

conjunction	13100 Mar 17 11:40	4°♈18'18 -0°53'51	retrograde	13105 Jun 23 16:51	2°♋26'34
minimum elong	13100 Mar 17 10:33	4°♈16'31 0°53'49		13105 Jul 12 15:27	30°♊
	13100 Apr 26 19:07	0°♉	desc. node	13105 Jul 19 12:47	27°♊58'08
morning rise	13100 Apr 29 15:16	1°♉49'21	min. Earth dist.	13105 Jul 30 11:20	23°♊55'49 0.64537 AU
	13100 Jun 12 02:48	0°♊	opposition	13105 Aug 03 05:12	22°♊26'41 -0°33'55
	13100 Jul 27 10:02	0°♋	greatest brilliancy	13105 Aug 03 03:03	22°♊28'49 -1.5m
	13100 Sep 09 15:32	0°♌	direct	13105 Sep 11 12:00	13°♊15'52
	13100 Oct 23 00:13	0°♍		13105 Nov 12 22:30	0°♋
	13100 Dec 05 08:14	0°♎		13106 Jan 10 05:24	0°♈
asc. node	13100 Dec 07 11:32	1°♎27'20		13106 Mar 01 04:17	0°♉
	13101 Jan 20 18:46	0°♏		13106 Apr 16 00:36	0°♊
retrograde	13101 Mar 27 07:31	23°♏38'40	evening set	13106 May 27 05:30	28°♊49'54
min. Earth dist.	13101 Apr 22 07:51	19°♏08'07 0.40726 AU		13106 May 28 20:21	0°♋
greatest brilliancy	13101 Apr 28 04:50	17°♏17'52 -2.7m	max. Earth dist.	13106 Jun 10 16:00	9°♋20'12 2.42917 AU
opposition	13101 Apr 29 20:45	16°♏46'22 6°32'34		13106 Jul 08 08:01	0°♌
direct	13101 May 30 12:54	11°♏03'34			
	13101 Aug 01 12:20	0°♍	conjunction	13106 Jul 24 04:53	12°♌07'55 -0°03'40
	13101 Sep 25 12:43	0°♎	minimum elong	13106 Jul 24 05:14	12°♌08'36 0°04'28
desc. node	13101 Oct 13 18:37	10°♎42'46	behind sun begin	13106 Jul 23 03:12	11°♌18'30
	13101 Nov 14 23:50	0°♏	behind sun end	13106 Jul 25 07:16	12°♌58'45
	13102 Jan 03 05:30	0°♋	asc. node	13106 Jul 29 07:56	16°♌05'25
	13102 Feb 20 13:31	0°♈		13106 Aug 16 04:44	0°♉
evening set	13102 Mar 08 13:15	10°♈04'50		13106 Sep 23 05:26	0°♊
max. Earth dist.	13102 Apr 05 20:21	28°♈10'12 2.64829 AU	morning rise	13106 Oct 02 06:43	7°♊09'56
	13102 Apr 08 16:19	0°♉		13106 Oct 31 06:51	0°♋
				13106 Dec 09 06:31	0°♌
conjunction	13102 Apr 21 18:05	8°♉30'00 -1°10'19		13107 Jan 19 02:13	0°♍
minimum elong	13102 Apr 21 17:49	8°♉29'33 1°10'52		13107 Mar 03 19:06	0°♎
	13102 May 24 05:21	0°♊		13107 Apr 21 07:27	0°♏
morning rise	13102 Jun 05 23:08	8°♊36'08	desc. node	13107 Jun 06 14:04	23°♋28'01
	13102 Jul 07 00:27	0°♋		13107 Jun 23 22:58	0°♈
	13102 Aug 18 02:12	0°♌	retrograde	13107 Jul 27 20:31	6°♈02'52
	13102 Sep 27 16:25	0°♍		13107 Aug 27 22:20	30°♊
asc. node	13102 Oct 25 05:55	20°♍49'36	opposition	13107 Sep 06 12:23	26°♋19'17 -3°02'48
	13102 Nov 06 07:12	0°♎	greatest brilliancy	13107 Sep 06 11:08	26°♋20'31 -1.3m
	13102 Dec 15 20:34	0°♏	min. Earth dist.	13107 Sep 06 13:37	26°♋18'03 0.68492 AU
	13103 Jan 25 23:07	0°♍	direct	13107 Oct 17 16:39	16°♋29'12
	13103 Mar 13 13:08	0°♎		13107 Dec 11 04:24	0°♈
retrograde	13103 May 17 13:25	22°♎12'44		13108 Feb 07 07:31	0°♉
min. Earth dist.	13103 Jun 17 23:56	15°♎29'08 0.54315 AU		13108 Mar 26 02:20	0°♊
opposition	13103 Jun 25 06:22	12°♎42'51 2°55'19		13108 May 08 07:56	0°♋
greatest brilliancy	13103 Jun 24 12:41	12°♎59'45 -1.9m	asc. node	13108 Jun 15 04:16	28°♋04'52
direct	13103 Jul 31 02:43	4°♎46'43		13108 Jun 17 16:43	0°♌
desc. node	13103 Sep 01 04:35	10°♎16'00		13108 Jul 26 07:24	0°♍
	13103 Oct 18 08:16	0°♏	evening set	13108 Jul 27 10:05	0°♎52'35
	13103 Dec 12 22:28	0°♋		13108 Sep 02 03:39	0°♊
	13104 Feb 01 13:42	0°♈			
	13104 Mar 20 09:33	0°♉	conjunction	13108 Oct 07 23:30	28°♊17'03 1°03'09
evening set	13104 Apr 13 06:31	15°♉35'24	minimum elong	13108 Oct 07 21:06	28°♊12'23 1°03'31
max. Earth dist.	13104 May 01 02:06	27°♉30'40 2.55992 AU		13108 Oct 10 04:10	0°♋
	13104 May 04 18:17	0°♊		13108 Nov 18 05:49	0°♌
			max. Earth dist.	13108 Nov 30 20:15	9°♌25'08 2.40706 AU
conjunction	13104 May 30 23:20	18°♊04'44 -0°58'15	morning rise	13108 Dec 15 17:33	20°♌21'35
minimum elong	13104 May 31 00:50	18°♊07'22 0°59'12		13108 Dec 29 02:07	0°♍
	13104 Jun 16 19:44	0°♋		13109 Feb 10 07:08	0°♎
morning rise	13104 Jul 22 20:59	26°♋17'22		13109 Mar 28 10:42	0°♏
	13104 Jul 27 20:29	0°♌	desc. node	13109 Apr 23 05:43	15°♋45'38
	13104 Sep 05 07:37	0°♍		13109 May 17 21:40	0°♈
asc. node	13104 Sep 10 18:06	4°♍12'11		13109 Jul 19 13:04	0°♉
	13104 Oct 13 20:16	0°♎	retrograde	13109 Aug 31 05:00	8°♉49'22
	13104 Nov 21 06:18	0°♏	opposition	13109 Oct 09 16:59	29°♈44'59 -4°37'28
	13104 Dec 30 14:17	0°♍		13109 Oct 09 01:31	30°♊
	13105 Feb 10 04:43	0°♎	greatest brilliancy	13109 Oct 10 06:56	29°♈31'26 -1.3m
	13105 Mar 28 15:16	0°♏	min. Earth dist.	13109 Oct 13 15:14	28°♈13'23 0.65709 AU
	13105 Jun 03 14:06	0°♋	direct	13109 Nov 20 06:55	19°♈42'09

	13110 Jan 04 08:59	0°♄			13114 Dec 14 13:50	0°♊
	13110 Mar 02 17:21	0°♈	evening set		13115 Jan 18 16:47	22°♊40'17
	13110 Apr 17 01:16	0°♊			13115 Jan 30 03:54	0°♋
asc. node	13110 May 03 06:52	11°♊37'24				
	13110 May 28 00:12	0°♈	conjunction		13115 Mar 04 22:40	21°♋28'36 -0°41'58
	13110 Jul 05 19:12	0°♎	minimum elong		13115 Mar 04 21:34	21°♋26'52 0°41'43
	13110 Aug 12 19:01	0°♌	max. Earth dist.		13115 Mar 06 13:03	22°♋29'26 2.68258 AU
	13110 Sep 20 01:52	0°♍			13115 Mar 18 09:22	0°♎
evening set	13110 Oct 12 08:55	17°♍05'35	morning rise		13115 Apr 17 05:44	18°♎55'53
	13110 Oct 29 12:59	0°♌			13115 May 04 15:29	0°♈
	13110 Dec 09 19:25	0°♊			13115 Jun 20 12:08	0°♈
					13115 Aug 05 19:43	0°♊
conjunction	13110 Dec 13 04:02	2°♊22'38 0°46'26			13115 Sep 20 16:42	0°♈
minimum elong	13110 Dec 13 06:05	2°♊26'16 0°47'25			13115 Nov 05 18:35	0°♎
max. Earth dist.	13111 Jan 16 06:46	25°♊59'05 2.54547 AU			13115 Dec 24 22:02	0°♌
	13111 Jan 22 05:20	0°♊	asc. node		13115 Dec 25 04:08	0°♌08'30
morning rise	13111 Feb 04 12:44	8°♊54'07	retrograde		13116 Feb 29 02:56	22°♌48'26
	13111 Mar 08 20:28	0°♋	min. Earth dist.		13116 Mar 26 17:19	18°♌29'30 0.37103 AU
desc. node	13111 Mar 10 16:17	1°♋10'14	opposition		13116 Mar 30 17:10	17°♌23'50 6°12'41
	13111 Apr 25 18:35	0°♎	greatest brilliancy		13116 Mar 29 19:02	17°♌39'03 -3.0m
	13111 Jun 15 17:56	0°♄	direct		13116 Apr 28 21:37	12°♌28'28
	13111 Aug 13 09:23	0°♈			13116 Jun 26 04:53	0°♍
retrograde	13111 Oct 12 08:23	15°♈47'26			13116 Aug 18 09:22	0°♌
opposition	13111 Nov 18 02:59	7°♈51'19 -4°54'39			13116 Oct 06 03:20	0°♊
greatest brilliancy	13111 Nov 19 11:28	7°♈21'07 -1.8m	desc. node		13116 Oct 30 04:20	14°♊57'56
min. Earth dist.	13111 Nov 25 16:14	5°♈03'12 0.56252 AU			13116 Nov 23 07:42	0°♊
	13111 Dec 12 12:29	30°♋♄			13117 Jan 10 11:50	0°♋
direct	13111 Dec 28 02:39	28°♋19'52	evening set		13117 Feb 22 20:38	27°♋09'24
	13112 Jan 13 04:59	0°♈			13117 Feb 27 08:52	0°♎
	13112 Mar 19 18:54	0°♊	max. Earth dist.		13117 Mar 27 17:51	18°♎00'30 2.66870 AU
asc. node	13112 Mar 20 14:36	0°♊30'31				
	13112 May 03 02:36	0°♈	conjunction		13117 Apr 07 18:08	25°♎03'54 -1°06'42
	13112 Jun 12 04:44	0°♎	minimum elong		13117 Apr 07 17:23	25°♎02'41 1°07'03
	13112 Jul 21 00:10	0°♌			13117 Apr 15 10:03	0°♄
	13112 Aug 29 01:36	0°♍	morning rise		13117 May 21 16:30	23°♄41'20
	13112 Oct 08 08:51	0°♌			13117 May 31 04:41	0°♈
	13112 Nov 19 11:25	0°♊			13117 Jul 14 11:09	0°♊
evening set	13112 Dec 07 15:24	12°♊31'24			13117 Aug 26 04:25	0°♈
	13113 Jan 02 13:15	0°♊			13117 Oct 06 12:46	0°♎
desc. node	13113 Jan 25 05:44	14°♊58'40	asc. node		13117 Nov 11 00:08	26°♎17'07
					13117 Nov 15 23:54	0°♌
conjunction	13113 Jan 26 21:48	16°♊04'09 -0°00'56			13117 Dec 26 16:15	0°♍
minimum elong	13113 Jan 26 21:50	16°♊04'12 0°00'10			13118 Feb 08 03:27	0°♌
behind sun begin	13113 Jan 26 02:08	15°♊32'02			13118 Apr 10 01:36	0°♊
behind sun end	13113 Jan 27 17:32	16°♊36'20	retrograde		13118 Apr 29 22:27	2°♊43'01
max. Earth dist.	13113 Feb 11 16:46	26°♊19'45 2.64126 AU			13118 May 19 04:05	30°♋♌
	13113 Feb 17 09:18	0°♋	min. Earth dist.		13118 May 28 22:12	26°♌53'28 0.49009 AU
morning rise	13113 Mar 13 21:20	15°♋39'59	greatest brilliancy		13118 Jun 04 21:47	24°♌21'28 -2.2m
	13113 Apr 05 13:56	0°♎	opposition		13118 Jun 06 03:59	23°♌53'54 4°30'50
	13113 May 23 19:35	0°♄	direct		13118 Jul 10 04:03	16°♌42'41
	13113 Jul 12 06:37	0°♈			13118 Aug 31 15:17	0°♊
	13113 Sep 02 10:50	0°♊	desc. node		13118 Sep 17 14:16	7°♊42'11
	13113 Nov 06 09:43	0°♈			13118 Oct 30 05:32	0°♊
retrograde	13113 Dec 09 07:30	5°♈51'34			13118 Dec 21 07:50	0°♋
opposition	13114 Jan 10 10:04	29°♊55'17 -1°45'44			13119 Feb 08 19:43	0°♎
	13114 Jan 10 04:04	30°♋♊			13119 Mar 28 06:54	0°♄
greatest brilliancy	13114 Jan 11 01:41	29°♊43'02 -2.6m	evening set		13119 Mar 30 11:36	1°♄25'11
min. Earth dist.	13114 Jan 18 12:01	27°♊24'02 0.42316 AU	max. Earth dist.		13119 Apr 21 01:44	15°♄32'44 2.60070 AU
asc. node	13114 Feb 05 23:48	23°♊15'34			13119 May 12 16:18	0°♈
direct	13114 Feb 14 00:51	22°♊47'35				
	13114 Mar 19 11:25	0°♈	conjunction		13119 May 15 05:48	1°♈44'11 -1°07'12
	13114 May 12 07:04	0°♎	minimum elong		13119 May 15 06:35	1°♈45'30 1°08'03
	13114 Jun 24 09:26	0°♌			13119 Jun 24 23:39	0°♊
	13114 Aug 05 01:42	0°♍	morning rise		13119 Jul 03 03:48	5°♊49'22
	13114 Sep 16 10:09	0°♌			13119 Aug 05 08:44	0°♈
	13114 Oct 30 05:14	0°♊			13119 Sep 14 04:29	0°♎
desc. node	13114 Dec 13 01:01	29°♊00'02	asc. node		13119 Sep 28 15:31	11°♎06'34

	13119 Oct 23 00:46	0°♄			13125 Mar 12 05:31	0°♄	
	13119 Nov 30 17:27	0°♄			13125 Apr 25 09:45	0°♄	
	13120 Jan 09 10:06	0°♄	asc. node		13125 May 19 20:27	17°♄49'38	
	13120 Feb 20 21:19	0°♄			13125 Jun 05 00:27	0°♄	
	13120 Apr 10 19:04	0°♄			13125 Jul 13 16:17	0°♄	
retrograde	13120 Jun 09 17:11	18°♄13'49	greatest brilliancy		13125 Aug 12 07:44	23°♄27'45	1.2m
min. Earth dist.	13120 Jul 14 13:51	10°♄19'50	0.61236 AU		13125 Aug 20 13:38	0°♄	
opposition	13120 Jul 19 18:23	8°♄17'06	0°39'26	evening set	13125 Sep 13 11:11	18°♄52'05	
greatest brilliancy	13120 Jul 19 15:29	8°♄19'58	-1.6m		13125 Sep 27 16:55	0°♄	
desc. node	13120 Aug 04 23:45	2°♄36'00			13125 Nov 05 23:11	0°♄	
	13120 Aug 18 01:38	30°♄♄					
direct	13120 Aug 26 21:22	29°♄30'03	conjunction		13125 Nov 20 12:13	10°♄47'54	1°00'44
	13120 Sep 05 01:54	0°♄	minimum elong		13125 Nov 20 14:10	10°♄51'29	1°01'39
	13120 Nov 25 16:29	0°♄			13125 Dec 17 00:25	0°♄	
	13121 Jan 18 15:38	0°♄	max. Earth dist.		13126 Jan 02 11:15	11°♄36'07	2.49484 AU
	13121 Mar 08 12:52	0°♄	morning rise		13126 Jan 17 21:31	22°♄15'54	
	13121 Apr 23 03:00	0°♄			13126 Jan 29 06:36	0°♄	
evening set	13121 May 08 16:13	10°♄40'35			13126 Mar 15 23:25	0°♄	
max. Earth dist.	13121 May 22 10:46	20°♄19'30	2.48404 AU	desc. node	13126 Mar 27 12:25	7°♄18'50	
	13121 Jun 05 00:21	0°♄			13126 May 03 12:25	0°♄	
					13126 Jun 25 18:22	0°♄	
conjunction	13121 Jun 30 10:45	18°♄35'29	-0°30'36		13126 Sep 13 15:05	0°♄	
minimum elong	13121 Jun 30 12:35	18°♄38'53	0°31'34	retrograde	13126 Sep 24 15:34	0°♄41'40	
	13121 Jul 15 16:35	0°♄			13126 Oct 05 05:53	30°♄♄	
asc. node	13121 Aug 15 04:22	23°♄20'02		opposition	13126 Nov 01 17:01	22°♄14'03	-5°01'16
	13121 Aug 23 18:14	0°♄		greatest brilliancy	13126 Nov 02 19:04	21°♄49'15	-1.6m
morning rise	13121 Aug 31 23:43	6°♄25'35		min. Earth dist.	13126 Nov 07 22:14	19°♄52'04	0.60715 AU
	13121 Sep 30 22:43	0°♄		direct	13126 Dec 12 14:53	12°♄22'07	
greatest brilliancy	13121 Oct 25 01:47	19°♄01'04	1.2m		13127 Feb 10 04:56	0°♄	
	13121 Nov 08 02:06	0°♄			13127 Apr 01 13:12	0°♄	
	13121 Dec 17 02:45	0°♄	asc. node		13127 Apr 07 03:42	3°♄46'50	
	13122 Jan 27 01:26	0°♄			13127 May 13 20:34	0°♄	
	13122 Mar 12 07:19	0°♄			13127 Jun 22 04:46	0°♄	
	13122 May 02 05:11	0°♄			13127 Jul 30 13:18	0°♄	
desc. node	13122 Jun 23 03:35	20°♄53'14			13127 Sep 07 04:53	0°♄	
retrograde	13122 Jul 14 17:10	23°♄33'20			13127 Oct 17 01:55	0°♄	
min. Earth dist.	13122 Aug 23 00:28	14°♄14'41	0.67730 AU	evening set	13127 Nov 18 21:16	23°♄43'25	
opposition	13122 Aug 24 11:15	13°♄40'10	-2°11'50		13127 Nov 27 18:39	0°♄	
greatest brilliancy	13122 Aug 24 07:23	13°♄44'01	-1.3m		13128 Jan 10 12:25	0°♄	
direct	13122 Oct 04 01:44	4°♄02'17					
	13122 Dec 24 15:34	0°♄	conjunction		13128 Jan 11 15:26	0°♄45'15	0°17'37
	13123 Feb 16 00:09	0°♄	minimum elong		13128 Jan 11 16:14	0°♄46'35	0°18'32
	13123 Apr 03 18:45	0°♄	max. Earth dist.		13128 Feb 02 20:14	15°♄28'04	2.61012 AU
	13123 May 16 18:45	0°♄	desc. node		13128 Feb 11 22:56	21°♄25'24	
	13123 Jun 26 03:53	0°♄			13128 Feb 25 04:42	0°♄	
evening set	13123 Jul 01 02:39	3°♄46'46	morning rise		13128 Feb 28 18:16	2°♄17'41	
asc. node	13123 Jul 02 20:21	5°♄06'38			13128 Apr 12 13:05	0°♄	
	13123 Aug 03 20:24	0°♄			13128 May 31 12:14	0°♄	
					13128 Jul 21 23:41	0°♄	
conjunction	13123 Sep 07 09:13	27°♄19'54	0°44'06		13128 Sep 19 04:30	0°♄	
minimum elong	13123 Sep 07 05:14	27°♄11'58	0°43'54	retrograde	13128 Nov 13 08:24	14°♄02'15	
	13123 Sep 10 17:55	0°♄		opposition	13128 Dec 17 11:37	7°♄11'52	-3°41'13
max. Earth dist.	13123 Sep 16 04:50	4°♄19'43	2.36293 AU	greatest brilliancy	13128 Dec 18 19:01	6°♄44'45	-2.2m
	13123 Oct 18 18:01	0°♄		min. Earth dist.	13128 Dec 26 05:13	4°♄12'03	0.47876 AU
morning rise	13123 Nov 20 05:54	25°♄04'59			13129 Jan 10 22:13	30°♄♄	
	13123 Nov 26 17:43	0°♄	direct		13129 Jan 23 19:28	28°♄48'27	
	13124 Jan 06 11:58	0°♄			13129 Feb 05 23:43	0°♄	
	13124 Feb 18 17:59	0°♄	asc. node		13129 Feb 22 11:58	4°♄26'54	
	13124 Apr 05 10:03	0°♄			13129 Apr 12 17:49	0°♄	
desc. node	13124 May 09 23:40	20°♄16'08			13129 May 26 05:10	0°♄	
	13124 May 28 03:34	0°♄			13129 Jul 05 14:43	0°♄	
retrograde	13124 Aug 17 00:26	26°♄05'17			13129 Aug 14 19:12	0°♄	
opposition	13124 Sep 26 03:03	16°♄42'49	-4°07'44		13129 Sep 25 01:35	0°♄	
greatest brilliancy	13124 Sep 26 09:54	16°♄36'05	-1.3m		13129 Nov 07 00:26	0°♄	
min. Earth dist.	13124 Sep 28 12:40	15°♄46'18	0.67605 AU		13129 Dec 21 18:00	0°♄	
direct	13124 Nov 06 17:38	6°♄41'21		desc. node	13129 Dec 29 15:47	5°♄11'34	
	13125 Jan 19 20:23	0°♄	evening set		13130 Jan 03 09:44	8°♄17'51	

	13130 Feb 05 23:02	0°♄			13135 Jan 19 04:17	0°♂		
					13135 Mar 04 11:51	0°♂		
conjunction	13130 Feb 19 01:46	8°♄23'22 -0°27'39			13135 May 07 02:36	0°♄		
minimum elong	13130 Feb 19 00:55	8°♄22'00 0°27'11	retrograde		13135 May 26 17:06	2°♄29'55		
max. Earth dist.	13130 Feb 26 01:05	12°♄49'57 2.67306 AU			13135 Jun 14 08:12	30°♄♂		
	13130 Mar 25 02:22	0°♂	min. Earth dist.		13135 Jun 28 10:19	25°♂19'13 0.56979 AU		
morning rise	13130 Apr 03 23:49	6°♂15'25	opposition		13135 Jul 04 23:45	22°♂46'36 2°03'00		
	13130 May 11 14:55	0°♄	greatest brilliancy		13135 Jul 04 12:23	22°♂57'38 -1.8m		
	13130 Jun 28 05:36	0°♄	direct		13135 Aug 10 16:41	14°♂30'14		
	13130 Aug 15 00:24	0°♄	desc. node		13135 Aug 22 09:52	15°♂19'11		
	13130 Oct 02 16:49	0°♄			13135 Oct 08 13:53	0°♄		
	13130 Nov 24 13:34	0°♄			13135 Dec 06 20:46	0°♄		
asc. node	13131 Jan 10 19:14	18°♄20'48			13136 Jan 27 11:24	0°♂		
retrograde	13131 Jan 27 19:42	20°♄10'56			13136 Mar 15 15:37	0°♄		
opposition	13131 Feb 26 10:43	15°♄18'29 3°30'47	evening set		13136 Apr 22 02:18	24°♄35'15		
greatest brilliancy	13131 Feb 26 13:53	15°♄16'22 -3.0m			13136 Apr 30 02:35	0°♄		
min. Earth dist.	13131 Feb 28 05:50	14°♄49'41 0.36627 AU	max. Earth dist.		13136 May 08 02:27	5°♄27'19 2.53454 AU		
direct	13131 Mar 28 08:23	10°♄14'10						
	13131 May 27 20:44	0°♄	conjunction		13136 Jun 10 06:23	28°♄40'24 -0°50'14		
	13131 Jul 16 10:56	0°♄	minimum elong		13136 Jun 10 08:13	28°♄43'40 0°51'12		
	13131 Aug 31 09:56	0°♄			13136 Jun 12 02:55	0°♄		
	13131 Oct 16 09:25	0°♄			13136 Jul 23 00:51	0°♄		
desc. node	13131 Nov 16 15:53	20°♄07'29	morning rise		13136 Aug 05 02:10	9°♄51'00		
	13131 Dec 02 03:19	0°♄	asc. node		13136 Aug 31 23:42	0°♄29'29		
	13132 Jan 18 12:59	0°♄			13136 Aug 31 08:29	0°♄		
evening set	13132 Feb 10 02:52	14°♄13'59			13136 Oct 08 17:58	0°♄		
	13132 Mar 06 02:02	0°♂			13136 Nov 16 00:59	0°♄		
max. Earth dist.	13132 Mar 18 23:22	8°♂10'17 2.68081 AU			13136 Dec 25 05:00	0°♄		
					13137 Feb 04 11:08	0°♄		
conjunction	13132 Mar 25 04:08	12°♂06'37 -0°59'31			13137 Mar 21 18:16	0°♄		
minimum elong	13132 Mar 25 03:05	12°♂04'57 0°59'38			13137 May 17 06:34	0°♄		
	13132 Apr 22 03:38	0°♄	retrograde		13137 Jul 01 11:01	10°♄37'13		
morning rise	13132 May 07 10:36	9°♄51'58	desc. node		13137 Jul 09 17:40	10°♄09'48		
	13132 Jun 07 06:28	0°♄	min. Earth dist.		13137 Aug 08 04:02	1°♄48'21 0.65948 AU		
	13132 Jul 22 04:10	0°♄	opposition		13137 Aug 11 02:27	0°♄38'23 -1°12'34		
	13132 Sep 03 19:05	0°♄	greatest brilliancy		13137 Aug 10 22:40	0°♄42'08 -1.4m		
	13132 Oct 16 06:42	0°♄			13137 Aug 12 17:10	30°♄♄		
asc. node	13132 Nov 27 19:46	0°♄25'58	direct		13137 Sep 19 21:36	21°♄16'51		
	13132 Nov 27 05:12	0°♄			13137 Nov 01 12:33	0°♄		
	13133 Jan 09 08:52	0°♄			13138 Jan 04 01:46	0°♂		
	13133 Mar 02 08:37	0°♄			13138 Feb 24 00:31	0°♄		
retrograde	13133 Apr 09 12:30	9°♄22'10			13138 Apr 11 04:31	0°♄		
min. Earth dist.	13133 May 06 05:53	4°♄28'16 0.43483 AU			13138 May 24 02:15	0°♄		
greatest brilliancy	13133 May 12 21:52	2°♄15'02 -2.5m	evening set		13138 Jun 07 20:20	10°♄45'31		
opposition	13133 May 14 13:55	1°♄41'26 5°59'49	max. Earth dist.		13138 Jun 26 09:45	24°♄35'09 2.39980 AU		
	13133 May 19 18:46	30°♄♄			13138 Jul 03 13:31	0°♄		
direct	13133 Jun 15 09:30	25°♄26'08	asc. node		13138 Jul 19 14:52	12°♄17'30		
	13133 Jul 13 12:45	0°♄						
	13133 Sep 17 12:46	0°♄	conjunction		13138 Aug 08 07:59	27°♄37'09 0°14'01		
desc. node	13133 Oct 03 23:03	9°♄07'18	minimum elong		13138 Aug 08 06:40	27°♄34'36 0°13'22		
	13133 Nov 09 01:24	0°♄	behind sun begin		13138 Aug 07 14:17	27°♄02'32		
	13133 Dec 29 03:01	0°♄	behind sun end		13138 Aug 08 23:04	28°♄06'40		
	13134 Feb 15 19:55	0°♂			13138 Aug 11 08:54	0°♄		
evening set	13134 Mar 16 10:30	18°♂02'46			13138 Sep 18 08:19	0°♄		
	13134 Apr 04 01:30	0°♄	morning rise		13138 Oct 20 11:58	25°♄24'08		
max. Earth dist.	13134 Apr 11 06:12	4°♄39'55 2.63354 AU			13138 Oct 26 08:42	0°♄		
					13138 Dec 04 07:18	0°♄		
conjunction	13134 Apr 30 00:29	16°♄58'04 -1°10'34			13139 Jan 14 01:01	0°♄		
minimum elong	13134 Apr 30 00:33	16°♄58'11 1°11'15			13139 Feb 26 11:23	0°♄		
	13134 May 19 13:22	0°♄			13139 Apr 15 01:21	0°♄		
morning rise	13134 Jun 15 06:21	18°♄12'49	desc. node		13139 May 27 16:05	23°♄14'17		
	13134 Jul 02 04:18	0°♄			13139 Jun 11 08:46	0°♂		
	13134 Aug 13 00:03	0°♄	retrograde		13139 Aug 04 11:26	13°♂38'51		
	13134 Sep 22 07:17	0°♄	opposition		13139 Sep 13 23:32	4°♂01'54 -3°29'14		
asc. node	13134 Oct 15 11:18	17°♄37'29	greatest brilliancy		13139 Sep 14 00:40	4°♂00'47 -1.3m		
	13134 Oct 31 14:45	0°♄	min. Earth dist.		13139 Sep 14 20:40	3°♂41'02 0.68455 AU		
	13134 Dec 09 18:47	0°♄			13139 Sep 24 12:13	30°♄♄		

