{B}$ 10'53	-3°59'17
min. Earth dist.	5886 Aug 23 02:44	6° $\text{B}$ 51'41	0.55607 AU	minimum elong	5887 Aug 04 09:02	16° $\text{B}$ 23'31	3°56'52
inferior conj	5886 Aug 24 22:39	5° $\text{B}$ 47'25	-5°06'28	min. Earth dist.	5887 Aug 04 12:28	16° $\text{B}$ 18'43	0.54817 AU
minimum elong	5886 Aug 24 17:15	5° $\text{B}$ 55'21	5°05'48	morning rise	5887 Aug 13 08:32	12° $\text{B}$ 19'37	
morning rise	5886 Sep 02 09:22	1° $\text{B}$ 55'34		direct	5887 Aug 16 17:58	11° $\text{B}$ 54'31	
direct	5886 Sep 05 07:44	1° $\text{B}$ 34'52		morning max el	5887 Aug 29 00:34	17° $\text{B}$ 40'49	21°58'38
morning max el	5886 Sep 16 00:18	6° $\text{B}$ 33'21	20°27'12		5887 Sep 07 18:48	0° $\text{B}$	
asc. node	5886 Sep 24 11:37	17° $\text{B}$ 21'20		asc. node	5887 Sep 11 08:39	6° $\text{B}$ 02'09	
	5886 Oct 01 12:01	0° $\text{B}$		morning set	5887 Sep 19 04:15	21° $\text{B}$ 23'02	
morning set	5886 Oct 04 18:27	6° $\text{B}$ 34'57			5887 Sep 23 05:57	0° $\text{B}$	
superior conj	5886 Oct 12 07:43	22° $\text{B}$ 07'45	1°41'17	superior conj	5887 Sep 26 08:29	6° $\text{B}$ 34'43	1°42'42
minimum elong	5886 Oct 12 08:44	22° $\text{B}$ 12'56	1°41'17	minimum elong	5887 Sep 26 08:06	6° $\text{B}$ 32'43	1°42'42
	5886 Oct 16 06:27	0° $\text{B}$		max. Earth dist.	5887 Sep 30 02:00	14° $\text{B}$ 18'23	1.34587 AU
max. Earth dist.	5886 Oct 17 12:23	2° $\text{B}$ 25'16	1.36308 AU	evening rise	5887 Oct 04 12:36	23° $\text{B}$ 06'49	
evening rise	5886 Oct 21 09:55	9° $\text{B}$ 45'42			5887 Oct 08 04:28	0° $\text{B}$	
desc. node	5886 Oct 30 10:07	25° $\text{B}$ 25'16		desc. node	5887 Oct 17 07:09	15° $\text{B}$ 39'10	
	5886 Nov 02 06:19	0° $\text{B}$			5887 Oct 26 22:26	0° $\text{B}$	
	5886 Nov 24 17:06	0° $\text{B}$		evening max el	5887 Nov 08 14:08	14° $\text{B}$ 58'33	26°55'08
evening max el	5886 Nov 26 01:24	1° $\text{B}$ 20'42	26°02'39	retrograde	5887 Nov 21 18:42	22° $\text{B}$ 16'26	
retrograde	5886 Dec 08 15:10	8° $\text{B}$ 29'08		evening set	5887 Nov 28 10:59	19° $\text{B}$ 37'42	
evening set	5886 Dec 14 19:35	5° $\text{B}$ 56'55		min. Earth dist.	5887 Dec 02 10:34	15° $\text{B}$ 41'21	0.65650 AU
min. Earth dist.	5886 Dec 19 01:34	1° $\text{B}$ 25'30	0.66822 AU	inferior conj	5887 Dec 04 09:49	13° $\text{B}$ 25'08	-1°19'34
	5886 Dec 20 05:04	30° $\text{R}$ $\text{B}$		minimum elong	5887 Dec 04 12:06	13° $\text{B}$ 18'34	1°18'35
inferior conj	5886 Dec 20 13:08	29° $\text{B}$ 34'50	-0°18'26	asc. node	5887 Dec 08 07:52	9° $\text{B}$ 20'10	
minimum elong	5886 Dec 20 13:38	29° $\text{B}$ 33'18	0°18'12	morning rise	5887 Dec 10 14:12	7° $\text{B}$ 47'19	
asc. node	5886 Dec 21 10:50	28° $\text{B}$ 27'52		direct	5887 Dec 13 08:50	7° $\text{B}$ 05'12	
morning rise	5886 Dec 26 08:13	23° $\text{B}$ 45'21		morning max el	5887 Dec 19 20:47	10° $\text{B}$ 34'27	18°12'52
direct	5886 Dec 29 12:00	22° $\text{B}$ 48'26			5888 Jan 02 12:22	0° $\text{B}$	
morning max el	5887 Jan 05 06:41	26° $\text{B}$ 31'35	18°50'09	morning set	5888 Jan 07 16:37	8° $\text{B}$ 24'17	
	5887 Jan 08 08:39	0° $\text{B}$		desc. node	5888 Jan 13 06:22	17° $\text{B}$ 25'09	
desc. node	5887 Jan 26 09:21	26° $\text{B}$ 50'23			5888 Jan 21 03:56	0° $\approx$	
morning set	5887 Jan 27 02:18	27° $\text{B}$ 56'48					

superior conj	5888 Jan 22 17:41	2° $\approx$ 28'46	-1°03'04	morning set	5888 Dec 19 11:15	20° $\approx$ 14'59	
minimum elong	5888 Jan 22 10:06	1° $\approx$ 58'56	1°02'04		5888 Dec 25 05:41	0° $\approx$	
max. Earth dist.	5888 Jan 24 23:21	5° $\approx$ 59'34	1.45326 AU	desc. node	5888 Dec 30 03:24	8° $\approx$ 07'21	
evening rise	5888 Feb 07 22:37	27° $\approx$ 47'59					
	5888 Feb 09 08:30	0° $\approx$		superior conj	5889 Jan 01 12:13	11° $\approx$ 58'45	-0°16'39
greatest brilliancy	5888 Feb 19 20:46	16° $\approx$ 15'05	-0.7m	minimum elong	5889 Jan 01 10:18	11° $\approx$ 51'00	0°16'21
	5888 Feb 29 16:12	0° $\approx$		max. Earth dist.	5889 Jan 06 18:02	20° $\approx$ 22'49	1.44701 AU
evening max el	5888 Mar 02 22:45	2° $\approx$ 32'08	19°23'11		5889 Jan 12 21:10	0° $\approx$	
asc. node	5888 Mar 05 07:07	4° $\approx$ 39'00		evening rise	5889 Jan 17 10:58	7° $\approx$ 04'00	
retrograde	5888 Mar 10 02:00	6° $\approx$ 36'43			5889 Feb 01 16:54	0° $\approx$	
evening set	5888 Mar 13 14:24	5° $\approx$ 24'23		evening max el	5889 Feb 14 01:48	16° $\approx$ 06'37	20°21'29
	5888 Mar 18 16:59	30° $\approx$ 11'11		asc. node	5889 Feb 20 04:08	20° $\approx$ 17'21	
inferior conj	5888 Mar 19 01:39	29° $\approx$ 31'49	3°21'57	retrograde	5889 Feb 22 00:13	20° $\approx$ 14'51	
minimum elong	5888 Mar 19 00:16	29° $\approx$ 36'20	3°21'48	evening set	5889 Feb 25 21:14	19° $\approx$ 18'21	
min. Earth dist.	5888 Mar 20 09:02	27° $\approx$ 14'34	0.66564 AU	inferior conj	5889 Mar 03 05:49	13° $\approx$ 12'29	3°01'34
morning rise	5888 Mar 24 09:48	23° $\approx$ 16'12		minimum elong	5889 Mar 03 03:42	13° $\approx$ 19'40	3°01'10
direct	5888 Mar 30 15:07	20° $\approx$ 30'29		min. Earth dist.	5889 Mar 03 23:13	12° $\approx$ 13'14	0.67523 AU
desc. node	5888 Apr 10 05:37	26° $\approx$ 07'42		morning rise	5889 Mar 08 09:57	6° $\approx$ 57'50	
morning max el	5888 Apr 12 03:31	27° $\approx$ 58'46	25°57'10	direct	5889 Mar 14 02:23	4° $\approx$ 25'29	
	5888 Apr 14 01:33	0° $\approx$		morning max el	5889 Mar 25 12:10	11° $\approx$ 15'05	24°33'48
	5888 May 05 19:40	0° $\approx$		desc. node	5889 Mar 28 02:38	14° $\approx$ 02'02	
morning set	5888 May 18 07:18	21° $\approx$ 29'05			5889 Apr 09 11:17	0° $\approx$	
max. Earth dist.	5888 May 22 03:47	28° $\approx$ 44'52	1.35471 AU		5889 Apr 28 13:15	0° $\approx$	
	5888 May 22 19:21	0° $\approx$		morning set	5889 Apr 30 10:45	3° $\approx$ 17'51	
				max. Earth dist.	5889 May 04 01:40	9° $\approx$ 46'16	1.37464 AU
superior conj	5888 May 27 13:31	9° $\approx$ 25'56	-0°46'37				
minimum elong	5888 May 27 16:08	9° $\approx$ 39'13	0°46'09	superior conj	5889 May 10 21:16	22° $\approx$ 34'49	-1°16'31
asc. node	5888 Jun 01 06:22	19° $\approx$ 04'44		minimum elong	5889 May 11 01:34	22° $\approx$ 55'43	1°15'52
evening rise	5888 Jun 04 10:23	25° $\approx$ 36'51			5889 May 14 16:01	0° $\approx$	
	5888 Jun 06 14:10	0° $\approx$		evening rise	5889 May 19 11:59	9° $\approx$ 38'09	
evening max el	5888 Jun 22 13:43	25° $\approx$ 13'35	20°18'50	asc. node	5889 May 19 03:24	8° $\approx$ 55'22	
	5888 Jun 29 22:01	0° $\approx$			5889 May 30 17:41	0° $\approx$	
retrograde	5888 Jul 03 09:44	0° $\approx$ 32'23		evening max el	5889 Jun 05 06:06	6° $\approx$ 52'52	19°15'44
evening set	5888 Jul 05 08:32	0° $\approx$ 22'47		retrograde	5889 Jun 14 08:56	11° $\approx$ 20'54	
desc. node	5888 Jul 07 04:53	29° $\approx$ 57'04		evening set	5889 Jun 16 07:48	11° $\approx$ 09'30	
	5888 Jul 07 00:53	30° $\approx$ 11'11		desc. node	5889 Jun 24 01:53	7° $\approx$ 29'20	
inferior conj	5888 Jul 14 12:20	26° $\approx$ 24'58	-2°10'42	inferior conj	5889 Jun 24 19:29	7° $\approx$ 00'16	-0°13'09
minimum elong	5888 Jul 14 06:16	26° $\approx$ 33'52	2°08'32	minimum elong	5889 Jun 24 18:55	7° $\approx$ 01'12	0°12'57
min. Earth dist.	5888 Jul 16 00:01	25° $\approx$ 32'40	0.54977 AU	transit middle	5889 Jun 24 18:55	7° $\approx$ 01'12	0°12'57
morning rise	5888 Jul 23 02:49	22° $\approx$ 13'35		transit begin	5889 Jun 24 16:39	7° $\approx$ 04'58	
direct	5888 Jul 27 04:23	21° $\approx$ 37'48		transit end	5889 Jun 24 21:10	6° $\approx$ 57'27	
morning max el	5888 Aug 09 16:13	28° $\approx$ 12'07	23°41'55	min. Earth dist.	5889 Jun 27 14:04	5° $\approx$ 10'13	0.56064 AU
	5888 Aug 11 11:40	0° $\approx$		morning rise	5889 Jul 03 03:03	2° $\approx$ 15'07	
asc. node	5888 Aug 28 05:39	25° $\approx$ 13'41		direct	5889 Jul 08 01:51	1° $\approx$ 18'50	
	5888 Aug 30 15:30	0° $\approx$		morning max el	5889 Jul 22 05:30	8° $\approx$ 30'57	25°23'26
morning set	5888 Sep 02 15:45	6° $\approx$ 14'43			5889 Aug 07 05:04	0° $\approx$	
				asc. node	5889 Aug 15 02:42	14° $\approx$ 48'07	
superior conj	5888 Sep 09 15:07	21° $\approx$ 17'37	1°37'39	morning set	5889 Aug 18 03:19	21° $\approx$ 05'33	
minimum elong	5888 Sep 09 13:40	21° $\approx$ 09'47	1°37'32		5889 Aug 22 06:05	0° $\approx$	
max. Earth dist.	5888 Sep 12 00:20	26° $\approx$ 14'23	1.33269 AU				
	5888 Sep 13 17:13	0° $\approx$		superior conj	5889 Aug 25 01:17	6° $\approx$ 09'21	1°26'59
evening rise	5888 Sep 17 03:35	7° $\approx$ 02'09		minimum elong	5889 Aug 24 23:11	5° $\approx$ 57'49	1°26'43
	5888 Sep 29 17:30	0° $\approx$		max. Earth dist.	5889 Aug 26 06:18	8° $\approx$ 48'26	1.32384 AU
desc. node	5888 Oct 03 04:10	5° $\approx$ 30'05		evening rise	5889 Sep 01 03:31	21° $\approx$ 22'23	
evening max el	5888 Oct 21 02:15	28° $\approx$ 20'03	27°24'05		5889 Sep 05 10:51	0° $\approx$	
	5888 Oct 22 22:22	0° $\approx$		desc. node	5889 Sep 20 01:11	24° $\approx$ 48'42	
retrograde	5888 Nov 03 16:11	5° $\approx$ 38'26			5889 Sep 23 18:06	0° $\approx$	
evening set	5888 Nov 10 17:01	3° $\approx$ 01'07		evening max el	5889 Oct 03 11:42	11° $\approx$ 12'28	27°23'17
	5888 Nov 14 02:37	30° $\approx$ 11'11		retrograde	5889 Oct 17 06:38	18° $\approx$ 26'25	
min. Earth dist.	5888 Nov 14 11:15	29° $\approx$ 38'10	0.64136 AU	evening set	5889 Oct 24 10:26	16° $\approx$ 00'47	
inferior conj	5888 Nov 16 22:16	27° $\approx$ 03'33	-2°23'58	min. Earth dist.	5889 Oct 28 01:51	13° $\approx$ 06'07	0.62325 AU
minimum elong	5888 Nov 17 02:32	26° $\approx$ 52'20	2°22'17	inferior conj	5889 Oct 30 23:39	10° $\approx$ 23'11	-3°28'20
morning rise	5888 Nov 23 13:31	21° $\approx$ 40'18		minimum elong	5889 Oct 31 05:38	10° $\approx$ 09'10	3°26'22
asc. node	5888 Nov 24 04:54	21° $\approx$ 26'22		morning rise	5889 Nov 07 02:39	5° $\approx$ 17'55	
direct	5888 Nov 26 01:23	21° $\approx$ 08'58		direct	5889 Nov 09 10:33	4° $\approx$ 53'44	
morning max el	5888 Dec 02 13:33	24° $\approx$ 33'39	17°52'39	asc. node	5889 Nov 11 01:56	5° $\approx$ 06'07	
	5888 Dec 07 00:26	0° $\approx$		morning max el	5889 Nov 16 05:57	8° $\approx$ 21'59	17°50'18

	5889 Nov 30 09:35	0°♊		morning max el	5890 Oct 30 18:43	21°♊50'18	18°06'58
morning set	5889 Dec 02 04:04	3°♊09'40			5890 Nov 06 01:29	0°♊	
				morning set	5890 Nov 15 12:42	16°♊48'28	
superior conj	5889 Dec 13 08:07	22°♊43'26	0°26'06		5890 Nov 22 15:07	0°♊	
minimum elong	5889 Dec 13 10:30	22°♊53'31	0°25'46				
desc. node	5889 Dec 17 00:27	28°♊53'45		superior conj	5890 Nov 25 05:19	4°♊41'07	0°59'48
	5889 Dec 17 16:28	0°♊		minimum elong	5890 Nov 25 09:07	4°♊58'08	0°59'19
max. Earth dist.	5889 Dec 20 10:02	4°♊28'08	1.43420 AU	max. Earth dist.	5890 Dec 02 21:10	17°♊58'28	1.41626 AU
evening rise	5889 Dec 27 23:32	16°♊28'31		desc. node	5890 Dec 03 21:28	19°♊40'11	
	5890 Jan 05 20:42	0°♊		evening rise	5890 Dec 08 02:31	26°♊34'08	
evening max el	5890 Jan 27 23:27	29°♊42'54	21°31'44		5890 Dec 10 06:01	0°♊	
	5890 Jan 28 06:14	0°♊			5890 Dec 30 15:08	0°♊	
retrograde	5890 Feb 05 21:56	5°♊00'47		evening max el	5891 Jan 10 16:17	13°♊21'00	22°49'41
asc. node	5890 Feb 07 01:09	4°♊53'57		retrograde	5891 Jan 20 17:38	19°♊19'08	
evening set	5890 Feb 10 05:05	3°♊18'37		asc. node	5891 Jan 24 22:13	17°♊49'03	
	5890 Feb 13 08:13	30°♊		evening set	5891 Jan 25 12:20	17°♊21'24	
inferior conj	5890 Feb 15 13:01	27°♊02'07	2°31'31	inferior conj	5891 Jan 30 21:16	10°♊57'35	1°53'05
minimum elong	5890 Feb 15 10:39	27°♊10'21	2°30'51	minimum elong	5891 Jan 30 19:06	11°♊05'06	1°52'20
min. Earth dist.	5890 Feb 15 17:44	26°♊45'46	0.68061 AU	min. Earth dist.	5891 Jan 30 14:19	11°♊21'40	0.68188 AU
morning rise	5890 Feb 20 16:03	20°♊49'59		morning rise	5891 Feb 05 01:47	4°♊49'22	
direct	5890 Feb 25 18:07	18°♊37'32		direct	5891 Feb 09 13:23	2°♊59'38	
morning max el	5890 Mar 07 21:30	24°♊38'10	23°04'23	morning max el	5891 Feb 18 11:01	8°♊10'35	21°38'06
	5890 Mar 12 16:52	0°♊		desc. node	5891 Mar 01 20:45	22°♊16'42	
desc. node	5890 Mar 14 23:42	2°♊50'05			5891 Mar 07 07:00	0°♊	
	5890 Apr 02 22:30	0°♊		morning set	5891 Mar 22 12:22	23°♊12'20	
morning set	5890 Apr 11 13:41	13°♊54'32			5891 Mar 26 17:32	0°♊	
max. Earth dist.	5890 Apr 15 21:18	21°♊14'07	1.39670 AU	max. Earth dist.	5891 Mar 28 21:30	3°♊33'36	1.41804 AU
	5890 Apr 20 20:33	0°♊					
superior conj	5890 Apr 23 14:08	4°♊58'30	-1°43'19	superior conj	5891 Apr 05 11:20	16°♊26'02	-2°02'52
minimum elong	5890 Apr 23 19:20	5°♊22'29	1°42'46	minimum elong	5891 Apr 05 15:22	16°♊43'37	2°02'40
evening rise	5890 May 03 04:59	23°♊10'33			5891 Apr 13 01:44	0°♊	
asc. node	5890 May 06 00:25	28°♊31'39		evening rise	5891 Apr 16 09:41	6°♊05'31	
	5890 May 06 19:14	0°♊		asc. node	5891 Apr 22 21:28	17°♊48'30	
evening max el	5890 May 19 08:42	19°♊11'04	18°33'01		5891 Apr 30 21:58	0°♊	
retrograde	5890 May 27 02:43	23°♊01'13		evening max el	5891 May 02 18:02	2°♊00'10	18°10'25
evening set	5890 May 29 07:42	22°♊43'33		retrograde	5891 May 09 14:59	5°♊28'30	
inferior conj	5890 Jun 05 23:18	18°♊15'05	1°24'50	evening set	5891 May 12 02:57	5°♊01'31	
minimum elong	5890 Jun 06 02:06	18°♊09'37	1°23'53	inferior conj	5891 May 19 00:24	0°♊12'33	2°32'37
min. Earth dist.	5890 Jun 09 08:09	15°♊38'58	0.57854 AU	minimum elong	5891 May 19 03:42	0°♊05'01	2°31'46
desc. node	5890 Jun 10 22:55	14°♊30'44			5891 May 19 05:54	30°♊	
morning rise	5890 Jun 13 17:14	12°♊54'38		min. Earth dist.	5891 May 22 08:43	27°♊11'33	0.60015 AU
direct	5890 Jun 19 13:15	11°♊28'21		morning rise	5891 May 26 01:49	24°♊25'05	
morning max el	5890 Jul 03 22:28	19°♊06'06	26°46'54	desc. node	5891 May 28 19:58	23°♊04'44	
	5890 Jul 13 03:34	0°♊		direct	5891 Jun 01 13:37	22°♊24'59	
	5890 Jul 30 17:44	0°♊			5891 Jun 15 14:19	0°♊	
asc. node	5890 Aug 01 23:43	4°♊38'09		morning max el	5891 Jun 15 22:04	0°♊18'58	27°38'57
morning set	5890 Aug 02 13:19	5°♊49'38			5891 Jul 07 05:14	0°♊	
				morning set	5891 Jul 17 20:02	20°♊21'51	
superior conj	5890 Aug 09 12:58	21°♊02'40	1°11'22	asc. node	5891 Jul 19 20:46	24°♊38'32	
minimum elong	5890 Aug 09 10:41	20°♊50'00	1°10'59		5891 Jul 22 08:22	0°♊	
max. Earth dist.	5890 Aug 09 16:38	21°♊22'54	1.31926 AU	max. Earth dist.	5891 Jul 24 03:35	3°♊56'51	1.31896 AU
	5890 Aug 13 14:42	0°♊					
evening rise	5890 Aug 16 09:30	5°♊58'06		superior conj	5891 Jul 25 00:28	5°♊52'00	0°51'20
	5890 Aug 29 01:07	0°♊		minimum elong	5891 Jul 24 22:28	5°♊40'57	0°50'57
desc. node	5890 Sep 06 22:12	13°♊21'13		evening rise	5891 Jul 31 19:19	20°♊42'24	
evening max el	5890 Sep 15 15:28	23°♊21'31	26°49'03		5891 Aug 05 07:21	0°♊	
	5890 Sep 26 00:41	0°♊			5891 Aug 24 02:21	0°♊	
retrograde	5890 Sep 29 13:04	0°♊30'46		desc. node	5891 Aug 24 19:13	0°♊48'53	
	5890 Oct 02 23:50	30°♊		evening max el	5891 Aug 28 11:31	4°♊40'23	25°42'45
evening set	5890 Oct 06 10:54	28°♊28'22		retrograde	5891 Sep 11 10:17	11°♊45'46	
min. Earth dist.	5890 Oct 10 05:29	25°♊51'19	0.60302 AU	evening set	5891 Sep 17 13:33	10°♊17'08	
inferior conj	5890 Oct 13 10:28	23°♊13'57	-4°26'55	min. Earth dist.	5891 Sep 21 23:39	7°♊40'34	0.58237 AU
minimum elong	5890 Oct 13 16:57	23°♊00'39	4°25'24	inferior conj	5891 Sep 25 03:15	5°♊26'20	-5°09'37
morning rise	5890 Oct 21 01:04	18°♊30'10		minimum elong	5891 Sep 25 07:30	5°♊18'45	5°09'08
direct	5890 Oct 23 08:17	18°♊10'04		morning rise	5891 Oct 03 03:46	1°♊05'49	
asc. node	5890 Oct 28 23:00	20°♊16'13		direct	5891 Oct 05 13:55	0°♊47'16	
				morning max el	5891 Oct 14 00:23	4°♊49'22	18°44'14

asc. node	5891 Oct 15 20:04	6° $\Omega$ 44'09			5892 Oct 05 08:07	0° $\Omega$	
	5891 Oct 29 20:28	0° $\mathbb{M}$		morning set	5892 Oct 13 11:31	15° $\Omega$ 28'08	
morning set	5891 Oct 30 08:21	0° $\mathbb{M}$ 57'51			5892 Oct 20 16:05	0° $\mathbb{M}$	
superior conj	5891 Nov 07 23:08	17° $\mathbb{M}$ 38'31	1°23'14	superior conj	5892 Oct 21 08:18	1° $\mathbb{M}$ 20'29	1°37'08
minimum elong	5891 Nov 08 02:25	17° $\mathbb{M}$ 53'56	1°22'56	minimum elong	5892 Oct 21 10:12	1° $\mathbb{M}$ 29'54	1°37'02
	5891 Nov 14 17:15	0° $\mathbb{A}$		max. Earth dist.	5892 Oct 27 08:17	12° $\mathbb{M}$ 53'29	1.37435 AU
max. Earth dist.	5891 Nov 15 03:21	0° $\mathbb{A}$ 44'34	1.39546 AU	evening rise	5892 Oct 31 02:30	19° $\mathbb{M}$ 44'58	
evening rise	5891 Nov 19 03:25	7° $\mathbb{A}$ 39'17			5892 Nov 06 01:11	0° $\mathbb{A}$	
desc. node	5891 Nov 20 18:29	10° $\mathbb{A}$ 23'19		desc. node	5892 Nov 06 15:29	0° $\mathbb{A}$ 59'23	
	5891 Dec 03 06:13	0° $\mathbb{B}$			5892 Nov 26 08:39	0° $\mathbb{B}$	
evening max el	5891 Dec 24 06:00	27° $\mathbb{B}$ 02'07	24°09'36	evening max el	5892 Dec 05 18:44	10° $\mathbb{B}$ 46'57	25°24'40
	5891 Dec 27 12:32	0° $\approx$		retrograde	5892 Dec 17 21:54	17° $\mathbb{B}$ 46'08	
retrograde	5892 Jan 04 09:58	3° $\approx$ 35'43		evening set	5892 Dec 23 18:35	15° $\mathbb{B}$ 20'19	
evening set	5892 Jan 09 17:22	1° $\approx$ 23'00		min. Earth dist.	5892 Dec 28 04:32	10° $\mathbb{B}$ 28'29	0.67327 AU
	5892 Jan 11 03:58	30° $\mathbb{R}$ $\mathbb{B}$		asc. node	5892 Dec 28 16:20	9° $\mathbb{B}$ 50'34	
asc. node	5892 Jan 11 19:17	29° $\mathbb{B}$ 17'39		inferior conj	5892 Dec 29 09:33	8° $\mathbb{B}$ 54'51	0°14'34
min. Earth dist.	5892 Jan 14 10:41	25° $\mathbb{B}$ 56'52	0.67937 AU	minimum elong	5892 Dec 29 09:11	8° $\mathbb{B}$ 56'03	0°14'26
inferior conj	5892 Jan 15 04:43	24° $\mathbb{B}$ 55'58	1°07'09	transit middle	5892 Dec 29 09:11	8° $\mathbb{B}$ 56'03	0°14'26
minimum elong	5892 Jan 15 03:13	25° $\mathbb{B}$ 01'03	1°06'34	transit begin	5892 Dec 29 07:56	9° $\mathbb{B}$ 00'07	
morning rise	5892 Jan 20 13:08	18° $\mathbb{B}$ 53'13		transit end	5892 Dec 29 10:27	8° $\mathbb{B}$ 52'00	
direct	5892 Jan 24 11:07	17° $\mathbb{B}$ 25'57		morning rise	5893 Jan 04 00:07	2° $\mathbb{B}$ 59'37	
morning max el	5892 Feb 01 07:33	21° $\mathbb{B}$ 54'14	20°21'35	direct	5893 Jan 07 10:01	1° $\mathbb{B}$ 52'31	
	5892 Feb 08 02:55	0° $\approx$		morning max el	5893 Jan 14 11:59	5° $\mathbb{B}$ 48'58	19°18'58
desc. node	5892 Feb 16 17:46	12° $\approx$ 10'52		greatest brilliancy	5893 Jan 27 18:36	23° $\mathbb{B}$ 31'56	-0.7m
	5892 Feb 28 12:56	0° $\mathbb{H}$			5893 Feb 01 00:52	0° $\approx$	
morning set	5892 Feb 29 12:36	1° $\mathbb{H}$ 31'25		desc. node	5893 Feb 02 14:47	2° $\approx$ 25'20	
max. Earth dist.	5892 Mar 10 04:36	16° $\mathbb{H}$ 45'15	1.43594 AU	morning set	5893 Feb 07 11:51	9° $\approx$ 56'45	
					5893 Feb 20 08:21	0° $\mathbb{H}$	
superior conj	5892 Mar 16 08:18	26° $\mathbb{H}$ 47'15	-2°09'43	max. Earth dist.	5893 Feb 20 18:23	0° $\mathbb{H}$ 39'32	1.44829 AU
minimum elong	5892 Mar 16 07:48	26° $\mathbb{H}$ 45'10	2°09'44				
	5892 Mar 18 06:39	0° $\mathbb{Y}$		superior conj	5893 Feb 24 04:31	6° $\mathbb{H}$ 04'55	-1°58'25
evening rise	5892 Mar 28 21:35	18° $\mathbb{Y}$ 12'14		minimum elong	5893 Feb 23 21:33	5° $\mathbb{H}$ 37'09	1°58'00
	5892 Apr 04 16:56	0° $\mathbb{B}$		evening rise	5893 Mar 10 12:21	29° $\mathbb{H}$ 23'06	
asc. node	5892 Apr 08 18:31	6° $\mathbb{B}$ 38'34			5893 Mar 10 21:15	0° $\mathbb{Y}$	
evening max el	5892 Apr 15 06:36	15° $\mathbb{B}$ 10'27	18°07'18	asc. node	5893 Mar 26 15:33	24° $\mathbb{Y}$ 53'30	
retrograde	5892 Apr 21 17:33	18° $\mathbb{B}$ 32'07		evening max el	5893 Mar 29 19:22	28° $\mathbb{Y}$ 34'19	18°22'55
evening set	5892 Apr 24 12:13	17° $\mathbb{B}$ 53'48			5893 Mar 31 09:10	0° $\mathbb{B}$	
inferior conj	5892 Apr 30 19:21	12° $\mathbb{B}$ 45'12	3°12'05	retrograde	5893 Apr 05 06:03	2° $\mathbb{B}$ 03'05	
minimum elong	5892 Apr 30 21:33	12° $\mathbb{B}$ 39'31	3°11'43	evening set	5893 Apr 08 07:15	1° $\mathbb{B}$ 12'05	
min. Earth dist.	5892 May 03 17:35	9° $\mathbb{B}$ 44'02	0.62217 AU		5893 Apr 10 01:05	30° $\mathbb{R}$ $\mathbb{Y}$	
morning rise	5892 May 07 05:12	6° $\mathbb{B}$ 41'31		inferior conj	5893 Apr 14 04:03	25° $\mathbb{Y}$ 45'06	3°28'55
direct	5892 May 14 00:39	4° $\mathbb{B}$ 12'46		minimum elong	5893 Apr 14 04:41	25° $\mathbb{Y}$ 43'16	3°28'52
desc. node	5892 May 14 17:00	4° $\mathbb{B}$ 14'10		min. Earth dist.	5893 Apr 16 11:38	23° $\mathbb{Y}$ 04'54	0.64207 AU
morning max el	5892 May 28 03:30	12° $\mathbb{B}$ 14'00	27°53'23	morning rise	5893 Apr 20 01:13	19° $\mathbb{Y}$ 33'24	
	5892 Jun 11 05:27	0° $\mathbb{I}$		direct	5893 Apr 26 20:02	16° $\mathbb{Y}$ 47'47	
	5892 Jun 28 14:25	0° $\mathbb{E}$		desc. node	5893 May 01 14:02	17° $\mathbb{Y}$ 56'50	
morning set	5892 Jun 30 21:23	4° $\mathbb{E}$ 35'13		morning max el	5893 May 10 12:29	24° $\mathbb{Y}$ 45'46	27°31'09
asc. node	5892 Jul 05 17:48	14° $\mathbb{E}$ 44'06			5893 May 15 06:26	0° $\mathbb{B}$	
max. Earth dist.	5892 Jul 06 11:04	16° $\mathbb{E}$ 16'58	1.32302 AU		5893 Jun 04 15:56	0° $\mathbb{I}$	
				morning set	5893 Jun 14 14:53	18° $\mathbb{I}$ 22'33	
superior conj	5892 Jul 08 09:57	20° $\mathbb{E}$ 31'13	0°27'26	max. Earth dist.	5893 Jun 19 11:22	28° $\mathbb{I}$ 13'09	1.33169 AU
minimum elong	5892 Jul 08 08:42	20° $\mathbb{E}$ 24'28	0°27'09		5893 Jun 20 07:49	0° $\mathbb{E}$	
	5892 Jul 12 18:02	0° $\mathbb{Q}$		superior conj	5893 Jun 22 15:30	4° $\mathbb{E}$ 54'41	0°00'18
evening rise	5892 Jul 15 06:54	5° $\mathbb{Q}$ 28'23		minimum elong	5893 Jun 22 15:29	4° $\mathbb{E}$ 54'36	0°00'16
	5892 Jul 28 05:18	0° $\mathbb{P}$		behind sun begin	5893 Jun 22 10:05	4° $\mathbb{E}$ 25'46	
evening max el	5892 Aug 09 00:58	15° $\mathbb{P}$ 16'13	24°13'05	behind sun end	5893 Jun 22 20:54	5° $\mathbb{E}$ 23'28	
desc. node	5892 Aug 10 16:13	16° $\mathbb{P}$ 45'51		asc. node	5893 Jun 22 14:49	4° $\mathbb{E}$ 50'58	
retrograde	5892 Aug 22 20:05	22° $\mathbb{P}$ 12'38		evening rise	5893 Jun 29 18:24	20° $\mathbb{E}$ 10'33	
evening set	5892 Aug 27 15:35	21° $\mathbb{P}$ 21'17			5893 Jul 04 13:27	0° $\mathbb{Q}$	
min. Earth dist.	5892 Sep 02 11:49	18° $\mathbb{P}$ 26'19	0.56408 AU	evening max el	5893 Jul 21 14:02	25° $\mathbb{Q}$ 35'18	22°35'00
inferior conj	5892 Sep 04 23:47	16° $\mathbb{P}$ 52'56	-5°21'00		5893 Jul 27 06:38	0° $\mathbb{P}$	
minimum elong	5892 Sep 04 22:18	16° $\mathbb{P}$ 55'15	5°20'56	desc. node	5893 Jul 28 13:15	0° $\mathbb{P}$ 39'54	
morning rise	5892 Sep 13 07:26	12° $\mathbb{P}$ 52'55		retrograde	5893 Aug 03 17:01	2° $\mathbb{P}$ 07'15	
direct	5892 Sep 16 00:17	12° $\mathbb{P}$ 33'41		evening set	5893 Aug 07 00:05	1° $\mathbb{P}$ 43'28	
morning max el	5892 Sep 25 19:39	17° $\mathbb{P}$ 09'02	19°43'24		5893 Aug 11 15:21	30° $\mathbb{R}$ $\mathbb{Q}$	
asc. node	5892 Oct 01 17:06	24° $\mathbb{P}$ 14'30					

min. Earth dist.	5893 Aug 14 21:32	28° $\Omega$ 15'41	0.55161 AU	evening set	5894 Jul 17 11:23	11° $\Omega$ 48'38	
inferior conj	5893 Aug 16 02:03	27° $\Omega$ 35'09	-4°44'23	inferior conj	5894 Jul 26 19:10	7° $\Omega$ 50'59	-3°16'35
minimum elong	5893 Aug 15 18:21	27° $\Omega$ 46'08	4°42'56	minimum elong	5894 Jul 26 10:41	8° $\Omega$ 02'56	3°13'55
morning rise	5893 Aug 24 14:32	23° $\Omega$ 45'36		min. Earth dist.	5894 Jul 27 07:35	7° $\Omega$ 33'30	0.54767 AU
direct	5893 Aug 27 17:21	23° $\Omega$ 23'20		morning rise	5894 Aug 04 10:21	3° $\Omega$ 53'57	
morning max el	5893 Sep 08 02:30	28° $\Omega$ 42'05	21°04'05	direct	5894 Aug 08 02:13	3° $\Omega$ 25'10	
	5893 Sep 09 10:16	0° $\mathbb{M}$		morning max el	5894 Aug 20 22:20	9° $\Omega$ 31'56	22°41'53
asc. node	5893 Sep 18 14:07	12° $\mathbb{M}$ 33'05			5894 Sep 04 15:49	0° $\mathbb{M}$	
morning set	5893 Sep 27 19:30	0° $\underline{\Omega}$ 11'26		asc. node	5894 Sep 05 11:07	1° $\mathbb{M}$ 28'32	
	5893 Sep 27 17:17	0° $\underline{\Omega}$		morning set	5894 Sep 12 06:15	15° $\mathbb{M}$ 02'16	
superior conj	5893 Oct 05 04:21	15° $\underline{\Omega}$ 33'45	1°42'45	superior conj	5894 Sep 19 07:56	0° $\underline{\Omega}$ 08'43	1°41'17
minimum elong	5893 Oct 05 04:45	15° $\underline{\Omega}$ 35'48	1°42'45	minimum elong	5894 Sep 19 07:03	0° $\underline{\Omega}$ 04'01	1°41'15
max. Earth dist.	5893 Oct 09 17:44	24° $\underline{\Omega}$ 46'43	1.35528 AU		5894 Sep 19 06:17	0° $\underline{\Omega}$	
	5893 Oct 12 10:11	0° $\mathbb{M}$		max. Earth dist.	5894 Sep 22 11:23	6° $\underline{\Omega}$ 45'58	1.33975 AU
evening rise	5893 Oct 13 20:17	2° $\mathbb{M}$ 41'39		evening rise	5894 Sep 27 04:42	16° $\underline{\Omega}$ 18'53	
desc. node	5893 Oct 24 12:29	21° $\mathbb{M}$ 23'04			5894 Oct 04 12:55	0° $\mathbb{M}$	
	5893 Oct 30 00:25	0° $\mathbb{M}$		desc. node	5894 Oct 11 09:31	11° $\mathbb{M}$ 28'33	
evening max el	5893 Nov 18 07:41	24° $\mathbb{M}$ 30'26	26°27'33		5894 Oct 24 12:34	0° $\mathbb{M}$	
	5893 Nov 25 08:58	0° $\mathbb{M}$		evening max el	5894 Oct 31 20:29	8° $\mathbb{M}$ 03'18	27°10'45
retrograde	5893 Dec 01 04:31	1° $\mathbb{M}$ 43'42		retrograde	5894 Nov 14 05:17	15° $\mathbb{M}$ 21'25	
	5893 Dec 06 10:28	30° $\mathbb{M}$ 43'42		evening set	5894 Nov 21 01:51	12° $\mathbb{M}$ 42'15	
evening set	5893 Dec 07 14:08	29° $\mathbb{M}$ 08'18		min. Earth dist.	5894 Nov 24 23:03	9° $\mathbb{M}$ 00'34	0.65051 AU
min. Earth dist.	5893 Dec 11 17:25	24° $\mathbb{M}$ 51'38	0.66364 AU	inferior conj	5894 Nov 27 03:18	6° $\mathbb{M}$ 35'44	-1°46'37
inferior conj	5893 Dec 13 09:49	22° $\mathbb{M}$ 49'40	-0°43'49	minimum elong	5894 Nov 27 06:25	6° $\mathbb{M}$ 27'05	1°45'18
minimum elong	5893 Dec 13 11:01	22° $\mathbb{M}$ 46'01	0°43'16	asc. node	5894 Dec 02 10:23	1° $\mathbb{M}$ 39'08	
asc. node	5893 Dec 15 13:21	20° $\mathbb{M}$ 19'24		morning rise	5894 Dec 03 12:09	1° $\mathbb{M}$ 03'43	
morning rise	5893 Dec 19 08:36	17° $\mathbb{M}$ 04'31		direct	5894 Dec 06 03:42	0° $\mathbb{M}$ 26'30	
direct	5893 Dec 22 08:17	16° $\mathbb{M}$ 14'15		morning max el	5894 Dec 12 14:43	3° $\mathbb{M}$ 52'23	18°02'11
morning max el	5893 Dec 28 23:09	19° $\mathbb{M}$ 50'15	18°32'13		5894 Dec 30 02:49	0° $\mathbb{M}$	
	5894 Jan 05 20:40	0° $\mathbb{M}$		morning set	5894 Dec 30 12:02	0° $\mathbb{M}$ 38'12	
morning set	5894 Jan 18 09:06	19° $\mathbb{M}$ 33'00		desc. node	5895 Jan 07 08:47	13° $\mathbb{M}$ 32'32	
desc. node	5894 Jan 20 11:46	22° $\mathbb{M}$ 54'00					
	5894 Jan 24 23:31	0° $\approx$		superior conj	5895 Jan 13 17:01	23° $\mathbb{M}$ 43'17	-0°43'29
superior conj	5894 Feb 03 09:00	14° $\approx$ 45'40	-1°27'31	minimum elong	5895 Jan 13 11:44	23° $\mathbb{M}$ 22'16	0°42'44
minimum elong	5894 Feb 02 23:36	14° $\approx$ 08'50	1°26'29	max. Earth dist.	5895 Jan 17 08:41	29° $\mathbb{M}$ 29'48	1.45154 AU
max. Earth dist.	5894 Feb 03 12:52	15° $\approx$ 00'48	1.45367 AU		5895 Jan 17 16:22	0° $\approx$	
	5894 Feb 13 01:53	0° $\mathbb{M}$		evening rise	5895 Jan 29 23:07	19° $\approx$ 06'42	
evening rise	5894 Feb 19 03:44	9° $\mathbb{M}$ 36'56			5895 Feb 06 01:04	0° $\mathbb{M}$	
greatest brilliancy	5894 Feb 28 04:10	23° $\mathbb{M}$ 54'31	-0.8m	greatest brilliancy	5895 Feb 12 15:31	9° $\mathbb{M}$ 58'27	-0.7m
	5894 Mar 04 02:49	0° $\mathbb{Y}$		evening max el	5895 Feb 24 11:46	25° $\mathbb{M}$ 38'53	19°46'13
evening max el	5894 Mar 13 05:45	12° $\mathbb{Y}$ 05'10	18°56'23	asc. node	5895 Feb 28 09:37	28° $\mathbb{M}$ 51'50	
asc. node	5894 Mar 13 12:35	12° $\mathbb{Y}$ 22'16		retrograde	5895 Mar 03 22:21	29° $\mathbb{M}$ 56'57	
retrograde	5894 Mar 20 00:38	15° $\mathbb{Y}$ 53'18		evening set	5895 Mar 07 14:19	28° $\mathbb{M}$ 38'20	
evening set	5894 Mar 23 08:47	14° $\mathbb{Y}$ 48'49		inferior conj	5895 Mar 13 00:08	22° $\mathbb{M}$ 39'35	3°14'35
inferior conj	5894 Mar 28 22:40	9° $\mathbb{Y}$ 04'58	3°28'27	minimum elong	5895 Mar 12 22:23	22° $\mathbb{M}$ 45'24	3°14'20
minimum elong	5894 Mar 28 21:55	9° $\mathbb{Y}$ 07'21	3°28'25	min. Earth dist.	5895 Mar 14 01:18	21° $\mathbb{M}$ 15'47	0.67028 AU
min. Earth dist.	5894 Mar 30 14:37	6° $\mathbb{Y}$ 59'37	0.65830 AU	morning rise	5895 Mar 18 06:13	16° $\mathbb{M}$ 24'15	
morning rise	5894 Apr 03 10:37	2° $\mathbb{Y}$ 50'04		direct	5895 Mar 24 06:15	13° $\mathbb{M}$ 43'32	
direct	5894 Apr 09 22:11	0° $\mathbb{Y}$ 01'09		desc. node	5895 Apr 05 08:04	20° $\mathbb{M}$ 56'42	
desc. node	5894 Apr 18 11:03	3° $\mathbb{Y}$ 41'42		morning max el	5895 Apr 05 08:02	20° $\mathbb{M}$ 56'36	25°23'06
morning max el	5894 Apr 22 22:35	7° $\mathbb{Y}$ 43'42	26°38'13		5895 Apr 13 03:47	0° $\mathbb{Y}$	
	5894 May 10 05:44	0° $\mathbb{Y}$			5895 May 03 10:31	0° $\mathbb{Y}$	
	5894 May 28 01:13	0° $\mathbb{Y}$		morning set	5895 May 11 12:07	13° $\mathbb{Y}$ 58'05	
morning set	5894 May 28 21:16	1° $\mathbb{Y}$ 34'27		max. Earth dist.	5895 May 15 04:43	20° $\mathbb{Y}$ 46'26	1.36283 AU
max. Earth dist.	5894 Jun 02 01:30	9° $\mathbb{Y}$ 40'41	1.34504 AU		5895 May 19 23:45	0° $\mathbb{Y}$	
superior conj	5894 Jun 06 14:55	18° $\mathbb{Y}$ 55'56	-0°29'09	superior conj	5895 May 21 05:21	2° $\mathbb{Y}$ 26'26	-0°59'29
minimum elong	5894 Jun 06 16:31	19° $\mathbb{Y}$ 04'11	0°28'51	minimum elong	5895 May 21 08:44	2° $\mathbb{Y}$ 43'15	0°58'55
asc. node	5894 Jun 09 11:50	24° $\mathbb{Y}$ 55'18		asc. node	5895 May 27 08:51	14° $\mathbb{Y}$ 52'20	
	5894 Jun 11 21:48	0° $\mathbb{Y}$		evening rise	5895 May 29 09:08	18° $\mathbb{Y}$ 57'59	
evening rise	5894 Jun 14 03:53	4° $\mathbb{Y}$ 42'54			5895 Jun 03 23:59	0° $\mathbb{Y}$	
	5894 Jun 28 05:25	0° $\mathbb{Y}$		evening max el	5895 Jun 15 19:59	17° $\mathbb{Y}$ 25'36	19°49'26
evening max el	5894 Jul 03 10:52	6° $\mathbb{Y}$ 11'28	21°03'56	retrograde	5895 Jun 25 22:06	22° $\mathbb{Y}$ 22'22	
retrograde	5894 Jul 15 05:49	12° $\mathbb{Y}$ 00'20		evening set	5895 Jun 27 19:35	22° $\mathbb{Y}$ 12'39	
desc. node	5894 Jul 15 10:16	12° $\mathbb{Y}$ 00'15		desc. node	5895 Jul 02 07:18	20° $\mathbb{Y}$ 41'32	
				inferior conj	5895 Jul 06 17:29	18° $\mathbb{Y}$ 10'59	-1°19'51





















































































































































































































































minimum elong	5895 Jul 06 13:47	18°☿16'39	1°18'29			5896 Jun 15 00:19	30°♄II	
min. Earth dist.	5895 Jul 08 19:55	16°☿53'37	0.55333 AU	inferior conj		5896 Jun 16 09:03	29°II02'45	0°31'49
morning rise	5895 Jul 15 05:59	13°☿46'21		minimum elong		5896 Jun 16 10:18	29°II00'32	0°31'21
direct	5895 Jul 19 15:54	13°☿03'29		desc. node		5896 Jun 18 04:20	27°II45'33	
morning max el	5895 Aug 02 12:18	19°☿55'00	24°26'24	min. Earth dist.		5896 Jun 19 11:49	26°II50'46	0.56758 AU
	5895 Aug 11 01:38	0°♊		morning rise		5896 Jun 24 11:23	24°II01'33	
asc. node	5895 Aug 23 08:09	20°♊50'48		direct		5896 Jun 29 19:25	22°II53'24	
morning set	5895 Aug 27 17:59	29°♊54'26				5896 Jul 13 19:00	0°☿	
	5895 Aug 27 19:02	0°♋		morning max el		5896 Jul 14 02:49	0°☿18'39	26°02'00
						5896 Aug 03 20:28	0°♊	
superior conj	5895 Sep 03 16:19	14°♋56'16	1°33'45	asc. node		5896 Aug 09 05:12	10°♊32'38	
minimum elong	5895 Sep 03 14:33	14°♋46'35	1°33'36	morning set		5896 Aug 11 05:06	14°♊43'05	
max. Earth dist.	5895 Sep 05 13:17	18°♋59'58	1.32838 AU					
evening rise	5895 Sep 10 23:51	0°♌25'36		superior conj		5896 Aug 18 03:23	29°♊49'38	1°20'55
	5895 Sep 10 18:49	0°♌		minimum elong		5896 Aug 18 01:09	29°♊37'18	1°20'37
	5895 Sep 27 12:57	0°♍				5896 Aug 18 05:16	0°♋	
desc. node	5895 Sep 28 06:33	1°♍07'12		max. Earth dist.		5896 Aug 18 21:20	1°♋28'33	1.32135 AU
evening max el	5895 Oct 14 07:33	21°♍13'05	27°27'35	evening rise		5896 Aug 25 02:39	14°♋53'14	
retrograde	5895 Oct 27 23:48	28°♍30'10				5896 Sep 01 18:54	0°♌	
evening set	5895 Nov 04 02:57	25°♍56'05		desc. node		5896 Sep 14 03:35	20°♌08'06	
min. Earth dist.	5895 Nov 07 19:23	22°♍46'27	0.63399 AU			5896 Sep 21 22:21	0°♍	
inferior conj	5895 Nov 10 11:23	20°♍06'37	-2°51'32	evening max el		5896 Sep 25 14:42	3°♍47'36	27°12'49
minimum elong	5895 Nov 10 16:28	19°♍53'54	2°49'40	retrograde		5896 Oct 09 11:19	11°♍00'24	
morning rise	5895 Nov 17 07:37	14°♍50'58		evening set		5896 Oct 16 13:45	8°♍43'00	
asc. node	5895 Nov 19 07:25	14°♍23'57		min. Earth dist.		5896 Oct 20 05:21	5°♍57'32	0.61474 AU
direct	5895 Nov 19 17:27	14°♍23'06		inferior conj		5896 Oct 23 06:57	3°♍14'44	-3°54'27
morning max el	5895 Nov 26 07:46	17°♍48'04	17°49'30	minimum elong		5896 Oct 23 13:23	3°♍00'28	3°52'35
	5895 Dec 05 03:06	0°♎				5896 Oct 27 07:12	30°♎♌	
morning set	5895 Dec 12 16:53	12°♎58'21		morning rise		5896 Oct 30 15:02	28°♌18'28	
	5895 Dec 22 15:49	0°♏		direct		5896 Nov 01 22:03	27°♌56'31	
				asc. node		5896 Nov 05 04:28	28°♌42'54	
superior conj	5895 Dec 24 21:48	3°♏43'59	0°02'24			5896 Nov 07 06:16	0°♍	
minimum elong	5895 Dec 24 22:03	3°♏45'04	0°02'23	morning max el		5896 Nov 08 23:04	1°♍29'04	17°55'02
behind sun begin	5895 Dec 24 12:36	3°♏06'03		morning set		5896 Nov 24 17:04	26°♍13'16	
behind sun end	5895 Dec 25 07:30	4°♏24'01				5896 Nov 26 18:49	0°♎	
desc. node	5895 Dec 25 05:51	4°♏17'13						
max. Earth dist.	5895 Dec 31 02:29	13°♏47'27	1.44222 AU	superior conj		5896 Dec 05 04:50	15°♎00'45	0°41'38
evening rise	5896 Jan 09 09:32	28°♏21'27		minimum elong		5896 Dec 05 08:08	15°♎15'05	0°41'12
	5896 Jan 10 11:11	0°♐		desc. node		5896 Dec 11 02:51	25°♎03'51	
	5896 Jan 30 21:50	0°♑		max. Earth dist.		5896 Dec 12 15:56	27°♎37'08	1.42696 AU
evening max el	5896 Feb 07 12:26	9°♑14'09	20°50'04			5896 Dec 14 02:53	0°♒	
asc. node	5896 Feb 15 06:39	14°♑07'45		evening rise		5896 Dec 19 02:40	7°♒59'25	
retrograde	5896 Feb 15 20:44	14°♑09'35				5897 Jan 02 16:22	0°♓	
evening set	5896 Feb 19 21:50	12°♑36'16		evening max el		5897 Jan 20 07:48	22°♓50'50	22°04'22
inferior conj	5896 Feb 25 05:53	6°♑25'15	2°49'58	retrograde		5897 Jan 29 17:50	28°♓26'36	
minimum elong	5896 Feb 25 03:36	6°♑33'06	2°49'26	asc. node		5897 Feb 01 03:42	27°♓56'02	
min. Earth dist.	5896 Feb 25 17:42	5°♑44'33	0.67796 AU	evening set		5897 Feb 03 05:36	26°♓38'02	
morning rise	5896 Mar 01 09:12	0°♑11'19		inferior conj		5897 Feb 08 13:46	20°♓17'56	2°16'12
	5896 Mar 01 14:19	30°♒♓		minimum elong		5897 Feb 08 11:26	20°♓26'05	2°15'29
direct	5896 Mar 06 19:28	27°♓47'04		min. Earth dist.		5897 Feb 08 13:28	20°♓18'58	0.68154 AU
	5896 Mar 12 17:30	0°♒		morning rise		5897 Feb 13 17:05	14°♓07'03	
morning max el	5896 Mar 17 16:52	4°♒17'13	23°55'59	direct		5897 Feb 18 12:56	12°♓03'56	
desc. node	5896 Mar 22 05:07	9°♒16'43		morning max el		5897 Feb 28 03:27	17°♓43'39	22°26'51
	5896 Apr 06 10:27	0°♓		desc. node		5897 Mar 09 02:09	28°♓22'46	
morning set	5896 Apr 22 05:59	25°♓19'13				5897 Mar 10 07:16	0°♒	
	5896 Apr 24 22:36	0°♔				5897 Mar 30 13:04	0°♓	
max. Earth dist.	5896 Apr 26 00:50	1°♔56'00	1.38390 AU	morning set		5897 Apr 02 21:03	5°♓22'36	
				max. Earth dist.		5897 Apr 07 21:09	13°♓41'47	1.40601 AU
superior conj	5896 May 03 07:21	15°♔17'56	-1°28'29					
minimum elong	5896 May 03 12:13	15°♔40'58	1°27'50	superior conj		5897 Apr 15 16:29	27°♓19'24	-1°52'48
	5896 May 10 21:11	0°♕		minimum elong		5897 Apr 15 21:32	27°♓42'08	1°52'22
evening rise	5896 May 12 07:34	2°♕48'48				5897 Apr 17 04:00	0°♔	
asc. node	5896 May 13 05:54	4°♕38'02		evening rise		5897 Apr 25 19:48	16°♔06'24	
evening max el	5896 May 28 17:07	29°♕22'46	18°55'00	asc. node		5897 Apr 30 02:57	24°♔07'01	
	5896 May 29 08:55	0°☿				5897 May 03 10:19	0°♕	
retrograde	5896 Jun 06 04:55	3°☿33'00		evening max el		5897 May 11 23:06	11°♕55'56	18°21'00
evening set	5896 Jun 08 05:50	3°☿19'32		retrograde		5897 May 19 06:38	15°♕34'27	

evening set	5897 May 21 14:38	15° $\Pi$ 13'09		inferior conj	5898 May 11 07:18	22° $\mathcal{B}$ 49'29	2°52'27
inferior conj	5897 May 28 22:09	10° $\Pi$ 36'17	1°57'17	minimum elong	5898 May 11 10:15	22° $\mathcal{B}$ 42'22	2°51'49
minimum elong	5897 May 29 01:28	10° $\Pi$ 29'23	1°56'16	min. Earth dist.	5898 May 14 12:09	19° $\mathcal{B}$ 45'44	0.60970 AU
min. Earth dist.	5897 Jun 01 08:31	7° $\Pi$ 46'24	0.58755 AU	morning rise	5898 May 18 01:53	16° $\mathcal{B}$ 54'16	
morning rise	5897 Jun 05 09:11	5° $\Pi$ 03'06		desc. node	5898 May 22 22:25	14° $\mathcal{B}$ 50'44	
desc. node	5897 Jun 05 01:22	5° $\Pi$ 13'51		direct	5898 May 24 18:09	14° $\mathcal{B}$ 40'59	
direct	5897 Jun 11 13:03	3° $\Pi$ 21'59		morning max el	5898 Jun 08 00:22	22° $\mathcal{B}$ 38'11	27°49'44
morning max el	5897 Jun 25 22:20	11° $\Pi$ 08'01	27°13'16		5898 Jun 14 12:36	0° $\Pi$	
	5897 Jul 10 14:08	0° $\mathcal{E}$			5898 Jul 03 17:37	0° $\mathcal{E}$	
morning set	5897 Jul 26 13:56	29° $\mathcal{E}$ 23'04		morning set	5898 Jul 10 18:37	13° $\mathcal{E}$ 48'08	
	5897 Jul 26 20:57	0° $\mathcal{N}$		asc. node	5898 Jul 13 23:15	20° $\mathcal{E}$ 31'09	
asc. node	5897 Jul 27 02:15	0° $\mathcal{N}$ 27'57		max. Earth dist.	5898 Jul 16 18:19	26° $\mathcal{E}$ 34'16	1.32019 AU
superior conj	5897 Aug 02 15:15	14° $\mathcal{N}$ 42'34	1°03'23	superior conj	5898 Jul 18 02:06	29° $\mathcal{E}$ 28'33	0°41'39
minimum elong	5897 Aug 02 13:02	14° $\mathcal{N}$ 30'15	1°02'59	minimum elong	5898 Jul 18 00:22	29° $\mathcal{E}$ 19'00	0°41'17
max. Earth dist.	5897 Aug 02 08:16	14° $\mathcal{N}$ 03'55	1.31861 AU		5898 Jul 18 07:49	0° $\mathcal{N}$	
evening rise	5897 Aug 09 10:34	29° $\mathcal{N}$ 34'03		evening rise	5898 Jul 24 21:23	14° $\mathcal{N}$ 20'21	
	5897 Aug 09 15:28	0° $\mathcal{N}$			5898 Aug 01 16:34	0° $\mathcal{N}$	
	5897 Aug 26 01:32	0° $\mathcal{E}$		desc. node	5898 Aug 18 21:38	25° $\mathcal{N}$ 09'20	
desc. node	5897 Sep 01 00:36	8° $\mathcal{E}$ 16'11		evening max el	5898 Aug 20 08:35	26° $\mathcal{N}$ 36'27	25°06'42
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retrograde	5897 Sep 21 14:13	22° $\mathcal{E}$ 44'25		retrograde	5898 Sep 03 06:25	3° $\mathcal{E}$ 38'15	
evening set	5897 Sep 28 05:35	20° $\mathcal{E}$ 55'43		evening set	5898 Sep 08 21:42	2° $\mathcal{E}$ 25'55	
min. Earth dist.	5897 Oct 02 05:01	18° $\mathcal{E}$ 20'52	0.59408 AU		5898 Sep 13 09:56	30° $\mathcal{R}$ $\mathcal{N}$	
inferior conj	5897 Oct 05 10:35	15° $\mathcal{E}$ 51'15	-4°47'51	min. Earth dist.	5898 Sep 13 20:03	29° $\mathcal{N}$ 43'46	0.57415 AU
minimum elong	5897 Oct 05 16:32	15° $\mathcal{E}$ 39'43	4°46'44	inferior conj	5898 Sep 16 18:54	27° $\mathcal{N}$ 45'16	-5°19'21
morning rise	5897 Oct 13 05:39	11° $\mathcal{E}$ 17'02		minimum elong	5898 Sep 16 21:06	27° $\mathcal{N}$ 41'35	5°19'13
direct	5897 Oct 15 13:32	10° $\mathcal{E}$ 57'56		morning rise	5898 Sep 24 22:46	23° $\mathcal{N}$ 33'57	
asc. node	5897 Oct 23 01:32	14° $\mathcal{E}$ 28'23		direct	5898 Sep 27 11:33	23° $\mathcal{N}$ 15'12	
morning max el	5897 Oct 23 09:14	14° $\mathcal{E}$ 46'39	18°20'11	morning max el	5898 Oct 06 10:46	27° $\mathcal{N}$ 29'55	19°06'38
	5897 Nov 02 20:55	0° $\mathcal{N}$			5898 Oct 08 19:06	0° $\mathcal{E}$	
morning set	5897 Nov 08 06:57	10° $\mathcal{N}$ 07'12		asc. node	5898 Oct 09 22:34	1° $\mathcal{E}$ 24'45	
				morning set	5898 Oct 23 06:11	24° $\mathcal{E}$ 26'56	
superior conj	5897 Nov 17 11:29	27° $\mathcal{N}$ 25'57	1°10'58		5898 Oct 26 01:14	0° $\mathcal{N}$	
minimum elong	5897 Nov 17 15:14	27° $\mathcal{N}$ 43'05	1°10'33	superior conj	5898 Oct 31 12:26	10° $\mathcal{N}$ 44'03	1°30'14
	5897 Nov 18 21:19	0° $\mathcal{N}$		minimum elong	5898 Oct 31 15:10	10° $\mathcal{N}$ 57'15	1°30'00
max. Earth dist.	5897 Nov 25 00:41	10° $\mathcal{N}$ 49'00	1.40760 AU	max. Earth dist.	5898 Nov 07 06:15	23° $\mathcal{N}$ 19'38	1.38642 AU
desc. node	5897 Nov 27 23:52	15° $\mathcal{N}$ 49'43		evening rise	5898 Nov 11 01:17	0° $\mathcal{N}$ 01'53	
evening rise	5897 Nov 29 14:40	18° $\mathcal{N}$ 30'18			5898 Nov 11 00:51	0° $\mathcal{N}$	
	5897 Dec 06 19:39	0° $\mathcal{E}$		desc. node	5898 Nov 14 20:52	6° $\mathcal{N}$ 30'22	
	5897 Dec 28 03:42	0° $\mathcal{E}$			5898 Nov 30 03:57	0° $\mathcal{E}$	
evening max el	5898 Jan 02 23:13	6° $\mathcal{E}$ 30'53	23°23'55	evening max el	5898 Dec 16 12:24	20° $\mathcal{E}$ 14'03	24°42'33
retrograde	5898 Jan 13 12:07	12° $\mathcal{E}$ 44'38		retrograde	5898 Dec 28 02:30	26° $\mathcal{E}$ 59'07	
evening set	5898 Jan 18 12:03	10° $\mathcal{E}$ 40'38		evening set	5899 Jan 02 15:38	24° $\mathcal{E}$ 40'26	
asc. node	5898 Jan 19 00:45	10° $\mathcal{E}$ 12'31		asc. node	5899 Jan 05 21:48	21° $\mathcal{E}$ 11'49	
inferior conj	5898 Jan 23 21:53	4° $\mathcal{E}$ 15'09	1°34'29	min. Earth dist.	5899 Jan 07 05:43	19° $\mathcal{E}$ 29'02	0.67726 AU
minimum elong	5898 Jan 23 19:57	4° $\mathcal{E}$ 21'49	1°33'47	inferior conj	5899 Jan 08 04:25	18° $\mathcal{E}$ 13'44	0°45'36
min. Earth dist.	5898 Jan 23 10:16	4° $\mathcal{E}$ 55'04	0.68127 AU	minimum elong	5899 Jan 08 03:20	18° $\mathcal{E}$ 17'19	0°45'11
	5898 Jan 27 05:32	30° $\mathcal{R}$ $\mathcal{E}$		morning rise	5899 Jan 13 15:11	12° $\mathcal{E}$ 14'07	
morning rise	5898 Jan 29 03:46	28° $\mathcal{E}$ 08'56		direct	5899 Jan 17 07:55	10° $\mathcal{E}$ 55'41	
direct	5898 Feb 02 09:31	26° $\mathcal{E}$ 28'40		morning max el	5899 Jan 24 19:25	15° $\mathcal{E}$ 08'30	19°53'09
	5898 Feb 09 09:45	0° $\mathcal{E}$			5899 Feb 05 08:45	0° $\mathcal{E}$	
morning max el	5898 Feb 10 19:30	1° $\mathcal{E}$ 20'01	21°04'02	greatest brilliancy	5899 Feb 07 20:20	3° $\mathcal{E}$ 38'05	-0.6m
desc. node	5898 Feb 23 23:10	18° $\mathcal{E}$ 02'13		desc. node	5899 Feb 10 20:10	8° $\mathcal{E}$ 05'43	
	5898 Mar 04 02:59	0° $\mathcal{N}$		morning set	5899 Feb 20 05:00	22° $\mathcal{E}$ 21'56	
morning set	5898 Mar 13 08:26	14° $\mathcal{N}$ 09'32			5899 Feb 25 03:07	0° $\mathcal{N}$	
max. Earth dist.	5898 Mar 21 00:06	26° $\mathcal{N}$ 23'58	1.42627 AU	max. Earth dist.	5899 Mar 03 10:52	9° $\mathcal{N}$ 57'55	1.44197 AU
	5898 Mar 23 04:42	0° $\mathcal{Y}$		superior conj	5899 Mar 08 13:51	18° $\mathcal{N}$ 12'22	-2°07'23
superior conj	5898 Mar 28 03:49	8° $\mathcal{Y}$ 19'49	-2°07'40	minimum elong	5899 Mar 08 10:33	17° $\mathcal{N}$ 58'59	2°07'18
minimum elong	5898 Mar 28 06:22	8° $\mathcal{Y}$ 30'39	2°07'37		5899 Mar 15 17:26	0° $\mathcal{Y}$	
evening rise	5898 Apr 08 17:51	28° $\mathcal{Y}$ 41'42		evening rise	5899 Mar 21 21:14	10° $\mathcal{Y}$ 25'40	
	5898 Apr 09 11:18	0° $\mathcal{B}$			5899 Apr 02 15:32	0° $\mathcal{B}$	
asc. node	5898 Apr 16 23:59	13° $\mathcal{B}$ 13'25		asc. node	5899 Apr 03 21:01	1° $\mathcal{B}$ 49'53	
evening max el	5898 Apr 25 10:15	24° $\mathcal{B}$ 55'28	18°06'46	evening max el	5899 Apr 08 23:14	8° $\mathcal{B}$ 12'31	18°11'41
retrograde	5898 May 02 01:27	28° $\mathcal{B}$ 18'49		retrograde	5899 Apr 15 08:55	11° $\mathcal{B}$ 35'46	
evening set	5898 May 04 16:28	27° $\mathcal{B}$ 47'03					



evening set	5899 Apr 18 06:23	10°♄52'04			5900 Mar 08 11:52	0°♃	
inferior conj	5899 Apr 24 08:37	5°♄35'10	3°21'37	asc. node	5900 Mar 21 18:03	19°♃46'25	
minimum elong	5899 Apr 24 10:10	5°♄30'58	3°21'27	evening max el	5900 Mar 23 11:09	21°♃39'14	18°35'04
min. Earth dist.	5899 Apr 27 00:46	2°♄41'03	0.63095 AU	retrograde	5900 Mar 30 00:32	25°♃15'19	
	5899 Apr 29 20:21	30°♄		evening set	5900 Apr 02 04:31	24°♃18'46	
morning rise	5899 Apr 30 12:41	29°♃27'16		inferior conj	5900 Apr 07 21:58	18°♃44'17	3°30'35
direct	5899 May 07 08:37	26°♃50'08		minimum elong	5900 Apr 07 21:58	18°♃44'16	3°30'35
desc. node	5899 May 09 19:26	27°♃08'25		min. Earth dist.	5900 Apr 09 22:51	16°♃17'34	0.64935 AU
	5899 May 15 16:32	0°♄		morning rise	5900 Apr 13 14:45	12°♃30'29	
morning max el	5899 May 21 07:48	4°♄50'54	27°48'19	direct	5900 Apr 20 06:59	9°♃41'55	
	5899 Jun 09 05:50	0°♄		desc. node	5900 Apr 26 16:27	11°♃46'45	
morning set	5899 Jun 24 17:00	27°♄52'06		morning max el	5900 May 03 17:45	17°♃35'50	27°12'05
	5899 Jun 25 18:18	0°♄			5900 May 14 02:31	0°♄	
max. Earth dist.	5899 Jun 29 23:31	8°♄47'24	1.32619 AU		5900 Jun 02 03:13	0°♄	
asc. node	5899 Jun 30 20:16	10°♄38'11		morning set	5900 Jun 08 06:14	11°♄25'46	
				max. Earth dist.	5900 Jun 12 19:51	20°♄31'42	1.33676 AU
superior conj	5899 Jul 02 10:10	14°♄02'15	0°16'18				
minimum elong	5899 Jul 02 09:23	13°♄58'03	0°16'06	superior conj	5900 Jun 16 13:23	28°♄16'47	-0°11'58
evening rise	5899 Jul 09 09:11	29°♄06'11		minimum elong	5900 Jun 16 14:00	28°♄20'06	0°11'53
	5899 Jul 09 19:20	0°♄		behind sun begin	5900 Jun 16 10:15	28°♄00'16	
	5899 Jul 26 18:42	0°♄		behind sun end	5900 Jun 16 17:46	28°♄39'57	
evening max el	5899 Aug 01 20:45	7°♄00'58	23°31'18		5900 Jun 17 08:55	0°♄	
desc. node	5899 Aug 05 18:38	10°♄18'47		asc. node	5900 Jun 17 17:17	0°♄44'19	
retrograde	5899 Aug 15 10:36	13°♄49'32		evening rise	5900 Jun 23 20:03	13°♄44'38	
evening set	5899 Aug 19 14:36	13°♄11'26			5900 Jul 02 02:04	0°♄	
min. Earth dist.	5899 Aug 26 06:25	10°♄04'13	0.55796 AU	evening max el	5900 Jul 14 12:02	17°♄22'52	21°54'40
inferior conj	5899 Aug 28 07:03	8°♄52'03	-5°11'59	desc. node	5900 Jul 23 15:40	23°♄10'31	
minimum elong	5899 Aug 28 02:37	8°♄58'38	5°11'33	retrograde	5900 Jul 27 03:34	23°♄39'14	
morning rise	5899 Sep 05 17:03	4°♄58'36		evening set	5900 Jul 29 21:29	23°♄22'20	
direct	5899 Sep 08 13:52	4°♄38'23		min. Earth dist.	5900 Aug 07 16:10	19°♄36'11	0.54878 AU
morning max el	5899 Sep 19 00:52	9°♄30'26	20°15'12	inferior conj	5900 Aug 08 03:51	19°♄19'47	-4°12'41
asc. node	5899 Sep 26 19:35	19°♄17'11		minimum elong	5900 Aug 07 18:57	19°♄32'17	4°10'29
	5899 Oct 02 22:19	0°♄		morning rise	5900 Aug 16 17:53	15°♄29'30	
morning set	5899 Oct 07 11:41	9°♄03'43		direct	5900 Aug 20 01:25	15°♄05'18	
				morning max el	5900 Sep 01 02:47	20°♄44'36	21°44'03
superior conj	5899 Oct 15 02:43	24°♄41'02	1°40'27		5900 Sep 08 19:45	0°♄	
minimum elong	5899 Oct 15 03:59	24°♄47'20	1°40'24	asc. node	5900 Sep 13 16:35	7°♄52'30	
	5899 Oct 17 18:43	0°♄		morning set	5900 Sep 21 21:04	23°♄50'49	
max. Earth dist.	5899 Oct 20 12:33	5°♄19'21	1.36592 AU		5900 Sep 24 19:11	0°♄	
evening rise	5899 Oct 24 08:49	12°♄30'17					
desc. node	5899 Nov 01 17:52	27°♄01'41		superior conj	5900 Sep 29 02:23	9°♄04'58	1°42'55
	5899 Nov 03 13:44	0°♄		minimum elong	5900 Sep 29 02:12	9°♄04'01	1°42'55
	5899 Nov 25 06:07	0°♄		max. Earth dist.	5900 Oct 03 00:52	17°♄11'26	1.34817 AU
evening max el	5899 Nov 29 00:58	3°♄58'11	25°53'15	evening rise	5900 Oct 07 09:20	25°♄45'41	
retrograde	5899 Dec 11 12:13	11°♄04'51			5900 Oct 09 15:15	0°♄	
evening set	5899 Dec 17 14:40	8°♄34'04		desc. node	5900 Oct 19 14:54	17°♄18'31	
min. Earth dist.	5899 Dec 21 21:37	3°♄57'24	0.66963 AU		5900 Oct 28 00:07	0°♄	
inferior conj	5899 Dec 23 07:31	2°♄10'51	-0°09'36	evening max el	5900 Nov 11 13:49	17°♄38'11	26°48'42
minimum elong	5899 Dec 23 07:46	2°♄10'04	0°09'27	retrograde	5900 Nov 24 16:41	24°♄55'24	
transit middle	5899 Dec 23 07:46	2°♄10'04	0°09'27	evening set	5900 Dec 01 07:14	22°♄17'22	
transit begin	5899 Dec 23 05:28	2°♄17'18		min. Earth dist.	5900 Dec 05 07:45	18°♄15'43	0.65843 AU
transit end	5899 Dec 23 10:04	2°♄02'51		inferior conj	5900 Dec 07 05:13	16°♄02'57	-1°10'02
asc. node	5899 Dec 23 18:50	1°♄35'22		minimum elong	5900 Dec 07 07:12	15°♄57'08	1°09'09
	5899 Dec 25 02:14	30°♄		asc. node	5900 Dec 10 15:52	12°♄20'20	
morning rise	5899 Dec 29 01:22	26°♄19'52		morning rise	5900 Dec 13 08:06	10°♄23'05	
direct	5900 Jan 01 06:39	25°♄20'31		direct	5900 Dec 16 03:56	9°♄39'00	
morning max el	5900 Jan 08 03:02	29°♄06'48	18°57'06	morning max el	5900 Dec 22 16:29	13°♄09'51	18°17'21
	5900 Jan 08 23:36	0°♄			5901 Jan 03 18:51	0°♄	
desc. node	5900 Jan 28 17:10	28°♄26'31		morning set	5901 Jan 10 21:20	11°♄25'58	
	5900 Jan 29 17:08	0°♄		desc. node	5901 Jan 15 14:11	18°♄59'57	
morning set	5900 Jan 30 11:28	1°♄11'28			5901 Jan 22 12:07	0°♄	
max. Earth dist.	5900 Feb 14 02:58	24°♄05'27	1.45140 AU				
				superior conj	5901 Jan 26 04:57	5°♄49'52	-1°09'47
superior conj	5900 Feb 16 01:25	27°♄08'11	-1°47'31	minimum elong	5901 Jan 25 20:42	5°♄17'29	1°08'46
minimum elong	5900 Feb 15 16:33	26°♄33'16	1°46'46	max. Earth dist.	5901 Jan 27 21:53	8°♄30'28	1.45361 AU
	5900 Feb 17 20:58	0°♄			5901 Feb 10 15:46	0°♄	
evening rise	5900 Mar 03 02:04	21°♄11'33		evening rise	5901 Feb 11 08:06	1°♄03'56	

greatest brilliancy	5901 Feb 22 13:29	18° $\text{K}$ 32'18	-0.8m	minimum elong	5902 Jan 05 17:33	14° $\text{Z}$ 59'15	0°23'13
	5901 Mar 02 11:03	0° $\text{Y}$		max. Earth dist.	5902 Jan 10 17:04	22° $\text{Z}$ 56'16	1.44844 AU
evening max el	5901 Mar 06 19:52	5° $\text{Y}$ 11'32	19°15'45		5902 Jan 15 04:57	0° $\approx$	
asc. node	5901 Mar 08 15:06	6° $\text{Y}$ 51'42		evening rise	5902 Jan 21 21:53	10° $\approx$ 22'46	
retrograde	5901 Mar 13 20:45	9° $\text{Y}$ 11'28			5902 Feb 03 20:56	0° $\text{K}$	
evening set	5901 Mar 17 08:00	8° $\text{Y}$ 01'14		greatest brilliancy	5902 Feb 05 15:36	2° $\text{K}$ 37'01	-0.6m
inferior conj	5901 Mar 22 19:51	2° $\text{Y}$ 10'58	3°24'03	evening max el	5902 Feb 17 23:47	18° $\text{K}$ 46'16	20°11'55
minimum elong	5901 Mar 22 18:37	2° $\text{Y}$ 14'57	3°23'55	asc. node	5902 Feb 23 12:09	22° $\text{K}$ 51'40	
min. Earth dist.	5901 Mar 24 05:28	0° $\text{Y}$ 22'28	0.66390 AU	retrograde	5902 Feb 25 18:53	23° $\text{K}$ 19'07	
	5901 Mar 24 12:32	30° $\text{K}$		evening set	5902 Mar 01 14:35	21° $\text{K}$ 54'23	
morning rise	5901 Mar 28 04:53	25° $\text{K}$ 55'27		inferior conj	5902 Mar 06 23:26	15° $\text{K}$ 50'20	3°05'20
direct	5901 Apr 03 12:00	23° $\text{K}$ 08'26		minimum elong	5902 Mar 06 21:24	15° $\text{K}$ 57'12	3°04'57
desc. node	5901 Apr 13 13:29	28° $\text{K}$ 13'09		min. Earth dist.	5902 Mar 07 18:48	14° $\text{K}$ 44'44	0.67413 AU
	5901 Apr 15 11:14	0° $\text{Y}$		morning rise	5902 Mar 12 03:59	9° $\text{K}$ 35'32	
morning max el	5901 Apr 16 03:39	0° $\text{Y}$ 40'58	26°08'20	direct	5902 Mar 17 22:29	7° $\text{K}$ 00'47	
	5901 May 08 02:15	0° $\text{B}$		morning max el	5902 Mar 29 12:27	13° $\text{K}$ 56'33	24°46'49
morning set	5901 May 22 06:36	24° $\text{B}$ 18'33		desc. node	5902 Mar 31 10:31	15° $\text{K}$ 57'59	
	5901 May 25 06:53	0° $\text{II}$			5902 Apr 11 13:42	0° $\text{Y}$	
max. Earth dist.	5901 May 26 04:47	1° $\text{II}$ 45'43	1.35205 AU		5902 Apr 30 22:26	0° $\text{B}$	
				morning set	5902 May 04 13:14	6° $\text{B}$ 17'02	
superior conj	5901 May 31 09:20	12° $\text{II}$ 05'36	-0°42'01	max. Earth dist.	5902 May 08 03:55	12° $\text{B}$ 47'31	1.37149 AU
minimum elong	5901 May 31 11:41	12° $\text{II}$ 17'34	0°41'35				
asc. node	5901 Jun 04 14:19	20° $\text{II}$ 45'47		superior conj	5902 May 14 19:00	25° $\text{B}$ 20'46	-1°12'08
evening rise	5901 Jun 08 04:00	28° $\text{II}$ 09'47		minimum elong	5902 May 14 23:05	25° $\text{B}$ 40'42	1°11'28
	5901 Jun 09 01:29	0° $\text{E}$			5902 May 17 03:47	0° $\text{II}$	
evening max el	5901 Jun 26 13:57	28° $\text{E}$ 13'53	20°30'00	asc. node	5902 May 22 11:23	10° $\text{II}$ 38'33	
	5901 Jun 28 13:19	0° $\text{O}$		evening rise	5902 May 23 06:41	12° $\text{II}$ 15'15	
retrograde	5901 Jul 07 16:03	3° $\text{O}$ 40'24			5902 Jun 01 19:11	0° $\text{E}$	
evening set	5901 Jul 09 16:04	3° $\text{O}$ 30'31		evening max el	5902 Jun 09 04:34	9° $\text{E}$ 47'02	19°23'51
desc. node	5901 Jul 10 12:43	3° $\text{O}$ 20'28		retrograde	5902 Jun 18 13:11	14° $\text{E}$ 22'09	
	5901 Jul 18 02:57	30° $\text{R}$		evening set	5902 Jun 20 11:29	14° $\text{E}$ 11'18	
inferior conj	5901 Jul 18 21:24	29° $\text{E}$ 33'25	-2°28'37	desc. node	5902 Jun 27 09:45	11° $\text{E}$ 08'28	
minimum elong	5901 Jul 18 14:33	29° $\text{E}$ 43'18	2°26'12	inferior conj	5902 Jun 29 01:58	10° $\text{E}$ 04'15	-0°30'11
min. Earth dist.	5901 Jul 20 03:21	28° $\text{E}$ 50'05	0.54890 AU	minimum elong	5902 Jun 29 00:38	10° $\text{E}$ 06'25	0°29'42
morning rise	5901 Jul 27 12:14	25° $\text{E}$ 26'18		min. Earth dist.	5902 Jul 01 16:52	8° $\text{E}$ 22'30	0.55847 AU
direct	5901 Jul 31 11:13	24° $\text{E}$ 52'32		morning rise	5902 Jul 07 11:04	5° $\text{E}$ 24'45	
	5901 Aug 12 07:19	0° $\text{O}$		direct	5902 Jul 12 06:31	4° $\text{E}$ 32'18	
morning max el	5901 Aug 13 19:18	1° $\text{O}$ 20'03	23°26'17	morning max el	5902 Jul 26 08:33	11° $\text{E}$ 39'11	25°09'09
asc. node	5901 Aug 31 13:36	27° $\text{O}$ 00'15			5902 Aug 09 10:00	0° $\text{O}$	
	5901 Sep 02 02:34	0° $\text{P}$		asc. node	5902 Aug 18 10:39	16° $\text{O}$ 31'58	
morning set	5901 Sep 06 08:26	8° $\text{P}$ 42'35		morning set	5902 Aug 21 20:09	23° $\text{O}$ 34'18	
					5902 Aug 24 19:44	0° $\text{P}$	
superior conj	5901 Sep 13 08:17	23° $\text{P}$ 46'10	1°38'46				
minimum elong	5901 Sep 13 06:59	23° $\text{P}$ 39'06	1°38'42	superior conj	5902 Aug 28 18:06	8° $\text{P}$ 37'19	1°28'55
max. Earth dist.	5901 Sep 15 22:04	29° $\text{P}$ 15'57	1.33439 AU	minimum elong	5902 Aug 28 16:04	8° $\text{P}$ 26'11	1°28'42
	5901 Sep 16 06:25	0° $\text{E}$		max. Earth dist.	5902 Aug 30 03:12	11° $\text{P}$ 38'24	1.32490 AU
evening rise	5901 Sep 20 22:45	9° $\text{E}$ 36'55		evening rise	5902 Sep 04 21:34	23° $\text{P}$ 54'15	
	5901 Oct 02 00:52	0° $\text{M}$			5902 Sep 07 22:09	0° $\text{E}$	
desc. node	5901 Oct 06 11:56	7° $\text{M}$ 13'42		desc. node	5902 Sep 23 08:58	26° $\text{E}$ 38'13	
	5901 Oct 24 00:14	0° $\text{J}$			5902 Sep 25 17:01	0° $\text{M}$	
evening max el	5901 Oct 25 02:16	1° $\text{J}$ 03'27	27°21'35	evening max el	5902 Oct 07 12:16	14° $\text{M}$ 01'02	27°25'24
retrograde	5901 Nov 07 15:01	8° $\text{J}$ 21'48		retrograde	5902 Oct 21 06:27	21° $\text{M}$ 15'30	
evening set	5901 Nov 14 14:52	5° $\text{J}$ 43'52		evening set	5902 Oct 28 10:24	18° $\text{M}$ 47'19	
min. Earth dist.	5901 Nov 18 09:52	2° $\text{J}$ 16'04	0.64382 AU	min. Earth dist.	5902 Nov 01 01:58	15° $\text{M}$ 49'05	0.62617 AU
inferior conj	5901 Nov 20 19:06	29° $\text{M}$ 43'48	-2°14'05	inferior conj	5902 Nov 03 22:20	13° $\text{M}$ 06'37	-3°18'46
minimum elong	5901 Nov 20 23:04	29° $\text{M}$ 33'13	2°12'30	minimum elong	5902 Nov 04 04:07	12° $\text{M}$ 52'50	3°16'49
	5901 Nov 20 13:03	30° $\text{R}$		morning rise	5902 Nov 10 23:35	7° $\text{M}$ 58'30	
morning rise	5901 Nov 27 08:39	24° $\text{M}$ 18'04		direct	5902 Nov 13 07:56	7° $\text{M}$ 33'25	
asc. node	5901 Nov 27 12:54	24° $\text{M}$ 13'41		asc. node	5902 Nov 14 09:56	7° $\text{M}$ 38'55	
direct	5901 Nov 29 21:23	23° $\text{M}$ 45'19		morning max el	5902 Nov 20 01:41	11° $\text{M}$ 00'24	17°49'27
morning max el	5901 Dec 06 09:01	27° $\text{M}$ 10'04	17°54'33		5902 Dec 02 18:29	0° $\text{J}$	
	5901 Dec 08 21:10	0° $\text{J}$		morning set	5902 Dec 06 02:01	5° $\text{J}$ 51'51	
morning set	5901 Dec 23 12:08	23° $\text{J}$ 05'47					
	5901 Dec 27 14:37	0° $\text{Z}$		superior conj	5902 Dec 17 12:12	25° $\text{J}$ 43'11	0°20'08
desc. node	5902 Jan 02 11:12	9° $\text{Z}$ 41'19		minimum elong	5902 Dec 17 14:07	25° $\text{J}$ 51'15	0°19'53
				desc. node	5902 Dec 20 08:14	0° $\text{Z}$ 27'04	
superior conj	5902 Jan 05 20:20	15° $\text{Z}$ 10'27	-0°23'39		5902 Dec 20 01:41	0° $\text{Z}$	

max. Earth dist.	5902 Dec 24 09:42	7°  05'27	1.43649 AU	max. Earth dist.	5903 Dec 06 21:28	20°  41'22	1.41915 AU
evening rise	5903 Jan 01 09:21	19°  43'10		desc. node	5903 Dec 07 05:14	21°  13'45	
	5903 Jan 08 02:55	0°  ≈		evening rise	5903 Dec 12 09:28	29°  40'56	
	5903 Jan 29 17:44	0°  ✕			5903 Dec 12 14:14	0°  ✕	
evening max el	5903 Jan 31 22:11	2°  ✕22'03	21°20'39		5904 Jan 01 16:47	0°  ≈	
retrograde	5903 Feb 09 16:50	7°  ✕34'01		evening max el	5904 Jan 14 15:34	15°  ≈59'35	22°37'49
asc. node	5903 Feb 10 09:13	7°  ✕31'33		retrograde	5904 Jan 24 12:59	21°  ≈52'16	
evening set	5903 Feb 13 22:25	5°  ✕54'04		asc. node	5904 Jan 28 06:15	20°  ≈40'44	
inferior conj	5903 Feb 19 06:19	29°  ≈38'50	2°36'39	evening set	5904 Jan 29 05:50	19°  ≈56'51	
minimum elong	5903 Feb 19 03:58	29°  ≈47'02	2°36'01	inferior conj	5904 Feb 03 14:31	13°  ≈33'46	1°59'24
	5903 Feb 19 00:13	30°   ≈		minimum elong	5904 Feb 03 12:17	13°  ≈41'30	1°58'40
min. Earth dist.	5903 Feb 19 12:48	29°  ≈16'22	0.68006 AU	min. Earth dist.	5904 Feb 03 09:14	13°  ≈52'05	0.68189 AU
morning rise	5903 Feb 24 09:20	23°  ≈26'16		morning rise	5904 Feb 08 18:39	7°  ≈24'48	
direct	5903 Mar 01 13:31	21°  ≈10'45		direct	5904 Feb 13 08:19	5°  ≈31'39	
morning max el	5903 Mar 11 21:35	27°  ≈19'01	23°17'43	morning max el	5904 Feb 22 10:17	10°  ≈50'04	21°50'28
	5903 Mar 14 09:53	0°  ✕		desc. node	5904 Mar 04 04:33	24°  ≈00'34	
desc. node	5903 Mar 18 07:33	4°  ✕39'03			5904 Mar 08 11:03	0°  ✕	
	5903 Apr 05 05:10	0°   		morning set	5904 Mar 25 23:07	26°  ✕35'10	
morning set	5903 Apr 15 20:13	17°   			5904 Mar 28 01:57	0°  	
max. Earth dist.	5903 Apr 19 23:39	24°   	1.39339 AU	max. Earth dist.	5904 Mar 31 22:41	6°   	1.41500 AU
	5903 Apr 23 06:50	0°  					
superior conj	5903 Apr 27 14:23	7°   51'56	-1°39'37	superior conj	5904 Apr 08 14:49	19°   	-2°00'35
minimum elong	5903 Apr 27 19:33	8°   51'57	1°39'02	minimum elong	5904 Apr 08 19:14	19°   	2°00'20
evening rise	5903 May 07 01:13	25°   52'48			5904 Apr 14 11:48	0°  	
asc. node	5903 May 09 08:26	0°   		evening rise	5904 Apr 19 08:01	8°   54'02	
	5903 May 09 04:45	0°  		asc. node	5904 Apr 25 05:29	19°   ✕37'57	
evening max el	5903 May 23 05:49	21°   	18°38'02		5904 May 01 15:37	0°  	
retrograde	5903 May 31 04:07	25°   		evening max el	5904 May 05 14:22	4°   	18°12'30
evening set	5903 Jun 02 07:57	25°   		retrograde	5904 May 12 13:45	8°   	
inferior conj	5903 Jun 10 02:31	21°   	1°11'53	evening set	5904 May 15 00:39	7°   	
minimum elong	5903 Jun 10 05:01	21°   	1°11'00	inferior conj	5904 May 22 00:36	3°   	2°24'12
min. Earth dist.	5903 Jun 13 10:16	18°   	0.57553 AU	minimum elong	5904 May 22 03:58	2°   	2°23'18
desc. node	5903 Jun 14 06:48	18°   		min. Earth dist.	5904 May 25 09:49	0°   	0.59686 AU
morning rise	5903 Jun 17 22:45	15°   			5904 May 25 12:16	30°   	
direct	5903 Jun 23 15:41	14°   		morning rise	5904 May 29 04:30	27°   	
morning max el	5903 Jul 08 00:49	22°   	26°36'17	desc. node	5904 May 31 03:49	26°   	
	5903 Jul 14 22:32	0°  		direct	5904 Jun 04 14:29	25°   	
	5903 Aug 02 05:06	0°  			5904 Jun 15 07:07	0°  	
asc. node	5903 Aug 05 07:41	6°  		morning max el	5904 Jun 18 23:23	3°   	27°33'28
morning set	5903 Aug 06 06:30	8°  			5904 Jul 08 12:21	0°  	
				morning set	5904 Jul 20 13:47	22°   	
superior conj	5903 Aug 13 05:41	23°   	1°14'02	asc. node	5904 Jul 22 04:43	26°   	
minimum elong	5903 Aug 13 03:24	23°   	1°13'40		5904 Jul 23 21:56	0°  	
max. Earth dist.	5903 Aug 13 13:05	24°   	1.31964 AU	max. Earth dist.	5904 Jul 27 00:01	6°   	1.31870 AU
	5903 Aug 16 04:22	0°  					
evening rise	5903 Aug 20 02:48	8°   		superior conj	5904 Jul 27 17:18	8°   	0°54'40
	5903 Aug 31 07:41	0°  		minimum elong	5904 Jul 27 15:13	8°   	0°54'14
desc. node	5903 Sep 10 06:00	15°  		evening rise	5904 Aug 03 12:08	23°   	
evening max el	5903 Sep 19 16:56	26°  	26°56'14		5904 Aug 06 18:43	0°  	
	5903 Sep 24 05:21	0°  			5904 Aug 24 17:25	0°  	
retrograde	5903 Oct 03 14:14	3°  		desc. node	5904 Aug 27 03:02	2°  	
evening set	5903 Oct 10 13:42	1°  		evening max el	5904 Aug 31 14:06	7°  	25°54'26
	5903 Oct 12 14:08	30°  		retrograde	5904 Sep 14 13:05	14°  	
min. Earth dist.	5903 Oct 14 07:07	28°  	0.60610 AU	evening set	5904 Sep 20 19:53	13°  	
inferior conj	5903 Oct 17 11:31	26°  	-4°18'50	min. Earth dist.	5904 Sep 25 02:37	10°  	0.58530 AU
minimum elong	5903 Oct 17 18:03	25°  	4°17'11	inferior conj	5904 Sep 28 07:08	8°  	-5°04'52
morning rise	5903 Oct 25 00:29	21°  		minimum elong	5904 Sep 28 11:58	8°  	5°04'12
direct	5903 Oct 27 07:32	20°  		morning rise	5904 Oct 06 06:21	3°  	
asc. node	5903 Nov 01 06:58	22°  		direct	5904 Oct 08 15:43	3°  	
morning max el	5903 Nov 03 15:14	24°  	18°03'14	morning max el	5904 Oct 16 22:10	7°  	18°37'20
	5903 Nov 08 02:44	0°  		asc. node	5904 Oct 18 04:00	8°  	
morning set	5903 Nov 19 08:37	19°  			5904 Oct 31 07:		

max. Earth dist.	5904 Nov 18 04:02	3° $\text{♁}$ 33'18	1.39860 AU	evening rise	5905 Nov 04 02:58	22° $\text{♁}$ 34'32	
evening rise	5904 Nov 22 06:58	10° $\text{♁}$ 37'05			5905 Nov 08 10:06	0° $\text{♁}$	
desc. node	5904 Nov 23 02:14	11° $\text{♁}$ 57'41		desc. node	5905 Nov 09 23:16	2° $\text{♁}$ 35'16	
	5904 Dec 04 11:57	0° $\text{♁}$			5905 Nov 28 08:09	0° $\text{♁}$	
evening max el	5904 Dec 27 05:36	29° $\text{♁}$ 40'18	23°57'52	evening max el	5905 Dec 09 18:31	13° $\text{♁}$ 25'11	25°14'04
	5904 Dec 27 13:35	0° $\text{♁}$		retrograde	5905 Dec 21 18:27	20° $\text{♁}$ 20'50	
retrograde	5905 Jan 07 05:52	6° $\text{♁}$ 09'15		evening set	5905 Dec 27 13:08	17° $\text{♁}$ 56'53	
evening set	5905 Jan 12 11:15	3° $\text{♁}$ 58'49		min. Earth dist.	5906 Jan 01 00:10	12° $\text{♁}$ 59'53	0.67446 AU
asc. node	5905 Jan 14 03:16	2° $\text{♁}$ 21'09		asc. node	5906 Jan 01 00:17	12° $\text{♁}$ 59'33	
	5905 Jan 16 02:01	30° $\text{♁}$		inferior conj	5906 Jan 02 03:31	11° $\text{♁}$ 30'58	0°22'57
min. Earth dist.	5905 Jan 17 05:49	28° $\text{♁}$ 27'31	0.67997 AU	minimum elong	5906 Jan 02 02:57	11° $\text{♁}$ 32'50	0°22'45
inferior conj	5905 Jan 17 22:11	27° $\text{♁}$ 31'58	1°14'33	morning rise	5906 Jan 07 17:01	5° $\text{♁}$ 34'26	
minimum elong	5905 Jan 17 20:33	27° $\text{♁}$ 37'31	1°13'57	direct	5906 Jan 11 04:41	4° $\text{♁}$ 24'25	
morning rise	5905 Jan 23 05:51	21° $\text{♁}$ 28'10		morning max el	5906 Jan 18 08:49	8° $\text{♁}$ 24'38	19°27'16
direct	5905 Jan 27 05:47	19° $\text{♁}$ 57'34		greatest brilliancy	5906 Jan 31 10:49	25° $\text{♁}$ 44'46	-0.7m
morning max el	5905 Feb 04 05:34	24° $\text{♁}$ 31'38	20°32'07		5906 Feb 03 06:44	0° $\text{♁}$	
	5905 Feb 09 00:39	0° $\text{♁}$		desc. node	5906 Feb 05 22:32	4° $\text{♁}$ 02'37	
desc. node	5905 Feb 19 01:32	13° $\text{♁}$ 50'54		morning set	5906 Feb 11 23:14	13° $\text{♁}$ 18'32	
	5905 Mar 01 19:58	0° $\text{♁}$			5906 Feb 22 16:25	0° $\text{♁}$	
morning set	5905 Mar 05 01:34	4° $\text{♁}$ 59'16		max. Earth dist.	5906 Feb 24 17:31	3° $\text{♁}$ 13'38	1.44692 AU
max. Earth dist.	5905 Mar 14 04:25	19° $\text{♁}$ 24'08	1.43361 AU				
				superior conj	5906 Feb 28 15:07	9° $\text{♁}$ 25'37	-2°01'27
superior conj	5905 Mar 20 15:32	29° $\text{♁}$ 59'46	-2°09'45	minimum elong	5906 Feb 28 09:01	9° $\text{♁}$ 01'16	2°01'07
minimum elong	5905 Mar 20 15:56	0° $\text{♁}$ 01'25	2°09'45		5906 Mar 13 05:27	0° $\text{♁}$	
	5905 Mar 20 15:35	0° $\text{♁}$		evening rise	5906 Mar 14 16:43	2° $\text{♁}$ 27'06	
evening rise	5905 Apr 01 22:38	21° $\text{♁}$ 08'01		asc. node	5906 Mar 29 23:32	26° $\text{♁}$ 53'00	
	5905 Apr 07 00:03	0° $\text{♁}$			5906 Apr 01 11:38	0° $\text{♁}$	
asc. node	5905 Apr 12 02:31	8° $\text{♁}$ 32'27		evening max el	5906 Apr 02 15:35	1° $\text{♁}$ 14'35	18°19'28
evening max el	5905 Apr 19 02:40	17° $\text{♁}$ 52'29	18°06'35	retrograde	5906 Apr 09 01:39	4° $\text{♁}$ 41'22	
retrograde	5905 Apr 25 14:24	21° $\text{♁}$ 14'05		evening set	5906 Apr 12 01:57	3° $\text{♁}$ 52'14	
evening set	5905 Apr 28 08:08	20° $\text{♁}$ 37'29			5906 Apr 16 15:03	30° $\text{♁}$	
inferior conj	5905 May 04 17:09	15° $\text{♁}$ 31'49	3°07'36	inferior conj	5906 Apr 18 00:01	28° $\text{♁}$ 27'49	3°27'33
minimum elong	5905 May 04 19:33	15° $\text{♁}$ 25'40	3°07'12	minimum elong	5906 Apr 18 00:54	28° $\text{♁}$ 25'20	3°27'29
min. Earth dist.	5905 May 07 17:19	12° $\text{♁}$ 29'11	0.61901 AU	min. Earth dist.	5906 Apr 20 09:53	25° $\text{♁}$ 43'35	0.63931 AU
morning rise	5905 May 11 05:11	9° $\text{♁}$ 30'05		morning rise	5906 Apr 23 22:54	22° $\text{♁}$ 17'01	
direct	5905 May 18 00:08	7° $\text{♁}$ 04'52		direct	5906 Apr 30 18:15	19° $\text{♁}$ 33'14	
desc. node	5905 May 18 00:50	7° $\text{♁}$ 04'52		desc. node	5906 May 04 21:51	20° $\text{♁}$ 25'53	
morning max el	5905 Jun 01 03:55	15° $\text{♁}$ 05'24	27°53'36	morning max el	5906 May 14 12:31	27° $\text{♁}$ 32'02	27°36'39
	5905 Jun 13 06:39	0° $\text{♁}$			5906 May 16 20:34	0° $\text{♁}$	
	5905 Jul 01 01:40	0° $\text{♁}$			5906 Jun 06 23:47	0° $\text{♁}$	
morning set	5905 Jul 04 16:04	7° $\text{♁}$ 10'15		morning set	5906 Jun 18 10:54	21° $\text{♁}$ 01'53	
asc. node	5905 Jul 09 01:45	16° $\text{♁}$ 24'01			5906 Jun 22 20:43	0° $\text{♁}$	
max. Earth dist.	5905 Jul 10 08:14	19° $\text{♁}$ 08'10	1.32212 AU	max. Earth dist.	5906 Jun 23 09:56	1° $\text{♁}$ 09'02	1.33010 AU
				asc. node	5906 Jun 25 22:47	6° $\text{♁}$ 31'00	
superior conj	5905 Jul 12 03:11	23° $\text{♁}$ 01'56	0°31'19				
minimum elong	5905 Jul 12 01:48	22° $\text{♁}$ 54'22	0°30'59	superior conj	5906 Jun 26 09:28	7° $\text{♁}$ 28'08	0°04'37
	5905 Jul 15 07:30	0° $\text{♁}$		minimum elong	5906 Jun 26 09:14	7° $\text{♁}$ 26'55	0°04'32
evening rise	5905 Jul 18 23:35	7° $\text{♁}$ 57'13		behind sun begin	5906 Jun 26 04:03	6° $\text{♁}$ 59'10	
	5905 Jul 30 09:23	0° $\text{♁}$		behind sun end	5906 Jun 26 14:25	7° $\text{♁}$ 54'42	
evening max el	5905 Aug 13 04:26	18° $\text{♁}$ 24'31	24°27'28	evening rise	5906 Jul 03 11:13	22° $\text{♁}$ 40'29	
desc. node	5905 Aug 14 00:03	19° $\text{♁}$ 10'26			5906 Jul 07 00:01	0° $\text{♁}$	
retrograde	5905 Aug 27 00:40	25° $\text{♁}$ 22'37		evening max el	5906 Jul 25 17:03	28° $\text{♁}$ 43'58	22°49'31
evening set	5905 Sep 01 01:30	24° $\text{♁}$ 26'08			5906 Jul 27 01:51	0° $\text{♁}$	
min. Earth dist.	5905 Sep 06 15:32	21° $\text{♁}$ 34'56	0.56650 AU	desc. node	5906 Jul 31 21:05	3° $\text{♁}$ 25'28	
inferior conj	5905 Sep 09 06:47	19° $\text{♁}$ 54'41	-5°22'04	retrograde	5906 Aug 07 23:15	5° $\text{♁}$ 20'41	
minimum elong	5905 Sep 09 06:20	19° $\text{♁}$ 55'25	5°22'04	evening set	5906 Aug 11 11:37	4° $\text{♁}$ 53'39	
morning rise	5905 Sep 17 13:30	15° $\text{♁}$ 51'51		min. Earth dist.	5906 Aug 19 01:15	1° $\text{♁}$ 31'43	0.55300 AU
direct	5905 Sep 20 05:10	15° $\text{♁}$ 32'48		inferior conj	5906 Aug 20 11:24	0° $\text{♁}$ 42'48	-4°53'26
morning max el	5905 Sep 29 19:09	20° $\text{♁}$ 02'40	19°33'09	minimum elong	5906 Aug 20 04:25	0° $\text{♁}$ 52'50	4°52'17
asc. node	5905 Oct 05 01:01	26° $\text{♁}$ 14'50			5906 Aug 21 17:26	30° $\text{♁}$	
	5905 Oct 07 12:40	0° $\text{♁}$		morning rise	5906 Aug 28 23:17	26° $\text{♁}$ 52'48	
morning set	5905 Oct 17 05:09	17° $\text{♁}$ 58'29		direct	5906 Sep 01 00:33	26° $\text{♁}$ 31'06	
	5905 Oct 23 04:25	0° $\text{♁}$			5906 Sep 10 03:29	0° $\text{♁}$	
superior conj	5905 Oct 25 04:10	3° $\text{♁}$ 56'40	1°35'35	morning max el	5906 Sep 12 03:50	1° $\text{♁}$ 42'33	20°50'48
minimum elong	5905 Oct 25 06:18	4° $\text{♁}$ 07'09	1°35'27	asc. node	5906 Sep 21 22:03	14° $\text{♁}$ 26'45	
max. Earth dist.	5905 Oct 31 09:00	15° $\text{♁}$ 47'29	1.37743 AU		5906 Sep 30 05:18	0° $\text{♁}$	
				morning set	5906 Oct 01 12:34	2° $\text{♁}$ 40'15	

superior conj	5906 Oct 08 22:51	18° $\Omega$ 05'53	1°42'22	superior conj	5907 Sep 23 01:30	2° $\Omega$ 37'50	1°41'54
minimum elong	5906 Oct 08 23:28	18° $\Omega$ 09'03	1°42'22	minimum elong	5907 Sep 23 00:48	2° $\Omega$ 34'05	1°41'54
max. Earth dist.	5906 Oct 13 17:39	27° $\Omega$ 42'09	1.35795 AU	max. Earth dist.	5907 Sep 26 09:51	9° $\Omega$ 38'29	1.34180 AU
	5906 Oct 14 21:59	0° $\mathbb{M}$		evening rise	5907 Oct 01 00:43	18° $\Omega$ 55'21	
evening rise	5906 Oct 17 18:16	5° $\mathbb{M}$ 24'04			5907 Oct 06 22:42	0° $\mathbb{M}$	
desc. node	5906 Oct 27 20:18	23° $\mathbb{M}$ 01'06		desc. node	5907 Oct 14 17:20	13° $\mathbb{M}$ 09'24	
	5906 Nov 01 05:59	0° $\mathcal{Z}$			5907 Oct 26 09:22	0° $\mathcal{Z}$	
evening max el	5906 Nov 22 07:25	27° $\mathcal{Z}$ 09'04	26°19'11	evening max el	5907 Nov 04 20:11	10° $\mathcal{Z}$ 43'27	27°05'48
	5906 Nov 25 12:11	0° $\mathcal{Z}$		retrograde	5907 Nov 18 03:34	18° $\mathcal{Z}$ 01'39	
retrograde	5906 Dec 05 01:49	4° $\mathcal{Z}$ 20'40		evening set	5907 Nov 24 22:44	15° $\mathcal{Z}$ 22'24	
evening set	5906 Dec 11 09:40	1° $\mathcal{Z}$ 46'17		min. Earth dist.	5907 Nov 28 20:43	11° $\mathcal{Z}$ 35'43	0.65266 AU
	5906 Dec 13 07:02	30° $\mathcal{R}$ $\mathcal{Z}$		inferior conj	5907 Nov 30 23:15	9° $\mathcal{Z}$ 13'42	-1°36'52
min. Earth dist.	5906 Dec 15 13:55	27° $\mathcal{Z}$ 24'28	0.66533 AU	minimum elong	5907 Dec 01 02:04	9° $\mathcal{Z}$ 05'46	1°35'41
inferior conj	5906 Dec 17 04:36	25° $\mathcal{Z}$ 26'24	-0°34'36	asc. node	5907 Dec 05 18:21	4° $\mathcal{Z}$ 33'44	
minimum elong	5906 Dec 17 05:33	25° $\mathcal{Z}$ 23'32	0°34'10	morning rise	5907 Dec 07 06:31	3° $\mathcal{Z}$ 39'41	
asc. node	5906 Dec 18 21:18	23° $\mathcal{Z}$ 25'03		direct	5907 Dec 09 23:07	3° $\mathcal{Z}$ 00'50	
morning rise	5906 Dec 23 02:03	19° $\mathcal{Z}$ 39'41		morning max el	5907 Dec 16 10:18	6° $\mathcal{Z}$ 27'38	18°05'36
direct	5906 Dec 26 03:09	18° $\mathcal{Z}$ 47'07			5908 Jan 01 10:55	0° $\mathcal{Z}$	
morning max el	5907 Jan 01 19:09	22° $\mathcal{Z}$ 25'16	18°38'10	morning set	5908 Jan 03 15:00	3° $\mathcal{Z}$ 34'16	
	5907 Jan 07 22:28	0° $\mathcal{Z}$		desc. node	5908 Jan 10 16:35	15° $\mathcal{Z}$ 06'30	
morning set	5907 Jan 22 16:24	22° $\mathcal{Z}$ 42'11					
desc. node	5907 Jan 23 19:34	24° $\mathcal{Z}$ 29'26		superior conj	5908 Jan 18 03:11	27° $\mathcal{Z}$ 00'33	-0°50'32
	5907 Jan 27 07:25	0° $\approx$		minimum elong	5908 Jan 17 21:01	26° $\mathcal{Z}$ 36'11	0°49'42
					5908 Jan 20 00:38	0° $\approx$	
superior conj	5907 Feb 07 20:57	18° $\approx$ 08'58	-1°33'16	max. Earth dist.	5908 Jan 21 07:28	2° $\approx$ 01'20	1.45227 AU
minimum elong	5907 Feb 07 11:26	17° $\approx$ 31'41	1°32'19	evening rise	5908 Feb 03 09:30	22° $\approx$ 24'13	
max. Earth dist.	5907 Feb 07 11:46	17° $\approx$ 32'56	1.45334 AU		5908 Feb 08 07:29	0° $\mathcal{H}$	
	5907 Feb 15 09:48	0° $\mathcal{H}$		greatest brilliancy	5908 Feb 16 12:05	12° $\mathcal{H}$ 29'05	-0.7m
evening rise	5907 Feb 23 11:38	12° $\mathcal{H}$ 49'32		evening max el	5908 Feb 28 09:13	28° $\mathcal{H}$ 17'59	19°37'49
greatest brilliancy	5907 Mar 03 15:05	25° $\mathcal{H}$ 49'11	-0.8m		5908 Mar 01 04:50	0° $\mathcal{Y}$	
	5907 Mar 06 06:59	0° $\mathcal{Y}$		asc. node	5908 Mar 02 17:37	1° $\mathcal{Y}$ 08'58	
asc. node	5907 Mar 16 20:34	14° $\mathcal{Y}$ 29'35		retrograde	5908 Mar 06 17:07	2° $\mathcal{Y}$ 31'14	
evening max el	5907 Mar 17 02:28	14° $\mathcal{Y}$ 44'44	18°50'18	evening set	5908 Mar 10 07:48	1° $\mathcal{Y}$ 14'50	
retrograde	5907 Mar 23 19:39	18° $\mathcal{Y}$ 29'25			5908 Mar 11 19:32	30° $\mathcal{R}$ $\mathcal{H}$	
evening set	5907 Mar 27 02:43	17° $\mathcal{Y}$ 26'56		inferior conj	5908 Mar 15 18:04	25° $\mathcal{H}$ 18'07	3°17'28
inferior conj	5907 Apr 01 17:25	11° $\mathcal{Y}$ 45'21	3°29'29	minimum elong	5908 Mar 15 16:26	25° $\mathcal{H}$ 23'31	3°17'14
minimum elong	5907 Apr 01 16:51	11° $\mathcal{Y}$ 47'07	3°29'26	min. Earth dist.	5908 Mar 16 21:22	23° $\mathcal{H}$ 47'49	0.66875 AU
min. Earth dist.	5907 Apr 03 11:37	9° $\mathcal{Y}$ 34'19	0.65611 AU	morning rise	5908 Mar 21 00:48	19° $\mathcal{H}$ 02'35	
morning rise	5907 Apr 07 06:31	5° $\mathcal{Y}$ 30'39		direct	5908 Mar 27 02:42	16° $\mathcal{H}$ 19'59	
direct	5907 Apr 13 19:25	2° $\mathcal{Y}$ 41'33		desc. node	5908 Apr 07 15:54	22° $\mathcal{H}$ 57'40	
desc. node	5907 Apr 21 18:52	5° $\mathcal{Y}$ 54'38		morning max el	5908 Apr 08 08:25	23° $\mathcal{H}$ 38'47	25°35'18
morning max el	5907 Apr 26 22:43	10° $\mathcal{Y}$ 27'20	26°47'48		5908 Apr 14 00:15	0° $\mathcal{Y}$	
	5907 May 12 09:22	0° $\mathcal{B}$			5908 May 04 18:28	0° $\mathcal{B}$	
	5907 May 30 11:56	0° $\mathbb{I}$		morning set	5908 May 14 12:44	16° $\mathcal{B}$ 51'27	
morning set	5907 Jun 01 19:13	4° $\mathbb{I}$ 19'49		max. Earth dist.	5908 May 18 06:32	23° $\mathcal{B}$ 48'36	1.35993 AU
max. Earth dist.	5907 Jun 06 01:52	12° $\mathbb{I}$ 41'22	1.34277 AU		5908 May 21 11:39	0° $\mathbb{I}$	
superior conj	5907 Jun 10 09:58	21° $\mathbb{I}$ 33'00	-0°24'35	superior conj	5908 May 24 01:56	5° $\mathbb{I}$ 08'17	-0°54'55
minimum elong	5907 Jun 10 11:18	21° $\mathbb{I}$ 39'56	0°24'20	minimum elong	5908 May 24 05:03	5° $\mathbb{I}$ 23'53	0°54'22
asc. node	5907 Jun 12 19:50	26° $\mathbb{I}$ 35'56		asc. node	5908 May 29 16:52	16° $\mathbb{I}$ 34'05	
	5907 Jun 14 10:31	0° $\mathcal{E}$		evening rise	5908 Jun 01 03:12	21° $\mathbb{I}$ 32'24	
evening rise	5907 Jun 17 21:10	7° $\mathcal{E}$ 14'41			5908 Jun 05 09:06	0° $\mathcal{E}$	
	5907 Jun 30 03:28	0° $\mathcal{Q}$		evening max el	5908 Jun 18 19:23	20° $\mathcal{E}$ 22'36	19°59'17
evening max el	5907 Jul 07 12:11	9° $\mathcal{Q}$ 15'04	21°16'34	retrograde	5908 Jun 29 03:50	25° $\mathcal{E}$ 27'07	
desc. node	5907 Jul 18 18:07	15° $\mathcal{Q}$ 10'12		evening set	5908 Jul 01 01:26	25° $\mathcal{E}$ 17'36	
retrograde	5907 Jul 19 12:51	15° $\mathcal{Q}$ 11'39		desc. node	5908 Jul 04 15:10	24° $\mathcal{E}$ 13'11	
evening set	5907 Jul 21 21:04	14° $\mathcal{Q}$ 58'56		inferior conj	5908 Jul 10 01:38	21° $\mathcal{E}$ 17'31	-1°37'58
inferior conj	5907 Jul 31 05:00	11° $\mathcal{Q}$ 00'21	-3°32'35	minimum elong	5908 Jul 09 21:04	21° $\mathcal{E}$ 24'24	1°36'17
minimum elong	5907 Jul 30 20:11	11° $\mathcal{Q}$ 12'43	3°29'55	min. Earth dist.	5908 Jul 11 23:09	20° $\mathcal{E}$ 08'51	0.55189 AU
min. Earth dist.	5907 Jul 31 11:05	10° $\mathcal{Q}$ 51'49	0.54767 AU	morning rise	5908 Jul 18 14:57	16° $\mathcal{E}$ 57'43	
morning rise	5907 Aug 08 20:01	7° $\mathcal{Q}$ 05'50		direct	5908 Jul 22 21:49	16° $\mathcal{E}$ 17'34	
direct	5907 Aug 12 09:33	6° $\mathcal{Q}$ 38'29		morning max el	5908 Aug 05 15:37	23° $\mathcal{E}$ 03'26	24°11'00
morning max el	5907 Aug 25 01:08	12° $\mathcal{Q}$ 37'58	22°26'35		5908 Aug 11 20:40	0° $\mathcal{Q}$	
	5907 Sep 06 22:56	0° $\mathbb{P}$		asc. node	5908 Aug 25 16:09	22° $\mathcal{Q}$ 35'34	
asc. node	5907 Sep 08 19:06	3° $\mathbb{P}$ 17'00			5908 Aug 29 07:45	0° $\mathbb{P}$	
morning set	5907 Sep 15 23:02	17° $\mathbb{P}$ 29'55		morning set	5908 Aug 30 10:44	2° $\mathbb{P}$ 22'01	
	5907 Sep 21 19:50	0° $\mathcal{Q}$					












































































































































superior conj	5908 Sep 06 09:21	17° $\mathbb{M}$ 23'59	1°35'15	asc. node	5909 Aug 12 13:11	12° $\Omega$ 14'43	
minimum elong	5908 Sep 06 07:41	17° $\mathbb{M}$ 14'55	1°35'07	morning set	5909 Aug 14 22:01	17° $\Omega$ 11'19	
max. Earth dist.	5908 Sep 08 10:32	21° $\mathbb{M}$ 49'35	1.32976 AU		5909 Aug 20 19:18	0° $\mathbb{M}$	
	5908 Sep 12 07:36	0° $\mathbb{L}$					
evening rise	5908 Sep 13 18:29	2° $\mathbb{L}$ 58'15		superior conj	5909 Aug 21 20:07	2° $\mathbb{M}$ 16'48	1°23'12
	5908 Sep 28 17:59	0° $\mathbb{M}$		minimum elong	5909 Aug 21 17:56	2° $\mathbb{M}$ 04'42	1°22'54
desc. node	5908 Sep 30 14:23	2° $\mathbb{M}$ 52'42		max. Earth dist.	5909 Aug 22 17:51	4° $\mathbb{M}$ 16'18	1.32210 AU
evening max el	5908 Oct 17 07:39	23° $\mathbb{M}$ 57'36	27°27'03	evening rise	5909 Aug 28 20:19	17° $\mathbb{M}$ 23'20	
	5908 Oct 25 16:30	0° $\mathbb{L}$			5909 Sep 04 04:53	0° $\mathbb{L}$	
retrograde	5908 Oct 30 23:14	1° $\mathbb{L}$ 15'28		desc. node	5909 Sep 17 11:25	22° $\mathbb{L}$ 00'11	
	5908 Nov 04 22:13	30° $\mathbb{R}$ $\mathbb{M}$			5909 Sep 23 12:23	0° $\mathbb{M}$	
evening set	5908 Nov 07 01:42	28° $\mathbb{M}$ 39'58		evening max el	5909 Sep 29 15:39	6° $\mathbb{M}$ 38'32	27°17'15
min. Earth dist.	5908 Nov 10 18:40	25° $\mathbb{M}$ 25'50	0.63660 AU	retrograde	5909 Oct 13 11:50	13° $\mathbb{M}$ 51'50	
inferior conj	5908 Nov 13 08:58	22° $\mathbb{M}$ 47'31	-2°41'44	evening set	5909 Oct 20 14:54	11° $\mathbb{M}$ 31'24	
minimum elong	5908 Nov 13 13:46	22° $\mathbb{M}$ 35'17	2°39'55	min. Earth dist.	5909 Oct 24 06:18	8° $\mathbb{M}$ 42'54	0.61774 AU
morning rise	5908 Nov 20 03:27	17° $\mathbb{M}$ 29'11		inferior conj	5909 Oct 27 06:39	5° $\mathbb{M}$ 59'43	-3°45'22
asc. node	5908 Nov 21 15:25	17° $\mathbb{M}$ 04'34		minimum elong	5909 Oct 27 12:57	5° $\mathbb{M}$ 45'27	3°43'25
direct	5908 Nov 22 13:53	17° $\mathbb{M}$ 00'14		morning rise	5909 Nov 03 12:58	1° $\mathbb{M}$ 00'13	
morning max el	5908 Nov 29 03:21	20° $\mathbb{M}$ 24'59	17°50'14	direct	5909 Nov 05 20:11	0° $\mathbb{M}$ 37'34	
	5908 Dec 06 08:11	0° $\mathbb{L}$		asc. node	5909 Nov 08 12:28	1° $\mathbb{M}$ 09'22	
morning set	5908 Dec 15 16:25	15° $\mathbb{L}$ 44'31		morning max el	5909 Nov 12 19:06	4° $\mathbb{M}$ 08'31	17°52'55
	5908 Dec 24 01:10	0° $\mathbb{L}$		morning set	5909 Nov 28 14:06	28° $\mathbb{M}$ 52'26	
desc. node	5908 Dec 27 13:36	5° $\mathbb{L}$ 50'13			5909 Nov 29 05:01	0° $\mathbb{L}$	
superior conj	5908 Dec 28 04:15	6° $\mathbb{L}$ 50'20	-0°04'20	superior conj	5909 Dec 09 07:22	17° $\mathbb{L}$ 55'31	0°36'17
minimum elong	5908 Dec 28 03:46	6° $\mathbb{L}$ 48'22	0°04'14	minimum elong	5909 Dec 09 10:23	18° $\mathbb{L}$ 08'33	0°35'53
behind sun begin	5908 Dec 27 18:21	6° $\mathbb{L}$ 09'42		desc. node	5909 Dec 14 10:37	26° $\mathbb{L}$ 36'40	
behind sun end	5908 Dec 28 13:12	7° $\mathbb{L}$ 26'59			5909 Dec 16 11:56	0° $\mathbb{L}$	
max. Earth dist.	5909 Jan 03 01:32	16° $\mathbb{L}$ 20'57	1.44401 AU	max. Earth dist.	5909 Dec 16 15:45	0° $\mathbb{L}$ 15'40	1.42960 AU
	5909 Jan 11 18:41	0° $\mathbb{L}$		evening rise	5909 Dec 23 11:29	11° $\mathbb{L}$ 10'51	
evening rise	5909 Jan 12 20:17	1° $\mathbb{L}$ 38'35			5910 Jan 04 21:27	0° $\mathbb{L}$	
	5909 Jan 31 22:41	0° $\mathbb{H}$		evening max el	5910 Jan 24 06:53	25° $\mathbb{L}$ 29'22	21°52'50
evening max el	5909 Feb 10 10:44	11° $\mathbb{H}$ 53'01	20°39'49		5910 Jan 29 22:58	0° $\mathbb{H}$	
asc. node	5909 Feb 17 14:40	16° $\mathbb{H}$ 36'51		retrograde	5910 Feb 02 12:50	0° $\mathbb{H}$ 58'49	
retrograde	5909 Feb 18 15:32	16° $\mathbb{H}$ 42'34		asc. node	5910 Feb 04 11:42	0° $\mathbb{H}$ 38'42	
evening set	5909 Feb 22 15:09	15° $\mathbb{H}$ 11'33			5910 Feb 05 20:11	30° $\mathbb{R}$ $\mathbb{L}$	
inferior conj	5909 Feb 27 23:20	9° $\mathbb{H}$ 02'17	2°54'18	evening set	5910 Feb 06 22:57	29° $\mathbb{L}$ 12'32	
minimum elong	5909 Feb 27 21:07	9° $\mathbb{H}$ 09'56	2°53'49	inferior conj	5910 Feb 12 07:01	22° $\mathbb{L}$ 53'41	2°21'50
min. Earth dist.	5909 Feb 28 13:06	8° $\mathbb{H}$ 15'03	0.67710 AU	minimum elong	5910 Feb 12 04:39	23° $\mathbb{L}$ 01'55	2°21'09
morning rise	5909 Mar 05 02:52	2° $\mathbb{H}$ 47'59		min. Earth dist.	5910 Feb 12 08:28	22° $\mathbb{L}$ 48'37	0.68131 AU
direct	5909 Mar 10 15:20	0° $\mathbb{H}$ 20'43		morning rise	5910 Feb 17 10:10	16° $\mathbb{L}$ 42'19	
morning max el	5909 Mar 21 17:10	6° $\mathbb{H}$ 58'02	24°09'15	direct	5910 Feb 22 08:13	14° $\mathbb{L}$ 35'50	
desc. node	5909 Mar 25 12:55	11° $\mathbb{H}$ 08'51		morning max el	5910 Mar 04 03:08	20° $\mathbb{L}$ 22'48	22°39'51
	5909 Apr 08 15:21	0° $\mathbb{Y}$		desc. node	5910 Mar 12 09:55	0° $\mathbb{H}$ 08'27	
morning set	5909 Apr 26 10:05	28° $\mathbb{Y}$ 22'38			5910 Mar 12 07:19	0° $\mathbb{H}$	
	5909 Apr 27 08:30	0° $\mathbb{L}$			5910 Apr 01 20:53	0° $\mathbb{Y}$	
max. Earth dist.	5909 Apr 30 02:58	4° $\mathbb{L}$ 53'55	1.38065 AU	morning set	5910 Apr 07 05:23	8° $\mathbb{Y}$ 37'53	
				max. Earth dist.	5910 Apr 11 22:52	16° $\mathbb{Y}$ 32'55	1.40277 AU
superior conj	5909 May 07 06:03	18° $\mathbb{L}$ 06'02	-1°24'18	superior conj	5910 Apr 19 18:00	0° $\mathbb{L}$ 15'48	-1°49'35
minimum elong	5909 May 07 10:44	18° $\mathbb{L}$ 28'25	1°23'39	minimum elong	5910 Apr 19 23:10	0° $\mathbb{L}$ 39'13	1°49'08
	5909 May 13 08:37	0° $\mathbb{H}$			5910 Apr 19 14:31	0° $\mathbb{L}$	
evening rise	5909 May 16 02:49	5° $\mathbb{H}$ 26'56		evening rise	5910 Apr 29 16:49	18° $\mathbb{L}$ 50'08	
asc. node	5909 May 16 13:54	6° $\mathbb{H}$ 21'30		asc. node	5910 May 03 10:57	25° $\mathbb{L}$ 53'27	
	5909 May 30 13:44	0° $\mathbb{L}$			5910 May 05 17:06	0° $\mathbb{H}$	
evening max el	5909 Jun 01 14:56	2° $\mathbb{L}$ 13'35	19°01'48	evening max el	5910 May 15 19:51	14° $\mathbb{H}$ 42'10	18°24'47
retrograde	5909 Jun 10 07:47	6° $\mathbb{L}$ 29'39		retrograde	5910 May 23 06:45	18° $\mathbb{H}$ 24'19	
evening set	5909 Jun 12 07:52	6° $\mathbb{L}$ 17'01		evening set	5910 May 25 13:43	18° $\mathbb{H}$ 04'20	
inferior conj	5909 Jun 20 14:07	2° $\mathbb{L}$ 03'05	0°16'21	inferior conj	5910 Jun 02 00:00	13° $\mathbb{H}$ 30'24	1°46'17
minimum elong	5909 Jun 20 14:46	2° $\mathbb{L}$ 01'56	0°16'04	minimum elong	5910 Jun 02 03:11	13° $\mathbb{H}$ 23'56	1°45'17
desc. node	5909 Jun 21 12:12	1° $\mathbb{L}$ 24'36		min. Earth dist.	5910 Jun 05 10:09	10° $\mathbb{H}$ 44'54	0.58435 AU
min. Earth dist.	5909 Jun 23 14:26	29° $\mathbb{H}$ 58'23	0.56503 AU	desc. node	5910 Jun 08 09:12	8° $\mathbb{H}$ 41'26	
	5909 Jun 23 13:28	30° $\mathbb{R}$ $\mathbb{H}$		morning rise	5910 Jun 09 13:30	8° $\mathbb{H}$ 01'35	
morning rise	5909 Jun 28 18:23	27° $\mathbb{H}$ 07'24		direct	5910 Jun 15 14:49	6° $\mathbb{H}$ 25'39	
direct	5909 Jul 03 23:16	26° $\mathbb{H}$ 03'31		morning max el	5910 Jun 30 00:04	14° $\mathbb{H}$ 08'47	27°04'45
	5909 Jul 14 05:16	0° $\mathbb{L}$			5910 Jul 12 16:14	0° $\mathbb{L}$	
morning max el	5909 Jul 18 05:32	3° $\mathbb{L}$ 24'34	25°49'00		5910 Jul 29 09:41	0° $\mathbb{L}$	
	5909 Aug 06 05:11	0° $\mathbb{L}$					

morning set	5910 Jul 30 07:17	1°♌53'02		morning set	5911 Jul 06 02:59	0°♏	
asc. node	5910 Jul 30 10:12	2°♌08'21		asc. node	5911 Jul 14 12:42	16°♏20'36	
superior conj	5910 Aug 06 07:58	17°♌10'11	1°06'21	max. Earth dist.	5911 Jul 17 07:13	22°♏10'35	
minimum elong	5910 Aug 06 05:43	16°♌57'41	1°05'57		5911 Jul 20 15:09	29°♏23'57	1.31969 AU
max. Earth dist.	5910 Aug 06 04:40	16°♌51'57	1.31876 AU		5911 Jul 20 21:43	0°♌	
	5910 Aug 12 04:34	0°♐		superior conj	5911 Jul 21 19:03	1°♌57'17	0°45'14
evening rise	5910 Aug 13 03:37	2°♐02'47		minimum elong	5911 Jul 21 17:13	1°♌47'08	0°44'49
	5910 Aug 28 04:20	0°♌		evening rise	5911 Jul 28 14:07	16°♌48'24	
desc. node	5910 Sep 04 08:27	10°♌17'27			5911 Aug 04 01:56	0°♐	
evening max el	5910 Sep 11 17:36	18°♌35'01	26°33'45	desc. node	5911 Aug 22 05:28	27°♐23'17	
retrograde	5910 Sep 25 15:54	25°♌42'55		evening max el	5911 Aug 24 11:37	29°♐40'51	25°19'41
evening set	5910 Oct 02 09:48	23°♌49'16			5911 Aug 24 19:43	0°♌	
min. Earth dist.	5910 Oct 06 07:17	21°♌14'00	0.59723 AU	retrograde	5911 Sep 07 09:45	6°♌43'54	
inferior conj	5910 Oct 09 12:49	18°♌41'23	-4°40'51	evening set	5911 Sep 13 05:35	5°♌25'46	
minimum elong	5910 Oct 09 19:01	18°♌29'07	4°39'34	min. Earth dist.	5911 Sep 17 23:15	2°♌46'00	0.57698 AU
morning rise	5910 Oct 17 06:22	14°♌03'41		inferior conj	5911 Sep 21 00:05	0°♌41'42	-5°16'39
direct	5910 Oct 19 13:56	13°♌44'16		minimum elong	5911 Sep 21 03:05	0°♌36'33	5°16'26
asc. node	5910 Oct 26 09:28	16°♌42'17			5911 Sep 22 00:35	30°♐	
morning max el	5910 Oct 27 06:12	17°♌29'49	18°15'05	morning rise	5911 Sep 29 02:51	26°♐27'16	
	5910 Nov 05 04:31	0°♐		direct	5911 Oct 01 14:40	26°♐08'38	
morning set	5910 Nov 12 02:13	12°♐41'14			5911 Oct 10 01:14	0°♌	
				morning max el	5911 Oct 10 09:12	0°♌18'35	18°58'22
superior conj	5910 Nov 21 10:47	0°♐11'09	1°07'11	asc. node	5911 Oct 13 06:29	3°♌28'34	
minimum elong	5910 Nov 21 14:35	0°♐28'23	1°06'44	morning set	5911 Oct 27 00:17	26°♌57'35	
	5910 Nov 21 08:20	0°♐			5911 Oct 28 13:14	0°♐	
max. Earth dist.	5910 Nov 29 01:25	13°♐34'19	1.41072 AU	superior conj	5911 Nov 04 09:21	13°♐22'24	1°27'54
desc. node	5910 Dec 01 07:38	17°♐22'39		minimum elong	5911 Nov 04 12:18	13°♐36'28	1°27'39
evening rise	5910 Dec 03 20:12	21°♐32'26		max. Earth dist.	5911 Nov 11 07:11	26°♐10'31	1.38957 AU
	5910 Dec 09 03:18	0°♏			5911 Nov 13 11:05	0°♐	
	5910 Dec 30 01:14	0°♏		evening rise	5911 Nov 15 03:27	2°♐54'53	
evening max el	5911 Jan 06 22:44	9°♏08'25	23°11'57	desc. node	5911 Nov 18 04:41	8°♐04'27	
retrograde	5911 Jan 17 07:33	15°♏16'39			5911 Dec 02 08:04	0°♏	
evening set	5911 Jan 22 05:40	13°♏14'48		evening max el	5911 Dec 20 12:02	22°♏50'57	24°31'09
asc. node	5911 Jan 22 08:44	13°♏08'16		retrograde	5911 Dec 31 22:38	29°♏32'16	
min. Earth dist.	5911 Jan 27 05:09	7°♏24'20	0.68158 AU	evening set	5912 Jan 06 09:47	27°♏15'33	
inferior conj	5911 Jan 27 15:10	6°♏49'52	1°41'14	asc. node	5912 Jan 09 05:45	24°♏17'37	
minimum elong	5911 Jan 27 13:08	6°♏56'52	1°40'33	min. Earth dist.	5912 Jan 11 00:57	21°♏59'03	0.67808 AU
morning rise	5911 Feb 01 20:31	0°♏42'59		inferior conj	5912 Jan 11 22:03	20°♏48'37	0°53'27
	5911 Feb 02 20:38	30°♐		minimum elong	5912 Jan 11 20:49	20°♏52'46	0°52'59
direct	5911 Feb 06 04:19	28°♏59'24		morning rise	5912 Jan 17 07:58	14°♏47'56	
	5911 Feb 09 18:16	0°♏		direct	5912 Jan 21 02:29	13°♏26'30	
morning max el	5911 Feb 14 18:12	3°♏57'16	21°15'42	morning max el	5912 Jan 28 16:59	17°♏44'27	20°02'48
desc. node	5911 Feb 27 06:54	19°♏43'04			5912 Feb 07 11:48	0°♏	
	5911 Mar 06 08:54	0°♐		desc. node	5912 Feb 14 03:55	9°♏43'27	
morning set	5911 Mar 17 20:28	17°♐34'30		morning set	5912 Feb 24 17:49	25°♏47'51	
max. Earth dist.	5911 Mar 25 00:57	29°♐07'31	1.42346 AU		5912 Feb 27 10:56	0°♐	
	5911 Mar 25 13:43	0°♐		max. Earth dist.	5912 Mar 06 10:29	12°♐34'05	1.43999 AU
superior conj	5911 Apr 01 08:50	11°♐25'31	-2°06'17	superior conj	5912 Mar 11 22:39	21°♐27'49	-2°08'39
minimum elong	5911 Apr 01 11:59	11°♐39'03	2°06'10	minimum elong	5912 Mar 11 20:22	21°♐18'31	2°08'35
	5911 Apr 11 20:50	0°♐			5912 Mar 17 02:29	0°♐	
evening rise	5911 Apr 12 17:14	1°♐32'13		evening rise	5912 Mar 24 23:40	13°♐24'15	
asc. node	5911 Apr 20 07:59	15°♐03'36			5912 Apr 03 19:00	0°♐	
evening max el	5911 Apr 29 06:25	27°♐38'02	18°07'39	asc. node	5912 Apr 06 05:01	3°♐45'03	
	5911 May 02 07:08	0°♐		evening max el	5912 Apr 11 19:17	10°♐52'38	18°09'47
retrograde	5911 May 05 23:22	1°♐02'51		retrograde	5912 Apr 18 05:17	14°♐15'10	
evening set	5911 May 08 13:21	0°♐32'46		evening set	5912 Apr 21 01:44	13°♐33'24	
	5911 May 09 17:51	30°♐		inferior conj	5912 Apr 27 05:36	8°♐19'20	3°18'36
inferior conj	5911 May 15 06:24	25°♐38'07	2°45'52	minimum elong	5912 Apr 27 07:23	8°♐14'34	3°18'22
minimum elong	5911 May 15 09:30	25°♐30'47	2°45'09	min. Earth dist.	5912 Apr 29 23:56	5°♐22'20	0.62790 AU
min. Earth dist.	5911 May 18 12:35	22°♐34'55	0.60635 AU	morning rise	5912 May 03 11:37	2°♐12'41	
morning rise	5911 May 22 03:21	19°♐45'24			5912 May 07 17:15	30°♐	
desc. node	5911 May 26 06:12	17°♐54'52		direct	5912 May 10 07:29	29°♐38'16	
direct	5911 May 28 18:12	17°♐36'42		desc. node	5912 May 12 03:12	29°♐48'21	
morning max el	5911 Jun 12 01:17	25°♐32'48	27°46'48		5912 May 13 00:06	0°♐	
	5911 Jun 16 04:03	0°♐					

morning max el	5912 May 24 08:08	7° $\text{C}$ 39'33	27°50'51	direct	5913 Apr 23 04:53	12° $\text{Y}$ 24'07	
	5912 Jun 10 10:53	0° $\text{II}$		desc. node	5913 Apr 29 00:14	14° $\text{Y}$ 07'14	
	5912 Jun 27 06:38	0° $\text{C}$		morning max el	5913 May 06 17:50	20° $\text{Y}$ 19'59	27°19'20
morning set	5912 Jun 27 12:11	0° $\text{C}$ 27'57			5913 May 15 01:03	0° $\text{C}$	
max. Earth dist.	5912 Jul 02 21:15	11° $\text{C}$ 39'42	1.32498 AU		5913 Jun 03 12:45	0° $\text{II}$	
asc. node	5912 Jul 03 04:15	12° $\text{C}$ 17'13		morning set	5913 Jun 11 03:00	14° $\text{II}$ 06'37	
				max. Earth dist.	5913 Jun 15 18:58	23° $\text{II}$ 27'53	1.33484 AU
					5913 Jun 18 22:10	0° $\text{C}$	
superior conj	5912 Jul 05 03:39	16° $\text{C}$ 32'52	0°20'22				
minimum elong	5912 Jul 05 02:42	16° $\text{C}$ 27'42	0°20'08				
	5912 Jul 11 08:15	0° $\text{C}$		superior conj	5913 Jun 19 07:45	0° $\text{C}$ 50'43	-0°07'34
evening rise	5912 Jul 12 01:53	1° $\text{C}$ 34'15		minimum elong	5913 Jun 19 08:09	0° $\text{C}$ 52'48	0°07'29
	5912 Jul 27 15:12	0° $\text{C}$		behind sun begin	5913 Jun 19 03:14	0° $\text{C}$ 26'49	
evening max el	5912 Aug 05 00:02	10° $\text{C}$ 08'29	23°45'59	behind sun end	5913 Jun 19 13:03	1° $\text{C}$ 18'48	
desc. node	5912 Aug 08 02:30	12° $\text{C}$ 50'17		asc. node	5913 Jun 20 01:19	2° $\text{C}$ 23'54	
retrograde	5912 Aug 18 16:02	17° $\text{C}$ 00'19		evening rise	5913 Jun 26 13:01	16° $\text{C}$ 14'06	
evening set	5912 Aug 23 01:32	16° $\text{C}$ 17'47			5913 Jul 03 09:52	0° $\text{C}$	
min. Earth dist.	5912 Aug 29 10:10	13° $\text{C}$ 15'05	0.55997 AU	evening max el	5913 Jul 17 14:28	20° $\text{C}$ 29'17	22°08'41
inferior conj	5912 Aug 31 15:06	11° $\text{C}$ 55'14	-5°16'19	desc. node	5913 Jul 25 23:30	26° $\text{C}$ 05'15	
minimum elong	5912 Aug 31 11:43	12° $\text{C}$ 00'22	5°16'04	retrograde	5913 Jul 30 10:28	26° $\text{C}$ 51'36	
morning rise	5912 Sep 09 00:20	7° $\text{C}$ 59'49		evening set	5913 Aug 02 08:37	26° $\text{C}$ 32'38	
direct	5912 Sep 11 19:41	7° $\text{C}$ 40'00		min. Earth dist.	5913 Aug 10 20:00	22° $\text{C}$ 53'14	0.54955 AU
morning max el	5912 Sep 22 01:10	12° $\text{C}$ 26'00	20°03'40	inferior conj	5913 Aug 11 13:43	22° $\text{C}$ 28'18	-4°25'09
asc. node	5912 Sep 29 03:31	21° $\text{C}$ 13'18		minimum elong	5913 Aug 11 05:06	22° $\text{C}$ 40'27	4°23'10
	5912 Oct 04 07:41	0° $\text{C}$		morning rise	5913 Aug 20 03:13	18° $\text{C}$ 38'37	
morning set	5912 Oct 10 05:00	11° $\text{C}$ 32'09		direct	5913 Aug 23 09:00	18° $\text{C}$ 15'10	
				morning max el	5913 Sep 04 04:52	23° $\text{C}$ 47'22	21°29'42
					5913 Sep 09 16:46	0° $\text{C}$	
superior conj	5912 Oct 17 21:56	27° $\text{C}$ 14'25	1°39'24	asc. node	5913 Sep 16 00:34	9° $\text{C}$ 43'25	
minimum elong	5912 Oct 17 23:26	27° $\text{C}$ 21'51	1°39'21	morning set	5913 Sep 24 13:59	26° $\text{C}$ 18'29	
	5912 Oct 19 07:11	0° $\text{C}$			5913 Sep 26 08:18	0° $\text{C}$	
max. Earth dist.	5912 Oct 23 12:48	8° $\text{C}$ 12'34	1.36879 AU				
evening rise	5912 Oct 27 08:06	15° $\text{C}$ 15'30					
desc. node	5912 Nov 04 01:43	28° $\text{C}$ 37'40		superior conj	5913 Oct 01 20:27	11° $\text{C}$ 35'19	1°42'59
	5912 Nov 04 21:48	0° $\text{C}$		minimum elong	5913 Oct 01 20:28	11° $\text{C}$ 35'25	1°43'00
	5912 Nov 25 23:29	0° $\text{C}$		max. Earth dist.	5913 Oct 06 00:05	20° $\text{C}$ 05'07	1.35059 AU
evening max el	5912 Dec 02 00:37	6° $\text{C}$ 35'22	25°43'33	evening rise	5913 Oct 10 06:26	28° $\text{C}$ 25'11	
retrograde	5912 Dec 14 09:13	13° $\text{C}$ 39'53			5913 Oct 11 02:29	0° $\text{C}$	
evening set	5912 Dec 20 09:39	11° $\text{C}$ 10'44		desc. node	5913 Oct 21 22:46	18° $\text{C}$ 57'23	
min. Earth dist.	5912 Dec 24 17:36	6° $\text{C}$ 28'46	0.67096 AU		5913 Oct 29 03:19	0° $\text{C}$	
inferior conj	5912 Dec 26 01:49	4° $\text{C}$ 46'32	-0°00'49	evening max el	5913 Nov 14 13:34	20° $\text{C}$ 17'09	26°41'43
minimum elong	5912 Dec 26 01:50	4° $\text{C}$ 46'29	0°00'47	retrograde	5913 Nov 27 14:31	27° $\text{C}$ 33'14	
transit middle	5912 Dec 26 01:50	4° $\text{C}$ 46'29	0°00'47	evening set	5913 Dec 04 03:20	24° $\text{C}$ 56'03	
transit begin	5912 Dec 25 23:01	4° $\text{C}$ 55'26		min. Earth dist.	5913 Dec 08 04:50	20° $\text{C}$ 49'03	0.66033 AU
transit end	5912 Dec 26 04:39	4° $\text{C}$ 37'32		inferior conj	5913 Dec 10 00:29	18° $\text{C}$ 39'58	-1°00'32
asc. node	5912 Dec 26 02:47	4° $\text{C}$ 43'30		minimum elong	5913 Dec 10 02:12	18° $\text{C}$ 34'56	0°59'47
	5912 Dec 30 07:34	30° $\text{C}$ 17'47		asc. node	5913 Dec 12 23:48	15° $\text{C}$ 21'52	
morning rise	5912 Dec 31 18:29	28° $\text{C}$ 54'02		morning rise	5913 Dec 16 01:54	12° $\text{C}$ 58'07	
direct	5913 Jan 04 01:19	27° $\text{C}$ 52'05		direct	5913 Dec 18 23:02	12° $\text{C}$ 11'57	
	5913 Jan 09 02:07	0° $\text{C}$		morning max el	5913 Dec 25 12:15	15° $\text{C}$ 44'28	18°22'10
morning max el	5913 Jan 10 23:32	1° $\text{C}$ 41'46	19°04'25		5914 Jan 05 00:38	0° $\text{C}$	
desc. node	5913 Jan 31 00:57	0° $\text{C}$ 02'10		morning set	5914 Jan 14 02:44	14° $\text{C}$ 28'52	
	5913 Jan 31 00:23	0° $\text{C}$		desc. node	5914 Jan 17 22:01	20° $\text{C}$ 34'14	
morning set	5913 Feb 02 21:19	4° $\text{C}$ 02'41			5914 Jan 23 20:27	0° $\text{C}$	
max. Earth dist.	5913 Feb 17 01:45	26° $\text{C}$ 03'70	1.45047 AU				
	5913 Feb 19 05:16	0° $\text{C}$		superior conj	5914 Jan 29 16:30	9° $\text{C}$ 11'06	-1°16'19
				minimum elong	5914 Jan 29 07:43	8° $\text{C}$ 36'38	1°15'17
superior conj	5913 Feb 19 13:00	0° $\text{C}$ 30'34	-1°51'48	max. Earth dist.	5914 Jan 30 20:31	11° $\text{C}$ 00'56	1.45382 AU
minimum elong	5913 Feb 19 04:41	29° $\text{C}$ 57'43	1°51'11		5914 Feb 11 23:27	0° $\text{C}$	
evening rise	5913 Mar 06 08:01	24° $\text{C}$ 18'45		evening rise	5914 Feb 14 17:16	4° $\text{C}$ 18'29	
	5913 Mar 09 19:14	0° $\text{C}$		greatest brilliancy	5914 Feb 25 05:00	20° $\text{C}$ 44'09	-0.8m
asc. node	5913 Mar 24 02:04	21° $\text{C}$ 48'14			5914 Mar 03 10:09	0° $\text{C}$	
evening max el	5913 Mar 26 07:33	24° $\text{C}$ 18'17	18°30'28	evening max el	5914 Mar 09 16:55	7° $\text{C}$ 50'20	19°08'38
retrograde	5913 Apr 01 19:51	27° $\text{C}$ 51'35		asc. node	5914 Mar 10 23:05	9° $\text{C}$ 02'14	
evening set	5913 Apr 04 22:50	26° $\text{C}$ 57'02		retrograde	5914 Mar 16 15:33	11° $\text{C}$ 45'50	
inferior conj	5913 Apr 10 17:24	21° $\text{C}$ 25'13	3°30'17	evening set	5914 Mar 20 01:42	10° $\text{C}$ 37'38	
minimum elong	5913 Apr 10 17:37	21° $\text{C}$ 24'33	3°30'16	inferior conj	5914 Mar 25 14:12	4° $\text{C}$ 49'37	3°25'50
min. Earth dist.	5913 Apr 12 20:41	18° $\text{C}$ 53'25	0.64689 AU	minimum elong	5914 Mar 25 13:08	4° $\text{C}$ 53'03	3°25'44
morning rise	5913 Apr 16 11:39	15° $\text{C}$ 11'59		min. Earth dist.	5914 Mar 27 02:02	2° $\text{C}$ 55'04	0.66207 AU