direct	13139 Oct 25 08:34	24° H 06'44		conjunction	13145 Feb 04 14:55	24° \approx 46'56	-0°11'19
	13139 Nov 28 05:09	0° Y		minimum elong	13145 Feb 04 14:32	24° \approx 46'19	0°10'38
	13140 Jan 31 22:58	0° B		behind sun begin	13145 Feb 03 23:51	24° \approx 22'36	
	13140 Mar 20 18:10	0° II		behind sun end	13145 Feb 05 05:13	25° \approx 10'01	
	13140 May 03 07:10	0° E			13145 Feb 12 17:04	0° H	
asc. node	13140 Jun 05 10:53	24° E 27'19		max. Earth dist.	13145 Feb 17 02:04	2° H 48'46	2.65511 AU
	13140 Jun 12 18:15	0° Q		morning rise	13145 Mar 21 16:27	23° H 35'04	
	13140 Jul 21 09:28	0° M			13145 Mar 31 20:13	0° Y	
evening set	13140 Aug 13 09:29	18° M 12'09			13145 May 18 18:19	0° B	
	13140 Aug 28 06:07	0° E			13145 Jul 06 10:01	0° II	
	13140 Oct 05 07:16	0° M			13145 Aug 25 12:18	0° E	
					13145 Oct 19 09:03	0° Q	
conjunction	13140 Oct 24 18:41	15° M 04'50	1°06'22	retrograde	13145 Dec 26 03:10	20° Q 39'26	
minimum elong	13140 Oct 24 18:22	15° M 04'14	1°07'00	opposition	13146 Jan 25 23:18	15° Q 13'24	-0°06'06
	13140 Nov 13 09:42	0° A		greatest brilliancy	13146 Jan 26 00:17	15° Q 12'40	-2.8m
max. Earth dist.	13140 Dec 15 03:24	23° A 25'42	2.43861 AU	asc. node	13146 Jan 27 09:15	14° Q 48'24	
	13140 Dec 24 06:38	0° B		min. Earth dist.	13146 Feb 01 15:59	13° Q 15'39	0.39659 AU
morning rise	13140 Dec 28 15:31	3° B 07'01		direct	13146 Feb 27 20:42	8° Q 54'40	
	13141 Feb 05 10:25	0° \approx			13146 Apr 30 07:22	0° M	
	13141 Mar 23 07:46	0° H			13146 Jun 16 03:50	0° E	
desc. node	13141 Apr 13 06:46	13° H 01'47			13146 Jul 29 07:19	0° M	
	13141 May 11 20:21	0° Y			13146 Sep 10 12:15	0° A	
	13141 Jul 08 08:11	0° B			13146 Oct 24 21:08	0° B	
retrograde	13141 Sep 08 17:06	16° B 50'13		desc. node	13146 Dec 03 03:40	25° B 48'23	
opposition	13141 Oct 17 18:18	7° B 57'32	-4°50'02		13146 Dec 09 14:56	0° \approx	
greatest brilliancy	13141 Oct 18 12:36	7° B 39'50	-1.4m		13147 Jan 25 10:40	0° H	
min. Earth dist.	13141 Oct 22 12:22	6° B 07'13	0.64205 AU	evening set	13147 Jan 27 00:56	1° H 00'51	
	13141 Nov 10 10:41	30° R Y					
direct	13141 Nov 28 04:26	27° Y 56'15		conjunction	13147 Mar 12 17:19	29° H 20'45	-0°49'18
	13141 Dec 16 20:56	0° B		minimum elong	13147 Mar 12 16:11	29° H 18'57	0°49'10
	13142 Feb 23 18:09	0° II		max. Earth dist.	13147 Mar 11 12:25	28° H 35'00	2.68431 AU
	13142 Apr 11 07:20	0° E			13147 Mar 13 18:06	0° Y	
asc. node	13142 Apr 23 15:39	8° E 41'38		morning rise	13147 Apr 24 20:40	26° Y 45'57	
	13142 May 22 15:28	0° Q			13147 Apr 29 22:09	0° B	
	13142 Jun 30 14:06	0° M			13147 Jun 15 11:45	0° II	
	13142 Aug 07 16:17	0° E			13147 Jul 31 05:21	0° E	
	13142 Sep 15 01:26	0° M			13147 Sep 14 02:52	0° Q	
	13142 Oct 24 15:04	0° A			13147 Oct 28 11:16	0° M	
evening set	13142 Oct 27 00:37	1° A 46'41			13147 Dec 12 12:36	0° E	
	13142 Dec 05 00:11	0° B		asc. node	13147 Dec 15 11:35	1° E 54'15	
					13148 Feb 02 14:34	0° M	
conjunction	13142 Dec 24 13:09	13° B 40'01	0°36'18	retrograde	13148 Mar 16 01:01	11° M 07'58	
minimum elong	13142 Dec 24 14:50	13° B 42'55	0°37'17	min. Earth dist.	13148 Apr 10 22:29	6° M 49'29	0.38805 AU
	13143 Jan 17 11:43	0° \approx		greatest brilliancy	13148 Apr 15 19:17	5° M 23'25	-2.8m
max. Earth dist.	13143 Jan 23 02:01	3° \approx 45'24	2.57082 AU	opposition	13148 Apr 17 06:10	4° M 57'31	6°40'29
morning rise	13143 Feb 13 16:43	18° \approx 03'55			13148 May 10 01:09	30° R E	
desc. node	13143 Feb 28 17:42	27° \approx 50'38		direct	13148 May 17 03:11	29° E 39'35	
	13143 Mar 04 01:58	0° H			13148 May 24 06:57	0° M	
	13143 Apr 20 17:03	0° Y			13148 Aug 08 23:09	0° A	
	13143 Jun 09 18:12	0° B			13148 Sep 29 12:10	0° B	
	13143 Aug 03 17:26	0° II		desc. node	13148 Oct 20 09:41	12° B 38'37	
retrograde	13143 Oct 23 09:06	25° II 36'49			13148 Nov 17 19:47	0° \approx	
opposition	13143 Nov 28 06:55	18° II 01'13	-4°38'49		13149 Jan 05 13:17	0° H	
greatest brilliancy	13143 Nov 29 17:11	17° II 29'57	-1.9m		13149 Feb 22 16:24	0° Y	
min. Earth dist.	13143 Dec 06 10:07	15° II 03'42	0.53447 AU	evening set	13149 Mar 02 16:23	5° Y 02'26	
direct	13144 Jan 06 12:26	8° II 47'33		max. Earth dist.	13149 Apr 01 23:40	24° Y 19'45	2.65851 AU
	13144 Mar 10 10:30	0° E			13149 Apr 10 18:57	0° B	
asc. node	13144 Mar 11 01:42	0° E 21'18					
	13144 Apr 26 06:25	0° Q		conjunction	13149 Apr 15 16:25	3° B 09'58	-1°09'19
	13144 Jun 06 02:43	0° M		minimum elong	13149 Apr 15 15:55	3° B 09'09	1°09'48
	13144 Jul 15 07:24	0° E			13149 May 26 11:21	0° II	
	13144 Aug 23 15:39	0° M		morning rise	13149 May 30 05:31	2° II 30'56	
	13144 Oct 03 04:45	0° A			13149 Jul 09 12:12	0° E	
	13144 Nov 14 12:46	0° B			13149 Aug 20 21:29	0° Q	
evening set	13144 Dec 17 20:56	22° B 42'59			13149 Sep 30 19:43	0° M	
	13144 Dec 28 18:47	0° \approx		asc. node	13149 Nov 01 07:20	23° M 36'16	
desc. node	13145 Jan 15 06:43	11° \approx 32'34			13149 Nov 09 18:50	0° E	

	13149 Dec 19 17:33	0°♄			13155 Mar 29 17:45	0°♄	
	13150 Jan 30 12:54	0°♂			13155 May 11 22:13	0°♄	
	13150 Mar 20 20:55	0°♄			13155 Jun 21 08:14	0°♄	
retrograde	13150 May 10 05:45	14°♄38'48		asc. node	13155 Jun 23 04:15	1°♄23'56	
min. Earth dist.	13150 Jun 09 14:23	8°♄18'11	0.52000 AU	evening set	13155 Jul 15 22:36	18°♄58'32	
greatest brilliancy	13150 Jun 16 09:16	5°♄45'38	-2.0m		13155 Jul 30 00:08	0°♄	
opposition	13150 Jun 17 08:15	5°♄24'00	3°35'43		13155 Sep 05 20:53	0°♄	
	13150 Jul 04 01:49	30°♄					
direct	13150 Jul 22 09:19	27°♄46'31		conjunction	13155 Sep 25 05:33	15°♄20'46	0°56'55
	13150 Aug 10 22:15	0°♄		minimum elong	13155 Sep 25 01:53	15°♄13'30	0°57'04
desc. node	13150 Sep 07 19:50	8°♄48'18			13155 Oct 13 20:42	0°♄	
	13150 Oct 22 20:31	0°♄		max. Earth dist.	13155 Nov 15 13:27	25°♄14'12	2.38301 AU
	13150 Dec 15 18:09	0°♄			13155 Nov 21 20:23	0°♄	
	13151 Feb 03 21:25	0°♄		morning rise	13155 Dec 05 18:35	10°♄25'27	
	13151 Mar 23 14:11	0°♄			13156 Jan 01 14:19	0°♄	
evening set	13151 Apr 07 19:33	9°♄53'17			13156 Feb 13 17:54	0°♄	
max. Earth dist.	13151 Apr 27 07:51	22°♄48'19	2.57905 AU		13156 Mar 31 00:07	0°♄	
	13151 May 08 00:23	0°♄		desc. node	13156 Apr 30 00:53	18°♄06'17	
					13156 May 21 03:23	0°♄	
conjunction	13151 May 24 13:05	11°♄18'04	-1°02'47		13156 Jul 29 05:49	0°♄	
minimum elong	13151 May 24 14:17	11°♄20'09	1°03'43	retrograde	13156 Aug 25 01:01	3°♄48'46	
	13151 Jun 20 05:30	0°♄			13156 Sep 18 17:06	30°♄	
morning rise	13151 Jul 14 11:28	17°♄29'06		opposition	13156 Oct 03 19:44	24°♄35'50	-4°26'10
	13151 Jul 31 11:01	0°♄		greatest brilliancy	13156 Oct 04 06:24	24°♄25'24	-1.3m
	13151 Sep 09 02:33	0°♄		min. Earth dist.	13156 Oct 07 01:17	23°♄20'03	0.66694 AU
asc. node	13151 Sep 18 20:22	7°♄30'25		direct	13156 Nov 14 10:07	14°♄32'59	
	13151 Oct 17 18:49	0°♄			13157 Jan 10 20:43	0°♄	
	13151 Nov 25 07:22	0°♄			13157 Mar 06 05:08	0°♄	
	13152 Jan 03 17:33	0°♄			13157 Apr 20 01:41	0°♄	
	13152 Feb 14 13:33	0°♄		asc. node	13157 May 10 05:55	14°♄33'18	
	13152 Apr 01 22:42	0°♄			13157 May 30 22:05	0°♄	
retrograde	13152 Jun 17 19:08	26°♄58'02			13157 Jul 08 16:04	0°♄	
min. Earth dist.	13152 Jul 23 17:32	18°♄43'07	0.63172 AU		13157 Aug 15 14:39	0°♄	
desc. node	13152 Jul 26 04:52	17°♄44'25			13157 Sep 22 19:16	0°♄	
opposition	13152 Jul 28 03:09	16°♄58'30	-0°04'33	evening set	13157 Sep 30 03:19	5°♄40'51	
greatest brilliancy	13152 Jul 28 02:56	16°♄58'43	-1.5m		13157 Nov 01 02:59	0°♄	
direct	13152 Sep 04 21:55	7°♄57'46					
	13152 Nov 17 20:03	0°♄		conjunction	13157 Dec 03 18:12	23°♄56'14	0°53'12
	13153 Jan 13 01:43	0°♄		minimum elong	13157 Dec 03 20:25	24°♄00'13	0°54'11
	13153 Mar 03 14:15	0°♄			13157 Dec 12 05:37	0°♄	
	13153 Apr 18 09:17	0°♄		max. Earth dist.	13158 Jan 10 20:47	20°♄42'37	2.52357 AU
evening set	13153 May 18 21:44	21°♄09'19			13158 Jan 24 12:15	0°♄	
	13153 May 31 06:54	0°♄		morning rise	13158 Jan 28 04:28	2°♄28'40	
max. Earth dist.	13153 Jun 01 11:45	0°♄51'59	2.45376 AU		13158 Mar 11 02:24	0°♄	
	13153 Jul 10 21:36	0°♄		desc. node	13158 Mar 17 11:47	4°♄05'00	
					13158 Apr 28 04:37	0°♄	
conjunction	13153 Jul 13 08:54	1°♄52'15	-0°16'00		13158 Jun 18 21:52	0°♄	
minimum elong	13153 Jul 13 10:08	1°♄54'36	0°16'54		13158 Aug 20 14:15	0°♄	
asc. node	13153 Aug 05 08:58	19°♄29'57		retrograde	13158 Oct 04 10:52	9°♄35'46	
	13153 Aug 18 21:00	0°♄		opposition	13158 Nov 10 19:39	1°♄24'38	-4°59'49
morning rise	13153 Sep 18 04:34	23°♄50'36		greatest brilliancy	13158 Nov 12 01:30	0°♄56'30	-1.7m
	13153 Sep 25 23:31	0°♄			13158 Nov 14 13:18	30°♄	
	13153 Nov 03 01:30	0°♄		min. Earth dist.	13158 Nov 17 18:42	28°♄47'32	0.58361 AU
	13153 Dec 12 00:37	0°♄		direct	13158 Dec 21 06:06	21°♄42'19	
	13154 Jan 21 19:58	0°♄			13159 Jan 28 13:00	0°♄	
	13154 Mar 06 15:28	0°♄			13159 Mar 25 11:54	0°♄	
	13154 Apr 24 20:14	0°♄		asc. node	13159 Mar 28 13:06	1°♄58'20	
desc. node	13154 Jun 13 07:45	23°♄24'07			13159 May 07 20:32	0°♄	
	13154 Jul 07 18:55	0°♄			13159 Jun 16 14:22	0°♄	
retrograde	13154 Jul 22 05:50	1°♄13'20			13159 Jul 25 04:21	0°♄	
	13154 Aug 04 23:16	30°♄			13159 Sep 02 00:31	0°♄	
opposition	13154 Aug 31 22:48	21°♄25'01	-2°42'45		13159 Oct 12 01:49	0°♄	
min. Earth dist.	13154 Aug 31 07:42	21°♄39'59	0.68280 AU		13159 Nov 22 22:29	0°♄	
greatest brilliancy	13154 Aug 31 20:02	21°♄27'45	-1.3m	evening set	13159 Nov 30 09:27	5°♄11'48	
direct	13154 Oct 11 21:11	11°♄40'04			13160 Jan 05 19:14	0°♄	
	13154 Dec 16 11:15	0°♄					
	13155 Feb 10 08:05	0°♄		conjunction	13160 Jan 21 02:01	10°♄09'19	0°06'45

minimum elong	13160 Jan 21 02:19	10° \approx 09'49	0°07'36		13164 Dec 31 11:17	0° \mathbb{M}	
behind sun begin	13160 Jan 20 08:09	9° \approx 39'51			13165 Feb 14 22:55	0° \mathcal{A}	
behind sun end	13160 Jan 21 20:29	10° \approx 39'46		retrograde	13165 Apr 21 11:45	23° \mathcal{A} 34'18	
desc. node	13160 Feb 02 00:18	17° \approx 59'26		min. Earth dist.	13165 May 19 09:16	18° \mathcal{A} 09'54	0.46524 AU
max. Earth dist.	13160 Feb 08 14:17	22° \approx 16'59	2.62829 AU	greatest brilliancy	13165 May 26 08:28	15° \mathcal{A} 43'15	-2.3m
	13160 Feb 20 12:18	0° \mathcal{H}		opposition	13165 May 27 19:40	15° \mathcal{A} 12'07	5°11'51
morning rise	13160 Mar 07 22:00	10° \mathcal{H} 31'20		direct	13165 Jun 29 21:41	8° \mathcal{A} 24'32	
	13160 Apr 07 17:20	0° \mathcal{Y}			13165 Sep 07 23:17	0° \mathcal{Z}	
	13160 May 26 05:17	0° \mathcal{B}		desc. node	13165 Sep 24 05:29	8° \mathcal{Z} 14'37	
	13160 Jul 15 09:54	0° \mathbb{I}			13165 Nov 02 18:04	0° \approx	
	13160 Sep 07 18:04	0° \mathcal{E}			13165 Dec 23 21:15	0° \mathcal{H}	
retrograde	13160 Nov 27 07:58	26° \mathcal{E} 19'21			13166 Feb 11 00:46	0° \mathcal{Y}	
opposition	13160 Dec 30 09:33	19° \mathcal{E} 57'59	-2°43'48	evening set	13166 Mar 24 09:07	26° \mathcal{Y} 06'19	
greatest brilliancy	13160 Dec 31 09:49	19° \mathcal{E} 38'00	-2.5m		13166 Mar 30 10:15	0° \mathcal{B}	
min. Earth dist.	13161 Jan 08 00:46	17° \mathcal{E} 08'42	0.44747 AU	max. Earth dist.	13166 Apr 16 21:02	11° \mathcal{B} 21'20	2.61637 AU
direct	13161 Feb 04 07:50	12° \mathcal{E} 13'22					
asc. node	13161 Feb 12 22:23	12° \mathcal{E} 44'28		conjunction	13166 May 08 12:47	25° \mathcal{B} 42'55	-1°09'16
	13161 Apr 01 02:21	0° \mathcal{Q}		minimum elong	13166 May 08 13:14	25° \mathcal{B} 43'42	1°10'03
	13161 May 18 06:49	0° \mathbb{M}			13166 May 14 21:46	0° \mathbb{I}	
	13161 Jun 28 21:29	0° \mathcal{L}		morning rise	13166 Jun 25 02:49	28° \mathbb{I} 23'52	
	13161 Aug 08 18:36	0° \mathbb{M}			13166 Jun 27 09:22	0° \mathcal{E}	
	13161 Sep 19 13:03	0° \mathcal{A}			13166 Aug 07 23:57	0° \mathcal{Q}	
	13161 Nov 01 21:11	0° \mathcal{Z}			13166 Sep 17 01:08	0° \mathbb{M}	
	13161 Dec 16 21:38	0° \approx		asc. node	13166 Oct 05 17:18	14° \mathbb{M} 17'06	
desc. node	13161 Dec 19 18:38	1° \approx 52'56			13166 Oct 26 02:09	0° \mathcal{L}	
evening set	13162 Jan 12 05:50	17° \approx 07'29			13166 Dec 03 23:01	0° \mathbb{M}	
	13162 Feb 01 06:45	0° \mathcal{H}			13167 Jan 12 20:39	0° \mathcal{A}	
					13167 Feb 24 20:27	0° \mathcal{Z}	
conjunction	13162 Feb 27 01:20	16° \mathcal{H} 25'53	-0°36'20		13167 Apr 18 12:07	0° \approx	
minimum elong	13162 Feb 27 00:19	16° \mathcal{H} 24'16	0°35'59	retrograde	13167 Jun 04 09:58	12° \approx 10'21	
max. Earth dist.	13162 Mar 03 01:44	18° \mathcal{H} 58'56	2.67937 AU	min. Earth dist.	13167 Jul 08 08:32	4° \approx 34'42	0.59448 AU
	13162 Mar 20 10:38	0° \mathcal{Y}		opposition	13167 Jul 14 04:02	2° \approx 17'55	1°13'17
morning rise	13162 Apr 11 13:32	14° \mathcal{Y} 00'31		greatest brilliancy	13167 Jul 13 21:57	2° \approx 23'52	-1.7m
	13162 May 06 19:19	0° \mathcal{B}			13167 Jul 20 04:20	30° \mathcal{R} \mathcal{Z}	
	13162 Jun 22 23:31	0° \mathbb{I}		desc. node	13167 Aug 12 15:54	24° \mathcal{Z} 08'32	
	13162 Aug 08 21:11	0° \mathcal{E}		direct	13167 Aug 20 16:23	23° \mathcal{Z} 43'42	
	13162 Sep 24 19:21	0° \mathcal{Q}			13167 Sep 24 17:26	0° \approx	
	13162 Nov 11 22:43	0° \mathbb{M}			13167 Nov 30 07:37	0° \mathcal{H}	
asc. node	13163 Jan 01 03:59	27° \mathbb{M} 15'34			13168 Jan 22 05:15	0° \mathcal{Y}	
	13163 Jan 07 13:29	0° \mathcal{L}			13168 Mar 10 20:03	0° \mathcal{B}	
retrograde	13163 Feb 15 10:04	8° \mathcal{L} 51'09			13168 Apr 25 10:11	0° \mathbb{I}	
min. Earth dist.	13163 Mar 15 16:06	4° \mathcal{L} 14'32	0.36443 AU	evening set	13168 May 01 07:00	3° \mathbb{I} 59'41	
opposition	13163 Mar 17 04:15	3° \mathcal{L} 50'37	5°18'31	max. Earth dist.	13168 May 15 22:15	14° \mathbb{I} 05'49	2.50737 AU
greatest brilliancy	13163 Mar 16 18:57	3° \mathcal{L} 56'47	-3.0m		13168 Jun 07 10:05	0° \mathcal{E}	
	13163 Apr 03 00:58	30° \mathcal{R} \mathbb{M}					
direct	13163 Apr 15 06:16	29° \mathbb{M} 00'39		conjunction	13168 Jun 21 06:50	10° \mathcal{E} 01'36	-0°39'55
	13163 Apr 27 13:11	0° \mathcal{L}		minimum elong	13168 Jun 21 08:47	10° \mathcal{E} 05'10	0°40'54
	13163 Jul 06 05:28	0° \mathbb{M}			13168 Jul 18 05:57	0° \mathcal{Q}	
	13163 Aug 24 04:18	0° \mathcal{A}		morning rise	13168 Aug 19 14:46	24° \mathcal{Q} 41'53	
	13163 Oct 10 11:10	0° \mathcal{Z}		asc. node	13168 Aug 22 06:08	26° \mathcal{Q} 44'31	
desc. node	13163 Nov 06 20:08	17° \mathcal{Z} 20'11			13168 Aug 26 10:54	0° \mathbb{M}	
	13163 Nov 26 22:08	0° \approx			13168 Oct 03 17:40	0° \mathcal{L}	
	13164 Jan 13 17:15	0° \mathcal{H}			13168 Nov 10 22:12	0° \mathbb{M}	
evening set	13164 Feb 17 23:41	22° \mathcal{H} 08'50			13168 Dec 19 23:07	0° \mathcal{A}	
	13164 Mar 01 10:30	0° \mathcal{Y}			13169 Jan 29 22:44	0° \mathcal{Z}	
max. Earth dist.	13164 Mar 23 23:46	14° \mathcal{Y} 18'04	2.67512 AU		13169 Mar 15 11:06	0° \approx	
					13169 May 06 20:43	0° \mathcal{H}	
conjunction	13164 Apr 01 21:38	19° \mathcal{Y} 59'08	-1°04'10	desc. node	13169 Jun 29 20:48	18° \mathcal{H} 04'20	
minimum elong	13164 Apr 01 20:44	19° \mathcal{Y} 57'42	1°04'24	retrograde	13169 Jul 09 02:09	18° \mathcal{H} 35'42	
	13164 Apr 17 12:13	0° \mathcal{B}		min. Earth dist.	13169 Aug 16 16:32	9° \mathcal{H} 30'00	0.67065 AU
morning rise	13164 May 15 11:19	18° \mathcal{B} 09'21		opposition	13169 Aug 18 19:33	8° \mathcal{H} 39'17	-1°48'28
	13164 Jun 02 10:57	0° \mathbb{I}		greatest brilliancy	13169 Aug 18 15:15	8° \mathcal{H} 43'33	-1.3m
	13164 Jul 17 00:29	0° \mathcal{E}			13169 Sep 16 09:12	30° \mathcal{R} \approx	
	13164 Aug 29 03:27	0° \mathcal{Q}		direct	13169 Sep 28 02:04	29° \approx 08'15	
	13164 Oct 09 23:08	0° \mathbb{M}			13169 Oct 10 10:05	0° \mathcal{H}	
asc. node	13164 Nov 18 01:08	28° \mathbb{M} 34'45			13169 Dec 28 09:34	0° \mathcal{Y}	
	13164 Nov 19 23:42	0° \mathcal{L}			13170 Feb 18 17:03	0° \mathcal{B}	

	13170 Apr 06 06:48	0°♊			13175 Feb 27 08:40	0°♋		
	13170 May 19 07:07	0°♌			13175 Apr 15 18:32	0°♍		
evening set	13170 Jun 20 11:34	23°♌44'09			13175 Jun 04 02:42	0°♎		
	13170 Jun 28 18:20	0°♏			13175 Jul 26 18:08	0°♐		
asc. node	13170 Jul 09 20:51	8°♏29'20			13175 Sep 30 15:06	0°♑		
max. Earth dist.	13170 Jul 20 07:44	16°♏33'46	2.37376 AU	retrograde	13175 Nov 04 08:26	6°♑12'52		
	13170 Aug 06 12:47	0°♒			13175 Dec 06 12:37	30°♒♊		
				opposition	13175 Dec 09 08:06	29°♊00'54	-4°10'59	
conjunction	13170 Aug 24 18:51	14°♒23'43	0°31'46	greatest brilliancy	13175 Dec 10 17:47	28°♊30'58	-2.1m	
minimum elong	13170 Aug 24 15:44	14°♒17'32	0°31'21	min. Earth dist.	13175 Dec 17 21:37	25°♊59'20	0.50414 AU	
	13170 Sep 13 11:15	0°♈		direct	13176 Jan 16 13:58	20°♊12'10		
	13170 Oct 21 11:09	0°♉			13176 Feb 26 02:27	0°♋		
morning rise	13170 Nov 07 05:14	13°♉02'19		asc. node	13176 Mar 01 10:22	1°♋56'51		
	13170 Nov 29 09:27	0°♊			13176 Apr 18 11:23	0°♌		
	13171 Jan 09 01:50	0°♋			13176 May 30 13:53	0°♍		
	13171 Feb 21 07:35	0°♌			13176 Jul 09 08:35	0°♎		
	13171 Apr 09 05:03	0°♍			13176 Aug 18 02:23	0°♏		
desc. node	13171 May 17 17:44	22°♍03'57			13176 Sep 27 23:24	0°♐		
	13171 Jun 02 05:44	0°♎			13176 Nov 09 13:50	0°♑		
retrograde	13171 Aug 12 04:23	21°♎14'57			13176 Dec 24 00:50	0°♒		
opposition	13171 Sep 21 11:23	11°♎45'32	-3°52'52	evening set	13176 Dec 27 10:47	2°♒15'27		
greatest brilliancy	13171 Sep 21 15:30	11°♎41'28	-1.3m	desc. node	13177 Jan 05 09:14	8°♒08'18		
min. Earth dist.	13171 Sep 23 04:23	11°♎05'09	0.68118 AU		13177 Feb 08 01:42	0°♋		
direct	13171 Nov 01 23:48	1°♎46'24						
	13172 Jan 25 00:26	0°♌		conjunction	13177 Feb 12 23:00	3°♋08'15	-0°21'06	
	13172 Mar 15 06:11	0°♍		minimum elong	13177 Feb 12 22:19	3°♋07'09	0°20'32	
	13172 Apr 28 04:57	0°♎		max. Earth dist.	13177 Feb 22 07:48	9°♋07'59	2.66610 AU	
asc. node	13172 May 26 19:25	20°♎56'57			13177 Mar 27 04:14	0°♍		
	13172 Jun 07 19:08	0°♏		morning rise	13177 Mar 29 07:38	1°♍21'13		
	13172 Jul 16 11:11	0°♐			13177 May 13 20:29	0°♎		
	13172 Aug 23 08:05	0°♑			13177 Jun 30 20:58	0°♏		
evening set	13172 Aug 30 21:37	5°♑59'43			13177 Aug 18 12:28	0°♐		
	13172 Sep 30 09:54	0°♒			13177 Oct 08 04:06	0°♑		
	13172 Nov 08 13:28	0°♊			13177 Dec 08 10:06	0°♒		
				retrograde	13178 Jan 13 04:22	7°♒08'38		
conjunction	13172 Nov 09 08:52	0°♊36'26	1°04'37	asc. node	13178 Jan 17 17:49	7°♒00'30		
minimum elong	13172 Nov 09 10:09	0°♊38'51	1°05'26	opposition	13178 Feb 12 03:24	2°♒06'52	1°54'42	
	13172 Dec 19 11:21	0°♋		greatest brilliancy	13178 Feb 12 09:36	2°♒02'34	-3.0m	
max. Earth dist.	13172 Dec 26 11:17	4°♋58'42	2.47018 AU	min. Earth dist.	13178 Feb 16 10:10	0°♒55'47	0.37598 AU	
morning rise	13173 Jan 09 11:43	14°♋49'11			13178 Feb 19 21:36	30°♒♏		
	13173 Jan 31 14:56	0°♌		direct	13178 Mar 15 06:12	26°♏34'43		
	13173 Mar 18 07:37	0°♍			13178 Apr 06 19:24	0°♐		
desc. node	13173 Apr 03 07:46	10°♍04'52			13178 Jun 05 23:19	0°♑		
	13173 May 06 03:31	0°♎			13178 Jul 21 17:45	0°♒		
	13173 Jun 29 16:38	0°♏			13178 Sep 04 05:27	0°♓		
retrograde	13173 Sep 17 15:02	25°♓07'11			13178 Oct 19 08:49	0°♑		
opposition	13173 Oct 26 03:21	16°♓27'39	-4°58'09	desc. node	13178 Nov 23 08:07	22°♑45'12		
greatest brilliancy	13173 Oct 27 01:58	16°♓05'55	-1.5m		13178 Dec 04 14:29	0°♒		
min. Earth dist.	13173 Oct 31 16:37	14°♓19'42	0.62403 AU		13179 Jan 20 17:02	0°♋		
direct	13173 Dec 06 07:09	6°♓30'26		evening set	13179 Feb 04 03:24	9°♋07'53		
	13174 Feb 15 18:19	0°♌			13179 Mar 09 03:15	0°♍		
	13174 Apr 05 06:03	0°♎		max. Earth dist.	13179 Mar 16 10:46	4°♍38'03	2.68344 AU	
asc. node	13174 Apr 14 02:01	6°♎04'42						
	13174 May 17 03:31	0°♏		conjunction	13179 Mar 20 09:49	7°♍08'44	-0°55'40	
	13174 Jun 25 07:43	0°♐		minimum elong	13179 Mar 20 08:43	7°♍06'59	0°55'40	
	13174 Aug 02 12:59	0°♑			13179 Apr 25 06:07	0°♎		
	13174 Sep 10 00:52	0°♒		morning rise	13179 May 02 13:08	4°♎41'00		
	13174 Oct 19 17:21	0°♓			13179 Jun 10 13:56	0°♏		
evening set	13174 Nov 09 08:55	15°♓06'40			13179 Jul 25 20:36	0°♐		
	13174 Nov 30 05:08	0°♑			13179 Sep 08 00:26	0°♑		
					13179 Oct 21 05:26	0°♒		
conjunction	13175 Jan 04 02:05	24°♑07'37	0°25'33		13179 Dec 03 05:05	0°♓		
minimum elong	13175 Jan 04 03:16	24°♑09'38	0°26'30	asc. node	13179 Dec 05 20:11	1°♓48'47		
	13175 Jan 12 18:44	0°♒			13180 Jan 17 12:54	0°♏		
max. Earth dist.	13175 Jan 29 11:39	11°♒08'37	2.59351 AU	retrograde	13180 Mar 30 10:46	28°♏08'32		
desc. node	13175 Feb 18 17:59	24°♒25'36		min. Earth dist.	13180 Apr 25 11:33	23°♏35'17	0.41195 AU	
morning rise	13175 Feb 22 10:14	26°♒48'42		greatest brilliancy	13180 May 01 14:09	21°♏39'27	-2.7m	

opposition	13180 May 03 06:40	21°♍07'12	6°27'58	conjunction	13185 Jul 27 10:15	16°♏18'19	0°00'32
direct	13180 Jun 03 02:47	15°♍18'45		minimum elong	13185 Jul 27 10:14	16°♏18'17	0°00'14
	13180 Jul 27 06:40	0°♊		behind sun begin	13185 Jul 26 07:21	15°♏26'22	
	13180 Sep 22 03:42	0°♊		behind sun end	13185 Jul 28 13:08	17°♏10'15	
desc. node	13180 Oct 10 14:18	10°♊42'03			13185 Aug 14 00:47	0°♎	
	13180 Nov 12 01:39	0°♋			13185 Sep 21 01:36	0°♎	
	13180 Dec 31 12:03	0°♋		morning rise	13185 Oct 06 04:44	11°♎58'31	
	13181 Feb 17 22:54	0°♌			13185 Oct 29 02:11	0°♍	
evening set	13181 Mar 10 12:23	12°♌57'20			13185 Dec 07 00:03	0°♊	
	13181 Apr 06 03:49	0°♌			13186 Jan 16 16:44	0°♊	
max. Earth dist.	13181 Apr 07 06:45	0°♌43'30	2.64579 AU		13186 Mar 01 04:29	0°♋	
					13186 Apr 18 05:03	0°♋	
conjunction	13181 Apr 23 18:25	11°♌26'57	-1°10'36	desc. node	13186 Jun 03 10:15	24°♋06'02	
minimum elong	13181 Apr 23 18:13	11°♌26'38	1°11'11		13186 Jun 17 19:04	0°♌	
	13181 May 21 18:28	0°♍		retrograde	13186 Jul 29 19:29	8°♌51'19	
morning rise	13181 Jun 08 03:27	11°♍44'33			13186 Sep 06 06:11	30°♌♋	
	13181 Jul 04 14:42	0°♍		opposition	13186 Sep 08 09:59	29°♋08'48	-3°11'05
	13181 Aug 15 17:06	0°♏		greatest brilliancy	13186 Sep 08 09:07	29°♋09'41	-1.3m
	13181 Sep 25 07:25	0°♎		min. Earth dist.	13186 Sep 08 14:34	29°♋04'17	0.68503 AU
asc. node	13181 Oct 22 13:13	20°♎35'46		direct	13186 Oct 19 14:46	19°♋17'51	
	13181 Nov 03 21:25	0°♎			13186 Dec 06 04:33	0°♌	
	13181 Dec 13 08:17	0°♍			13187 Feb 04 06:35	0°♌	
	13182 Jan 23 04:12	0°♊			13187 Mar 24 12:13	0°♍	
	13182 Mar 09 19:23	0°♊			13187 May 06 22:59	0°♍	
retrograde	13182 May 19 19:53	25°♊35'48		asc. node	13187 Jun 13 11:00	27°♍43'41	
min. Earth dist.	13182 Jun 20 12:35	18°♊46'21	0.54822 AU		13187 Jun 16 10:46	0°♏	
opposition	13182 Jun 27 15:17	16°♊02'45	2°41'25		13187 Jul 25 03:04	0°♎	
greatest brilliancy	13182 Jun 26 23:11	16°♊18'12	-1.9m	evening set	13187 Aug 01 01:37	5°♎28'24	
direct	13182 Aug 02 14:38	8°♊02'42			13187 Aug 31 23:50	0°♎	
desc. node	13182 Aug 29 01:03	11°♊52'49			13187 Oct 08 23:55	0°♍	
	13182 Oct 14 06:50	0°♋					
	13182 Dec 09 21:03	0°♋		conjunction	13187 Oct 12 17:29	2°♍54'47	1°04'26
	13183 Jan 29 20:12	0°♌		minimum elong	13187 Oct 12 15:34	2°♍51'03	1°04'54
	13183 Mar 18 20:29	0°♌			13187 Nov 17 00:13	0°♊	
evening set	13183 Apr 16 09:01	18°♌37'11		max. Earth dist.	13187 Dec 05 05:08	13°♊35'19	2.41294 AU
	13183 May 03 08:18	0°♍		morning rise	13187 Dec 19 17:34	24°♊12'30	
max. Earth dist.	13183 May 03 21:56	0°♍23'05	2.55533 AU		13187 Dec 27 18:19	0°♊	
					13188 Feb 08 20:13	0°♋	
conjunction	13183 Jun 03 07:56	21°♍23'01	-0°56'23		13188 Mar 25 18:53	0°♋	
minimum elong	13183 Jun 03 09:32	21°♍25'49	0°57'22	desc. node	13188 Apr 20 01:51	15°♋33'59	
	13183 Jun 15 11:57	0°♍			13188 May 14 19:12	0°♌	
morning rise	13183 Jul 26 18:02	0°♏07'17			13188 Jul 14 03:14	0°♌	
	13183 Jul 26 14:08	0°♏		retrograde	13188 Sep 02 07:16	11°♌40'19	
	13183 Sep 04 01:56	0°♎		opposition	13188 Oct 11 16:31	2°♌37'57	-4°41'21
asc. node	13183 Sep 09 01:27	3°♎50'55		greatest brilliancy	13188 Oct 12 07:22	2°♌23'31	-1.4m
	13183 Oct 12 14:30	0°♎		min. Earth dist.	13188 Oct 15 17:56	1°♌03'10	0.65445 AU
	13183 Nov 19 23:30	0°♍			13188 Oct 18 11:46	30°♌♌	
	13183 Dec 29 05:02	0°♊		direct	13188 Nov 22 04:56	22°♌35'12	
	13184 Feb 08 14:18	0°♊			13188 Dec 29 16:06	0°♌	
	13184 Mar 25 11:21	0°♋			13189 Feb 27 16:49	0°♍	
	13184 May 25 22:48	0°♋			13189 Apr 14 12:20	0°♍	
retrograde	13184 Jun 25 16:13	5°♋22'59		asc. node	13189 Apr 30 14:10	11°♍26'27	
desc. node	13184 Jul 16 10:04	2°♋27'41			13189 May 25 16:00	0°♏	
	13184 Jul 24 04:31	30°♌♋			13189 Jul 03 13:04	0°♎	
min. Earth dist.	13184 Aug 01 14:21	26°♋49'00	0.64825 AU		13189 Aug 10 13:30	0°♎	
opposition	13184 Aug 05 04:58	25°♋22'59	-0°45'31		13189 Sep 17 20:00	0°♍	
greatest brilliancy	13184 Aug 05 02:08	25°♋25'48	-1.5m	evening set	13189 Oct 15 19:08	21°♍24'15	
direct	13184 Sep 13 13:54	16°♋10'17			13189 Oct 27 06:04	0°♊	
	13184 Nov 08 07:06	0°♋			13189 Dec 07 10:57	0°♊	
	13185 Jan 07 03:25	0°♌		conjunction	13189 Dec 15 21:37	5°♊58'02	0°43'52
	13185 Feb 26 12:18	0°♌		minimum elong	13189 Dec 15 23:38	6°♊01'34	0°44'52
	13185 Apr 13 13:55	0°♍		max. Earth dist.	13190 Jan 18 04:26	28°♊54'57	2.55068 AU
	13185 May 26 13:04	0°♍			13190 Jan 19 18:56	0°♋	
evening set	13185 May 29 19:48	2°♍22'06					
max. Earth dist.	13185 Jun 13 21:42	13°♍23'07	2.42364 AU	morning rise	13190 Feb 06 18:37	12°♋01'34	
	13185 Jul 06 02:56	0°♏			13190 Mar 06 07:33	0°♋	
asc. node	13185 Jul 26 15:48	15°♏42'42		desc. node	13190 Mar 07 13:19	0°♋47'52	

	13190 Apr 23 01:42	0°♄			13195 Jun 21 09:47	0°♍		
	13190 Jun 12 16:22	0°♂			13195 Aug 15 22:03	0°♁		
	13190 Aug 08 21:37	0°♂			13195 Oct 04 04:24	0°♂		
retrograde	13190 Oct 14 20:09	18°♂56'02		desc. node	13195 Oct 28 01:17	14°♂47'09		
opposition	13190 Nov 20 10:35	11°♂03'16	-4°50'50		13195 Nov 21 13:31	0°♂		
greatest brilliancy	13190 Nov 21 19:19	10°♂32'53	-1.8m		13196 Jan 08 20:00	0°♂		
min. Earth dist.	13190 Nov 28 01:50	8°♂13'40	0.55750 AU	evening set	13196 Feb 25 19:41	0°♄01'36		
direct	13190 Dec 30 06:10	1°♂34'36			13196 Feb 25 18:40	0°♄		
	13191 Mar 17 10:34	0°♂		max. Earth dist.	13196 Mar 29 03:08	20°♄31'36	2.66702 AU	
asc. node	13191 Mar 18 23:54	0°♂56'25						
	13191 May 01 11:04	0°♂		conjunction	13196 Apr 09 17:24	27°♄57'48	-1°07'40	
	13191 Jun 10 18:33	0°♂		minimum elong	13196 Apr 09 16:43	27°♄56'42	1°08'02	
	13191 Jul 19 15:43	0°♂			13196 Apr 12 21:17	0°♂		
	13191 Aug 27 17:15	0°♍		morning rise	13196 May 23 18:02	26°♂42'16		
	13191 Oct 06 23:44	0°♁			13196 May 28 17:06	0°♂		
	13191 Nov 18 01:07	0°♂			13196 Jul 12 00:20	0°♂		
evening set	13191 Dec 11 03:59	15°♂55'02			13196 Aug 23 17:44	0°♂		
	13192 Jan 01 01:42	0°♂			13196 Oct 04 01:23	0°♂		
desc. node	13192 Jan 23 01:29	14°♂32'21		asc. node	13196 Nov 08 08:31	26°♂12'28		
					13196 Nov 13 10:25	0°♂		
conjunction	13192 Jan 30 02:16	19°♂08'05	-0°03'59		13196 Dec 23 21:40	0°♍		
minimum elong	13192 Jan 30 02:07	19°♂07'51	0°03'15		13197 Feb 04 18:06	0°♁		
behind sun begin	13192 Jan 29 06:37	18°♂36'05			13197 Mar 31 21:56	0°♂		
behind sun end	13192 Jan 30 21:37	19°♂39'36		retrograde	13197 May 02 10:55	6°♂26'48		
max. Earth dist.	13192 Feb 14 02:45	28°♂52'42	2.64424 AU	min. Earth dist.	13197 May 31 17:14	0°♂30'25	0.49579 AU	
	13192 Feb 15 20:29	0°♂			13197 Jun 02 03:07	30°♁♁		
morning rise	13192 Mar 15 20:17	18°♂32'18		opposition	13197 Jun 08 20:09	27°♁31'53	4°17'32	
	13192 Apr 02 23:37	0°♄		greatest brilliancy	13197 Jun 07 15:38	27°♁58'09	-2.2m	
	13192 May 21 02:45	0°♂		direct	13197 Jul 13 00:44	20°♁15'20		
	13192 Jul 09 08:13	0°♂			13197 Aug 25 20:22	0°♂		
	13192 Aug 29 21:16	0°♂		desc. node	13197 Sep 14 11:29	8°♂21'39		
	13192 Oct 29 17:37	0°♂			13197 Oct 26 20:48	0°♂		
retrograde	13192 Dec 12 21:13	9°♂52'42			13197 Dec 18 10:34	0°♂		
opposition	13193 Jan 13 16:39	4°♂02'21	-1°23'35		13198 Feb 06 03:29	0°♄		
greatest brilliancy	13193 Jan 14 05:01	3°♂52'46	-2.7m		13198 Mar 25 17:50	0°♂		
min. Earth dist.	13193 Jan 21 14:22	1°♂35'57	0.41788 AU	evening set	13198 Apr 01 12:52	4°♂23'32		
	13193 Jan 27 05:36	30°♁♂		max. Earth dist.	13198 Apr 22 20:33	18°♂22'21	2.59668 AU	
asc. node	13193 Feb 03 08:19	28°♂22'29			13198 May 10 05:34	0°♂		
direct	13193 Feb 17 01:07	27°♂03'27						
	13193 Mar 09 19:00	0°♂		conjunction	13198 May 17 11:17	4°♂54'23	-1°06'14	
	13193 May 08 17:23	0°♂		minimum elong	13198 May 17 12:11	4°♂55'54	1°07'06	
	13193 Jun 21 12:05	0°♂			13198 Jun 22 14:44	0°♂		
	13193 Aug 02 09:45	0°♍		morning rise	13198 Jul 05 17:40	9°♂21'37		
	13193 Sep 13 20:10	0°♁			13198 Aug 03 01:08	0°♂		
	13193 Oct 27 15:44	0°♂			13198 Sep 11 21:38	0°♂		
desc. node	13193 Dec 09 20:43	28°♂35'58		asc. node	13198 Sep 25 22:43	10°♂47'11		
	13193 Dec 12 00:18	0°♂			13198 Oct 20 17:56	0°♂		
evening set	13194 Jan 20 18:59	25°♂39'13			13198 Nov 28 09:28	0°♍		
	13194 Jan 27 14:16	0°♂			13199 Jan 06 23:00	0°♁		
					13199 Feb 18 02:31	0°♂		
conjunction	13194 Mar 06 21:48	24°♂20'55	-0°44'15		13199 Apr 07 20:57	0°♂		
minimum elong	13194 Mar 06 20:41	24°♂19'09	0°44'02	retrograde	13199 Jun 12 17:20	21°♂16'45		
max. Earth dist.	13194 Mar 08 01:43	25°♂05'10	2.68320 AU	min. Earth dist.	13199 Jul 17 18:52	13°♂19'00	0.61611 AU	
	13194 Mar 15 19:46	0°♄		opposition	13199 Jul 22 20:17	11°♂19'07	0°26'43	
morning rise	13194 Apr 19 03:23	21°♄46'18		greatest brilliancy	13199 Jul 22 18:22	11°♂21'00	-1.6m	
	13194 May 02 01:47	0°♂		desc. node	13199 Aug 02 21:08	7°♂13'31		
	13194 Jun 17 21:38	0°♂		direct	13199 Aug 30 02:14	2°♂29'39		
	13194 Aug 03 03:02	0°♂			13199 Nov 23 01:30	0°♂		
	13194 Sep 17 19:23	0°♂			13200 Jan 16 18:13	0°♄		
	13194 Nov 02 11:07	0°♂			13200 Mar 05 22:16	0°♂		
	13194 Dec 20 07:13	0°♂			13200 Apr 20 16:22	0°♂		
asc. node	13194 Dec 22 11:35	1°♂16'26		evening set	13200 May 11 00:57	13°♂59'04		
retrograde	13195 Mar 04 16:41	27°♂44'33		max. Earth dist.	13200 May 24 19:35	23°♂40'21	2.47808 AU	
min. Earth dist.	13195 Mar 31 03:33	23°♂26'50	0.37364 AU		13200 Jun 02 16:20	0°♂		
opposition	13195 Apr 04 15:02	22°♂11'55	6°24'24					
greatest brilliancy	13195 Apr 03 13:58	22°♂29'28	-2.9m	conjunction	13200 Jul 03 07:57	22°♂26'00	-0°27'07	
direct	13195 May 03 23:06	17°♂13'05		minimum elong	13200 Jul 03 09:41	22°♂29'13	0°28'04	

	13200 Jul 13 10:14	0°♈				13205 Oct 21 08:11	30°♏	
asc. node	13200 Aug 12 10:17	22°♏55'53		opposition		13205 Nov 03 21:11	25°♏17'56	-5°01'04
	13200 Aug 21 12:47	0°♐		greatest brilliancy		13205 Nov 04 23:56	24°♏52'28	-1.6m
morning rise	13200 Sep 04 17:25	11°♐05'55		min. Earth dist.		13205 Nov 10 05:04	22°♏53'32	0.60289 AU
	13200 Sep 28 17:25	0°♑		direct		13205 Dec 14 16:12	15°♏27'38	
greatest brilliancy	13200 Oct 10 18:20	9°♑30'11	1.2m			13206 Feb 05 20:08	0°♒	
	13200 Nov 05 20:09	0°♒				13206 Mar 29 16:40	0°♓	
	13200 Dec 14 19:09	0°♈		asc. node		13206 Apr 04 11:22	3°♓51'01	
	13201 Jan 24 14:36	0°♉				13206 May 11 09:08	0°♏	
	13201 Mar 09 13:54	0°♐				13206 Jun 19 20:57	0°♐	
desc. node	13201 Apr 28 16:04	0°♈				13206 Jul 28 06:46	0°♑	
retrograde	13201 Jun 20 01:12	22°♈26'02				13206 Sep 04 22:18	0°♒	
min. Earth dist.	13201 Jul 16 15:03	26°♈22'09				13206 Oct 14 18:27	0°♈	
opposition	13201 Aug 25 00:56	17°♈01'03	0.67865 AU	evening set		13206 Nov 21 15:05	27°♈20'16	
greatest brilliancy	13201 Aug 26 08:35	16°♈29'36	-2°21'22			13206 Nov 25 09:42	0°♉	
direct	13201 Aug 26 04:45	16°♈33'26	-1.3m			13207 Jan 08 01:43	0°♐	
	13201 Oct 06 00:35	6°♈50'31						
	13201 Dec 20 22:39	0°♑		conjunction		13207 Jan 13 23:17	3°♐56'57	0°14'35
	13202 Feb 13 04:35	0°♒		minimum elong		13207 Jan 13 23:57	3°♐58'04	0°15'28
	13202 Apr 01 06:54	0°♒		behind sun begin		13207 Jan 13 19:18	3°♐50'18	
	13202 May 14 11:04	0°♓		behind sun end		13207 Jan 14 04:36	4°♐05'50	
	13202 Jun 23 22:33	0°♏		max. Earth dist.		13207 Feb 04 11:22	18°♐10'10	2.61366 AU
asc. node	13202 Jun 30 04:11	4°♏45'25		desc. node		13207 Feb 08 18:53	20°♐59'20	
evening set	13202 Jul 04 06:58	7°♏54'48				13207 Feb 22 16:03	0°♈	
	13202 Aug 01 16:09	0°♐		morning rise		13207 Mar 02 19:30	5°♈14'32	
	13202 Sep 08 13:41	0°♑				13207 Apr 10 21:59	0°♑	
						13207 May 29 16:58	0°♒	
conjunction	13202 Sep 11 07:26	2°♑10'31	0°47'36			13207 Jul 19 18:19	0°♒	
minimum elong	13202 Sep 11 03:22	2°♑02'27	0°47'30			13207 Sep 15 04:22	0°♓	
max. Earth dist.	13202 Oct 10 10:57	25°♑13'30	2.36449 AU	retrograde		13207 Nov 17 07:30	17°♓37'40	
	13202 Oct 16 12:58	0°♒		opposition		13207 Dec 21 07:17	10°♓52'25	-3°28'05
morning rise	13202 Nov 23 21:46	29°♒34'48		greatest brilliancy		13207 Dec 22 13:13	10°♓26'48	-2.3m
	13202 Nov 24 11:06	0°♈		min. Earth dist.		13207 Dec 30 02:19	7°♓53'14	0.47284 AU
	13203 Jan 04 02:58	0°♉		direct		13208 Jan 27 09:12	2°♓35'51	
	13203 Feb 16 05:28	0°♐		asc. node		13208 Feb 20 20:26	6°♓31'40	
	13203 Apr 03 15:12	0°♈				13208 Apr 09 02:55	0°♏	
desc. node	13203 May 07 19:40	20°♈16'07				13208 May 23 09:20	0°♐	
	13203 May 25 15:06	0°♑				13208 Jul 03 00:46	0°♑	
retrograde	13203 Aug 20 00:51	28°♑54'09				13208 Aug 12 07:18	0°♒	
opposition	13203 Sep 29 01:17	19°♑33'19	-4°13'26			13208 Sep 22 14:08	0°♈	
greatest brilliancy	13203 Sep 29 08:53	19°♑25'52	-1.3m			13208 Nov 04 12:41	0°♉	
min. Earth dist.	13203 Oct 01 14:00	18°♑33'43	0.67467 AU			13208 Dec 19 05:41	0°♐	
direct	13203 Nov 09 15:18	9°♑31'38		desc. node		13208 Dec 26 11:53	4°♐46'12	
	13204 Jan 17 01:20	0°♒		evening set		13209 Jan 05 14:15	11°♐22'14	
	13204 Mar 09 11:12	0°♒				13209 Feb 03 10:06	0°♈	
	13204 Apr 22 23:35	0°♓						
asc. node	13204 May 17 05:02	17°♓35'01		conjunction		13209 Feb 21 02:10	11°♈17'58	-0°30'17
	13204 Jun 02 18:13	0°♏		minimum elong		13209 Feb 21 01:15	11°♈16'31	0°29'51
	13204 Jul 11 11:55	0°♐		max. Earth dist.		13209 Feb 27 10:33	15°♈20'38	2.67449 AU
greatest brilliancy	13204 Jul 31 01:34	15°♐27'36	1.2m			13209 Mar 22 12:48	0°♑	
	13204 Aug 18 09:42	0°♑		morning rise		13209 Apr 05 21:56	9°♑05'56	
evening set	13204 Sep 17 04:35	23°♑29'56				13209 May 09 00:18	0°♒	
	13204 Sep 25 12:18	0°♒				13209 Jun 25 12:48	0°♒	
	13204 Nov 03 17:01	0°♈				13209 Aug 12 02:56	0°♓	
						13209 Sep 29 08:36	0°♏	
conjunction	13204 Nov 23 15:15	14°♈46'48	0°59'03			13209 Nov 19 17:17	0°♐	
minimum elong	13204 Nov 23 17:20	14°♈50'37	0°59'59	asc. node		13210 Jan 08 03:12	21°♐32'00	
	13204 Dec 14 16:06	0°♉		retrograde		13210 Jan 31 21:28	24°♐59'36	
max. Earth dist.	13205 Jan 04 21:45	14°♉57'56	2.50035 AU	opposition		13210 Mar 02 10:01	20°♐07'33	3°58'29
morning rise	13205 Jan 20 10:02	25°♉39'03		greatest brilliancy		13210 Mar 02 11:34	20°♐06'31	-3.0m
	13205 Jan 26 19:41	0°♐		min. Earth dist.		13210 Mar 03 15:04	19°♐48'20	0.36518 AU
	13205 Mar 13 09:09	0°♈		direct		13210 Apr 01 01:01	15°♐07'46	
desc. node	13205 Mar 24 07:14	6°♈56'56				13210 May 22 09:59	0°♑	
	13205 Apr 30 16:31	0°♑				13210 Jul 13 00:49	0°♒	
	13205 Jun 22 07:30	0°♒				13210 Aug 28 11:42	0°♈	
	13205 Aug 31 11:05	0°♒				13210 Oct 13 15:47	0°♉	
retrograde	13205 Sep 26 23:31	3°♒42'41		desc. node		13210 Nov 13 11:57	19°♉48'37	

	13210 Nov 29 11:44	0°♊	asc. node	13215 Aug 30 07:51	0°♍08'29	
	13211 Jan 15 22:34	0°♋		13215 Aug 30 03:28	0°♍	
evening set	13211 Feb 12 02:20	17°♋06'28		13215 Oct 07 12:57	0°♎	
	13211 Mar 04 12:31	0°♌		13215 Nov 14 18:51	0°♎	
max. Earth dist.	13211 Mar 21 09:43	10°♌42'04 2.67980 AU		13215 Dec 23 20:25	0°♏	
				13216 Feb 02 21:52	0°♏	
conjunction	13211 Mar 28 02:43	14°♌57'59 -1°01'03		13216 Mar 18 18:39	0°♊	
minimum elong	13211 Mar 28 01:43	14°♌56'24 1°01'12		13216 May 12 08:15	0°♋	
	13211 Apr 20 14:50	0°♌	retrograde	13216 Jul 03 09:27	13°♋32'41	
morning rise	13211 May 10 10:07	12°♌47'20	desc. node	13216 Jul 06 13:38	13°♋28'42	
	13211 Jun 05 17:55	0°♍	min. Earth dist.	13216 Aug 10 06:14	4°♋40'55 0.66197 AU	
	13211 Jul 20 15:14	0°♎	opposition	13216 Aug 13 01:42	3°♋33'51 -1°23'36	
	13211 Sep 02 04:56	0°♏	greatest brilliancy	13216 Aug 12 21:30	3°♋38'01 -1.4m	
	13211 Oct 14 14:12	0°♐		13216 Aug 22 09:16	30°♋	
	13211 Nov 25 07:56	0°♑	direct	13216 Sep 21 23:43	24°♋10'33	
asc. node	13211 Nov 26 01:56	0°♑32'20		13216 Oct 25 23:07	0°♋	
	13212 Jan 06 23:25	0°♒		13216 Dec 31 19:24	0°♌	
	13212 Feb 25 07:26	0°♏		13217 Feb 21 07:05	0°♌	
retrograde	13212 Apr 12 09:42	13°♏32'43		13217 Apr 08 17:00	0°♍	
min. Earth dist.	13212 May 09 07:19	8°♏32'46 0.44067 AU		13217 May 21 18:19	0°♎	
greatest brilliancy	13212 May 16 01:16	6°♏16'37 -2.5m	evening set	13217 Jun 10 14:55	14°♎29'37	
opposition	13212 May 17 16:14	5°♏43'33 5°50'02	max. Earth dist.	13217 Jun 30 07:29	29°♎13'56 2.39451 AU	
	13212 Jun 09 00:06	30°♒		13217 Jul 01 07:48	0°♏	
direct	13212 Jun 18 19:11	29°♒21'44	asc. node	13217 Jul 16 21:41	11°♏54'14	
	13212 Jun 28 19:36	0°♏		13217 Aug 09 04:24	0°♐	
	13212 Sep 13 19:07	0°♑				
desc. node	13212 Sep 30 20:34	9°♑17'30	conjunction	13217 Aug 11 19:48	2°♐04'16 0°18'20	
	13212 Nov 06 01:05	0°♒	minimum elong	13217 Aug 11 18:03	2°♐00'51 0°17'44	
	13212 Dec 26 08:51	0°♋		13217 Sep 16 04:09	0°♑	
	13213 Feb 13 05:07	0°♌	morning rise	13217 Oct 24 09:33	0°♒11'02	
evening set	13213 Mar 18 08:57	20°♌54'17		13217 Oct 24 03:56	0°♒	
	13213 Apr 01 13:10	0°♌		13217 Dec 02 00:58	0°♏	
max. Earth dist.	13213 Apr 12 17:48	7°♌15'19 2.63055 AU		13218 Jan 11 15:55	0°♑	
				13218 Feb 23 21:40	0°♒	
conjunction	13213 May 02 01:17	19°♌56'33 -1°10'27		13218 Apr 12 02:18	0°♋	
minimum elong	13213 May 02 01:28	19°♌56'51 1°11'09	desc. node	13218 May 24 11:51	23°♋34'10	
	13213 May 17 02:58	0°♍		13218 Jun 06 21:10	0°♌	
morning rise	13213 Jun 17 12:49	21°♍26'31	retrograde	13218 Aug 06 10:25	16°♌27'58	
	13213 Jun 29 19:16	0°♎	opposition	13218 Sep 15 21:05	6°♌52'08 -3°36'41	
	13213 Aug 10 15:42	0°♏	greatest brilliancy	13218 Sep 15 22:43	6°♌50'31 -1.3m	
	13213 Sep 19 22:56	0°♐	min. Earth dist.	13218 Sep 16 21:18	6°♌28'13 0.68422 AU	
asc. node	13213 Oct 12 18:47	17°♐22'37		13218 Oct 05 07:30	30°♌	
	13213 Oct 29 05:30	0°♑	direct	13218 Oct 27 06:47	26°♋56'17	
	13213 Dec 07 07:20	0°♒		13218 Nov 20 01:18	0°♌	
	13214 Jan 16 11:50	0°♏		13219 Jan 28 17:33	0°♌	
	13214 Mar 01 05:28	0°♑		13219 Mar 19 02:56	0°♍	
	13214 Apr 28 04:36	0°♒		13219 May 01 21:57	0°♎	
retrograde	13214 May 28 20:48	5°♒46'49	asc. node	13219 Jun 03 18:55	24°♎09'35	
	13214 Jun 26 21:11	30°♒		13219 Jun 11 12:07	0°♏	
min. Earth dist.	13214 Jun 30 20:23	28°♒30'55 0.57491 AU		13219 Jul 20 04:48	0°♐	
opposition	13214 Jul 07 06:26	26°♒01'02 1°49'14	evening set	13219 Aug 18 04:16	22°♐56'19	
greatest brilliancy	13214 Jul 06 20:29	26°♒10'43 -1.8m		13219 Aug 27 01:44	0°♑	
direct	13214 Aug 13 03:01	17°♒41'09		13219 Oct 04 02:15	0°♒	
desc. node	13214 Aug 19 07:30	17°♒55'03				
	13214 Oct 03 12:56	0°♒	conjunction	13219 Oct 29 08:11	19°♒31'29 1°06'22	
	13214 Dec 03 15:40	0°♋	minimum elong	13219 Oct 29 08:21	19°♒31'48 1°07'05	
	13215 Jan 24 16:38	0°♌		13219 Nov 12 03:19	0°♏	
	13215 Mar 14 01:59	0°♌	max. Earth dist.	13219 Dec 19 05:13	27°♏20'04 2.44472 AU	
evening set	13215 Apr 25 05:37	27°♌40'13		13219 Dec 22 22:14	0°♑	
	13215 Apr 28 16:22	0°♍	morning rise	13220 Jan 01 11:08	6°♑47'46	
max. Earth dist.	13215 May 11 02:56	8°♍29'21 2.52970 AU		13220 Feb 03 23:16	0°♒	
	13215 Jun 10 19:14	0°♎		13220 Mar 20 16:26	0°♋	
			desc. node	13220 Apr 10 03:03	12°♋47'02	
conjunction	13215 Jun 13 17:20	2°♎05'27 -0°47'49		13220 May 08 20:38	0°♌	
minimum elong	13215 Jun 13 19:12	2°♎08'48 0°48'50		13220 Jul 04 02:04	0°♌	
	13215 Jul 21 18:54	0°♏	retrograde	13220 Sep 10 21:32	19°♌45'47	
morning rise	13215 Aug 09 04:30	13°♏53'54	opposition	13220 Oct 19 19:28	10°♌55'16 -4°52'32	