	5914 Mar 29 13:21	30° $\text{K}$	evening set	5915 Mar 04 07:58	24° $\text{K}$ 29'58	
morning rise	5914 Mar 31 00:12	28° $\text{K}$ 34'18	inferior conj	5915 Mar 09 17:06	18° $\text{K}$ 27'45	3°08'50
direct	5914 Apr 06 09:00	25° $\text{K}$ 46'19	minimum elong	5915 Mar 09 15:10	18° $\text{K}$ 34'17	3°08'30
	5914 Apr 15 11:58	0° $\text{Y}$	min. Earth dist.	5915 Mar 10 14:28	17° $\text{K}$ 15'49	0.67289 AU
desc. node	5914 Apr 15 21:16	0° $\text{Y}$ 19'27	morning rise	5915 Mar 14 22:08	12° $\text{K}$ 12'48	
morning max el	5914 Apr 19 03:46	3° $\text{Y}$ 22'36	26°19'08	direct	5915 Mar 20 18:37	9° $\text{K}$ 35'50
	5914 May 09 08:21	0° $\text{B}$	morning max el	5915 Apr 01 12:47	16° $\text{K}$ 37'43	24°59'43
morning set	5914 May 25 05:34	27° $\text{B}$ 06'10	desc. node	5915 Apr 02 18:19	17° $\text{K}$ 54'29	
	5914 May 26 18:24	0° $\text{II}$		5915 Apr 12 15:04	0° $\text{Y}$	
max. Earth dist.	5914 May 29 05:37	4° $\text{II}$ 45'46	1.34949 AU	5915 May 02 07:27	0° $\text{B}$	
			morning set	5915 May 07 15:13	9° $\text{B}$ 14'06	
superior conj	5914 Jun 03 05:00	14° $\text{II}$ 43'58	-0°37'25	max. Earth dist.	5915 May 11 06:14	15° $\text{B}$ 49'18
minimum elong	5914 Jun 03 07:04	14° $\text{II}$ 54'37	0°37'02			1.36844 AU
asc. node	5914 Jun 06 22:22	22° $\text{II}$ 26'24		superior conj	5915 May 17 16:25	28° $\text{B}$ 05'03
evening rise	5914 Jun 10 21:33	0° $\text{B}$ 41'47		minimum elong	5915 May 17 20:16	28° $\text{B}$ 23'57
	5914 Jun 10 13:28	0° $\text{B}$			5915 May 18 15:45	0° $\text{II}$
	5914 Jun 28 09:39	0° $\text{Q}$		asc. node	5915 May 24 19:24	12° $\text{II}$ 20'55
evening max el	5914 Jun 29 14:32	1° $\text{Q}$ 14'30	20°41'32	evening rise	5915 May 26 01:13	14° $\text{II}$ 51'05
retrograde	5914 Jul 10 22:37	6° $\text{Q}$ 48'53			5915 Jun 02 23:55	0° $\text{B}$
desc. node	5914 Jul 12 20:32	6° $\text{Q}$ 40'00		evening max el	5915 Jun 12 03:13	12° $\text{B}$ 40'50
evening set	5914 Jul 13 00:14	6° $\text{Q}$ 38'32		retrograde	5915 Jun 21 17:46	17° $\text{B}$ 23'21
inferior conj	5914 Jul 22 06:45	2° $\text{Q}$ 41'41	-2°46'10	evening set	5915 Jun 23 15:38	17° $\text{B}$ 12'59
minimum elong	5914 Jul 21 23:13	2° $\text{Q}$ 52'27	2°43'36	desc. node	5915 Jun 29 17:33	14° $\text{B}$ 45'16
min. Earth dist.	5914 Jul 23 06:44	2° $\text{Q}$ 07'24	0.54824 AU	inferior conj	5915 Jul 02 08:51	13° $\text{B}$ 07'56
	5914 Jul 27 06:49	30° $\text{K}$ $\text{B}$		minimum elong	5915 Jul 02 06:42	13° $\text{B}$ 11'21
morning rise	5914 Jul 30 21:48	28° $\text{B}$ 38'33		min. Earth dist.	5915 Jul 04 19:41	11° $\text{B}$ 34'37
direct	5914 Aug 03 18:15	28° $\text{B}$ 06'39		morning rise	5915 Jul 10 19:18	8° $\text{B}$ 33'51
	5914 Aug 10 21:03	0° $\text{Q}$		direct	5915 Jul 15 11:23	7° $\text{B}$ 45'01
morning max el	5914 Aug 16 22:21	4° $\text{Q}$ 27'03	23°10'42	morning max el	5915 Jul 29 11:40	14° $\text{B}$ 46'35
asc. node	5914 Sep 02 21:38	28° $\text{Q}$ 47'04			5915 Aug 10 13:18	0° $\text{Q}$
	5914 Sep 03 12:56	0° $\text{M}$		asc. node	5915 Aug 20 18:41	18° $\text{Q}$ 15'32
morning set	5914 Sep 09 01:12	11° $\text{M}$ 10'02		morning set	5915 Aug 24 12:55	26° $\text{Q}$ 01'45
					5915 Aug 26 09:23	0° $\text{M}$
superior conj	5914 Sep 16 01:36	26° $\text{M}$ 14'26	1°39'48	superior conj	5915 Aug 31 10:55	11° $\text{M}$ 04'06
minimum elong	5914 Sep 16 00:26	26° $\text{M}$ 08'11	1°39'44	minimum elong	5915 Aug 31 08:58	10° $\text{M}$ 53'26
	5914 Sep 17 19:53	0° $\text{B}$		max. Earth dist.	5915 Sep 02 00:09	14° $\text{M}$ 27'09
max. Earth dist.	5914 Sep 18 20:05	2° $\text{B}$ 07'45	1.33619 AU	evening rise	5915 Sep 07 15:43	26° $\text{M}$ 25'08
evening rise	5914 Sep 23 18:10	12° $\text{B}$ 11'45			5915 Sep 09 10:08	0° $\text{B}$
	5914 Oct 03 09:07	0° $\text{M}$		desc. node	5915 Sep 25 16:48	28° $\text{B}$ 25'57
desc. node	5914 Oct 08 19:48	8° $\text{M}$ 56'23			5915 Sep 26 18:18	0° $\text{M}$
	5914 Oct 24 10:35	0° $\text{J}$		evening max el	5915 Oct 10 12:38	16° $\text{M}$ 47'29
evening max el	5914 Oct 28 02:14	3° $\text{J}$ 45'32	27°18'21	retrograde	5915 Oct 24 06:07	24° $\text{M}$ 02'46
retrograde	5914 Nov 10 13:39	11° $\text{J}$ 03'42		evening set	5915 Oct 31 09:59	21° $\text{M}$ 32'15
evening set	5914 Nov 17 12:27	8° $\text{J}$ 25'15		min. Earth dist.	5915 Nov 04 01:45	18° $\text{M}$ 30'17
min. Earth dist.	5914 Nov 21 08:14	4° $\text{J}$ 52'35	0.64626 AU	inferior conj	5915 Nov 06 20:40	15° $\text{M}$ 48'29
inferior conj	5914 Nov 23 15:42	2° $\text{J}$ 22'49	-2°04'14	minimum elong	5915 Nov 07 02:13	15° $\text{M}$ 35'01
minimum elong	5914 Nov 23 19:22	2° $\text{J}$ 12'54	2°02'44	morning rise	5915 Nov 13 20:10	10° $\text{M}$ 37'41
	5914 Nov 25 22:38	30° $\text{K}$ $\text{M}$		direct	5915 Nov 16 05:00	10° $\text{M}$ 11'41
asc. node	5914 Nov 29 20:51	27° $\text{M}$ 02'29		asc. node	5915 Nov 16 17:55	10° $\text{M}$ 13'03
morning rise	5914 Nov 30 03:34	26° $\text{M}$ 54'44		morning max el	5915 Nov 22 21:20	13° $\text{M}$ 37'41
direct	5914 Dec 02 17:16	26° $\text{M}$ 20'28			5915 Dec 04 02:50	0° $\text{J}$
morning max el	5914 Dec 09 04:29	29° $\text{M}$ 45'21	17°56'49	morning set	5915 Dec 09 00:18	8° $\text{J}$ 34'16
	5914 Dec 09 10:18	0° $\text{J}$				
morning set	5914 Dec 26 13:30	25° $\text{J}$ 56'59		superior conj	5915 Dec 20 16:50	28° $\text{J}$ 43'56
	5914 Dec 28 23:33	0° $\text{B}$		minimum elong	5915 Dec 20 18:13	28° $\text{J}$ 49'44
desc. node	5915 Jan 04 19:03	11° $\text{B}$ 14'45		behind sun begin	5915 Dec 20 13:28	28° $\text{J}$ 29'52
				behind sun end	5915 Dec 20 22:59	29° $\text{J}$ 09'35
superior conj	5915 Jan 09 04:58	18° $\text{B}$ 22'43	-0°30'42		5915 Dec 21 11:05	0° $\text{B}$
minimum elong	5915 Jan 09 01:18	18° $\text{B}$ 08'02	0°30'09	desc. node	5915 Dec 22 16:02	2° $\text{B}$ 00'03
max. Earth dist.	5915 Jan 13 16:02	25° $\text{B}$ 28'26	1.44968 AU	max. Earth dist.	5915 Dec 27 09:14	9° $\text{B}$ 41'22
	5915 Jan 16 13:07	0° $\text{B}$		evening rise	5916 Jan 04 19:25	22° $\text{B}$ 57'55
evening rise	5915 Jan 25 08:43	13° $\text{B}$ 40'35			5916 Jan 09 09:40	0° $\text{B}$
	5915 Feb 05 01:59	0° $\text{K}$			5916 Jan 30 11:23	0° $\text{K}$
greatest brilliancy	5915 Feb 08 22:28	5° $\text{K}$ 43'39	-0.6m	evening max el	5916 Feb 03 20:45	5° $\text{K}$ 00'31
evening max el	5915 Feb 20 21:38	21° $\text{K}$ 25'12	20°02'38	retrograde	5916 Feb 12 11:42	10° $\text{K}$ 06'42
asc. node	5915 Feb 25 20:06	25° $\text{K}$ 13'29		asc. node	5916 Feb 12 17:08	10° $\text{K}$ 06'26
retrograde	5915 Feb 28 13:33	25° $\text{K}$ 52'37				























































































































































































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inferior conj	5916 Feb 21 23:36	2°  15'08	2°41'34	evening set	5917 Jan 30 23:16	22°  31'47	
minimum elong	5916 Feb 21 21:16	2°  23'13	2°40'59	inferior conj	5917 Feb 05 07:44	16°  09'35	2°05'34
min. Earth dist.	5916 Feb 22 07:54	1°  46'25	0.67939 AU	minimum elong	5917 Feb 05 05:27	16°  17'31	2°04'51
	5916 Feb 23 15:08	30°  R 		min. Earth dist.	5917 Feb 05 04:11	16°  21'56	0.68187 AU
morning rise	5916 Feb 27 02:40	26°  02'05		morning rise	5917 Feb 10 11:31	9°  59'50	
direct	5916 Mar 03 08:58	23°  43'30		direct	5917 Feb 15 03:18	8°  03'14	
	5916 Mar 13 21:56	0°  X		morning max el	5917 Feb 24 09:39	13°  29'06	22°02'58
morning max el	5916 Mar 13 21:46	29°  59'34	23°31'07	desc. node	5917 Mar 06 12:19	25°  44'33	
desc. node	5916 Mar 19 15:19	6°  X28'13			5917 Mar 09 14:22	0°  X	
	5916 Apr 05 11:30	0°  Y		morning set	5917 Mar 29 09:10	29°  X55'31	
morning set	5916 Apr 18 02:04	20°  Y14'21			5917 Mar 29 10:17	0°  Y	
max. Earth dist.	5916 Apr 22 02:01	27°  Y07'26	1.39007 AU	max. Earth dist.	5917 Apr 03 23:47	9°  Y08'16	1.41191 AU
	5916 Apr 23 17:06	0°  8					
superior conj	5916 Apr 29 14:10	10°  843'28	-1°35'45	superior conj	5917 Apr 11 17:41	22°  Y28'47	-1°58'03
minimum elong	5916 Apr 29 19:16	11°  807'19	1°35'09	minimum elong	5917 Apr 11 22:23	22°  Y49'38	1°57'44
evening rise	5916 May 08 21:10	28°  833'34			5917 Apr 15 22:07	0°  8	
	5916 May 09 15:01	0°  II		evening rise	5917 Apr 22 05:54	11°  840'35	
asc. node	5916 May 10 16:25	2°  II02'27		asc. node	5917 Apr 27 13:25	21°  825'57	
evening max el	5916 May 25 03:04	24°  II48'12	18°43'30		5917 May 02 15:19	0°  II	
retrograde	5916 Jun 02 05:54	28°  II48'19		evening max el	5917 May 08 10:46	7°  II29'24	18°15'05
evening set	5916 Jun 04 08:37	28°  II33'01		retrograde	5917 May 15 12:48	11°  II02'24	
inferior conj	5916 Jun 12 06:12	24°  II10'35	0°58'10	evening set	5917 May 17 22:40	10°  II38'32	
minimum elong	5916 Jun 12 08:19	24°  II06'39	0°57'24	inferior conj	5917 May 25 01:12	5°  II55'55	2°15'11
min. Earth dist.	5916 Jun 15 12:30	21°  II46'12	0.57267 AU	minimum elong	5917 May 25 04:35	5°  II48'33	2°14'13
desc. node	5916 Jun 15 14:34	21°  II42'33		min. Earth dist.	5917 May 28 11:05	2°  II59'30	0.59357 AU
morning rise	5916 Jun 20 04:38	18°  II59'42		morning rise	5917 Jun 01 07:34	0°  II15'15	
direct	5916 Jun 25 18:30	17°  II43'10			5917 Jun 01 18:34	30°  R 	
morning max el	5916 Jul 10 03:17	25°  II14'58	26°24'54	desc. node	5917 Jun 02 11:35	29°  838'32	
	5916 Jul 14 13:16	0°  6		direct	5917 Jun 07 15:36	28°  824'45	
	5916 Aug 02 16:00	0°  Omega			5917 Jun 13 18:32	0°  II	
asc. node	5916 Aug 06 15:42	8°  Omega01'24		morning max el	5917 Jun 22 00:44	6°  II15'21	27°27'09
morning set	5916 Aug 07 23:33	10°  Omega48'22			5917 Jul 09 18:26	0°  6	
				morning set	5917 Jul 23 07:23	25°  624'38	
superior conj	5916 Aug 14 22:21	25°  Omega57'31	1°16'36	asc. node	5917 Jul 24 12:43	27°  659'09	
minimum elong	5916 Aug 14 20:04	25°  Omega44'55	1°16'15		5917 Jul 25 11:22	0°  Omega	
max. Earth dist.	5916 Aug 15 09:25	26°  Omega58'42	1.32012 AU	superior conj	5917 Jul 30 10:05	10°  Omega48'51	0°57'52
	5916 Aug 16 18:19	0°  M 		minimum elong	5917 Jul 30 07:56	10°  Omega37'01	0°57'28
evening rise	5916 Aug 21 20:07	10°  M56'42		max. Earth dist.	5917 Jul 29 20:22	9°  Omega33'06	1.31856 AU
	5916 Aug 31 15:32	0°  Omega		evening rise	5917 Aug 06 05:00	25°  Omega39'09	
desc. node	5916 Sep 11 13:49	17°  Omega14'09			5917 Aug 08 06:43	0°  M 	
evening max el	5916 Sep 21 18:09	29°  Omega09'54	27°02'47		5917 Aug 25 13:04	0°  Omega	
	5916 Sep 22 15:53	0°  M 		desc. node	5917 Aug 29 10:51	5°  Omega03'56	
retrograde	5916 Oct 05 15:16	6°  M21'15		evening max el	5917 Sep 03 16:35	10°  Omega43'56	26°05'34
evening set	5916 Oct 12 16:02	4°  M10'24		retrograde	5917 Sep 17 15:40	17°  Omega50'54	
min. Earth dist.	5916 Oct 16 08:33	1°  M29'48	0.60911 AU	evening set	5917 Sep 24 01:40	16°  Omega11'38	
	5916 Oct 18 03:05	30°  R  Omega		min. Earth dist.	5917 Sep 28 05:29	13°  Omega36'41	0.58830 AU
inferior conj	5916 Oct 19 12:09	28°  Omega48'46	-4°10'27	inferior conj	5917 Oct 01 10:36	11°  Omega13'40	-4°59'24
minimum elong	5916 Oct 19 18:42	28°  Omega34'46	4°08'42	minimum elong	5917 Oct 01 15:54	11°  Omega03'47	4°58'35
morning rise	5916 Oct 26 23:28	23°  Omega58'36		morning rise	5917 Oct 09 08:26	6°  Omega46'08	
direct	5916 Oct 29 06:23	23°  Omega37'42		direct	5917 Oct 11 17:09	6°  Omega27'28	
asc. node	5916 Nov 02 14:57	24°  Omega57'02		morning max el	5917 Oct 19 19:44	10°  Omega22'27	18°30'55
morning max el	5916 Nov 05 11:36	27°  Omega13'28	17°59'58	asc. node	5917 Oct 20 11:59	11°  Omega03'00	
	5916 Nov 07 23:07	0°  M 			5917 Nov 01 17:30	0°  M 	
morning set	5916 Nov 21 04:48	22°  M01'47		morning set	5917 Nov 04 21:37	6°  M03'31	
	5916 Nov 25 12:36	0°  X 					
superior conj	5916 Dec 01 06:57	10°  X21'45	0°50'39	superior conj	5917 Nov 13 19:12	23°  M03'04	1°17'09
minimum elong	5916 Dec 01 10:35	10°  X37'44	0°50'10	minimum elong	5917 Nov 13 22:46	23°  M19'37	1°16'47
desc. node	5916 Dec 08 13:03	22°  X47'10			5917 Nov 17 14:25	0°  X 	
max. Earth dist.	5916 Dec 08 21:34	23°  X22'36	1.42195 AU	max. Earth dist.	5917 Nov 21 04:44	6°  X21'05	1.40177 AU
	5916 Dec 12 22:46	0°  Z		evening rise	5917 Nov 25 11:05	13°  X36'12	
evening rise	5916 Dec 14 16:56	2°  Z48'48		desc. node	5917 Nov 25 10:05	13°  X32'00	
	5917 Jan 01 19:40	0°  Z 			5917 Dec 05 18:20	0°  Z	
evening max el	5917 Jan 16 14:45	18°  Z37'49	22°26'00	evening max el	5917 Dec 28 00:19	0°  Z 	
retrograde	5917 Jan 26 08:13	24°  Z24'49		retrograde	5918 Jan 10 01:39	8°  Z42'19	

evening set	5918 Jan 15 05:05	6° $\approx$ 34'11		asc. node	5919 Jan 03 08:15	16° $\approx$ 07'51	
asc. node	5918 Jan 16 11:12	5° $\approx$ 22'57		min. Earth dist.	5919 Jan 03 19:42	15° $\approx$ 30'51	0.67553 AU
min. Earth dist.	5918 Jan 20 00:54	0° $\approx$ 57'48	0.68053 AU	inferior conj	5919 Jan 04 21:25	14° $\approx$ 06'41	0°31'13
inferior conj	5918 Jan 20 15:36	0° $\approx$ 07'42	1°21'51	minimum elong	5919 Jan 04 20:39	14° $\approx$ 09'11	0°30'55
minimum elong	5918 Jan 20 13:50	0° $\approx$ 13'41	1°21'12	morning rise	5919 Jan 10 09:55	8° $\approx$ 09'00	
	5918 Jan 20 17:51	30° $\approx$ 3		direct	5919 Jan 13 23:20	6° $\approx$ 56'03	
morning rise	5918 Jan 25 22:35	24° $\approx$ 02'56		morning max el	5919 Jan 21 05:51	11° $\approx$ 00'20	19°36'00
direct	5918 Jan 30 00:33	22° $\approx$ 28'56		greatest brilliancy	5919 Feb 03 05:28	28° $\approx$ 06'19	-0.7m
morning max el	5918 Feb 07 03:45	27° $\approx$ 08'51	20°42'57		5919 Feb 04 12:02	0° $\approx$	
	5918 Feb 09 18:58	0° $\approx$		desc. node	5919 Feb 08 06:22	5° $\approx$ 40'23	
desc. node	5918 Feb 21 09:20	15° $\approx$ 31'20		morning set	5919 Feb 15 11:11	16° $\approx$ 42'03	
	5918 Mar 03 02:47	0° $\approx$			5919 Feb 24 00:26	0° $\approx$	
morning set	5918 Mar 08 14:24	8° $\approx$ 26'33		max. Earth dist.	5919 Feb 27 16:57	5° $\approx$ 48'56	1.44535 AU
max. Earth dist.	5918 Mar 17 04:28	22° $\approx$ 03'55	1.43115 AU				
	5918 Mar 22 00:35	0° $\approx$		superior conj	5919 Mar 04 01:22	12° $\approx$ 45'32	-2°03'59
				minimum elong	5919 Mar 03 20:14	12° $\approx$ 42'55	2°03'46
superior conj	5918 Mar 23 22:11	3° $\approx$ 10'27	-2°09'23		5919 Mar 14 13:53	0° $\approx$	
minimum elong	5918 Mar 23 23:25	3° $\approx$ 15'38	2°09'22	evening rise	5919 Mar 17 20:38	5° $\approx$ 30'13	
evening rise	5918 Apr 04 23:12	24° $\approx$ 02'11		asc. node	5919 Apr 01 07:30	28° $\approx$ 01'28	
	5918 Apr 08 08:05	0° $\approx$			5919 Apr 02 03:41	0° $\approx$	
asc. node	5918 Apr 14 10:27	10° $\approx$ 24'59		evening max el	5919 Apr 05 11:47	3° $\approx$ 55'17	18°16'23
evening max el	5918 Apr 21 22:46	20° $\approx$ 34'43	18°06'19	retrograde	5919 Apr 11 21:30	7° $\approx$ 20'30	
retrograde	5918 Apr 28 11:28	23° $\approx$ 56'34		evening set	5919 Apr 14 20:50	6° $\approx$ 33'14	
evening set	5918 May 01 04:17	23° $\approx$ 21'40		inferior conj	5919 Apr 20 20:17	1° $\approx$ 11'23	3°25'47
inferior conj	5918 May 07 15:15	18° $\approx$ 18'53	3°02'40	minimum elong	5919 Apr 20 21:23	1° $\approx$ 08'16	3°25'41
minimum elong	5918 May 07 17:52	18° $\approx$ 12'20	3°02'11		5919 Apr 21 21:34	30° $\approx$ 8'1	
min. Earth dist.	5918 May 10 17:13	15° $\approx$ 15'22	0.61575 AU	min. Earth dist.	5919 Apr 23 08:21	28° $\approx$ 01'23'26	0.63644 AU
morning rise	5918 May 14 05:32	12° $\approx$ 19'20		morning rise	5919 Apr 26 20:54	25° $\approx$ 01'31	
desc. node	5918 May 20 08:35	9° $\approx$ 59'14		direct	5919 May 03 16:38	22° $\approx$ 01'53	
direct	5918 May 20 23:46	9° $\approx$ 58'02		desc. node	5919 May 07 05:38	22° $\approx$ 05'58'13	
morning max el	5918 Jun 04 04:25	17° $\approx$ 57'35	27°53'04		5919 May 17 04:52	0° $\approx$	
	5918 Jun 14 05:54	0° $\approx$		morning max el	5919 May 17 12:39	0° $\approx$ 19'25	27°41'29
	5918 Jul 02 12:27	0° $\approx$			5919 Jun 08 06:53	0° $\approx$	
morning set	5918 Jul 07 10:35	9° $\approx$ 44'50		morning set	5919 Jun 21 06:44	23° $\approx$ 14'04'49	
asc. node	5918 Jul 11 09:45	18° $\approx$ 04'07			5919 Jun 24 09:28	0° $\approx$	
max. Earth dist.	5918 Jul 13 05:21	21° $\approx$ 59'27	1.32135 AU	max. Earth dist.	5919 Jun 26 08:23	4° $\approx$ 04'49	1.32863 AU
				asc. node	5919 Jun 28 06:46	8° $\approx$ 11'09	
superior conj	5918 Jul 14 20:23	25° $\approx$ 32'28	0°35'06				
minimum elong	5918 Jul 14 18:51	25° $\approx$ 24'07	0°34'46	superior conj	5919 Jun 29 03:19	10° $\approx$ 01'21	0°08'52
	5918 Jul 16 21:07	0° $\approx$		minimum elong	5919 Jun 29 02:53	9° $\approx$ 59'01	0°08'45
evening rise	5918 Jul 21 16:18	10° $\approx$ 26'13		behind sun begin	5919 Jun 28 22:23	9° $\approx$ 34'50	
	5918 Jul 31 15:18	0° $\approx$		behind sun end	5919 Jun 29 07:23	10° $\approx$ 23'12	
desc. node	5918 Aug 16 07:52	21° $\approx$ 32'13		evening rise	5919 Jul 06 04:02	25° $\approx$ 10'29	
evening max el	5918 Aug 16 07:54	21° $\approx$ 32'17	24°41'30		5919 Jul 08 11:19	0° $\approx$	
retrograde	5918 Aug 30 04:51	28° $\approx$ 31'40			5919 Jul 27 00:24	0° $\approx$	
evening set	5918 Sep 04 10:57	27° $\approx$ 29'45		evening max el	5919 Jul 28 20:11	1° $\approx$ 52'49	23°04'07
min. Earth dist.	5918 Sep 09 19:09	24° $\approx$ 42'02	0.56911 AU	desc. node	5919 Aug 03 04:54	6° $\approx$ 07'28	
inferior conj	5918 Sep 12 13:20	22° $\approx$ 55'13	-5°22'04	retrograde	5919 Aug 11 05:15	8° $\approx$ 34'00	
minimum elong	5918 Sep 12 13:52	22° $\approx$ 54'20	5°22'03	evening set	5919 Aug 14 23:07	8° $\approx$ 03'21	
morning rise	5918 Sep 20 19:06	18° $\approx$ 49'25		min. Earth dist.	5919 Aug 22 04:58	4° $\approx$ 46'55	0.55461 AU
direct	5918 Sep 23 09:41	18° $\approx$ 30'30		inferior conj	5919 Aug 23 20:29	3° $\approx$ 49'42	-5°01'15
morning max el	5918 Oct 02 18:22	22° $\approx$ 54'53	19°23'24	minimum elong	5919 Aug 23 14:19	3° $\approx$ 58'39	5°00'22
asc. node	5918 Oct 07 09:02	28° $\approx$ 16'15		morning rise	5919 Sep 01 07:44	29° $\approx$ 05'58'52	
	5918 Oct 08 14:15	0° $\approx$			5919 Sep 01 05:48	30° $\approx$ 8'0	
morning set	5918 Oct 19 22:54	20° $\approx$ 28'51		direct	5919 Sep 04 07:29	29° $\approx$ 03'7'42	
	5918 Oct 24 16:47	0° $\approx$			5919 Sep 07 06:57	0° $\approx$	
				morning max el	5919 Sep 15 04:57	4° $\approx$ 42'02	20°37'55
superior conj	5918 Oct 28 00:19	6° $\approx$ 33'14	1°33'49	asc. node	5919 Sep 24 06:05	16° $\approx$ 01'21'33	
minimum elong	5918 Oct 28 02:40	6° $\approx$ 44'44	1°33'40		5919 Oct 01 16:46	0° $\approx$	
max. Earth dist.	5918 Nov 03 09:52	18° $\approx$ 40'51	1.38058 AU	morning set	5919 Oct 04 05:43	5° $\approx$ 09'08	
evening rise	5918 Nov 07 03:54	25° $\approx$ 24'49					
	5918 Nov 09 19:28	0° $\approx$		superior conj	5919 Oct 11 17:32	20° $\approx$ 03'8'24	1°41'49
desc. node	5918 Nov 12 07:07	4° $\approx$ 10'50		minimum elong	5919 Oct 11 18:23	20° $\approx$ 42'42	1°41'48
	5918 Nov 29 09:21	0° $\approx$			5919 Oct 16 10:01	0° $\approx$	
evening max el	5918 Dec 12 18:18	16° $\approx$ 03'01	25°03'14	max. Earth dist.	5919 Oct 16 17:40	0° $\approx$ 37'08	1.36069 AU
retrograde	5918 Dec 24 14:50	22° $\approx$ 55'01		evening rise	5919 Oct 20 16:33	8° $\approx$ 07'08	
evening set	5918 Dec 30 07:36	20° $\approx$ 32'55		desc. node	5919 Oct 30 04:10	24° $\approx$ 38'51	

	5919 Nov 02 12:20	0°♊		desc. node	5920 Oct 16 01:11	14°♎50'21	
evening max el	5919 Nov 25 07:07	29°♊47'23	26°10'29		5920 Oct 26 08:14	0°♊	
	5919 Nov 25 12:21	0°♊		evening max el	5920 Nov 06 19:52	13°♊23'45	27°00'20
retrograde	5919 Dec 07 23:04	6°♊57'24		retrograde	5920 Nov 20 01:47	20°♊41'56	
evening set	5919 Dec 14 05:05	4°♊24'09		evening set	5920 Nov 26 19:26	18°♊02'52	
	5919 Dec 18 09:20	30°♋♊		min. Earth dist.	5920 Nov 30 18:15	14°♊11'04	0.65474 AU
min. Earth dist.	5919 Dec 18 10:15	29°♊57'14	0.66691 AU	inferior conj	5920 Dec 02 19:02	11°♊52'01	-1°27'14
inferior conj	5919 Dec 19 23:17	28°♊03'04	-0°25'32	minimum elong	5920 Dec 02 21:33	11°♊44'50	1°26'09
minimum elong	5919 Dec 19 23:58	28°♊00'56	0°25'12	asc. node	5920 Dec 07 02:22	7°♊30'48	
asc. node	5919 Dec 21 05:18	26°♊31'44		morning rise	5920 Dec 09 00:44	6°♊15'59	
morning rise	5919 Dec 25 19:25	22°♊14'52		direct	5920 Dec 11 18:24	5°♊35'25	
direct	5919 Dec 28 21:58	21°♊19'59		morning max el	5920 Dec 18 05:56	9°♊03'28	18°09'21
morning max el	5920 Jan 04 15:19	25°♊00'40	18°44'29		5921 Jan 01 18:27	0°♊	
	5920 Jan 08 21:31	0°♊		morning set	5921 Jan 05 18:32	6°♊32'31	
morning set	5920 Jan 26 00:24	25°♊53'41		desc. node	5921 Jan 12 00:26	16°♊41'20	
desc. node	5920 Jan 26 03:25	26°♊05'31			5921 Jan 20 08:47	0°♋	
	5920 Jan 28 15:06	0°♋					
max. Earth dist.	5920 Feb 10 10:42	20°♋05'32	1.45282 AU	superior conj	5921 Jan 20 13:46	0°♋19'41	-0°57'31
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superior conj	5920 Feb 11 08:56	21°♋32'46	-1°38'42	max. Earth dist.	5921 Jan 23 06:08	4°♋32'54	1.45288 AU
minimum elong	5920 Feb 10 23:29	20°♋55'43	1°37'48	evening rise	5921 Feb 05 19:38	25°♋41'41	
	5920 Feb 16 17:48	0°♋			5921 Feb 08 14:11	0°♋	
evening rise	5920 Feb 26 19:06	16°♋01'25		greatest brilliancy	5921 Feb 18 07:18	14°♋55'31	-0.7m
greatest brilliancy	5920 Mar 04 22:33	27°♋30'09	-0.9m		5921 Mar 01 08:52	0°♌	
	5920 Mar 06 12:12	0°♌		evening max el	5921 Mar 02 06:33	0°♌57'32	19°29'44
asc. node	5920 Mar 18 04:33	16°♌35'44		asc. node	5921 Mar 05 01:36	3°♌24'45	
evening max el	5920 Mar 18 23:06	17°♌24'36	18°44'33	retrograde	5921 Mar 09 11:54	5°♌06'01	
retrograde	5920 Mar 25 14:48	21°♌06'05		evening set	5921 Mar 13 01:20	3°♌51'50	
evening set	5920 Mar 28 20:46	20°♌05'41			5921 Mar 16 21:56	30°♋♌	
inferior conj	5920 Apr 03 12:21	14°♌26'27	3°30'06	inferior conj	5921 Mar 18 12:05	27°♋57'20	3°19'59
minimum elong	5920 Apr 03 11:59	14°♌27'35	3°30'05	minimum elong	5921 Mar 18 10:36	28°♋02'14	3°19'49
min. Earth dist.	5920 Apr 05 08:53	12°♌09'46	0.65386 AU	min. Earth dist.	5921 Mar 19 17:35	26°♋20'32	0.66716 AU
morning rise	5920 Apr 09 02:41	8°♌11'56		morning rise	5921 Mar 23 19:34	21°♋41'39	
direct	5920 Apr 15 16:48	5°♌22'51		direct	5921 Mar 29 23:19	18°♋57'18	
desc. node	5920 Apr 23 02:40	8°♌09'53		desc. node	5921 Apr 09 23:41	25°♋00'27	
morning max el	5920 Apr 28 22:55	13°♌11'44	26°56'48	morning max el	5921 Apr 11 08:44	26°♋21'26	25°47'09
	5920 May 12 11:51	0°♍			5921 Apr 14 17:33	0°♌	
	5920 May 30 22:16	0°♍			5921 May 06 01:50	0°♍	
morning set	5920 Jun 03 16:50	7°♍04'19		morning set	5921 May 17 12:52	19°♍43'50	
max. Earth dist.	5920 Jun 08 01:56	15°♍41'23	1.34057 AU	max. Earth dist.	5921 May 21 07:59	26°♍50'19	1.35709 AU
					5921 May 22 23:21	0°♍	
superior conj	5920 Jun 12 04:49	24°♍09'28	-0°20'02	superior conj	5921 May 26 22:15	7°♍49'44	-0°50'19
minimum elong	5920 Jun 12 05:53	24°♍15'05	0°19'51	minimum elong	5921 May 27 01:06	8°♍04'04	0°49'49
asc. node	5920 Jun 14 03:49	28°♍16'27		asc. node	5921 Jun 01 00:51	18°♍15'54	
	5920 Jun 14 23:24	0°♎		evening rise	5921 Jun 03 21:06	24°♍06'38	
evening rise	5920 Jun 19 14:20	9°♎46'07			5921 Jun 06 19:09	0°♎	
	5920 Jun 30 05:15	0°♎		evening max el	5921 Jun 21 19:04	23°♎21'16	20°09'37
evening max el	5920 Jul 09 13:45	12°♎19'37	21°29'36	retrograde	5921 Jul 02 09:50	28°♎33'31	
desc. node	5920 Jul 20 01:55	18°♎16'20		evening set	5921 Jul 04 07:52	28°♎24'02	
retrograde	5920 Jul 21 19:56	18°♎23'38		desc. node	5921 Jul 06 22:54	27°♎42'42	
evening set	5920 Jul 24 07:10	18°♎09'42		inferior conj	5921 Jul 13 10:07	24°♎25'21	-1°56'08
inferior conj	5920 Aug 02 14:53	14°♎09'55	-3°47'43	minimum elong	5921 Jul 13 04:42	24°♎33'24	1°54'10
minimum elong	5920 Aug 02 05:52	14°♎22'32	3°45'10	min. Earth dist.	5921 Jul 15 02:28	23°♎25'28	0.55060 AU
min. Earth dist.	5920 Aug 02 14:39	14°♎10'14	0.54783 AU	morning rise	5921 Jul 22 00:05	20°♎10'15	
morning rise	5920 Aug 11 05:37	10°♎17'25		direct	5921 Jul 26 04:03	19°♎32'31	
direct	5920 Aug 14 16:56	9°♎51'20		morning max el	5921 Aug 08 18:51	26°♎12'25	23°55'29
morning max el	5920 Aug 27 03:47	15°♎43'43	22°11'30		5921 Aug 12 09:50	0°♎	
	5920 Sep 07 04:07	0°♏		asc. node	5921 Aug 28 00:09	24°♎21'44	
asc. node	5920 Sep 10 03:07	5°♏06'38			5921 Aug 30 19:47	0°♏	
morning set	5920 Sep 17 15:49	19°♏58'00		morning set	5921 Sep 02 03:27	4°♏50'25	
	5920 Sep 22 09:13	0°♐					
superior conj	5920 Sep 24 19:11	5°♐07'47	1°42'24	superior conj	5921 Sep 09 02:25	19°♏52'46	1°36'38
minimum elong	5920 Sep 24 18:40	5°♐05'00	1°42'23	minimum elong	5921 Sep 09 00:52	19°♏44'23	1°36'31
max. Earth dist.	5920 Sep 28 08:28	12°♐31'43	1.34392 AU	max. Earth dist.	5921 Sep 11 07:55	24°♏40'37	1.33126 AU
evening rise	5920 Oct 02 20:59	21°♐33'00			5921 Sep 13 20:26	0°♐	
	5920 Oct 07 08:51	0°♑		evening rise	5921 Sep 16 13:18	5°♐32'25	

































































































































	5921 Sep 29 23:52	0°♍			5922 Aug 22 09:07	0°♎	
desc. node	5921 Oct 02 22:11	4°♍38'13					
evening max el	5921 Oct 20 07:41	26°♍42'16	27°25'46	superior conj	5922 Aug 24 12:52	4°♎44'52	1°25'21
	5921 Oct 24 04:18	0°♎		minimum elong	5922 Aug 24 10:43	4°♎33'05	1°25'05
retrograde	5921 Nov 02 22:27	4°♎00'35		max. Earth dist.	5922 Aug 25 14:28	7°♎05'31	1.32296 AU
evening set	5921 Nov 10 00:05	1°♎24'01		evening rise	5922 Aug 31 14:06	19°♎54'45	
	5921 Nov 11 17:23	30°♎			5922 Sep 05 15:16	0°♏	
min. Earth dist.	5921 Nov 13 17:42	28°♎05'09	0.63920 AU	desc. node	5922 Sep 19 19:11	23°♏51'48	
inferior conj	5921 Nov 16 06:16	25°♎28'41	-2°31'52		5922 Sep 24 06:28	0°♏	
minimum elong	5921 Nov 16 10:46	25°♎17'00	2°30'07	evening max el	5922 Oct 02 16:28	9°♎29'21	27°20'51
morning rise	5921 Nov 22 23:00	20°♎07'40		retrograde	5922 Oct 16 12:02	16°♎42'58	
asc. node	5921 Nov 23 23:24	19°♎48'01		evening set	5922 Oct 23 15:33	14°♎19'40	
direct	5921 Nov 25 10:09	19°♎37'30		min. Earth dist.	5922 Oct 27 06:55	11°♎27'56	0.62074 AU
morning max el	5921 Dec 01 22:52	23°♎02'08	17°51'19	inferior conj	5922 Oct 30 05:55	8°♎44'44	-3°36'01
	5921 Dec 07 10:55	0°♎		minimum elong	5922 Oct 30 12:04	8°♎30'33	3°34'04
morning set	5921 Dec 18 16:20	18°♎32'27		morning rise	5922 Nov 06 10:29	3°♎42'03	
	5921 Dec 25 10:19	0°♏		direct	5922 Nov 08 18:01	3°♎18'37	
desc. node	5921 Dec 29 21:28	7°♏24'19		asc. node	5922 Nov 10 20:26	3°♎38'34	
				morning max el	5922 Nov 15 14:58	6°♎48'03	17°51'16
superior conj	5921 Dec 31 11:13	9°♏58'37	-0°11'07		5922 Nov 30 14:42	0°♎	
minimum elong	5921 Dec 31 09:58	9°♏53'32	0°10'55	morning set	5922 Dec 01 11:25	1°♎33'09	
behind sun begin	5921 Dec 31 02:36	9°♏23'33					
behind sun end	5921 Dec 31 17:19	10°♏23'28		superior conj	5922 Dec 12 10:24	20°♎52'24	0°30'43
max. Earth dist.	5922 Jan 06 00:23	18°♏54'03	1.44572 AU	minimum elong	5922 Dec 12 13:05	21°♎03'54	0°30'21
	5922 Jan 13 02:13	0°♐		desc. node	5922 Dec 16 18:28	28°♎10'28	
evening rise	5922 Jan 16 07:04	4°♐56'30			5922 Dec 17 20:58	0°♐	
	5922 Feb 02 00:56	0°♑		max. Earth dist.	5922 Dec 19 15:31	2°♏54'14	1.43214 AU
evening max el	5922 Feb 13 08:53	14°♑32'16	20°29'48	evening rise	5922 Dec 26 20:39	14°♏23'53	
asc. node	5922 Feb 19 22:37	19°♑04'14			5923 Jan 06 02:54	0°♐	
retrograde	5922 Feb 21 10:13	19°♑15'53		evening max el	5923 Jan 27 05:50	28°♐08'33	21°41'28
evening set	5922 Feb 25 08:25	17°♑47'07			5923 Jan 29 04:44	0°♑	
inferior conj	5922 Mar 02 16:48	11°♑39'41	2°58'25	retrograde	5923 Feb 05 07:44	3°♑31'44	
minimum elong	5922 Mar 02 14:38	11°♑47'05	2°57'58	asc. node	5923 Feb 06 19:39	3°♑19'54	
min. Earth dist.	5922 Mar 03 08:31	10°♑45'56	0.67617 AU	evening set	5923 Feb 09 16:15	1°♑47'40	
morning rise	5922 Mar 07 20:37	5°♑25'09			5923 Feb 11 12:49	30°♑	
direct	5922 Mar 13 11:14	2°♑55'02		inferior conj	5923 Feb 15 00:14	25°♐30'07	2°27'19
morning max el	5922 Mar 24 17:22	9°♑39'06	24°22'28	minimum elong	5923 Feb 14 21:52	25°♐38'21	2°26'38
desc. node	5922 Mar 27 20:43	13°♑02'31		min. Earth dist.	5923 Feb 15 03:26	25°♐18'58	0.68095 AU
	5922 Apr 09 19:18	0°♒		morning rise	5923 Feb 20 03:17	19°♐18'20	
	5922 Apr 28 18:02	0°♓		direct	5923 Feb 25 03:31	17°♐08'35	
morning set	5922 Apr 29 13:35	1°♓24'55		morning max el	5923 Mar 07 02:57	23°♐02'54	22°53'02
max. Earth dist.	5922 May 03 05:06	7°♓53'18	1.37741 AU		5923 Mar 13 05:12	0°♑	
				desc. node	5923 Mar 14 17:45	1°♑55'50	
superior conj	5922 May 10 04:23	20°♓53'51	-1°20'01		5923 Apr 03 04:10	0°♒	
minimum elong	5922 May 10 08:52	21°♓15'28	1°19'22	morning set	5923 Apr 10 13:03	11°♒52'09	
	5922 May 14 20:07	0°♔		max. Earth dist.	5923 Apr 15 00:56	19°♒26'56	1.39950 AU
evening rise	5922 May 18 21:50	8°♔05'08			5923 Apr 21 00:50	0°♓	
asc. node	5922 May 18 21:52	8°♔05'16					
	5922 May 31 06:20	0°♕		superior conj	5923 Apr 22 19:03	3°♓11'37	-1°46'12
evening max el	5922 Jun 04 12:58	5°♕06'09	19°09'04	minimum elong	5923 Apr 23 00:16	3°♓35'28	1°45'41
retrograde	5922 Jun 13 11:05	9°♕28'30		evening rise	5923 May 02 13:30	21°♓33'46	
evening set	5922 Jun 15 10:27	9°♕16'34		asc. node	5923 May 05 18:53	27°♓39'56	
inferior conj	5922 Jun 23 19:39	5°♕05'16	0°00'12		5923 May 07 01:04	0°♔	
minimum elong	5922 Jun 23 19:40	5°♕05'15	0°00'11	evening max el	5923 May 18 16:43	17°♔29'42	18°29'00
transit middle	5922 Jun 23 19:40	5°♕05'15	0°00'11	retrograde	5923 May 26 07:18	21°♔15'58	
transit begin	5922 Jun 23 15:51	5°♕11'42		evening set	5923 May 28 13:12	20°♔57'15	
transit end	5922 Jun 23 23:28	4°♕58'48		inferior conj	5923 Jun 05 02:21	16°♔26'15	1°34'36
desc. node	5922 Jun 23 19:56	5°♕04'48		minimum elong	5923 Jun 05 05:21	16°♔20'17	1°33'36
min. Earth dist.	5922 Jun 26 17:06	3°♕08'17	0.56259 AU	min. Earth dist.	5923 Jun 08 11:55	13°♔45'39	0.58122 AU
morning rise	5922 Jul 02 01:44	0°♕15'17		desc. node	5923 Jun 10 16:58	12°♔12'35	
	5922 Jul 02 18:43	30°♕		morning rise	5923 Jun 12 18:15	11°♔01'52	
direct	5922 Jul 07 03:24	29°♔15'32		direct	5923 Jun 18 16:48	9°♔31'11	
	5922 Jul 11 12:10	0°♕		morning max el	5923 Jul 03 02:03	17°♔11'21	26°55'26
morning max el	5922 Jul 21 08:20	6°♕31'54	25°35'31		5923 Jul 13 16:01	0°♕	
	5922 Aug 07 12:30	0°♌			5923 Jul 30 21:52	0°♌	
asc. node	5922 Aug 14 21:09	13°♌58'08		asc. node	5923 Aug 01 18:11	3°♌49'43	
morning set	5922 Aug 17 14:53	19°♌40'22		morning set	5923 Aug 02 00:33	4°♌23'15	

superior conj	5923 Aug 09 00:39	19°Ω38'06	1°09'11	superior conj	5924 Jul 23 11:59	4°Ω26'17	0°48'41
minimum elong	5923 Aug 08 22:22	19°Ω25'29	1°08'48	minimum elong	5924 Jul 23 10:03	4°Ω15'36	0°48'17
max. Earth dist.	5923 Aug 09 01:05	19°Ω40'31	1.31901 AU	evening rise	5924 Jul 30 06:54	19°Ω16'55	
	5923 Aug 13 17:53	0°൬			5924 Aug 04 12:08	0°൬	
evening rise	5923 Aug 15 20:44	4°൬32'07		desc. node	5924 Aug 23 13:14	29°൬35'23	
	5923 Aug 29 08:43	0°Ω			5924 Aug 23 22:09	0°Ω	
desc. node	5923 Sep 06 16:12	12°Ω17'17		evening max el	5924 Aug 26 14:31	2°Ω44'59	25°32'17
evening max el	5923 Sep 14 19:26	21°Ω32'24	26°42'16	retrograde	5924 Sep 09 13:00	9°Ω49'22	
retrograde	5923 Sep 28 17:19	28°Ω40'51		evening set	5924 Sep 15 13:01	8°Ω25'31	
evening set	5923 Oct 05 13:28	26°Ω42'24		min. Earth dist.	5924 Sep 20 02:24	5°Ω47'40	0.57982 AU
min. Earth dist.	5923 Oct 09 09:18	24°Ω06'20	0.60034 AU	inferior conj	5924 Sep 23 04:51	3°Ω37'54	-5°13'14
inferior conj	5923 Oct 12 14:36	21°Ω31'05	-4°33'24	minimum elong	5924 Sep 23 08:35	3°Ω31'21	5°12'52
minimum elong	5923 Oct 12 20:59	21°Ω18'11	4°31'59		5924 Sep 29 07:06	30°R൬	
morning rise	5923 Oct 20 06:36	16°Ω50'03		morning rise	5924 Oct 01 06:28	29°൬20'17	
direct	5923 Oct 22 13:56	16°Ω30'17		direct	5924 Oct 03 17:21	29°൬01'43	
asc. node	5923 Oct 28 17:28	18°Ω58'39			5924 Oct 07 22:15	0°Ω	
morning max el	5923 Oct 30 02:58	20°Ω12'53	18°10'32	morning max el	5924 Oct 12 07:28	3°Ω07'21	18°50'36
	5923 Nov 06 10:14	0°൬		asc. node	5924 Oct 14 14:30	5°Ω34'53	
morning set	5923 Nov 14 21:43	15°൬16'38		morning set	5924 Oct 28 18:34	29°Ω29'36	
	5923 Nov 22 19:10	0°✠			5924 Oct 29 00:46	0°൬	
superior conj	5923 Nov 24 10:31	2°✠58'28	1°03'09	superior conj	5924 Nov 06 06:39	16°൬02'45	1°25'22
minimum elong	5923 Nov 24 14:20	3°✠15'37	1°02'42	minimum elong	5924 Nov 06 09:46	16°൬17'36	1°25'05
max. Earth dist.	5923 Dec 02 02:05	16°✠19'41	1.41373 AU	max. Earth dist.	5924 Nov 13 08:06	29°൬01'28	1.39271 AU
desc. node	5923 Dec 03 15:28	18°✠56'33			5924 Nov 13 21:20	0°✠	
evening rise	5923 Dec 07 02:14	24°✠36'46		evening rise	5924 Nov 17 06:09	5°✠50'20	
	5923 Dec 10 11:03	0°Ω		desc. node	5924 Nov 19 12:30	9°✠39'13	
	5923 Dec 31 00:32	0°≈			5924 Dec 02 12:45	0°Ω	
evening max el	5924 Jan 09 22:10	11°≈46'56	22°59'59	evening max el	5924 Dec 22 11:41	25°Ω28'59	24°19'33
retrograde	5924 Jan 20 02:57	17°≈49'46			5924 Dec 27 21:03	0°≈	
evening set	5924 Jan 24 23:15	15°≈50'03		retrograde	5925 Jan 02 18:46	2°≈06'17	
asc. node	5924 Jan 24 16:42	16°≈03'23			5925 Jan 07 23:55	30°RΩ	
inferior conj	5924 Jan 30 08:27	9°≈25'42	1°47'55	evening set	5925 Jan 08 03:53	29°Ω51'41	
minimum elong	5924 Jan 30 06:20	9°≈33'00	1°47'12	asc. node	5925 Jan 10 13:44	27°Ω23'32	
min. Earth dist.	5924 Jan 30 00:03	9°≈54'40	0.68178 AU	min. Earth dist.	5925 Jan 12 20:11	24°Ω30'00	0.67884 AU
morning rise	5924 Feb 04 13:19	3°≈18'08		inferior conj	5925 Jan 13 15:39	23°Ω24'35	1°01'11
direct	5924 Feb 08 23:10	1°≈31'13		minimum elong	5925 Jan 13 14:16	23°Ω29'16	1°00'39
morning max el	5924 Feb 17 17:09	6°≈36'00	21°27'38	morning rise	5925 Jan 19 00:44	17°Ω22'48	
desc. node	5924 Feb 29 14:46	21°≈25'49		direct	5925 Jan 22 21:07	15°Ω58'16	
	5924 Mar 06 14:04	0°✠		morning max el	5925 Jan 30 14:45	20°Ω21'36	20°12'45
morning set	5924 Mar 20 08:06	20°✠59'21			5925 Feb 07 13:08	0°≈	
	5924 Mar 25 22:26	0°Υ		desc. node	5925 Feb 15 11:48	11°≈22'52	
max. Earth dist.	5924 Mar 27 01:57	1°Υ53'00	1.42058 AU	morning set	5925 Feb 27 06:47	29°≈15'09	
					5925 Feb 27 18:24	0°✠	
superior conj	5924 Apr 03 13:17	14°Υ30'25	-2°04'33	max. Earth dist.	5925 Mar 09 10:10	15°✠11'26	1.43790 AU
minimum elong	5924 Apr 03 16:57	14°Υ46'21	2°04'23				
	5924 Apr 12 06:31	0°Ω		superior conj	5925 Mar 15 06:56	24°✠42'40	-2°09'26
evening rise	5924 Apr 14 16:13	4°Ω22'25		minimum elong	5925 Mar 15 05:39	24°✠37'24	2°09'25
asc. node	5924 Apr 21 15:56	16°Ω53'38			5925 Mar 18 11:28	0°Υ	
	5924 Apr 30 18:02	0°Π		evening rise	5925 Mar 28 01:38	16°Υ22'10	
evening max el	5924 May 01 02:38	0°Π21'37	18°08'58		5925 Apr 05 00:11	0°Ω	
retrograde	5924 May 07 21:39	3°Π48'13		asc. node	5925 Apr 08 12:58	5°Ω39'41	
evening set	5924 May 10 10:32	3°Π19'51		evening max el	5925 Apr 14 15:20	13°Ω33'31	18°08'16
	5924 May 15 13:11	30°RΩ		retrograde	5925 Apr 21 01:47	16°Ω55'30	
inferior conj	5924 May 17 05:55	28°Ω28'11	2°38'40	evening set	5925 Apr 23 21:16	16°Ω15'37	
minimum elong	5924 May 17 09:08	28°Ω20'42	2°37'53	inferior conj	5925 Apr 30 02:51	11°Ω04'29	3°15'04
min. Earth dist.	5924 May 20 13:17	25°Ω26'00	0.60301 AU	minimum elong	5925 Apr 30 04:52	10°Ω59'11	3°14'47
morning rise	5924 May 24 05:16	22°Ω38'10		min. Earth dist.	5925 May 02 23:20	8°Ω04'59	0.62484 AU
desc. node	5924 May 27 14:00	21°Ω03'22		morning rise	5925 May 06 10:55	4°Ω59'18	
direct	5924 May 30 18:31	20°Ω34'06		direct	5925 May 13 06:35	2°Ω27'49	
morning max el	5924 Jun 14 02:23	28°Ω29'04	27°42'55	desc. node	5925 May 14 11:03	2°Ω32'05	
	5924 Jun 15 13:56	0°Π		morning max el	5925 May 27 08:31	10°Ω29'18	27°52'35
	5924 Jun 16 11:31	0°Ω			5925 Jun 11 14:39	0°Π	
morning set	5924 Jul 16 06:41	18°Ω53'11			5925 Jun 28 18:34	0°Ω	
asc. node	5924 Jul 18 15:13	23°Ω50'45		morning set	5925 Jun 30 07:13	3°Ω03'47	
	5924 Jul 21 11:30	0°Ω		asc. node	5925 Jul 05 12:15	13°Ω56'43	
max. Earth dist.	5924 Jul 22 11:51	2°Ω13'28	1.31927 AU	max. Earth dist.	5925 Jul 05 18:46	14°Ω31'44	1.32385 AU

superior conj	5925 Jul 07 21:05	19°  03'49	0°24'21	max. Earth dist.	5926 Jun 18 17:53	26°  24'08	1.33304 AU
minimum elong	5925 Jul 07 19:58	18°  57'44	0°24'05		5926 Jun 20 11:16	0° 	
	5925 Jul 12 21:26	0° 					
evening rise	5925 Jul 14 18:35	4°  02'50		superior conj	5926 Jun 22 02:01	3°  24'55	-0°03'09
	5925 Jul 28 15:14	0° 		minimum elong	5926 Jun 22 02:10	3°  25'45	0°03'09
evening max el	5925 Aug 08 03:28	13°  16'55	24°00'40	behind sun begin	5926 Jun 21 20:48	2°  57'11	
desc. node	5925 Aug 10 10:16	15°  19'28		behind sun end	5926 Jun 22 07:33	3°  54'21	
retrograde	5925 Aug 21 21:18	20°  11'25		asc. node	5926 Jun 22 09:17	4°  03'37	
evening set	5925 Aug 26 12:14	19°  24'14		evening rise	5926 Jun 29 05:56	18°  44'03	
min. Earth dist.	5925 Sep 01 13:59	16°  25'50	0.56211 AU		5926 Jul 04 18:54	0° 	
inferior conj	5925 Sep 03 22:52	14°  58'34	-5°19'31	evening max el	5926 Jul 20 17:08	23°  36'48	22°22'51
minimum elong	5925 Sep 03 20:32	15°  02'10	5°19'23	desc. node	5926 Jul 28 07:18	28°  56'44	
morning rise	5925 Sep 12 07:16	11°  00'47			5926 Aug 01 07:28	0° 	
direct	5925 Sep 15 01:14	10°  41'19		retrograde	5926 Aug 02 17:05	0°  04'30	
morning max el	5925 Sep 25 01:16	15°  21'33	19°52'33		5926 Aug 04 03:02	30°  R 	
asc. node	5925 Oct 01 11:33	23°  11'44		evening set	5926 Aug 05 19:56	29°  43'04	
	5925 Oct 05 15:31	0° 		min. Earth dist.	5926 Aug 13 23:49	26°  10'07	0.55057 AU
morning set	5925 Oct 12 22:29	14°  01'46		inferior conj	5926 Aug 14 23:26	25°  36'44	-4°36'21
				minimum elong	5926 Aug 14 15:15	25°  48'19	4°34'40
superior conj	5925 Oct 20 17:26	29°  04'19	1°38'12	morning rise	5926 Aug 23 12:23	21°  47'16	
minimum elong	5925 Oct 20 19:09	29°  05'52	1°38'06	direct	5926 Aug 26 16:31	21°  02'29	
	5925 Oct 20 19:35	0° 		morning max el	5926 Sep 07 06:41	26°  49'24	21°15'40
max. Earth dist.	5925 Oct 26 13:15	11°  06'37	1.37176 AU		5926 Sep 10 07:40	0° 	
evening rise	5925 Oct 30 07:51	18°  02'49		asc. node	5926 Sep 18 08:35	11°  35'38	
desc. node	5925 Nov 06 09:31	0°  X  13'48		morning set	5926 Sep 27 06:57	28°  46'34	
	5925 Nov 06 06:11	0°  X 			5926 Sep 27 21:04	0° 	
	5925 Nov 26 19:37	0° 					
evening max el	5925 Dec 05 00:21	9°  13'24	25°33'29	superior conj	5926 Oct 04 14:39	14°  06'11	1°42'54
retrograde	5925 Dec 17 06:07	16°  15'14		minimum elong	5926 Oct 04 14:53	14°  07'22	1°42'54
evening set	5925 Dec 23 04:30	13°  34'50		max. Earth dist.	5926 Oct 08 23:31	22°  05'20	1.35313 AU
min. Earth dist.	5925 Dec 27 13:31	9°  00'33	0.67226 AU		5926 Oct 12 13:57	0° 	
asc. node	5925 Dec 28 10:47	7°  52'32		evening rise	5926 Oct 13 03:48	1°  05'38	
inferior conj	5925 Dec 28 20:02	7°  22'52	0°07'49	desc. node	5926 Oct 24 06:32	20°  35'36	
minimum elong	5925 Dec 28 19:49	7°  23'31	0°07'46		5926 Oct 30 07:35	0°  X 	
transit middle	5925 Dec 28 19:49	7°  23'31	0°07'46	evening max el	5926 Nov 17 13:19	22°  X  55'54	26°34'15
transit begin	5925 Dec 28 17:22	7°  31'24			5926 Nov 28 17:23	0° 	
transit end	5925 Dec 28 22:17	7°  15'38		retrograde	5926 Nov 30 12:07	0°  310'30	
morning rise	5926 Jan 03 11:32	1°  38'51			5926 Dec 02 05:25	30°  R  X 	
direct	5926 Jan 06 20:00	0°  324'09		evening set	5926 Dec 06 23:12	27°  X  34'18	
morning max el	5926 Jan 13 20:11	4°  317'25	19°12'04	min. Earth dist.	5926 Dec 11 01:42	23°  X  22'02	0.66217 AU
greatest brilliancy	5926 Jan 27 09:22	22°  330'04	-0.7m	inferior conj	5926 Dec 12 19:35	21°  X  16'45	-0°51'12
	5926 Feb 01 07:07	0° 		minimum elong	5926 Dec 12 21:00	21°  X  12'29	0°50'33
desc. node	5926 Feb 02 08:49	1°  39'05		asc. node	5926 Dec 15 07:50	18°  X  24'38	
morning set	5926 Feb 06 07:47	7°  46'27		morning rise	5926 Dec 18 19:33	15°  X  33'04	
max. Earth dist.	5926 Feb 20 00:37	29°  09'35	1.44939 AU	direct	5926 Dec 21 18:02	14°  X  44'43	
	5926 Feb 20 13:24	0°  X 		morning max el	5926 Dec 28 08:03	18°  X  18'57	18°27'21
					5927 Jan 06 05:14	0° 	
superior conj	5926 Feb 23 00:22	3°  X  53'07	-1°55'40	morning set	5927 Jan 17 08:43	17°  33'43	
minimum elong	5926 Feb 22 16:44	3°  X  22'52	1°55'09	desc. node	5927 Jan 20 05:49	22°  308'57	
evening rise	5926 Mar 09 13:28	27°  X  25'21			5927 Jan 25 04:40	0° 	
	5926 Mar 11 02:56	0° 					
asc. node	5926 Mar 26 10:01	23°  Y  49'26		superior conj	5927 Feb 02 04:11	12°  X  33'00	-1°22'37
evening max el	5926 Mar 29 03:54	26°  Y  58'12	18°26'15	minimum elong	5927 Feb 01 18:59	11°  X  56'59	1°21'34
	5926 Apr 02 07:52	0°  X 		max. Earth dist.	5927 Feb 02 19:11	13°  X  31'48	1.45382 AU
retrograde	5926 Apr 04 15:15	0°  X  28'54			5927 Feb 13 07:12	0°  X 	
	5926 Apr 06 21:59	30°  R  Y 		evening rise	5927 Feb 18 01:56	7°  X  32'20	
evening set	5926 Apr 07 17:17	29°  Y  36'17		greatest brilliancy	5927 Feb 27 19:17	22°  X  51'42	-0.8m
inferior conj	5926 Apr 13 13:00	24°  Y  07'07	3°29'35		5927 Mar 04 11:42	0°  Y 	
minimum elong	5926 Apr 13 13:27	24°  Y  05'47	3°29'34	evening max el	5927 Mar 12 13:51	10°  Y  29'38	19°01'53
min. Earth dist.	5926 Apr 15 18:38	21°  Y  30'35	0.64432 AU	asc. node	5927 Mar 13 07:03	11°  Y  11'47	
morning rise	5926 Apr 19 08:49	17°  Y  54'38		retrograde	5927 Mar 19 10:22	14°  Y  21'00	
direct	5926 Apr 26 02:58	15°  Y  07'49		evening set	5927 Mar 22 19:27	13°  Y  14'46	
desc. node	5926 May 01 08:06	16°  Y  31'05		inferior conj	5927 Mar 28 08:40	7°  Y  29'00	3°27'21
morning max el	5926 May 09 17:52	23°  Y  05'07	27°26'02	minimum elong	5927 Mar 28 07:46	7°  Y  31'52	3°27'17
	5926 May 15 20:58	0°  X 		min. Earth dist.	5927 Mar 29 22:42	5°  Y  28'34	0.66009 AU
	5926 Jun 04 21:39	0°  II 		morning rise	5927 Apr 02 19:41	1°  Y  13'54	
morning set	5926 Jun 13 23:32	16°  II  47'19			5927 Apr 04 09:42	30°  R  X 	

direct	5927 Apr 09 06:01	28° $\Upsilon$ 25'18		morning rise	5928 Mar 16 16:23	14° $\Upsilon$ 50'09	
	5927 Apr 14 14:36	0° $\Upsilon$		direct	5928 Mar 22 14:47	12° $\Upsilon$ 11'08	
desc. node	5927 Apr 18 05:07	2° $\Upsilon$ 28'21		morning max el	5928 Apr 03 13:06	19° $\Upsilon$ 19'05	25°12'23
morning max el	5927 Apr 22 03:50	6° $\Upsilon$ 05'00	26°29'36	desc. node	5928 Apr 04 02:07	19° $\Upsilon$ 52'26	
	5927 May 10 13:32	0° $\Upsilon$			5928 Apr 12 14:57	0° $\Upsilon$	
morning set	5927 May 28 04:08	29° $\Upsilon$ 53'06			5928 May 02 16:04	0° $\Upsilon$	
	5927 May 28 05:36	0° $\Pi$		morning set	5928 May 09 16:37	12° $\Upsilon$ 09'27	
max. Earth dist.	5927 Jun 01 06:21	7° $\Pi$ 46'35	1.34705 AU	max. Earth dist.	5928 May 13 08:24	18° $\Upsilon$ 51'16	1.36543 AU
					5928 May 19 03:43	0° $\Pi$	
superior conj	5927 Jun 06 00:24	17° $\Pi$ 22'02	-0°32'48				
minimum elong	5927 Jun 06 02:13	17° $\Pi$ 31'21	0°32'28	superior conj	5928 May 19 13:28	0° $\Pi$ 48'06	-1°03'08
asc. node	5927 Jun 09 06:17	24° $\Pi$ 06'43		minimum elong	5928 May 19 17:04	1° $\Pi$ 05'52	1°02'32
	5927 Jun 12 01:45	0° $\Theta$		asc. node	5928 May 26 03:19	14° $\Pi$ 02'36	
evening rise	5927 Jun 13 14:59	3° $\Theta$ 13'50		evening rise	5928 May 27 19:31	17° $\Pi$ 26'09	
	5927 Jun 28 20:52	0° $\Omega$			5928 Jun 03 06:44	0° $\Theta$	
evening max el	5927 Jul 02 15:20	4° $\Omega$ 16'08	20°53'25	evening max el	5928 Jun 14 02:03	15° $\Theta$ 35'25	19°41'15
retrograde	5927 Jul 14 05:18	9° $\Omega$ 58'22		retrograde	5928 Jun 23 22:46	20° $\Theta$ 25'31	
desc. node	5927 Jul 15 04:20	9° $\Omega$ 56'08		evening set	5928 Jun 25 20:20	20° $\Theta$ 15'33	
evening set	5927 Jul 16 08:54	9° $\Omega$ 47'21		desc. node	5928 Jul 01 01:21	18° $\Theta$ 20'18	
inferior conj	5927 Jul 25 16:15	5° $\Omega$ 50'16	-3°03'14	inferior conj	5928 Jul 04 16:08	16° $\Theta$ 12'22	-1°05'19
minimum elong	5927 Jul 25 08:09	6° $\Omega$ 01'45	3°00'36	minimum elong	5928 Jul 04 13:09	16° $\Theta$ 17'02	1°04'12
min. Earth dist.	5927 Jul 26 10:05	5° $\Omega$ 25'01	0.54784 AU	min. Earth dist.	5928 Jul 06 22:35	14° $\Theta$ 47'34	0.55474 AU
morning rise	5927 Aug 03 07:24	1° $\Omega$ 50'39		morning rise	5928 Jul 13 03:44	11° $\Theta$ 43'27	
direct	5927 Aug 07 01:23	1° $\Omega$ 20'29		direct	5928 Jul 17 16:32	10° $\Theta$ 57'55	
morning max el	5927 Aug 20 01:17	7° $\Omega$ 33'33	22°55'09	morning max el	5928 Jul 31 14:49	17° $\Theta$ 54'08	24°39'36
	5927 Sep 04 22:15	0° $\P$			5928 Aug 10 14:13	0° $\Omega$	
asc. node	5927 Sep 05 05:36	0° $\P$ 34'17		asc. node	5928 Aug 22 02:37	19° $\Omega$ 58'58	
morning set	5927 Sep 11 17:55	13° $\P$ 37'18		morning set	5928 Aug 26 05:39	28° $\Omega$ 29'01	
					5928 Aug 26 22:44	0° $\P$	
superior conj	5927 Sep 18 18:57	28° $\P$ 42'39	1°40'40				
minimum elong	5927 Sep 18 17:57	28° $\P$ 37'16	1°40'37	superior conj	5928 Sep 02 03:47	13° $\P$ 30'55	1°32'28
	5927 Sep 19 09:27	0° $\Omega$		minimum elong	5928 Sep 02 01:55	13° $\P$ 20'47	1°32'18
max. Earth dist.	5927 Sep 21 18:14	4° $\Omega$ 59'38	1.33807 AU	max. Earth dist.	5928 Sep 03 21:10	17° $\P$ 15'55	1.32720 AU
evening rise	5927 Sep 26 13:44	14° $\Omega$ 46'46		evening rise	5928 Sep 09 09:59	28° $\P$ 56'20	
	5927 Oct 04 18:02	0° $\P$			5928 Sep 09 22:30	0° $\Omega$	
desc. node	5927 Oct 11 03:33	10° $\P$ 38'00			5928 Sep 26 21:14	0° $\P$	
	5927 Oct 25 02:08	0° $\Upsilon$		desc. node	5928 Sep 27 00:35	0° $\P$ 12'35	
evening max el	5927 Oct 31 02:06	6° $\Upsilon$ 26'49	27°14'32	evening max el	5928 Oct 12 12:51	19° $\P$ 32'57	27°27'36
retrograde	5927 Nov 13 12:07	13° $\Upsilon$ 44'53		retrograde	5928 Oct 26 05:40	26° $\P$ 49'16	
evening set	5927 Nov 20 09:45	11° $\Upsilon$ 06'00		evening set	5928 Nov 02 09:15	24° $\P$ 16'43	
min. Earth dist.	5927 Nov 24 06:18	7° $\Upsilon$ 28'33	0.64858 AU	min. Earth dist.	5928 Nov 06 01:20	21° $\P$ 10'44	0.63168 AU
inferior conj	5927 Nov 26 12:03	5° $\Upsilon$ 01'21	-1°54'25	inferior conj	5928 Nov 08 18:43	18° $\P$ 29'51	-2°59'26
minimum elong	5927 Nov 26 15:25	4° $\Upsilon$ 52'07	1°53'02	minimum elong	5928 Nov 09 00:01	18° $\P$ 16'47	2°57'32
asc. node	5927 Dec 02 04:52	29° $\P$ 53'19		morning rise	5928 Nov 15 16:28	13° $\P$ 16'27	
	5927 Dec 02 00:17	30° $\P$		direct	5928 Nov 18 01:47	12° $\P$ 49'30	
morning rise	5927 Dec 02 22:16	29° $\P$ 31'07		asc. node	5928 Nov 18 01:55	12° $\P$ 49'30	
direct	5927 Dec 05 12:57	28° $\P$ 55'17		morning max el	5928 Nov 24 16:58	16° $\P$ 14'48	17°49'07
	5927 Dec 09 01:57	0° $\Upsilon$			5928 Dec 04 10:15	0° $\Upsilon$	
morning max el	5927 Dec 11 23:58	2° $\Upsilon$ 20'34	17°59'30	morning set	5928 Dec 10 23:02	11° $\Upsilon$ 18'01	
morning set	5927 Dec 29 15:21	28° $\Upsilon$ 49'45			5928 Dec 21 20:29	0° $\Theta$	
	5927 Dec 30 08:13	0° $\Theta$					
desc. node	5928 Jan 07 02:49	12° $\Theta$ 48'17		superior conj	5928 Dec 22 22:09	1° $\Theta$ 46'49	0°07'37
				minimum elong	5928 Dec 22 22:56	1° $\Theta$ 50'05	0°07'32
superior conj	5928 Jan 12 14:06	21° $\Theta$ 36'41	-0°37'46	behind sun begin	5928 Dec 22 14:35	1° $\Theta$ 15'24	
minimum elong	5928 Jan 12 09:33	21° $\Theta$ 18'28	0°37'07	behind sun end	5928 Dec 23 07:17	2° $\Theta$ 24'43	
max. Earth dist.	5928 Jan 16 15:01	28° $\Theta$ 00'45	1.45075 AU	desc. node	5928 Dec 23 23:49	3° $\Theta$ 33'01	
	5928 Jan 17 21:20	0° $\approx$		max. Earth dist.	5928 Dec 29 08:37	12° $\Theta$ 16'27	1.44063 AU
evening rise	5928 Jan 28 19:24	16° $\approx$ 58'18		evening rise	5929 Jan 07 05:48	26° $\Theta$ 13'45	
	5928 Feb 06 07:36	0° $\Upsilon$			5929 Jan 09 16:45	0° $\approx$	
greatest brilliancy	5928 Feb 11 22:58	8° $\Upsilon$ 27'40	-0.6m		5929 Jan 30 08:41	0° $\Upsilon$	
evening max el	5928 Feb 23 19:17	24° $\Upsilon$ 03'58	19°53'39	evening max el	5929 Feb 05 19:12	7° $\Upsilon$ 38'53	20°59'03
asc. node	5928 Feb 28 04:06	27° $\Upsilon$ 33'28		retrograde	5929 Feb 14 06:33	12° $\Upsilon$ 39'18	
retrograde	5928 Mar 02 08:14	28° $\Upsilon$ 26'14		asc. node	5929 Feb 14 01:09	12° $\Upsilon$ 39'02	
evening set	5928 Mar 06 01:21	27° $\Upsilon$ 05'42		evening set	5929 Feb 18 08:58	11° $\Upsilon$ 03'56	
inferior conj	5928 Mar 11 10:48	21° $\Upsilon$ 05'19	3°12'06	inferior conj	5929 Feb 23 16:56	4° $\Upsilon$ 51'32	2°46'18
minimum elong	5928 Mar 11 08:58	21° $\Upsilon$ 11'28	3°11'48	minimum elong	5929 Feb 23 14:38	4° $\Upsilon$ 59'30	2°45'44
min. Earth dist.	5928 Mar 12 10:12	19° $\Upsilon$ 47'01	0.67154 AU	min. Earth dist.	5929 Feb 24 03:06	4° $\Upsilon$ 16'25	0.67869 AU



	5929 Feb 27 11:25	30° 		inferior conj	5930 Feb 08 00:58	18°  45'07	2°11'34
morning rise	5929 Feb 28 20:06	28°  37'59		minimum elong	5930 Feb 07 22:39	18°  53'10	2°10'51
direct	5929 Mar 06 04:32	26°  16'19		min. Earth dist.	5930 Feb 07 23:10	18°  51'22	0.68178 AU
	5929 Mar 14 01:05	0° 		morning rise	5930 Feb 13 04:29	12°  34'40	
morning max el	5929 Mar 16 22:00	2°  40'04	23°44'27	direct	5930 Feb 17 22:27	10°  34'33	
desc. node	5929 Mar 21 23:08	8°  18'21		morning max el	5930 Feb 27 09:09	16°  07'49	22°15'38
	5929 Apr 06 17:26	0° 		desc. node	5930 Mar 08 20:10	27°  29'00	
morning set	5929 Apr 21 07:16	23°  20'47			5930 Mar 10 16:45	0° 	
max. Earth dist.	5929 Apr 25 04:12	0°  03'57	1.38676 AU		5930 Mar 30 18:34	0° 	
	5929 Apr 25 03:18	0° 		morning set	5930 Apr 01 18:39	3°  13'44	
				max. Earth dist.	5930 Apr 07 01:04	11°  56'10	1.40877 AU
superior conj	5929 May 02 13:31	13°  33'18	-1°31'48	superior conj	5930 Apr 14 20:05	25°  27'14	-1°55'16
minimum elong	5929 May 02 18:30	13°  56'46	1°31'09	minimum elong	5930 Apr 15 01:01	25°  49'16	1°54'53
	5929 May 11 01:52	0° 			5930 Apr 17 08:38	0° 	
evening rise	5929 May 11 16:49	1°  12'59		evening rise	5930 Apr 25 03:29	14°  25'38	
asc. node	5929 May 13 00:21	3°  46'24		asc. node	5930 Apr 29 21:24	23°  12'58	
evening max el	5929 May 28 00:28	27°  37'14	18°49'29		5930 May 03 18:42	0° 	
	5929 May 30 22:52	0° 		evening max el	5930 May 11 07:19	10°  14'14	18°18'06
retrograde	5929 Jun 05 08:04	1°  42'42		retrograde	5930 May 18 12:12	13°  50'04	
evening set	5929 Jun 07 09:44	1°  28'28		evening set	5930 May 20 21:03	13°  27'37	
	5929 Jun 11 02:35	30° 		inferior conj	5930 May 28 02:15	8°  48'09	2°05'28
inferior conj	5929 Jun 15 10:22	27°  09'05	0°43'50	minimum elong	5930 May 28 05:36	8°  41'00	2°04'29
minimum elong	5929 Jun 15 12:01	27°  06'04	0°43'13	min. Earth dist.	5930 May 31 12:32	5°  54'59	0.59029 AU
desc. node	5929 Jun 17 22:22	25°  20'15		morning rise	5930 Jun 04 11:07	3°  11'24	
min. Earth dist.	5929 Jun 18 14:55	24°  51'11	0.56985 AU	desc. node	5930 Jun 04 19:25	3°  00'11	
morning rise	5929 Jun 23 10:55	22°  03'20		direct	5930 Jun 10 16:59	1°  25'54	
direct	5929 Jun 28 21:40	20°  51'21		morning max el	5930 Jun 25 02:15	9°  14'14	27°20'04
morning max el	5929 Jul 13 05:50	28°  19'50	26°12'58		5930 Jul 10 23:17	0° 	
	5929 Jul 14 21:36	0° 		morning set	5930 Jul 26 00:56	27°  55'05	
	5929 Aug 04 02:11	0° 		asc. node	5930 Jul 26 20:40	29°  39'04	
asc. node	5929 Aug 08 23:39	9°  42'44			5930 Jul 27 00:37	0° 	
morning set	5929 Aug 10 16:34	13°  16'57		max. Earth dist.	5930 Aug 01 16:45	12°  20'52	1.31852 AU
superior conj	5929 Aug 17 15:03	28°  24'36	1°19'03	superior conj	5930 Aug 02 02:51	13°  16'41	1°01'00
minimum elong	5929 Aug 17 12:47	28°  12'08	1°18'44	minimum elong	5930 Aug 02 00:40	13°  04'34	1°00'36
max. Earth dist.	5929 Aug 18 05:48	29°  46'01	1.32068 AU	evening rise	5930 Aug 08 21:56	28°  07'28	
	5929 Aug 18 08:20	0° 			5930 Aug 09 19:15	0° 	
evening rise	5929 Aug 24 13:35	13°  26'01			5930 Aug 26 12:07	0° 	
	5929 Sep 02 00:20	0° 		desc. node	5930 Aug 31 18:39	7°  08'08	
desc. node	5929 Sep 13 21:36	19°  08'10		evening max el	5930 Sep 06 19:00	13°  44'08	26°16'05
	5929 Sep 22 18:06	0° 		retrograde	5930 Sep 20 17:56	20°  51'25	
evening max el	5929 Sep 24 19:16	2°  02'11	27°08'34	evening set	5930 Sep 27 06:56	19°  07'00	
retrograde	5929 Oct 08 16:11	9°  14'27		min. Earth dist.	5930 Oct 01 08:15	16°  32'16	0.59139 AU
evening set	5929 Oct 15 17:56	6°  59'56		inferior conj	5930 Oct 04 13:41	14°  05'33	-4°53'21
min. Earth dist.	5929 Oct 19 09:51	4°  16'53	0.61213 AU	minimum elong	5930 Oct 04 19:23	13°  54'42	4°52'22
inferior conj	5929 Oct 22 12:27	1°  34'42	-4°01'44	morning rise	5930 Oct 12 10:04	9°  34'22	
minimum elong	5929 Oct 22 18:58	1°  20'30	3°59'55	direct	5930 Oct 14 18:15	9°  15'31	
	5929 Oct 24 08:59	30° 		morning max el	5930 Oct 22 17:06	13°  07'07	18°24'56
morning rise	5929 Oct 29 22:03	26°  41'15		asc. node	5930 Oct 22 19:59	13°  14'05	
direct	5929 Nov 01 04:58	26°  19'50			5930 Nov 03 03:02	0° 	
asc. node	5929 Nov 04 22:56	27°  19'49		morning set	5930 Nov 07 16:34	8°  36'31	
	5929 Nov 08 10:22	0° 		superior conj	5930 Nov 16 17:49	25°  46'11	1°13'47
morning max el	5929 Nov 08 07:51	29°  53'49	17°57'07	minimum elong	5930 Nov 16 21:29	26°  03'06	1°13'23
morning set	5929 Nov 24 01:18	24°  39'12			5930 Nov 19 01:24	0° 	
	5929 Nov 26 23:18	0° 		max. Earth dist.	5930 Nov 24 05:29	9°  07'38	1.40494 AU
superior conj	5929 Dec 04 08:33	13°  13'47	0°45'42	desc. node	5930 Nov 27 17:53	15°  05'19	
minimum elong	5929 Dec 04 12:01	13°  28'55	0°45'15	evening rise	5930 Nov 28 15:44	16°  36'00	
desc. node	5929 Dec 10 20:51	24°  20'05			5930 Dec 07 01:22	0° 	
max. Earth dist.	5929 Dec 11 21:31	26°  20'16	1.42472 AU		5930 Dec 28 16:41	0° 	
	5929 Dec 14 07:37	0° 		evening max el	5931 Jan 02 04:56	4°  56'18	23°34'09
evening rise	5929 Dec 18 00:56	5°  57'48		retrograde	5931 Jan 12 21:20	11°  14'45	
	5930 Jan 02 23:36	0° 		evening set	5931 Jan 17 22:52	9°  08'52	
evening max el	5930 Jan 19 13:56	21°  15'52	22°14'15	asc. node	5931 Jan 18 19:13	8°  22'24	
retrograde	5930 Jan 29 03:24	26°  56'51		inferior conj	5931 Jan 23 09:01	2°  42'53	1°28'59
asc. node	5930 Jan 31 22:11	26°  16'20		minimum elong	5931 Jan 23 07:09	2°  49'16	1°28'18
evening set	5930 Feb 02 16:40	25°  06'13					

min. Earth dist.	5931 Jan 22 19:58	3°≈27'31	0.68098 AU	inferior conj	5932 Jan 07 15:14	16°≈341'44	0°39'18
	5931 Jan 25 09:57	30°≈30		minimum elong	5932 Jan 07 14:17	16°≈344'51	0°38'57
morning rise	5931 Jan 28 15:22	26°≈337'20		morning rise	5932 Jan 13 02:46	10°≈343'00	
direct	5931 Feb 01 19:24	24°≈359'55		direct	5932 Jan 16 17:58	9°≈327'06	
morning max el	5931 Feb 10 02:09	29°≈345'53	20°54'09	morning max el	5932 Jan 24 03:04	13°≈335'47	19°45'05
	5931 Feb 10 07:46	0°≈			5932 Feb 05 16:45	0°≈	
desc. node	5931 Feb 23 17:12	17°≈111'56		greatest brilliancy	5932 Feb 06 02:40	0°≈336'29	-0.6m
	5931 Mar 04 09:23	0°≈		desc. node	5932 Feb 10 14:13	7°≈17'57	
morning set	5931 Mar 12 03:08	11°≈53'22		morning set	5932 Feb 18 23:35	20°≈06'36	
max. Earth dist.	5931 Mar 20 04:56	24°≈45'17	1.42858 AU		5932 Feb 25 08:28	0°≈	
	5931 Mar 23 09:40	0°≈		max. Earth dist.	5932 Mar 01 16:35	8°≈24'46	1.44362 AU
superior conj	5931 Mar 27 04:22	6°≈19'32	-2°08'36	superior conj	5932 Mar 06 11:13	16°≈303'57	-2°06'05
minimum elong	5931 Mar 27 06:22	6°≈27'58	2°08'35	minimum elong	5932 Mar 06 07:05	15°≈347'16	2°05'56
evening rise	5931 Apr 07 23:26	26°≈55'06			5932 Mar 14 22:39	0°≈	
	5931 Apr 09 16:52	0°≈		evening rise	5932 Mar 20 00:06	8°≈31'46	
asc. node	5931 Apr 16 18:27	12°≈16'23			5932 Apr 02 02:04	0°≈	
evening max el	5931 Apr 24 18:57	23°≈16'55	18°06'23	asc. node	5932 Apr 02 15:30	0°≈48'28	
retrograde	5931 May 01 08:52	26°≈39'22		evening max el	5932 Apr 07 07:57	6°≈35'27	18°13'38
evening set	5931 May 04 00:43	26°≈06'11		retrograde	5932 Apr 13 17:33	9°≈59'28	
inferior conj	5931 May 10 13:44	21°≈06'12	2°57'07	evening set	5932 Apr 16 15:53	9°≈14'07	
minimum elong	5931 May 10 16:33	20°≈59'19	2°56'33	inferior conj	5932 Apr 22 16:47	3°≈54'52	3°23'33
min. Earth dist.	5931 May 13 17:19	18°≈02'22	0.61251 AU	minimum elong	5932 Apr 22 18:08	3°≈51'08	3°23'25
morning rise	5931 May 17 06:20	15°≈08'55		min. Earth dist.	5932 Apr 25 07:04	1°≈03'27	0.63355 AU
desc. node	5931 May 22 16:27	12°≈56'52			5932 Apr 26 07:35	30°≈	
direct	5931 May 23 23:36	12°≈51'52		morning rise	5932 Apr 28 19:15	27°≈45'59	
morning max el	5931 Jun 07 05:05	20°≈50'10	27°51'38	direct	5932 May 05 15:07	25°≈06'42	
	5931 Jun 15 02:59	0°≈		desc. node	5932 May 08 13:30	25°≈32'57	
	5931 Jul 03 22:53	0°≈			5932 May 16 03:51	0°≈	
morning set	5931 Jul 10 04:57	12°≈17'54		morning max el	5932 May 19 12:53	3°≈06'53	27°45'27
asc. node	5931 Jul 13 17:43	19°≈43'10			5932 Jun 08 13:24	0°≈	
max. Earth dist.	5931 Jul 16 02:20	24°≈49'23	1.32070 AU	morning set	5932 Jun 23 02:19	26°≈11'57	
					5932 Jun 24 22:12	0°≈	
superior conj	5931 Jul 17 13:29	28°≈01'38	0°38'48	max. Earth dist.	5932 Jun 28 06:34	6°≈58'44	1.32728 AU
minimum elong	5931 Jul 17 11:50	27°≈52'35	0°38'27	asc. node	5932 Jun 29 14:44	9°≈50'03	
	5931 Jul 18 11:01	0°≈					
evening rise	5931 Jul 24 09:00	12°≈54'10		superior conj	5932 Jun 30 21:02	12°≈32'50	0°13'03
	5931 Aug 01 22:55	0°≈		minimum elong	5932 Jun 30 20:24	12°≈29'27	0°12'52
desc. node	5931 Aug 18 15:40	23°≈50'14		behind sun begin	5932 Jun 30 17:15	12°≈12'26	
evening max el	5931 Aug 19 11:13	24°≈38'10	24°55'12	behind sun end	5932 Jun 30 23:33	12°≈46'28	
	5931 Aug 26 18:53	0°≈		evening rise	5932 Jul 07 20:47	27°≈39'03	
retrograde	5931 Sep 02 08:39	1°≈38'45			5932 Jul 08 23:28	0°≈	
evening set	5931 Sep 07 19:51	0°≈31'16			5932 Jul 26 11:09	0°≈	
	5931 Sep 09 00:27	30°≈		evening max el	5932 Jul 30 23:19	5°≈00'17	23°18'43
min. Earth dist.	5931 Sep 12 22:37	27°≈46'40	0.57180 AU	desc. node	5932 Aug 04 12:41	8°≈44'39	
inferior conj	5931 Sep 15 19:24	25°≈53'31	-5°21'05	retrograde	5932 Aug 13 11:04	11°≈45'38	
minimum elong	5931 Sep 15 20:52	25°≈51'04	5°21'01	evening set	5932 Aug 17 10:26	11°≈11'05	
morning rise	5931 Sep 24 00:10	21°≈44'45		min. Earth dist.	5932 Aug 24 08:36	7°≈59'46	0.55632 AU
direct	5931 Sep 26 13:47	21°≈25'55		inferior conj	5932 Aug 26 05:10	6°≈54'26	-5°07'47
morning max el	5931 Oct 05 17:16	25°≈45'01	19°14'11	minimum elong	5932 Aug 25 23:55	7°≈02'09	5°07'10
	5931 Oct 09 11:37	0°≈		morning rise	5932 Sep 03 15:45	3°≈02'25	
asc. node	5931 Oct 09 17:01	0°≈17'45		direct	5932 Sep 06 13:56	2°≈41'47	
morning set	5931 Oct 22 16:45	22°≈58'37		morning max el	5932 Sep 17 05:45	7°≈39'25	20°25'33
	5931 Oct 26 05:11	0°≈		asc. node	5932 Sep 25 14:02	18°≈16'04	
					5932 Oct 02 03:41	0°≈	
superior conj	5931 Oct 30 20:41	9°≈09'37	1°31'53	morning set	5932 Oct 05 22:52	7°≈37'16	
minimum elong	5931 Oct 30 23:16	9°≈22'05	1°31'41				
max. Earth dist.	5931 Nov 06 10:47	21°≈32'51	1.38370 AU	superior conj	5932 Oct 13 12:22	23°≈10'39	1°41'06
evening rise	5931 Nov 10 05:12	28°≈15'15		minimum elong	5932 Oct 13 13:26	23°≈16'05	1°41'05
	5931 Nov 11 05:22	0°≈			5932 Oct 16 22:20	0°≈	
desc. node	5931 Nov 14 14:54	5°≈45'03		max. Earth dist.	5932 Oct 18 17:47	3°≈31'13	1.36344 AU
	5931 Nov 30 11:59	0°≈		evening rise	5932 Oct 22 15:07	10°≈50'18	
evening max el	5931 Dec 15 18:03	18°≈40'08	24°52'14	desc. node	5932 Oct 31 11:55	26°≈15'04	
retrograde	5931 Dec 27 11:09	25°≈28'30			5932 Nov 02 19:30	0°≈	
evening set	5932 Jan 02 01:59	23°≈08'13			5932 Nov 24 22:01	0°≈	
asc. node	5932 Jan 05 16:16	19°≈14'56		evening max el	5932 Nov 27 06:45	2°≈24'41	26°01'23
min. Earth dist.	5932 Jan 06 15:08	18°≈01'10	0.67649 AU	retrograde	5932 Dec 09 20:12	9°≈33'02	
































































































































evening set	5932 Dec 16 00:19	7° $\text{Z}$ 01'02		retrograde	5933 Nov 22 23:50	23° $\text{Z}$ 20'46	
min. Earth dist.	5932 Dec 20 06:24	2° $\text{Z}$ 28'55	0.66839 AU	evening set	5933 Nov 29 15:51	20° $\text{Z}$ 42'10	
inferior conj	5932 Dec 21 17:47	0° $\text{Z}$ 38'43	-0°16'35	min. Earth dist.	5933 Dec 03 15:34	16° $\text{Z}$ 45'04	0.65676 AU
minimum elong	5932 Dec 21 18:13	0° $\text{Z}$ 37'22	0°16'22	inferior conj	5933 Dec 05 14:35	14° $\text{Z}$ 29'17	-1°17'37
	5932 Dec 22 06:15	30° $\text{R}$ 27		minimum elong	5933 Dec 05 16:48	14° $\text{Z}$ 22'52	1°16'39
asc. node	5932 Dec 22 13:18	29° $\text{Z}$ 38'18		asc. node	5933 Dec 09 10:20	10° $\text{Z}$ 28'49	
morning rise	5932 Dec 27 12:40	24° $\text{Z}$ 49'05		morning rise	5933 Dec 11 18:45	8° $\text{Z}$ 51'11	
direct	5932 Dec 30 16:40	23° $\text{Z}$ 51'49		direct	5933 Dec 14 13:32	8° $\text{Z}$ 08'48	
morning max el	5933 Jan 06 11:34	27° $\text{Z}$ 35'22	18°51'08	morning max el	5933 Dec 21 01:33	11° $\text{Z}$ 38'15	18°13'28
	5933 Jan 08 16:31	0° $\text{Z}$			5934 Jan 03 01:33	0° $\text{Z}$	
desc. node	5933 Jan 27 11:13	27° $\text{Z}$ 40'51		morning set	5934 Jan 08 22:38	9° $\text{Z}$ 31'38	
morning set	5933 Jan 28 09:02	29° $\text{Z}$ 06'14		desc. node	5934 Jan 14 08:11	18° $\text{Z}$ 35'10	
	5933 Jan 28 22:46	0° $\approx$			5934 Jan 21 17:08	0° $\approx$	
max. Earth dist.	5933 Feb 12 09:33	22° $\approx$ 37'08	1.45215 AU				
				superior conj	5934 Jan 24 00:40	3° $\approx$ 38'58	-1°04'22
superior conj	5933 Feb 13 20:49	24° $\approx$ 55'39	-1°43'45	minimum elong	5934 Jan 23 16:58	3° $\approx$ 08'38	1°03'23
minimum elong	5933 Feb 13 11:37	24° $\approx$ 19'31	1°42'56	max. Earth dist.	5934 Jan 26 04:33	7° $\approx$ 02'44	1.45335 AU
	5933 Feb 17 02:03	0° $\text{X}$		evening rise	5934 Feb 09 05:22	28° $\approx$ 57'25	
evening rise	5933 Mar 01 02:02	19° $\text{X}$ 11'07			5934 Feb 09 21:25	0° $\text{X}$	
	5933 Mar 07 18:28	0° $\text{Y}$		greatest brilliancy	5934 Feb 21 01:14	17° $\text{X}$ 16'34	-0.7m
asc. node	5933 Mar 20 12:32	18° $\text{Y}$ 39'48			5934 Mar 02 00:17	0° $\text{Y}$	
evening max el	5933 Mar 21 19:37	20° $\text{Y}$ 03'34	18°39'13	evening max el	5934 Mar 05 03:45	3° $\text{Y}$ 36'17	19°22'04
retrograde	5933 Mar 28 09:59	23° $\text{Y}$ 42'00		asc. node	5934 Mar 07 09:35	5° $\text{Y}$ 38'10	
evening set	5933 Mar 31 14:52	22° $\text{Y}$ 43'41		retrograde	5934 Mar 12 06:39	7° $\text{Y}$ 40'08	
inferior conj	5933 Apr 06 07:25	17° $\text{Y}$ 06'58	3°30'27	evening set	5934 Mar 15 18:53	6° $\text{Y}$ 28'06	
minimum elong	5933 Apr 06 07:16	17° $\text{Y}$ 07'28	3°30'25	inferior conj	5934 Mar 21 06:12	0° $\text{Y}$ 35'52	3°22'20
min. Earth dist.	5933 Apr 08 06:18	14° $\text{Y}$ 44'45	0.65151 AU	minimum elong	5934 Mar 21 04:51	0° $\text{Y}$ 40'16	3°22'10
morning rise	5933 Apr 11 23:03	10° $\text{Y}$ 52'43			5934 Mar 21 17:11	30° $\text{R}$ 27	
direct	5933 Apr 18 14:20	8° $\text{Y}$ 03'50		min. Earth dist.	5934 Mar 22 13:55	28° $\text{X}$ 52'40	0.66543 AU
desc. node	5933 Apr 25 10:31	10° $\text{Y}$ 26'33		morning rise	5934 Mar 26 14:29	24° $\text{X}$ 20'13	
morning max el	5933 May 01 23:04	15° $\text{Y}$ 55'38	27°05'13	direct	5934 Apr 01 20:03	21° $\text{X}$ 34'18	
	5933 May 13 13:12	0° $\text{B}$		desc. node	5934 Apr 12 07:32	27° $\text{X}$ 04'09	
	5933 Jun 01 08:23	0° $\text{II}$		morning max el	5934 Apr 14 08:56	29° $\text{X}$ 03'16	25°58'44
morning set	5933 Jun 06 14:08	9° $\text{II}$ 47'05			5934 Apr 15 06:54	0° $\text{Y}$	
max. Earth dist.	5933 Jun 11 01:38	18° $\text{II}$ 39'29	1.33848 AU		5934 May 07 08:49	0° $\text{B}$	
				morning set	5934 May 20 12:36	22° $\text{B}$ 34'36	
superior conj	5933 Jun 14 23:28	26° $\text{II}$ 44'31	-0°15'32		5934 May 24 10:59	0° $\text{II}$	
minimum elong	5933 Jun 15 00:18	26° $\text{II}$ 48'51	0°15'24	max. Earth dist.	5934 May 24 09:15	29° $\text{B}$ 51'38	1.35432 AU
behind sun begin	5933 Jun 14 22:44	26° $\text{II}$ 40'39					
behind sun end	5933 Jun 15 01:52	26° $\text{II}$ 57'03		superior conj	5934 May 29 18:20	10° $\text{II}$ 30'09	-0°45'42
asc. node	5933 Jun 16 11:46	29° $\text{II}$ 55'54		minimum elong	5934 May 29 20:55	10° $\text{II}$ 43'11	0°45'14
	5933 Jun 16 12:32	0° $\text{E}$		asc. node	5934 Jun 03 08:48	19° $\text{II}$ 57'00	
evening rise	5933 Jun 22 07:25	12° $\text{E}$ 16'19		evening rise	5934 Jun 06 14:52	26° $\text{II}$ 40'04	
	5933 Jul 01 09:57	0° $\text{O}$			5934 Jun 08 06:06	0° $\text{E}$	
evening max el	5933 Jul 12 15:35	15° $\text{O}$ 24'14	21°42'57	evening max el	5934 Jun 24 19:07	26° $\text{E}$ 20'44	20°20'24
desc. node	5933 Jul 22 09:44	21° $\text{O}$ 17'41			5934 Jun 29 13:04	0° $\text{O}$	
retrograde	5933 Jul 25 03:00	21° $\text{O}$ 35'10		retrograde	5934 Jul 05 16:02	1° $\text{O}$ 40'42	
evening set	5933 Jul 27 17:37	21° $\text{O}$ 19'47		evening set	5934 Jul 07 14:57	1° $\text{O}$ 31'06	
inferior conj	5933 Aug 06 00:45	17° $\text{O}$ 18'39	-4°02'00	desc. node	5934 Jul 09 06:46	1° $\text{O}$ 08'44	
minimum elong	5933 Aug 05 15:43	17° $\text{O}$ 31'17	3°59'36		5934 Jul 12 06:55	30° $\text{R}$ 27	
min. Earth dist.	5933 Aug 05 18:18	17° $\text{O}$ 27'40	0.54821 AU	inferior conj	5934 Jul 16 19:00	27° $\text{E}$ 33'27	-2°14'14
morning rise	5933 Aug 14 15:06	13° $\text{O}$ 27'36		minimum elong	5934 Jul 16 12:46	27° $\text{E}$ 42'33	2°12'00
direct	5933 Aug 18 00:20	13° $\text{O}$ 02'35		min. Earth dist.	5934 Jul 18 05:52	26° $\text{E}$ 42'26	0.54959 AU
morning max el	5933 Aug 30 06:14	18° $\text{O}$ 48'00	21°56'39	morning rise	5934 Jul 25 09:28	23° $\text{E}$ 22'47	
	5933 Sep 08 07:03	0° $\text{P}$		direct	5934 Jul 29 10:42	22° $\text{E}$ 47'16	
asc. node	5933 Sep 12 11:03	6° $\text{P}$ 56'02		morning max el	5934 Aug 11 22:03	29° $\text{E}$ 20'38	23°39'45
morning set	5933 Sep 20 08:37	22° $\text{P}$ 25'25			5934 Aug 12 14:28	0° $\text{O}$	
	5933 Sep 23 22:36	0° $\text{O}$		asc. node	5934 Aug 30 08:05	26° $\text{O}$ 07'22	
					5934 Sep 01 07:22	0° $\text{P}$	
superior conj	5933 Sep 27 12:58	7° $\text{O}$ 37'23	1°42'43	morning set	5934 Sep 04 20:08	7° $\text{P}$ 17'53	
minimum elong	5933 Sep 27 12:38	7° $\text{O}$ 35'37	1°42'44				
max. Earth dist.	5933 Oct 01 07:13	15° $\text{O}$ 24'30	1.34614 AU	superior conj	5934 Sep 11 19:32	22° $\text{P}$ 20'47	1°37'52
evening rise	5933 Oct 05 17:28	24° $\text{O}$ 10'46		minimum elong	5934 Sep 11 18:07	22° $\text{P}$ 13'07	1°37'47
	5933 Oct 08 19:31	0° $\text{P}$		max. Earth dist.	5934 Sep 14 05:27	27° $\text{P}$ 31'04	1.33291 AU
desc. node	5933 Oct 18 08:55	16° $\text{P}$ 29'38			5934 Sep 15 09:38	0° $\text{O}$	
	5933 Oct 27 09:07	0° $\text{Z}$		evening rise	5934 Sep 19 08:18	8° $\text{O}$ 06'15	
evening max el	5933 Nov 09 19:29	16° $\text{Z}$ 02'52	26°54'18		5934 Oct 01 06:55	0° $\text{P}$	

desc. node	5934 Oct 05 05:57	6°♄21'50			5935 Sep 25 04:02	0°♄	
evening max el	5934 Oct 23 07:40	29°♄25'17	27°23'45	evening max el	5935 Oct 05 17:11	12°♄18'15	27°23'37
	5934 Oct 23 22:30	0°♄		retrograde	5935 Oct 19 12:01	19°♄32'14	
retrograde	5934 Nov 05 21:27	6°♄43'39		evening set	5935 Oct 26 15:49	17°♄06'15	
evening set	5934 Nov 12 22:07	4°♄06'19		min. Earth dist.	5935 Oct 30 07:16	14°♄11'06	0.62367 AU
min. Earth dist.	5934 Nov 16 16:29	0°♄42'38	0.64175 AU	inferior conj	5935 Nov 02 04:52	11°♄28'14	-3°26'34
	5934 Nov 17 08:57	30°♄		minimum elong	5935 Nov 02 10:50	11°♄14'14	3°24'36
inferior conj	5934 Nov 19 03:15	28°♄08'19	-2°22'00	morning rise	5935 Nov 09 07:40	6°♄22'33	
minimum elong	5934 Nov 19 07:28	27°♄57'13	2°20'20	direct	5935 Nov 11 15:35	5°♄58'17	
morning rise	5934 Nov 25 18:17	22°♄44'42		asc. node	5935 Nov 13 04:23	6°♄09'06	
asc. node	5934 Nov 26 07:22	22°♄32'32		morning max el	5935 Nov 18 10:45	9°♄26'20	17°50'07
direct	5934 Nov 28 06:15	22°♄13'11			5935 Dec 02 00:03	0°♄	
morning max el	5934 Dec 04 18:18	25°♄37'48	17°52'49	morning set	5935 Dec 04 09:06	4°♄14'14	
	5934 Dec 08 10:39	0°♄					
morning set	5934 Dec 21 16:41	21°♄20'44		superior conj	5935 Dec 15 14:01	23°♄50'28	0°24'55
	5934 Dec 26 19:34	0°♄		minimum elong	5935 Dec 15 16:18	24°♄00'10	0°24'37
desc. node	5935 Jan 01 05:11	8°♄57'07		desc. node	5935 Dec 19 02:14	29°♄43'22	
					5935 Dec 19 06:15	0°♄	
superior conj	5935 Jan 03 18:41	13°♄07'29	-0°18'01	max. Earth dist.	5935 Dec 22 15:20	5°♄32'07	1.43454 AU
minimum elong	5935 Jan 03 16:37	12°♄59'05	0°17'40	evening rise	5935 Dec 30 06:13	17°♄37'33	
max. Earth dist.	5935 Jan 08 23:12	21°♄26'01	1.44725 AU		5936 Jan 07 08:57	0°♄	
	5935 Jan 14 10:07	0°♄			5936 Jan 29 10:28	0°♄	
evening rise	5935 Jan 19 17:50	8°♄13'39		evening max el	5936 Jan 30 04:40	0°♄47'19	21°30'12
	5935 Feb 03 04:34	0°♄		retrograde	5936 Feb 08 02:37	6°♄04'24	
evening max el	5935 Feb 16 06:55	17°♄10'59	20°20'08	asc. node	5936 Feb 09 03:40	5°♄58'37	
asc. node	5935 Feb 22 06:38	21°♄29'08		evening set	5936 Feb 12 09:33	4°♄22'30	
retrograde	5935 Feb 24 04:51	21°♄48'45			5936 Feb 16 08:16	30°♄	
evening set	5935 Feb 28 01:43	20°♄22'09		inferior conj	5936 Feb 17 17:28	28°♄06'12	2°32'34
inferior conj	5935 Mar 05 10:19	14°♄16'34	3°02'20	minimum elong	5936 Feb 17 15:06	28°♄14'25	2°31'56
minimum elong	5935 Mar 05 08:13	14°♄23'41	3°01'55	min. Earth dist.	5936 Feb 17 22:26	27°♄49'00	0.68051 AU
min. Earth dist.	5935 Mar 06 04:00	13°♄16'23	0.67509 AU	morning rise	5936 Feb 22 20:29	21°♄54'01	
morning rise	5935 Mar 10 14:30	8°♄01'53		direct	5936 Feb 27 22:51	19°♄41'07	
direct	5935 Mar 16 07:13	5°♄29'10		morning max el	5936 Mar 09 02:55	25°♄42'55	23°06'18
morning max el	5935 Mar 27 17:36	12°♄19'40	24°35'39		5936 Mar 13 00:34	0°♄	
desc. node	5935 Mar 30 04:31	14°♄56'43		desc. node	5936 Mar 16 01:32	3°♄43'24	
	5935 Apr 10 22:27	0°♄			5936 Apr 03 11:13	0°♄	
	5935 Apr 30 03:26	0°♄		morning set	5936 Apr 12 20:04	15°♄04'00	
morning set	5935 May 02 16:32	4°♄25'10		max. Earth dist.	5936 Apr 17 03:08	22°♄21'39	1.39622 AU
max. Earth dist.	5935 May 06 07:24	10°♄53'49	1.37419 AU		5936 Apr 21 11:14	0°♄	
superior conj	5935 May 13 02:23	23°♄40'20	-1°15'40	superior conj	5936 Apr 24 19:38	6°♄05'29	-1°42'38
minimum elong	5935 May 13 06:40	24°♄01'04	1°15'01	minimum elong	5936 Apr 25 00:51	6°♄29'32	1°42'04
	5935 May 16 07:50	0°♄		evening rise	5936 May 04 09:56	24°♄16'01	
asc. node	5935 May 21 05:51	9°♄48'25		asc. node	5936 May 07 02:55	29°♄25'47	
evening rise	5935 May 21 16:41	10°♄42'25			5936 May 07 10:10	0°♄	
	5935 Jun 01 05:21	0°♄		evening max el	5936 May 20 13:43	20°♄17'14	18°33'41
evening max el	5935 Jun 07 11:16	7°♄59'22	19°16'49	retrograde	5936 May 28 08:20	24°♄08'04	
retrograde	5935 Jun 16 14:54	12°♄28'25		evening set	5936 May 30 13:07	23°♄50'36	
evening set	5935 Jun 18 13:40	12°♄17'07		inferior conj	5936 Jun 07 05:10	19°♄22'32	1°22'12
desc. node	5935 Jun 26 03:48	8°♄44'16		minimum elong	5936 Jun 07 07:54	19°♄17'12	1°21'16
inferior conj	5935 Jun 27 01:46	8°♄08'11	-0°16'26	min. Earth dist.	5936 Jun 10 13:50	16°♄47'16	0.57813 AU
minimum elong	5935 Jun 27 01:03	8°♄09'21	0°16'12	desc. node	5936 Jun 12 00:50	15°♄45'31	
min. Earth dist.	5935 Jun 29 19:50	6°♄19'20	0.56033 AU	morning rise	5936 Jun 14 23:25	14°♄02'44	
morning rise	5935 Jul 05 09:31	3°♄23'52		direct	5936 Jun 20 19:02	12°♄37'10	
direct	5935 Jul 10 07:53	2°♄28'07		morning max el	5936 Jul 05 04:13	20°♄14'26	26°45'26
morning max el	5935 Jul 24 11:18	9°♄39'25	25°21'28		5936 Jul 13 13:14	0°♄	
	5935 Aug 08 18:33	0°♄			5936 Jul 31 09:39	0°♄	
asc. node	5935 Aug 17 05:06	15°♄41'02		asc. node	5936 Aug 03 02:09	5°♄30'50	
morning set	5935 Aug 20 07:44	22°♄08'36		morning set	5936 Aug 03 17:48	6°♄53'01	
	5935 Aug 23 22:59	0°♄					
				superior conj	5936 Aug 10 17:22	22°♄05'42	1°11'57
superior conj	5935 Aug 27 05:40	7°♄12'13	1°27'24	minimum elong	5936 Aug 10 15:05	21°♄53'02	1°11'34
minimum elong	5935 Aug 27 03:35	7°♄00'47	1°27'09	max. Earth dist.	5936 Aug 10 21:33	22°♄28'47	1.31933 AU
max. Earth dist.	5935 Aug 28 11:16	9°♄54'27	1.32398 AU		5936 Aug 14 07:32	0°♄	
evening rise	5935 Sep 03 08:04	22°♄25'47		evening rise	5936 Aug 17 13:58	7°♄01'20	
	5935 Sep 07 02:25	0°♄			5936 Aug 29 14:38	0°♄	
desc. node	5935 Sep 22 03:01	25°♄41'33		desc. node	5936 Sep 08 00:04	14°♄15'42	

evening max el	5936 Sep 16 21:06	24°♄28'18	26°50'05		5937 Aug 24 09:18	0°♄	
	5936 Sep 24 10:18	0°♄		desc. node	5937 Aug 25 21:06	1°♄46'06	
retrograde	5936 Sep 30 18:37	1°♄37'38		evening max el	5937 Aug 29 17:20	5°♄48'49	25°44'31
	5936 Oct 06 22:15	30°♄		retrograde	5937 Sep 12 16:09	12°♄54'21	
evening set	5936 Oct 07 16:42	29°♄34'37		evening set	5937 Sep 18 19:58	11°♄24'54	
min. Earth dist.	5936 Oct 11 11:08	26°♄57'21	0.60343 AU	min. Earth dist.	5937 Sep 23 05:32	8°♄48'32	0.58275 AU
inferior conj	5936 Oct 14 16:01	24°♄19'44	-4°25'35	inferior conj	5937 Sep 26 09:16	6°♄33'38	-5°09'00
minimum elong	5936 Oct 14 22:31	24°♄06'20	4°24'01	minimum elong	5937 Sep 26 13:38	6°♄25'48	5°08'28
morning rise	5936 Oct 22 06:25	19°♄35'31		morning rise	5937 Oct 04 09:38	2°♄12'39	
direct	5936 Oct 24 13:34	19°♄15'23		direct	5937 Oct 06 19:37	1°♄54'08	
asc. node	5936 Oct 30 01:26	21°♄16'36		morning max el	5937 Oct 15 05:33	5°♄55'46	18°43'13
morning max el	5936 Oct 31 23:38	22°♄55'19	18°06'26	asc. node	5937 Oct 16 22:28	7°♄42'48	
	5936 Nov 06 13:33	0°♄			5937 Oct 30 11:53	0°♄	
morning set	5936 Nov 16 17:29	17°♄52'36		morning set	5937 Oct 31 13:00	2°♄02'06	
	5936 Nov 23 06:02	0°♄					
superior conj	5936 Nov 26 10:46	5°♄47'09	0°58'53	superior conj	5937 Nov 09 04:15	18°♄44'04	1°22'37
minimum elong	5936 Nov 26 14:33	6°♄04'04	0°58'25	minimum elong	5937 Nov 09 07:33	18°♄59'37	1°22'17
max. Earth dist.	5936 Dec 04 02:37	19°♄03'43	1.41668 AU		5937 Nov 15 07:45	0°♄	
desc. node	5936 Dec 04 23:16	20°♄30'03		max. Earth dist.	5937 Nov 16 08:55	1°♄51'17	1.39592 AU
evening rise	5936 Dec 09 08:51	27°♄42'31		evening rise	5937 Nov 20 09:21	8°♄47'10	
	5936 Dec 10 19:11	0°♄		desc. node	5937 Nov 21 20:18	11°♄13'50	
	5936 Dec 31 01:27	0°♄			5937 Dec 03 18:10	0°♄	
evening max el	5937 Jan 11 21:32	14°♄25'22	22°47'59	evening max el	5937 Dec 25 11:20	28°♄06'56	24°07'51
retrograde	5937 Jan 21 22:21	20°♄22'47			5937 Dec 27 11:19	0°♄	
asc. node	5937 Jan 26 00:42	18°♄56'34		retrograde	5938 Jan 05 14:47	4°♄39'53	
evening set	5937 Jan 26 16:48	18°♄25'20		evening set	5938 Jan 10 21:53	2°♄27'30	
inferior conj	5937 Feb 01 01:42	12°♄01'37	1°54'22	asc. node	5938 Jan 12 21:43	0°♄28'06	
minimum elong	5937 Jan 31 23:31	12°♄09'10	1°53'39		5938 Jan 13 07:25	30°♄	
min. Earth dist.	5937 Jan 31 18:58	12°♄24'55	0.68192 AU	min. Earth dist.	5938 Jan 15 15:23	27°♄00'39	0.67953 AU
morning rise	5937 Feb 06 06:09	5°♄53'17		inferior conj	5938 Jan 16 09:12	26°♄00'26	1°08'43
direct	5937 Feb 10 18:03	4°♄03'03		minimum elong	5938 Jan 16 07:40	26°♄05'37	1°08'09
morning max el	5937 Feb 19 16:17	9°♄15'01	21°39'47	morning rise	5938 Jan 21 17:30	19°♄57'32	
desc. node	5937 Mar 02 22:33	23°♄08'46		direct	5938 Jan 25 15:46	18°♄29'46	
	5937 Mar 07 18:40	0°♄		morning max el	5938 Feb 02 12:39	22°♄58'46	20°22'58
morning set	5937 Mar 23 19:15	24°♄22'47			5938 Feb 08 12:28	0°♄	
	5937 Mar 27 07:03	0°♄		desc. node	5938 Feb 17 19:34	13°♄02'23	
max. Earth dist.	5937 Mar 30 02:59	4°♄38'54	1.41763 AU		5938 Mar 01 01:37	0°♄	
				morning set	5938 Mar 02 19:46	2°♄42'38	
superior conj	5937 Apr 06 17:11	17°♄33'33	-2°02'30	max. Earth dist.	5938 Mar 12 09:52	17°♄49'20	1.43568 AU
minimum elong	5937 Apr 06 21:18	17°♄51'31	2°02'17				
	5937 Apr 13 16:32	0°♄		superior conj	5938 Mar 18 14:39	27°♄56'08	-2°09'48
evening rise	5937 Apr 17 14:50	7°♄11'12		minimum elong	5938 Mar 18 14:19	27°♄54'45	2°09'48
asc. node	5937 Apr 23 23:57	18°♄43'05			5938 Mar 19 20:27	0°♄	
	5937 May 01 05:51	0°♄		evening rise	5938 Mar 31 03:06	19°♄18'48	
evening max el	5937 May 03 22:53	3°♄05'13	18°10'43		5938 Apr 06 06:40	0°♄	
retrograde	5937 May 10 20:11	6°♄33'53		asc. node	5938 Apr 10 20:59	7°♄33'57	
evening set	5937 May 13 07:59	6°♄07'10		evening max el	5938 Apr 17 11:23	16°♄14'56	18°07'11
inferior conj	5937 May 20 05:47	1°♄18'38	2°30'48	retrograde	5938 Apr 23 22:26	19°♄36'34	
minimum elong	5937 May 20 09:06	1°♄11'07	2°29'58	evening set	5938 Apr 26 16:57	18°♄58'30	
	5937 May 21 16:17	30°♄		inferior conj	5938 May 03 00:21	13°♄50'21	3°11'03
min. Earth dist.	5937 May 23 14:14	28°♄17'54	0.59965 AU	minimum elong	5938 May 03 02:35	13°♄44'33	3°10'42
morning rise	5937 May 27 07:33	25°♄31'36		min. Earth dist.	5938 May 05 22:53	10°♄48'52	0.62169 AU
desc. node	5937 May 29 21:51	24°♄15'08		morning rise	5938 May 09 10:32	7°♄46'53	
direct	5937 Jun 02 19:05	23°♄32'11		direct	5938 May 16 05:53	5°♄18'39	
	5937 Jun 15 15:25	0°♄		desc. node	5938 May 16 18:52	5°♄19'32	
morning max el	5937 Jun 17 03:37	1°♄26'02	27°38'19	morning max el	5938 May 30 08:54	13°♄19'56	27°53'34
	5937 Jul 07 19:13	0°♄			5938 Jun 12 16:55	0°♄	
morning set	5937 Jul 19 00:36	21°♄25'38			5938 Jun 30 06:02	0°♄	
asc. node	5937 Jul 20 23:13	25°♄31'12		morning set	5938 Jul 03 02:03	5°♄39'25	
	5937 Jul 23 01:09	0°♄		asc. node	5938 Jul 07 20:14	15°♄36'47	
max. Earth dist.	5937 Jul 25 08:29	5°♄02'55	1.31886 AU	max. Earth dist.	5938 Jul 08 16:04	17°♄23'27	1.32281 AU
superior conj	5937 Jul 26 04:53	6°♄55'22	0°52'05	superior conj	5938 Jul 10 14:24	21°♄34'53	0°28'17
minimum elong	5937 Jul 26 02:52	6°♄44'13	0°51'40	minimum elong	5938 Jul 10 13:08	21°♄27'57	0°27'59
evening rise	5937 Aug 01 23:43	21°♄45'40			5938 Jul 14 10:46	0°♄	
	5937 Aug 05 23:04	0°♄		evening rise	5938 Jul 17 11:15	6°♄31'43	
					5938 Jul 29 17:53	0°♄	

evening max el	5938 Aug 11 06:57	16° $\mathbb{M}$ 25'48	24°15'17	evening rise	5939 Jul 01 22:46	21° $\mathbb{G}$ 14'03	
desc. node	5938 Aug 12 18:07	17° $\mathbb{M}$ 46'34			5939 Jul 06 04:56	0° $\mathcal{O}$	
retrograde	5938 Aug 25 02:14	23° $\mathbb{M}$ 22'27		evening max el	5939 Jul 23 19:54	26° $\mathcal{O}$ 44'43	22°37'09
evening set	5938 Aug 29 22:35	22° $\mathbb{M}$ 30'18			5939 Jul 27 16:50	0° $\mathbb{M}$	
min. Earth dist.	5938 Sep 04 17:49	19° $\mathbb{M}$ 35'57	0.56441 AU	desc. node	5939 Jul 30 15:07	1° $\mathbb{M}$ 44'44	
inferior conj	5938 Sep 07 06:17	18° $\mathbb{M}$ 01'34	-5°21'30	retrograde	5939 Aug 05 23:21	3° $\mathbb{M}$ 17'23	
minimum elong	5938 Sep 07 05:00	18° $\mathbb{M}$ 03'35	5°21'28	evening set	5939 Aug 09 07:16	2° $\mathbb{M}$ 53'05	
morning rise	5938 Sep 15 13:48	14° $\mathbb{M}$ 01'07			5939 Aug 16 03:22	30° $\mathcal{R}$ $\mathcal{O}$	
direct	5938 Sep 18 06:28	13° $\mathbb{M}$ 41'55		min. Earth dist.	5939 Aug 17 03:31	29° $\mathcal{O}$ 26'14	0.55180 AU
morning max el	5938 Sep 28 01:04	18° $\mathbb{M}$ 16'31	19°41'50	inferior conj	5939 Aug 18 08:51	28° $\mathcal{O}$ 44'29	-4°46'24
asc. node	5938 Oct 03 19:30	25° $\mathbb{M}$ 11'29		minimum elong	5939 Aug 18 01:16	28° $\mathcal{O}$ 55'18	4°45'00
	5938 Oct 06 21:24	0° $\mathcal{O}$		morning rise	5939 Aug 26 21:13	24° $\mathcal{O}$ 54'53	
morning set	5938 Oct 15 16:01	16° $\mathcal{O}$ 32'00		direct	5939 Aug 29 23:51	24° $\mathcal{O}$ 32'41	
	5938 Oct 22 07:55	0° $\mathbb{M}$		morning max el	5939 Sep 10 08:09	29° $\mathcal{O}$ 50'21	21°02'07
					5939 Sep 10 12:16	0° $\mathbb{M}$	
superior conj	5938 Oct 23 13:07	2° $\mathbb{M}$ 25'07	1°36'47	asc. node	5939 Sep 20 16:32	13° $\mathbb{M}$ 28'40	
minimum elong	5938 Oct 23 15:04	2° $\mathbb{M}$ 34'45	1°36'40		5939 Sep 29 09:23	0° $\mathcal{O}$	
max. Earth dist.	5938 Oct 29 13:50	14° $\mathbb{M}$ 00'51	1.37484 AU	morning set	5939 Sep 29 23:56	1° $\mathcal{O}$ 15'03	
evening rise	5938 Nov 02 07:59	20° $\mathbb{M}$ 51'33					
	5938 Nov 07 14:53	0° $\mathcal{X}$		superior conj	5939 Oct 07 08:58	16° $\mathcal{O}$ 37'45	1°42'38
desc. node	5938 Nov 08 17:19	1° $\mathcal{X}$ 50'05		minimum elong	5939 Oct 07 09:25	16° $\mathcal{O}$ 40'02	1°42'39
	5938 Nov 27 17:59	0° $\mathcal{Z}$		max. Earth dist.	5939 Oct 11 23:09	25° $\mathcal{O}$ 54'11	1.35570 AU
evening max el	5938 Dec 08 00:06	11° $\mathcal{Z}$ 51'32	25°23'08		5939 Oct 14 01:37	0° $\mathbb{M}$	
retrograde	5938 Dec 20 02:49	18° $\mathcal{Z}$ 50'12		evening rise	5939 Oct 16 01:26	3° $\mathbb{M}$ 47'10	
evening set	5938 Dec 25 23:12	16° $\mathcal{Z}$ 24'40		desc. node	5939 Oct 26 14:21	22° $\mathbb{M}$ 14'08	
min. Earth dist.	5938 Dec 30 09:18	11° $\mathcal{Z}$ 32'06	0.67349 AU		5939 Oct 31 12:37	0° $\mathcal{X}$	
asc. node	5938 Dec 30 18:45	11° $\mathcal{Z}$ 01'45		evening max el	5939 Nov 20 13:03	25° $\mathcal{X}$ 35'02	26°26'21
inferior conj	5938 Dec 31 14:06	9° $\mathcal{Z}$ 59'07	0°16'20		5939 Nov 25 20:30	0° $\mathcal{Z}$	
minimum elong	5938 Dec 31 13:41	10° $\mathcal{Z}$ 00'27	0°16'11	retrograde	5939 Dec 03 09:32	2° $\mathcal{Z}$ 48'01	
morning rise	5939 Jan 06 04:30	4° $\mathcal{Z}$ 03'41		evening set	5939 Dec 09 18:53	0° $\mathcal{Z}$ 12'49	
direct	5939 Jan 09 14:39	2° $\mathcal{Z}$ 56'09			5939 Dec 10 01:01	30° $\mathcal{R}$ $\mathcal{X}$	
morning max el	5939 Jan 16 16:54	6° $\mathcal{Z}$ 53'04	19°20'03	min. Earth dist.	5939 Dec 13 22:20	25° $\mathcal{X}$ 55'24	0.66392 AU
greatest brilliancy	5939 Jan 29 22:39	24° $\mathcal{Z}$ 32'00	-0.7m	inferior conj	5939 Dec 15 14:30	23° $\mathcal{X}$ 53'57	-0°41'54
	5939 Feb 02 13:18	0° $\approx$		minimum elong	5939 Dec 15 15:39	23° $\mathcal{X}$ 50'27	0°41'23
desc. node	5939 Feb 04 16:35	3° $\approx$ 16'15		asc. node	5939 Dec 17 15:47	21° $\mathcal{X}$ 29'39	
morning set	5939 Feb 09 18:46	11° $\approx$ 07'08		morning rise	5939 Dec 21 13:05	18° $\mathcal{X}$ 08'35	
	5939 Feb 21 21:25	0° $\mathcal{X}$		direct	5939 Dec 24 12:59	17° $\mathcal{X}$ 17'59	
max. Earth dist.	5939 Feb 22 23:36	1° $\mathcal{X}$ 43'11	1.44813 AU	morning max el	5939 Dec 31 03:57	20° $\mathcal{X}$ 54'10	18°32'58
					5940 Jan 07 08:09	0° $\mathcal{Z}$	
superior conj	5939 Feb 26 11:22	7° $\mathcal{X}$ 15'12	-1°59'04	morning set	5940 Jan 20 15:25	20° $\mathcal{Z}$ 41'25	
minimum elong	5939 Feb 26 04:33	6° $\mathcal{X}$ 48'02	1°58'40	desc. node	5940 Jan 22 13:35	23° $\mathcal{Z}$ 44'24	
	5939 Mar 12 10:52	0° $\mathcal{Y}$			5940 Jan 26 12:36	0° $\approx$	
evening rise	5939 Mar 12 18:21	0° $\mathcal{Y}$ 31'07					
asc. node	5939 Mar 28 18:00	25° $\mathcal{Y}$ 50'14		superior conj	5940 Feb 05 16:02	15° $\approx$ 56'12	-1°28'37
evening max el	5939 Apr 01 00:12	29° $\mathcal{Y}$ 38'50	18°22'24	minimum elong	5940 Feb 05 06:35	15° $\approx$ 19'12	1°27'37
	5939 Apr 01 08:49	0° $\mathcal{B}$		max. Earth dist.	5940 Feb 05 18:03	16° $\approx$ 04'06	1.45364 AU
retrograde	5939 Apr 07 10:45	3° $\mathcal{B}$ 07'16			5940 Feb 14 14:56	0° $\mathcal{X}$	
evening set	5939 Apr 10 11:50	2° $\mathcal{B}$ 16'32		evening rise	5940 Feb 21 10:13	10° $\mathcal{X}$ 46'03	
	5939 Apr 13 10:35	30° $\mathcal{R}$ $\mathcal{Y}$		greatest brilliancy	5940 Mar 01 08:01	24° $\mathcal{X}$ 53'58	-0.8m
inferior conj	5939 Apr 16 08:48	26° $\mathcal{Y}$ 49'55	3°28'33		5940 Mar 04 14:54	0° $\mathcal{Y}$	
minimum elong	5939 Apr 16 09:29	26° $\mathcal{Y}$ 47'57	3°28'29	evening max el	5940 Mar 14 10:40	13° $\mathcal{Y}$ 09'35	18°55'28
min. Earth dist.	5939 Apr 18 16:44	24° $\mathcal{Y}$ 09'05	0.64167 AU	asc. node	5940 Mar 14 15:02	13° $\mathcal{Y}$ 20'36	
morning rise	5939 Apr 22 06:14	20° $\mathcal{Y}$ 38'18		retrograde	5940 Mar 21 05:16	16° $\mathcal{Y}$ 57'11	
direct	5939 Apr 29 01:07	17° $\mathcal{Y}$ 52'59		evening set	5940 Mar 24 13:17	15° $\mathcal{Y}$ 52'57	
desc. node	5939 May 03 15:53	18° $\mathcal{Y}$ 58'14		inferior conj	5940 Mar 30 03:16	10° $\mathcal{Y}$ 09'25	3°28'35
morning max el	5939 May 12 17:50	25° $\mathcal{Y}$ 51'11	27°32'03	minimum elong	5940 Mar 30 02:33	10° $\mathcal{Y}$ 11'41	3°28'32
	5939 May 16 13:31	0° $\mathcal{B}$		min. Earth dist.	5940 Mar 31 19:33	8° $\mathcal{Y}$ 03'13	0.65802 AU
	5939 Jun 06 05:50	0° $\mathbb{I}$		morning rise	5940 Apr 04 15:23	3° $\mathcal{Y}$ 54'30	
morning set	5939 Jun 16 19:43	19° $\mathbb{I}$ 27'22		direct	5940 Apr 11 03:07	1° $\mathcal{Y}$ 05'35	
max. Earth dist.	5939 Jun 21 16:33	29° $\mathbb{I}$ 20'12	1.33141 AU	desc. node	5940 Apr 19 12:53	4° $\mathcal{Y}$ 39'50	
	5939 Jun 22 00:11	0° $\mathbb{G}$		morning max el	5940 Apr 24 03:56	8° $\mathcal{Y}$ 48'36	26°39'34
					5940 May 10 17:39	0° $\mathcal{B}$	
superior conj	5939 Jun 24 20:03	5° $\mathbb{G}$ 58'45	0°01'13		5940 May 28 16:23	0° $\mathbb{I}$	
minimum elong	5939 Jun 24 20:00	5° $\mathbb{G}$ 58'26	0°01'11	morning set	5940 May 30 02:19	2° $\mathbb{I}$ 39'29	
behind sun begin	5939 Jun 24 14:36	5° $\mathbb{G}$ 29'37		max. Earth dist.	5940 Jun 03 06:53	10° $\mathbb{I}$ 47'48	1.34473 AU
behind sun end	5939 Jun 25 01:24	6° $\mathbb{G}$ 27'18					
asc. node	5939 Jun 24 17:15	5° $\mathbb{G}$ 43'48		superior conj	5940 Jun 07 19:35	19° $\mathbb{I}$ 59'53	-0°28'14

minimum elong	5940 Jun 07 21:08	20° $\Pi$ 07'52	0°27'56	superior conj	5941 May 22 10:15	3° $\Pi$ 30'57	-0°58'35
asc. node	5940 Jun 10 14:17	25° $\Pi$ 47'51		minimum elong	5941 May 22 13:35	3° $\Pi$ 47'33	0°58'01
	5940 Jun 12 14:14	0° $\mathfrak{S}$		asc. node	5941 May 28 11:20	15° $\Pi$ 45'02	
evening rise	5940 Jun 15 08:18	5° $\mathfrak{S}$ 46'03		evening rise	5941 May 30 13:41	20° $\Pi$ 01'24	
	5940 Jun 28 15:40	0° $\Omega$			5941 Jun 04 14:59	0° $\mathfrak{S}$	
evening max el	5940 Jul 04 16:21	7° $\Omega$ 18'57	21°05'39	evening max el	5941 Jun 17 01:12	18° $\mathfrak{S}$ 31'57	19°50'44
retrograde	5940 Jul 16 12:07	13° $\Omega$ 08'58		retrograde	5941 Jun 27 04:13	23° $\mathfrak{S}$ 29'49	
desc. node	5940 Jul 16 12:09	13° $\Omega$ 08'58		evening set	5941 Jun 29 01:40	23° $\mathfrak{S}$ 20'09	
evening set	5940 Jul 18 18:03	12° $\Omega$ 57'08		desc. node	5941 Jul 03 09:11	21° $\mathfrak{S}$ 54'23	
inferior conj	5940 Jul 28 01:52	8° $\Omega$ 59'24	-3°19'45	inferior conj	5941 Jul 07 23:55	19° $\mathfrak{S}$ 18'42	-1°23'17
minimum elong	5940 Jul 27 17:18	9° $\Omega$ 11'27	3°17'03	minimum elong	5941 Jul 07 20:04	19° $\mathfrak{S}$ 24'37	1°21'52
min. Earth dist.	5940 Jul 28 13:24	8° $\Omega$ 43'09	0.54764 AU	min. Earth dist.	5941 Jul 10 01:41	18° $\mathfrak{S}$ 02'32	0.55310 AU
morning rise	5940 Aug 05 16:57	5° $\Omega$ 02'48		morning rise	5941 Jul 16 12:28	14° $\mathfrak{S}$ 54'48	
direct	5940 Aug 09 08:34	4° $\Omega$ 34'11		direct	5941 Jul 20 22:03	14° $\mathfrak{S}$ 12'15	
morning max el	5940 Aug 22 04:05	10° $\Omega$ 39'58	22°39'51	morning max el	5941 Aug 03 18:05	21° $\mathfrak{S}$ 03'01	24°24'24
	5940 Sep 05 06:10	0° $\mathfrak{M}$			5941 Aug 11 11:41	0° $\Omega$	
asc. node	5940 Sep 06 13:34	2° $\mathfrak{M}$ 22'38		asc. node	5941 Aug 24 10:36	21° $\Omega$ 44'00	
morning set	5940 Sep 13 10:39	16° $\mathfrak{M}$ 05'21			5941 Aug 28 11:33	0° $\mathfrak{M}$	
	5940 Sep 19 22:55	0° $\mathfrak{L}$		morning set	5941 Aug 28 22:23	0° $\mathfrak{M}$ 57'17	
superior conj	5940 Sep 20 12:25	1° $\mathfrak{L}$ 11'55	1°41'24	superior conj	5941 Sep 04 20:44	15° $\mathfrak{M}$ 59'05	1°34'05
minimum elong	5940 Sep 20 11:34	1° $\mathfrak{L}$ 07'27	1°41'23	minimum elong	5941 Sep 04 18:58	15° $\mathfrak{M}$ 49'32	1°33'55
max. Earth dist.	5940 Sep 23 16:36	7° $\mathfrak{L}$ 52'40	1.33998 AU	max. Earth dist.	5941 Sep 06 18:18	20° $\mathfrak{M}$ 05'58	1.32849 AU
evening rise	5940 Sep 28 09:31	17° $\mathfrak{L}$ 23'11			5941 Sep 11 11:01	0° $\mathfrak{L}$	
	5940 Oct 05 03:22	0° $\mathfrak{M}$		evening rise	5941 Sep 12 04:28	1° $\mathfrak{L}$ 29'09	
desc. node	5940 Oct 12 11:22	12° $\mathfrak{M}$ 20'06			5941 Sep 28 01:20	0° $\mathfrak{M}$	
	5940 Oct 24 20:59	0° $\mathfrak{J}$		desc. node	5941 Sep 29 08:25	1° $\mathfrak{M}$ 59'36	
evening max el	5940 Nov 02 01:53	9° $\mathfrak{J}$ 08'24	27°10'08	evening max el	5941 Oct 15 12:59	22° $\mathfrak{M}$ 18'43	27°27'39
retrograde	5940 Nov 15 10:29	16° $\mathfrak{J}$ 26'35		retrograde	5941 Oct 29 05:11	29° $\mathfrak{M}$ 36'02	
evening set	5940 Nov 22 06:51	13° $\mathfrak{J}$ 47'25		evening set	5941 Nov 05 08:14	27° $\mathfrak{M}$ 01'46	
min. Earth dist.	5940 Nov 26 04:09	10° $\mathfrak{J}$ 05'04	0.65080 AU	min. Earth dist.	5941 Nov 09 00:45	23° $\mathfrak{M}$ 51'31	0.63434 AU
inferior conj	5940 Nov 28 08:12	7° $\mathfrak{J}$ 40'34	-1°44'37	inferior conj	5941 Nov 11 16:31	21° $\mathfrak{M}$ 11'50	-2°49'40
minimum elong	5940 Nov 28 11:15	7° $\mathfrak{J}$ 32'03	1°43'21	minimum elong	5941 Nov 11 21:33	20° $\mathfrak{M}$ 59'12	2°47'47
asc. node	5940 Dec 03 12:49	2° $\mathfrak{J}$ 47'23		morning rise	5941 Nov 18 12:31	15° $\mathfrak{M}$ 55'49	
morning rise	5940 Dec 04 16:49	2° $\mathfrak{J}$ 08'16		asc. node	5941 Nov 20 09:52	15° $\mathfrak{M}$ 29'10	
direct	5940 Dec 07 08:31	1° $\mathfrak{J}$ 30'50		direct	5941 Nov 20 22:24	15° $\mathfrak{M}$ 27'50	
morning max el	5940 Dec 13 19:31	4° $\mathfrak{J}$ 56'48	18°02'37	morning max el	5941 Nov 27 12:35	18° $\mathfrak{M}$ 52'43	17°49'33
	5940 Dec 30 16:23	0° $\mathfrak{Z}$			5941 Dec 05 16:10	0° $\mathfrak{J}$	
morning set	5940 Dec 31 17:50	1° $\mathfrak{Z}$ 45'17		morning set	5941 Dec 13 22:13	14° $\mathfrak{J}$ 03'57	
desc. node	5941 Jan 08 10:36	14° $\mathfrak{Z}$ 22'46			5941 Dec 23 05:42	0° $\mathfrak{Z}$	
superior conj	5941 Jan 14 23:52	24° $\mathfrak{Z}$ 53'25	-0°44'52	superior conj	5941 Dec 26 04:08	4° $\mathfrak{Z}$ 52'30	0°01'03
minimum elong	5941 Jan 14 18:25	24° $\mathfrak{Z}$ 31'45	0°44'05	minimum elong	5941 Dec 26 04:14	4° $\mathfrak{Z}$ 52'57	0°01'04
	5941 Jan 18 05:25	0° $\approx$		behind sun begin	5941 Dec 25 18:42	4° $\mathfrak{Z}$ 13'38	
max. Earth dist.	5941 Jan 18 13:59	0° $\approx$ 33'40	1.45168 AU	behind sun end	5941 Dec 26 13:46	5° $\mathfrak{Z}$ 32'11	
evening rise	5941 Jan 31 05:59	20° $\approx$ 16'47		desc. node	5941 Dec 26 07:39	5° $\mathfrak{Z}$ 07'01	
	5941 Feb 06 13:34	0° $\mathfrak{H}$		max. Earth dist.	5942 Jan 01 07:47	14° $\mathfrak{Z}$ 51'18	1.44254 AU
greatest brilliancy	5941 Feb 13 20:35	11° $\mathfrak{H}$ 02'22	-0.7m	evening rise	5942 Jan 10 16:26	29° $\mathfrak{Z}$ 31'12	
evening max el	5941 Feb 25 16:50	26° $\mathfrak{H}$ 43'25	19°44'58		5942 Jan 10 23:56	0° $\approx$	
asc. node	5941 Mar 01 12:05	29° $\mathfrak{H}$ 52'20			5942 Jan 31 08:10	0° $\mathfrak{H}$	
	5941 Mar 01 17:20	0° $\mathfrak{Y}$		evening max el	5942 Feb 08 17:35	10° $\mathfrak{H}$ 18'16	20°48'35
retrograde	5941 Mar 05 03:00	1° $\mathfrak{Y}$ 00'44		asc. node	5942 Feb 16 09:08	15° $\mathfrak{H}$ 10'24	
	5941 Mar 08 08:20	30° $\mathfrak{R}$ $\mathfrak{H}$		retrograde	5942 Feb 17 01:23	15° $\mathfrak{H}$ 12'51	
evening set	5941 Mar 08 18:48	29° $\mathfrak{H}$ 42'24		evening set	5942 Feb 21 02:18	13° $\mathfrak{H}$ 39'49	
inferior conj	5941 Mar 14 04:39	23° $\mathfrak{H}$ 43'56	3°15'08	inferior conj	5942 Feb 26 10:22	7° $\mathfrak{H}$ 29'02	2°50'48
minimum elong	5941 Mar 14 02:56	23° $\mathfrak{H}$ 49'40	3°14'52	minimum elong	5942 Feb 26 08:06	7° $\mathfrak{H}$ 36'50	2°50'18
min. Earth dist.	5941 Mar 15 06:08	22° $\mathfrak{H}$ 19'11	0.67012 AU	min. Earth dist.	5942 Feb 26 22:28	6° $\mathfrak{H}$ 47'23	0.67790 AU
morning rise	5941 Mar 19 10:51	17° $\mathfrak{H}$ 28'32		morning rise	5942 Mar 03 13:42	1° $\mathfrak{H}$ 15'01	
direct	5941 Mar 25 11:08	14° $\mathfrak{H}$ 47'33			5942 Mar 05 04:55	30° $\mathfrak{R}$ $\approx$	
desc. node	5941 Apr 06 09:54	21° $\mathfrak{H}$ 52'27		direct	5942 Mar 09 00:17	28° $\approx$ 50'18	
morning max el	5941 Apr 06 13:29	22° $\mathfrak{H}$ 01'28	25°24'46		5942 Mar 13 04:39	0° $\mathfrak{H}$	
	5941 Apr 13 12:45	0° $\mathfrak{Y}$		morning max el	5942 Mar 19 22:18	5° $\mathfrak{H}$ 21'29	23°57'45
	5941 May 04 00:09	0° $\mathfrak{B}$		desc. node	5942 Mar 24 06:55	10° $\mathfrak{H}$ 10'13	
morning set	5941 May 12 17:34	15° $\mathfrak{B}$ 04'11			5942 Apr 07 22:35	0° $\mathfrak{Y}$	
max. Earth dist.	5941 May 16 10:19	21° $\mathfrak{B}$ 53'38	1.36246 AU	morning set	5942 Apr 24 11:56	26° $\mathfrak{Y}$ 26'34	
	5941 May 20 15:33	0° $\Pi$			5942 Apr 26 13:08	0° $\mathfrak{B}$	
				max. Earth dist.	5942 Apr 28 06:25	3° $\mathfrak{B}$ 02'12	1.38344 AU