greatest brilliancy	13220 Oct 20 14:34	10°♄36'47	-1.4m	evening set	13226 Jan 29 01:02	3°♄54'16	
min. Earth dist.	13220 Oct 24 16:21	9°♄02'15	0.63898 AU		13226 Mar 11 05:19	0°♄	
direct	13220 Nov 30 03:46	0°♄54'39		max. Earth dist.	13226 Mar 13 00:27	1°♄08'18	2.68441 AU
	13221 Feb 20 10:44	0°♄					
	13221 Apr 08 16:39	0°♄		conjunction	13226 Mar 14 14:59	2°♄09'21	-0°51'16
asc. node	13221 Apr 21 00:30	8°♄36'38		minimum elong	13226 Mar 14 13:51	2°♄07'34	0°51'12
	13221 May 20 06:58	0°♄		morning rise	13226 Apr 26 17:44	29°♄34'42	
	13221 Jun 28 08:16	0°♄			13226 Apr 27 09:34	0°♄	
	13221 Aug 05 11:12	0°♄			13226 Jun 12 22:56	0°♄	
	13221 Sep 12 19:53	0°♄			13226 Jul 28 15:24	0°♄	
	13221 Oct 22 08:14	0°♄			13226 Sep 11 10:13	0°♄	
evening set	13221 Oct 30 03:06	5°♄45'54			13226 Oct 25 13:00	0°♄	
	13221 Dec 02 15:37	0°♄			13226 Dec 09 00:38	0°♄	
				asc. node	13226 Dec 12 20:30	2°♄30'53	
conjunction	13221 Dec 27 02:10	17°♄04'34	0°33'27		13227 Jan 27 12:30	0°♄	
minimum elong	13221 Dec 27 03:45	17°♄07'17	0°34'27	retrograde	13227 Mar 20 09:49	15°♄51'02	
	13222 Jan 15 01:10	0°♄		min. Earth dist.	13227 Apr 15 04:27	11°♄31'56	0.39195 AU
max. Earth dist.	13222 Jan 24 23:15	6°♄39'25	2.57533 AU	greatest brilliancy	13227 Apr 20 09:07	9°♄59'01	-2.8m
morning rise	13222 Feb 15 20:44	21°♄07'01		opposition	13227 Apr 21 21:53	9°♄31'26	6°41'54
desc. node	13222 Feb 25 13:36	27°♄25'35		direct	13227 May 21 21:13	4°♄08'27	
	13222 Mar 01 13:10	0°♄			13227 Aug 05 18:56	0°♄	
	13222 Apr 18 00:59	0°♄			13227 Sep 27 08:22	0°♄	
	13222 Jun 06 19:25	0°♄		desc. node	13227 Oct 18 06:12	12°♄32'49	
	13222 Jul 30 22:01	0°♄			13227 Nov 15 23:49	0°♄	
retrograde	13222 Oct 26 01:13	28°♄57'10			13228 Jan 03 21:00	0°♄	
opposition	13222 Nov 30 19:37	21°♄25'37	-4°32'01		13228 Feb 21 02:27	0°♄	
greatest brilliancy	13222 Dec 02 05:34	20°♄54'46	-2.0m	evening set	13228 Mar 04 15:01	7°♄53'16	
min. Earth dist.	13222 Dec 09 00:56	18°♄27'14	0.52878 AU	max. Earth dist.	13228 Apr 03 07:43	26°♄48'20	2.65637 AU
direct	13223 Jan 08 20:06	12°♄16'33			13228 Apr 08 06:46	0°♄	
	13223 Mar 07 05:48	0°♄					
asc. node	13223 Mar 09 08:49	1°♄08'13		conjunction	13228 Apr 17 15:46	6°♄03'55	-1°09'53
	13223 Apr 24 09:11	0°♄		minimum elong	13228 Apr 17 15:22	6°♄03'15	1°10'24
	13223 Jun 04 13:59	0°♄			13228 May 24 00:31	0°♄	
	13223 Jul 13 21:57	0°♄		morning rise	13228 Jun 01 08:04	5°♄34'22	
	13223 Aug 22 07:11	0°♄			13228 Jul 07 02:19	0°♄	
	13223 Oct 01 20:02	0°♄			13228 Aug 18 12:03	0°♄	
	13223 Nov 13 03:05	0°♄			13228 Sep 28 10:08	0°♄	
evening set	13223 Dec 21 04:25	25°♄54'09		asc. node	13228 Oct 29 15:04	23°♄25'08	
	13223 Dec 27 07:52	0°♄			13228 Nov 07 08:05	0°♄	
desc. node	13224 Jan 13 03:22	11°♄06'22			13228 Dec 17 03:33	0°♄	
					13229 Jan 27 14:07	0°♄	
conjunction	13224 Feb 07 16:05	27°♄43'09	-0°14'10		13229 Mar 16 09:03	0°♄	
minimum elong	13224 Feb 07 15:36	27°♄42'22	0°13'32	retrograde	13229 May 12 13:33	18°♄09'06	
behind sun begin	13224 Feb 07 05:19	27°♄25'46		min. Earth dist.	13229 Jun 12 04:54	11°♄42'32	0.52527 AU
behind sun end	13224 Feb 08 01:54	27°♄58'58		opposition	13229 Jun 19 19:36	8°♄50'12	3°21'55
	13224 Feb 11 04:58	0°♄		greatest brilliancy	13229 Jun 18 22:12	9°♄10'26	-2.0m
max. Earth dist.	13224 Feb 19 11:14	5°♄18'42	2.65732 AU	direct	13229 Jul 24 23:59	1°♄08'30	
morning rise	13224 Mar 23 13:51	26°♄23'30		desc. node	13229 Sep 04 16:38	9°♄55'39	
	13224 Mar 29 06:55	0°♄			13229 Oct 19 03:40	0°♄	
	13224 May 16 03:09	0°♄			13229 Dec 12 18:43	0°♄	
	13224 Jul 03 14:55	0°♄			13230 Feb 01 04:38	0°♄	
	13224 Aug 22 07:31	0°♄			13230 Mar 21 01:19	0°♄	
	13224 Oct 14 19:01	0°♄		evening set	13230 Apr 09 21:05	12°♄52'22	
retrograde	13224 Dec 29 23:41	25°♄03'16		max. Earth dist.	13230 Apr 29 01:59	25°♄36'56	2.57474 AU
asc. node	13225 Jan 24 16:36	21°♄06'49			13230 May 05 14:16	0°♄	
opposition	13225 Jan 29 15:07	19°♄42'42	0°21'33				
greatest brilliancy	13225 Jan 29 17:05	19°♄41'17	-2.9m	conjunction	13230 May 26 19:36	14°♄31'04	-1°01'20
min. Earth dist.	13225 Feb 04 21:02	17°♄53'48	0.39182 AU	minimum elong	13230 May 26 20:54	14°♄33'20	1°02'16
direct	13225 Mar 03 04:35	13°♄33'29			13230 Jun 17 21:20	0°♄	
	13225 Apr 25 05:34	0°♄		morning rise	13230 Jul 17 04:18	21°♄08'57	
	13225 Jun 12 19:58	0°♄			13230 Jul 29 04:05	0°♄	
	13225 Jul 26 10:30	0°♄			13230 Sep 06 20:12	0°♄	
	13225 Sep 07 19:56	0°♄		asc. node	13230 Sep 16 03:32	7°♄10'05	
	13225 Oct 22 06:50	0°♄			13230 Oct 15 12:22	0°♄	
desc. node	13225 Nov 30 01:00	25°♄27'05			13230 Nov 22 23:49	0°♄	
	13225 Dec 07 01:28	0°♄			13231 Jan 01 07:22	0°♄	
	13226 Jan 22 21:35	0°♄			13231 Feb 11 21:28	0°♄	

	13231 Mar 30 13:32	0°♊			13236 Apr 17 13:10	0°♎		
retrograde	13231 Jun 20 18:24	29°♊57'26		asc. node	13236 May 07 12:53	14°♎20'27		
desc. node	13231 Jul 24 02:26	22°♊44'24			13236 May 28 13:56	0°♏		
min. Earth dist.	13231 Jul 26 20:59	21°♊39'30	0.63502 AU		13236 Jul 06 09:58	0°♐		
opposition	13231 Jul 31 03:49	19°♊57'36	-0°16'40		13236 Aug 13 09:13	0°♑		
greatest brilliancy	13231 Jul 31 02:41	19°♊58'43	-1.5m		13236 Sep 20 13:31	0°♒		
direct	13231 Sep 08 01:49	10°♊54'48		evening set	13236 Oct 03 18:12	10°♒12'13		
	13231 Nov 14 16:44	0°♋			13236 Oct 29 20:08	0°♓		
	13232 Jan 11 01:18	0°♌						
	13232 Feb 29 22:29	0°♍		conjunction	13236 Dec 06 15:26	27°♓41'16	0°50'57	
	13232 Apr 15 22:21	0°♎		minimum elong	13236 Dec 06 17:38	27°♓45'13	0°51'56	
evening set	13232 May 21 08:38	24°♎33'51			13236 Dec 09 21:07	0°♑		
	13232 May 28 23:12	0°♎		max. Earth dist.	13237 Jan 12 20:27	23°♑43'43	2.52904 AU	
max. Earth dist.	13232 Jun 04 05:09	4°♎30'22	2.44820 AU		13237 Jan 22 01:35	0°♒		
	13232 Jul 08 15:58	0°♏		morning rise	13237 Jan 30 12:13	5°♒41'17		
					13237 Mar 08 12:54	0°♋		
conjunction	13232 Jul 16 09:06	5°♏50'53	-0°12'08	desc. node	13237 Mar 14 08:47	3°♋44'13		
minimum elong	13232 Jul 16 10:06	5°♏52'46	0°13'00		13237 Apr 25 10:32	0°♌		
behind sun begin	13232 Jul 15 18:27	5°♏23'01			13237 Jun 15 17:08	0°♍		
behind sun end	13232 Jul 17 01:44	6°♏22'32			13237 Aug 15 02:56	0°♎		
asc. node	13232 Aug 02 16:53	19°♏08'12		retrograde	13237 Oct 06 19:48	12°♎40'25		
	13232 Aug 16 16:25	0°♐		opposition	13237 Nov 13 01:14	4°♎32'12	-4°57'43	
morning rise	13232 Sep 22 00:11	28°♐35'18		greatest brilliancy	13237 Nov 14 07:35	4°♎03'39	-1.7m	
	13232 Sep 23 19:01	0°♑		min. Earth dist.	13237 Nov 20 03:04	1°♎52'54	0.57891 AU	
	13232 Oct 31 20:09	0°♒			13237 Nov 25 10:12	30°♒♋		
	13232 Dec 09 17:23	0°♓		direct	13237 Dec 23 08:26	24°♓52'08		
	13233 Jan 19 09:35	0°♑			13238 Jan 21 18:49	0°♎		
	13233 Mar 03 23:22	0°♒			13238 Mar 22 09:42	0°♎		
	13233 Apr 21 13:55	0°♋		asc. node	13238 Mar 25 21:47	2°♎13'31		
desc. node	13233 Jun 10 04:16	24°♋21'34			13238 May 05 06:52	0°♏		
	13233 Jun 26 23:32	0°♌			13238 Jun 14 05:01	0°♐		
retrograde	13233 Jul 24 04:00	4°♌03'16			13238 Jul 22 20:26	0°♑		
	13233 Aug 18 06:09	30°♒♋			13238 Aug 30 16:33	0°♒		
opposition	13233 Sep 02 20:26	24°♋15'45	-2°51'36		13238 Oct 09 17:01	0°♓		
min. Earth dist.	13233 Sep 02 08:20	24°♋27'45	0.68347 AU		13238 Nov 20 12:28	0°♑		
greatest brilliancy	13233 Sep 02 17:53	24°♋18'16	-1.3m	evening set	13238 Dec 03 00:43	8°♑42'28		
direct	13233 Oct 13 20:26	14°♋29'48			13239 Jan 03 07:51	0°♒		
	13233 Dec 12 02:38	0°♌						
	13234 Feb 07 08:34	0°♍		conjunction	13239 Jan 23 08:00	13°♒16'58	0°03'43	
	13234 Mar 27 03:45	0°♎		minimum elong	13239 Jan 23 08:10	13°♒17'14	0°04'32	
	13234 May 09 13:07	0°♎		behind sun begin	13239 Jan 22 12:34	12°♒45'00		
	13234 Jun 19 02:03	0°♏		behind sun end	13239 Jan 24 03:45	13°♒49'26		
asc. node	13234 Jun 20 11:17	1°♏03'12		desc. node	13239 Jan 29 20:14	17°♒33'27		
evening set	13234 Jul 19 09:21	23°♏23'26		max. Earth dist.	13239 Feb 10 03:40	24°♒55'57	2.63168 AU	
	13234 Jul 27 19:34	0°♐			13239 Feb 17 23:32	0°♋		
	13234 Sep 03 16:51	0°♑		morning rise	13239 Mar 10 21:49	13°♋25'26		
					13239 Apr 06 02:47	0°♌		
conjunction	13234 Sep 29 01:48	20°♑05'53	0°59'14		13239 May 24 11:38	0°♍		
minimum elong	13234 Sep 28 22:26	19°♑59'17	0°59'27		13239 Jul 13 09:13	0°♎		
	13234 Oct 11 16:11	0°♒			13239 Sep 04 19:26	0°♎		
	13234 Nov 19 14:25	0°♓			13239 Nov 27 01:47	0°♏		
max. Earth dist.	13234 Nov 20 01:08	0°♓20'16	2.38837 AU	retrograde	13239 Dec 01 15:07	0°♏07'35		
morning rise	13234 Dec 09 00:06	14°♓30'28			13239 Dec 06 03:24	30°♒♎		
	13234 Dec 30 06:03	0°♑		opposition	13240 Jan 03 10:53	23°♑51'57	-2°25'49	
	13235 Feb 11 06:14	0°♒		greatest brilliancy	13240 Jan 04 08:44	23°♑34'11	-2.5m	
	13235 Mar 29 06:57	0°♋		min. Earth dist.	13240 Jan 12 00:38	21°♑05'30	0.44181 AU	
desc. node	13235 Apr 27 20:44	17°♋59'02		direct	13240 Feb 08 04:00	16°♑15'09		
	13235 May 18 21:19	0°♌		asc. node	13240 Feb 11 06:50	16°♑19'17		
	13235 Jul 22 16:17	0°♍			13240 Mar 27 03:01	0°♏		
retrograde	13235 Aug 28 02:13	6°♍39'30			13240 May 15 03:43	0°♐		
	13235 Sep 30 03:48	30°♒♌			13240 Jun 26 04:22	0°♑		
opposition	13235 Oct 06 18:33	27°♌28'17	-4°30'57		13240 Aug 06 04:59	0°♒		
greatest brilliancy	13235 Oct 07 06:02	27°♌17'03	-1.3m		13240 Sep 17 00:28	0°♓		
min. Earth dist.	13235 Oct 10 03:10	26°♌09'29	0.66475 AU		13240 Oct 30 08:38	0°♑		
direct	13235 Nov 17 08:16	17°♌25'29			13240 Dec 14 08:44	0°♒		
	13236 Jan 07 05:38	0°♍		desc. node	13240 Dec 16 13:36	1°♒26'36		
	13236 Mar 03 06:40	0°♎		evening set	13241 Jan 14 09:26	20°♒09'11		

	13241 Jan 29 17:35	0°♄			13246 Apr 13 20:29	0°♊	
				retrograde	13246 Jun 06 10:57	15°♊17'54	
conjunction	13241 Mar 01 01:14	19°♄19'13 -0°38'47		min. Earth dist.	13246 Jul 10 14:46	7°♊38'30	0.59872 AU
minimum elong	13241 Mar 01 00:10	19°♄17'32 0°38'29		opposition	13246 Jul 16 07:41	5°♊24'05	1°00'04
max. Earth dist.	13241 Mar 04 12:01	21°♄30'36 2.68046 AU		greatest brilliancy	13246 Jul 16 02:48	5°♊28'52	-1.7m
	13241 Mar 17 21:18	0°♃			13246 Jul 31 17:25	30°♋♂	
morning rise	13241 Apr 13 11:29	16°♃50'36		desc. node	13246 Aug 09 12:46	27°♂57'15	
	13241 May 04 05:36	0°♄		direct	13246 Aug 22 23:49	26°♂47'03	
	13241 Jun 20 08:32	0°♅			13246 Sep 16 07:50	0°♊	
	13241 Aug 06 03:07	0°♆			13246 Nov 26 21:29	0°♄	
	13241 Sep 21 18:39	0°♇			13247 Jan 19 09:04	0°♃	
	13241 Nov 08 05:44	0°♈			13247 Mar 09 05:50	0°♄	
asc. node	13241 Dec 29 11:14	29°♈02'20			13247 Apr 23 23:37	0°♅	
	13241 Dec 31 11:08	0°♉		evening set	13247 May 04 13:51	7°♅13'01	
retrograde	13242 Feb 19 06:32	13°♉49'53		max. Earth dist.	13247 May 19 03:51	17°♅19'05	2.50173 AU
min. Earth dist.	13242 Mar 19 03:35	9°♉17'58 0.36541 AU			13247 Jun 06 01:59	0°♆	
opposition	13242 Mar 21 05:20	8°♉44'42 5°38'54					
greatest brilliancy	13242 Mar 20 17:05	8°♉52'54 -3.0m		conjunction	13247 Jun 25 00:12	13°♆42'12 -0°36'51	
direct	13242 Apr 19 08:58	3°♉54'28		minimum elong	13247 Jun 25 02:06	13°♆45'42 0°37'50	
	13242 Jul 01 23:30	0°♊			13247 Jul 16 23:31	0°♇	
	13242 Aug 21 00:13	0°♋		asc. node	13247 Aug 20 11:47	26°♇19'47	
	13242 Oct 07 15:12	0°♌		morning rise	13247 Aug 24 03:00	29°♇08'46	
desc. node	13242 Nov 03 16:48	17°♌05'01			13247 Aug 25 05:24	0°♈	
	13242 Nov 24 05:32	0°♍			13247 Oct 02 12:23	0°♉	
	13243 Jan 11 02:25	0°♄			13247 Nov 09 16:18	0°♊	
evening set	13243 Feb 19 23:18	25°♄01'07			13247 Dec 18 15:27	0°♋	
	13243 Feb 27 20:57	0°♃			13248 Jan 28 11:30	0°♌	
max. Earth dist.	13243 Mar 26 10:46	16°♃50'50 2.67379 AU			13248 Mar 12 16:10	0°♍	
					13248 May 02 23:47	0°♄	
conjunction	13243 Apr 04 20:41	22°♃51'24 -1°05'22		desc. node	13248 Jun 26 18:06	20°♄12'53	
minimum elong	13243 Apr 04 19:51	22°♃50'04 1°05'40		retrograde	13248 Jul 10 23:24	21°♄25'53	
	13243 Apr 15 23:49	0°♄		min. Earth dist.	13248 Aug 18 16:56	12°♄17'50	0.67246 AU
morning rise	13243 May 18 11:40	21°♄06'31		opposition	13248 Aug 20 17:10	11°♄29'56 -1°58'35	
	13243 May 31 23:29	0°♅		greatest brilliancy	13248 Aug 20 12:42	11°♄34'22 -1.3m	
	13243 Jul 15 13:25	0°♆		direct	13248 Sep 30 02:12	1°♄57'32	
	13243 Aug 27 16:06	0°♇			13248 Dec 24 21:52	0°♃	
	13243 Oct 08 10:29	0°♈			13249 Feb 15 22:29	0°♄	
asc. node	13243 Nov 16 09:23	28°♈34'07			13249 Apr 03 19:09	0°♅	
	13243 Nov 18 08:05	0°♉			13249 May 16 23:19	0°♆	
	13243 Dec 29 12:30	0°♊		evening set	13249 Jun 23 11:36	27°♆41'29	
	13244 Feb 12 00:36	0°♋			13249 Jun 26 12:45	0°♇	
retrograde	13244 Apr 24 03:42	27°♋29'59		asc. node	13249 Jul 07 04:19	8°♇07'35	
min. Earth dist.	13244 May 22 08:05	21°♋58'32 0.47102 AU		max. Earth dist.	13249 Jul 28 23:14	25°♇00'27 2.36936 AU	
greatest brilliancy	13244 May 29 06:43	19°♋30'42 -2.3m			13249 Aug 04 08:11	0°♈	
opposition	13244 May 30 16:29	19°♋00'30 4°59'21					
direct	13244 Jul 02 23:18	12°♋07'05		conjunction	13249 Aug 28 14:22	19°♈08'47 0°35'51	
	13244 Sep 03 10:05	0°♉		minimum elong	13249 Aug 28 10:54	19°♈01'56 0°35'30	
desc. node	13244 Sep 21 02:50	8°♉39'15			13249 Sep 11 06:40	0°♊	
	13244 Oct 30 13:31	0°♋			13249 Oct 19 05:46	0°♌	
	13244 Dec 21 01:32	0°♄		morning rise	13249 Nov 11 01:44	17°♌45'08	
	13245 Feb 08 09:17	0°♃			13249 Nov 27 02:28	0°♋	
evening set	13245 Mar 26 09:28	29°♃01'53			13250 Jan 06 16:26	0°♌	
	13245 Mar 27 21:33	0°♄			13250 Feb 18 18:23	0°♍	
max. Earth dist.	13245 Apr 18 11:58	14°♄03'17 2.61286 AU			13250 Apr 06 08:41	0°♄	
				desc. node	13250 May 14 14:24	22°♄11'52	
conjunction	13245 May 10 16:28	28°♄48'02 -1°08'39			13250 May 29 10:55	0°♃	
minimum elong	13245 May 10 17:03	28°♄49'02 1°09'29		retrograde	13250 Aug 14 03:34	24°♃03'33	
	13245 May 12 11:16	0°♅		opposition	13250 Sep 23 09:07	14°♃35'32 -3°59'14	
	13245 Jun 25 00:35	0°♆		greatest brilliancy	13250 Sep 23 13:50	14°♃30'53 -1.3m	
morning rise	13245 Jun 27 13:26	1°♆47'21		min. Earth dist.	13250 Sep 25 04:59	13°♃52'21 0.68031 AU	
	13245 Aug 05 16:24	0°♇		direct	13250 Nov 03 22:04	4°♃36'08	
	13245 Sep 14 18:12	0°♈			13251 Jan 21 11:53	0°♄	
asc. node	13245 Oct 03 00:43	13°♈58'28			13251 Mar 13 13:03	0°♅	
	13245 Oct 23 19:03	0°♉			13251 Apr 26 19:02	0°♆	
	13245 Dec 01 14:30	0°♊		asc. node	13251 May 25 04:24	20°♆42'14	
	13246 Jan 10 08:24	0°♋			13251 Jun 06 12:52	0°♇	
	13246 Feb 21 22:46	0°♌			13251 Jul 15 06:38	0°♈	

	13251 Aug 22 03:54	0°♏			13256 Jun 28 02:58	0°♐		
evening set	13251 Sep 04 16:24	10°♏42'50			13256 Aug 15 12:16	0°♑		
	13251 Sep 29 04:58	0°♎			13256 Oct 04 11:46	0°♑		
	13251 Nov 07 06:55	0°♏			13256 Nov 30 21:10	0°♐		
				asc. node	13257 Jan 15 02:30	11°♐43'23		
conjunction	13251 Nov 13 16:39	4°♏48'20	1°03'32	retrograde	13257 Jan 17 02:17	11°♐44'55		
minimum elong	13251 Nov 13 18:15	4°♏51'19	1°04'24	opposition	13257 Feb 15 22:59	6°♐46'24	2°23'59	
	13251 Dec 18 02:36	0°♑		greatest brilliancy	13257 Feb 16 05:26	6°♐42'00	-3.0m	
max. Earth dist.	13251 Dec 30 02:16	8°♑31'18	2.47596 AU	min. Earth dist.	13257 Feb 19 17:06	5°♐44'56	0.37323 AU	
morning rise	13252 Jan 13 03:30	18°♑20'57		direct	13257 Mar 18 16:17	1°♐21'48		
	13252 Jan 30 03:26	0°♐			13257 Jun 01 22:32	0°♏		
	13252 Mar 15 16:29	0°♏			13257 Jul 18 15:16	0°♎		
desc. node	13252 Mar 31 02:48	9°♏45'53			13257 Sep 01 10:20	0°♏		
	13252 May 03 05:52	0°♐			13257 Oct 16 16:44	0°♑		
	13252 Jun 25 23:49	0°♏		desc. node	13257 Nov 20 04:34	22°♑24'55		
retrograde	13252 Sep 19 20:37	28°♑05'45			13257 Dec 01 23:46	0°♐		
opposition	13252 Oct 28 05:54	19°♑28'39	-4°59'09		13258 Jan 18 03:08	0°♏		
greatest brilliancy	13252 Oct 29 05:16	19°♑06'13	-1.5m	evening set	13258 Feb 06 02:55	12°♏00'27		
min. Earth dist.	13252 Nov 02 22:02	17°♑18'08	0.62033 AU		13258 Mar 06 13:59	0°♐		
direct	13252 Dec 08 07:46	9°♑32'44		max. Earth dist.	13258 Mar 17 22:43	7°♐11'57	2.68287 AU	
	13253 Feb 11 22:53	0°♐						
	13253 Apr 02 11:48	0°♑		conjunction	13258 Mar 22 08:00	9°♐58'57	-0°57'23	
asc. node	13253 Apr 11 09:48	6°♑04'25		minimum elong	13258 Mar 22 06:54	9°♐57'13	0°57'27	
	13253 May 14 16:58	0°♑			13258 Apr 22 17:19	0°♏		
	13253 Jun 23 00:24	0°♐		morning rise	13258 May 04 11:48	7°♑33'53		
	13253 Jul 31 06:50	0°♏			13258 Jun 08 01:07	0°♐		
	13253 Sep 07 18:34	0°♎			13258 Jul 23 07:00	0°♑		
	13253 Oct 17 10:01	0°♏			13258 Sep 05 09:04	0°♑		
evening set	13253 Nov 12 06:00	18°♏52'35			13258 Oct 18 10:41	0°♐		
	13253 Nov 27 20:11	0°♑			13258 Nov 30 03:20	0°♏		
				asc. node	13258 Dec 03 02:56	2°♏04'44		
conjunction	13254 Jan 06 12:03	27°♑25'03	0°22'33		13259 Jan 13 14:38	0°♎		
minimum elong	13254 Jan 06 13:07	27°♑26'49	0°23'30		13259 Mar 15 13:16	0°♏		
	13254 Jan 10 07:51	0°♐		retrograde	13259 Apr 03 12:30	2°♏31'13		
max. Earth dist.	13254 Jan 31 06:17	13°♐57'44	2.59744 AU		13259 Apr 22 05:35	30°♏♎		
desc. node	13254 Feb 15 13:57	24°♐00'30		min. Earth dist.	13259 Apr 29 14:59	27°♎53'10	0.41733 AU	
morning rise	13254 Feb 24 12:46	29°♐48'55		greatest brilliancy	13259 May 05 21:38	25°♎52'56	-2.6m	
	13254 Feb 24 19:38	0°♏		opposition	13259 May 07 13:51	25°♎20'29	6°21'46	
	13254 Apr 13 02:43	0°♐		direct	13259 Jun 07 17:12	19°♎25'30		
	13254 Jun 01 05:51	0°♏			13259 Jul 22 09:45	0°♏		
	13254 Jul 23 08:11	0°♐			13259 Sep 19 18:16	0°♑		
	13254 Sep 23 16:28	0°♑		desc. node	13259 Oct 08 12:11	10°♑44'15		
retrograde	13254 Nov 07 03:10	9°♑39'25			13259 Nov 10 04:07	0°♐		
opposition	13254 Dec 11 23:29	2°♑32'10	-4°00'56		13259 Dec 29 19:18	0°♏		
greatest brilliancy	13254 Dec 13 08:23	2°♑03'09	-2.1m		13260 Feb 16 08:57	0°♐		
	13254 Dec 19 04:29	30°♏♐		evening set	13260 Mar 12 10:19	15°♐46'45		
min. Earth dist.	13254 Dec 20 15:50	29°♐29'44	0.49827 AU		13260 Apr 03 16:01	0°♏		
direct	13255 Jan 19 01:01	23°♐49'07		max. Earth dist.	13260 Apr 08 15:24	3°♑12'48	2.64312 AU	
	13255 Feb 19 10:42	0°♑						
asc. node	13255 Feb 27 18:30	3°♑19'01		conjunction	13260 Apr 25 18:15	14°♑21'59	-1°10'46	
	13255 Apr 16 06:17	0°♑		minimum elong	13260 Apr 25 18:10	14°♑21'50	1°11'25	
	13255 May 28 21:28	0°♐			13260 May 19 08:21	0°♐		
	13255 Jul 07 20:28	0°♏		morning rise	13260 Jun 10 08:07	14°♐52'37		
	13255 Aug 16 15:43	0°♎			13260 Jul 02 05:40	0°♑		
	13255 Sep 26 12:49	0°♏			13260 Aug 13 08:32	0°♑		
	13255 Nov 08 02:41	0°♑			13260 Sep 22 22:37	0°♐		
	13255 Dec 22 12:52	0°♐		asc. node	13260 Oct 19 20:15	20°♐21'25		
evening set	13255 Dec 30 16:36	5°♐23'15			13260 Nov 01 11:31	0°♏		
desc. node	13256 Jan 03 05:48	7°♐43'19			13260 Dec 10 19:49	0°♎		
	13256 Feb 06 12:51	0°♏			13261 Jan 20 09:38	0°♏		
					13261 Mar 06 05:49	0°♑		
conjunction	13256 Feb 15 23:42	6°♏04'02	-0°23'50	retrograde	13261 May 22 00:16	28°♑57'07		
minimum elong	13256 Feb 15 22:56	6°♏02'48	0°23'19	min. Earth dist.	13261 Jun 22 23:44	22°♑02'36	0.55367 AU	
max. Earth dist.	13256 Feb 24 15:50	11°♏36'49	2.66783 AU	opposition	13261 Jun 29 23:47	19°♑20'57	2°27'29	
	13256 Mar 24 14:25	0°♐		greatest brilliancy	13261 Jun 29 09:14	19°♑34'57	-1.9m	
morning rise	13256 Mar 31 05:28	4°♐11'24		direct	13261 Aug 05 03:18	11°♑17'00		
	13256 May 11 05:16	0°♏		desc. node	13261 Aug 25 23:20	13°♑43'55		

	13261 Oct 10 00:41	0°♊			13266 Oct 06 19:06	0°♌	
	13261 Dec 06 19:29	0°♋					
	13262 Jan 27 03:05	0°♌	conjunction		13266 Oct 16 11:34	7°♌33'11	1°05'25
	13262 Mar 16 07:51	0°♍	minimum elong		13266 Oct 16 10:10	7°♌30'29	1°05'56
evening set	13262 Apr 18 10:53	21°♍37'13			13266 Nov 14 18:04	0°♎	
	13262 Apr 30 22:47	0°♎	max. Earth dist.		13266 Dec 08 22:47	18°♎01'49	2.41899 AU
max. Earth dist.	13262 May 05 19:07	3°♎17'04	2.55078 AU	morning rise	13266 Dec 22 17:52	28°♎04'21	
					13266 Dec 25 10:05	0°♏	
conjunction	13262 Jun 05 16:03	24°♎39'51	-0°54'25		13267 Feb 06 09:00	0°♏	
minimum elong	13262 Jun 05 17:43	24°♎42'48	0°55'24		13267 Mar 24 02:56	0°♋	
	13262 Jun 13 04:43	0°♏		desc. node	13267 Apr 17 22:09	15°♋22'16	
	13262 Jul 24 08:27	0°♐			13267 May 12 17:18	0°♌	
morning rise	13262 Jul 29 15:12	3°♐56'45			13267 Jul 10 05:38	0°♍	
	13262 Sep 01 21:00	0°♑		retrograde	13267 Sep 05 09:41	14°♍33'58	
asc. node	13262 Sep 06 09:51	3°♑30'14		opposition	13267 Oct 14 16:30	5°♍33'30	-4°44'49
	13262 Oct 10 09:25	0°♑		greatest brilliancy	13267 Oct 15 08:05	5°♍18'20	-1.4m
	13262 Nov 17 17:13	0°♌		min. Earth dist.	13267 Oct 18 20:51	3°♍55'59	0.65186 AU
	13262 Dec 26 20:08	0°♎			13267 Oct 29 18:13	30°♎	
	13263 Feb 06 00:17	0°♏		direct	13267 Nov 25 04:10	25°♌31'14	
	13263 Mar 23 09:04	0°♊			13267 Dec 23 14:23	0°♍	
	13263 May 20 11:36	0°♋			13268 Feb 25 13:48	0°♎	
retrograde	13263 Jun 28 14:32	8°♋19'49			13268 Apr 11 22:51	0°♏	
desc. node	13263 Jul 14 06:32	6°♋39'55		asc. node	13268 Apr 27 23:00	11°♏18'44	
	13263 Aug 03 23:54	30°♋			13268 May 23 07:57	0°♐	
min. Earth dist.	13263 Aug 04 17:17	29°♋42'50	0.65125 AU		13268 Jul 01 07:24	0°♑	
opposition	13263 Aug 08 05:06	28°♋19'39	-0°57'02		13268 Aug 08 08:26	0°♑	
greatest brilliancy	13263 Aug 08 01:39	28°♋23'04	-1.4m		13268 Sep 15 14:23	0°♌	
direct	13263 Sep 16 17:44	19°♋04'55		evening set	13268 Oct 19 02:34	25°♌36'44	
	13263 Nov 04 05:05	0°♋			13268 Oct 24 23:06	0°♎	
	13264 Jan 05 00:22	0°♌			13268 Dec 05 02:08	0°♏	
	13264 Feb 24 20:03	0°♍					
	13264 Apr 11 03:00	0°♎		conjunction	13268 Dec 18 13:52	9°♏31'18	0°41'12
	13264 May 24 05:30	0°♏		minimum elong	13268 Dec 18 15:48	9°♏34'40	0°42'12
evening set	13264 Jun 01 10:10	5°♏55'09			13269 Jan 17 07:59	0°♊	
max. Earth dist.	13264 Jun 17 02:22	17°♏25'18	2.41814 AU	max. Earth dist.	13269 Jan 20 02:27	1°♊52'14	2.55556 AU
	13264 Jul 03 21:33	0°♐		morning rise	13269 Feb 09 00:22	15°♊09'36	
asc. node	13264 Jul 23 23:02	15°♐19'16			13269 Mar 03 18:03	0°♋	
				desc. node	13269 Mar 04 09:17	0°♋24'34	
conjunction	13264 Jul 30 16:14	20°♐30'50	0°04'48		13269 Apr 20 08:22	0°♌	
minimum elong	13264 Jul 30 15:53	20°♐30'08	0°04'04		13269 Jun 09 14:53	0°♍	
behind sun begin	13264 Jul 29 13:00	19°♐38'06			13269 Aug 04 15:07	0°♎	
behind sun end	13264 Jul 31 18:45	21°♐22'13		retrograde	13269 Oct 17 09:07	22°♎11'06	
	13264 Aug 11 20:38	0°♑		opposition	13269 Nov 22 20:34	14°♎22'01	-4°46'11
	13264 Sep 18 21:47	0°♑		greatest brilliancy	13269 Nov 24 05:23	13°♎51'40	-1.8m
morning rise	13264 Oct 10 02:50	16°♑47'05		min. Earth dist.	13269 Nov 30 15:01	11°♎30'26	0.55217 AU
	13264 Oct 26 21:44	0°♌		direct	13270 Jan 01 12:40	4°♎57'07	
	13264 Dec 04 17:55	0°♎			13270 Mar 13 19:47	0°♏	
	13265 Jan 14 07:39	0°♏		asc. node	13270 Mar 16 07:09	1°♏27'01	
	13265 Feb 26 14:21	0°♊			13270 Apr 28 17:10	0°♐	
	13265 Apr 15 04:02	0°♋			13270 Jun 08 07:20	0°♑	
desc. node	13265 May 31 06:00	24°♋37'57			13270 Jul 17 07:02	0°♑	
	13265 Jun 12 11:41	0°♌			13270 Aug 25 09:10	0°♌	
retrograde	13265 Jul 31 17:27	11°♌40'13			13270 Oct 04 15:04	0°♎	
opposition	13265 Sep 10 07:24	1°♌58'36	-3°19'06		13270 Nov 15 15:13	0°♏	
greatest brilliancy	13265 Sep 10 06:53	1°♌59'06	-1.3m	evening set	13270 Dec 13 13:41	19°♏12'48	
min. Earth dist.	13265 Sep 10 14:59	1°♌51'05	0.68524 AU		13270 Dec 29 14:23	0°♊	
	13265 Sep 15 08:16	30°♋		desc. node	13271 Jan 19 21:38	14°♊06'22	
direct	13265 Oct 21 13:48	22°♋06'46					
	13265 Nov 30 12:53	0°♌		conjunction	13271 Feb 01 04:49	22°♊08'33	-0°06'56
	13266 Feb 01 04:19	0°♍		minimum elong	13271 Feb 01 04:33	22°♊08'09	0°06'13
	13266 Mar 21 21:54	0°♎		behind sun begin	13271 Jan 31 10:11	21°♊38'16	
	13266 May 04 14:03	0°♏		behind sun end	13271 Feb 01 22:55	22°♊38'00	
asc. node	13266 Jun 10 18:40	27°♏24'30			13271 Feb 13 07:45	0°♋	
	13266 Jun 14 04:44	0°♐		max. Earth dist.	13271 Feb 15 15:04	1°♋29'11	2.64683 AU
	13266 Jul 22 22:27	0°♑		morning rise	13271 Mar 18 18:34	21°♋23'29	
evening set	13266 Aug 04 17:20	10°♑05'27			13271 Apr 01 09:24	0°♌	
	13266 Aug 29 19:34	0°♑			13271 May 19 10:09	0°♍	

	13271 Jul 07 10:30	0°♊			13276 Aug 18 21:41	0°♎	
	13271 Aug 27 10:04	0°♋		desc. node	13276 Sep 11 07:58	9°♎07'15	
	13271 Oct 24 11:18	0°♌			13276 Oct 23 09:41	0°♏	
retrograde	13271 Dec 17 14:05	14°♌03'31			13276 Dec 15 12:39	0°♐	
opposition	13272 Jan 18 03:03	8°♌19'12 -0°59'48			13277 Feb 03 11:14	0°♑	
greatest brilliancy	13272 Jan 18 11:53	8°♌12'25 -2.7m			13277 Mar 23 05:07	0°♒	
min. Earth dist.	13272 Jan 25 17:33	5°♌59'34 0.41231 AU		evening set	13277 Apr 03 13:29	7°♒20'10	
asc. node	13272 Feb 01 15:02	4°♌05'11		max. Earth dist.	13277 Apr 24 10:45	21°♒03'33 2.59278 AU	
direct	13272 Feb 21 04:15	1°♌29'41			13277 May 07 19:24	0°♓	
	13272 May 04 19:22	0°♐					
	13272 Jun 18 11:07	0°♑		conjunction	13277 May 19 15:57	8°♓02'28 -1°05'08	
	13272 Jul 30 15:53	0°♒		minimum elong	13277 May 19 16:58	8°♓04'11 1°06'03	
	13272 Sep 11 05:18	0°♓			13277 Jun 20 06:24	0°♋	
	13272 Oct 25 02:01	0°♎		morning rise	13277 Jul 08 07:02	12°♋52'29	
desc. node	13272 Dec 06 17:45	28°♎13'49			13277 Jul 31 17:59	0°♌	
	13272 Dec 09 10:55	0°♏			13277 Sep 09 15:04	0°♐	
evening set	13273 Jan 22 20:02	28°♏35'35		asc. node	13277 Sep 23 05:23	10°♐26'23	
	13273 Jan 25 00:56	0°♐			13277 Oct 18 11:13	0°♑	
					13277 Nov 26 01:38	0°♒	
conjunction	13273 Mar 08 19:54	27°♐11'05 -0°46'26			13278 Jan 04 12:16	0°♓	
minimum elong	13273 Mar 08 18:46	27°♐09'17 0°46'15			13278 Feb 15 08:54	0°♎	
max. Earth dist.	13273 Mar 09 11:54	27°♐36'26 2.68374 AU			13278 Apr 04 04:27	0°♏	
	13273 Mar 13 06:30	0°♑		retrograde	13278 Jun 14 17:03	24°♏19'06	
morning rise	13273 Apr 21 00:31	24°♑35'28		min. Earth dist.	13278 Jul 19 23:26	16°♏18'05 0.61989 AU	
	13273 Apr 29 12:29	0°♒		opposition	13278 Jul 24 22:10	14°♏20'55 0°14'06	
	13273 Jun 15 07:45	0°♓		greatest brilliancy	13278 Jul 24 21:12	14°♏21'52 -1.6m	
	13273 Jul 31 11:21	0°♋		desc. node	13278 Jul 30 18:03	12°♏06'05	
	13273 Sep 14 23:43	0°♌		direct	13278 Sep 01 08:10	5°♏28'57	
	13273 Oct 30 06:45	0°♍			13278 Nov 19 06:48	0°♐	
	13273 Dec 16 02:05	0°♎			13279 Jan 13 19:52	0°♑	
asc. node	13273 Dec 19 20:20	2°♎16'42			13279 Mar 04 07:29	0°♒	
	13274 Feb 16 11:35	0°♏			13279 Apr 19 06:02	0°♓	
retrograde	13274 Mar 08 06:59	2°♏40'30		evening set	13279 May 14 09:26	17°♓16'28	
	13274 Mar 28 12:13	30°♏♌		max. Earth dist.	13279 May 28 05:21	27°♓02'00 2.47266 AU	
min. Earth dist.	13274 Apr 03 12:02	28°♏25'08 0.37626 AU			13279 Jun 01 09:01	0°♋	
greatest brilliancy	13274 Apr 07 08:29	27°♏19'59 -2.9m					
opposition	13274 Apr 08 12:40	27°♏00'03 6°33'48		conjunction	13279 Jul 07 03:56	26°♋13'07 -0°23'36	
direct	13274 May 07 20:50	21°♏57'54		minimum elong	13279 Jul 07 05:31	26°♋16'04 0°24'32	
	13274 Jun 14 05:32	0°♐			13279 Jul 12 04:53	0°♌	
	13274 Aug 12 06:11	0°♑		asc. node	13279 Aug 10 18:02	22°♌33'09	
	13274 Oct 01 03:46	0°♒			13279 Aug 20 08:27	0°♓	
desc. node	13274 Oct 24 22:03	14°♒37'47		morning rise	13279 Sep 09 09:02	15°♓40'33	
	13274 Nov 18 18:44	0°♓		greatest brilliancy	13279 Sep 24 05:46	27°♓23'20 1.2m	
	13275 Jan 06 04:09	0°♋			13279 Sep 27 13:08	0°♌	
	13275 Feb 23 04:42	0°♍			13279 Nov 04 15:00	0°♏	
evening set	13275 Feb 27 18:39	2°♑53'07			13279 Dec 13 12:08	0°♐	
max. Earth dist.	13275 Mar 31 12:54	23°♑02'57 2.66522 AU			13280 Jan 23 04:13	0°♑	
	13275 Apr 11 08:49	0°♒			13280 Mar 06 21:09	0°♒	
					13280 Apr 25 05:51	0°♓	
conjunction	13275 Apr 12 16:13	0°♓50'36 -1°08'29		desc. node	13280 Jun 16 21:46	23°♓47'06	
minimum elong	13275 Apr 12 15:36	0°♓49'36 1°08'55		retrograde	13280 Jul 18 12:22	29°♓12'05	
morning rise	13275 May 26 19:05	29°♓42'14		min. Earth dist.	13280 Aug 27 01:51	19°♓48'36 0.67984 AU	
	13275 May 27 05:47	0°♓		opposition	13280 Aug 28 06:25	19°♓20'16 -2°30'46	
	13275 Jul 10 13:47	0°♋		greatest brilliancy	13280 Aug 28 02:39	19°♓24'00 -1.3m	
	13275 Aug 22 07:27	0°♌		direct	13280 Oct 08 00:54	9°♓39'58	
	13275 Oct 02 14:39	0°♍			13280 Dec 17 00:35	0°♑	
asc. node	13275 Nov 06 16:34	26°♐05'12			13281 Feb 10 07:21	0°♒	
	13275 Nov 11 22:02	0°♎			13281 Mar 29 18:05	0°♓	
	13275 Dec 22 04:56	0°♏			13281 May 12 02:49	0°♋	
	13276 Feb 02 12:52	0°♐			13281 Jun 21 17:06	0°♌	
	13276 Mar 25 09:18	0°♒		asc. node	13281 Jun 27 11:37	4°♌23'31	
retrograde	13276 May 04 21:17	10°♒07'50		evening set	13281 Jul 07 12:42	12°♌06'06	
min. Earth dist.	13276 Jun 03 10:45	4°♒05'31 0.50124 AU			13281 Jul 30 12:15	0°♐	
greatest brilliancy	13276 Jun 10 08:31	1°♒32'36 -2.1m			13281 Sep 06 10:12	0°♑	
opposition	13276 Jun 11 11:30	1°♒07'37 4°03'48					
	13276 Jun 14 13:45	30°♒♑		conjunction	13281 Sep 15 03:03	6°♑54'31 0°50'47	
direct	13276 Jul 15 19:29	23°♑46'22		minimum elong	13281 Sep 14 22:59	6°♑46'26 0°50'45	

	13281 Oct 14 08:55	0°♌			13286 Jul 16 14:46	0°♊		
max. Earth dist.	13281 Oct 23 09:37	7°♌03'27	2.36767 AU		13286 Sep 10 15:01	0°♍		
	13281 Nov 22 05:31	0°♊		retrograde	13286 Nov 20 08:44	21°♍14'01		
morning rise	13281 Nov 27 08:07	3°♊51'36		opposition	13286 Dec 24 03:15	14°♍34'10	-3°13'54	
	13282 Jan 01 18:56	0°♊		greatest brilliancy	13286 Dec 25 07:38	14°♍10'09	-2.3m	
	13282 Feb 13 17:51	0°♋		min. Earth dist.	13287 Jan 01 23:00	11°♍35'54	0.46701 AU	
	13282 Mar 31 21:29	0°♈		direct	13287 Jan 30 00:55	6°♍24'15		
desc. node	13282 May 04 15:44	20°♈13'22		asc. node	13287 Feb 18 05:15	8°♍53'38		
	13282 May 22 05:43	0°♈			13287 Apr 06 06:40	0°♌		
	13282 Aug 04 10:42	0°♈			13287 May 21 12:17	0°♌		
retrograde	13282 Aug 22 00:51	1°♈43'34			13287 Jul 01 10:20	0°♌		
	13282 Sep 07 12:41	30°♈♈			13287 Aug 10 19:06	0°♌		
opposition	13282 Sep 30 23:46	22°♈24'15	-4°18'54		13287 Sep 21 02:23	0°♊		
greatest brilliancy	13282 Oct 01 08:04	22°♈16'06	-1.3m		13287 Nov 03 00:31	0°♊		
min. Earth dist.	13282 Oct 03 15:45	21°♈21'32	0.67295 AU		13287 Dec 17 16:55	0°♋		
direct	13282 Nov 11 14:02	12°♈22'32		desc. node	13287 Dec 24 07:19	4°♋20'27		
	13283 Jan 13 00:24	0°♈		evening set	13288 Jan 08 19:00	14°♋27'18		
	13283 Mar 07 15:05	0°♊			13288 Feb 01 20:47	0°♈		
	13283 Apr 21 12:01	0°♍						
asc. node	13283 May 15 11:46	17°♍19'31		conjunction	13288 Feb 24 02:09	14°♈12'23	-0°32'52	
	13283 Jun 01 10:41	0°♌		minimum elong	13288 Feb 24 01:11	14°♈10'51	0°32'28	
	13283 Jul 10 06:24	0°♌		max. Earth dist.	13288 Feb 29 18:49	17°♈49'52	2.67595 AU	
greatest brilliancy	13283 Jul 11 12:45	0°♌59'36	1.2m		13288 Mar 19 23:03	0°♈		
	13283 Aug 17 04:52	0°♌		morning rise	13288 Apr 07 19:24	11°♈55'39		
evening set	13283 Sep 21 22:28	28°♌09'20			13288 May 06 09:49	0°♈		
	13283 Sep 24 07:13	0°♌			13288 Jun 22 20:28	0°♊		
	13283 Nov 02 10:52	0°♊			13288 Aug 09 06:27	0°♍		
					13288 Sep 26 02:37	0°♌		
conjunction	13283 Nov 27 16:13	18°♊40'52	0°57'13		13288 Nov 15 06:41	0°♌		
minimum elong	13283 Nov 27 18:26	18°♊44'54	0°58'11	asc. node	13289 Jan 05 11:02	24°♌20'26		
	13283 Dec 13 08:11	0°♊		retrograde	13289 Feb 04 23:12	29°♌53'25		
max. Earth dist.	13284 Jan 07 21:29	17°♊59'58	2.50603 AU	opposition	13289 Mar 06 10:52	25°♌00'43	4°25'10	
morning rise	13284 Jan 23 19:59	28°♊56'28		greatest brilliancy	13289 Mar 06 10:29	25°♌00'58	-3.0m	
	13284 Jan 25 09:25	0°♋		min. Earth dist.	13289 Mar 07 01:55	24°♌50'47	0.36440 AU	
	13284 Mar 10 19:43	0°♈		direct	13289 Apr 04 22:32	20°♌04'36		
desc. node	13284 Mar 21 04:16	6°♈36'57			13289 May 15 19:41	0°♌		
	13284 Apr 27 21:49	0°♈			13289 Jul 09 10:37	0°♌		
	13284 Jun 18 23:39	0°♈			13289 Aug 25 11:56	0°♊		
	13284 Aug 23 13:39	0°♊			13289 Oct 10 21:21	0°♊		
retrograde	13284 Sep 29 05:48	6°♊42'57		desc. node	13289 Nov 10 08:54	19°♊32'08		
	13284 Nov 01 14:33	30°♊♊			13289 Nov 26 19:37	0°♋		
opposition	13284 Nov 06 00:47	28°♊20'49	-5°00'25		13290 Jan 13 07:42	0°♈		
greatest brilliancy	13284 Nov 07 04:11	27°♊54'47	-1.6m	evening set	13290 Feb 14 01:46	19°♈59'17		
min. Earth dist.	13284 Nov 12 12:11	25°♊53'31	0.59862 AU		13290 Mar 01 22:40	0°♈		
direct	13284 Dec 16 17:39	18°♊32'15		max. Earth dist.	13290 Mar 22 22:29	13°♈18'04	2.67893 AU	
	13285 Feb 01 01:02	0°♊						
	13285 Mar 26 18:42	0°♍		conjunction	13290 Mar 30 01:03	17°♈49'23	-1°02'29	
asc. node	13285 Apr 01 19:34	3°♍58'03		minimum elong	13290 Mar 30 00:05	17°♈47'50	1°02'41	
	13285 May 08 20:57	0°♌			13290 Apr 18 01:56	0°♈		
	13285 Jun 17 12:26	0°♌		morning rise	13290 May 12 09:15	15°♈42'12		
	13285 Jul 25 23:26	0°♌			13290 Jun 03 05:41	0°♊		
	13285 Sep 02 14:51	0°♌			13290 Jul 18 03:05	0°♍		
	13285 Oct 12 10:08	0°♊			13290 Aug 30 15:59	0°♌		
	13285 Nov 23 00:07	0°♊			13290 Oct 11 23:16	0°♌		
evening set	13285 Nov 24 09:18	0°♊58'23			13290 Nov 22 12:41	0°♌		
	13286 Jan 05 14:43	0°♋		asc. node	13290 Nov 23 10:15	0°♌38'58		
					13291 Jan 03 17:34	0°♌		
conjunction	13286 Jan 16 06:53	7°♋08'26	0°11'32		13291 Feb 20 04:15	0°♊		
minimum elong	13286 Jan 16 07:24	7°♋09'18	0°12'25	retrograde	13291 Apr 16 04:53	17°♊41'27		
behind sun begin	13286 Jan 15 18:16	6°♋47'26		min. Earth dist.	13291 May 13 08:48	12°♊34'51	0.44635 AU	
behind sun end	13286 Jan 16 20:33	7°♋31'10		greatest brilliancy	13291 May 20 03:32	10°♊16'12	-2.4m	
desc. node	13286 Feb 05 15:28	20°♋34'19		opposition	13291 May 21 17:26	9°♊43'34	5°39'27	
max. Earth dist.	13286 Feb 06 03:38	20°♋54'12	2.61750 AU	direct	13291 Jun 23 01:42	3°♊15'21		
	13286 Feb 20 03:26	0°♈			13291 Sep 10 20:29	0°♊		
morning rise	13286 Mar 04 20:10	8°♈10'20		desc. node	13291 Sep 28 18:29	9°♊32'14		
	13286 Apr 08 07:14	0°♈			13291 Nov 03 23:16	0°♋		
	13286 May 26 22:25	0°♈			13291 Dec 24 13:54	0°♈		

	13292 Feb 11 13:44	0°♊			13296 Oct 21 22:47	0°♍	
evening set	13292 Mar 20 08:29	23°♊48'18		morning rise	13296 Oct 28 09:30	5°♍02'52	
	13292 Mar 30 00:19	0°♋			13296 Nov 29 18:21	0°♎	
max. Earth dist.	13292 Apr 14 05:01	9°♋50'55	2.62746 AU		13297 Jan 09 06:52	0°♏	
					13297 Feb 21 08:37	0°♐	
conjunction	13292 May 04 03:23	22°♋58'05	-1°10'10		13297 Apr 09 05:06	0°♑	
minimum elong	13292 May 04 03:40	22°♋58'33	1°10'55	desc. node	13297 May 21 09:11	23°♑50'18	
	13292 May 14 16:08	0°♒			13297 Jun 02 18:27	0°♊	
morning rise	13292 Jun 19 20:43	24°♒43'24		retrograde	13297 Aug 08 08:01	19°♊14'56	
	13292 Jun 27 10:05	0°♓		opposition	13297 Sep 17 18:15	9°♊40'20	-3°43'38
	13292 Aug 08 07:38	0°♈		greatest brilliancy	13297 Sep 17 20:24	9°♊38'12	-1.3m
	13292 Sep 17 15:22	0°♉		min. Earth dist.	13297 Sep 18 21:38	9°♊13'20	0.68389 AU
asc. node	13292 Oct 10 02:36	17°♉06'17			13297 Oct 22 15:29	30°♋♊	
	13292 Oct 26 21:33	0°♊		direct	13297 Oct 29 05:30	29°♋43'55	
	13292 Dec 04 21:36	0°♌			13297 Nov 04 23:32	0°♋	
	13293 Jan 13 21:37	0°♍			13298 Jan 25 10:32	0°♋	
	13293 Feb 26 03:08	0°♎			13298 Mar 16 11:36	0°♌	
	13293 Apr 21 18:43	0°♏			13298 Apr 29 13:02	0°♓	
retrograde	13293 May 30 22:51	8°♏59'43		asc. node	13298 Jun 01 03:49	23°♓52'40	
min. Earth dist.	13293 Jul 03 03:51	1°♏40'03	0.57955 AU		13298 Jun 09 06:31	0°♈	
	13293 Jul 07 10:43	30°♋♓			13298 Jul 18 00:48	0°♉	
opposition	13293 Jul 09 11:52	29°♓12'03	1°35'37	evening set	13298 Aug 21 23:04	27°♉39'07	
greatest brilliancy	13293 Jul 09 03:17	29°♓20'25	-1.8m		13298 Aug 24 22:02	0°♊	
direct	13293 Aug 15 13:05	20°♓48'50			13298 Oct 01 21:48	0°♌	
desc. node	13293 Aug 16 04:40	20°♓49'00					
	13293 Sep 27 21:47	0°♏		conjunction	13298 Nov 01 21:35	23°♌56'27	1°06'05
	13293 Nov 30 09:11	0°♋		minimum elong	13298 Nov 01 22:10	23°♌57'34	1°06'50
	13294 Jan 21 21:26	0°♊			13298 Nov 09 21:20	0°♍	
	13294 Mar 11 12:04	0°♋			13298 Dec 20 14:04	0°♎	
	13294 Apr 26 05:46	0°♌		max. Earth dist.	13298 Dec 22 03:04	1°♎06'25	2.45069 AU
evening set	13294 Apr 27 10:51	0°♌49'08		morning rise	13299 Jan 04 07:09	10°♎28'29	
max. Earth dist.	13294 May 13 04:09	11°♌33'28	2.52437 AU		13299 Feb 01 12:16	0°♏	
	13294 Jun 08 10:59	0°♓			13299 Mar 19 01:28	0°♑	
				desc. node	13299 Apr 07 22:28	12°♑29'47	
conjunction	13294 Jun 16 07:02	5°♓36'53	-0°45'12		13299 May 06 22:09	0°♊	
minimum elong	13294 Jun 16 08:56	5°♓40'18	0°46'13		13299 Jul 01 02:26	0°♋	
	13294 Jul 19 12:17	0°♈		retrograde	13299 Sep 14 00:42	22°♋40'47	
morning rise	13294 Aug 12 10:26	18°♈05'38		opposition	13299 Oct 22 20:42	13°♋52'26	-4°54'35
asc. node	13294 Aug 27 13:53	29°♈44'35		greatest brilliancy	13299 Oct 23 16:35	13°♋33'14	-1.4m
	13294 Aug 27 21:51	0°♉		min. Earth dist.	13299 Oct 27 20:55	11°♋56'29	0.63576 AU
	13294 Oct 05 07:36	0°♊		direct	13299 Dec 03 04:10	3°♋52'51	
	13294 Nov 12 12:54	0°♌			13300 Feb 18 00:16	0°♌	
	13294 Dec 21 12:38	0°♍			13300 Apr 07 01:02	0°♓	
	13295 Jan 31 10:10	0°♎		asc. node	13300 Apr 19 08:23	8°♓31'23	
	13295 Mar 16 22:01	0°♏			13300 May 18 21:56	0°♈	
	13295 May 08 23:21	0°♋			13300 Jun 27 02:09	0°♉	
desc. node	13295 Jul 04 11:03	16°♋22'47			13300 Aug 04 06:07	0°♊	
retrograde	13295 Jul 06 06:25	16°♋24'03			13300 Sep 11 14:31	0°♌	
min. Earth dist.	13295 Aug 13 07:20	7°♋29'43	0.66420 AU		13300 Oct 21 01:43	0°♍	
opposition	13295 Aug 15 23:57	6°♋25'37	-1°34'14	evening set	13300 Nov 03 04:22	9°♍41'40	
greatest brilliancy	13295 Aug 15 19:26	6°♋30'06	-1.4m		13300 Dec 01 07:18	0°♎	
	13295 Sep 03 06:45	30°♋♏					
direct	13295 Sep 25 01:02	27°♏00'36		conjunction	13300 Dec 30 14:38	20°♓27'32	0°30'34
	13295 Oct 18 15:37	0°♋		minimum elong	13300 Dec 30 16:05	20°♓30'01	0°31'31
	13295 Dec 29 12:02	0°♊			13301 Jan 13 14:44	0°♏	
	13296 Feb 19 13:43	0°♋		max. Earth dist.	13301 Jan 27 18:20	9°♏29'39	2.57961 AU
	13296 Apr 06 05:47	0°♌		morning rise	13301 Feb 19 00:37	24°♏09'51	
	13296 May 19 10:40	0°♓		desc. node	13301 Feb 23 09:13	26°♏59'58	
evening set	13296 Jun 13 10:33	18°♓15'37			13301 Feb 28 00:21	0°♋	
	13296 Jun 29 02:15	0°♈			13301 Apr 16 09:00	0°♊	
max. Earth dist.	13296 Jul 04 07:57	3°♈58'33	2.38891 AU		13301 Jun 04 21:26	0°♋	
asc. node	13296 Jul 14 04:57	11°♈31'45			13301 Jul 28 06:43	0°♌	
	13296 Aug 06 23:52	0°♉			13301 Oct 09 13:06	0°♓	
				retrograde	13301 Oct 29 16:44	2°♓16'18	
conjunction	13296 Aug 15 10:48	6°♉38'14	0°22'40		13301 Nov 17 17:28	30°♋♌	
minimum elong	13296 Aug 15 08:36	6°♉33'55	0°22'09	opposition	13301 Dec 04 08:06	24°♌49'10	-4°24'37
	13296 Sep 13 23:43	0°♊		greatest brilliancy	13301 Dec 05 17:51	24°♌18'42	-2.0m