superior conj	5942 May 05 12:33	16°  23'11	-1°27'41	superior conj	5943 Apr 17 22:04	28°  25'34	-1°52'14
minimum elong	5942 May 05 17:23	16°  46'08	1°27'02	minimum elong	5943 Apr 18 03:09	28°  48'30	1°51'48
	5942 May 12 12:56	0°  II			5943 Apr 18 18:59	0°  B	
evening rise	5942 May 14 12:17	3°  II52'43		evening rise	5943 Apr 28 00:47	17°  B10'54	
asc. node	5942 May 15 08:23	5°  II31'06		asc. node	5943 May 02 05:25	25°  B00'28	
	5942 May 30 10:50	0°  G			5943 May 05 00:14	0°  II	
evening max el	5942 May 30 22:10	0°  G28'27	18°55'58	evening max el	5943 May 14 04:01	13°  II00'44	18°21'31
retrograde	5942 Jun 08 10:41	4°  G39'35		retrograde	5943 May 21 12:00	16°  II39'47	
evening set	5942 Jun 10 11:26	4°  G26'15		evening set	5943 May 23 19:50	16°  II18'41	
inferior conj	5942 Jun 18 15:07	0°  G09'53	0°28'46	inferior conj	5943 May 31 03:46	11°  II42'14	1°55'02
minimum elong	5942 Jun 18 16:15	0°  G07'53	0°28'20	minimum elong	5943 May 31 07:02	11°  II35'26	1°54'02
	5942 Jun 18 20:41	30°  RII		min. Earth dist.	5943 Jun 03 14:05	8°  II52'59	0.58706 AU
desc. node	5942 Jun 20 06:12	29°  II00'23		desc. node	5943 Jun 07 03:14	6°  II26'11	
min. Earth dist.	5942 Jun 21 17:33	27°  II58'56	0.56717 AU	morning rise	5943 Jun 07 15:07	6°  II09'41	
morning rise	5942 Jun 26 17:41	25°  II09'31		direct	5943 Jun 13 18:38	4°  II29'19	
direct	5942 Jul 02 01:17	24°  II01'57		morning max el	5943 Jun 28 03:54	12°  II14'56	27°12'10
	5942 Jul 14 18:56	0°  G			5943 Jul 12 02:23	0°  G	
morning max el	5942 Jul 16 08:33	1°  G26'37	26°00'18	morning set	5943 Jul 28 18:23	0°  Q25'53	
	5942 Aug 05 11:18	0°  Q			5943 Jul 28 13:27	0°  Q	
asc. node	5942 Aug 11 07:38	11°  Q25'28		asc. node	5943 Jul 29 04:41	1°  Q20'05	
morning set	5942 Aug 13 09:32	15°  Q46'13					
	5942 Aug 19 22:15	0°  M		superior conj	5943 Aug 04 19:37	15°  Q45'02	1°04'02
superior conj	5942 Aug 20 07:47	0°  M52'36	1°21'26	minimum elong	5943 Aug 04 17:23	15°  Q32'41	1°03'37
minimum elong	5942 Aug 20 05:33	0°  M40'19	1°21'07	max. Earth dist.	5943 Aug 04 13:09	15°  Q09'19	1.31862 AU
max. Earth dist.	5942 Aug 21 02:16	2°  M34'27	1.32140 AU		5943 Aug 11 08:04	0°  M	
evening rise	5942 Aug 27 07:10	15°  M56'36		evening rise	5943 Aug 11 14:58	0°  M36'38	
	5942 Sep 03 09:47	0°  A			5943 Aug 27 13:32	0°  A	
desc. node	5942 Sep 16 05:28	21°  A01'53		desc. node	5943 Sep 03 02:30	9°  A11'10	
	5942 Sep 23 04:25	0°  M		evening max el	5943 Sep 09 21:13	16°  A43'38	26°25'52
evening max el	5942 Sep 27 20:18	4°  M54'13	27°13'32	retrograde	5943 Sep 23 19:49	23°  A51'08	
retrograde	5942 Oct 11 16:52	12°  M07'04		evening set	5943 Sep 30 11:34	22°  A01'43	
evening set	5942 Oct 18 19:23	9°  M49'15		min. Earth dist.	5943 Oct 04 10:45	19°  A26'47	0.59452 AU
min. Earth dist.	5942 Oct 22 10:57	7°  M03'22	0.61517 AU	inferior conj	5943 Oct 07 16:17	16°  A56'50	-4°46'44
inferior conj	5942 Oct 25 12:23	4°  M20'29	-3°52'49	minimum elong	5943 Oct 07 22:18	16°  A45'08	4°45'35
minimum elong	5942 Oct 25 18:48	4°  M06'12	3°50'55	morning rise	5943 Oct 15 11:10	12°  A22'05	
	5942 Oct 31 08:38	30°  R  A		direct	5943 Oct 17 18:58	12°  A02'58	
morning rise	5942 Nov 01 20:15	29°  A23'44		asc. node	5943 Oct 25 03:56	15°  A27'05	
direct	5942 Nov 04 03:15	29°  A01'42		morning max el	5943 Oct 25 14:12	15°  A51'16	18°19'27
asc. node	5942 Nov 07 06:54	29°  A45'00			5943 Nov 04 11:21	0°  M	
	5942 Nov 07 19:02	0°  M		morning set	5943 Nov 10 11:39	11°  M10'29	
morning max el	5942 Nov 11 03:58	2°  M34'02	17°54'40	superior conj	5943 Nov 19 16:45	28°  M30'49	1°10'11
morning set	5942 Nov 26 22:03	27°  M17'54		minimum elong	5943 Nov 19 20:30	28°  M47'58	1°09'45
	5942 Nov 28 09:39	0°  A			5943 Nov 20 12:19	0°  A	
superior conj	5942 Dec 07 10:37	16°  A07'36	0°40'33	max. Earth dist.	5943 Nov 27 06:12	11°  A54'02	1.40805 AU
minimum elong	5942 Dec 07 13:52	16°  A21'39	0°40'07	desc. node	5943 Nov 30 01:43	16°  A39'15	
desc. node	5942 Dec 13 04:41	25°  A53'37		evening rise	5943 Dec 01 20:49	19°  A37'36	
max. Earth dist.	5942 Dec 14 21:21	28°  A41'37	1.42740 AU		5943 Dec 08 08:37	0°  B	
	5942 Dec 15 16:29	0°  B			5943 Dec 29 12:19	0°  B	
evening rise	5942 Dec 21 09:21	9°  B08'29		evening max el	5944 Jan 05 04:32	7°  B34'47	23°22'14
	5943 Jan 04 04:09	0°  B		retrograde	5944 Jan 15 16:52	13°  B47'47	
evening max el	5943 Jan 22 13:05	23°  B54'53	22°02'41	evening set	5944 Jan 20 16:33	11°  B44'04	
retrograde	5943 Jan 31 22:31	29°  B29'41		asc. node	5944 Jan 21 03:11	11°  B20'43	
asc. node	5943 Feb 03 06:10	29°  B01'26		min. Earth dist.	5944 Jan 25 14:56	5°  B57'49	0.68134 AU
evening set	5943 Feb 05 10:04	27°  B41'25		inferior conj	5944 Jan 26 02:21	5°  B18'39	1°35'55
inferior conj	5943 Feb 10 18:13	21°  B21'28	2°17'21	minimum elong	5944 Jan 26 00:23	5°  B25'24	1°35'13
minimum elong	5943 Feb 10 15:53	21°  B29'38	2°16'40		5944 Jan 30 10:25	30°  R  B	
min. Earth dist.	5943 Feb 10 18:10	21°  B21'39	0.68158 AU	morning rise	5944 Jan 31 08:08	29°  B12'22	
morning rise	5943 Feb 15 21:31	15°  B10'30		direct	5944 Feb 04 14:12	27°  B31'35	
direct	5943 Feb 20 17:42	13°  B06'54			5944 Feb 10 08:34	0°  B	
morning max el	5943 Mar 02 08:47	18°  B47'33	22°28'34	morning max el	5944 Feb 13 00:43	2°  B23'48	21°05'39
desc. node	5943 Mar 11 03:57	29°  B14'48		desc. node	5944 Feb 26 00:58	18°  B53'22	
	5943 Mar 11 17:35	0°  H			5944 Mar 04 15:22	0°  H	
	5943 Apr 01 02:23	0°  Y		morning set	5944 Mar 14 15:34	15°  H20'08	
morning set	5943 Apr 05 03:35	6°  Y31'25		max. Earth dist.	5944 Mar 22 05:38	27°  H28'36	1.42590 AU
max. Earth dist.	5943 Apr 10 02:42	14°  Y46'57	1.40556 AU		5944 Mar 23 18:32	0°  Y	



superior conj	5944 Mar 29 09:57	9° $\Upsilon$ 27'33	-2°07'29	minimum elong	5945 Mar 09 17:22	19° $\Upsilon$ 08'36	2°07'37
minimum elong	5944 Mar 29 12:37	9° $\Upsilon$ 38'57	2°07'24		5945 Mar 16 07:27	0° $\Upsilon$	
evening rise	5944 Apr 09 23:12	29° $\Upsilon$ 47'22		evening rise	5945 Mar 23 02:59	11° $\Upsilon$ 32'09	
	5944 Apr 10 02:01	0° $\mathcal{B}$			5945 Apr 03 03:52	0° $\mathcal{B}$	
asc. node	5944 Apr 18 02:27	14° $\mathcal{B}$ 07'37		asc. node	5945 Apr 04 23:28	2° $\mathcal{B}$ 44'44	
evening max el	5944 Apr 26 15:05	25° $\mathcal{B}$ 59'43	18°06'50	evening max el	5945 Apr 10 04:02	9° $\mathcal{B}$ 15'57	18°11'20
retrograde	5944 May 03 06:31	29° $\mathcal{B}$ 23'14		retrograde	5945 Apr 16 13:44	12° $\mathcal{B}$ 39'02	
evening set	5944 May 05 21:22	28° $\mathcal{B}$ 51'44		evening set	5945 Apr 19 11:03	11° $\mathcal{B}$ 55'37	
inferior conj	5944 May 12 12:31	23° $\mathcal{B}$ 54'33	2°51'01	inferior conj	5945 Apr 25 13:31	6° $\mathcal{B}$ 39'05	3°20'55
minimum elong	5944 May 12 15:30	23° $\mathcal{B}$ 47'23	2°50'23	minimum elong	5945 Apr 25 15:06	6° $\mathcal{B}$ 34'46	3°20'43
min. Earth dist.	5944 May 15 17:34	20° $\mathcal{B}$ 50'52	0.60923 AU	min. Earth dist.	5945 Apr 28 06:00	3° $\mathcal{B}$ 44'28	0.63056 AU
morning rise	5944 May 19 07:28	17° $\mathcal{B}$ 59'39		morning rise	5945 May 01 17:53	0° $\mathcal{B}$ 31'16	
desc. node	5944 May 24 00:14	15° $\mathcal{B}$ 58'26			5945 May 02 11:04	30° $\mathcal{R}\Upsilon$	
direct	5944 May 25 23:31	15° $\mathcal{B}$ 47'02		direct	5945 May 08 13:47	27° $\Upsilon$ 54'32	
morning max el	5944 Jun 09 05:51	23° $\mathcal{B}$ 44'04	27°49'24	desc. node	5945 May 10 21:15	28° $\Upsilon$ 10'49	
	5944 Jun 14 20:52	0° $\Pi$			5945 May 15 05:54	0° $\mathcal{B}$	
	5944 Jul 04 08:37	0° $\mathcal{E}$		morning max el	5945 May 22 13:12	5° $\mathcal{B}$ 55'25	27°48'43
morning set	5944 Jul 11 23:10	14° $\mathcal{E}$ 50'57			5945 Jun 09 18:56	0° $\Pi$	
asc. node	5944 Jul 15 01:43	21° $\mathcal{E}$ 22'58		morning set	5945 Jun 25 21:42	28° $\Pi$ 54'57	
max. Earth dist.	5944 Jul 17 23:14	27° $\mathcal{E}$ 39'26	1.32011 AU		5945 Jun 26 10:36	0° $\mathcal{E}$	
				max. Earth dist.	5945 Jul 01 04:32	9° $\mathcal{E}$ 52'25	1.32596 AU
superior conj	5944 Jul 19 06:29	0° $\Omega$ 30'51	0°42'25	asc. node	5945 Jul 01 22:45	11° $\mathcal{E}$ 29'41	
minimum elong	5944 Jul 19 04:43	0° $\Omega$ 21'10	0°42'03				
	5944 Jul 19 00:52	0° $\Omega$		superior conj	5945 Jul 03 14:37	15° $\mathcal{E}$ 04'25	0°17'09
evening rise	5944 Jul 26 01:43	15° $\Omega$ 22'29		minimum elong	5945 Jul 03 13:48	15° $\mathcal{E}$ 00'01	0°16'57
	5944 Aug 02 07:36	0° $\mathcal{M}$		evening rise	5945 Jul 10 13:30	0° $\Omega$ 07'57	
desc. node	5944 Aug 19 23:30	26° $\mathcal{M}$ 06'27			5945 Jul 10 12:01	0° $\Omega$	
evening max el	5944 Aug 21 14:23	27° $\mathcal{M}$ 43'45	25°08'34		5945 Jul 27 04:26	0° $\mathcal{M}$	
	5944 Aug 24 04:13	0° $\mathcal{E}$		evening max el	5945 Aug 03 02:37	8° $\mathcal{M}$ 08'47	23°33'29
retrograde	5944 Sep 04 12:13	4° $\mathcal{E}$ 45'39		desc. node	5945 Aug 06 20:30	11° $\mathcal{M}$ 19'28	
evening set	5944 Sep 10 04:14	3° $\mathcal{E}$ 32'26		retrograde	5945 Aug 16 16:49	14° $\mathcal{M}$ 57'54	
min. Earth dist.	5944 Sep 15 01:53	0° $\mathcal{E}$ 50'38	0.57454 AU	evening set	5945 Aug 20 21:40	14° $\mathcal{M}$ 19'09	
	5944 Sep 16 08:27	30° $\mathcal{R}\mathcal{M}$		min. Earth dist.	5945 Aug 27 12:20	11° $\mathcal{M}$ 12'41	0.55818 AU
inferior conj	5944 Sep 18 00:59	28° $\mathcal{M}$ 51'22	-5°19'07	inferior conj	5945 Aug 29 13:37	9° $\mathcal{M}$ 59'23	-5°13'10
minimum elong	5944 Sep 18 03:21	28° $\mathcal{M}$ 47'24	5°18'59	minimum elong	5945 Aug 29 09:22	10° $\mathcal{M}$ 05'43	5°12'45
morning rise	5944 Sep 26 04:44	24° $\mathcal{M}$ 39'37		morning rise	5945 Sep 06 23:29	6° $\mathcal{M}$ 05'44	
direct	5944 Sep 28 17:22	24° $\mathcal{M}$ 20'54		direct	5945 Sep 09 20:06	5° $\mathcal{M}$ 45'35	
morning max el	5944 Oct 07 15:55	28° $\mathcal{M}$ 34'58	19°05'27	morning max el	5945 Sep 20 06:20	10° $\mathcal{M}$ 36'50	20°13'33
	5944 Oct 09 01:18	0° $\mathcal{E}$		asc. node	5945 Sep 27 22:01	20° $\mathcal{M}$ 12'21	
asc. node	5944 Oct 11 00:58	2° $\mathcal{E}$ 21'10			5945 Oct 03 13:33	0° $\mathcal{E}$	
morning set	5944 Oct 24 10:42	25° $\mathcal{E}$ 29'26		morning set	5945 Oct 08 16:08	10° $\mathcal{E}$ 06'18	
	5944 Oct 26 17:13	0° $\mathcal{M}$					
superior conj	5944 Nov 01 17:19	11° $\mathcal{M}$ 47'36	1°29'43	superior conj	5945 Oct 16 07:25	25° $\mathcal{E}$ 44'15	1°40'12
minimum elong	5944 Nov 01 20:06	12° $\mathcal{M}$ 00'59	1°29'31	minimum elong	5945 Oct 16 08:43	25° $\mathcal{E}$ 50'48	1°40'10
max. Earth dist.	5944 Nov 08 11:44	24° $\mathcal{M}$ 25'05	1.38684 AU		5945 Oct 18 10:39	0° $\mathcal{M}$	
	5944 Nov 11 15:21	0° $\mathcal{X}$		max. Earth dist.	5945 Oct 21 18:02	6° $\mathcal{M}$ 25'47	1.36630 AU
evening rise	5944 Nov 12 06:55	1° $\mathcal{X}$ 07'34		evening rise	5945 Oct 25 14:06	13° $\mathcal{M}$ 35'16	
desc. node	5944 Nov 15 22:43	7° $\mathcal{X}$ 19'55		desc. node	5945 Nov 02 19:45	27° $\mathcal{M}$ 51'47	
	5944 Nov 30 15:25	0° $\mathcal{B}$			5945 Nov 04 03:09	0° $\mathcal{X}$	
evening max el	5944 Dec 17 17:43	21° $\mathcal{B}$ 17'40	24°40'58		5945 Nov 25 12:57	0° $\mathcal{B}$	
retrograde	5944 Dec 29 07:21	28° $\mathcal{B}$ 02'18		evening max el	5945 Nov 30 06:20	5° $\mathcal{B}$ 02'02	25°51'53
evening set	5945 Jan 03 20:12	25° $\mathcal{B}$ 43'55		retrograde	5945 Dec 12 17:13	12° $\mathcal{B}$ 08'28	
asc. node	5945 Jan 07 00:12	22° $\mathcal{B}$ 21'53		evening set	5945 Dec 18 19:22	9° $\mathcal{B}$ 37'55	
min. Earth dist.	5945 Jan 08 10:25	20° $\mathcal{B}$ 31'49	0.67739 AU	min. Earth dist.	5945 Dec 23 02:27	5° $\mathcal{B}$ 00'31	0.66985 AU
inferior conj	5945 Jan 09 08:55	19° $\mathcal{B}$ 17'08	0°47'17	inferior conj	5945 Dec 24 12:08	3° $\mathcal{B}$ 14'31	-0°07'43
minimum elong	5945 Jan 09 07:48	19° $\mathcal{B}$ 20'50	0°46'51	minimum elong	5945 Dec 24 12:20	3° $\mathcal{B}$ 13'53	0°07'37
morning rise	5945 Jan 14 19:33	13° $\mathcal{B}$ 17'23		transit middle	5945 Dec 24 12:20	3° $\mathcal{B}$ 13'53	0°07'37
direct	5945 Jan 18 12:33	11° $\mathcal{B}$ 58'31		transit begin	5945 Dec 24 09:50	3° $\mathcal{B}$ 21'45	
morning max el	5945 Jan 26 00:27	16° $\mathcal{B}$ 12'00	19°54'29	transit end	5945 Dec 24 14:50	3° $\mathcal{B}$ 06'01	
	5945 Feb 05 20:22	0° $\approx$		asc. node	5945 Dec 24 21:14	2° $\mathcal{B}$ 45'55	
desc. node	5945 Feb 11 21:58	8° $\approx$ 56'03			5945 Dec 27 05:20	30° $\mathcal{R}\mathcal{X}$	
morning set	5945 Feb 21 12:13	23° $\approx$ 32'26		morning rise	5945 Dec 30 05:48	27° $\mathcal{X}$ 23'19	
	5945 Feb 25 16:14	0° $\mathcal{X}$		direct	5946 Jan 02 11:18	26° $\mathcal{X}$ 23'35	
max. Earth dist.	5945 Mar 04 16:14	11° $\mathcal{X}$ 01'23	1.44175 AU		5946 Jan 09 03:44	0° $\mathcal{B}$	
superior conj	5945 Mar 09 20:29	19° $\mathcal{X}$ 21'13	-2°07'42	morning max el	5946 Jan 09 07:55	0° $\mathcal{B}$ 10'18	18°58'05
				desc. node	5946 Jan 29 19:00	29° $\mathcal{B}$ 16'29	
					5946 Jan 30 06:10	0° $\approx$	

morning set	5946 Jan 31 18:13	2° $\approx$ 20'33		5947 Jan 23 01:30	0° $\approx$		
max. Earth dist.	5946 Feb 15 08:12	25° $\approx$ 08'19	1.45132 AU				
				superior conj	5947 Jan 27 11:55	6° $\approx$ 59'14	-1°11'03
superior conj	5946 Feb 17 08:28	28° $\approx$ 18'10	-1°48'22	minimum elong	5947 Jan 27 03:34	6° $\approx$ 26'25	1°10'01
minimum elong	5946 Feb 16 23:41	27° $\approx$ 43'34	1°47'40	max. Earth dist.	5947 Jan 29 02:59	9° $\approx$ 32'28	1.45365 AU
	5946 Feb 18 10:17	0° $\text{H}$			5947 Feb 11 04:56	0° $\text{H}$	
evening rise	5946 Mar 04 08:21	22° $\text{H}$ 19'23		evening rise	5947 Feb 12 14:46	2° $\text{H}$ 12'25	
	5946 Mar 09 01:22	0° $\text{Y}$		greatest brilliancy	5947 Feb 23 17:57	19° $\text{H}$ 33'05	-0.8m
asc. node	5946 Mar 22 20:30	20° $\text{Y}$ 42'42			5947 Mar 02 21:08	0° $\text{Y}$	
evening max el	5946 Mar 24 16:02	22° $\text{Y}$ 42'43	18°34'21	evening max el	5947 Mar 08 00:52	6° $\text{Y}$ 15'09	19°14'44
retrograde	5946 Mar 31 05:14	26° $\text{Y}$ 18'19		asc. node	5947 Mar 09 17:32	7° $\text{Y}$ 49'57	
evening set	5946 Apr 03 09:05	25° $\text{Y}$ 22'03		retrograde	5947 Mar 15 01:24	10° $\text{Y}$ 14'27	
inferior conj	5946 Apr 09 02:40	19° $\text{Y}$ 47'57	3°30'25	evening set	5947 Mar 18 12:31	9° $\text{Y}$ 04'29	
minimum elong	5946 Apr 09 02:43	19° $\text{Y}$ 47'48	3°30'24	inferior conj	5947 Mar 24 00:26	3° $\text{Y}$ 14'34	3°24'20
min. Earth dist.	5946 Apr 11 03:55	17° $\text{Y}$ 20'26	0.64905 AU	minimum elong	5947 Mar 23 23:14	3° $\text{Y}$ 18'25	3°24'13
morning rise	5946 Apr 14 19:41	13° $\text{Y}$ 34'09		min. Earth dist.	5947 Mar 25 10:23	1° $\text{Y}$ 25'08	0.66363 AU
direct	5946 Apr 21 12:03	10° $\text{Y}$ 45'41			5947 Mar 26 13:44	30° $\text{R}$ $\text{H}$	
desc. node	5946 Apr 27 18:16	12° $\text{Y}$ 45'27		morning rise	5947 Mar 29 09:37	26° $\text{H}$ 59'03	
morning max el	5946 May 04 23:09	18° $\text{Y}$ 39'57	27°13'06	direct	5947 Apr 04 16:57	24° $\text{H}$ 11'54	
	5946 May 14 12:49	0° $\text{8}$		desc. node	5947 Apr 14 15:18	29° $\text{H}$ 09'17	
	5946 Jun 02 18:02	0° $\text{II}$			5947 Apr 15 13:48	0° $\text{Y}$	
morning set	5946 Jun 09 11:10	12° $\text{II}$ 29'22		morning max el	5947 Apr 17 09:04	1° $\text{Y}$ 45'02	26°09'56
max. Earth dist.	5946 Jun 14 01:03	21° $\text{II}$ 37'07	1.33646 AU		5947 May 08 15:14	0° $\text{8}$	
				morning set	5947 May 23 11:54	25° $\text{8}$ 23'42	
superior conj	5946 Jun 17 17:59	29° $\text{II}$ 19'30	-0°11'04		5947 May 25 22:31	0° $\text{II}$	
minimum elong	5946 Jun 17 18:34	29° $\text{II}$ 22'34	0°10'58	max. Earth dist.	5947 May 27 10:20	2° $\text{II}$ 52'33	1.35169 AU
behind sun begin	5946 Jun 17 14:29	29° $\text{II}$ 01'01					
behind sun end	5946 Jun 17 22:39	29° $\text{II}$ 44'07		superior conj	5947 Jun 01 14:11	13° $\text{II}$ 09'30	-0°41'04
	5946 Jun 18 01:40	0° $\text{E}$		minimum elong	5947 Jun 01 16:29	13° $\text{II}$ 21'12	0°40'39
asc. node	5946 Jun 18 19:46	1° $\text{E}$ 35'54		asc. node	5947 Jun 05 16:49	21° $\text{II}$ 37'53	
evening rise	5946 Jun 25 00:27	14° $\text{E}$ 46'38		evening rise	5947 Jun 09 08:32	29° $\text{II}$ 12'43	
	5946 Jul 02 16:37	0° $\Omega$			5947 Jun 09 17:44	0° $\text{E}$	
evening max el	5946 Jul 15 17:46	18° $\Omega$ 30'23	21°56'41	evening max el	5947 Jun 27 19:26	29° $\text{E}$ 20'43	20°31'34
desc. node	5946 Jul 24 17:32	24° $\Omega$ 15'47			5947 Jun 28 11:56	0° $\Omega$	
retrograde	5946 Jul 28 10:00	24° $\Omega$ 47'41		retrograde	5947 Jul 08 22:22	4° $\Omega$ 48'22	
evening set	5946 Jul 31 04:31	24° $\Omega$ 30'30		evening set	5947 Jul 10 22:36	4° $\Omega$ 38'25	
inferior conj	5946 Aug 09 10:40	20° $\Omega$ 27'46	-4°15'18	desc. node	5947 Jul 11 14:33	4° $\Omega$ 30'56	
minimum elong	5946 Aug 09 01:47	20° $\Omega$ 40'15	4°13'07	inferior conj	5947 Jul 20 04:07	0° $\Omega$ 41'22	-2°32'02
min. Earth dist.	5946 Aug 08 22:07	20° $\Omega$ 45'23	0.54883 AU	minimum elong	5947 Jul 19 21:08	0° $\Omega$ 51'27	2°29'36
morning rise	5946 Aug 18 00:33	16° $\Omega$ 37'39			5947 Jul 21 08:46	30° $\text{R}$ $\text{E}$	
direct	5946 Aug 21 07:52	16° $\Omega$ 13'32		min. Earth dist.	5947 Jul 21 09:14	29° $\text{E}$ 59'19	0.54881 AU
morning max el	5946 Sep 02 08:31	21° $\Omega$ 51'52	21°42'01	morning rise	5947 Jul 28 18:55	26° $\text{E}$ 34'52	
	5946 Sep 09 06:39	0° $\text{np}$		direct	5947 Aug 01 17:38	26° $\text{E}$ 01'20	
asc. node	5946 Sep 14 19:03	8° $\text{np}$ 46'36			5947 Aug 12 03:06	0° $\Omega$	
morning set	5946 Sep 23 01:30	24° $\text{np}$ 53'15		morning max el	5947 Aug 15 01:09	2° $\Omega$ 27'47	23°24'06
	5946 Sep 25 11:49	0° $\underline{\Omega}$		asc. node	5947 Sep 01 16:07	27° $\Omega$ 53'28	
					5947 Sep 02 18:19	0° $\text{np}$	
superior conj	5946 Sep 30 06:56	10° $\underline{\Omega}$ 07'41	1°42'55	morning set	5947 Sep 07 12:52	9° $\text{np}$ 44'51	
minimum elong	5946 Sep 30 06:48	10° $\underline{\Omega}$ 06'58	1°42'55				
max. Earth dist.	5946 Oct 04 06:13	18° $\underline{\Omega}$ 17'49	1.34851 AU	superior conj	5947 Sep 14 12:46	24° $\text{np}$ 48'29	1°38'59
evening rise	5946 Oct 08 14:20	26° $\underline{\Omega}$ 49'45		minimum elong	5947 Sep 14 11:30	24° $\text{np}$ 41'36	1°38'55
	5946 Oct 10 06:33	0° $\text{ml}$			5947 Sep 16 23:07	0° $\underline{\Omega}$	
desc. node	5946 Oct 20 16:47	18° $\text{ml}$ 08'58		max. Earth dist.	5947 Sep 17 03:13	0° $\underline{\Omega}$ 21'39	1.33464 AU
	5946 Oct 28 11:30	0° $\text{J}$		evening rise	5947 Sep 22 03:31	10° $\underline{\Omega}$ 40'11	
evening max el	5946 Nov 12 19:10	18° $\text{J}$ 41'55	26°47'42		5947 Oct 02 14:51	0° $\text{ml}$	
retrograde	5946 Nov 25 21:48	25° $\text{J}$ 58'59		desc. node	5947 Oct 07 13:49	8° $\text{ml}$ 04'39	
evening set	5946 Dec 02 12:05	23° $\text{J}$ 21'07			5947 Oct 24 04:30	0° $\text{J}$	
min. Earth dist.	5946 Dec 06 12:45	19° $\text{J}$ 18'40	0.65873 AU	evening max el	5947 Oct 26 07:41	2° $\text{J}$ 07'37	27°21'08
inferior conj	5946 Dec 08 09:58	17° $\text{J}$ 06'23	-1°08'05	retrograde	5947 Nov 08 20:15	9° $\text{J}$ 25'52	
minimum elong	5946 Dec 08 11:54	17° $\text{J}$ 00'44	1°07'14	evening set	5947 Nov 15 19:55	6° $\text{J}$ 47'55	
asc. node	5946 Dec 11 18:17	13° $\text{J}$ 28'48		min. Earth dist.	5947 Nov 19 15:03	3° $\text{J}$ 19'25	0.64419 AU
morning rise	5946 Dec 14 12:39	11° $\text{J}$ 26'14		inferior conj	5947 Nov 22 00:03	0° $\text{J}$ 47'28	-2°12'10
direct	5946 Dec 17 08:39	10° $\text{J}$ 41'52		minimum elong	5947 Nov 22 03:58	0° $\text{J}$ 37'00	2°10'35
morning max el	5946 Dec 23 21:15	14° $\text{J}$ 12'53	18°17'56		5947 Nov 22 17:56	30° $\text{R}$ $\text{ml}$	
	5947 Jan 04 07:56	0° $\text{Z}$		morning rise	5947 Nov 28 13:22	25° $\text{ml}$ 21'23	
morning set	5947 Jan 12 03:24	12° $\text{Z}$ 32'36		asc. node	5947 Nov 28 15:21	25° $\text{ml}$ 19'18	
desc. node	5947 Jan 16 16:02	19° $\text{Z}$ 49'21		direct	5947 Dec 01 02:14	24° $\text{ml}$ 48'25	

morning max el	5947 Dec 07 13:46	28° $\mathbb{M}$ 13'08	17°54'47		5948 Dec 02 08:52	0° $\mathbb{X}$	
	5947 Dec 09 05:09	0° $\mathbb{X}$		morning set	5948 Dec 06 07:10	6° $\mathbb{X}$ 56'11	
morning set	5947 Dec 24 17:38	24° $\mathbb{X}$ 10'39					
	5947 Dec 28 04:42	0° $\mathbb{Z}$		superior conj	5948 Dec 17 18:16	26° $\mathbb{X}$ 50'10	0°18'55
desc. node	5948 Jan 03 13:04	10° $\mathbb{Z}$ 30'25		minimum elong	5948 Dec 17 20:04	26° $\mathbb{X}$ 57'47	0°18'40
					5948 Dec 19 15:40	0° $\mathbb{Z}$	
superior conj	5948 Jan 07 02:51	16° $\mathbb{Z}$ 18'16	-0°25'00	desc. node	5948 Dec 20 10:06	1° $\mathbb{Z}$ 16'27	
minimum elong	5948 Jan 06 23:55	16° $\mathbb{Z}$ 06'25	0°24'33	max. Earth dist.	5948 Dec 24 15:07	8° $\mathbb{Z}$ 09'11	1.43681 AU
max. Earth dist.	5948 Jan 11 22:14	23° $\mathbb{Z}$ 58'28	1.44863 AU	evening rise	5949 Jan 01 16:10	20° $\mathbb{Z}$ 52'03	
	5948 Jan 15 18:13	0° $\approx$			5949 Jan 07 15:30	0° $\approx$	
evening rise	5948 Jan 23 04:42	11° $\approx$ 31'16			5949 Jan 29 01:03	0° $\mathbb{H}$	
	5948 Feb 04 09:11	0° $\mathbb{H}$		evening max el	5949 Feb 01 03:23	3° $\mathbb{H}$ 25'43	21°19'03
greatest brilliancy	5948 Feb 06 23:06	3° $\mathbb{H}$ 48'28	-0.6m	retrograde	5949 Feb 09 21:30	8° $\mathbb{H}$ 36'51	
evening max el	5948 Feb 19 04:52	19° $\mathbb{H}$ 49'39	20°10'37	asc. node	5949 Feb 10 11:37	8° $\mathbb{H}$ 35'00	
asc. node	5948 Feb 24 14:34	23° $\mathbb{H}$ 52'03		evening set	5949 Feb 14 02:52	6° $\mathbb{H}$ 57'09	
retrograde	5948 Feb 26 23:30	24° $\mathbb{H}$ 21'43		inferior conj	5949 Feb 19 10:45	0° $\mathbb{H}$ 42'07	2°37'39
evening set	5948 Mar 01 19:03	22° $\mathbb{H}$ 57'14		minimum elong	5949 Feb 19 08:24	0° $\mathbb{H}$ 50'17	2°37'02
inferior conj	5948 Mar 07 03:54	16° $\mathbb{H}$ 53'28	3°06'00	min. Earth dist.	5949 Feb 19 17:30	0° $\mathbb{H}$ 18'46	0.68002 AU
minimum elong	5948 Mar 07 01:54	17° $\mathbb{H}$ 00'16	3°05'38		5949 Feb 19 22:55	30° $\mathbb{R}$ $\approx$	
min. Earth dist.	5948 Mar 07 23:34	15° $\mathbb{H}$ 46'56	0.67395 AU	morning rise	5949 Feb 24 13:47	24° $\approx$ 29'28	
morning rise	5948 Mar 12 08:32	10° $\mathbb{H}$ 38'38		direct	5949 Mar 01 18:16	22° $\approx$ 13'29	
direct	5948 Mar 18 03:18	8° $\mathbb{H}$ 03'35		morning max el	5949 Mar 12 03:00	28° $\approx$ 22'51	23°19'34
morning max el	5948 Mar 29 17:53	15° $\mathbb{H}$ 00'17	24°48'40		5949 Mar 13 16:09	0° $\mathbb{H}$	
desc. node	5948 Mar 31 12:20	16° $\mathbb{H}$ 51'52		desc. node	5949 Mar 18 09:22	5° $\mathbb{H}$ 31'33	
	5948 Apr 11 00:40	0° $\mathbb{Y}$			5949 Apr 04 17:58	0° $\mathbb{Y}$	
	5948 Apr 30 12:40	0° $\mathbb{B}$		morning set	5949 Apr 16 02:25	18° $\mathbb{Y}$ 13'19	
morning set	5948 May 04 18:55	7° $\mathbb{B}$ 23'09		max. Earth dist.	5949 Apr 20 05:19	25° $\mathbb{Y}$ 16'27	1.39294 AU
max. Earth dist.	5948 May 08 09:41	13° $\mathbb{B}$ 54'30	1.37107 AU		5949 Apr 22 21:41	0° $\mathbb{B}$	
superior conj	5948 May 15 00:03	26° $\mathbb{B}$ 25'10	-1°11'14	superior conj	5949 Apr 27 19:44	8° $\mathbb{B}$ 57'11	-1°38'54
minimum elong	5948 May 15 04:06	26° $\mathbb{B}$ 44'56	1°10'36	minimum elong	5949 Apr 28 00:54	9° $\mathbb{B}$ 21'12	1°38'19
	5948 May 16 19:46	0° $\mathbb{I}$		evening rise	5949 May 07 06:02	26° $\mathbb{B}$ 56'36	
asc. node	5948 May 22 13:51	11° $\mathbb{I}$ 30'45			5949 May 08 20:11	0° $\mathbb{I}$	
evening rise	5948 May 23 11:20	13° $\mathbb{I}$ 18'26		asc. node	5949 May 09 10:52	1° $\mathbb{I}$ 10'10	
	5948 Jun 01 08:25	0° $\mathbb{E}$		evening max el	5949 May 23 10:47	23° $\mathbb{I}$ 04'24	18°38'47
evening max el	5948 Jun 09 09:45	10° $\mathbb{E}$ 52'32	19°24'58	retrograde	5949 May 31 09:45	27° $\mathbb{I}$ 00'10	
retrograde	5948 Jun 18 19:10	15° $\mathbb{E}$ 28'41		evening set	5949 Jun 02 13:23	26° $\mathbb{I}$ 43'55	
evening set	5948 Jun 20 17:23	15° $\mathbb{E}$ 17'55		inferior conj	5949 Jun 10 08:24	22° $\mathbb{I}$ 18'52	1°09'07
desc. node	5948 Jun 27 11:34	12° $\mathbb{E}$ 22'07		minimum elong	5949 Jun 10 10:49	22° $\mathbb{I}$ 14'16	1°08'16
inferior conj	5948 Jun 29 08:18	11° $\mathbb{E}$ 11'07	-0°33'34	min. Earth dist.	5949 Jun 13 15:55	19° $\mathbb{I}$ 49'18	0.57511 AU
minimum elong	5948 Jun 29 06:49	11° $\mathbb{E}$ 13'32	0°33'01	desc. node	5949 Jun 14 08:36	19° $\mathbb{I}$ 19'47	
min. Earth dist.	5948 Jul 01 22:36	9° $\mathbb{E}$ 30'36	0.55822 AU	morning rise	5949 Jun 18 04:55	17° $\mathbb{I}$ 03'49	
morning rise	5948 Jul 07 17:32	6° $\mathbb{E}$ 32'25		direct	5949 Jun 23 21:26	15° $\mathbb{I}$ 43'11	
direct	5948 Jul 12 12:36	5° $\mathbb{E}$ 40'26		morning max el	5949 Jul 08 06:31	23° $\mathbb{I}$ 17'36	26°34'46
morning max el	5948 Jul 26 14:21	12° $\mathbb{E}$ 46'28	25°07'09		5949 Jul 14 07:05	0° $\mathbb{E}$	
	5948 Aug 08 23:05	0° $\mathbb{O}$			5949 Aug 01 20:57	0° $\mathbb{O}$	
asc. node	5948 Aug 18 13:09	17° $\mathbb{O}$ 24'16		asc. node	5949 Aug 05 10:10	7° $\mathbb{O}$ 11'58	
morning set	5948 Aug 22 00:33	24° $\mathbb{O}$ 36'11		morning set	5949 Aug 06 10:55	9° $\mathbb{O}$ 21'55	
	5948 Aug 24 12:46	0° $\mathbb{P}$					
				superior conj	5949 Aug 13 10:03	24° $\mathbb{O}$ 32'35	1°14'36
superior conj	5948 Aug 28 22:29	9° $\mathbb{P}$ 39'01	1°29'19	minimum elong	5949 Aug 13 07:45	24° $\mathbb{O}$ 19'56	1°14'14
minimum elong	5948 Aug 28 20:28	9° $\mathbb{P}$ 28'01	1°29'06	max. Earth dist.	5949 Aug 13 17:57	25° $\mathbb{O}$ 16'20	1.31968 AU
max. Earth dist.	5948 Aug 30 08:10	12° $\mathbb{P}$ 43'10	1.32502 AU		5949 Aug 15 21:25	0° $\mathbb{P}$	
evening rise	5948 Sep 05 02:08	24° $\mathbb{P}$ 56'33		evening rise	5949 Aug 20 07:14	9° $\mathbb{P}$ 30'03	
	5948 Sep 07 14:09	0° $\mathbb{A}$			5949 Aug 30 21:50	0° $\mathbb{A}$	
desc. node	5948 Sep 23 10:50	27° $\mathbb{A}$ 29'59		desc. node	5949 Sep 10 07:52	16° $\mathbb{A}$ 12'08	
	5948 Sep 25 04:07	0° $\mathbb{M}$		evening max el	5949 Sep 19 22:32	27° $\mathbb{A}$ 22'38	26°57'16
evening max el	5948 Oct 07 17:45	15° $\mathbb{M}$ 05'52	27°25'44		5949 Sep 22 23:15	0° $\mathbb{M}$	
retrograde	5948 Oct 21 11:51	22° $\mathbb{M}$ 20'30		retrograde	5949 Oct 03 19:49	4° $\mathbb{M}$ 33'02	
evening set	5948 Oct 28 15:46	19° $\mathbb{M}$ 52'01		evening set	5949 Oct 10 19:30	2° $\mathbb{M}$ 25'38	
min. Earth dist.	5948 Nov 01 07:22	16° $\mathbb{M}$ 53'17	0.62651 AU		5949 Oct 14 06:09	30° $\mathbb{R}$ $\mathbb{A}$	
inferior conj	5948 Nov 04 03:32	14° $\mathbb{M}$ 10'54	-3°17'00	min. Earth dist.	5949 Oct 14 12:45	29° $\mathbb{A}$ 46'47	0.60650 AU
minimum elong	5948 Nov 04 09:17	13° $\mathbb{M}$ 57'10	3°15'02	inferior conj	5949 Oct 17 17:03	27° $\mathbb{A}$ 07'07	-4°17'23
morning rise	5948 Nov 11 04:34	9° $\mathbb{M}$ 02'26		minimum elong	5949 Oct 17 23:37	26° $\mathbb{A}$ 53'20	4°15'43
direct	5948 Nov 13 12:57	8° $\mathbb{M}$ 37'15		morning rise	5949 Oct 25 05:49	22° $\mathbb{A}$ 19'43	
asc. node	5948 Nov 14 12:24	8° $\mathbb{M}$ 41'44		direct	5949 Oct 27 12:48	21° $\mathbb{A}$ 59'12	
morning max el	5948 Nov 20 06:30	12° $\mathbb{M}$ 04'06	17°49'23	asc. node	5949 Nov 01 09:27	23° $\mathbb{A}$ 36'08	

morning max el	5949 Nov 03 20:09	25° $\Omega$ 36'46	18°02'45	asc. node	5950 Oct 19 06:28	9° $\Omega$ 51'16	
	5949 Nov 07 13:17	0° $\mathbb{M}$			5950 Oct 31 22:39	0° $\mathbb{M}$	
morning set	5949 Nov 19 13:28	20° $\mathbb{M}$ 28'34		morning set	5950 Nov 03 07:32	4° $\mathbb{M}$ 33'50	
	5949 Nov 24 16:57	0° $\mathbb{A}$					
superior conj	5949 Nov 29 11:27	8° $\mathbb{A}$ 36'33	0°54'22	superior conj	5950 Nov 12 02:08	21° $\mathbb{M}$ 25'05	1°19'38
minimum elong	5949 Nov 29 15:10	8° $\mathbb{A}$ 53'00	0°53'54	minimum elong	5950 Nov 12 05:35	21° $\mathbb{M}$ 41'13	1°19'17
max. Earth dist.	5949 Dec 07 02:56	21° $\mathbb{A}$ 45'47	1.41956 AU	max. Earth dist.	5950 Nov 16 18:33	0° $\mathbb{A}$	
desc. node	5949 Dec 07 07:07	22° $\mathbb{A}$ 03'13		evening rise	5950 Nov 19 09:34	4° $\mathbb{A}$ 38'44	1.39912 AU
	5949 Dec 12 03:43	0° $\mathbb{B}$		desc. node	5950 Nov 23 12:58	11° $\mathbb{A}$ 44'06	
evening rise	5949 Dec 12 15:56	0° $\mathbb{B}$ 48'56			5950 Nov 24 04:07	12° $\mathbb{A}$ 47'26	
	5950 Jan 01 03:49	0° $\approx$			5950 Dec 05 00:27	0° $\mathbb{B}$	
evening max el	5950 Jan 14 20:49	17° $\approx$ 03'10	22°36'04	evening max el	5950 Dec 27 17:33	0° $\approx$	
retrograde	5950 Jan 24 17:41	22° $\approx$ 55'01		retrograde	5950 Dec 28 10:56	0° $\approx$ 44'00	23°56'08
asc. node	5950 Jan 28 08:39	21° $\approx$ 47'05		evening set	5951 Jan 08 10:40	7° $\approx$ 12'14	
evening set	5950 Jan 29 10:17	20° $\approx$ 59'56		asc. node	5951 Jan 13 15:46	5° $\approx$ 02'06	
inferior conj	5950 Feb 03 18:57	14° $\approx$ 36'56	2°00'42		5951 Jan 15 05:42	3° $\approx$ 30'09	
minimum elong	5950 Feb 03 16:42	14° $\approx$ 44'42	1°59'58		5951 Jan 18 01:38	30° $\mathbb{R}$ $\mathbb{B}$	
min. Earth dist.	5950 Feb 03 13:54	14° $\approx$ 54'26	0.68197 AU	min. Earth dist.	5951 Jan 18 10:30	29° $\mathbb{B}$ 30'06	0.68011 AU
morning rise	5950 Feb 08 23:01	8° $\approx$ 27'50		inferior conj	5951 Jan 19 02:38	28° $\mathbb{B}$ 35'17	1°16'07
direct	5950 Feb 13 12:59	6° $\approx$ 34'11		minimum elong	5951 Jan 19 00:59	28° $\mathbb{B}$ 40'56	1°15'30
morning max el	5950 Feb 22 15:33	11° $\approx$ 53'34	21°52'06	morning rise	5951 Jan 24 10:12	22° $\mathbb{B}$ 31'21	
desc. node	5950 Mar 05 06:23	24° $\approx$ 51'58		direct	5951 Jan 28 10:27	21° $\mathbb{B}$ 00'13	
	5950 Mar 08 22:40	0° $\mathbb{H}$		morning max el	5951 Feb 05 10:40	25° $\mathbb{B}$ 35'05	20°33'34
morning set	5950 Mar 27 05:52	27° $\mathbb{H}$ 44'12		desc. node	5951 Feb 09 09:18	0° $\approx$	
	5950 Mar 28 15:36	0° $\mathbb{Y}$			5951 Feb 20 03:24	14° $\approx$ 41'50	
max. Earth dist.	5950 Apr 02 04:05	7° $\mathbb{Y}$ 25'04	1.41459 AU	morning set	5951 Mar 02 08:46	0° $\mathbb{H}$	
				max. Earth dist.	5951 Mar 06 08:44	6° $\mathbb{H}$ 09'39	
superior conj	5950 Apr 09 20:33	20° $\mathbb{Y}$ 34'42	-2°00'10		5951 Mar 15 09:45	20° $\mathbb{H}$ 27'39	1.43329 AU
minimum elong	5950 Apr 10 01:02	20° $\mathbb{Y}$ 54'25	1°59'54		5951 Mar 21 05:34	0° $\mathbb{Y}$	
	5950 Apr 15 02:51	0° $\mathbb{B}$		superior conj	5951 Mar 21 21:50	1° $\mathbb{Y}$ 07'46	-2°09'45
evening rise	5950 Apr 20 13:04	9° $\mathbb{B}$ 58'22		minimum elong	5951 Mar 21 22:24	1° $\mathbb{Y}$ 10'07	2°09'46
asc. node	5950 Apr 26 07:53	20° $\mathbb{B}$ 31'03		evening rise	5951 Apr 03 04:06	22° $\mathbb{Y}$ 13'47	
	5950 May 02 02:32	0° $\mathbb{I}$			5951 Apr 07 14:17	0° $\mathbb{B}$	
evening max el	5950 May 06 19:12	5° $\mathbb{I}$ 48'51	18°12'52	asc. node	5951 Apr 13 04:55	9° $\mathbb{B}$ 26'38	
retrograde	5950 May 13 18:57	9° $\mathbb{I}$ 19'45		evening max el	5951 Apr 20 07:28	18° $\mathbb{B}$ 56'23	18°06'30
evening set	5950 May 16 05:41	8° $\mathbb{I}$ 54'37		retrograde	5951 Apr 26 19:18	22° $\mathbb{B}$ 17'58	
inferior conj	5950 May 23 06:00	4° $\mathbb{I}$ 09'19	2°22'22	evening set	5951 Apr 29 12:53	21° $\mathbb{B}$ 41'38	
minimum elong	5950 May 23 09:22	4° $\mathbb{I}$ 01'51	2°21'26	inferior conj	5951 May 05 22:11	16° $\mathbb{B}$ 36'23	3°06'33
min. Earth dist.	5950 May 26 15:21	1° $\mathbb{I}$ 10'36	0.59632 AU	minimum elong	5951 May 06 00:38	16° $\mathbb{B}$ 30'09	3°06'06
	5950 May 28 02:35	30° $\mathbb{R}$ $\mathbb{B}$		min. Earth dist.	5951 May 08 22:38	13° $\mathbb{B}$ 33'34	0.61852 AU
morning rise	5950 May 30 10:14	28° $\mathbb{B}$ 25'34		morning rise	5951 May 12 10:33	10° $\mathbb{B}$ 34'56	
desc. node	5950 Jun 01 05:37	27° $\mathbb{B}$ 30'10		direct	5951 May 19 05:23	8° $\mathbb{B}$ 10'18	
direct	5950 Jun 05 19:56	26° $\mathbb{B}$ 30'56		desc. node	5951 May 19 02:39	8° $\mathbb{B}$ 10'20	
	5950 Jun 15 01:20	0° $\mathbb{I}$		morning max el	5951 Jun 02 09:19	16° $\mathbb{B}$ 10'48	27°53'41
morning max el	5950 Jun 20 04:55	4° $\mathbb{I}$ 23'19	27°32'46		5951 Jun 13 17:36	0° $\mathbb{I}$	
	5950 Jul 09 02:04	0° $\mathbb{B}$			5951 Jul 01 17:14	0° $\mathbb{B}$	
morning set	5950 Jul 21 18:18	23° $\mathbb{B}$ 56'44		morning set	5951 Jul 05 20:41	8° $\mathbb{B}$ 13'36	
asc. node	5950 Jul 23 07:11	27° $\mathbb{B}$ 10'59		asc. node	5951 Jul 10 04:11	17° $\mathbb{B}$ 15'56	
	5950 Jul 24 14:44	0° $\mathbb{Q}$		max. Earth dist.	5951 Jul 11 13:12	20° $\mathbb{B}$ 13'50	1.32196 AU
max. Earth dist.	5950 Jul 28 04:56	7° $\mathbb{Q}$ 50'54	1.31861 AU				
superior conj	5950 Jul 28 21:41	9° $\mathbb{Q}$ 23'22	0°55'21	superior conj	5951 Jul 13 07:37	24° $\mathbb{B}$ 04'47	0°32'08
minimum elong	5950 Jul 28 19:36	9° $\mathbb{Q}$ 11'49	0°54'57	minimum elong	5951 Jul 13 06:12	23° $\mathbb{B}$ 57'02	0°31'48
evening rise	5950 Aug 04 16:31	24° $\mathbb{Q}$ 13'32			5951 Jul 16 00:26	0° $\mathbb{Q}$	
	5950 Aug 07 10:48	0° $\mathbb{P}$		evening rise	5951 Jul 20 03:54	8° $\mathbb{Q}$ 59'45	
	5950 Aug 25 02:25	0° $\mathbb{Q}$			5951 Jul 30 22:56	0° $\mathbb{P}$	
desc. node	5950 Aug 28 04:52	3° $\mathbb{Q}$ 53'38		evening max el	5951 Aug 14 10:21	19° $\mathbb{P}$ 32'52	24°29'31
evening max el	5950 Sep 01 19:56	8° $\mathbb{Q}$ 50'30	25°56'08	desc. node	5951 Aug 15 01:53	20° $\mathbb{P}$ 09'27	
retrograde	5950 Sep 15 18:57	15° $\mathbb{Q}$ 56'52		retrograde	5951 Aug 28 06:39	26° $\mathbb{P}$ 31'06	
evening set	5950 Sep 22 02:14	14° $\mathbb{Q}$ 22'00		evening set	5951 Sep 02 08:20	25° $\mathbb{P}$ 33'46	
min. Earth dist.	5950 Sep 26 08:31	11° $\mathbb{Q}$ 46'35	0.58575 AU	min. Earth dist.	5951 Sep 07 21:29	22° $\mathbb{P}$ 43'08	0.56688 AU
inferior conj	5950 Sep 29 13:07	9° $\mathbb{Q}$ 27'07	-5°04'03	inferior conj	5951 Sep 10 13:08	21° $\mathbb{P}$ 01'59	-5°22'23
minimum elong	5950 Sep 29 18:03	9° $\mathbb{Q}$ 18'06	5°03'22	minimum elong	5951 Sep 10 12:52	21° $\mathbb{P}$ 02'24	5°22'23
morning rise	5950 Oct 07 12:10	5° $\mathbb{Q}$ 02'36		morning rise	5951 Sep 18 19:45	16° $\mathbb{P}$ 58'42	
direct	5950 Oct 09 21:23	4° $\mathbb{Q}$ 44'03		direct	5951 Sep 21 11:15	16° $\mathbb{P}$ 39'41	
morning max el	5950 Oct 18 03:18	8° $\mathbb{Q}$ 41'59	18°36'20	morning max el	5951 Oct 01 00:28	21° $\mathbb{P}$ 08'46	19°31'42
				asc. node	5951 Oct 06 03:30	27° $\mathbb{P}$ 11'17	

	5951 Oct 08 01:06	0°♄		morning rise	5952 Aug 29 05:49	28°♄00'42	
morning set	5951 Oct 18 09:39	19°♄01'20		direct	5952 Sep 01 06:56	27°♄39'03	
	5951 Oct 23 20:28	0°♄			5952 Sep 08 18:39	0°♄	
				morning max el	5952 Sep 12 09:24	2°♄49'33	20°48'59
superior conj	5951 Oct 26 09:00	5°♄00'19	1°35'11	asc. node	5952 Sep 22 00:32	15°♄21'53	
minimum elong	5951 Oct 26 11:10	5°♄11'00	1°35'03		5952 Sep 29 21:20	0°♄	
max. Earth dist.	5951 Nov 01 14:30	16°♄53'31	1.37791 AU	morning set	5952 Oct 01 17:00	3°♄43'02	
evening rise	5951 Nov 05 08:29	23°♄40'10					
	5951 Nov 09 00:12	0°♄		superior conj	5952 Oct 09 03:29	19°♄09'06	1°42'14
desc. node	5951 Nov 11 01:08	3°♄25'11		minimum elong	5952 Oct 09 04:08	19°♄12'31	1°42'13
	5951 Nov 28 18:25	0°♄		max. Earth dist.	5952 Oct 13 23:03	28°♄48'44	1.35832 AU
evening max el	5951 Dec 10 23:52	14°♄28'57	25°12'34		5952 Oct 14 13:40	0°♄	
retrograde	5951 Dec 22 23:21	21°♄24'08		evening rise	5952 Oct 17 23:24	6°♄28'49	
evening set	5951 Dec 28 17:45	19°♄00'29		desc. node	5952 Oct 27 22:10	23°♄51'35	
min. Earth dist.	5952 Jan 02 04:57	14°♄02'47	0.67462 AU		5952 Oct 31 18:40	0°♄	
asc. node	5952 Jan 02 02:44	14°♄09'55		evening max el	5952 Nov 22 12:47	28°♄13'16	26°18'00
inferior conj	5952 Jan 03 08:04	12°♄34'29	0°24'42		5952 Nov 24 11:03	0°♄	
minimum elong	5952 Jan 03 07:28	12°♄36'29	0°24'28	retrograde	5952 Dec 05 06:51	5°♄24'40	
morning rise	5952 Jan 08 21:25	6°♄37'49		evening set	5952 Dec 11 14:26	2°♄50'28	
direct	5952 Jan 12 09:20	5°♄27'22			5952 Dec 14 11:22	30°♄	
morning max el	5952 Jan 19 13:46	9°♄28'06	19°28'28	min. Earth dist.	5952 Dec 15 18:48	28°♄27'59	0.66557 AU
greatest brilliancy	5952 Feb 01 15:03	26°♄44'46	-0.7m	inferior conj	5952 Dec 17 09:17	26°♄30'22	-0°32'44
	5952 Feb 03 19:08	0°♄		minimum elong	5952 Dec 17 10:11	26°♄27'39	0°32'19
desc. node	5952 Feb 07 00:25	4°♄53'14		asc. node	5952 Dec 18 23:48	24°♄35'10	
morning set	5952 Feb 13 06:19	14°♄28'49		morning rise	5952 Dec 23 06:33	20°♄43'28	
	5952 Feb 23 05:35	0°♄		direct	5952 Dec 26 07:52	19°♄50'35	
max. Earth dist.	5952 Feb 25 22:50	4°♄17'07	1.44670 AU	morning max el	5953 Jan 02 00:00	23°♄29'01	18°38'58
					5953 Jan 07 09:06	0°♄	
superior conj	5952 Feb 29 21:59	10°♄35'29	-2°02'00	morning set	5953 Jan 22 22:51	23°♄50'39	
minimum elong	5952 Feb 29 16:03	10°♄11'47	2°01'42	desc. node	5953 Jan 23 21:26	25°♄19'43	
	5952 Mar 12 19:16	0°♄			5953 Jan 26 20:33	0°♄	
evening rise	5952 Mar 14 22:43	3°♄34'43		max. Earth dist.	5953 Feb 07 17:02	18°♄36'13	1.45330 AU
asc. node	5952 Mar 30 01:58	27°♄48'59					
	5952 Mar 31 18:37	0°♄		superior conj	5953 Feb 08 03:59	19°♄19'09	-1°34'21
evening max el	5952 Apr 02 20:27	2°♄18'52	18°18'58	minimum elong	5953 Feb 07 18:28	18°♄41'51	1°33'22
retrograde	5952 Apr 09 06:27	5°♄45'22			5953 Feb 14 23:00	0°♄	
evening set	5952 Apr 12 06:35	4°♄56'29		evening rise	5953 Feb 23 18:04	13°♄58'07	
	5952 Apr 17 19:08	30°♄		greatest brilliancy	5953 Mar 03 18:35	26°♄46'46	-0.9m
inferior conj	5952 Apr 18 04:51	29°♄32'25	3°27'04		5953 Mar 05 19:38	0°♄	
minimum elong	5952 Apr 18 05:46	29°♄29'49	3°26'59	asc. node	5953 Mar 16 23:01	15°♄27'10	
min. Earth dist.	5952 Apr 20 15:02	26°♄47'37	0.63892 AU	evening max el	5953 Mar 17 07:23	15°♄48'45	18°49'27
morning rise	5952 Apr 24 04:00	23°♄21'42		retrograde	5953 Mar 24 00:20	19°♄32'55	
direct	5952 Apr 30 23:23	20°♄38'16		evening set	5953 Mar 27 07:16	18°♄30'43	
desc. node	5952 May 04 23:40	21°♄27'31		inferior conj	5953 Apr 01 22:04	12°♄49'27	3°29'28
morning max el	5952 May 14 17:54	28°♄37'09	27°37'22	minimum elong	5953 Apr 01 21:33	12°♄51'05	3°29'27
	5952 May 16 01:55	0°♄		min. Earth dist.	5953 Apr 03 16:37	10°♄37'34	0.65584 AU
	5952 Jun 06 13:33	0°♄		morning rise	5953 Apr 07 11:22	6°♄34'42	
morning set	5952 Jun 18 15:42	22°♄05'49		direct	5953 Apr 14 00:24	3°♄45'39	
	5952 Jun 22 13:09	0°♄		desc. node	5953 Apr 21 20:42	6°♄52'42	
max. Earth dist.	5952 Jun 23 15:05	2°♄15'12	1.32989 AU	morning max el	5953 Apr 27 04:07	11°♄31'55	26°49'02
asc. node	5952 Jun 26 01:13	7°♄22'57			5953 May 11 21:00	0°♄	
					5953 May 30 03:02	0°♄	
superior conj	5952 Jun 26 14:00	8°♄31'20	0°05'31	morning set	5953 Jun 02 00:14	5°♄24'19	
minimum elong	5952 Jun 26 13:43	8°♄29'51	0°05'25	max. Earth dist.	5953 Jun 06 07:12	13°♄47'51	1.34244 AU
behind sun begin	5952 Jun 26 08:38	8°♄02'38					
behind sun end	5952 Jun 26 18:48	8°♄57'06		superior conj	5953 Jun 10 14:38	22°♄36'30	-0°23'39
evening rise	5952 Jul 03 15:35	23°♄43'06		minimum elong	5953 Jun 10 15:54	22°♄43'10	0°23'25
	5952 Jul 06 16:00	0°♄		asc. node	5953 Jun 12 22:17	27°♄28'00	
evening max el	5952 Jul 25 22:52	29°♄52'07	22°51'34		5953 Jun 14 03:06	0°♄	
	5952 Jul 26 02:07	0°♄		evening rise	5953 Jun 18 01:35	8°♄17'26	
desc. node	5952 Jul 31 22:55	4°♄28'20			5953 Jun 29 15:25	0°♄	
retrograde	5952 Aug 08 05:28	6°♄29'29		evening max el	5953 Jul 07 17:45	10°♄22'36	21°18'24
evening set	5952 Aug 11 18:40	6°♄01'56		desc. node	5953 Jul 18 19:55	16°♄18'05	
min. Earth dist.	5952 Aug 19 07:09	1°♄40'50	0.55321 AU	retrograde	5953 Jul 19 19:15	16°♄20'21	
inferior conj	5952 Aug 20 18:03	1°♄50'45	-4°55'11	evening set	5953 Jul 22 03:51	16°♄07'28	
minimum elong	5952 Aug 20 11:12	2°♄00'37	4°54'05	inferior conj	5953 Jul 31 11:45	12°♄08'46	-3°35'35
	5952 Aug 24 02:19	30°♄		minimum elong	5953 Jul 31 02:52	12°♄21'13	3°32'57

min. Earth dist.	5953 Jul 31 16:56	12°01'29	0.54762 AU	min. Earth dist.	5954 Jul 13 04:59	21°08'24	0.55165 AU
morning rise	5953 Aug 09 02:39	8°01'40		morning rise	5954 Jul 19 21:30	18°06'46	
direct	5953 Aug 12 15:55	7°04'28		direct	5954 Jul 24 04:00	17°02'55	
morning max el	5953 Aug 25 06:53	13°04'02	22°24'34	morning max el	5954 Aug 06 21:25	24°08'11'59	24°08'56
	5953 Sep 06 12:35	0°00			5954 Aug 12 04:45	0°00	
asc. node	5953 Sep 08 21:34	4°00'11'24		asc. node	5954 Aug 26 18:36	23°01'29'20	
morning set	5953 Sep 16 03:27	18°00'33'13			5954 Aug 29 23:59	0°00	
	5953 Sep 21 12:26	0°00		morning set	5954 Aug 31 15:08	3°00'25'21	
superior conj	5953 Sep 23 06:02	3°00'41'20	1°42'01	superior conj	5954 Sep 07 13:46	18°00'27'19	1°35'33
minimum elong	5953 Sep 23 05:22	3°00'37'48	1°41'59	minimum elong	5954 Sep 07 12:08	18°00'18'24	1°35'25
max. Earth dist.	5953 Sep 26 15:08	10°00'45'42	1.34204 AU	max. Earth dist.	5954 Sep 09 15:35	22°00'56'12	1.32992 AU
evening rise	5953 Oct 01 05:37	20°00'00'02			5954 Sep 12 23:51	0°00	
	5953 Oct 06 13:20	0°00		evening rise	5954 Sep 14 23:09	4°00'02'22	
desc. node	5953 Oct 14 19:12	14°00'00'01'02			5954 Sep 29 06:45	0°00	
	5953 Oct 25 18:42	0°00		desc. node	5954 Oct 01 16:13	3°00'00'45'07	
evening max el	5953 Nov 05 01:35	11°00'48'40	27°05'03	evening max el	5954 Oct 18 13:04	25°00'03'18	27°26'54
retrograde	5953 Nov 18 08:46	19°00'40'57			5954 Oct 24 20:14	0°00	
evening set	5953 Nov 25 03:43	16°00'40'57		retrograde	5954 Nov 01 04:34	2°00'42'11'16	
min. Earth dist.	5953 Nov 29 01:49	12°00'40'21	0.65299 AU		5954 Nov 07 22:49	30°00'00'00	
inferior conj	5953 Dec 01 04:08	10°00'40'18'40	-1°34'54	evening set	5954 Nov 08 06:52	29°00'00'45'39	
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asc. node	5953 Dec 05 20:49	5°00'40'42'33		inferior conj	5954 Nov 14 14:01	23°00'00'52'44	-2°39'48
morning rise	5953 Dec 07 11:10	4°00'40'44'23		minimum elong	5954 Nov 14 18:46	23°00'00'40'36	2°38'00
direct	5953 Dec 10 03:55	4°00'40'05'18		morning rise	5954 Nov 21 08:16	18°00'00'34'01	
morning max el	5953 Dec 16 15:07	7°00'40'32'12	18°06'04	asc. node	5954 Nov 22 17:52	18°00'00'10'16	
	5954 Jan 01 00:22	0°00		direct	5954 Nov 23 18:47	18°00'00'04'55	
morning set	5954 Jan 03 20:52	4°00'40'41'33		morning max el	5954 Nov 30 08:08	21°00'00'29'38	17°50'19
desc. node	5954 Jan 10 18:29	15°00'40'57'02			5954 Dec 06 20:27	0°00	
superior conj	5954 Jan 18 10:05	28°00'40'51'45	-0°51'54	morning set	5954 Dec 16 21:46	16°00'40'50'19	
minimum elong	5954 Jan 18 03:46	27°00'40'45'48	0°51'02		5954 Dec 24 15:01	0°00	
	5954 Jan 19 13:44	0°00		desc. node	5954 Dec 28 15:30	6°00'40'30'39	
max. Earth dist.	5954 Jan 21 12:42	3°00'40'04'50	1.45244 AU	superior conj	5954 Dec 29 10:36	7°00'40'59'00	-0°05'39
evening rise	5954 Feb 03 16:20	23°00'40'33'59		minimum elong	5954 Dec 29 09:59	7°00'40'56'28	0°05'33
	5954 Feb 07 20:10	0°00		behind sun begin	5954 Dec 29 00:47	7°00'40'51'84	
greatest brilliancy	5954 Feb 16 16:52	13°00'40'31'45	-0.7m	behind sun end	5954 Dec 29 19:12	8°00'40'53'40'09	
evening max el	5954 Feb 28 14:15	29°00'40'22'09	19°36'37	max. Earth dist.	5955 Jan 04 06:43	17°00'40'24'30	1.44431 AU
	5954 Mar 01 05:29	0°00			5955 Jan 12 07:27	0°00	
asc. node	5954 Mar 03 20:04	2°00'40'08'44		evening rise	5955 Jan 14 03:10	2°00'40'48'27	
retrograde	5954 Mar 07 21:46	3°00'40'34'41			5955 Feb 01 09:35	0°00	
evening set	5954 Mar 11 12:17	2°00'40'18'34		evening max el	5955 Feb 11 15:51	12°00'40'57'21	20°38'22
	5954 Mar 14 00:36	30°00'40'00'00		asc. node	5955 Feb 18 17:05	17°00'40'51'39'15	
inferior conj	5954 Mar 16 22:36	26°00'40'22'10	3°17'53	retrograde	5955 Feb 19 20:09	17°00'40'51'46'00	
minimum elong	5954 Mar 16 21:00	26°00'40'27'26	3°17'40	evening set	5955 Feb 23 19:35	16°00'40'51'15'17	
min. Earth dist.	5954 Mar 18 02:14	24°00'40'50'53	0.66858 AU	inferior conj	5955 Mar 01 03:48	10°00'40'06'18	2°55'08
morning rise	5954 Mar 22 05:27	20°00'40'06'32		minimum elong	5955 Mar 01 01:35	10°00'40'13'53	2°54'39
direct	5954 Mar 28 07:36	17°00'40'23'42		min. Earth dist.	5955 Mar 01 17:51	9°00'40'18'06	0.67701 AU
desc. node	5954 Apr 08 17:45	23°00'40'53'25		morning rise	5955 Mar 06 07:22	3°00'40'51'57	
morning max el	5954 Apr 09 13:50	24°00'40'43'18	25°36'55	direct	5955 Mar 11 20:07	1°00'40'24'16	
	5954 Apr 14 08:15	0°00		morning max el	5955 Mar 22 22:34	8°00'40'02'34	24°11'04
	5954 May 05 07:56	0°00		desc. node	5955 Mar 26 14:47	12°00'40'03'06	
morning set	5954 May 15 18:07	17°00'40'55'18			5955 Apr 09 03:05	0°00	
max. Earth dist.	5954 May 19 12:03	24°00'40'55'25	1.35951 AU	morning set	5955 Apr 27 15:58	29°00'40'30'17	
	5954 May 22 03:24	0°00			5955 Apr 27 22:50	0°00	
superior conj	5954 May 25 06:49	6°00'40'12'42	-0°54'00	max. Earth dist.	5955 May 01 08:37	6°00'40'00'58	1.38017 AU
minimum elong	5954 May 25 09:53	6°00'40'12'28'04	0°53'28	superior conj	5955 May 08 11:13	19°00'40'51'43	-1°23'29
asc. node	5954 May 30 19:19	17°00'40'12'26'38		minimum elong	5955 May 08 15:52	19°00'40'51'34'00	1°22'49
evening rise	5954 Jun 02 07:44	22°00'40'12'35'50			5955 May 14 00:21	0°00	
	5954 Jun 06 00:31	0°00		evening rise	5955 May 17 07:31	6°00'40'12'31'18	
evening max el	5954 Jun 20 00:41	21°00'40'29'29	20°00'43	asc. node	5955 May 17 16:20	7°00'40'12'14'46	
retrograde	5954 Jun 30 10:03	26°00'40'25'11			5955 May 30 21:18	0°00	
evening set	5954 Jul 02 07:40	26°00'40'25'41		evening max el	5955 Jun 02 20:02	3°00'40'20'01	19°02'50
desc. node	5954 Jul 05 16:57	25°00'40'26'05		retrograde	5955 Jun 11 13:37	7°00'40'23'02	
inferior conj	5954 Jul 11 08:10	22°00'40'25'50	-1°41'30	evening set	5955 Jun 13 13:35	7°00'40'24'30	
minimum elong	5954 Jul 11 03:27	22°00'40'32'57	1°39'45	inferior conj	5955 Jun 21 20:16	3°00'40'10'58	0°13'08



































































































































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transit middle	5955 Jun 21 20:48	3°♄10'03	0°12'55	retrograde	5956 May 23 12:09	19°♄30'11	
transit begin	5955 Jun 21 18:34	3°♄13'56		evening set	5956 May 25 18:56	19°♄10'24	
transit end	5955 Jun 21 23:03	3°♄06'09		inferior conj	5956 Jun 02 05:39	14°♄36'51	1°43'58
desc. node	5955 Jun 22 13:59	2°♄40'14		minimum elong	5956 Jun 02 08:48	14°♄30'29	1°42'57
min. Earth dist.	5955 Jun 24 20:11	1°♄07'24	0.56464 AU	min. Earth dist.	5956 Jun 05 15:42	11°♄52'03	0.58391 AU
	5955 Jun 26 14:39	30°♄♄		desc. node	5956 Jun 08 11:01	9°♄54'39	
morning rise	5955 Jun 30 00:46	28°♄16'09		morning rise	5956 Jun 09 19:29	9°♄08'40	
direct	5955 Jul 05 05:14	27°♄12'50		direct	5956 Jun 15 20:26	7°♄33'29	
	5955 Jul 13 18:39	0°♄		morning max el	5956 Jun 30 05:40	15°♄16'08	27°03'32
morning max el	5955 Jul 19 11:18	4°♄33'12	25°47'10		5956 Jul 12 03:38	0°♄	
	5955 Aug 06 19:29	0°♄			5956 Jul 29 01:56	0°♄	
asc. node	5955 Aug 13 15:38	13°♄08'06		morning set	5956 Jul 30 11:43	2°♄56'05	
morning set	5955 Aug 16 02:25	18°♄14'45		asc. node	5956 Jul 30 12:39	3°♄00'59	
	5955 Aug 21 12:12	0°♄					
				superior conj	5956 Aug 06 12:18	18°♄12'55	1°06'57
superior conj	5955 Aug 23 00:30	3°♄20'01	1°23'39	minimum elong	5956 Aug 06 10:02	18°♄00'23	1°06'34
minimum elong	5955 Aug 22 22:19	3°♄08'00	1°23'23	max. Earth dist.	5956 Aug 06 09:30	17°♄57'28	1.31876 AU
max. Earth dist.	5955 Aug 23 22:47	5°♄22'36	1.32220 AU		5956 Aug 11 21:13	0°♄	
evening rise	5955 Aug 30 00:50	18°♄27'01		evening rise	5956 Aug 13 08:00	3°♄05'40	
	5955 Sep 04 19:59	0°♄			5956 Aug 27 16:55	0°♄	
desc. node	5955 Sep 18 13:13	22°♄53'38		desc. node	5956 Sep 04 10:14	11°♄12'19	
	5955 Sep 23 20:13	0°♄		evening max el	5956 Sep 11 23:16	19°♄42'15	26°35'05
evening max el	5955 Sep 30 21:11	7°♄45'02	27°17'49	retrograde	5956 Sep 25 21:30	26°♄50'14	
retrograde	5955 Oct 14 17:16	14°♄58'19		evening set	5956 Oct 02 15:45	24°♄55'53	
evening set	5955 Oct 21 20:23	12°♄37'29		min. Earth dist.	5956 Oct 06 13:00	22°♄20'32	0.59761 AU
min. Earth dist.	5955 Oct 25 11:48	9°♄48'30	0.61816 AU	inferior conj	5956 Oct 09 18:28	19°♄47'35	-4°39'39
inferior conj	5955 Oct 28 11:57	7°♄05'21	-3°43'39	minimum elong	5956 Oct 10 00:44	19°♄35'10	4°38'21
minimum elong	5955 Oct 28 18:14	6°♄51'04	3°41'42	morning rise	5956 Oct 17 11:50	15°♄09'26	
morning rise	5955 Nov 04 18:02	2°♄05'22		direct	5956 Oct 19 19:20	14°♄49'59	
direct	5955 Nov 07 01:16	1°♄42'38		asc. node	5956 Oct 26 11:56	17°♄42'17	
asc. node	5955 Nov 09 14:54	2°♄11'57		morning max el	5956 Oct 27 11:08	18°♄35'10	18°14'27
morning max el	5955 Nov 13 23:54	5°♄13'23	17°52'39		5956 Nov 04 18:07	0°♄	
morning set	5955 Nov 29 19:04	29°♄57'16		morning set	5956 Nov 12 06:57	13°♄45'33	
	5955 Nov 29 19:40	0°♄			5956 Nov 20 23:10	0°♄	
superior conj	5955 Dec 10 13:09	19°♄02'41	0°35'10	superior conj	5956 Nov 21 16:07	1°♄17'12	1°06'20
minimum elong	5955 Dec 10 16:07	19°♄15'25	0°34'46	minimum elong	5956 Nov 21 19:55	1°♄34'25	1°05'54
desc. node	5955 Dec 15 12:30	27°♄27'03		max. Earth dist.	5956 Nov 29 06:57	14°♄40'24	1.41112 AU
	5955 Dec 17 01:31	0°♄		desc. node	5956 Dec 01 09:29	18°♄13'10	
max. Earth dist.	5955 Dec 17 21:07	1°♄20'19	1.42999 AU	evening rise	5956 Dec 04 02:26	22°♄41'00	
evening rise	5955 Dec 24 18:08	12°♄20'14			5956 Dec 08 16:09	0°♄	
	5956 Jan 05 09:19	0°♄			5956 Dec 29 10:24	0°♄	
evening max el	5956 Jan 25 12:06	26°♄33'57	21°51'12	evening max el	5957 Jan 07 04:04	10°♄13'28	23°10'12
	5956 Jan 29 10:24	0°♄		retrograde	5957 Jan 17 12:18	16°♄20'58	
retrograde	5956 Feb 03 17:29	2°♄02'30		evening set	5957 Jan 22 10:10	14°♄19'24	
asc. node	5956 Feb 05 14:07	1°♄44'15		asc. node	5957 Jan 22 11:09	14°♄17'19	
evening set	5956 Feb 08 03:23	0°♄16'30		inferior conj	5957 Jan 27 19:37	7°♄54'32	1°42'42
	5956 Feb 08 11:14	30°♄♄		minimum elong	5957 Jan 27 17:34	8°♄01'37	1°41'59
inferior conj	5956 Feb 13 11:25	23°♄57'50	2°23'00	min. Earth dist.	5957 Jan 27 09:50	8°♄28'16	0.68165 AU
minimum elong	5956 Feb 13 09:04	24°♄06'03	2°22'18	morning rise	5957 Feb 02 00:53	1°♄47'34	
min. Earth dist.	5956 Feb 13 13:08	23°♄51'55	0.68130 AU	direct	5957 Feb 06 09:00	0°♄03'29	
morning rise	5956 Feb 18 14:33	17°♄46'25		morning max el	5957 Feb 14 23:27	5°♄02'16	21°17'21
direct	5956 Feb 23 12:56	15°♄39'26		desc. node	5957 Feb 27 08:48	20°♄35'46	
morning max el	5956 Mar 04 08:29	21°♄27'25	22°41'39		5957 Mar 05 20:49	0°♄	
	5956 Mar 11 16:43	0°♄		morning set	5957 Mar 18 03:32	18°♄45'52	
desc. node	5956 Mar 12 11:48	1°♄01'40			5957 Mar 25 03:16	0°♄	
	5956 Apr 01 09:53	0°♄		max. Earth dist.	5957 Mar 25 06:29	0°♄13'12	1.42313 AU
morning set	5956 Apr 07 11:49	9°♄47'08					
max. Earth dist.	5956 Apr 12 04:31	17°♄39'18	1.40236 AU	superior conj	5957 Apr 01 14:51	12°♄33'49	-2°06'00
	5956 Apr 19 05:18	0°♄		minimum elong	5957 Apr 01 18:07	12°♄47'52	2°05'53
					5957 Apr 11 11:28	0°♄	
superior conj	5956 Apr 19 23:31	1°♄22'25	-1°49'00	evening rise	5957 Apr 12 22:31	2°♄38'27	
minimum elong	5956 Apr 20 04:42	1°♄45'58	1°48'30	asc. node	5957 Apr 20 10:23	15°♄58'05	
evening rise	5956 Apr 29 21:43	19°♄55'05		evening max el	5957 Apr 29 11:13	28°♄42'50	18°07'44
asc. node	5956 May 03 13:21	26°♄47'04			5957 Apr 30 21:54	0°♄	
	5956 May 05 07:28	0°♄		retrograde	5957 May 06 04:27	2°♄07'52	





































































































































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	5957 May 11 16:10	30° $\mathcal{R}$ $\mathcal{B}$		evening max el	5958 Apr 13 00:06	11° $\mathcal{B}$ 57'17	18°09'30
inferior conj	5957 May 15 11:39	26° $\mathcal{B}$ 43'47	2°44'21	retrograde	5958 Apr 19 10:08	15° $\mathcal{B}$ 19'40	
minimum elong	5957 May 15 14:46	26° $\mathcal{B}$ 36'25	2°43'37	evening set	5958 Apr 22 06:26	14° $\mathcal{B}$ 38'12	
min. Earth dist.	5957 May 18 18:01	23° $\mathcal{B}$ 40'40	0.60591 AU	inferior conj	5958 Apr 28 10:33	9° $\mathcal{B}$ 24'34	3°17'46
morning rise	5957 May 22 08:57	20° $\mathcal{B}$ 51'23		minimum elong	5958 Apr 28 12:22	9° $\mathcal{B}$ 19'41	3°17'31
desc. node	5957 May 26 08:04	19° $\mathcal{B}$ 03'41		min. Earth dist.	5958 May 01 05:12	6° $\mathcal{B}$ 27'08	0.62748 AU
direct	5957 May 28 23:33	18° $\mathcal{B}$ 43'21		morning rise	5958 May 04 16:52	3° $\mathcal{B}$ 18'02	
morning max el	5957 Jun 12 06:46	26° $\mathcal{B}$ 39'16	27°46'19	direct	5958 May 11 12:42	0° $\mathcal{B}$ 44'04	
	5957 Jun 15 10:25	0° $\Pi$		desc. node	5958 May 13 05:06	0° $\mathcal{B}$ 52'41	
	5957 Jul 05 17:34	0° $\mathcal{B}$		morning max el	5958 May 25 13:35	8° $\mathcal{B}$ 45'30	27°51'11
morning set	5957 Jul 14 17:15	17° $\mathcal{B}$ 23'57			5958 Jun 10 23:14	0° $\Pi$	
asc. node	5957 Jul 17 09:39	23° $\mathcal{B}$ 02'54			5958 Jun 27 22:33	0° $\mathcal{B}$	
	5957 Jul 20 14:39	0° $\Omega$		morning set	5958 Jun 28 16:55	1° $\mathcal{B}$ 32'11	
max. Earth dist.	5957 Jul 20 20:02	0° $\Omega$ 29'32	1.31958 AU	max. Earth dist.	5958 Jul 04 02:18	12° $\mathcal{B}$ 46'04	1.32477 AU
				asc. node	5958 Jul 04 06:41	13° $\mathcal{B}$ 09'37	
superior conj	5957 Jul 21 23:26	3° $\Omega$ 00'09	0°45'57	superior conj	5958 Jul 06 08:09	17° $\mathcal{B}$ 36'28	0°21'14
minimum elong	5957 Jul 21 21:34	2° $\Omega$ 49'53	0°45'34	minimum elong	5958 Jul 06 07:10	17° $\mathcal{B}$ 31'06	0°20'58
evening rise	5957 Jul 28 18:27	17° $\Omega$ 51'10			5958 Jul 12 00:52	0° $\Omega$	
	5957 Aug 03 17:13	0° $\mathcal{M}$		evening rise	5958 Jul 13 06:15	2° $\Omega$ 37'27	
desc. node	5957 Aug 22 07:16	28° $\mathcal{M}$ 20'41			5958 Jul 28 02:08	0° $\mathcal{M}$	
	5957 Aug 23 21:21	0° $\mathcal{B}$		evening max el	5958 Aug 06 05:58	11° $\mathcal{M}$ 17'44	23°48'09
evening max el	5957 Aug 24 17:27	0° $\mathcal{B}$ 49'08	25°21'36	desc. node	5958 Aug 09 04:19	13° $\mathcal{M}$ 51'32	
retrograde	5957 Sep 07 15:39	7° $\mathcal{B}$ 52'24		retrograde	5958 Aug 19 22:16	18° $\mathcal{M}$ 09'59	
evening set	5957 Sep 13 12:08	6° $\mathcal{B}$ 33'24		evening set	5958 Aug 24 08:36	17° $\mathcal{M}$ 26'45	
min. Earth dist.	5957 Sep 18 05:06	3° $\mathcal{B}$ 54'00	0.57733 AU	min. Earth dist.	5958 Aug 30 16:10	14° $\mathcal{M}$ 24'45	0.56024 AU
inferior conj	5957 Sep 21 06:11	1° $\mathcal{B}$ 48'54	-5°16'22	inferior conj	5958 Sep 01 21:41	13° $\mathcal{M}$ 03'50	-5°17'16
minimum elong	5957 Sep 21 09:20	1° $\mathcal{B}$ 43'28	5°16'06	minimum elong	5958 Sep 01 18:29	13° $\mathcal{M}$ 08'42	5°17'02
	5957 Sep 24 00:04	30° $\mathcal{R}$ $\mathcal{M}$		morning rise	5958 Sep 10 06:48	9° $\mathcal{M}$ 08'06	
morning rise	5957 Sep 29 08:49	27° $\mathcal{M}$ 34'03		direct	5958 Sep 13 01:55	8° $\mathcal{M}$ 48'22	
direct	5957 Oct 01 20:28	27° $\mathcal{M}$ 15'26		morning max el	5958 Sep 23 06:40	13° $\mathcal{M}$ 33'35	20°02'03
	5957 Oct 08 23:07	0° $\mathcal{B}$		asc. node	5958 Sep 30 06:01	22° $\mathcal{M}$ 10'02	
morning max el	5957 Oct 10 14:24	1° $\mathcal{B}$ 24'51	18°57'15		5958 Oct 04 22:12	0° $\mathcal{B}$	
asc. node	5957 Oct 13 08:59	4° $\mathcal{B}$ 26'40		morning set	5958 Oct 11 09:31	12° $\mathcal{B}$ 35'57	
morning set	5957 Oct 27 04:52	28° $\mathcal{B}$ 01'27					
	5957 Oct 28 04:54	0° $\mathcal{M}$		superior conj	5958 Oct 19 02:44	28° $\mathcal{B}$ 18'53	1°39'08
superior conj	5957 Nov 04 14:21	14° $\mathcal{M}$ 27'25	1°27'21	minimum elong	5958 Oct 19 04:15	28° $\mathcal{B}$ 26'33	1°39'04
minimum elong	5957 Nov 04 17:19	14° $\mathcal{M}$ 41'38	1°27'06		5958 Oct 19 22:59	0° $\mathcal{M}$	
max. Earth dist.	5957 Nov 11 12:46	27° $\mathcal{M}$ 17'24	1.39001 AU	max. Earth dist.	5958 Oct 24 18:20	9° $\mathcal{M}$ 19'59	1.36924 AU
	5957 Nov 13 01:28	0° $\mathcal{X}$		evening rise	5958 Oct 28 13:30	16° $\mathcal{M}$ 21'46	
evening rise	5957 Nov 15 09:13	4° $\mathcal{X}$ 02'05		desc. node	5958 Nov 05 03:31	29° $\mathcal{M}$ 28'13	
desc. node	5957 Nov 18 06:30	8° $\mathcal{X}$ 54'52			5958 Nov 05 11:14	0° $\mathcal{X}$	
	5957 Dec 01 19:35	0° $\mathcal{B}$			5958 Nov 26 07:22	0° $\mathcal{B}$	
evening max el	5957 Dec 20 17:23	23° $\mathcal{B}$ 55'43	24°29'29	evening max el	5958 Dec 03 05:59	7° $\mathcal{B}$ 39'57	25°42'06
	5957 Dec 29 01:47	0° $\approx$		retrograde	5958 Dec 15 14:12	14° $\mathcal{B}$ 44'07	
retrograde	5958 Jan 01 03:30	0° $\approx$ 36'31		evening set	5958 Dec 21 14:20	12° $\mathcal{B}$ 15'13	
	5958 Jan 04 00:19	30° $\mathcal{R}$ $\mathcal{B}$		min. Earth dist.	5958 Dec 25 22:26	7° $\mathcal{B}$ 32'29	0.67119 AU
evening set	5958 Jan 06 14:22	28° $\mathcal{B}$ 20'05		inferior conj	5958 Dec 27 06:26	5° $\mathcal{B}$ 50'51	0°00'58
asc. node	5958 Jan 09 08:13	25° $\mathcal{B}$ 28'25		minimum elong	5958 Dec 27 06:24	5° $\mathcal{B}$ 50'56	0°01'00
min. Earth dist.	5958 Jan 11 05:40	23° $\mathcal{B}$ 02'52	0.67823 AU	transit middle	5958 Dec 27 06:24	5° $\mathcal{B}$ 50'56	0°01'00
inferior conj	5958 Jan 12 02:33	21° $\mathcal{B}$ 53'05	0°55'05	transit begin	5958 Dec 27 03:35	5° $\mathcal{B}$ 59'54	
minimum elong	5958 Jan 12 01:17	21° $\mathcal{B}$ 57'20	0°54'37	transit end	5958 Dec 27 09:13	5° $\mathcal{B}$ 42'00	
morning rise	5958 Jan 17 12:20	15° $\mathcal{B}$ 52'16		asc. node	5958 Dec 27 05:17	5° $\mathcal{B}$ 54'29	
direct	5958 Jan 21 07:08	14° $\mathcal{B}$ 30'22		morning rise	5959 Jan 01 22:55	29° $\mathcal{X}$ 58'07	
morning max el	5958 Jan 28 22:03	18° $\mathcal{B}$ 49'01	20°04'08		5959 Jan 01 21:43	30° $\mathcal{R}$ $\mathcal{X}$	
	5958 Feb 06 22:38	0° $\approx$		direct	5959 Jan 05 05:58	28° $\mathcal{X}$ 55'47	
desc. node	5958 Feb 14 05:49	10° $\approx$ 35'12			5959 Jan 08 17:56	0° $\mathcal{B}$	
morning set	5958 Feb 25 01:03	26° $\approx$ 59'24		morning max el	5959 Jan 12 04:27	2° $\mathcal{B}$ 45'54	19°05'24
	5958 Feb 26 23:44	0° $\mathcal{X}$		greatest brilliancy	5959 Jan 26 05:15	21° $\mathcal{B}$ 48'01	-0.8m
max. Earth dist.	5958 Mar 07 15:51	13° $\mathcal{X}$ 38'32	1.43973 AU		5959 Jan 31 13:07	0° $\approx$	
				desc. node	5959 Feb 01 02:49	0° $\approx$ 53'06	
superior conj	5958 Mar 13 05:13	22° $\mathcal{X}$ 37'32	-2°08'51	morning set	5959 Feb 04 04:07	5° $\approx$ 37'39	
minimum elong	5958 Mar 13 03:08	22° $\mathcal{X}$ 28'59	2°08'50	max. Earth dist.	5959 Feb 18 06:55	27° $\approx$ 40'24	1.45032 AU
	5958 Mar 17 16:16	0° $\mathcal{Y}$			5959 Feb 19 18:22	0° $\mathcal{X}$	
evening rise	5958 Mar 26 05:23	14° $\mathcal{Y}$ 31'39		superior conj	5959 Feb 20 19:59	1° $\mathcal{X}$ 41'11	-1°52'36
	5958 Apr 04 07:51	0° $\mathcal{B}$					



minimum elong	5959 Feb 20 11:47	1° $\text{K}$ 08'44	1°51'59		5960 Feb 12 12:26	0° $\text{K}$	
evening rise	5959 Mar 07 14:12	25° $\text{K}$ 27'13		evening rise	5960 Feb 15 23:51	5° $\text{K}$ 27'42	
	5959 Mar 10 08:40	0° $\text{Y}$		greatest brilliancy	5960 Feb 26 09:18	21° $\text{K}$ 45'16	-0.8m
asc. node	5959 Mar 25 04:30	22° $\text{Y}$ 45'22			5960 Mar 02 21:06	0° $\text{Y}$	
evening max el	5959 Mar 27 12:26	25° $\text{Y}$ 22'57	18°29'51	evening max el	5960 Mar 09 21:54	8° $\text{Y}$ 54'57	19°07'41
retrograde	5959 Apr 03 00:35	28° $\text{Y}$ 55'51		asc. node	5960 Mar 11 01:33	10° $\text{Y}$ 01'13	
evening set	5959 Apr 06 03:26	28° $\text{Y}$ 01'34		retrograde	5960 Mar 16 20:12	12° $\text{Y}$ 49'49	
inferior conj	5959 Apr 11 22:08	22° $\text{Y}$ 30'08	3°30'01	evening set	5960 Mar 20 06:13	11° $\text{Y}$ 41'51	
minimum elong	5959 Apr 11 22:25	22° $\text{Y}$ 29'20	3°30'01	inferior conj	5960 Mar 25 18:49	5° $\text{Y}$ 54'12	3°26'04
min. Earth dist.	5959 Apr 14 01:46	19° $\text{Y}$ 57'37	0.64651 AU	minimum elong	5960 Mar 25 17:47	5° $\text{Y}$ 57'30	3°25'59
morning rise	5959 Apr 17 16:38	16° $\text{Y}$ 16'59		min. Earth dist.	5960 Mar 27 06:58	3° $\text{Y}$ 58'45	0.66178 AU
direct	5959 Apr 24 09:59	13° $\text{Y}$ 29'16			5960 Mar 30 19:44	30° $\text{R}$ $\text{K}$	
desc. node	5959 Apr 30 02:08	15° $\text{Y}$ 07'51		morning rise	5960 Mar 31 04:57	29° $\text{K}$ 38'52	
morning max el	5959 May 07 23:13	21° $\text{Y}$ 25'25	27°20'21	direct	5960 Apr 06 13:57	26° $\text{K}$ 50'50	
	5959 May 15 10:05	0° $\text{B}$			5960 Apr 14 08:04	0° $\text{Y}$	
	5959 Jun 04 03:03	0° $\text{II}$		desc. node	5960 Apr 15 23:09	1° $\text{Y}$ 17'02	
morning set	5959 Jun 12 07:55	15° $\text{II}$ 11'30		morning max el	5960 Apr 19 09:10	4° $\text{Y}$ 27'39	26°20'40
max. Earth dist.	5959 Jun 17 00:14	24° $\text{II}$ 34'53	1.33459 AU		5960 May 08 20:48	0° $\text{B}$	
	5959 Jun 19 14:39	0° $\text{B}$		morning set	5960 May 25 10:46	28° $\text{B}$ 11'54	
					5960 May 26 09:44	0° $\text{II}$	
superior conj	5959 Jun 20 12:22	1° $\text{B}$ 54'44	-0°06'36	max. Earth dist.	5960 May 29 11:10	5° $\text{II}$ 53'37	1.34916 AU
minimum elong	5959 Jun 20 12:43	1° $\text{B}$ 56'33	0°06'35				
behind sun begin	5959 Jun 20 07:40	1° $\text{B}$ 29'48		superior conj	5960 Jun 03 09:46	15° $\text{II}$ 48'30	-0°36'28
behind sun end	5959 Jun 20 17:46	2° $\text{B}$ 23'21		minimum elong	5960 Jun 03 11:48	15° $\text{II}$ 58'54	0°36'05
asc. node	5959 Jun 21 03:43	3° $\text{B}$ 16'10		asc. node	5960 Jun 07 00:46	23° $\text{II}$ 18'52	
evening rise	5959 Jun 27 17:26	17° $\text{B}$ 17'26			5960 Jun 10 05:42	0° $\text{B}$	
	5959 Jul 04 00:45	0° $\text{Q}$		evening rise	5960 Jun 11 02:02	1° $\text{B}$ 45'23	
evening max el	5959 Jul 18 20:13	21° $\text{Q}$ 37'48	22°10'37		5960 Jun 27 15:02	0° $\text{Q}$	
desc. node	5959 Jul 27 01:22	27° $\text{Q}$ 10'37		evening max el	5960 Jun 29 20:00	2° $\text{Q}$ 22'06	20°43'08
retrograde	5959 Jul 31 16:46	28° $\text{Q}$ 00'50		retrograde	5960 Jul 11 04:54	7° $\text{Q}$ 57'33	
evening set	5959 Aug 03 15:38	27° $\text{Q}$ 41'31		desc. node	5960 Jul 12 22:23	7° $\text{Q}$ 50'18	
min. Earth dist.	5959 Aug 12 01:57	24° $\text{Q}$ 03'03	0.54971 AU	evening set	5960 Jul 13 06:48	7° $\text{Q}$ 47'06	
inferior conj	5959 Aug 12 20:29	23° $\text{Q}$ 36'57	-4°27'26	inferior conj	5960 Jul 22 13:27	3° $\text{Q}$ 50'11	-2°49'31
minimum elong	5959 Aug 12 11:55	23° $\text{Q}$ 49'02	4°25'31	minimum elong	5960 Jul 22 05:48	4° $\text{Q}$ 01'06	2°46'55
morning rise	5959 Aug 21 09:52	19° $\text{Q}$ 47'20		min. Earth dist.	5960 Jul 23 12:33	3° $\text{Q}$ 17'12	0.54822 AU
direct	5959 Aug 24 15:28	19° $\text{Q}$ 23'57			5960 Jul 30 11:25	30° $\text{R}$ $\text{B}$	
morning max el	5959 Sep 05 10:33	24° $\text{Q}$ 55'07	21°27'43	morning rise	5960 Jul 31 04:28	29° $\text{B}$ 47'35	
	5959 Sep 10 01:29	0° $\text{P}$		direct	5960 Aug 04 00:41	29° $\text{B}$ 15'52	
asc. node	5959 Sep 17 03:03	10° $\text{P}$ 38'17			5960 Aug 08 11:05	0° $\text{Q}$	
morning set	5959 Sep 25 18:25	27° $\text{P}$ 21'30		morning max el	5960 Aug 17 04:08	5° $\text{Q}$ 35'08	23°08'30
	5959 Sep 27 00:45	0° $\text{Q}$		asc. node	5960 Sep 03 00:03	29° $\text{Q}$ 40'36	
					5960 Sep 03 04:09	0° $\text{P}$	
superior conj	5959 Oct 03 01:02	12° $\text{Q}$ 38'37	1°42'57	morning set	5960 Sep 09 05:34	12° $\text{P}$ 12'38	
minimum elong	5959 Oct 03 01:06	12° $\text{Q}$ 38'58	1°42'57				
max. Earth dist.	5959 Oct 07 05:23	21° $\text{Q}$ 11'41	1.35094 AU	superior conj	5960 Sep 16 06:03	27° $\text{P}$ 17'04	1°39'58
evening rise	5959 Oct 11 11:27	29° $\text{Q}$ 29'53		minimum elong	5960 Sep 16 04:55	27° $\text{P}$ 11'01	1°39'55
	5959 Oct 11 17:48	0° $\text{M}$			5960 Sep 17 12:33	0° $\text{Q}$	
desc. node	5959 Oct 23 00:34	19° $\text{M}$ 48'00		max. Earth dist.	5960 Sep 19 01:12	3° $\text{Q}$ 13'44	1.33644 AU
	5959 Oct 29 15:00	0° $\text{J}$		evening rise	5960 Sep 23 22:55	13° $\text{Q}$ 15'23	
evening max el	5959 Nov 15 18:56	21° $\text{J}$ 21'36	26°40'44		5960 Oct 02 23:17	0° $\text{M}$	
retrograde	5959 Nov 28 19:37	28° $\text{J}$ 37'30		desc. node	5960 Oct 08 21:36	9° $\text{M}$ 47'29	
evening set	5959 Dec 05 08:10	26° $\text{J}$ 00'30			5960 Oct 23 16:53	0° $\text{J}$	
min. Earth dist.	5959 Dec 09 09:48	21° $\text{J}$ 52'47	0.66059 AU	evening max el	5960 Oct 28 07:38	4° $\text{J}$ 50'13	27°17'54
inferior conj	5959 Dec 11 05:14	19° $\text{J}$ 44'10	-0°58'38	retrograde	5960 Nov 10 18:51	12° $\text{J}$ 08'23	
minimum elong	5959 Dec 11 06:53	19° $\text{J}$ 39'17	0°57'54	evening set	5960 Nov 17 17:28	9° $\text{J}$ 29'55	
asc. node	5959 Dec 14 02:19	16° $\text{J}$ 31'16		min. Earth dist.	5960 Nov 21 13:22	5° $\text{J}$ 56'36	0.64656 AU
morning rise	5959 Dec 17 06:26	14° $\text{J}$ 02'04		inferior conj	5960 Nov 23 20:37	3° $\text{J}$ 27'10	-2°02'17
direct	5959 Dec 20 03:45	13° $\text{J}$ 15'35		minimum elong	5960 Nov 24 00:13	3° $\text{J}$ 17'23	2°00'49
morning max el	5959 Dec 26 17:03	16° $\text{J}$ 48'17	18°22'50		5960 Nov 27 07:22	30° $\text{R}$ $\text{M}$	
	5960 Jan 05 13:07	0° $\text{B}$		asc. node	5960 Nov 29 23:21	28° $\text{M}$ 09'15	
morning set	5960 Jan 15 08:54	15° $\text{B}$ 36'41		morning rise	5960 Nov 30 08:15	27° $\text{M}$ 58'47	
desc. node	5960 Jan 18 23:50	21° $\text{B}$ 24'27		direct	5960 Dec 02 22:04	27° $\text{M}$ 24'19	
	5960 Jan 24 09:37	0° $\text{B}$			5960 Dec 08 12:17	0° $\text{J}$	
				morning max el	5960 Dec 09 09:15	0° $\text{J}$ 49'14	17°57'10
superior conj	5960 Jan 30 23:30	10° $\text{B}$ 21'25	-1°17'33	morning set	5960 Dec 26 19:06	27° $\text{J}$ 03'07	
minimum elong	5960 Jan 30 14:37	9° $\text{B}$ 46'37	1°16'30		5960 Dec 28 13:23	0° $\text{B}$	
max. Earth dist.	5960 Feb 01 01:41	12° $\text{B}$ 04'04	1.45381 AU	desc. node	5961 Jan 04 20:51	12° $\text{B}$ 04'31	

superior conj	5961 Jan 09 11:37	19° $\text{Z}$ 31'50	-0°32'04	behind sun end	5961 Dec 21 06:07	0° $\text{Z}$ 21'29	
minimum elong	5961 Jan 09 07:47	19° $\text{Z}$ 16'28	0°31'30		5961 Dec 21 00:58	0° $\text{Z}$	
max. Earth dist.	5961 Jan 13 21:19	26° $\text{Z}$ 31'57	1.44986 AU	desc. node	5961 Dec 22 17:53	2° $\text{Z}$ 49'51	
	5961 Jan 16 02:12	0° $\approx$		max. Earth dist.	5961 Dec 27 14:36	10° $\text{Z}$ 45'25	1.43895 AU
evening rise	5961 Jan 25 15:35	14° $\approx$ 50'07		evening rise	5962 Jan 05 02:19	24° $\text{Z}$ 07'36	
	5961 Feb 04 14:15	0° $\text{H}$			5962 Jan 08 22:15	0° $\approx$	
greatest brilliancy	5961 Feb 09 04:04	6° $\text{H}$ 49'01	-0.6m		5962 Jan 29 20:12	0° $\text{H}$	
evening max el	5961 Feb 21 02:40	22° $\text{H}$ 29'10	20°01'19	evening max el	5962 Feb 04 01:55	6° $\text{H}$ 04'31	21°08'09
asc. node	5961 Feb 25 22:35	26° $\text{H}$ 14'09		retrograde	5962 Feb 12 16:20	11° $\text{H}$ 09'48	
retrograde	5961 Feb 28 18:10	26° $\text{H}$ 55'48		asc. node	5962 Feb 12 19:37	11° $\text{H}$ 09'43	
evening set	5961 Mar 04 12:24	25° $\text{H}$ 33'25		evening set	5962 Feb 16 20:08	9° $\text{H}$ 32'24	
inferior conj	5961 Mar 09 21:34	19° $\text{H}$ 31'26	3°09'27	inferior conj	5962 Feb 22 04:02	3° $\text{H}$ 18'43	2°42'32
minimum elong	5961 Mar 09 19:39	19° $\text{H}$ 37'53	3°09'07	minimum elong	5962 Feb 22 01:42	3° $\text{H}$ 26'47	2°41'57
min. Earth dist.	5961 Mar 10 19:13	18° $\text{H}$ 18'35	0.67275 AU	min. Earth dist.	5962 Feb 22 12:36	2° $\text{H}$ 49'04	0.67938 AU
morning rise	5961 Mar 15 02:41	13° $\text{H}$ 16'26			5962 Feb 24 15:10	30° $\text{R}$ $\approx$	
direct	5961 Mar 20 23:26	10° $\text{H}$ 39'10		morning rise	5962 Feb 27 07:07	27° $\approx$ 05'33	
morning max el	5961 Apr 01 18:11	17° $\text{H}$ 41'55	25°01'28	direct	5962 Mar 04 13:43	24° $\approx$ 46'31	
desc. node	5961 Apr 02 20:10	18° $\text{H}$ 49'14			5962 Mar 14 01:12	0° $\text{H}$	
	5961 Apr 12 01:22	0° $\text{Y}$		morning max el	5962 Mar 15 03:10	1° $\text{H}$ 03'37	23°32'54
	5961 May 01 21:24	0° $\text{B}$		desc. node	5962 Mar 20 17:11	7° $\text{H}$ 21'21	
morning set	5961 May 07 20:45	10° $\text{B}$ 20'10			5962 Apr 06 00:05	0° $\text{Y}$	
max. Earth dist.	5961 May 11 11:50	16° $\text{B}$ 56'05	1.36800 AU	morning set	5962 Apr 19 08:09	21° $\text{Y}$ 21'46	
				max. Earth dist.	5962 Apr 23 07:35	28° $\text{Y}$ 13'02	1.38961 AU
					5962 Apr 24 07:51	0° $\text{B}$	
superior conj	5961 May 17 21:22	29° $\text{B}$ 09'30	-1°06'47				
minimum elong	5961 May 18 01:10	29° $\text{B}$ 28'12	1°06'09				
	5961 May 18 07:37	0° $\text{II}$		superior conj	5962 Apr 30 19:26	11° $\text{B}$ 48'32	-1°35'02
asc. node	5961 May 24 21:48	13° $\text{II}$ 13'20		minimum elong	5962 May 01 00:31	12° $\text{B}$ 12'21	1°34'25
evening rise	5961 May 26 05:46	15° $\text{II}$ 54'26		evening rise	5962 May 10 01:54	29° $\text{B}$ 37'13	
	5961 Jun 02 13:55	0° $\text{E}$			5962 May 10 06:36	0° $\text{II}$	
evening max el	5961 Jun 12 08:23	13° $\text{E}$ 47'00	19°33'34	asc. node	5962 May 11 18:50	2° $\text{II}$ 55'05	
retrograde	5961 Jun 21 23:51	18° $\text{E}$ 30'41		evening max el	5962 May 26 08:01	25° $\text{II}$ 53'09	18°44'21
evening set	5961 Jun 23 21:37	18° $\text{E}$ 20'24		retrograde	5962 Jun 03 11:32	29° $\text{II}$ 54'06	
desc. node	5961 Jun 29 19:23	15° $\text{E}$ 59'12		evening set	5962 Jun 05 14:04	29° $\text{II}$ 38'59	
inferior conj	5961 Jul 02 15:13	14° $\text{E}$ 15'37	-0°51'03	inferior conj	5962 Jun 13 12:06	25° $\text{II}$ 17'01	0°55'23
minimum elong	5961 Jul 02 12:55	14° $\text{E}$ 19'17	0°50'11	minimum elong	5962 Jun 13 14:08	25° $\text{II}$ 13'15	0°54'37
min. Earth dist.	5961 Jul 05 01:25	12° $\text{E}$ 43'33	0.55622 AU	desc. node	5962 Jun 16 16:25	22° $\text{II}$ 56'37	
morning rise	5961 Jul 11 01:46	9° $\text{E}$ 42'21		min. Earth dist.	5962 Jun 16 18:10	22° $\text{II}$ 53'31	0.57219 AU
direct	5961 Jul 15 17:26	8° $\text{E}$ 53'57		morning rise	5962 Jun 21 10:48	20° $\text{II}$ 06'53	
morning max el	5961 Jul 29 17:27	15° $\text{E}$ 54'45	24°52'31	direct	5962 Jun 27 00:13	18° $\text{II}$ 51'00	
	5961 Aug 10 01:16	0° $\Omega$		morning max el	5962 Jul 11 08:58	26° $\text{II}$ 22'26	26°23'24
asc. node	5961 Aug 20 21:04	19° $\Omega$ 08'24			5962 Jul 14 19:38	0° $\text{E}$	
morning set	5961 Aug 24 17:19	27° $\Omega$ 04'38			5962 Aug 03 07:26	0° $\Omega$	
	5961 Aug 26 02:06	0° $\text{P}$		asc. node	5962 Aug 07 18:06	8° $\Omega$ 53'42	
				morning set	5962 Aug 09 03:58	11° $\Omega$ 51'17	
superior conj	5961 Aug 31 15:18	12° $\text{P}$ 06'51	1°31'07				
minimum elong	5961 Aug 31 13:23	11° $\text{P}$ 56'19	1°30'56	superior conj	5962 Aug 16 02:42	27° $\Omega$ 00'10	1°17'08
max. Earth dist.	5961 Sep 02 05:09	15° $\text{P}$ 33'11	1.32615 AU	minimum elong	5962 Aug 16 00:25	26° $\Omega$ 47'36	1°16'48
evening rise	5961 Sep 07 20:18	27° $\text{P}$ 28'33		max. Earth dist.	5962 Aug 16 14:20	28° $\Omega$ 04'27	1.32014 AU
	5961 Sep 09 02:06	0° $\text{L}$			5962 Aug 17 11:17	0° $\text{P}$	
desc. node	5961 Sep 25 18:37	29° $\text{L}$ 18'18		evening rise	5962 Aug 23 00:34	11° $\text{P}$ 59'38	
	5961 Sep 26 05:49	0° $\text{M}$			5962 Sep 01 05:57	0° $\text{L}$	
evening max el	5961 Oct 10 18:06	17° $\text{M}$ 53'05	27°27'01	desc. node	5962 Sep 12 15:38	18° $\text{L}$ 07'50	
retrograde	5961 Oct 24 11:30	25° $\text{M}$ 08'32			5962 Sep 22 16:54	0° $\text{M}$	
evening set	5961 Oct 31 15:19	22° $\text{M}$ 37'46		evening max el	5962 Sep 22 23:44	0° $\text{M}$ 16'15	27°03'39
min. Earth dist.	5961 Nov 04 07:08	19° $\text{M}$ 35'12	0.62935 AU	retrograde	5962 Oct 06 20:49	7° $\text{M}$ 27'40	
inferior conj	5961 Nov 07 01:50	16° $\text{M}$ 53'31	-3°07'17	evening set	5962 Oct 13 21:44	5° $\text{M}$ 16'16	
minimum elong	5961 Nov 07 07:21	16° $\text{M}$ 40'07	3°05'21	min. Earth dist.	5962 Oct 17 14:10	2° $\text{M}$ 35'19	0.60958 AU
morning rise	5961 Nov 14 01:07	11° $\text{M}$ 42'22		inferior conj	5962 Oct 20 17:38	29° $\text{L}$ 54'06	-4°08'54
direct	5961 Nov 16 09:59	11° $\text{M}$ 16'15		minimum elong	5962 Oct 21 00:12	29° $\text{L}$ 40'02	4°07'07
asc. node	5961 Nov 16 20:22	11° $\text{M}$ 17'08			5962 Oct 20 14:53	30° $\text{R}$ $\text{L}$	
morning max el	5961 Nov 23 02:09	14° $\text{M}$ 42'07	17°49'02	morning rise	5962 Oct 28 04:44	25° $\text{L}$ 03'26	
	5961 Dec 03 16:46	0° $\text{J}$		direct	5962 Oct 30 11:36	24° $\text{L}$ 42'29	
morning set	5961 Dec 09 05:31	9° $\text{J}$ 39'27		asc. node	5962 Nov 03 17:23	25° $\text{L}$ 57'51	
				morning max el	5962 Nov 06 16:29	28° $\text{L}$ 18'00	17°59'28
superior conj	5961 Dec 20 23:02	29° $\text{J}$ 51'55	0°12'42		5962 Nov 08 06:37	0° $\text{M}$	
minimum elong	5961 Dec 21 00:18	29° $\text{J}$ 57'13	0°12'33	morning set	5962 Nov 22 09:39	23° $\text{M}$ 05'28	
behind sun begin	5961 Dec 20 18:29	29° $\text{J}$ 32'56			5962 Nov 26 03:39	0° $\text{J}$	



























































































































































superior conj	5962 Dec 02 12:33	11°  27'30	0°49'39	minimum elong	5963 Nov 15 03:56	24°  23'59	1°16'04
minimum elong	5962 Dec 02 16:08	11°  43'18	0°49'10		5963 Nov 18 05:23	0° 	
desc. node	5962 Dec 09 14:53	23°  36'27		max. Earth dist.	5963 Nov 22 10:12	7°  25'49	1.40227 AU
max. Earth dist.	5962 Dec 10 02:55	24°  26'29	1.42240 AU	desc. node	5963 Nov 26 11:53	14°  21'06	
	5962 Dec 13 12:22	0° 		evening rise	5963 Nov 26 17:06	14°  42'49	
evening rise	5962 Dec 15 23:25	3°  56'50			5963 Dec 06 07:06	0° 	
	5963 Jan 02 07:04	0° 			5963 Dec 28 06:50	0° 	
evening max el	5963 Jan 17 20:01	19°  41'26	22°24'20	evening max el	5963 Dec 31 10:35	3°  21'55	23°44'22
retrograde	5963 Jan 27 12:56	25°  27'36		retrograde	5964 Jan 11 06:26	9°  45'02	
asc. node	5963 Jan 30 16:38	24°  35'46		evening set	5964 Jan 16 09:36	7°  37'12	
evening set	5963 Feb 01 03:44	23°  34'53		asc. node	5964 Jan 17 13:42	6°  31'15	
inferior conj	5963 Feb 06 12:10	17°  12'51	2°06'50	min. Earth dist.	5964 Jan 21 05:36	2°  00'08	0.68061 AU
minimum elong	5963 Feb 06 09:53	17°  20'47	2°06'07	inferior conj	5964 Jan 21 20:05	1°  10'46	1°23'21
min. Earth dist.	5963 Feb 06 08:51	17°  24'21	0.68188 AU	minimum elong	5964 Jan 21 18:18	1°  16'51	1°22'42
morning rise	5963 Feb 11 15:54	11°  03'00			5964 Jan 22 16:57	30°  R 	
direct	5963 Feb 16 08:00	9°  05'52		morning rise	5964 Jan 27 02:57	25°  05'55	
morning max el	5963 Feb 25 14:58	14°  32'48	22°04'43	direct	5964 Jan 31 05:13	23°  31'24	
desc. node	5963 Mar 07 14:12	26°  36'26		morning max el	5964 Feb 08 08:54	28°  12'08	20°44'28
	5963 Mar 10 01:33	0° 			5964 Feb 10 01:47	0° 	
	5963 Mar 29 23:48	0° 		desc. node	5964 Feb 22 11:12	16°  22'11	
morning set	5963 Mar 30 15:56	1°  04'54			5964 Mar 02 15:30	0° 	
max. Earth dist.	5963 Apr 05 05:20	10°  07'13	1.41147 AU	morning set	5964 Mar 08 21:36	9°  36'57	
				max. Earth dist.	5964 Mar 17 09:55	23°  07'52	1.43081 AU
					5964 Mar 21 14:33	0° 	
superior conj	5963 Apr 12 23:26	23°  05'18	-1°57'34				
minimum elong	5963 Apr 13 04:12	23°  05'27	1°57'15				
	5963 Apr 16 13:08	0° 		superior conj	5964 Mar 24 04:28	4°  18'20	-2°09'18
evening rise	5963 Apr 23 10:59	12°  08'45	17	minimum elong	5964 Mar 24 05:51	4°  18'20	2°09'18
asc. node	5963 Apr 28 15:52	22°  08'19	21	evening rise	5964 Apr 05 04:41	25°  07'55	
	5963 May 03 03:46	0° 			5964 Apr 07 22:36	0° 	
evening max el	5963 May 09 15:39	8°  33'55	18°15'29	asc. node	5964 Apr 14 12:56	11°  08'19	10
retrograde	5963 May 16 18:04	12°  07'17		evening max el	5964 Apr 22 03:37	21°  08'38	18°06'15
evening set	5963 May 19 03:46	11°  02'43	39	retrograde	5964 Apr 28 16:28	25°  00'31	
inferior conj	5963 May 26 06:42	7°  01'31	2°13'10	evening set	5964 May 01 09:07	24°  02'53	
minimum elong	5963 May 26 10:04	6°  02'54	11	inferior conj	5964 May 07 20:23	19°  02'23	27
min. Earth dist.	5963 May 29 16:39	4°  05'31	0.59306 AU	minimum elong	5964 May 07 23:02	19°  02'23	27
morning rise	5963 Jun 02 13:25	1°  02'21	24	min. Earth dist.	5964 May 10 22:35	16°  02'19	52
desc. node	5963 Jun 03 13:28	0° 		morning rise	5964 May 14 11:01	13°  02'41	10
	5963 Jun 05 16:04	30°  R 		desc. node	5964 May 20 10:30	11°  05'17	
direct	5963 Jun 08 21:09	29°  03'31	36	direct	5964 May 21 05:06	11°  03'29	
	5963 Jun 12 04:07	0° 		morning max el	5964 Jun 04 09:51	19°  02'47	27°52'55
morning max el	5963 Jun 23 06:19	7°  02'21	58		5964 Jun 13 16:10	0° 	
	5963 Jul 10 07:41	0° 			5964 Jul 02 03:57	0° 	
morning set	5963 Jul 24 11:54	26°  02'27	36	morning set	5964 Jul 07 15:11	10°  02'47	21
asc. node	5963 Jul 25 15:08	28°  02'51	04	asc. node	5964 Jul 11 12:11	18°  02'55	18
	5963 Jul 26 04:05	0° 		max. Earth dist.	5964 Jul 13 10:15	23°  02'04	1.32123 AU
max. Earth dist.	5963 Jul 31 01:16	10°  02'38	32				
				superior conj	5964 Jul 15 00:48	26°  02'34	28
superior conj	5963 Jul 31 14:28	11°  02'51	25	minimum elong	5964 Jul 14 23:15	26°  02'25	58
minimum elong	5963 Jul 31 12:18	11°  02'39	31		5964 Jul 16 14:14	0° 	
evening rise	5963 Aug 07 09:23	26°  02'41	43	evening rise	5964 Jul 21 20:38	11°  02'27	57
	5963 Aug 08 23:03	0° 			5964 Jul 31 05:40	0° 	
	5963 Aug 25 23:29	0° 		desc. node	5964 Aug 16 09:43	22°  02'29	55
desc. node	5963 Aug 30 12:40	5°  02'59	25	evening max el	5964 Aug 16 13:46	22°  02'39	40
evening max el	5963 Sep 04 22:22	11°  02'51	15	retrograde	5964 Aug 30 10:47	29°  02'39	13
retrograde	5963 Sep 18 21:24	18°  02'58	11	evening set	5964 Sep 04 17:40	28°  02'36	30
evening set	5963 Sep 25 07:53	17°  02'18	08	min. Earth dist.	5964 Sep 10 01:03	25°  02'49	18
min. Earth dist.	5963 Sep 29 11:20	14°  02'43	13	inferior conj	5964 Sep 12 19:35	24°  02'01	37
inferior conj	5963 Oct 02 16:29	12°  02'19	42	minimum elong	5964 Sep 12 20:18	24°  02'00	26
minimum elong	5963 Oct 02 21:53	12°  02'09	36	morning rise	5964 Sep 21 01:14	19°  02'55	26
morning rise	5963 Oct 10 14:09	7°  02'51	36	direct	5964 Sep 23 15:41	19°  02'36	32
direct	5963 Oct 12 22:45	7°  02'32	56	morning max el	5964 Oct 02 23:38	24°  02'00	16
morning max el	5963 Oct 21 00:48	11°  02'27	25	asc. node	5964 Oct 07 11:28	29°  02'12	17
asc. node	5963 Oct 21 14:25	12°  02'01	14		5964 Oct 08 01:15	0° 	
	5963 Nov 02 08:39	0° 		morning set	5964 Oct 20 03:26	21°  02'31	27
morning set	5963 Nov 06 02:15	7°  02'06	26		5964 Oct 24 08:52	0° 	
				superior conj	5964 Oct 28 05:11	7°  02'36	43
superior conj	5963 Nov 15 00:22	24°  02'07	23				

minimum elong	5964 Oct 28 07:35	7°  48'25	1°33'14	superior conj	5965 Oct 11 22:12	21°  41'18	1°41'38
max. Earth dist.	5964 Nov 03 15:26	19°  46'51	1.38101 AU	minimum elong	5965 Oct 11 23:06	21°  45'51	1°41'38
evening rise	5964 Nov 07 09:28	26°  30'23			5965 Oct 16 01:54	0° 	
	5964 Nov 09 09:47	0° 		max. Earth dist.	5965 Oct 16 23:10	1°  43'37	1.36103 AU
desc. node	5964 Nov 12 08:55	5°  00'09		evening rise	5965 Oct 20 21:45	9°  11'40	
	5964 Nov 28 20:11	0° 		desc. node	5965 Oct 30 05:57	25°  28'30	
evening max el	5964 Dec 12 23:41	17°  06'44	25°01'41		5965 Nov 02 01:24	0° 	
retrograde	5964 Dec 24 19:45	23°  58'13			5965 Nov 24 15:47	0° 	
evening set	5964 Dec 30 12:13	21°  36'24		evening max el	5965 Nov 25 12:28	0°  51'04	26°09'11
asc. node	5965 Jan 03 10:44	17°  18'01		retrograde	5965 Dec 08 04:04	8°  30'52	
min. Earth dist.	5965 Jan 04 00:28	16°  33'40	0.67571 AU	evening set	5965 Dec 14 09:48	5°  32'49	
inferior conj	5965 Jan 05 01:58	15°  10'05	0°32'55	min. Earth dist.	5965 Dec 18 15:06	1°  30'11	0.66717 AU
minimum elong	5965 Jan 05 01:10	15°  12'43	0°32'38		5965 Dec 19 10:40	30°  R 	
morning rise	5965 Jan 10 14:19	9°  12'16		inferior conj	5965 Dec 20 03:55	29°  7'06'29	-0°23'39
direct	5965 Jan 14 04:01	7°  58'53		minimum elong	5965 Dec 20 04:33	29°  7'04'32	0°23'21
morning max el	5965 Jan 21 10:51	12°  30'41	19°37'12	asc. node	5965 Dec 21 07:46	27°  7'41'33	
greatest brilliancy	5965 Feb 03 10:04	29°  07'22	-0.7m	morning rise	5965 Dec 25 23:53	23°  7'18'06	
	5965 Feb 04 00:16	0° 		direct	5965 Dec 29 02:39	22°  7'22'53	
desc. node	5965 Feb 08 08:13	6°  30'35		morning max el	5966 Jan 04 20:11	26°  7'03'52	18°45'19
morning set	5965 Feb 15 18:19	17°  52'07			5966 Jan 08 06:52	0° 	
	5965 Feb 23 13:40	0° 		morning set	5966 Jan 26 06:56	27°  3'01'42	
max. Earth dist.	5965 Feb 27 22:19	6°  52'15	1.44516 AU	desc. node	5966 Jan 26 05:13	26°  3'54'57	
					5966 Jan 28 04:20	0° 	
superior conj	5965 Mar 04 08:10	13°  54'41	-2°04'28	max. Earth dist.	5966 Feb 10 15:53	21°  3'07'46	1.45279 AU
minimum elong	5965 Mar 04 03:12	13°  53'45	2°04'14				
	5965 Mar 14 03:53	0° 		superior conj	5966 Feb 11 15:56	22°  3'42'09	-1°39'41
evening rise	5965 Mar 18 02:34	6°  37'05		minimum elong	5966 Feb 11 06:31	22°  3'05'13	1°38'48
asc. node	5965 Apr 01 09:59	29°  46'45			5966 Feb 16 07:11	0° 	
	5965 Apr 01 13:48	0° 		evening rise	5966 Feb 27 01:26	17°  3'08'55	
evening max el	5965 Apr 05 16:39	4°  58'50	18°15'55	greatest brilliancy	5966 Mar 06 01:06	28°  3'23'07	-0.9m
retrograde	5965 Apr 12 02:19	8°  23'49			5966 Mar 07 01:22	0° 	
evening set	5965 Apr 15 01:30	7°  36'49		asc. node	5966 Mar 19 07:01	17°  3'32'17	
inferior conj	5965 Apr 21 01:09	2°  15'18	3°25'12	evening max el	5966 Mar 20 03:59	18°  3'27'44	18°43'47
minimum elong	5965 Apr 21 02:18	2°  12'04	3°25'05	retrograde	5966 Mar 26 19:29	22°  3'08'44	
	5965 Apr 23 01:23	30°  R 		evening set	5966 Mar 30 01:18	21°  3'08'38	
min. Earth dist.	5965 Apr 23 13:33	29°  3'26'48	0.63608 AU	inferior conj	5966 Apr 04 17:01	15°  3'29'45	3°30'06
morning rise	5965 Apr 27 02:03	26°  3'05'30		minimum elong	5966 Apr 04 16:41	15°  3'30'45	3°30'04
direct	5965 May 03 21:46	23°  3'24'14		min. Earth dist.	5966 Apr 06 13:53	13°  3'12'14	0.65353 AU
desc. node	5965 May 07 07:32	23°  3'59'43		morning rise	5966 Apr 10 07:32	9°  3'15'13	
	5965 May 16 07:32	0° 		direct	5966 Apr 16 21:48	6°  3'26'12	
morning max el	5965 May 17 18:03	1°  3'23'51	27°42'02	desc. node	5966 Apr 24 04:33	9°  3'07'44	
	5965 Jun 07 20:33	0° 		morning max el	5966 Apr 30 04:19	14°  3'15'39	26°58'03
morning set	5965 Jun 21 11:30	24°  3'43'43			5966 May 12 23:11	0° 	
	5965 Jun 24 01:59	0° 			5966 May 31 13:20	0° 	
max. Earth dist.	5965 Jun 26 13:28	5°  3'09'51	1.32842 AU	morning set	5966 Jun 04 21:52	8°  3'12'08'23	
asc. node	5965 Jun 28 09:13	9°  3'02'15		max. Earth dist.	5966 Jun 09 07:17	16°  3'12'47'27	1.34023 AU
superior conj	5965 Jun 29 07:50	11°  3'03'32	0°09'45	superior conj	5966 Jun 13 09:29	25°  3'12'32	-0°19'06
minimum elong	5965 Jun 29 07:22	11°  3'00'59	0°09'37	minimum elong	5966 Jun 13 10:31	25°  3'17'54	0°18'55
behind sun begin	5965 Jun 29 03:04	10°  3'37'55		asc. node	5966 Jun 15 06:16	29°  3'12'07'58	
behind sun end	5965 Jun 29 11:39	11°  3'24'04			5966 Jun 15 16:06	0° 	
evening rise	5965 Jul 06 08:24	26°  3'12'11		evening rise	5966 Jun 20 18:46	10°  3'03'48'29	
	5965 Jul 08 03:45	0° 			5966 Jun 30 18:28	0° 	
	5965 Jul 26 06:10	0° 		evening max el	5966 Jul 10 19:24	13°  3'02'27'02	21°31'30
evening max el	5965 Jul 29 02:00	3°  3'00'08	23°06'10	desc. node	5966 Jul 21 03:47	19°  3'02'23'10	
desc. node	5965 Aug 03 06:45	7°  3'08'49		retrograde	5966 Jul 23 02:22	19°  3'02'32'08	
retrograde	5965 Aug 11 11:28	9°  3'41'56		evening set	5966 Jul 25 14:06	19°  3'02'17'59	
evening set	5965 Aug 15 06:09	9°  3'10'43		inferior conj	5966 Aug 03 21:42	15°  3'02'18'04	-3°50'40
min. Earth dist.	5965 Aug 22 10:50	5°  3'55'03	0.55478 AU	minimum elong	5966 Aug 03 12:40	15°  3'02'30'43	3°48'07
inferior conj	5965 Aug 24 03:04	4°  3'56'43	-5°02'46	min. Earth dist.	5966 Aug 03 20:35	15°  3'02'19'38	0.54785 AU
minimum elong	5965 Aug 23 21:03	5°  3'05'28	5°01'57	morning rise	5966 Aug 12 12:19	11°  3'02'25'50	
morning rise	5965 Sep 01 14:12	1°  3'05'48		direct	5966 Aug 15 23:23	10°  3'02'59'52	
direct	5965 Sep 04 13:44	0° 		morning max el	5966 Aug 28 09:34	16°  3'02'51'17	22°09'25
morning max el	5965 Sep 15 10:27	5°  3'48'11	20°36'15		5966 Sep 07 17:04	0° 	
asc. node	5965 Sep 24 08:30	17°  3'16'02		asc. node	5966 Sep 11 05:32	6°  3'00'17	
	5965 Oct 01 08:39	0° 		morning set	5966 Sep 18 20:14	21°  3'00'00'33	
morning set	5965 Oct 04 10:10	6°  3'02'11'31			5966 Sep 23 01:57	0° 	

superior conj	5966 Sep 25 23:43	6°♄10'32	1°42'27	superior conj	5967 Sep 10 06:49	20°♄54'44	1°36'53
minimum elong	5966 Sep 25 23:14	6°♄07'59	1°42'27	minimum elong	5967 Sep 10 05:18	20°♄46'30	1°36'47
max. Earth dist.	5966 Sep 29 13:45	13°♄37'59	1.34422 AU	max. Earth dist.	5967 Sep 12 12:56	25°♄45'44	1.33148 AU
evening rise	5966 Oct 04 01:54	22°♄36'58			5967 Sep 14 13:02	0°♄	
	5966 Oct 07 23:52	0°♄		evening rise	5967 Sep 17 17:58	6°♄35'12	
desc. node	5966 Oct 17 02:59	15°♄40'42			5967 Sep 30 13:22	0°♄	
	5966 Oct 26 18:38	0°♄		desc. node	5967 Oct 04 00:02	5°♄29'08	
evening max el	5966 Nov 08 01:13	14°♄27'44	26°59'28	evening max el	5967 Oct 21 13:04	27°♄46'26	27°25'33
retrograde	5966 Nov 21 06:56	21°♄45'56			5967 Oct 24 01:10	0°♄	
evening set	5966 Nov 28 00:19	19°♄06'58		retrograde	5967 Nov 04 03:44	5°♄04'47	
min. Earth dist.	5966 Dec 01 23:16	15°♄14'24	0.65506 AU	evening set	5967 Nov 11 05:11	2°♄28'09	
inferior conj	5966 Dec 03 23:50	12°♄55'45	-1°25'15		5967 Nov 14 02:06	30°♄♄	
minimum elong	5966 Dec 04 02:17	12°♄48'43	1°24'11	min. Earth dist.	5967 Nov 14 22:56	29°♄08'36	0.63954 AU
asc. node	5966 Dec 08 04:48	8°♄38'47		inferior conj	5967 Nov 17 11:14	26°♄32'25	-2°29'57
morning rise	5966 Dec 10 05:19	7°♄19'26		minimum elong	5967 Nov 17 15:42	26°♄20'50	2°28'13
direct	5966 Dec 12 23:08	6°♄38'37		morning rise	5967 Nov 24 03:44	21°♄11'02	
morning max el	5966 Dec 19 10:42	10°♄06'46	18°09'51	asc. node	5967 Nov 25 01:48	20°♄52'45	
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morning set	5967 Jan 07 00:26	7°♄38'48		morning max el	5967 Dec 03 03:36	24°♄05'21	17°51'31
desc. node	5967 Jan 13 02:13	17°♄30'29			5967 Dec 07 22:20	0°♄	
	5967 Jan 20 22:09	0°♄		morning set	5967 Dec 19 21:43	19°♄37'19	
					5967 Dec 26 00:24	0°♄	
superior conj	5967 Jan 21 20:39	1°♄28'48	-0°58'50	desc. node	5967 Dec 30 23:14	8°♄13'20	
minimum elong	5967 Jan 21 13:32	1°♄00'44	0°57'54				
max. Earth dist.	5967 Jan 24 11:13	5°♄34'53	1.45301 AU	superior conj	5968 Jan 01 17:38	11°♄06'31	-0°12'28
evening rise	5967 Feb 07 02:20	26°♄50'07		minimum elong	5968 Jan 01 16:14	11°♄00'47	0°12'14
	5967 Feb 09 03:13	0°♄		behind sun begin	5968 Jan 01 09:42	10°♄34'12	
greatest brilliancy	5967 Feb 19 11:52	15°♄56'33	-0.7m	behind sun end	5968 Jan 01 22:45	11°♄27'21	
	5967 Mar 01 15:32	0°♄		max. Earth dist.	5968 Jan 07 05:37	19°♄56'51	1.44594 AU
evening max el	5967 Mar 03 11:31	2°♄00'41	19°28'38		5968 Jan 13 15:17	0°♄	
asc. node	5967 Mar 06 04:03	4°♄23'15		evening rise	5968 Jan 17 13:57	6°♄05'30	
retrograde	5967 Mar 10 16:30	6°♄08'28			5968 Feb 02 12:32	0°♄	
evening set	5967 Mar 14 05:47	4°♄54'33		evening max el	5968 Feb 14 13:59	15°♄35'56	20°28'24
	5967 Mar 18 22:19	30°♄♄		asc. node	5968 Feb 21 01:04	20°♄05'34	
inferior conj	5967 Mar 19 16:36	29°♄00'23	3°20'26	retrograde	5968 Feb 22 14:49	20°♄18'40	
minimum elong	5967 Mar 19 15:09	29°♄05'11	3°20'14	evening set	5968 Feb 26 12:51	18°♄50'11	
min. Earth dist.	5967 Mar 20 22:26	27°♄22'37	0.66694 AU	inferior conj	5968 Mar 02 21:14	12°♄43'01	2°59'12
morning rise	5967 Mar 25 00:12	22°♄44'40		minimum elong	5968 Mar 02 19:05	12°♄50'22	2°58'46
direct	5967 Mar 31 04:12	20°♄00'06		min. Earth dist.	5968 Mar 03 13:15	11°♄48'20	0.67605 AU
desc. node	5967 Apr 11 01:33	25°♄55'41		morning rise	5968 Mar 08 01:07	6°♄28'27	
morning max el	5967 Apr 12 14:07	27°♄25'00	25°48'46	direct	5968 Mar 13 16:03	3°♄57'57	
	5967 Apr 15 00:24	0°♄		morning max el	5968 Mar 24 22:47	10°♄42'57	24°24'18
	5967 May 06 15:16	0°♄		desc. node	5968 Mar 27 22:33	13°♄56'09	
morning set	5967 May 18 18:12	20°♄48'49			5968 Apr 09 06:53	0°♄	
max. Earth dist.	5967 May 22 13:32	27°♄56'47	1.35668 AU		5968 Apr 28 08:25	0°♄	
	5967 May 23 15:09	0°♄		morning set	5968 Apr 29 19:22	2°♄31'25	
				max. Earth dist.	5968 May 03 10:47	8°♄59'47	1.37698 AU
superior conj	5967 May 28 03:05	8°♄53'21	-0°49'24				
minimum elong	5967 May 28 05:53	9°♄07'27	0°48'54	superior conj	5968 May 10 09:28	21°♄58'26	-1°19'11
asc. node	5967 Jun 02 03:17	19°♄07'39		minimum elong	5968 May 10 13:56	22°♄19'54	1°18'32
evening rise	5967 Jun 05 01:36	25°♄09'16			5968 May 14 12:03	0°♄	
	5967 Jun 07 11:02	0°♄		evening rise	5968 May 19 02:30	9°♄08'25	
evening max el	5967 Jun 23 00:26	24°♄27'38	20°11'08	asc. node	5968 May 19 00:19	8°♄57'36	
retrograde	5967 Jul 03 16:04	29°♄41'02			5968 May 30 17:05	0°♄	
evening set	5967 Jul 05 14:14	29°♄31'33		evening max el	5968 Jun 04 18:04	6°♄11'35	19°10'08
desc. node	5967 Jul 08 00:49	28°♄54'10		retrograde	5968 Jun 13 16:58	10°♄34'53	
inferior conj	5967 Jul 14 16:45	25°♄33'02	-1°59'39	evening set	5968 Jun 15 16:13	10°♄23'04	
minimum elong	5967 Jul 14 11:11	25°♄41'18	1°57'37	desc. node	5968 Jun 23 21:50	6°♄18'54	
min. Earth dist.	5967 Jul 16 08:19	24°♄34'26	0.55045 AU	inferior conj	5968 Jun 24 01:52	6°♄12'05	-0°03'01
morning rise	5967 Jul 23 06:43	21°♄18'36		minimum elong	5968 Jun 24 01:44	6°♄12'18	0°03'00
direct	5967 Jul 27 10:23	20°♄41'09		transit middle	5968 Jun 24 01:44	6°♄12'18	0°03'00
morning max el	5967 Aug 10 00:40	27°♄20'05	23°53'16	transit begin	5968 Jun 23 21:59	6°♄18'38	
	5967 Aug 12 15:33	0°♄		transit end	5968 Jun 24 05:29	6°♄05'58	
asc. node	5967 Aug 29 02:33	25°♄14'14		min. Earth dist.	5968 Jun 26 22:49	4°♄16'18	0.56227 AU
	5967 Aug 31 12:01	0°♄		morning rise	5968 Jul 02 08:09	1°♄22'58	
morning set	5967 Sep 03 07:48	5°♄52'22		direct	5968 Jul 07 09:24	0°♄23'44	
				morning max el	5968 Jul 21 14:06	7°♄39'19	25°33'35



































































































































	5968 Aug 07 02:33	0°♎			5969 Jul 30 14:04	0°♎	
asc. node	5968 Aug 14 23:35	14°♎50'09		asc. node	5969 Aug 01 20:38	4°♎41'40	
morning set	5968 Aug 17 19:16	20°♎42'25		morning set	5969 Aug 02 05:01	5°♎25'50	
	5968 Aug 22 02:13	0°♏					
superior conj	5968 Aug 24 17:14	5°♏46'45	1°25'48	superior conj	5969 Aug 09 05:02	20°♎40'23	1°09'48
minimum elong	5968 Aug 24 15:06	5°♏35'02	1°25'31	minimum elong	5969 Aug 09 02:45	20°♎27'45	1°09'24
max. Earth dist.	5968 Aug 25 19:24	8°♏10'25	1.32310 AU	max. Earth dist.	5969 Aug 09 05:59	20°♎45'42	1.31898 AU
evening rise	5968 Aug 31 18:37	20°♏57'09			5969 Aug 13 10:46	0°♏	
	5968 Sep 05 06:54	0°♏		evening rise	5969 Aug 16 01:10	5°♏34'36	
desc. node	5968 Sep 19 21:04	24°♏43'59			5969 Aug 28 22:02	0°♏	
	5968 Sep 23 16:03	0°♐		desc. node	5969 Sep 06 18:06	13°♏11'45	
evening max el	5968 Oct 02 21:59	10°♐34'24	27°21'19	evening max el	5969 Sep 15 01:09	22°♏39'13	26°43'32
retrograde	5968 Oct 16 17:26	17°♐48'03		retrograde	5969 Sep 28 22:59	29°♏47'49	
evening set	5968 Oct 23 21:00	15°♐24'25		evening set	5969 Oct 05 19:26	27°♏48'41	
min. Earth dist.	5968 Oct 27 12:23	12°♐32'10	0.62111 AU	min. Earth dist.	5969 Oct 09 15:02	25°♏12'30	0.60076 AU
inferior conj	5968 Oct 30 11:11	9°♐49'03	-3°34'20	inferior conj	5969 Oct 12 20:17	22°♏36'53	-4°32'06
minimum elong	5968 Oct 30 17:19	9°♐34'53	3°32'21	minimum elong	5969 Oct 13 02:43	22°♏23'52	4°30'39
morning rise	5968 Nov 06 15:30	4°♐45'57		morning rise	5969 Oct 20 12:05	17°♏55'25	
direct	5968 Nov 08 23:04	4°♐22'25		direct	5969 Oct 22 19:21	17°♏35'37	
asc. node	5968 Nov 10 22:51	4°♐40'23		asc. node	5969 Oct 28 19:54	19°♏58'31	
morning max el	5968 Nov 15 19:45	7°♐51'40	17°51'06	morning max el	5969 Oct 30 07:57	21°♏17'52	18°09'54
	5968 Nov 30 05:27	0°♑			5969 Nov 05 23:07	0°♐	
morning set	5968 Dec 01 16:27	2°♑37'07		morning set	5969 Nov 15 02:32	16°♐20'31	
					5969 Nov 22 10:12	0°♑	
superior conj	5968 Dec 12 16:16	21°♑58'51	0°29'33	superior conj	5969 Nov 24 15:59	4°♑04'09	1°02'16
minimum elong	5968 Dec 12 18:53	22°♑10'00	0°29'12	minimum elong	5969 Nov 24 19:47	4°♑21'15	1°01'48
desc. node	5968 Dec 16 20:15	28°♑59'33		max. Earth dist.	5969 Dec 02 07:38	17°♑24'53	1.41418 AU
	5968 Dec 17 10:51	0°♒		desc. node	5969 Dec 03 17:18	19°♑46'09	
max. Earth dist.	5968 Dec 19 20:54	3°♒58'01	1.43247 AU	evening rise	5969 Dec 07 08:36	25°♑44'52	
evening rise	5968 Dec 27 03:22	15°♒32'34			5969 Dec 10 00:16	0°♒	
	5969 Jan 05 15:12	0°♓			5969 Dec 30 10:41	0°♓	
evening max el	5969 Jan 27 11:03	29°♓12'23	21°39'49	evening max el	5970 Jan 10 03:30	12°♓51'03	22°58'14
	5969 Jan 28 06:17	0°♈		retrograde	5970 Jan 20 07:43	18°♓53'06	
retrograde	5969 Feb 05 12:23	4°♈34'41		asc. node	5970 Jan 24 19:09	17°♓11'03	
asc. node	5969 Feb 06 22:07	4°♈24'14		evening set	5970 Jan 25 03:45	16°♓53'42	
evening set	5969 Feb 09 20:42	2°♈50'53		min. Earth dist.	5970 Jan 30 04:44	10°♓57'36	0.68186 AU
	5969 Feb 12 14:47	30°♈		inferior conj	5970 Jan 30 12:54	10°♓29'24	1°49'16
inferior conj	5969 Feb 15 04:39	26°♈33'30	2°28'23	minimum elong	5970 Jan 30 10:46	10°♓36'45	1°48'34
minimum elong	5969 Feb 15 02:17	26°♈41'44	2°27'44	morning rise	5970 Feb 04 17:42	4°♓21'44	
min. Earth dist.	5969 Feb 15 08:06	26°♈21'31	0.68095 AU	direct	5970 Feb 09 03:51	2°♓34'20	
morning rise	5969 Feb 20 07:41	20°♈21'40		morning max el	5970 Feb 17 22:25	7°♓40'05	21°29'17
direct	5969 Feb 25 08:14	18°♈11'27		desc. node	5970 Mar 01 16:34	22°♓17'20	
morning max el	5969 Mar 07 08:19	24°♈06'45	22°54'51		5970 Mar 07 02:01	0°♈	
	5969 Mar 12 13:55	0°♈		morning set	5970 Mar 21 15:06	22°♈09'38	
desc. node	5969 Mar 14 19:33	2°♈48'08			5970 Mar 26 12:07	0°♉	
	5969 Apr 02 17:14	0°♉		max. Earth dist.	5970 Mar 28 07:29	2°♉57'52	1.42020 AU
morning set	5969 Apr 10 19:24	13°♉00'13					
max. Earth dist.	5969 Apr 15 06:33	20°♉32'22	1.39910 AU	superior conj	5970 Apr 04 19:14	15°♉37'41	-2°04'13
	5969 Apr 20 15:46	0°♊		minimum elong	5970 Apr 04 23:01	15°♉54'03	2°04'03
superior conj	5969 Apr 23 00:29	4°♊17'05	-1°45'33		5970 Apr 12 21:25	0°♊	
minimum elong	5969 Apr 23 05:43	4°♊41'02	1°45'02	evening rise	5970 Apr 15 21:27	5°♊27'43	
evening rise	5969 May 02 18:22	22°♊37'37		asc. node	5970 Apr 22 18:25	17°♊47'36	
asc. node	5969 May 05 21:22	28°♊32'49			5970 Apr 30 23:11	0°♋	
	5969 May 06 16:03	0°♋		evening max el	5970 May 02 07:27	1°♋25'50	18°09'09
evening max el	5969 May 18 21:36	18°♋34'00	18°29'35	retrograde	5970 May 09 02:47	4°♋52'43	
retrograde	5969 May 26 12:45	22°♋20'56		evening set	5970 May 11 15:29	4°♋24'36	
evening set	5969 May 28 18:27	22°♋02'25			5970 May 17 23:37	30°♋	
inferior conj	5969 Jun 05 08:02	17°♋31'48	1°32'08	inferior conj	5970 May 18 11:13	29°♋33'22	2°37'00
minimum elong	5969 Jun 05 10:58	17°♋25'58	1°31'09	minimum elong	5970 May 18 14:27	29°♋25'53	2°36'12
min. Earth dist.	5969 Jun 08 17:29	14°♋51'56	0.58076 AU	min. Earth dist.	5970 May 21 18:46	26°♋31'20	0.60252 AU
desc. node	5969 Jun 10 18:50	13°♋25'07		morning rise	5970 May 25 10:55	23°♋43'44	
morning rise	5969 Jun 13 00:15	12°♋08'06		desc. node	5970 May 28 15:52	22°♋12'18	
direct	5969 Jun 18 22:24	10°♋38'08		direct	5970 May 31 23:54	21°♋40'20	
morning max el	5969 Jul 03 07:39	18°♋17'55	26°54'13	morning max el	5970 Jun 15 07:55	29°♋35'14	27°42'25
	5969 Jul 13 02:43	0°♌			5970 Jun 15 17:50	0°♋	
					5970 Jul 07 01:52	0°♌	

morning set	5970 Jul 17 11:15	19°☿56'20		morning set	5971 Jul 01 11:55	4°☿07'50	
asc. node	5970 Jul 19 17:40	24°☿42'48		asc. node	5971 Jul 06 14:43	14°☿49'12	
	5970 Jul 22 04:27	0°♊		max. Earth dist.	5971 Jul 06 23:48	15°☿37'59	1.32369 AU
max. Earth dist.	5970 Jul 23 16:47	3°♊19'00	1.31914 AU				
superior conj	5970 Jul 24 16:23	5°♊28'58	0°49'26	superior conj	5971 Jul 09 01:34	20°☿07'15	0°25'12
minimum elong	5970 Jul 24 14:26	5°♊18'11	0°49'01	minimum elong	5971 Jul 09 00:25	20°☿00'59	0°24'56
evening rise	5970 Jul 31 11:15	20°♊19'30			5971 Jul 13 14:11	0°♊	
	5970 Aug 05 03:49	0°♊		evening rise	5971 Jul 15 22:57	5°♊05'51	
	5970 Aug 24 03:41	0°♊			5971 Jul 29 03:23	0°♊	
desc. node	5970 Aug 24 15:09	0°♊32'29		evening max el	5971 Aug 09 09:23	14°♊25'40	24°02'45
evening max el	5970 Aug 27 20:23	3°♊53'04	25°34'09	desc. node	5971 Aug 11 12:09	16°♊19'51	
retrograde	5970 Sep 10 18:55	10°♊57'37		retrograde	5971 Aug 23 03:25	21°♊20'26	
evening set	5970 Sep 16 19:32	9°♊32'54		evening set	5971 Aug 27 19:12	20°♊32'30	
min. Earth dist.	5970 Sep 21 08:18	6°♊55'22	0.58023 AU	min. Earth dist.	5971 Sep 02 19:58	17°♊34'42	0.56245 AU
inferior conj	5970 Sep 24 10:58	4°♊44'51	-5°12'41	inferior conj	5971 Sep 05 05:21	16°♊06'28	-5°20'11
minimum elong	5970 Sep 24 14:50	4°♊38'03	5°12'18	minimum elong	5971 Sep 05 03:12	16°♊09'46	5°20'05
morning rise	5970 Oct 02 12:26	0°♊26'45		morning rise	5971 Sep 13 13:38	12°♊08'18	
direct	5970 Oct 04 23:07	0°♊08'14		direct	5971 Sep 16 07:24	11°♊48'53	
morning max el	5970 Oct 13 12:40	4°♊13'18	18°49'28	morning max el	5971 Sep 26 06:41	16°♊28'22	19°50'59
asc. node	5970 Oct 15 16:57	6°♊32'44		asc. node	5971 Oct 02 13:58	24°♊07'54	
morning set	5970 Oct 29 23:11	0°♊32'59			5971 Oct 06 05:28	0°♊	
	5970 Oct 29 16:26	0°♊		morning set	5971 Oct 14 02:58	15°♊04'58	
					5971 Oct 21 11:32	0°♊	
superior conj	5970 Nov 07 11:42	17°♊07'20	1°24'46	superior conj	5971 Oct 21 22:13	0°♊53'15	1°37'52
minimum elong	5970 Nov 07 14:52	17°♊22'19	1°24'29	minimum elong	5971 Oct 21 23:59	1°♊02'01	1°37'47
	5970 Nov 14 11:59	0°♊		max. Earth dist.	5971 Oct 27 18:44	12°♊13'09	1.37222 AU
max. Earth dist.	5970 Nov 14 13:39	0°♊07'23	1.39322 AU	evening rise	5971 Oct 31 13:17	19°♊08'37	
evening rise	5970 Nov 18 12:00	6°♊57'04			5971 Nov 06 19:56	0°♊	
desc. node	5970 Nov 20 14:21	10°♊29'02		desc. node	5971 Nov 07 11:23	1°♊04'08	
	5970 Dec 03 00:47	0°♊			5971 Nov 27 04:38	0°♊	
evening max el	5970 Dec 23 17:02	26°♊32'49	24°17'55	evening max el	5971 Dec 06 05:42	10°♊17'28	25°32'02
	5970 Dec 27 14:29	0°♊		retrograde	5971 Dec 18 11:04	17°♊18'53	
retrograde	5971 Jan 03 23:37	3°♊09'35		evening set	5971 Dec 24 09:09	14°♊51'48	
evening set	5971 Jan 09 08:28	0°♊55'17		min. Earth dist.	5971 Dec 28 18:20	10°♊03'46	0.67246 AU
	5971 Jan 10 08:20	30°♊3		asc. node	5971 Dec 29 13:14	9°♊03'17	
asc. node	5971 Jan 11 16:12	28°♊33'17		inferior conj	5971 Dec 30 00:37	8°♊26'41	0°09'38
min. Earth dist.	5971 Jan 14 00:55	25°♊32'53	0.67896 AU	minimum elong	5971 Dec 30 00:22	8°♊27'28	0°09'33
inferior conj	5971 Jan 14 20:10	24°♊28'09	1°02'46	transit middle	5971 Dec 30 00:22	8°♊27'28	0°09'33
minimum elong	5971 Jan 14 18:45	24°♊32'57	1°02'14	transit begin	5971 Dec 29 22:06	8°♊34'44	
morning rise	5971 Jan 20 05:07	18°♊26'14		transit end	5971 Dec 30 02:38	8°♊20'12	
direct	5971 Jan 24 01:46	17°♊01'13		morning rise	5972 Jan 04 15:57	2°♊32'28	
morning max el	5971 Jan 31 19:50	21°♊25'20	20°14'07	direct	5972 Jan 08 00:39	1°♊27'22	
	5971 Feb 07 23:29	0°♊		morning max el	5972 Jan 15 01:05	5°♊21'03	19°13'06
desc. node	5971 Feb 16 13:36	12°♊13'39		greatest brilliancy	5972 Jan 28 12:49	23°♊27'20	-0.7m
	5971 Feb 28 07:16	0°♊			5972 Feb 01 19:47	0°♊	
morning set	5971 Feb 28 14:01	0°♊26'07		desc. node	5972 Feb 03 10:37	2°♊29'26	
max. Earth dist.	5971 Mar 10 15:29	16°♊15'17	1.43757 AU	morning set	5972 Feb 07 14:39	8°♊56'10	
				max. Earth dist.	5972 Feb 21 05:47	0°♊12'42	1.44921 AU
					5972 Feb 21 02:34	0°♊	
superior conj	5971 Mar 16 13:26	25°♊51'42	-2°09'36				
minimum elong	5971 Mar 16 12:20	25°♊47'11	2°09'34	superior conj	5972 Feb 24 07:16	5°♊03'09	-1°56'22
	5971 Mar 19 01:21	0°♊		minimum elong	5972 Feb 23 23:46	4°♊33'25	1°55'52
evening rise	5971 Mar 29 07:17	17°♊29'03		evening rise	5972 Mar 09 19:32	28°♊33'15	
	5971 Apr 05 13:40	0°♊			5972 Mar 10 16:33	0°♊	
asc. node	5971 Apr 09 15:28	6°♊35'11		asc. node	5972 Mar 26 12:29	24°♊46'13	
evening max el	5971 Apr 15 20:12	14°♊38'11	18°08'06	evening max el	5972 Mar 29 08:47	28°♊02'37	18°25'41
retrograde	5971 Apr 22 06:43	18°♊00'06			5972 Mar 31 15:10	0°♊	
evening set	5971 Apr 25 02:02	17°♊20'30		retrograde	5972 Apr 04 19:59	1°♊32'58	
inferior conj	5971 May 01 07:53	12°♊09'48	3°14'08	evening set	5972 Apr 07 21:53	0°♊40'36	
minimum elong	5971 May 01 09:56	12°♊04'24	3°13'50		5972 Apr 08 23:01	30°♊	
min. Earth dist.	5971 May 04 04:39	9°♊09'59	0.62436 AU	inferior conj	5972 Apr 13 17:46	25°♊11'48	3°29'17
morning rise	5971 May 07 16:15	6°♊04'49		minimum elong	5972 Apr 13 18:16	25°♊10'21	3°29'14
direct	5971 May 14 11:52	3°♊33'50		min. Earth dist.	5972 Apr 15 23:45	22°♊34'38	0.64394 AU
desc. node	5971 May 15 12:53	3°♊37'07		morning rise	5972 Apr 19 13:49	18°♊59'25	
morning max el	5971 May 28 13:58	11°♊35'21	27°52'49	direct	5972 Apr 26 08:03	16°♊12'51	
	5971 Jun 12 02:30	0°♊		desc. node	5972 May 01 09:53	17°♊31'53	
	5971 Jun 29 10:20	0°♊					

morning max el	5972 May 09 23:13	24°  10'19	27°26'55	minimum elong	5973 Mar 28 12:24	8°  36'08	3°27'27
	5972 May 15 04:57	0° 		min. Earth dist.	5973 Mar 30 03:38	6°  32'07	0.65984 AU
	5972 Jun 04 11:46	0° 		morning rise	5973 Apr 03 00:27	2°  18'17	
morning set	5972 Jun 14 04:22	17°  51'43			5973 Apr 06 16:11	30°  R 	
max. Earth dist.	5972 Jun 18 23:04	27°  30'46	1.33282 AU	direct	5973 Apr 09 10:59	29°  H  29'41	
	5972 Jun 20 03:43	0° 			5973 Apr 12 09:46	0° 	
				desc. node	5973 Apr 18 06:55	3°  Y  26'01	
superior conj	5972 Jun 22 06:34	4°  28'29	-0°02'15	morning max el	5973 Apr 22 09:14	7°  Y  09'53	26°31'00
minimum elong	5972 Jun 22 06:40	4°  29'05	0°02'14		5973 May 10 01:41	0° 	
behind sun begin	5972 Jun 22 01:16	4°  20'18			5973 May 27 20:50	0° 	
behind sun end	5972 Jun 22 12:05	4°  27'55		morning set	5973 May 28 09:15	0°  H  58'20	
asc. node	5972 Jun 22 11:44	4°  26'03		max. Earth dist.	5973 Jun 01 11:45	8°  H  53'42	1.34671 AU
evening rise	5972 Jun 29 10:18	19°  24'00					
	5972 Jul 04 10:17	0° 		superior conj	5973 Jun 06 05:06	18°  H  26'10	-0°31'53
evening max el	5972 Jul 20 22:52	24°  24'52	22°24'49	minimum elong	5973 Jun 06 06:52	18°  H  35'14	0°31'33
desc. node	5972 Jul 28 09:09	0°  M  01'04		asc. node	5973 Jun 09 08:46	24°  H  59'29	
	5972 Jul 28 08:10	0° 			5973 Jun 11 18:06	0° 	
retrograde	5972 Aug 02 23:19	1°  M  13'23		evening rise	5973 Jun 13 19:24	4°  21'07	
evening set	5972 Aug 06 02:55	0°  M  51'33			5973 Jun 28 05:41	0° 	
	5972 Aug 08 20:49	30°  R  2		evening max el	5973 Jul 02 20:49	5°  23'51	20°55'09
min. Earth dist.	5972 Aug 14 05:42	27°  21'29	0.55074 AU	retrograde	5973 Jul 14 11:38	11°  20'16	
inferior conj	5972 Aug 15 06:06	26°  24'56	-4°38'31	desc. node	5973 Jul 15 06:10	11°  20'54	
minimum elong	5972 Aug 14 22:00	26°  25'25	4°36'52	evening set	5973 Jul 16 15:34	10°  25'08	
morning rise	5972 Aug 23 18:56	22°  25'30		inferior conj	5973 Jul 25 22:58	6°  28'58	-3°06'31
direct	5972 Aug 26 22:56	22°  32'45		minimum elong	5973 Jul 25 14:46	7°  21'35	3°03'51
morning max el	5972 Sep 07 12:16	27°  25'43	21°13'48	min. Earth dist.	5973 Jul 26 15:53	6°  23'02	0.54778 AU
	5972 Sep 09 13:13	0° 		morning rise	5973 Aug 03 14:02	2°  29'52	
asc. node	5972 Sep 18 11:00	12°  M  30'25		direct	5973 Aug 07 07:45	2°  29'53	
morning set	5972 Sep 27 11:21	29°  M  49'33		morning max el	5973 Aug 20 07:02	8°  24'53	22°53'03
	5972 Sep 27 13:22	0° 			5973 Sep 04 12:52	0° 	
				asc. node	5973 Sep 05 08:02	1°  M  28'32	
superior conj	5972 Oct 04 19:14	15°  20'34	1°42'49	morning set	5973 Sep 11 22:17	14°  M  40'31	
minimum elong	5972 Oct 04 19:30	15°  21'00	1°42'50				
max. Earth dist.	5972 Oct 09 04:52	24°  20'08	1.35345 AU	superior conj	5973 Sep 18 23:24	29°  M  45'57	1°40'49
	5972 Oct 12 05:24	0° 		minimum elong	5973 Sep 18 22:26	29°  M  40'46	1°40'47
evening rise	5972 Oct 13 08:51	2°  M  10'32			5973 Sep 19 02:02	0° 	
desc. node	5972 Oct 24 08:24	21°  M  26'38		max. Earth dist.	5973 Sep 21 23:25	6°  20'33	1.33831 AU
	5972 Oct 29 19:36	0° 		evening rise	5973 Sep 26 18:30	15°  21'10	
evening max el	5972 Nov 17 18:42	24°  20'45	26°33'11		5973 Oct 04 08:18	0° 	
	5972 Nov 25 19:02	0° 		desc. node	5973 Oct 11 05:25	11°  M  29'53	
retrograde	5972 Nov 30 17:12	1°  21'52			5973 Oct 24 09:46	0° 	
	5972 Dec 05 05:27	30°  R  2		evening max el	5973 Oct 31 07:28	7°  23'02	27°13'57
evening set	5972 Dec 07 04:01	28°  23'39'10		retrograde	5973 Nov 13 17:18	14°  23'50'11	
min. Earth dist.	5972 Dec 11 06:38	24°  26'13	0.66242 AU	evening set	5973 Nov 20 14:44	12°  23'11'19	
inferior conj	5972 Dec 13 00:18	22°  21'24	-0°49'14	min. Earth dist.	5973 Nov 24 11:24	8°  23'33'09	0.64890 AU
minimum elong	5972 Dec 13 01:40	22°  21'18	0°48'37	inferior conj	5973 Nov 26 16:55	6°  20'6'18	-1°52'27
asc. node	5972 Dec 15 10:14	19°  23'35'09		minimum elong	5973 Nov 26 20:14	5°  27'12	1°51'05
morning rise	5972 Dec 19 00:04	16°  23'37'30		asc. node	5973 Dec 02 07:16	1°  20'1'18	
direct	5972 Dec 21 22:45	15°  24'48'49		morning rise	5973 Dec 03 02:55	0°  23'35'47	
morning max el	5972 Dec 28 12:53	19°  23'18	18°28'07	direct	5973 Dec 05 17:45	29°  M  59'44	
	5973 Jan 05 17:06	0° 			5973 Dec 05 12:24	30°  R  M 	
morning set	5973 Jan 17 15:04	18°  24'29'29			5973 Dec 05 23:05	0° 	
desc. node	5973 Jan 20 07:39	22°  25'39'31		morning max el	5973 Dec 12 04:44	3°  25'04	17°59'55
	5973 Jan 24 17:44	0° 		morning set	5973 Dec 29 21:04	29°  23'56'46	
					5973 Dec 29 21:50	0° 	
superior conj	5973 Feb 02 11:17	13°  23'56	-1°23'47	desc. node	5974 Jan 07 04:39	13°  23'38'41	
minimum elong	5973 Feb 02 02:01	13°  27'40	1°22'46				
max. Earth dist.	5973 Feb 03 00:29	14°  23'54'41	1.45385 AU	superior conj	5974 Jan 12 20:53	22°  23'46'44	-0°39'09
	5973 Feb 12 20:12	0° 		minimum elong	5974 Jan 12 16:09	22°  23'27'52	0°38'28
evening rise	5973 Feb 18 08:32	8°  24'41'50		max. Earth dist.	5974 Jan 16 20:17	29°  23'04'37	1.45094 AU
greatest brilliancy	5973 Feb 27 23:08	23°  24'51'09	-0.8m		5974 Jan 17 10:21	0° 	
	5973 Mar 03 23:25	0° 		evening rise	5974 Jan 29 02:17	18°  23'08'26	
evening max el	5973 Mar 12 18:48	11°  23'34'06	19°00'54		5974 Feb 05 19:58	0° 	
asc. node	5973 Mar 13 09:30	12°  23'10'19		greatest brilliancy	5974 Feb 12 03:59	9°  23'31'27	-0.6m
retrograde	5973 Mar 19 15:00	15°  23'24'50		evening max el	5974 Feb 24 00:19	25°  23'08'20	19°52'21
evening set	5973 Mar 22 23:57	14°  23'18'52		asc. node	5974 Feb 28 06:31	28°  23'34'06	
inferior conj	5973 Mar 28 13:15	8°  23'33'25	3°27'31	retrograde	5974 Mar 03 12:51	29°  23'29'52	



evening set	5974 Mar 07 05:48	28° <del>✕</del> 09'36		evening set	5975 Feb 19 13:26	12° <del>✕</del> 07'57	
inferior conj	5974 Mar 12 15:18	22° <del>✕</del> 09'30	3°12'40	inferior conj	5975 Feb 24 21:23	5° <del>✕</del> 55'45	2°47'12
minimum elong	5974 Mar 12 13:30	22° <del>✕</del> 15'33	3°12'23	minimum elong	5975 Feb 24 19:06	6° <del>✕</del> 03'41	2°46'40
min. Earth dist.	5974 Mar 13 15:00	20° <del>✕</del> 50'13	0.67140 AU	min. Earth dist.	5975 Feb 25 07:50	5° <del>✕</del> 19'42	0.67862 AU
morning rise	5974 Mar 17 20:59	15° <del>✕</del> 54'15			5975 Mar 01 16:50	30° <del>℞</del> ≈	
direct	5974 Mar 23 19:38	13° <del>✕</del> 14'58		morning rise	5975 Mar 02 00:35	29°≈42'07	
morning max el	5974 Apr 04 18:32	20° <del>✕</del> 23'47	25°14'06	direct	5975 Mar 07 09:19	27°≈20'01	
desc. node	5974 Apr 05 03:57	20° <del>✕</del> 47'49			5975 Mar 13 21:48	0° <del>✕</del>	
	5974 Apr 13 00:27	0° <del>Υ</del>		morning max el	5975 Mar 18 03:26	3° <del>✕</del> 44'51	23°46'16
	5974 May 03 05:46	0° <del>♄</del>		desc. node	5975 Mar 23 00:58	9° <del>✕</del> 12'17	
morning set	5974 May 10 22:08	13° <del>♄</del> 15'59			5975 Apr 07 05:35	0° <del>Υ</del>	
max. Earth dist.	5974 May 14 13:59	19° <del>♄</del> 58'33	1.36497 AU	morning set	5975 Apr 22 13:19	24° <del>Υ</del> 28'59	
	5974 May 19 19:28	0° <del>♅</del>			5975 Apr 25 17:46	0° <del>♄</del>	
				max. Earth dist.	5975 Apr 26 09:52	1° <del>♄</del> 10'58	1.38630 AU
superior conj	5974 May 20 18:24	1° <del>♅</del> 53'03	-1°02'14	superior conj	5975 May 03 18:47	14° <del>♄</del> 39'18	-1°31'01
minimum elong	5974 May 20 21:57	2° <del>♅</del> 10'37	1°01'39	minimum elong	5975 May 03 23:45	15° <del>♄</del> 02'43	1°30'23
asc. node	5974 May 27 05:47	14° <del>♅</del> 55'45			5975 May 11 17:26	0° <del>♅</del>	
evening rise	5974 May 29 00:04	18° <del>♅</del> 30'03		evening rise	5975 May 12 21:35	2° <del>♅</del> 17'36	
	5974 Jun 03 21:17	0° <del>♄</del>		asc. node	5975 May 14 02:50	4° <del>♅</del> 39'56	
evening max el	5974 Jun 15 07:18	16° <del>♄</del> 42'33	19°42'39	evening max el	5975 May 29 05:30	28° <del>♅</del> 43'22	18°50'22
retrograde	5974 Jun 25 04:58	21° <del>♄</del> 33'56			5975 May 30 15:37	0° <del>♄</del>	
evening set	5974 Jun 27 02:28	21° <del>♄</del> 24'02		retrograde	5975 Jun 06 13:48	2° <del>♄</del> 49'40	
desc. node	5974 Jul 02 03:12	19° <del>♄</del> 34'51		evening set	5975 Jun 08 15:18	2° <del>♄</del> 35'35	
inferior conj	5974 Jul 05 22:39	17° <del>♄</del> 21'08	-1°08'50		5975 Jun 14 04:57	30° <del>℞</del> ♅	
minimum elong	5974 Jul 05 19:29	17° <del>♄</del> 26'03	1°07'41	inferior conj	5975 Jun 16 16:23	28° <del>♅</del> 16'39	0°40'52
min. Earth dist.	5974 Jul 08 04:25	15° <del>♄</del> 57'38	0.55442 AU	minimum elong	5975 Jun 16 17:57	28° <del>♅</del> 13'50	0°40'16
morning rise	5974 Jul 14 10:19	12° <del>♄</del> 53'03		desc. node	5975 Jun 19 00:14	26° <del>♅</del> 35'35	
direct	5974 Jul 18 22:40	12° <del>♄</del> 07'56		min. Earth dist.	5975 Jun 19 20:39	25° <del>♅</del> 59'45	0.56944 AU
morning max el	5974 Aug 01 20:41	19° <del>♄</del> 03'25	24°37'31	morning rise	5975 Jun 24 17:11	23° <del>♅</del> 11'42	
	5974 Aug 11 00:51	0° <del>♅</del>		direct	5975 Jun 30 03:32	22° <del>♅</del> 00'20	
asc. node	5974 Aug 23 05:04	20° <del>♅</del> 53'04		morning max el	5975 Jul 14 11:35	29° <del>♅</del> 28'19	26°11'17
morning set	5974 Aug 27 10:03	29° <del>♅</del> 32'50			5975 Jul 15 00:32	0° <del>♄</del>	
	5974 Aug 27 15:10	0° <del>♄</del>			5975 Aug 04 17:09	0° <del>♅</del>	
superior conj	5974 Sep 03 08:11	14° <del>♄</del> 34'38	1°32'50	asc. node	5975 Aug 10 02:07	10° <del>♅</del> 36'02	
minimum elong	5974 Sep 03 06:21	14° <del>♄</del> 24'38	1°32'39	morning set	5975 Aug 11 20:59	14° <del>♅</del> 20'27	
max. Earth dist.	5974 Sep 05 02:14	18° <del>♄</del> 23'04	1.32736 AU	superior conj	5975 Aug 18 19:25	29° <del>♅</del> 27'51	1°19'35
evening rise	5974 Sep 10 14:37	0° <del>♄</del> 00'44		minimum elong	5975 Aug 18 17:10	29° <del>♅</del> 15'26	1°19'15
	5974 Sep 10 14:28	0° <del>♄</del>			5975 Aug 19 01:15	0° <del>♄</del>	
	5974 Sep 27 09:09	0° <del>♅</del>		max. Earth dist.	5975 Aug 19 10:43	0° <del>♄</del> 52'16	1.32075 AU
desc. node	5974 Sep 28 02:27	1° <del>♅</del> 05'45		evening rise	5975 Aug 25 18:03	14° <del>♄</del> 29'36	
evening max el	5974 Oct 13 18:18	20° <del>♅</del> 39'08	27°27'37		5975 Sep 02 14:59	0° <del>♄</del>	
retrograde	5974 Oct 27 11:02	27° <del>♅</del> 55'32		desc. node	5975 Sep 14 23:29	20° <del>♄</del> 02'21	
evening set	5974 Nov 03 14:31	25° <del>♅</del> 22'45			5975 Sep 22 22:36	0° <del>♅</del>	
min. Earth dist.	5974 Nov 07 06:40	22° <del>♅</del> 16'08	0.63211 AU	evening max el	5975 Sep 26 00:50	3° <del>♅</del> 08'53	27°09'20
inferior conj	5974 Nov 09 23:50	19° <del>♅</del> 35'23	-2°57'34	retrograde	5975 Oct 09 21:41	10° <del>♅</del> 21'12	
minimum elong	5974 Nov 10 05:06	19° <del>♅</del> 22'23	2°55'39	evening set	5975 Oct 16 23:34	8° <del>♅</del> 06'14	
morning rise	5974 Nov 16 21:22	14° <del>♅</del> 21'36		min. Earth dist.	5975 Oct 20 15:26	5° <del>♅</del> 22'45	0.61257 AU
direct	5974 Nov 19 06:45	13° <del>♅</del> 54'31		inferior conj	5975 Oct 23 17:52	2° <del>♅</del> 40'28	-4°00'10
asc. node	5974 Nov 19 04:19	13° <del>♅</del> 54'34		minimum elong	5975 Oct 24 00:23	2° <del>♅</del> 26'14	3°58'19
morning max el	5974 Nov 25 21:45	17° <del>♅</del> 19'43	17°49'05		5975 Oct 27 00:06	30° <del>℞</del> ♄	
	5974 Dec 04 23:36	0° <del>♄</del>		morning rise	5975 Oct 31 03:15	27° <del>♄</del> 46'33	
morning set	5974 Dec 12 04:15	12° <del>♄</del> 23'35		direct	5975 Nov 02 10:08	27° <del>♄</del> 25'05	
	5974 Dec 22 10:17	0° <del>♄</del>		asc. node	5975 Nov 06 01:22	28° <del>♄</del> 21'38	
superior conj	5974 Dec 24 04:21	2° <del>♄</del> 55'15	0°06'20		5975 Nov 08 10:55	0° <del>♅</del>	
minimum elong	5974 Dec 24 05:01	2° <del>♄</del> 57'58	0°06'16	morning max el	5975 Nov 09 12:43	0° <del>♅</del> 58'49	17°56'42
behind sun begin	5974 Dec 23 20:17	2° <del>♄</del> 21'45		morning set	5975 Nov 25 06:10	25° <del>♅</del> 43'40	
behind sun end	5974 Dec 24 13:44	3° <del>♄</del> 34'05			5975 Nov 27 14:08	0° <del>♄</del>	
desc. node	5974 Dec 25 01:40	4° <del>♄</del> 23'22		superior conj	5975 Dec 05 14:11	14° <del>♄</del> 20'24	0°44'40
max. Earth dist.	5974 Dec 30 13:51	13° <del>♄</del> 20'26	1.44096 AU	minimum elong	5975 Dec 05 17:37	14° <del>♄</del> 35'18	0°44'13
evening rise	5975 Jan 08 12:39	27° <del>♄</del> 23'40		desc. node	5975 Dec 11 22:43	25° <del>♄</del> 10'19	
	5975 Jan 10 05:21	0°≈		max. Earth dist.	5975 Dec 13 02:51	27° <del>♄</del> 06'50	1.42512 AU
	5975 Jan 10 18:23	0° <del>✕</del>			5975 Dec 14 21:05	0° <del>♄</del>	
evening max el	5975 Feb 07 00:21	8° <del>✕</del> 43'26	20°57'33	evening rise	5975 Dec 19 07:27	7° <del>♄</del> 06'44	
retrograde	5975 Feb 15 11:12	13° <del>✕</del> 43'00			5976 Jan 03 11:05	0°≈	
asc. node	5975 Feb 15 03:34	13° <del>✕</del> 42'28					

evening max el	5976 Jan 20 19:12	22°  20'30	22°12'38	evening set	5977 Jan 18 03:22	10°  12'56	
retrograde	5976 Jan 30 08:07	28°  00'40		asc. node	5977 Jan 18 21:40	9°  31'30	
asc. node	5976 Feb 02 00:37	27°  22'52		min. Earth dist.	5977 Jan 23 00:38	4°  30'55	0.68108 AU
evening set	5976 Feb 03 21:09	26°  10'21		inferior conj	5977 Jan 23 13:28	3°  47'00	1°30'26
inferior conj	5976 Feb 09 05:25	19°  49'24	2°12'47	minimum elong	5977 Jan 23 11:35	3°  53'28	1°29'46
minimum elong	5976 Feb 09 03:06	19°  57'29	2°12'04		5977 Jan 26 11:29	30°  R 	
min. Earth dist.	5976 Feb 09 03:52	19°  54'49	0.68176 AU	morning rise	5977 Jan 28 19:44	27°  34'21	
morning rise	5976 Feb 14 08:53	13°  38'54		direct	5977 Feb 02 00:03	26°  30'26	
direct	5976 Feb 19 03:10	11°  38'15			5977 Feb 09 10:34	0° 	
morning max el	5976 Feb 28 14:30	17°  12'36	22°17'27	morning max el	5977 Feb 10 07:18	0°  50'11	20°55'40
desc. node	5976 Mar 08 21:59	28°  21'51		desc. node	5977 Feb 23 19:00	18°  33'37	
	5976 Mar 10 03:10	0°  X			5977 Mar 03 21:42	0°  X	
	5976 Mar 30 07:43	0°  Y		morning set	5977 Mar 12 10:14	13°  X04'21	
morning set	5976 Apr 02 01:22	4°  Y24'05		max. Earth dist.	5977 Mar 20 10:23	25°  X50'07	1.42825 AU
max. Earth dist.	5976 Apr 07 06:43	13°  Y02'34	1.40834 AU		5977 Mar 22 23:22	0°  Y	
superior conj	5976 Apr 15 01:48	26°  Y34'47	-1°54'43	superior conj	5977 Mar 27 10:30	7°  Y27'48	-2°08'29
minimum elong	5976 Apr 15 06:47	26°  Y57'03	1°54'20	minimum elong	5977 Mar 27 12:38	7°  Y36'50	2°08'25
	5976 Apr 16 23:25	0°  8		evening rise	5977 Apr 08 04:47	28°  Y01'15	
evening rise	5976 Apr 25 08:34	15°  831'24			5977 Apr 09 07:23	0°  8	
asc. node	5976 Apr 29 23:53	24°  807'17		asc. node	5977 Apr 16 20:55	13°  811'08	
	5976 May 03 07:58	0°  II		evening max el	5977 Apr 24 23:46	24°  821'29	18°06'24
evening max el	5976 May 11 12:14	11°  II19'48	18°18'30	retrograde	5977 May 01 13:52	27°  844'04	
retrograde	5976 May 18 17:32	14°  II56'03		evening set	5977 May 04 05:34	27°  811'07	
evening set	5976 May 21 02:12	14°  II33'49		inferior conj	5977 May 10 18:53	22°  811'31	2°55'48
inferior conj	5976 May 28 07:49	9°  II54'44	2°03'19	minimum elong	5977 May 10 21:44	22°  804'34	2°55'13
minimum elong	5976 May 28 11:09	9°  II47'40	2°02'19	min. Earth dist.	5977 May 13 22:41	19°  807'39	0.61205 AU
min. Earth dist.	5976 May 31 18:06	7°  II02'07	0.58985 AU	morning rise	5977 May 17 11:50	16°  814'31	
morning rise	5976 Jun 04 17:02	4°  II18'35		desc. node	5977 May 22 18:16	14°  804'17	
desc. node	5976 Jun 04 21:15	4°  II12'50		direct	5977 May 24 04:54	13°  858'07	
direct	5976 Jun 10 22:36	2°  II33'47		morning max el	5977 Jun 07 10:32	21°  856'15	27°51'26
morning max el	5976 Jun 25 07:50	10°  II21'39	27°19'03		5977 Jun 14 11:57	0°  II	
	5976 Jul 10 11:49	0°  6			5977 Jul 03 13:57	0°  6	
morning set	5976 Jul 26 05:26	28°  658'30		morning set	5977 Jul 10 09:33	13°  621'28	
asc. node	5976 Jul 26 23:10	0°  831'53		asc. node	5977 Jul 13 20:12	20°  635'41	
	5976 Jul 26 17:08	0°  8		max. Earth dist.	5977 Jul 16 07:17	25°  655'10	1.32055 AU
superior conj	5976 Aug 02 07:15	14°  819'46	1°01'40	superior conj	5977 Jul 17 17:54	29°  604'42	0°39'35
minimum elong	5976 Aug 02 05:03	14°  807'35	1°01'15	minimum elong	5977 Jul 17 16:14	28°  655'31	0°39'13
max. Earth dist.	5976 Aug 01 21:37	13°  826'32	1.31850 AU		5977 Jul 18 03:58	0°  8	
evening rise	5976 Aug 09 02:21	29°  810'34		evening rise	5977 Jul 24 13:22	13°  857'04	
	5976 Aug 09 11:40	0°  np			5977 Aug 01 13:32	0°  np	
	5976 Aug 25 23:26	0°  u		desc. node	5977 Aug 18 17:32	24°  np48'47	
desc. node	5976 Aug 31 20:31	8°  u03'56		evening max el	5977 Aug 19 17:08	25°  np46'55	24°57'13
evening max el	5976 Sep 07 00:44	14°  u51'45	26°17'33		5977 Aug 24 23:54	0°  u	
retrograde	5976 Sep 20 23:37	21°  u59'02		retrograde	5977 Sep 02 14:38	2°  u47'42	
evening set	5976 Sep 27 13:02	20°  u13'55		evening set	5977 Sep 08 02:34	1°  u39'20	
min. Earth dist.	5976 Oct 01 14:01	17°  u39'10	0.59180 AU		5977 Sep 11 10:16	30°  R 	
inferior conj	5976 Oct 04 19:28	15°  u12'02	-4°52'20	min. Earth dist.	5977 Sep 13 04:31	28°  np55'15	0.57212 AU
minimum elong	5976 Oct 05 01:15	15°  u01'00	4°51'19	inferior conj	5977 Sep 16 01:39	27°  np01'15	-5°21'02
morning rise	5976 Oct 12 15:41	10°  u40'20		minimum elong	5977 Sep 16 03:18	26°  np58'30	5°20'58
direct	5976 Oct 14 23:46	10°  u21'28		morning rise	5977 Sep 24 06:18	22°  np52'05	
asc. node	5976 Oct 22 22:26	14°  u13'24		direct	5977 Sep 26 19:44	22°  np33'18	
morning max el	5976 Oct 22 22:07	14°  u12'40	18°24'08	morning max el	5977 Oct 05 22:33	26°  np51'46	19°12'56
	5976 Nov 02 17:36	0°  m			5977 Oct 08 19:44	0°  u	
morning set	5976 Nov 07 21:15	9°  m40'30		asc. node	5977 Oct 09 19:28	1°  u15'25	
				morning set	5977 Oct 22 21:20	24°  u02'41	
superior conj	5976 Nov 16 23:02	26°  m51'38	1°13'01		5977 Oct 25 20:58	0°  m	
minimum elong	5976 Nov 17 02:43	27°  m08'35	1°12'37	superior conj	5977 Oct 31 01:38	10°  m14'39	1°31'24
	5976 Nov 18 16:13	0°  x		minimum elong	5977 Oct 31 04:15	10°  m27'18	1°31'12
max. Earth dist.	5976 Nov 24 10:59	10°  x13'30	1.40539 AU	max. Earth dist.	5977 Nov 06 16:27	22°  m40'25	1.38416 AU
desc. node	5976 Nov 27 19:44	15°  x55'39		evening rise	5977 Nov 10 10:53	29°  m22'24	
evening rise	5976 Nov 28 21:49	17°  x43'52			5977 Nov 10 19:32	0°  x	
	5976 Dec 06 14:01	0°  3		desc. node	5977 Nov 14 16:47	6°  x35'53	
	5976 Dec 28 00:22	0°  u			5977 Nov 29 22:55	0°  3	
evening max el	5977 Jan 02 10:16	6°  u00'51	23°32'27	evening max el	5977 Dec 15 23:25	19°  344'52	24°50'34
retrograde	5977 Jan 13 02:05	12°  u18'31					

retrograde	5977 Dec 27 16:00	26° $\text{Z}$ 32'39		5978 Nov 03 08:38	0° $\text{Z}$	
evening set	5978 Jan 02 06:33	24° $\text{Z}$ 12'38		5978 Nov 25 03:38	0° $\text{Z}$	
asc. node	5978 Jan 05 18:41	20° $\text{Z}$ 26'03		evening max el	5978 Nov 28 12:04	3° $\text{Z}$ 29'01 26°00'01
min. Earth dist.	5978 Jan 06 19:52	19° $\text{Z}$ 04'53 0.67670 AU		retrograde	5978 Dec 11 01:11	10° $\text{Z}$ 37'08
inferior conj	5978 Jan 07 19:45	17° $\text{Z}$ 46'02 0°41'02		evening set	5978 Dec 17 05:00	8° $\text{Z}$ 05'22
minimum elong	5978 Jan 07 18:46	17° $\text{Z}$ 49'17 0°40'39		min. Earth dist.	5978 Dec 21 11:14	3° $\text{Z}$ 32'30 0.66865 AU
morning rise	5978 Jan 13 07:09	11° $\text{Z}$ 47'10		inferior conj	5978 Dec 22 22:23	1° $\text{Z}$ 42'50 -0°14'42
direct	5978 Jan 16 22:37	10° $\text{Z}$ 30'50		minimum elong	5978 Dec 22 22:47	1° $\text{Z}$ 41'37 0°14'31
morning max el	5978 Jan 24 08:04	14° $\text{Z}$ 40'04 19°46'17		transit middle	5978 Dec 22 22:47	1° $\text{Z}$ 41'37 0°14'31
	5978 Feb 05 04:24	0° $\approx$		transit begin	5978 Dec 22 21:32	1° $\text{Z}$ 45'29
greatest brilliancy	5978 Feb 06 08:24	1° $\approx$ 42'36 -0.6m		transit end	5978 Dec 23 00:01	1° $\text{Z}$ 37'46
desc. node	5978 Feb 10 16:01	8° $\approx$ 09'00		asc. node	5978 Dec 23 15:42	0° $\text{Z}$ 49'06
morning set	5978 Feb 19 06:40	21° $\approx$ 17'19			5978 Dec 24 07:55	30° $\text{R}$ $\text{Z}$
	5978 Feb 24 21:27	0° $\text{H}$		morning rise	5978 Dec 28 17:06	25° $\text{Z}$ 52'59
max. Earth dist.	5978 Mar 02 21:52	9° $\text{H}$ 28'34 1.44343 AU		direct	5978 Dec 31 21:19	24° $\text{Z}$ 55'22
				morning max el	5979 Jan 07 16:25	28° $\text{Z}$ 39'17 18°52'02
superior conj	5978 Mar 07 17:50	17° $\text{H}$ 13'19 -2°06'27			5979 Jan 08 23:05	0° $\text{Z}$
minimum elong	5978 Mar 07 13:53	16° $\text{H}$ 57'22 2°06'19		desc. node	5979 Jan 28 13:03	28° $\text{Z}$ 31'22
	5978 Mar 15 12:28	0° $\text{Y}$			5979 Jan 29 11:43	0° $\approx$
evening rise	5978 Mar 21 05:52	9° $\text{Y}$ 38'51		morning set	5979 Jan 29 15:38	0° $\approx$ 15'20
	5978 Apr 02 13:33	0° $\text{B}$		max. Earth dist.	5979 Feb 13 14:40	23° $\approx$ 40'03 1.45206 AU
asc. node	5978 Apr 03 17:56	1° $\text{B}$ 44'05				
evening max el	5978 Apr 08 12:45	7° $\text{B}$ 39'36 18°13'18		superior conj	5979 Feb 15 03:47	26° $\approx$ 05'54 -1°44'40
retrograde	5978 Apr 14 22:21	11° $\text{B}$ 03'26		minimum elong	5979 Feb 14 18:39	25° $\approx$ 29'58 1°43'53
evening set	5978 Apr 17 20:32	10° $\text{B}$ 18'21			5979 Feb 17 15:13	0° $\text{H}$
inferior conj	5978 Apr 23 21:39	4° $\text{B}$ 59'29 3°22'55		evening rise	5979 Mar 02 08:17	20° $\text{H}$ 19'22
minimum elong	5978 Apr 23 23:02	4° $\text{B}$ 55'37 3°22'46			5979 Mar 08 07:38	0° $\text{Y}$
min. Earth dist.	5978 Apr 26 12:15	2° $\text{B}$ 07'34 0.63312 AU		asc. node	5979 Mar 21 14:56	19° $\text{Y}$ 36'51
	5978 Apr 28 15:36	30° $\text{R}$ $\text{Y}$		evening max el	5979 Mar 23 00:28	21° $\text{Y}$ 07'38 18°38'30
morning rise	5978 Apr 30 00:23	28° $\text{Y}$ 50'41		retrograde	5979 Mar 29 14:39	24° $\text{Y}$ 45'38
direct	5978 May 06 20:15	26° $\text{Y}$ 11'48		evening set	5979 Apr 01 19:24	23° $\text{Y}$ 47'36
desc. node	5978 May 09 15:17	26° $\text{Y}$ 35'38		inferior conj	5979 Apr 07 12:05	18° $\text{Y}$ 11'17 3°30'20
	5978 May 16 00:26	0° $\text{B}$		minimum elong	5979 Apr 07 11:58	18° $\text{Y}$ 11'38 3°30'19
morning max el	5978 May 20 18:16	4° $\text{B}$ 12'10 27°46'00		min. Earth dist.	5979 Apr 09 11:19	15° $\text{Y}$ 48'14 0.65116 AU
	5978 Jun 09 02:28	0° $\text{II}$		morning rise	5979 Apr 13 03:55	11° $\text{Y}$ 57'02
morning set	5978 Jun 24 07:03	27° $\text{II}$ 21'56		direct	5979 Apr 19 19:20	9° $\text{Y}$ 08'13
	5978 Jun 25 14:22	0° $\text{E}$		desc. node	5979 Apr 26 12:18	11° $\text{Y}$ 25'37
max. Earth dist.	5978 Jun 29 11:39	8° $\text{E}$ 04'59 1.32704 AU		morning max el	5979 May 03 04:26	17° $\text{Y}$ 00'28 27°06'24
asc. node	5978 Jun 30 17:12	10° $\text{E}$ 42'27			5979 May 13 23:39	0° $\text{B}$
					5979 Jun 01 23:03	0° $\text{II}$
superior conj	5978 Jul 02 01:31	13° $\text{E}$ 36'10 0°13'55		morning set	5979 Jun 07 19:06	10° $\text{II}$ 51'51
minimum elong	5978 Jul 02 00:51	13° $\text{E}$ 32'33 0°13'45		max. Earth dist.	5979 Jun 12 06:57	19° $\text{II}$ 46'28 1.33816 AU
behind sun begin	5978 Jul 01 22:09	13° $\text{E}$ 17'56				
behind sun end	5978 Jul 02 03:34	13° $\text{E}$ 47'11		superior conj	5979 Jun 16 04:05	27° $\text{II}$ 48'20 -0°14'36
evening rise	5978 Jul 09 01:08	28° $\text{E}$ 41'57		minimum elong	5979 Jun 16 04:52	27° $\text{II}$ 52'24 0°14'28
	5978 Jul 09 15:52	0° $\text{O}$		behind sun begin	5979 Jun 16 02:26	27° $\text{II}$ 39'39
	5978 Jul 26 19:20	0° $\text{M}$		behind sun end	5979 Jun 16 07:17	28° $\text{II}$ 05'10
evening max el	5978 Aug 01 05:13	6° $\text{M}$ 09'10 23°20'53			5979 Jun 17 05:04	0° $\text{E}$
desc. node	5978 Aug 05 14:33	9° $\text{M}$ 46'48		asc. node	5979 Jun 17 14:13	0° $\text{E}$ 48'23
retrograde	5978 Aug 14 17:18	12° $\text{M}$ 55'06		evening rise	5979 Jun 23 11:49	13° $\text{E}$ 19'26
evening set	5978 Aug 18 17:32	12° $\text{M}$ 19'54			5979 Jul 01 23:50	0° $\text{O}$
min. Earth dist.	5978 Aug 25 14:33	9° $\text{M}$ 09'20 0.55655 AU		evening max el	5979 Jul 13 21:16	16° $\text{O}$ 32'32 21°44'54
inferior conj	5978 Aug 27 11:48	8° $\text{M}$ 02'53 -5°09'08		desc. node	5979 Jul 23 11:32	22° $\text{O}$ 24'24
minimum elong	5978 Aug 27 06:44	8° $\text{M}$ 10'21 5°08'33		retrograde	5979 Jul 26 09:23	22° $\text{O}$ 44'25
morning rise	5978 Sep 04 22:16	4° $\text{M}$ 10'40		evening set	5979 Jul 29 00:36	22° $\text{O}$ 28'45
direct	5978 Sep 07 20:13	3° $\text{M}$ 50'06		inferior conj	5979 Aug 07 07:34	18° $\text{O}$ 27'24 -4°04'43
morning max el	5978 Sep 18 11:16	8° $\text{M}$ 46'51 20°23'50		minimum elong	5979 Aug 06 22:32	18° $\text{O}$ 40'02 4°02'21
asc. node	5978 Sep 26 16:29	19° $\text{M}$ 12'00		min. Earth dist.	5979 Aug 07 00:14	18° $\text{O}$ 37'39 0.54830 AU
	5978 Oct 02 19:01	0° $\text{A}$		morning rise	5979 Aug 15 21:47	14° $\text{O}$ 36'30
morning set	5978 Oct 07 03:20	8° $\text{A}$ 40'44		direct	5979 Aug 19 06:49	14° $\text{O}$ 11'35
				morning max el	5979 Aug 31 11:58	19° $\text{O}$ 55'58 21°54'33
superior conj	5978 Oct 14 17:04	24° $\text{A}$ 14'41 1°40'53			5979 Sep 08 18:43	0° $\text{M}$
minimum elong	5978 Oct 14 18:11	24° $\text{A}$ 20'20 1°40'52		asc. node	5979 Sep 13 13:32	7° $\text{M}$ 50'34
	5978 Oct 17 14:06	0° $\text{M}$		morning set	5979 Sep 21 13:01	23° $\text{M}$ 28'16
max. Earth dist.	5978 Oct 19 23:16	4° $\text{M}$ 38'29 1.36385 AU			5979 Sep 24 15:13	0° $\text{A}$
evening rise	5978 Oct 23 20:24	11° $\text{M}$ 56'00				
desc. node	5978 Nov 01 13:48	27° $\text{M}$ 05'57		superior conj	5979 Sep 28 17:30	8° $\text{A}$ 40'32 1°42'46

minimum elong	5979 Sep 28 17:13	8° $\Omega$ 38'59	1°42'46	superior conj	5980 Sep 11 23:58	23° $\Pi$ 23'07	1°38'07
max. Earth dist.	5979 Oct 02 12:28	16° $\Omega$ 30'53	1.34648 AU	minimum elong	5980 Sep 11 22:34	23° $\Pi$ 15'38	1°38'01
evening rise	5979 Oct 06 22:26	25° $\Omega$ 15'10		max. Earth dist.	5980 Sep 14 10:31	28° $\Pi$ 36'42	1.33311 AU
	5979 Oct 09 10:39	0° $\Pi$			5980 Sep 15 02:15	0° $\Omega$	
desc. node	5979 Oct 19 10:49	17° $\Pi$ 20'36		evening rise	5980 Sep 19 13:00	9° $\Omega$ 09'30	
	5979 Oct 27 20:03	0° $\Sigma$			5980 Sep 30 20:39	0° $\Pi$	
evening max el	5979 Nov 11 00:50	17° $\Sigma$ 07'12	26°53'24	desc. node	5980 Oct 05 07:49	7° $\Pi$ 13'12	
retrograde	5979 Nov 24 04:59	24° $\Sigma$ 25'00			5980 Oct 23 00:34	0° $\Sigma$	
evening set	5979 Nov 30 20:42	21° $\Sigma$ 46'32		evening max el	5980 Oct 23 13:05	0° $\Sigma$ 30'06	27°23'31
min. Earth dist.	5979 Dec 04 20:33	17° $\Sigma$ 48'41	0.65704 AU	retrograde	5980 Nov 06 02:44	7° $\Sigma$ 48'32	
inferior conj	5979 Dec 06 19:20	15° $\Sigma$ 33'20	-1°15'41	evening set	5980 Nov 13 03:14	5° $\Sigma$ 11'10	
minimum elong	5979 Dec 06 21:30	15° $\Sigma$ 27'04	1°14'44	min. Earth dist.	5980 Nov 16 21:43	1° $\Sigma$ 46'48	0.64205 AU
asc. node	5979 Dec 10 12:45	11° $\Sigma$ 37'33			5980 Nov 18 14:27	30° $\Pi$	
morning rise	5979 Dec 12 23:17	9° $\Sigma$ 54'57		inferior conj	5980 Nov 19 08:15	29° $\Pi$ 12'47	-2°20'05
direct	5979 Dec 15 18:15	9° $\Sigma$ 12'17		minimum elong	5980 Nov 19 12:25	29° $\Pi$ 01'49	2°18'26
morning max el	5979 Dec 22 06:20	12° $\Sigma$ 41'56	18°14'03	morning rise	5980 Nov 25 23:02	23° $\Pi$ 48'50	
	5980 Jan 03 14:41	0° $\Sigma$		asc. node	5980 Nov 26 09:49	23° $\Pi$ 38'33	
morning set	5980 Jan 10 04:39	10° $\Sigma$ 38'47		direct	5980 Nov 28 11:06	23° $\Pi$ 17'08	
desc. node	5980 Jan 15 10:05	19° $\Sigma$ 05'19		morning max el	5980 Dec 04 23:05	26° $\Pi$ 41'45	17°53'06
	5980 Jan 22 06:21	0° $\approx$			5980 Dec 07 20:06	0° $\Sigma$	
				morning set	5980 Dec 21 22:14	22° $\Sigma$ 26'43	
superior conj	5980 Jan 25 07:38	4° $\approx$ 48'56	-1°05'40		5980 Dec 26 09:30	0° $\Sigma$	
minimum elong	5980 Jan 24 23:48	4° $\approx$ 18'06	1°04'40	desc. node	5981 Jan 01 07:06	9° $\Sigma$ 47'13	
max. Earth dist.	5980 Jan 27 09:43	8° $\approx$ 05'36	1.45341 AU				
	5980 Feb 10 10:23	0° $\text{X}$		superior conj	5981 Jan 04 01:18	14° $\Sigma$ 16'35	-0°19'23
evening rise	5980 Feb 10 12:04	0° $\text{X}$ 06'33		minimum elong	5981 Jan 03 23:03	14° $\Sigma$ 07'30	0°19'02
greatest brilliancy	5980 Feb 22 05:41	18° $\text{X}$ 17'51	-0.7m	max. Earth dist.	5981 Jan 09 04:33	22° $\Sigma$ 29'47	1.44746 AU
	5980 Mar 01 09:15	0° $\Upsilon$			5981 Jan 13 23:07	0° $\approx$	
evening max el	5980 Mar 05 08:42	4° $\Upsilon$ 40'13	19°20'58	evening rise	5981 Jan 20 00:50	9° $\approx$ 23'41	
asc. node	5980 Mar 07 11:58	6° $\Upsilon$ 36'57			5981 Feb 02 16:23	0° $\text{X}$	
retrograde	5980 Mar 12 11:14	8° $\Upsilon$ 43'19		evening max el	5981 Feb 16 12:03	18° $\text{X}$ 15'18	20°18'40
evening set	5980 Mar 15 23:20	7° $\Upsilon$ 31'34		asc. node	5981 Feb 22 09:02	22° $\text{X}$ 30'38	
inferior conj	5980 Mar 21 10:43	1° $\Upsilon$ 39'40	3°22'39	retrograde	5981 Feb 24 09:29	22° $\text{X}$ 52'10	
minimum elong	5980 Mar 21 09:24	1° $\Upsilon$ 43'57	3°22'30	evening set	5981 Feb 28 06:10	21° $\text{X}$ 25'49	
	5980 Mar 22 17:23	30° $\text{X}$		inferior conj	5981 Mar 05 14:48	15° $\text{X}$ 20'30	3°03'03
min. Earth dist.	5980 Mar 22 18:46	29° $\text{X}$ 55'32	0.66522 AU	minimum elong	5981 Mar 05 12:43	15° $\text{X}$ 27'33	3°02'39
morning rise	5980 Mar 26 19:09	25° $\text{X}$ 23'59		min. Earth dist.	5981 Mar 06 08:47	14° $\text{X}$ 19'23	0.67500 AU
direct	5980 Apr 02 00:58	22° $\text{X}$ 37'54		morning rise	5981 Mar 10 19:03	9° $\text{X}$ 05'46	
desc. node	5980 Apr 12 09:20	28° $\text{X}$ 00'16		direct	5981 Mar 16 12:05	6° $\text{X}$ 32'42	
	5980 Apr 14 11:21	0° $\Upsilon$		morning max el	5981 Mar 27 23:02	13° $\text{X}$ 24'01	24°37'25
morning max el	5980 Apr 14 14:18	0° $\Upsilon$ 07'29	26°00'16	desc. node	5981 Mar 30 06:23	15° $\text{X}$ 51'06	
	5980 May 06 21:54	0° $\text{X}$			5981 Apr 10 09:35	0° $\Upsilon$	
morning set	5980 May 20 17:50	23° $\text{X}$ 39'34			5981 Apr 29 17:40	0° $\text{X}$	
	5980 May 24 02:37	0° $\Pi$		morning set	5981 May 02 22:14	5° $\text{X}$ 31'30	
max. Earth dist.	5980 May 24 14:42	0° $\Pi$ 58'08	1.35396 AU	max. Earth dist.	5981 May 06 13:02	12° $\text{X}$ 00'13	1.37380 AU
superior conj	5980 May 29 23:06	11° $\Pi$ 33'49	-0°44'46	superior conj	5981 May 13 07:26	24° $\text{X}$ 44'49	-1°14'48
minimum elong	5980 May 30 01:37	11° $\Pi$ 46'36	0°44'19	minimum elong	5981 May 13 11:40	25° $\text{X}$ 05'23	1°14'10
asc. node	5980 Jun 03 11:14	20° $\Pi$ 49'02			5981 May 15 23:47	0° $\Pi$	
evening rise	5980 Jun 06 19:19	27° $\Pi$ 42'44		asc. node	5981 May 21 08:16	10° $\Pi$ 40'35	
	5980 Jun 07 22:10	0° $\text{X}$		evening rise	5981 May 21 21:18	11° $\Pi$ 45'36	
evening max el	5980 Jun 25 00:27	27° $\text{X}$ 27'11	20°21'56		5981 May 31 17:49	0° $\text{X}$	
	5980 Jun 28 00:26	0° $\Omega$		evening max el	5981 Jun 07 16:21	9° $\text{X}$ 04'41	19°17'53
retrograde	5980 Jul 05 22:14	2° $\Omega$ 48'14		retrograde	5981 Jun 16 20:49	13° $\text{X}$ 34'45	
evening set	5980 Jul 07 21:19	2° $\Omega$ 38'36		evening set	5981 Jun 18 19:27	13° $\text{X}$ 23'32	
desc. node	5980 Jul 09 08:33	2° $\Omega$ 19'26		desc. node	5981 Jun 26 05:37	9° $\text{X}$ 57'59	
	5980 Jul 14 18:17	30° $\text{X}$		inferior conj	5981 Jun 27 07:59	9° $\text{X}$ 14'53	-0°19'45
inferior conj	5980 Jul 17 01:35	28° $\text{X}$ 41'03	-2°17'39	minimum elong	5981 Jun 27 07:07	9° $\text{X}$ 16'18	0°19'27
minimum elong	5980 Jul 16 19:12	28° $\text{X}$ 50'22	2°15'23	min. Earth dist.	5981 Jun 30 01:33	7° $\text{X}$ 27'12	0.56001 AU
min. Earth dist.	5980 Jul 18 11:39	27° $\text{X}$ 51'19	0.54946 AU	morning rise	5981 Jul 05 15:53	4° $\text{X}$ 31'26	
morning rise	5980 Jul 25 16:01	24° $\text{X}$ 31'03		direct	5981 Jul 10 13:51	3° $\text{X}$ 36'10	
direct	5980 Jul 29 17:00	23° $\text{X}$ 55'44		morning max el	5981 Jul 24 17:02	10° $\text{X}$ 46'41	25°19'37
	5980 Aug 11 15:36	0° $\Omega$			5981 Aug 08 07:58	0° $\Omega$	
morning max el	5980 Aug 12 03:48	0° $\Omega$ 28'09	23°37'40	asc. node	5981 Aug 17 07:36	16° $\Omega$ 33'40	
asc. node	5980 Aug 30 10:34	27° $\Omega$ 00'39		morning set	5981 Aug 20 12:07	23° $\Omega$ 10'53	
	5980 Aug 31 23:15	0° $\Pi$			5981 Aug 23 15:58	0° $\Pi$	
morning set	5980 Sep 05 00:30	8° $\Pi$ 20'10					

superior conj	5981 Aug 27 10:01	8° $\cap$ 14'22	1°27'48	minimum elong	5982 Aug 11 19:27	22° $\Omega$ 55'24	1°12'09
minimum elong	5981 Aug 27 07:57	8° $\cap$ 03'01	1°27'34	max. Earth dist.	5982 Aug 12 02:28	23° $\Omega$ 34'13	1.31932 AU
max. Earth dist.	5981 Aug 28 16:13	10° $\cap$ 59'46	1.32406 AU		5982 Aug 15 00:29	0° $\cap$	
evening rise	5981 Sep 03 12:35	23° $\cap$ 28'30		evening rise	5982 Aug 18 18:25	8° $\cap$ 03'56	
	5981 Sep 06 18:11	0° $\underline{\Omega}$			5982 Aug 30 04:26	0° $\underline{\Omega}$	
desc. node	5981 Sep 22 04:51	26° $\underline{\Omega}$ 33'54		desc. node	5982 Sep 09 01:53	15° $\underline{\Omega}$ 09'37	
	5981 Sep 24 14:28	0° $\cap$		evening max el	5982 Sep 18 02:46	25° $\underline{\Omega}$ 34'54	26°51'13
evening max el	5981 Oct 05 22:42	13° $\cap$ 23'47	27°24'03		5982 Sep 23 16:34	0° $\cap$	
retrograde	5981 Oct 19 17:27	20° $\cap$ 37'52		retrograde	5982 Oct 02 00:14	2° $\cap$ 44'21	
evening set	5981 Oct 26 21:16	18° $\cap$ 11'34		evening set	5982 Oct 08 22:35	0° $\cap$ 40'39	
min. Earth dist.	5981 Oct 30 12:44	15° $\cap$ 15'55	0.62405 AU		5982 Oct 10 00:50	30° $\cap$ $\underline{\Omega}$	
inferior conj	5981 Nov 02 10:09	12° $\cap$ 33'05	-3°24'48	min. Earth dist.	5982 Oct 12 16:49	28° $\underline{\Omega}$ 03'11	0.60388 AU
minimum elong	5981 Nov 02 16:05	12° $\cap$ 19'07	3°22'49	inferior conj	5982 Oct 15 21:38	25° $\underline{\Omega}$ 25'16	-4°24'09
morning rise	5981 Nov 09 12:43	7° $\cap$ 27'00		minimum elong	5982 Oct 16 04:10	25° $\underline{\Omega}$ 11'46	4°22'34
direct	5981 Nov 11 20:40	7° $\cap$ 02'37		morning rise	5982 Oct 23 11:51	20° $\underline{\Omega}$ 40'34	
asc. node	5981 Nov 13 06:54	7° $\cap$ 12'00		direct	5982 Oct 25 18:55	20° $\underline{\Omega}$ 20'25	
morning max el	5981 Nov 18 15:35	10° $\cap$ 30'29	17°49'57	asc. node	5982 Oct 31 03:56	22° $\underline{\Omega}$ 16'48	
	5981 Dec 01 14:33	0° $\nearrow$		morning max el	5982 Nov 02 04:35	23° $\underline{\Omega}$ 59'59	18°05'50
morning set	5981 Dec 04 14:12	5° $\nearrow$ 18'43			5982 Nov 07 01:11	0° $\cap$	
				morning set	5982 Nov 17 22:18	18° $\cap$ 56'06	
superior conj	5981 Dec 15 20:00	24° $\nearrow$ 57'28	0°23'43		5982 Nov 23 21:09	0° $\nearrow$	
minimum elong	5981 Dec 15 22:12	25° $\nearrow$ 06'46	0°23'26				
	5981 Dec 18 20:10	0° $\searrow$		superior conj	5982 Nov 27 16:15	6° $\nearrow$ 52'32	0°57'57
desc. node	5981 Dec 19 04:07	0° $\searrow$ 32'58		minimum elong	5982 Nov 27 20:01	7° $\nearrow$ 09'20	0°57'29
max. Earth dist.	5981 Dec 22 20:45	6° $\searrow$ 36'05	1.43489 AU	max. Earth dist.	5982 Dec 05 08:05	20° $\nearrow$ 08'07	1.41714 AU
evening rise	5981 Dec 30 13:01	18° $\searrow$ 46'34		desc. node	5982 Dec 06 01:08	21° $\nearrow$ 19'25	
	5982 Jan 06 21:23	0° $\approx$		evening rise	5982 Dec 10 15:14	28° $\nearrow$ 50'11	
	5982 Jan 28 16:17	0° $\searrow$			5982 Dec 11 08:38	0° $\searrow$	
evening max el	5982 Jan 30 09:54	1° $\searrow$ 51'14	21°28'35		5982 Dec 31 12:16	0° $\approx$	
retrograde	5982 Feb 08 07:18	7° $\searrow$ 07'26		evening max el	5983 Jan 13 02:50	15° $\approx$ 28'51	22°46'18
asc. node	5982 Feb 09 06:06	7° $\searrow$ 02'39		retrograde	5983 Jan 23 03:06	21° $\approx$ 25'30	
evening set	5982 Feb 12 14:02	5° $\searrow$ 25'49		asc. node	5983 Jan 27 03:10	20° $\approx$ 03'10	
	5982 Feb 17 07:24	30° $\cap$ $\approx$		evening set	5983 Jan 27 21:18	19° $\approx$ 28'21	
inferior conj	5982 Feb 17 21:56	29° $\approx$ 09'41	2°33'38	inferior conj	5983 Feb 02 06:10	13° $\approx$ 04'42	1°55'44
minimum elong	5982 Feb 17 19:34	29° $\approx$ 17'53	2°32'59	minimum elong	5983 Feb 02 03:58	13° $\approx$ 12'18	1°55'00
min. Earth dist.	5982 Feb 18 03:09	28° $\approx$ 51'36	0.68050 AU	min. Earth dist.	5983 Feb 01 23:40	13° $\approx$ 27'13	0.68196 AU
morning rise	5982 Feb 23 00:56	22° $\approx$ 57'26		morning rise	5983 Feb 07 10:33	6° $\approx$ 56'17	
direct	5982 Feb 28 03:37	20° $\approx$ 44'05		direct	5983 Feb 11 22:44	5° $\approx$ 05'32	
morning max el	5982 Mar 10 08:20	26° $\approx$ 46'55	23°08'07	morning max el	5983 Feb 20 21:34	10° $\approx$ 18'33	21°41'27
	5982 Mar 13 07:55	0° $\searrow$		desc. node	5983 Mar 04 00:25	24° $\approx$ 00'12	
desc. node	5982 Mar 17 03:24	4° $\searrow$ 36'06			5983 Mar 08 06:27	0° $\searrow$	
	5982 Apr 04 00:06	0° $\Upsilon$		morning set	5983 Mar 25 02:11	25° $\searrow$ 32'34	
morning set	5982 Apr 14 02:23	16° $\Upsilon$ 12'07			5983 Mar 27 20:43	0° $\Upsilon$	
max. Earth dist.	5982 Apr 18 08:49	23° $\Upsilon$ 27'33	1.39577 AU	max. Earth dist.	5983 Mar 31 08:32	5° $\Upsilon$ 43'34	1.41719 AU
	5982 Apr 22 02:06	0° $\searrow$					
superior conj	5982 Apr 26 01:03	7° $\searrow$ 11'04	-1°41'57	superior conj	5983 Apr 07 23:05	18° $\Upsilon$ 40'27	-2°02'07
minimum elong	5982 Apr 26 06:17	7° $\searrow$ 35'10	1°41'23	minimum elong	5983 Apr 08 03:17	18° $\Upsilon$ 58'49	2°01'53
evening rise	5982 May 05 14:48	25° $\searrow$ 20'04		evening rise	5983 Apr 14 07:31	0° $\searrow$	
asc. node	5982 May 08 05:20	0° $\cap$ 18'26		asc. node	5983 Apr 18 20:02	8° $\searrow$ 16'17	
	5982 May 08 01:26	0° $\cap$			5983 Apr 25 02:22	19° $\searrow$ 36'31	
evening max el	5982 May 21 18:39	21° $\cap$ 21'58	18°34'20	evening max el	5983 May 01 15:16	0° $\cap$	
retrograde	5982 May 29 13:53	25° $\cap$ 13'32		retrograde	5983 May 05 03:45	4° $\cap$ 09'36	18°10'59
evening set	5982 May 31 18:28	24° $\cap$ 56'16		evening set	5983 May 12 01:24	7° $\cap$ 38'34	
inferior conj	5982 Jun 08 10:57	20° $\cap$ 28'37	1°19'36	inferior conj	5983 May 14 13:00	7° $\cap$ 12'07	
minimum elong	5982 Jun 08 13:38	20° $\cap$ 23'26	1°18'40	minimum elong	5983 May 21 11:10	2° $\cap$ 24'02	2°29'03
min. Earth dist.	5982 Jun 11 19:29	17° $\cap$ 54'09	0.57767 AU		5983 May 21 14:29	2° $\cap$ 16'31	2°28'10
desc. node	5982 Jun 13 02:38	16° $\cap$ 59'01			5983 May 24 02:58	30° $\cap$ $\searrow$	
morning rise	5982 Jun 16 05:31	15° $\cap$ 09'30		min. Earth dist.	5983 May 24 19:45	29° $\searrow$ 23'35	0.59916 AU
direct	5982 Jun 22 00:41	13° $\cap$ 44'39		morning rise	5983 May 28 13:18	26° $\searrow$ 37'26	
morning max el	5982 Jul 06 09:54	21° $\cap$ 21'32	26°44'05	desc. node	5983 May 30 23:40	25° $\searrow$ 25'00	
	5982 Jul 13 22:41	0° $\searrow$		direct	5983 Jun 04 00:34	24° $\searrow$ 38'43	
	5982 Aug 01 01:35	0° $\Omega$			5983 Jun 15 14:49	0° $\cap$	
asc. node	5982 Aug 04 04:37	6° $\Omega$ 23'05		morning max el	5983 Jun 18 09:10	2° $\cap$ 32'22	27°37'36
morning set	5982 Aug 04 22:15	7° $\Omega$ 55'43			5983 Jul 08 09:14	0° $\searrow$	
				morning set	5983 Jul 20 05:06	22° $\searrow$ 28'17	
superior conj	5982 Aug 11 21:44	23° $\Omega$ 08'03	1°12'31	asc. node	5983 Jul 22 01:38	26° $\searrow$ 22'46	
					5983 Jul 23 18:05	0° $\Omega$	

max. Earth dist.	5983 Jul 26 13:22	6°Ω07'49	1.31883 AU	superior conj	5984 Jul 10 18:51	22°Ω37'18	0°29'06
				minimum elong	5984 Jul 10 17:32	22°Ω30'11	0°28'48
superior conj	5983 Jul 27 09:16	7°Ω57'33	0°52'47		5984 Jul 14 03:46	0°Ω	
minimum elong	5983 Jul 27 07:14	7°Ω46'19	0°52'23	evening rise	5984 Jul 17 15:36	7°Ω33'46	
evening rise	5983 Aug 03 04:04	22°Ω47'44			5984 Jul 29 07:10	0°Π	
	5983 Aug 06 15:08	0°Π		evening max el	5984 Aug 11 12:48	17°Π33'14	24°17'15
	5983 Aug 24 17:29	0°Ω		desc. node	5984 Aug 12 19:55	18°Π45'03	
desc. node	5983 Aug 26 22:54	2°Ω41'40		retrograde	5984 Aug 25 08:12	24°Π29'58	
evening max el	5983 Aug 30 23:05	6°Ω55'36	25°46'09	evening set	5984 Aug 30 05:22	23°Π37'04	
retrograde	5983 Sep 13 21:54	14°Ω01'12		min. Earth dist.	5984 Sep 04 23:42	20°Π43'14	0.56477 AU
evening set	5983 Sep 20 02:16	12°Ω30'57		inferior conj	5984 Sep 07 12:36	19°Π07'57	-5°21'59
min. Earth dist.	5983 Sep 24 11:21	9°Ω54'43	0.58317 AU	minimum elong	5984 Sep 07 11:30	19°Π09'41	5°21'58
inferior conj	5983 Sep 27 15:11	7°Ω39'14	-5°08'20	morning rise	5984 Sep 15 20:00	15°Π07'05	
minimum elong	5983 Sep 27 19:41	7°Ω31'10	5°07'47	direct	5984 Sep 18 12:29	14°Π47'55	
morning rise	5983 Oct 05 15:24	3°Ω17'45		morning max el	5984 Sep 28 06:22	19°Π21'48	19°40'25
direct	5983 Oct 08 01:15	2°Ω59'16		asc. node	5984 Oct 03 21:57	26°Π06'55	
morning max el	5983 Oct 16 10:38	7°Ω00'26	18°42'14		5984 Oct 06 10:42	0°Ω	
asc. node	5983 Oct 18 00:56	8°Ω40'08		morning set	5984 Oct 15 20:29	17°Ω34'06	
	5983 Oct 31 03:31	0°Π			5984 Oct 22 00:05	0°Π	
morning set	5983 Nov 01 17:36	3°Π04'40		superior conj	5984 Oct 23 17:53	3°Π28'00	1°36'26
superior conj	5983 Nov 10 09:19	19°Π47'56	1°21'58	minimum elong	5984 Oct 23 19:52	3°Π37'51	1°36'19
minimum elong	5983 Nov 10 12:39	20°Π03'35	1°21'39	max. Earth dist.	5984 Oct 29 19:17	15°Π06'16	1.37524 AU
	5983 Nov 15 22:39	0°♄		evening rise	5984 Nov 02 13:24	21°Π56'24	
max. Earth dist.	5983 Nov 17 14:22	2°♄56'02	1.39637 AU		5984 Nov 07 05:00	0°♄	
evening rise	5983 Nov 21 15:13	9°♄53'16		desc. node	5984 Nov 08 19:09	2°♄39'26	
desc. node	5983 Nov 22 22:09	12°♄03'02			5984 Nov 27 03:58	0°♄	
	5983 Dec 04 06:37	0°♄		evening max el	5984 Dec 08 05:26	12°♄54'58	25°21'41
evening max el	5983 Dec 26 16:39	29°♄10'15	24°06'14	retrograde	5984 Dec 20 07:43	19°♄53'11	
	5983 Dec 27 13:06	0°♄		evening set	5984 Dec 26 03:48	17°♄27'57	
retrograde	5984 Jan 06 19:36	5°♄42'37		min. Earth dist.	5984 Dec 30 14:04	12°♄34'42	0.67366 AU
evening set	5984 Jan 12 02:26	3°♄30'33		asc. node	5984 Dec 30 21:12	12°♄11'43	
asc. node	5984 Jan 14 00:10	1°♄37'01		inferior conj	5984 Dec 31 18:39	11°♄02'16	0°18'06
	5984 Jan 15 08:29	30°♄♄		minimum elong	5984 Dec 31 18:11	11°♄03'45	0°17'56
min. Earth dist.	5984 Jan 16 20:05	28°♄02'59	0.67962 AU	morning rise	5985 Jan 06 08:53	5°♄06'42	
inferior conj	5984 Jan 17 13:40	27°♄03'29	1°10'18	direct	5985 Jan 09 19:19	3°♄58'44	
minimum elong	5984 Jan 17 12:07	27°♄08'46	1°09'43	morning max el	5985 Jan 16 21:49	7°♄56'07	19°21'11
morning rise	5984 Jan 22 21:51	21°♄00'27		greatest brilliancy	5985 Jan 30 02:59	25°♄31'55	-0.7m
direct	5984 Jan 26 20:25	19°♄32'11			5985 Feb 02 01:58	0°♄	
morning max el	5984 Feb 03 17:45	24°♄01'58	20°24'26	desc. node	5985 Feb 04 18:27	4°♄06'15	
	5984 Feb 08 22:00	0°♄		morning set	5985 Feb 10 01:44	12°♄16'29	
desc. node	5984 Feb 18 21:26	13°♄53'00			5985 Feb 21 10:45	0°♄	
	5984 Feb 29 14:32	0°♄		max. Earth dist.	5985 Feb 23 04:51	2°♄45'52	1.44798 AU
morning set	5984 Mar 03 03:01	3°♄53'10		superior conj	5985 Feb 26 18:12	8°♄24'15	-1°59'41
max. Earth dist.	5984 Mar 12 15:13	18°♄52'47	1.43533 AU	minimum elong	5985 Feb 26 11:32	7°♄57'39	1°59'17
superior conj	5984 Mar 18 21:04	29°♄04'28	-2°09'52		5985 Mar 12 00:47	0°♄	
minimum elong	5984 Mar 18 20:55	29°♄03'49	2°09'53	evening rise	5985 Mar 13 00:20	1°♄37'49	
	5984 Mar 19 10:27	0°♄		asc. node	5985 Mar 28 20:26	26°♄45'32	
evening rise	5984 Mar 31 08:41	20°♄24'57			5985 Mar 31 12:52	0°♄	
	5984 Apr 05 20:42	0°♄		evening max el	5985 Apr 01 05:02	0°♄42'06	18°21'54
asc. node	5984 Apr 10 23:24	8°♄28'26		retrograde	5985 Apr 07 15:30	4°♄10'11	
evening max el	5984 Apr 17 16:14	17°♄19'03	18°07'04	evening set	5985 Apr 10 16:27	3°♄19'42	
retrograde	5984 Apr 24 03:23	20°♄40'39			5985 Apr 14 16:15	30°♄♄	
evening set	5984 Apr 26 21:46	20°♄02'50		inferior conj	5985 Apr 16 13:35	27°♄53'28	3°28'06
inferior conj	5984 May 03 05:26	14°♄55'06	3°10'01	minimum elong	5985 Apr 16 14:19	27°♄51'21	3°28'04
minimum elong	5984 May 03 07:43	14°♄49'13	3°09'39	min. Earth dist.	5985 Apr 18 21:51	25°♄12'00	0.64129 AU
min. Earth dist.	5984 May 06 04:15	11°♄53'25	0.62123 AU	morning rise	5985 Apr 22 11:17	21°♄41'55	
morning rise	5984 May 09 15:57	8°♄51'54		direct	5985 Apr 29 06:13	18°♄56'54	
direct	5984 May 16 11:11	6°♄24'12		desc. node	5985 May 03 17:43	19°♄58'25	
desc. node	5984 May 16 20:41	6°♄24'41		morning max el	5985 May 12 23:13	26°♄55'17	27°32'52
morning max el	5984 May 30 14:21	14°♄25'22	27°53'37		5985 May 15 20:26	0°♄	
	5984 Jun 12 04:20	0°♄			5985 Jun 05 19:56	0°♄	
	5984 Jun 29 21:47	0°♄		morning set	5985 Jun 17 00:33	20°♄30'42	
morning set	5984 Jul 03 06:42	6°♄42'26			5985 Jun 21 16:45	0°♄	
asc. node	5984 Jul 07 22:39	16°♄28'12		max. Earth dist.	5985 Jun 21 21:42	0°♄25'46	1.33113 AU
max. Earth dist.	5984 Jul 08 21:03	18°♄28'41	1.32270 AU	asc. node	5985 Jun 24 19:40	6°♄35'04	

superior conj	5985 Jun 25 00:36	7°☿01'25	0°02'08	morning set	5986 May 31 07:25	3°♂43'37	
minimum elong	5985 Jun 25 00:30	7°☿00'50	0°02'05	max. Earth dist.	5986 Jun 04 12:16	11°♂53'51	1.34435 AU
behind sun begin	5985 Jun 24 19:07	6°☿32'08					
behind sun end	5985 Jun 25 05:52	7°☿29'33		superior conj	5986 Jun 09 00:17	21°♂03'00	-0°27'17
evening rise	5985 Jul 02 03:07	22°☿16'08		minimum elong	5986 Jun 09 01:47	21°♂10'43	0°27'01
	5985 Jul 05 20:50	0°♂		asc. node	5986 Jun 11 16:43	26°♂39'19	
evening max el	5985 Jul 24 01:45	27°♂52'42	22°39'17		5986 Jun 13 06:52	0°☿	
	5985 Jul 26 10:45	0°♂		evening rise	5986 Jun 16 12:44	6°☿48'25	
desc. node	5985 Jul 30 16:55	2°♂47'56			5986 Jun 29 02:48	0°♂	
retrograde	5985 Aug 06 05:40	4°♂26'06		evening max el	5986 Jul 05 21:57	8°♂26'16	21°07'32
evening set	5985 Aug 09 14:24	4°♂01'18		retrograde	5986 Jul 17 18:35	14°♂17'34	
min. Earth dist.	5985 Aug 17 09:27	0°♂35'22	0.55196 AU	desc. node	5986 Jul 17 13:58	14°♂17'28	
	5985 Aug 18 10:17	30°♂♂		evening set	5986 Jul 20 00:54	14°♂05'35	
inferior conj	5985 Aug 18 15:37	29°♂52'24	-4°48'21	inferior conj	5986 Jul 29 08:43	10°♂07'45	-3°22'56
minimum elong	5985 Aug 18 08:08	0°♂03'04	4°47'01	minimum elong	5986 Jul 29 00:04	10°♂19'54	3°20'15
morning rise	5985 Aug 27 03:51	26°♂02'48		min. Earth dist.	5986 Jul 29 19:19	9°♂52'50	0.54758 AU
direct	5985 Aug 30 06:17	25°♂040'40		morning rise	5986 Aug 06 23:43	6°♂11'37	
	5985 Sep 09 11:56	0°♂		direct	5986 Aug 10 15:01	5°♂43'12	
morning max el	5985 Sep 10 13:46	0°♂57'18	21°00'13	morning max el	5986 Aug 23 09:55	11°♂47'57	22°37'40
asc. node	5985 Sep 20 18:59	14°♂23'17			5986 Sep 05 20:22	0°♂	
	5985 Sep 29 01:36	0°♂		asc. node	5986 Sep 07 16:01	3°♂16'24	
morning set	5985 Sep 30 04:22	2°♂17'37		morning set	5986 Sep 14 15:04	17°♂08'00	
					5986 Sep 20 15:40	0°♂	
superior conj	5985 Oct 07 13:35	17°♂40'42	1°42'32	superior conj	5986 Sep 21 16:55	2°♂14'41	1°41'32
minimum elong	5985 Oct 07 14:05	17°♂43'15	1°42'32	minimum elong	5986 Sep 21 16:07	2°♂10'25	1°41'30
max. Earth dist.	5985 Oct 12 04:36	27°♂00'48	1.35607 AU	max. Earth dist.	5986 Sep 24 21:51	8°♂59'06	1.34029 AU
	5985 Oct 13 17:19	0°♂		evening rise	5986 Sep 29 14:23	18°♂27'03	
evening rise	5985 Oct 16 06:34	4°♂51'43			5986 Oct 05 18:04	0°♂	
desc. node	5985 Oct 26 16:11	23°♂04'16		desc. node	5986 Oct 13 13:12	13°♂10'48	
	5985 Oct 31 01:12	0°♂			5986 Oct 25 06:06	0°♂	
evening max el	5985 Nov 20 18:26	26°♂38'58	26°25'08	evening max el	5986 Nov 03 07:15	10°♂12'26	27°09'21
	5985 Nov 24 14:35	0°♂		retrograde	5986 Nov 16 15:39	17°♂30'35	
retrograde	5985 Dec 03 14:34	3°♂51'44		evening set	5986 Nov 23 11:47	14°♂51'28	
evening set	5985 Dec 09 23:39	1°♂16'43		min. Earth dist.	5986 Nov 27 09:13	11°♂08'22	0.65117 AU
	5985 Dec 11 09:32	30°♂♂		inferior conj	5986 Nov 29 13:02	8°♂44'13	-1°42'40
min. Earth dist.	5985 Dec 14 03:14	26°♂58'35	0.66419 AU	minimum elong	5986 Nov 29 16:02	8°♂35'50	1°41'24
inferior conj	5985 Dec 15 19:11	24°♂57'37	-0°39'59	asc. node	5986 Dec 04 15:17	3°♂54'27	
minimum elong	5985 Dec 15 20:16	24°♂54'18	0°39'29	morning rise	5986 Dec 05 21:26	3°♂11'39	
asc. node	5985 Dec 17 18:14	22°♂39'19		direct	5986 Dec 08 13:16	2°♂33'59	
morning rise	5985 Dec 21 17:34	19°♂12'03		morning max el	5986 Dec 15 00:16	6°♂00'01	18°03'01
direct	5985 Dec 24 17:40	18°♂21'07			5986 Dec 31 06:11	0°♂	
morning max el	5985 Dec 31 08:46	21°♂57'31	18°33'45	morning set	5987 Jan 01 23:34	2°♂51'03	
	5986 Jan 06 19:31	0°♂		desc. node	5987 Jan 09 12:30	15°♂12'18	
morning set	5986 Jan 20 21:50	21°♂49'21					
desc. node	5986 Jan 22 15:28	24°♂34'19		superior conj	5987 Jan 16 06:39	26°♂02'15	-0°46'12
	5986 Jan 26 01:53	0°♂		minimum elong	5987 Jan 16 01:02	25°♂39'57	0°45'26
superior conj	5986 Feb 05 23:06	17°♂♂06'02	-1°29'45		5987 Jan 18 18:46	0°♂	
minimum elong	5986 Feb 05 13:38	16°♂♂28'56	1°28'45	max. Earth dist.	5987 Jan 19 19:08	1°♂35'56	1.45181 AU
max. Earth dist.	5986 Feb 05 23:17	17°♂♂06'46	1.45366 AU	evening rise	5987 Feb 01 12:48	21°♂25'34	
	5986 Feb 14 04:14	0°♂			5987 Feb 07 02:21	0°♂	
evening rise	5986 Feb 21 16:43	11°♂54'14		greatest brilliancy	5987 Feb 15 01:41	12°♂05'29	-0.7m
greatest brilliancy	5986 Mar 02 11:33	25°♂51'03	-0.8m	evening max el	5987 Feb 26 21:51	27°♂46'55	19°43'45
	5986 Mar 05 03:27	0°♂			5987 Mar 01 08:43	0°♂	
evening max el	5986 Mar 15 15:34	14°♂12'50	18°54'34	asc. node	5987 Mar 02 14:31	0°♂51'43	
asc. node	5986 Mar 15 17:28	14°♂17'37		retrograde	5987 Mar 06 07:37	2°♂03'31	
retrograde	5986 Mar 22 09:55	17°♂59'53		evening set	5987 Mar 09 23:15	0°♂45'29	
evening set	5986 Mar 25 17:48	16°♂55'54			5987 Mar 10 22:01	30°♂♂	
inferior conj	5986 Mar 31 07:53	11°♂12'41	3°28'39	inferior conj	5987 Mar 15 09:10	24°♂47'19	3°15'39
minimum elong	5986 Mar 31 07:12	11°♂14'48	3°28'37	minimum elong	5987 Mar 15 07:28	24°♂52'56	3°15'24
min. Earth dist.	5986 Apr 02 00:29	9°♂05'37	0.65775 AU	min. Earth dist.	5987 Mar 16 10:57	23°♂21'34	0.66991 AU
morning rise	5986 Apr 05 20:11	4°♂57'44		morning rise	5987 Mar 20 15:26	18°♂31'50	
direct	5986 Apr 12 08:05	2°♂08'48		direct	5987 Mar 26 15:59	15°♂50'36	
desc. node	5986 Apr 20 14:45	5°♂36'53		desc. node	5987 Apr 07 11:48	22°♂47'32	
morning max el	5986 Apr 25 09:19	9°♂52'19	26°40'55	morning max el	5987 Apr 07 18:55	23°♂05'25	25°26'31
	5986 May 11 05:44	0°♂			5987 Apr 13 21:37	0°♂	
	5986 May 29 07:43	0°♂			5987 May 04 13:51	0°♂	

morning set	5987 May 13 23:04	16°♄09'54		morning max el	5988 Mar 20 03:42	6°♄25'23	23°59'37
max. Earth dist.	5987 May 17 15:59	23°♄00'31	1.36203 AU	desc. node	5988 Mar 24 08:49	11°♄03'44	
	5987 May 21 07:25	0°♄			5988 Apr 07 10:41	0°♄	
superior conj	5987 May 23 15:12	4°♄35'09	-0°57'40	morning set	5988 Apr 24 17:52	27°♄33'36	
minimum elong	5987 May 23 18:29	4°♄51'31	0°57'06		5988 Apr 26 03:41	0°♄	
asc. node	5987 May 29 13:46	16°♄37'03		max. Earth dist.	5988 Apr 28 12:05	4°♄08'27	1.38301 AU
evening rise	5987 May 31 18:16	21°♄04'34		superior conj	5988 May 05 17:45	17°♄28'06	-1°26'54
	5987 Jun 05 06:14	0°♄		minimum elong	5988 May 05 22:34	17°♄50'58	1°26'14
evening max el	5987 Jun 18 06:31	19°♄38'20	19°52'07		5988 May 12 04:47	0°♄	
retrograde	5987 Jun 28 10:28	24°♄37'25		evening rise	5988 May 14 17:01	4°♄56'15	
evening set	5987 Jun 30 07:53	24°♄27'47		asc. node	5988 May 15 10:48	6°♄23'25	
desc. node	5987 Jul 04 11:00	23°♄07'28			5988 May 29 15:49	0°♄	
inferior conj	5987 Jul 09 06:29	20°♄26'36	-1°26'53	evening max el	5988 May 31 03:12	1°♄33'31	18°56'51
minimum elong	5987 Jul 09 02:28	20°♄32'46	1°25'23	retrograde	5988 Jun 08 16:25	5°♄45'27	
min. Earth dist.	5987 Jul 11 07:32	19°♄11'44	0.55286 AU	evening set	5988 Jun 10 17:01	5°♄32'16	
morning rise	5987 Jul 17 19:05	16°♄03'28		inferior conj	5988 Jun 18 21:08	1°♄16'17	0°25'45
direct	5987 Jul 22 04:17	15°♄21'17		minimum elong	5988 Jun 18 22:09	1°♄14'29	0°25'21
morning max el	5987 Aug 04 23:58	22°♄11'16	24°22'17	desc. node	5988 Jun 20 08:03	0°♄14'23	
	5987 Aug 11 21:10	0°♄			5988 Jun 20 16:12	30°♄	
asc. node	5987 Aug 25 13:04	22°♄37'04		min. Earth dist.	5988 Jun 21 23:14	29°♄06'21	0.56682 AU
	5987 Aug 29 04:03	0°♄		morning rise	5988 Jun 26 23:57	26°♄16'43	
morning set	5987 Aug 30 02:49	1°♄59'59		direct	5988 Jul 02 07:11	25°♄09'41	
					5988 Jul 13 16:42	0°♄	
superior conj	5987 Sep 06 01:10	17°♄01'42	1°34'23	morning max el	5988 Jul 16 14:16	2°♄33'45	25°58'37
minimum elong	5987 Sep 05 23:26	16°♄52'18	1°34'14		5988 Aug 05 02:08	0°♄	
max. Earth dist.	5987 Sep 07 23:23	21°♄11'56	1.32868 AU	asc. node	5988 Aug 11 10:06	12°♄17'40	
	5987 Sep 12 03:22	0°♄		morning set	5988 Aug 13 13:57	16°♄48'33	
evening rise	5987 Sep 13 09:08	2°♄32'29			5988 Aug 19 15:21	0°♄	
	5987 Sep 28 14:04	0°♄		superior conj	5988 Aug 20 12:09	1°♄54'45	1°21'54
desc. node	5987 Sep 30 10:13	2°♄51'08		minimum elong	5988 Aug 20 09:56	1°♄42'32	1°21'36
evening max el	5987 Oct 16 18:25	23°♄23'32	27°27'33	max. Earth dist.	5988 Aug 21 07:09	3°♄39'24	1.32144 AU
	5987 Oct 26 13:56	0°♄		evening rise	5988 Aug 27 11:39	16°♄59'09	
retrograde	5987 Oct 30 10:31	0°♄40'55			5988 Sep 03 00:57	0°♄	
	5987 Nov 03 02:57	30°♄		desc. node	5988 Sep 16 07:15	21°♄54'39	
evening set	5987 Nov 06 13:27	28°♄06'29			5988 Sep 22 11:28	0°♄	
min. Earth dist.	5987 Nov 10 06:03	24°♄55'33	0.63474 AU	evening max el	5988 Sep 28 01:52	6°♄00'12	27°14'19
inferior conj	5987 Nov 12 21:36	22°♄16'04	-2°47'44	retrograde	5988 Oct 11 22:25	13°♄13'11	
minimum elong	5987 Nov 13 02:35	22°♄03'32	2°45'53	evening set	5988 Oct 19 01:00	10°♄54'59	
morning rise	5987 Nov 19 17:22	16°♄59'39		min. Earth dist.	5988 Oct 22 16:32	8°♄08'41	0.61555 AU
asc. node	5987 Nov 21 12:21	16°♄33'27		inferior conj	5988 Oct 25 17:47	5°♄25'44	-3°51'09
direct	5987 Nov 22 03:18	16°♄31'33		minimum elong	5988 Oct 26 00:12	5°♄11'26	3°49'14
morning max el	5987 Nov 28 17:22	19°♄56'22	17°49'34	morning rise	5988 Nov 02 01:26	0°♄28'33	
	5987 Dec 06 05:10	0°♄		direct	5988 Nov 04 08:25	0°♄06'27	
morning set	5987 Dec 15 03:27	15°♄08'27		asc. node	5988 Nov 07 09:24	0°♄46'51	
	5987 Dec 23 19:46	0°♄		morning max el	5988 Nov 11 08:50	3°♄38'35	17°54'21
superior conj	5987 Dec 27 10:21	5°♄59'49	-0°00'15	morning set	5988 Nov 27 03:01	28°♄22'15	
minimum elong	5987 Dec 27 10:20	5°♄59'45	0°00'13		5988 Nov 28 00:30	0°♄	
behind sun begin	5987 Dec 27 00:47	5°♄20'27		superior conj	5988 Dec 07 16:22	17°♄14'12	0°39'27
behind sun end	5987 Dec 27 19:52	6°♄38'59		minimum elong	5988 Dec 07 19:33	17°♄27'59	0°39'02
desc. node	5987 Dec 27 09:29	5°♄56'17		desc. node	5988 Dec 13 06:30	26°♄43'18	
max. Earth dist.	5988 Jan 02 12:58	15°♄53'59	1.44282 AU	max. Earth dist.	5988 Dec 15 02:44	29°♄46'00	1.42780 AU
evening rise	5988 Jan 11 23:15	0°♄39'57			5988 Dec 15 06:09	0°♄	
	5988 Jan 11 12:53	0°♄		evening rise	5988 Dec 21 15:59	10°♄17'24	
	5988 Jan 31 18:55	0°♄			5989 Jan 03 16:00	0°♄	
evening max el	5988 Feb 09 22:42	11°♄21'51	20°47'08	evening max el	5989 Jan 22 18:20	24°♄59'02	22°00'59
asc. node	5988 Feb 17 11:34	16°♄12'28			5989 Jan 29 11:31	0°♄	
retrograde	5988 Feb 18 06:01	16°♄15'36		retrograde	5989 Feb 01 03:12	0°♄32'55	
evening set	5988 Feb 22 06:44	14°♄42'52		asc. node	5989 Feb 03 08:37	0°♄06'53	
inferior conj	5988 Feb 27 14:48	8°♄32'22	2°51'42		5989 Feb 03 15:07	30°♄	
minimum elong	5988 Feb 27 12:33	8°♄40'07	2°51'11	evening set	5989 Feb 05 14:31	28°♄44'57	
min. Earth dist.	5988 Feb 28 03:11	7°♄49'46	0.67780 AU	inferior conj	5989 Feb 10 22:39	22°♄25'12	2°18'33
morning rise	5988 Mar 03 18:10	2°♄18'17		minimum elong	5989 Feb 10 20:18	22°♄33'22	2°17'51
	5988 Mar 07 23:39	30°♄		min. Earth dist.	5989 Feb 10 22:51	22°♄24'30	0.68161 AU
direct	5988 Mar 09 05:03	29°♄53'08		morning rise	5989 Feb 16 01:55	16°♄14'09	
	5988 Mar 10 11:21	0°♄					



direct	5989 Feb 20 22:25	14° $\approx$ 10'02		5990 Feb 09 01:28	0° $\approx$	
morning max el	5989 Mar 02 14:06	19° $\approx$ 51'39	22°30'19	morning max el	5990 Feb 13 05:54	3° $\approx$ 27'45 21°07'09
desc. node	5989 Mar 11 05:50	0° $\bowtie$ 07'23		desc. node	5990 Feb 26 02:50	19° $\approx$ 44'58
	5989 Mar 11 03:35	0° $\bowtie$			5990 Mar 05 03:38	0° $\bowtie$
	5989 Mar 31 15:35	0° $\Upsilon$		morning set	5990 Mar 15 22:34	16° $\bowtie$ 30'22
morning set	5989 Apr 05 10:06	7° $\Upsilon$ 40'19		max. Earth dist.	5990 Mar 23 11:02	28° $\bowtie$ 32'56 1.42555 AU
max. Earth dist.	5989 Apr 10 08:16	15° $\Upsilon$ 52'25	1.40516 AU		5990 Mar 24 08:17	0° $\Upsilon$
superior conj	5989 Apr 18 03:37	29° $\Upsilon$ 31'46	-1°51'39	superior conj	5990 Mar 30 15:57	10° $\Upsilon$ 35'01 -2°07'16
minimum elong	5989 Apr 18 08:45	29° $\Upsilon$ 54'52	1°51'13	minimum elong	5990 Mar 30 18:45	10° $\Upsilon$ 46'57 2°07'12
	5989 Apr 18 09:53	0° $\bowtie$			5990 Apr 10 16:43	0° $\bowtie$
evening rise	5989 Apr 28 05:44	18° $\bowtie$ 15'22		evening rise	5990 Apr 11 04:28	0° $\bowtie$ 52'50
asc. node	5989 May 02 07:50	25° $\bowtie$ 53'33		asc. node	5990 Apr 19 04:52	15° $\bowtie$ 01'44
	5989 May 04 14:24	0° $\Pi$		evening max el	5990 Apr 27 19:53	27° $\bowtie$ 04'01 18°06'57
evening max el	5989 May 14 08:53	14° $\Pi$ 05'17	18°21'59		5990 May 02 01:23	0° $\Pi$
retrograde	5989 May 21 17:19	17° $\Pi$ 44'50		retrograde	5990 May 04 11:33	0° $\Pi$ 27'46
evening set	5989 May 24 00:59	17° $\Pi$ 23'56			5990 May 06 22:34	30° $\bowtie$
inferior conj	5989 May 31 09:19	12° $\Pi$ 47'51	1°52'49	evening set	5990 May 07 02:14	29° $\bowtie$ 56'31
minimum elong	5989 May 31 12:34	12° $\Pi$ 41'08	1°51'48	inferior conj	5990 May 13 17:43	24° $\bowtie$ 59'45 2°49'35
min. Earth dist.	5989 Jun 03 19:38	9° $\Pi$ 59'12	0.58662 AU	minimum elong	5990 May 13 20:43	24° $\bowtie$ 52'33 2°48'56
desc. node	5989 Jun 07 05:05	7° $\Pi$ 38'10		min. Earth dist.	5990 May 16 22:56	21° $\bowtie$ 56'07 0.60872 AU
morning rise	5989 Jun 07 21:01	7° $\Pi$ 15'54		morning rise	5990 May 20 12:59	19° $\bowtie$ 05'10
direct	5989 Jun 14 00:12	5° $\Pi$ 36'15		desc. node	5990 May 25 02:06	17° $\bowtie$ 06'21
morning max el	5989 Jun 28 09:27	13° $\Pi$ 21'24	27°11'06	direct	5990 May 27 04:49	16° $\bowtie$ 53'15
	5989 Jul 11 14:26	0° $\textcircled{C}$		morning max el	5990 Jun 10 11:18	24° $\bowtie$ 50'14 27°49'07
	5989 Jul 28 05:56	0° $\Omega$			5990 Jun 15 04:26	0° $\Pi$
morning set	5989 Jul 28 22:51	1° $\Omega$ 28'29			5990 Jul 04 23:22	0° $\textcircled{C}$
asc. node	5989 Jul 29 07:06	2° $\Omega$ 11'59		morning set	5990 Jul 13 03:44	15° $\textcircled{C}$ 54'28
				asc. node	5990 Jul 16 04:07	22° $\textcircled{C}$ 15'04
superior conj	5989 Aug 04 23:58	16° $\Omega$ 47'19	1°04'40	max. Earth dist.	5990 Jul 19 04:11	28° $\textcircled{C}$ 45'22 1.31998 AU
minimum elong	5989 Aug 04 21:43	16° $\Omega$ 34'55	1°04'16		5990 Jul 19 17:48	0° $\Omega$
max. Earth dist.	5989 Aug 04 18:00	16° $\Omega$ 14'17	1.31857 AU			
	5989 Aug 11 00:45	0° $\Pi$		superior conj	5990 Jul 20 10:53	1° $\Omega$ 33'54 0°43'12
evening rise	5989 Aug 11 19:20	1° $\Pi$ 39'03		minimum elong	5990 Jul 20 09:06	1° $\Omega$ 24'05 0°42'49
	5989 Aug 27 01:48	0° $\underline{\Omega}$		evening rise	5990 Jul 27 06:04	16° $\Omega$ 25'25
desc. node	5989 Sep 03 04:17	10° $\underline{\Omega}$ 05'59			5990 Aug 02 22:38	0° $\Pi$
evening max el	5989 Sep 10 02:59	17° $\underline{\Omega}$ 50'55	26°27'21	desc. node	5990 Aug 21 01:18	27° $\Pi$ 04'20
retrograde	5989 Sep 24 01:32	24° $\underline{\Omega}$ 58'30		evening max el	5990 Aug 22 20:17	28° $\Pi$ 52'19 25°10'31
evening set	5989 Sep 30 17:40	23° $\underline{\Omega}$ 08'21			5990 Aug 24 01:41	0° $\underline{\Omega}$
min. Earth dist.	5989 Oct 04 16:31	20° $\underline{\Omega}$ 33'27	0.59490 AU	retrograde	5990 Sep 05 18:08	5° $\underline{\Omega}$ 54'23
inferior conj	5989 Oct 07 22:03	18° $\underline{\Omega}$ 03'05	-4°45'38	evening set	5990 Sep 11 10:52	4° $\underline{\Omega}$ 40'16
minimum elong	5989 Oct 08 04:08	17° $\underline{\Omega}$ 51'13	4°44'26	min. Earth dist.	5990 Sep 16 07:48	1° $\underline{\Omega}$ 58'52 0.57492 AU
morning rise	5989 Oct 15 16:45	13° $\underline{\Omega}$ 27'51		inferior conj	5990 Sep 19 07:11	29° $\Pi$ 58'48 -5°18'56
direct	5989 Oct 18 00:27	13° $\underline{\Omega}$ 08'43		minimum elong	5990 Sep 19 09:42	29° $\Pi$ 54'33 5°18'46
asc. node	5989 Oct 25 06:25	16° $\underline{\Omega}$ 26'39			5990 Sep 19 06:28	30° $\bowtie$
morning max el	5989 Oct 25 19:14	16° $\underline{\Omega}$ 56'39	18°18'43	morning rise	5990 Sep 27 10:47	25° $\Pi$ 46'36
	5989 Nov 04 01:26	0° $\Pi$		direct	5990 Sep 29 23:15	25° $\Pi$ 27'55
morning set	5989 Nov 10 16:24	12° $\Pi$ 14'32		morning max el	5990 Oct 08 21:10	29° $\Pi$ 41'22 19°04'16
					5990 Oct 09 04:53	0° $\underline{\Omega}$
superior conj	5989 Nov 19 22:05	29° $\Pi$ 36'28	1°09'22	asc. node	5990 Oct 12 03:25	3° $\underline{\Omega}$ 18'52
minimum elong	5989 Nov 20 01:50	29° $\Pi$ 53'37	1°08'56	morning set	5990 Oct 25 15:18	26° $\underline{\Omega}$ 33'17
	5989 Nov 20 03:14	0° $\bowtie$			5990 Oct 27 09:00	0° $\Pi$
max. Earth dist.	5989 Nov 27 11:49	13° $\bowtie$ 00'05	1.40852 AU			
desc. node	5989 Nov 30 03:31	17° $\bowtie$ 29'03		superior conj	5990 Nov 02 22:20	12° $\Pi$ 52'31 1°29'13
evening rise	5989 Dec 02 03:03	20° $\bowtie$ 45'40		minimum elong	5990 Nov 03 01:09	13° $\Pi$ 06'04 1°28'59
	5989 Dec 07 21:31	0° $\textcircled{C}$		max. Earth dist.	5990 Nov 09 17:22	25° $\Pi$ 32'00 1.38732 AU
	5989 Dec 28 21:13	0° $\approx$			5990 Nov 12 05:45	0° $\bowtie$
evening max el	5990 Jan 05 09:52	8° $\approx$ 39'01	23°20'26	evening rise	5990 Nov 13 12:42	2° $\bowtie$ 14'38
retrograde	5990 Jan 15 21:36	14° $\approx$ 51'09		desc. node	5990 Nov 17 00:32	8° $\bowtie$ 10'02
evening set	5990 Jan 20 21:03	12° $\approx$ 47'43			5990 Dec 01 02:49	0° $\textcircled{C}$
asc. node	5990 Jan 21 05:39	12° $\approx$ 28'58		evening max el	5990 Dec 18 23:04	22° $\textcircled{C}$ 22'02 24°39'17
inferior conj	5990 Jan 26 06:47	6° $\approx$ 22'21	1°37'21	retrograde	5990 Dec 30 12:12	29° $\textcircled{C}$ 06'09
minimum elong	5990 Jan 26 04:48	6° $\approx$ 29'10	1°36'39	evening set	5991 Jan 05 00:46	26° $\textcircled{C}$ 48'01
min. Earth dist.	5990 Jan 25 19:36	7° $\approx$ 00'49	0.68148 AU	asc. node	5991 Jan 08 02:41	23° $\textcircled{C}$ 32'22
morning rise	5990 Jan 31 12:29	0° $\approx$ 15'59		min. Earth dist.	5991 Jan 09 15:08	21° $\textcircled{C}$ 35'13 0.67757 AU
	5990 Jan 31 20:50	30° $\bowtie$		inferior conj	5991 Jan 10 13:25	20° $\textcircled{C}$ 21'10 0°48'56
direct	5990 Feb 04 18:52	28° $\textcircled{C}$ 34'43		minimum elong	5991 Jan 10 12:16	20° $\textcircled{C}$ 25'00 0°48'30

morning rise	5991 Jan 15 23:56	14° $\text{Z}$ 21'17		transit begin	5991 Dec 25 14:16	4° $\text{Z}$ 26'43	
direct	5991 Jan 19 17:11	13° $\text{Z}$ 01'58		transit end	5991 Dec 25 19:33	4° $\text{Z}$ 10'03	
morning max el	5991 Jan 27 05:29	17° $\text{Z}$ 16'05	19°55'44	asc. node	5991 Dec 25 23:43	3° $\text{Z}$ 56'56	
	5991 Feb 06 07:39	0° $\approx$			5991 Dec 29 11:11	30° $\text{R}$ $\text{Z}$	
desc. node	5991 Feb 12 23:50	9° $\approx$ 47'12		morning rise	5991 Dec 31 10:14	28° $\text{Z}$ 27'30	
morning set	5991 Feb 22 19:21	24° $\approx$ 43'15		direct	5992 Jan 03 15:58	27° $\text{Z}$ 27'23	
	5991 Feb 26 05:11	0° $\text{H}$			5992 Jan 09 04:36	0° $\text{Z}$	
max. Earth dist.	5991 Mar 05 21:29	12° $\text{H}$ 05'01	1.44151 AU	morning max el	5992 Jan 10 12:50	1° $\text{Z}$ 14'33	18°59'06
				desc. node	5992 Jan 30 20:51	0° $\approx$ 07'24	
superior conj	5991 Mar 11 03:03	20° $\text{H}$ 30'26	-2°08'00		5992 Jan 30 18:57	0° $\approx$	
minimum elong	5991 Mar 11 00:08	20° $\text{H}$ 18'32	2°07'55	morning set	5992 Feb 02 01:03	3° $\approx$ 30'43	
	5991 Mar 16 21:18	0° $\text{Y}$		max. Earth dist.	5992 Feb 16 13:29	26° $\approx$ 12'14	1.45120 AU
evening rise	5991 Mar 24 08:42	12° $\text{Y}$ 39'07					
	5991 Apr 03 16:21	0° $\text{B}$		superior conj	5992 Feb 18 15:33	29° $\approx$ 29'13	-1°49'15
asc. node	5991 Apr 06 01:54	3° $\text{B}$ 40'14		minimum elong	5992 Feb 18 06:51	28° $\approx$ 54'58	1°48'33
evening max el	5991 Apr 11 08:49	10° $\text{B}$ 20'10	18°11'03		5992 Feb 18 23:21	0° $\text{H}$	
retrograde	5991 Apr 17 18:34	13° $\text{B}$ 43'08		evening rise	5992 Mar 04 14:38	23° $\text{H}$ 28'17	
evening set	5991 Apr 20 15:44	13° $\text{B}$ 00'01			5992 Mar 08 14:39	0° $\text{Y}$	
inferior conj	5991 Apr 26 18:25	7° $\text{B}$ 43'54	3°20'09	asc. node	5992 Mar 22 22:57	21° $\text{Y}$ 40'09	
minimum elong	5991 Apr 26 20:03	7° $\text{B}$ 39'28	3°19'57	evening max el	5992 Mar 24 20:56	23° $\text{Y}$ 47'24	18°33'37
min. Earth dist.	5991 Apr 29 11:13	4° $\text{B}$ 48'50	0.63011 AU	retrograde	5992 Mar 31 09:56	27° $\text{Y}$ 22'31	
morning rise	5991 May 02 23:04	1° $\text{B}$ 36'14		evening set	5992 Apr 03 13:39	26° $\text{Y}$ 26'33	
	5991 May 05 12:48	30° $\text{R}$ $\text{Y}$		inferior conj	5992 Apr 09 07:24	20° $\text{Y}$ 52'51	3°30'13
direct	5991 May 09 18:56	28° $\text{Y}$ 59'55		minimum elong	5992 Apr 09 07:29	20° $\text{Y}$ 52'33	3°30'12
desc. node	5991 May 11 23:08	29° $\text{Y}$ 14'21		min. Earth dist.	5992 Apr 11 09:00	18° $\text{Y}$ 24'32	0.64873 AU
	5991 May 14 07:39	0° $\text{B}$		morning rise	5992 Apr 15 00:38	14° $\text{Y}$ 39'03	
morning max el	5991 May 23 18:35	7° $\text{B}$ 00'58	27°49'09	direct	5992 Apr 21 17:08	11° $\text{Y}$ 50'45	
	5991 Jun 10 07:34	0° $\text{II}$		desc. node	5992 Apr 27 20:10	13° $\text{Y}$ 45'39	
morning set	5991 Jun 27 02:23	29° $\text{II}$ 58'56		morning max el	5992 May 05 04:33	19° $\text{Y}$ 45'18	27°14'06
	5991 Jun 27 02:36	0° $\text{E}$			5992 May 13 22:26	0° $\text{B}$	
max. Earth dist.	5991 Jul 02 09:35	10° $\text{E}$ 58'42	1.32577 AU		5992 Jun 02 08:28	0° $\text{II}$	
asc. node	5991 Jul 03 01:07	12° $\text{E}$ 21'43		morning set	5992 Jun 09 16:04	13° $\text{II}$ 34'01	
				max. Earth dist.	5992 Jun 14 06:17	22° $\text{II}$ 43'53	1.33620 AU
superior conj	5991 Jul 04 19:05	16° $\text{E}$ 07'42	0°18'02				
minimum elong	5991 Jul 04 18:14	16° $\text{E}$ 03'06	0°17'48	superior conj	5992 Jun 17 22:34	0° $\text{E}$ 23'13	-0°10'08
	5991 Jul 11 04:34	0° $\text{O}$		minimum elong	5992 Jun 17 23:06	0° $\text{E}$ 26'02	0°10'04
evening rise	5991 Jul 11 17:50	1° $\text{O}$ 10'49		behind sun begin	5992 Jun 17 18:45	0° $\text{E}$ 03'04	
	5991 Jul 27 14:33	0° $\text{M}$		behind sun end	5992 Jun 18 03:27	0° $\text{E}$ 49'02	
evening max el	5991 Aug 04 08:26	9° $\text{M}$ 17'16	23°35'33		5992 Jun 17 18:10	0° $\text{E}$	
desc. node	5991 Aug 07 22:21	12° $\text{M}$ 20'40		asc. node	5992 Jun 18 22:10	2° $\text{E}$ 28'08	
retrograde	5991 Aug 17 22:56	16° $\text{M}$ 06'50		evening rise	5992 Jun 25 04:49	15° $\text{E}$ 49'40	
evening set	5991 Aug 22 04:38	15° $\text{M}$ 27'24			5992 Jul 02 07:10	0° $\text{O}$	
min. Earth dist.	5991 Aug 28 18:15	12° $\text{M}$ 21'33	0.55848 AU	evening max el	5992 Jul 15 23:27	19° $\text{O}$ 38'34	21°58'37
inferior conj	5991 Aug 30 20:06	11° $\text{M}$ 07'13	-5°14'12	desc. node	5992 Jul 24 19:24	25° $\text{O}$ 21'31	
minimum elong	5991 Aug 30 16:03	11° $\text{M}$ 13'18	5°13'51	retrograde	5992 Jul 28 16:18	25° $\text{O}$ 56'40	
morning rise	5991 Sep 08 05:52	7° $\text{M}$ 13'17		evening set	5992 Jul 31 11:27	25° $\text{O}$ 39'11	
direct	5991 Sep 11 02:18	6° $\text{M}$ 53'10		min. Earth dist.	5992 Aug 09 04:00	21° $\text{O}$ 55'01	0.54894 AU
morning max el	5991 Sep 21 11:47	11° $\text{M}$ 43'37	20°11'56	inferior conj	5992 Aug 09 17:24	21° $\text{O}$ 36'14	-4°17'47
asc. node	5991 Sep 29 00:26	21° $\text{M}$ 08'02		minimum elong	5992 Aug 09 08:33	21° $\text{O}$ 48'39	4°15'39
	5991 Oct 04 04:31	0° $\text{O}$		morning rise	5992 Aug 18 07:10	17° $\text{O}$ 46'12	
morning set	5991 Oct 09 20:35	11° $\text{O}$ 09'22		direct	5992 Aug 21 14:17	17° $\text{O}$ 22'09	
				morning max el	5992 Sep 02 14:09	22° $\text{O}$ 59'31	21°40'01
superior conj	5991 Oct 17 12:08	26° $\text{O}$ 47'58	1°39'58		5992 Sep 08 16:43	0° $\text{M}$	
minimum elong	5991 Oct 17 13:29	26° $\text{O}$ 54'45	1°39'55	asc. node	5992 Sep 14 21:28	9° $\text{M}$ 41'07	
	5991 Oct 19 02:32	0° $\text{M}$		morning set	5992 Sep 23 05:52	25° $\text{M}$ 56'04	
max. Earth dist.	5991 Oct 22 23:26	7° $\text{M}$ 32'12	1.36669 AU		5992 Sep 25 04:19	0° $\text{O}$	
evening rise	5991 Oct 26 19:24	14° $\text{M}$ 40'43					
desc. node	5991 Nov 03 21:33	28° $\text{M}$ 42'04		superior conj	5992 Sep 30 11:27	11° $\text{O}$ 10'49	1°42'54
	5991 Nov 04 16:34	0° $\text{Z}$		minimum elong	5992 Sep 30 11:21	11° $\text{O}$ 10'20	1°42'55
	5991 Nov 25 20:10	0° $\text{Z}$		max. Earth dist.	5992 Oct 04 11:27	19° $\text{O}$ 24'16	1.34882 AU
evening max el	5991 Dec 01 11:41	6° $\text{Z}$ 06'30	25°50'34	evening rise	5992 Oct 08 19:16	27° $\text{O}$ 54'14	
retrograde	5991 Dec 13 22:14	13° $\text{Z}$ 12'44			5992 Oct 09 21:47	0° $\text{M}$	
evening set	5991 Dec 20 00:04	10° $\text{Z}$ 42'27		desc. node	5992 Oct 20 18:35	18° $\text{M}$ 59'47	
min. Earth dist.	5991 Dec 24 07:17	6° $\text{Z}$ 04'20	0.67002 AU		5992 Oct 27 22:53	0° $\text{Z}$	
inferior conj	5991 Dec 25 16:46	4° $\text{Z}$ 18'51	-0°05'54	evening max el	5992 Nov 13 00:32	19° $\text{Z}$ 46'40	26°46'51
minimum elong	5991 Dec 25 16:55	4° $\text{Z}$ 18'23	0°05'48	retrograde	5992 Nov 26 02:56	27° $\text{Z}$ 03'41	
transit middle	5991 Dec 25 16:55	4° $\text{Z}$ 18'23	0°05'48	evening set	5992 Dec 02 16:57	24° $\text{Z}$ 25'58	

min. Earth dist.	5992 Dec 06 17:45	20° $\text{♁}$ 22'48	0.65896 AU	evening max el	5993 Oct 26 13:06	3° $\text{♁}$ 13'17	27°20'45
inferior conj	5992 Dec 08 14:44	18° $\text{♁}$ 10'59	-1°06'09	retrograde	5993 Nov 09 01:30	10° $\text{♁}$ 31'33	
minimum elong	5992 Dec 08 16:37	18° $\text{♁}$ 05'29	1°05'20	evening set	5993 Nov 16 01:01	7° $\text{♁}$ 53'35	
asc. node	5992 Dec 11 20:47	14° $\text{♁}$ 38'21		min. Earth dist.	5993 Nov 19 20:15	4° $\text{♁}$ 24'23	0.64453 AU
morning rise	5992 Dec 14 17:11	12° $\text{♁}$ 30'34		inferior conj	5993 Nov 22 05:01	1° $\text{♁}$ 52'44	-2°10'10
direct	5992 Dec 17 13:22	11° $\text{♁}$ 45'54		minimum elong	5993 Nov 22 08:53	1° $\text{♁}$ 42'24	2°08'37
morning max el	5992 Dec 24 02:04	15° $\text{♁}$ 17'08	18°18'37		5993 Nov 24 00:17	30° $\text{♁}$	
	5993 Jan 03 20:36	0° $\text{♁}$		morning rise	5993 Nov 28 18:06	26° $\text{♁}$ 26'19	
morning set	5993 Jan 12 09:34	13° $\text{♁}$ 40'51		asc. node	5993 Nov 28 17:49	26° $\text{♁}$ 26'38	
desc. node	5993 Jan 16 17:51	20° $\text{♁}$ 39'51		direct	5993 Dec 01 07:06	25° $\text{♁}$ 53'09	
	5993 Jan 22 14:35	0° $\text{♁}$		morning max el	5993 Dec 07 18:33	29° $\text{♁}$ 17'50	17°55'04
					5993 Dec 08 10:53	0° $\text{♁}$	
superior conj	5993 Jan 27 18:59	8° $\text{♁}$ 10'09	-1°12'19	morning set	5993 Dec 24 23:13	25° $\text{♁}$ 17'24	
minimum elong	5993 Jan 27 10:31	7° $\text{♁}$ 36'56	1°11'18		5993 Dec 27 18:25	0° $\text{♁}$	
max. Earth dist.	5993 Jan 29 08:16	10° $\text{♁}$ 36'26	1.45370 AU	desc. node	5994 Jan 03 14:52	11° $\text{♁}$ 20'49	
	5993 Feb 10 17:48	0° $\text{♁}$					
evening rise	5993 Feb 12 21:29	3° $\text{♁}$ 22'22		superior conj	5994 Jan 07 09:30	17° $\text{♁}$ 28'05	-0°26'23
greatest brilliancy	5993 Feb 23 22:13	20° $\text{♁}$ 34'20	-0.8m	minimum elong	5994 Jan 07 06:23	17° $\text{♁}$ 15'33	0°25'54
	5993 Mar 02 07:24	0° $\text{♁}$		max. Earth dist.	5994 Jan 12 03:31	25° $\text{♁}$ 02'35	1.44885 AU
evening max el	5993 Mar 08 05:51	7° $\text{♁}$ 19'51	19°13'38		5994 Jan 15 07:08	0° $\text{♁}$	
asc. node	5993 Mar 09 20:02	8° $\text{♁}$ 49'19		evening rise	5994 Jan 23 11:39	12° $\text{♁}$ 41'47	
retrograde	5993 Mar 15 06:03	11° $\text{♁}$ 18'26			5994 Feb 03 21:07	0° $\text{♁}$	
evening set	5993 Mar 18 17:01	10° $\text{♁}$ 08'43		greatest brilliancy	5994 Feb 07 06:08	4° $\text{♁}$ 59'38	-0.6m
inferior conj	5993 Mar 24 05:01	4° $\text{♁}$ 19'07	3°24'37	evening max el	5994 Feb 19 09:59	20° $\text{♁}$ 54'33	20°09'14
minimum elong	5993 Mar 24 03:52	4° $\text{♁}$ 22'51	3°24'30	asc. node	5994 Feb 24 17:05	24° $\text{♁}$ 53'52	
min. Earth dist.	5993 Mar 25 15:17	2° $\text{♁}$ 28'48	0.66345 AU	retrograde	5994 Feb 27 04:09	25° $\text{♁}$ 25'46	
	5993 Mar 27 16:30	30° $\text{♁}$		evening set	5994 Mar 02 23:32	24° $\text{♁}$ 01'32	
morning rise	5993 Mar 29 14:21	28° $\text{♁}$ 03'36		inferior conj	5994 Mar 08 08:25	17° $\text{♁}$ 58'02	3°06'41
direct	5993 Apr 04 21:55	25° $\text{♁}$ 16'19		minimum elong	5994 Mar 08 06:25	18° $\text{♁}$ 04'45	3°06'19
desc. node	5993 Apr 14 17:11	0° $\text{♁}$ 06'32		min. Earth dist.	5994 Mar 09 04:22	16° $\text{♁}$ 50'34	0.67384 AU
	5993 Apr 14 14:09	0° $\text{♁}$		morning rise	5994 Mar 13 13:06	11° $\text{♁}$ 43'09	
morning max el	5993 Apr 17 14:28	2° $\text{♁}$ 49'57	26°11'22	direct	5994 Mar 19 08:09	9° $\text{♁}$ 07'47	
	5993 May 08 03:54	0° $\text{♁}$		morning max el	5994 Mar 30 23:19	16° $\text{♁}$ 05'19	24°50'26
morning set	5993 May 23 17:06	26° $\text{♁}$ 29'05		desc. node	5994 Apr 01 14:12	17° $\text{♁}$ 47'12	
	5993 May 25 13:56	0° $\text{♁}$			5994 Apr 11 11:06	0° $\text{♁}$	
max. Earth dist.	5993 May 27 15:43	3° $\text{♁}$ 59'18	1.35134 AU		5994 May 01 02:34	0° $\text{♁}$	
				morning set	5994 May 06 00:35	8° $\text{♁}$ 30'15	
superior conj	5993 Jun 01 18:56	14° $\text{♁}$ 13'41	-0°40'09	max. Earth dist.	5994 May 09 15:22	15° $\text{♁}$ 02'03	1.37066 AU
minimum elong	5993 Jun 01 21:11	14° $\text{♁}$ 25'08	0°39'44				
asc. node	5993 Jun 05 19:15	22° $\text{♁}$ 30'22		superior conj	5994 May 16 05:06	27° $\text{♁}$ 30'32	-1°10'22
	5993 Jun 09 09:53	0° $\text{♁}$		minimum elong	5994 May 16 09:06	27° $\text{♁}$ 50'06	1°09'44
evening rise	5993 Jun 09 12:58	0° $\text{♁}$ 15'57			5994 May 17 11:33	0° $\text{♁}$	
	5993 Jun 27 13:39	0° $\text{♁}$		asc. node	5994 May 23 16:18	12° $\text{♁}$ 23'52	
evening max el	5993 Jun 28 00:50	0° $\text{♁}$ 28'02	20°33'10	evening rise	5994 May 24 15:58	14° $\text{♁}$ 22'35	
retrograde	5993 Jul 09 04:39	5° $\text{♁}$ 56'52			5994 Jun 01 21:47	0° $\text{♁}$	
evening set	5993 Jul 11 05:05	5° $\text{♁}$ 46'52		evening max el	5994 Jun 10 14:53	11° $\text{♁}$ 59'01	19°26'05
desc. node	5993 Jul 11 16:25	5° $\text{♁}$ 41'45		retrograde	5994 Jun 20 01:09	16° $\text{♁}$ 36'18	
inferior conj	5993 Jul 20 10:46	1° $\text{♁}$ 49'55	-2°35'28	evening set	5994 Jun 21 23:16	16° $\text{♁}$ 25'37	
minimum elong	5993 Jul 20 03:39	2° $\text{♁}$ 00'10	2°32'59	desc. node	5994 Jun 28 13:28	13° $\text{♁}$ 36'37	
min. Earth dist.	5993 Jul 21 15:03	1° $\text{♁}$ 09'08	0.54867 AU	inferior conj	5994 Jun 30 14:35	12° $\text{♁}$ 19'07	-0°36'55
	5993 Jul 23 16:38	30° $\text{♁}$		minimum elong	5994 Jun 30 12:57	12° $\text{♁}$ 21'46	0°36'20
morning rise	5993 Jul 29 01:32	27° $\text{♁}$ 44'06		min. Earth dist.	5994 Jul 03 04:19	10° $\text{♁}$ 39'47	0.55791 AU
direct	5993 Aug 01 23:57	27° $\text{♁}$ 10'46		morning rise	5994 Jul 08 23:58	7° $\text{♁}$ 41'14	
	5993 Aug 10 17:19	0° $\text{♁}$		direct	5994 Jul 13 18:35	6° $\text{♁}$ 49'45	
morning max el	5993 Aug 15 06:55	3° $\text{♁}$ 36'15	23°22'00	morning max el	5994 Jul 27 20:07	13° $\text{♁}$ 55'03	25°05'13
asc. node	5993 Sep 01 18:31	28° $\text{♁}$ 47'27			5994 Aug 09 11:28	0° $\text{♁}$	
	5993 Sep 02 09:39	0° $\text{♁}$		asc. node	5994 Aug 19 15:33	18° $\text{♁}$ 17'34	
morning set	5993 Sep 07 17:15	10° $\text{♁}$ 48'14		morning set	5994 Aug 23 04:57	25° $\text{♁}$ 39'35	
					5994 Aug 25 05:29	0° $\text{♁}$	
superior conj	5993 Sep 14 17:12	25° $\text{♁}$ 51'54	1°39'11	superior conj	5994 Aug 30 02:51	10° $\text{♁}$ 42'16	1°29'42
minimum elong	5993 Sep 14 15:58	25° $\text{♁}$ 45'12	1°39'07	minimum elong	5994 Aug 30 00:52	10° $\text{♁}$ 31'21	1°29'29
	5993 Sep 16 15:37	0° $\text{♁}$		max. Earth dist.	5994 Aug 31 13:09	13° $\text{♁}$ 49'43	1.32514 AU
max. Earth dist.	5993 Sep 17 08:21	1° $\text{♁}$ 28'39	1.33484 AU	evening rise	5994 Sep 06 06:41	26° $\text{♁}$ 00'23	
evening rise	5993 Sep 22 08:15	11° $\text{♁}$ 44'36			5994 Sep 08 05:55	0° $\text{♁}$	
	5993 Oct 02 04:40	0° $\text{♁}$		desc. node	5994 Sep 24 12:40	28° $\text{♁}$ 23'04	
desc. node	5993 Oct 07 15:38	8° $\text{♁}$ 56'44			5994 Sep 25 15:05	0° $\text{♁}$	
	5993 Oct 23 09:13	0° $\text{♁}$					

evening max el	5994 Oct 08 23:12	16° $\mathbb{M}$ 11'55	27°25'57		5995 Sep 22 20:18	0° $\mathbb{M}$	
retrograde	5994 Oct 22 17:11	23° $\mathbb{M}$ 26'37		retrograde	5995 Oct 05 01:19	5° $\mathbb{M}$ 39'51	
evening set	5994 Oct 29 21:06	20° $\mathbb{M}$ 57'49		evening set	5995 Oct 12 01:11	3° $\mathbb{M}$ 31'54	
min. Earth dist.	5994 Nov 02 12:44	17° $\mathbb{M}$ 58'32	0.62695 AU	min. Earth dist.	5995 Oct 15 18:21	0° $\mathbb{M}$ 52'43	0.60694 AU
inferior conj	5994 Nov 05 08:43	15° $\mathbb{M}$ 16'14	-3°15'09		5995 Oct 16 19:56	30° $\mathbb{R}$ $\underline{\mathbb{A}}$	
minimum elong	5994 Nov 05 14:26	15° $\mathbb{M}$ 02'33	3°13'12	inferior conj	5995 Oct 18 22:31	28° $\underline{\mathbb{A}}$ 12'52	-4°15'56
morning rise	5994 Nov 12 09:31	10° $\mathbb{M}$ 07'22		minimum elong	5995 Oct 19 05:06	27° $\underline{\mathbb{A}}$ 59'01	4°14'14
direct	5994 Nov 14 17:56	9° $\mathbb{M}$ 42'04		morning rise	5995 Oct 26 11:05	23° $\underline{\mathbb{A}}$ 25'01	
asc. node	5994 Nov 15 14:50	9° $\mathbb{M}$ 45'38		direct	5995 Oct 28 18:01	23° $\underline{\mathbb{A}}$ 04'28	
morning max el	5994 Nov 21 11:17	13° $\mathbb{M}$ 08'44	17°49'16	asc. node	5995 Nov 02 11:51	24° $\underline{\mathbb{A}}$ 37'03	
	5994 Dec 02 22:57	0° $\mathbb{X}$		morning max el	5995 Nov 05 01:01	26° $\underline{\mathbb{A}}$ 41'44	18°02'14
morning set	5994 Dec 07 12:15	8° $\mathbb{X}$ 01'07			5995 Nov 07 22:37	0° $\mathbb{M}$	
				morning set	5995 Nov 20 18:15	21° $\mathbb{M}$ 32'40	
					5995 Nov 25 07:53	0° $\mathbb{X}$	
superior conj	5994 Dec 19 00:15	27° $\mathbb{X}$ 57'42	0°17'41				
minimum elong	5994 Dec 19 01:57	28° $\mathbb{X}$ 04'52	0°17'28				
	5994 Dec 20 05:28	0° $\mathbb{Z}$		superior conj	5995 Nov 30 16:55	9° $\mathbb{X}$ 42'37	0°53'25
desc. node	5994 Dec 21 11:53	2° $\mathbb{Z}$ 06'22		minimum elong	5995 Nov 30 20:37	9° $\mathbb{X}$ 58'55	0°52'56
max. Earth dist.	5994 Dec 25 20:23	9° $\mathbb{Z}$ 13'10	1.43714 AU	desc. node	5995 Dec 08 08:54	22° $\mathbb{X}$ 53'04	
evening rise	5995 Jan 02 22:53	22° $\mathbb{Z}$ 01'21		max. Earth dist.	5995 Dec 08 08:15	22° $\mathbb{X}$ 50'22	1.41998 AU
	5995 Jan 08 03:55	0° $\approx$			5995 Dec 12 17:04	0° $\mathbb{Z}$	
	5995 Jan 29 08:48	0° $\mathbb{X}$		evening rise	5995 Dec 13 22:17	1° $\mathbb{Z}$ 57'15	
evening max el	5995 Feb 02 08:33	4° $\mathbb{X}$ 30'10	21°17'34		5996 Jan 01 14:47	0° $\approx$	
retrograde	5995 Feb 11 02:09	9° $\mathbb{X}$ 40'31		evening max el	5996 Jan 16 02:02	18° $\approx$ 07'21	22°34'27
asc. node	5995 Feb 11 14:06	9° $\mathbb{X}$ 39'12		retrograde	5996 Jan 25 22:22	23° $\approx$ 58'29	
evening set	5995 Feb 15 07:19	8° $\mathbb{X}$ 01'06		asc. node	5996 Jan 29 11:06	22° $\approx$ 53'57	
inferior conj	5995 Feb 20 15:12	1° $\mathbb{X}$ 46'15	2°38'40	evening set	5996 Jan 30 14:44	22° $\approx$ 03'41	
minimum elong	5995 Feb 20 12:51	1° $\mathbb{X}$ 54'24	2°38'03	inferior conj	5996 Feb 04 23:21	15° $\approx$ 40'49	2°01'59
min. Earth dist.	5995 Feb 20 22:11	1° $\mathbb{X}$ 22'01	0.67991 AU	minimum elong	5996 Feb 04 21:06	15° $\approx$ 48'38	2°01'15
	5995 Feb 21 22:05	30° $\mathbb{R}$ $\approx$		min. Earth dist.	5996 Feb 04 18:33	15° $\approx$ 57'29	0.68196 AU
morning rise	5995 Feb 25 18:12	25° $\approx$ 33'33		morning rise	5996 Feb 10 03:22	9° $\approx$ 31'36	
direct	5995 Mar 02 23:00	23° $\approx$ 17'07		direct	5996 Feb 14 17:39	7° $\approx$ 37'27	
morning max el	5995 Mar 13 08:25	29° $\approx$ 27'42	23°21'29	morning max el	5996 Feb 23 20:50	12° $\approx$ 57'54	21°53'51
	5995 Mar 13 21:04	0° $\mathbb{X}$		desc. node	5996 Mar 05 08:12	25° $\approx$ 44'15	
desc. node	5995 Mar 19 11:12	6° $\mathbb{X}$ 25'13			5996 Mar 08 09:52	0° $\mathbb{X}$	
	5995 Apr 05 06:25	0° $\mathbb{Y}$		morning set	5996 Mar 27 12:40	28° $\mathbb{X}$ 54'35	
morning set	5995 Apr 17 08:42	19° $\mathbb{Y}$ 22'31			5996 Mar 28 04:57	0° $\mathbb{Y}$	
max. Earth dist.	5995 Apr 21 11:06	26° $\mathbb{Y}$ 23'59	1.39244 AU	max. Earth dist.	5996 Apr 02 09:36	8° $\mathbb{Y}$ 30'41	1.41414 AU
	5995 Apr 23 12:13	0° $\mathbb{Z}$					
				superior conj	5996 Apr 10 02:20	21° $\mathbb{Y}$ 42'12	-1°59'44
superior conj	5995 Apr 29 01:09	10° $\mathbb{Z}$ 03'59	-1°38'11	minimum elong	5996 Apr 10 06:53	22° $\mathbb{Y}$ 02'15	1°59'27
minimum elong	5995 Apr 29 06:19	10° $\mathbb{Z}$ 28'01	1°37'35		5996 Apr 14 17:38	0° $\mathbb{Z}$	
evening rise	5995 May 08 10:55	28° $\mathbb{Z}$ 01'55		evening rise	5996 Apr 20 18:11	11° $\mathbb{Z}$ 04'05	
	5995 May 09 11:25	0° $\mathbb{H}$		asc. node	5996 Apr 26 10:21	21° $\mathbb{Z}$ 25'34	
asc. node	5995 May 10 13:20	2° $\mathbb{H}$ 04'15			5996 May 01 13:53	0° $\mathbb{H}$	
evening max el	5995 May 24 15:47	24° $\mathbb{H}$ 10'41	18°39'31	evening max el	5996 May 07 00:05	6° $\mathbb{H}$ 54'13	18°13'15
retrograde	5995 Jun 01 15:24	28° $\mathbb{H}$ 07'13		retrograde	5996 May 14 00:13	10° $\mathbb{H}$ 25'29	
evening set	5995 Jun 03 18:50	27° $\mathbb{H}$ 51'10		evening set	5996 May 16 10:46	10° $\mathbb{H}$ 00'36	
inferior conj	5995 Jun 11 14:19	23° $\mathbb{H}$ 26'31	1°06'21	inferior conj	5996 May 23 11:28	5° $\mathbb{H}$ 15'43	2°20'24
minimum elong	5995 Jun 11 16:39	23° $\mathbb{H}$ 22'06	1°05'31	minimum elong	5996 May 23 14:50	5° $\mathbb{H}$ 08'16	2°19'29
min. Earth dist.	5995 Jun 14 21:36	20° $\mathbb{H}$ 57'52	0.57469 AU	min. Earth dist.	5996 May 26 20:54	2° $\mathbb{H}$ 17'24	0.59585 AU
desc. node	5995 Jun 15 10:28	20° $\mathbb{H}$ 35'04			5996 May 29 22:13	30° $\mathbb{R}$ $\mathbb{Z}$	
morning rise	5995 Jun 19 11:08	18° $\mathbb{H}$ 12'11		morning rise	5996 May 30 16:04	29° $\mathbb{Z}$ 32'28	
direct	5995 Jun 25 03:14	16° $\mathbb{H}$ 52'14		desc. node	5996 Jun 01 07:29	28° $\mathbb{Z}$ 41'37	
morning max el	5995 Jul 09 12:15	24° $\mathbb{H}$ 26'10	26°33'12	direct	5996 Jun 06 01:29	27° $\mathbb{Z}$ 38'31	
	5995 Jul 14 14:31	0° $\mathbb{S}$			5996 Jun 13 13:36	0° $\mathbb{H}$	
	5995 Aug 02 12:26	0° $\mathbb{Q}$		morning max el	5996 Jun 20 10:29	5° $\mathbb{H}$ 30'35	27°31'53
asc. node	5995 Aug 06 12:35	8° $\mathbb{Q}$ 04'55			5996 Jul 08 15:27	0° $\mathbb{S}$	
morning set	5995 Aug 07 15:22	10° $\mathbb{Q}$ 25'27		morning set	5996 Jul 21 22:48	25° $\mathbb{S}$ 00'05	
				asc. node	5996 Jul 23 09:36	28° $\mathbb{S}$ 03'26	
superior conj	5995 Aug 14 14:24	25° $\mathbb{Q}$ 35'47	1°15'09		5996 Jul 24 07:26	0° $\mathbb{Q}$	
minimum elong	5995 Aug 14 12:07	25° $\mathbb{Q}$ 23'09	1°14'47	max. Earth dist.	5996 Jul 28 09:47	8° $\mathbb{Q}$ 56'28	1.31859 AU
max. Earth dist.	5995 Aug 14 22:51	26° $\mathbb{Q}$ 22'25	1.31975 AU				
	5995 Aug 16 14:17	0° $\mathbb{H}$		superior conj	5996 Jul 29 02:04	10° $\mathbb{Q}$ 26'19	0°56'04
evening rise	5995 Aug 21 11:41	10° $\mathbb{H}$ 33'28		minimum elong	5996 Jul 28 23:57	10° $\mathbb{Q}$ 14'41	0°55'39
	5995 Aug 31 11:55	0° $\underline{\mathbb{A}}$		evening rise	5996 Aug 04 20:53	25° $\mathbb{Q}$ 16'26	
desc. node	5995 Sep 11 09:41	17° $\underline{\mathbb{A}}$ 06'28			5996 Aug 07 02:57	0° $\mathbb{H}$	
evening max el	5995 Sep 21 04:05	28° $\underline{\mathbb{A}}$ 29'20	26°58'11		5996 Aug 24 11:58	0° $\underline{\mathbb{A}}$	

desc. node	5996 Aug 28 06:43	4°♌49'49		desc. node	5997 Aug 15 03:45	21°♏08'43	
evening max el	5996 Sep 02 01:41	9°♌58'07	25°57'44	retrograde	5997 Aug 28 12:40	27°♏39'57	
retrograde	5996 Sep 16 00:42	17°♌04'32		evening set	5997 Sep 02 15:11	26°♏41'48	
evening set	5996 Sep 22 08:28	15°♌28'55		min. Earth dist.	5997 Sep 08 03:26	23°♏51'43	0.56722 AU
min. Earth dist.	5996 Sep 26 14:19	12°♌53'35	0.58615 AU	inferior conj	5997 Sep 10 19:30	22°♏09'39	-5°22'40
inferior conj	5996 Sep 29 18:59	10°♌33'35	-5°03'17	minimum elong	5997 Sep 10 19:25	22°♏09'46	5°22'41
minimum elong	5996 Sep 30 00:01	10°♌24'21	5°02'33	morning rise	5997 Sep 19 01:59	18°♏05'57	
morning rise	5996 Oct 07 17:53	6°♌08'34		direct	5997 Sep 21 17:18	17°♏46'57	
direct	5996 Oct 10 02:58	5°♌50'02		morning max el	5997 Oct 01 05:48	22°♏15'19	19°30'18
morning max el	5996 Oct 18 08:22	9°♌47'35	18°35'25	asc. node	5997 Oct 06 05:55	28°♏08'00	
asc. node	5996 Oct 19 08:52	10°♌49'45			5997 Oct 07 12:51	0°♏	
	5996 Oct 31 13:49	0°♌		morning set	5997 Oct 18 14:10	20°♌04'46	
morning set	5996 Nov 03 12:10	5°♌37'36			5997 Oct 23 12:25	0°♌	
superior conj	5996 Nov 12 07:16	22°♌30'15	1°18'58	superior conj	5997 Oct 26 13:51	6°♌04'35	1°34'47
minimum elong	5996 Nov 12 10:44	22°♌46'28	1°18'36	minimum elong	5997 Oct 26 16:04	6°♌15'29	1°34'39
	5996 Nov 16 09:16	0°♌		max. Earth dist.	5997 Nov 01 20:06	18°♌00'30	1.37837 AU
max. Earth dist.	5996 Nov 19 15:04	5°♌44'45	1.39955 AU	evening rise	5997 Nov 05 14:03	24°♌46'29	
evening rise	5996 Nov 23 18:57	12°♌51'41			5997 Nov 08 14:15	0°♌	
desc. node	5996 Nov 24 05:55	13°♌37'33		desc. node	5997 Nov 11 02:57	4°♌15'23	
	5996 Dec 04 12:49	0°♌			5997 Nov 28 04:44	0°♌	
	5996 Dec 26 22:18	0°♌		evening max el	5997 Dec 11 05:14	15°♌33'16	25°10'59
evening max el	5996 Dec 28 16:17	1°♌48'37	23°54'26	retrograde	5997 Dec 23 04:13	22°♌27'56	
retrograde	5997 Jan 08 15:28	8°♌16'07		evening set	5997 Dec 28 22:21	20°♌04'33	
evening set	5997 Jan 13 20:17	6°♌06'20		asc. node	5998 Jan 02 05:10	15°♌20'46	
asc. node	5997 Jan 15 08:07	4°♌40'01		min. Earth dist.	5998 Jan 02 09:42	15°♌06'09	0.67483 AU
min. Earth dist.	5997 Jan 18 15:11	0°♌33'38	0.68023 AU	inferior conj	5998 Jan 03 12:36	13°♌38'29	0°26'26
inferior conj	5997 Jan 19 07:06	29°♌39'31	1°17'40	minimum elong	5998 Jan 03 11:57	13°♌40'37	0°26'12
minimum elong	5997 Jan 19 05:25	29°♌45'16	1°17'02	morning rise	5998 Jan 09 01:48	7°♌41'39	
	5997 Jan 19 01:05	30°♌		direct	5998 Jan 12 13:59	6°♌30'46	
morning rise	5997 Jan 24 14:34	23°♌35'27		morning max el	5998 Jan 19 18:43	10°♌31'58	19°29'37
direct	5997 Jan 28 15:07	22°♌03'49		greatest brilliancy	5998 Feb 01 19:43	27°♌46'42	-0.7m
morning max el	5997 Feb 05 15:48	26°♌39'25	20°35'02		5998 Feb 03 07:23	0°♌	
	5997 Feb 08 17:02	0°♌		desc. node	5998 Feb 07 02:14	5°♌43'54	
desc. node	5997 Feb 20 05:13	15°♌33'23		morning set	5998 Feb 13 13:21	15°♌39'07	
	5997 Mar 01 21:21	0°♌			5998 Feb 22 18:43	0°♌	
morning set	5997 Mar 06 15:55	7°♌20'48		max. Earth dist.	5998 Feb 26 04:05	5°♌20'30	1.44654 AU
max. Earth dist.	5997 Mar 15 15:06	21°♌32'02	1.43299 AU	superior conj	5998 Mar 02 04:46	11°♌45'09	-2°02'32
	5997 Mar 20 19:20	0°♌		minimum elong	5998 Mar 01 23:01	11°♌22'06	2°02'14
superior conj	5997 Mar 22 04:07	2°♌16'23	-2°09'45		5998 Mar 13 09:04	0°♌	
minimum elong	5997 Mar 22 04:50	2°♌19'23	2°09'45	evening rise	5998 Mar 16 04:38	4°♌42'02	
evening rise	5997 Apr 03 09:34	23°♌20'08		asc. node	5998 Mar 31 04:25	28°♌44'55	
	5997 Apr 07 04:28	0°♌			5998 Apr 01 03:03	0°♌	
asc. node	5997 Apr 13 07:23	10°♌21'41		evening max el	5998 Apr 04 01:16	3°♌22'51	18°18'31
evening max el	5997 Apr 20 12:18	20°♌00'54	18°06'27	retrograde	5998 Apr 10 11:12	6°♌49'05	
retrograde	5997 Apr 27 00:15	23°♌22'28		evening set	5998 Apr 13 11:13	6°♌00'28	
evening set	5997 Apr 29 17:42	22°♌46'23		inferior conj	5998 Apr 19 09:39	0°♌36'46	3°26'36
inferior conj	5997 May 06 03:16	17°♌41'33	3°05'23	minimum elong	5998 Apr 19 10:37	0°♌34'01	3°26'31
minimum elong	5997 May 06 05:46	17°♌35'13	3°04'56		5998 Apr 19 22:33	30°♌	
min. Earth dist.	5997 May 09 03:59	14°♌38'34	0.61806 AU	min. Earth dist.	5998 Apr 21 20:10	27°♌51'22	0.63850 AU
morning rise	5997 May 12 15:59	11°♌40'20		morning rise	5998 Apr 25 09:04	24°♌26'07	
direct	5997 May 19 10:42	9°♌16'17		direct	5998 May 02 04:29	21°♌43'01	
desc. node	5997 May 19 04:31	9°♌16'29		desc. node	5998 May 06 01:33	22°♌29'05	
morning max el	5997 Jun 02 14:45	17°♌16'40	27°53'40	morning max el	5998 May 15 23:17	29°♌42'07	27°38'11
	5997 Jun 13 04:09	0°♌			5998 May 16 06:21	0°♌	
	5997 Jul 01 08:40	0°♌		morning set	5998 Jun 07 03:11	0°♌	
morning set	5997 Jul 06 01:19	9°♌17'12			5998 Jun 19 20:33	23°♌10'08	
asc. node	5997 Jul 10 06:38	18°♌08'13			5998 Jun 23 05:30	0°♌	
max. Earth dist.	5997 Jul 11 18:10	21°♌19'41	1.32181 AU	max. Earth dist.	5998 Jun 24 20:16	3°♌21'46	1.32960 AU
				asc. node	5998 Jun 27 03:41	8°♌15'18	
superior conj	5997 Jul 13 12:03	25°♌07'52	0°32'57	superior conj	5998 Jun 27 18:34	9°♌34'56	0°06'25
minimum elong	5997 Jul 13 10:37	24°♌59'57	0°32'37	minimum elong	5998 Jun 27 18:15	9°♌33'14	0°06'19
	5997 Jul 15 17:21	0°♌		behind sun begin	5998 Jun 27 13:17	9°♌06'38	
evening rise	5997 Jul 20 08:16	10°♌02'34		behind sun end	5998 Jun 27 23:12	9°♌59'51	
	5997 Jul 30 12:43	0°♌		evening rise	5998 Jul 04 19:58	24°♌46'13	
evening max el	5997 Aug 14 16:17	20°♌41'36	24°31'36				