min. Earth dist.	13301 Dec 12 17:08	21° Π 48'47	0.52304 AU	conjunction	13307 Apr 21 15:09	8° \mathcal{B} 58'34	-1°10'21
direct	13302 Jan 12 05:28	15° Π 44'47		minimum elong	13307 Apr 21 14:49	8° \mathcal{B} 58'02	1°10'54
	13302 Mar 03 16:07	0° \mathcal{E}			13307 May 23 13:23	0° Π	
asc. node	13302 Mar 07 16:34	2° \mathcal{E} 01'51		morning rise	13307 Jun 05 11:19	8° Π 39'47	
	13302 Apr 22 10:20	0° \mathcal{Q}			13307 Jul 06 16:03	0° \mathcal{E}	
	13302 Jun 03 00:15	0° \mathcal{M}			13307 Aug 18 02:00	0° \mathcal{Q}	
	13302 Jul 12 11:29	0° \mathcal{L}			13307 Sep 27 23:41	0° \mathcal{M}	
	13302 Aug 20 21:42	0° \mathcal{M}		asc. node	13307 Oct 28 21:25	23° \mathcal{M} 13'14	
	13302 Sep 30 10:23	0° \mathcal{A}			13307 Nov 06 20:20	0° \mathcal{L}	
	13302 Nov 11 16:39	0° \mathcal{Z}			13307 Dec 16 12:42	0° \mathcal{M}	
evening set	13302 Dec 24 12:07	29° \mathcal{Z} 06'16			13308 Jan 26 15:29	0° \mathcal{A}	
	13302 Dec 25 20:22	0° \approx			13308 Mar 13 05:07	0° \mathcal{Z}	
desc. node	13303 Jan 10 23:49	10° \approx 40'41		retrograde	13308 May 15 20:04	21° \mathcal{Z} 39'16	
	13303 Feb 09 16:19	0° \mathcal{H}		min. Earth dist.	13308 Jun 15 18:18	15° \mathcal{Z} 07'39	0.53099 AU
				greatest brilliancy	13308 Jun 22 11:23	12° \mathcal{Z} 35'09	-2.0m
conjunction	13303 Feb 10 17:51	0° \mathcal{H} 41'10	-0°17'01	opposition	13308 Jun 23 07:08	12° \mathcal{Z} 16'26	3°07'43
minimum elong	13303 Feb 10 17:16	0° \mathcal{H} 40'14	0°16'25	direct	13308 Jul 28 16:11	4° \mathcal{Z} 30'23	
max. Earth dist.	13303 Feb 21 21:51	7° \mathcal{H} 51'47	2.65942 AU	desc. node	13308 Sep 02 14:44	11° \mathcal{Z} 14'44	
morning rise	13303 Mar 27 12:15	29° \mathcal{H} 14'32			13308 Oct 16 07:10	0° \approx	
	13303 Mar 28 17:02	0° \mathcal{Y}			13308 Dec 10 18:26	0° \mathcal{H}	
	13303 May 15 11:25	0° \mathcal{B}			13309 Jan 30 11:26	0° \mathcal{Y}	
	13303 Jul 02 19:36	0° Π			13309 Mar 19 12:10	0° \mathcal{B}	
	13303 Aug 21 03:53	0° \mathcal{E}		evening set	13309 Apr 12 21:49	15° \mathcal{B} 50'31	
	13303 Oct 12 13:19	0° \mathcal{Q}		max. Earth dist.	13309 May 01 18:28	28° \mathcal{B} 23'03	2.57054 AU
retrograde	13304 Jan 04 16:59	29° \mathcal{Q} 25'39			13309 May 04 04:03	0° Π	
asc. node	13304 Jan 24 01:18	27° \mathcal{Q} 07'30					
opposition	13304 Feb 04 05:43	24° \mathcal{Q} 09'54	0°49'15	conjunction	13309 May 30 01:34	17° \mathcal{H} 43'23	-0°59'45
greatest brilliancy	13304 Feb 04 09:45	24° \mathcal{Q} 07'00	-2.9m	minimum elong	13309 May 30 02:59	17° \mathcal{H} 45'49	1°00'43
min. Earth dist.	13304 Feb 10 01:47	22° \mathcal{Q} 29'29	0.38775 AU		13309 Jun 16 13:20	0° \mathcal{E}	
direct	13304 Mar 07 09:35	18° \mathcal{Q} 09'38		morning rise	13309 Jul 20 21:32	24° \mathcal{E} 49'31	
	13304 Apr 20 10:10	0° \mathcal{M}			13309 Jul 27 21:32	0° \mathcal{Q}	
	13304 Jun 10 09:48	0° \mathcal{L}			13309 Sep 05 14:19	0° \mathcal{M}	
	13304 Jul 24 12:46	0° \mathcal{M}		asc. node	13309 Sep 14 11:27	6° \mathcal{M} 50'22	
	13304 Sep 06 02:51	0° \mathcal{A}			13309 Oct 14 06:14	0° \mathcal{L}	
	13304 Oct 20 15:40	0° \mathcal{Z}			13309 Nov 21 16:24	0° \mathcal{M}	
desc. node	13304 Nov 27 21:15	25° \mathcal{Z} 05'32			13309 Dec 30 21:09	0° \mathcal{A}	
	13304 Dec 05 11:05	0° \approx			13310 Feb 10 05:31	0° \mathcal{Z}	
	13305 Jan 21 07:39	0° \mathcal{H}			13310 Mar 28 06:17	0° \approx	
evening set	13305 Feb 01 01:37	6° \mathcal{H} 49'29			13310 Jun 01 14:30	0° \mathcal{H}	
	13305 Mar 09 15:46	0° \mathcal{Y}		retrograde	13310 Jun 23 17:07	2° \mathcal{H} 57'50	
max. Earth dist.	13305 Mar 15 10:45	3° \mathcal{Y} 40'09	2.68431 AU		13310 Jul 14 14:29	30° \mathcal{R} \approx	
				desc. node	13310 Jul 21 22:46	27° \approx 39'52	
conjunction	13305 Mar 17 13:40	5° \mathcal{Y} 00'50	-0°53'13	min. Earth dist.	13310 Jul 30 01:08	24° \approx 36'29	0.63856 AU
minimum elong	13305 Mar 17 12:32	4° \mathcal{Y} 59'02	0°53'11	opposition	13310 Aug 03 04:57	22° \approx 57'43	-0°28'45
	13305 Apr 25 20:10	0° \mathcal{B}		greatest brilliancy	13310 Aug 03 02:57	22° \approx 59'41	-1.5m
morning rise	13305 Apr 29 16:27	2° \mathcal{B} 27'34		direct	13310 Sep 11 07:00	13° \approx 52'24	
	13305 Jun 11 09:12	0° Π			13310 Nov 11 06:57	0° \mathcal{H}	
	13305 Jul 27 00:27	0° \mathcal{E}			13311 Jan 08 23:57	0° \mathcal{Y}	
	13305 Sep 09 16:42	0° \mathcal{Q}			13311 Feb 28 06:26	0° \mathcal{B}	
	13305 Oct 23 14:36	0° \mathcal{M}			13311 Apr 15 11:14	0° Π	
	13305 Dec 06 15:08	0° \mathcal{L}		evening set	13311 May 25 20:02	27° \mathcal{H} 59'39	
asc. node	13305 Dec 11 03:35	3° \mathcal{L} 01'07			13311 May 28 15:22	0° \mathcal{E}	
	13306 Jan 23 08:19	0° \mathcal{M}		max. Earth dist.	13311 Jun 08 22:13	8° \mathcal{E} 08'44	2.44271 AU
retrograde	13306 Mar 24 17:06	20° \mathcal{M} 28'19			13311 Jul 08 10:20	0° \mathcal{Q}	
min. Earth dist.	13306 Apr 19 10:14	16° \mathcal{M} 06'34	0.39645 AU				
greatest brilliancy	13306 Apr 24 21:15	14° \mathcal{M} 27'56	-2.8m	conjunction	13311 Jul 21 10:18	9° \mathcal{Q} 51'48	-0°08'10
opposition	13306 Apr 26 11:00	13° \mathcal{M} 59'16	6°41'01	minimum elong	13311 Jul 21 11:00	9° \mathcal{Q} 53'08	0°09'01
direct	13306 May 26 15:40	8° \mathcal{M} 30'33		behind sun begin	13311 Jul 20 12:56	9° \mathcal{Q} 11'03	
	13306 Aug 02 08:27	0° \mathcal{A}		behind sun end	13311 Jul 22 09:04	10° \mathcal{Q} 35'16	
	13306 Sep 25 03:32	0° \mathcal{Z}		asc. node	13311 Aug 02 00:24	18° \mathcal{Q} 45'27	
desc. node	13306 Oct 16 03:42	12° \mathcal{Z} 29'32			13311 Aug 16 12:04	0° \mathcal{M}	
	13306 Nov 14 03:25	0° \approx			13311 Sep 23 15:02	0° \mathcal{L}	
	13307 Jan 02 04:21	0° \mathcal{H}		morning rise	13311 Sep 27 20:42	3° \mathcal{L} 21'04	
	13307 Feb 19 12:06	0° \mathcal{Y}			13311 Oct 31 15:28	0° \mathcal{M}	
evening set	13307 Mar 08 13:21	10° \mathcal{Y} 44'03			13311 Dec 09 10:54	0° \mathcal{A}	
max. Earth dist.	13307 Apr 06 17:21	29° \mathcal{Y} 19'58	2.65397 AU		13312 Jan 18 23:54	0° \mathcal{Z}	
	13307 Apr 07 18:13	0° \mathcal{B}			13312 Mar 02 08:04	0° \approx	

	13312 Apr 19 09:39	0° H		asc. node	13317 Mar 24 05:27	2° G 31'22	
desc. node	13312 Jun 07 23:50	25° H 10'09			13317 May 03 16:20	0° Q	
	13312 Jun 20 17:38	0° Y			13317 Jun 12 19:50	0° M	
retrograde	13312 Jul 27 01:09	6° Y 53'02			13317 Jul 21 13:16	0° L	
	13312 Aug 29 07:46	30° R H			13317 Aug 29 09:40	0° M	
opposition	13312 Sep 05 18:02	27° H 06'20	-3°00'15		13317 Oct 08 09:22	0° J	
min. Earth dist.	13312 Sep 05 09:14	27° H 15'02	0.68419 AU		13317 Nov 19 03:30	0° Z	
greatest brilliancy	13312 Sep 05 15:45	27° H 08'35	-1.3m	evening set	13317 Dec 06 13:09	12° Z 05'56	
direct	13312 Oct 16 20:23	17° H 19'10			13318 Jan 01 21:22	0° X	
	13312 Dec 08 10:08	0° Y					
	13313 Feb 05 08:33	0° B		conjunction	13318 Jan 26 12:10	16° X 20'07	0°00'42
	13313 Mar 25 14:03	0° II		minimum elong	13318 Jan 26 12:13	16° X 20'12	0°01'29
	13313 May 08 04:25	0° G		behind sun begin	13318 Jan 25 16:14	15° X 47'23	
	13313 Jun 17 20:06	0° Q		behind sun end	13318 Jan 27 08:13	16° X 53'00	
asc. node	13313 Jun 18 18:30	0° Q 42'30		desc. node	13318 Jan 27 16:28	17° X 06'33	
evening set	13313 Jul 23 20:57	27° Q 50'19		max. Earth dist.	13318 Feb 12 18:58	27° X 36'41	2.63471 AU
	13313 Jul 26 15:02	0° M			13318 Feb 16 11:31	0° H	
	13313 Sep 02 12:42	0° L		morning rise	13318 Mar 13 21:02	16° H 17'24	
					13318 Apr 04 13:00	0° Y	
conjunction	13313 Oct 03 22:13	24° L 51'11	1°01'15		13318 May 22 18:53	0° B	
minimum elong	13313 Oct 03 19:14	24° L 45'19	1°01'33		13318 Jul 11 09:57	0° II	
	13313 Oct 10 11:31	0° M			13318 Sep 02 01:06	0° G	
	13313 Nov 18 08:27	0° J			13318 Nov 09 00:21	0° Q	
max. Earth dist.	13313 Nov 25 20:47	5° J 40'05	2.39397 AU	retrograde	13318 Dec 06 03:13	4° Q 03'14	
morning rise	13313 Dec 13 04:48	18° J 33'21			13318 Dec 31 19:47	30° R G	
	13313 Dec 28 21:57	0° Z		opposition	13319 Jan 07 15:23	27° G 53'45	-2°06'14
	13314 Feb 09 18:57	0° X		greatest brilliancy	13319 Jan 08 10:25	27° G 38'25	-2.5m
	13314 Mar 27 14:30	0° H		min. Earth dist.	13319 Jan 16 00:55	25° G 11'56	0.43576 AU
desc. node	13314 Apr 25 17:19	17° H 50'58		asc. node	13319 Feb 09 13:35	20° G 28'12	
	13314 May 16 17:08	0° Y		direct	13319 Feb 12 01:45	20° G 25'29	
	13314 Jul 17 13:52	0° B			13319 Mar 23 02:46	0° Q	
retrograde	13314 Aug 31 02:44	9° B 31'06			13319 May 13 19:44	0° M	
opposition	13314 Oct 09 17:48	0° B 21'33	-4°35'13		13319 Jun 25 09:01	0° L	
greatest brilliancy	13314 Oct 10 06:02	0° B 09'37	-1.3m		13319 Aug 05 14:25	0° M	
	13314 Oct 10 15:53	30° R Y			13319 Sep 16 11:49	0° J	
min. Earth dist.	13314 Oct 13 05:47	28° Y 59'39	0.66265 AU		13319 Oct 29 20:31	0° Z	
direct	13314 Nov 20 08:00	20° Y 18'56			13319 Dec 13 20:29	0° X	
	13315 Jan 03 02:13	0° B		desc. node	13319 Dec 15 11:10	1° X 03'23	
	13315 Mar 02 07:22	0° II		evening set	13320 Jan 18 11:09	23° X 06'27	
	13315 Apr 17 01:03	0° G			13320 Jan 29 05:02	0° H	
asc. node	13315 May 06 21:25	14° G 09'23					
	13315 May 28 06:36	0° Q		conjunction	13320 Mar 03 23:07	22° H 08'26	-0°41'06
	13315 Jul 06 04:47	0° M		minimum elong	13320 Mar 03 22:02	22° H 06'42	0°40'51
	13315 Aug 13 04:36	0° L		max. Earth dist.	13320 Mar 06 19:40	23° H 57'11	2.68133 AU
	13315 Sep 20 08:22	0° M			13320 Mar 16 08:31	0° Y	
evening set	13315 Oct 09 06:14	14° M 36'13		morning rise	13320 Apr 16 07:58	19° Y 37'36	
	13315 Oct 29 13:41	0° J			13320 May 02 16:28	0° B	
	13315 Dec 09 12:52	0° Z			13320 Jun 18 18:22	0° II	
					13320 Aug 04 10:20	0° G	
conjunction	13315 Dec 11 11:23	1° Z 22'57	0°48'33		13320 Sep 19 20:05	0° Q	
minimum elong	13315 Dec 11 13:35	1° Z 26'52	0°49'33		13320 Nov 05 17:23	0° M	
max. Earth dist.	13316 Jan 16 17:45	26° Z 40'17	2.53430 AU		13320 Dec 26 15:42	0° L	
	13316 Jan 21 15:08	0° X		asc. node	13320 Dec 27 20:05	0° L 37'03	
morning rise	13316 Feb 03 20:01	8° X 53'23		retrograde	13321 Feb 24 02:10	18° L 51'00	
	13316 Mar 06 23:44	0° H		min. Earth dist.	13321 Mar 23 13:24	14° L 25'08	0.36643 AU
desc. node	13316 Mar 12 04:58	3° H 21'24		opposition	13321 Mar 26 06:57	13° L 40'52	5°57'09
	13316 Apr 23 17:03	0° Y		greatest brilliancy	13321 Mar 25 15:12	13° L 51'32	-3.0m
	13316 Jun 13 13:52	0° B		direct	13321 Apr 24 09:55	8° L 50'15	
	13316 Aug 11 04:40	0° II			13321 Jun 28 05:58	0° M	
retrograde	13316 Oct 10 05:18	15° II 48'37			13321 Aug 18 16:40	0° J	
opposition	13316 Nov 16 08:26	7° II 43'42	-4°54'49		13321 Oct 05 17:40	0° Z	
greatest brilliancy	13316 Nov 17 15:09	7° II 14'54	-1.7m	desc. node	13321 Nov 01 14:17	16° Z 52'49	
min. Earth dist.	13316 Nov 23 14:06	5° II 01'35	0.57408 AU		13321 Nov 22 12:15	0° X	
	13316 Dec 09 21:55	30° R B			13322 Jan 09 11:23	0° H	
direct	13316 Dec 26 13:42	28° B 06'26		evening set	13322 Feb 22 21:53	27° H 51'35	
	13317 Jan 12 22:13	0° II			13322 Feb 26 07:26	0° Y	
	13317 Mar 20 04:05	0° G		max. Earth dist.	13322 Mar 28 22:48	19° Y 25'03	2.67245 AU

conjunction	13322 Apr 07 18:35	25° Υ 41'46	-1°06'26		13327 Mar 11 21:39	0° \approx	
minimum elong	13322 Apr 07 17:48	25° Υ 40'31	1°06'46		13327 May 01 06:53	0° H	
	13322 Apr 14 11:30	0° B		desc. node	13327 Jun 25 15:14	22° H 07'16	
morning rise	13322 May 21 11:15	24° B 02'29		retrograde	13327 Jul 14 20:20	24° H 17'26	
	13322 May 30 12:06	0° II		min. Earth dist.	13327 Aug 22 18:34	15° H 06'37	0.67412 AU
	13322 Jul 14 02:33	0° E		opposition	13327 Aug 24 15:22	14° H 22'13	-2°08'33
	13322 Aug 26 05:10	0° Ω		greatest brilliancy	13327 Aug 24 10:51	14° H 26'42	-1.3m
	13322 Oct 06 22:39	0° M		direct	13327 Oct 04 03:15	4° H 48'17	
asc. node	13322 Nov 14 17:59	28° M 31'42			13327 Dec 23 05:55	0° Υ	
	13322 Nov 16 17:48	0° E			13328 Feb 15 02:09	0° B	
	13322 Dec 27 16:04	0° M			13328 Apr 02 06:22	0° II	
	13323 Feb 09 08:58	0° A			13328 May 15 14:52	0° E	
	13323 Apr 14 21:53	0° B			13328 Jun 25 07:02	0° Ω	
retrograde	13323 Apr 28 16:30	1° B 21'48		evening set	13328 Jun 27 11:55	1° Ω 40'12	
	13323 May 12 04:13	30° R A		asc. node	13328 Jul 05 12:22	7° Ω 47'02	
min. Earth dist.	13323 May 27 04:02	25° A 44'40	0.47652 AU		13328 Aug 03 03:57	0° M	
greatest brilliancy	13323 Jun 03 03:05	23° A 15'01	-2.3m	max. Earth dist.	13328 Aug 07 03:06	3° M 06'46	2.36616 AU
opposition	13323 Jun 04 11:32	22° A 45'47	4°46'28				
direct	13323 Jul 07 22:02	15° A 47'10		conjunction	13328 Sep 02 07:16	23° M 47'50	0°39'39
	13323 Aug 31 09:44	0° B		minimum elong	13328 Sep 02 03:32	23° M 40'26	0°39'24
desc. node	13323 Sep 19 23:32	9° B 08'51			13328 Sep 10 02:51	0° E	
	13323 Oct 29 06:42	0° \approx			13328 Oct 18 01:19	0° M	
	13323 Dec 20 04:52	0° H		morning rise	13328 Nov 15 16:57	22° M 15'19	
	13324 Feb 07 17:24	0° Υ			13328 Nov 25 20:26	0° A	
	13324 Mar 26 08:47	0° B			13329 Jan 05 07:53	0° B	
evening set	13324 Mar 29 09:15	1° B 56'38			13329 Feb 17 06:01	0° \approx	
max. Earth dist.	13324 Apr 20 22:33	16° B 38'05	2.60933 AU		13329 Apr 04 13:28	0° H	
	13324 May 11 00:48	0° II		desc. node	13329 May 12 10:53	22° H 16'21	
					13329 May 26 20:05	0° Υ	
conjunction	13324 May 13 19:27	1° II 52'07	-1°07'56	retrograde	13329 Aug 17 02:04	26° Υ 52'39	
minimum elong	13324 May 13 20:08	1° II 53'17	1°08'46	opposition	13329 Sep 26 07:00	17° Υ 26'03	-4°05'24
	13324 Jun 23 15:48	0° E		greatest brilliancy	13329 Sep 26 12:24	17° Υ 20'44	-1.3m
morning rise	13324 Jun 30 23:47	5° E 10'49		min. Earth dist.	13329 Sep 28 06:41	16° Υ 39'13	0.67912 AU
	13324 Aug 04 08:44	0° Ω		direct	13329 Nov 06 21:10	7° Υ 26'15	
	13324 Sep 13 11:03	0° M			13330 Jan 18 19:02	0° B	
asc. node	13324 Oct 01 07:25	13° M 38'54			13330 Mar 11 18:15	0° II	
	13324 Oct 22 11:43	0° E			13330 Apr 25 07:51	0° E	
	13324 Nov 30 05:52	0° M		asc. node	13330 May 23 10:57	20° E 25'14	
	13325 Jan 08 20:24	0° A			13330 Jun 05 05:31	0° Ω	
	13325 Feb 20 02:22	0° B			13330 Jul 14 01:17	0° M	
	13325 Apr 10 14:47	0° \approx			13330 Aug 20 23:19	0° E	
retrograde	13325 Jun 09 11:29	18° \approx 24'24		evening set	13330 Sep 09 12:23	15° E 28'23	
min. Earth dist.	13325 Jul 13 20:34	10° \approx 41'27	0.60286 AU	greatest brilliancy	13330 Sep 20 11:18	24° E 05'55	1.1m
opposition	13325 Jul 19 10:48	8° \approx 29'46	0°46'56		13330 Sep 28 00:10	0° M	
greatest brilliancy	13325 Jul 19 07:04	8° \approx 33'25	-1.7m		13330 Nov 06 01:02	0° A	
desc. node	13325 Aug 07 09:50	2° \approx 07'53					
	13325 Aug 21 02:13	30° R B		conjunction	13330 Nov 17 22:19	8° A 54'11	1°02'16
direct	13325 Aug 26 07:29	29° B 49'47		minimum elong	13330 Nov 18 00:08	8° A 57'34	1°03'10
	13325 Aug 31 15:16	0° \approx			13330 Dec 16 18:53	0° B	
	13325 Nov 24 08:14	0° H		max. Earth dist.	13331 Jan 02 03:51	11° B 38'10	2.48179 AU
	13326 Jan 17 11:47	0° Υ		morning rise	13331 Jan 16 16:30	21° B 45'35	
	13326 Mar 07 15:10	0° B			13331 Jan 28 17:10	0° \approx	
	13326 Apr 22 13:02	0° II			13331 Mar 15 02:41	0° H	
evening set	13326 May 07 20:11	10° II 25'26		desc. node	13331 Mar 29 23:47	9° H 27'30	
max. Earth dist.	13326 May 22 06:33	20° II 27'10	2.49644 AU		13331 May 02 10:00	0° Υ	
	13326 Jun 04 18:11	0° E			13331 Jun 24 11:20	0° B	
					13331 Sep 10 10:44	0° II	
conjunction	13326 Jun 28 15:58	17° E 19'44	-0°33'45	retrograde	13331 Sep 24 00:33	1° II 02'52	
minimum elong	13326 Jun 28 17:50	17° E 23'09	0°34'44		13331 Oct 06 22:38	30° R B	
	13326 Jul 15 17:32	0° Ω		opposition	13331 Nov 01 08:01	22° B 28'11	-4°59'45
asc. node	13326 Aug 18 19:43	25° Ω 58'40		greatest brilliancy	13331 Nov 02 08:10	22° B 05'04	-1.5m
	13326 Aug 24 00:20	0° M		min. Earth dist.	13331 Nov 07 04:21	20° B 14'06	0.61644 AU
morning rise	13326 Aug 28 12:50	3° M 30'50		direct	13331 Dec 12 09:07	12° B 33'30	
	13326 Oct 01 07:23	0° E			13332 Feb 09 22:26	0° II	
	13326 Nov 08 10:28	0° M			13332 Mar 31 16:46	0° E	
	13326 Dec 17 07:42	0° A		asc. node	13332 Apr 09 17:33	6° E 05'09	
	13327 Jan 27 00:13	0° B			13332 May 13 06:01	0° Ω	

	13332 Jun 21 16:38	0°♎	morning rise	13337 May 07 10:49	10°♊26'58	
	13332 Jul 30 00:08	0°♌		13337 Jun 06 12:53	0°♊	
	13332 Sep 06 11:45	0°♍		13337 Jul 21 18:21	0°♋	
	13332 Oct 16 02:18	0°♊		13337 Sep 03 18:59	0°♌	
evening set	13332 Nov 16 03:41	22°♊39'22		13337 Oct 16 17:34	0°♎	
	13332 Nov 26 11:10	0°♊		13337 Nov 28 03:53	0°♌	
	13333 Jan 08 21:15	0°♋	asc. node	13337 Dec 01 10:43	2°♌18'37	
				13338 Jan 10 21:59	0°♍	
conjunction	13333 Jan 09 21:22	0°♋40'40 0°19'33		13338 Mar 06 05:13	0°♊	
minimum elong	13333 Jan 09 22:17	0°♋42'12 0°20'28	retrograde	13338 Apr 07 12:14	6°♊54'00	
max. Earth dist.	13333 Feb 02 21:59	16°♋41'15 2.60165 AU	min. Earth dist.	13338 May 03 20:04	2°♊09'59	0.42265 AU
desc. node	13333 Feb 13 10:48	23°♋35'47	greatest brilliancy	13338 May 10 04:52	0°♊06'07	-2.6m
	13333 Feb 23 07:14	0°♋		13338 May 10 12:18	30°♍	
morning rise	13333 Feb 27 14:12	2°♋46'20	opposition	13338 May 11 20:47	29°♍33'22	6°14'13
	13333 Apr 11 11:49	0°♎	direct	13338 Jun 12 06:21	23°♍31'46	
	13333 May 30 10:27	0°♊		13338 Jul 16 02:58	0°♊	
	13333 Jul 21 01:19	0°♊		13338 Sep 17 05:11	0°♊	
	13333 Sep 18 22:27	0°♋	desc. node	13338 Oct 06 09:50	10°♊49'37	
retrograde	13333 Nov 10 23:47	13°♋06'04		13338 Nov 08 05:04	0°♋	
opposition	13333 Dec 15 15:36	6°♋03'50 -3°50'02		13338 Dec 28 01:34	0°♋	
greatest brilliancy	13333 Dec 16 23:43	5°♋35'45 -2.2m		13339 Feb 14 18:08	0°♎	
min. Earth dist.	13333 Dec 24 09:49	3°♋00'58 0.49243 AU	evening set	13339 Mar 16 09:53	18°♎39'55	
	13334 Jan 03 08:17	30°♋		13339 Apr 03 03:22	0°♊	
direct	13334 Jan 22 13:35	27°♋26'10	max. Earth dist.	13339 Apr 12 02:56	5°♊48'05	2.64036 AU
	13334 Feb 11 04:20	0°♋				
asc. node	13334 Feb 26 03:35	4°♋52'11	conjunction	13339 Apr 29 19:21	17°♊20'32 -1°10'49	
	13334 Apr 13 22:59	0°♌	minimum elong	13339 Apr 29 19:21	17°♊20'33 1°11'30	
	13334 May 27 04:43	0°♎		13339 May 18 21:32	0°♊	
	13334 Jul 06 08:21	0°♌	morning rise	13339 Jun 14 13:53	18°♊03'48	
	13334 Aug 15 05:02	0°♍		13339 Jul 01 20:17	0°♋	
	13334 Sep 25 02:09	0°♊		13339 Aug 13 00:06	0°♌	
	13334 Nov 06 15:26	0°♊		13339 Sep 22 14:27	0°♎	
	13334 Dec 21 00:49	0°♋	asc. node	13339 Oct 19 04:01	20°♎06'37	
desc. node	13335 Jan 01 01:15	7°♋16'29		13339 Nov 01 02:44	0°♌	
evening set	13335 Jan 02 23:08	8°♋31'50		13339 Dec 10 08:51	0°♍	
	13335 Feb 05 00:08	0°♋		13340 Jan 19 17:06	0°♊	
				13340 Mar 03 20:51	0°♊	
conjunction	13335 Feb 19 00:37	8°♋59'47 -0°26'33		13340 May 06 16:19	0°♋	
minimum elong	13335 Feb 18 23:47	8°♋58'27 0°26'05	retrograde	13340 May 25 04:51	2°♋17'11	
max. Earth dist.	13335 Feb 27 02:05	14°♋08'45 2.66968 AU		13340 Jun 12 01:13	30°♋	
	13335 Mar 24 01:01	0°♎	min. Earth dist.	13340 Jun 26 09:51	25°♊18'34	0.55871 AU
morning rise	13335 Apr 04 03:19	7°♎00'59	opposition	13340 Jul 03 08:05	22°♊38'32	2°13'23
	13335 May 10 14:45	0°♊	greatest brilliancy	13340 Jul 02 19:05	22°♊51'03	-1.9m
	13335 Jun 27 10:00	0°♊	direct	13340 Aug 08 16:56	14°♊30'48	
	13335 Aug 14 13:45	0°♋	desc. node	13340 Aug 23 20:13	15°♊50'57	
	13335 Oct 02 23:19	0°♌		13340 Oct 06 09:49	0°♋	
	13335 Nov 26 18:55	0°♎		13340 Dec 04 15:37	0°♋	
asc. node	13336 Jan 14 10:25	15°♎56'46		13341 Jan 25 08:28	0°♎	
retrograde	13336 Jan 23 04:44	16°♎25'39		13341 Mar 14 17:54	0°♊	
opposition	13336 Feb 21 20:23	11°♎29'49 2°53'23	evening set	13341 Apr 21 14:52	24°♊42'59	
greatest brilliancy	13336 Feb 22 02:41	11°♎25'34 -3.0m		13341 Apr 29 11:57	0°♊	
min. Earth dist.	13336 Feb 25 02:31	10°♎37'08 0.37085 AU	max. Earth dist.	13341 May 08 15:08	6°♊11'24	2.54585 AU
direct	13336 Mar 23 06:34	6°♎12'07				
	13336 May 29 13:36	0°♌	conjunction	13341 Jun 09 03:03	28°♊04'35 -0°52'12	
	13336 Jul 16 10:49	0°♍	minimum elong	13341 Jun 09 04:47	28°♊07'39 0°53'13	
	13336 Aug 30 14:31	0°♊		13341 Jun 11 20:07	0°♋	
	13336 Oct 15 00:21	0°♊		13341 Jul 23 01:31	0°♌	
desc. node	13336 Nov 18 01:00	22°♊04'58	morning rise	13341 Aug 02 16:07	7°♌56'17	
	13336 Nov 30 08:52	0°♋		13341 Aug 31 15:04	0°♎	
	13337 Jan 16 13:06	0°♋	asc. node	13341 Sep 04 15:49	3°♎06'41	
evening set	13337 Feb 09 03:16	14°♋54'14		13341 Oct 09 03:47	0°♌	
	13337 Mar 05 00:42	0°♎		13341 Nov 16 10:58	0°♍	
max. Earth dist.	13337 Mar 20 10:33	9°♎45'36 2.68245 AU		13341 Dec 25 11:52	0°♊	
				13342 Feb 04 11:36	0°♊	
conjunction	13337 Mar 25 06:40	12°♎49'53 -0°59'03		13342 Mar 21 09:34	0°♋	
minimum elong	13337 Mar 25 05:37	12°♎48'13 0°59'09		13342 May 16 02:58	0°♋	
	13337 Apr 21 04:44	0°♊	retrograde	13342 Jul 01 12:01	11°♋13'54	