	5998 Jul 07 08:01	0°♊		asc. node	5999 Jun 14 00:43	28°♊20'01	
	5998 Jul 26 04:25	0°♋			5999 Jun 14 19:40	0°♋	
evening max el	5998 Jul 27 04:47	1°♋01'18	22°53'46	evening rise	5999 Jun 19 06:00	9°♋20'15	
desc. node	5998 Aug 02 00:48	5°♋32'01			5999 Jun 30 03:52	0°♌	
retrograde	5998 Aug 09 11:48	7°♋39'22		evening max el	5999 Jul 08 23:21	11°♌30'12	21°20'15
evening set	5998 Aug 13 01:54	7°♋11'15		desc. node	5999 Jul 19 21:51	17°♌25'51	
min. Earth dist.	5998 Aug 20 13:09	3°♋51'01	0.55341 AU	retrograde	5999 Jul 21 01:39	17°♌29'04	
inferior conj	5998 Aug 22 00:51	2°♋59'43	-4°56'58	evening set	5999 Jul 23 10:42	17°♌16'01	
minimum elong	5998 Aug 21 18:08	3°♋09'24	4°55'54	inferior conj	5999 Aug 01 18:33	13°♌17'09	-3°38'37
	5998 Aug 27 21:08	30°♋♌		minimum elong	5999 Aug 01 09:37	13°♌29'40	3°35'59
morning rise	5998 Aug 30 12:31	29°♌09'35		min. Earth dist.	5999 Aug 01 22:49	13°♌11'10	0.54763 AU
direct	5998 Sep 02 13:25	28°♌48'01		morning rise	5999 Aug 10 09:21	9°♌23'24	
	5998 Sep 07 22:01	0°♍		direct	5999 Aug 13 22:23	8°♌56'20	
morning max el	5998 Sep 13 15:03	3°♍57'28	20°47'05	morning max el	5999 Aug 26 12:41	14°♌53'54	22°22'27
asc. node	5998 Sep 23 02:58	16°♍17'26			5999 Sep 07 02:02	0°♎	
	5998 Sep 30 13:12	0°♏		asc. node	5999 Sep 10 00:01	5°♎05'13	
morning set	5998 Oct 02 21:29	4°♏46'30		morning set	5999 Sep 17 07:52	19°♎35'48	
					5999 Sep 22 05:10	0°♐	
superior conj	5998 Oct 10 08:10	20°♐12'58	1°42'04				
minimum elong	5998 Oct 10 08:53	20°♐16'38	1°42'05	superior conj	5999 Sep 24 10:32	4°♐44'04	1°42'05
max. Earth dist.	5998 Oct 15 04:33	29°♐56'05	1.35876 AU	minimum elong	5999 Sep 24 09:54	4°♐40'46	1°42'05
	5998 Oct 15 05:21	0°♑		max. Earth dist.	5999 Sep 27 20:22	11°♐51'52	1.34234 AU
evening rise	5998 Oct 19 04:37	7°♑34'16		evening rise	5999 Oct 02 10:29	21°♐03'52	
desc. node	5998 Oct 28 23:59	24°♑42'07			5999 Oct 07 04:15	0°♒	
	5998 Nov 01 07:25	0°♓		desc. node	5999 Oct 15 21:03	14°♒51'46	
evening max el	5998 Nov 23 18:09	29°♓17'28	26°16'41		5999 Oct 26 04:39	0°♓	
	5998 Nov 24 12:03	0°♔		evening max el	5999 Nov 06 06:57	12°♓52'46	27°04'18
retrograde	5998 Dec 06 11:52	6°♔28'35		retrograde	5999 Nov 19 13:56	20°♓11'04	
evening set	5998 Dec 12 19:10	3°♔54'35		evening set	5999 Nov 26 08:39	17°♓31'57	
	5998 Dec 16 14:07	30°♔♓		min. Earth dist.	5999 Nov 30 06:52	13°♓43'49	0.65329 AU
min. Earth dist.	5998 Dec 16 23:41	29°♓31'22	0.66586 AU	inferior conj	5999 Dec 02 08:58	11°♓22'30	-1°32'56
inferior conj	5998 Dec 18 13:57	27°♓34'15	-0°30'50	minimum elong	5999 Dec 02 11:40	11°♓14'52	1°31'48
minimum elong	5998 Dec 18 14:47	27°♓31'41	0°30'26	asc. node	5999 Dec 06 23:16	6°♓50'18	
asc. node	5998 Dec 20 02:14	25°♓45'18		morning rise	5999 Dec 08 15:47	5°♓47'56	
morning rise	5998 Dec 24 11:01	21°♓47'09		direct	5999 Dec 11 08:39	5°♓08'38	
direct	5998 Dec 27 12:33	20°♓53'55		morning max el	5999 Dec 17 19:53	8°♓35'40	18°06'31
morning max el	5999 Jan 03 04:50	24°♓32'36	18°39'46		6000 Jan 01 13:57	0°♔	
	5999 Jan 07 19:17	0°♕		morning set	6000 Jan 05 02:41	5°♔47'48	
morning set	5999 Jan 24 05:18	24°♕58'57		desc. node	6000 Jan 11 20:15	16°♕46'26	
desc. node	5999 Jan 24 23:14	26°♕09'42					
	5999 Jan 27 09:42	0°♖		superior conj	6000 Jan 19 16:54	29°♕20'02	-0°53'14
				minimum elong	6000 Jan 19 10:26	28°♕54'29	0°52'21
superior conj	5999 Feb 09 11:00	20°♖29'11	-1°35'23		6000 Jan 20 03:01	0°♗	
minimum elong	5999 Feb 09 01:30	19°♖51'53	1°34'27	max. Earth dist.	6000 Jan 22 17:52	4°♖07'31	1.45253 AU
max. Earth dist.	5999 Feb 08 22:12	19°♖38'57	1.45326 AU	evening rise	6000 Feb 04 23:06	24°♖43'01	
	5999 Feb 15 12:13	0°♘			6000 Feb 08 09:01	0°♘	
evening rise	5999 Feb 25 00:29	15°♘06'29		greatest brilliancy	6000 Feb 17 21:45	14°♘34'27	-0.7m
greatest brilliancy	5999 Mar 04 22:03	27°♘44'04	-0.9m		6000 Feb 29 09:15	0°♙	
	5999 Mar 06 08:26	0°♚		evening max el	6000 Feb 29 19:15	0°♙26'00	19°35'27
asc. node	5999 Mar 18 01:29	16°♙24'32		asc. node	6000 Mar 03 22:32	3°♙08'09	
evening max el	5999 Mar 18 12:17	16°♙52'33	18°48'36	retrograde	6000 Mar 08 02:24	4°♙37'49	
retrograde	5999 Mar 25 05:00	20°♙36'13		evening set	6000 Mar 11 16:45	3°♙22'00	
evening set	5999 Mar 28 11:47	19°♙34'18			6000 Mar 15 02:59	30°♙♈	
inferior conj	5999 Apr 03 02:41	13°♙53'23	3°29'32	inferior conj	6000 Mar 17 03:07	27°♙25'55	3°18'21
minimum elong	5999 Apr 03 02:13	13°♙54'52	3°29'30	minimum elong	6000 Mar 17 01:33	27°♙31'05	3°18'08
min. Earth dist.	5999 Apr 04 21:35	11°♙40'37	0.65551 AU	min. Earth dist.	6000 Mar 18 07:04	25°♙53'41	0.66837 AU
morning rise	5999 Apr 08 16:10	7°♙38'35		morning rise	6000 Mar 22 10:05	21°♙10'15	
direct	5999 Apr 15 05:21	4°♙49'34		direct	6000 Mar 28 12:29	18°♙27'10	
desc. node	5999 Apr 22 22:34	7°♙50'49		desc. node	6000 Apr 08 19:34	24°♙48'58	
morning max el	5999 Apr 28 09:31	12°♙36'22	26°50'22	morning max el	6000 Apr 09 19:16	25°♙47'37	25°38'35
	5999 May 12 08:28	0°♜			6000 Apr 13 15:48	0°♙	
	5999 May 30 18:05	0°♞			6000 May 04 21:22	0°♜	
morning set	5999 Jun 03 05:18	6°♞28'57		morning set	6000 May 15 23:30	19°♜02'49	
max. Earth dist.	5999 Jun 07 12:37	14°♞54'40	1.34211 AU	max. Earth dist.	6000 May 19 17:37	26°♜02'15	1.35913 AU
					6000 May 21 19:09	0°♟	
superior conj	5999 Jun 11 19:18	23°♞40'05	-0°22'43				
minimum elong	5999 Jun 11 20:32	23°♞46'29	0°22'29	superior conj	6000 May 25 11:41	7°♞16'44	-0°53'05

minimum elong	6000 May 25 14:42	7° $\Pi$ 31'51	0°52'33	superior conj	6001 May 08 16:19	20° $\mathcal{B}$ 16'01	-1°22'40
asc. node	6000 May 30 21:46	18° $\Pi$ 18'45		minimum elong	6001 May 08 20:56	20° $\mathcal{B}$ 38'11	1°22'01
evening rise	6000 Jun 02 12:15	23° $\Pi$ 38'47			6001 May 13 16:17	0° $\Pi$	
	6000 Jun 05 16:09	0° $\mathcal{E}$		evening rise	6001 May 17 12:10	7° $\Pi$ 34'17	
evening max el	6000 Jun 20 05:59	22° $\mathcal{E}$ 35'43	20°02'07	asc. node	6001 May 17 18:48	8° $\Pi$ 07'01	
retrograde	6000 Jun 30 16:14	27° $\mathcal{E}$ 42'29			6001 May 30 06:35	0° $\mathcal{E}$	
evening set	6000 Jul 02 13:53	27° $\mathcal{E}$ 33'01		evening max el	6001 Jun 03 01:03	4° $\mathcal{E}$ 24'55	19°03'49
desc. node	6000 Jul 05 18:51	26° $\mathcal{E}$ 37'56		retrograde	6001 Jun 11 19:24	8° $\mathcal{E}$ 42'51	
inferior conj	6000 Jul 11 14:42	23° $\mathcal{E}$ 33'21	-1°44'57	evening set	6001 Jun 13 19:13	8° $\mathcal{E}$ 30'27	
minimum elong	6000 Jul 11 09:49	23° $\mathcal{E}$ 40'41	1°43'10	inferior conj	6001 Jun 22 02:20	4° $\mathcal{E}$ 17'17	0°10'01
min. Earth dist.	6000 Jul 13 10:47	22° $\mathcal{E}$ 27'09	0.55147 AU	minimum elong	6001 Jun 22 02:45	4° $\mathcal{E}$ 16'35	0°09'50
morning rise	6000 Jul 20 04:03	19° $\mathcal{E}$ 14'58		transit middle	6001 Jun 22 02:45	4° $\mathcal{E}$ 16'35	0°09'50
direct	6000 Jul 24 10:14	18° $\mathcal{E}$ 35'23		transit begin	6001 Jun 21 23:45	4° $\mathcal{E}$ 21'44	
morning max el	6000 Aug 07 03:13	25° $\mathcal{E}$ 19'35	24°06'50	transit end	6001 Jun 22 05:44	4° $\mathcal{E}$ 11'25	
	6000 Aug 11 12:17	0° $\Omega$		desc. node	6001 Jun 22 15:50	3° $\mathcal{E}$ 53'57	
asc. node	6000 Aug 26 21:02	24° $\Omega$ 21'59		min. Earth dist.	6001 Jun 25 01:52	2° $\mathcal{E}$ 14'47	0.56427 AU
	6000 Aug 29 16:20	0° $\mathcal{M}$			6001 Jun 28 21:53	30° $\mathcal{R}$ $\Pi$	
morning set	6000 Aug 31 19:30	4° $\mathcal{M}$ 27'32		morning rise	6001 Jun 30 07:02	29° $\Pi$ 23'19	
				direct	6001 Jul 05 11:06	28° $\Pi$ 20'32	
superior conj	6000 Sep 07 18:10	19° $\mathcal{M}$ 29'29	1°35'50		6001 Jul 12 00:25	0° $\mathcal{E}$	
minimum elong	6000 Sep 07 16:34	19° $\mathcal{M}$ 20'43	1°35'42	morning max el	6001 Jul 19 16:59	5° $\mathcal{E}$ 40'15	25°45'27
max. Earth dist.	6000 Sep 09 20:35	24° $\mathcal{M}$ 01'30	1.33010 AU		6001 Aug 06 09:50	0° $\Omega$	
	6000 Sep 12 16:21	0° $\mathcal{L}$		asc. node	6001 Aug 13 18:03	14° $\Omega$ 00'12	
evening rise	6000 Sep 15 03:48	5° $\mathcal{L}$ 05'18		morning set	6001 Aug 16 06:50	19° $\Omega$ 17'05	
	6000 Sep 28 19:58	0° $\mathcal{M}$			6001 Aug 21 05:17	0° $\mathcal{M}$	
desc. node	6000 Oct 01 18:05	4° $\mathcal{M}$ 36'36					
evening max el	6000 Oct 18 18:28	26° $\mathcal{M}$ 07'54	27°26'49	superior conj	6001 Aug 23 04:52	4° $\mathcal{M}$ 22'13	1°24'08
	6000 Oct 23 10:04	0° $\mathcal{X}$		minimum elong	6001 Aug 23 02:42	4° $\mathcal{M}$ 10'15	1°23'51
retrograde	6000 Nov 01 09:53	3° $\mathcal{X}$ 26'01		max. Earth dist.	6001 Aug 24 03:42	6° $\mathcal{M}$ 27'47	1.32225 AU
evening set	6000 Nov 08 12:04	0° $\mathcal{X}$ 50'18		evening rise	6001 Aug 30 05:20	19° $\mathcal{M}$ 29'42	
	6000 Nov 09 13:56	30° $\mathcal{R}$ $\mathcal{M}$			6001 Sep 04 11:24	0° $\mathcal{L}$	
min. Earth dist.	6000 Nov 12 05:14	27° $\mathcal{M}$ 34'49	0.63733 AU	desc. node	6001 Sep 18 15:06	23° $\mathcal{L}$ 46'34	
inferior conj	6000 Nov 14 19:04	24° $\mathcal{M}$ 56'55	-2°37'54		6001 Sep 23 04:53	0° $\mathcal{M}$	
minimum elong	6000 Nov 14 23:46	24° $\mathcal{M}$ 44'54	2°36'06	evening max el	6001 Oct 01 02:46	8° $\mathcal{M}$ 50'58	27°18'27
morning rise	6000 Nov 21 13:05	19° $\mathcal{M}$ 37'51		retrograde	6001 Oct 14 22:47	16° $\mathcal{M}$ 04'18	
asc. node	6000 Nov 22 20:18	19° $\mathcal{M}$ 15'03		evening set	6001 Oct 22 01:56	13° $\mathcal{M}$ 43'05	
direct	6000 Nov 23 23:41	19° $\mathcal{M}$ 08'36		min. Earth dist.	6001 Oct 25 17:21	10° $\mathcal{M}$ 53'39	0.61856 AU
morning max el	6000 Nov 30 12:54	22° $\mathcal{M}$ 33'16	17°50'26	inferior conj	6001 Oct 28 17:18	8° $\mathcal{M}$ 10'29	-3°41'56
	6000 Dec 06 08:32	0° $\mathcal{X}$		minimum elong	6001 Oct 28 23:35	7° $\mathcal{M}$ 56'13	3°39'59
morning set	6000 Dec 17 03:06	17° $\mathcal{X}$ 55'11		morning rise	6001 Nov 04 23:10	3° $\mathcal{M}$ 10'02	
	6000 Dec 24 05:05	0° $\mathcal{Z}$		direct	6001 Nov 07 06:25	2° $\mathcal{M}$ 47'13	
desc. node	6000 Dec 28 17:16	7° $\mathcal{Z}$ 29'44		asc. node	6001 Nov 09 17:18	3° $\mathcal{M}$ 14'03	
				morning max el	6001 Nov 14 04:46	6° $\mathcal{M}$ 17'46	17°52'24
superior conj	6000 Dec 29 16:57	9° $\mathcal{Z}$ 06'49	-0°07'00		6001 Nov 29 10:28	0° $\mathcal{X}$	
minimum elong	6000 Dec 29 16:11	9° $\mathcal{Z}$ 03'40	0°06'51	morning set	6001 Nov 30 00:07	1° $\mathcal{X}$ 01'38	
behind sun begin	6000 Dec 29 07:16	8° $\mathcal{Z}$ 27'10					
behind sun end	6000 Dec 30 01:06	9° $\mathcal{Z}$ 40'06		superior conj	6001 Dec 10 19:02	20° $\mathcal{X}$ 09'23	0°34'02
max. Earth dist.	6001 Jan 04 11:56	18° $\mathcal{Z}$ 27'23	1.44458 AU	minimum elong	6001 Dec 10 21:55	20° $\mathcal{X}$ 21'47	0°33'38
	6001 Jan 11 20:28	0° $\approx$		desc. node	6001 Dec 15 14:19	28° $\mathcal{X}$ 16'23	
evening rise	6001 Jan 14 10:02	3° $\approx$ 57'26			6001 Dec 16 15:21	0° $\mathcal{Z}$	
	6001 Jan 31 20:54	0° $\mathcal{H}$		max. Earth dist.	6001 Dec 18 02:34	2° $\mathcal{Z}$ 24'28	1.43041 AU
evening max el	6001 Feb 11 20:57	14° $\mathcal{H}$ 00'49	20°36'54	evening rise	6001 Dec 25 00:53	13° $\mathcal{Z}$ 29'06	
asc. node	6001 Feb 18 19:34	18° $\mathcal{H}$ 40'45			6002 Jan 04 21:31	0° $\approx$	
retrograde	6001 Feb 20 00:45	18° $\mathcal{H}$ 48'36		evening max el	6002 Jan 25 17:21	27° $\approx$ 37'33	21°49'29
evening set	6001 Feb 24 00:00	17° $\mathcal{H}$ 18'09			6002 Jan 28 06:43	0° $\mathcal{H}$	
inferior conj	6001 Mar 01 08:14	11° $\mathcal{H}$ 09'26	2°55'54	retrograde	6002 Feb 03 22:08	3° $\mathcal{H}$ 05'06	
minimum elong	6001 Mar 01 06:02	11° $\mathcal{H}$ 16'58	2°55'27	asc. node	6002 Feb 05 16:34	2° $\mathcal{H}$ 48'36	
min. Earth dist.	6001 Mar 01 22:34	10° $\mathcal{H}$ 20'16	0.67695 AU	evening set	6002 Feb 08 07:49	1° $\mathcal{H}$ 19'23	
morning rise	6001 Mar 06 11:51	4° $\mathcal{H}$ 55'01			6002 Feb 09 17:49	30° $\mathcal{R}$ $\approx$	
direct	6001 Mar 12 00:54	2° $\mathcal{H}$ 26'55		inferior conj	6002 Feb 13 15:51	25° $\approx$ 00'53	2°24'05
morning max el	6001 Mar 23 03:56	9° $\mathcal{H}$ 06'08	24°12'50	minimum elong	6002 Feb 13 13:29	25° $\approx$ 09'06	2°23'25
desc. node	6001 Mar 26 16:33	12° $\mathcal{H}$ 56'13		min. Earth dist.	6002 Feb 13 17:48	24° $\approx$ 54'06	0.68135 AU
	6001 Apr 08 14:56	0° $\mathcal{Y}$		morning rise	6002 Feb 18 18:58	18° $\approx$ 49'23	
morning set	6001 Apr 27 21:46	0° $\mathcal{B}$ 36'33		direct	6002 Feb 23 17:40	16° $\approx$ 41'56	
	6001 Apr 27 13:19	0° $\mathcal{B}$		morning max el	6002 Mar 05 13:49	22° $\approx$ 30'51	22°43'23
max. Earth dist.	6001 May 01 14:10	7° $\mathcal{B}$ 06'34	1.37975 AU		6002 Mar 12 02:10	0° $\mathcal{H}$	
				desc. node	6002 Mar 13 13:35	1° $\mathcal{H}$ 53'21	

	6002 Apr 01 23:07	0°♿		max. Earth dist.	6003 Mar 26 11:59	1°♿17'17	1.42273 AU
morning set	6002 Apr 08 18:12	10°♿54'58					
max. Earth dist.	6002 Apr 13 10:04	18°♿44'06	1.40192 AU	superior conj	6003 Apr 02 20:51	13°♿40'42	-2°05'44
	6002 Apr 19 20:18	0°♿		minimum elong	6003 Apr 03 00:14	13°♿55'14	2°05'36
					6003 Apr 12 02:24	0°♿	
superior conj	6002 Apr 21 04:59	2°♿27'41	-1°48'23	evening rise	6003 Apr 14 03:46	3°♿43'24	
minimum elong	6002 Apr 21 10:12	2°♿51'22	1°47'53	asc. node	6003 Apr 21 12:51	16°♿51'46	
evening rise	6002 May 01 02:37	20°♿58'44		evening max el	6003 Apr 30 16:04	29°♿46'46	18°07'56
asc. node	6002 May 04 15:49	27°♿39'49			6003 Apr 30 21:31	0°♿	
	6002 May 05 22:15	0°♿		retrograde	6003 May 07 09:36	3°♿12'05	
evening max el	6002 May 17 05:38	16°♿51'37	18°25'55	evening set	6003 May 09 23:12	2°♿42'33	
retrograde	6002 May 24 17:33	20°♿34'58			6003 May 14 06:26	30°♿♿	
evening set	6002 May 27 00:09	20°♿15'23		inferior conj	6003 May 16 16:56	27°♿48'42	2°42'45
inferior conj	6002 Jun 03 11:17	15°♿42'15	1°41'34	minimum elong	6003 May 16 20:05	27°♿41'18	2°42'01
minimum elong	6002 Jun 03 14:24	15°♿35'59	1°40'34	min. Earth dist.	6003 May 19 23:29	24°♿45'44	0.60540 AU
min. Earth dist.	6002 Jun 06 21:15	12°♿58'09	0.58341 AU	morning rise	6003 May 23 14:36	21°♿56'41	
desc. node	6002 Jun 09 12:51	11°♿06'50		desc. node	6003 May 27 09:52	20°♿12'01	
morning rise	6002 Jun 11 01:26	10°♿14'42		direct	6003 May 30 04:57	19°♿49'20	
direct	6002 Jun 17 02:00	8°♿40'17		morning max el	6003 Jun 13 12:17	27°♿45'09	27°45'53
morning max el	6002 Jul 01 11:15	16°♿22'34	27°02'24		6003 Jun 15 16:10	0°♿	
	6002 Jul 12 14:56	0°♿			6003 Jul 06 08:10	0°♿	
	6002 Jul 29 18:16	0°♿		morning set	6003 Jul 15 21:48	18°♿26'45	
morning set	6002 Jul 31 16:10	3°♿58'32		asc. node	6003 Jul 18 12:08	23°♿54'43	
asc. node	6002 Jul 31 15:05	3°♿52'47			6003 Jul 21 07:40	0°♿	
				max. Earth dist.	6003 Jul 22 00:58	1°♿34'46	1.31949 AU
superior conj	6002 Aug 07 16:39	19°♿15'02	1°07'35				
minimum elong	6002 Aug 07 14:23	19°♿02'28	1°07'11	superior conj	6003 Jul 23 03:50	4°♿02'27	0°46'42
max. Earth dist.	6002 Aug 07 14:25	19°♿02'36	1.31874 AU	minimum elong	6003 Jul 23 01:57	3°♿52'04	0°46'19
	6002 Aug 12 14:04	0°♿		evening rise	6003 Jul 29 22:48	18°♿53'19	
evening rise	6002 Aug 14 12:24	4°♿07'58			6003 Aug 04 08:47	0°♿	
	6002 Aug 28 05:55	0°♿		desc. node	6003 Aug 23 09:08	29°♿17'19	
desc. node	6002 Sep 05 12:08	12°♿06'46			6003 Aug 24 01:01	0°♿	
evening max el	6002 Sep 13 04:58	20°♿48'51	26°36'23	evening max el	6003 Aug 25 23:17	1°♿56'27	25°23'25
retrograde	6002 Sep 27 03:06	27°♿56'50		retrograde	6003 Sep 08 21:29	8°♿59'50	
evening set	6002 Oct 03 21:43	26°♿01'47		evening set	6003 Sep 14 18:39	7°♿39'57	
min. Earth dist.	6002 Oct 07 18:43	23°♿26'19	0.59806 AU	min. Earth dist.	6003 Sep 19 10:58	5°♿00'50	0.57775 AU
inferior conj	6002 Oct 11 00:09	20°♿53'02	-4°38'25	inferior conj	6003 Sep 22 12:16	2°♿55'00	-5°15'56
minimum elong	6002 Oct 11 06:28	20°♿40'29	4°37'04	minimum elong	6003 Sep 22 15:34	2°♿49'18	5°15'39
morning rise	6002 Oct 18 17:20	16°♿14'22			6003 Sep 27 04:11	30°♿♿	
direct	6002 Oct 21 00:46	15°♿54'54		morning rise	6003 Sep 30 14:46	28°♿39'41	
asc. node	6002 Oct 27 14:20	18°♿41'19		direct	6003 Oct 03 02:16	28°♿21'05	
morning max el	6002 Oct 28 16:07	19°♿39'40	18°13'47		6003 Oct 08 14:35	0°♿	
	6002 Nov 05 07:40	0°♿		morning max el	6003 Oct 11 19:34	2°♿29'54	18°56'07
morning set	6002 Nov 13 11:44	14°♿48'50		asc. node	6003 Oct 14 11:23	5°♿23'24	
	6002 Nov 21 14:18	0°♿		morning set	6003 Oct 28 09:26	29°♿04'00	
					6003 Oct 28 20:48	0°♿	
superior conj	6002 Nov 22 21:30	2°♿22'10	1°05'30				
minimum elong	6002 Nov 23 01:18	2°♿39'21	1°05'02	superior conj	6003 Nov 05 19:20	15°♿31'07	1°26'48
max. Earth dist.	6002 Nov 30 12:29	15°♿45'06	1.41159 AU	minimum elong	6003 Nov 05 22:21	15°♿45'29	1°26'33
desc. node	6002 Dec 02 11:21	19°♿02'24		max. Earth dist.	6003 Nov 12 18:16	28°♿22'31	1.39046 AU
evening rise	6002 Dec 05 08:43	23°♿48'20			6003 Nov 13 16:13	0°♿	
	6002 Dec 09 05:25	0°♿		evening rise	6003 Nov 16 14:59	5°♿07'57	
	6002 Dec 29 20:20	0°♿		desc. node	6003 Nov 19 08:23	9°♿44'15	
evening max el	6003 Jan 08 09:22	11°♿16'52	23°08'29		6003 Dec 02 07:37	0°♿	
retrograde	6003 Jan 18 17:02	17°♿23'37		evening max el	6003 Dec 21 22:44	24°♿59'07	24°27'52
evening set	6003 Jan 23 14:40	15°♿22'19			6003 Dec 28 03:13	0°♿	
asc. node	6003 Jan 23 13:34	15°♿24'35		retrograde	6004 Jan 02 08:23	1°♿39'25	
min. Earth dist.	6003 Jan 28 14:30	9°♿30'30	0.68173 AU		6004 Jan 07 00:21	30°♿♿	
inferior conj	6003 Jan 29 00:04	8°♿57'32	1°44'06	evening set	6004 Jan 07 18:57	29°♿23'18	
minimum elong	6003 Jan 28 22:00	9°♿04'39	1°43'23	asc. node	6004 Jan 10 10:38	26°♿38'04	
morning rise	6003 Feb 03 05:16	2°♿50'28		min. Earth dist.	6004 Jan 12 10:24	24°♿05'23	0.67834 AU
direct	6003 Feb 07 13:40	1°♿05'53		inferior conj	6004 Jan 13 07:04	22°♿56'13	0°56'45
morning max el	6003 Feb 16 04:41	6°♿05'36	21°18'58	minimum elong	6004 Jan 13 05:46	23°♿00'35	0°56'15
desc. node	6003 Feb 28 10:37	21°♿26'34		morning rise	6004 Jan 18 16:43	16°♿55'16	
	6003 Mar 06 09:04	0°♿		direct	6004 Jan 22 11:48	15°♿32'55	
morning set	6003 Mar 19 10:34	19°♿55'38		morning max el	6004 Jan 30 03:07	19°♿52'17	20°05'30
	6003 Mar 25 17:07	0°♿			6004 Feb 07 09:34	0°♿	



desc. node	6004 Feb 15 07:39	11° $\approx$ 25'29			6005 Jan 05 21:20	0° $\approx$	
morning set	6004 Feb 26 08:17	28° $\approx$ 09'46		morning max el	6005 Jan 12 09:23	3° $\approx$ 49'30	19°06'29
	6004 Feb 27 12:48	0° $\approx$		greatest brilliancy	6005 Jan 26 06:49	22° $\approx$ 37'47	-0.8m
max. Earth dist.	6004 Mar 07 21:13	14° $\approx$ 41'52	1.43947 AU		6005 Jan 31 01:58	0° $\approx$	
				desc. node	6005 Feb 01 04:41	1° $\approx$ 43'20	
superior conj	6004 Mar 13 11:46	23° $\approx$ 46'00	-2°09'05	morning set	6005 Feb 04 11:04	6° $\approx$ 47'23	
minimum elong	6004 Mar 13 09:52	23° $\approx$ 38'12	2°09'03	max. Earth dist.	6005 Feb 18 12:14	28° $\approx$ 43'41	1.45022 AU
	6004 Mar 17 06:19	0° $\approx$			6005 Feb 19 07:38	0° $\approx$	
evening rise	6004 Mar 26 11:05	15° $\approx$ 37'49					
	6004 Apr 03 21:14	0° $\approx$		superior conj	6005 Feb 21 03:04	2° $\approx$ 51'27	-1°53'22
asc. node	6004 Apr 07 09:54	5° $\approx$ 35'15		minimum elong	6005 Feb 20 18:58	2° $\approx$ 19'27	1°52'48
evening max el	6004 Apr 13 04:55	13° $\approx$ 00'45	18°09'14	evening rise	6005 Mar 07 20:27	26° $\approx$ 35'12	
retrograde	6004 Apr 19 15:00	16° $\approx$ 23'01			6005 Mar 09 22:19	0° $\approx$	
evening set	6004 Apr 22 11:09	15° $\approx$ 41'50		asc. node	6005 Mar 25 06:56	23° $\approx$ 41'31	
inferior conj	6004 Apr 28 15:31	10° $\approx$ 28'36	3°16'55	evening max el	6005 Mar 27 17:20	26° $\approx$ 26'39	18°29'08
minimum elong	6004 Apr 28 17:23	10° $\approx$ 23'36	3°16'39	retrograde	6005 Apr 03 05:18	29° $\approx$ 59'04	
min. Earth dist.	6004 May 01 10:29	7° $\approx$ 30'45	0.62707 AU	evening set	6005 Apr 06 08:01	29° $\approx$ 05'04	
morning rise	6004 May 04 22:09	4° $\approx$ 22'13		inferior conj	6005 Apr 12 02:53	23° $\approx$ 34'00	3°29'46
direct	6004 May 11 17:55	1° $\approx$ 48'41		minimum elong	6005 Apr 12 03:12	23° $\approx$ 33'04	3°29'44
desc. node	6004 May 13 06:55	1° $\approx$ 55'55		min. Earth dist.	6005 Apr 14 06:52	21° $\approx$ 00'45	0.64622 AU
morning max el	6004 May 25 18:59	9° $\approx$ 50'10	27°51'25	morning rise	6005 Apr 17 21:37	17° $\approx$ 20'52	
	6004 Jun 10 11:42	0° $\approx$		direct	6005 Apr 24 15:06	14° $\approx$ 33'20	
	6004 Jun 27 14:39	0° $\approx$		desc. node	6005 Apr 30 03:57	16° $\approx$ 07'20	
morning set	6004 Jun 28 21:34	2° $\approx$ 34'49		morning max el	6005 May 08 04:36	22° $\approx$ 29'40	27°21'14
asc. node	6004 Jul 04 09:11	14° $\approx$ 01'02			6005 May 14 19:07	0° $\approx$	
max. Earth dist.	6004 Jul 04 07:17	13° $\approx$ 50'51	1.32459 AU		6005 Jun 03 17:34	0° $\approx$	
				morning set	6005 Jun 12 12:48	16° $\approx$ 14'52	
superior conj	6004 Jul 06 12:35	18° $\approx$ 38'27	0°22'03	max. Earth dist.	6005 Jun 17 05:22	25° $\approx$ 14'00	1.33432 AU
minimum elong	6004 Jul 06 11:34	18° $\approx$ 32'54	0°21'49		6005 Jun 19 07:20	0° $\approx$	
	6004 Jul 11 17:47	0° $\approx$					
evening rise	6004 Jul 13 10:34	3° $\approx$ 03'02		superior conj	6005 Jun 20 16:57	2° $\approx$ 57'17	-0°05'43
	6004 Jul 27 13:55	0° $\approx$		minimum elong	6005 Jun 20 17:14	2° $\approx$ 58'51	0°05'41
evening max el	6004 Aug 06 11:50	12° $\approx$ 25'12	23°50'16	behind sun begin	6005 Jun 20 12:04	2° $\approx$ 31'26	
desc. node	6004 Aug 09 06:10	14° $\approx$ 51'07		behind sun end	6005 Jun 20 22:25	3° $\approx$ 26'17	
retrograde	6004 Aug 20 04:25	19° $\approx$ 17'51		asc. node	6005 Jun 21 06:13	4° $\approx$ 07'44	
evening set	6004 Aug 24 15:34	18° $\approx$ 33'56		evening rise	6005 Jun 27 21:47	18° $\approx$ 19'17	
min. Earth dist.	6004 Aug 30 22:04	15° $\approx$ 32'35	0.56051 AU		6005 Jul 03 16:04	0° $\approx$	
inferior conj	6004 Sep 02 04:09	14° $\approx$ 10'39	-5°18'10	evening max el	6005 Jul 19 01:56	22° $\approx$ 45'07	22°12'38
minimum elong	6004 Sep 02 01:08	14° $\approx$ 15'14	5°17'57	desc. node	6005 Jul 27 03:12	28° $\approx$ 14'40	
morning rise	6004 Sep 10 13:08	10° $\approx$ 14'36		retrograde	6005 Jul 31 23:04	29° $\approx$ 08'58	
direct	6004 Sep 13 08:04	9° $\approx$ 54'54		evening set	6005 Aug 03 22:37	28° $\approx$ 49'18	
morning max el	6004 Sep 23 12:05	14° $\approx$ 39'25	20°00'29	min. Earth dist.	6005 Aug 12 07:51	25° $\approx$ 11'48	0.54979 AU
asc. node	6004 Sep 30 08:27	23° $\approx$ 05'12		inferior conj	6005 Aug 13 03:12	24° $\approx$ 44'33	-4°29'49
	6004 Oct 04 12:46	0° $\approx$		minimum elong	6005 Aug 12 18:41	24° $\approx$ 56'33	4°27'55
morning set	6004 Oct 11 13:59	13° $\approx$ 38'15		morning rise	6005 Aug 21 16:27	20° $\approx$ 55'02	
				direct	6005 Aug 24 21:51	20° $\approx$ 31'44	
superior conj	6004 Oct 19 07:27	29° $\approx$ 21'56	1°38'50	morning max el	6005 Sep 05 16:10	26° $\approx$ 01'58	21°25'47
minimum elong	6004 Oct 19 09:02	29° $\approx$ 29'50	1°38'47		6005 Sep 09 09:23	0° $\approx$	
	6004 Oct 19 15:05	0° $\approx$		asc. node	6005 Sep 17 05:30	11° $\approx$ 32'32	
max. Earth dist.	6004 Oct 24 23:49	10° $\approx$ 25'58	1.36962 AU	morning set	6005 Sep 25 22:49	28° $\approx$ 23'54	
evening rise	6004 Oct 28 18:51	17° $\approx$ 26'41			6005 Sep 26 17:15	0° $\approx$	
desc. node	6004 Nov 05 05:25	0° $\approx$ 18'06					
	6004 Nov 05 01:02	0° $\approx$		superior conj	6005 Oct 03 05:35	13° $\approx$ 41'20	1°42'54
	6004 Nov 25 15:58	0° $\approx$		minimum elong	6005 Oct 03 05:41	13° $\approx$ 41'55	1°42'55
evening max el	6004 Dec 03 11:22	8° $\approx$ 43'49	25°40'43	max. Earth dist.	6005 Oct 07 10:44	22° $\approx$ 18'04	1.35127 AU
retrograde	6004 Dec 15 19:12	15° $\approx$ 47'43			6005 Oct 11 09:18	0° $\approx$	
evening set	6004 Dec 21 19:02	13° $\approx$ 19'06		evening rise	6005 Oct 11 16:27	0° $\approx$ 34'04	
min. Earth dist.	6004 Dec 26 03:17	8° $\approx$ 35'38	0.67137 AU	desc. node	6005 Oct 23 02:26	20° $\approx$ 38'25	
inferior conj	6004 Dec 27 11:03	6° $\approx$ 54'34	0°02'51		6005 Oct 29 02:59	0° $\approx$	
minimum elong	6004 Dec 27 10:58	6° $\approx$ 54'49	0°02'50	evening max el	6005 Nov 16 00:18	22° $\approx$ 25'35	26°39'41
transit middle	6004 Dec 27 10:58	6° $\approx$ 54'49	0°02'50	retrograde	6005 Nov 29 00:42	29° $\approx$ 41'20	
transit begin	6004 Dec 27 08:12	7° $\approx$ 03'39		evening set	6005 Dec 05 12:58	27° $\approx$ 04'32	
transit end	6004 Dec 27 13:44	6° $\approx$ 45'59		min. Earth dist.	6005 Dec 09 14:46	22° $\approx$ 56'03	0.66087 AU
asc. node	6004 Dec 27 07:41	7° $\approx$ 05'17		inferior conj	6005 Dec 11 09:57	20° $\approx$ 47'55	-0°56'41
morning rise	6005 Jan 02 03:20	1° $\approx$ 01'38		minimum elong	6005 Dec 11 11:33	20° $\approx$ 43'12	0°55'59
direct	6005 Jan 05 10:38	29° $\approx$ 58'53		asc. node	6005 Dec 14 04:44	17° $\approx$ 40'30	
	6005 Jan 05 00:01	30° $\approx$ 00'00		morning rise	6005 Dec 17 10:56	15° $\approx$ 05'34	

direct	6005 Dec 20 08:28	14°♊18'47		asc. node	6006 Dec 01 01:46	29°♍16'01	
morning max el	6005 Dec 26 21:50	17°♊51'38	18°23'31	morning rise	6006 Dec 01 12:56	29°♍02'38	
	6006 Jan 05 01:34	0°♊		direct	6006 Dec 04 02:53	28°♍27'57	
morning set	6006 Jan 15 15:06	16°♊44'07			6006 Dec 08 08:58	0°♊	
desc. node	6006 Jan 19 01:41	22°♊14'12		morning max el	6006 Dec 10 13:59	1°♊52'51	17°57'27
	6006 Jan 23 22:56	0°♊		morning set	6006 Dec 28 00:40	28°♊08'43	
					6006 Dec 29 03:16	0°♊	
superior conj	6006 Jan 31 06:32	11°♊31'18	-1°18'46	desc. node	6007 Jan 05 22:41	12°♊54'05	
minimum elong	6006 Jan 30 21:35	10°♊56'10	1°17'43				
max. Earth dist.	6006 Feb 01 06:51	13°♊06'37	1.45385 AU	superior conj	6007 Jan 10 18:13	20°♊40'26	-0°33'26
	6006 Feb 12 01:36	0°♊		minimum elong	6007 Jan 10 14:13	20°♊24'24	0°32'50
evening rise	6006 Feb 16 06:28	6°♊36'24		max. Earth dist.	6007 Jan 15 02:30	27°♊34'38	1.45005 AU
greatest brilliancy	6006 Feb 26 13:27	22°♊45'09	-0.8m		6007 Jan 16 15:25	0°♊	
	6006 Mar 03 08:34	0°♊		evening rise	6007 Jan 26 22:23	15°♊59'06	
evening max el	6006 Mar 11 02:52	9°♊58'42	19°06'41		6007 Feb 05 02:41	0°♊	
asc. node	6006 Mar 12 03:58	10°♊59'12		greatest brilliancy	6007 Feb 10 09:47	7°♊54'29	-0.6m
retrograde	6006 Mar 18 00:50	13°♊52'56		evening max el	6007 Feb 22 07:43	23°♊32'55	20°00'05
evening set	6006 Mar 21 10:43	12°♊45'14		asc. node	6007 Feb 27 01:00	27°♊14'26	
inferior conj	6006 Mar 26 23:24	6°♊57'55	3°26'17	retrograde	6007 Mar 01 22:47	27°♊58'49	
minimum elong	6006 Mar 26 22:24	7°♊01'05	3°26'12	evening set	6007 Mar 05 16:52	26°♊36'41	
min. Earth dist.	6006 Mar 28 11:53	5°♊01'33	0.66152 AU	inferior conj	6007 Mar 11 02:03	20°♊35'00	3°10'03
morning rise	6006 Apr 01 09:42	0°♊42'35		minimum elong	6007 Mar 11 00:09	20°♊41'21	3°09'45
	6006 Apr 02 06:11	30°♋		min. Earth dist.	6007 Mar 11 23:59	19°♋21'12	0.67255 AU
direct	6006 Apr 07 18:54	27°♋54'28		morning rise	6007 Mar 16 07:14	14°♋19'56	
	6006 Apr 13 23:48	0°♊		direct	6007 Mar 22 04:15	11°♋42'24	
desc. node	6006 Apr 17 00:58	2°♊13'45		morning max el	6007 Apr 02 23:37	18°♋46'07	25°03'17
morning max el	6006 Apr 20 14:34	5°♊31'49	26°22'11	desc. node	6007 Apr 03 21:58	19°♋43'53	
	6006 May 09 09:19	0°♋			6007 Apr 12 11:25	0°♊	
morning set	6006 May 26 15:59	29°♋16'51			6007 May 02 11:16	0°♋	
	6006 May 27 01:10	0°♋		morning set	6007 May 09 02:21	11°♋26'37	
max. Earth dist.	6006 May 30 16:38	7°♋00'18	1.34879 AU	max. Earth dist.	6007 May 12 17:35	18°♋03'37	1.36756 AU
					6007 May 18 23:27	0°♋	
superior conj	6006 Jun 04 14:33	16°♋52'18	-0°35'31				
minimum elong	6006 Jun 04 16:31	17°♋02'25	0°35'09	superior conj	6007 May 19 02:22	0°♋14'18	-1°05'51
asc. node	6006 Jun 08 03:14	24°♋10'58		minimum elong	6007 May 19 06:08	0°♋32'49	1°05'15
	6006 Jun 10 22:06	0°♋		asc. node	6007 May 26 00:15	14°♋05'53	
evening rise	6006 Jun 12 06:31	2°♋48'16		evening rise	6007 May 27 10:23	16°♋58'07	
	6006 Jun 27 22:08	0°♋			6007 Jun 03 04:12	0°♋	
evening max el	6006 Jul 01 01:30	3°♋29'13	20°44'48	evening max el	6007 Jun 13 13:36	14°♋53'22	19°34'48
retrograde	6006 Jul 12 11:15	9°♋05'53		retrograde	6007 Jun 23 05:57	19°♋38'09	
desc. node	6006 Jul 14 00:13	9°♋00'07		evening set	6007 Jun 25 03:39	19°♋27'56	
evening set	6006 Jul 14 13:26	8°♋55'20		desc. node	6007 Jun 30 21:14	17°♋13'13	
inferior conj	6006 Jul 23 20:12	4°♋58'27	-2°52'51	inferior conj	6007 Jul 03 21:39	15°♋23'24	-0°54'30
minimum elong	6006 Jul 23 12:26	5°♋09'32	2°50'15	minimum elong	6007 Jul 03 19:11	15°♋27'18	0°53'36
min. Earth dist.	6006 Jul 24 18:25	4°♋26'46	0.54812 AU	min. Earth dist.	6007 Jul 06 07:11	13°♋52'36	0.55598 AU
morning rise	6006 Aug 01 11:09	0°♋56'27		morning rise	6007 Jul 12 08:19	10°♋50'55	
direct	6006 Aug 05 07:04	0°♋24'58		direct	6007 Jul 16 23:35	10°♋02'56	
morning max el	6006 Aug 18 09:57	6°♋43'12	23°06'21	morning max el	6007 Jul 30 23:17	17°♋02'53	24°50'25
	6006 Sep 03 19:12	0°♋			6007 Aug 10 12:55	0°♋	
asc. node	6006 Sep 04 02:32	0°♋34'25		asc. node	6007 Aug 21 23:32	20°♋01'18	
morning set	6006 Sep 10 09:58	13°♋15'25		morning set	6007 Aug 25 21:41	28°♋07'06	
					6007 Aug 26 18:51	0°♋	
superior conj	6006 Sep 17 10:30	28°♋19'55	1°40'09				
minimum elong	6006 Sep 17 09:25	28°♋14'03	1°40'05	superior conj	6007 Sep 01 19:41	13°♋09'10	1°31'30
	6006 Sep 18 05:14	0°♋		minimum elong	6007 Sep 01 17:47	12°♋58'45	1°31'18
max. Earth dist.	6006 Sep 20 06:24	4°♋20'15	1.33669 AU	max. Earth dist.	6007 Sep 03 10:07	16°♋38'38	1.32631 AU
evening rise	6006 Sep 25 03:42	14°♋19'14		evening rise	6007 Sep 09 00:52	28°♋31'29	
	6006 Oct 03 13:32	0°♋			6007 Sep 09 18:14	0°♋	
desc. node	6006 Oct 09 23:27	10°♋38'48		desc. node	6007 Sep 26 20:29	0°♋10'24	
	6006 Oct 23 23:52	0°♋			6007 Sep 26 17:43	0°♋	
evening max el	6006 Oct 29 13:01	5°♋54'51	27°17'20	evening max el	6007 Oct 11 23:31	18°♋58'02	27°27'10
retrograde	6006 Nov 12 00:03	13°♋12'57		retrograde	6007 Oct 25 16:49	26°♋13'40	
evening set	6006 Nov 18 22:28	10°♋34'27		evening set	6007 Nov 01 20:35	23°♋42'40	
min. Earth dist.	6006 Nov 22 18:30	7°♋00'27	0.64694 AU	min. Earth dist.	6007 Nov 05 12:28	20°♋39'32	0.62972 AU
inferior conj	6006 Nov 25 01:31	4°♋31'20	-2°00'20	inferior conj	6007 Nov 08 06:58	17°♋57'58	-3°05'29
minimum elong	6006 Nov 25 05:04	4°♋21'41	1°58'52	minimum elong	6007 Nov 08 12:26	17°♋44'38	3°03'32
	6006 Nov 29 20:50	30°♋		morning rise	6007 Nov 15 06:00	12°♋46'28	

direct	6007 Nov 17 14:55	12° $\mathbb{M}$ 20'15		min. Earth dist.	6008 Oct 17 19:45	3° $\mathbb{M}$ 40'40	0.60997 AU
asc. node	6007 Nov 17 22:47	12° $\mathbb{M}$ 20'46		inferior conj	6008 Oct 20 23:04	0° $\mathbb{M}$ 59'19	-4°07'23
morning max el	6007 Nov 24 06:55	15° $\mathbb{M}$ 46'01	17°49'01	minimum elong	6008 Oct 21 05:38	0° $\mathbb{M}$ 45'12	4°05'35
	6007 Dec 04 06:36	0° $\mathbb{A}$			6008 Oct 22 02:59	30° $\mathbb{R}$ $\mathbb{A}$	
morning set	6007 Dec 10 10:40	10° $\mathbb{A}$ 44'03		morning rise	6008 Oct 28 09:57	26° $\mathbb{A}$ 08'12	
	6007 Dec 21 14:55	0° $\mathbb{B}$		direct	6008 Oct 30 16:47	25° $\mathbb{A}$ 47'13	
				asc. node	6008 Nov 03 19:50	26° $\mathbb{A}$ 58'49	
superior conj	6007 Dec 22 05:07	0° $\mathbb{B}$ 59'18	0°11'27	morning max el	6008 Nov 06 21:22	29° $\mathbb{A}$ 22'32	17°59'05
minimum elong	6007 Dec 22 06:16	1° $\mathbb{B}$ 04'05	0°11'19		6008 Nov 07 12:08	0° $\mathbb{M}$	
behind sun begin	6007 Dec 21 23:38	0° $\mathbb{B}$ 36'24		morning set	6008 Nov 22 14:32	24° $\mathbb{M}$ 09'35	
behind sun end	6007 Dec 22 12:54	1° $\mathbb{B}$ 31'43			6008 Nov 25 18:38	0° $\mathbb{A}$	
desc. node	6007 Dec 23 19:43	3° $\mathbb{B}$ 39'30					
max. Earth dist.	6007 Dec 28 19:52	11° $\mathbb{B}$ 48'53	1.43925 AU	superior conj	6008 Dec 02 18:09	12° $\mathbb{A}$ 33'46	0°48'38
evening rise	6008 Jan 06 09:05	25° $\mathbb{B}$ 16'40		minimum elong	6008 Dec 02 21:43	12° $\mathbb{A}$ 49'23	0°48'10
	6008 Jan 09 10:55	0° $\mathbb{A}$		desc. node	6008 Dec 09 16:45	24° $\mathbb{A}$ 26'25	
	6008 Jan 30 05:27	0° $\mathbb{H}$		max. Earth dist.	6008 Dec 10 08:20	25° $\mathbb{A}$ 31'09	1.42278 AU
evening max el	6008 Feb 05 07:04	7° $\mathbb{H}$ 08'30	21°06'39		6008 Dec 13 01:52	0° $\mathbb{B}$	
retrograde	6008 Feb 13 20:59	12° $\mathbb{H}$ 13'01		evening rise	6008 Dec 16 05:56	5° $\mathbb{B}$ 05'29	
asc. node	6008 Feb 13 22:01	12° $\mathbb{H}$ 13'01			6009 Jan 01 18:26	0° $\mathbb{A}$	
evening set	6008 Feb 18 00:34	10° $\mathbb{H}$ 35'55		evening max el	6009 Jan 18 01:16	20° $\mathbb{A}$ 45'39	22°22'37
inferior conj	6008 Feb 23 08:28	4° $\mathbb{H}$ 22'26	2°43'29	retrograde	6009 Jan 27 17:37	26° $\mathbb{A}$ 30'58	
minimum elong	6008 Feb 23 06:09	4° $\mathbb{H}$ 30'28	2°42'55	asc. node	6009 Jan 30 19:04	25° $\mathbb{A}$ 42'11	
min. Earth dist.	6008 Feb 23 17:18	3° $\mathbb{H}$ 51'52	0.67929 AU	evening set	6009 Feb 01 08:10	24° $\mathbb{A}$ 38'35	
	6008 Feb 26 16:38	30° $\mathbb{R}$ $\mathbb{A}$		inferior conj	6009 Feb 06 16:35	18° $\mathbb{A}$ 16'40	2°08'05
morning rise	6008 Feb 28 11:33	28° $\mathbb{A}$ 09'12		minimum elong	6009 Feb 06 14:17	18° $\mathbb{A}$ 24'39	2°07'21
direct	6008 Mar 04 18:28	25° $\mathbb{A}$ 49'43		min. Earth dist.	6009 Feb 06 13:31	18° $\mathbb{A}$ 27'20	0.68194 AU
	6008 Mar 13 02:29	0° $\mathbb{H}$		morning rise	6009 Feb 11 20:16	12° $\mathbb{A}$ 06'43	
morning max el	6008 Mar 15 08:35	2° $\mathbb{H}$ 07'59	23°34'48	direct	6009 Feb 16 12:42	10° $\mathbb{A}$ 09'04	
desc. node	6008 Mar 20 18:59	8° $\mathbb{H}$ 14'37		morning max el	6009 Feb 25 20:15	15° $\mathbb{A}$ 36'58	22°06'24
	6008 Apr 05 12:26	0° $\mathbb{Y}$		desc. node	6009 Mar 07 16:01	27° $\mathbb{A}$ 28'37	
morning set	6008 Apr 19 14:17	22° $\mathbb{Y}$ 29'58			6009 Mar 09 12:25	0° $\mathbb{H}$	
max. Earth dist.	6008 Apr 23 13:17	29° $\mathbb{Y}$ 19'54	1.38914 AU		6009 Mar 29 13:09	0° $\mathbb{Y}$	
	6008 Apr 23 22:24	0° $\mathbb{B}$		morning set	6009 Mar 30 22:35	2° $\mathbb{Y}$ 14'19	
				max. Earth dist.	6009 Apr 05 10:48	11° $\mathbb{Y}$ 18'06	1.41107 AU
superior conj	6008 May 01 00:44	12° $\mathbb{B}$ 54'25	-1°34'16				
minimum elong	6008 May 01 05:49	13° $\mathbb{B}$ 18'12	1°33'39	superior conj	6009 Apr 13 05:05	24° $\mathbb{Y}$ 41'52	-1°57'06
	6008 May 09 22:07	0° $\mathbb{H}$		minimum elong	6009 Apr 13 09:55	25° $\mathbb{Y}$ 03'17	1°56'45
evening rise	6008 May 10 06:43	0° $\mathbb{H}$ 41'43			6009 Apr 16 04:02	0° $\mathbb{B}$	
asc. node	6008 May 11 21:16	3° $\mathbb{H}$ 48'20		evening rise	6009 Apr 23 16:00	13° $\mathbb{B}$ 50'04	
evening max el	6008 May 26 13:02	26° $\mathbb{H}$ 58'56	18°45'11	asc. node	6009 Apr 28 18:18	23° $\mathbb{B}$ 12'58	
	6008 May 30 14:45	0° $\mathbb{B}$			6009 May 02 16:35	0° $\mathbb{H}$	
retrograde	6008 Jun 03 17:16	1° $\mathbb{B}$ 00'41		evening max el	6009 May 09 20:30	9° $\mathbb{H}$ 38'36	18°15'54
evening set	6008 Jun 05 19:36	0° $\mathbb{B}$ 45'44		retrograde	6009 May 16 23:19	13° $\mathbb{H}$ 12'24	
	6008 Jun 08 00:48	30° $\mathbb{R}$ $\mathbb{H}$		evening set	6009 May 19 08:51	12° $\mathbb{H}$ 48'59	
inferior conj	6008 Jun 13 18:06	26° $\mathbb{H}$ 24'10	0°52'27	inferior conj	6009 May 26 12:10	8° $\mathbb{H}$ 07'19	2°11'10
minimum elong	6008 Jun 13 20:02	26° $\mathbb{H}$ 20'35	0°51'44	minimum elong	6009 May 26 15:32	8° $\mathbb{H}$ 00'02	2°10'11
desc. node	6008 Jun 16 18:14	24° $\mathbb{H}$ 11'39		min. Earth dist.	6009 May 29 22:11	5° $\mathbb{H}$ 11'45	0.59256 AU
min. Earth dist.	6008 Jun 16 23:54	24° $\mathbb{H}$ 01'39	0.57180 AU	morning rise	6009 Jun 02 19:14	2° $\mathbb{H}$ 27'45	
morning rise	6008 Jun 21 17:04	21° $\mathbb{H}$ 14'48		desc. node	6009 Jun 03 15:15	2° $\mathbb{H}$ 01'03	
direct	6008 Jun 27 06:04	19° $\mathbb{H}$ 59'30		direct	6009 Jun 09 02:39	0° $\mathbb{H}$ 38'41	
morning max el	6008 Jul 11 14:42	27° $\mathbb{H}$ 30'22	26°21'43	morning max el	6009 Jun 23 11:53	8° $\mathbb{H}$ 28'49	27°25'28
	6008 Jul 14 00:56	0° $\mathbb{B}$			6009 Jul 09 20:37	0° $\mathbb{B}$	
	6008 Aug 02 22:44	0° $\mathbb{Q}$		morning set	6009 Jul 24 16:26	27° $\mathbb{B}$ 31'03	
asc. node	6008 Aug 07 20:34	9° $\mathbb{Q}$ 46'20		asc. node	6009 Jul 25 17:37	29° $\mathbb{B}$ 43'45	
morning set	6008 Aug 09 08:24	12° $\mathbb{Q}$ 54'05			6009 Jul 25 20:41	0° $\mathbb{Q}$	
superior conj	6008 Aug 16 07:04	28° $\mathbb{Q}$ 02'43	1°17'40	superior conj	6009 Jul 31 18:52	12° $\mathbb{Q}$ 54'32	0°59'14
minimum elong	6008 Aug 16 04:48	27° $\mathbb{Q}$ 50'11	1°17'20	minimum elong	6009 Jul 31 16:42	12° $\mathbb{Q}$ 42'34	0°58'50
max. Earth dist.	6008 Aug 16 19:12	29° $\mathbb{Q}$ 09'43	1.32023 AU	max. Earth dist.	6009 Jul 31 06:11	11° $\mathbb{Q}$ 44'26	1.31843 AU
	6008 Aug 17 04:19	0° $\mathbb{H}$		evening rise	6009 Aug 07 13:47	27° $\mathbb{Q}$ 44'52	
evening rise	6008 Aug 23 05:02	13° $\mathbb{H}$ 02'28			6009 Aug 08 15:22	0° $\mathbb{H}$	
	6008 Aug 31 20:34	0° $\mathbb{B}$			6009 Aug 25 10:10	0° $\mathbb{B}$	
desc. node	6008 Sep 12 17:30	19° $\mathbb{B}$ 01'25		desc. node	6009 Aug 30 14:31	6° $\mathbb{B}$ 55'36	
	6008 Sep 21 19:39	0° $\mathbb{M}$		evening max el	6009 Sep 05 04:12	12° $\mathbb{B}$ 59'25	26°08'45
evening max el	6008 Sep 23 05:18	1° $\mathbb{M}$ 22'19	27°04'30	retrograde	6009 Sep 19 03:12	20° $\mathbb{B}$ 06'21	
retrograde	6008 Oct 07 02:21	8° $\mathbb{M}$ 33'51		evening set	6009 Sep 25 14:09	18° $\mathbb{B}$ 25'31	
evening set	6008 Oct 14 03:24	6° $\mathbb{M}$ 21'58		min. Earth dist.	6009 Sep 29 17:13	15° $\mathbb{B}$ 50'41	0.58919 AU

inferior conj	6009 Oct 02 22:24	13°♌26'39	-4°57'33	min. Earth dist.	6010 Sep 11 07:01	26°♍58'18	0.56981 AU
minimum elong	6009 Oct 03 03:53	13°♌16'21	4°56'40	inferior conj	6010 Sep 14 01:57	25°♍09'43	-5°22'19
morning rise	6009 Oct 10 19:54	8°♌58'00		minimum elong	6010 Sep 14 02:51	25°♍08'14	5°22'17
direct	6009 Oct 13 04:21	8°♌39'20		morning rise	6010 Sep 22 07:29	21°♍03'05	
morning max el	6009 Oct 21 05:54	12°♌33'24	18°29'05	direct	6010 Sep 24 21:45	20°♍44'13	
asc. node	6009 Oct 21 16:54	13°♌00'33		morning max el	6010 Oct 04 04:57	25°♍07'12	19°20'42
	6009 Nov 01 23:28	0°♌			6010 Oct 08 11:02	0°♌	
morning set	6009 Nov 06 06:58	8°♌10'37		asc. node	6010 Oct 08 13:57	0°♌09'50	
				morning set	6010 Oct 21 07:59	22°♌35'12	
					6010 Oct 25 00:45	0°♌	
superior conj	6009 Nov 15 05:36	25°♌13'01	1°15'43	superior conj	6010 Oct 29 10:05	8°♌41'19	1°32'57
minimum elong	6009 Nov 15 09:12	25°♌29'41	1°15'20	minimum elong	6010 Oct 29 12:31	8°♌53'12	1°32'47
	6009 Nov 17 20:12	0°♌		max. Earth dist.	6010 Nov 04 21:00	20°♌53'45	1.38151 AU
max. Earth dist.	6009 Nov 22 15:47	8°♌32'07	1.40275 AU	evening rise	6010 Nov 08 15:05	27°♌37'00	
evening rise	6009 Nov 26 23:13	15°♌50'52			6010 Nov 09 23:58	0°♌	
desc. node	6009 Nov 26 13:47	15°♌11'35		desc. node	6010 Nov 13 10:48	5°♌50'46	
	6009 Dec 05 19:41	0°♌			6010 Nov 29 06:58	0°♌	
	6009 Dec 27 13:40	0°♌		evening max el	6010 Dec 14 05:02	18°♌11'05	25°00'06
evening max el	6009 Dec 31 15:56	4°♌26'30	23°42'36	retrograde	6010 Dec 26 00:37	25°♌02'04	
retrograde	6010 Jan 11 11:13	10°♌48'49		evening set	6010 Dec 31 16:49	22°♌40'31	
evening set	6010 Jan 16 14:07	8°♌41'18		asc. node	6011 Jan 04 13:10	18°♌28'52	
asc. node	6010 Jan 17 16:07	7°♌40'43		min. Earth dist.	6011 Jan 05 05:13	17°♌37'05	0.67588 AU
min. Earth dist.	6010 Jan 21 10:18	3°♌03'33	0.68076 AU	inferior conj	6011 Jan 06 06:30	16°♌14'07	0°34'39
inferior conj	6010 Jan 22 00:32	2°♌14'56	1°24'53	minimum elong	6011 Jan 06 05:40	16°♌16'53	0°34'20
minimum elong	6010 Jan 21 22:44	2°♌21'05	1°24'13	morning rise	6011 Jan 11 18:42	10°♌16'12	
	6010 Jan 23 16:52	30°♌		direct	6011 Jan 15 08:39	9°♌02'23	
morning rise	6010 Jan 27 07:19	26°♌09'58		morning max el	6011 Jan 22 15:49	13°♌07'43	19°38'24
direct	6010 Jan 31 09:54	24°♌34'56		greatest brilliancy	6011 Feb 04 14:31	0°♌08'41	-0.7m
morning max el	6010 Feb 08 14:03	29°♌16'26	20°45'57		6011 Feb 04 12:10	0°♌	
	6010 Feb 09 07:05	0°♌		desc. node	6011 Feb 09 10:05	7°♌21'50	
desc. node	6010 Feb 22 13:04	17°♌13'54		morning set	6011 Feb 17 01:25	19°♌03'00	
	6010 Mar 03 03:58	0°♌			6011 Feb 24 02:39	0°♌	
morning set	6010 Mar 10 04:44	10°♌47'54		max. Earth dist.	6011 Mar 01 03:36	7°♌56'14	1.44492 AU
max. Earth dist.	6010 Mar 18 15:18	24°♌12'14	1.43051 AU				
	6010 Mar 22 04:18	0°♌					
superior conj	6010 Mar 25 10:40	5°♌26'38	-2°09'13	superior conj	6011 Mar 05 14:54	15°♌04'43	-2°04'54
minimum elong	6010 Mar 25 12:12	5°♌33'05	2°09'12	minimum elong	6011 Mar 05 10:07	14°♌45'29	2°04'43
evening rise	6010 Apr 06 10:04	26°♌14'00			6011 Mar 14 17:36	0°♌	
	6010 Apr 08 13:01	0°♌		evening rise	6011 Mar 19 08:27	7°♌44'53	
asc. node	6010 Apr 15 15:21	12°♌13'43			6011 Apr 02 00:17	0°♌	
evening max el	6010 Apr 23 08:25	22°♌43'01	18°06'14	asc. node	6011 Apr 02 12:24	0°♌42'55	
retrograde	6010 Apr 29 21:25	26°♌04'57		evening max el	6011 Apr 06 21:29	6°♌03'31	18°15'30
evening set	6010 May 02 13:55	25°♌30'34		retrograde	6011 Apr 13 07:06	9°♌28'18	
inferior conj	6010 May 09 01:28	20°♌28'32	3°00'13	evening set	6011 Apr 16 06:09	8°♌41'34	
minimum elong	6010 May 09 04:10	20°♌21'51	2°59'42	inferior conj	6011 Apr 22 06:00	3°♌20'27	3°24'37
min. Earth dist.	6010 May 12 03:55	17°♌24'51	0.61483 AU	minimum elong	6011 Apr 22 07:12	3°♌17'04	3°24'30
morning rise	6010 May 15 16:27	14°♌29'33		min. Earth dist.	6011 Apr 24 18:43	0°♌31'24	0.63566 AU
desc. node	6010 May 21 12:18	12°♌12'01			6011 Apr 25 06:30	30°♌	
direct	6010 May 22 10:23	12°♌09'30		morning rise	6011 Apr 28 07:11	27°♌10'43	
morning max el	6010 Jun 05 15:17	20°♌08'44	27°52'53	direct	6011 May 05 02:52	24°♌29'50	
	6010 Jun 14 01:47	0°♌		desc. node	6011 May 08 09:20	25°♌02'32	
	6010 Jul 02 19:06	0°♌			6011 May 16 07:55	0°♌	
morning set	6010 Jul 08 19:48	11°♌51'13		morning max el	6011 May 18 23:27	2°♌29'36	27°42'41
asc. node	6010 Jul 12 14:38	19°♌47'55			6011 Jun 08 09:43	0°♌	
max. Earth dist.	6010 Jul 14 15:14	24°♌10'18	1.32105 AU	morning set	6011 Jun 22 16:16	25°♌48'16	
					6011 Jun 24 18:07	0°♌	
superior conj	6010 Jul 16 05:14	27°♌37'52	0°36'41	max. Earth dist.	6011 Jun 27 18:37	6°♌16'46	1.32820 AU
minimum elong	6010 Jul 16 03:39	27°♌29'12	0°36'21	asc. node	6011 Jun 29 11:40	9°♌54'55	
	6010 Jul 17 07:07	0°♌					
evening rise	6010 Jul 23 00:58	12°♌31'08		superior conj	6011 Jun 30 12:21	12°♌07'20	0°10'38
	6010 Jul 31 19:55	0°♌		minimum elong	6011 Jun 30 11:50	12°♌04'33	0°10'29
desc. node	6010 Aug 17 11:33	23°♌29'07		behind sun begin	6011 Jun 30 07:47	11°♌42'48	
evening max el	6010 Aug 17 19:43	23°♌48'52	24°45'36	behind sun end	6011 Jun 30 15:53	12°♌26'20	
	6010 Aug 27 02:28	0°♌		evening rise	6011 Jul 07 12:45	27°♌15'31	
retrograde	6010 Aug 31 16:47	0°♌48'34			6011 Jul 08 19:56	0°♌	
	6010 Sep 05 08:02	30°♌			6011 Jul 26 12:34	0°♌	
evening set	6010 Sep 06 00:31	29°♌44'58		evening max el	6011 Jul 30 07:51	4°♌09'13	23°08'17

desc. node	6011 Aug 04 08:34	8° $\mathbb{M}$ 11'42		desc. node	6012 Jul 21 05:34	20° $\Omega$ 30'03	
retrograde	6011 Aug 12 17:42	10° $\mathbb{M}$ 51'38		retrograde	6012 Jul 23 08:42	20° $\Omega$ 40'51	
evening set	6011 Aug 16 13:15	10° $\mathbb{M}$ 19'50		evening set	6012 Jul 25 20:52	20° $\Omega$ 26'31	
min. Earth dist.	6011 Aug 23 16:46	7° $\mathbb{M}$ 04'57	0.55503 AU	inferior conj	6012 Aug 04 04:22	16° $\Omega$ 26'26	-3°53'27
inferior conj	6011 Aug 25 09:43	6° $\mathbb{M}$ 05'27	-5°04'17	minimum elong	6012 Aug 03 19:19	16° $\Omega$ 39'07	3°50'57
minimum elong	6011 Aug 25 03:52	6° $\mathbb{M}$ 13'58	5°03'30	min. Earth dist.	6012 Aug 04 02:24	16° $\Omega$ 29'11	0.54787 AU
morning rise	6011 Sep 02 20:45	2° $\mathbb{M}$ 14'23		morning rise	6012 Aug 12 18:52	12° $\Omega$ 34'28	
direct	6011 Sep 05 20:05	1° $\mathbb{M}$ 53'22		direct	6012 Aug 16 05:41	12° $\Omega$ 08'37	
morning max el	6011 Sep 16 16:00	6° $\mathbb{M}$ 55'53	20°34'26	morning max el	6012 Aug 28 15:14	17° $\Omega$ 59'09	22°07'27
asc. node	6011 Sep 25 10:59	18° $\mathbb{M}$ 12'02			6012 Sep 07 05:25	0° $\mathbb{M}$	
	6011 Oct 02 00:10	0° $\mathbb{L}$		asc. node	6012 Sep 11 08:00	6° $\mathbb{M}$ 54'57	
morning set	6011 Oct 05 14:36	7° $\mathbb{L}$ 14'58		morning set	6012 Sep 19 00:37	22° $\mathbb{M}$ 03'45	
					6012 Sep 22 18:30	0° $\mathbb{L}$	
superior conj	6011 Oct 13 02:52	22° $\mathbb{L}$ 45'15	1°41'28	superior conj	6012 Sep 26 04:13	7° $\mathbb{L}$ 14'01	1°42'31
minimum elong	6011 Oct 13 03:48	22° $\mathbb{L}$ 50'02	1°41'27	minimum elong	6012 Sep 26 03:47	7° $\mathbb{L}$ 11'41	1°42'30
	6011 Oct 16 17:37	0° $\mathbb{M}$		max. Earth dist.	6012 Sep 29 18:59	14° $\mathbb{L}$ 44'56	1.34447 AU
max. Earth dist.	6011 Oct 18 04:36	2° $\mathbb{M}$ 50'46	1.36145 AU	evening rise	6012 Oct 04 06:48	23° $\mathbb{L}$ 41'41	
evening rise	6011 Oct 22 02:57	10° $\mathbb{M}$ 17'11			6012 Oct 07 14:46	0° $\mathbb{M}$	
desc. node	6011 Oct 31 07:50	26° $\mathbb{M}$ 19'27		desc. node	6012 Oct 17 04:50	16° $\mathbb{M}$ 32'14	
	6011 Nov 02 14:22	0° $\mathbb{X}$			6012 Oct 26 04:59	0° $\mathbb{X}$	
	6011 Nov 24 20:02	0° $\mathbb{Z}$		evening max el	6012 Nov 08 06:34	15° $\mathbb{X}$ 32'53	26°58'41
evening max el	6011 Nov 26 17:48	1° $\mathbb{Z}$ 55'31	26°07'54	retrograde	6012 Nov 21 12:06	22° $\mathbb{X}$ 51'09	
retrograde	6011 Dec 09 09:04	9° $\mathbb{Z}$ 05'05		evening set	6012 Nov 28 05:14	20° $\mathbb{X}$ 12'18	
evening set	6011 Dec 15 14:31	6° $\mathbb{Z}$ 32'13		min. Earth dist.	6012 Dec 02 04:18	16° $\mathbb{X}$ 19'00	0.65534 AU
min. Earth dist.	6011 Dec 19 19:57	2° $\mathbb{Z}$ 03'52	0.66741 AU	inferior conj	6012 Dec 04 04:39	14° $\mathbb{X}$ 00'44	-1°23'18
inferior conj	6011 Dec 21 08:34	0° $\mathbb{Z}$ 10'39	-0°21'48	minimum elong	6012 Dec 04 07:03	13° $\mathbb{X}$ 53'51	1°22'15
minimum elong	6011 Dec 21 09:09	0° $\mathbb{Z}$ 08'51	0°21'31	asc. node	6012 Dec 08 07:15	9° $\mathbb{X}$ 48'06	
	6011 Dec 21 12:00	30° $\mathbb{R}$ $\mathbb{X}$		morning rise	6012 Dec 10 09:54	8° $\mathbb{X}$ 24'08	
asc. node	6011 Dec 22 10:13	28° $\mathbb{X}$ 52'08		direct	6012 Dec 13 03:52	7° $\mathbb{X}$ 43'05	
morning rise	6011 Dec 27 04:20	24° $\mathbb{X}$ 22'06		morning max el	6012 Dec 19 15:30	11° $\mathbb{X}$ 11'23	18°10'24
direct	6011 Dec 30 07:18	23° $\mathbb{X}$ 26'32			6013 Jan 01 21:04	0° $\mathbb{Z}$	
morning max el	6012 Jan 06 01:01	27° $\mathbb{X}$ 07'51	18°46'10	morning set	6013 Jan 07 06:24	8° $\mathbb{Z}$ 46'37	
	6012 Jan 08 15:06	0° $\mathbb{Z}$		desc. node	6013 Jan 13 04:07	18° $\mathbb{Z}$ 21'22	
desc. node	6012 Jan 27 07:06	27° $\mathbb{Z}$ 45'46			6013 Jan 20 11:12	0° $\approx$	
morning set	6012 Jan 27 13:26	28° $\mathbb{Z}$ 10'41		superior conj	6013 Jan 22 03:36	2° $\approx$ 39'29	-1°00'10
	6012 Jan 28 17:17	0° $\approx$		minimum elong	6013 Jan 21 20:21	2° $\approx$ 10'54	0°59'13
max. Earth dist.	6012 Feb 11 21:05	22° $\approx$ 11'17	1.45271 AU	max. Earth dist.	6013 Jan 24 16:25	6° $\approx$ 38'35	1.45312 AU
superior conj	6012 Feb 12 22:55	23° $\approx$ 52'39	-1°40'40	evening rise	6013 Feb 07 09:07	28° $\approx$ 00'10	
minimum elong	6012 Feb 12 13:32	23° $\approx$ 15'49	1°39'48		6013 Feb 08 15:57	0° $\mathbb{H}$	
	6012 Feb 16 20:16	0° $\mathbb{H}$		greatest brilliancy	6013 Feb 19 16:30	16° $\mathbb{H}$ 59'07	-0.7m
evening rise	6012 Feb 28 07:46	18° $\mathbb{H}$ 17'42			6013 Feb 28 22:57	0° $\mathbb{Y}$	
greatest brilliancy	6012 Mar 06 03:48	29° $\mathbb{H}$ 17'56	-0.9m	evening max el	6013 Mar 03 16:30	3° $\mathbb{Y}$ 05'16	19°27'29
	6012 Mar 06 14:19	0° $\mathbb{Y}$		asc. node	6013 Mar 06 06:28	5° $\mathbb{Y}$ 22'59	
asc. node	6012 Mar 19 09:26	18° $\mathbb{Y}$ 29'55		retrograde	6013 Mar 10 21:07	7° $\mathbb{Y}$ 12'21	
evening max el	6012 Mar 20 08:52	19° $\mathbb{Y}$ 32'09	18°42'59	evening set	6013 Mar 14 10:15	5° $\mathbb{Y}$ 58'43	
retrograde	6012 Mar 27 00:09	23° $\mathbb{Y}$ 12'41		inferior conj	6013 Mar 19 21:08	0° $\mathbb{Y}$ 04'52	3°20'47
evening set	6012 Mar 30 05:49	22° $\mathbb{Y}$ 12'51		minimum elong	6013 Mar 19 19:43	0° $\mathbb{Y}$ 09'33	3°20'37
inferior conj	6012 Apr 04 21:39	16° $\mathbb{Y}$ 34'21	3°30'00		6013 Mar 19 22:37	30° $\mathbb{R}$ $\mathbb{H}$	
minimum elong	6012 Apr 04 21:22	16° $\mathbb{Y}$ 35'12	3°30'00	min. Earth dist.	6013 Mar 21 03:18	28° $\mathbb{H}$ 26'08	0.66675 AU
min. Earth dist.	6012 Apr 06 18:51	14° $\mathbb{Y}$ 16'00	0.65322 AU	morning rise	6013 Mar 25 04:52	23° $\mathbb{H}$ 49'06	
morning rise	6012 Apr 10 12:22	10° $\mathbb{Y}$ 19'47		direct	6013 Mar 31 09:06	21° $\mathbb{H}$ 04'19	
direct	6012 Apr 17 02:46	7° $\mathbb{Y}$ 30'49		desc. node	6013 Apr 11 03:23	26° $\mathbb{H}$ 52'15	
desc. node	6012 Apr 24 06:21	10° $\mathbb{Y}$ 06'48		morning max el	6013 Apr 12 19:30	28° $\mathbb{H}$ 29'53	25°50'20
morning max el	6012 Apr 30 09:40	15° $\mathbb{Y}$ 20'44	26°59'12		6013 Apr 14 06:02	0° $\mathbb{Y}$	
	6012 May 12 09:56	0° $\mathbb{B}$			6013 May 06 04:19	0° $\mathbb{B}$	
	6012 May 31 04:04	0° $\mathbb{I}$		morning set	6013 May 18 23:29	21° $\mathbb{B}$ 54'39	
morning set	6012 Jun 05 02:49	9° $\mathbb{I}$ 13'05		max. Earth dist.	6013 May 22 18:59	29° $\mathbb{B}$ 03'49	1.35630 AU
max. Earth dist.	6012 Jun 09 12:32	17° $\mathbb{I}$ 54'08	1.33996 AU		6013 May 23 06:41	0° $\mathbb{I}$	
superior conj	6012 Jun 13 14:05	26° $\mathbb{I}$ 16'15	-0°18'11	superior conj	6013 May 28 07:53	9° $\mathbb{I}$ 57'49	-0°48'28
minimum elong	6012 Jun 13 15:03	26° $\mathbb{I}$ 21'21	0°18'01	minimum elong	6013 May 28 10:38	10° $\mathbb{I}$ 11'40	0°47'59
asc. node	6012 Jun 15 08:41	0° $\mathbb{O}$ 00'20		asc. node	6013 Jun 02 05:42	20° $\mathbb{I}$ 00'16	
	6012 Jun 15 08:37	0° $\mathbb{O}$		evening rise	6013 Jun 05 06:05	26° $\mathbb{I}$ 12'43	
evening rise	6012 Jun 20 23:08	11° $\mathbb{O}$ 51'26			6013 Jun 07 02:50	0° $\mathbb{O}$	
	6012 Jun 30 07:52	0° $\Omega$		evening max el	6013 Jun 23 05:44	25° $\mathbb{O}$ 34'37	20°12'36
evening max el	6012 Jul 11 00:58	14° $\Omega$ 34'45	21°33'19				

	6013 Jun 29 16:03	0°♎	evening rise	6014 May 20 07:09	10°♐12'33	
retrograde	6013 Jul 03 22:14	0°♎49'08	asc. node	6014 May 20 02:44	9°♐50'38	
evening set	6013 Jul 05 20:29	0°♎39'38		6014 May 31 04:19	0°♐	
desc. node	6013 Jul 08 02:35	0°♎06'05	evening max el	6014 Jun 05 23:11	7°♐18'04	19°11'14
	6013 Jul 08 09:46	30°♋♐	retrograde	6014 Jun 14 22:53	11°♐42'24	
inferior conj	6013 Jul 14 23:17	26°♐41'17 -2°03'07	evening set	6014 Jun 16 22:01	11°♐30'41	
minimum elong	6013 Jul 14 17:33	26°♐49'46 2°01'03	desc. node	6014 Jun 24 23:38	7°♐34'16	
min. Earth dist.	6013 Jul 16 14:07	25°♐43'53 0.55027 AU	inferior conj	6014 Jun 25 08:06	7°♐20'03	-0°06'19
morning rise	6013 Jul 23 13:14	22°♐27'32	minimum elong	6014 Jun 25 07:50	7°♐20'31	0°06'15
direct	6013 Jul 27 16:36	21°♐50'20	transit middle	6014 Jun 25 07:50	7°♐20'31	0°06'15
morning max el	6013 Aug 10 06:25	28°♐28'23 23°51'13	transit begin	6014 Jun 25 04:18	7°♐26'26	
	6013 Aug 11 19:35	0°♎	transit end	6014 Jun 25 11:21	7°♐14'35	
asc. node	6013 Aug 29 05:00	26°♎08'09	min. Earth dist.	6014 Jun 28 04:33	5°♐25'28	0.56190 AU
	6013 Aug 31 03:54	0°♐	morning rise	6014 Jul 03 14:34	2°♐31'49	
morning set	6013 Sep 03 12:11	6°♐55'35	direct	6014 Jul 08 15:24	1°♐33'08	
			morning max el	6014 Jul 22 19:52	8°♐47'59	25°31'43
superior conj	6013 Sep 10 11:13	21°♐58'00 1°37'09		6014 Aug 07 16:04	0°♎	
minimum elong	6013 Sep 10 09:44	21°♐49'56 1°37'03	asc. node	6014 Aug 16 02:02	15°♎43'39	
max. Earth dist.	6013 Sep 12 17:58	26°♐52'16 1.33164 AU	morning set	6014 Aug 18 23:40	21°♎45'55	
	6013 Sep 14 05:25	0°♐		6014 Aug 22 19:02	0°♐	
evening rise	6013 Sep 17 22:38	7°♐39'21				
	6013 Sep 30 02:41	0°♐	superior conj	6014 Aug 25 21:36	6°♐50'04	1°26'13
desc. node	6013 Oct 04 01:50	6°♐21'24	minimum elong	6014 Aug 25 19:29	6°♐38'26	1°25'58
evening max el	6013 Oct 21 18:29	28°♐52'15 27°25'21	max. Earth dist.	6014 Aug 27 00:22	9°♐17'01	1.32320 AU
	6013 Oct 22 23:56	0°♐	evening rise	6014 Sep 01 23:10	22°♐01'02	
retrograde	6013 Nov 04 09:03	6°♐10'40		6014 Sep 05 22:20	0°♐	
evening set	6013 Nov 11 10:19	3°♐33'59	desc. node	6014 Sep 20 22:52	25°♐37'18	
min. Earth dist.	6013 Nov 15 04:11	0°♐13'45 0.63989 AU		6014 Sep 24 01:37	0°♐	
	6013 Nov 15 09:36	30°♋♐	evening max el	6014 Oct 04 03:32	11°♐41'00	27°21'46
inferior conj	6013 Nov 17 16:15	27°♐37'49 -2°28'01	retrograde	6014 Oct 17 22:52	18°♐54'39	
minimum elong	6013 Nov 17 20:40	27°♐26'21 2°26'17	evening set	6014 Oct 25 02:27	16°♐30'39	
morning rise	6013 Nov 24 08:31	22°♐16'04	min. Earth dist.	6014 Oct 28 17:53	13°♐37'54	0.62154 AU
asc. node	6013 Nov 25 04:17	21°♐59'14	inferior conj	6014 Oct 31 16:28	10°♐54'50	-3°32'32
direct	6013 Nov 26 19:52	21°♐45'33	minimum elong	6014 Oct 31 22:34	10°♐40'42	3°30'34
morning max el	6013 Dec 03 08:23	25°♐10'11 17°51'42	morning rise	6014 Nov 07 20:34	5°♐51'16	
	6013 Dec 07 08:45	0°♐	direct	6014 Nov 10 04:09	5°♐27'39	
morning set	6013 Dec 20 03:10	20°♐43'40	asc. node	6014 Nov 12 01:19	5°♐43'45	
	6013 Dec 25 14:13	0°♐	morning max el	6014 Nov 17 00:35	8°♐56'41	17°50'54
desc. node	6013 Dec 31 01:07	9°♐03'53		6014 Nov 30 19:54	0°♐	
			morning set	6014 Dec 02 21:30	3°♐42'16	
superior conj	6014 Jan 02 00:07	12°♐15'46 -0°13'49				
minimum elong	6014 Jan 01 22:33	12°♐09'24 0°13'34	superior conj	6014 Dec 13 22:12	23°♐06'27	0°28'23
behind sun begin	6014 Jan 01 17:08	11°♐47'20	minimum elong	6014 Dec 14 00:43	23°♐17'13	0°28'03
behind sun end	6014 Jan 02 03:58	12°♐31'26	desc. node	6014 Dec 17 22:08	29°♐49'52	
max. Earth dist.	6014 Jan 07 10:52	21°♐00'47 1.44623 AU		6014 Dec 18 00:34	0°♐	
	6014 Jan 13 04:07	0°♐	max. Earth dist.	6014 Dec 21 02:18	5°♐02'44	1.43287 AU
evening rise	6014 Jan 17 20:51	7°♐15'39	evening rise	6014 Dec 28 10:08	16°♐42'13	
	6014 Feb 02 00:00	0°♐		6015 Jan 06 03:21	0°♐	
evening max el	6014 Feb 14 19:06	16°♐40'24 20°26'59		6015 Jan 28 09:42	0°♐	
asc. node	6014 Feb 21 03:30	21°♐07'34	evening max el	6015 Jan 28 16:16	0°♐16'51	21°38'11
retrograde	6014 Feb 22 19:26	21°♐22'13	retrograde	6015 Feb 06 17:02	5°♐38'15	
evening set	6014 Feb 26 17:17	19°♐54'00	asc. node	6015 Feb 08 00:33	5°♐29'08	
inferior conj	6014 Mar 04 01:42	13°♐47'07 2°59'58	evening set	6015 Feb 11 01:09	3°♐54'42	
minimum elong	6014 Mar 03 23:35	13°♐54'23 2°59'32		6015 Feb 14 15:17	30°♋♐	
min. Earth dist.	6014 Mar 04 18:01	12°♐51'28 0.67596 AU	inferior conj	6015 Feb 16 09:06	27°♐37'30	2°29'30
morning rise	6014 Mar 09 05:39	7°♐32'29	minimum elong	6015 Feb 16 06:44	27°♐45'43	2°28'50
direct	6014 Mar 14 20:52	5°♐01'38	min. Earth dist.	6015 Feb 16 12:48	27°♐24'39	0.68094 AU
morning max el	6014 Mar 26 04:11	11°♐47'30 24°26'05	morning rise	6015 Feb 21 12:07	21°♐25'36	
desc. node	6014 Mar 29 00:25	14°♐50'42	direct	6015 Feb 26 12:59	19°♐14'55	
	6014 Apr 09 18:07	0°♐	morning max el	6015 Mar 08 13:42	25°♐11'15	22°56'38
	6014 Apr 28 22:34	0°♐		6015 Mar 12 21:58	0°♐	
morning set	6014 May 01 01:08	3°♐38'38	desc. node	6015 Mar 15 21:27	3°♐41'20	
max. Earth dist.	6014 May 04 16:25	10°♐06'51 1.37651 AU		6015 Apr 03 06:04	0°♐	
			morning set	6015 Apr 12 01:45	14°♐09'02	
superior conj	6014 May 11 14:34	23°♐03'50 -1°18'21	max. Earth dist.	6015 Apr 16 12:12	21°♐38'41	1.39864 AU
minimum elong	6014 May 11 18:59	23°♐25'10 1°17'42		6015 Apr 21 06:30	0°♐	
	6014 May 15 03:49	0°♐				

superior conj	6015 Apr 24 05:57	5°♄23'24	-1°44'54	minimum elong	6016 Apr 05 05:05	17°♄02'25	2°03'41
minimum elong	6015 Apr 24 11:11	5°♄47'26	1°44'22		6016 Apr 12 12:12	0°♄	
evening rise	6015 May 03 23:16	23°♄42'24		evening rise	6016 Apr 16 02:43	6°♄33'40	
asc. node	6015 May 06 23:46	29°♄26'13		asc. node	6016 Apr 22 20:50	18°♄41'47	
	6015 May 07 06:59	0°♄			6016 Apr 30 06:17	0°♄	
evening max el	6015 May 20 02:34	19°♄39'30	18°30'15	evening max el	6016 May 02 12:19	2°♄30'38	18°09'19
retrograde	6015 May 27 18:17	23°♄27'07		retrograde	6016 May 09 07:56	5°♄57'47	
evening set	6015 May 29 23:47	23°♄08'49		evening set	6016 May 11 20:28	5°♄29'55	
inferior conj	6015 Jun 06 13:48	18°♄38'35	1°29'38	inferior conj	6016 May 18 16:33	0°♄39'07	2°35'20
minimum elong	6015 Jun 06 16:41	18°♄32'53	1°28'39	minimum elong	6016 May 18 19:48	0°♄31'37	2°34'30
min. Earth dist.	6015 Jun 09 23:06	15°♄59'31	0.58030 AU		6016 May 19 09:28	30°♄	
desc. node	6015 Jun 11 20:41	14°♄39'06		min. Earth dist.	6016 May 22 00:16	27°♄37'15	0.60207 AU
morning rise	6015 Jun 14 06:20	13°♄15'33		morning rise	6016 May 25 16:37	24°♄49'50	
direct	6015 Jun 20 04:04	11°♄46'18		desc. node	6016 May 28 17:44	23°♄21'58	
morning max el	6015 Jul 04 13:19	19°♄25'38	26°52'52	direct	6016 Jun 01 05:20	22°♄47'07	
	6015 Jul 13 12:45	0°♄			6016 Jun 14 20:14	0°♄	
	6015 Jul 31 06:01	0°♄		morning max el	6016 Jun 15 13:27	0°♄41'49	27°41'48
asc. node	6015 Aug 02 23:04	5°♄34'18			6016 Jul 06 16:01	0°♄	
morning set	6015 Aug 03 09:28	6°♄28'58		morning set	6016 Jul 17 15:47	20°♄59'27	
				asc. node	6016 Jul 19 20:06	25°♄34'52	
superior conj	6015 Aug 10 09:23	21°♄43'10	1°10'23		6016 Jul 21 21:20	0°♄	
minimum elong	6015 Aug 10 07:06	21°♄30'32	1°10'00	max. Earth dist.	6016 Jul 23 21:40	4°♄24'22	1.31907 AU
max. Earth dist.	6015 Aug 10 10:52	21°♄51'27	1.31902 AU				
	6015 Aug 14 03:36	0°♄		superior conj	6016 Jul 24 20:46	6°♄31'35	0°50'08
evening rise	6015 Aug 17 05:35	6°♄37'35		minimum elong	6016 Jul 24 18:47	6°♄20'41	0°49'44
	6015 Aug 29 11:27	0°♄		evening rise	6016 Jul 31 15:36	21°♄22'00	
desc. node	6015 Sep 07 19:54	14°♄06'08			6016 Aug 04 19:37	0°♄	
evening max el	6015 Sep 16 06:46	23°♄45'58	26°44'40		6016 Aug 23 10:20	0°♄	
	6015 Sep 25 11:10	0°♄		desc. node	6016 Aug 24 16:56	1°♄28'51	
retrograde	6015 Sep 30 04:32	0°♄54'38		evening max el	6016 Aug 28 02:09	5°♄00'33	25°35'54
	6015 Oct 04 19:16	30°♄		retrograde	6016 Sep 11 00:43	12°♄05'12	
evening set	6015 Oct 07 01:17	28°♄54'51		evening set	6016 Sep 17 01:55	10°♄39'39	
min. Earth dist.	6015 Oct 10 20:41	26°♄18'29	0.60118 AU	min. Earth dist.	6016 Sep 21 14:07	8°♄02'20	0.58061 AU
inferior conj	6015 Oct 14 01:51	23°♄42'35	-4°30'47	inferior conj	6016 Sep 24 16:56	5°♄51'08	-5°12'11
minimum elong	6015 Oct 14 08:20	23°♄29'27	4°29'18	minimum elong	6016 Sep 24 20:56	5°♄44'04	5°11'45
morning rise	6015 Oct 21 17:28	19°♄00'40		morning rise	6016 Oct 02 18:16	1°♄32'33	
direct	6015 Oct 24 00:41	18°♄40'50		direct	6016 Oct 05 04:48	1°♄14'04	
asc. node	6015 Oct 29 22:22	20°♄58'35		morning max el	6016 Oct 13 17:47	5°♄18'39	18°48'26
morning max el	6015 Oct 31 12:52	22°♄22'44	18°09'19	asc. node	6016 Oct 15 19:25	7°♄30'27	
	6015 Nov 06 11:28	0°♄			6016 Oct 29 08:04	0°♄	
morning set	6015 Nov 16 07:17	17°♄24'26		morning set	6016 Oct 30 03:44	1°♄36'06	
	6015 Nov 23 01:11	0°♄					
superior conj	6015 Nov 25 21:23	5°♄09'56	1°01'22	superior conj	6016 Nov 07 16:42	18°♄11'42	1°24'11
minimum elong	6015 Nov 26 01:10	5°♄26'58	1°00'55	minimum elong	6016 Nov 07 19:53	18°♄26'48	1°23'53
max. Earth dist.	6015 Dec 03 13:05	18°♄30'03	1.41458 AU		6016 Nov 14 02:40	0°♄	
desc. node	6015 Dec 04 19:09	20°♄36'10		max. Earth dist.	6016 Nov 14 19:08	1°♄13'09	1.39363 AU
evening rise	6015 Dec 08 14:55	26°♄53'05		evening rise	6016 Nov 18 17:48	8°♄03'41	
	6015 Dec 10 13:28	0°♄		desc. node	6016 Nov 20 16:09	11°♄18'49	
	6015 Dec 30 20:54	0°♄			6016 Dec 02 12:53	0°♄	
evening max el	6016 Jan 11 08:48	13°♄55'34	22°56'31	evening max el	6016 Dec 23 22:21	27°♄37'00	24°16'17
retrograde	6016 Jan 21 12:28	19°♄56'55			6016 Dec 26 12:09	0°♄	
asc. node	6016 Jan 25 21:36	18°♄19'05		retrograde	6017 Jan 04 04:28	4°♄13'14	
evening set	6016 Jan 26 08:15	17°♄57'49		evening set	6017 Jan 09 13:00	1°♄59'14	
inferior conj	6016 Jan 31 17:21	11°♄33'35	1°50'41	asc. node	6017 Jan 11 18:40	29°♄43'15	
minimum elong	6016 Jan 31 15:13	11°♄41'00	1°49'57		6017 Jan 11 12:49	30°♄	
min. Earth dist.	6016 Jan 31 09:25	12°♄01'01	0.68189 AU	min. Earth dist.	6017 Jan 14 05:37	26°♄36'09	0.67908 AU
morning rise	6016 Feb 05 22:05	5°♄25'50		inferior conj	6017 Jan 15 00:39	25°♄32'06	1°04'22
direct	6016 Feb 10 08:32	3°♄37'56		minimum elong	6017 Jan 14 23:12	25°♄36'59	1°03'50
morning max el	6016 Feb 19 03:42	8°♄44'41	21°31'00	morning rise	6017 Jan 20 09:28	19°♄30'01	
desc. node	6016 Mar 01 18:28	23°♄09'45		direct	6017 Jan 24 06:24	18°♄04'31	
	6016 Mar 06 13:43	0°♄		morning max el	6017 Feb 01 00:55	22°♄29'25	20°15'32
morning set	6016 Mar 21 22:07	23°♄20'36			6017 Feb 07 09:23	0°♄	
	6016 Mar 26 01:38	0°♄		desc. node	6017 Feb 16 15:28	13°♄05'00	
max. Earth dist.	6016 Mar 28 13:05	4°♄03'26	1.41982 AU		6017 Feb 27 20:03	0°♄	
				morning set	6017 Feb 28 21:16	1°♄37'16	
superior conj	6016 Apr 05 01:13	16°♄45'36	-2°03'52	max. Earth dist.	6017 Mar 10 20:52	17°♄19'26	1.43731 AU

superior conj	6017 Mar 16 19:55	27° $\text{H}$ 00'41	-2°09'43	max. Earth dist.	6018 Feb 21 10:58	1° $\text{H}$ 15'45	1.44908 AU
minimum elong	6017 Mar 16 18:59	26° $\text{H}$ 56'54	2°09'43				
	6017 Mar 18 15:13	0° $\text{Y}$		superior conj	6018 Feb 24 14:11	6° $\text{H}$ 13'08	-1°57'04
evening rise	6017 Mar 29 12:55	18° $\text{Y}$ 35'40		minimum elong	6018 Feb 24 06:49	5° $\text{H}$ 43'55	1°56'35
	6017 Apr 05 03:22	0° $\text{B}$		evening rise	6018 Mar 11 01:37	29° $\text{H}$ 40'56	
asc. node	6017 Apr 09 17:53	7° $\text{B}$ 30'02			6018 Mar 11 06:14	0° $\text{Y}$	
evening max el	6017 Apr 16 01:00	15° $\text{B}$ 42'13	18°07'52	asc. node	6018 Mar 27 14:55	25° $\text{Y}$ 42'24	
retrograde	6017 Apr 22 11:34	19° $\text{B}$ 04'00		evening max el	6018 Mar 30 13:38	29° $\text{Y}$ 06'34	18°25'07
evening set	6017 Apr 25 06:45	18° $\text{B}$ 24'40			6018 Mar 31 12:09	0° $\text{B}$	
inferior conj	6017 May 01 12:51	13° $\text{B}$ 14'24	3°13'11	retrograde	6018 Apr 06 00:42	2° $\text{B}$ 36'32	
minimum elong	6017 May 01 14:57	13° $\text{B}$ 08'54	3°12'52	evening set	6018 Apr 09 02:28	1° $\text{B}$ 44'26	
min. Earth dist.	6017 May 04 09:56	10° $\text{B}$ 14'14	0.62395 AU		6018 Apr 11 10:44	30° $\text{R}$ $\text{Y}$	
morning rise	6017 May 07 21:33	7° $\text{B}$ 09'35		inferior conj	6018 Apr 14 22:31	26° $\text{Y}$ 16'00	3°28'54
direct	6017 May 14 17:07	4° $\text{B}$ 39'04		minimum elong	6018 Apr 14 23:04	26° $\text{Y}$ 14'24	3°28'52
desc. node	6017 May 15 14:45	4° $\text{B}$ 41'32		min. Earth dist.	6018 Apr 17 04:50	23° $\text{Y}$ 38'09	0.64358 AU
morning max el	6017 May 28 19:23	12° $\text{B}$ 40'37	27°53'00	morning rise	6018 Apr 20 18:49	20° $\text{Y}$ 03'40	
	6017 Jun 11 14:17	0° $\text{II}$		direct	6018 Apr 27 13:08	17° $\text{Y}$ 17'21	
	6017 Jun 29 02:09	0° $\text{E}$		desc. node	6018 May 02 11:46	18° $\text{Y}$ 32'21	
morning set	6017 Jul 01 16:35	5° $\text{E}$ 11'10		morning max el	6018 May 11 04:34	25° $\text{Y}$ 14'57	27°27'49
asc. node	6017 Jul 06 17:08	15° $\text{E}$ 40'55			6018 May 15 12:37	0° $\text{B}$	
max. Earth dist.	6017 Jul 07 04:45	16° $\text{E}$ 43'17	1.32348 AU		6018 Jun 05 01:53	0° $\text{II}$	
				morning set	6018 Jun 15 09:13	18° $\text{II}$ 55'39	
superior conj	6017 Jul 09 06:01	21° $\text{E}$ 09'59	0°26'02	max. Earth dist.	6018 Jun 20 04:14	28° $\text{II}$ 36'46	1.33255 AU
minimum elong	6017 Jul 09 04:50	21° $\text{E}$ 03'32	0°25'45		6018 Jun 20 20:14	0° $\text{E}$	
	6017 Jul 13 07:04	0° $\text{Q}$					
evening rise	6017 Jul 16 03:16	6° $\text{Q}$ 08'11		superior conj	6018 Jun 23 11:07	5° $\text{E}$ 31'37	-0°01'19
	6017 Jul 28 16:00	0° $\text{M}$		minimum elong	6018 Jun 23 11:12	5° $\text{E}$ 32'00	0°01'20
evening max el	6017 Aug 09 15:18	15° $\text{M}$ 34'11	24°04'56	behind sun begin	6018 Jun 23 05:46	5° $\text{E}$ 03'05	
desc. node	6017 Aug 11 13:57	17° $\text{M}$ 19'43		behind sun end	6018 Jun 23 16:38	6° $\text{E}$ 00'57	
retrograde	6017 Aug 23 09:34	22° $\text{M}$ 29'18		asc. node	6018 Jun 23 14:09	5° $\text{E}$ 47'46	
evening set	6017 Aug 28 02:11	21° $\text{M}$ 40'36		evening rise	6018 Jun 30 14:40	20° $\text{E}$ 49'33	
min. Earth dist.	6017 Sep 03 01:56	18° $\text{M}$ 43'29	0.56271 AU		6018 Jul 05 01:53	0° $\text{Q}$	
inferior conj	6017 Sep 05 11:50	17° $\text{M}$ 14'14	-5°20'53	evening max el	6018 Jul 22 04:40	25° $\text{Q}$ 53'13	22°26'53
minimum elong	6017 Sep 05 09:53	17° $\text{M}$ 17'16	5°20'48		6018 Jul 27 09:20	0° $\text{M}$	
morning rise	6017 Sep 13 20:00	13° $\text{M}$ 15'43		desc. node	6018 Jul 29 11:00	1° $\text{M}$ 05'09	
direct	6017 Sep 16 13:33	12° $\text{M}$ 56'21		retrograde	6018 Aug 04 05:37	2° $\text{M}$ 22'18	
morning max el	6017 Sep 26 12:06	17° $\text{M}$ 35'06	19°49'27	evening set	6018 Aug 07 10:00	2° $\text{M}$ 00'02	
asc. node	6017 Oct 02 16:26	25° $\text{M}$ 04'16			6018 Aug 12 16:08	30° $\text{R}$ $\text{Q}$	
	6017 Oct 05 19:06	0° $\text{A}$		min. Earth dist.	6018 Aug 15 11:38	28° $\text{Q}$ 28'54	0.55088 AU
morning set	6017 Oct 14 07:27	16° $\text{A}$ 08'11		inferior conj	6018 Aug 16 12:52	27° $\text{Q}$ 53'11	-4°40'36
	6017 Oct 21 03:30	0° $\text{M}$		minimum elong	6018 Aug 16 04:52	28° $\text{Q}$ 04'32	4°39'02
				morning rise	6018 Aug 25 01:34	24° $\text{Q}$ 03'46	
superior conj	6017 Oct 22 02:59	1° $\text{M}$ 57'10	1°37'33	direct	6018 Aug 28 05:24	23° $\text{Q}$ 41'06	
minimum elong	6017 Oct 22 04:48	2° $\text{M}$ 06'10	1°37'27	morning max el	6018 Sep 08 17:54	29° $\text{Q}$ 04'03	21°11'51
max. Earth dist.	6017 Oct 28 00:16	13° $\text{M}$ 20'03	1.37265 AU		6018 Sep 09 17:03	0° $\text{M}$	
evening rise	6017 Oct 31 18:42	20° $\text{M}$ 14'28		asc. node	6018 Sep 19 13:27	13° $\text{M}$ 25'06	
	6017 Nov 06 09:45	0° $\text{A}$			6018 Sep 28 05:40	0° $\text{A}$	
desc. node	6017 Nov 07 13:11	1° $\text{A}$ 54'14		morning set	6018 Sep 28 15:47	0° $\text{A}$ 52'18	
	6017 Nov 26 13:57	0° $\text{B}$					
evening max el	6017 Dec 06 11:03	11° $\text{B}$ 21'38	25°30'33	superior conj	6018 Oct 05 23:49	16° $\text{A}$ 12'38	1°42'45
retrograde	6017 Dec 18 16:00	18° $\text{B}$ 22'37		minimum elong	6018 Oct 06 00:08	16° $\text{A}$ 14'19	1°42'45
evening set	6017 Dec 24 13:48	15° $\text{B}$ 55'49		max. Earth dist.	6018 Oct 10 10:15	25° $\text{A}$ 12'45	1.35383 AU
min. Earth dist.	6017 Dec 28 23:08	11° $\text{B}$ 07'02	0.67268 AU		6018 Oct 12 20:59	0° $\text{M}$	
asc. node	6017 Dec 29 15:42	10° $\text{B}$ 13'58		evening rise	6018 Oct 14 13:55	3° $\text{M}$ 15'04	
inferior conj	6017 Dec 30 05:11	9° $\text{B}$ 30'33	0°11'24	desc. node	6018 Oct 25 10:12	22° $\text{M}$ 16'49	
minimum elong	6017 Dec 30 04:53	9° $\text{B}$ 31'30	0°11'19		6018 Oct 30 07:58	0° $\text{A}$	
transit middle	6017 Dec 30 04:53	9° $\text{B}$ 31'30	0°11'19	evening max el	6018 Nov 19 00:03	25° $\text{A}$ 04'36	26°32'02
transit begin	6017 Dec 30 02:53	9° $\text{B}$ 37'55			6018 Nov 25 02:21	0° $\text{B}$	
transit end	6017 Dec 30 06:53	9° $\text{B}$ 25'04		retrograde	6018 Dec 01 22:13	2° $\text{B}$ 18'45	
morning rise	6018 Jan 04 20:20	3° $\text{B}$ 36'09		evening set	6018 Dec 08 08:46	29° $\text{A}$ 42'55	
direct	6018 Jan 08 05:18	2° $\text{B}$ 30'38			6018 Dec 08 00:11	30° $\text{R}$ $\text{A}$	
morning max el	6018 Jan 15 05:59	6° $\text{B}$ 24'44	19°14'09	min. Earth dist.	6018 Dec 12 11:32	25° $\text{A}$ 29'13	0.66271 AU
greatest brilliancy	6018 Jan 28 16:24	24° $\text{B}$ 25'07	-0.7m	inferior conj	6018 Dec 14 04:59	23° $\text{A}$ 24'53	-0°47'20
	6018 Feb 01 08:25	0° $\text{A}$		minimum elong	6018 Dec 14 06:17	23° $\text{A}$ 20'57	0°46'45
desc. node	6018 Feb 03 12:28	3° $\text{A}$ 20'00		asc. node	6018 Dec 16 12:42	20° $\text{A}$ 44'17	
morning set	6018 Feb 07 21:33	10° $\text{A}$ 06'00		morning rise	6018 Dec 20 04:32	17° $\text{A}$ 40'45	
	6018 Feb 20 15:44	0° $\text{H}$		direct	6018 Dec 23 03:26	16° $\text{A}$ 51'45	



morning max el	6018 Dec 29 17:39	20° $\text{♊}$ 26'24	18°28'49		6019 Dec 30 11:43	0° $\text{♋}$	
	6019 Jan 06 04:58	0° $\text{♋}$		morning set	6019 Dec 31 02:44	1° $\text{♋}$ 02'22	
morning set	6019 Jan 18 21:17	19° $\text{♋}$ 49'48		desc. node	6020 Jan 08 06:30	14° $\text{♋}$ 28'00	
desc. node	6019 Jan 21 09:29	23° $\text{♋}$ 49'14					
	6019 Jan 25 07:02	0° $\text{♌}$		superior conj	6020 Jan 14 03:35	23° $\text{♋}$ 55'19	-0°40'30
				minimum elong	6020 Jan 13 22:41	23° $\text{♋}$ 35'48	0°39'48
superior conj	6019 Feb 03 18:14	14° $\text{♌}$ 53'29	-1°24'57		6020 Jan 17 23:41	0° $\text{♌}$	
minimum elong	6019 Feb 03 08:56	14° $\text{♌}$ 17'01	1°23'55	max. Earth dist.	6020 Jan 18 01:29	0° $\text{♌}$ 07'08	1.45108 AU
max. Earth dist.	6019 Feb 04 05:37	15° $\text{♌}$ 38'03	1.45382 AU	evening rise	6020 Jan 30 09:05	19° $\text{♌}$ 17'10	
	6019 Feb 13 09:24	0° $\text{♍}$			6020 Feb 06 08:38	0° $\text{♍}$	
evening rise	6019 Feb 19 15:01	9° $\text{♍}$ 50'06		greatest brilliancy	6020 Feb 13 09:11	10° $\text{♍}$ 34'50	-0.6m
greatest brilliancy	6019 Mar 01 03:11	24° $\text{♍}$ 50'45	-0.8m	evening max el	6020 Feb 25 05:20	26° $\text{♍}$ 11'45	19°51'08
	6019 Mar 04 11:32	0° $\text{♎}$		asc. node	6020 Feb 29 08:59	29° $\text{♍}$ 33'45	
evening max el	6019 Mar 13 23:44	12° $\text{♎}$ 37'56	19°00'02		6020 Mar 01 06:16	0° $\text{♎}$	
asc. node	6019 Mar 14 11:56	13° $\text{♎}$ 08'11		retrograde	6020 Mar 03 17:28	0° $\text{♎}$ 32'33	
retrograde	6019 Mar 20 19:39	16° $\text{♎}$ 28'07			6020 Mar 06 02:16	30° $\text{♎}$ 11'41	
evening set	6019 Mar 24 04:28	15° $\text{♎}$ 22'24		evening set	6020 Mar 07 10:15	29° $\text{♎}$ 12'34	
inferior conj	6019 Mar 29 17:51	9° $\text{♎}$ 37'18	3°27'40	inferior conj	6020 Mar 12 19:47	23° $\text{♎}$ 12'44	3°13'14
minimum elong	6019 Mar 29 17:02	9° $\text{♎}$ 39'54	3°27'37	minimum elong	6020 Mar 12 18:00	23° $\text{♎}$ 18'41	3°12'57
min. Earth dist.	6019 Mar 31 08:34	7° $\text{♎}$ 35'07	0.65952 AU	min. Earth dist.	6020 Mar 13 19:47	21° $\text{♎}$ 52'31	0.67120 AU
morning rise	6019 Apr 04 05:13	3° $\text{♎}$ 22'10		morning rise	6020 Mar 18 01:33	16° $\text{♎}$ 57'26	
direct	6019 Apr 10 15:54	0° $\text{♎}$ 33'33		direct	6020 Mar 24 00:27	14° $\text{♎}$ 17'52	
desc. node	6019 Apr 19 08:47	4° $\text{♎}$ 23'25		morning max el	6020 Apr 04 23:57	21° $\text{♎}$ 27'37	25°15'52
morning max el	6019 Apr 23 14:37	8° $\text{♎}$ 14'20	26°32'29	desc. node	6020 Apr 05 05:48	21° $\text{♎}$ 42'32	
	6019 May 10 13:47	0° $\text{♏}$			6020 Apr 12 09:53	0° $\text{♎}$	
	6019 May 28 12:04	0° $\text{♐}$			6020 May 02 19:33	0° $\text{♏}$	
morning set	6019 May 29 14:24	2° $\text{♐}$ 03'25		morning set	6020 May 11 03:37	14° $\text{♏}$ 21'34	
max. Earth dist.	6019 Jun 02 17:17	10° $\text{♐}$ 01'04	1.34637 AU	max. Earth dist.	6020 May 14 19:37	21° $\text{♏}$ 05'15	1.36455 AU
					6020 May 19 11:22	0° $\text{♐}$	
superior conj	6019 Jun 07 09:52	19° $\text{♐}$ 30'09	-0°30'55				
minimum elong	6019 Jun 07 11:34	19° $\text{♐}$ 38'56	0°30'36	superior conj	6020 May 20 23:20	2° $\text{♐}$ 57'02	-1°01'21
asc. node	6019 Jun 10 11:10	25° $\text{♐}$ 51'28		minimum elong	6020 May 21 02:50	3° $\text{♐}$ 14'23	1°00'45
	6019 Jun 12 10:34	0° $\text{♑}$		asc. node	6020 May 27 08:12	15° $\text{♐}$ 47'39	
evening rise	6019 Jun 14 23:52	5° $\text{♑}$ 20'14		evening rise	6020 May 29 04:38	19° $\text{♐}$ 32'59	
	6019 Jun 28 15:32	0° $\text{♒}$			6020 Jun 03 12:17	0° $\text{♑}$	
evening max el	6019 Jul 04 02:22	6° $\text{♒}$ 31'17	20°56'51	evening max el	6020 Jun 15 12:32	17° $\text{♑}$ 48'22	19°43'57
retrograde	6019 Jul 15 18:00	12° $\text{♒}$ 15'48		retrograde	6020 Jun 25 11:06	22° $\text{♑}$ 40'53	
desc. node	6019 Jul 16 08:00	12° $\text{♒}$ 14'59		evening set	6020 Jun 27 08:33	22° $\text{♑}$ 31'02	
evening set	6019 Jul 17 22:17	12° $\text{♒}$ 04'33		desc. node	6020 Jul 02 05:02	20° $\text{♑}$ 47'42	
inferior conj	6019 Jul 27 05:45	8° $\text{♒}$ 07'15	-3°09'47	inferior conj	6020 Jul 06 05:06	18° $\text{♑}$ 28'22	-1°12'22
minimum elong	6019 Jul 26 21:27	8° $\text{♒}$ 19'00	3°07'06	minimum elong	6020 Jul 06 01:46	18° $\text{♑}$ 33'32	1°11'07
min. Earth dist.	6019 Jul 27 21:45	7° $\text{♒}$ 44'38	0.54778 AU	min. Earth dist.	6020 Jul 08 10:11	17° $\text{♑}$ 06'06	0.55419 AU
morning rise	6019 Aug 04 20:45	4° $\text{♒}$ 08'37		morning rise	6020 Jul 14 16:50	14° $\text{♑}$ 01'01	
direct	6019 Aug 08 14:13	3° $\text{♒}$ 38'48		direct	6020 Jul 19 04:47	13° $\text{♑}$ 16'17	
morning max el	6019 Aug 21 12:50	9° $\text{♒}$ 49'40	22°50'52	morning max el	6020 Aug 02 02:30	20° $\text{♑}$ 10'56	24°35'27
	6019 Sep 05 03:28	0° $\text{♓}$			6020 Aug 10 11:27	0° $\text{♒}$	
asc. node	6019 Sep 06 10:28	2° $\text{♓}$ 21'52		asc. node	6020 Aug 23 07:30	21° $\text{♒}$ 45'25	
morning set	6019 Sep 13 02:41	15° $\text{♓}$ 42'53			6020 Aug 27 07:51	0° $\text{♓}$	
	6019 Sep 19 18:50	0° $\text{♔}$		morning set	6020 Aug 27 14:27	0° $\text{♓}$ 34'56	
superior conj	6019 Sep 20 03:53	0° $\text{♔}$ 48'24	1°40'57	superior conj	6020 Sep 03 12:36	15° $\text{♓}$ 36'40	1°33'09
minimum elong	6019 Sep 20 02:57	0° $\text{♔}$ 43'25	1°40'55	minimum elong	6020 Sep 03 10:47	15° $\text{♓}$ 26'48	1°33'00
max. Earth dist.	6019 Sep 23 04:37	7° $\text{♔}$ 12'27	1.33859 AU	max. Earth dist.	6020 Sep 05 07:13	19° $\text{♓}$ 28'08	1.32751 AU
evening rise	6019 Sep 27 23:20	16° $\text{♔}$ 54'39			6020 Sep 10 06:50	0° $\text{♔}$	
	6019 Oct 04 22:55	0° $\text{♕}$		evening rise	6020 Sep 10 19:14	1° $\text{♔}$ 03'26	
desc. node	6019 Oct 12 07:14	12° $\text{♕}$ 20'26			6020 Sep 26 21:41	0° $\text{♕}$	
	6019 Oct 24 18:17	0° $\text{♌}$		desc. node	6020 Sep 28 04:15	1° $\text{♕}$ 57'06	
evening max el	6019 Nov 01 12:50	8° $\text{♌}$ 36'04	27°13'20	evening max el	6020 Oct 13 23:45	21° $\text{♕}$ 43'52	27°27'42
retrograde	6019 Nov 14 22:28	15° $\text{♌}$ 54'13		retrograde	6020 Oct 27 16:25	29° $\text{♕}$ 00'30	
evening set	6019 Nov 21 19:42	13° $\text{♌}$ 15'20		evening set	6020 Nov 03 19:48	26° $\text{♕}$ 27'31	
min. Earth dist.	6019 Nov 25 16:29	9° $\text{♌}$ 36'29	0.64923 AU	min. Earth dist.	6020 Nov 07 12:01	23° $\text{♕}$ 20'19	0.63244 AU
inferior conj	6019 Nov 27 21:47	7° $\text{♌}$ 09'58	-1°50'30	inferior conj	6020 Nov 10 04:58	20° $\text{♕}$ 39'42	-2°55'40
minimum elong	6019 Nov 28 01:02	7° $\text{♌}$ 01'01	1°49'09	minimum elong	6020 Nov 10 10:11	20° $\text{♕}$ 26'47	2°53'46
asc. node	6019 Dec 03 09:44	2° $\text{♌}$ 08'00		morning rise	6020 Nov 17 02:15	15° $\text{♕}$ 25'34	
morning rise	6019 Dec 04 07:34	1° $\text{♌}$ 39'10		direct	6020 Nov 19 11:42	14° $\text{♕}$ 58'22	
direct	6019 Dec 06 22:31	1° $\text{♌}$ 02'55		asc. node	6020 Nov 19 06:48	14° $\text{♕}$ 58'34	
morning max el	6019 Dec 13 09:29	4° $\text{♌}$ 28'16	18°00'18	morning max el	6020 Nov 26 02:34	18° $\text{♕}$ 23'32	17°49'10