desc. node	13342 Jul 12 03:24	10° H 28'21		asc. node	13347 Apr 27 06:57	11° O 10'59	
min. Earth dist.	13342 Aug 07 19:36	2° H 33'55	0.65393 AU		13347 May 22 23:19	0° O	
opposition	13342 Aug 11 04:08	1° H 14'09	-1°08'20		13347 Jul 01 01:25	0° H	
greatest brilliancy	13342 Aug 11 00:10	1° H 18'05	-1.4m		13347 Aug 08 03:21	0° O	
	13342 Aug 14 07:32	30° K			13347 Sep 15 08:58	0° M	
direct	13342 Sep 19 20:01	21° \approx 57'18		evening set	13347 Oct 24 08:33	29° M 45'17	
	13342 Oct 30 11:33	0° H			13347 Oct 24 16:25	0° J	
	13343 Jan 02 19:31	0° Y			13347 Dec 04 17:34	0° O	
	13343 Feb 23 02:56	0° O					
	13343 Apr 10 15:27	0° II		conjunction	13347 Dec 23 05:35	13° O 02'52	0°38'26
	13343 May 23 21:16	0° O		minimum elong	13347 Dec 23 07:25	13° O 06'04	0°39'27
evening set	13343 Jun 06 02:48	9° O 33'53			13348 Jan 16 21:11	0° \approx	
max. Earth dist.	13343 Jun 22 03:31	21° O 22'57	2.41215 AU	max. Earth dist.	13348 Jan 23 20:37	4° \approx 42'47	2.56025 AU
	13343 Jul 03 15:23	0° O		morning rise	13348 Feb 13 06:05	18° \approx 17'20	
asc. node	13343 Jul 23 05:37	14° O 56'22		desc. node	13348 Mar 02 04:28	29° \approx 59'40	
					13348 Mar 02 04:41	0° H	
conjunction	13343 Aug 05 02:59	24° O 54'53	0°09'10		13348 Apr 18 15:27	0° Y	
minimum elong	13343 Aug 05 02:11	24° O 53'21	0°08'29		13348 Jun 07 14:50	0° O	
behind sun begin	13343 Aug 04 02:03	24° O 06'26			13348 Aug 01 15:25	0° II	
behind sun end	13343 Aug 06 02:20	25° O 40'17		retrograde	13348 Oct 20 21:12	25° II 24'06	
	13343 Aug 11 15:31	0° H		opposition	13348 Nov 26 06:01	17° II 39'01	-4°40'54
	13343 Sep 18 16:51	0° O		greatest brilliancy	13348 Nov 27 15:06	17° II 08'37	-1.9m
morning rise	13343 Oct 16 05:00	21° O 45'52		min. Earth dist.	13348 Dec 04 04:34	14° II 44'41	0.54678 AU
	13343 Oct 26 16:13	0° M		direct	13349 Jan 04 20:03	8° II 17'37	
	13343 Dec 04 10:55	0° J			13349 Mar 11 00:46	0° O	
	13344 Jan 13 22:05	0° O		asc. node	13349 Mar 14 14:47	2° O 01'48	
	13344 Feb 26 00:21	0° \approx			13349 Apr 26 22:14	0° O	
	13344 Apr 13 04:30	0° H			13349 Jun 06 19:25	0° H	
desc. node	13344 May 29 03:32	25° H 05'58			13349 Jul 15 21:42	0° O	
	13344 Jun 08 18:14	0° Y			13349 Aug 24 00:31	0° M	
retrograde	13344 Aug 03 14:01	14° Y 27'51			13349 Oct 03 06:04	0° J	
opposition	13344 Sep 13 04:26	4° Y 47'27	-3°26'46		13349 Nov 14 05:17	0° O	
greatest brilliancy	13344 Sep 13 04:23	4° Y 47'30	-1.2m	evening set	13349 Dec 16 23:45	22° O 30'31	
min. Earth dist.	13344 Sep 13 15:39	4° Y 36'23	0.68537 AU		13349 Dec 28 03:14	0° \approx	
	13344 Sep 25 22:09	30° K		desc. node	13350 Jan 17 18:11	13° \approx 40'36	
direct	13344 Oct 24 13:02	24° H 54'42					
	13344 Nov 24 19:38	0° Y		conjunction	13350 Feb 04 07:53	25° \approx 09'26	-0°09'52
	13345 Jan 30 00:18	0° O		minimum elong	13350 Feb 04 07:32	25° \approx 08'52	0°09'12
	13345 Mar 20 07:02	0° II		behind sun begin	13350 Feb 03 15:17	24° \approx 42'30	
	13345 May 03 05:00	0° O		behind sun end	13350 Feb 04 23:47	25° \approx 35'13	
asc. node	13345 Jun 09 03:09	27° O 06'51			13350 Feb 11 19:16	0° H	
	13345 Jun 12 22:47	0° O		max. Earth dist.	13350 Feb 18 05:06	4° H 08'02	2.64935 AU
	13345 Jul 21 17:56	0° H		morning rise	13350 Mar 21 17:34	24° H 15'32	
evening set	13345 Aug 09 10:12	14° H 44'55			13350 Mar 30 19:25	0° Y	
	13345 Aug 28 15:15	0° O			13350 May 17 17:56	0° O	
	13345 Oct 05 14:01	0° M			13350 Jul 05 13:46	0° II	
					13350 Aug 25 02:05	0° O	
conjunction	13345 Oct 21 05:44	12° M 11'55	1°06'04		13350 Oct 20 04:06	0° O	
minimum elong	13345 Oct 21 04:52	12° M 10'13	1°06'41	retrograde	13350 Dec 22 02:38	18° O 10'34	
	13345 Nov 13 11:26	0° J		opposition	13351 Jan 22 11:46	12° O 31'45	-0°35'35
max. Earth dist.	13345 Dec 13 11:48	22° J 20'07	2.42506 AU	greatest brilliancy	13351 Jan 22 17:01	12° O 27'45	-2.8m
	13345 Dec 24 01:15	0° O		min. Earth dist.	13351 Jan 29 19:21	10° O 18'53	0.40724 AU
morning rise	13345 Dec 26 18:16	1° O 56'56		asc. node	13351 Jan 31 00:01	9° O 58'02	
	13346 Feb 04 21:17	0° \approx		direct	13351 Feb 25 03:42	5° O 51'16	
	13346 Mar 22 10:55	0° H			13351 May 02 16:38	0° H	
desc. node	13346 Apr 15 18:10	15° H 09'22			13351 Jun 17 09:34	0° O	
	13346 May 10 16:30	0° Y			13351 Jul 29 21:55	0° M	
	13346 Jul 06 18:02	0° O			13351 Sep 10 14:20	0° J	
retrograde	13346 Sep 08 11:04	17° O 27'38			13351 Oct 24 12:11	0° O	
opposition	13346 Oct 17 16:52	8° O 29'12	-4°47'49	desc. node	13351 Dec 05 14:36	27° O 51'29	
greatest brilliancy	13346 Oct 18 09:19	8° O 13'15	-1.4m		13351 Dec 08 21:28	0° \approx	
min. Earth dist.	13346 Oct 22 01:10	6° O 48'08	0.64915 AU		13352 Jan 24 11:38	0° H	
	13346 Nov 12 19:09	30° K		evening set	13352 Jan 26 21:15	1° H 31'51	
direct	13346 Nov 28 04:50	28° Y 27'33					
	13346 Dec 14 08:21	0° O		conjunction	13352 Mar 11 18:19	0° Y 01'40	-0°48'32
	13347 Feb 23 08:21	0° II		minimum elong	13352 Mar 11 17:11	29° H 59'52	0°48'25
	13347 Apr 11 08:23	0° O			13352 Mar 11 17:16	0° Y	

max. Earth dist.	13352 Mar 11 19:17	0°Υ03'12	2.68404 AU	retrograde	13357 Jun 17 16:40	27°≈21'17	
morning rise	13352 Apr 23 22:27	27°Υ26'00		min. Earth dist.	13357 Jul 23 04:48	19°≈16'23	0.62389 AU
	13352 Apr 27 23:09	0°Ϣ		opposition	13357 Jul 28 00:11	17°≈22'38	0°01'31
	13352 Jun 13 17:46	0°Π		greatest brilliancy	13357 Jul 28 00:07	17°≈22'43	-1.6m
	13352 Jul 29 19:40	0°Ϣ		desc. node	13357 Jul 28 15:15	17°≈07'49	
	13352 Sep 13 04:32	0°Ω		direct	13357 Sep 04 14:16	8°≈27'43	
	13352 Oct 28 04:22	0°Π			13357 Nov 16 08:21	0°Ϣ	
	13352 Dec 13 04:39	0°⊠			13358 Jan 11 20:59	0°Υ	
asc. node	13352 Dec 18 04:11	3°⊠06'21			13358 Mar 02 16:33	0°Ϣ	
	13353 Feb 06 14:15	0°Π			13358 Apr 17 19:34	0°Π	
retrograde	13353 Mar 12 20:29	7°Π27'42		evening set	13358 May 17 17:52	20°Π34'07	
min. Earth dist.	13353 Apr 07 18:58	3°Π12'58	0.37953 AU		13358 May 31 01:34	0°Ϣ	
greatest brilliancy	13353 Apr 12 00:30	2°Π00'52	-2.9m	max. Earth dist.	13358 May 31 12:04	0°Ϣ18'47	2.46725 AU
opposition	13353 Apr 13 07:03	1°Π39'04	6°40'21				
	13353 Apr 19 06:19	30°Ϣ⊠		conjunction	13358 Jul 10 23:53	0°Ω00'44	-0°20'00
direct	13353 May 12 17:22	26°⊠32'51		minimum elong	13358 Jul 11 01:19	0°Ω03'24	0°20'56
	13353 Jun 05 10:41	0°Π			13358 Jul 10 23:30	0°Ω	
	13353 Aug 09 12:23	0°Ϣ		asc. node	13358 Aug 09 02:19	22°Ω11'18	
	13353 Sep 29 03:19	0°Ϣ			13358 Aug 19 04:16	0°Π	
desc. node	13353 Oct 22 19:29	14°Ϣ29'01		morning rise	13358 Sep 14 00:44	20°Π15'14	
	13353 Nov 17 00:20	0°≈			13358 Sep 26 09:12	0°⊠	
	13354 Jan 04 12:40	0°Ϣ			13358 Nov 03 10:20	0°Π	
	13354 Feb 21 15:08	0°Υ			13358 Dec 12 05:34	0°Ϣ	
evening set	13354 Mar 02 16:49	5°Υ42'31			13359 Jan 21 18:14	0°Ϣ	
max. Earth dist.	13354 Apr 03 00:37	25°Υ36'36	2.66321 AU		13359 Mar 06 04:59	0°≈	
	13354 Apr 09 20:47	0°Ϣ			13359 Apr 23 22:00	0°Ϣ	
				desc. node	13359 Jun 15 17:50	24°Ϣ57'40	
conjunction	13354 Apr 15 14:51	3°Ϣ42'25	-1°09'13		13359 Jul 03 16:03	0°Υ	
minimum elong	13354 Apr 15 14:19	3°Ϣ41'34	1°09'42	retrograde	13359 Jul 22 09:16	2°Υ02'16	
	13354 May 25 18:53	0°Π			13359 Aug 09 02:19	30°ϢϢ	
morning rise	13354 May 29 20:55	2°Π43'01		min. Earth dist.	13359 Aug 31 03:29	22°Ϣ35'56	0.68105 AU
	13354 Jul 09 03:28	0°Ϣ		opposition	13359 Sep 01 04:21	22°Ϣ11'19	-2°40'02
	13354 Aug 20 21:07	0°Ω		greatest brilliancy	13359 Sep 01 00:44	22°Ϣ14'53	-1.3m
	13354 Oct 01 03:40	0°Π		direct	13359 Oct 12 01:19	12°Ϣ29'30	
asc. node	13354 Nov 04 22:45	25°Π54'59			13359 Dec 14 21:14	0°Υ	
	13354 Nov 10 09:22	0°⊠			13360 Feb 09 09:13	0°Ϣ	
	13354 Dec 20 12:25	0°Π			13360 Mar 28 04:53	0°Π	
	13355 Jan 31 09:53	0°Ϣ			13360 May 10 18:11	0°Ϣ	
	13355 Mar 22 00:47	0°Ϣ			13360 Jun 20 11:08	0°Ω	
retrograde	13355 May 09 05:46	13°Ϣ44'18		asc. node	13360 Jun 25 18:56	4°Ω02'37	
min. Earth dist.	13355 Jun 08 01:56	7°Ϣ36'52	0.50711 AU	evening set	13360 Jul 11 18:51	16°Ω19'49	
greatest brilliancy	13355 Jun 15 00:10	5°Ϣ02'49	-2.1m		13360 Jul 29 07:42	0°Π	
opposition	13355 Jun 16 01:29	4°Ϣ39'18	3°49'54		13360 Sep 05 06:05	0°⊠	
	13355 Jun 30 04:34	30°ϢϢ					
direct	13355 Jul 20 14:47	27°Ϣ13'12		conjunction	13360 Sep 19 23:23	11°⊠41'01	0°53'44
	13355 Aug 11 15:10	0°Ϣ		minimum elong	13360 Sep 19 19:26	11°⊠33'10	0°53'49
desc. node	13355 Sep 10 06:14	10°Ϣ00'19			13360 Oct 13 04:20	0°Π	
	13355 Oct 21 21:16	0°≈		max. Earth dist.	13360 Nov 03 03:04	16°Π19'10	2.37194 AU
	13355 Dec 14 14:56	0°Ϣ			13360 Nov 20 23:37	0°Ϣ	
	13356 Feb 02 19:21	0°Υ		morning rise	13360 Dec 01 17:41	8°Ϣ06'58	
	13356 Mar 21 16:50	0°Ϣ			13360 Dec 31 10:47	0°Ϣ	
evening set	13356 Apr 06 13:12	10°Ϣ14'30			13361 Feb 12 06:18	0°≈	
max. Earth dist.	13356 Apr 26 22:40	23°Ϣ40'07	2.58889 AU		13361 Mar 30 04:05	0°Ϣ	
	13356 May 06 09:47	0°Π		desc. node	13361 May 02 12:34	20°Ϣ10'16	
					13361 May 19 22:11	0°Υ	
conjunction	13356 May 22 20:01	11°Π08'47	-1°03'57		13361 Jul 26 11:55	0°Ϣ	
minimum elong	13356 May 22 21:07	11°Π10'41	1°04'52	retrograde	13361 Aug 24 23:25	4°Ϣ33'39	
	13356 Jun 18 22:45	0°Ϣ			13361 Sep 21 00:48	30°ϢΥ	
morning rise	13356 Jul 11 20:48	16°Ϣ23'15		opposition	13361 Oct 03 22:00	25°Υ15'59	-4°24'00
	13356 Jul 30 11:35	0°Ω		greatest brilliancy	13361 Oct 04 07:05	25°Υ07'06	-1.3m
	13356 Sep 08 09:09	0°Π		min. Earth dist.	13361 Oct 06 17:54	24°Υ09'36	0.67138 AU
asc. node	13356 Sep 21 13:14	10°Π06'43		direct	13361 Nov 14 13:40	15°Υ14'01	
	13356 Oct 17 04:55	0°⊠			13362 Jan 09 16:19	0°Ϣ	
	13356 Nov 24 17:56	0°Π			13362 Mar 05 18:01	0°Π	
	13357 Jan 03 01:32	0°Ϣ			13362 Apr 20 00:28	0°Ϣ	
	13357 Feb 13 15:36	0°Ϣ		asc. node	13362 May 13 20:02	17°Ϣ06'36	
	13357 Apr 01 15:30	0°≈			13362 May 31 03:26	0°Ω	

	13362 Jul 09 01:07	0°♎			13367 Mar 19 09:49	0°♑		
	13362 Aug 16 00:06	0°♏		morning rise	13367 Apr 11 16:10	14°♑43'33		
	13362 Sep 23 01:56	0°♐			13367 May 05 19:55	0°♑		
evening set	13362 Sep 26 14:45	2°♐45'13			13367 Jun 22 05:01	0°♒		
	13362 Nov 01 04:19	0°♑			13367 Aug 08 11:21	0°♓		
					13367 Sep 24 23:11	0°♑		
conjunction	13362 Dec 01 16:42	22°♑34'12	0°55'12		13367 Nov 13 03:53	0°♎		
minimum elong	13362 Dec 01 18:58	22°♑38'19	0°56'12	asc. node	13368 Jan 04 19:06	26°♎48'45		
	13362 Dec 11 23:47	0°♑			13368 Jan 13 17:08	0°♏		
max. Earth dist.	13363 Jan 10 19:03	20°♑58'58	2.51158 AU	retrograde	13368 Feb 10 23:04	4°♏52'33		
	13363 Jan 23 22:42	0°♐		opposition	13368 Mar 11 13:24	29°♎58'34	4°50'57	
morning rise	13363 Jan 27 06:25	2°♐15'15		greatest brilliancy	13368 Mar 11 10:27	0°♏00'32	-3.0m	
	13363 Mar 10 05:55	0°♑			13368 Mar 11 11:15	30°♎♎		
desc. node	13363 Mar 20 00:44	6°♑16'26		min. Earth dist.	13368 Mar 11 12:22	29°♎59'16	0.36370 AU	
	13363 Apr 27 02:59	0°♑		direct	13368 Apr 09 23:16	25°♎05'32		
	13363 Jun 17 16:44	0°♑			13368 May 07 18:39	0°♏		
	13363 Aug 19 04:50	0°♒			13368 Jul 06 14:17	0°♐		
retrograde	13363 Oct 03 12:29	9°♒47'10			13368 Aug 23 09:52	0°♑		
opposition	13363 Nov 10 05:47	1°♒28'03	-4°59'05		13368 Oct 09 02:01	0°♑		
greatest brilliancy	13363 Nov 11 09:50	1°♒01'30	-1.6m	desc. node	13368 Nov 08 06:27	19°♑17'15		
	13363 Nov 14 02:42	30°♎♑			13368 Nov 25 03:23	0°♐		
min. Earth dist.	13363 Nov 16 21:24	28°♑57'24	0.59425 AU		13369 Jan 11 17:08	0°♑		
direct	13363 Dec 20 22:01	21°♑41'28		evening set	13369 Feb 17 00:56	22°♑50'41		
	13364 Jan 28 10:49	0°♒			13369 Feb 28 09:18	0°♑		
	13364 Mar 24 18:11	0°♓		max. Earth dist.	13369 Mar 25 10:22	15°♑51'49	2.67802 AU	
asc. node	13364 Mar 31 03:53	4°♓08'36						
	13364 May 07 08:09	0°♑		conjunction	13369 Apr 01 23:00	20°♑39'24	-1°03'47	
	13364 Jun 16 04:06	0°♎		minimum elong	13369 Apr 01 22:05	20°♑37'57	1°04'03	
	13364 Jul 24 16:41	0°♏			13369 Apr 16 13:32	0°♑		
	13364 Sep 01 08:06	0°♐		morning rise	13369 May 15 08:24	18°♑36'26		
	13364 Oct 11 02:24	0°♑			13369 Jun 01 17:58	0°♒		
	13364 Nov 21 14:52	0°♑			13369 Jul 16 15:36	0°♓		
evening set	13364 Nov 28 00:42	4°♑30'26			13369 Aug 29 04:00	0°♑		
	13365 Jan 04 03:46	0°♐			13369 Oct 10 09:44	0°♎		
					13369 Nov 20 19:32	0°♏		
conjunction	13365 Jan 19 12:40	10°♐16'41	0°08'31	asc. node	13369 Nov 21 18:47	0°♏42'14		
minimum elong	13365 Jan 19 13:03	10°♐17'20	0°09'21		13370 Jan 01 15:24	0°♐		
behind sun begin	13365 Jan 18 20:08	9°♐49'14			13370 Feb 16 16:00	0°♑		
behind sun end	13365 Jan 20 05:59	10°♐45'24		retrograde	13370 Apr 19 21:35	21°♑46'42		
desc. node	13365 Feb 03 11:25	20°♐08'13		min. Earth dist.	13370 May 17 08:39	16°♑34'22	0.45177 AU	
max. Earth dist.	13365 Feb 08 18:42	23°♐36'18	2.62094 AU	greatest brilliancy	13370 May 24 04:30	14°♑12'58	-2.4m	
	13365 Feb 18 14:44	0°♑		opposition	13370 May 25 17:33	13°♑40'46	5°27'59	
morning rise	13365 Mar 07 20:14	11°♑05'20		direct	13370 Jun 27 05:41	7°♑06'50		
	13365 Apr 06 16:28	0°♑			13370 Sep 07 15:56	0°♑		
	13365 May 25 04:03	0°♑		desc. node	13370 Sep 26 14:55	9°♑48'58		
	13365 Jul 14 12:07	0°♒			13370 Nov 01 20:06	0°♐		
	13365 Sep 07 07:56	0°♓			13370 Dec 22 18:39	0°♑		
retrograde	13365 Nov 24 15:31	24°♓59'02			13371 Feb 09 22:30	0°♑		
opposition	13365 Dec 28 03:01	18°♓25'03	-2°58'16	evening set	13371 Mar 24 08:05	26°♑41'45		
greatest brilliancy	13365 Dec 29 05:28	18°♓02'50	-2.4m		13371 Mar 29 11:47	0°♑		
min. Earth dist.	13366 Jan 05 20:36	15°♓29'39	0.46079 AU	max. Earth dist.	13371 Apr 17 15:45	12°♑25'05	2.62422 AU	
direct	13366 Feb 02 18:46	10°♓22'24						
asc. node	13366 Feb 16 12:11	11°♓41'18		conjunction	13371 May 08 05:10	25°♑58'40	-1°09'46	
	13366 Apr 02 23:43	0°♑		minimum elong	13371 May 08 05:34	25°♑59'20	1°10'33	
	13366 May 19 11:43	0°♎			13371 May 14 05:39	0°♒		
	13366 Jun 29 18:17	0°♏		morning rise	13371 Jun 24 04:37	28°♒00'17		
	13366 Aug 09 06:18	0°♐			13371 Jun 27 01:07	0°♓		
	13366 Sep 19 14:43	0°♑			13371 Aug 07 23:41	0°♑		
	13366 Nov 01 12:51	0°♑			13371 Sep 17 07:56	0°♎		
	13366 Dec 16 04:45	0°♐		asc. node	13371 Oct 09 09:14	16°♎47'19		
desc. node	13366 Dec 22 04:43	3°♐56'52			13371 Oct 26 13:53	0°♏		
evening set	13367 Jan 11 21:59	17°♐28'11			13371 Dec 04 12:28	0°♐		
	13367 Jan 31 08:03	0°♑			13372 Jan 13 08:35	0°♑		
					13372 Feb 25 03:31	0°♑		
conjunction	13367 Feb 27 00:43	17°♑03'39	-0°35'21		13372 Apr 17 11:19	0°♐		
minimum elong	13367 Feb 26 23:42	17°♑02'02	0°35'01	retrograde	13372 Jun 03 01:34	12°♐11'03		
max. Earth dist.	13367 Mar 04 03:42	20°♑19'13	2.67714 AU	min. Earth dist.	13372 Jul 06 12:01	4°♐47'20	0.58407 AU	

opposition	13372 Jul 12 17:10	2° \approx 22'07	1°21'59	evening set	13377 Aug 26 19:13	2° \approx 25'43	
greatest brilliancy	13372 Jul 12 09:58	2° \approx 29'09	-1.7m		13377 Sep 30 17:16	0° \approx	
	13372 Jul 18 23:11	30° \approx					
desc. node	13372 Aug 14 01:21	24° \approx 04'36		conjunction	13377 Nov 06 07:48	28° \approx 14'20	1°05'32
direct	13372 Aug 18 23:03	23° \approx 55'30		minimum elong	13377 Nov 06 08:47	28° \approx 16'13	1°06'21
	13372 Sep 22 06:07	0° \approx			13377 Nov 08 15:37	0° \approx	
	13372 Nov 28 00:38	0° \approx			13377 Dec 19 06:22	0° \approx	
	13373 Jan 20 01:40	0° \approx		max. Earth dist.	13377 Dec 25 10:30	4° \approx 25'46	2.45666 AU
	13373 Mar 09 22:08	0° \approx		morning rise	13378 Jan 07 23:36	14° \approx 01'33	
	13373 Apr 24 19:33	0° \approx			13378 Jan 31 01:52	0° \approx	
evening set	13373 Apr 30 15:41	3° \approx 15'47			13378 Mar 17 11:13	0° \approx	
max. Earth dist.	13373 May 16 00:35	14° \approx 28'39	2.51929 AU	desc. node	13378 Apr 05 19:13	12° \approx 13'06	
	13373 Jun 07 03:22	0° \approx			13378 May 05 00:55	0° \approx	
					13378 Jun 28 07:40	0° \approx	
conjunction	13373 Jun 19 19:57	9° \approx 06'16	-0°42'30	retrograde	13378 Sep 17 03:10	25° \approx 35'48	
minimum elong	13373 Jun 19 21:51	9° \approx 09'42	0°43'31	opposition	13378 Oct 25 22:00	16° \approx 49'50	-4°56'20
	13373 Jul 18 06:19	0° \approx		greatest brilliancy	13378 Oct 26 18:47	16° \approx 29'49	-1.5m
morning rise	13373 Aug 16 15:32	22° \approx 15'26		min. Earth dist.	13378 Oct 31 02:51	14° \approx 49'48	0.63228 AU
asc. node	13373 Aug 25 21:10	29° \approx 12'10		direct	13378 Dec 06 05:33	6° \approx 51'01	
	13373 Aug 26 16:45	0° \approx			13379 Feb 15 09:44	0° \approx	
	13373 Oct 04 02:35	0° \approx			13379 Apr 05 07:51	0° \approx	
	13373 Nov 11 07:06	0° \approx		asc. node	13379 Apr 17 15:30	8° \approx 27'23	
	13373 Dec 20 04:58	0° \approx			13379 May 17 11:34	0° \approx	
	13374 Jan 29 22:43	0° \approx			13379 Jun 25 18:40	0° \approx	
	13374 Mar 15 02:20	0° \approx			13379 Aug 02 23:37	0° \approx	
	13374 May 05 21:41	0° \approx			13379 Sep 10 07:52	0° \approx	
desc. node	13374 Jul 02 08:07	18° \approx 58'33			13379 Oct 19 18:11	0° \approx	
retrograde	13374 Jul 09 03:49	19° \approx 16'12		evening set	13379 Nov 07 06:15	13° \approx 39'31	
min. Earth dist.	13374 Aug 16 10:02	10° \approx 18'34	0.66634 AU		13379 Nov 29 22:23	0° \approx	
opposition	13374 Aug 18 22:35	9° \approx 18'34	-1°44'50				
greatest brilliancy	13374 Aug 18 17:50	9° \approx 23'16	-1.4m	conjunction	13380 Jan 03 02:20	23° \approx 49'27	0°27'37
	13374 Sep 23 07:58	30° \approx		minimum elong	13380 Jan 03 03:39	23° \approx 51'42	0°28'36
direct	13374 Sep 28 02:23	29° \approx 51'39			13380 Jan 12 04:06	0° \approx	
	13374 Oct 02 22:36	0° \approx		max. Earth dist.	13380 Jan 30 08:14	12° \approx 11'26	2.58420 AU
	13374 Dec 27 01:29	0° \approx		desc. node	13380 Feb 21 06:00	26° \approx 35'59	
	13375 Feb 17 19:00	0° \approx		morning rise	13380 Feb 22 03:17	27° \approx 10'35	
	13375 Apr 05 17:48	0° \approx			13380 Feb 26 11:39	0° \approx	
	13375 May 19 02:45	0° \approx			13380 Apr 13 17:26	0° \approx	
evening set	13375 Jun 18 06:58	22° \approx 03'27			13380 Jun 02 00:28	0° \approx	
	13375 Jun 28 20:54	0° \approx			13380 Jul 24 18:48	0° \approx	
max. Earth dist.	13375 Jul 11 11:22	9° \approx 35'02	2.38402 AU		13380 Sep 29 14:35	0° \approx	
asc. node	13375 Jul 13 12:57	11° \approx 10'00		retrograde	13380 Nov 01 09:08	5° \approx 35'09	
	13375 Aug 06 19:56	0° \approx			13380 Dec 01 17:13	30° \approx	
				opposition	13380 Dec 06 20:20	28° \approx 12'32	-4°16'24
conjunction	13375 Aug 21 00:41	11° \approx 09'19	0°26'52	greatest brilliancy	13380 Dec 08 05:54	27° \approx 12'42'27	-2.0m
minimum elong	13375 Aug 20 22:05	11° \approx 04'11	0°26'24	min. Earth dist.	13380 Dec 15 08:03	25° \approx 10'37	0.51741 AU
	13375 Sep 13 20:06	0° \approx		direct	13381 Jan 14 14:54	19° \approx 12'13	
	13375 Oct 21 18:29	0° \approx			13381 Feb 26 13:15	0° \approx	
morning rise	13375 Nov 03 05:35	9° \approx 14'53		asc. node	13381 Mar 05 01:47	3° \approx 03'57	
	13375 Nov 29 12:25	0° \approx			13381 Apr 19 09:53	0° \approx	
	13376 Jan 08 22:19	0° \approx			13381 May 31 09:52	0° \approx	
	13376 Feb 20 19:59	0° \approx			13381 Jul 10 00:29	0° \approx	
	13376 Apr 07 08:41	0° \approx			13381 Aug 18 11:33	0° \approx	
desc. node	13376 May 19 05:41	24° \approx 02'18			13381 Sep 27 23:58	0° \approx	
	13376 May 30 20:46	0° \approx			13381 Nov 09 05:27	0° \approx	
retrograde	13376 Aug 11 05:42	22° \approx 03'26			13381 Dec 23 08:17	0° \approx	
opposition	13376 Sep 20 16:02	12° \approx 03'18	-3°50'31	evening set	13381 Dec 26 20:52	2° \approx 20'42	
greatest brilliancy	13376 Sep 20 18:50	12° \approx 07'33	-1.3m	desc. node	13382 Jan 07 19:37	10° \approx 14'43	
min. Earth dist.	13376 Sep 21 23:42	11° \approx 09'09	0.68322 AU		13382 Feb 07 03:21	0° \approx	
direct	13376 Nov 01 04:48	2° \approx 33'07					
	13377 Jan 22 23:40	0° \approx		conjunction	13382 Feb 12 19:56	3° \approx 40'06	-0°19'51
	13377 Mar 14 18:19	0° \approx		minimum elong	13382 Feb 12 19:16	3° \approx 39'01	0°19'18
	13377 Apr 28 02:34	0° \approx		max. Earth dist.	13382 Feb 23 11:13	10° \approx 29'39	2.66173 AU
asc. node	13377 May 30 10:13	23° \approx 33'39			13382 Mar 26 03:07	0° \approx	
	13377 Jun 07 23:39	0° \approx		morning rise	13382 Mar 29 10:27	2° \approx 05'25	
	13377 Jul 16 19:51	0° \approx			13382 May 12 19:58	0° \approx	
	13377 Aug 23 17:48	0° \approx			13382 Jun 30 00:56	0° \approx	