	6020 Dec 04 13:01	0°♊			6021 Oct 28 20:15	30°♎	
morning set	6020 Dec 12 09:33	13°♊28'30		morning rise	6021 Oct 31 08:30	28°♎51'04	
	6020 Dec 22 00:21	0°♋		direct	6021 Nov 02 15:20	28°♎29'33	
				asc. node	6021 Nov 06 03:51	29°♎22'47	
superior conj	6020 Dec 24 10:39	4°♋03'02	0°05'01		6021 Nov 07 05:33	0°♎	
minimum elong	6020 Dec 24 11:10	4°♋05'13	0°04'59	morning max el	6021 Nov 09 17:37	2°♎03'05	17°56'18
behind sun begin	6020 Dec 24 02:09	3°♋27'49		morning set	6021 Nov 25 11:07	26°♎47'26	
behind sun end	6020 Dec 24 20:12	4°♋42'32			6021 Nov 27 05:11	0°♊	
desc. node	6020 Dec 25 03:31	5°♋12'44					
max. Earth dist.	6020 Dec 30 19:12	14°♋23'54	1.44124 AU	superior conj	6021 Dec 05 19:54	15°♊26'21	0°43'36
evening rise	6021 Jan 08 19:36	28°♋33'02		minimum elong	6021 Dec 05 23:16	15°♊41'02	0°43'10
	6021 Jan 09 18:12	0°♌		desc. node	6021 Dec 12 00:32	25°♊59'22	
	6021 Jan 30 04:40	0°♍		max. Earth dist.	6021 Dec 13 08:16	28°♊10'49	1.42555 AU
evening max el	6021 Feb 07 05:31	9°♍47'08	20°55'58		6021 Dec 14 10:52	0°♋	
asc. node	6021 Feb 15 06:02	14°♍44'56		evening rise	6021 Dec 19 14:04	8°♋15'00	
retrograde	6021 Feb 15 15:51	14°♍45'49			6022 Jan 02 22:57	0°♌	
evening set	6021 Feb 19 17:52	13°♍11'03		evening max el	6022 Jan 21 00:29	23°♌24'02	22°10'56
inferior conj	6021 Feb 25 01:50	6°♍59'07	2°48'08	retrograde	6022 Jan 30 12:49	29°♌03'17	
minimum elong	6021 Feb 24 23:33	7°♍06'59	2°47'35	asc. node	6022 Feb 02 03:06	28°♌28'02	
min. Earth dist.	6021 Feb 25 12:34	6°♍22'05	0.67858 AU	evening set	6022 Feb 04 01:37	27°♌13'17	
morning rise	6021 Mar 02 05:03	0°♎45'21		inferior conj	6022 Feb 09 09:51	20°♌52'29	2°14'00
	6021 Mar 03 03:07	30°♎		minimum elong	6022 Feb 09 07:32	21°♌00'35	2°13'17
direct	6021 Mar 07 14:06	28°♌22'48		min. Earth dist.	6022 Feb 09 08:33	20°♌57'03	0.68181 AU
	6021 Mar 12 13:28	0°♏		morning rise	6022 Feb 14 13:17	14°♌41'54	
morning max el	6021 Mar 18 08:51	4°♏48'38	23°48'04	direct	6022 Feb 19 07:54	12°♌40'43	
desc. node	6021 Mar 23 02:51	10°♏05'25		morning max el	6022 Feb 28 19:49	18°♌16'04	22°19'10
	6021 Apr 06 17:55	0°♐		desc. node	6022 Mar 09 23:52	29°♌13'39	
morning set	6021 Apr 22 19:19	25°♐35'49			6022 Mar 10 13:45	0°♑	
	6021 Apr 25 08:26	0°♑			6022 Mar 30 21:09	0°♐	
max. Earth dist.	6021 Apr 26 15:29	2°♑16'32	1.38586 AU	morning set	6022 Apr 03 07:58	5°♐32'38	
				max. Earth dist.	6022 Apr 08 12:14	14°♐07'06	1.40791 AU
superior conj	6021 May 03 24:00	15°♑43'53	-1°30'15				
minimum elong	6021 May 04 04:56	16°♑07'15	1°29'36	superior conj	6022 Apr 16 07:26	27°♐40'34	-1°54'11
	6021 May 11 09:16	0°♒		minimum elong	6022 Apr 16 12:27	28°♐03'04	1°53'48
evening rise	6021 May 13 02:19	3°♒20'47			6022 Apr 17 14:27	0°♑	
asc. node	6021 May 14 05:15	5°♒32'04		evening rise	6022 Apr 26 13:33	16°♑35'26	
evening max el	6021 May 29 10:30	29°♒48'05	18°51'16	asc. node	6022 May 01 02:18	25°♑00'03	
	6021 May 29 15:26	0°♓			6022 May 03 21:50	0°♒	
retrograde	6021 Jun 06 19:30	3°♓55'14		evening max el	6022 May 12 17:07	12°♒23'58	18°18'59
evening set	6021 Jun 08 20:50	3°♓41'18		retrograde	6022 May 19 22:50	16°♒00'41	
	6021 Jun 16 01:34	30°♓		evening set	6022 May 22 07:21	15°♒38'40	
inferior conj	6021 Jun 16 22:23	29°♒22'49	0°37'55	inferior conj	6022 May 29 13:21	11°♒00'03	2°01'11
minimum elong	6021 Jun 16 23:50	29°♒20'11	0°37'21	minimum elong	6022 May 29 16:40	10°♒53'02	2°00'11
desc. node	6021 Jun 19 02:06	27°♒49'27		min. Earth dist.	6022 Jun 01 23:39	8°♒07'57	0.58933 AU
min. Earth dist.	6021 Jun 20 02:22	27°♒06'52	0.56902 AU	morning rise	6022 Jun 05 22:55	5°♒24'30	
morning rise	6021 Jun 24 23:26	24°♒18'40		desc. node	6022 Jun 05 23:08	5°♒24'12	
direct	6021 Jun 30 09:21	23°♒07'53		direct	6022 Jun 12 04:09	3°♒40'27	
	6021 Jul 14 02:23	0°♔		morning max el	6022 Jun 26 13:25	11°♒28'02	27°18'07
morning max el	6021 Jul 14 17:18	0°♔35'22	26°09'39		6022 Jul 11 00:18	0°♕	
	6021 Aug 04 08:14	0°♌		morning set	6022 Jul 27 09:56	0°♌01'16	
asc. node	6021 Aug 10 04:32	11°♌27'57			6022 Jul 27 09:41	0°♌	
morning set	6021 Aug 12 01:24	15°♌22'43		asc. node	6022 Jul 28 01:34	1°♌23'38	
superior conj	6021 Aug 18 23:47	0°♎29'55	1°20'05	superior conj	6022 Aug 03 11:37	15°♌22'11	1°02'19
minimum elong	6021 Aug 18 21:32	0°♎17'32	1°19'46	minimum elong	6022 Aug 03 09:25	15°♌09'57	1°01'55
	6021 Aug 18 18:22	0°♏		max. Earth dist.	6022 Aug 03 02:32	14°♌31'54	1.31844 AU
max. Earth dist.	6021 Aug 19 15:38	1°♏57'19	1.32079 AU	evening rise	6022 Aug 10 06:44	0°♏13'06	
evening rise	6021 Aug 25 22:32	15°♏32'02			6022 Aug 10 04:16	0°♏	
	6021 Sep 02 06:01	0°♐			6022 Aug 26 11:15	0°♐	
desc. node	6021 Sep 15 01:18	20°♐55'12		desc. node	6022 Sep 01 22:20	8°♐58'57	
	6021 Sep 22 04:26	0°♑		evening max el	6022 Sep 08 06:32	15°♐59'02	26°19'04
evening max el	6021 Sep 26 06:26	4°♑14'47	27°10'09	retrograde	6022 Sep 22 05:20	23°♐06'17	
retrograde	6021 Oct 10 03:16	11°♑27'12		evening set	6022 Sep 28 19:12	21°♐20'24	
evening set	6021 Oct 17 05:14	9°♑11'45		min. Earth dist.	6022 Oct 02 19:52	18°♐45'39	0.59227 AU
min. Earth dist.	6021 Oct 20 21:04	6°♑27'52	0.61299 AU	inferior conj	6022 Oct 06 01:19	16°♐18'04	-4°51'18
inferior conj	6021 Oct 23 23:20	3°♑45'29	-3°58'33	minimum elong	6022 Oct 06 07:11	16°♐06'50	4°50'13
minimum elong	6021 Oct 24 05:50	3°♑31'12	3°56'40	morning rise	6022 Oct 13 21:22	11°♐45'49	

direct	6022 Oct 16 05:21	11°♄26'56		morning rise	6023 Sep 25 12:20	23°♄57'56	
morning max el	6022 Oct 24 03:10	15°♄17'38	18°23'15	direct	6023 Sep 28 01:37	23°♄39'10	
asc. node	6022 Oct 24 00:53	15°♄12'09		morning max el	6023 Oct 07 03:45	27°♄56'59	19°11'41
	6022 Nov 03 08:10	0°♄			6023 Oct 09 02:52	0°♄	
morning set	6022 Nov 09 01:56	10°♄43'39		asc. node	6023 Oct 10 21:53	2°♄11'42	
				morning set	6023 Oct 24 01:51	25°♄05'10	
					6023 Oct 26 13:01	0°♄	
superior conj	6022 Nov 18 04:17	27°♄56'17	1°12'16				
minimum elong	6022 Nov 18 07:58	28°♄13'15	1°11'51				
	6022 Nov 19 07:18	0°♄		superior conj	6023 Nov 01 06:31	11°♄18'06	1°30'56
max. Earth dist.	6022 Nov 25 16:30	11°♄18'20	1.40590 AU	minimum elong	6023 Nov 01 09:11	11°♄30'56	1°30'43
desc. node	6022 Nov 28 21:32	16°♄44'39		max. Earth dist.	6023 Nov 07 21:58	23°♄45'57	1.38461 AU
evening rise	6022 Nov 30 03:57	18°♄50'53			6023 Nov 11 10:06	0°♄	
	6022 Dec 07 03:03	0°♄		evening rise	6023 Nov 11 16:30	0°♄27'54	
	6022 Dec 28 08:55	0°♄		desc. node	6023 Nov 15 18:33	7°♄24'57	
evening max el	6023 Jan 03 15:36	7°♄04'14	23°30'44		6023 Nov 30 10:23	0°♄	
retrograde	6023 Jan 14 06:50	13°♄21'07		evening max el	6023 Dec 17 04:45	20°♄48'19	24°49'00
evening set	6023 Jan 19 07:53	11°♄15'49		retrograde	6023 Dec 28 20:52	27°♄35'37	
asc. node	6023 Jan 20 00:09	10°♄39'15		evening set	6024 Jan 03 11:08	25°♄15'52	
min. Earth dist.	6023 Jan 24 05:19	5°♄33'07	0.68118 AU	asc. node	6024 Jan 06 21:10	21°♄35'45	
inferior conj	6023 Jan 24 17:55	4°♄49'57	1°31'53	min. Earth dist.	6024 Jan 08 00:35	20°♄07'27	0.67684 AU
minimum elong	6023 Jan 24 16:01	4°♄56'29	1°31'13	inferior conj	6024 Jan 09 00:16	18°♄49'13	0°42'41
	6023 Jan 28 14:49	30°♄		minimum elong	6024 Jan 08 23:15	18°♄52'35	0°42'18
morning rise	6023 Jan 30 00:05	28°♄44'13		morning rise	6024 Jan 14 11:32	12°♄50'14	
direct	6023 Feb 03 04:43	27°♄05'48		direct	6024 Jan 18 03:16	11°♄33'27	
	6023 Feb 09 11:14	0°♄		morning max el	6024 Jan 25 13:05	15°♄43'19	19°47'34
morning max el	6023 Feb 11 12:28	1°♄53'21	20°57'13		6024 Feb 05 16:11	0°♄	
desc. node	6023 Feb 24 20:52	18°♄54'28		greatest brilliancy	6024 Feb 07 13:28	2°♄45'20	-0.6m
	6023 Mar 04 10:15	0°♄		desc. node	6024 Feb 11 17:51	8°♄59'16	
morning set	6023 Mar 13 17:21	14°♄14'24		morning set	6024 Feb 20 13:51	22°♄27'39	
max. Earth dist.	6023 Mar 21 15:48	26°♄53'52	1.42788 AU		6024 Feb 25 10:35	0°♄	
	6023 Mar 23 13:17	0°♄		max. Earth dist.	6024 Mar 03 03:14	10°♄32'04	1.44317 AU
superior conj	6023 Mar 28 16:40	8°♄35'12	-2°08'19	superior conj	6024 Mar 08 00:32	18°♄22'26	-2°06'50
minimum elong	6023 Mar 28 18:56	8°♄44'49	2°08'16	minimum elong	6024 Mar 07 20:46	18°♄07'12	2°06'42
evening rise	6023 Apr 09 10:10	29°♄06'34			6024 Mar 15 02:25	0°♄	
	6023 Apr 09 22:07	0°♄		evening rise	6024 Mar 21 11:43	10°♄45'43	
asc. node	6023 Apr 17 23:21	14°♄04'55			6024 Apr 02 01:36	0°♄	
evening max el	6023 Apr 26 04:34	25°♄25'16	18°06'24	asc. node	6024 Apr 03 20:24	2°♄39'21	
retrograde	6023 May 02 18:53	28°♄47'59		evening max el	6024 Apr 08 17:35	8°♄43'26	18°12'54
evening set	6023 May 05 10:25	28°♄15'18		retrograde	6024 Apr 15 03:10	12°♄07'05	
inferior conj	6023 May 12 00:02	23°♄16'04	2°54'26	evening set	6024 Apr 18 01:12	11°♄22'17	
minimum elong	6023 May 12 02:54	23°♄09'04	2°53'51	inferior conj	6024 Apr 24 02:32	6°♄03'48	3°22'13
min. Earth dist.	6023 May 15 04:02	20°♄12'12	0.61158 AU	minimum elong	6024 Apr 24 03:59	5°♄59'49	3°22'03
morning rise	6023 May 18 17:19	17°♄19'22		min. Earth dist.	6024 Apr 26 17:28	3°♄11'23	0.63272 AU
desc. node	6023 May 23 20:10	15°♄11'04		morning rise	6024 Apr 30 05:34	29°♄55'04	
direct	6023 May 25 10:12	15°♄03'38			6024 Apr 30 03:03	30°♄	
morning max el	6023 Jun 08 15:57	23°♄01'36	27°51'13	direct	6024 May 07 01:24	27°♄16'36	
	6023 Jun 14 20:39	0°♄		desc. node	6024 May 09 17:10	27°♄38'11	
	6023 Jul 04 05:02	0°♄			6024 May 14 17:11	0°♄	
morning set	6023 Jul 11 14:07	14°♄24'08		morning max el	6024 May 20 23:41	5°♄17'06	27°46'28
asc. node	6023 Jul 14 22:35	21°♄26'54			6024 Jun 08 15:32	0°♄	
max. Earth dist.	6023 Jul 17 12:12	27°♄00'10	1.32044 AU	morning set	6024 Jun 24 11:46	28°♄25'03	
					6024 Jun 25 06:38	0°♄	
superior conj	6023 Jul 18 22:17	0°♄06'51	0°40'22	max. Earth dist.	6024 Jun 29 16:42	9°♄10'17	1.32686 AU
minimum elong	6023 Jul 18 20:36	29°♄57'31	0°39'59	asc. node	6024 Jun 30 19:37	11°♄33'40	
	6023 Jul 18 21:03	0°♄					
evening rise	6023 Jul 25 17:41	14°♄59'01		superior conj	6024 Jul 02 06:00	14°♄38'33	0°14'48
	6023 Aug 02 04:31	0°♄		minimum elong	6024 Jul 02 05:17	14°♄34'43	0°14'36
desc. node	6023 Aug 19 19:22	25°♄46'01		behind sun begin	6024 Jul 02 03:08	14°♄23'07	
evening max el	6023 Aug 20 22:57	26°♄54'16	24°59'08	behind sun end	6024 Jul 02 07:26	14°♄46'21	
	6023 Aug 24 14:25	0°♄		evening rise	6024 Jul 09 05:28	29°♄43'52	
retrograde	6023 Sep 03 20:30	3°♄55'12			6024 Jul 09 08:30	0°♄	
evening set	6023 Sep 09 09:11	2°♄45'59			6024 Jul 26 04:39	0°♄	
	6023 Sep 14 11:49	30°♄		evening max el	6024 Aug 01 11:00	7°♄16'36	23°22'55
min. Earth dist.	6023 Sep 14 10:21	0°♄02'21	0.57250 AU	desc. node	6024 Aug 05 16:24	10°♄47'31	
inferior conj	6023 Sep 17 07:49	28°♄07'30	-5°20'57	retrograde	6024 Aug 14 23:27	14°♄03'02	
minimum elong	6023 Sep 17 09:38	28°♄04'28	5°20'52	evening set	6024 Aug 19 00:29	13°♄27'13	

min. Earth dist.	6024 Aug 25 20:25	10° $\mathbb{M}$ 17'21	0.55679 AU	evening max el	6025 Jul 14 02:56	17° $\Omega$ 40'03	21°46'52
inferior conj	6024 Aug 27 18:17	9° $\mathbb{M}$ 09'50	-5°10'22	desc. node	6025 Jul 23 13:25	23° $\Omega$ 30'15	
minimum elong	6024 Aug 27 13:23	9° $\mathbb{M}$ 17'04	5°09'50	retrograde	6025 Jul 26 15:45	23° $\Omega$ 52'55	
morning rise	6024 Sep 05 04:39	5° $\mathbb{M}$ 17'25		evening set	6025 Jul 29 07:33	23° $\Omega$ 37'00	
direct	6024 Sep 08 02:23	4° $\mathbb{M}$ 56'55		inferior conj	6025 Aug 07 14:19	19° $\Omega$ 35'30	-4°07'26
morning max el	6024 Sep 18 16:42	9° $\mathbb{M}$ 52'51	20°22'12	minimum elong	6025 Aug 07 05:18	19° $\Omega$ 48'08	4°05'05
asc. node	6024 Sep 26 18:53	20° $\mathbb{M}$ 06'42		min. Earth dist.	6025 Aug 07 06:10	19° $\Omega$ 46'56	0.54833 AU
	6024 Oct 02 10:23	0° $\underline{\Omega}$		morning rise	6025 Aug 16 04:25	15° $\Omega$ 44'47	
morning set	6024 Oct 07 07:46	9° $\underline{\Omega}$ 43'00		direct	6025 Aug 19 13:13	15° $\Omega$ 19'58	
				morning max el	6025 Aug 31 17:40	21° $\Omega$ 03'27	21°52'34
superior conj	6024 Oct 14 21:43	25° $\underline{\Omega}$ 17'33	1°40'40		6025 Sep 08 05:54	0° $\mathbb{M}$	
minimum elong	6024 Oct 14 22:53	25° $\underline{\Omega}$ 23'27	1°40'39	asc. node	6025 Sep 13 15:55	8° $\mathbb{M}$ 44'32	
	6024 Oct 17 06:06	0° $\mathbb{M}$		morning set	6025 Sep 21 17:26	24° $\mathbb{M}$ 31'05	
max. Earth dist.	6024 Oct 20 04:42	5° $\mathbb{M}$ 44'32	1.36421 AU		6025 Sep 24 07:49	0° $\underline{\Omega}$	
evening rise	6024 Oct 24 01:36	13° $\mathbb{M}$ 00'33					
desc. node	6024 Nov 01 15:34	27° $\mathbb{M}$ 55'32		superior conj	6025 Sep 28 22:03	9° $\underline{\Omega}$ 43'38	1°42'46
	6024 Nov 02 22:04	0° $\mathbb{X}$		minimum elong	6025 Sep 28 21:48	9° $\underline{\Omega}$ 42'20	1°42'47
	6024 Nov 24 10:12	0° $\mathbb{Z}$		max. Earth dist.	6025 Oct 02 17:46	17° $\underline{\Omega}$ 37'31	1.34677 AU
evening max el	6024 Nov 28 17:22	4° $\mathbb{Z}$ 32'38	25°58'43	evening rise	6025 Oct 07 03:24	26° $\underline{\Omega}$ 19'37	
retrograde	6024 Dec 11 06:10	11° $\mathbb{Z}$ 40'36			6025 Oct 09 01:51	0° $\mathbb{M}$	
evening set	6024 Dec 17 09:41	9° $\mathbb{Z}$ 09'03		desc. node	6025 Oct 19 12:38	18° $\mathbb{M}$ 11'22	
min. Earth dist.	6024 Dec 21 16:04	4° $\mathbb{Z}$ 35'29	0.66886 AU		6025 Oct 27 07:11	0° $\mathbb{X}$	
inferior conj	6024 Dec 23 03:00	2° $\mathbb{Z}$ 46'19	-0°12'52	evening max el	6025 Nov 11 06:12	18° $\mathbb{X}$ 11'44	26°52'28
minimum elong	6024 Dec 23 03:20	2° $\mathbb{Z}$ 45'16	0°12'41	retrograde	6025 Nov 24 10:08	25° $\mathbb{X}$ 29'29	
transit middle	6024 Dec 23 03:20	2° $\mathbb{Z}$ 45'16	0°12'41	evening set	6025 Dec 01 01:35	22° $\mathbb{X}$ 51'11	
transit begin	6024 Dec 23 01:35	2° $\mathbb{Z}$ 50'45		min. Earth dist.	6025 Dec 05 01:34	18° $\mathbb{X}$ 52'36	0.65735 AU
transit end	6024 Dec 23 05:06	2° $\mathbb{Z}$ 39'47		inferior conj	6025 Dec 07 00:07	16° $\mathbb{X}$ 37'40	-1°13'41
asc. node	6024 Dec 23 18:11	1° $\mathbb{Z}$ 59'06		minimum elong	6025 Dec 07 02:14	16° $\mathbb{X}$ 31'33	1°12'47
	6024 Dec 25 10:25	30° $\mathbb{X}$ $\mathbb{X}$		asc. node	6025 Dec 10 15:11	12° $\mathbb{X}$ 46'40	
morning rise	6024 Dec 28 21:32	26° $\mathbb{X}$ 56'16		morning rise	6025 Dec 13 03:52	10° $\mathbb{X}$ 58'59	
direct	6025 Jan 01 01:58	25° $\mathbb{X}$ 58'19		direct	6025 Dec 15 22:59	10° $\mathbb{X}$ 16'02	
morning max el	6025 Jan 07 21:18	29° $\mathbb{X}$ 42'37	18°52'57	morning max el	6025 Dec 22 11:08	13° $\mathbb{X}$ 45'50	18°14'37
	6025 Jan 08 04:12	0° $\mathbb{Z}$			6026 Jan 03 03:43	0° $\mathbb{Z}$	
desc. node	6025 Jan 28 14:50	29° $\mathbb{Z}$ 21'02		morning set	6026 Jan 10 10:41	11° $\mathbb{Z}$ 46'02	
	6025 Jan 29 00:48	0° $\approx$		desc. node	6026 Jan 15 11:52	19° $\mathbb{Z}$ 55'02	
morning set	6025 Jan 29 22:16	1° $\approx$ 23'55			6026 Jan 21 19:37	0° $\approx$	
max. Earth dist.	6025 Feb 13 19:52	24° $\approx$ 42'42	1.45200 AU				
				superior conj	6026 Jan 25 14:36	5° $\approx$ 58'52	-1°06'57
superior conj	6025 Feb 15 10:46	27° $\approx$ 15'33	-1°45'35	minimum elong	6026 Jan 25 06:38	5° $\approx$ 27'33	1°05'57
minimum elong	6025 Feb 15 01:41	26° $\approx$ 39'53	1°44'48	max. Earth dist.	6026 Jan 27 14:51	9° $\approx$ 08'18	1.45353 AU
	6025 Feb 17 04:31	0° $\mathbb{H}$			6026 Feb 09 23:24	0° $\mathbb{H}$	
evening rise	6025 Mar 02 14:32	21° $\mathbb{H}$ 27'02		evening rise	6026 Feb 10 18:45	1° $\mathbb{H}$ 15'32	
	6025 Mar 07 21:02	0° $\mathbb{Y}$		greatest brilliancy	6026 Feb 22 10:03	19° $\mathbb{H}$ 18'37	-0.7m
asc. node	6025 Mar 21 17:26	20° $\mathbb{Y}$ 33'27			6026 Mar 01 18:57	0° $\mathbb{Y}$	
evening max el	6025 Mar 23 05:20	22° $\mathbb{Y}$ 11'04	18°37'47	evening max el	6026 Mar 06 13:41	5° $\mathbb{Y}$ 43'55	19°19'54
retrograde	6025 Mar 29 19:21	25° $\mathbb{Y}$ 48'37		asc. node	6026 Mar 08 14:28	7° $\mathbb{Y}$ 35'37	
evening set	6025 Apr 01 23:57	24° $\mathbb{Y}$ 50'53		retrograde	6026 Mar 13 15:52	9° $\mathbb{Y}$ 46'19	
inferior conj	6025 Apr 07 16:46	19° $\mathbb{Y}$ 14'55	3°30'12	evening set	6026 Mar 17 03:49	8° $\mathbb{Y}$ 34'48	
minimum elong	6025 Apr 07 16:42	19° $\mathbb{Y}$ 15'08	3°30'11	inferior conj	6026 Mar 22 15:17	2° $\mathbb{Y}$ 43'16	3°22'59
min. Earth dist.	6025 Apr 09 16:21	16° $\mathbb{Y}$ 51'04	0.65084 AU	minimum elong	6026 Mar 22 14:00	2° $\mathbb{Y}$ 47'26	3°22'50
morning rise	6025 Apr 13 08:49	13° $\mathbb{Y}$ 00'40		min. Earth dist.	6026 Mar 23 23:40	0° $\mathbb{Y}$ 58'11	0.66502 AU
direct	6025 Apr 20 00:22	10° $\mathbb{Y}$ 11'57			6026 Mar 24 18:02	30° $\mathbb{X}$ $\mathbb{H}$	
desc. node	6025 Apr 26 14:10	12° $\mathbb{Y}$ 24'14		morning rise	6026 Mar 27 23:51	26° $\mathbb{H}$ 27'33	
morning max el	6025 May 03 09:48	18° $\mathbb{Y}$ 04'37	27°07'29	direct	6026 Apr 03 05:54	23° $\mathbb{H}$ 41'19	
	6025 May 13 10:03	0° $\mathbb{B}$		desc. node	6026 Apr 13 11:11	28° $\mathbb{H}$ 56'18	
	6025 Jun 01 13:49	0° $\mathbb{I}$			6026 Apr 14 14:40	0° $\mathbb{Y}$	
morning set	6025 Jun 08 00:02	11° $\mathbb{I}$ 55'44		morning max el	6026 Apr 15 19:41	1° $\mathbb{Y}$ 11'29	26°01'47
max. Earth dist.	6025 Jun 12 12:10	20° $\mathbb{I}$ 52'13	1.33785 AU		6026 May 07 10:53	0° $\mathbb{B}$	
				morning set	6026 May 21 23:06	24° $\mathbb{B}$ 44'39	
superior conj	6025 Jun 16 08:42	28° $\mathbb{I}$ 51'17	-0°13'41		6026 May 24 18:12	0° $\mathbb{I}$	
minimum elong	6025 Jun 16 09:25	28° $\mathbb{I}$ 55'06	0°13'33	max. Earth dist.	6026 May 25 20:11	2° $\mathbb{I}$ 04'40	1.35357 AU
behind sun begin	6025 Jun 16 06:25	28° $\mathbb{I}$ 39'17					
behind sun end	6025 Jun 16 12:26	29° $\mathbb{I}$ 10'55		superior conj	6026 May 31 03:54	12° $\mathbb{I}$ 37'41	-0°43'51
	6025 Jun 16 21:45	0° $\mathbb{B}$		minimum elong	6026 May 31 06:22	12° $\mathbb{I}$ 50'13	0°43'24
asc. node	6025 Jun 17 16:40	1° $\mathbb{B}$ 39'58		asc. node	6026 Jun 04 13:42	21° $\mathbb{I}$ 41'14	
evening rise	6025 Jun 23 16:11	14° $\mathbb{B}$ 21'42		evening rise	6026 Jun 07 23:49	28° $\mathbb{I}$ 45'39	
	6025 Jul 01 14:10	0° $\Omega$			6026 Jun 08 14:19	0° $\mathbb{B}$	

































































































































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	6026 Jun 27 19:27	0° $\text{♊}$			6027 Jun 01 06:37	0° $\text{♊}$	
retrograde	6026 Jul 07 04:31	3° $\text{♊}$ 56'24		evening max el	6027 Jun 08 21:32	10° $\text{♊}$ 10'59	19°19'01
evening set	6026 Jul 09 03:47	3° $\text{♊}$ 46'43		retrograde	6027 Jun 18 02:49	14° $\text{♊}$ 42'08	
desc. node	6026 Jul 10 10:28	3° $\text{♊}$ 30'34		evening set	6027 Jun 20 01:20	14° $\text{♊}$ 31'01	
inferior conj	6026 Jul 18 08:15	29° $\text{♊}$ 49'18	-2°21'08	desc. node	6027 Jun 27 07:29	11° $\text{♊}$ 12'44	
minimum elong	6026 Jul 18 01:44	29° $\text{♊}$ 58'48	2°18'49	inferior conj	6027 Jun 28 14:17	10° $\text{♊}$ 22'39	-0°23'06
	6026 Jul 18 00:55	30° $\text{♊}$		minimum elong	6027 Jun 28 13:17	10° $\text{♊}$ 24'19	0°22'45
min. Earth dist.	6026 Jul 19 17:30	29° $\text{♊}$ 00'52	0.54931 AU	min. Earth dist.	6027 Jul 01 07:17	8° $\text{♊}$ 36'13	0.55969 AU
morning rise	6026 Jul 26 22:40	25° $\text{♊}$ 39'58		morning rise	6027 Jul 06 22:22	5° $\text{♊}$ 40'05	
direct	6026 Jul 30 23:23	25° $\text{♊}$ 04'53		direct	6027 Jul 11 19:54	4° $\text{♊}$ 45'19	
	6026 Aug 11 13:54	0° $\text{♊}$		morning max el	6027 Jul 25 22:50	11° $\text{♊}$ 55'01	25°17'39
morning max el	6026 Aug 13 09:37	1° $\text{♊}$ 36'20	23°35'30		6027 Aug 08 20:56	0° $\text{♊}$	
asc. node	6026 Aug 31 12:58	27° $\text{♊}$ 53'52		asc. node	6027 Aug 18 10:02	17° $\text{♊}$ 26'36	
	6026 Sep 01 14:56	0° $\text{♊}$		morning set	6027 Aug 21 16:31	24° $\text{♊}$ 13'47	
morning set	6026 Sep 06 04:54	9° $\text{♊}$ 22'55			6027 Aug 24 08:50	0° $\text{♊}$	
superior conj	6026 Sep 13 04:24	24° $\text{♊}$ 25'54	1°38'20	superior conj	6027 Aug 28 14:24	9° $\text{♊}$ 17'04	1°28'13
minimum elong	6026 Sep 13 03:03	24° $\text{♊}$ 18'35	1°38'15	minimum elong	6027 Aug 28 12:21	9° $\text{♊}$ 05'50	1°27'59
max. Earth dist.	6026 Sep 15 15:38	29° $\text{♊}$ 42'56	1.33333 AU	max. Earth dist.	6027 Aug 29 21:11	12° $\text{♊}$ 05'38	1.32421 AU
	6026 Sep 15 18:51	0° $\text{♊}$		evening rise	6027 Sep 04 17:08	24° $\text{♊}$ 31'46	
evening rise	6026 Sep 20 17:43	10° $\text{♊}$ 13'14			6027 Sep 07 09:58	0° $\text{♊}$	
	6026 Oct 01 10:28	0° $\text{♊}$		desc. node	6027 Sep 23 06:43	27° $\text{♊}$ 26'33	
desc. node	6026 Oct 06 09:41	8° $\text{♊}$ 04'46			6027 Sep 25 01:11	0° $\text{♊}$	
	6026 Oct 23 03:58	0° $\text{♊}$		evening max el	6027 Oct 07 04:10	14° $\text{♊}$ 29'18	27°24'22
evening max el	6026 Oct 24 18:30	1° $\text{♊}$ 34'56	27°23'08	retrograde	6027 Oct 20 22:47	21° $\text{♊}$ 43'26	
retrograde	6026 Nov 07 07:58	8° $\text{♊}$ 53'20		evening set	6027 Oct 28 02:37	19° $\text{♊}$ 16'48	
evening set	6026 Nov 14 08:18	6° $\text{♊}$ 15'55		min. Earth dist.	6027 Oct 31 18:09	16° $\text{♊}$ 20'37	0.62445 AU
min. Earth dist.	6026 Nov 18 02:55	2° $\text{♊}$ 50'50	0.64241 AU	inferior conj	6027 Nov 03 15:20	13° $\text{♊}$ 37'52	-3°23'01
inferior conj	6026 Nov 20 13:12	0° $\text{♊}$ 17'10	-2°18'06	minimum elong	6027 Nov 03 21:15	13° $\text{♊}$ 23'57	3°21'02
minimum elong	6026 Nov 20 17:18	0° $\text{♊}$ 06'18	2°16'29	morning rise	6027 Nov 10 17:40	8° $\text{♊}$ 31'24	
	6026 Nov 20 19:42	30° $\text{♊}$		direct	6027 Nov 13 01:40	8° $\text{♊}$ 06'54	
morning rise	6026 Nov 27 03:45	24° $\text{♊}$ 52'51		asc. node	6027 Nov 14 09:17	8° $\text{♊}$ 14'56	
asc. node	6026 Nov 27 12:13	24° $\text{♊}$ 44'34		morning max el	6027 Nov 19 20:21	11° $\text{♊}$ 34'35	17°49'50
direct	6026 Nov 29 15:56	24° $\text{♊}$ 20'57			6027 Dec 02 04:54	0° $\text{♊}$	
morning max el	6026 Dec 06 03:50	27° $\text{♊}$ 45'34	17°53'20	morning set	6027 Dec 05 19:16	6° $\text{♊}$ 23'16	
	6026 Dec 08 04:27	0° $\text{♊}$		superior conj	6027 Dec 17 01:57	26° $\text{♊}$ 04'37	0°22'32
morning set	6026 Dec 23 03:43	23° $\text{♊}$ 32'20		minimum elong	6027 Dec 17 04:03	26° $\text{♊}$ 13'29	0°22'15
	6026 Dec 26 23:28	0° $\text{♊}$			6027 Dec 19 10:02	0° $\text{♊}$	
desc. node	6027 Jan 02 08:55	10° $\text{♊}$ 36'50		desc. node	6027 Dec 20 05:56	1° $\text{♊}$ 22'41	
superior conj	6027 Jan 05 07:49	15° $\text{♊}$ 25'11	-0°20'45	max. Earth dist.	6027 Dec 24 02:04	7° $\text{♊}$ 40'02	1.43520 AU
minimum elong	6027 Jan 05 05:25	15° $\text{♊}$ 15'27	0°20'22	evening rise	6027 Dec 31 19:44	19° $\text{♊}$ 55'44	
max. Earth dist.	6027 Jan 10 09:47	23° $\text{♊}$ 32'57	1.44769 AU		6028 Jan 07 09:46	0° $\text{♊}$	
	6027 Jan 14 12:12	0° $\text{♊}$			6028 Jan 28 22:54	0° $\text{♊}$	
evening rise	6027 Jan 21 07:42	10° $\text{♊}$ 33'07		evening max el	6028 Jan 31 15:05	2° $\text{♊}$ 55'31	21°27'00
	6027 Feb 03 04:21	0° $\text{♊}$		retrograde	6028 Feb 09 11:56	8° $\text{♊}$ 10'54	
evening max el	6027 Feb 17 17:08	19° $\text{♊}$ 19'18	20°17'19	asc. node	6028 Feb 10 08:33	8° $\text{♊}$ 06'59	
asc. node	6027 Feb 23 11:30	23° $\text{♊}$ 31'51		evening set	6028 Feb 13 18:28	6° $\text{♊}$ 29'33	
retrograde	6027 Feb 25 14:06	23° $\text{♊}$ 55'19		inferior conj	6028 Feb 19 02:21	0° $\text{♊}$ 13'37	2°34'40
evening set	6027 Mar 01 10:37	22° $\text{♊}$ 29'15		minimum elong	6028 Feb 18 23:59	0° $\text{♊}$ 21'48	2°34'02
inferior conj	6027 Mar 06 19:16	16° $\text{♊}$ 24'12	3°03'46		6028 Feb 19 06:17	30° $\text{♊}$	
minimum elong	6027 Mar 06 17:12	16° $\text{♊}$ 31'10	3°03'23	min. Earth dist.	6028 Feb 19 07:49	29° $\text{♊}$ 54'40	0.68045 AU
min. Earth dist.	6027 Mar 07 13:31	15° $\text{♊}$ 22'09	0.67487 AU	morning rise	6028 Feb 24 05:21	24° $\text{♊}$ 01'18	
morning rise	6027 Mar 11 23:35	10° $\text{♊}$ 09'26		direct	6028 Feb 29 08:20	21° $\text{♊}$ 47'30	
direct	6027 Mar 17 16:54	7° $\text{♊}$ 36'03		morning max el	6028 Mar 10 13:42	27° $\text{♊}$ 51'24	23°09'58
morning max el	6027 Mar 29 04:27	14° $\text{♊}$ 28'18	24°39'15		6028 Mar 12 14:21	0° $\text{♊}$	
desc. node	6027 Mar 31 08:13	16° $\text{♊}$ 45'26		desc. node	6028 Mar 17 05:14	5° $\text{♊}$ 29'16	
	6027 Apr 10 20:29	0° $\text{♊}$			6028 Apr 03 12:45	0° $\text{♊}$	
	6027 Apr 30 07:46	0° $\text{♊}$		morning set	6028 Apr 14 08:39	17° $\text{♊}$ 20'39	
morning set	6027 May 04 03:57	6° $\text{♊}$ 38'19		max. Earth dist.	6028 Apr 18 14:30	24° $\text{♊}$ 34'03	1.39535 AU
max. Earth dist.	6027 May 07 18:43	13° $\text{♊}$ 07'20	1.37336 AU		6028 Apr 21 16:46	0° $\text{♊}$	
superior conj	6027 May 14 12:31	25° $\text{♊}$ 49'53	-1°13'57	superior conj	6028 Apr 26 06:26	8° $\text{♊}$ 17'04	-1°41'15
minimum elong	6027 May 14 16:43	26° $\text{♊}$ 10'18	1°13'18	minimum elong	6028 Apr 26 11:40	8° $\text{♊}$ 41'13	1°40'41
	6027 May 16 15:38	0° $\text{♊}$		evening rise	6028 May 05 19:38	26° $\text{♊}$ 24'33	
asc. node	6027 May 22 10:46	11° $\text{♊}$ 33'36			6028 May 07 16:40	0° $\text{♊}$	

asc. node	6028 May 08 07:48	1° $\Pi$ 11'54			6029 May 01 01:30	0° $\Pi$	
evening max el	6028 May 21 23:34	22° $\Pi$ 27'04	18°35'00	evening max el	6029 May 05 08:34	5° $\Pi$ 14'22	18°11'12
retrograde	6028 May 29 19:25	26° $\Pi$ 19'22		retrograde	6029 May 12 06:32	8° $\Pi$ 43'36	
evening set	6028 May 31 23:47	26° $\Pi$ 02'18		evening set	6029 May 14 17:57	8° $\Pi$ 17'24	
inferior conj	6028 Jun 08 16:44	21° $\Pi$ 35'03	1°16'58	inferior conj	6029 May 21 16:30	3° $\Pi$ 29'46	2°27'14
minimum elong	6028 Jun 08 19:21	21° $\Pi$ 30'00	1°16'03	minimum elong	6029 May 21 19:50	3° $\Pi$ 22'16	2°26'21
min. Earth dist.	6028 Jun 12 01:06	19° $\Pi$ 01'22	0.57725 AU	min. Earth dist.	6029 May 25 01:13	0° $\Pi$ 29'33	0.59872 AU
desc. node	6028 Jun 13 04:31	18° $\Pi$ 12'46			6029 May 25 15:20	30° $\mathbb{R}$ 8	
morning rise	6028 Jun 16 11:35	16° $\Pi$ 16'36		morning rise	6029 May 28 19:00	27° $\mathbb{B}$ 43'35	
direct	6028 Jun 22 06:20	14° $\Pi$ 52'26		desc. node	6029 May 31 01:32	26° $\mathbb{B}$ 35'13	
morning max el	6028 Jul 06 15:33	22° $\Pi$ 28'54	26°42'41	direct	6029 Jun 04 06:01	25° $\mathbb{B}$ 45'32	
	6028 Jul 13 07:30	0° $\mathbb{E}$			6029 Jun 14 11:20	0° $\Pi$	
	6028 Jul 31 17:21	0° $\Omega$		morning max el	6029 Jun 18 14:41	3° $\Pi$ 39'01	27°36'54
asc. node	6028 Aug 04 07:05	7° $\Omega$ 15'38			6029 Jul 07 22:57	0° $\mathbb{E}$	
morning set	6028 Aug 05 02:41	8° $\Omega$ 58'36		morning set	6029 Jul 20 09:36	23° $\mathbb{E}$ 31'31	
				asc. node	6029 Jul 22 04:05	27° $\mathbb{E}$ 15'14	
superior conj	6028 Aug 12 02:05	24° $\Omega$ 10'37	1°13'06		6029 Jul 23 10:50	0° $\Omega$	
minimum elong	6028 Aug 11 23:48	23° $\Omega$ 57'58	1°12'43	max. Earth dist.	6029 Jul 26 18:12	7° $\Omega$ 13'17	1.31873 AU
max. Earth dist.	6028 Aug 12 07:19	24° $\Omega$ 39'37	1.31932 AU				
	6028 Aug 14 17:25	0° $\mathbb{M}$		superior conj	6029 Jul 27 13:37	9° $\Omega$ 00'23	0°53'30
evening rise	6028 Aug 18 22:49	9° $\mathbb{M}$ 06'43		minimum elong	6029 Jul 27 11:34	8° $\Omega$ 49'03	0°53'05
	6028 Aug 29 18:21	0° $\mathbb{A}$		evening rise	6029 Aug 03 08:24	23° $\Omega$ 50'30	
desc. node	6028 Sep 09 03:44	16° $\mathbb{A}$ 04'00			6029 Aug 06 07:08	0° $\mathbb{M}$	
evening max el	6028 Sep 18 08:23	26° $\mathbb{A}$ 41'41	26°52'21		6029 Aug 24 01:58	0° $\mathbb{A}$	
	6028 Sep 22 06:49	0° $\mathbb{M}$		desc. node	6029 Aug 27 00:46	3° $\mathbb{A}$ 38'32	
retrograde	6028 Oct 02 05:50	3° $\mathbb{M}$ 51'19		evening max el	6029 Aug 31 04:53	8° $\mathbb{A}$ 03'47	25°47'58
evening set	6028 Oct 09 04:25	1° $\mathbb{M}$ 46'59		retrograde	6029 Sep 14 03:45	15° $\mathbb{A}$ 09'33	
	6028 Oct 11 20:12	30° $\mathbb{R}$ 5		evening set	6029 Sep 20 08:39	13° $\mathbb{A}$ 38'29	
min. Earth dist.	6028 Oct 12 22:27	29° $\mathbb{A}$ 09'20	0.60426 AU	min. Earth dist.	6029 Sep 24 17:13	11° $\mathbb{A}$ 02'27	0.58354 AU
inferior conj	6028 Oct 16 03:12	26° $\mathbb{A}$ 31'08	-4°22'48	inferior conj	6029 Sep 27 21:10	8° $\mathbb{A}$ 46'20	-5°07'39
minimum elong	6028 Oct 16 09:45	26° $\mathbb{A}$ 17'32	4°21'10	minimum elong	6029 Sep 28 01:47	8° $\mathbb{A}$ 38'01	5°07'04
morning rise	6028 Oct 23 17:12	21° $\mathbb{A}$ 46'00		morning rise	6029 Oct 05 21:14	4° $\mathbb{A}$ 24'21	
direct	6028 Oct 26 00:13	21° $\mathbb{A}$ 25'50		direct	6029 Oct 08 06:54	4° $\mathbb{A}$ 05'53	
asc. node	6028 Oct 31 06:20	23° $\mathbb{A}$ 17'25		morning max el	6029 Oct 16 15:45	8° $\mathbb{A}$ 06'35	18°41'13
morning max el	6028 Nov 02 09:31	25° $\mathbb{A}$ 05'07	18°05'18	asc. node	6029 Oct 18 03:22	9° $\mathbb{A}$ 38'49	
	6028 Nov 06 11:54	0° $\mathbb{M}$			6029 Oct 30 18:48	0° $\mathbb{M}$	
morning set	6028 Nov 18 03:05	20° $\mathbb{M}$ 00'24		morning set	6029 Nov 01 22:12	4° $\mathbb{M}$ 08'36	
	6028 Nov 23 12:05	0° $\mathbb{X}$					
superior conj	6028 Nov 27 21:43	7° $\mathbb{X}$ 58'47	0°57'02	superior conj	6029 Nov 10 14:24	20° $\mathbb{M}$ 53'10	1°21'20
minimum elong	6028 Nov 28 01:28	8° $\mathbb{X}$ 15'29	0°56'33	minimum elong	6029 Nov 10 17:45	21° $\mathbb{M}$ 08'56	1°21'00
max. Earth dist.	6028 Dec 05 13:33	21° $\mathbb{X}$ 13'35	1.41753 AU	max. Earth dist.	6029 Nov 15 13:18	0° $\mathbb{X}$	
desc. node	6028 Dec 06 02:56	22° $\mathbb{X}$ 09'32		evening rise	6029 Nov 17 19:54	4° $\mathbb{X}$ 02'26	1.39684 AU
evening rise	6028 Dec 10 21:36	29° $\mathbb{X}$ 58'52		desc. node	6029 Nov 21 21:08	11° $\mathbb{X}$ 00'47	
	6028 Dec 10 21:53	0° $\mathbb{Z}$			6029 Nov 22 23:58	12° $\mathbb{X}$ 53'19	
	6028 Dec 30 22:53	0° $\approx$			6029 Dec 03 18:50	0° $\mathbb{Z}$	
evening max el	6029 Jan 13 08:07	16° $\approx$ 33'37	22°44'34	evening max el	6029 Dec 26 16:04	0° $\approx$	
retrograde	6029 Jan 23 07:50	22° $\approx$ 29'31		retrograde	6029 Dec 26 21:58	0° $\approx$ 14'44	24°04'33
asc. node	6029 Jan 27 05:35	21° $\approx$ 11'02			6030 Jan 07 00:24	6° $\approx$ 46'28	
evening set	6029 Jan 28 01:46	20° $\approx$ 32'41		evening set	6030 Jan 12 06:57	4° $\approx$ 34'43	
inferior conj	6029 Feb 02 10:36	14° $\approx$ 09'06	1°57'03	asc. node	6030 Jan 14 02:36	2° $\approx$ 47'01	
minimum elong	6029 Feb 02 08:23	14° $\approx$ 16'45	1°56'20		6030 Jan 16 08:46	30° $\mathbb{R}$ 3	
min. Earth dist.	6029 Feb 02 04:19	14° $\approx$ 30'50	0.68201 AU	min. Earth dist.	6030 Jan 17 00:47	29° $\mathbb{Z}$ 06'25	0.67975 AU
morning rise	6029 Feb 07 14:54	8° $\approx$ 00'35		inferior conj	6030 Jan 17 18:08	28° $\mathbb{Z}$ 07'39	1°11'51
direct	6029 Feb 12 03:25	6° $\approx$ 09'19		minimum elong	6030 Jan 17 16:33	28° $\mathbb{Z}$ 13'02	1°11'16
morning max el	6029 Feb 21 02:51	11° $\approx$ 23'23	21°43'09	morning rise	6030 Jan 23 02:12	22° $\mathbb{Z}$ 04'28	
desc. node	6029 Mar 04 02:14	24° $\approx$ 52'39		direct	6030 Jan 27 01:03	20° $\mathbb{Z}$ 35'42	
	6029 Mar 07 17:48	0° $\mathbb{H}$		morning max el	6030 Feb 03 22:50	25° $\mathbb{Z}$ 06'16	20°25'50
morning set	6029 Mar 25 09:04	26° $\mathbb{H}$ 43'16			6030 Feb 08 06:41	0° $\approx$	
	6029 Mar 27 10:05	0° $\mathbb{Y}$		desc. node	6030 Feb 18 23:13	14° $\approx$ 44'29	
max. Earth dist.	6029 Mar 31 14:05	6° $\mathbb{Y}$ 49'18	1.41683 AU		6030 Mar 01 03:07	0° $\mathbb{H}$	
				morning set	6030 Mar 04 10:12	5° $\mathbb{H}$ 04'34	
superior conj	6029 Apr 08 04:55	19° $\mathbb{Y}$ 48'05	-2°01'42	max. Earth dist.	6030 Mar 13 20:31	19° $\mathbb{H}$ 57'09	1.43501 AU
minimum elong	6029 Apr 08 09:12	20° $\mathbb{Y}$ 06'50	2°01'29				
	6029 Apr 13 22:18	0° $\mathbb{B}$		superior conj	6030 Mar 20 03:27	0° $\mathbb{Y}$ 13'39	-2°09'56
evening rise	6029 Apr 19 01:11	9° $\mathbb{B}$ 21'58		minimum elong	6030 Mar 20 03:27	0° $\mathbb{Y}$ 13'43	2°09'56
asc. node	6029 Apr 25 04:49	20° $\mathbb{B}$ 30'51			6030 Mar 20 00:09	0° $\mathbb{Y}$	
				evening rise	6030 Apr 01 14:13	21° $\mathbb{Y}$ 31'55	

	6030 Apr 06 10:35	0°♄			6031 Mar 31 18:43	0°♄	
asc. node	6030 Apr 12 01:51	9°♄23'59		evening max el	6031 Apr 02 09:54	1°♄46'58	18°21'25
evening max el	6030 Apr 18 21:03	18°♄23'59	18°06'57	retrograde	6031 Apr 08 20:15	5°♄14'45	
retrograde	6030 Apr 25 08:18	21°♄45'34		evening set	6031 Apr 11 21:05	4°♄24'32	
evening set	6030 Apr 28 02:32	21°♄08'01			6031 Apr 16 20:49	30°♄♂	
inferior conj	6030 May 04 10:28	16°♄00'43	3°08'58	inferior conj	6031 Apr 17 18:23	28°♄58'40	3°27'43
minimum elong	6030 May 04 12:47	15°♄54'44	3°08'35	minimum elong	6031 Apr 17 19:10	28°♄56'26	3°27'39
min. Earth dist.	6030 May 07 09:34	12°♄58'48	0.62076 AU	min. Earth dist.	6031 Apr 20 02:59	26°♄16'36	0.64086 AU
morning rise	6030 May 10 21:18	9°♄57'45		morning rise	6031 Apr 23 16:20	22°♄47'13	
direct	6030 May 17 16:27	7°♄30'36		direct	6031 Apr 30 11:18	20°♄02'31	
desc. node	6030 May 17 22:32	7°♄30'48		desc. node	6031 May 04 19:33	21°♄00'25	
morning max el	6030 May 31 19:45	15°♄31'43	27°53'44	morning max el	6031 May 14 04:34	28°♄01'04	27°33'42
	6030 Jun 12 15:11	0°♄			6031 May 16 02:00	0°♄	
	6030 Jun 30 13:12	0°♄			6031 Jun 06 09:33	0°♄	
morning set	6030 Jul 04 11:21	7°♄46'45		morning set	6031 Jun 18 05:23	21°♄35'36	
asc. node	6030 Jul 09 01:06	17°♄21'02			6031 Jun 22 09:01	0°♄	
max. Earth dist.	6030 Jul 10 02:02	19°♄35'10	1.32254 AU	max. Earth dist.	6031 Jun 23 02:55	1°♄33'05	1.33093 AU
				asc. node	6031 Jun 25 22:07	7°♄27'58	
superior conj	6030 Jul 11 23:18	23°♄41'05	0°29'57				
minimum elong	6030 Jul 11 21:58	23°♄33'47	0°29'38	superior conj	6031 Jun 26 05:09	8°♄05'31	0°03'03
	6030 Jul 14 20:32	0°♄		minimum elong	6031 Jun 26 05:00	8°♄04'42	0°02'59
evening rise	6030 Jul 18 19:57	8°♄37'13		behind sun begin	6031 Jun 25 23:41	7°♄36'15	
	6030 Jul 29 20:24	0°♄		behind sun end	6031 Jun 26 10:20	8°♄33'11	
evening max el	6030 Aug 12 18:44	18°♄42'35	24°19'21	evening rise	6031 Jul 03 07:30	23°♄19'41	
desc. node	6030 Aug 13 21:48	19°♄45'22			6031 Jul 06 12:36	0°♄	
retrograde	6030 Aug 26 14:17	25°♄39'32		evening max el	6031 Jul 25 07:33	29°♄01'33	22°41'15
evening set	6030 Aug 31 12:18	24°♄45'50			6031 Jul 26 08:26	0°♄	
min. Earth dist.	6030 Sep 06 05:42	21°♄52'36	0.56511 AU	desc. node	6031 Jul 31 18:49	3°♄51'58	
inferior conj	6030 Sep 08 19:02	20°♄16'23	-5°22'25	retrograde	6031 Aug 07 11:53	5°♄35'31	
minimum elong	6030 Sep 08 18:08	20°♄17'48	5°22'25	evening set	6031 Aug 10 21:25	5°♄10'14	
morning rise	6030 Sep 17 02:19	16°♄15'07		min. Earth dist.	6031 Aug 18 15:20	1°♄45'05	0.55220 AU
direct	6030 Sep 19 18:38	15°♄55'58		inferior conj	6031 Aug 19 22:16	1°♄00'58	-4°50'14
morning max el	6030 Sep 29 11:45	20°♄29'08	19°38'55	minimum elong	6031 Aug 19 14:55	1°♄11'28	4°48'56
asc. node	6030 Oct 05 00:23	27°♄04'03			6031 Aug 21 17:32	30°♄♂	
	6030 Oct 06 23:08	0°♄		morning rise	6031 Aug 28 10:24	27°♄11'19	
morning set	6030 Oct 17 01:01	18°♄38'03		direct	6031 Aug 31 12:41	26°♄49'12	
	6030 Oct 22 15:58	0°♄			6031 Sep 09 07:06	0°♄	
				morning max el	6031 Sep 11 19:20	2°♄04'51	20°58'22
superior conj	6030 Oct 24 22:43	4°♄32'43	1°36'03	asc. node	6031 Sep 21 21:24	15°♄18'32	
minimum elong	6030 Oct 25 00:46	4°♄42'47	1°35'56		6031 Sep 29 17:37	0°♄	
max. Earth dist.	6030 Oct 31 00:50	16°♄13'35	1.37573 AU	morning set	6031 Oct 01 08:48	3°♄20'51	
evening rise	6030 Nov 03 18:56	23°♄03'05					
	6030 Nov 07 18:53	0°♄		superior conj	6031 Oct 08 18:12	18°♄44'21	1°42'25
desc. node	6030 Nov 09 21:00	3°♄30'09		minimum elong	6031 Oct 08 18:45	18°♄47'08	1°42'25
	6030 Nov 27 13:51	0°♄		max. Earth dist.	6031 Oct 13 09:59	28°♄07'44	1.35644 AU
evening max el	6030 Dec 09 10:48	13°♄59'34	25°20'08		6031 Oct 14 08:56	0°♄	
retrograde	6030 Dec 21 12:38	20°♄57'14		evening rise	6031 Oct 17 11:41	5°♄56'52	
evening set	6030 Dec 27 08:25	18°♄32'17		desc. node	6031 Oct 27 18:03	23°♄55'15	
asc. node	6030 Dec 31 23:38	13°♄22'53			6031 Oct 31 13:43	0°♄	
min. Earth dist.	6030 Dec 31 18:50	13°♄38'18	0.67388 AU	evening max el	6031 Nov 21 23:48	27°♄43'41	26°24'00
inferior conj	6031 Jan 01 23:12	12°♄06'30	0°19'52		6031 Nov 24 11:54	0°♄	
minimum elong	6031 Jan 01 22:42	12°♄08'07	0°19'41	retrograde	6031 Dec 04 19:36	4°♄56'16	
morning rise	6031 Jan 07 13:16	6°♄10'45		evening set	6031 Dec 11 04:25	2°♄21'25	
direct	6031 Jan 10 23:58	5°♄02'21			6031 Dec 13 15:13	30°♄♂	
morning max el	6031 Jan 18 02:44	9°♄00'09	19°22'16	min. Earth dist.	6031 Dec 15 08:08	28°♄02'37	0.66442 AU
greatest brilliancy	6031 Jan 31 07:04	26°♄32'00	-0.7m	inferior conj	6031 Dec 16 23:52	26°♄02'08	-0°38'04
	6031 Feb 02 14:17	0°♄		minimum elong	6031 Dec 17 00:54	25°♄58'57	0°37'36
desc. node	6031 Feb 05 20:14	4°♄57'05		asc. node	6031 Dec 18 20:40	23°♄49'56	
morning set	6031 Feb 11 08:41	13°♄26'51		morning rise	6031 Dec 22 22:04	20°♄16'21	
	6031 Feb 21 23:46	0°♄		direct	6031 Dec 25 22:22	19°♄25'06	
max. Earth dist.	6031 Feb 24 10:02	3°♄49'25	1.44777 AU	morning max el	6032 Jan 01 13:37	23°♄01'46	18°34'34
					6032 Jan 07 06:15	0°♄	
superior conj	6031 Feb 28 01:02	9°♄34'28	-2°00'17	morning set	6032 Jan 22 04:14	22°♄58'17	
minimum elong	6031 Feb 27 18:30	9°♄08'29	1°59'55	desc. node	6032 Jan 23 17:16	25°♄24'53	
	6031 Mar 12 14:23	0°♄			6032 Jan 26 14:54	0°♄	
evening rise	6031 Mar 14 06:19	2°♄45'51					
asc. node	6031 Mar 29 22:53	27°♄42'23		superior conj	6032 Feb 07 06:09	18°♄16'54	-1°30'51

minimum elong	6032 Feb 06 20:40	17° $\approx$ 39'41	1°29'52	max. Earth dist.	6033 Jan 20 00:23	2° $\approx$ 39'43	1.45195 AU
max. Earth dist.	6032 Feb 07 04:33	18° $\approx$ 10'36	1.45362 AU	evening rise	6033 Feb 01 19:38	22° $\approx$ 35'35	
	6032 Feb 14 17:14	0° $\mathbb{X}$			6033 Feb 06 14:55	0° $\mathbb{X}$	
evening rise	6032 Feb 22 23:13	13° $\mathbb{X}$ 03'35		greatest brilliancy	6033 Feb 15 06:34	13° $\mathbb{X}$ 08'44	-0.7m
greatest brilliancy	6032 Mar 02 15:13	26° $\mathbb{X}$ 50'02	-0.8m	evening max el	6033 Feb 27 02:52	28° $\mathbb{X}$ 51'15	19°42'30
	6032 Mar 04 15:48	0° $\mathbb{Y}$			6033 Feb 28 07:15	0° $\mathbb{Y}$	
asc. node	6032 Mar 15 19:55	15° $\mathbb{Y}$ 16'07		asc. node	6033 Mar 02 16:58	1° $\mathbb{Y}$ 51'56	
evening max el	6032 Mar 15 20:31	15° $\mathbb{Y}$ 17'37	18°53'42	retrograde	6033 Mar 06 12:14	3° $\mathbb{Y}$ 07'08	
retrograde	6032 Mar 22 14:37	19° $\mathbb{Y}$ 04'07		evening set	6033 Mar 10 03:43	1° $\mathbb{Y}$ 49'22	
evening set	6032 Mar 25 22:20	18° $\mathbb{Y}$ 00'25			6033 Mar 12 04:50	30° $\mathbb{R}$ $\mathbb{X}$	
inferior conj	6032 Mar 31 12:31	12° $\mathbb{Y}$ 17'32	3°28'45	inferior conj	6033 Mar 15 13:40	25° $\mathbb{X}$ 51'29	3°16'07
minimum elong	6032 Mar 31 11:53	12° $\mathbb{Y}$ 19'30	3°28'43	minimum elong	6033 Mar 15 12:00	25° $\mathbb{X}$ 57'00	3°15'53
min. Earth dist.	6032 Apr 02 05:28	10° $\mathbb{Y}$ 09'37	0.65743 AU	min. Earth dist.	6033 Mar 16 15:47	24° $\mathbb{X}$ 24'46	0.66976 AU
morning rise	6032 Apr 06 01:00	6° $\mathbb{Y}$ 02'33		morning rise	6033 Mar 20 20:03	19° $\mathbb{X}$ 35'55	
direct	6032 Apr 12 13:04	3° $\mathbb{Y}$ 13'39		direct	6033 Mar 26 20:51	16° $\mathbb{X}$ 54'25	
desc. node	6032 Apr 20 16:34	6° $\mathbb{Y}$ 35'27		desc. node	6033 Apr 07 13:35	23° $\mathbb{X}$ 43'08	
morning max el	6032 Apr 25 14:45	10° $\mathbb{Y}$ 57'42	26°42'18	morning max el	6033 Apr 08 00:20	24° $\mathbb{X}$ 10'02	25°28'09
	6032 May 10 17:13	0° $\mathbb{Z}$			6033 Apr 13 05:49	0° $\mathbb{Y}$	
	6032 May 28 22:39	0° $\mathbb{I}$			6033 May 04 03:17	0° $\mathbb{Z}$	
morning set	6032 May 31 12:30	4° $\mathbb{I}$ 49'13		morning set	6033 May 14 04:29	17° $\mathbb{Z}$ 15'57	
max. Earth dist.	6032 Jun 04 17:43	13° $\mathbb{I}$ 01'39	1.34403 AU	max. Earth dist.	6033 May 17 21:30	24° $\mathbb{Z}$ 07'30	1.36158 AU
					6033 May 20 23:06	0° $\mathbb{I}$	
superior conj	6032 Jun 09 04:59	22° $\mathbb{I}$ 07'30	-0°26'21	superior conj	6033 May 23 20:04	5° $\mathbb{I}$ 39'42	-0°56'46
minimum elong	6032 Jun 09 06:26	22° $\mathbb{I}$ 14'58	0°26'04	minimum elong	6033 May 23 23:18	5° $\mathbb{I}$ 55'51	0°56'12
asc. node	6032 Jun 11 19:10	27° $\mathbb{I}$ 32'17		asc. node	6033 May 29 16:14	17° $\mathbb{I}$ 29'59	
	6032 Jun 12 23:15	0° $\mathbb{E}$		evening rise	6033 May 31 22:46	22° $\mathbb{I}$ 08'05	
evening rise	6032 Jun 16 17:10	7° $\mathbb{E}$ 52'07			6033 Jun 04 21:30	0° $\mathbb{E}$	
	6032 Jun 28 14:15	0° $\mathbb{O}$			6033 Jun 18 11:47	20° $\mathbb{E}$ 45'21	19°53'35
evening max el	6032 Jul 06 03:30	9° $\mathbb{O}$ 34'28	21°09'18	evening max el	6033 Jun 28 16:41	25° $\mathbb{E}$ 45'41	
desc. node	6032 Jul 17 15:51	15° $\mathbb{O}$ 26'31		retrograde	6033 Jun 30 14:06	25° $\mathbb{E}$ 36'06	
retrograde	6032 Jul 18 00:58	15° $\mathbb{O}$ 26'52		evening set	6033 Jul 04 12:51	24° $\mathbb{E}$ 21'01	
evening set	6032 Jul 20 07:41	15° $\mathbb{O}$ 14'43		desc. node	6033 Jul 09 13:01	21° $\mathbb{E}$ 35'11	-1°30'24
inferior conj	6032 Jul 29 15:29	11° $\mathbb{O}$ 16'43	-3°26'03	inferior conj	6033 Jul 09 08:50	21° $\mathbb{E}$ 41'35	1°28'51
minimum elong	6032 Jul 29 06:46	11° $\mathbb{O}$ 28'58	3°23'22	minimum elong	6033 Jul 11 13:22	20° $\mathbb{E}$ 21'34	0.55258 AU
min. Earth dist.	6032 Jul 30 01:10	11° $\mathbb{O}$ 03'06	0.54760 AU	min. Earth dist.	6033 Jul 18 01:40	17° $\mathbb{E}$ 12'49	
morning rise	6032 Aug 07 06:23	7° $\mathbb{O}$ 20'58		morning rise	6033 Jul 22 10:27	16° $\mathbb{E}$ 30'59	
direct	6032 Aug 10 21:26	6° $\mathbb{O}$ 52'42		direct	6033 Aug 05 05:48	23° $\mathbb{E}$ 20'13	24°20'11
morning max el	6032 Aug 23 15:41	12° $\mathbb{O}$ 56'20	22°35'31	morning max el	6033 Aug 11 05:42	0° $\mathbb{O}$	
	6032 Sep 05 10:08	0° $\mathbb{P}$			6033 Aug 25 15:30	23° $\mathbb{O}$ 30'57	
asc. node	6032 Sep 07 18:27	4° $\mathbb{P}$ 10'41		asc. node	6033 Aug 28 20:17	0° $\mathbb{P}$	
morning set	6032 Sep 14 19:26	18° $\mathbb{P}$ 11'04		morning set	6033 Aug 30 07:12	3° $\mathbb{P}$ 03'32	
	6032 Sep 20 08:18	0° $\mathbb{A}$					
superior conj	6032 Sep 21 21:23	3° $\mathbb{A}$ 17'54	1°41'38	superior conj	6033 Sep 06 05:35	18° $\mathbb{P}$ 05'13	1°34'42
minimum elong	6032 Sep 21 20:37	3° $\mathbb{A}$ 13'50	1°41'37	minimum elong	6033 Sep 06 03:53	17° $\mathbb{P}$ 55'58	1°34'33
max. Earth dist.	6032 Sep 25 03:01	10° $\mathbb{A}$ 05'39	1.34057 AU	max. Earth dist.	6033 Sep 08 04:26	22° $\mathbb{P}$ 18'49	1.32884 AU
evening rise	6032 Sep 29 19:13	19° $\mathbb{A}$ 31'22			6033 Sep 11 19:34	0° $\mathbb{A}$	
	6032 Oct 05 08:44	0° $\mathbb{M}$		evening rise	6033 Sep 13 13:47	3° $\mathbb{A}$ 36'44	
desc. node	6032 Oct 13 15:05	14° $\mathbb{M}$ 02'25			6033 Sep 28 02:45	0° $\mathbb{M}$	
	6032 Oct 24 15:20	0° $\mathbb{J}$		desc. node	6033 Sep 30 12:07	3° $\mathbb{M}$ 44'01	
evening max el	6032 Nov 03 12:36	11° $\mathbb{J}$ 17'21	27°08'43	evening max el	6033 Oct 16 23:52	24° $\mathbb{M}$ 29'30	27°27'28
retrograde	6032 Nov 16 20:50	18° $\mathbb{J}$ 35'38			6033 Oct 24 07:15	0° $\mathbb{J}$	
evening set	6032 Nov 23 16:45	15° $\mathbb{J}$ 56'33		retrograde	6033 Oct 30 15:54	1° $\mathbb{J}$ 46'58	
min. Earth dist.	6032 Nov 27 14:18	12° $\mathbb{J}$ 12'46	0.65144 AU		6033 Nov 05 13:59	30° $\mathbb{R}$ $\mathbb{M}$	
inferior conj	6032 Nov 29 17:53	9° $\mathbb{J}$ 48'57	-1°40'43	evening set	6033 Nov 06 18:41	29° $\mathbb{M}$ 12'22	
minimum elong	6032 Nov 29 20:50	9° $\mathbb{J}$ 40'43	1°39'28	min. Earth dist.	6033 Nov 10 11:23	26° $\mathbb{M}$ 00'46	0.63515 AU
asc. node	6032 Dec 04 17:43	5° $\mathbb{J}$ 02'48		inferior conj	6033 Nov 13 02:42	23° $\mathbb{M}$ 21'29	-2°45'50
morning rise	6032 Dec 06 02:04	4° $\mathbb{J}$ 16'09		minimum elong	6033 Nov 13 07:38	23° $\mathbb{M}$ 09'02	2°43'58
direct	6032 Dec 08 18:02	3° $\mathbb{J}$ 38'16		morning rise	6033 Nov 19 22:14	18° $\mathbb{M}$ 04'39	
morning max el	6032 Dec 15 05:04	7° $\mathbb{J}$ 04'23	18°03'29	asc. node	6033 Nov 21 14:45	17° $\mathbb{M}$ 39'01	
	6032 Dec 30 19:41	0° $\mathbb{S}$		direct	6033 Nov 22 08:14	17° $\mathbb{M}$ 36'25	
morning set	6033 Jan 02 05:22	3° $\mathbb{S}$ 58'13		morning max el	6033 Nov 28 22:10	21° $\mathbb{M}$ 01'12	17°49'37
desc. node	6033 Jan 09 14:18	16° $\mathbb{S}$ 02'36			6033 Dec 05 17:36	0° $\mathbb{J}$	
				morning set	6033 Dec 15 08:46	16° $\mathbb{J}$ 14'16	
superior conj	6033 Jan 16 13:29	27° $\mathbb{S}$ 12'25	-0°47'35		6033 Dec 23 09:39	0° $\mathbb{S}$	
minimum elong	6033 Jan 16 07:42	26° $\mathbb{S}$ 49'30	0°46'46	desc. node	6033 Dec 27 11:21	6° $\mathbb{S}$ 46'37	
	6033 Jan 18 07:50	0° $\mathbb{A}$					



superior conj	6033 Dec 27 16:42	7°  08'38	-0°01'36	superior conj	6034 Dec 08 22:05	18°  20'42	0°38'22
minimum elong	6033 Dec 27 16:32	7°  07'55	0°01'32	minimum elong	6034 Dec 09 01:12	18°  34'13	0°37'57
behind sun begin	6033 Dec 27 06:57	6°  28'31		desc. node	6034 Dec 14 08:22	27°  33'13	
behind sun end	6033 Dec 28 02:06	7°  47'14			6034 Dec 15 19:51	0°  3	
max. Earth dist.	6034 Jan 02 18:14	16°  57'58	1.44313 AU	max. Earth dist.	6034 Dec 16 08:01	0°  49'59	1.42822 AU
	6034 Jan 11 01:38	0°  ≈		evening rise	6034 Dec 22 22:34	11°  326'07	
evening rise	6034 Jan 12 06:11	1°  ≈50'03			6035 Jan 04 03:56	0°  ≈	
	6034 Jan 31 05:39	0°  ✕		evening max el	6035 Jan 23 23:33	26°  ≈03'06	21°59'22
evening max el	6034 Feb 10 03:51	12°  ✕26'14	20°45'36		6035 Jan 28 15:51	0°  ✕	
asc. node	6034 Feb 17 14:01	17°  ✕15'08		retrograde	6035 Feb 02 07:51	1°  ✕36'07	
retrograde	6034 Feb 18 10:39	17°  ✕19'04		asc. node	6035 Feb 04 11:02	1°  ✕12'13	
evening set	6034 Feb 22 11:10	15°  ✕46'38		evening set	6035 Feb 06 18:58	29°  ≈48'26	
inferior conj	6034 Feb 27 19:15	9°  ✕36'22	2°52'31		6035 Feb 06 13:08	30°  R≈	
minimum elong	6034 Feb 27 17:00	9°  ✕44'04	2°52'01	inferior conj	6035 Feb 12 03:04	23°  ≈28'52	2°19'42
min. Earth dist.	6034 Feb 28 07:54	8°  ✕52'49	0.67775 AU	minimum elong	6035 Feb 12 00:43	23°  ≈37'03	2°19'00
morning rise	6034 Mar 04 22:39	3°  ✕22'12		min. Earth dist.	6035 Feb 12 03:31	23°  ≈27'18	0.68160 AU
direct	6034 Mar 10 09:51	0°  ✕56'37		morning rise	6035 Feb 17 06:18	17°  ≈17'46	
morning max el	6034 Mar 21 09:07	7°  ✕29'51	24°01'23	direct	6035 Feb 22 03:07	15°  ≈13'09	
desc. node	6034 Mar 25 10:37	11°  ✕57'33		morning max el	6035 Mar 03 19:26	20°  ≈55'48	22°32'08
	6034 Apr 07 22:31	0°  Υ			6035 Mar 11 13:17	0°  ✕	
morning set	6034 Apr 25 23:47	28°  Υ40'59		desc. node	6035 Mar 12 07:38	0°  ✕59'51	
	6034 Apr 26 18:04	0°  8			6035 Apr 01 04:40	0°  Υ	
max. Earth dist.	6034 Apr 29 17:38	5°  814'43	1.38255 AU	morning set	6035 Apr 06 16:40	8°  Υ49'43	
				max. Earth dist.	6035 Apr 11 13:52	16°  Υ58'18	1.40471 AU
superior conj	6034 May 06 22:55	18°  833'25	-1°26'05	superior conj	6035 Apr 19 09:14	0°  838'30	-1°51'04
minimum elong	6034 May 07 03:43	18°  856'11	1°25'27	minimum elong	6035 Apr 19 14:23	1°  801'47	1°50'37
	6034 May 12 20:32	0°  II			6035 Apr 19 00:41	0°  8	
evening rise	6034 May 15 21:43	6°  II00'12		evening rise	6035 Apr 29 10:43	19°  820'23	
asc. node	6034 May 16 13:16	7°  II16'31		asc. node	6035 May 03 10:18	26°  847'18	
	6034 May 29 22:35	0°  ☾			6035 May 05 04:41	0°  II	
evening max el	6034 Jun 01 08:13	2°  ☾39'19	18°57'49	evening max el	6035 May 15 13:47	15°  II10'29	18°22'29
retrograde	6034 Jun 09 22:10	6°  ☾52'08		retrograde	6035 May 22 22:42	18°  II50'33	
evening set	6034 Jun 11 22:36	6°  ☾39'05		evening set	6035 May 25 06:11	18°  II29'53	
inferior conj	6034 Jun 20 03:11	2°  ☾23'34	0°22'40	inferior conj	6035 Jun 01 14:56	13°  II54'12	1°50'30
minimum elong	6034 Jun 20 04:05	2°  ☾21'58	0°22'19	minimum elong	6035 Jun 01 18:09	13°  II47'33	1°49'30
desc. node	6034 Jun 21 09:53	1°  ☾29'20		min. Earth dist.	6035 Jun 05 01:12	11°  II06'10	0.58615 AU
min. Earth dist.	6034 Jun 23 04:56	0°  ☾14'41	0.56637 AU	desc. node	6035 Jun 08 06:53	8°  II51'08	
	6034 Jun 23 13:43	30°  RII		morning rise	6035 Jun 09 02:58	8°  II22'53	
morning rise	6034 Jun 28 06:13	27°  II24'52		direct	6035 Jun 15 05:48	6°  II43'57	
direct	6034 Jul 03 13:03	26°  II18'24		morning max el	6035 Jun 29 15:03	14°  II28'40	27°10'00
	6034 Jul 13 10:24	0°  ☾			6035 Jul 12 02:02	0°  ☾	
morning max el	6034 Jul 17 19:59	3°  ☾41'57	25°56'57		6035 Jul 28 22:13	0°  8	
	6034 Aug 05 16:33	0°  8		morning set	6035 Jul 30 03:19	2°  831'42	
asc. node	6034 Aug 12 12:32	13°  810'51		asc. node	6035 Jul 30 09:34	3°  804'38	
morning set	6034 Aug 14 18:22	17°  851'58					
	6034 Aug 20 08:15	0°  ൬		superior conj	6035 Aug 06 04:20	17°  850'11	1°05'18
superior conj	6034 Aug 21 16:31	2°  ൬57'56	1°22'24	minimum elong	6035 Aug 06 02:05	17°  837'45	1°04'54
minimum elong	6034 Aug 21 14:18	2°  ൬45'46	1°22'05	max. Earth dist.	6035 Aug 05 22:52	17°  820'01	1.31854 AU
max. Earth dist.	6034 Aug 22 12:05	4°  ൬45'48	1.32150 AU		6035 Aug 11 17:24	0°  ൬	
evening rise	6034 Aug 28 16:08	18°  ൬02'46		evening rise	6035 Aug 12 23:44	2°  ൬42'01	
	6034 Sep 03 16:01	0°  8			6035 Aug 27 14:15	0°  8	
desc. node	6034 Sep 17 09:08	22°  848'33		desc. node	6035 Sep 04 06:09	11°  801'12	
	6034 Sep 22 18:58	0°  ൬		evening max el	6035 Sep 11 08:40	18°  858'10	26°28'42
evening max el	6034 Sep 29 07:24	7°  ൬06'44	27°14'57	retrograde	6035 Sep 25 07:09	26°  805'44	
retrograde	6034 Oct 13 03:52	14°  ൬19'43		evening set	6035 Oct 01 23:40	24°  814'52	
evening set	6034 Oct 20 06:33	12°  ൬01'05		min. Earth dist.	6035 Oct 05 22:14	21°  839'55	0.59535 AU
min. Earth dist.	6034 Oct 23 22:05	9°  ൬14'17	0.61602 AU	inferior conj	6035 Oct 09 03:46	19°  809'07	-4°44'27
inferior conj	6034 Oct 26 23:09	6°  ൬31'19	-3°49'29	minimum elong	6035 Oct 09 09:54	18°  857'07	4°43'14
minimum elong	6034 Oct 27 05:33	6°  ൬17'00	3°47'33	morning rise	6035 Oct 16 22:18	14°  833'23	
morning rise	6034 Nov 03 06:34	1°  ൬33'37		direct	6035 Oct 19 05:56	14°  814'13	
direct	6034 Nov 05 13:34	1°  ൬11'27		asc. node	6035 Oct 26 08:49	17°  825'59	
asc. node	6034 Nov 08 11:47	1°  ൬48'59		morning max el	6035 Oct 27 00:12	18°  801'43	18°17'56
morning max el	6034 Nov 12 13:40	4°  ൬43'19	17°53'58		6035 Nov 04 15:18	0°  ൬	
morning set	6034 Nov 28 07:56	29°  ൬26'32		morning set	6035 Nov 11 21:04	13°  ൬18'03	
	6034 Nov 28 15:18	0°  ✕			6035 Nov 20 18:14	0°  ✕	

superior conj	6035 Nov 21 03:20	0°♊41'32	1°08'34	morning set	6036 Oct 25 19:53	27°♊36'37	
minimum elong	6035 Nov 21 07:05	0°♊58'40	1°08'08		6036 Oct 27 00:50	0°♊	
max. Earth dist.	6035 Nov 28 17:15	14°♊05'05	1.40899 AU				
desc. node	6035 Dec 01 05:22	18°♊18'52		superior conj	6036 Nov 03 03:18	13°♊56'58	1°28'40
evening rise	6035 Dec 03 09:10	21°♊53'04		minimum elong	6036 Nov 03 06:09	14°♊10'40	1°28'27
	6035 Dec 08 10:34	0°♊		max. Earth dist.	6036 Nov 09 23:00	26°♊38'40	1.38775 AU
	6035 Dec 29 06:31	0°♊			6036 Nov 11 20:16	0°♊	
evening max el	6036 Jan 06 15:09	9°♊42'52	23°18'46	evening rise	6036 Nov 13 18:26	3°♊21'15	
retrograde	6036 Jan 17 02:19	15°♊54'15		desc. node	6036 Nov 17 02:24	9°♊00'12	
evening set	6036 Jan 22 01:31	13°♊51'06			6036 Nov 30 14:26	0°♊	
asc. node	6036 Jan 22 08:03	13°♊36'59		evening max el	6036 Dec 19 04:25	23°♊26'13	24°37'37
inferior conj	6036 Jan 27 11:13	7°♊25'47	1°38'47		6036 Dec 29 03:24	0°♊	
minimum elong	6036 Jan 27 09:13	7°♊32'40	1°38'04	retrograde	6036 Dec 30 17:03	0°♊09'48	
min. Earth dist.	6036 Jan 27 00:14	8°♊03'32	0.68155 AU		6037 Jan 01 05:23	30°♊	
morning rise	6036 Feb 01 16:50	1°♊19'21		evening set	6037 Jan 05 05:21	27°♊51'57	
	6036 Feb 03 22:46	30°♊		asc. node	6037 Jan 08 05:05	24°♊42'54	
direct	6036 Feb 05 23:31	29°♊37'36		min. Earth dist.	6037 Jan 09 19:52	22°♊38'27	0.67775 AU
	6036 Feb 08 02:33	0°♊		inferior conj	6037 Jan 10 17:57	21°♊25'01	0°50'38
morning max el	6036 Feb 14 11:04	4°♊31'30	21°08'45	minimum elong	6037 Jan 10 16:45	21°♊28'57	0°50'10
desc. node	6036 Feb 27 04:38	20°♊36'17		morning rise	6037 Jan 16 04:19	15°♊24'59	
	6036 Mar 04 15:50	0°♊		direct	6037 Jan 19 21:51	14°♊05'13	
morning set	6036 Mar 16 05:36	17°♊40'45		morning max el	6037 Jan 27 10:32	18°♊19'59	19°57'01
max. Earth dist.	6036 Mar 23 16:33	29°♊37'41	1.42518 AU		6037 Feb 05 18:49	0°♊	
	6036 Mar 23 22:01	0°♊		desc. node	6037 Feb 13 01:40	10°♊37'58	
				morning set	6037 Feb 23 02:31	25°♊53'50	
superior conj	6036 Mar 30 21:59	11°♊42'35	-2°07'04		6037 Feb 25 18:10	0°♊	
minimum elong	6036 Mar 31 00:54	11°♊55'03	2°06'58	max. Earth dist.	6037 Mar 06 02:49	13°♊08'37	1.44130 AU
	6036 Apr 10 07:27	0°♊					
evening rise	6036 Apr 11 09:46	1°♊58'25		superior conj	6037 Mar 11 09:37	21°♊39'18	-2°08'16
asc. node	6036 Apr 19 07:19	15°♊55'52		minimum elong	6037 Mar 11 06:53	21°♊28'10	2°08'12
evening max el	6036 Apr 28 00:42	28°♊08'13	18°07'02		6037 Mar 16 11:14	0°♊	
	6036 Apr 30 06:06	0°♊		evening rise	6037 Mar 24 14:26	13°♊45'42	
retrograde	6036 May 04 16:37	1°♊32'09			6037 Apr 03 05:15	0°♊	
evening set	6036 May 07 07:08	1°♊01'09		asc. node	6037 Apr 06 04:20	4°♊35'10	
	6036 May 09 06:18	30°♊		evening max el	6037 Apr 11 13:38	11°♊23'54	18°10'45
inferior conj	6036 May 13 22:55	26°♊04'46	2°48'07	retrograde	6037 Apr 17 23:25	14°♊46'43	
minimum elong	6036 May 14 01:57	25°♊57'31	2°47'27	evening set	6037 Apr 20 20:26	14°♊03'53	
min. Earth dist.	6036 May 17 04:20	23°♊01'12	0.60828 AU	inferior conj	6037 Apr 26 23:21	8°♊48'10	3°19'23
morning rise	6036 May 20 18:33	20°♊10'28		minimum elong	6037 Apr 27 01:02	8°♊43'36	3°19'10
desc. node	6036 May 25 03:54	18°♊14'12		min. Earth dist.	6037 Apr 29 16:28	5°♊52'40	0.62971 AU
direct	6036 May 27 10:09	17°♊59'14		morning rise	6037 May 03 04:18	2°♊40'35	
morning max el	6036 Jun 10 16:46	25°♊56'01	27°48'44	direct	6037 May 10 00:08	0°♊04'42	
	6036 Jun 14 11:30	0°♊		desc. node	6037 May 12 00:56	0°♊17'19	
	6036 Jul 04 14:08	0°♊		morning max el	6037 May 23 23:59	8°♊05'52	27°49'30
morning set	6036 Jul 13 08:17	16°♊57'14			6037 Jun 09 20:14	0°♊	
asc. node	6036 Jul 16 06:36	23°♊06'59			6037 Jun 26 18:43	0°♊	
	6036 Jul 19 10:50	0°♊		morning set	6037 Jun 27 07:05	1°♊02'01	
max. Earth dist.	6036 Jul 19 09:04	29°♊50'21	1.31986 AU	max. Earth dist.	6037 Jul 02 14:36	12°♊03'50	1.32557 AU
				asc. node	6037 Jul 03 03:37	13°♊13'26	
superior conj	6036 Jul 20 15:16	2°♊36'10	0°43'56				
minimum elong	6036 Jul 20 13:28	2°♊26'13	0°43'34	superior conj	6037 Jul 04 23:33	17°♊10'09	0°18'52
evening rise	6036 Jul 27 10:24	17°♊27'31		minimum elong	6037 Jul 04 22:40	17°♊05'21	0°18'39
	6036 Aug 02 13:59	0°♊			6037 Jul 10 21:21	0°♊	
desc. node	6036 Aug 21 03:09	28°♊01'30		evening rise	6037 Jul 11 22:11	2°♊12'51	
evening max el	6036 Aug 23 02:07	0°♊00'03	25°12'28		6037 Jul 27 01:28	0°♊	
	6036 Aug 23 02:06	0°♊		evening max el	6037 Aug 04 14:19	10°♊25'14	23°37'41
retrograde	6036 Sep 06 00:02	7°♊02'19		desc. node	6037 Aug 08 00:11	13°♊21'07	
evening set	6036 Sep 11 17:27	5°♊47'19		retrograde	6037 Aug 18 05:07	17°♊15'17	
min. Earth dist.	6036 Sep 16 13:39	3°♊06'21	0.57524 AU	evening set	6037 Aug 22 11:40	16°♊35'11	
inferior conj	6036 Sep 19 13:19	1°♊05'30	-5°18'41	min. Earth dist.	6037 Aug 29 00:12	13°♊30'02	0.55869 AU
minimum elong	6036 Sep 19 15:59	1°♊00'57	5°18'30	inferior conj	6037 Aug 31 02:38	12°♊14'39	-5°15'20
	6036 Sep 21 04:36	30°♊		minimum elong	6037 Aug 30 22:46	12°♊20'28	5°14'59
morning rise	6036 Sep 27 16:47	26°♊52'53		morning rise	6037 Sep 08 12:17	8°♊20'28	
direct	6036 Sep 30 05:04	26°♊34'14		direct	6037 Sep 11 08:29	8°♊00'26	
	6036 Oct 08 05:31	0°♊		morning max el	6037 Sep 21 17:15	12°♊50'08	20°10'22
morning max el	6036 Oct 09 02:22	0°♊47'06	19°03'08	asc. node	6037 Sep 29 02:55	22°♊03'36	
asc. node	6036 Oct 12 05:52	4°♊16'04			6037 Oct 03 19:20	0°♊	

morning set	6037 Oct 10 01:05	12° $\Omega$ 12'18		direct	6038 Aug 22 20:49	18° $\Omega$ 30'39	
				morning max el	6038 Sep 03 19:54	24° $\Omega$ 07'02	21°38'00
superior conj	6037 Oct 17 16:53	27° $\Omega$ 51'36	1°39'42		6038 Sep 09 02:06	0° $\Pi$	
minimum elong	6037 Oct 17 18:17	27° $\Omega$ 58'37	1°39'39	asc. node	6038 Sep 15 23:58	10° $\Pi$ 35'33	
	6037 Oct 18 18:31	0° $\Pi$		morning set	6038 Sep 24 10:19	26° $\Pi$ 58'45	
max. Earth dist.	6037 Oct 23 04:58	8° $\Pi$ 38'59	1.36708 AU		6038 Sep 25 20:54	0° $\Omega$	
evening rise	6037 Oct 27 00:45	15° $\Pi$ 46'08					
desc. node	6037 Nov 03 23:26	29° $\Pi$ 32'20		superior conj	6038 Oct 01 16:02	12° $\Omega$ 13'49	1°42'53
	6037 Nov 04 06:09	0° $\Sigma$		minimum elong	6038 Oct 01 15:59	12° $\Omega$ 13'33	1°42'54
	6037 Nov 25 04:01	0° $\Sigma$		max. Earth dist.	6038 Oct 05 16:48	20° $\Omega$ 30'42	1.34916 AU
evening max el	6037 Dec 01 17:02	7° $\Sigma$ 10'29	25°49'08	evening rise	6038 Oct 10 00:18	28° $\Omega$ 58'37	
retrograde	6037 Dec 14 03:13	14° $\Sigma$ 16'26			6038 Oct 10 13:13	0° $\Pi$	
evening set	6037 Dec 20 04:45	11° $\Sigma$ 46'25		desc. node	6038 Oct 21 20:27	19° $\Pi$ 50'15	
min. Earth dist.	6037 Dec 24 12:07	7° $\Sigma$ 07'33	0.67027 AU		6038 Oct 28 10:38	0° $\Sigma$	
inferior conj	6037 Dec 25 21:22	5° $\Sigma$ 22'36	-0°04'02	evening max el	6038 Nov 14 05:56	20° $\Sigma$ 50'45	26°45'49
minimum elong	6037 Dec 25 21:28	5° $\Sigma$ 22'17	0°03'58	retrograde	6038 Nov 27 08:03	28° $\Sigma$ 07'35	
transit middle	6037 Dec 25 21:28	5° $\Sigma$ 22'17	0°03'58	evening set	6038 Dec 03 21:47	25° $\Sigma$ 30'02	
transit begin	6037 Dec 25 18:44	5° $\Sigma$ 30'57		min. Earth dist.	6038 Dec 07 22:45	21° $\Sigma$ 26'06	0.65926 AU
transit end	6037 Dec 26 00:13	5° $\Sigma$ 13'37		inferior conj	6038 Dec 09 19:29	19° $\Sigma$ 14'45	-1°04'13
asc. node	6037 Dec 26 02:08	5° $\Sigma$ 07'35		minimum elong	6038 Dec 09 21:18	19° $\Sigma$ 09'25	1°03'24
	6037 Dec 30 21:42	30° $\Sigma$ 1'01		asc. node	6038 Dec 12 23:12	15° $\Sigma$ 47'19	
morning rise	6037 Dec 31 14:41	29° $\Sigma$ 31'01		morning rise	6038 Dec 15 21:43	13° $\Sigma$ 34'03	
direct	6038 Jan 03 20:38	28° $\Sigma$ 30'32		direct	6038 Dec 18 18:06	12° $\Sigma$ 49'05	
	6038 Jan 08 00:26	0° $\Sigma$		morning max el	6038 Dec 25 06:51	16° $\Sigma$ 20'30	18°19'14
morning max el	6038 Jan 10 17:44	2° $\Sigma$ 18'04	19°00'03		6039 Jan 04 09:22	0° $\Sigma$	
	6038 Jan 30 07:55	0° $\approx$		morning set	6039 Jan 13 15:41	14° $\Sigma$ 47'54	
desc. node	6038 Jan 30 22:42	0° $\approx$ 57'29		desc. node	6039 Jan 17 19:44	21° $\Sigma$ 29'35	
morning set	6038 Feb 02 07:47	4° $\approx$ 39'38			6039 Jan 23 03:56	0° $\approx$	
max. Earth dist.	6038 Feb 16 18:36	27° $\approx$ 14'32	1.45113 AU				
				superior conj	6039 Jan 29 01:59	9° $\approx$ 19'45	-1°13'35
superior conj	6038 Feb 18 22:30	0° $\text{X}$ 38'50	-1°50'04	minimum elong	6039 Jan 28 17:25	8° $\approx$ 46'09	1°12'32
minimum elong	6038 Feb 18 13:54	0° $\text{X}$ 04'55	1°49'24	max. Earth dist.	6039 Jan 30 13:26	11° $\approx$ 38'50	1.45377 AU
	6038 Feb 18 12:39	0° $\text{X}$			6039 Feb 11 06:59	0° $\text{X}$	
evening rise	6038 Mar 05 20:49	24° $\text{X}$ 35'43		evening rise	6039 Feb 14 04:07	4° $\text{X}$ 30'50	
	6038 Mar 09 04:14	0° $\Upsilon$		greatest brilliancy	6039 Feb 25 02:25	21° $\text{X}$ 34'08	-0.8m
asc. node	6038 Mar 24 01:22	22° $\Upsilon$ 36'13			6039 Mar 02 18:24	0° $\Upsilon$	
evening max el	6038 Mar 26 01:47	24° $\Upsilon$ 50'48	18°32'58	evening max el	6039 Mar 09 10:48	8° $\Upsilon$ 23'15	19°12'37
retrograde	6038 Apr 01 14:38	28° $\Upsilon$ 25'30		asc. node	6039 Mar 10 22:25	9° $\Upsilon$ 47'09	
evening set	6038 Apr 04 18:12	27° $\Upsilon$ 29'48		retrograde	6039 Mar 16 10:39	12° $\Upsilon$ 21'06	
inferior conj	6038 Apr 10 12:06	21° $\Upsilon$ 56'30	3°30'02	evening set	6039 Mar 19 21:29	11° $\Upsilon$ 11'40	
minimum elong	6038 Apr 10 12:14	21° $\Upsilon$ 56'04	3°30'00	inferior conj	6039 Mar 25 09:34	5° $\Upsilon$ 22'24	3°24'52
min. Earth dist.	6038 Apr 12 14:04	19° $\Upsilon$ 27'23	0.64838 AU	minimum elong	6039 Mar 25 08:27	5° $\Upsilon$ 26'01	3°24'46
morning rise	6038 Apr 16 05:34	15° $\Upsilon$ 42'44		min. Earth dist.	6039 Mar 26 20:09	3° $\Upsilon$ 31'10	0.66320 AU
direct	6038 Apr 22 22:10	12° $\Upsilon$ 54'34			6039 Mar 29 20:47	30° $\Sigma$ 1'01	
desc. node	6038 Apr 28 21:59	14° $\Upsilon$ 44'38		morning rise	6039 Mar 30 19:03	29° $\text{X}$ 06'51	
morning max el	6038 May 06 09:55	20° $\Upsilon$ 49'29	27°15'10	direct	6039 Apr 06 02:51	26° $\text{X}$ 19'28	
	6038 May 14 08:01	0° $\text{B}$			6039 Apr 14 12:34	0° $\Upsilon$	
	6038 Jun 02 23:02	0° $\Pi$		desc. node	6039 Apr 15 19:01	1° $\Upsilon$ 02'37	
morning set	6038 Jun 10 21:01	14° $\Pi$ 38'04		morning max el	6039 Apr 18 19:50	3° $\Upsilon$ 53'41	26°12'54
max. Earth dist.	6038 Jun 15 11:33	23° $\Pi$ 50'02	1.33589 AU		6039 May 08 16:41	0° $\text{B}$	
	6038 Jun 18 10:48	0° $\text{E}$		morning set	6039 May 24 22:18	27° $\text{B}$ 33'38	
					6039 May 26 05:29	0° $\Pi$	
superior conj	6038 Jun 19 03:12	1° $\text{E}$ 26'25	-0°09'13	max. Earth dist.	6039 May 28 21:11	5° $\Pi$ 05'39	1.35098 AU
minimum elong	6038 Jun 19 03:41	1° $\text{E}$ 28'58	0°09'08				
behind sun begin	6038 Jun 18 23:06	1° $\text{E}$ 04'44		superior conj	6039 Jun 02 23:42	15° $\Pi$ 17'03	-0°39'12
behind sun end	6038 Jun 19 08:16	1° $\text{E}$ 53'13		minimum elong	6039 Jun 03 01:53	15° $\Pi$ 28'15	0°38'49
asc. node	6038 Jun 20 00:39	3° $\text{E}$ 20'00		asc. node	6039 Jun 06 21:40	23° $\Pi$ 21'59	
evening rise	6038 Jun 26 09:13	16° $\text{E}$ 52'11			6039 Jun 10 02:15	0° $\text{E}$	
	6038 Jul 02 22:06	0° $\Omega$		evening rise	6039 Jun 10 17:26	1° $\text{E}$ 18'23	
evening max el	6038 Jul 17 05:13	20° $\Omega$ 46'33	22°00'38		6039 Jun 27 18:06	0° $\Omega$	
desc. node	6038 Jul 25 21:12	26° $\Omega$ 26'50		evening max el	6039 Jun 29 06:17	1° $\Omega$ 34'34	20°34'47
retrograde	6038 Jul 29 22:42	27° $\Omega$ 05'31		retrograde	6039 Jul 10 10:56	7° $\Omega$ 04'31	
evening set	6038 Aug 01 18:31	26° $\Omega$ 47'42		evening set	6039 Jul 12 11:36	6° $\Omega$ 54'28	
min. Earth dist.	6038 Aug 10 09:59	23° $\Omega$ 04'33	0.54904 AU	desc. node	6039 Jul 12 18:15	6° $\Omega$ 51'34	
inferior conj	6038 Aug 11 00:14	22° $\Omega$ 44'33	-4°20'19	inferior conj	6039 Jul 21 17:27	2° $\Omega$ 57'30	-2°38'49
minimum elong	6038 Aug 10 15:25	22° $\Omega$ 56'56	4°18'13	minimum elong	6039 Jul 21 10:12	3° $\Omega$ 07'56	2°36'20
morning rise	6038 Aug 19 13:51	18° $\Omega$ 54'38		min. Earth dist.	6039 Jul 22 20:52	2° $\Omega$ 18'04	0.54859 AU

	6039 Jul 27 06:10	30° $\text{R}\mathfrak{S}$		minimum elong	6040 Jun 30 19:05	13° $\mathfrak{S}$ 28'39	0°39'39
morning rise	6039 Jul 30 08:11	28° $\mathfrak{S}$ 52'18		min. Earth dist.	6040 Jul 03 10:02	11° $\mathfrak{S}$ 47'37	0.55764 AU
direct	6039 Aug 03 06:20	28° $\mathfrak{S}$ 19'11		morning rise	6040 Jul 09 06:23	8° $\mathfrak{S}$ 48'41	
	6039 Aug 09 23:28	0° $\mathfrak{Q}$		direct	6040 Jul 14 00:35	7° $\mathfrak{S}$ 57'40	
morning max el	6039 Aug 16 12:42	4° $\mathfrak{Q}$ 43'34	23°19'49	morning max el	6040 Jul 28 01:52	15° $\mathfrak{S}$ 02'08	25°03'13
asc. node	6039 Sep 02 21:00	29° $\mathfrak{Q}$ 40'29			6040 Aug 08 23:54	0° $\mathfrak{Q}$	
	6039 Sep 03 01:07	0° $\mathfrak{P}$		asc. node	6040 Aug 19 18:01	19° $\mathfrak{Q}$ 09'49	
morning set	6039 Sep 08 21:37	11° $\mathfrak{P}$ 50'05		morning set	6040 Aug 23 09:18	26° $\mathfrak{Q}$ 41'19	
					6040 Aug 24 22:25	0° $\mathfrak{P}$	
superior conj	6039 Sep 15 21:38	26° $\mathfrak{P}$ 53'45	1°39'23				
minimum elong	6039 Sep 15 20:25	26° $\mathfrak{P}$ 47'15	1°39'19	superior conj	6040 Aug 30 07:12	11° $\mathfrak{P}$ 43'51	1°30'05
	6039 Sep 17 08:25	0° $\mathfrak{L}$		minimum elong	6040 Aug 30 05:14	11° $\mathfrak{P}$ 33'03	1°29'52
max. Earth dist.	6039 Sep 18 13:27	2° $\mathfrak{L}$ 33'53	1.33509 AU	max. Earth dist.	6040 Aug 31 18:05	14° $\mathfrak{P}$ 54'24	1.32527 AU
evening rise	6039 Sep 23 12:59	12° $\mathfrak{L}$ 47'26		evening rise	6040 Sep 06 11:12	27° $\mathfrak{P}$ 02'33	
	6039 Oct 02 18:57	0° $\mathfrak{M}$			6040 Sep 07 22:04	0° $\mathfrak{L}$	
desc. node	6039 Oct 08 17:29	9° $\mathfrak{M}$ 47'22		desc. node	6040 Sep 24 14:30	29° $\mathfrak{L}$ 14'37	
	6039 Oct 23 15:23	0° $\mathfrak{X}$			6040 Sep 25 02:46	0° $\mathfrak{M}$	
evening max el	6039 Oct 27 18:30	4° $\mathfrak{X}$ 17'18	27°20'23	evening max el	6040 Oct 09 04:39	17° $\mathfrak{M}$ 16'31	27°26'14
retrograde	6039 Nov 10 06:43	11° $\mathfrak{X}$ 35'36		retrograde	6040 Oct 22 22:33	24° $\mathfrak{M}$ 31'23	
evening set	6039 Nov 17 06:03	8° $\mathfrak{X}$ 57'36		evening set	6040 Oct 30 02:26	22° $\mathfrak{M}$ 02'17	
min. Earth dist.	6039 Nov 21 01:25	5° $\mathfrak{X}$ 27'44	0.64483 AU	min. Earth dist.	6040 Nov 02 18:06	19° $\mathfrak{M}$ 02'29	0.62730 AU
inferior conj	6039 Nov 23 09:57	2° $\mathfrak{X}$ 56'25	-2°08'16	inferior conj	6040 Nov 05 13:53	16° $\mathfrak{M}$ 20'15	-3°13'23
minimum elong	6039 Nov 23 13:45	2° $\mathfrak{X}$ 46'13	2°06'42	minimum elong	6040 Nov 05 19:34	16° $\mathfrak{M}$ 06'38	3°11'24
	6039 Nov 26 07:44	30° $\mathfrak{R}\mathfrak{M}$		morning rise	6040 Nov 12 14:27	11° $\mathfrak{M}$ 11'02	
morning rise	6039 Nov 29 22:47	27° $\mathfrak{M}$ 29'42		direct	6040 Nov 14 22:55	10° $\mathfrak{M}$ 45'38	
asc. node	6039 Nov 29 20:16	27° $\mathfrak{M}$ 32'28		asc. node	6040 Nov 15 17:18	10° $\mathfrak{M}$ 48'24	
direct	6039 Dec 02 11:54	26° $\mathfrak{M}$ 56'20		morning max el	6040 Nov 21 16:03	14° $\mathfrak{M}$ 12'11	17°49'12
	6039 Dec 08 14:38	0° $\mathfrak{X}$			6040 Dec 02 13:09	0° $\mathfrak{X}$	
morning max el	6039 Dec 08 23:17	0° $\mathfrak{X}$ 21'01	17°55'23	morning set	6040 Dec 07 17:22	9° $\mathfrak{X}$ 05'13	
morning set	6039 Dec 26 04:46	26° $\mathfrak{X}$ 22'50					
	6039 Dec 28 08:26	0° $\mathfrak{Z}$		superior conj	6040 Dec 19 06:17	29° $\mathfrak{X}$ 04'31	0°16'27
desc. node	6040 Jan 04 16:44	12° $\mathfrak{Z}$ 10'17		minimum elong	6040 Dec 19 07:53	29° $\mathfrak{X}$ 11'14	0°16'15
					6040 Dec 19 19:32	0° $\mathfrak{Z}$	
superior conj	6040 Jan 08 16:07	18° $\mathfrak{Z}$ 36'38	-0°27'46	desc. node	6040 Dec 21 13:44	2° $\mathfrak{Z}$ 55'35	
minimum elong	6040 Jan 08 12:50	18° $\mathfrak{Z}$ 23'26	0°27'16	max. Earth dist.	6040 Dec 26 01:44	10° $\mathfrak{Z}$ 16'36	1.43743 AU
max. Earth dist.	6040 Jan 13 08:48	26° $\mathfrak{Z}$ 05'34	1.44901 AU	evening rise	6041 Jan 03 05:41	23° $\mathfrak{Z}$ 10'07	
	6040 Jan 15 20:21	0° $\mathfrak{A}$			6041 Jan 07 16:36	0° $\mathfrak{A}$	
evening rise	6040 Jan 24 18:34	13° $\mathfrak{A}$ 51'04			6041 Jan 28 17:27	0° $\mathfrak{H}$	
	6040 Feb 04 09:25	0° $\mathfrak{H}$		evening max el	6041 Feb 02 13:44	5° $\mathfrak{H}$ 33'48	21°15'57
greatest brilliancy	6040 Feb 08 12:34	6° $\mathfrak{H}$ 07'40	-0.6m	retrograde	6041 Feb 11 06:48	10° $\mathfrak{H}$ 43'17	
evening max el	6040 Feb 20 15:04	21° $\mathfrak{H}$ 58'18	20°07'52	asc. node	6041 Feb 11 16:31	10° $\mathfrak{H}$ 42'25	
asc. node	6040 Feb 25 19:28	25° $\mathfrak{H}$ 54'25		evening set	6041 Feb 15 11:45	9° $\mathfrak{H}$ 04'10	
retrograde	6040 Feb 28 08:45	26° $\mathfrak{H}$ 28'43		inferior conj	6041 Feb 20 19:37	2° $\mathfrak{H}$ 49'29	2°39'39
evening set	6040 Mar 03 03:58	25° $\mathfrak{H}$ 04'44		minimum elong	6041 Feb 20 17:16	2° $\mathfrak{H}$ 57'36	2°39'03
inferior conj	6040 Mar 08 12:52	19° $\mathfrak{H}$ 01'31	3°07'19	min. Earth dist.	6041 Feb 21 02:52	2° $\mathfrak{H}$ 24'22	0.67988 AU
minimum elong	6040 Mar 08 10:55	19° $\mathfrak{H}$ 08'08	3°06'59		6041 Feb 22 21:34	30° $\mathfrak{R}\mathfrak{A}$	
min. Earth dist.	6040 Mar 09 09:07	17° $\mathfrak{H}$ 53'07	0.67370 AU	morning rise	6041 Feb 25 22:38	26° $\mathfrak{A}$ 36'42	
morning rise	6040 Mar 13 17:39	12° $\mathfrak{H}$ 46'34		direct	6041 Mar 03 03:44	24° $\mathfrak{A}$ 19'49	
direct	6040 Mar 19 12:58	10° $\mathfrak{H}$ 10'53			6041 Mar 13 01:09	0° $\mathfrak{H}$	
morning max el	6040 Mar 31 04:44	17° $\mathfrak{H}$ 09'15	24°52'13	morning max el	6041 Mar 13 13:49	0° $\mathfrak{H}$ 31'28	23°23'17
desc. node	6040 Apr 01 16:02	18° $\mathfrak{H}$ 41'28		desc. node	6041 Mar 19 13:02	7° $\mathfrak{H}$ 17'51	
	6040 Apr 10 21:36	0° $\mathfrak{Y}$			6041 Apr 04 19:05	0° $\mathfrak{Y}$	
	6040 Apr 30 16:38	0° $\mathfrak{B}$		morning set	6041 Apr 17 14:50	20° $\mathfrak{Y}$ 29'49	
morning set	6040 May 06 06:11	9° $\mathfrak{B}$ 36'03		max. Earth dist.	6041 Apr 21 16:45	27° $\mathfrak{Y}$ 29'34	1.39202 AU
max. Earth dist.	6040 May 09 21:00	16° $\mathfrak{B}$ 08'29	1.37027 AU		6041 Apr 23 03:01	0° $\mathfrak{B}$	
superior conj	6040 May 16 10:04	28° $\mathfrak{B}$ 34'34	-1°09'28	superior conj	6041 Apr 29 06:27	11° $\mathfrak{B}$ 08'50	-1°37'27
minimum elong	6040 May 16 14:02	28° $\mathfrak{B}$ 53'58	1°08'51	minimum elong	6041 Apr 29 11:36	11° $\mathfrak{B}$ 32'53	1°36'51
	6040 May 17 03:30	0° $\mathfrak{I}$		evening rise	6041 May 08 15:42	29° $\mathfrak{B}$ 05'18	
asc. node	6040 May 23 18:42	13° $\mathfrak{I}$ 15'40			6041 May 09 03:01	0° $\mathfrak{I}$	
evening rise	6040 May 24 20:33	15° $\mathfrak{I}$ 25'26		asc. node	6041 May 10 15:44	2° $\mathfrak{I}$ 56'24	
	6040 Jun 01 11:47	0° $\mathfrak{S}$		evening max el	6041 May 24 20:42	25° $\mathfrak{I}$ 14'55	18°40'14
evening max el	6040 Jun 10 20:01	13° $\mathfrak{S}$ 04'14	19°27'14	retrograde	6041 Jun 01 20:57	29° $\mathfrak{I}$ 12'12	
retrograde	6040 Jun 20 07:08	17° $\mathfrak{S}$ 42'36		evening set	6041 Jun 04 00:11	28° $\mathfrak{I}$ 56'20	
evening set	6040 Jun 22 05:09	17° $\mathfrak{S}$ 32'00		inferior conj	6041 Jun 11 20:07	24° $\mathfrak{I}$ 32'08	1°03'37
desc. node	6040 Jun 28 15:16	14° $\mathfrak{S}$ 49'48		minimum elong	6041 Jun 11 22:22	24° $\mathfrak{I}$ 27'52	1°02'48
inferior conj	6040 Jun 30 20:53	13° $\mathfrak{S}$ 25'45	-0°40'18	min. Earth dist.	6041 Jun 15 03:13	22° $\mathfrak{I}$ 04'18	0.57426 AU

































































































































desc. node	6041 Jun 15 12:16	21° $\Pi$ 48'15	morning rise	6042 May 31 21:50	0° $\Pi$ 38'09	
morning rise	6041 Jun 19 17:12	19° $\Pi$ 18'30	desc. node	6042 Jun 02 09:18	29° $\mathcal{B}$ 51'59	
direct	6041 Jun 25 08:54	17° $\Pi$ 59'11		6042 Jun 02 02:27	30° $\mathcal{R}$ $\mathcal{B}$	
morning max el	6041 Jul 09 17:54	25° $\Pi$ 32'46 26°31'46	direct	6042 Jun 07 06:59	28° $\mathcal{B}$ 44'52	
	6041 Jul 13 21:46	0° $\mathcal{G}$		6042 Jun 12 16:30	0° $\Pi$	
	6041 Aug 02 04:03	0° $\Omega$	morning max el	6042 Jun 21 16:00	6° $\Pi$ 36'42 27°31'07	
asc. node	6041 Aug 06 15:01	8° $\Omega$ 56'49		6042 Jul 09 04:52	0° $\mathcal{G}$	
morning set	6041 Aug 07 19:47	11° $\Omega$ 27'40	morning set	6042 Jul 23 03:18	26° $\mathcal{G}$ 02'42	
			asc. node	6042 Jul 24 12:02	28° $\mathcal{G}$ 55'05	
superior conj	6041 Aug 14 18:45	26° $\Omega$ 37'44 1°15'42		6042 Jul 25 00:13	0° $\Omega$	
minimum elong	6041 Aug 14 16:28	26° $\Omega$ 25'07 1°15'21	max. Earth dist.	6042 Jul 29 14:39	10° $\Omega$ 01'23 1.31853 AU	
max. Earth dist.	6041 Aug 15 03:43	27° $\Omega$ 27'20 1.31974 AU				
	6041 Aug 16 07:23	0° $\mathcal{M}$	superior conj	6042 Jul 30 06:26	11° $\Omega$ 28'33 0°56'45	
evening rise	6041 Aug 21 16:06	11° $\mathcal{M}$ 35'43	minimum elong	6042 Jul 30 04:19	11° $\Omega$ 16'51 0°56'20	
	6041 Aug 31 02:24	0° $\mathcal{L}$	evening rise	6042 Aug 06 01:15	26° $\Omega$ 18'37	
desc. node	6041 Sep 11 11:31	17° $\mathcal{L}$ 59'54		6042 Aug 07 19:19	0° $\mathcal{M}$	
evening max el	6041 Sep 21 09:42	29° $\mathcal{L}$ 35'28 26°59'13		6042 Aug 24 22:11	0° $\mathcal{L}$	
	6041 Sep 21 20:12	0° $\mathcal{M}$	desc. node	6042 Aug 29 08:33	5° $\mathcal{L}$ 45'18	
retrograde	6041 Oct 05 06:55	6° $\mathcal{M}$ 46'10	evening max el	6042 Sep 03 07:26	11° $\mathcal{L}$ 05'10 25°59'22	
evening set	6041 Oct 12 06:58	4° $\mathcal{M}$ 37'37	retrograde	6042 Sep 17 06:27	18° $\mathcal{L}$ 11'38	
min. Earth dist.	6041 Oct 16 00:00	1° $\mathcal{M}$ 58'10 0.60736 AU	evening set	6042 Sep 23 14:43	16° $\mathcal{L}$ 35'16	
	6041 Oct 18 08:21	30° $\mathcal{R}$ $\mathcal{L}$	min. Earth dist.	6042 Sep 27 20:09	14° $\mathcal{L}$ 00'01 0.58657 AU	
inferior conj	6041 Oct 19 04:03	29° $\mathcal{L}$ 18'06 -4°14'25	inferior conj	6042 Oct 01 00:53	11° $\mathcal{L}$ 39'29 -5°02'25	
minimum elong	6041 Oct 19 10:39	29° $\mathcal{L}$ 04'10 4°12'42	minimum elong	6042 Oct 01 06:01	11° $\mathcal{L}$ 30'01 5°01'41	
morning rise	6041 Oct 26 16:26	24° $\mathcal{L}$ 29'45	morning rise	6042 Oct 08 23:37	7° $\mathcal{L}$ 13'56	
direct	6041 Oct 28 23:17	24° $\mathcal{L}$ 09'11	direct	6042 Oct 11 08:34	6° $\mathcal{L}$ 55'25	
asc. node	6041 Nov 02 14:19	25° $\mathcal{L}$ 37'32	morning max el	6042 Oct 19 13:27	10° $\mathcal{L}$ 52'31 18°34'29	
morning max el	6041 Nov 05 05:57	27° $\mathcal{L}$ 46'11 18°01'44	asc. node	6042 Oct 20 11:20	11° $\mathcal{L}$ 47'46	
	6041 Nov 07 06:54	0° $\mathcal{M}$		6042 Nov 01 05:04	0° $\mathcal{M}$	
morning set	6041 Nov 20 23:06	22° $\mathcal{M}$ 36'14	morning set	6042 Nov 04 16:49	6° $\mathcal{M}$ 40'31	
	6041 Nov 24 23:00	0° $\mathcal{X}$				
superior conj	6041 Nov 30 22:29	10° $\mathcal{X}$ 48'13 0°52'26	superior conj	6042 Nov 13 12:24	23° $\mathcal{M}$ 34'29 1°18'16	
minimum elong	6041 Dec 01 02:09	11° $\mathcal{X}$ 04'23 0°51'58	minimum elong	6042 Nov 13 15:54	23° $\mathcal{M}$ 50'47 1°17'55	
desc. node	6041 Dec 08 10:46	23° $\mathcal{X}$ 42'26		6042 Nov 17 00:17	0° $\mathcal{X}$	
max. Earth dist.	6041 Dec 08 13:41	23° $\mathcal{X}$ 54'37 1.42043 AU	max. Earth dist.	6042 Nov 20 20:31	6° $\mathcal{X}$ 49'30 1.40004 AU	
	6041 Dec 12 06:42	0° $\mathcal{Z}$	evening rise	6042 Nov 25 00:55	13° $\mathcal{X}$ 58'11	
evening rise	6041 Dec 14 04:45	3° $\mathcal{Z}$ 05'11	desc. node	6042 Nov 25 07:48	14° $\mathcal{X}$ 26'56	
	6042 Jan 01 02:08	0° $\approx$		6042 Dec 05 01:34	0° $\mathcal{Z}$	
evening max el	6042 Jan 16 07:19	19° $\approx$ 10'52 22°32'44	evening max el	6042 Dec 27 04:25	0° $\approx$	
retrograde	6042 Jan 26 03:06	25° $\approx$ 01'12	retrograde	6042 Dec 29 21:36	2° $\approx$ 51'58 23°52'48	
asc. node	6042 Jan 29 13:33	24° $\approx$ 00'03		6043 Jan 09 20:16	9° $\approx$ 18'47	
evening set	6042 Jan 30 19:13	23° $\approx$ 06'43	evening set	6043 Jan 15 00:49	7° $\approx$ 09'20	
inferior conj	6042 Feb 05 03:48	16° $\approx$ 43'58 2°03'16	asc. node	6043 Jan 16 10:35	5° $\approx$ 48'33	
minimum elong	6042 Feb 05 01:32	16° $\approx$ 51'48 2°02'33	inferior conj	6043 Jan 20 11:35	0° $\approx$ 42'34 1°19'12	
min. Earth dist.	6042 Feb 04 23:14	16° $\approx$ 59'47 0.68201 AU	minimum elong	6043 Jan 20 09:53	0° $\approx$ 48'23 1°18'34	
morning rise	6042 Feb 10 07:44	10° $\approx$ 34'38	min. Earth dist.	6043 Jan 19 19:54	1° $\approx$ 35'55 0.68032 AU	
direct	6042 Feb 14 22:20	8° $\approx$ 39'57		6043 Jan 21 00:08	30° $\mathcal{R}$ $\mathcal{Z}$	
morning max el	6042 Feb 24 02:07	14° $\approx$ 01'28 21°55'33	morning rise	6043 Jan 25 18:56	24° $\mathcal{Z}$ 38'23	
desc. node	6042 Mar 06 10:03	26° $\approx$ 35'48	direct	6043 Jan 29 19:47	23° $\mathcal{Z}$ 06'15	
	6042 Mar 08 21:11	0° $\mathcal{H}$	morning max el	6043 Feb 06 20:55	27° $\mathcal{Z}$ 42'37 20°36'31	
morning set	6042 Mar 28 19:28	0° $\mathcal{Y}$ 03'54		6043 Feb 09 00:19	0° $\approx$	
	6042 Mar 28 18:29	0° $\mathcal{Y}$	desc. node	6043 Feb 21 07:05	16° $\approx$ 24'11	
max. Earth dist.	6042 Apr 03 15:06	9° $\mathcal{Y}$ 35'11 1.41372 AU		6043 Mar 02 10:05	0° $\mathcal{H}$	
			morning set	6043 Mar 07 23:07	8° $\mathcal{H}$ 31'17	
superior conj	6042 Apr 11 08:06	22° $\mathcal{Y}$ 48'37 -1°59'18	max. Earth dist.	6043 Mar 16 20:28	22° $\mathcal{H}$ 35'43 1.43261 AU	
minimum elong	6042 Apr 11 12:43	23° $\mathcal{Y}$ 09'00 1°58'59		6043 Mar 21 09:14	0° $\mathcal{Y}$	
	6042 Apr 15 08:39	0° $\mathcal{B}$	superior conj	6043 Mar 23 10:26	3° $\mathcal{Y}$ 24'33 -2°09'44	
evening rise	6042 Apr 21 23:17	12° $\mathcal{B}$ 08'41	minimum elong	6043 Mar 23 11:20	3° $\mathcal{Y}$ 28'15 2°09'43	
asc. node	6042 Apr 27 12:46	22° $\mathcal{B}$ 18'39	evening rise	6043 Apr 04 15:04	24° $\mathcal{Y}$ 26'11	
	6042 May 02 02:06	0° $\Pi$		6043 Apr 07 18:49	0° $\mathcal{B}$	
evening max el	6042 May 08 04:55	7° $\Pi$ 58'21 18°13'34	asc. node	6043 Apr 14 09:48	11° $\mathcal{B}$ 16'10	
retrograde	6042 May 15 05:26	11° $\Pi$ 29'57	evening max el	6043 Apr 21 17:10	21° $\mathcal{B}$ 05'20 18°06'26	
evening set	6042 May 17 15:48	11° $\Pi$ 05'19	retrograde	6043 Apr 28 05:15	24° $\mathcal{B}$ 26'57	
inferior conj	6042 May 24 16:53	6° $\Pi$ 20'53 2°18'31	evening set	6043 Apr 30 22:34	23° $\mathcal{B}$ 51'07	
minimum elong	6042 May 24 20:15	6° $\Pi$ 13'28 2°17'34	inferior conj	6043 May 07 08:24	18° $\mathcal{B}$ 46'41 3°04'13	
min. Earth dist.	6042 May 28 02:24	3° $\Pi$ 22'56 0.59536 AU	minimum elong	6043 May 07 10:56	18° $\mathcal{B}$ 40'18 3°03'45	

min. Earth dist.	6043 May 10 09:22	15° <b>8</b> 43'36	0.61756 AU	min. Earth dist.	6044 Apr 22 01:19	28° <b>Y</b> 54'58	0.63810 AU
morning rise	6043 May 13 21:27	12° <b>8</b> 45'47		morning rise	6044 Apr 25 14:10	25° <b>Y</b> 30'21	
desc. node	6043 May 20 06:20	10° <b>8</b> 22'51		direct	6044 May 02 09:36	22° <b>Y</b> 47'37	
direct	6043 May 20 16:02	10° <b>8</b> 22'21		desc. node	6044 May 06 03:22	23° <b>Y</b> 30'31	
morning max el	6043 Jun 03 20:13	18° <b>8</b> 22'34	27°53'38		6044 May 15 09:41	0° <b>8</b>	
	6043 Jun 13 14:25	0° <b>II</b>		morning max el	6044 May 16 04:39	0° <b>8</b> 46'52	27°38'51
	6043 Jul 02 00:02	0° <b>☾</b>			6044 Jun 06 16:46	0° <b>II</b>	
morning set	6043 Jul 07 05:57	10° <b>☾</b> 20'37		morning set	6044 Jun 20 01:19	24° <b>II</b> 13'38	
asc. node	6043 Jul 11 09:04	19° <b>☾</b> 00'05			6044 Jun 22 21:53	0° <b>☾</b>	
max. Earth dist.	6043 Jul 12 23:10	22° <b>☾</b> 25'29	1.32171 AU	max. Earth dist.	6044 Jun 25 01:23	4° <b>☾</b> 27'33	1.32938 AU
				asc. node	6044 Jun 27 06:07	9° <b>☾</b> 07'00	
superior conj	6043 Jul 14 16:31	26° <b>☾</b> 10'43	0°33'45				
minimum elong	6043 Jul 14 15:02	26° <b>☾</b> 02'38	0°33'25	superior conj	6044 Jun 27 23:04	10° <b>☾</b> 37'44	0°07'18
	6043 Jul 16 10:20	0° <b>Ω</b>		minimum elong	6044 Jun 27 22:42	10° <b>☾</b> 35'48	0°07'12
evening rise	6043 Jul 21 12:38	11° <b>Ω</b> 05'07		behind sun begin	6044 Jun 27 17:53	10° <b>☾</b> 09'58	
	6043 Jul 31 02:51	0° <b>♍</b>		behind sun end	6044 Jun 28 03:32	11° <b>☾</b> 01'41	
evening max el	6043 Aug 15 22:11	21° <b>♍</b> 49'33	24°33'33	evening rise	6044 Jul 05 00:19	25° <b>☾</b> 48'31	
desc. node	6043 Aug 16 05:34	22° <b>♍</b> 07'06			6044 Jul 07 00:16	0° <b>Ω</b>	
retrograde	6043 Aug 29 18:38	28° <b>♍</b> 47'56			6044 Jul 25 08:54	0° <b>♍</b>	
evening set	6043 Sep 03 21:57	27° <b>♍</b> 48'59		evening max el	6044 Jul 27 10:36	2° <b>♍</b> 09'17	22°55'51
min. Earth dist.	6043 Sep 09 09:20	24° <b>♍</b> 59'23	0.56762 AU	desc. node	6044 Aug 02 02:35	6° <b>♍</b> 34'19	
inferior conj	6043 Sep 12 01:47	23° <b>♍</b> 16'27	-5°22'55	retrograde	6044 Aug 09 18:00	8° <b>♍</b> 47'58	
minimum elong	6043 Sep 12 01:54	23° <b>♍</b> 16'16	5°22'55	evening set	6044 Aug 13 08:57	8° <b>♍</b> 19'17	
morning rise	6043 Sep 20 08:10	19° <b>♍</b> 12'17		min. Earth dist.	6044 Aug 20 19:02	4° <b>♍</b> 59'52	0.55362 AU
direct	6043 Sep 22 23:20	18° <b>♍</b> 53'19		inferior conj	6044 Aug 22 07:29	4° <b>♍</b> 07'25	-4°58'38
morning max el	6043 Oct 02 11:05	23° <b>♍</b> 20'58	19°28'55	minimum elong	6044 Aug 22 00:55	4° <b>♍</b> 16'55	4°57'37
asc. node	6043 Oct 07 08:22	29° <b>♍</b> 04'07		morning rise	6044 Aug 30 19:01	0° <b>♍</b> 17'12	
	6043 Oct 08 00:10	0° <b>♊</b>			6044 Sep 01 11:32	30° <b>♊</b>	
morning set	6043 Oct 19 18:40	21° <b>♊</b> 07'19		direct	6044 Sep 02 19:44	29° <b>♊</b> 55'41	
	6043 Oct 24 04:32	0° <b>♌</b>			6044 Sep 04 03:31	0° <b>♍</b>	
superior conj	6043 Oct 27 18:41	7° <b>♌</b> 07'59	1°34'23	morning max el	6044 Sep 13 20:34	5° <b>♍</b> 04'10	20°45'19
minimum elong	6043 Oct 27 20:57	7° <b>♌</b> 19'04	1°34'14	asc. node	6044 Sep 23 05:25	17° <b>♍</b> 12'23	
max. Earth dist.	6043 Nov 03 01:36	19° <b>♌</b> 06'17	1.37882 AU		6044 Sep 30 05:03	0° <b>♊</b>	
evening rise	6043 Nov 06 19:34	25° <b>♌</b> 51'53		morning set	6044 Oct 03 01:54	5° <b>♊</b> 49'10	
	6043 Nov 09 04:34	0° <b>♌</b>					
desc. node	6043 Nov 12 04:49	5° <b>♌</b> 05'04		superior conj	6044 Oct 10 12:47	21° <b>♊</b> 16'07	1°41'56
	6043 Nov 28 15:29	0° <b>♍</b>		minimum elong	6044 Oct 10 13:33	21° <b>♊</b> 20'01	1°41'56
evening max el	6043 Dec 12 10:35	16° <b>♍</b> 36'53	25°09'29		6044 Oct 14 21:11	0° <b>♌</b>	
retrograde	6043 Dec 24 09:07	23° <b>♍</b> 31'02		max. Earth dist.	6044 Oct 15 09:59	1° <b>♌</b> 02'41	1.35911 AU
evening set	6043 Dec 30 02:58	21° <b>♍</b> 07'56		evening rise	6044 Oct 19 09:47	8° <b>♌</b> 39'02	
asc. node	6044 Jan 03 07:38	16° <b>♍</b> 30'52		desc. node	6044 Oct 29 01:50	25° <b>♌</b> 32'27	
min. Earth dist.	6044 Jan 03 14:27	16° <b>♍</b> 08'52	0.67500 AU		6044 Oct 31 20:22	0° <b>♌</b>	
inferior conj	6044 Jan 04 17:10	14° <b>♍</b> 41'47	0°28'11		6044 Nov 23 14:37	0° <b>♍</b>	
minimum elong	6044 Jan 04 16:28	14° <b>♍</b> 44'03	0°27'55	evening max el	6044 Nov 23 23:31	0° <b>♍</b> 21'42	26°15'28
morning rise	6044 Jan 10 06:12	8° <b>♍</b> 44'50		retrograde	6044 Dec 06 16:54	7° <b>♍</b> 32'42	
direct	6044 Jan 13 18:39	7° <b>♍</b> 33'30		evening set	6044 Dec 12 23:55	4° <b>♍</b> 58'54	
morning max el	6044 Jan 20 23:41	11° <b>♍</b> 35'13	19°30'46	min. Earth dist.	6044 Dec 17 04:34	0° <b>♍</b> 34'58	0.66609 AU
greatest brilliancy	6044 Feb 03 00:15	28° <b>♍</b> 47'32	-0.7m		6044 Dec 17 16:03	30° <b>♊</b>	
	6044 Feb 03 19:41	0° <b>♊</b>		inferior conj	6044 Dec 18 18:37	28° <b>♊</b> 38'20	-0°28'56
desc. node	6044 Feb 08 04:07	6° <b>♊</b> 34'17		minimum elong	6044 Dec 18 19:24	28° <b>♊</b> 35'56	0°28'34
morning set	6044 Feb 14 20:22	16° <b>♊</b> 48'54		asc. node	6044 Dec 20 04:40	26° <b>♊</b> 55'44	
	6044 Feb 23 07:55	0° <b>♋</b>		morning rise	6044 Dec 24 15:29	22° <b>♊</b> 51'04	
max. Earth dist.	6044 Feb 27 09:24	6° <b>♋</b> 23'43	1.44634 AU	direct	6044 Dec 27 17:13	21° <b>♊</b> 57'30	
				morning max el	6045 Jan 03 09:42	25° <b>♊</b> 36'29	18°40'39
superior conj	6044 Mar 02 11:32	12° <b>♋</b> 54'17	-2°03'03		6045 Jan 07 04:47	0° <b>♍</b>	
minimum elong	6044 Mar 02 05:56	12° <b>♋</b> 31'54	2°02'46	morning set	6045 Jan 24 11:51	26° <b>♍</b> 07'52	
	6044 Mar 12 22:57	0° <b>Y</b>		desc. node	6045 Jan 25 01:09	27° <b>♍</b> 00'17	
evening rise	6044 Mar 16 10:33	5° <b>Y</b> 48'57			6045 Jan 26 22:47	0° <b>♊</b>	
asc. node	6044 Mar 31 06:51	29° <b>Y</b> 40'24		max. Earth dist.	6045 Feb 09 03:29	20° <b>♊</b> 42'20	1.45325 AU
	6044 Mar 31 12:37	0° <b>8</b>					
evening max el	6044 Apr 04 06:08	4° <b>8</b> 26'37	18°18'04	superior conj	6045 Feb 09 18:07	21° <b>♊</b> 39'45	-1°36'26
retrograde	6044 Apr 10 15:59	7° <b>8</b> 52'36		minimum elong	6045 Feb 09 08:37	21° <b>♊</b> 02'28	1°35'30
evening set	6044 Apr 13 15:52	7° <b>8</b> 04'15			6045 Feb 15 01:24	0° <b>♋</b>	
inferior conj	6044 Apr 19 14:29	1° <b>8</b> 40'55	3°26'03	evening rise	6045 Feb 25 06:57	16° <b>♋</b> 15'13	
minimum elong	6044 Apr 19 15:30	1° <b>8</b> 38'02	3°25'58	greatest brilliancy	6045 Mar 05 01:13	28° <b>♋</b> 40'17	-0.9m
	6044 Apr 21 01:59	30° <b>♊</b>			6045 Mar 05 21:20	0° <b>Y</b>	
				asc. node	6045 Mar 18 03:54	17° <b>Y</b> 21'46	

evening max el	6045 Mar 18 17:11	17° $\Upsilon$ 56'23	18°47'43	retrograde	6046 Mar 09 07:00	5° $\Upsilon$ 41'04	
retrograde	6045 Mar 25 09:40	21° $\Upsilon$ 39'33		evening set	6046 Mar 12 21:12	4° $\Upsilon$ 25'33	
evening set	6045 Mar 28 16:18	20° $\Upsilon$ 37'54			6046 Mar 17 03:56	30° $\Re$ $\Re$	
inferior conj	6045 Apr 03 07:20	14° $\Upsilon$ 57'18	3°29'30	inferior conj	6046 Mar 18 07:37	28° $\Re$ 29'48	3°18'48
minimum elong	6045 Apr 03 06:53	14° $\Upsilon$ 58'40	3°29'29	minimum elong	6046 Mar 18 06:05	28° $\Re$ 34'52	3°18'35
min. Earth dist.	6045 Apr 05 02:34	12° $\Upsilon$ 43'41	0.65525 AU	min. Earth dist.	6046 Mar 19 11:54	26° $\Re$ 56'35	0.66818 AU
morning rise	6045 Apr 08 21:00	8° $\Upsilon$ 42'29		morning rise	6046 Mar 23 14:42	22° $\Re$ 14'04	
direct	6045 Apr 15 10:20	5° $\Upsilon$ 53'29		direct	6046 Mar 29 17:21	19° $\Re$ 30'45	
desc. node	6045 Apr 23 00:26	8° $\Upsilon$ 48'58		desc. node	6046 Apr 09 21:28	25° $\Re$ 44'55	
morning max el	6045 Apr 28 14:54	13° $\Upsilon$ 40'46	26°51'36	morning max el	6046 Apr 11 00:41	26° $\Re$ 52'02	25°40'14
	6045 May 11 19:46	0° $\Re$			6046 Apr 13 22:44	0° $\Upsilon$	
	6045 May 30 09:03	0° $\Pi$			6046 May 05 10:39	0° $\Re$	
morning set	6045 Jun 03 10:19	7° $\Pi$ 33'22		morning set	6046 May 17 04:54	20° $\Re$ 08'42	
max. Earth dist.	6045 Jun 07 17:55	16° $\Pi$ 00'58	1.34176 AU	max. Earth dist.	6046 May 20 23:09	27° $\Re$ 09'16	1.35870 AU
					6046 May 22 10:48	0° $\Pi$	
superior conj	6045 Jun 11 23:57	24° $\Pi$ 43'28	-0°21'47				
minimum elong	6045 Jun 12 01:08	24° $\Pi$ 49'37	0°21'34	superior conj	6046 May 26 16:33	8° $\Pi$ 21'12	-0°52'09
asc. node	6045 Jun 14 03:09	29° $\Pi$ 11'56		minimum elong	6046 May 26 19:31	8° $\Pi$ 36'05	0°51'38
	6045 Jun 14 12:16	0° $\Im$		asc. node	6046 Jun 01 00:10	19° $\Pi$ 11'08	
evening rise	6045 Jun 19 10:23	10° $\Im$ 22'55		evening rise	6046 Jun 03 16:46	24° $\Pi$ 42'13	
	6045 Jun 29 16:45	0° $\Omega$			6046 Jun 06 07:48	0° $\Im$	
evening max el	6045 Jul 09 04:55	12° $\Omega$ 37'48	21°22'08	evening max el	6046 Jun 21 11:18	23° $\Im$ 42'49	20°03'37
desc. node	6045 Jul 19 23:37	18° $\Omega$ 33'29		retrograde	6046 Jul 01 22:30	28° $\Im$ 50'48	
retrograde	6045 Jul 21 08:03	18° $\Omega$ 37'51		evening set	6046 Jul 03 20:11	28° $\Im$ 41'21	
evening set	6045 Jul 23 17:33	18° $\Omega$ 24'37		desc. node	6046 Jul 06 20:39	27° $\Im$ 50'52	
inferior conj	6045 Aug 02 01:19	14° $\Omega$ 25'39	-3°41'38	inferior conj	6046 Jul 12 21:18	24° $\Im$ 41'57	-1°48'34
minimum elong	6045 Aug 01 16:21	14° $\Omega$ 38'13	3°39'01	minimum elong	6046 Jul 12 16:15	24° $\Im$ 49'32	1°46'42
min. Earth dist.	6045 Aug 02 04:42	14° $\Omega$ 20'55	0.54759 AU	min. Earth dist.	6046 Jul 14 16:38	23° $\Im$ 37'03	0.55123 AU
morning rise	6045 Aug 10 16:01	10° $\Omega$ 32'15		morning rise	6046 Jul 21 10:41	20° $\Im$ 24'21	
direct	6045 Aug 14 04:46	10° $\Omega$ 05'21		direct	6046 Jul 25 16:31	19° $\Im$ 45'05	
morning max el	6045 Aug 26 18:26	16° $\Omega$ 01'57	22°20'21	morning max el	6046 Aug 08 09:04	26° $\Im$ 28'29	24°04'41
	6045 Sep 06 15:02	0° $\P$			6046 Aug 11 18:26	0° $\Omega$	
asc. node	6045 Sep 10 02:28	5° $\P$ 59'35		asc. node	6046 Aug 27 23:29	25° $\Omega$ 15'54	
morning set	6045 Sep 17 12:14	20° $\P$ 38'49			6046 Aug 30 08:22	0° $\P$	
	6045 Sep 21 21:48	0° $\underline{\Omega}$		morning set	6046 Sep 01 23:54	5° $\P$ 30'54	
superior conj	6045 Sep 24 15:01	5° $\underline{\Omega}$ 47'17	1°42'10	superior conj	6046 Sep 08 22:35	20° $\P$ 32'50	1°36'06
minimum elong	6045 Sep 24 14:26	5° $\underline{\Omega}$ 44'12	1°42'09	minimum elong	6046 Sep 08 21:00	20° $\P$ 24'14	1°36'00
max. Earth dist.	6045 Sep 28 01:36	12° $\underline{\Omega}$ 58'39	1.34262 AU	max. Earth dist.	6046 Sep 11 01:40	25° $\P$ 08'19	1.33029 AU
evening rise	6045 Oct 02 15:21	22° $\underline{\Omega}$ 08'16			6046 Sep 13 08:42	0° $\underline{\Omega}$	
	6045 Oct 06 19:08	0° $\P$		evening rise	6046 Sep 16 08:27	6° $\underline{\Omega}$ 09'27	
desc. node	6045 Oct 15 22:50	15° $\P$ 42'49			6046 Sep 29 09:06	0° $\P$	
	6045 Oct 25 14:44	0° $\Re$		desc. node	6046 Oct 02 19:51	5° $\P$ 28'37	
evening max el	6045 Nov 06 12:17	13° $\Re$ 57'25	27°03'30	evening max el	6046 Oct 19 23:53	27° $\P$ 13'23	27°26'37
retrograde	6045 Nov 19 19:05	21° $\Re$ 15'44			6046 Oct 23 04:25	0° $\Re$	
evening set	6045 Nov 26 13:33	18° $\Re$ 36'40		retrograde	6046 Nov 02 15:10	4° $\Re$ 31'31	
min. Earth dist.	6045 Nov 30 11:54	14° $\Re$ 47'49	0.65362 AU	evening set	6046 Nov 09 17:12	1° $\Re$ 55'41	
inferior conj	6045 Dec 02 13:46	12° $\Re$ 26'51	-1°31'00		6046 Nov 12 00:57	30° $\Re$ $\P$	
minimum elong	6045 Dec 02 16:24	12° $\Re$ 19'22	1°29'51	min. Earth dist.	6046 Nov 13 10:30	28° $\P$ 39'29	0.63774 AU
asc. node	6045 Dec 07 01:43	7° $\Re$ 58'36		inferior conj	6046 Nov 16 00:05	26° $\P$ 01'51	-2°35'58
morning rise	6045 Dec 08 20:22	6° $\Re$ 52'01		minimum elong	6046 Nov 16 04:45	25° $\P$ 49'55	2°34'11
direct	6045 Dec 11 13:23	6° $\Re$ 12'28		morning rise	6046 Nov 22 17:52	20° $\P$ 42'21	
morning max el	6045 Dec 18 00:39	9° $\Re$ 39'37	18°07'00	asc. node	6046 Nov 23 22:46	20° $\P$ 20'37	
	6046 Jan 01 03:22	0° $\Re$		direct	6046 Nov 25 04:32	20° $\P$ 12'58	
morning set	6046 Jan 05 08:32	6° $\Re$ 54'40		morning max el	6046 Dec 01 17:39	23° $\P$ 37'34	17°50'30
desc. node	6046 Jan 11 22:09	17° $\Re$ 36'41			6046 Dec 06 19:58	0° $\Re$	
				morning set	6046 Dec 18 08:23	19° $\Re$ 00'35	
superior conj	6046 Jan 19 23:46	0° $\approx$ 29'53	-0°54'34		6046 Dec 24 19:01	0° $\Re$	
minimum elong	6046 Jan 19 17:09	0° $\approx$ 03'44	0°53'41	desc. node	6046 Dec 29 19:07	8° $\Re$ 19'46	
	6046 Jan 19 16:13	0° $\approx$					
max. Earth dist.	6046 Jan 22 23:01	5° $\approx$ 10'29	1.45267 AU	superior conj	6046 Dec 30 23:16	10° $\Re$ 15'06	-0°08'19
evening rise	6046 Feb 05 05:52	25° $\approx$ 52'26		minimum elong	6046 Dec 30 22:21	10° $\Re$ 11'21	0°08'09
	6046 Feb 07 21:48	0° $\Re$		behind sun begin	6046 Dec 30 13:49	9° $\Re$ 36'29	
greatest brilliancy	6046 Feb 18 02:30	15° $\Re$ 36'57	-0.7m	behind sun end	6046 Dec 31 06:52	10° $\Re$ 46'09	
	6046 Feb 28 14:54	0° $\Upsilon$		max. Earth dist.	6047 Jan 05 17:05	19° $\Re$ 30'35	1.44486 AU
evening max el	6046 Mar 02 00:14	1° $\Upsilon$ 29'59	19°34'16		6047 Jan 12 09:21	0° $\approx$	
asc. node	6046 Mar 05 00:56	4° $\Upsilon$ 07'35		evening rise	6047 Jan 15 16:50	5° $\approx$ 06'53	

	6047 Feb 01 08:11	0°♄		max. Earth dist.	6047 Dec 19 07:52	3°♄28'51	1.43077 AU
evening max el	6047 Feb 13 02:02	15°♄04'58	20°35'30	evening rise	6047 Dec 26 07:31	14°♄38'18	
asc. node	6047 Feb 19 21:59	19°♄42'51			6048 Jan 05 09:32	0°♄	
retrograde	6047 Feb 21 05:21	19°♄51'54		evening max el	6048 Jan 26 22:34	28°♄42'08	21°47'53
evening set	6047 Feb 25 04:25	18°♄21'45			6048 Jan 28 06:36	0°♄	
inferior conj	6047 Mar 02 12:39	12°♄13'19	2°56'45	retrograde	6048 Feb 05 02:47	4°♄08'48	
minimum elong	6047 Mar 02 10:29	12°♄20'46	2°56'16	asc. node	6048 Feb 06 19:01	3°♄53'59	
min. Earth dist.	6047 Mar 03 03:17	11°♄23'12	0.67683 AU	evening set	6048 Feb 09 12:16	2°♄23'22	
morning rise	6047 Mar 07 16:19	5°♄58'51			6048 Feb 11 21:06	30°♄	
direct	6047 Mar 13 05:40	3°♄30'20		inferior conj	6048 Feb 14 20:16	26°♄05'04	2°25'14
morning max el	6047 Mar 24 09:20	10°♄10'33	24°14'41	minimum elong	6048 Feb 14 17:54	26°♄13'17	2°24'33
desc. node	6047 Mar 27 18:28	13°♄50'36		min. Earth dist.	6048 Feb 14 22:28	25°♄57'26	0.68132 AU
	6047 Apr 09 02:24	0°♄		morning rise	6048 Feb 19 23:22	19°♄53'31	
	6047 Apr 28 03:32	0°♄		direct	6048 Feb 24 22:23	17°♄45'35	
morning set	6047 Apr 29 03:37	1°♄44'00		morning max el	6048 Mar 05 19:10	23°♄35'31	22°45'13
max. Earth dist.	6047 May 02 19:49	8°♄13'35	1.37930 AU		6048 Mar 11 10:49	0°♄	
				desc. node	6048 Mar 13 15:27	2°♄46'41	
superior conj	6047 May 09 21:27	21°♄21'30	-1°21'51		6048 Apr 01 11:56	0°♄	
minimum elong	6047 May 10 02:03	21°♄43'33	1°21'11	morning set	6048 Apr 09 00:39	12°♄04'28	
	6047 May 14 08:02	0°♄		max. Earth dist.	6048 Apr 13 15:46	19°♄50'53	1.40150 AU
evening rise	6047 May 18 16:51	8°♄38'27			6048 Apr 19 10:58	0°♄	
asc. node	6047 May 18 21:11	8°♄59'52					
	6047 May 30 16:37	0°♄		superior conj	6048 Apr 21 10:31	3°♄34'33	-1°47'45
evening max el	6047 Jun 04 06:08	5°♄31'01	19°04'48	minimum elong	6048 Apr 21 15:45	3°♄58'22	1°47'15
retrograde	6047 Jun 13 01:14	9°♄49'52		evening rise	6048 May 01 07:33	22°♄03'58	
evening set	6047 Jun 15 00:54	9°♄37'35		asc. node	6048 May 04 18:14	28°♄33'31	
inferior conj	6047 Jun 23 08:29	5°♄24'46	0°06'51		6048 May 05 12:54	0°♄	
minimum elong	6047 Jun 23 08:45	5°♄24'17	0°06'43	evening max el	6048 May 17 10:33	17°♄57'08	18°26'27
transit middle	6047 Jun 23 08:45	5°♄24'17	0°06'43	retrograde	6048 May 24 22:59	21°♄41'03	
transit begin	6047 Jun 23 05:19	5°♄30'11		evening set	6048 May 27 05:24	21°♄21'40	
transit end	6047 Jun 23 12:12	5°♄18'22		inferior conj	6048 Jun 03 16:58	16°♄48'54	1°39'11
desc. node	6047 Jun 23 17:42	5°♄08'53		minimum elong	6048 Jun 03 20:02	16°♄42'44	1°38'10
min. Earth dist.	6047 Jun 26 07:34	3°♄23'24	0.56393 AU	min. Earth dist.	6048 Jun 07 02:51	14°♄05'30	0.58300 AU
morning rise	6047 Jul 01 13:23	0°♄31'40		desc. node	6048 Jun 09 14:43	12°♄20'20	
	6047 Jul 03 02:49	30°♄		morning rise	6048 Jun 11 07:27	11°♄21'58	
direct	6047 Jul 06 17:03	29°♄29'25		direct	6048 Jun 17 07:38	9°♄48'16	
	6047 Jul 10 07:32	0°♄		morning max el	6048 Jul 01 16:53	17°♄30'04	27°01'08
morning max el	6047 Jul 20 22:43	6°♄48'24	25°43'37		6048 Jul 12 01:39	0°♄	
	6047 Aug 06 23:48	0°♄			6048 Jul 29 10:22	0°♄	
asc. node	6047 Aug 14 20:29	14°♄53'07		morning set	6048 Jul 31 20:38	5°♄01'40	
morning set	6047 Aug 17 11:13	20°♄20'04		asc. node	6048 Jul 31 17:30	4°♄45'14	
	6047 Aug 21 22:13	0°♄					
superior conj	6047 Aug 24 09:13	5°♄25'01	1°24'34	superior conj	6048 Aug 07 21:01	20°♄17'49	1°08'11
minimum elong	6047 Aug 24 07:04	5°♄13'08	1°24'18	minimum elong	6048 Aug 07 18:45	20°♄05'15	1°07'47
max. Earth dist.	6047 Aug 25 08:35	7°♄33'32	1.32235 AU	max. Earth dist.	6048 Aug 07 19:17	20°♄08'10	1.31874 AU
evening rise	6047 Aug 31 09:50	20°♄32'59			6048 Aug 12 06:51	0°♄	
	6047 Sep 05 02:48	0°♄		evening rise	6048 Aug 14 16:49	5°♄10'57	
desc. node	6047 Sep 19 16:53	24°♄39'35			6048 Aug 27 19:01	0°♄	
	6047 Sep 23 13:53	0°♄		desc. node	6048 Sep 05 13:56	13°♄01'31	
evening max el	6047 Oct 02 08:16	9°♄57'06	27°19'01	evening max el	6048 Sep 13 10:39	21°♄56'03	26°37'39
retrograde	6047 Oct 16 04:13	17°♄10'29		retrograde	6048 Sep 27 08:44	29°♄04'07	
evening set	6047 Oct 23 07:25	14°♄48'56		evening set	6048 Oct 04 03:39	27°♄08'22	
min. Earth dist.	6047 Oct 26 22:50	11°♄59'02	0.61896 AU	min. Earth dist.	6048 Oct 08 00:25	24°♄32'50	0.59845 AU
inferior conj	6047 Oct 29 22:36	9°♄15'52	-3°40'13	inferior conj	6048 Oct 11 05:48	21°♄59'13	-4°37'11
minimum elong	6047 Oct 30 04:52	9°♄01'36	3°38'15	minimum elong	6048 Oct 11 12:10	21°♄46'31	4°35'48
morning rise	6047 Nov 06 04:15	4°♄14'58		morning rise	6048 Oct 18 22:48	17°♄20'06	
direct	6047 Nov 08 11:30	3°♄52'04		direct	6048 Oct 21 06:09	17°♄00'37	
asc. node	6047 Nov 10 19:47	4°♄16'39		asc. node	6048 Oct 27 16:49	19°♄41'29	
morning max el	6047 Nov 15 09:34	7°♄22'25	17°52'08	morning max el	6048 Oct 28 21:04	20°♄45'02	18°13'09
	6047 Nov 30 01:05	0°♄			6048 Nov 04 20:37	0°♄	
morning set	6047 Dec 01 05:05	2°♄06'17		morning set	6048 Nov 13 16:29	15°♄53'06	
					6048 Nov 21 05:14	0°♄	
superior conj	6047 Dec 12 00:49	21°♄16'22	0°32'53	superior conj	6048 Nov 23 02:52	3°♄28'10	1°04'38
minimum elong	6047 Dec 12 03:38	21°♄28'27	0°32'31	minimum elong	6048 Nov 23 06:39	3°♄45'18	1°04'11
desc. node	6047 Dec 16 16:08	29°♄06'23		max. Earth dist.	6048 Nov 30 18:02	16°♄51'06	1.41202 AU
	6047 Dec 17 05:04	0°♄		desc. node	6048 Dec 02 13:09	19°♄52'29	



evening rise	6048 Dec 05 14:58	24°  56'44			6049 Nov 13 06:41	0° 	
	6048 Dec 08 18:28	0° 		evening rise	6049 Nov 16 20:51	6°  15'43	
	6048 Dec 29 06:09	0° 		desc. node	6049 Nov 19 10:12	10°  34'48	
evening max el	6049 Jan 08 14:40	12°  21'28	23°06'45		6049 Dec 01 19:21	0° 	
retrograde	6049 Jan 18 21:46	18°  27'26		evening max el	6049 Dec 22 04:04	26°  03'54	24°26'09
evening set	6049 Jan 23 19:08	16°  26'24			6049 Dec 26 17:07	0° 	
asc. node	6049 Jan 23 16:04	16°  32'46		retrograde	6050 Jan 02 13:13	2°  43'38	
inferior conj	6049 Jan 29 04:31	10°  01'40	1°45'29	evening set	6050 Jan 07 23:30	0° 	
minimum elong	6049 Jan 29 02:25	10°  08'51	1°44'46		6050 Jan 08 12:00	30° 	
min. Earth dist.	6049 Jan 28 19:09	10°  33'55	0.68182 AU	asc. node	6050 Jan 10 13:06	27°  34'46	
morning rise	6049 Feb 03 09:38	3°  54'31		min. Earth dist.	6050 Jan 12 15:07	25°  09'10	0.67853 AU
direct	6049 Feb 07 18:20	2°  09'27		inferior conj	6050 Jan 13 11:34	24°  00'40	0°58'21
morning max el	6049 Feb 16 09:55	7°  10'04	21°20'33	minimum elong	6050 Jan 13 10:14	24°  05'09	0°57'52
desc. node	6049 Feb 28 12:28	22°  18'44		morning rise	6050 Jan 18 21:06	17°  35'33	
	6049 Mar 05 20:56	0° 		direct	6050 Jan 22 16:27	16°  36'45	
morning set	6049 Mar 19 17:30	21°  06'13		morning max el	6050 Jan 30 08:12	20°  56'47	20°06'48
	6049 Mar 25 06:39	0° 			6050 Feb 06 19:54	0° 	
max. Earth dist.	6049 Mar 26 17:27	2°  09'22'23	1.42237 AU	desc. node	6050 Feb 15 09:29	12° 	
				morning set	6050 Feb 26 15:26	29°  20'53	
superior conj	6049 Apr 03 02:47	14°  09'48'22	-2°05'27		6050 Feb 27 01:34	0° 	
minimum elong	6049 Apr 03 06:16	15°  03'23	2°05'19	max. Earth dist.	6050 Mar 09 02:26	15°  04'41	1.43922 AU
	6049 Apr 11 17:06	0° 					
evening rise	6049 Apr 14 08:59	4°  49'09		superior conj	6050 Mar 14 18:14	24°  05'09	-2°09'16
asc. node	6049 Apr 21 15:17	17°  46'10		minimum elong	6050 Mar 14 16:31	24°  04'05	2°09'15
	6049 Apr 30 00:58	0° 			6050 Mar 17 20:06	0° 	
evening max el	6049 Apr 30 20:52	0°  51'28	18°08'06	evening rise	6050 Mar 27 16:42	16°  04'42	
retrograde	6049 May 07 14:42	4°  17'02			6050 Apr 04 10:32	0° 	
evening set	6049 May 10 04:08	3°  14'46		asc. node	6050 Apr 08 12:20	6°  30'44	
	6049 May 15 17:42	30°  08'08		evening max el	6050 Apr 14 09:43	14°  05'09	18°09'02
inferior conj	6049 May 16 22:12	28°  54'20	2°41'11	retrograde	6050 Apr 20 19:51	17°  08'27'21	
minimum elong	6049 May 17 01:21	28°  46'55	2°40'26	evening set	6050 Apr 23 15:52	16°  08'46'26	
min. Earth dist.	6049 May 20 04:54	25°  51'29	0.60490 AU	inferior conj	6050 Apr 29 20:27	11°  08'33'38	3°16'02
morning rise	6049 May 23 20:11	23°  02'39		minimum elong	6050 Apr 29 22:22	11°  08'28'31	3°15'47
desc. node	6049 May 27 11:45	21°  02'10'3		min. Earth dist.	6050 May 02 15:45	8°  35'23	0.62661 AU
direct	6049 May 30 10:18	20°  05'59		morning rise	6050 May 06 03:24	5°  27'25	
morning max el	6049 Jun 13 17:47	28°  51'45	27°45'28	direct	6050 May 12 23:07	2°  54'19	
	6049 Jun 14 20:39	0° 		desc. node	6050 May 14 08:48	3°  00'20	
	6049 Jul 05 22:26	0° 		morning max el	6050 May 27 00:22	10°  05'55'55	27°51'46
morning set	6049 Jul 16 02:22	19°  30'30			6050 Jun 10 23:38	0° 	
asc. node	6049 Jul 18 14:33	24°  04'7'07			6050 Jun 28 06:23	0° 	
	6049 Jul 21 00:31	0° 		morning set	6050 Jun 30 02:15	3°  03'03	
max. Earth dist.	6049 Jul 22 05:54	2°  40'47	1.31937 AU	asc. node	6050 Jul 05 11:34	14°  05'53'25	
				max. Earth dist.	6050 Jul 05 12:18	14°  05'57'21	1.32438 AU
superior conj	6049 Jul 23 08:15	5°  05'45	0°47'28				
minimum elong	6049 Jul 23 06:21	4°  05'51'14	0°47'04	superior conj	6050 Jul 07 17:03	19°  04'2'04	0°22'55
evening rise	6049 Jul 30 03:11	19°  05'6'30		minimum elong	6050 Jul 07 16:00	19°  03'6'19	0°22'39
	6049 Aug 04 00:18	0° 			6050 Jul 12 10:27	0° 	
desc. node	6049 Aug 23 10:58	0°  15'00		evening rise	6050 Jul 14 14:54	4°  04'2'15	
	6049 Aug 23 05:33	0° 			6050 Jul 28 01:45	0° 	
evening max el	6049 Aug 26 05:09	3°  05'10	25°25'19	evening max el	6050 Aug 07 17:44	13°  03'4'23	23°52'24
retrograde	6049 Sep 09 03:24	10°  08'46		desc. node	6050 Aug 10 08:01	15°  03'52'13	
evening set	6049 Sep 15 01:13	8°  04'8'01		retrograde	6050 Aug 21 10:34	20°  03'27'22	
min. Earth dist.	6049 Sep 19 16:53	6°  09'14	0.57811 AU	evening set	6050 Aug 25 22:35	19°  03'42'44	
inferior conj	6049 Sep 22 18:24	4°  02'39	-5°15'33	min. Earth dist.	6050 Sep 01 04:03	16°  03'42'02	0.56081 AU
minimum elong	6049 Sep 22 21:51	3°  05'6'41	5°15'14	inferior conj	6050 Sep 03 10:40	15°  03'19'04	-5°18'58
	6049 Sep 30 02:04	30°  08'00'00		minimum elong	6050 Sep 03 07:51	15°  03'23'22	5°18'48
morning rise	6049 Sep 30 20:46	29°  04'6'54		morning rise	6050 Sep 11 19:33	11°  03'22'40	
direct	6049 Oct 03 08:04	29°  04'28'22		direct	6050 Sep 14 14:17	11°  03'03'02	
	6049 Oct 06 11:13	0° 		morning max el	6050 Sep 24 17:32	15°  03'46'47	19°58'53
morning max el	6049 Oct 12 00:47	3°  03'36'37	18°55'01	asc. node	6050 Oct 01 10:53	24°  03'01'41	
asc. node	6049 Oct 14 13:51	6°  02'21'52			6050 Oct 05 02:47	0° 	
morning set	6049 Oct 28 14:04	0° 		morning set	6050 Oct 12 18:28	14°  03'41'52	
	6049 Oct 28 12:22	0° 			6050 Oct 20 06:58	0° 	
superior conj	6049 Nov 06 00:25	16°  03'36'40	1°26'14	superior conj	6050 Oct 20 12:13	0° 	
minimum elong	6049 Nov 06 03:27	16°  03'51'11	1°25'57	minimum elong	6050 Oct 20 13:51	0° 	
max. Earth dist.	6049 Nov 12 23:54	29°  03'29'48	1.39093 AU	max. Earth dist.	6050 Oct 26 05:16	11°  03'32'57	1.37006 AU

evening rise	6050 Oct 30 00:14	18° $\mathbb{M}$ 32'47		asc. node	6051 Sep 18 07:55	12° $\mathbb{M}$ 27'30	
	6050 Nov 05 14:40	0° $\mathbb{M}$		morning set	6051 Sep 27 03:12	29° $\mathbb{M}$ 27'00	
desc. node	6050 Nov 06 07:13	1° $\mathbb{M}$ 08'41			6051 Sep 27 09:33	0° $\mathbb{M}$	
	6050 Nov 26 00:39	0° $\mathbb{M}$					
evening max el	6050 Dec 04 16:43	9° $\mathbb{M}$ 48'24	25°39'17	superior conj	6051 Oct 04 10:07	14° $\mathbb{M}$ 44'46	1°42'51
retrograde	6050 Dec 17 00:11	16° $\mathbb{M}$ 51'56		minimum elong	6051 Oct 04 10:17	14° $\mathbb{M}$ 45'35	1°42'52
evening set	6050 Dec 22 23:41	14° $\mathbb{M}$ 23'36		max. Earth dist.	6051 Oct 08 16:03	23° $\mathbb{M}$ 24'53	1.35163 AU
min. Earth dist.	6050 Dec 27 08:05	9° $\mathbb{M}$ 39'25	0.67158 AU		6051 Oct 12 00:44	0° $\mathbb{M}$	
asc. node	6050 Dec 28 10:09	8° $\mathbb{M}$ 16'25		evening rise	6051 Oct 12 21:28	1° $\mathbb{M}$ 38'56	
inferior conj	6050 Dec 28 15:38	7° $\mathbb{M}$ 58'55	0°04'38	desc. node	6051 Oct 24 04:14	21° $\mathbb{M}$ 29'14	
minimum elong	6050 Dec 28 15:30	7° $\mathbb{M}$ 59'18	0°04'37		6051 Oct 29 14:59	0° $\mathbb{M}$	
transit middle	6050 Dec 28 15:30	7° $\mathbb{M}$ 59'18	0°04'37	evening max el	6051 Nov 17 05:39	23° $\mathbb{M}$ 30'11	26°38'40
transit begin	6050 Dec 28 12:49	8° $\mathbb{M}$ 07'55			6051 Nov 26 10:18	0° $\mathbb{M}$	
transit end	6050 Dec 28 18:12	7° $\mathbb{M}$ 50'42		retrograde	6051 Nov 30 05:45	0° $\mathbb{M}$ 45'45	
morning rise	6051 Jan 03 07:45	2° $\mathbb{M}$ 05'48			6051 Dec 03 19:10	30° $\mathbb{R}$ $\mathbb{M}$	
direct	6051 Jan 06 15:18	1° $\mathbb{M}$ 02'39		evening set	6051 Dec 06 17:46	28° $\mathbb{M}$ 09'08	
morning max el	6051 Jan 13 14:17	4° $\mathbb{M}$ 53'41	19°07'29	min. Earth dist.	6051 Dec 10 19:43	23° $\mathbb{M}$ 59'55	0.66112 AU
greatest brilliancy	6051 Jan 27 09:14	23° $\mathbb{M}$ 31'34	-0.8m	inferior conj	6051 Dec 12 14:40	21° $\mathbb{M}$ 52'17	-0°54'46
	6051 Jan 31 14:35	0° $\mathbb{M}$		minimum elong	6051 Dec 12 16:12	21° $\mathbb{M}$ 47'43	0°54'05
desc. node	6051 Feb 02 06:31	2° $\mathbb{M}$ 34'17		asc. node	6051 Dec 15 07:12	18° $\mathbb{M}$ 50'17	
morning set	6051 Feb 05 17:53	7° $\mathbb{M}$ 57'29		morning rise	6051 Dec 18 15:26	16° $\mathbb{M}$ 09'41	
max. Earth dist.	6051 Feb 19 17:25	29° $\mathbb{M}$ 47'13	1.45008 AU	direct	6051 Dec 21 13:09	15° $\mathbb{M}$ 22'35	
	6051 Feb 19 20:40	0° $\mathbb{M}$		morning max el	6051 Dec 28 02:37	18° $\mathbb{M}$ 55'39	18°24'13
					6052 Jan 05 13:36	0° $\mathbb{M}$	
superior conj	6051 Feb 22 10:00	4° $\mathbb{M}$ 02'00	-1°54'08	morning set	6052 Jan 16 21:19	17° $\mathbb{M}$ 52'23	
minimum elong	6051 Feb 22 02:01	3° $\mathbb{M}$ 30'28	1°53'34	desc. node	6052 Jan 20 03:30	23° $\mathbb{M}$ 04'43	
evening rise	6051 Mar 09 02:34	27° $\mathbb{M}$ 43'32			6052 Jan 24 12:02	0° $\mathbb{M}$	
	6051 Mar 10 11:47	0° $\mathbb{M}$					
asc. node	6051 Mar 26 09:23	24° $\mathbb{M}$ 38'36		superior conj	6052 Feb 01 13:34	12° $\mathbb{M}$ 42'02	-1°19'58
evening max el	6051 Mar 28 22:11	27° $\mathbb{M}$ 31'14	18°28'32	minimum elong	6052 Feb 01 04:32	12° $\mathbb{M}$ 06'36	1°18'56
	6051 Mar 31 23:30	0° $\mathbb{M}$		max. Earth dist.	6052 Feb 02 12:06	14° $\mathbb{M}$ 10'18	1.45387 AU
retrograde	6051 Apr 04 09:59	1° $\mathbb{M}$ 03'13			6052 Feb 12 14:33	0° $\mathbb{M}$	
evening set	6051 Apr 07 12:35	0° $\mathbb{M}$ 09'29		evening rise	6052 Feb 17 13:05	7° $\mathbb{M}$ 45'59	
	6051 Apr 07 18:59	30° $\mathbb{R}$ $\mathbb{M}$		greatest brilliancy	6052 Feb 27 17:31	23° $\mathbb{M}$ 45'28	-0.8m
inferior conj	6051 Apr 13 07:36	24° $\mathbb{M}$ 38'49	3°29'28		6052 Mar 02 20:05	0° $\mathbb{M}$	
minimum elong	6051 Apr 13 07:58	24° $\mathbb{M}$ 37'44	3°29'26	evening max el	6052 Mar 11 07:48	11° $\mathbb{M}$ 03'10	19°05'39
min. Earth dist.	6051 Apr 15 11:56	22° $\mathbb{M}$ 04'50	0.64585 AU	asc. node	6052 Mar 12 06:26	11° $\mathbb{M}$ 57'59	
morning rise	6051 Apr 19 02:34	18° $\mathbb{M}$ 25'44		retrograde	6052 Mar 18 05:26	14° $\mathbb{M}$ 56'43	
direct	6051 Apr 25 20:09	15° $\mathbb{M}$ 38'24		evening set	6052 Mar 21 15:11	13° $\mathbb{M}$ 49'17	
desc. node	6051 May 01 05:49	17° $\mathbb{M}$ 08'02		inferior conj	6052 Mar 27 03:56	8° $\mathbb{M}$ 02'16	3°26'29
morning max el	6051 May 09 09:58	23° $\mathbb{M}$ 35'00	27°22'13	minimum elong	6052 Mar 27 02:59	8° $\mathbb{M}$ 05'18	3°26'24
	6051 May 15 03:19	0° $\mathbb{M}$		min. Earth dist.	6052 Mar 28 16:45	6° $\mathbb{M}$ 05'03	0.66130 AU
	6051 Jun 04 07:38	0° $\mathbb{M}$		morning rise	6052 Apr 01 14:25	1° $\mathbb{M}$ 46'55	
morning set	6051 Jun 13 17:40	17° $\mathbb{M}$ 19'40			6052 Apr 04 02:12	30° $\mathbb{R}$ $\mathbb{M}$	
max. Earth dist.	6051 Jun 18 10:34	26° $\mathbb{M}$ 47'04	1.33405 AU	direct	6052 Apr 07 23:49	28° $\mathbb{M}$ 58'45	
	6051 Jun 19 23:43	0° $\mathbb{M}$			6052 Apr 12 05:28	0° $\mathbb{M}$	
				desc. node	6052 Apr 17 02:49	3° $\mathbb{M}$ 11'18	
superior conj	6051 Jun 21 21:30	4° $\mathbb{M}$ 01'14	-0°04'48	morning max el	6052 Apr 20 19:54	6° $\mathbb{M}$ 36'31	26°23'35
minimum elong	6051 Jun 21 21:45	4° $\mathbb{M}$ 02'34	0°04'46		6052 May 08 21:32	0° $\mathbb{M}$	
behind sun begin	6051 Jun 21 16:29	3° $\mathbb{M}$ 34'37		morning set	6052 May 26 21:04	0° $\mathbb{M}$ 21'48	
behind sun end	6051 Jun 22 03:01	4° $\mathbb{M}$ 30'32			6052 May 26 16:25	0° $\mathbb{M}$	
asc. node	6051 Jun 22 08:37	5° $\mathbb{M}$ 00'17		max. Earth dist.	6052 May 30 21:59	8° $\mathbb{M}$ 06'55	1.34848 AU
evening rise	6051 Jun 29 02:08	19° $\mathbb{M}$ 22'35					
	6051 Jul 04 07:16	0° $\mathbb{M}$		superior conj	6052 Jun 04 19:14	17° $\mathbb{M}$ 56'06	-0°34'36
evening max el	6051 Jul 20 07:42	23° $\mathbb{M}$ 53'57	22°14'40	minimum elong	6052 Jun 04 21:09	18° $\mathbb{M}$ 05'58	0°34'14
desc. node	6051 Jul 28 05:02	29° $\mathbb{M}$ 20'01		asc. node	6052 Jun 08 05:39	25° $\mathbb{M}$ 03'14	
	6051 Jul 30 09:29	0° $\mathbb{M}$			6052 Jun 10 14:27	0° $\mathbb{M}$	
retrograde	6051 Aug 02 05:23	0° $\mathbb{M}$ 18'31		evening rise	6052 Jun 12 10:54	3° $\mathbb{M}$ 51'11	
evening set	6051 Aug 05 05:40	29° $\mathbb{M}$ 58'27			6052 Jun 27 06:23	0° $\mathbb{M}$	
	6051 Aug 05 02:46	30° $\mathbb{R}$ $\mathbb{M}$		evening max el	6052 Jul 01 06:54	4° $\mathbb{M}$ 36'17	20°46'27
min. Earth dist.	6051 Aug 13 13:46	26° $\mathbb{M}$ 21'54	0.54995 AU	retrograde	6052 Jul 12 17:29	10° $\mathbb{M}$ 14'07	
inferior conj	6051 Aug 14 09:58	25° $\mathbb{M}$ 53'26	-4°32'04	desc. node	6052 Jul 14 02:03	10° $\mathbb{M}$ 09'38	
minimum elong	6051 Aug 14 01:31	26° $\mathbb{M}$ 05'21	4°30'15	evening set	6052 Jul 14 19:57	10° $\mathbb{M}$ 03'29	
morning rise	6051 Aug 22 23:05	22° $\mathbb{M}$ 03'56		inferior conj	6052 Jul 24 02:49	6° $\mathbb{M}$ 06'35	-2°56'10
direct	6051 Aug 26 04:19	21° $\mathbb{M}$ 40'41		minimum elong	6052 Jul 23 18:56	6° $\mathbb{M}$ 17'48	2°53'32
morning max el	6051 Sep 06 21:48	27° $\mathbb{M}$ 09'52	21°23'47	min. Earth dist.	6052 Jul 25 00:12	5° $\mathbb{M}$ 36'09	0.54803 AU
	6051 Sep 09 15:45	0° $\mathbb{M}$		morning rise	6052 Aug 01 17:42	2° $\mathbb{M}$ 05'09	

direct	6052 Aug 05 13:21	1°♎33'52		direct	6053 Jul 17 05:35	11°♏11'35	
morning max el	6052 Aug 18 15:39	7°♎51'04	23°04'18	morning max el	6053 Jul 31 05:02	18°♏10'50	24°48'29
	6052 Sep 03 09:58	0°♎			6053 Aug 10 00:06	0°♎	
asc. node	6052 Sep 04 04:56	1°♎28'11		asc. node	6053 Aug 22 01:57	20°♎54'18	
morning set	6052 Sep 10 14:19	14°♎18'19		morning set	6053 Aug 26 02:04	29°♎10'00	
					6053 Aug 26 11:28	0°♎	
superior conj	6052 Sep 17 14:56	29°♎22'53	1°40'18	superior conj	6053 Sep 02 00:03	14°♎11'57	1°31'50
minimum elong	6052 Sep 17 13:52	29°♎17'13	1°40'16	minimum elong	6053 Sep 01 22:10	14°♎01'39	1°31'40
	6052 Sep 17 21:52	0°♎			6053 Sep 03 15:07	17°♎44'44	1.32640 AU
max. Earth dist.	6052 Sep 20 11:32	5°♎26'45	1.33690 AU	max. Earth dist.	6053 Sep 09 05:25	29°♎34'55	
evening rise	6052 Sep 25 08:26	15°♎23'16		evening rise	6053 Sep 09 10:20	0°♎	
	6052 Oct 03 03:49	0°♎			6053 Sep 26 05:40	0°♎	
desc. node	6052 Oct 10 01:15	11°♎30'18		desc. node	6053 Sep 26 22:17	1°♎02'53	
	6052 Oct 23 07:17	0°♎			6053 Oct 12 04:58	20°♎03'48	27°27'21
evening max el	6052 Oct 29 18:24	7°♎00'02	27°16'52	evening max el	6053 Oct 25 22:11	27°♎19'36	
retrograde	6052 Nov 12 05:16	14°♎18'13		retrograde	6053 Oct 25 22:11	27°♎19'36	
evening set	6052 Nov 19 03:30	11°♎39'43		evening set	6053 Nov 02 01:54	24°♎48'18	
min. Earth dist.	6052 Nov 22 23:38	8°♎05'02	0.64724 AU	min. Earth dist.	6053 Nov 05 17:49	21°♎44'36	0.63011 AU
inferior conj	6052 Nov 25 06:26	5°♎36'13	-1°58'21	inferior conj	6053 Nov 08 12:07	19°♎03'08	-3°03'36
minimum elong	6052 Nov 25 09:55	5°♎26'42	1°56'55	minimum elong	6053 Nov 08 17:33	18°♎49'52	3°01'39
asc. node	6052 Dec 01 04:13	0°♎23'37		morning rise	6053 Nov 15 10:56	13°♎51'15	
morning rise	6052 Dec 01 17:36	0°♎07'15		direct	6053 Nov 17 19:54	13°♎24'55	
	6052 Dec 02 00:29	30°♎		asc. node	6053 Nov 18 01:15	13°♎25'09	
direct	6052 Dec 04 07:42	29°♎32'21		morning max el	6053 Nov 24 11:43	16°♎50'33	17°48'58
	6052 Dec 06 15:00	0°♎			6053 Dec 03 20:11	0°♎	
morning max el	6052 Dec 10 18:46	2°♎57'16	17°57'50	morning set	6053 Dec 10 15:51	11°♎49'11	
morning set	6052 Dec 28 06:20	29°♎15'37			6053 Dec 21 04:51	0°♎	
	6052 Dec 28 16:57	0°♎					
desc. node	6053 Jan 06 00:30	13°♎44'26		superior conj	6053 Dec 22 11:15	2°♎07'08	0°10'10
				minimum elong	6053 Dec 22 12:17	2°♎11'26	0°10'04
superior conj	6053 Jan 11 00:58	21°♎50'28	-0°34'49	behind sun begin	6053 Dec 22 04:59	1°♎41'01	
minimum elong	6053 Jan 10 20:48	21°♎33'46	0°34'12	behind sun end	6053 Dec 22 19:35	2°♎41'48	
max. Earth dist.	6053 Jan 15 07:49	28°♎38'45	1.45022 AU	desc. node	6053 Dec 23 21:30	4°♎29'14	
	6053 Jan 16 04:26	0°♎		max. Earth dist.	6053 Dec 29 01:10	12°♎52'45	1.43957 AU
evening rise	6053 Jan 27 05:20	17°♎09'34		evening rise	6054 Jan 06 15:55	26°♎26'06	
	6053 Feb 04 14:56	0°♎			6054 Jan 08 23:35	0°♎	
greatest brilliancy	6053 Feb 10 15:26	9°♎00'38	-0.6m		6054 Jan 29 15:03	0°♎	
evening max el	6053 Feb 22 12:48	24°♎37'37	19°58'42	evening max el	6054 Feb 05 12:14	8°♎12'42	21°05'08
asc. node	6053 Feb 27 03:28	28°♎15'35		retrograde	6054 Feb 14 01:40	13°♎16'25	
retrograde	6053 Mar 02 03:24	29°♎02'42		asc. node	6054 Feb 14 00:30	13°♎16'25	
evening set	6053 Mar 05 21:19	27°♎40'50		evening set	6054 Feb 18 05:02	11°♎39'36	
inferior conj	6053 Mar 11 06:32	21°♎39'24	3°10'41	inferior conj	6054 Feb 23 12:56	5°♎26'21	2°44'27
minimum elong	6053 Mar 11 04:40	21°♎45'40	3°10'22	minimum elong	6054 Feb 23 10:37	5°♎34'20	2°43'52
min. Earth dist.	6053 Mar 12 04:47	20°♎24'39	0.67243 AU	min. Earth dist.	6054 Feb 23 22:02	4°♎54'51	0.67921 AU
morning rise	6053 Mar 16 11:49	15°♎24'15			6054 Feb 27 20:27	30°♎	
direct	6053 Mar 22 09:05	12°♎46'27		morning rise	6054 Feb 28 16:01	29°♎13'02	
morning max el	6053 Apr 03 05:02	19°♎50'59	25°05'00	direct	6054 Mar 05 23:14	26°♎53'05	
desc. node	6053 Apr 03 23:51	20°♎39'23			6054 Mar 13 01:02	0°♎	
	6053 Apr 11 21:03	0°♎		morning max el	6054 Mar 16 14:02	3°♎12'32	23°36'39
	6053 May 02 01:00	0°♎		desc. node	6054 Mar 21 20:51	9°♎08'13	
morning set	6053 May 09 07:53	12°♎32'57			6054 Apr 06 00:42	0°♎	
max. Earth dist.	6053 May 12 23:12	19°♎10'45	1.36718 AU	morning set	6054 Apr 20 20:26	23°♎38'13	
	6053 May 18 15:14	0°♎			6054 Apr 24 12:55	0°♎	
				max. Earth dist.	6054 Apr 24 19:00	0°♎26'43	1.38867 AU
superior conj	6053 May 19 07:19	1°♎18'57	-1°04'59	superior conj	6054 May 02 06:04	14°♎00'22	-1°33'31
minimum elong	6053 May 19 11:02	1°♎37'15	1°04'22	minimum elong	6054 May 02 11:08	14°♎24'07	1°32'53
asc. node	6053 May 26 02:40	14°♎58'28			6054 May 10 13:41	0°♎	
evening rise	6053 May 27 14:57	18°♎01'35		evening rise	6054 May 11 11:31	1°♎46'14	
	6053 Jun 02 18:44	0°♎		asc. node	6054 May 12 23:43	4°♎41'36	
evening max el	6053 Jun 13 18:44	15°♎59'20	19°35'59	evening max el	6054 May 27 18:03	28°♎04'43	18°46'00
retrograde	6053 Jun 23 11:57	20°♎45'15			6054 May 30 00:22	0°♎	
evening set	6053 Jun 25 09:34	20°♎35'07		retrograde	6054 Jun 04 22:58	2°♎07'15	
desc. node	6053 Jun 30 23:05	18°♎26'35		evening set	6054 Jun 07 01:06	1°♎52'29	
inferior conj	6053 Jul 04 03:58	16°♎30'50	-0°57'54		6054 Jun 11 09:10	30°♎	
minimum elong	6053 Jul 04 01:20	16°♎35'00	0°56'56	inferior conj	6054 Jun 15 00:04	27°♎31'22	0°49'34
min. Earth dist.	6053 Jul 06 12:54	15°♎01'13	0.55569 AU	minimum elong	6054 Jun 15 01:55	27°♎27'58	0°48'52
morning rise	6053 Jul 12 14:43	11°♎59'08					

desc. node	6054 Jun 17 20:08	25° $\Pi$ 26'34		min. Earth dist.	6055 May 31 03:47	6° $\Pi$ 18'27	0.59209 AU
min. Earth dist.	6054 Jun 18 05:36	25° $\Pi$ 09'48	0.57138 AU	morning rise	6055 Jun 04 01:09	3° $\Pi$ 34'30	
morning rise	6054 Jun 22 23:19	22° $\Pi$ 22'45		desc. node	6055 Jun 04 17:10	3° $\Pi$ 12'58	
direct	6054 Jun 28 11:55	21° $\Pi$ 08'05		direct	6055 Jun 10 08:15	1° $\Pi$ 46'09	
morning max el	6054 Jul 12 20:27	28° $\Pi$ 38'28	26°20'06	morning max el	6055 Jun 24 17:28	9° $\Pi$ 35'50	27°24'27
	6054 Jul 14 05:02	0° $\mathfrak{C}$			6055 Jul 10 09:22	0° $\mathfrak{C}$	
	6054 Aug 03 13:51	0° $\Omega$		morning set	6055 Jul 25 20:55	28° $\mathfrak{C}$ 33'55	
asc. node	6054 Aug 08 22:59	10° $\Omega$ 38'56		asc. node	6055 Jul 26 20:01	0° $\Omega$ 35'37	
morning set	6054 Aug 10 12:50	13° $\Omega$ 57'14			6055 Jul 26 13:17	0° $\Omega$	
superior conj	6054 Aug 17 11:27	29° $\Omega$ 05'37	1°18'12	superior conj	6055 Aug 01 23:14	13° $\Omega$ 57'00	0°59'55
minimum elong	6054 Aug 17 09:11	28° $\Omega$ 53'07	1°17'52	minimum elong	6055 Aug 01 21:04	13° $\Omega$ 44'59	0°59'30
	6054 Aug 17 21:18	0° $\mathfrak{M}$		max. Earth dist.	6055 Aug 01 11:03	12° $\Omega$ 49'37	1.31845 AU
max. Earth dist.	6054 Aug 18 00:07	0° $\mathfrak{M}$ 15'31	1.32028 AU	evening rise	6055 Aug 08 18:10	28° $\Omega$ 47'20	
evening rise	6054 Aug 24 09:31	14° $\mathfrak{M}$ 05'39			6055 Aug 09 07:53	0° $\mathfrak{M}$	
	6054 Sep 01 11:15	0° $\mathfrak{L}$			6055 Aug 25 21:30	0° $\mathfrak{L}$	
desc. node	6054 Sep 13 19:20	19° $\mathfrak{L}$ 55'13		desc. node	6055 Aug 31 16:23	7° $\mathfrak{L}$ 50'46	
	6054 Sep 21 23:34	0° $\mathfrak{M}$		evening max el	6055 Sep 06 09:55	14° $\mathfrak{L}$ 06'14	26°10'12
evening max el	6054 Sep 24 10:52	2° $\mathfrak{M}$ 28'50	27°05'22	retrograde	6055 Sep 20 08:54	21° $\mathfrak{L}$ 13'06	
retrograde	6054 Oct 08 07:54	9° $\mathfrak{M}$ 40'31		evening set	6055 Sep 26 20:15	19° $\mathfrak{L}$ 31'33	
evening set	6054 Oct 15 09:06	7° $\mathfrak{M}$ 28'08		min. Earth dist.	6055 Sep 30 22:59	16° $\mathfrak{L}$ 56'42	0.58961 AU
min. Earth dist.	6054 Oct 19 01:23	4° $\mathfrak{M}$ 46'26	0.61040 AU	inferior conj	6055 Oct 04 04:11	14° $\mathfrak{L}$ 32'15	-4°56'38
inferior conj	6054 Oct 22 04:32	2° $\mathfrak{M}$ 04'56	-4°05'50	minimum elong	6055 Oct 04 09:45	14° $\mathfrak{L}$ 21'45	4°55'42
minimum elong	6054 Oct 22 11:07	1° $\mathfrak{M}$ 50'45	4°04'00	morning rise	6055 Oct 12 01:30	10° $\mathfrak{L}$ 03'04	
	6054 Oct 24 16:56	30° $\mathfrak{R}$ $\mathfrak{L}$		direct	6055 Oct 14 09:52	9° $\mathfrak{L}$ 44'24	
morning rise	6054 Oct 29 15:13	27° $\mathfrak{L}$ 13'20		morning max el	6055 Oct 22 10:54	13° $\mathfrak{L}$ 38'05	18°28'16
direct	6054 Oct 31 22:01	26° $\mathfrak{L}$ 52'19		asc. node	6055 Oct 22 19:18	13° $\mathfrak{L}$ 58'41	
asc. node	6054 Nov 04 22:16	28° $\mathfrak{L}$ 00'08			6055 Nov 02 14:19	0° $\mathfrak{M}$	
	6054 Nov 07 14:43	0° $\mathfrak{M}$		morning set	6055 Nov 07 11:38	9° $\mathfrak{M}$ 13'43	
morning max el	6054 Nov 08 02:16	0° $\mathfrak{M}$ 27'22	17°58'37	superior conj	6055 Nov 16 10:47	26° $\mathfrak{M}$ 17'34	1°15'00
morning set	6054 Nov 23 19:24	25° $\mathfrak{M}$ 13'39		minimum elong	6055 Nov 16 14:24	26° $\mathfrak{M}$ 34'18	1°14'36
	6054 Nov 26 09:37	0° $\mathfrak{J}$			6055 Nov 18 11:13	0° $\mathfrak{J}$	
superior conj	6054 Dec 03 23:46	13° $\mathfrak{J}$ 39'54	0°47'36	max. Earth dist.	6055 Nov 23 21:17	9° $\mathfrak{J}$ 37'13	1.40318 AU
minimum elong	6054 Dec 04 03:17	13° $\mathfrak{J}$ 55'19	0°47'09	desc. node	6055 Nov 27 15:35	16° $\mathfrak{J}$ 00'55	
desc. node	6054 Dec 10 18:32	25° $\mathfrak{J}$ 15'52		evening rise	6055 Nov 28 05:15	16° $\mathfrak{J}$ 57'51	
max. Earth dist.	6054 Dec 11 13:40	26° $\mathfrak{J}$ 35'17	1.42322 AU		6055 Dec 06 08:31	0° $\mathfrak{Z}$	
	6054 Dec 13 15:29	0° $\mathfrak{Z}$			6055 Dec 27 21:17	0° $\mathfrak{A}$	
evening rise	6054 Dec 17 12:25	6° $\mathfrak{Z}$ 13'50		evening max el	6056 Jan 01 21:17	5° $\mathfrak{A}$ 30'28	23°40'56
	6055 Jan 02 06:00	0° $\mathfrak{A}$		retrograde	6056 Jan 12 16:00	11° $\mathfrak{A}$ 52'01	
evening max el	6055 Jan 19 06:32	21° $\mathfrak{A}$ 49'30	22°20'59	evening set	6056 Jan 17 18:38	9° $\mathfrak{A}$ 44'49	
retrograde	6055 Jan 28 22:20	27° $\mathfrak{A}$ 33'59		asc. node	6056 Jan 18 18:34	8° $\mathfrak{A}$ 49'26	
asc. node	6055 Jan 31 21:33	26° $\mathfrak{A}$ 48'06		min. Earth dist.	6056 Jan 22 14:59	4° $\mathfrak{A}$ 06'23	0.68084 AU
evening set	6055 Feb 02 12:39	25° $\mathfrak{A}$ 41'55		inferior conj	6056 Jan 23 05:01	3° $\mathfrak{A}$ 18'29	1°26'22
inferior conj	6055 Feb 07 21:02	19° $\mathfrak{A}$ 20'09	2°09'19	minimum elong	6056 Jan 23 03:11	3° $\mathfrak{A}$ 24'43	1°25'43
minimum elong	6055 Feb 07 18:44	19° $\mathfrak{A}$ 28'09	2°08'36		6056 Jan 25 17:38	30° $\mathfrak{R}$ $\mathfrak{Z}$	
min. Earth dist.	6055 Feb 07 18:13	19° $\mathfrak{A}$ 29'56	0.68194 AU	morning rise	6056 Jan 28 11:42	27° $\mathfrak{Z}$ 13'25	
morning rise	6055 Feb 13 00:40	13° $\mathfrak{A}$ 10'05		direct	6056 Feb 01 14:35	25° $\mathfrak{Z}$ 37'52	
direct	6055 Feb 17 17:25	11° $\mathfrak{A}$ 11'55			6056 Feb 09 11:02	0° $\mathfrak{A}$	
morning max el	6055 Feb 27 01:34	16° $\mathfrak{A}$ 40'52	22°08'09	morning max el	6056 Feb 09 19:13	0° $\mathfrak{A}$ 20'10	20°47'30
desc. node	6055 Mar 08 17:51	28° $\mathfrak{A}$ 20'38		desc. node	6056 Feb 23 14:53	18° $\mathfrak{A}$ 04'58	
	6055 Mar 09 23:11	0° $\mathfrak{H}$			6056 Mar 02 16:29	0° $\mathfrak{H}$	
	6055 Mar 30 02:29	0° $\mathfrak{Y}$		morning set	6056 Mar 10 11:56	11° $\mathfrak{H}$ 58'41	
morning set	6055 Apr 01 05:19	3° $\mathfrak{Y}$ 23'59		max. Earth dist.	6056 Mar 18 20:46	25° $\mathfrak{H}$ 16'36	1.43016 AU
max. Earth dist.	6055 Apr 06 16:21	12° $\mathfrak{Y}$ 23'24	1.41060 AU		6056 Mar 21 18:07	0° $\mathfrak{Y}$	
superior conj	6055 Apr 14 10:50	25° $\mathfrak{Y}$ 48'47	-1°56'35	superior conj	6056 Mar 25 16:55	6° $\mathfrak{Y}$ 34'46	-2°09'07
minimum elong	6055 Apr 14 15:42	26° $\mathfrak{Y}$ 10'28	1°56'14	minimum elong	6056 Mar 25 18:36	6° $\mathfrak{Y}$ 41'51	2°09'06
	6055 Apr 16 18:54	0° $\mathfrak{B}$		evening rise	6056 Apr 06 15:32	27° $\mathfrak{Y}$ 19'58	
evening rise	6055 Apr 24 21:06	14° $\mathfrak{B}$ 55'14			6056 Apr 08 03:33	0° $\mathfrak{B}$	
asc. node	6055 Apr 29 20:47	24° $\mathfrak{B}$ 06'48		asc. node	6056 Apr 15 17:50	13° $\mathfrak{B}$ 08'12	
	6055 May 03 05:46	0° $\mathfrak{H}$		evening max el	6056 Apr 23 13:17	23° $\mathfrak{B}$ 47'21	18°06'13
evening max el	6055 May 11 01:26	10° $\mathfrak{H}$ 43'42	18°16'20	retrograde	6056 Apr 30 02:26	27° $\mathfrak{B}$ 09'20	
retrograde	6055 May 18 04:39	14° $\mathfrak{H}$ 17'56		evening set	6056 May 02 18:48	26° $\mathfrak{B}$ 35'12	
evening set	6055 May 20 14:00	13° $\mathfrak{H}$ 54'45		inferior conj	6056 May 09 06:39	21° $\mathfrak{B}$ 33'34	2°58'55
inferior conj	6055 May 27 17:43	9° $\mathfrak{H}$ 13'29	2°09'04	minimum elong	6056 May 09 09:22	21° $\mathfrak{B}$ 26'48	2°58'23
minimum elong	6055 May 27 21:05	9° $\mathfrak{H}$ 06'15	2°08'05	min. Earth dist.	6056 May 12 09:18	18° $\mathfrak{B}$ 29'51	0.61437 AU

morning rise	6056 May 15 21:58	15°♄34'51		min. Earth dist.	6057 Apr 24 23:52	1°♄34'35	0.63524 AU
desc. node	6056 May 21 14:11	13°♄18'51			6057 Apr 26 12:37	30°♄	
direct	6056 May 22 15:44	13°♄15'28		morning rise	6057 Apr 28 12:17	28°♄14'32	
morning max el	6056 Jun 05 20:45	21°♄14'31	27°52'43	direct	6057 May 05 07:59	25°♄34'01	
	6056 Jun 13 11:08	0°♄		desc. node	6057 May 08 11:12	26°♄04'06	
	6056 Jul 02 10:17	0°♄			6057 May 15 06:41	0°♄	
morning set	6056 Jul 09 00:24	12°♄54'13		morning max el	6057 May 19 04:49	3°♄33'58	27°43'20
asc. node	6056 Jul 12 17:04	20°♄39'32			6057 Jun 07 23:02	0°♄	
max. Earth dist.	6056 Jul 14 20:11	25°♄15'38	1.32096 AU	morning set	6057 Jun 22 21:02	26°♄51'36	
					6057 Jun 24 10:26	0°♄	
superior conj	6056 Jul 16 09:39	28°♄40'20	0°37'30	max. Earth dist.	6057 Jun 27 23:43	7°♄22'20	1.32793 AU
minimum elong	6056 Jul 16 08:03	28°♄31'32	0°37'08	asc. node	6057 Jun 29 14:07	10°♄46'27	
	6056 Jul 17 00:10	0°♄					
evening rise	6056 Jul 23 05:20	13°♄33'21		superior conj	6057 Jun 30 16:51	13°♄09'59	0°11'31
	6056 Jul 31 10:38	0°♄		minimum elong	6057 Jun 30 16:18	13°♄06'58	0°11'22
desc. node	6056 Aug 17 13:25	24°♄26'53		behind sun begin	6057 Jun 30 12:32	12°♄46'42	
evening max el	6056 Aug 18 01:34	24°♄56'26	24°47'31	behind sun end	6057 Jun 30 20:04	13°♄27'15	
	6056 Aug 24 19:08	0°♄		evening rise	6057 Jul 07 17:05	28°♄17'42	
retrograde	6056 Aug 31 22:40	1°♄56'10			6057 Jul 08 12:25	0°♄	
evening set	6056 Sep 06 07:10	0°♄51'43			6057 Jul 25 20:20	0°♄	
	6056 Sep 08 05:18	30°♄		evening max el	6057 Jul 30 13:44	5°♄17'28	23°10'29
min. Earth dist.	6056 Sep 11 12:53	28°♄05'30	0.57019 AU	desc. node	6057 Aug 04 10:26	9°♄13'41	
inferior conj	6056 Sep 14 08:08	26°♄16'05	-5°22'21	retrograde	6057 Aug 12 23:58	12°♄00'34	
minimum elong	6056 Sep 14 09:13	26°♄14'19	5°22'20	evening set	6057 Aug 16 20:24	11°♄28'09	
morning rise	6056 Sep 22 13:33	22°♄09'02		min. Earth dist.	6057 Aug 23 22:43	8°♄14'05	0.55523 AU
direct	6056 Sep 25 03:41	21°♄50'11		inferior conj	6057 Aug 25 16:25	7°♄13'24	-5°05'46
morning max el	6056 Oct 04 10:10	26°♄12'27	19°19'25	minimum elong	6057 Aug 25 10:44	7°♄21'42	5°05'02
	6056 Oct 07 20:11	0°♄		morning rise	6057 Sep 03 03:20	3°♄22'13	
asc. node	6056 Oct 08 16:21	1°♄05'51		direct	6057 Sep 06 02:27	3°♄01'16	
morning set	6056 Oct 21 12:28	23°♄37'40		morning max el	6057 Sep 16 21:34	8°♄02'51	20°32'38
	6056 Oct 24 16:50	0°♄		asc. node	6057 Sep 25 13:23	19°♄07'02	
					6057 Oct 01 15:42	0°♄	
superior conj	6056 Oct 29 14:55	9°♄44'42	1°32'30	morning set	6057 Oct 05 19:02	8°♄17'43	
minimum elong	6056 Oct 29 17:24	9°♄56'47	1°32'20				
max. Earth dist.	6056 Nov 05 02:31	21°♄59'31	1.38193 AU	superior conj	6057 Oct 13 07:31	23°♄48'30	1°41'16
evening rise	6056 Nov 08 20:38	28°♄42'27		minimum elong	6057 Oct 13 08:30	23°♄53'31	1°41'15
	6056 Nov 09 14:25	0°♄			6057 Oct 16 09:32	0°♄	
desc. node	6056 Nov 13 12:36	6°♄40'05		max. Earth dist.	6057 Oct 18 10:04	3°♄57'22	1.36186 AU
	6056 Nov 28 18:09	0°♄		evening rise	6057 Oct 22 08:10	11°♄22'05	
evening max el	6056 Dec 14 10:21	19°♄14'41	24°58'33	desc. node	6057 Oct 31 09:38	27°♄09'23	
retrograde	6056 Dec 26 05:27	26°♄05'13			6057 Nov 02 03:39	0°♄	
evening set	6056 Dec 31 21:23	23°♄43'55			6057 Nov 24 01:30	0°♄	
asc. node	6057 Jan 04 15:37	19°♄38'53		evening max el	6057 Nov 26 23:08	2°♄59'11	26°06'33
min. Earth dist.	6057 Jan 05 09:56	18°♄39'49	0.67604 AU	retrograde	6057 Dec 09 14:03	10°♄08'32	
inferior conj	6057 Jan 06 11:00	17°♄17'28	0°36'20	evening set	6057 Dec 15 19:13	7°♄35'52	
minimum elong	6057 Jan 06 10:08	17°♄20'21	0°36'01	min. Earth dist.	6057 Dec 20 00:46	3°♄06'47	0.66767 AU
morning rise	6057 Jan 11 23:03	11°♄19'23		inferior conj	6057 Dec 21 13:10	1°♄14'04	-0°19'55
direct	6057 Jan 15 13:17	10°♄05'08		minimum elong	6057 Dec 21 13:42	1°♄12'25	0°19'40
morning max el	6057 Jan 22 20:47	14°♄11'02	19°39'39	asc. node	6057 Dec 22 12:38	0°♄02'04	
	6057 Feb 04 00:09	0°♄			6057 Dec 22 13:19	30°♄	
greatest brilliancy	6057 Feb 04 19:36	1°♄11'34	-0.7m	morning rise	6057 Dec 27 08:45	25°♄25'19	
desc. node	6057 Feb 09 11:52	8°♄11'56		direct	6057 Dec 30 11:57	24°♄29'24	
morning set	6057 Feb 17 08:31	20°♄13'02		morning max el	6058 Jan 06 05:51	28°♄11'03	18°47'02
	6057 Feb 23 15:50	0°♄			6058 Jan 07 22:30	0°♄	
max. Earth dist.	6057 Mar 01 08:55	8°♄59'21	1.44474 AU	desc. node	6058 Jan 27 08:52	28°♄35'20	
				morning set	6058 Jan 27 20:00	29°♄18'58	
superior conj	6057 Mar 05 21:36	16°♄13'36	-2°05'21		6058 Jan 28 06:27	0°♄	
minimum elong	6057 Mar 05 17:00	15°♄55'05	2°05'09	max. Earth dist.	6058 Feb 12 02:15	23°♄13'39	1.45265 AU
	6057 Mar 14 07:33	0°♄					
evening rise	6057 Mar 19 14:17	8°♄51'24		superior conj	6058 Feb 13 05:56	25°♄02'17	-1°41'38
	6057 Apr 01 11:42	0°♄		minimum elong	6058 Feb 12 20:35	24°♄25'36	1°40'48
asc. node	6057 Apr 02 14:52	1°♄37'59			6058 Feb 16 09:36	0°♄	
evening max el	6057 Apr 07 02:17	7°♄06'49	18°15'06	evening rise	6058 Feb 28 14:05	19°♄25'25	
retrograde	6057 Apr 13 11:53	10°♄31'24		greatest brilliancy	6058 Mar 07 05:45	0°♄08'41	-0.9m
evening set	6057 Apr 16 10:47	9°♄44'56			6058 Mar 07 03:35	0°♄	
inferior conj	6057 Apr 22 10:49	4°♄24'10	3°24'01	asc. node	6058 Mar 20 11:53	19°♄26'27	
minimum elong	6057 Apr 22 12:04	4°♄20'40	3°23'54	evening max el	6058 Mar 21 13:43	20°♄35'23	18°42'13

retrograde	6058 Mar 28 04:47	24°♈15'26		evening set	6059 Mar 15 14:42	7°♏01'35	
evening set	6058 Mar 31 10:20	23°♈15'53		inferior conj	6059 Mar 21 01:39	1°♏08'06	3°21'11
inferior conj	6058 Apr 06 02:17	17°♈37'44	3°29'58	minimum elong	6059 Mar 21 00:15	1°♏12'40	3°21'01
minimum elong	6058 Apr 06 02:03	17°♈38'28	3°29'57		6059 Mar 21 22:25	30°♏	
min. Earth dist.	6058 Apr 07 23:51	15°♈18'31	0.65290 AU	min. Earth dist.	6059 Mar 22 08:07	29°♏28'25	0.66650 AU
morning rise	6058 Apr 11 17:12	11°♈23'08		morning rise	6059 Mar 26 09:29	24°♏52'18	
direct	6058 Apr 18 07:44	8°♈34'14		direct	6059 Apr 01 13:59	22°♏07'18	
desc. node	6058 Apr 25 08:12	11°♈04'48		desc. node	6059 Apr 12 05:12	27°♏47'41	
morning max el	6058 May 01 15:02	16°♈24'37	27°00'25	morning max el	6059 Apr 14 00:53	29°♏33'39	25°52'00
	6058 May 12 20:48	0°♏			6059 Apr 14 11:11	0°♏	
	6058 May 31 18:58	0°♏			6059 May 06 17:31	0°♏	
morning set	6058 Jun 06 07:48	10°♏17'00		morning set	6059 May 20 04:49	22°♏59'45	
max. Earth dist.	6058 Jun 10 17:51	19°♏00'08	1.33960 AU		6059 May 23 22:22	0°♏	
				max. Earth dist.	6059 May 24 00:31	0°♏10'18	1.35591 AU
superior conj	6058 Jun 14 18:43	27°♏19'12	-0°17'15				
minimum elong	6058 Jun 14 19:38	27°♏24'02	0°17'05	superior conj	6059 May 29 12:44	11°♏01'34	-0°47'33
asc. node	6058 Jun 16 11:08	0°♏51'52		minimum elong	6059 May 29 15:25	11°♏15'09	0°47'03
	6058 Jun 16 01:18	0°♏		asc. node	6059 Jun 03 08:10	20°♏52'14	
evening rise	6058 Jun 22 03:31	12°♏53'40		evening rise	6059 Jun 06 10:35	27°♏15'27	
	6058 Jun 30 21:46	0°♏			6059 Jun 07 18:54	0°♏	
evening max el	6058 Jul 12 06:37	15°♏42'15	21°35'18	evening max el	6059 Jun 24 11:07	26°♏41'03	20°14'06
desc. node	6058 Jul 22 07:28	21°♏36'38			6059 Jun 28 15:30	0°♏	
retrograde	6058 Jul 24 15:08	21°♏49'26		retrograde	6059 Jul 05 04:30	1°♏56'41	
evening set	6058 Jul 27 03:50	21°♏34'52		evening set	6059 Jul 07 02:52	1°♏47'10	
inferior conj	6058 Aug 05 11:12	17°♏34'38	-3°56'20	desc. node	6059 Jul 09 04:28	1°♏17'18	
minimum elong	6058 Aug 05 02:08	17°♏47'20	3°53'50		6059 Jul 12 07:35	30°♏	
min. Earth dist.	6058 Aug 05 08:19	17°♏38'41	0.54789 AU	inferior conj	6059 Jul 16 05:55	27°♏48'58	-2°06'36
morning rise	6058 Aug 14 01:35	13°♏42'56		minimum elong	6059 Jul 16 00:01	27°♏57'39	2°04'29
direct	6058 Aug 17 12:10	13°♏17'13		min. Earth dist.	6059 Jul 17 19:57	26°♏52'51	0.55013 AU
morning max el	6058 Aug 29 21:00	19°♏06'47	22°05'19	morning rise	6059 Jul 24 19:52	23°♏35'54	
	6058 Sep 07 17:29	0°♏		direct	6059 Jul 28 22:55	22°♏58'56	
asc. node	6058 Sep 12 10:24	7°♏48'38		morning max el	6059 Aug 11 12:14	29°♏36'02	23°49'04
morning set	6058 Sep 20 05:01	23°♏06'06			6059 Aug 11 22:18	0°♏	
	6058 Sep 23 11:13	0°♏		asc. node	6059 Aug 30 07:26	27°♏00'52	
superior conj	6058 Sep 27 08:44	8°♏16'35	1°42'33		6059 Aug 31 19:54	0°♏	
minimum elong	6058 Sep 27 08:20	8°♏14'29	1°42'33	morning set	6059 Sep 04 16:34	7°♏57'46	
max. Earth dist.	6058 Oct 01 00:15	15°♏51'03	1.34482 AU	superior conj	6059 Sep 11 15:40	23°♏00'10	1°37'24
evening rise	6058 Oct 05 11:42	24°♏45'27		minimum elong	6059 Sep 11 14:12	22°♏52'16	1°37'18
	6058 Oct 08 06:00	0°♏		max. Earth dist.	6059 Sep 13 23:03	27°♏57'42	1.33187 AU
desc. node	6058 Oct 18 06:40	17°♏22'33			6059 Sep 14 22:06	0°♏	
	6058 Oct 26 16:00	0°♏		evening rise	6059 Sep 19 03:20	8°♏42'23	
evening max el	6058 Nov 09 11:53	16°♏36'26	26°57'46		6059 Sep 30 16:29	0°♏	
retrograde	6058 Nov 22 17:12	23°♏54'37		desc. node	6059 Oct 05 03:43	7°♏12'29	
evening set	6058 Nov 29 10:05	21°♏15'52		evening max el	6059 Oct 22 23:53	29°♏56'25	27°25'04
min. Earth dist.	6058 Dec 03 09:18	17°♏21'48	0.65567 AU		6059 Oct 23 01:24	0°♏	
inferior conj	6058 Dec 05 09:24	15°♏03'57	-1°21'20	retrograde	6059 Nov 05 14:18	7°♏14'49	
minimum elong	6058 Dec 05 11:44	14°♏57'14	1°20'19	evening set	6059 Nov 12 15:26	4°♏38'06	
asc. node	6058 Dec 09 09:39	10°♏55'44		min. Earth dist.	6059 Nov 16 09:24	1°♏17'10	0.64026 AU
morning rise	6058 Dec 11 14:27	9°♏27'03			6059 Nov 17 15:18	30°♏	
direct	6058 Dec 14 08:34	8°♏45'45		inferior conj	6059 Nov 18 21:14	28°♏41'31	-2°26'04
morning max el	6058 Dec 20 20:14	12°♏14'12	18°10'53	minimum elong	6059 Nov 19 01:36	28°♏30'09	2°24'22
	6059 Jan 02 10:29	0°♏		morning rise	6059 Nov 25 13:17	23°♏19'24	
morning set	6059 Jan 08 12:15	9°♏52'27		asc. node	6059 Nov 26 06:41	23°♏04'10	
desc. node	6059 Jan 14 05:54	19°♏10'20		direct	6059 Nov 28 00:44	22°♏48'43	
	6059 Jan 21 00:38	0°♏		morning max el	6059 Dec 04 13:07	26°♏13'17	17°51'50
superior conj	6059 Jan 23 10:25	3°♏48'14	-1°01'28		6059 Dec 07 18:50	0°♏	
minimum elong	6059 Jan 23 03:02	3°♏19'06	1°00'30	morning set	6059 Dec 21 08:33	21°♏48'14	
max. Earth dist.	6059 Jan 25 21:29	7°♏40'21	1.45319 AU		6059 Dec 26 04:23	0°♏	
evening rise	6059 Feb 08 15:46	29°♏08'22		desc. node	6060 Jan 01 02:55	9°♏52'44	
	6059 Feb 09 05:02	0°♏		superior conj	6060 Jan 03 06:30	13°♏23'16	-0°15'10
greatest brilliancy	6059 Feb 20 21:11	18°♏00'37	-0.7m	minimum elong	6060 Jan 03 04:47	13°♏16'16	0°14'52
	6059 Mar 01 07:41	0°♏		behind sun begin	6060 Jan 03 00:54	13°♏00'30	
evening max el	6059 Mar 04 21:28	4°♏08'33	19°26'24	behind sun end	6060 Jan 03 08:40	13°♏32'01	
asc. node	6059 Mar 07 08:54	6°♏21'28		max. Earth dist.	6060 Jan 08 16:01	22°♏02'59	1.44646 AU
retrograde	6059 Mar 12 01:44	8°♏14'56			6060 Jan 13 17:20	0°♏	

evening rise	6060 Jan 19 03:41	8° $\approx$ 24'10		evening rise	6060 Dec 28 16:55	17° $\approx$ 51'12	
	6060 Feb 02 11:57	0° $\mathbb{H}$			6061 Jan 05 15:46	0° $\approx$	
evening max el	6060 Feb 16 00:11	17° $\mathbb{H}$ 43'40	20°25'36		6061 Jan 27 14:56	0° $\mathbb{H}$	
asc. node	6060 Feb 22 05:57	22° $\mathbb{H}$ 08'23		evening max el	6061 Jan 28 21:31	1° $\mathbb{H}$ 20'35	21°36'30
retrograde	6060 Feb 24 00:01	22° $\mathbb{H}$ 24'38		retrograde	6061 Feb 06 21:42	6° $\mathbb{H}$ 41'02	
evening set	6060 Feb 27 21:43	20° $\mathbb{H}$ 56'41		asc. node	6061 Feb 08 02:59	6° $\mathbb{H}$ 33'09	
inferior conj	6060 Mar 04 06:09	14° $\mathbb{H}$ 50'04	3°00'42	evening set	6061 Feb 11 05:36	4° $\mathbb{H}$ 57'46	
minimum elong	6060 Mar 04 04:02	14° $\mathbb{H}$ 57'16	3°00'17		6061 Feb 15 14:34	30° $\mathbb{R}$ $\approx$	
min. Earth dist.	6060 Mar 04 22:44	13° $\mathbb{H}$ 53'29	0.67584 AU	inferior conj	6061 Feb 16 13:32	28° $\approx$ 40'44	2°30'32
morning rise	6060 Mar 09 10:08	8° $\mathbb{H}$ 35'25		minimum elong	6061 Feb 16 11:10	28° $\approx$ 48'56	2°29'54
direct	6060 Mar 15 01:39	6° $\mathbb{H}$ 04'11		min. Earth dist.	6061 Feb 16 17:28	28° $\approx$ 27'02	0.68096 AU
morning max el	6060 Mar 26 09:34	12° $\mathbb{H}$ 50'57	24°27'54	morning rise	6061 Feb 21 16:33	22° $\approx$ 28'45	
desc. node	6060 Mar 29 02:13	15° $\mathbb{H}$ 44'03		direct	6061 Feb 26 17:44	20° $\approx$ 17'38	
	6060 Apr 09 05:28	0° $\mathbb{Y}$		morning max el	6061 Mar 08 19:04	26° $\approx$ 14'57	22°58'24
	6060 Apr 28 12:54	0° $\mathbb{B}$			6061 Mar 12 05:44	0° $\mathbb{H}$	
morning set	6060 May 01 06:52	4° $\mathbb{B}$ 44'43		desc. node	6061 Mar 15 23:15	4° $\mathbb{H}$ 33'27	
max. Earth dist.	6060 May 04 22:04	11° $\mathbb{B}$ 12'58	1.37609 AU		6061 Apr 02 19:02	0° $\mathbb{Y}$	
				morning set	6061 Apr 12 08:02	15° $\mathbb{Y}$ 16'45	
superior conj	6060 May 11 19:38	24° $\mathbb{B}$ 08'03	-1°17'30	max. Earth dist.	6061 Apr 16 17:50	22° $\mathbb{Y}$ 44'02	1.39823 AU
minimum elong	6060 May 12 00:02	24° $\mathbb{B}$ 29'15	1°16'51		6061 Apr 20 21:23	0° $\mathbb{B}$	
	6060 May 14 19:47	0° $\mathbb{I}$					
evening rise	6060 May 20 11:47	11° $\mathbb{I}$ 15'29		superior conj	6061 Apr 24 11:21	6° $\mathbb{B}$ 28'36	-1°44'14
asc. node	6060 May 20 05:12	10° $\mathbb{I}$ 42'48		minimum elong	6061 Apr 24 16:36	6° $\mathbb{B}$ 52'42	1°43'42
	6060 May 30 16:33	0° $\mathbb{E}$		evening rise	6061 May 04 04:07	24° $\mathbb{B}$ 46'03	
evening max el	6060 Jun 06 04:16	8° $\mathbb{E}$ 23'02	19°12'16		6061 May 06 22:13	0° $\mathbb{I}$	
retrograde	6060 Jun 15 04:44	12° $\mathbb{E}$ 48'20		asc. node	6061 May 07 02:15	0° $\mathbb{I}$ 18'56	
evening set	6060 Jun 17 03:44	12° $\mathbb{E}$ 36'43		evening max el	6061 May 20 07:28	20° $\mathbb{I}$ 43'45	18°30'53
desc. node	6060 Jun 25 01:29	8° $\mathbb{E}$ 47'43		retrograde	6061 May 27 23:45	24° $\mathbb{I}$ 32'02	
inferior conj	6060 Jun 25 14:15	8° $\mathbb{E}$ 26'23	-0°09'32	evening set	6061 May 30 05:04	24° $\mathbb{I}$ 13'56	
minimum elong	6060 Jun 25 13:51	8° $\mathbb{E}$ 27'04	0°09'25	inferior conj	6061 Jun 06 19:30	19° $\mathbb{I}$ 44'06	1°27'05
transit middle	6060 Jun 25 13:51	8° $\mathbb{E}$ 27'04	0°09'25	minimum elong	6061 Jun 06 22:20	19° $\mathbb{I}$ 38'31	1°26'08
transit begin	6060 Jun 25 10:45	8° $\mathbb{E}$ 32'16		min. Earth dist.	6061 Jun 10 04:40	17° $\mathbb{I}$ 05'47	0.57984 AU
transit end	6060 Jun 25 16:56	8° $\mathbb{E}$ 21'52		desc. node	6061 Jun 11 22:31	15° $\mathbb{I}$ 51'45	
min. Earth dist.	6060 Jun 28 10:15	6° $\mathbb{E}$ 32'55	0.56157 AU	morning rise	6061 Jun 14 12:21	14° $\mathbb{I}$ 21'42	
morning rise	6060 Jul 03 20:54	3° $\mathbb{E}$ 38'59		direct	6061 Jun 20 09:42	12° $\mathbb{I}$ 53'10	
direct	6060 Jul 08 21:20	2° $\mathbb{E}$ 40'48		morning max el	6061 Jul 04 18:56	20° $\mathbb{I}$ 32'08	26°51'37
morning max el	6060 Jul 23 01:35	9° $\mathbb{E}$ 54'55	25°29'55		6061 Jul 12 22:39	0° $\mathbb{E}$	
	6060 Aug 07 05:42	0° $\mathbb{Q}$			6061 Jul 30 22:04	0° $\mathbb{Q}$	
asc. node	6060 Aug 16 04:29	16° $\mathbb{Q}$ 35'43		asc. node	6061 Aug 03 01:31	6° $\mathbb{Q}$ 26'11	
morning set	6060 Aug 19 04:06	22° $\mathbb{Q}$ 48'00		morning set	6061 Aug 03 13:54	7° $\mathbb{Q}$ 31'17	
	6060 Aug 22 12:07	0° $\mathbb{P}$					
				superior conj	6061 Aug 10 13:44	22° $\mathbb{Q}$ 45'10	1°10'59
superior conj	6060 Aug 26 02:00	7° $\mathbb{P}$ 52'01	1°26'40	minimum elong	6061 Aug 10 11:27	22° $\mathbb{Q}$ 32'32	1°10'36
minimum elong	6060 Aug 25 23:54	7° $\mathbb{P}$ 40'28	1°26'24	max. Earth dist.	6061 Aug 10 15:46	22° $\mathbb{Q}$ 56'23	1.31898 AU
max. Earth dist.	6060 Aug 27 05:19	10° $\mathbb{P}$ 21'57	1.32326 AU		6061 Aug 13 20:36	0° $\mathbb{P}$	
evening rise	6060 Sep 02 03:42	23° $\mathbb{P}$ 03'30		evening rise	6061 Aug 17 09:59	7° $\mathbb{P}$ 39'49	
	6060 Sep 05 14:09	0° $\mathbb{A}$			6061 Aug 29 01:14	0° $\mathbb{A}$	
desc. node	6060 Sep 21 00:45	26° $\mathbb{A}$ 29'42		desc. node	6061 Sep 07 21:47	15° $\mathbb{A}$ 00'18	
	6060 Sep 23 11:57	0° $\mathbb{M}$		evening max el	6061 Sep 16 12:27	24° $\mathbb{A}$ 52'34	26°45'55
evening max el	6060 Oct 04 09:05	12° $\mathbb{M}$ 46'32	27°22'17		6061 Sep 23 07:15	0° $\mathbb{M}$	
retrograde	6060 Oct 18 04:20	20° $\mathbb{M}$ 00'17		retrograde	6061 Sep 30 10:10	2° $\mathbb{M}$ 01'24	
evening set	6060 Oct 25 07:57	17° $\mathbb{M}$ 35'56		evening set	6061 Oct 07 07:13	0° $\mathbb{M}$ 00'57	
min. Earth dist.	6060 Oct 28 23:23	14° $\mathbb{M}$ 42'43	0.62191 AU		6061 Oct 07 07:53	30° $\mathbb{R}$ $\mathbb{A}$	
inferior conj	6060 Oct 31 21:47	11° $\mathbb{M}$ 59'41	-3°30'47	min. Earth dist.	6061 Oct 11 02:24	27° $\mathbb{A}$ 24'27	0.60158 AU
minimum elong	6060 Nov 01 03:52	11° $\mathbb{M}$ 45'35	3°28'48	inferior conj	6061 Oct 14 07:31	24° $\mathbb{A}$ 48'13	-4°29'27
morning rise	6060 Nov 08 01:39	6° $\mathbb{M}$ 55'43		minimum elong	6061 Oct 14 14:01	24° $\mathbb{A}$ 34'59	4°27'56
direct	6060 Nov 10 09:16	6° $\mathbb{M}$ 32'00		morning rise	6061 Oct 21 22:56	20° $\mathbb{A}$ 05'52	
asc. node	6060 Nov 12 03:44	6° $\mathbb{M}$ 46'16		direct	6061 Oct 24 06:05	19° $\mathbb{A}$ 46'01	
morning max el	6060 Nov 17 05:27	10° $\mathbb{M}$ 00'52	17°50'43	asc. node	6061 Oct 30 00:47	21° $\mathbb{A}$ 58'29	
	6060 Nov 30 10:29	0° $\mathbb{X}$		morning max el	6061 Oct 31 17:51	23° $\mathbb{A}$ 27'34	18°08'43
morning set	6060 Dec 03 02:36	4° $\mathbb{X}$ 46'43			6061 Nov 05 23:22	0° $\mathbb{M}$	
				morning set	6061 Nov 16 12:07	18° $\mathbb{M}$ 28'13	
					6061 Nov 22 16:18	0° $\mathbb{X}$	
superior conj	6060 Dec 14 04:10	24° $\mathbb{X}$ 13'22	0°27'12				
minimum elong	6060 Dec 14 06:36	24° $\mathbb{X}$ 23'45	0°26'52	superior conj	6061 Nov 26 02:51	6° $\mathbb{X}$ 15'34	1°00'28
desc. node	6060 Dec 17 23:58	0° $\mathbb{B}$ 39'14		minimum elong	6061 Nov 26 06:38	6° $\mathbb{X}$ 32'31	1°00'00
	6060 Dec 17 14:32	0° $\mathbb{B}$		max. Earth dist.	6061 Dec 03 18:39	19° $\mathbb{X}$ 35'10	1.41504 AU
max. Earth dist.	6060 Dec 21 07:47	6° $\mathbb{B}$ 06'56	1.43325 AU				

desc. node	6061 Dec 04 21:00	21° $\text{♁}$ 25'41		evening rise	6062 Nov 19 23:42	9° $\text{♁}$ 10'31	
evening rise	6061 Dec 08 21:18	28° $\text{♁}$ 01'04		desc. node	6062 Nov 21 18:02	12° $\text{♁}$ 08'39	
	6061 Dec 10 02:52	0° $\text{♁}$			6062 Dec 03 01:10	0° $\text{♁}$	
	6061 Dec 30 07:31	0° $\text{♁}$		evening max el	6062 Dec 25 03:41	28° $\text{♁}$ 40'51	24°14'35
evening max el	6062 Jan 11 14:06	14° $\text{♁}$ 59'13	22°54'45		6062 Dec 26 12:44	0° $\text{♁}$	
retrograde	6062 Jan 21 17:12	20° $\text{♁}$ 59'47		retrograde	6063 Jan 05 09:18	5° $\text{♁}$ 16'28	
asc. node	6062 Jan 26 00:01	19° $\text{♁}$ 26'06		evening set	6063 Jan 10 17:33	3° $\text{♁}$ 02'49	
evening set	6062 Jan 26 12:44	19° $\text{♁}$ 00'58		asc. node	6063 Jan 12 21:04	0° $\text{♁}$ 52'58	
inferior conj	6062 Jan 31 21:48	12° $\text{♁}$ 36'49	1°52'01		6063 Jan 13 14:50	30° $\text{♁}$	
minimum elong	6062 Jan 31 19:39	12° $\text{♁}$ 44'16	1°51'18	min. Earth dist.	6063 Jan 15 10:19	27° $\text{♁}$ 38'59	0.67922 AU
min. Earth dist.	6062 Jan 31 14:05	13° $\text{♁}$ 03'28	0.68200 AU	inferior conj	6063 Jan 16 05:08	26° $\text{♁}$ 35'37	1°05'59
morning rise	6062 Feb 06 02:28	6° $\text{♁}$ 28'57		minimum elong	6063 Jan 16 03:39	26° $\text{♁}$ 40'37	1°05'25
direct	6062 Feb 10 13:12	4° $\text{♁}$ 40'34		morning rise	6063 Jan 21 13:50	20° $\text{♁}$ 33'24	
morning max el	6062 Feb 19 08:57	9° $\text{♁}$ 48'16	21°32'35	direct	6063 Jan 25 11:03	19° $\text{♁}$ 07'25	
desc. node	6062 Mar 02 20:16	24° $\text{♁}$ 00'54		morning max el	6063 Feb 02 06:00	23° $\text{♁}$ 33'03	20°16'54
	6062 Mar 07 01:35	0° $\text{♁}$			6063 Feb 07 19:02	0° $\text{♁}$	
morning set	6062 Mar 23 05:00	24° $\text{♁}$ 30'04		desc. node	6063 Feb 17 17:17	13° $\text{♁}$ 55'45	
	6062 Mar 26 15:18	0° $\text{♁}$			6063 Feb 28 08:55	0° $\text{♁}$	
max. Earth dist.	6062 Mar 29 18:29	5° $\text{♁}$ 07'27	1.41942 AU	morning set	6063 Mar 02 04:27	2° $\text{♁}$ 47'51	
				max. Earth dist.	6063 Mar 12 02:10	18° $\text{♁}$ 22'54	1.43702 AU
superior conj	6062 Apr 06 07:04	17° $\text{♁}$ 52'11	-2°03'32	superior conj	6063 Mar 18 02:20	28° $\text{♁}$ 09'11	-2°09'50
minimum elong	6062 Apr 06 11:02	18° $\text{♁}$ 09'25	2°03'20	minimum elong	6063 Mar 18 01:36	28° $\text{♁}$ 06'07	2°09'50
	6062 Apr 13 03:08	0° $\text{♁}$			6063 Mar 19 05:08	0° $\text{♁}$	
evening rise	6062 Apr 17 07:52	7° $\text{♁}$ 38'25		evening rise	6063 Mar 30 18:30	19° $\text{♁}$ 41'54	
asc. node	6062 Apr 23 23:17	19° $\text{♁}$ 35'23			6063 Apr 05 17:15	0° $\text{♁}$	
	6062 Apr 30 15:05	0° $\text{♁}$		asc. node	6063 Apr 10 20:18	8° $\text{♁}$ 24'46	
evening max el	6062 May 03 17:07	3° $\text{♁}$ 34'41	18°09'35	evening max el	6063 Apr 17 05:47	16° $\text{♁}$ 46'08	18°07'41
retrograde	6062 May 10 13:06	7° $\text{♁}$ 02'11		retrograde	6063 Apr 23 16:26	20° $\text{♁}$ 07'51	
evening set	6062 May 13 01:26	6° $\text{♁}$ 34'36		evening set	6063 Apr 26 11:28	19° $\text{♁}$ 28'47	
inferior conj	6062 May 19 21:52	1° $\text{♁}$ 44'14	2°33'37	inferior conj	6063 May 02 17:49	14° $\text{♁}$ 18'57	3°12'15
minimum elong	6062 May 20 01:08	1° $\text{♁}$ 36'44	2°32'47	minimum elong	6063 May 02 19:58	14° $\text{♁}$ 13'21	3°11'54
	6062 May 21 19:06	30° $\text{♁}$		min. Earth dist.	6063 May 05 15:13	11° $\text{♁}$ 18'28	0.62350 AU
min. Earth dist.	6062 May 23 05:44	28° $\text{♁}$ 42'35	0.60154 AU	morning rise	6063 May 09 02:51	8° $\text{♁}$ 14'20	
morning rise	6062 May 26 22:16	25° $\text{♁}$ 55'24		direct	6063 May 15 22:19	5° $\text{♁}$ 44'20	
desc. node	6062 May 29 19:32	24° $\text{♁}$ 31'13		desc. node	6063 May 16 16:34	5° $\text{♁}$ 46'06	
direct	6062 Jun 02 10:44	23° $\text{♁}$ 53'21		morning max el	6063 May 30 00:46	13° $\text{♁}$ 45'54	27°53'10
	6062 Jun 14 21:06	0° $\text{♁}$			6063 Jun 12 01:48	0° $\text{♁}$	
morning max el	6062 Jun 16 18:58	1° $\text{♁}$ 48'00	27°41'16		6063 Jun 29 17:50	0° $\text{♁}$	
	6062 Jul 07 06:02	0° $\text{♁}$		morning set	6063 Jul 02 21:12	6° $\text{♁}$ 14'23	
morning set	6062 Jul 18 20:19	22° $\text{♁}$ 02'34		asc. node	6063 Jul 07 19:34	16° $\text{♁}$ 32'51	
asc. node	6062 Jul 20 22:33	26° $\text{♁}$ 27'03		max. Earth dist.	6063 Jul 08 09:43	17° $\text{♁}$ 48'46	1.32333 AU
	6062 Jul 22 14:11	0° $\text{♁}$					
max. Earth dist.	6062 Jul 25 02:35	5° $\text{♁}$ 29'55	1.31897 AU	superior conj	6063 Jul 10 10:25	22° $\text{♁}$ 12'36	0°26'52
superior conj	6062 Jul 26 01:09	7° $\text{♁}$ 34'15	0°50'52	minimum elong	6063 Jul 10 09:12	22° $\text{♁}$ 05'58	0°26'35
minimum elong	6062 Jul 25 23:09	7° $\text{♁}$ 23'15	0°50'28		6063 Jul 13 23:58	0° $\text{♁}$	
evening rise	6062 Aug 01 19:58	22° $\text{♁}$ 24'35		evening rise	6063 Jul 17 07:34	7° $\text{♁}$ 10'26	
	6062 Aug 05 11:32	0° $\text{♁}$			6063 Jul 29 05:00	0° $\text{♁}$	
	6062 Aug 23 17:47	0° $\text{♁}$		evening max el	6063 Aug 10 21:08	16° $\text{♁}$ 42'07	24°06'59
desc. node	6062 Aug 25 18:48	2° $\text{♁}$ 25'32		desc. node	6063 Aug 12 15:48	18° $\text{♁}$ 19'09	
evening max el	6062 Aug 29 07:59	6° $\text{♁}$ 08'23	25°37'43	retrograde	6063 Aug 24 15:35	23° $\text{♁}$ 37'25	
retrograde	6062 Sep 12 06:35	13° $\text{♁}$ 13'11		evening set	6063 Aug 29 09:01	22° $\text{♁}$ 48'00	
evening set	6062 Sep 18 08:23	11° $\text{♁}$ 46'47		min. Earth dist.	6063 Sep 04 07:50	19° $\text{♁}$ 51'26	0.56305 AU
min. Earth dist.	6062 Sep 22 20:00	9° $\text{♁}$ 09'40	0.58103 AU	inferior conj	6063 Sep 06 18:12	18° $\text{♁}$ 21'15	-5°21'30
inferior conj	6062 Sep 25 22:59	6° $\text{♁}$ 57'46	-5°11'35	minimum elong	6063 Sep 06 16:26	18° $\text{♁}$ 23'59	5°21'25
minimum elong	6062 Sep 26 03:07	6° $\text{♁}$ 50'28	5°11'08	morning rise	6063 Sep 15 02:14	14° $\text{♁}$ 22'20	
morning rise	6062 Oct 04 00:10	2° $\text{♁}$ 38'42		direct	6063 Sep 17 19:36	14° $\text{♁}$ 03'00	
direct	6062 Oct 06 10:33	2° $\text{♁}$ 20'14		morning max el	6063 Sep 27 17:25	18° $\text{♁}$ 41'02	19°47'57
morning max el	6062 Oct 14 22:56	6° $\text{♁}$ 24'19	18°47'22	asc. node	6063 Oct 03 18:51	26° $\text{♁}$ 00'00	
asc. node	6062 Oct 16 21:50	8° $\text{♁}$ 28'13			6063 Oct 06 08:27	0° $\text{♁}$	
	6062 Oct 29 23:38	0° $\text{♁}$		morning set	6063 Oct 15 11:54	17° $\text{♁}$ 10'45	
morning set	6062 Oct 31 08:21	2° $\text{♁}$ 39'25			6063 Oct 21 19:35	0° $\text{♁}$	
superior conj	6062 Nov 08 21:47	19° $\text{♁}$ 16'16	1°23'33	superior conj	6063 Oct 23 07:43	3° $\text{♁}$ 00'32	1°37'12
minimum elong	6062 Nov 09 01:00	19° $\text{♁}$ 31'31	1°23'16	minimum elong	6063 Oct 23 09:35	3° $\text{♁}$ 09'45	1°37'07
	6062 Nov 14 17:27	0° $\text{♁}$		max. Earth dist.	6063 Oct 29 05:42	14° $\text{♁}$ 26'03	1.37306 AU
max. Earth dist.	6062 Nov 16 00:40	2° $\text{♁}$ 18'50	1.39412 AU	evening rise	6063 Nov 02 00:05	21° $\text{♁}$ 19'45	






























































































































	6063 Nov 06 23:44	0°♊			6064 Sep 27 21:53	0°♊	
desc. node	6063 Nov 08 15:02	2°♊44'18		morning set	6064 Sep 28 20:09	1°♊54'54	
	6063 Nov 26 23:37	0°♋					
evening max el	6063 Dec 07 16:24	12°♋25'44	25°29'09	superior conj	6064 Oct 06 04:21	17°♋15'36	1°42'39
retrograde	6063 Dec 19 20:57	19°♋26'23		minimum elong	6064 Oct 06 04:43	17°♋17'30	1°42'40
evening set	6063 Dec 25 18:26	16°♋59'52		max. Earth dist.	6064 Oct 10 15:34	26°♋19'10	1.35416 AU
min. Earth dist.	6063 Dec 30 03:55	12°♋10'23	0.67283 AU		6064 Oct 12 12:37	0°♌	
asc. node	6063 Dec 30 18:06	11°♋24'56		evening rise	6064 Oct 14 18:56	4°♌19'32	
inferior conj	6063 Dec 31 09:45	10°♋34'30	0°13'13	desc. node	6064 Oct 25 12:03	23°♌07'29	
minimum elong	6063 Dec 31 09:24	10°♋35'35	0°13'06		6064 Oct 29 20:23	0°♍	
transit middle	6063 Dec 31 09:24	10°♋35'35	0°13'06	evening max el	6064 Nov 19 05:23	26°♍08'57	26°31'00
transit begin	6063 Dec 31 07:46	10°♋40'52			6064 Nov 23 17:41	0°♎	
transit end	6063 Dec 31 11:03	10°♋30'19		retrograde	6064 Dec 02 03:15	3°♎22'58	
morning rise	6064 Jan 06 00:44	4°♎39'55		evening set	6064 Dec 08 13:33	0°♎47'19	
direct	6064 Jan 09 09:57	3°♎33'58			6064 Dec 09 11:15	30°♏♊	
morning max el	6064 Jan 16 10:55	7°♎28'36	19°15'18	min. Earth dist.	6064 Dec 12 16:27	26°♏32'55	0.66293 AU
greatest brilliancy	6064 Jan 29 20:01	25°♎23'14	-0.7m	inferior conj	6064 Dec 14 09:40	24°♏29'04	-0°45'26
	6064 Feb 01 20:56	0°♏		minimum elong	6064 Dec 14 10:55	24°♏25'17	0°44'51
desc. node	6064 Feb 04 14:18	4°♏10'40		asc. node	6064 Dec 16 15:08	21°♏54'17	
morning set	6064 Feb 09 04:34	11°♏16'28		morning rise	6064 Dec 20 09:01	18°♏44'43	
	6064 Feb 21 04:50	0°♐		direct	6064 Dec 23 08:07	17°♏55'24	
max. Earth dist.	6064 Feb 22 16:19	2°♐19'37	1.44892 AU	morning max el	6064 Dec 29 22:27	21°♏30'15	18°29'36
					6065 Jan 05 16:21	0°♑	
superior conj	6064 Feb 25 21:11	7°♐23'44	-1°57'44	morning set	6065 Jan 19 03:37	20°♑58'16	
minimum elong	6064 Feb 25 13:58	6°♐55'04	1°57'17	desc. node	6065 Jan 21 11:17	24°♑39'33	
	6064 Mar 10 19:51	0°♒			6065 Jan 24 20:10	0°♒	
evening rise	6064 Mar 11 07:46	0°♒49'13					
asc. node	6064 Mar 27 17:20	26°♒38'52		superior conj	6065 Feb 04 01:19	16°♒04'09	-1°26'07
	6064 Mar 30 14:12	0°♓		minimum elong	6065 Feb 03 15:57	15°♒27'29	1°25'05
evening max el	6064 Mar 30 18:30	0°♓10'54	18°24'28	max. Earth dist.	6065 Feb 04 10:52	16°♒41'37	1.45382 AU
retrograde	6064 Apr 06 05:26	3°♓40'27			6065 Feb 12 22:27	0°♔	
evening set	6064 Apr 09 07:04	2°♓48'38		evening rise	6065 Feb 19 21:35	10°♔59'24	
	6064 Apr 12 17:55	30°♕♒		greatest brilliancy	6065 Mar 01 07:02	25°♔50'02	-0.8m
inferior conj	6064 Apr 15 03:17	27°♒20'33	3°28'33		6065 Mar 03 23:41	0°♒	
minimum elong	6064 Apr 15 03:52	27°♒18'49	3°28'30	evening max el	6065 Mar 14 04:40	13°♒42'17	18°59'04
min. Earth dist.	6064 Apr 17 09:56	24°♒42'03	0.64325 AU	asc. node	6065 Mar 14 14:22	14°♒06'26	
morning rise	6064 Apr 20 23:50	21°♒08'17		retrograde	6065 Mar 21 00:18	17°♒31'52	
direct	6064 Apr 27 18:15	18°♒22'13		evening set	6065 Mar 24 08:59	16°♒26'25	
desc. node	6064 May 02 13:35	19°♒33'12		inferior conj	6065 Mar 29 22:28	10°♒41'38	3°27'47
morning max el	6064 May 11 09:56	26°♒19'56	27°28'37	minimum elong	6065 Mar 29 21:41	10°♒44'05	3°27'44
	6064 May 14 19:35	0°♔		min. Earth dist.	6065 Mar 31 13:30	8°♒38'35	0.65927 AU
	6064 Jun 04 15:52	0°♕		morning rise	6065 Apr 04 10:00	4°♒26'27	
morning set	6064 Jun 15 14:02	19°♕59'30		direct	6065 Apr 10 20:52	1°♒37'50	
max. Earth dist.	6064 Jun 20 09:20	29°♕42'36	1.33233 AU	desc. node	6065 Apr 19 10:35	5°♒21'08	
	6064 Jun 20 12:41	0°♖		morning max el	6065 Apr 23 20:00	9°♒19'04	26°33'51
					6065 May 10 01:40	0°♔	
superior conj	6064 Jun 23 15:39	6°♖34'43	-0°00'25		6065 May 28 03:13	0°♕	
minimum elong	6064 Jun 23 15:40	6°♖34'49	0°00'26	morning set	6065 May 29 19:31	3°♕08'25	
behind sun begin	6064 Jun 23 10:14	6°♖05'54		max. Earth dist.	6065 Jun 02 22:41	11°♕07'56	1.34603 AU
behind sun end	6064 Jun 23 21:06	7°♖03'47					
asc. node	6064 Jun 23 16:36	6°♖39'47		superior conj	6065 Jun 07 14:34	20°♕34'03	-0°29'59
evening rise	6064 Jun 30 19:00	21°♖51'59		minimum elong	6065 Jun 07 16:13	20°♕42'35	0°29'41
	6064 Jul 04 17:38	0°♗		asc. node	6065 Jun 10 13:38	26°♕43'55	
evening max el	6064 Jul 22 10:23	27°♗01'04	22°28'53		6065 Jun 12 03:01	0°♖	
	6064 Jul 25 22:16	0°♘		evening rise	6065 Jun 15 04:18	6°♖23'19	
desc. node	6064 Jul 29 12:50	2°♘08'50			6065 Jun 28 02:06	0°♗	
retrograde	6064 Aug 04 11:49	3°♘30'52		evening max el	6065 Jul 04 07:52	7°♗38'49	20°58'35
evening set	6064 Aug 07 16:58	3°♘08'09		retrograde	6065 Jul 16 00:21	13°♗24'34	
	6064 Aug 15 01:44	30°♙♗		desc. node	6065 Jul 16 09:51	13°♗24'12	
min. Earth dist.	6064 Aug 15 17:30	29°♗37'54	0.55104 AU	evening set	6065 Jul 18 04:58	13°♗13'12	
inferior conj	6064 Aug 16 19:31	29°♗01'03	-4°42'42	inferior conj	6065 Jul 27 12:29	9°♗15'53	-3°12'59
minimum elong	6064 Aug 16 11:36	29°♗12'17	4°41'09	minimum elong	6065 Jul 27 04:05	9°♗27'45	3°10'18
morning rise	6064 Aug 25 08:06	25°♗11'40		min. Earth dist.	6065 Jul 28 03:35	8°♗54'33	0.54769 AU
direct	6064 Aug 28 11:45	24°♗49'03		morning rise	6065 Aug 05 03:24	5°♗17'47	
	6064 Sep 08 18:40	0°♙		direct	6065 Aug 08 20:35	4°♗48'10	
morning max el	6064 Sep 08 23:27	0°♙11'00	21°09'59	morning max el	6065 Aug 21 18:38	10°♗58'05	22°48'46
asc. node	6064 Sep 19 15:53	14°♙19'51			6065 Sep 04 17:38	0°♙	

asc. node	6065 Sep 06 12:55	3° $\mathbb{M}$ 16'16		asc. node	6066 Aug 24 09:58	22° $\mathbb{Q}$ 39'08	
morning set	6065 Sep 13 07:05	16° $\mathbb{M}$ 46'13			6066 Aug 28 00:14	0° $\mathbb{M}$	
	6065 Sep 19 11:26	0° $\mathbb{L}$		morning set	6066 Aug 28 18:51	1° $\mathbb{M}$ 38'18	
superior conj	6065 Sep 20 08:21	1° $\mathbb{L}$ 51'50	1°41'06	superior conj	6066 Sep 04 17:00	16° $\mathbb{M}$ 39'56	1°33'30
minimum elong	6065 Sep 20 07:27	1° $\mathbb{L}$ 47'04	1°41'03	minimum elong	6066 Sep 04 15:13	16° $\mathbb{M}$ 30'12	1°33'19
max. Earth dist.	6065 Sep 23 09:50	8° $\mathbb{L}$ 19'37	1.33883 AU	max. Earth dist.	6066 Sep 06 12:15	20° $\mathbb{M}$ 34'41	1.32769 AU
evening rise	6065 Sep 28 04:09	17° $\mathbb{L}$ 59'11			6066 Sep 10 23:02	0° $\mathbb{L}$	
	6065 Oct 04 13:24	0° $\mathbb{M}$		evening rise	6066 Sep 11 23:52	2° $\mathbb{L}$ 07'23	
desc. node	6065 Oct 12 09:06	13° $\mathbb{M}$ 12'21			6066 Sep 27 10:09	0° $\mathbb{M}$	
	6065 Oct 24 02:52	0° $\mathbb{X}$		desc. node	6066 Sep 29 06:09	2° $\mathbb{M}$ 49'53	
evening max el	6065 Nov 01 18:13	9° $\mathbb{X}$ 41'18	27°12'41	evening max el	6066 Oct 15 05:09	22° $\mathbb{M}$ 49'28	27°27'41
retrograde	6065 Nov 15 03:39	16° $\mathbb{X}$ 59'27			6066 Oct 27 10:02	0° $\mathbb{X}$	
evening set	6065 Nov 22 00:42	14° $\mathbb{X}$ 20'34		retrograde	6066 Oct 28 21:44	0° $\mathbb{X}$ 06'14	
min. Earth dist.	6065 Nov 25 21:36	10° $\mathbb{X}$ 41'01	0.64958 AU		6066 Oct 30 08:48	30° $\mathbb{R}$ $\mathbb{M}$	
inferior conj	6065 Nov 28 02:40	8° $\mathbb{X}$ 14'50	-1°48'32	evening set	6066 Nov 05 01:02	27° $\mathbb{M}$ 33'05	
minimum elong	6065 Nov 28 05:52	8° $\mathbb{X}$ 06'01	1°47'11	min. Earth dist.	6066 Nov 08 17:20	24° $\mathbb{M}$ 25'13	0.63284 AU
asc. node	6065 Dec 03 12:10	3° $\mathbb{X}$ 16'05		inferior conj	6066 Nov 11 10:04	21° $\mathbb{M}$ 44'46	-2°53'48
morning rise	6065 Dec 04 12:13	2° $\mathbb{X}$ 43'44		minimum elong	6066 Nov 11 15:14	21° $\mathbb{M}$ 31'56	2°51'53
direct	6065 Dec 07 03:19	2° $\mathbb{X}$ 07'16		morning rise	6066 Nov 18 07:07	16° $\mathbb{M}$ 30'16	
morning max el	6065 Dec 13 14:15	5° $\mathbb{X}$ 32'39	18°00'39	asc. node	6066 Nov 20 09:12	16° $\mathbb{M}$ 03'25	
	6065 Dec 30 01:21	0° $\mathbb{Z}$		direct	6066 Nov 20 16:37	16° $\mathbb{M}$ 02'57	
morning set	6065 Dec 31 08:25	2° $\mathbb{Z}$ 09'04		morning max el	6066 Nov 27 07:20	19° $\mathbb{M}$ 28'01	17°49'09
desc. node	6066 Jan 08 08:20	15° $\mathbb{Z}$ 18'17			6066 Dec 05 01:58	0° $\mathbb{X}$	
				morning set	6066 Dec 13 14:45	14° $\mathbb{X}$ 33'43	
superior conj	6066 Jan 14 10:19	25° $\mathbb{Z}$ 05'02	-0°41'53		6066 Dec 22 14:16	0° $\mathbb{Z}$	
minimum elong	6066 Jan 14 05:15	24° $\mathbb{Z}$ 44'52	0°41'09	superior conj	6066 Dec 25 16:50	5° $\mathbb{Z}$ 11'05	0°03'45
	6066 Jan 17 12:47	0° $\mathbb{X}$		minimum elong	6066 Dec 25 17:13	5° $\mathbb{Z}$ 12'42	0°03'43
max. Earth dist.	6066 Jan 18 06:43	1° $\mathbb{X}$ 10'40	1.45125 AU	behind sun begin	6066 Dec 25 07:59	4° $\mathbb{Z}$ 34'26	
evening rise	6066 Jan 30 15:55	20° $\mathbb{X}$ 26'58		behind sun end	6066 Dec 26 02:27	5° $\mathbb{Z}$ 50'53	
	6066 Feb 05 21:07	0° $\mathbb{X}$		desc. node	6066 Dec 26 05:23	6° $\mathbb{Z}$ 02'59	
greatest brilliancy	6066 Feb 13 14:25	11° $\mathbb{X}$ 39'15	-0.6m	max. Earth dist.	6067 Jan 01 00:22	15° $\mathbb{Z}$ 27'22	1.44154 AU
evening max el	6066 Feb 25 10:23	27° $\mathbb{X}$ 16'13	19°49'54	evening rise	6067 Jan 10 02:23	29° $\mathbb{Z}$ 42'29	
	6066 Feb 28 13:46	0° $\mathbb{Y}$			6067 Jan 10 06:56	0° $\mathbb{X}$	
asc. node	6066 Mar 01 11:25	0° $\mathbb{Y}$ 34'18			6067 Jan 30 15:00	0° $\mathbb{X}$	
retrograde	6066 Mar 04 22:08	1° $\mathbb{Y}$ 36'17		evening max el	6067 Feb 08 10:39	10° $\mathbb{X}$ 51'29	20°54'32
evening set	6066 Mar 08 14:44	0° $\mathbb{Y}$ 16'35		asc. node	6067 Feb 16 08:27	15° $\mathbb{X}$ 48'04	
	6066 Mar 08 23:32	30° $\mathbb{R}$ $\mathbb{X}$		retrograde	6067 Feb 16 20:29	15° $\mathbb{X}$ 49'24	
inferior conj	6066 Mar 14 00:18	24° $\mathbb{X}$ 17'02	3°13'45	evening set	6067 Feb 20 22:19	14° $\mathbb{X}$ 14'56	
minimum elong	6066 Mar 13 22:33	24° $\mathbb{X}$ 22'53	3°13'30	inferior conj	6067 Feb 26 06:17	8° $\mathbb{X}$ 03'14	2°49'01
min. Earth dist.	6066 Mar 15 00:37	22° $\mathbb{X}$ 55'51	0.67101 AU	minimum elong	6067 Feb 26 04:01	8° $\mathbb{X}$ 11'04	2°48'29
morning rise	6066 Mar 19 06:09	18° $\mathbb{X}$ 01'39		min. Earth dist.	6067 Feb 26 17:18	7° $\mathbb{X}$ 25'14	0.67845 AU
direct	6066 Mar 25 05:19	15° $\mathbb{X}$ 21'50		morning rise	6067 Mar 03 09:31	1° $\mathbb{X}$ 49'24	
morning max el	6066 Apr 06 05:24	22° $\mathbb{X}$ 32'30	25°17'36		6067 Mar 06 03:06	30° $\mathbb{R}$ $\mathbb{X}$	
desc. node	6066 Apr 06 07:37	22° $\mathbb{X}$ 38'06		direct	6067 Mar 08 18:52	29° $\mathbb{X}$ 26'24	
	6066 Apr 12 18:40	0° $\mathbb{Y}$			6067 Mar 11 14:59	0° $\mathbb{X}$	
	6066 May 03 09:03	0° $\mathbb{Z}$		morning max el	6067 Mar 19 14:17	5° $\mathbb{X}$ 53'24	23°49'59
morning set	6066 May 12 09:09	15° $\mathbb{Z}$ 28'15		desc. node	6067 Mar 24 04:39	10° $\mathbb{X}$ 59'21	
max. Earth dist.	6066 May 16 01:17	22° $\mathbb{Z}$ 12'58	1.36412 AU		6067 Apr 07 05:49	0° $\mathbb{Y}$	
	6066 May 20 03:02	0° $\mathbb{I}$		morning set	6067 Apr 24 01:24	26° $\mathbb{Y}$ 44'26	
superior conj	6066 May 22 04:18	4° $\mathbb{I}$ 02'10	-1°00'25		6067 Apr 25 22:44	0° $\mathbb{Z}$	
minimum elong	6066 May 22 07:46	4° $\mathbb{I}$ 19'18	0°59'51	max. Earth dist.	6067 Apr 27 21:12	3° $\mathbb{Z}$ 23'59	1.38535 AU
asc. node	6066 May 28 10:41	16° $\mathbb{I}$ 40'42		superior conj	6067 May 05 05:18	16° $\mathbb{Z}$ 50'19	-1°29'27
evening rise	6066 May 30 09:14	20° $\mathbb{I}$ 37'03		minimum elong	6067 May 05 10:13	17° $\mathbb{Z}$ 13'37	1°28'48
	6066 Jun 04 03:16	0° $\mathbb{S}$			6067 May 12 00:50	0° $\mathbb{I}$	
evening max el	6066 Jun 16 17:48	18° $\mathbb{S}$ 55'26	19°45'16	evening rise	6067 May 14 07:07	4° $\mathbb{I}$ 25'52	
retrograde	6066 Jun 26 17:17	23° $\mathbb{S}$ 49'06		asc. node	6067 May 15 07:44	6° $\mathbb{I}$ 25'56	
evening set	6066 Jun 28 14:41	23° $\mathbb{S}$ 39'19			6067 May 29 18:16	0° $\mathbb{S}$	
desc. node	6066 Jul 03 06:53	22° $\mathbb{S}$ 01'47		evening max el	6067 May 30 15:36	0° $\mathbb{S}$ 54'46	18°52'11
inferior conj	6066 Jul 07 11:35	19° $\mathbb{S}$ 36'54	-1°15'51	retrograde	6067 Jun 08 01:19	5° $\mathbb{S}$ 02'46	
minimum elong	6066 Jul 07 08:06	19° $\mathbb{S}$ 42'19	1°14'34	evening set	6067 Jun 10 02:28	4° $\mathbb{S}$ 48'59	
min. Earth dist.	6066 Jul 09 15:59	18° $\mathbb{S}$ 15'54	0.55395 AU	inferior conj	6067 Jun 18 04:29	0° $\mathbb{S}$ 30'55	0°34'50
morning rise	6066 Jul 15 23:24	15° $\mathbb{S}$ 10'20		minimum elong	6067 Jun 18 05:50	0° $\mathbb{S}$ 28'29	0°34'19
direct	6066 Jul 20 10:58	14° $\mathbb{S}$ 25'57			6067 Jun 18 21:37	30° $\mathbb{R}$ $\mathbb{I}$	
morning max el	6066 Aug 03 08:21	21° $\mathbb{S}$ 19'50	24°33'21	desc. node	6067 Jun 20 03:53	29° $\mathbb{I}$ 05'32	
	6066 Aug 10 21:07	0° $\mathbb{Q}$					

min. Earth dist.	6067 Jun 21 08:08	28° $\Pi$ 16'01	0.56863 AU	minimum elong	6068 May 29 22:12	11° $\Pi$ 59'31	1°58'00
morning rise	6067 Jun 26 05:47	25° $\Pi$ 27'34		min. Earth dist.	6068 Jun 02 05:13	9° $\Pi$ 14'56	0.58886 AU
direct	6067 Jul 01 15:18	24° $\Pi$ 17'22		morning rise	6068 Jun 06 04:49	6° $\Pi$ 31'31	
	6067 Jul 14 01:27	0° $\mathfrak{S}$		desc. node	6068 Jun 06 00:55	6° $\Pi$ 36'54	
morning max el	6067 Jul 15 23:04	1° $\mathfrak{S}$ 44'13	26°07'52	direct	6068 Jun 12 09:43	4° $\Pi$ 48'11	
	6067 Aug 04 22:52	0° $\Omega$		morning max el	6068 Jun 26 18:59	12° $\Pi$ 35'24	27°17'06
asc. node	6067 Aug 11 07:01	12° $\Omega$ 21'22			6068 Jul 10 12:18	0° $\mathfrak{S}$	
morning set	6067 Aug 13 05:50	16° $\Omega$ 26'15			6068 Jul 27 02:01	0° $\Omega$	
	6067 Aug 19 11:17	0° $\mathfrak{M}$		morning set	6068 Jul 27 14:24	1° $\Omega$ 04'47	
				asc. node	6068 Jul 28 04:03	2° $\Omega$ 16'37	
superior conj	6067 Aug 20 04:10	1° $\mathfrak{M}$ 33'14	1°20'35	superior conj	6068 Aug 03 15:59	16° $\Omega$ 25'21	1°02'58
minimum elong	6067 Aug 20 01:56	1° $\mathfrak{M}$ 20'54	1°20'16	minimum elong	6068 Aug 03 13:46	16° $\Omega$ 13'04	1°02'34
max. Earth dist.	6067 Aug 20 20:32	3° $\mathfrak{M}$ 03'26	1.32090 AU	max. Earth dist.	6068 Aug 03 07:24	15° $\Omega$ 37'52	1.31841 AU
evening rise	6067 Aug 27 03:02	16° $\mathfrak{M}$ 35'40			6068 Aug 09 20:48	0° $\mathfrak{M}$	
	6067 Sep 02 20:57	0° $\mathfrak{L}$		evening rise	6068 Aug 10 11:07	1° $\mathfrak{M}$ 16'21	
desc. node	6067 Sep 16 03:10	21° $\mathfrak{L}$ 49'06			6068 Aug 25 23:11	0° $\mathfrak{L}$	
	6067 Sep 22 10:51	0° $\mathfrak{M}$		desc. node	6068 Sep 02 00:09	9° $\mathfrak{L}$ 54'44	
evening max el	6067 Sep 27 11:58	5° $\mathfrak{M}$ 21'15	27°10'50	evening max el	6068 Sep 08 12:17	17° $\mathfrak{L}$ 07'00	26°20'33
retrograde	6067 Oct 11 08:46	12° $\mathfrak{M}$ 33'41		retrograde	6068 Sep 22 11:02	24° $\mathfrak{L}$ 14'14	
evening set	6067 Oct 18 10:48	10° $\mathfrak{M}$ 17'50		evening set	6068 Sep 29 01:19	22° $\mathfrak{L}$ 27'36	
min. Earth dist.	6067 Oct 22 02:36	7° $\mathfrak{M}$ 33'31	0.61341 AU	min. Earth dist.	6068 Oct 03 01:40	19° $\mathfrak{L}$ 52'52	0.59268 AU
inferior conj	6067 Oct 25 04:41	4° $\mathfrak{M}$ 51'04	-3°56'56	inferior conj	6068 Oct 06 07:07	17° $\mathfrak{L}$ 24'51	-4°50'12
minimum elong	6067 Oct 25 11:11	4° $\mathfrak{M}$ 36'46	3°55'03	minimum elong	6068 Oct 06 13:03	17° $\mathfrak{L}$ 13'28	4°49'06
	6067 Nov 01 08:53	30° $\mathfrak{R}$ $\mathfrak{L}$		morning rise	6068 Oct 14 02:58	12° $\mathfrak{L}$ 52'06	
morning rise	6067 Nov 01 13:38	29° $\mathfrak{L}$ 56'11		direct	6068 Oct 16 10:52	12° $\mathfrak{L}$ 33'13	
direct	6067 Nov 03 20:28	29° $\mathfrak{L}$ 34'36		asc. node	6068 Oct 24 03:19	16° $\mathfrak{L}$ 11'54	
	6067 Nov 06 06:48	0° $\mathfrak{M}$		morning max el	6068 Oct 24 08:11	16° $\mathfrak{L}$ 23'30	18°22'27
asc. node	6067 Nov 07 06:16	0° $\mathfrak{M}$ 24'37			6068 Nov 02 22:15	0° $\mathfrak{M}$	
morning max el	6067 Nov 10 22:27	3° $\mathfrak{M}$ 07'56	17°55'56	morning set	6068 Nov 09 06:38	11° $\mathfrak{M}$ 48'02	
morning set	6067 Nov 26 16:00	27° $\mathfrak{M}$ 51'56					
	6067 Nov 27 20:00	0° $\mathfrak{X}$		superior conj	6068 Nov 18 09:32	29° $\mathfrak{M}$ 02'13	1°11'28
superior conj	6067 Dec 07 01:33	16° $\mathfrak{X}$ 33'02	0°42'33	minimum elong	6068 Nov 18 13:14	29° $\mathfrak{M}$ 19'13	1°11'04
minimum elong	6067 Dec 07 04:52	16° $\mathfrak{X}$ 47'28	0°42'06		6068 Nov 18 22:08	0° $\mathfrak{X}$	
desc. node	6067 Dec 13 02:25	26° $\mathfrak{X}$ 49'45		max. Earth dist.	6068 Nov 25 22:04	12° $\mathfrak{X}$ 24'49	1.40635 AU
max. Earth dist.	6067 Dec 14 13:35	29° $\mathfrak{X}$ 15'21	1.42593 AU	desc. node	6068 Nov 28 23:25	17° $\mathfrak{X}$ 35'26	
	6067 Dec 15 00:26	0° $\mathfrak{Z}$		evening rise	6068 Nov 30 10:06	19° $\mathfrak{X}$ 59'18	
evening rise	6067 Dec 20 20:35	9° $\mathfrak{Z}$ 23'58			6068 Dec 06 15:48	0° $\mathfrak{Z}$	
	6068 Jan 03 10:37	0° $\mathfrak{A}$			6068 Dec 27 17:21	0° $\mathfrak{A}$	
evening max el	6068 Jan 22 05:42	24° $\mathfrak{A}$ 28'31	22°09'17	evening max el	6069 Jan 03 20:55	8° $\mathfrak{A}$ 09'11	23°28'58
	6068 Jan 30 12:50	0° $\mathfrak{H}$		retrograde	6069 Jan 14 11:35	14° $\mathfrak{A}$ 25'16	
retrograde	6068 Jan 31 17:28	0° $\mathfrak{H}$ 06'52		evening set	6069 Jan 19 12:21	12° $\mathfrak{A}$ 20'16	
	6068 Feb 01 21:19	30° $\mathfrak{R}$ $\mathfrak{A}$		asc. node	6069 Jan 20 02:31	11° $\mathfrak{A}$ 48'42	
asc. node	6068 Feb 03 05:29	29° $\mathfrak{A}$ 34'08		inferior conj	6069 Jan 24 22:21	5° $\mathfrak{A}$ 54'28	1°33'24
evening set	6068 Feb 05 06:02	28° $\mathfrak{A}$ 17'11		minimum elong	6069 Jan 24 20:26	6° $\mathfrak{A}$ 01'04	1°32'42
inferior conj	6068 Feb 10 14:15	21° $\mathfrak{A}$ 56'33	2°15'11	min. Earth dist.	6069 Jan 24 09:59	6° $\mathfrak{A}$ 36'54	0.68131 AU
minimum elong	6068 Feb 10 11:56	22° $\mathfrak{A}$ 04'40	2°14'29		6069 Jan 29 22:50	30° $\mathfrak{R}$ $\mathfrak{Z}$	
min. Earth dist.	6068 Feb 10 13:12	22° $\mathfrak{A}$ 00'15	0.68182 AU	morning rise	6069 Jan 30 04:26	29° $\mathfrak{Z}$ 48'38	
morning rise	6068 Feb 15 17:39	15° $\mathfrak{A}$ 45'53		direct	6069 Feb 03 09:22	28° $\mathfrak{Z}$ 09'42	
direct	6068 Feb 20 12:35	13° $\mathfrak{A}$ 44'11			6069 Feb 08 06:42	0° $\mathfrak{A}$	
morning max el	6068 Mar 01 01:07	19° $\mathfrak{A}$ 20'32	22°20'56	morning max el	6069 Feb 11 17:38	2° $\mathfrak{A}$ 58'04	20°58'45
	6068 Mar 09 23:45	0° $\mathfrak{H}$		desc. node	6069 Feb 24 22:42	19° $\mathfrak{A}$ 46'40	
desc. node	6068 Mar 10 01:41	0° $\mathfrak{H}$ 06'22			6069 Mar 03 22:22	0° $\mathfrak{H}$	
	6068 Mar 30 10:13	0° $\mathfrak{Y}$		morning set	6069 Mar 14 00:26	15° $\mathfrak{H}$ 25'33	
morning set	6068 Apr 03 14:32	6° $\mathfrak{Y}$ 42'17		max. Earth dist.	6069 Mar 21 21:13	27° $\mathfrak{H}$ 58'50	1.42758 AU
max. Earth dist.	6068 Apr 08 17:47	15° $\mathfrak{Y}$ 13'00	1.40748 AU		6069 Mar 23 02:52	0° $\mathfrak{Y}$	
superior conj	6068 Apr 16 13:02	28° $\mathfrak{Y}$ 47'29	-1°53'39	superior conj	6069 Mar 28 22:44	9° $\mathfrak{Y}$ 43'28	-2°08'09
minimum elong	6068 Apr 16 18:06	29° $\mathfrak{Y}$ 10'10	1°53'14	minimum elong	6069 Mar 29 01:09	9° $\mathfrak{Y}$ 53'40	2°08'06
	6068 Apr 17 05:11	0° $\mathfrak{B}$		evening rise	6069 Apr 09 15:28	0° $\mathfrak{B}$ 12'41	
evening rise	6068 Apr 26 18:31	17° $\mathfrak{B}$ 40'35			6069 Apr 09 12:38	0° $\mathfrak{B}$	
asc. node	6068 May 01 04:44	25° $\mathfrak{B}$ 54'03		asc. node	6069 Apr 18 01:45	14° $\mathfrak{B}$ 59'29	
	6068 May 03 11:41	0° $\mathfrak{H}$		evening max el	6069 Apr 26 09:21	26° $\mathfrak{B}$ 29'51	18°06'27
evening max el	6068 May 12 21:59	13° $\mathfrak{H}$ 29'17	18°19'28	retrograde	6069 May 02 23:52	29° $\mathfrak{B}$ 52'42	
retrograde	6068 May 20 04:09	17° $\mathfrak{H}$ 06'29		evening set	6069 May 05 15:14	29° $\mathfrak{B}$ 20'16	
evening set	6068 May 22 12:30	16° $\mathfrak{H}$ 44'40		inferior conj	6069 May 12 05:10	24° $\mathfrak{B}$ 21'24	2°53'07
inferior conj	6068 May 29 18:54	12° $\mathfrak{H}$ 06'28	1°59'00	minimum elong	6069 May 12 08:04	24° $\mathfrak{B}$ 14'21	2°52'29

min. Earth dist.	6069 May 15 09:23	21°♄17'32	0.61110 AU	minimum elong	6070 Apr 25 08:53	7°♄04'38	3°21'22
morning rise	6069 May 18 22:47	18°♄25'01		min. Earth dist.	6070 Apr 27 22:39	4°♄15'48	0.63228 AU
desc. node	6069 May 23 21:57	16°♄18'47		morning rise	6070 May 01 10:42	1°♄00'07	
direct	6069 May 25 15:30	16°♄09'55			6070 May 02 21:18	30°♄00'07	
morning max el	6069 Jun 08 21:22	24°♄07'46	27°51'02	direct	6070 May 08 06:30	28°♄22'02	
	6069 Jun 14 04:33	0°♄		desc. node	6070 May 10 18:58	28°♄41'27	
	6069 Jul 03 19:47	0°♄			6070 May 14 02:29	0°♄	
morning set	6069 Jul 11 18:41	15°♄27'52		morning max el	6070 May 22 05:03	6°♄22'44	27°47'01
asc. node	6069 Jul 15 01:03	22°♄19'36			6070 Jun 09 04:12	0°♄	
max. Earth dist.	6069 Jul 17 17:07	28°♄06'12	1.32027 AU	morning set	6070 Jun 25 16:30	29°♄29'29	
	6069 Jul 18 13:55	0°♄			6070 Jun 25 22:35	0°♄	
				max. Earth dist.	6070 Jun 30 21:48	10°♄17'03	1.32661 AU
superior conj	6069 Jul 19 02:41	1°♄10'07	0°41'08	asc. node	6070 Jul 01 22:03	12°♄26'19	
minimum elong	6069 Jul 19 00:57	1°♄00'39	0°40'46				
evening rise	6069 Jul 25 22:00	16°♄02'07		superior conj	6070 Jul 03 10:29	15°♄42'17	0°15'40
	6069 Aug 01 19:25	0°♄		minimum elong	6070 Jul 03 09:44	15°♄38'14	0°15'28
desc. node	6069 Aug 19 21:11	26°♄44'36		behind sun begin	6070 Jul 03 08:26	15°♄31'13	
evening max el	6069 Aug 21 04:52	28°♄03'21	25°01'12	behind sun end	6070 Jul 03 11:02	15°♄45'16	
	6069 Aug 23 09:05	0°♄		evening rise	6070 Jul 10 09:49	0°♄47'11	
retrograde	6069 Sep 04 02:27	5°♄04'29			6070 Jul 10 00:57	0°♄	
evening set	6069 Sep 09 15:55	3°♄54'22			6070 Jul 26 14:12	0°♄	
min. Earth dist.	6069 Sep 14 16:17	1°♄11'13	0.57286 AU	evening max el	6070 Aug 02 16:55	8°♄26'01	23°25'07
	6069 Sep 16 11:29	30°♄00'00		desc. node	6070 Aug 06 18:12	11°♄49'49	
inferior conj	6069 Sep 17 14:04	29°♄15'30	-5°20'51	retrograde	6070 Aug 16 05:44	15°♄13'02	
minimum elong	6069 Sep 17 16:04	29°♄12'09	5°20'45	evening set	6070 Aug 20 07:38	14°♄36'34	
morning rise	6069 Sep 25 18:29	25°♄05'30		min. Earth dist.	6070 Aug 27 02:22	11°♄27'28	0.55703 AU
direct	6069 Sep 28 07:36	24°♄46'46		inferior conj	6070 Aug 29 00:57	10°♄18'46	-5°11'40
morning max el	6069 Oct 07 09:01	29°♄03'53	19°10'23	minimum elong	6070 Aug 28 20:14	10°♄25'45	5°11'10
	6069 Oct 08 07:35	0°♄		morning rise	6070 Sep 06 11:12	6°♄26'09	
asc. node	6069 Oct 11 00:21	3°♄09'44		direct	6070 Sep 09 08:44	6°♄05'42	
morning set	6069 Oct 24 06:24	26°♄09'13		morning max el	6070 Sep 19 22:16	11°♄00'46	20°20'28
	6069 Oct 26 04:46	0°♄		asc. node	6070 Sep 27 21:23	21°♄03'13	
					6070 Oct 03 01:19	0°♄	
superior conj	6069 Nov 01 11:27	12°♄23'08	1°30'25	morning set	6070 Oct 08 12:15	10°♄46'49	
minimum elong	6069 Nov 01 14:09	12°♄36'09	1°30'14				
max. Earth dist.	6069 Nov 08 03:34	24°♄53'13	1.38510 AU	superior conj	6070 Oct 16 02:27	26°♄21'57	1°40'27
	6069 Nov 11 00:25	0°♄		minimum elong	6070 Oct 16 03:40	26°♄28'06	1°40'25
evening rise	6069 Nov 11 22:11	1°♄35'03			6070 Oct 17 21:54	0°♄	
desc. node	6069 Nov 15 20:25	8°♄15'44		max. Earth dist.	6070 Oct 21 10:13	6°♄52'06	1.36466 AU
	6069 Nov 29 21:39	0°♄		evening rise	6070 Oct 25 06:55	14°♄06'38	
evening max el	6069 Dec 17 10:05	21°♄52'52	24°47'19	desc. node	6070 Nov 02 17:26	28°♄46'26	
retrograde	6069 Dec 29 01:42	28°♄39'39			6070 Nov 03 11:23	0°♄	
evening set	6070 Jan 03 15:42	26°♄20'11			6070 Nov 24 17:05	0°♄	
asc. node	6070 Jan 06 23:34	22°♄46'39		evening max el	6070 Nov 29 22:43	5°♄37'11	25°57'18
min. Earth dist.	6070 Jan 08 05:17	21°♄11'02	0.67704 AU	retrograde	6070 Dec 12 11:09	12°♄44'50	
inferior conj	6070 Jan 09 04:45	19°♄53'25	0°44'23	evening set	6070 Dec 18 14:23	10°♄13'31	
minimum elong	6070 Jan 09 03:42	19°♄56'54	0°43'59	min. Earth dist.	6070 Dec 22 20:54	5°♄39'12	0.66912 AU
morning rise	6070 Jan 14 15:53	13°♄54'19		inferior conj	6070 Dec 24 07:37	3°♄50'33	-0°11'02
direct	6070 Jan 18 07:53	12°♄37'06		minimum elong	6070 Dec 24 07:54	3°♄49'39	0°10'52
morning max el	6070 Jan 25 18:04	16°♄47'33	19°48'48	transit middle	6070 Dec 24 07:54	3°♄49'39	0°10'52
	6070 Feb 05 03:30	0°♄		transit begin	6070 Dec 24 05:49	3°♄56'14	
greatest brilliancy	6070 Feb 07 18:58	3°♄50'39	-0.6m	transit end	6070 Dec 24 10:00	3°♄43'05	
desc. node	6070 Feb 11 19:43	9°♄50'42		asc. node	6070 Dec 24 20:37	3°♄10'00	
morning set	6070 Feb 20 20:57	23°♄38'39			6070 Dec 27 15:08	30°♄00'00	
	6070 Feb 24 23:27	0°♄		morning rise	6070 Dec 30 01:58	28°♄00'18	
max. Earth dist.	6070 Mar 04 08:29	11°♄35'56	1.44294 AU	direct	6071 Jan 02 06:37	27°♄01'58	
					6071 Jan 08 06:33	0°♄	
superior conj	6070 Mar 09 07:09	19°♄32'05	-2°07'09	morning max el	6071 Jan 09 02:10	0°♄46'39	18°53'50
minimum elong	6070 Mar 09 03:35	19°♄17'36	2°07'04	desc. node	6071 Jan 29 16:43	0°♄11'52	
	6070 Mar 15 16:10	0°♄			6071 Jan 29 13:41	0°♄	
evening rise	6070 Mar 22 17:28	11°♄53'06		morning set	6071 Jan 31 04:54	2°♄33'10	
	6070 Apr 02 13:48	0°♄		max. Earth dist.	6071 Feb 15 01:01	25°♄45'54	1.45190 AU
asc. node	6070 Apr 04 22:46	3°♄35'02					
evening max el	6070 Apr 09 22:22	9°♄47'50	18°12'33	superior conj	6071 Feb 16 17:45	28°♄25'57	-1°46'28
retrograde	6070 Apr 16 07:58	13°♄11'21		minimum elong	6071 Feb 16 08:44	27°♄50'31	1°45'43
evening set	6070 Apr 19 05:51	12°♄26'50			6071 Feb 17 17:38	0°♄	
inferior conj	6070 Apr 25 07:23	7°♄08'44	3°21'33	evening rise	6071 Mar 03 20:47	22°♄35'29	

	6071 Mar 08 10:17	0°♿		greatest brilliancy	6072 Feb 23 14:32	20°♿20'21	-0.7m
asc. node	6071 Mar 22 19:49	21°♿30'35			6072 Mar 01 04:59	0°♿	
evening max el	6071 Mar 24 10:12	23°♿15'23	18°37'04	evening max el	6072 Mar 06 18:40	6°♿48'20	19°18'49
retrograde	6071 Mar 31 00:01	26°♿52'29		asc. node	6072 Mar 08 16:53	8°♿34'45	
evening set	6071 Apr 03 04:29	25°♿55'01		retrograde	6072 Mar 13 20:30	10°♿50'02	
inferior conj	6071 Apr 08 21:26	20°♿19'27	3°30'03	evening set	6072 Mar 17 08:19	9°♿38'48	
minimum elong	6071 Apr 08 21:25	20°♿19'32	3°30'02	inferior conj	6072 Mar 22 19:51	3°♿47'35	3°23'16
min. Earth dist.	6071 Apr 10 21:22	17°♿54'48	0.65050 AU	minimum elong	6072 Mar 22 18:36	3°♿51'38	3°23'09
morning rise	6071 Apr 14 13:42	14°♿05'13		min. Earth dist.	6072 Mar 24 04:33	2°♿01'35	0.66480 AU
direct	6071 Apr 21 05:23	11°♿16'36			6072 Mar 25 19:54	30°♿	
desc. node	6071 Apr 27 16:01	13°♿23'48		morning rise	6072 Mar 28 04:33	27°♿31'52	
morning max el	6071 May 04 15:10	19°♿09'41	27°08'36	direct	6072 Apr 03 10:50	24°♿45'28	
	6071 May 13 19:53	0°♿		desc. node	6072 Apr 13 13:02	29°♿53'07	
	6071 Jun 02 04:18	0°♿			6072 Apr 13 16:07	0°♿	
morning set	6071 Jun 09 04:59	13°♿00'23		morning max el	6072 Apr 16 01:05	2°♿16'12	26°03'19
max. Earth dist.	6071 Jun 13 17:25	21°♿58'55	1.33757 AU		6072 May 06 23:37	0°♿	
				morning set	6072 May 22 04:20	25°♿50'05	
superior conj	6071 Jun 17 13:18	29°♿55'00	-0°12'45		6072 May 24 09:38	0°♿	
minimum elong	6071 Jun 17 13:59	29°♿58'33	0°12'39	max. Earth dist.	6072 May 26 01:39	3°♿11'38	1.35324 AU
behind sun begin	6071 Jun 17 10:31	29°♿40'21					
behind sun end	6071 Jun 17 17:26	0°♿16'46		superior conj	6072 May 31 08:41	13°♿41'50	-0°42'54
	6071 Jun 17 14:15	0°♿		minimum elong	6072 May 31 11:06	13°♿54'06	0°42'29
asc. node	6071 Jun 18 19:04	2°♿32'10		asc. node	6072 Jun 04 16:07	22°♿33'25	
evening rise	6071 Jun 24 20:34	15°♿24'41		evening rise	6072 Jun 08 04:17	29°♿48'48	
	6071 Jul 02 04:38	0°♿			6072 Jun 08 06:28	0°♿	
evening max el	6071 Jul 15 08:35	18°♿48'03	21°48'45	evening max el	6072 Jun 26 11:14	29°♿40'57	20°25'01
desc. node	6071 Jul 24 15:14	24°♿36'18			6072 Jun 26 19:07	0°♿	
retrograde	6071 Jul 27 22:05	25°♿01'46		retrograde	6072 Jul 07 10:42	5°♿04'15	
evening set	6071 Jul 30 14:26	24°♿45'36		evening set	6072 Jul 09 10:09	4°♿54'31	
inferior conj	6071 Aug 08 21:03	20°♿43'53	-4°10'00	desc. node	6072 Jul 10 12:16	4°♿41'13	
minimum elong	6071 Aug 08 12:02	20°♿56'31	4°07'44	inferior conj	6072 Jul 18 14:50	0°♿57'10	-2°24'31
min. Earth dist.	6071 Aug 08 12:03	20°♿56'30	0.54841 AU	minimum elong	6072 Jul 18 08:10	1°♿06'52	2°22'10
morning rise	6071 Aug 17 11:01	16°♿53'19		min. Earth dist.	6072 Jul 19 23:18	0°♿09'57	0.54920 AU
direct	6071 Aug 20 19:36	16°♿28'36			6072 Jul 20 06:12	30°♿	
morning max el	6071 Sep 01 23:21	22°♿11'08	21°50'36	morning rise	6072 Jul 27 05:13	26°♿48'27	
	6071 Sep 08 16:24	0°♿		direct	6072 Jul 31 05:40	26°♿13'35	
asc. node	6071 Sep 14 18:25	9°♿39'11			6072 Aug 10 08:45	0°♿	
morning set	6071 Sep 22 21:50	25°♿34'01		morning max el	6072 Aug 13 15:22	2°♿44'01	23°33'25
	6071 Sep 25 00:22	0°♿		asc. node	6072 Aug 31 15:26	28°♿47'19	
					6072 Sep 01 06:30	0°♿	
superior conj	6071 Sep 30 02:35	10°♿46'51	1°42'47	morning set	6072 Sep 06 09:16	10°♿25'26	
minimum elong	6071 Sep 30 02:23	10°♿45'46	1°42'47				
max. Earth dist.	6071 Oct 03 23:02	18°♿44'04	1.34707 AU	superior conj	6072 Sep 13 08:49	25°♿28'28	1°38'33
evening rise	6071 Oct 08 08:21	27°♿24'07		minimum elong	6072 Sep 13 07:30	25°♿21'20	1°38'28
	6071 Oct 09 17:06	0°♿			6072 Sep 15 11:30	0°♿	
desc. node	6071 Oct 20 14:28	19°♿02'19		max. Earth dist.	6072 Sep 15 20:41	0°♿48'44	1.33352 AU
	6071 Oct 27 18:30	0°♿		evening rise	6072 Sep 20 22:25	11°♿16'44	
evening max el	6071 Nov 12 11:34	19°♿16'22	26°51'37		6072 Oct 01 00:25	0°♿	
retrograde	6071 Nov 25 15:17	26°♿34'06		desc. node	6072 Oct 06 11:30	8°♿56'13	
evening set	6071 Dec 02 06:28	23°♿55'57			6072 Oct 22 08:25	0°♿	
min. Earth dist.	6071 Dec 06 06:36	19°♿56'36	0.65761 AU	evening max el	6072 Oct 24 23:56	2°♿40'02	27°22'53
inferior conj	6071 Dec 08 04:55	17°♿42'06	-1°11'46	retrograde	6072 Nov 07 13:16	9°♿58'28	
minimum elong	6071 Dec 08 06:58	17°♿36'09	1°10'52	evening set	6072 Nov 14 13:25	7°♿21'02	
asc. node	6071 Dec 11 17:41	13°♿55'53		min. Earth dist.	6072 Nov 18 08:08	3°♿55'18	0.64272 AU
morning rise	6071 Dec 14 08:26	12°♿03'09		inferior conj	6072 Nov 20 18:12	1°♿21'53	-2°16'11
direct	6071 Dec 17 03:44	11°♿19'57		minimum elong	6072 Nov 20 22:15	1°♿11'09	2°14'33
morning max el	6071 Dec 23 15:56	14°♿49'54	18°15'13		6072 Nov 22 01:38	30°♿	
	6072 Jan 03 16:33	0°♿		morning rise	6072 Nov 27 08:30	25°♿57'14	
morning set	6072 Jan 11 16:44	12°♿53'40		asc. node	6072 Nov 27 14:44	25°♿51'00	
desc. node	6072 Jan 16 13:44	20°♿45'28		direct	6072 Nov 29 20:49	25°♿25'08	
	6072 Jan 22 08:47	0°♿		morning max el	6072 Dec 06 08:37	28°♿49'44	17°53'35
					6072 Dec 07 11:13	0°♿	
superior conj	6072 Jan 26 21:35	7°♿09'15	-1°08'15	morning set	6072 Dec 23 09:14	24°♿38'22	
minimum elong	6072 Jan 26 13:30	6°♿37'29	1°07'14		6072 Dec 26 13:22	0°♿	
max. Earth dist.	6072 Jan 28 20:02	10°♿11'34	1.45359 AU	desc. node	6073 Jan 02 10:46	11°♿26'49	
	6072 Feb 10 12:18	0°♿					
evening rise	6072 Feb 12 01:28	2°♿25'05		superior conj	6073 Jan 05 14:23	16°♿34'11	-0°22'07

minimum elong	6073 Jan 05 11:48	16°  23'47	0°21'43	evening rise	6074 Jan 01 02:34	21°  05'06	
max. Earth dist.	6073 Jan 10 15:05	24°  36'40	1.44793 AU		6074 Jan 06 22:16	0° 	
	6073 Jan 14 01:14	0° 			6074 Jan 28 06:30	0° 	
evening rise	6073 Jan 21 14:37	11°  42'51		evening max el	6074 Jan 31 20:17	3°  59'22	21°25'21
	6073 Feb 02 16:22	0° 		retrograde	6074 Feb 09 16:34	9°  13'51	
evening max el	6073 Feb 17 22:14	20°  23'21	20°15'55	asc. node	6074 Feb 10 10:59	9°  10'44	
asc. node	6073 Feb 23 13:57	24°  33'00		evening set	6074 Feb 13 22:54	7°  32'46	
retrograde	6073 Feb 25 18:42	24°  58'28		inferior conj	6074 Feb 19 06:47	1°  16'59	2°35'42
evening set	6073 Mar 01 15:04	23°  32'39		minimum elong	6074 Feb 19 04:25	1°  25'09	2°35'04
inferior conj	6073 Mar 06 23:44	17°  27'52	3°04'26	min. Earth dist.	6074 Feb 19 12:29	0°  57'10	0.68045 AU
minimum elong	6073 Mar 06 21:42	17°  34'45	3°04'04		6074 Feb 20 05:03	30° 	
min. Earth dist.	6073 Mar 07 18:17	16°  24'54	0.67478 AU	morning rise	6074 Feb 24 09:47	25°  04'35	
morning rise	6073 Mar 12 04:07	11°  13'02		direct	6074 Mar 01 13:04	22° 	
direct	6073 Mar 17 21:43	8°  39'20		morning max el	6074 Mar 11 19:05	28°  55'16	23°11'44
morning max el	6073 Mar 29 09:51	15°  32'24	24°40'57		6074 Mar 12 20:07	0° 	
desc. node	6073 Mar 31 10:04	17°  39'44		desc. node	6074 Mar 18 07:05	6°  21'58	
	6073 Apr 10 07:14	0° 			6074 Apr 04 01:29	0° 	
	6073 Apr 29 21:50	0° 		morning set	6074 Apr 15 14:50	18°  28'17	
morning set	6073 May 04 09:35	7°  44'29		max. Earth dist.	6074 Apr 19 20:05	25°  39'29	1.39490 AU
max. Earth dist.	6073 May 08 00:20	14°  13'50	1.37293 AU		6074 Apr 22 07:32	0° 	
superior conj	6073 May 14 17:31	26°  54'22	-1°13'05	superior conj	6074 Apr 27 11:47	9°  22'19	-1°40'34
minimum elong	6073 May 14 21:41	27°  14'36	1°12'27	minimum elong	6074 Apr 27 17:01	9°  46'29	1°39'59
	6073 May 16 07:29	0° 		evening rise	6074 May 07 00:27	27°  28'19	
asc. node	6073 May 22 13:10	12°  25'51			6074 May 08 08:04	0° 	
evening rise	6073 May 23 06:33	13°  52'43		asc. node	6074 May 09 10:12	2°  04'30	
	6073 May 31 19:56	0° 		evening max el	6074 May 23 04:29	23°  31'47	18°35'43
evening max el	6073 Jun 09 02:38	11°  26'40	19°20'09	retrograde	6074 May 31 00:58	27°  24'50	
retrograde	6073 Jun 18 08:44	15°  48'53		evening set	6074 Jun 02 05:07	27°  07'58	
evening set	6073 Jun 20 07:09	15°  37'52		inferior conj	6074 Jun 09 22:31	22°  41'08	1°14'20
desc. node	6073 Jun 27 09:17	12°  26'46		minimum elong	6074 Jun 10 01:03	22°  36'15	1°13'26
inferior conj	6073 Jun 28 20:31	11°  29'48	-0°26'27	min. Earth dist.	6074 Jun 13 06:41	20°  08'18	0.57678 AU
minimum elong	6073 Jun 28 19:22	11°  31'42	0°26'02	desc. node	6074 Jun 14 06:19	19°  26'21	
min. Earth dist.	6073 Jul 01 12:58	9°  44'34	0.55936 AU	morning rise	6074 Jun 17 17:39	17°  23'25	
morning rise	6073 Jul 07 04:45	6°  48'05		direct	6074 Jun 23 11:59	15°  25'55	
direct	6073 Jul 12 01:53	5°  53'49		morning max el	6074 Jul 07 21:11	23°  36'00	26°41'17
morning max el	6073 Jul 26 04:34	13°  30'24	25°15'46		6074 Jul 13 15:46	0° 	
	6073 Aug 08 09:41	0° 			6074 Aug 01 09:02	0° 	
asc. node	6073 Aug 18 12:27	18°  09'22		asc. node	6074 Aug 05 09:28	8°  07'43	
morning set	6073 Aug 21 20:55	25°  09'16		morning set	6074 Aug 06 07:05	10°  01'12	
	6073 Aug 24 01:41	0° 					
superior conj	6073 Aug 28 18:46	10°  09'39	1°28'37	superior conj	6074 Aug 13 06:25	25°  09'12	1°13'39
minimum elong	6073 Aug 28 16:45	10°  08'30	1°28'24	minimum elong	6074 Aug 13 04:07	25°  00'15	1°13'18
max. Earth dist.	6073 Aug 30 02:10	13°  09'11	1.32430 AU	max. Earth dist.	6074 Aug 13 12:11	25°  04'52	1.31935 AU
evening rise	6073 Sep 04 21:41	25°  34'57			6074 Aug 15 10:25	0° 	
	6073 Sep 07 01:51	0° 		evening rise	6074 Aug 20 03:13	10°  09'14	
desc. node	6073 Sep 23 08:32	28°  09'08			6074 Aug 30 08:32	0° 	
	6073 Sep 24 12:11	0° 		desc. node	6074 Sep 10 05:32	16°  05'39	
evening max el	6073 Oct 07 09:41	15°  35'10	27°24'44	evening max el	6074 Sep 19 13:56	27°  47'44	26°53'21
retrograde	6073 Oct 21 04:11	22°  49'24			6074 Sep 22 02:05	0° 	
evening set	6073 Oct 28 08:02	20°  22'27		retrograde	6074 Oct 03 11:21	4°  57'28	
min. Earth dist.	6073 Oct 31 23:35	17°  25'44	0.62484 AU	evening set	6074 Oct 10 10:09	2°  52'32	
inferior conj	6073 Nov 03 20:35	14°  43'03	-3°21'11	min. Earth dist.	6074 Oct 14 04:04	0°  14'37	0.60470 AU
minimum elong	6073 Nov 04 02:27	14°  29'11	3°19'13		6074 Oct 14 11:21	30° 	
morning rise	6073 Nov 10 22:41	9°  36'11		inferior conj	6074 Oct 17 08:41	27°  03'09	-4°21'20
direct	6073 Nov 13 06:44	9°  11'35		minimum elong	6074 Oct 17 15:16	27°  22'29	4°19'42
asc. node	6073 Nov 14 11:45	9°  18'22		morning rise	6074 Oct 24 22:30	22°  05'35	
morning max el	6073 Nov 20 01:10	12°  39'05	17°49'43	direct	6074 Oct 27 05:28	22°  03'02	
	6073 Dec 01 19:09	0° 		asc. node	6074 Nov 01 08:46	24°  01'22	
morning set	6073 Dec 06 00:23	7°  28'09		morning max el	6074 Nov 03 14:23	26°  09'21	18°04'46
					6074 Nov 06 21:57	0° 	
superior conj	6073 Dec 17 07:59	27°  27'05	0°21'18	morning set	6074 Nov 19 07:52	21°  03'45	
minimum elong	6073 Dec 17 09:59	27°  20'31	0°21'02		6074 Nov 24 03:14	0° 	
	6073 Dec 18 23:57	0° 					
desc. node	6073 Dec 20 07:48	2°  31'32		superior conj	6074 Nov 29 03:11	9°  24'05	0°56'05
max. Earth dist.	6073 Dec 24 07:29	8°  34'18	1.43558 AU	minimum elong	6074 Nov 29 06:54	9°  20'40	0°55'37
				max. Earth dist.	6074 Dec 06 18:55	22°  17'38	1.41795 AU

desc. node	6074 Dec 07 04:48	22° $\text{♄}$ 58'57		evening rise	6075 Nov 23 02:58	12° $\text{♄}$ 06'49	
	6074 Dec 11 11:26	0° $\text{♄}$		desc. node	6075 Nov 24 01:47	13° $\text{♄}$ 42'31	
evening rise	6074 Dec 12 03:58	1° $\text{♄}$ 06'30			6075 Dec 04 07:28	0° $\text{♄}$	
	6074 Dec 31 09:57	0° $\text{♄}$			6075 Dec 26 20:42	0° $\text{♄}$	
evening max el	6075 Jan 14 13:22	17° $\text{♄}$ 37'14	22°42'54	evening max el	6075 Dec 28 03:16	1° $\text{♄}$ 18'10	24°02'57
retrograde	6075 Jan 24 12:33	23° $\text{♄}$ 32'23		retrograde	6076 Jan 08 05:13	7° $\text{♄}$ 49'18	
asc. node	6075 Jan 28 08:00	22° $\text{♄}$ 17'38		evening set	6076 Jan 13 11:28	5° $\text{♄}$ 37'52	
evening set	6075 Jan 29 06:14	21° $\text{♄}$ 35'52		asc. node	6076 Jan 15 05:03	3° $\text{♄}$ 55'55	
inferior conj	6075 Feb 03 15:01	15° $\text{♄}$ 12'24	1°58'24	min. Earth dist.	6076 Jan 18 05:27	0° $\text{♄}$ 08'53	0.67983 AU
minimum elong	6075 Feb 03 12:48	15° $\text{♄}$ 20'05	1°57'40		6076 Jan 18 08:05	30° $\text{♄}$	
min. Earth dist.	6075 Feb 03 08:59	15° $\text{♄}$ 33'19	0.68202 AU	inferior conj	6076 Jan 18 22:36	29° $\text{♄}$ 10'50	1°13'26
morning rise	6075 Feb 08 19:16	9° $\text{♄}$ 03'45		minimum elong	6076 Jan 18 20:59	29° $\text{♄}$ 16'18	1°12'50
direct	6075 Feb 13 08:04	7° $\text{♄}$ 12'00		morning rise	6076 Jan 24 06:32	23° $\text{♄}$ 07'31	
morning max el	6075 Feb 22 08:08	12° $\text{♄}$ 27'05	21°44'53	direct	6076 Jan 28 05:41	21° $\text{♄}$ 38'14	
desc. node	6075 Mar 05 04:07	25° $\text{♄}$ 44'24		morning max el	6076 Feb 05 03:55	26° $\text{♄}$ 09'37	20°27'20
	6075 Mar 08 05:18	0° $\text{♄}$			6076 Feb 08 15:04	0° $\text{♄}$	
morning set	6075 Mar 26 15:58	27° $\text{♄}$ 53'07		desc. node	6076 Feb 20 01:06	15° $\text{♄}$ 35'22	
	6075 Mar 27 23:37	0° $\text{♄}$			6076 Feb 29 15:56	0° $\text{♄}$	
max. Earth dist.	6075 Apr 01 19:36	7° $\text{♄}$ 54'02	1.41640 AU	morning set	6076 Mar 04 17:26	6° $\text{♄}$ 15'05	
				max. Earth dist.	6076 Mar 14 01:56	21° $\text{♄}$ 00'55	1.43471 AU
superior conj	6075 Apr 09 10:46	20° $\text{♄}$ 54'58	-2°01'19		6076 Mar 19 14:05	0° $\text{♄}$	
minimum elong	6075 Apr 09 15:08	21° $\text{♄}$ 14'05	2°01'04				
	6075 Apr 14 13:13	0° $\text{♄}$		superior conj	6076 Mar 20 09:49	1° $\text{♄}$ 21'48	-2°09'58
evening rise	6075 Apr 20 06:20	10° $\text{♄}$ 26'59		minimum elong	6076 Mar 20 10:00	1° $\text{♄}$ 22'34	2°09'58
asc. node	6075 Apr 26 07:14	21° $\text{♄}$ 24'19		evening rise	6076 Apr 01 19:46	22° $\text{♄}$ 37'46	
	6075 May 01 12:42	0° $\text{♄}$			6076 Apr 06 00:51	0° $\text{♄}$	
evening max el	6075 May 06 13:24	6° $\text{♄}$ 18'43	18°11'29	asc. node	6076 Apr 12 04:16	10° $\text{♄}$ 18'08	
retrograde	6075 May 13 11:43	9° $\text{♄}$ 48'17		evening max el	6076 Apr 19 01:52	19° $\text{♄}$ 27'36	18°06'48
evening set	6075 May 15 22:58	9° $\text{♄}$ 22'20		retrograde	6076 Apr 25 13:11	22° $\text{♄}$ 49'05	
inferior conj	6075 May 22 21:54	4° $\text{♄}$ 35'10	2°25'25	evening set	6076 Apr 28 07:17	22° $\text{♄}$ 11'47	
minimum elong	6075 May 23 01:14	4° $\text{♄}$ 27'40	2°24'31	inferior conj	6076 May 04 15:29	17° $\text{♄}$ 04'52	3°07'53
min. Earth dist.	6075 May 26 06:45	1° $\text{♄}$ 35'14	0.59823 AU	minimum elong	6076 May 04 17:51	16° $\text{♄}$ 58'48	3°07'29
	6075 May 28 06:35	30° $\text{♄}$		min. Earth dist.	6076 May 07 14:52	14° $\text{♄}$ 02'45	0.62036 AU
morning rise	6075 May 30 00:45	28° $\text{♄}$ 49'26		morning rise	6076 May 11 02:40	11° $\text{♄}$ 02'08	
desc. node	6075 Jun 01 03:21	27° $\text{♄}$ 45'20		direct	6076 May 17 21:45	8° $\text{♄}$ 35'31	
direct	6075 Jun 05 11:28	26° $\text{♄}$ 52'05		desc. node	6076 May 18 00:23	8° $\text{♄}$ 35'33	
	6075 Jun 14 04:09	0° $\text{♄}$		morning max el	6076 Jun 01 01:09	16° $\text{♄}$ 36'30	27°53'45
morning max el	6075 Jun 19 20:13	4° $\text{♄}$ 45'22	27°36'09		6076 Jun 12 02:12	0° $\text{♄}$	
	6075 Jul 08 12:36	0° $\text{♄}$			6076 Jun 30 04:51	0° $\text{♄}$	
morning set	6075 Jul 21 14:06	24° $\text{♄}$ 34'13		morning set	6076 Jul 04 15:57	8° $\text{♄}$ 49'11	
asc. node	6075 Jul 23 06:30	28° $\text{♄}$ 06'58		asc. node	6076 Jul 09 03:32	18° $\text{♄}$ 12'10	
	6075 Jul 24 03:39	0° $\text{♄}$		max. Earth dist.	6076 Jul 10 06:55	20° $\text{♄}$ 39'36	1.32238 AU
max. Earth dist.	6075 Jul 27 23:05	8° $\text{♄}$ 18'23	1.31868 AU				
				superior conj	6076 Jul 12 03:42	24° $\text{♄}$ 42'58	0°30'45
superior conj	6075 Jul 28 17:58	10° $\text{♄}$ 02'37	0°54'11	minimum elong	6076 Jul 12 02:20	24° $\text{♄}$ 35'30	0°30'26
minimum elong	6075 Jul 28 15:54	9° $\text{♄}$ 51'12	0°53'47		6076 Jul 14 13:37	0° $\text{♄}$	
evening rise	6075 Aug 04 12:44	24° $\text{♄}$ 52'39		evening rise	6076 Jul 19 00:15	9° $\text{♄}$ 38'46	
	6075 Aug 06 23:22	0° $\text{♄}$			6076 Jul 29 10:17	0° $\text{♄}$	
	6075 Aug 24 11:22	0° $\text{♄}$		evening max el	6076 Aug 13 00:36	19° $\text{♄}$ 50'06	24°21'27
desc. node	6075 Aug 28 02:33	4° $\text{♄}$ 34'00		desc. node	6076 Aug 13 23:34	20° $\text{♄}$ 43'41	
evening max el	6075 Sep 01 10:37	9° $\text{♄}$ 10'39	25°49'36	retrograde	6076 Aug 26 20:18	26° $\text{♄}$ 47'17	
retrograde	6075 Sep 15 09:30	16° $\text{♄}$ 16'25		evening set	6076 Aug 31 19:08	25° $\text{♄}$ 52'48	
evening set	6075 Sep 21 14:55	14° $\text{♄}$ 44'33		min. Earth dist.	6076 Sep 06 11:37	23° $\text{♄}$ 00'10	0.56541 AU
min. Earth dist.	6075 Sep 25 23:00	12° $\text{♄}$ 08'39	0.58398 AU	inferior conj	6076 Sep 09 01:23	21° $\text{♄}$ 23'02	-5°22'53
inferior conj	6075 Sep 29 03:03	9° $\text{♄}$ 51'56	-5°06'57	minimum elong	6076 Sep 09 00:40	21° $\text{♄}$ 24'10	5°22'52
minimum elong	6075 Sep 29 07:47	9° $\text{♄}$ 43'22	5°06'19	morning rise	6076 Sep 17 08:33	17° $\text{♄}$ 21'23	
morning rise	6075 Oct 07 02:59	5° $\text{♄}$ 29'24		direct	6076 Sep 20 00:41	17° $\text{♄}$ 02'17	
direct	6075 Oct 09 12:30	5° $\text{♄}$ 10'58		morning max el	6076 Sep 29 17:04	21° $\text{♄}$ 34'44	19°37'29
morning max el	6075 Oct 17 20:48	9° $\text{♄}$ 11'12	18°40'13	asc. node	6076 Oct 05 02:50	27° $\text{♄}$ 59'53	
asc. node	6075 Oct 19 05:48	10° $\text{♄}$ 36'15			6076 Oct 06 11:24	0° $\text{♄}$	
	6075 Oct 31 10:15	0° $\text{♄}$		morning set	6076 Oct 17 05:29	19° $\text{♄}$ 40'30	
morning set	6075 Nov 03 02:45	5° $\text{♄}$ 11'03			6076 Oct 22 08:06	0° $\text{♄}$	
				superior conj	6076 Oct 25 03:30	5° $\text{♄}$ 35'58	1°35'41
superior conj	6075 Nov 11 19:25	21° $\text{♄}$ 56'55	1°20'41	minimum elong	6076 Oct 25 05:35	5° $\text{♄}$ 46'14	1°35'34
minimum elong	6075 Nov 11 22:48	22° $\text{♄}$ 12'47	1°20'21	max. Earth dist.	6076 Oct 31 06:21	17° $\text{♄}$ 19'36	1.37615 AU
	6075 Nov 16 04:17	0° $\text{♄}$		evening rise	6076 Nov 04 00:23	24° $\text{♄}$ 08'21	
max. Earth dist.	6075 Nov 19 01:18	5° $\text{♄}$ 07'03	1.39728 AU				

	6076 Nov 07 09:07	0°♊		superior conj	6077 Oct 08 22:50	19°♎47'16	1°42'18
desc. node	6076 Nov 09 22:48	4°♊19'41		minimum elong	6077 Oct 08 23:25	19°♎50'18	1°42'18
	6076 Nov 27 00:16	0°♊		max. Earth dist.	6077 Oct 13 15:27	29°♎14'21	1.35681 AU
evening max el	6076 Dec 09 16:10	15°♊03'17	25°18'39		6077 Oct 14 00:46	0°♎	
retrograde	6076 Dec 21 17:32	22°♊00'32		evening rise	6077 Oct 17 16:49	7°♎01'20	
evening set	6076 Dec 27 13:03	19°♊35'52		desc. node	6077 Oct 27 19:50	24°♎45'06	
min. Earth dist.	6076 Dec 31 23:37	14°♊41'10	0.67406 AU		6077 Oct 31 02:36	0°♊	
asc. node	6077 Jan 01 02:05	14°♊33'15		evening max el	6077 Nov 22 05:10	28°♊47'23	26°22'46
inferior conj	6077 Jan 02 03:46	13°♊09'59	0°21'37		6077 Nov 23 12:10	0°♊	
minimum elong	6077 Jan 02 03:13	13°♊11'45	0°21'26	retrograde	6077 Dec 05 00:37	5°♊59'43	
morning rise	6077 Jan 07 17:40	7°♊14'05		evening set	6077 Dec 11 09:11	3°♊25'02	
direct	6077 Jan 11 04:37	6°♊05'14			6077 Dec 14 18:32	30°♊♊	
morning max el	6077 Jan 18 07:41	10°♊03'31	19°23'26	min. Earth dist.	6077 Dec 15 13:02	29°♊05'30	0.66471 AU
greatest brilliancy	6077 Jan 31 11:06	27°♊31'05	-0.7m	inferior conj	6077 Dec 17 04:32	27°♊05'29	-0°36'11
	6077 Feb 02 02:44	0°♊		minimum elong	6077 Dec 17 05:32	27°♊02'29	0°35'43
desc. node	6077 Feb 05 22:07	5°♊47'31		asc. node	6077 Dec 18 23:08	24°♊59'19	
morning set	6077 Feb 11 15:44	14°♊36'51		morning rise	6077 Dec 23 02:32	21°♊19'31	
	6077 Feb 21 13:00	0°♊		direct	6077 Dec 26 03:03	20°♊27'56	
max. Earth dist.	6077 Feb 24 15:21	4°♊52'35	1.44761 AU	morning max el	6078 Jan 01 18:26	24°♊04'49	18°35'20
					6078 Jan 06 16:52	0°♊	
superior conj	6077 Feb 28 07:56	10°♊44'08	-2°00'53	morning set	6078 Jan 22 10:37	24°♊05'51	
minimum elong	6077 Feb 28 01:34	10°♊18'46	2°00'32	desc. node	6078 Jan 23 19:08	26°♊14'32	
	6077 Mar 12 04:14	0°♊			6078 Jan 26 04:13	0°♊	
evening rise	6077 Mar 14 12:22	3°♊53'10					
asc. node	6077 Mar 30 01:19	28°♊37'56		superior conj	6078 Feb 07 13:10	19°♊26'23	-1°31'57
	6077 Mar 31 02:38	0°♊		minimum elong	6078 Feb 07 03:40	18°♊49'06	1°30'58
evening max el	6077 Apr 02 14:46	2°♊50'37	18°20'52	max. Earth dist.	6078 Feb 07 09:44	19°♊12'54	1.45359 AU
retrograde	6077 Apr 09 01:00	6°♊18'04			6078 Feb 14 06:34	0°♊	
evening set	6077 Apr 12 01:43	5°♊28'06		evening rise	6078 Feb 23 05:40	14°♊11'35	
inferior conj	6077 Apr 17 23:11	0°♊02'35	3°27'14	greatest brilliancy	6078 Mar 03 19:02	27°♊48'16	-0.8m
minimum elong	6077 Apr 18 00:01	0°♊00'11	3°27'10		6078 Mar 05 04:36	0°♊	
	6077 Apr 18 00:05	30°♊♊		asc. node	6078 Mar 16 22:21	16°♊13'16	
min. Earth dist.	6077 Apr 20 08:07	27°♊19'54	0.64052 AU	evening max el	6078 Mar 17 01:26	16°♊21'08	18°52'51
morning rise	6077 Apr 23 21:24	23°♊51'11		retrograde	6078 Mar 23 19:18	20°♊07'08	
direct	6077 Apr 30 16:26	21°♊06'47		evening set	6078 Mar 27 02:53	19°♊03'42	
desc. node	6077 May 04 21:25	22°♊01'10		inferior conj	6078 Apr 01 17:09	13°♊21'10	3°28'49
morning max el	6077 May 14 09:57	29°♊05'22	27°34'26	minimum elong	6078 Apr 01 16:34	13°♊23'00	3°28'47
	6077 May 15 07:14	0°♊		min. Earth dist.	6078 Apr 03 10:26	11°♊12'23	0.65710 AU
	6077 Jun 05 23:25	0°♊		morning rise	6078 Apr 07 05:49	7°♊06'10	
morning set	6077 Jun 18 10:12	22°♊38'47		direct	6078 Apr 13 18:02	4°♊17'17	
	6077 Jun 22 01:32	0°♊		desc. node	6078 Apr 21 18:28	7°♊33'06	
max. Earth dist.	6077 Jun 23 08:02	2°♊38'17	1.33069 AU	morning max el	6078 Apr 26 20:10	12°♊01'56	26°43'42
					6078 May 11 04:51	0°♊	
superior conj	6077 Jun 26 09:42	9°♊07'57	0°03'57		6078 May 29 13:45	0°♊	
minimum elong	6077 Jun 26 09:30	9°♊06'55	0°03'52	morning set	6078 Jun 01 17:39	5°♊53'52	
behind sun begin	6077 Jun 26 04:15	8°♊38'48		max. Earth dist.	6078 Jun 05 23:12	14°♊08'29	1.34369 AU
behind sun end	6077 Jun 26 14:46	9°♊35'04					
asc. node	6077 Jun 26 00:33	8°♊19'07		superior conj	6078 Jun 10 09:44	23°♊11'06	-0°25'23
evening rise	6077 Jul 03 11:52	24°♊21'34		minimum elong	6078 Jun 10 11:07	23°♊18'18	0°25'08
	6077 Jul 06 04:48	0°♊		asc. node	6078 Jun 12 21:36	28°♊23'57	
	6077 Jul 25 09:38	0°♊			6078 Jun 13 15:52	0°♊	
evening max el	6077 Jul 25 13:22	0°♊09'08	22°43'20	evening rise	6078 Jun 17 21:39	8°♊54'55	
desc. node	6077 Jul 31 20:38	4°♊54'33			6078 Jun 29 02:29	0°♊	
retrograde	6077 Aug 07 18:09	6°♊43'50		evening max el	6078 Jul 07 09:07	10°♊41'52	21°11'05
evening set	6077 Aug 11 04:30	6°♊18'04		desc. node	6078 Jul 18 17:40	16°♊34'35	
min. Earth dist.	6077 Aug 18 21:15	2°♊53'49	0.55234 AU	retrograde	6078 Jul 19 07:24	16°♊35'23	
inferior conj	6077 Aug 20 04:58	2°♊08'32	-4°52'05	evening set	6078 Jul 21 14:30	16°♊23'05	
minimum elong	6077 Aug 19 21:44	2°♊18'53	4°50'51	inferior conj	6078 Jul 30 22:18	12°♊24'57	-3°29'11
	6077 Aug 24 03:56	30°♊♊		minimum elong	6078 Jul 30 13:31	12°♊37'17	3°26'30
morning rise	6077 Aug 28 16:59	28°♊18'54		min. Earth dist.	6078 Jul 31 07:04	12°♊12'37	0.54759 AU
direct	6077 Aug 31 19:05	27°♊56'52		morning rise	6078 Aug 08 13:07	8°♊29'36	
	6077 Sep 07 20:04	0°♊		direct	6078 Aug 12 03:55	8°♊01'29	
morning max el	6077 Sep 12 00:56	3°♊11'34	20°56'33	morning max el	6078 Aug 24 21:30	14°♊04'06	22°33'22
asc. node	6077 Sep 21 23:52	16°♊13'08			6078 Sep 05 23:47	0°♊	
	6077 Sep 29 09:41	0°♊		asc. node	6078 Sep 08 20:55	5°♊04'18	
morning set	6077 Oct 01 13:14	4°♊23'22		morning set	6078 Sep 15 23:52	19°♊13'35	
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































































































































superior conj	6078 Sep 23 01:54	4° $\Omega$ 20'32	1°41'44	superior conj	6079 Sep 07 09:59	19° $\Pi$ 07'11	1°34'59
minimum elong	6078 Sep 23 01:11	4° $\Omega$ 16'41	1°41'43	minimum elong	6079 Sep 07 08:18	18° $\Pi$ 58'04	1°34'52
max. Earth dist.	6078 Sep 26 08:16	11° $\Omega$ 11'51	1.34085 AU	max. Earth dist.	6079 Sep 09 09:24	23° $\Pi$ 23'44	1.32904 AU
evening rise	6078 Oct 01 00:05	20° $\Omega$ 35'06			6079 Sep 12 12:07	0° $\Omega$	
	6078 Oct 05 23:40	0° $\Pi$		evening rise	6079 Sep 14 18:24	4° $\Omega$ 39'24	
desc. node	6078 Oct 14 16:52	14° $\Pi$ 52'47			6079 Sep 28 15:58	0° $\Pi$	
	6078 Oct 25 01:11	0° $\mathcal{A}$		desc. node	6079 Oct 01 13:54	4° $\Pi$ 35'00	
evening max el	6078 Nov 04 17:57	12° $\mathcal{A}$ 21'18	27°07'58	evening max el	6079 Oct 18 05:16	25° $\Pi$ 33'50	27°27'26
retrograde	6078 Nov 18 01:59	19° $\mathcal{A}$ 39'36			6079 Oct 23 17:08	0° $\mathcal{A}$	
evening set	6078 Nov 24 21:41	17° $\mathcal{A}$ 00'34		retrograde	6079 Oct 31 21:13	2° $\mathcal{A}$ 51'29	
min. Earth dist.	6078 Nov 28 19:21	13° $\mathcal{A}$ 16'03	0.65179 AU	evening set	6079 Nov 07 23:52	0° $\mathcal{A}$ 16'46	
inferior conj	6078 Nov 30 22:43	10° $\mathcal{A}$ 52'35	-1°38'45		6079 Nov 08 08:57	30° $\mathcal{R}\Pi$	
minimum elong	6078 Dec 01 01:36	10° $\mathcal{A}$ 44'30	1°37'31	min. Earth dist.	6079 Nov 11 16:39	27° $\Pi$ 04'32	0.63547 AU
asc. node	6078 Dec 05 20:11	6° $\mathcal{A}$ 10'00		inferior conj	6079 Nov 14 07:44	24° $\Pi$ 25'26	-2°43'55
morning rise	6078 Dec 07 06:41	5° $\mathcal{A}$ 19'30		minimum elong	6079 Nov 14 12:37	24° $\Pi$ 13'05	2°42'05
direct	6078 Dec 09 22:48	4° $\mathcal{A}$ 41'25		morning rise	6079 Nov 21 03:02	19° $\Pi$ 08'16	
morning max el	6078 Dec 16 09:49	8° $\mathcal{A}$ 07'35	18°03'53	asc. node	6079 Nov 22 17:13	18° $\Pi$ 43'16	
	6078 Dec 31 09:26	0° $\mathcal{B}$		direct	6079 Nov 23 13:06	18° $\Pi$ 39'53	
morning set	6079 Jan 03 11:06	5° $\mathcal{B}$ 03'53		morning max el	6079 Nov 30 02:55	22° $\Pi$ 04'40	17°49'43
desc. node	6079 Jan 10 16:09	16° $\mathcal{B}$ 51'51			6079 Dec 06 05:57	0° $\mathcal{A}$	
				morning set	6079 Dec 16 14:04	17° $\mathcal{A}$ 19'00	
superior conj	6079 Jan 17 20:14	28° $\mathcal{B}$ 21'02	-0°48'55		6079 Dec 23 23:45	0° $\mathcal{B}$	
minimum elong	6079 Jan 17 14:17	27° $\mathcal{B}$ 57'30	0°48'06				
	6079 Jan 18 21:14	0° $\approx$		superior conj	6079 Dec 28 22:59	8° $\mathcal{B}$ 16'17	-0°02'56
max. Earth dist.	6079 Jan 21 05:30	3° $\approx$ 41'45	1.45209 AU	minimum elong	6079 Dec 28 22:41	8° $\mathcal{B}$ 15'02	0°02'51
evening rise	6079 Feb 03 02:22	23° $\approx$ 44'00		behind sun begin	6079 Dec 28 13:10	7° $\mathcal{B}$ 35'54	
	6079 Feb 07 03:49	0° $\mathcal{H}$		behind sun end	6079 Dec 29 08:11	8° $\mathcal{B}$ 54'05	
greatest brilliancy	6079 Feb 16 11:32	14° $\mathcal{H}$ 11'12	-0.7m	desc. node	6079 Dec 28 13:09	7° $\mathcal{B}$ 35'49	
	6079 Feb 28 10:00	0° $\mathcal{Y}$		max. Earth dist.	6080 Jan 03 23:28	18° $\mathcal{B}$ 00'57	1.44338 AU
evening max el	6079 Feb 28 07:51	29° $\mathcal{H}$ 54'30	19°41'22		6080 Jan 11 14:37	0° $\approx$	
asc. node	6079 Mar 03 19:24	2° $\mathcal{Y}$ 50'59		evening rise	6080 Jan 13 13:03	2° $\approx$ 59'08	
retrograde	6079 Mar 07 16:52	4° $\mathcal{Y}$ 09'43			6080 Jan 31 16:46	0° $\mathcal{H}$	
evening set	6079 Mar 11 08:10	2° $\mathcal{Y}$ 52'14		evening max el	6080 Feb 11 08:58	13° $\mathcal{H}$ 29'56	20°44'07
	6079 Mar 14 07:52	30° $\mathcal{R}\mathcal{H}$		asc. node	6080 Feb 18 16:27	18° $\mathcal{H}$ 17'05	
inferior conj	6079 Mar 16 18:10	26° $\mathcal{H}$ 54'41	3°16'38	retrograde	6080 Feb 19 15:15	18° $\mathcal{H}$ 21'53	
minimum elong	6079 Mar 16 16:32	27° $\mathcal{H}$ 00'06	3°16'24	evening set	6080 Feb 23 15:35	16° $\mathcal{H}$ 49'45	
min. Earth dist.	6079 Mar 17 20:36	25° $\mathcal{H}$ 26'59	0.66952 AU	inferior conj	6080 Feb 28 23:40	10° $\mathcal{H}$ 39'47	2°53'23
morning rise	6079 Mar 22 00:39	20° $\mathcal{H}$ 39'04		minimum elong	6080 Feb 28 21:27	10° $\mathcal{H}$ 47'25	2°52'53
direct	6079 Mar 28 01:41	17° $\mathcal{H}$ 57'19		min. Earth dist.	6080 Feb 29 12:37	9° $\mathcal{H}$ 55'14	0.67767 AU
desc. node	6079 Apr 08 15:29	24° $\mathcal{H}$ 38'16		morning rise	6080 Mar 05 03:06	4° $\mathcal{H}$ 25'31	
morning max el	6079 Apr 09 05:45	25° $\mathcal{H}$ 13'53	25°29'55	direct	6080 Mar 10 14:37	1° $\mathcal{H}$ 59'30	
	6079 Apr 13 13:48	0° $\mathcal{Y}$		morning max el	6080 Mar 21 14:30	8° $\mathcal{H}$ 33'43	24°03'13
	6079 May 04 16:47	0° $\mathcal{B}$		desc. node	6080 Mar 25 12:29	12° $\mathcal{H}$ 51'06	
morning set	6079 May 15 09:56	18° $\mathcal{B}$ 21'35			6080 Apr 07 10:22	0° $\mathcal{Y}$	
max. Earth dist.	6079 May 19 03:08	25° $\mathcal{B}$ 14'27	1.36115 AU	morning set	6080 Apr 26 05:40	29° $\mathcal{Y}$ 47'55	
	6079 May 21 14:52	0° $\Pi$			6080 Apr 26 08:28	0° $\mathcal{B}$	
				max. Earth dist.	6080 Apr 29 23:17	6° $\mathcal{B}$ 20'58	1.38211 AU
superior conj	6079 May 25 00:59	6° $\Pi$ 43'49	-0°55'51				
minimum elong	6079 May 25 04:10	6° $\Pi$ 59'43	0°55'17	superior conj	6080 May 07 04:04	19° $\mathcal{B}$ 38'15	-1°25'18
asc. node	6079 May 30 18:38	18° $\Pi$ 21'49		minimum elong	6080 May 07 08:50	20° $\mathcal{B}$ 00'55	1°24'38
evening rise	6079 Jun 02 03:20	23° $\Pi$ 11'10			6080 May 12 12:22	0° $\Pi$	
	6079 Jun 05 13:03	0° $\mathcal{B}$		evening rise	6080 May 16 02:23	7° $\Pi$ 03'39	
evening max el	6079 Jun 19 17:05	21° $\mathcal{B}$ 51'40	19°54'58	asc. node	6080 May 16 15:39	8° $\Pi$ 08'47	
retrograde	6079 Jun 29 22:53	26° $\mathcal{B}$ 53'07			6080 May 29 07:02	0° $\mathcal{B}$	
evening set	6079 Jul 01 20:19	26° $\mathcal{B}$ 43'34		evening max el	6080 Jun 01 13:16	3° $\mathcal{B}$ 44'37	18°58'47
desc. node	6079 Jul 05 14:43	25° $\mathcal{B}$ 33'32		retrograde	6080 Jun 10 03:56	7° $\mathcal{B}$ 58'19	
inferior conj	6079 Jul 10 19:35	22° $\mathcal{B}$ 42'50	-1°33'57	evening set	6080 Jun 12 04:14	7° $\mathcal{B}$ 45'24	
minimum elong	6079 Jul 10 15:13	22° $\mathcal{B}$ 49'29	1°32'20	inferior conj	6080 Jun 20 09:16	3° $\mathcal{B}$ 30'15	0°19'35
min. Earth dist.	6079 Jul 12 19:12	21° $\mathcal{B}$ 30'30	0.55240 AU	minimum elong	6080 Jun 20 10:03	3° $\mathcal{B}$ 28'53	0°19'15
morning rise	6079 Jul 19 08:16	18° $\mathcal{B}$ 21'10		desc. node	6080 Jun 21 11:44	2° $\mathcal{B}$ 43'39	
direct	6079 Jul 23 16:41	17° $\mathcal{B}$ 39'39		min. Earth dist.	6080 Jun 23 10:39	1° $\mathcal{B}$ 22'28	0.56601 AU
morning max el	6079 Aug 06 11:39	24° $\mathcal{B}$ 27'58	24°18'00		6080 Jun 25 14:44	30° $\mathcal{R}\Pi$	
	6079 Aug 11 13:50	0° $\mathcal{Q}$		morning rise	6080 Jun 28 12:32	28° $\Pi$ 32'23	
asc. node	6079 Aug 26 17:56	24° $\mathcal{Q}$ 23'26		direct	6080 Jul 03 18:58	27° $\Pi$ 26'30	
	6079 Aug 29 12:41	0° $\Pi$			6080 Jul 11 23:07	0° $\mathcal{B}$	
morning set	6079 Aug 31 11:34	4° $\Pi$ 05'32		morning max el	6080 Jul 18 01:42	4° $\mathcal{B}$ 49'22	25°55'08
					6080 Aug 05 06:59	0° $\mathcal{Q}$	

asc. node	6080 Aug 12 14:56	14°♌02'52		morning set	6081 Jul 30 07:47	3°♌34'38	
morning set	6080 Aug 14 22:45	18°♌54'10		asc. node	6081 Jul 30 11:58	3°♌56'36	
	6080 Aug 20 01:21	0°♍					
superior conj	6080 Aug 21 20:51	3°♍59'58	1°22'52	superior conj	6081 Aug 06 08:41	18°♌52'48	1°05'56
minimum elong	6080 Aug 21 18:40	3°♍47'51	1°22'34	minimum elong	6081 Aug 06 06:26	18°♌40'20	1°05'32
max. Earth dist.	6080 Aug 22 16:58	5°♍50'45	1.32160 AU	max. Earth dist.	6081 Aug 06 03:46	18°♌25'35	1.31849 AU
evening rise	6080 Aug 28 20:36	19°♍05'13			6081 Aug 11 10:08	0°♍	
	6080 Sep 03 07:27	0°♎		evening rise	6081 Aug 13 04:07	3°♍44'48	
desc. node	6080 Sep 17 10:56	23°♎40'59			6081 Aug 27 03:01	0°♎	
	6080 Sep 22 03:25	0°♏		desc. node	6081 Sep 04 07:57	11°♎56'10	
evening max el	6080 Sep 29 12:57	8°♏12'15	27°15'37	evening max el	6081 Sep 11 14:25	20°♎05'36	26°30'07
retrograde	6080 Oct 13 09:20	15°♏25'15		retrograde	6081 Sep 25 12:49	27°♎13'12	
evening set	6080 Oct 20 12:05	13°♏06'13		evening set	6081 Oct 02 05:45	25°♎21'36	
min. Earth dist.	6080 Oct 24 03:37	10°♏18'59	0.61641 AU	min. Earth dist.	6081 Oct 06 04:02	22°♎46'36	0.59580 AU
inferior conj	6080 Oct 27 04:29	7°♏36'00	-3°47'49	inferior conj	6081 Oct 09 09:32	20°♎15'24	-4°43'17
minimum elong	6080 Oct 27 10:52	7°♏21'40	3°45'52	minimum elong	6081 Oct 09 15:45	20°♎03'14	4°42'01
morning rise	6080 Nov 03 11:40	2°♏37'50		morning rise	6081 Oct 17 03:53	15°♎39'09	
direct	6080 Nov 05 18:40	2°♏15'36		direct	6081 Oct 19 11:26	15°♎19'58	
asc. node	6080 Nov 08 14:15	2°♏50'27		asc. node	6081 Oct 26 11:16	18°♎25'34	
morning max el	6080 Nov 12 18:29	5°♏47'18	17°53'40	morning max el	6081 Oct 27 05:13	19°♎07'00	18°17'11
	6080 Nov 28 06:10	0°♐			6081 Nov 04 04:51	0°♏	
morning set	6080 Nov 28 12:53	0°♐30'26		morning set	6081 Nov 12 01:49	14°♏21'52	
					6081 Nov 20 09:18	0°♐	
superior conj	6080 Dec 09 03:50	19°♐26'55	0°37'15	superior conj	6081 Nov 21 08:40	1°♐46'58	1°07'45
minimum elong	6080 Dec 09 06:53	19°♐40'08	0°36'51	minimum elong	6081 Nov 21 12:26	2°♐04'06	1°07'18
desc. node	6080 Dec 14 10:09	28°♐22'22		max. Earth dist.	6081 Nov 28 22:47	15°♐10'27	1.40948 AU
	6080 Dec 15 09:42	0°♑		desc. node	6081 Dec 01 07:10	19°♐08'23	
max. Earth dist.	6080 Dec 16 13:26	1°♑54'04	1.42860 AU	evening rise	6081 Dec 03 15:25	23°♐00'54	
evening rise	6080 Dec 23 05:11	12°♑34'39			6081 Dec 07 23:42	0°♑	
	6081 Jan 03 16:03	0°♒			6081 Dec 28 16:07	0°♒	
evening max el	6081 Jan 24 04:47	27°♒06'53	21°57'40	evening max el	6082 Jan 06 20:28	10°♒46'47	23°17'00
	6081 Jan 27 09:16	0°♓		retrograde	6082 Jan 17 07:03	16°♒57'23	
retrograde	6081 Feb 02 12:29	2°♓38'58		evening set	6082 Jan 22 06:00	14°♒54'31	
asc. node	6081 Feb 04 13:29	2°♓17'03		asc. node	6082 Jan 22 10:32	14°♒44'49	
evening set	6081 Feb 06 23:23	0°♓51'34		min. Earth dist.	6082 Jan 27 04:54	9°♒06'15	0.68166 AU
	6081 Feb 07 22:19	30°♓♐		inferior conj	6082 Jan 27 15:39	8°♒29'16	1°40'11
inferior conj	6081 Feb 12 07:28	24°♒32'10	2°20'51	minimum elong	6082 Jan 27 13:38	8°♒36'13	1°39'29
minimum elong	6081 Feb 12 05:07	24°♒40'21	2°20'09	morning rise	6082 Feb 01 21:11	2°♒22'43	
min. Earth dist.	6081 Feb 12 08:09	24°♒29'46	0.68164 AU	direct	6082 Feb 06 04:09	0°♒40'29	
morning rise	6081 Feb 17 10:40	18°♒21'01		morning max el	6082 Feb 14 16:15	5°♒35'15	21°10'19
direct	6081 Feb 22 07:49	16°♒15'53		desc. node	6082 Feb 27 06:29	21°♒27'42	
morning max el	6081 Mar 04 00:44	21°♒59'31	22°33'52		6082 Mar 05 04:00	0°♓	
	6081 Mar 10 22:48	0°♔		morning set	6082 Mar 17 12:38	18°♓51'00	
desc. node	6081 Mar 12 09:29	1°♔52'02			6082 Mar 24 11:43	0°♕	
	6081 Mar 31 17:50	0°♖		max. Earth dist.	6082 Mar 24 21:59	0°♖41'57	1.42482 AU
morning set	6081 Apr 06 23:06	9°♖58'00					
max. Earth dist.	6081 Apr 11 19:23	18°♖03'10	1.40430 AU	superior conj	6082 Apr 01 04:01	12°♖49'59	-2°06'49
	6081 Apr 18 15:35	0°♗		minimum elong	6082 Apr 01 07:04	13°♖02'59	2°06'43
superior conj	6081 Apr 19 14:44	1°♗44'09	-1°50'29		6082 Apr 10 22:13	0°♗	
minimum elong	6081 Apr 19 19:55	2°♗07'35	1°50'02	evening rise	6082 Apr 12 15:02	3°♗03'47	
evening rise	6081 Apr 29 15:37	20°♗24'20		asc. node	6082 Apr 20 09:45	16°♗49'50	
asc. node	6081 May 03 12:42	27°♗40'08		evening max el	6082 Apr 29 05:29	29°♗12'17	18°07'08
	6081 May 04 19:17	0°♘			6082 Apr 30 02:01	0°♘	
evening max el	6081 May 15 18:38	16°♘14'47	18°23'02	retrograde	6082 May 05 21:39	2°♘36'27	
retrograde	6081 May 23 04:03	19°♘55'25		evening set	6082 May 08 11:59	2°♘05'44	
evening set	6081 May 25 11:20	19°♘34'57			6082 May 11 23:28	30°♘♐	
inferior conj	6081 Jun 01 20:30	14°♘59'41	1°48'15	inferior conj	6082 May 15 04:06	27°♘09'45	2°46'38
minimum elong	6081 Jun 01 23:41	14°♘53'08	1°47'14	minimum elong	6082 May 15 07:09	27°♘02'28	2°45'57
min. Earth dist.	6081 Jun 05 06:43	12°♘12'18	0.58564 AU	min. Earth dist.	6082 May 18 09:43	24°♘06'13	0.60777 AU
desc. node	6081 Jun 08 08:45	10°♘03'09		morning rise	6082 May 22 00:04	21°♘15'48	
morning rise	6081 Jun 09 08:52	9°♘29'03		desc. node	6082 May 26 05:47	19°♘22'06	
direct	6081 Jun 15 11:20	7°♘50'52		direct	6082 May 28 15:26	19°♘05'13	
morning max el	6081 Jun 29 20:36	15°♘35'15	27°08'58	morning max el	6082 Jun 11 22:13	27°♘01'56	27°48'27
	6081 Jul 11 13:27	0°♙			6082 Jun 14 17:43	0°♘	
	6081 Jul 28 14:29	0°♚		morning set	6082 Jul 05 04:41	0°♙	
					6082 Jul 14 12:50	18°♙00'34	

asc. node	6082 Jul 17 08:59	23° $\overline{58}$ '51			6083 Jun 27 10:36	0° $\overline{56}$	
	6082 Jul 20 03:45	0° $\overline{56}$		morning set	6083 Jun 28 11:48	2° $\overline{56}$ '05'59	
max. Earth dist.	6082 Jul 20 14:01	0° $\overline{56}$ '08	1.31973 AU	max. Earth dist.	6083 Jul 03 19:39	13° $\overline{56}$ '10'02	1.32539 AU
				asc. node	6083 Jul 04 06:02	14° $\overline{56}$ '05'31	
superior conj	6082 Jul 21 19:40	3° $\overline{56}$ '39'00	0°44'43				
minimum elong	6082 Jul 21 17:50	3° $\overline{56}$ '28'56	0°44'19	superior conj	6083 Jul 06 04:02	18° $\overline{56}$ '13'26	0°19'45
evening rise	6082 Jul 28 14:44	18° $\overline{56}$ '30'14		minimum elong	6083 Jul 06 03:07	18° $\overline{56}$ '08'25	0°19'30
	6082 Aug 03 05:22	0° $\overline{56}$			6083 Jul 11 14:03	0° $\overline{56}$	
desc. node	6082 Aug 22 05:00	28° $\overline{56}$ '59'06		evening rise	6083 Jul 13 02:32	3° $\overline{56}$ '15'41	
	6082 Aug 23 04:19	0° $\overline{56}$			6083 Jul 27 12:41	0° $\overline{56}$	
evening max el	6082 Aug 24 07:59	1° $\overline{56}$ '08'17	25°14'23	evening max el	6083 Aug 05 20:11	11° $\overline{56}$ '33'48	23°39'47
retrograde	6082 Sep 07 05:56	8° $\overline{56}$ '10'43		desc. node	6083 Aug 09 02:03	14° $\overline{56}$ '22'08	
evening set	6082 Sep 13 00:03	6° $\overline{56}$ '54'51		retrograde	6083 Aug 19 11:18	18° $\overline{56}$ '24'16	
min. Earth dist.	6082 Sep 17 19:31	4° $\overline{56}$ '14'16	0.57565 AU	evening set	6083 Aug 23 18:40	17° $\overline{56}$ '43'29	
inferior conj	6082 Sep 20 19:28	2° $\overline{56}$ '12'34	-5°18'23	min. Earth dist.	6083 Aug 30 06:08	14° $\overline{56}$ '39'00	0.55898 AU
minimum elong	6082 Sep 20 22:18	2° $\overline{56}$ '07'45	5°18'11	inferior conj	6083 Sep 01 09:10	13° $\overline{56}$ '22'34	-5°16'17
	6082 Sep 24 06:03	30° $\overline{56}$ ' $\overline{R}$		minimum elong	6083 Sep 01 05:28	13° $\overline{56}$ '28'07	5°16'00
morning rise	6082 Sep 28 22:50	27° $\overline{56}$ ' $\overline{R}$ 59'31		morning rise	6083 Sep 09 18:42	9° $\overline{56}$ '28'05	
direct	6082 Oct 01 10:57	27° $\overline{56}$ ' $\overline{R}$ 40'54		direct	6083 Sep 12 14:41	9° $\overline{56}$ '08'07	
	6082 Oct 08 01:05	0° $\overline{56}$		morning max el	6083 Sep 22 22:42	13° $\overline{56}$ '57'01	20°08'43
morning max el	6082 Oct 10 07:35	1° $\overline{56}$ '53'08	19°01'55	asc. node	6083 Sep 30 05:19	22° $\overline{56}$ '59'20	
asc. node	6082 Oct 13 08:17	5° $\overline{56}$ '13'28			6083 Oct 04 09:51	0° $\overline{56}$	
morning set	6082 Oct 27 00:27	28° $\overline{56}$ '39'52		morning set	6083 Oct 11 05:32	13° $\overline{56}$ '15'22	
	6082 Oct 27 16:39	0° $\overline{56}$					
superior conj	6082 Nov 04 08:16	15° $\overline{56}$ '01'17	1°28'09	superior conj	6083 Oct 18 21:36	28° $\overline{56}$ '55'18	1°39'26
minimum elong	6082 Nov 04 11:10	15° $\overline{56}$ '15'09	1°27'54	minimum elong	6083 Oct 18 23:02	29° $\overline{56}$ '02'34	1°39'23
max. Earth dist.	6082 Nov 11 04:31	27° $\overline{56}$ ' $\overline{M}$ 44'39	1.38824 AU		6083 Oct 19 10:30	0° $\overline{56}$	
	6082 Nov 12 10:53	0° $\overline{56}$		max. Earth dist.	6083 Oct 24 10:25	9° $\overline{56}$ '45'35	1.36751 AU
evening rise	6082 Nov 15 00:10	4° $\overline{56}$ ' $\overline{X}$ 27'37		evening rise	6083 Oct 28 06:03	16° $\overline{56}$ '51'35	
desc. node	6082 Nov 18 04:12	9° $\overline{56}$ ' $\overline{X}$ 49'52			6083 Nov 04 19:48	0° $\overline{56}$	
	6082 Dec 01 02:15	0° $\overline{56}$		desc. node	6083 Nov 05 01:15	0° $\overline{56}$ ' $\overline{X}$ 22'33	
evening max el	6082 Dec 20 09:45	24° $\overline{56}$ ' $\overline{Z}$ 30'04	24°36'01		6083 Nov 25 12:16	0° $\overline{56}$	
	6082 Dec 27 11:09	0° $\overline{56}$		evening max el	6083 Dec 02 22:22	8° $\overline{56}$ '14'37	25°47'47
retrograde	6082 Dec 31 21:55	1° $\overline{56}$ ' $\approx$ 13'08		retrograde	6083 Dec 15 08:12	15° $\overline{56}$ ' $\overline{Z}$ 20'20	
	6083 Jan 04 22:54	30° $\overline{56}$ ' $\overline{R}$ $\overline{Z}$		evening set	6083 Dec 21 09:27	12° $\overline{56}$ ' $\overline{Z}$ 50'34	
evening set	6083 Jan 06 09:56	28° $\overline{56}$ ' $\overline{Z}$ 55'34		min. Earth dist.	6083 Dec 25 16:57	8° $\overline{56}$ '10'58	0.67047 AU
asc. node	6083 Jan 09 07:34	25° $\overline{56}$ ' $\overline{Z}$ 52'46		inferior conj	6083 Dec 27 01:59	6° $\overline{56}$ ' $\overline{Z}$ 26'34	-0°02'13
min. Earth dist.	6083 Jan 11 00:35	23° $\overline{56}$ ' $\overline{Z}$ 41'22	0.67788 AU	minimum elong	6083 Dec 27 02:03	6° $\overline{56}$ ' $\overline{Z}$ 26'24	0°02'10
inferior conj	6083 Jan 11 22:27	22° $\overline{56}$ ' $\overline{Z}$ 28'33	0°52'15	transit middle	6083 Dec 27 02:03	6° $\overline{56}$ ' $\overline{Z}$ 26'24	0°02'10
minimum elong	6083 Jan 11 21:14	22° $\overline{56}$ ' $\overline{Z}$ 32'36	0°51'47	transit begin	6083 Dec 26 23:15	6° $\overline{56}$ ' $\overline{Z}$ 35'16	
morning rise	6083 Jan 17 08:41	16° $\overline{56}$ ' $\overline{Z}$ 28'25		transit end	6083 Dec 27 04:51	6° $\overline{56}$ ' $\overline{Z}$ 17'32	
direct	6083 Jan 21 02:29	15° $\overline{56}$ ' $\overline{Z}$ 08'12		asc. node	6083 Dec 27 04:37	6° $\overline{56}$ ' $\overline{Z}$ 18'16	
morning max el	6083 Jan 28 15:35	19° $\overline{56}$ ' $\overline{Z}$ 23'39	19°58'19	morning rise	6084 Jan 01 19:07	0° $\overline{56}$ ' $\overline{Z}$ 34'46	
	6083 Feb 06 05:47	0° $\overline{56}$			6084 Jan 02 22:05	30° $\overline{56}$ ' $\overline{R}$ $\overline{X}$	
desc. node	6083 Feb 14 03:30	11° $\overline{56}$ ' $\approx$ 28'46		direct	6084 Jan 05 01:18	29° $\overline{56}$ ' $\overline{X}$ 33'55	
morning set	6083 Feb 24 09:42	27° $\overline{56}$ ' $\approx$ 04'36			6084 Jan 07 05:59	0° $\overline{56}$	
	6083 Feb 26 07:05	0° $\overline{56}$		morning max el	6084 Jan 11 22:38	3° $\overline{56}$ ' $\overline{Z}$ 21'53	19°01'00
max. Earth dist.	6083 Mar 07 08:10	14° $\overline{56}$ ' $\overline{X}$ 12'27	1.44100 AU		6084 Jan 30 20:44	0° $\overline{56}$	
				desc. node	6084 Feb 01 00:30	1° $\overline{56}$ ' $\approx$ 47'51	
superior conj	6083 Mar 12 16:13	22° $\overline{56}$ ' $\overline{X}$ 48'33	-2°08'32	morning set	6084 Feb 03 14:30	5° $\overline{56}$ ' $\approx$ 49'02	
minimum elong	6083 Mar 12 13:40	22° $\overline{56}$ ' $\overline{X}$ 38'10	2°08'29	max. Earth dist.	6084 Feb 17 23:47	28° $\overline{56}$ ' $\approx$ 17'44	1.45101 AU
	6083 Mar 17 01:04	0° $\overline{56}$			6084 Feb 19 01:47	0° $\overline{56}$	
evening rise	6083 Mar 25 20:11	14° $\overline{56}$ ' $\overline{Y}$ 52'46		superior conj	6084 Feb 20 05:27	1° $\overline{56}$ ' $\overline{X}$ 49'01	-1°50'54
	6083 Apr 03 18:15	0° $\overline{56}$		minimum elong	6084 Feb 19 20:57	1° $\overline{56}$ '15'29	1°50'14
asc. node	6083 Apr 07 06:48	5° $\overline{56}$ ' $\overline{Y}$ 30'48		evening rise	6084 Mar 06 03:00	25° $\overline{56}$ ' $\overline{X}$ 43'51	
evening max el	6083 Apr 12 18:28	12° $\overline{56}$ ' $\overline{Y}$ 28'21	18°10'28		6084 Mar 08 17:41	0° $\overline{56}$	
retrograde	6083 Apr 19 04:17	15° $\overline{56}$ ' $\overline{Y}$ 51'02		asc. node	6084 Mar 24 03:52	23° $\overline{56}$ ' $\overline{Y}$ 33'16	
evening set	6083 Apr 22 01:08	15° $\overline{56}$ ' $\overline{Y}$ 08'30		evening max el	6084 Mar 26 06:39	25° $\overline{56}$ ' $\overline{Y}$ 55'00	18°32'18
inferior conj	6083 Apr 28 04:17	9° $\overline{56}$ ' $\overline{Y}$ 53'12	3°18'34	retrograde	6084 Apr 01 19:20	29° $\overline{56}$ ' $\overline{Y}$ 29'16	
minimum elong	6083 Apr 28 06:01	9° $\overline{56}$ ' $\overline{Y}$ 48'31	3°18'21	evening set	6084 Apr 04 22:47	28° $\overline{56}$ ' $\overline{Y}$ 33'50	
min. Earth dist.	6083 Apr 30 21:43	6° $\overline{56}$ ' $\overline{Y}$ 57'15	0.62926 AU	inferior conj	6084 Apr 10 16:49	23° $\overline{56}$ ' $\overline{Y}$ 00'54	3°29'47
morning rise	6083 May 04 09:32	3° $\overline{56}$ ' $\overline{Y}$ 45'44		minimum elong	6084 Apr 10 17:00	23° $\overline{56}$ ' $\overline{Y}$ 00'20	3°29'46
direct	6083 May 11 05:20	1° $\overline{56}$ ' $\overline{Y}$ 10'17		min. Earth dist.	6084 Apr 12 19:08	20° $\overline{56}$ ' $\overline{Y}$ 31'04	0.64805 AU
desc. node	6083 May 13 02:48	1° $\overline{56}$ ' $\overline{Y}$ 21'16		morning rise	6084 Apr 16 10:31	16° $\overline{56}$ ' $\overline{Y}$ 47'11	
morning max el	6083 May 25 05:25	9° $\overline{56}$ ' $\overline{Y}$ 11'37	27°49'53	direct	6084 Apr 23 03:14	13° $\overline{56}$ ' $\overline{Y}$ 59'09	
	6083 Jun 10 08:32	0° $\overline{56}$		desc. node	6084 Apr 28 23:50	15° $\overline{56}$ ' $\overline{Y}$ 44'32	

morning max el	6084 May 06 15:16	21° $\Upsilon$ 54'20	27°16'09	direct	6085 Apr 06 07:46	27° $\text{X}$ 23'37	
	6084 May 13 17:01	0° $\text{B}$			6085 Apr 13 06:47	0° $\Upsilon$	
	6084 Jun 02 13:21	0° $\Pi$		desc. node	6085 Apr 15 20:51	1° $\Upsilon$ 59'42	
morning set	6084 Jun 11 01:54	15° $\Pi$ 42'17		morning max el	6085 Apr 19 01:12	4° $\Upsilon$ 58'18	26°14'20
max. Earth dist.	6084 Jun 15 16:42	24° $\Pi$ 56'07	1.33563 AU		6085 May 08 05:07	0° $\text{B}$	
	6084 Jun 18 03:18	0° $\text{E}$		morning set	6085 May 25 03:28	28° $\text{B}$ 38'55	
					6085 May 25 20:47	0° $\Pi$	
superior conj	6084 Jun 19 07:46	2° $\text{E}$ 29'46	-0°08'18	max. Earth dist.	6085 May 29 02:36	6° $\Pi$ 12'33	1.35061 AU
minimum elong	6084 Jun 19 08:12	2° $\text{E}$ 32'04	0°08'14				
behind sun begin	6084 Jun 19 03:25	2° $\text{E}$ 06'47		superior conj	6085 Jun 03 04:26	16° $\Pi$ 21'11	-0°38'18
behind sun end	6084 Jun 19 12:59	2° $\text{E}$ 57'22		minimum elong	6085 Jun 03 06:35	16° $\Pi$ 32'07	0°37'53
asc. node	6084 Jun 20 03:05	4° $\text{E}$ 12'07		asc. node	6085 Jun 07 00:08	24° $\Pi$ 14'35	
evening rise	6084 Jun 26 13:34	17° $\text{E}$ 54'51			6085 Jun 09 18:31	0° $\text{E}$	
	6084 Jul 02 13:09	0° $\Omega$		evening rise	6085 Jun 10 21:52	2° $\text{E}$ 21'35	
evening max el	6084 Jul 17 10:53	21° $\Omega$ 54'29	22°02'35		6085 Jun 27 00:04	0° $\Omega$	
desc. node	6084 Jul 25 23:04	27° $\Omega$ 32'04		evening max el	6085 Jun 29 11:41	2° $\Omega$ 41'52	20°36'24
retrograde	6084 Jul 30 04:59	28° $\Omega$ 14'18		retrograde	6085 Jul 10 17:11	8° $\Omega$ 13'00	
evening set	6084 Aug 02 01:26	27° $\Omega$ 56'11		evening set	6085 Jul 12 18:05	8° $\Omega$ 02'52	
min. Earth dist.	6084 Aug 10 15:53	24° $\Omega$ 13'59	0.54911 AU	desc. node	6085 Jul 12 20:06	8° $\Omega$ 02'01	
inferior conj	6084 Aug 11 06:55	23° $\Omega$ 52'51	-4°22'46	inferior conj	6085 Jul 22 00:05	4° $\Omega$ 05'58	-2°42'13
minimum elong	6084 Aug 10 22:09	24° $\Omega$ 05'11	4°20'42	minimum elong	6085 Jul 21 16:42	4° $\Omega$ 16'34	2°39'41
morning rise	6084 Aug 19 20:25	20° $\Omega$ 03'04		min. Earth dist.	6085 Jul 23 02:39	3° $\Omega$ 27'47	0.54846 AU
direct	6084 Aug 23 03:11	19° $\Omega$ 39'11		morning rise	6085 Jul 30 14:45	0° $\Omega$ 01'23	
morning max el	6084 Sep 04 01:31	25° $\Omega$ 14'39	21°36'06		6085 Jul 30 16:48	30° $\text{R}$ $\text{E}$	
	6084 Sep 08 10:26	0° $\text{P}$		direct	6085 Aug 03 12:39	29° $\text{E}$ 28'28	
asc. node	6084 Sep 16 02:21	11° $\text{P}$ 30'09			6085 Aug 07 06:37	0° $\Omega$	
morning set	6084 Sep 24 14:43	28° $\text{P}$ 01'58		morning max el	6085 Aug 16 18:27	5° $\Omega$ 51'54	23°17'45
	6084 Sep 25 13:17	0° $\text{A}$		asc. node	6085 Sep 02 23:23	0° $\text{P}$ 34'23	
					6085 Sep 02 16:06	0° $\text{P}$	
superior conj	6084 Oct 01 20:36	13° $\text{A}$ 17'23	1°42'52	morning set	6085 Sep 09 01:59	12° $\text{P}$ 53'23	
minimum elong	6084 Oct 01 20:35	13° $\text{A}$ 17'21	1°42'53				
max. Earth dist.	6084 Oct 05 22:06	21° $\text{A}$ 37'45	1.34945 AU	superior conj	6085 Sep 16 02:03	27° $\text{P}$ 57'07	1°39'34
evening rise	6084 Oct 10 05:18	0° $\text{M}$ 03'37		minimum elong	6085 Sep 16 00:53	27° $\text{P}$ 50'48	1°39'31
	6084 Oct 10 04:33	0° $\text{M}$			6085 Sep 17 00:59	0° $\text{A}$	
desc. node	6084 Oct 21 22:17	20° $\text{M}$ 41'28		max. Earth dist.	6085 Sep 18 18:36	3° $\text{A}$ 40'53	1.33529 AU
	6084 Oct 27 22:19	0° $\text{J}$		evening rise	6085 Sep 23 17:43	13° $\text{A}$ 51'50	
evening max el	6084 Nov 14 11:19	21° $\text{J}$ 55'52	26°44'51		6085 Oct 02 09:01	0° $\text{M}$	
retrograde	6084 Nov 27 13:11	29° $\text{J}$ 12'36		desc. node	6085 Oct 08 19:18	10° $\text{M}$ 39'25	
evening set	6084 Dec 04 02:39	26° $\text{J}$ 35'15			6085 Oct 22 21:43	0° $\text{J}$	
min. Earth dist.	6084 Dec 08 03:44	22° $\text{J}$ 30'35	0.65954 AU	evening max el	6085 Oct 27 23:53	5° $\text{J}$ 22'53	27°19'56
inferior conj	6084 Dec 10 00:15	20° $\text{J}$ 19'40	-1°02'13	retrograde	6085 Nov 10 11:55	12° $\text{J}$ 41'11	
minimum elong	6084 Dec 10 02:01	20° $\text{J}$ 14'29	1°01'26	evening set	6085 Nov 17 11:05	10° $\text{J}$ 03'09	
asc. node	6084 Dec 13 01:38	16° $\text{J}$ 57'33		min. Earth dist.	6085 Nov 21 06:35	6° $\text{J}$ 32'36	0.64519 AU
morning rise	6084 Dec 16 02:16	14° $\text{J}$ 38'42		inferior conj	6085 Nov 23 14:52	4° $\text{J}$ 01'36	-2°06'15
direct	6084 Dec 18 22:51	13° $\text{J}$ 53'26		minimum elong	6085 Nov 23 18:37	3° $\text{J}$ 51'32	2°04'44
morning max el	6084 Dec 25 11:40	17° $\text{J}$ 25'00	18°19'53		6085 Nov 27 19:21	30° $\text{R}$ $\text{M}$	
	6085 Jan 03 21:41	0° $\text{Z}$		asc. node	6085 Nov 29 22:39	28° $\text{M}$ 39'58	
morning set	6085 Jan 13 21:51	15° $\text{Z}$ 56'14		morning rise	6085 Nov 30 03:28	28° $\text{M}$ 34'33	
desc. node	6085 Jan 17 21:32	22° $\text{Z}$ 20'06		direct	6085 Dec 02 16:43	28° $\text{M}$ 00'59	
	6085 Jan 22 17:03	0° $\approx$			6085 Dec 07 13:37	0° $\text{J}$	
				morning max el	6085 Dec 09 04:03	1° $\text{J}$ 25'39	17°55'41
superior conj	6085 Jan 29 09:01	10° $\approx$ 30'35	-1°14'49	morning set	6085 Dec 26 10:21	27° $\text{J}$ 29'30	
minimum elong	6085 Jan 29 00:21	9° $\approx$ 56'35	1°13'48		6085 Dec 27 22:10	0° $\text{Z}$	
max. Earth dist.	6085 Jan 30 18:40	12° $\approx$ 42'28	1.45386 AU	desc. node	6086 Jan 04 18:33	13° $\text{Z}$ 00'36	
	6085 Feb 10 19:54	0° $\text{X}$					
evening rise	6085 Feb 14 10:47	5° $\text{X}$ 40'30		superior conj	6086 Jan 08 22:45	19° $\text{Z}$ 46'16	-0°29'08
greatest brilliancy	6085 Feb 25 06:39	22° $\text{X}$ 35'01	-0.8m	minimum elong	6086 Jan 08 19:18	19° $\text{Z}$ 32'24	0°28'37
	6085 Mar 02 05:27	0° $\Upsilon$		max. Earth dist.	6086 Jan 13 14:03	27° $\text{Z}$ 09'29	1.44925 AU
evening max el	6085 Mar 09 15:46	9° $\Upsilon$ 27'39	19°11'33		6086 Jan 15 09:20	0° $\approx$	
asc. node	6085 Mar 11 00:54	10° $\Upsilon$ 46'07		evening rise	6086 Jan 25 01:27	15° $\approx$ 01'10	
retrograde	6085 Mar 16 15:16	13° $\Upsilon$ 24'47			6086 Feb 03 21:34	0° $\text{X}$	
evening set	6085 Mar 20 01:58	12° $\Upsilon$ 15'36		greatest brilliancy	6086 Feb 08 18:24	7° $\text{X}$ 14'18	-0.6m
inferior conj	6085 Mar 25 14:08	6° $\Upsilon$ 26'40	3°25'07	evening max el	6086 Feb 20 20:07	23° $\text{X}$ 02'43	20°06'32
minimum elong	6085 Mar 25 13:03	6° $\Upsilon$ 30'09	3°25'00	asc. node	6086 Feb 25 21:54	26° $\text{X}$ 55'36	
min. Earth dist.	6085 Mar 27 01:03	4° $\Upsilon$ 34'30	0.66300 AU	retrograde	6086 Feb 28 13:21	27° $\text{X}$ 32'18	
morning rise	6085 Mar 30 23:46	0° $\Upsilon$ 11'05		evening set	6086 Mar 04 08:24	26° $\text{X}$ 08'35	
	6085 Mar 31 04:48	30° $\text{R}$ $\text{X}$		inferior conj	6086 Mar 09 17:20	20° $\text{X}$ 05'37	3°07'59

minimum elong	6086 Mar 09 15:24	20° $\text{H}$ 12'09	3°07'38	minimum elong	6087 Feb 21 21:42	4° $\text{H}$ 01'48	2°40'03
min. Earth dist.	6086 Mar 10 13:52	18° $\text{H}$ 56'18	0.67357 AU	min. Earth dist.	6087 Feb 22 07:33	3° $\text{H}$ 27'40	0.67982 AU
morning rise	6086 Mar 14 22:11	13° $\text{H}$ 50'38			6087 Feb 24 22:28	30° $\text{R}$ $\approx$	
direct	6086 Mar 20 17:47	11° $\text{H}$ 14'39		morning rise	6087 Feb 27 03:03	27° $\approx$ 40'50	
morning max el	6086 Apr 01 10:09	18° $\text{H}$ 13'56	24°53'59	direct	6087 Mar 04 08:27	25° $\approx$ 23'31	
desc. node	6086 Apr 02 17:52	19° $\text{H}$ 36'33			6087 Mar 13 03:12	0° $\text{H}$	
	6086 Apr 11 07:39	0° $\text{Y}$		morning max el	6087 Mar 14 19:12	1° $\text{H}$ 36'15	23°25'08
	6086 May 01 06:24	0° $\text{B}$		desc. node	6087 Mar 20 14:52	8° $\text{H}$ 11'35	
morning set	6086 May 07 11:47	10° $\text{B}$ 42'55			6087 Apr 05 07:21	0° $\text{Y}$	
max. Earth dist.	6086 May 11 02:38	17° $\text{B}$ 15'52	1.36981 AU	morning set	6087 Apr 18 20:59	21° $\text{Y}$ 38'23	
				max. Earth dist.	6087 Apr 22 22:25	28° $\text{Y}$ 36'28	1.39157 AU
					6087 Apr 23 17:28	0° $\text{B}$	
superior conj	6086 May 17 15:04	29° $\text{B}$ 39'48	-1°08'37				
minimum elong	6086 May 17 19:00	29° $\text{B}$ 59'00	1°07'59	superior conj	6087 Apr 30 11:45	12° $\text{B}$ 15'00	-1°36'43
	6086 May 17 19:12	0° $\text{II}$		minimum elong	6087 Apr 30 16:55	12° $\text{B}$ 39'03	1°36'07
asc. node	6086 May 24 21:09	14° $\text{II}$ 08'56		evening rise	6087 May 09 20:29	0° $\text{II}$ 10'02	
evening rise	6086 May 26 01:08	16° $\text{II}$ 29'30			6087 May 09 18:25	0° $\text{II}$	
	6086 Jun 02 01:46	0° $\text{E}$		asc. node	6087 May 11 18:11	3° $\text{II}$ 50'04	
evening max el	6086 Jun 12 01:11	14° $\text{E}$ 11'06	19°28'29	evening max el	6087 May 26 01:39	26° $\text{II}$ 20'41	18°41'01
retrograde	6086 Jun 21 13:13	18° $\text{E}$ 50'38			6087 May 31 20:04	0° $\text{E}$	
evening set	6086 Jun 23 11:07	18° $\text{E}$ 40'07		retrograde	6087 Jun 03 02:34	0° $\text{E}$ 18'46	
desc. node	6086 Jun 29 17:08	16° $\text{E}$ 04'42		evening set	6087 Jun 05 05:36	0° $\text{E}$ 03'05	
inferior conj	6086 Jul 02 03:15	14° $\text{E}$ 34'09	-0°43'44		6087 Jun 05 10:29	30° $\text{R}$ $\text{II}$	
minimum elong	6086 Jul 02 01:18	14° $\text{E}$ 37'18	0°43'02	inferior conj	6087 Jun 13 02:00	25° $\text{II}$ 39'18	1°00'51
min. Earth dist.	6086 Jul 04 15:47	12° $\text{E}$ 57'19	0.55731 AU	minimum elong	6087 Jun 13 04:11	25° $\text{II}$ 35'12	1°00'03
morning rise	6086 Jul 10 12:53	9° $\text{E}$ 57'57		min. Earth dist.	6087 Jun 16 08:53	23° $\text{II}$ 12'21	0.57384 AU
direct	6086 Jul 15 06:39	9° $\text{E}$ 07'24		desc. node	6087 Jun 16 14:09	23° $\text{II}$ 03'00	
morning max el	6086 Jul 29 07:40	16° $\text{E}$ 11'05	25°01'13	morning rise	6087 Jun 20 23:22	20° $\text{II}$ 26'23	
	6086 Aug 09 11:32	0° $\text{O}$		direct	6087 Jun 26 14:37	19° $\text{II}$ 07'43	
asc. node	6086 Aug 20 20:25	20° $\text{O}$ 03'27		morning max el	6087 Jul 10 23:35	26° $\text{II}$ 40'50	26°30'12
morning set	6086 Aug 24 13:41	27° $\text{O}$ 44'52			6087 Jul 14 03:41	0° $\text{E}$	
	6086 Aug 25 14:59	0° $\text{M}$			6087 Aug 02 19:18	0° $\text{O}$	
superior conj	6086 Aug 31 11:34	12° $\text{M}$ 47'13	1°30'28	asc. node	6087 Aug 07 17:27	9° $\text{O}$ 49'41	
minimum elong	6086 Aug 31 09:37	12° $\text{M}$ 36'32	1°30'16	morning set	6087 Aug 09 00:10	12° $\text{O}$ 30'49	
max. Earth dist.	6086 Sep 01 23:04	16° $\text{M}$ 01'07	1.32541 AU				
evening rise	6086 Sep 07 15:45	28° $\text{M}$ 06'32		superior conj	6087 Aug 15 23:05	27° $\text{O}$ 40'35	1°16'14
	6086 Sep 08 13:59	0° $\text{L}$		minimum elong	6087 Aug 15 20:48	27° $\text{O}$ 28'00	1°15'53
desc. node	6086 Sep 25 16:19	0° $\text{L}$ 07'40		max. Earth dist.	6087 Aug 16 08:34	28° $\text{O}$ 33'01	1.31979 AU
	6086 Sep 25 14:16	0° $\text{L}$			6087 Aug 17 00:19	0° $\text{M}$	
evening max el	6086 Oct 10 10:05	18° $\text{L}$ 22'37	27°26'26	evening rise	6087 Aug 22 20:31	12° $\text{M}$ 38'48	
retrograde	6086 Oct 24 03:54	25° $\text{L}$ 37'36			6087 Aug 31 16:51	0° $\text{L}$	
evening set	6086 Oct 31 07:44	23° $\text{L}$ 08'13		desc. node	6087 Sep 12 13:22	18° $\text{L}$ 54'05	
min. Earth dist.	6086 Nov 03 23:28	20° $\text{L}$ 07'51	0.62771 AU		6087 Sep 21 21:46	0° $\text{L}$	
inferior conj	6086 Nov 06 19:02	17° $\text{L}$ 25'43	-3°11'32	evening max el	6087 Sep 22 15:15	0° $\text{L}$ 42'04	27°00'10
minimum elong	6086 Nov 07 00:40	17° $\text{L}$ 12'08	3°09'33	retrograde	6087 Oct 06 12:27	7° $\text{L}$ 52'54	
morning rise	6086 Nov 13 19:22	12° $\text{L}$ 16'07		evening set	6087 Oct 13 12:40	5° $\text{L}$ 43'48	
direct	6086 Nov 16 03:53	11° $\text{L}$ 50'37		min. Earth dist.	6087 Oct 17 05:35	3° $\text{L}$ 04'03	0.60775 AU
asc. node	6086 Nov 16 19:41	11° $\text{L}$ 52'39		inferior conj	6087 Oct 20 09:30	0° $\text{L}$ 23'47	-4°12'59
morning max el	6086 Nov 22 20:49	15° $\text{L}$ 17'00	17°49'07	minimum elong	6087 Oct 20 16:07	0° $\text{L}$ 09'47	4°11'13
	6086 Dec 03 02:55	0° $\text{X}$			6087 Oct 20 20:45	30° $\text{R}$ $\text{L}$	
morning set	6086 Dec 08 22:28	10° $\text{X}$ 10'34		morning rise	6087 Oct 27 21:40	25° $\text{L}$ 34'59	
	6086 Dec 20 09:21	0° $\text{S}$		direct	6087 Oct 30 04:28	25° $\text{L}$ 14'23	
superior conj	6086 Dec 20 12:20	0° $\text{S}$ 12'33	0°15'12	asc. node	6087 Nov 03 16:43	26° $\text{L}$ 38'38	
minimum elong	6086 Dec 20 13:50	0° $\text{S}$ 18'48	0°15'02	morning max el	6087 Nov 06 10:49	28° $\text{L}$ 51'10	18°01'16
behind sun begin	6086 Dec 20 10:35	0° $\text{S}$ 05'09			6087 Nov 07 13:16	0° $\text{L}$	
behind sun end	6086 Dec 20 17:05	0° $\text{S}$ 32'26		morning set	6087 Nov 22 03:55	23° $\text{L}$ 40'37	
desc. node	6086 Dec 22 15:32	3° $\text{S}$ 45'47			6087 Nov 25 13:55	0° $\text{X}$	
max. Earth dist.	6086 Dec 27 07:00	11° $\text{S}$ 20'51	1.43777 AU	superior conj	6087 Dec 02 04:01	11° $\text{X}$ 54'42	0°51'27
evening rise	6087 Jan 04 12:28	24° $\text{S}$ 19'56		minimum elong	6087 Dec 02 07:38	12° $\text{X}$ 10'42	0°50'59
	6087 Jan 08 05:04	0° $\approx$		desc. node	6087 Dec 09 12:33	24° $\text{X}$ 32'34	
	6087 Jan 29 02:15	0° $\text{H}$		max. Earth dist.	6087 Dec 09 19:05	24° $\text{X}$ 59'47	1.42080 AU
evening max el	6087 Feb 03 18:53	6° $\text{H}$ 38'21	21°14'23		6087 Dec 12 20:05	0° $\text{S}$	
retrograde	6087 Feb 12 11:25	11° $\text{H}$ 47'01		evening rise	6087 Dec 15 11:11	4° $\text{S}$ 14'06	
asc. node	6087 Feb 12 18:56	11° $\text{H}$ 46'30			6088 Jan 01 13:14	0° $\approx$	
evening set	6087 Feb 16 16:11	10° $\text{H}$ 08'11		evening max el	6088 Jan 17 12:36	20° $\approx$ 15'51	22°31'03
inferior conj	6087 Feb 22 00:02	3° $\text{H}$ 53'44	2°40'38	retrograde	6088 Jan 27 07:50	26° $\approx$ 05'23	

asc. node	6088 Jan 30 15:58	25°  07'35		evening set	6089 Jan 15 05:21	8°  13'34	
evening set	6088 Jan 31 23:41	24°  11'14		asc. node	6089 Jan 16 13:02	6°  58'16	
inferior conj	6088 Feb 06 08:14	17°  48'36	2°04'33	min. Earth dist.	6089 Jan 20 00:35	2°  39'28	0.68043 AU
minimum elong	6088 Feb 06 05:58	17°  56'29	2°03'50	inferior conj	6089 Jan 20 16:03	1°  46'51	1°20'42
min. Earth dist.	6088 Feb 06 03:54	18°  03'37	0.68202 AU	minimum elong	6089 Jan 20 14:19	1°  52'46	1°20'05
morning rise	6088 Feb 11 12:07	11°  39'11			6089 Jan 21 23:52	30°  R 	
direct	6088 Feb 16 03:02	9°  43'58		morning rise	6089 Jan 25 23:17	25°  Z  42'33	
morning max el	6088 Feb 25 07:26	15°  06'33	21°57'19	direct	6089 Jan 30 00:26	24°  Z  09'54	
desc. node	6088 Mar 06 11:52	27°  28'42		morning max el	6089 Feb 07 02:02	28°  Z  47'03	20°38'00
	6088 Mar 08 07:57	0°  H			6089 Feb 08 06:08	0°  ≈	
	6088 Mar 28 07:39	0°  Y		desc. node	6089 Feb 21 08:52	17°  ≈15'51	
morning set	6088 Mar 29 02:18	1°  Y14'44			6089 Mar 01 22:30	0°  H	
max. Earth dist.	6088 Apr 03 20:44	10°  Y41'31	1.41334 AU	morning set	6089 Mar 08 06:20	9°  H  42'46	
				max. Earth dist.	6089 Mar 17 01:52	23°  H  40'24	1.43231 AU
					6089 Mar 20 22:53	0°  Y	
superior conj	6088 Apr 11 13:54	23°  Y56'26	-1°58'49	superior conj	6089 Mar 23 16:45	4°  Y33'30	-2°09'42
minimum elong	6088 Apr 11 18:35	24°  Y17'07	1°58'31	minimum elong	6089 Mar 23 17:47	4°  Y37'52	2°09'41
	6088 Apr 14 23:21	0°  B		evening rise	6089 Apr 04 20:33	25°  Y32'53	
evening rise	6088 Apr 22 04:25	13°  B14'36			6089 Apr 07 09:05	0°  B	
asc. node	6088 Apr 27 15:13	23°  B13'06		asc. node	6089 Apr 14 12:17	12°  B11'22	
	6088 May 01 14:31	0°  II		evening max el	6089 Apr 21 21:58	22°  B10'03	18°06'21
evening max el	6088 May 08 09:47	9°  II03'36	18°13'51	retrograde	6089 Apr 28 10:11	25°  B31'41	
retrograde	6088 May 15 10:39	12°  II35'30		evening set	6089 May 01 03:21	24°  B56'06	
evening set	6088 May 17 20:50	12°  II11'05		inferior conj	6089 May 07 13:29	19°  B52'03	3°03'02
inferior conj	6088 May 24 22:20	7°  II27'05	2°16'32	minimum elong	6089 May 07 16:03	19°  B45'35	3°02'33
minimum elong	6088 May 25 01:41	7°  II19'42	2°15'35	min. Earth dist.	6089 May 10 14:42	16°  B48'50	0.61712 AU
min. Earth dist.	6088 May 28 07:56	4°  II29'31	0.59494 AU	morning rise	6089 May 14 02:52	13°  B51'26	
morning rise	6088 Jun 01 03:38	1°  II44'49		desc. node	6089 May 20 08:11	11°  B29'29	
desc. node	6088 Jun 02 11:11	1°  II03'23		direct	6089 May 20 21:20	11°  B28'35	
	6088 Jun 05 20:14	30°  R 		morning max el	6089 Jun 04 01:38	19°  B28'38	27°53'36
direct	6088 Jun 07 12:31	29°  B52'14			6089 Jun 13 00:14	0°  II	
	6088 Jun 09 05:21	0°  II			6089 Jul 01 15:14	0°  B	
morning max el	6088 Jun 21 21:33	7°  II43'45	27°30'14	morning set	6089 Jul 07 10:36	11°  B24'27	
	6088 Jul 08 17:55	0°  B		asc. node	6089 Jul 11 11:32	19°  B52'33	
morning set	6088 Jul 23 07:47	27°  B05'55		max. Earth dist.	6089 Jul 13 04:08	23°  B31'25	1.32155 AU
asc. node	6088 Jul 24 14:29	29°  B47'35					
	6088 Jul 24 16:49	0°  B		superior conj	6089 Jul 14 20:58	27°  B14'02	0°34'34
superior conj	6088 Jul 30 10:48	12°  B31'23	0°57'26	minimum elong	6089 Jul 14 19:28	27°  B05'48	0°34'13
minimum elong	6088 Jul 30 08:40	12°  B19'36	0°57'01		6089 Jul 16 03:14	0°  B	
max. Earth dist.	6088 Jul 29 19:29	11°  B06'46	1.31848 AU	evening rise	6089 Jul 21 17:00	12°  B08'10	
evening rise	6088 Aug 06 05:36	27°  B21'24			6089 Jul 30 17:03	0°  B	
	6088 Aug 07 11:38	0°  B		evening max el	6089 Aug 16 04:07	22°  B58'30	24°35'38
	6088 Aug 24 08:41	0°  B		desc. node	6089 Aug 16 07:28	23°  B06'30	
desc. node	6088 Aug 29 10:25	6°  B41'28		retrograde	6089 Aug 30 00:40	29°  B57'05	
evening max el	6088 Sep 03 13:11	12°  B12'51	26°01'00	evening set	6089 Sep 04 04:48	28°  B57'19	
retrograde	6088 Sep 17 12:12	19°  B19'21		min. Earth dist.	6089 Sep 09 15:18	26°  B08'18	0.56794 AU
evening set	6088 Sep 23 20:57	17°  B42'12		inferior conj	6089 Sep 12 08:09	24°  B24'27	-5°23'07
min. Earth dist.	6088 Sep 28 01:58	15°  B07'03	0.58696 AU	minimum elong	6089 Sep 12 08:27	24°  B23'58	5°23'08
inferior conj	6088 Oct 01 06:45	12°  B46'00	-5°01'37	morning rise	6089 Sep 20 14:25	20°  B19'55	
minimum elong	6088 Oct 01 11:59	12°  B36'19	5°00'50	direct	6089 Sep 23 05:25	20°  B00'58	
morning rise	6088 Oct 09 05:19	8°  B19'56		morning max el	6089 Oct 02 16:26	24°  B27'56	19°27'31
direct	6088 Oct 11 14:08	8°  B01'26		asc. node	6089 Oct 07 10:49	0°  B01'20	
morning max el	6088 Oct 19 18:29	11°  B58'07	18°33'35		6089 Oct 07 10:25	0°  B	
asc. node	6088 Oct 20 13:46	12°  B46'31		morning set	6089 Oct 19 23:13	22°  B11'11	
	6088 Oct 31 20:00	0°  B			6089 Oct 23 20:26	0°  B	
morning set	6088 Nov 04 21:26	7°  B44'17					
				superior conj	6089 Oct 27 23:34	8°  B12'40	1°33'57
superior conj	6088 Nov 13 17:31	24°  B39'37	1°17'35	minimum elong	6089 Oct 28 01:52	8°  B23'58	1°33'49
minimum elong	6088 Nov 13 21:02	24°  B56'00	1°17'13	max. Earth dist.	6089 Nov 03 07:11	20°  B13'34	1.37928 AU
	6088 Nov 16 15:06	0°  B		evening rise	6089 Nov 07 01:09	26°  B58'34	
max. Earth dist.	6088 Nov 21 02:01	7°  B55'31	1.40047 AU		6089 Nov 08 18:43	0°  B	
evening rise	6088 Nov 25 06:52	15°  B05'41		desc. node	6089 Nov 12 06:39	5°  B55'36	
desc. node	6088 Nov 25 09:35	15°  B17'02			6089 Nov 28 02:09	0°  B	
	6088 Dec 04 14:06	0°  B		evening max el	6089 Dec 12 15:57	17°  B41'25	25°07'54
	6088 Dec 26 10:51	0°  B		retrograde	6089 Dec 24 14:00	24°  B35'01	
evening max el	6088 Dec 30 02:55	3°  B56'35	23°51'08	evening set	6089 Dec 30 07:34	22°  B12'11	
retrograde	6089 Jan 10 01:03	10°  B22'43					

asc. node	6090 Jan 03 10:04	17° $\text{Z}$ 41'52		evening max el	6090 Nov 25 04:50	1° $\text{Z}$ 25'47	26°14'13
min. Earth dist.	6090 Jan 03 19:13	17° $\text{Z}$ 12'24	0.67521 AU	retrograde	6090 Dec 07 21:52	8° $\text{Z}$ 36'34	
inferior conj	6090 Jan 04 21:42	15° $\text{Z}$ 45'55	0°29'55	evening set	6090 Dec 14 04:38	6° $\text{Z}$ 02'56	
minimum elong	6090 Jan 04 20:58	15° $\text{Z}$ 48'20	0°29'38	min. Earth dist.	6090 Dec 18 09:24	1° $\text{Z}$ 38'18	0.66634 AU
morning rise	6090 Jan 10 10:35	9° $\text{Z}$ 48'49		inferior conj	6090 Dec 19 23:15	29° $\text{Z}$ 42'10	-0°27'02
direct	6090 Jan 13 23:18	8° $\text{Z}$ 37'04		minimum elong	6090 Dec 19 23:59	29° $\text{Z}$ 39'55	0°26'42
morning max el	6090 Jan 21 04:38	12° $\text{Z}$ 39'15	19°31'55		6090 Dec 19 17:27	30° $\text{R}$ 21	
greatest brilliancy	6090 Feb 03 04:38	29° $\text{Z}$ 48'40	-0.7m	asc. node	6090 Dec 21 07:05	28° $\text{Z}$ 05'55	
	6090 Feb 03 07:41	0° $\approx$		morning rise	6090 Dec 25 19:56	23° $\text{Z}$ 54'41	
desc. node	6090 Feb 08 05:53	7° $\approx$ 25'03		direct	6090 Dec 28 21:52	23° $\text{Z}$ 00'48	
morning set	6090 Feb 15 03:24	17° $\approx$ 59'29		morning max el	6091 Jan 04 14:31	26° $\text{Z}$ 40'04	18°41'28
	6090 Feb 22 20:55	0° $\text{X}$			6091 Jan 07 13:34	0° $\text{Z}$	
max. Earth dist.	6090 Feb 27 14:40	7° $\text{X}$ 27'27	1.44613 AU	morning set	6091 Jan 25 18:16	27° $\text{Z}$ 16'12	
				desc. node	6091 Jan 26 02:56	27° $\text{Z}$ 50'19	
superior conj	6090 Mar 03 18:18	14° $\text{X}$ 04'14	-2°03'33		6091 Jan 27 11:52	0° $\approx$	
minimum elong	6090 Mar 03 12:53	13° $\text{X}$ 42'31	2°03'17	max. Earth dist.	6091 Feb 10 08:37	21° $\approx$ 45'13	1.45317 AU
	6090 Mar 13 12:39	0° $\text{Y}$					
evening rise	6090 Mar 17 16:28	6° $\text{Y}$ 56'39		superior conj	6091 Feb 11 01:04	22° $\approx$ 49'43	-1°37'27
	6090 Mar 31 22:46	0° $\text{Z}$		minimum elong	6091 Feb 10 15:35	22° $\approx$ 12'29	1°36'32
asc. node	6090 Apr 01 09:19	0° $\text{Z}$ 36'43			6091 Feb 15 14:34	0° $\text{X}$	
evening max el	6090 Apr 05 10:58	5° $\text{Z}$ 31'11	18°17'39	evening rise	6091 Feb 26 13:17	17° $\text{X}$ 23'35	
retrograde	6090 Apr 11 20:46	8° $\text{Z}$ 56'56		greatest brilliancy	6091 Mar 06 04:32	29° $\text{X}$ 37'20	-0.9m
evening set	6090 Apr 14 20:31	8° $\text{Z}$ 08'50			6091 Mar 06 10:14	0° $\text{Y}$	
inferior conj	6090 Apr 20 19:20	2° $\text{Z}$ 45'52	3°25'33	asc. node	6091 Mar 19 06:21	18° $\text{Y}$ 19'24	
minimum elong	6090 Apr 20 20:23	2° $\text{Z}$ 42'51	3°25'27	evening max el	6091 Mar 19 22:04	19° $\text{Y}$ 00'34	18°46'58
	6090 Apr 23 06:15	30° $\text{R}$ 19		retrograde	6091 Mar 26 14:21	22° $\text{Y}$ 43'16	
min. Earth dist.	6090 Apr 23 06:29	29° $\text{Y}$ 59'21	0.63767 AU	evening set	6091 Mar 29 20:50	21° $\text{Y}$ 41'55	
morning rise	6090 Apr 26 19:16	26° $\text{Y}$ 35'23		inferior conj	6091 Apr 04 11:57	16° $\text{Y}$ 01'41	3°29'31
direct	6090 May 03 14:42	23° $\text{Y}$ 53'01		minimum elong	6091 Apr 04 11:34	16° $\text{Y}$ 02'54	3°29'30
desc. node	6090 May 07 05:12	24° $\text{Y}$ 32'53		min. Earth dist.	6091 Apr 06 07:32	13° $\text{Y}$ 47'13	0.65488 AU
	6090 May 15 11:13	0° $\text{Z}$		morning rise	6091 Apr 10 01:49	9° $\text{Y}$ 46'51	
morning max el	6090 May 17 10:03	1° $\text{Z}$ 52'26	27°39'35	direct	6091 Apr 16 15:18	6° $\text{Y}$ 57'54	
	6090 Jun 07 06:00	0° $\text{II}$		desc. node	6091 Apr 24 02:12	9° $\text{Y}$ 47'34	
morning set	6090 Jun 21 06:07	25° $\text{II}$ 18'08		morning max el	6091 Apr 29 20:17	14° $\text{Y}$ 45'46	26°52'57
	6090 Jun 23 14:03	0° $\text{Z}$			6091 May 12 06:39	0° $\text{Z}$	
max. Earth dist.	6090 Jun 26 06:34	5° $\text{Z}$ 34'30	1.32916 AU		6091 May 30 23:47	0° $\text{II}$	
asc. node	6090 Jun 28 08:34	9° $\text{Z}$ 59'28		morning set	6091 Jun 04 15:21	8° $\text{II}$ 38'34	
				max. Earth dist.	6091 Jun 08 23:20	17° $\text{II}$ 08'29	1.34144 AU
superior conj	6090 Jun 29 03:37	11° $\text{Z}$ 41'30	0°08'13				
minimum elong	6090 Jun 29 03:12	11° $\text{Z}$ 39'20	0°08'05	superior conj	6091 Jun 13 04:37	25° $\text{II}$ 47'37	-0°20'51
behind sun begin	6090 Jun 28 22:33	11° $\text{Z}$ 14'22		minimum elong	6091 Jun 13 05:44	25° $\text{II}$ 53'29	0°20'38
behind sun end	6090 Jun 29 07:51	12° $\text{Z}$ 04'19		asc. node	6091 Jun 15 05:36	0° $\text{Z}$ 04'34	
evening rise	6090 Jul 06 04:41	26° $\text{Z}$ 51'46			6091 Jun 15 04:44	0° $\text{Z}$	
	6090 Jul 07 16:28	0° $\text{Z}$		evening rise	6091 Jun 20 14:49	11° $\text{Z}$ 26'18	
	6090 Jul 25 14:33	0° $\text{II}$			6091 Jun 30 05:54	0° $\text{Z}$	
evening max el	6090 Jul 28 16:27	3° $\text{II}$ 18'05	22°57'54	evening max el	6091 Jul 10 10:33	13° $\text{Z}$ 45'57	21°23'59
desc. node	6090 Aug 03 04:30	7° $\text{II}$ 37'27		desc. node	6091 Jul 21 01:29	19° $\text{Z}$ 41'20	
retrograde	6090 Aug 11 00:15	9° $\text{II}$ 57'21		retrograde	6091 Jul 22 14:26	19° $\text{Z}$ 47'01	
evening set	6090 Aug 14 16:02	9° $\text{II}$ 28'06		evening set	6091 Jul 25 00:25	19° $\text{Z}$ 33'35	
min. Earth dist.	6090 Aug 22 00:57	6° $\text{II}$ 09'28	0.55386 AU	inferior conj	6091 Aug 03 08:07	15° $\text{Z}$ 34'24	-3°44'35
inferior conj	6090 Aug 23 14:10	5° $\text{II}$ 15'51	-5°00'15	minimum elong	6091 Aug 02 23:06	15° $\text{Z}$ 47'01	3°41'59
minimum elong	6090 Aug 23 07:44	5° $\text{II}$ 25'09	4°59'18	min. Earth dist.	6091 Aug 03 10:36	15° $\text{Z}$ 30'56	0.54767 AU
morning rise	6090 Sep 01 01:36	1° $\text{II}$ 25'32		morning rise	6091 Aug 11 22:43	11° $\text{Z}$ 41'14	
direct	6090 Sep 04 02:06	1° $\text{II}$ 04'05		direct	6091 Aug 15 11:13	11° $\text{Z}$ 14'28	
morning max el	6090 Sep 15 02:08	6° $\text{II}$ 11'34	20°43'29	morning max el	6091 Aug 28 00:11	17° $\text{Z}$ 09'58	22°18'11
asc. node	6090 Sep 24 07:50	18° $\text{II}$ 07'39			6091 Sep 07 03:41	0° $\text{II}$	
	6090 Sep 30 20:43	0° $\text{Z}$		asc. node	6091 Sep 11 04:52	6° $\text{II}$ 53'32	
morning set	6090 Oct 04 06:20	6° $\text{Z}$ 52'15		morning set	6091 Sep 18 16:36	21° $\text{II}$ 41'26	
					6091 Sep 22 14:29	0° $\text{Z}$	
superior conj	6090 Oct 11 17:26	22° $\text{Z}$ 19'38	1°41'46				
minimum elong	6090 Oct 11 18:14	22° $\text{Z}$ 23'47	1°41'46	superior conj	6091 Sep 25 19:30	6° $\text{Z}$ 50'06	1°42'14
	6090 Oct 15 13:00	0° $\text{II}$		minimum elong	6091 Sep 25 18:58	6° $\text{Z}$ 47'13	1°42'14
max. Earth dist.	6090 Oct 16 15:25	2° $\text{II}$ 09'32	1.35951 AU	max. Earth dist.	6091 Sep 29 06:46	14° $\text{Z}$ 04'39	1.34295 AU
evening rise	6090 Oct 20 14:57	9° $\text{II}$ 44'06		evening rise	6091 Oct 03 20:13	23° $\text{Z}$ 12'12	
desc. node	6090 Oct 30 03:42	26° $\text{II}$ 23'05			6091 Oct 07 10:12	0° $\text{II}$	
	6090 Nov 01 09:24	0° $\text{Z}$		desc. node	6091 Oct 17 00:44	16° $\text{II}$ 33'47	
	6090 Nov 23 18:28	0° $\text{Z}$			6091 Oct 26 01:14	0° $\text{Z}$	

evening max el	6091 Nov 07 17:36	15° $\text{♊}$ 01'29	27°02'44	evening max el	6092 Oct 20 05:18	28° $\text{♍}$ 18'29	27°26'27
retrograde	6091 Nov 21 00:13	22° $\text{♊}$ 19'51			6092 Oct 22 02:13	0° $\text{♊}$	
evening set	6091 Nov 27 18:26	19° $\text{♊}$ 40'54		retrograde	6092 Nov 02 20:30	5° $\text{♊}$ 36'40	
min. Earth dist.	6091 Dec 01 16:54	15° $\text{♊}$ 51'18	0.65389 AU	evening set	6092 Nov 09 22:22	3° $\text{♊}$ 00'45	
inferior conj	6091 Dec 03 18:32	13° $\text{♊}$ 30'43	-1°29'02		6092 Nov 13 09:15	30° $\text{♋}$	
minimum elong	6091 Dec 03 21:07	13° $\text{♊}$ 23'23	1°27'56	min. Earth dist.	6092 Nov 13 15:46	29° $\text{♋}$ 43'51	0.63809 AU
asc. node	6091 Dec 08 04:07	9° $\text{♊}$ 06'34		inferior conj	6092 Nov 16 05:08	27° $\text{♋}$ 06'28	-2°34'02
morning rise	6091 Dec 10 00:55	7° $\text{♊}$ 55'37		minimum elong	6092 Nov 16 09:43	26° $\text{♋}$ 54'39	2°32'15
direct	6091 Dec 12 18:05	7° $\text{♊}$ 15'50		morning rise	6092 Nov 22 22:40	21° $\text{♋}$ 46'36	
morning max el	6091 Dec 19 05:23	10° $\text{♊}$ 43'07	18°07'30	asc. node	6092 Nov 24 01:09	21° $\text{♋}$ 26'02	
	6092 Jan 01 16:47	0° $\text{♋}$		direct	6092 Nov 25 09:25	21° $\text{♋}$ 17'02	
morning set	6092 Jan 06 14:22	8° $\text{♋}$ 01'13		morning max el	6092 Dec 01 22:25	24° $\text{♋}$ 41'38	17°50'40
desc. node	6092 Jan 12 23:57	18° $\text{♋}$ 26'24			6092 Dec 06 06:55	0° $\text{♋}$	
	6092 Jan 20 05:28	0° $\text{♋}$		morning set	6092 Dec 18 13:48	20° $\text{♋}$ 06'08	
					6092 Dec 24 09:03	0° $\text{♋}$	
superior conj	6092 Jan 21 06:37	1° $\text{♋}$ 39'23	-0°55'55	desc. node	6092 Dec 29 20:59	9° $\text{♋}$ 09'35	
minimum elong	6092 Jan 20 23:51	1° $\text{♋}$ 12'40	0°55'00				
max. Earth dist.	6092 Jan 24 04:09	6° $\text{♋}$ 13'12	1.45276 AU	superior conj	6092 Dec 31 05:43	11° $\text{♋}$ 23'41	-0°09'40
evening rise	6092 Feb 06 12:36	27° $\text{♋}$ 01'31		minimum elong	6092 Dec 31 04:39	11° $\text{♋}$ 19'18	0°09'29
	6092 Feb 08 10:39	0° $\text{♋}$		behind sun begin	6092 Dec 30 20:38	10° $\text{♋}$ 46'33	
greatest brilliancy	6092 Feb 19 07:16	16° $\text{♋}$ 39'16	-0.7m	behind sun end	6092 Dec 31 12:39	11° $\text{♋}$ 51'59	
	6092 Feb 28 21:59	0° $\text{♋}$		max. Earth dist.	6093 Jan 05 22:23	20° $\text{♋}$ 34'09	1.44513 AU
evening max el	6092 Mar 02 05:11	2° $\text{♋}$ 33'42	19°33'07		6093 Jan 11 22:20	0° $\text{♋}$	
asc. node	6092 Mar 05 03:22	5° $\text{♋}$ 06'46		evening rise	6093 Jan 15 23:48	6° $\text{♋}$ 16'38	
retrograde	6092 Mar 09 11:35	6° $\text{♋}$ 44'05			6093 Jan 31 19:42	0° $\text{♋}$	
evening set	6092 Mar 13 01:37	5° $\text{♋}$ 28'50		evening max el	6093 Feb 13 07:10	16° $\text{♋}$ 08'56	20°33'59
	6092 Mar 18 04:01	30° $\text{♋}$		asc. node	6093 Feb 20 00:23	20° $\text{♋}$ 44'33	
inferior conj	6092 Mar 18 12:06	29° $\text{♋}$ 33'26	3°19'12	retrograde	6093 Feb 21 09:57	20° $\text{♋}$ 54'55	
minimum elong	6092 Mar 18 10:36	29° $\text{♋}$ 38'22	3°19'01	evening set	6093 Feb 25 08:51	19° $\text{♋}$ 25'03	
min. Earth dist.	6092 Mar 19 16:42	27° $\text{♋}$ 59'12	0.66798 AU	inferior conj	6093 Mar 02 17:06	13° $\text{♋}$ 16'51	2°57'30
morning rise	6092 Mar 23 19:18	23° $\text{♋}$ 17'36		minimum elong	6093 Mar 02 14:56	13° $\text{♋}$ 24'16	2°57'03
direct	6092 Mar 29 22:11	20° $\text{♋}$ 34'03		min. Earth dist.	6093 Mar 03 08:00	12° $\text{♋}$ 25'48	0.67677 AU
desc. node	6092 Apr 09 23:13	26° $\text{♋}$ 40'22		morning rise	6093 Mar 07 20:48	7° $\text{♋}$ 02'20	
morning max el	6092 Apr 11 06:02	27° $\text{♋}$ 56'05	25°41'52	direct	6093 Mar 13 10:30	4° $\text{♋}$ 33'24	
	6092 Apr 13 05:02	0° $\text{♋}$		morning max el	6093 Mar 24 14:43	11° $\text{♋}$ 14'31	24°16'28
	6092 May 04 23:52	0° $\text{♋}$		desc. node	6093 Mar 27 20:15	14° $\text{♋}$ 44'12	
morning set	6092 May 17 10:13	21° $\text{♋}$ 14'03			6093 Apr 08 13:54	0° $\text{♋}$	
max. Earth dist.	6092 May 21 04:39	28° $\text{♋}$ 15'52	1.35829 AU		6093 Apr 27 17:52	0° $\text{♋}$	
	6092 May 22 02:25	0° $\text{♋}$		morning set	6093 Apr 29 09:24	2° $\text{♋}$ 50'25	
				max. Earth dist.	6093 May 03 01:23	9° $\text{♋}$ 19'26	1.37887 AU
superior conj	6092 May 26 21:21	9° $\text{♋}$ 25'07	-0°51'15				
minimum elong	6092 May 27 00:16	9° $\text{♋}$ 39'45	0°50'44	superior conj	6093 May 10 02:33	22° $\text{♋}$ 25'58	-1°21'01
asc. node	6092 Jun 01 02:37	20° $\text{♋}$ 03'29		minimum elong	6093 May 10 07:07	22° $\text{♋}$ 47'53	1°20'22
evening rise	6092 Jun 03 21:14	25° $\text{♋}$ 45'06			6093 May 13 23:56	0° $\text{♋}$	
	6092 Jun 05 23:37	0° $\text{♋}$		evening rise	6093 May 18 21:29	9° $\text{♋}$ 41'34	
evening max el	6092 Jun 21 16:35	24° $\text{♋}$ 49'19	20°05'06	asc. node	6093 May 18 23:39	9° $\text{♋}$ 52'15	
retrograde	6092 Jul 02 04:41	29° $\text{♋}$ 58'29			6093 May 30 03:42	0° $\text{♋}$	
evening set	6092 Jul 04 02:26	29° $\text{♋}$ 49'02		evening max el	6093 Jun 04 11:10	6° $\text{♋}$ 36'12	19°05'50
desc. node	6092 Jul 06 22:28	29° $\text{♋}$ 02'52		retrograde	6093 Jun 13 07:02	10° $\text{♋}$ 56'00	
inferior conj	6092 Jul 13 03:51	25° $\text{♋}$ 49'52	-1°52'03	evening set	6093 Jun 15 06:34	10° $\text{♋}$ 43'50	
minimum elong	6092 Jul 12 22:38	25° $\text{♋}$ 57'40	1°50'09	inferior conj	6093 Jun 23 14:35	6° $\text{♋}$ 31'23	0°03'40
min. Earth dist.	6092 Jul 14 22:26	24° $\text{♋}$ 46'13	0.55103 AU	minimum elong	6093 Jun 23 14:44	6° $\text{♋}$ 31'08	0°03'35
morning rise	6092 Jul 21 17:14	21° $\text{♋}$ 32'58		transit middle	6093 Jun 23 14:44	6° $\text{♋}$ 31'08	0°03'35
direct	6092 Jul 25 22:45	20° $\text{♋}$ 53'59		transit begin	6093 Jun 23 11:02	6° $\text{♋}$ 37'27	
morning max el	6092 Aug 08 14:52	27° $\text{♋}$ 36'32	24°02'33	transit end	6093 Jun 23 18:26	6° $\text{♋}$ 24'47	
	6092 Aug 10 23:39	0° $\text{♋}$		desc. node	6093 Jun 23 19:30	6° $\text{♋}$ 22'57	
asc. node	6092 Aug 28 01:54	26° $\text{♋}$ 09'06		min. Earth dist.	6093 Jun 26 13:15	4° $\text{♋}$ 31'09	0.56352 AU
	6092 Aug 30 00:24	0° $\text{♋}$		morning rise	6093 Jul 01 19:41	1° $\text{♋}$ 39'11	
morning set	6092 Sep 02 04:16	6° $\text{♋}$ 33'32		direct	6093 Jul 06 22:57	0° $\text{♋}$ 37'28	
				morning max el	6093 Jul 21 04:26	7° $\text{♋}$ 55'50	25°41'52
superior conj	6092 Sep 09 02:59	21° $\text{♋}$ 35'29	1°36'23		6093 Aug 06 13:39	0° $\text{♋}$	
minimum elong	6092 Sep 09 01:26	21° $\text{♋}$ 27'03	1°36'16	asc. node	6093 Aug 14 22:56	15° $\text{♋}$ 45'47	
max. Earth dist.	6092 Sep 11 06:42	26° $\text{♋}$ 14'14	1.33048 AU	morning set	6093 Aug 17 15:37	21° $\text{♋}$ 22'45	
	6092 Sep 13 01:13	0° $\text{♋}$			6093 Aug 21 15:12	0° $\text{♋}$	
evening rise	6092 Sep 16 13:07	7° $\text{♋}$ 12'57					
	6092 Sep 28 22:33	0° $\text{♋}$		superior conj	6093 Aug 24 13:34	6° $\text{♋}$ 27'30	1°25'02
desc. node	6092 Oct 02 21:44	6° $\text{♋}$ 20'31		minimum elong	6093 Aug 24 11:26	6° $\text{♋}$ 15'41	1°24'46



max. Earth dist.	6093 Aug 25 13:33	8° $\mathbb{M}$ 39'18	1.32241 AU		6094 Aug 12 23:44	0° $\mathbb{M}$	
evening rise	6093 Aug 31 14:19	21° $\mathbb{M}$ 35'59		evening rise	6094 Aug 15 21:14	6° $\mathbb{M}$ 13'42	
	6093 Sep 04 18:22	0° $\mathbb{L}$			6094 Aug 28 08:24	0° $\mathbb{L}$	
desc. node	6093 Sep 19 18:45	25° $\mathbb{L}$ 32'35		desc. node	6094 Sep 06 15:47	13° $\mathbb{L}$ 56'04	
	6093 Sep 22 23:27	0° $\mathbb{M}$		evening max el	6094 Sep 14 16:22	23° $\mathbb{L}$ 03'02	26°38'55
evening max el	6093 Oct 02 13:49	11° $\mathbb{M}$ 03'04	27°19'35		6094 Sep 26 11:36	0° $\mathbb{M}$	
retrograde	6093 Oct 16 09:39	18° $\mathbb{M}$ 16'29		retrograde	6094 Sep 28 14:23	0° $\mathbb{M}$ 11'08	
evening set	6093 Oct 23 12:56	15° $\mathbb{M}$ 54'33			6094 Sep 30 16:38	30° $\mathbb{R}$ $\mathbb{L}$	
min. Earth dist.	6093 Oct 27 04:22	13° $\mathbb{M}$ 04'09	0.61941 AU	evening set	6094 Oct 05 09:39	28° $\mathbb{L}$ 14'41	
inferior conj	6093 Oct 30 03:57	10° $\mathbb{M}$ 20'59	-3°38'29	min. Earth dist.	6094 Oct 09 06:09	25° $\mathbb{L}$ 39'03	0.59892 AU
minimum elong	6093 Oct 30 10:11	10° $\mathbb{M}$ 06'44	3°36'30	inferior conj	6094 Oct 12 11:31	23° $\mathbb{L}$ 05'01	-4°35'52
morning rise	6093 Nov 06 09:22	5° $\mathbb{M}$ 19'38		minimum elong	6094 Oct 12 17:56	22° $\mathbb{L}$ 52'12	4°34'28
direct	6093 Nov 08 16:38	4° $\mathbb{M}$ 56'38		morning rise	6094 Oct 20 04:20	18° $\mathbb{L}$ 25'25	
asc. node	6093 Nov 10 22:12	5° $\mathbb{M}$ 18'58		direct	6094 Oct 22 11:37	18° $\mathbb{L}$ 05'54	
morning max el	6093 Nov 15 14:25	8° $\mathbb{M}$ 26'44	17°51'51	asc. node	6094 Oct 28 19:15	20° $\mathbb{L}$ 41'06	
	6093 Nov 29 15:48	0° $\mathbb{X}$		morning max el	6094 Oct 30 02:04	21° $\mathbb{L}$ 49'54	18°12'24
morning set	6093 Dec 01 10:05	3° $\mathbb{X}$ 10'27			6094 Nov 05 09:18	0° $\mathbb{M}$	
				morning set	6094 Nov 14 21:14	16° $\mathbb{M}$ 56'29	
superior conj	6093 Dec 12 06:39	22° $\mathbb{X}$ 22'51	0°31'45		6094 Nov 21 20:24	0° $\mathbb{X}$	
minimum elong	6093 Dec 12 09:24	22° $\mathbb{X}$ 34'35	0°31'23				
desc. node	6093 Dec 16 17:59	29° $\mathbb{X}$ 55'47		superior conj	6094 Nov 24 08:14	4° $\mathbb{X}$ 33'14	1°03'46
	6093 Dec 16 19:00	0° $\mathbb{Z}$		minimum elong	6094 Nov 24 12:01	4° $\mathbb{X}$ 50'19	1°03'19
max. Earth dist.	6093 Dec 19 13:13	4° $\mathbb{Z}$ 32'33	1.43119 AU	max. Earth dist.	6094 Dec 01 23:30	17° $\mathbb{X}$ 55'40	1.41252 AU
evening rise	6093 Dec 26 14:12	15° $\mathbb{Z}$ 46'53		desc. node	6094 Dec 03 15:01	20° $\mathbb{X}$ 41'50	
	6094 Jan 04 21:53	0° $\mathbb{A}$		evening rise	6094 Dec 06 21:15	26° $\mathbb{X}$ 04'05	
evening max el	6094 Jan 27 03:48	29° $\mathbb{A}$ 45'44	21°46'15		6094 Dec 09 07:52	0° $\mathbb{Z}$	
	6094 Jan 27 09:28	0° $\mathbb{H}$			6094 Dec 29 16:33	0° $\mathbb{A}$	
retrograde	6094 Feb 05 07:26	5° $\mathbb{H}$ 11'30		evening max el	6095 Jan 09 19:58	13° $\mathbb{A}$ 24'52	23°05'03
asc. node	6094 Feb 06 21:26	4° $\mathbb{H}$ 58'17		retrograde	6095 Jan 20 02:31	19° $\mathbb{A}$ 30'03	
evening set	6094 Feb 09 16:43	3° $\mathbb{H}$ 26'20		evening set	6095 Jan 24 23:39	17° $\mathbb{A}$ 29'19	
	6094 Feb 12 21:56	30° $\mathbb{R}$ $\mathbb{A}$		asc. node	6095 Jan 24 18:29	17° $\mathbb{A}$ 39'53	
inferior conj	6094 Feb 15 00:42	27° $\mathbb{A}$ 08'13	2°26'19	inferior conj	6095 Jan 30 08:58	11° $\mathbb{A}$ 04'37	1°46'52
minimum elong	6094 Feb 14 22:21	27° $\mathbb{A}$ 16'25	2°25'39	minimum elong	6095 Jan 30 06:52	11° $\mathbb{A}$ 11'51	1°46'09
min. Earth dist.	6094 Feb 15 03:09	26° $\mathbb{A}$ 59'42	0.68132 AU	min. Earth dist.	6095 Jan 29 23:50	11° $\mathbb{A}$ 36'08	0.68189 AU
morning rise	6094 Feb 20 03:47	20° $\mathbb{A}$ 56'36		morning rise	6095 Feb 04 14:00	4° $\mathbb{A}$ 57'24	
direct	6094 Feb 25 03:06	18° $\mathbb{A}$ 48'12		direct	6095 Feb 08 23:01	3° $\mathbb{A}$ 11'50	
morning max el	6094 Mar 07 00:31	24° $\mathbb{A}$ 39'08	22°47'01	morning max el	6095 Feb 17 15:08	8° $\mathbb{A}$ 13'24	21°22'10
	6094 Mar 11 19:23	0° $\mathbb{H}$		desc. node	6095 Mar 01 14:18	23° $\mathbb{A}$ 09'44	
desc. node	6094 Mar 14 17:17	3° $\mathbb{H}$ 38'48			6095 Mar 06 08:59	0° $\mathbb{H}$	
	6094 Apr 02 00:58	0° $\mathbb{Y}$		morning set	6095 Mar 21 00:30	22° $\mathbb{H}$ 16'02	
morning set	6094 Apr 10 07:06	13° $\mathbb{Y}$ 12'47			6095 Mar 25 20:23	0° $\mathbb{Y}$	
max. Earth dist.	6094 Apr 14 21:22	20° $\mathbb{Y}$ 56'09	1.40104 AU	max. Earth dist.	6095 Mar 27 23:00	3° $\mathbb{Y}$ 26'48	1.42196 AU
	6094 Apr 20 01:50	0° $\mathbb{B}$					
superior conj	6094 Apr 22 16:01	4° $\mathbb{B}$ 40'19	-1°47'07	superior conj	6095 Apr 04 08:46	15° $\mathbb{Y}$ 55'21	-2°05'09
minimum elong	6094 Apr 22 21:17	5° $\mathbb{B}$ 04'14	1°46'37	minimum elong	6095 Apr 04 12:22	16° $\mathbb{Y}$ 10'50	2°05'00
evening rise	6094 May 02 12:29	23° $\mathbb{B}$ 08'04			6095 Apr 12 08:01	0° $\mathbb{B}$	
asc. node	6094 May 05 20:41	29° $\mathbb{B}$ 26'27		evening rise	6095 Apr 15 14:15	5° $\mathbb{B}$ 54'14	
	6094 May 06 03:53	0° $\mathbb{H}$		asc. node	6095 Apr 22 17:44	18° $\mathbb{B}$ 39'42	
evening max el	6094 May 18 15:28	19° $\mathbb{H}$ 01'46	18°27'03		6095 Apr 30 07:19	0° $\mathbb{H}$	
retrograde	6094 May 26 04:27	22° $\mathbb{H}$ 46'21		evening max el	6095 May 02 01:43	1° $\mathbb{H}$ 55'27	18°08'15
evening set	6094 May 28 10:40	22° $\mathbb{H}$ 27'11		retrograde	6095 May 08 19:49	5° $\mathbb{H}$ 21'17	
inferior conj	6094 Jun 04 22:40	17° $\mathbb{H}$ 54'49	1°36'44	evening set	6095 May 11 09:04	4° $\mathbb{H}$ 52'15	
minimum elong	6094 Jun 05 01:40	17° $\mathbb{H}$ 48'46	1°35'44	inferior conj	6095 May 18 03:29	29° $\mathbb{B}$ 59'14	2°39'35
min. Earth dist.	6094 Jun 08 08:27	15° $\mathbb{H}$ 12'08	0.58250 AU	minimum elong	6095 May 18 06:40	29° $\mathbb{B}$ 51'48	2°38'49
desc. node	6094 Jun 10 16:32	13° $\mathbb{H}$ 33'19			6095 May 18 03:09	30° $\mathbb{R}$ $\mathbb{B}$	
morning rise	6094 Jun 12 13:27	12° $\mathbb{H}$ 28'34		min. Earth dist.	6095 May 21 10:21	26° $\mathbb{B}$ 56'32	0.60443 AU
direct	6094 Jun 18 13:15	10° $\mathbb{H}$ 55'36		morning rise	6095 May 25 01:49	24° $\mathbb{B}$ 07'54	
morning max el	6094 Jul 02 22:30	18° $\mathbb{H}$ 37'01	26°59'58	desc. node	6095 May 28 13:34	22° $\mathbb{B}$ 29'32	
	6094 Jul 12 12:07	0° $\mathbb{E}$		direct	6095 May 31 15:41	22° $\mathbb{B}$ 01'54	
	6094 Jul 30 02:27	0° $\mathbb{Q}$		morning max el	6095 Jun 14 23:18	29° $\mathbb{B}$ 57'32	27°44'57
asc. node	6094 Aug 01 19:59	5° $\mathbb{Q}$ 37'36			6095 Jun 15 00:18	0° $\mathbb{H}$	
morning set	6094 Aug 02 01:06	6° $\mathbb{Q}$ 04'35			6095 Jun 06 12:48	0° $\mathbb{E}$	
				morning set	6095 Jul 17 06:54	20° $\mathbb{E}$ 32'59	
superior conj	6094 Aug 09 01:24	21° $\mathbb{Q}$ 20'23	1°08'48	asc. node	6095 Jul 19 17:01	25° $\mathbb{E}$ 38'42	
minimum elong	6094 Aug 08 23:07	21° $\mathbb{Q}$ 07'48	1°08'25		6095 Jul 21 17:31	0° $\mathbb{Q}$	
max. Earth dist.	6094 Aug 09 00:13	21° $\mathbb{Q}$ 13'49	1.31872 AU	max. Earth dist.	6095 Jul 23 10:48	3° $\mathbb{Q}$ 45'34	1.31929 AU

superior conj	6095 Jul 24 12:38	6°♌07'42	0°48'11	minimum elong	6096 Jul 07 20:24	20°♊38'12	0°23'29
minimum elong	6095 Jul 24 10:42	5°♌57'05	0°47'48		6096 Jul 12 03:27	0°♌	
evening rise	6095 Jul 31 07:31	20°♌58'21		evening rise	6096 Jul 14 19:14	5°♌43'54	
	6095 Aug 04 16:12	0°♍			6096 Jul 27 14:22	0°♍	
	6095 Aug 23 11:45	0°♎		evening max el	6096 Aug 07 23:34	14°♍41'41	23°54'28
desc. node	6095 Aug 24 12:49	1°♎11'11		desc. node	6096 Aug 10 09:50	16°♍51'23	
evening max el	6095 Aug 27 10:56	4°♎12'11	25°27'08	retrograde	6096 Aug 21 16:38	21°♍35'01	
retrograde	6095 Sep 10 09:14	11°♎15'57		evening set	6096 Aug 26 05:28	20°♍49'41	
evening set	6095 Sep 16 07:40	9°♎54'21		min. Earth dist.	6096 Sep 01 09:57	17°♍49'35	0.56107 AU
min. Earth dist.	6095 Sep 20 22:43	7°♎15'51	0.57848 AU	inferior conj	6096 Sep 03 17:04	16°♍25'40	-5°19'48
inferior conj	6095 Sep 24 00:26	5°♎08'34	-5°15'05	minimum elong	6096 Sep 03 14:26	16°♍29'42	5°19'39
minimum elong	6095 Sep 24 04:01	5°♎02'19	5°14'45	morning rise	6096 Sep 12 01:49	12°♍28'58	
morning rise	6095 Oct 02 02:40	0°♎52'21		direct	6096 Sep 14 20:21	12°♍09'22	
direct	6095 Oct 04 13:47	0°♎33'52		morning max el	6096 Sep 24 22:54	16°♍52'26	19°57'24
morning max el	6095 Oct 13 05:56	4°♎41'36	18°53'56	asc. node	6096 Oct 01 13:20	24°♍56'55	
asc. node	6095 Oct 15 16:18	7°♎18'49			6096 Oct 04 16:46	0°♎	
	6095 Oct 29 04:10	0°♏		morning set	6096 Oct 12 22:55	15°♎44'11	
morning set	6095 Oct 29 18:39	1°♏11'00			6096 Oct 19 23:07	0°♏	
superior conj	6095 Nov 07 05:25	17°♏40'31	1°25'39	superior conj	6096 Oct 20 16:57	1°♏29'17	1°38'14
minimum elong	6095 Nov 07 08:29	17°♏55'10	1°25'23	minimum elong	6096 Oct 20 18:37	1°♏37'38	1°38'11
	6095 Nov 13 21:32	0°♐		max. Earth dist.	6096 Oct 26 10:44	12°♏38'55	1.37044 AU
max. Earth dist.	6095 Nov 14 05:27	0°♐35'17	1.39138 AU	evening rise	6096 Oct 30 05:35	19°♏37'44	
evening rise	6095 Nov 18 02:38	7°♐21'45			6096 Nov 05 04:39	0°♐	
desc. node	6095 Nov 20 12:03	11°♐24'14		desc. node	6096 Nov 06 09:04	1°♐58'24	
	6095 Dec 02 07:34	0°♑			6096 Nov 25 09:59	0°♑	
evening max el	6095 Dec 23 09:24	27°♑07'25	24°24'31	evening max el	6096 Dec 04 22:02	10°♑52'00	25°37'51
	6095 Dec 26 13:26	0°♒		retrograde	6096 Dec 17 05:07	17°♑55'11	
retrograde	6096 Jan 03 18:04	3°♒46'39		evening set	6096 Dec 23 04:20	15°♑27'09	
evening set	6096 Jan 09 04:04	1°♒31'07		min. Earth dist.	6096 Dec 27 12:52	10°♑42'14	0.67179 AU
	6096 Jan 10 17:46	30°♒3		inferior conj	6096 Dec 28 20:12	9°♑02'18	0°06'28
asc. node	6096 Jan 11 15:31	28°♒58'23		minimum elong	6096 Dec 28 20:02	9°♑02'50	0°06'26
min. Earth dist.	6096 Jan 13 19:50	26°♒11'46	0.67866 AU	transit middle	6096 Dec 28 20:02	9°♑02'50	0°06'26
inferior conj	6096 Jan 14 16:05	25°♒03'56	1°00'01	transit begin	6096 Dec 28 17:27	9°♑11'05	
minimum elong	6096 Jan 14 14:43	25°♒08'32	0°59'29	transit end	6096 Dec 28 22:37	8°♑54'36	
morning rise	6096 Jan 20 01:28	19°♒02'40		asc. node	6096 Dec 28 12:33	9°♒26'45	
direct	6096 Jan 23 21:05	17°♒39'24		morning rise	6097 Jan 03 12:09	3°♒08'59	
morning max el	6096 Jan 31 13:17	22°♒00'11	20°08'10	direct	6097 Jan 06 19:57	2°♒05'26	
	6096 Feb 07 06:14	0°♓		morning max el	6097 Jan 13 19:11	5°♒56'52	19°08'30
desc. node	6096 Feb 16 11:20	13°♓07'27		greatest brilliancy	6097 Jan 27 12:29	24°♒27'31	-0.7m
morning set	6096 Feb 27 22:40	0°♈31'18			6097 Jan 31 03:25	0°♓	
	6096 Feb 27 14:33	0°♈		desc. node	6097 Feb 02 08:20	3°♓24'08	
max. Earth dist.	6096 Mar 09 07:48	16°♈49'06	1.43895 AU	morning set	6097 Feb 06 00:42	9°♓06'28	
					6097 Feb 19 09:59	0°♈	
superior conj	6096 Mar 15 00:47	26°♈03'40	-2°09'27	max. Earth dist.	6097 Feb 19 22:34	0°♈49'29	1.44999 AU
minimum elong	6096 Mar 14 23:14	25°♈57'22	2°09'26				
	6096 Mar 17 10:04	0°♉		superior conj	6097 Feb 22 16:54	5°♈11'15	-1°54'52
evening rise	6096 Mar 27 22:24	17°♉50'59		minimum elong	6097 Feb 22 09:03	4°♈40'10	1°54'20
	6096 Apr 04 00:14	0°♊		evening rise	6097 Mar 09 08:39	28°♈50'30	
asc. node	6096 Apr 08 14:46	7°♊25'16			6097 Mar 10 01:33	0°♉	
evening max el	6096 Apr 14 14:33	15°♊08'49	18°08'46	asc. node	6097 Mar 26 11:47	25°♉34'09	
retrograde	6096 Apr 21 00:44	18°♊30'53		evening max el	6097 Mar 29 03:01	28°♉34'20	18°27'56
evening set	6096 Apr 23 20:35	17°♊50'15			6097 Mar 30 16:36	0°♊	
inferior conj	6096 Apr 30 01:26	12°♊37'51	3°15'10	retrograde	6097 Apr 04 14:40	2°♊05'56	
minimum elong	6096 Apr 30 03:23	12°♊32'38	3°14'52	evening set	6097 Apr 07 17:08	1°♊12'27	
min. Earth dist.	6096 May 02 21:02	9°♊39'14	0.62620 AU		6097 Apr 09 10:09	30°♋♈	
morning rise	6096 May 06 08:41	6°♊31'47		inferior conj	6097 Apr 13 12:19	25°♋42'11	3°29'10
direct	6096 May 13 04:21	3°♋59'09		minimum elong	6097 Apr 13 12:44	25°♋40'57	3°29'08
desc. node	6096 May 14 10:36	4°♋03'59		min. Earth dist.	6097 Apr 15 17:00	23°♋07'28	0.64550 AU
morning max el	6096 May 27 05:47	12°♋00'45	27°51'59	morning rise	6097 Apr 19 07:32	19°♋29'09	
	6096 Jun 10 11:40	0°♌		direct	6097 Apr 26 01:12	16°♋42'01	
	6096 Jun 27 22:18	0°♍		desc. node	6097 May 01 07:36	18°♋07'19	
morning set	6096 Jun 30 06:55	4°♍41'46		morning max el	6097 May 09 15:17	24°♋38'51	27°23'10
max. Earth dist.	6096 Jul 05 17:16	16°♍02'01	1.32422 AU		6097 May 14 11:30	0°♎	
asc. node	6096 Jul 05 14:02	15°♍44'46			6097 Jun 03 21:55	0°♏	
				morning set	6097 Jun 13 22:32	18°♏23'07	
superior conj	6096 Jul 07 21:30	20°♍44'09	0°23'45	max. Earth dist.	6097 Jun 18 15:44	27°♏52'33	1.33375 AU

	6097 Jun 19 16:19	0°☿		morning max el	6098 Apr 22 01:16	7°♄40'10	26°25'01
					6098 May 09 09:52	0°♄	
superior conj	6097 Jun 22 02:04	5°☿03'55 -0°03'53			6098 May 27 07:46	0°♄	
minimum elong	6097 Jun 22 02:16	5°☿04'58 0°03'52		morning set	6098 May 28 02:12	1°♄26'07	
behind sun begin	6097 Jun 21 20:55	4°☿36'36		max. Earth dist.	6098 Jun 01 03:24	9°♄13'07	1.34810 AU
behind sun end	6097 Jun 22 07:37	5°☿33'22					
asc. node	6097 Jun 22 11:04	5°☿51'44		superior conj	6098 Jun 05 23:56	18°♄59'22 -0°33'39	
evening rise	6097 Jun 29 06:30	20°☿24'37		minimum elong	6098 Jun 06 01:48	19°♄08'58 0°33'19	
	6097 Jul 03 22:54	0°♄		asc. node	6098 Jun 09 08:04	25°♄54'54	
evening max el	6097 Jul 20 13:28	25°♄01'39 22°16'44			6098 Jun 11 06:57	0°☿	
	6097 Jul 27 08:55	0°♄		evening rise	6098 Jun 13 15:19	4°☿53'36	
desc. node	6097 Jul 28 06:51	0°♄24'06			6098 Jun 27 15:47	0°♄	
retrograde	6097 Aug 02 11:44	1°♄27'01		evening max el	6098 Jul 02 12:24	5°♄43'15 20°48'12	
evening set	6097 Aug 05 12:43	1°♄06'35		retrograde	6098 Jul 13 23:51	11°♄22'17	
	6097 Aug 08 22:31	30°♄♄		desc. node	6098 Jul 15 03:52	11°♄18'58	
min. Earth dist.	6097 Aug 13 19:41	27°♄31'00 0.55005 AU		evening set	6098 Jul 16 02:36	11°♄11'33	
inferior conj	6097 Aug 14 16:43	27°♄01'20 -4°34'22		inferior conj	6098 Jul 25 09:34	7°♄14'36 -2°59'27	
minimum elong	6097 Aug 14 08:21	27°♄13'09 4°32'35		minimum elong	6098 Jul 25 01:35	7°♄25'57 2°56'49	
morning rise	6097 Aug 23 05:43	23°♄11'56		min. Earth dist.	6098 Jul 26 06:01	6°♄45'31 0.54795 AU	
direct	6097 Aug 26 10:47	22°♄48'44		morning rise	6098 Aug 03 00:24	3°♄13'44	
morning max el	6097 Sep 07 03:27	28°♄16'58 21°21'51		direct	6098 Aug 06 19:45	2°♄42'38	
	6097 Sep 08 20:54	0°♄		morning max el	6098 Aug 19 21:27	8°♄58'45 23°02'06	
asc. node	6097 Sep 18 10:21	13°♄21'54			6098 Sep 04 00:41	0°♄	
morning set	6097 Sep 27 07:37	0°♄29'34		asc. node	6098 Sep 05 07:23	2°♄21'35	
	6097 Sep 27 01:55	0°♄		morning set	6098 Sep 11 18:41	15°♄20'36	
superior conj	6097 Oct 04 14:42	15°♄47'42 1°42'48		superior conj	6098 Sep 18 19:22	0°♄25'12 1°40'28	
minimum elong	6097 Oct 04 14:54	15°♄48'45 1°42'48		minimum elong	6098 Sep 18 18:21	0°♄19'44 1°40'25	
max. Earth dist.	6097 Oct 08 21:26	24°♄31'29 1.35197 AU			6098 Sep 18 14:39	0°♄	
	6097 Oct 11 16:21	0°♄		max. Earth dist.	6098 Sep 21 16:41	6°♄32'39 1.33717 AU	
evening rise	6097 Oct 13 02:31	2°♄43'21		evening rise	6098 Sep 26 13:12	16°♄26'37	
desc. node	6097 Oct 24 06:06	22°♄19'41			6098 Oct 03 18:25	0°♄	
	6097 Oct 29 03:18	0°♄		desc. node	6098 Oct 11 03:07	12°♄21'12	
evening max el	6097 Nov 17 11:01	24°♄34'18 26°37'34			6098 Oct 23 15:33	0°♄	
	6097 Nov 24 09:51	0°♄		evening max el	6098 Oct 30 23:46	8°♄04'06 27°16'19	
retrograde	6097 Nov 30 10:48	1°♄49'38		retrograde	6098 Nov 13 10:25	15°♄22'18	
	6097 Dec 05 21:35	30°♄♄		evening set	6098 Nov 20 08:28	12°♄43'47	
evening set	6097 Dec 06 22:34	29°♄13'12		min. Earth dist.	6098 Nov 24 04:44	9°♄08'25 0.64757 AU	
min. Earth dist.	6097 Dec 11 00:38	25°♄03'15 0.66143 AU		inferior conj	6098 Nov 26 11:17	6°♄39'57 -1°56'25	
inferior conj	6097 Dec 12 19:22	22°♄56'05 -0°52'49		minimum elong	6098 Nov 26 14:44	6°♄30'34 1°54'59	
minimum elong	6097 Dec 12 20:51	22°♄51'41 0°52'09		asc. node	6098 Dec 02 06:37	1°♄30'08	
asc. node	6097 Dec 15 09:35	19°♄59'45		morning rise	6098 Dec 02 22:14	1°♄10'41	
morning rise	6097 Dec 18 19:56	17°♄13'14		direct	6098 Dec 05 12:27	0°♄35'35	
direct	6097 Dec 21 17:51	16°♄25'49		morning max el	6098 Dec 11 23:29	4°♄00'30 17°58'12	
morning max el	6097 Dec 28 07:24	19°♄59'03 18°24'54		morning set	6098 Dec 29 11:57	0°♄21'14	
	6098 Jan 05 01:36	0°♄			6098 Dec 29 06:52	0°♄	
morning set	6098 Jan 17 03:31	18°♄59'46		desc. node	6099 Jan 07 02:23	14°♄34'02	
desc. node	6098 Jan 20 05:21	23°♄54'26					
	6098 Jan 24 01:22	0°♄		superior conj	6099 Jan 12 07:39	22°♄59'12 -0°36'11	
				minimum elong	6099 Jan 12 03:18	22°♄41'50 0°35'33	
superior conj	6098 Feb 01 20:34	13°♄51'39 -1°21'11		max. Earth dist.	6099 Jan 16 13:01	29°♄41'29 1.45038 AU	
minimum elong	6098 Feb 01 11:28	13°♄15'56 1°20'07			6099 Jan 16 17:43	0°♄	
max. Earth dist.	6098 Feb 02 17:17	15°♄12'48 1.45394 AU		evening rise	6099 Jan 28 12:11	18°♄18'41	
	6098 Feb 12 03:46	0°♄			6099 Feb 05 03:29	0°♄	
evening rise	6098 Feb 17 19:37	8°♄54'13		greatest brilliancy	6099 Feb 11 20:52	10°♄05'04 -0.6m	
greatest brilliancy	6098 Feb 27 21:22	24°♄43'55 -0.8m		evening max el	6099 Feb 23 17:50	25°♄41'16 19°57'24	
	6098 Mar 03 08:08	0°♄		asc. node	6099 Feb 28 05:51	29°♄15'37	
evening max el	6098 Mar 12 12:42	12°♄06'24 19°04'41			6099 Mar 02 07:46	0°♄	
asc. node	6098 Mar 13 08:49	12°♄55'21		retrograde	6099 Mar 03 08:00	0°♄05'37	
retrograde	6098 Mar 19 10:02	15°♄59'17			6099 Mar 04 07:48	30°♄♄	
evening set	6098 Mar 22 19:39	14°♄52'06		evening set	6099 Mar 07 01:45	28°♄44'01	
inferior conj	6098 Mar 28 08:30	9°♄05'25 3°26'38		inferior conj	6099 Mar 12 11:00	22°♄42'53 3°11'15	
minimum elong	6098 Mar 28 07:35	9°♄08'20 3°26'35		minimum elong	6099 Mar 12 09:10	22°♄49'02 3°10'57	
min. Earth dist.	6098 Mar 29 21:38	7°♄07'19 0.66105 AU		min. Earth dist.	6099 Mar 13 09:33	21°♄27'10 0.67226 AU	
morning rise	6098 Apr 02 19:08	2°♄50'02		morning rise	6099 Mar 17 16:22	16°♄27'40	
direct	6098 Apr 09 04:44	0°♄01'50		direct	6099 Mar 23 13:54	13°♄49'34	
desc. node	6098 Apr 18 04:38	4°♄07'40		morning max el	6099 Apr 04 10:27	20°♄55'00 25°06'47	

desc. node	6099 Apr 05 01:39	21° $\text{K}$ 34'00		6100 Mar 12 19:25	0° $\text{K}$	
	6099 Apr 12 06:35	0° $\text{Y}$	morning max el	6100 Mar 17 19:26	4° $\text{K}$ 16'42	23°38'29
	6099 May 02 14:46	0° $\text{B}$	desc. node	6100 Mar 22 22:41	10° $\text{K}$ 01'30	
morning set	6099 May 10 13:26	13° $\text{B}$ 38'53		6100 Apr 06 12:57	0° $\text{Y}$	
max. Earth dist.	6099 May 14 04:51	20° $\text{B}$ 17'36	1.36676 AU	6100 Apr 22 02:29	24° $\text{Y}$ 45'42	
	6099 May 19 07:04	0° $\text{II}$		6100 Apr 25 03:28	0° $\text{B}$	
				6100 Apr 26 00:41	1° $\text{B}$ 32'57	1.38826 AU
superior conj	6099 May 20 12:17	2° $\text{II}$ 23'14	-1°04'04			
minimum elong	6099 May 20 15:57	2° $\text{II}$ 41'20	1°03'29	superior conj	6100 May 03 11:19	15° $\text{B}$ 05'30 -1°32'45
asc. node	6099 May 27 05:06	15° $\text{II}$ 50'40		minimum elong	6100 May 03 16:22	15° $\text{B}$ 29'13 1°32'07
evening rise	6099 May 28 19:32	19° $\text{II}$ 04'47			6100 May 11 05:24	0° $\text{II}$
	6099 Jun 03 09:34	0° $\text{B}$		evening rise	6100 May 12 16:17	2° $\text{II}$ 49'55
evening max el	6099 Jun 14 23:57	17° $\text{B}$ 05'20	19°37'16	asc. node	6100 May 14 02:08	5° $\text{II}$ 34'07
retrograde	6099 Jun 24 18:04	21° $\text{B}$ 52'26		evening max el	6100 May 28 23:01	29° $\text{II}$ 09'28 18°46'46
evening set	6099 Jun 26 15:37	21° $\text{B}$ 42'21			6100 May 29 20:48	0° $\text{B}$
desc. node	6099 Jul 02 00:53	19° $\text{B}$ 40'08		retrograde	6100 Jun 06 04:35	3° $\text{B}$ 12'46
inferior conj	6099 Jul 05 10:23	17° $\text{B}$ 38'20	-1°01'24	evening set	6100 Jun 08 06:32	2° $\text{B}$ 58'10
minimum elong	6099 Jul 05 07:36	17° $\text{B}$ 42'44	1°00'22		6100 Jun 14 07:43	30° $\text{K}$ $\text{II}$
min. Earth dist.	6099 Jul 07 18:41	16° $\text{B}$ 09'57	0.55544 AU	inferior conj	6100 Jun 16 05:58	28° $\text{II}$ 37'29 0°46'41
morning rise	6099 Jul 13 21:14	13° $\text{B}$ 07'24		minimum elong	6100 Jun 16 07:43	28° $\text{II}$ 34'16 0°46'02
direct	6099 Jul 18 11:41	12° $\text{B}$ 20'17		desc. node	6100 Jun 18 21:55	26° $\text{II}$ 40'24
morning max el	6099 Aug 01 10:51	19° $\text{B}$ 18'43	24°46'24	min. Earth dist.	6100 Jun 19 11:16	26° $\text{II}$ 16'49 0.57099 AU
	6099 Aug 10 10:56	0° $\text{Q}$		morning rise	6100 Jun 24 05:28	23° $\text{II}$ 29'37
asc. node	6099 Aug 23 04:25	21° $\text{Q}$ 47'08		direct	6100 Jun 29 17:41	22° $\text{II}$ 15'33
morning set	6099 Aug 27 06:27	0° $\text{P}$ 12'20		morning max el	6100 Jul 14 02:08	29° $\text{II}$ 45'31 26°18'34
	6099 Aug 27 04:07	0° $\text{P}$			6100 Jul 14 08:06	0° $\text{B}$
					6100 Aug 04 04:58	0° $\text{Q}$
superior conj	6099 Sep 03 04:26	15° $\text{P}$ 14'09	1°32'12	asc. node	6100 Aug 10 01:28	11° $\text{Q}$ 31'20
minimum elong	6099 Sep 03 02:34	15° $\text{P}$ 03'59	1°32'01	morning set	6100 Aug 11 17:16	14° $\text{Q}$ 59'43
max. Earth dist.	6099 Sep 04 20:05	18° $\text{P}$ 50'04	1.32657 AU			
evening rise	6099 Sep 10 10:01	0° $\text{B}$ 37'44		superior conj	6100 Aug 18 15:49	0° $\text{P}$ 07'52 1°18'43
	6099 Sep 10 02:39	0° $\text{B}$		minimum elong	6100 Aug 18 13:33	29° $\text{Q}$ 55'24 1°18'23
	6099 Sep 26 18:05	0° $\text{M}$			6100 Aug 18 14:23	0° $\text{P}$
desc. node	6099 Sep 28 00:08	1° $\text{M}$ 54'38		max. Earth dist.	6100 Aug 19 04:59	1° $\text{P}$ 20'37 1.32028 AU
evening max el	6099 Oct 13 10:23	21° $\text{M}$ 08'31	27°27'27	evening rise	6100 Aug 25 13:58	15° $\text{P}$ 08'13
retrograde	6099 Oct 27 03:32	28° $\text{M}$ 24'27			6100 Sep 02 02:11	0° $\text{B}$
evening set	6099 Nov 03 07:09	25° $\text{M}$ 52'55		desc. node	6100 Sep 14 21:09	20° $\text{B}$ 48'38
min. Earth dist.	6099 Nov 06 23:08	22° $\text{M}$ 48'38	0.63047 AU		6100 Sep 22 04:42	0° $\text{M}$
inferior conj	6099 Nov 09 17:14	20° $\text{M}$ 07'16	-3°01'46	evening max el	6100 Sep 25 16:28	3° $\text{M}$ 35'10 27°06'19
minimum elong	6099 Nov 09 22:37	19° $\text{M}$ 54'05	2°59'49	retrograde	6100 Oct 09 13:30	10° $\text{M}$ 47'01
morning rise	6099 Nov 16 15:48	14° $\text{M}$ 55'02		evening set	6100 Oct 16 14:49	8° $\text{M}$ 34'08
direct	6099 Nov 19 00:49	14° $\text{M}$ 28'35		min. Earth dist.	6100 Oct 20 07:01	5° $\text{M}$ 52'05 0.61079 AU
asc. node	6099 Nov 19 03:41	14° $\text{M}$ 28'40		inferior conj	6100 Oct 23 10:02	3° $\text{M}$ 10'27 -4°04'14
morning max el	6099 Nov 25 16:29	17° $\text{M}$ 54'09	17°48'58	minimum elong	6100 Oct 23 16:36	2° $\text{M}$ 56'14 4°02'24
	6099 Dec 04 09:44	0° $\text{J}$			6100 Oct 27 10:30	30° $\text{K}$ $\text{B}$
morning set	6099 Dec 11 21:02	12° $\text{J}$ 53'37		morning rise	6100 Oct 30 20:30	28° $\text{B}$ 18'23
	6099 Dec 21 18:56	0° $\text{B}$		direct	6100 Nov 02 03:14	27° $\text{B}$ 57'20
				asc. node	6100 Nov 06 00:45	29° $\text{B}$ 01'32
superior conj	6099 Dec 23 17:23	3° $\text{B}$ 14'26	0°08'55		6100 Nov 07 12:39	0° $\text{M}$
minimum elong	6099 Dec 23 18:18	3° $\text{B}$ 18'13	0°08'49	morning max el	6100 Nov 09 07:10	1° $\text{M}$ 32'10 17°58'12
behind sun begin	6099 Dec 23 10:27	2° $\text{B}$ 45'32		morning set	6100 Nov 25 00:19	26° $\text{M}$ 17'55
behind sun end	6099 Dec 24 02:08	3° $\text{B}$ 50'49			6100 Nov 27 00:36	0° $\text{J}$
desc. node	6099 Dec 24 23:23	5° $\text{B}$ 18'51				
max. Earth dist.	6099 Dec 30 06:27	13° $\text{B}$ 56'06	1.43984 AU	superior conj	6100 Dec 05 05:25	14° $\text{J}$ 46'19 0°46'34
evening rise	6100 Jan 07 22:44	27° $\text{B}$ 35'09		minimum elong	6100 Dec 05 08:53	15° $\text{J}$ 01'32 0°46'07
	6100 Jan 09 12:23	0° $\text{A}$		desc. node	6100 Dec 11 20:25	26° $\text{J}$ 05'53
	6100 Jan 30 01:04	0° $\text{K}$		max. Earth dist.	6100 Dec 12 19:06	27° $\text{J}$ 40'03 1.42362 AU
evening max el	6100 Feb 06 17:24	9° $\text{K}$ 16'38	21°03'36		6100 Dec 14 05:06	0° $\text{B}$
retrograde	6100 Feb 15 06:18	14° $\text{K}$ 19'31		evening rise	6100 Dec 18 18:59	7° $\text{B}$ 22'38
asc. node	6100 Feb 15 02:54	14° $\text{K}$ 19'25			6101 Jan 02 17:36	0° $\text{A}$
evening set	6100 Feb 19 09:28	12° $\text{K}$ 43'01		evening max el	6101 Jan 20 11:49	22° $\text{A}$ 53'52 22°19'17
inferior conj	6100 Feb 24 17:21	6° $\text{K}$ 29'58	2°45'22	retrograde	6101 Jan 30 03:03	28° $\text{A}$ 37'30
minimum elong	6100 Feb 24 15:03	6° $\text{K}$ 37'56	2°44'49	asc. node	6101 Feb 01 23:58	27° $\text{A}$ 54'31
min. Earth dist.	6100 Feb 25 02:44	5° $\text{K}$ 57'33	0.67914 AU	evening set	6101 Feb 03 17:08	26° $\text{A}$ 45'44
morning rise	6100 Mar 01 20:28	0° $\text{K}$ 16'34		inferior conj	6101 Feb 09 01:29	20° $\text{A}$ 24'08 2°10'34
	6100 Mar 02 04:05	30° $\text{K}$ $\text{A}$		minimum elong	6101 Feb 08 23:11	20° $\text{A}$ 32'09 2°09'51
direct	6100 Mar 07 03:59	27° $\text{A}$ 56'11		min. Earth dist.	6101 Feb 08 22:55	20° $\text{A}$ 33'04 0.68198 AU

morning rise	6101 Feb 14 05:04	14° $\approx$ 13'58	
direct	6101 Feb 18 22:08	12° $\approx$ 15'15	
morning max el	6101 Feb 28 06:54	17° $\approx$ 45'15	22°09'54
desc. node	6101 Mar 09 19:43	29° $\approx$ 13'08	
	6101 Mar 10 09:39	0° $\text{X}$	
	6101 Mar 30 15:42	0° $\text{Y}$	
morning set	6101 Apr 02 12:02	4° $\text{Y}$ 33'41	
max. Earth dist.	6101 Apr 07 21:54	13° $\text{Y}$ 28'50	1.41021 AU
superior conj	6101 Apr 15 16:32	26° $\text{Y}$ 55'36	-1°56'05
minimum elong	6101 Apr 15 21:28	27° $\text{Y}$ 17'32	1°55'42
	6101 Apr 17 09:44	0° $\text{Z}$	
evening rise	6101 Apr 26 02:09	16° $\text{Z}$ 00'13	
asc. node	6101 Apr 30 23:11	25° $\text{Z}$ 00'14	
	6101 May 03 19:18	0° $\text{II}$	
evening max el	6101 May 12 06:17	11° $\text{II}$ 48'20	18°16'41
retrograde	6101 May 19 09:54	15° $\text{II}$ 22'57	
evening set	6101 May 21 19:05	14° $\text{II}$ 59'59	
inferior conj	6101 May 28 23:11	10° $\text{II}$ 19'08	2°07'01
minimum elong	6101 May 29 02:32	10° $\text{II}$ 11'57	2°06'01
min. Earth dist.	6101 Jun 01 09:18	7° $\text{II}$ 24'33	0.59164 AU
morning rise	6101 Jun 05 06:59	4° $\text{II}$ 40'42	
desc. node	6101 Jun 05 18:58	4° $\text{II}$ 24'27	
direct	6101 Jun 11 13:47	2° $\text{II}$ 53'02	
morning max el	6101 Jun 25 23:00	10° $\text{II}$ 42'22	27°23'32
	6101 Jul 10 21:56	0° $\text{III}$	
morning set	6101 Jul 27 01:24	29° $\text{III}$ 36'50	
	6101 Jul 27 05:49	0° $\text{O}$	
asc. node	6101 Jul 27 22:29	1° $\text{O}$ 27'52	
max. Earth dist.	6101 Aug 02 15:53	13° $\text{O}$ 54'48	1.31838 AU
superior conj	6101 Aug 03 03:36	14° $\text{O}$ 59'36	1°00'34
minimum elong	6101 Aug 03 01:25	14° $\text{O}$ 47'31	1°00'10
evening rise	6101 Aug 09 22:32	29° $\text{O}$ 49'59	
	6101 Aug 10 00:26	0° $\text{P}$	
	6101 Aug 26 09:03	0° $\text{Q}$	
desc. node	6101 Sep 01 18:12	8° $\text{Q}$ 46'24	
evening max el	6101 Sep 07 15:42	15° $\text{Q}$ 13'56	26°11'50
retrograde	6101 Sep 21 14:40	22° $\text{Q}$ 20'53	
evening set	6101 Sep 28 02:29	20° $\text{Q}$ 38'37	
min. Earth dist.	6101 Oct 02 04:50	18° $\text{Q}$ 03'51	0.59001 AU
inferior conj	6101 Oct 05 10:04	15° $\text{Q}$ 38'53	-4°55'38
minimum elong	6101 Oct 05 15:44	15° $\text{Q}$ 28'12	4°54'40
morning rise	6101 Oct 13 07:13	11° $\text{Q}$ 09'12	
direct	6101 Oct 15 15:28	10° $\text{Q}$ 50'32	
morning max el	6101 Oct 23 15:59	14° $\text{Q}$ 43'48	18°27'23
asc. node	6101 Oct 23 21:48	14° $\text{Q}$ 57'58	
	6101 Nov 03 04:50	0° $\text{R}$	
morning set	6101 Nov 08 16:19	10° $\text{R}$ 17'37	
superior conj	6101 Nov 17 16:00	27° $\text{R}$ 22'52	1°14'14
minimum elong	6101 Nov 17 19:37	27° $\text{R}$ 39'38	1°13'51
	6101 Nov 19 02:10	0° $\text{S}$	
max. Earth dist.	6101 Nov 25 02:49	10° $\text{S}$ 43'03	1.40367 AU
desc. node	6101 Nov 28 17:26	16° $\text{S}$ 51'01	
evening rise	6101 Nov 29 11:20	18° $\text{S}$ 05'29	
	6101 Dec 06 21:20	0° $\text{T}$	
	6101 Dec 28 05:19	0° $\approx$	
evening max el	6102 Jan 03 02:37	6° $\approx$ 34'38	23°39'13
retrograde	6102 Jan 13 20:47	12° $\approx$ 55'23	