	13382 Aug 18 01:48	0°☿			13387 Dec 08 17:06	0°♄		
	13382 Oct 08 13:42	0°♂			13388 Jan 28 17:45	0°♂		
	13382 Dec 13 20:04	0°♄			13388 Mar 16 22:40	0°♄		
retrograde	13383 Jan 08 13:45	3°♄51'17		evening set	13388 Apr 15 00:28	18°♄52'18		
asc. node	13383 Jan 21 09:40	2°♄49'20			13388 May 01 17:27	0°♂		
	13383 Feb 03 02:43	30°♄♂		max. Earth dist.	13388 May 03 09:53	1°♂♂08'05	2.56602 AU	
opposition	13383 Feb 07 21:31	28°♂40'11	1°17'39					
greatest brilliancy	13383 Feb 08 03:13	28°♂36'09	-2.9m	conjunction	13388 Jun 01 09:56	21°♂♂00'52	-0°57'58	
min. Earth dist.	13383 Feb 13 08:38	27°♂07'43	0.38402 AU	minimum elong	13388 Jun 01 11:26	21°♂♂03'29	0°58'57	
direct	13383 Mar 11 15:50	22°♂48'47			13388 Jun 14 04:56	0°☿		
	13383 Apr 14 04:05	0°♄		morning rise	13388 Jul 23 17:37	28°☿36'31		
	13383 Jun 07 19:56	0°♂			13388 Jul 25 14:43	0°♂		
	13383 Jul 22 13:49	0°♄			13388 Sep 03 08:30	0°♄		
	13383 Sep 04 09:12	0°♂		asc. node	13388 Sep 11 18:10	6°♄27'57		
	13383 Oct 19 00:08	0°♄			13388 Oct 12 00:41	0°♂		
desc. node	13383 Nov 25 17:45	24°♄44'57			13388 Nov 19 10:06	0°♄		
	13383 Dec 03 20:23	0°♄			13388 Dec 28 12:37	0°♂		
	13384 Jan 19 17:25	0°♄			13389 Feb 07 15:57	0°♄		
evening set	13384 Feb 04 02:23	9°♄45'09			13389 Mar 25 03:30	0°♄		
	13384 Mar 07 02:03	0°♂			13389 May 24 13:39	0°♄		
max. Earth dist.	13384 Mar 16 19:24	6°♂09'32	2.68431 AU	retrograde	13389 Jun 25 15:38	5°♄53'36		
				desc. node	13389 Jul 18 20:08	2°♄16'21		
conjunction	13384 Mar 19 11:58	7°♂51'52	-0°55'04		13389 Jul 25 14:02	30°♄♄		
minimum elong	13384 Mar 19 10:50	7°♂50'06	0°55'06	min. Earth dist.	13389 Aug 01 04:44	27°♄♄28'34	0.64165 AU	
	13384 Apr 23 06:54	0°♄		opposition	13389 Aug 05 04:43	25°♄♄53'39	-0°40'33	
morning rise	13384 May 01 14:32	5°♄19'20		greatest brilliancy	13389 Aug 05 01:59	25°♄♄56'22	-1.5m	
	13384 Jun 08 19:58	0°♂		direct	13389 Sep 13 09:54	16°♄♄45'48		
	13384 Jul 24 10:23	0°☿			13389 Nov 06 14:24	0°♄		
	13384 Sep 07 00:27	0°♂			13390 Jan 05 22:11	0°♂		
	13384 Oct 20 17:58	0°♄			13390 Feb 25 14:33	0°♄		
	13384 Dec 03 08:45	0°♂			13390 Apr 13 00:17	0°♂		
asc. node	13384 Dec 08 11:10	3°♂27'25			13390 May 26 07:29	0°☿		
	13385 Jan 18 17:27	0°♄		evening set	13390 May 28 09:18	1°☿29'07		
retrograde	13385 Mar 27 22:46	25°♄05'39		max. Earth dist.	13390 Jun 11 11:20	11°☿40'38	2.43662 AU	
min. Earth dist.	13385 Apr 22 17:54	20°♄39'38	0.40110 AU		13390 Jul 06 04:21	0°♂		
greatest brilliancy	13385 Apr 28 09:20	18°♄56'04	-2.7m					
opposition	13385 Apr 29 23:48	18°♄26'18	6°38'26	conjunction	13390 Jul 24 15:14	14°♂01'09	-0°04'01	
direct	13385 May 30 11:13	12°♄51'19		minimum elong	13390 Jul 24 15:38	14°♂01'55	0°04'50	
	13385 Jul 28 10:54	0°♂		behind sun begin	13390 Jul 23 14:05	13°♂13'00		
	13385 Sep 21 20:23	0°♄		behind sun end	13390 Jul 25 17:12	14°♂50'54		
desc. node	13385 Oct 13 01:21	12°♄28'45		asc. node	13390 Jul 30 06:57	18°♂21'54		
	13385 Nov 11 06:05	0°♄			13390 Aug 14 07:10	0°♄		
	13385 Dec 30 11:10	0°♄			13390 Sep 21 10:25	0°♂		
	13386 Feb 16 21:25	0°♂		morning rise	13390 Oct 01 21:02	8°♂15'49		
evening set	13386 Mar 10 12:26	13°♂36'17			13390 Oct 29 10:20	0°♄		
	13386 Apr 05 05:29	0°♄			13390 Dec 07 04:23	0°♂		
max. Earth dist.	13386 Apr 08 06:40	1°♄57'45	2.65165 AU		13391 Jan 16 14:49	0°♄		
					13391 Feb 28 18:10	0°♄		
conjunction	13386 Apr 23 15:02	11°♄54'23	-1°10'42		13391 Apr 17 08:35	0°♄		
minimum elong	13386 Apr 23 14:48	11°♄54'01	1°11'18	desc. node	13391 Jun 05 21:59	25°♄51'51		
	13386 May 21 02:17	0°♂			13391 Jun 15 22:52	0°♂		
morning rise	13386 Jun 07 14:59	11°♂45'56		retrograde	13391 Jul 29 21:22	9°♂39'30		
	13386 Jul 04 06:14	0°☿		opposition	13391 Sep 08 15:02	29°♄54'02	-3°08'30	
	13386 Aug 15 16:54	0°♂		min. Earth dist.	13391 Sep 08 10:21	29°♄58'39	0.68477 AU	
	13386 Sep 25 14:39	0°♄			13391 Sep 08 08:59	30°♄♄		
asc. node	13386 Oct 26 05:30	23°♄01'22		greatest brilliancy	13391 Sep 08 13:08	29°♄55'55	-1.3m	
	13386 Nov 04 10:21	0°♂		direct	13391 Oct 19 19:21	20°♄05'36		
	13386 Dec 13 23:58	0°♄			13391 Dec 04 07:38	0°♂		
	13387 Jan 23 19:45	0°♂			13392 Feb 03 08:00	0°♄		
	13387 Mar 10 09:26	0°♄			13392 Mar 23 00:34	0°♂		
retrograde	13387 May 19 02:44	25°♄06'01			13392 May 05 20:09	0°☿		
min. Earth dist.	13387 Jun 19 06:30	18°♄29'50	0.53635 AU		13392 Jun 15 14:39	0°♂		
opposition	13387 Jun 26 17:38	15°♄39'57	2°53'32	asc. node	13392 Jun 16 02:56	0°♂23'14		
greatest brilliancy	13387 Jun 25 23:36	15°♄57'04	-2.0m		13392 Jul 24 10:55	0°♄		
direct	13387 Aug 01 08:38	7°♄49'29		evening set	13392 Jul 27 09:26	2°♄18'31		
desc. node	13387 Aug 31 11:59	12°♄44'18			13392 Aug 31 08:46	0°♂		
	13387 Oct 13 06:05	0°♄						

conjunction	13392 Oct 07 19:43	29° Ω 38'09	1°02'56		13397 Aug 29 10:34	0° Θ
minimum elong	13392 Oct 07 17:12	29° Ω 33'14	1°03'21		13397 Oct 31 06:28	0° Ω
	13392 Oct 08 06:50	0° \mathbb{M}		retrograde	13397 Dec 09 11:22	7° Ω 57'53
	13392 Nov 16 02:18	0° \mathcal{A}		opposition	13398 Jan 10 19:07	1° Ω 54'00 -1°46'05
max. Earth dist.	13392 Nov 30 22:18	11° \mathcal{A} 09'52	2.39977 AU	greatest brilliancy	13398 Jan 11 11:07	1° Ω 41'12 -2.6m
morning rise	13392 Dec 16 10:05	22° \mathcal{A} 37'07			13398 Jan 16 17:24	30° $\mathcal{R}\Theta$
	13392 Dec 26 13:41	0° \mathcal{Z}		min. Earth dist.	13398 Jan 19 00:12	29° Θ 17'10 0.43010 AU
	13393 Feb 07 07:44	0° \approx		asc. node	13398 Feb 06 22:30	25° Θ 01'38
	13393 Mar 24 22:39	0° \mathcal{H}		direct	13398 Feb 14 21:16	24° Θ 34'09
desc. node	13393 Apr 22 14:03	17° \mathcal{H} 41'05			13398 Mar 15 13:08	0° Ω
	13393 May 13 15:02	0° Υ			13398 May 10 08:57	0° \mathbb{M}
	13393 Jul 12 08:13	0° \mathcal{B}			13398 Jun 22 12:33	0° Ω
retrograde	13393 Sep 02 02:17	12° \mathcal{B} 21'12			13398 Aug 02 22:53	0° \mathbb{M}
opposition	13393 Oct 11 16:52	3° \mathcal{B} 13'42	-4°39'06		13398 Sep 13 22:07	0° \mathcal{A}
greatest brilliancy	13393 Oct 12 05:59	3° \mathcal{B} 00'56	-1.3m		13398 Oct 27 07:21	0° \mathcal{Z}
min. Earth dist.	13393 Oct 15 09:19	1° \mathcal{B} 47'40	0.66048 AU		13398 Dec 11 07:16	0° \approx
	13393 Oct 20 02:29	30° $\mathcal{R}\Upsilon$		desc. node	13398 Dec 12 08:12	0° \approx 40'52
direct	13393 Nov 22 07:49	23° Υ 11'10		evening set	13399 Jan 20 13:25	26° \approx 05'42
	13393 Dec 28 04:23	0° \mathcal{B}			13399 Jan 26 15:37	0° \mathcal{H}
	13394 Feb 27 06:34	0° \mathbb{I}				
	13394 Apr 14 12:30	0° Θ		conjunction	13399 Mar 06 22:01	25° \mathcal{H} 00'34 -0°43'23
asc. node	13394 May 04 05:44	13° Θ 58'30		minimum elong	13399 Mar 06 20:54	24° \mathcal{H} 58'47 0°43'12
	13394 May 25 23:11	0° Ω		max. Earth dist.	13399 Mar 09 03:37	26° \mathcal{H} 25'35 2.68196 AU
	13394 Jul 03 23:46	0° \mathbb{M}			13399 Mar 14 18:52	0° Υ
	13394 Aug 11 00:21	0° Ω		morning rise	13399 Apr 19 05:54	22° Υ 28'31
	13394 Sep 18 03:39	0° \mathbb{M}			13399 May 01 02:23	0° \mathcal{B}
evening set	13394 Oct 12 17:07	18° \mathbb{M} 56'30			13399 Jun 17 03:14	0° \mathbb{I}
	13394 Oct 27 07:37	0° \mathcal{A}			13399 Aug 02 16:49	0° Θ
	13394 Dec 07 04:51	0° \mathcal{Z}			13399 Sep 17 21:37	0° Ω
					13399 Nov 03 07:47	0° \mathbb{M}
conjunction	13394 Dec 14 06:59	5° \mathcal{Z} 03'14	0°46'01		13399 Dec 22 15:39	0° Ω
minimum elong	13394 Dec 14 09:08	5° \mathcal{Z} 07'02	0°47'02	asc. node	13399 Dec 26 03:56	1° Ω 56'38
max. Earth dist.	13395 Jan 18 12:28	29° \mathcal{Z} 32'18	2.53928 AU	retrograde	13400 Feb 28 20:00	23° Ω 44'15
	13395 Jan 19 04:44	0° \approx		min. Earth dist.	13400 Mar 27 20:36	19° Ω 22'55 0.36818 AU
morning rise	13395 Feb 06 03:56	12° \approx 05'33		greatest brilliancy	13400 Mar 30 09:48	18° Ω 41'26 -3.0m
	13395 Mar 05 10:33	0° \mathcal{H}		opposition	13400 Mar 31 04:45	18° Ω 28'34 6°12'16
desc. node	13395 Mar 10 00:07	2° \mathcal{H} 56'48		direct	13400 Apr 29 05:54	13° Ω 36'31
	13395 Apr 21 23:48	0° Υ			13400 Jun 24 01:40	0° \mathbb{M}
	13395 Jun 11 11:58	0° \mathcal{B}			13400 Aug 16 07:38	0° \mathcal{A}
	13395 Aug 07 16:48	0° \mathbb{I}			13400 Oct 03 19:32	0° \mathcal{Z}
retrograde	13395 Oct 13 15:01	18° \mathbb{I} 56'03		desc. node	13400 Oct 30 11:19	16° \mathcal{Z} 40'50
opposition	13395 Nov 19 15:33	10° \mathbb{I} 54'49	-4°51'25		13400 Nov 20 18:27	0° \approx
greatest brilliancy	13395 Nov 20 22:52	10° \mathbb{I} 25'37	-1.7m		13401 Jan 07 19:48	0° \mathcal{H}
min. Earth dist.	13395 Nov 27 01:30	8° \mathbb{I} 09'28	0.56908 AU		13401 Feb 24 17:26	0° Υ
direct	13395 Dec 29 19:18	1° \mathbb{I} 20'08		evening set	13401 Feb 25 20:43	0° Υ 42'58
	13396 Mar 16 19:26	0° Θ		max. Earth dist.	13401 Mar 31 10:50	21° Υ 59'58 2.67082 AU
asc. node	13396 Mar 21 13:18	2° Θ 52'55				
	13396 May 01 00:36	0° Ω		conjunction	13401 Apr 10 17:22	28° Υ 34'22 -1°07'26
	13396 Jun 10 09:43	0° \mathbb{M}		minimum elong	13401 Apr 10 16:39	28° Υ 33'13 1°07'50
	13396 Jul 19 05:17	0° Ω			13401 Apr 12 22:43	0° \mathcal{B}
	13396 Aug 27 02:04	0° \mathbb{M}		morning rise	13401 May 24 12:35	27° \mathcal{B} 02'28
	13396 Oct 06 01:09	0° \mathcal{A}			13401 May 29 00:09	0° \mathbb{I}
	13396 Nov 16 18:06	0° \mathcal{Z}			13401 Jul 12 14:52	0° Θ
evening set	13396 Dec 09 01:22	15° \mathcal{Z} 29'13			13401 Aug 24 17:10	0° Ω
	13396 Dec 30 10:27	0° \approx			13401 Oct 05 09:37	0° \mathbb{M}
desc. node	13397 Jan 24 12:52	16° \approx 40'39		asc. node	13401 Nov 12 23:46	28° \mathbb{M} 25'53
					13401 Nov 15 02:35	0° Ω
conjunction	13397 Jan 28 16:20	19° \approx 23'53	-0°02'22		13401 Dec 25 19:40	0° \mathbb{M}
minimum elong	13397 Jan 28 16:17	19° \approx 23'48	0°01'37		13402 Feb 06 21:09	0° \mathcal{A}
behind sun begin	13397 Jan 27 20:24	18° \approx 51'14			13402 Apr 04 10:25	0° \mathcal{Z}
behind sun end	13397 Jan 29 12:10	19° \approx 56'21		retrograde	13402 May 02 04:17	5° \mathcal{Z} 09'11
	13397 Feb 13 23:01	0° \mathcal{H}			13402 May 29 07:46	30° $\mathcal{R}\mathcal{A}$
max. Earth dist.	13397 Feb 14 09:21	0° \mathcal{H} 16'43	2.63762 AU	min. Earth dist.	13402 May 30 22:10	29° \mathcal{A} 26'42 0.48245 AU
morning rise	13397 Mar 15 20:30	19° \mathcal{H} 10'42		greatest brilliancy	13402 Jun 06 22:16	26° \mathcal{A} 55'10 -2.2m
	13397 Apr 01 22:42	0° Υ		opposition	13402 Jun 08 05:10	26° \mathcal{A} 27'14 4°33'04
	13397 May 20 01:51	0° \mathcal{B}		direct	13402 Jul 11 21:06	19° \mathcal{A} 23'18
	13397 Jul 08 11:13	0° \mathbb{I}			13402 Aug 26 19:42	0° \mathcal{Z}

desc. node	13402 Sep 17 21:33	9° ♁ 44'12			13407 Oct 17 21:01	0° ♁	
	13402 Oct 26 22:47	0° \approx		morning rise	13407 Nov 21 08:15	26° ♁ 44'34	
	13402 Dec 18 08:00	0° ♁			13407 Nov 25 14:45	0° ♁	
	13403 Feb 06 01:26	0° ♁			13408 Jan 04 23:50	0° ♁	
	13403 Mar 25 19:57	0° ♁			13408 Feb 16 18:15	0° \approx	
evening set	13403 Apr 02 08:29	4° ♁ 50'23			13408 Apr 02 19:12	0° ♁	
max. Earth dist.	13403 Apr 24 09:43	19° ♁ 13'48	2.60566 AU	desc. node	13408 May 10 07:16	22° ♁ 17'55	
	13403 May 10 14:23	0° ♁			13408 May 24 08:31	0° ♁	
				retrograde	13408 Aug 19 23:50	29° ♁ 41'25	
conjunction	13403 May 17 22:06	4° ♁ 55'47	-1°07'05	opposition	13408 Sep 29 04:55	20° ♁ 16'26	-4°11'14
minimum elong	13403 May 17 22:55	4° ♁ 57'09	1°07'58	greatest brilliancy	13408 Sep 29 11:05	20° ♁ 10'23	-1.3m
	13403 Jun 23 07:09	0° ♁		min. Earth dist.	13408 Oct 01 08:58	19° ♁ 25'24	0.67803 AU
morning rise	13403 Jul 05 10:48	8° ♁ 35'40		direct	13408 Nov 09 20:27	10° ♁ 15'52	
	13403 Aug 04 01:11	0° ♁			13409 Jan 15 22:36	0° ♁	
	13403 Sep 13 03:52	0° ♁			13409 Mar 09 23:33	0° ♁	
asc. node	13403 Sep 30 14:45	13° ♁ 20'49		asc. node	13409 Apr 23 21:21	0° ♁	
	13403 Oct 22 04:08	0° ♁			13409 May 21 18:39	20° ♁ 09'07	
	13403 Nov 29 20:47	0° ♁			13409 Jun 03 22:53	0° ♁	
	13404 Jan 08 08:00	0° ♁			13409 Jul 12 20:25	0° ♁	
	13404 Feb 19 06:14	0° ♁			13409 Aug 19 18:55	0° ♁	
	13404 Apr 07 15:20	0° \approx		greatest brilliancy	13409 Sep 03 06:36	11° ♁ 28'48	1.1m
retrograde	13404 Jun 12 13:11	21° \approx 31'26		evening set	13409 Sep 14 07:28	20° ♁ 11'43	
min. Earth dist.	13404 Jul 17 03:58	13° \approx 44'00	0.60734 AU		13409 Sep 26 19:16	0° ♁	
opposition	13404 Jul 22 14:29	11° \approx 35'55	0°33'52		13409 Nov 04 18:53	0° ♁	
greatest brilliancy	13404 Jul 22 11:53	11° \approx 38'28	-1.6m				
desc. node	13404 Aug 05 07:28	6° \approx 39'53		conjunction	13409 Nov 22 03:31	12° ♁ 58'58	1°00'46
direct	13404 Aug 29 15:05	2° \approx 52'35		minimum elong	13409 Nov 22 05:34	13° ♁ 02'44	1°01'43
	13404 Nov 21 16:19	0° ♁			13409 Dec 15 10:55	0° ♁	
	13405 Jan 15 14:00	0° ♁		max. Earth dist.	13410 Jan 05 05:07	14° ♁ 44'38	2.48765 AU
	13405 Mar 06 00:22	0° ♁		morning rise	13410 Jan 20 05:57	25° ♁ 10'56	
	13405 Apr 21 02:23	0° ♁			13410 Jan 27 06:49	0° \approx	
evening set	13405 May 11 02:29	13° ♁ 37'52			13410 Mar 13 13:04	0° ♁	
max. Earth dist.	13405 May 25 05:45	23° ♁ 29'14	2.49120 AU	desc. node	13410 Mar 27 20:14	9° ♁ 07'44	
	13405 Jun 03 10:28	0° ♁			13410 Apr 30 14:39	0° ♁	
					13410 Jun 22 01:05	0° ♁	
conjunction	13405 Jul 02 08:16	20° ♁ 58'18	-0°30'32		13410 Aug 30 12:33	0° ♁	
minimum elong	13405 Jul 02 10:03	21° ♁ 01'35	0°31'30	retrograde	13410 Sep 27 05:31	4° ♁ 02'41	
	13405 Jul 14 11:49	0° ♁			13410 Oct 22 18:48	30° ♁	
asc. node	13405 Aug 17 03:51	25° ♁ 37'05		opposition	13410 Nov 04 11:34	25° ♁ 30'48	-4°59'45
	13405 Aug 22 19:44	0° ♁		greatest brilliancy	13410 Nov 05 12:33	25° ♁ 06'58	-1.5m
morning rise	13405 Sep 01 23:58	7° ♁ 55'01		min. Earth dist.	13410 Nov 10 12:16	23° ♁ 12'59	0.61256 AU
	13405 Sep 30 03:01	0° ♁		direct	13410 Dec 15 12:19	15° ♁ 37'22	
	13405 Nov 07 05:18	0° ♁			13411 Feb 06 13:17	0° ♁	
greatest brilliancy	13405 Nov 19 15:09	9° ♁ 41'33	1.2m	asc. node	13411 Mar 30 20:31	0° ♁	
	13405 Dec 16 00:33	0° ♁			13411 Apr 09 02:03	6° ♁ 08'31	
	13406 Jan 25 13:29	0° ♁			13411 May 12 19:11	0° ♁	
	13406 Mar 10 04:00	0° \approx			13411 Jun 21 09:32	0° ♁	
	13406 Apr 28 17:40	0° ♁			13411 Jul 29 18:19	0° ♁	
desc. node	13406 Jun 23 11:18	23° ♁ 47'09			13411 Sep 06 05:45	0° ♁	
retrograde	13406 Jul 17 17:55	27° ♁ 08'53			13411 Oct 15 19:13	0° ♁	
min. Earth dist.	13406 Aug 25 21:09	17° ♁ 54'40	0.67583 AU	evening set	13411 Nov 20 23:00	26° ♁ 20'25	
opposition	13406 Aug 27 13:42	17° ♁ 14'31	-2°18'23		13411 Nov 26 02:30	0° ♁	
greatest brilliancy	13406 Aug 27 09:13	17° ♁ 18'58	-1.3m		13412 Jan 08 10:48	0° \approx	
direct	13406 Oct 07 03:38	7° ♁ 38'41					
	13406 Dec 20 10:52	0° ♁		conjunction	13412 Jan 14 05:31	3° \approx 53'49	0°16'30
	13407 Feb 13 05:32	0° ♁		minimum elong	13412 Jan 14 06:17	3° \approx 55'06	0°17'25
	13407 Apr 01 17:40	0° ♁		max. Earth dist.	13412 Feb 06 11:21	19° \approx 20'46	2.60555 AU
	13407 May 15 06:29	0° ♁		desc. node	13412 Feb 12 06:22	23° \approx 08'46	
	13407 Jun 25 01:15	0° ♁			13412 Feb 22 18:55	0° ♁	
evening set	13407 Jul 02 13:37	5° ♁ 42'11		morning rise	13412 Mar 02 15:37	5° ♁ 43'36	
asc. node	13407 Jul 04 19:21	7° ♁ 24'40			13412 Apr 09 21:07	0° ♁	
	13407 Aug 02 23:36	0° ♁			13412 May 28 15:29	0° ♁	
max. Earth dist.	13407 Aug 24 08:47	16° ♁ 50'37	2.36369 AU		13412 Jul 18 19:51	0° ♁	
					13412 Sep 14 19:03	0° ♁	
conjunction	13407 Sep 08 02:15	28° ♁ 31'15	0°43'22	retrograde	13412 Nov 15 01:10	16° ♁ 39'36	
minimum elong	13407 Sep 07 22:19	28° ♁ 23'26	0°43'11	opposition	13412 Dec 19 10:28	9° ♁ 42'41	-3°37'47
	13407 Sep 09 22:59	0° ♁		greatest brilliancy	13412 Dec 20 17:24	9° ♁ 15'48	-2.2m

min. Earth dist.	13412 Dec 28 04:19	6°☾40'59	0.48635 AU	max. Earth dist.	13418 Apr 14 15:33	8°♄25'10	2.63754 AU
direct	13413 Jan 26 03:26	1°☾10'53					
asc. node	13413 Feb 24 10:43	6°☾41'27		conjunction	13418 May 02 19:41	20°♄18'07	-1°10'44
	13413 Apr 11 09:46	0°♂		minimum elong	13418 May 02 19:48	20°♄18'19	1°11'28
	13413 May 25 09:47	0°♍			13418 May 17 10:36	0°♂	
	13413 Jul 04 19:23	0°♊		morning rise	13418 Jun 17 19:16	21°♂14'58	
	13413 Aug 13 18:19	0°♌			13418 Jun 30 10:43	0°☾	
	13413 Sep 23 15:57	0°♈			13418 Aug 11 15:28	0°♂	
	13413 Nov 05 04:49	0°♄			13418 Sep 21 06:12	0°♍	
	13413 Dec 19 13:24	0°♋		asc. node	13418 Oct 17 11:20	19°♍50'46	
desc. node	13413 Dec 29 22:30	6°♋51'35			13418 Oct 30 18:07	0°♊	
evening set	13414 Jan 06 03:54	11°♋36'11			13418 Dec 08 22:26	0°♌	
	13414 Feb 03 11:54	0°♈			13419 Jan 18 01:51	0°♈	
					13419 Mar 02 15:33	0°♄	
conjunction	13414 Feb 22 00:11	11°♈52'34	-0°29'11		13419 Apr 29 12:27	0°♋	
minimum elong	13414 Feb 21 23:17	11°♈51'07	0°28'45	retrograde	13419 May 29 09:30	5°♋34'33	
max. Earth dist.	13414 Mar 01 14:11	16°♈42'54	2.67124 AU		13419 Jun 26 20:02	30°♈♄	
	13414 Mar 22 12:01	0°♍		min. Earth dist.	13419 Jun 30 19:47	28°♄31'23	0.56355 AU
morning rise	13414 Apr 07 00:21	9°♍48'49		opposition	13419 Jul 07 15:03	25°♄54'01	1°59'26
	13414 May 09 00:41	0°♄		greatest brilliancy	13419 Jul 07 03:39	26°♄05'02	-1.8m
	13414 Jun 25 17:43	0°♂		direct	13419 Aug 13 04:32	17°♄42'25	
	13414 Aug 12 16:27	0°☾		desc. node	13419 Aug 22 17:03	18°♄15'14	
	13414 Sep 30 13:45	0°♂			13419 Oct 03 08:07	0°♋	
	13414 Nov 22 11:35	0°♍			13419 Dec 03 09:58	0°♈	
asc. node	13415 Jan 12 17:53	19°♍44'23			13420 Jan 24 13:15	0°♍	
retrograde	13415 Jan 28 07:32	21°♍15'04			13420 Mar 13 03:54	0°♄	
opposition	13415 Feb 26 20:50	16°♍21'26	3°23'01	evening set	13420 Apr 24 18:10	27°♄47'09	
greatest brilliancy	13415 Feb 27 02:27	16°♍17'41	-3.0m		13420 Apr 28 01:24	0°♂	
min. Earth dist.	13415 Mar 01 12:43	15°♍38'34	0.36846 AU	max. Earth dist.	13420 May 11 06:45	8°♂57'43	2.54103 AU
direct	13415 Mar 29 02:01	11°♍10'21			13420 Jun 10 11:59	0°☾	
	13415 May 26 14:00	0°♊					
	13415 Jul 15 02:01	0°♌		conjunction	13420 Jun 12 13:08	1°☾27'15	-0°49'56
	13415 Aug 29 16:41	0°♈		minimum elong	13420 Jun 12 14:55	1°☾30'26	0°50'57
	13415 Oct 14 07:03	0°♄			13420 Jul 21 18:57	0°♂	
desc. node	13415 Nov 16 23:03	21°♄48'21		morning rise	13420 Aug 06 16:09	11°♂54'15	
	13415 Nov 29 17:39	0°♋			13420 Aug 30 09:18	0°♍	
	13416 Jan 15 23:00	0°♈		asc. node	13420 Sep 02 23:06	2°♍45'28	
evening set	13416 Feb 13 02:22	17°♈45'49			13420 Oct 07 22:05	0°♊	
	13416 Mar 03 11:24	0°♍			13420 Nov 15 04:29	0°♌	
max. Earth dist.	13416 Mar 22 19:15	12°♍14'17	2.68194 AU		13420 Dec 24 03:22	0°♈	
					13421 Feb 02 22:57	0°♄	
conjunction	13416 Mar 28 03:55	15°♍38'37	-1°00'34		13421 Mar 19 11:11	0°♋	
minimum elong	13416 Mar 28 02:53	15°♍36'59	1°00'45		13421 May 12 08:43	0°♈	
	13416 Apr 19 16:08	0°♄		retrograde	13421 Jul 04 10:24	14°♈08'07	
morning rise	13416 May 10 08:44	13°♄18'32		desc. node	13421 Jul 10 01:14	13°♈55'41	
	13416 Jun 05 00:43	0°♂		min. Earth dist.	13421 Aug 10 23:06	5°♈24'17	0.65649 AU
	13416 Jul 20 06:03	0°☾		opposition	13421 Aug 14 03:08	4°♈08'59	-1°19'23
	13416 Sep 02 05:39	0°♂		greatest brilliancy	13421 Aug 13 22:44	4°♈13'20	-1.4m
	13416 Oct 15 01:43	0°♍			13421 Aug 25 02:58	30°♈♋	
	13416 Nov 26 06:34	0°♊		direct	13421 Sep 22 21:13	24°♋49'58	
asc. node	13416 Nov 29 19:24	2°♊30'24			13421 Oct 24 14:52	0°♈	
	13417 Jan 08 10:17	0°♌			13421 Dec 31 12:23	0°♍	
	13417 Feb 28 04:19	0°♈			13422 Feb 21 08:58	0°♄	
retrograde	13417 Apr 11 09:44	11°♈14'31			13422 Apr 09 03:37	0°♂	
min. Earth dist.	13417 May 07 23:26	6°♈25'30	0.42780 AU		13422 May 22 13:13	0°☾	
greatest brilliancy	13417 May 14 10:49	4°♈17'33	-2.6m	evening set	13422 Jun 09 18:44	13°☾11'11	
opposition	13417 May 16 02:36	3°♈44'30	6°05'28	max. Earth dist.	13422 Jun 26 10:08	25°☾30'29	2.40670 AU
	13417 May 28 18:04	30°♈♌			13422 Jul 02 09:46	0°♂	
direct	13417 Jun 16 15:50	27°♌36'52		asc. node	13422 Jul 21 14:00	14°♂35'38	
	13417 Jul 06 11:22	0°♈					
	13417 Sep 14 11:33	0°♄		conjunction	13422 Aug 09 11:18	29°♂13'22	0°13'23
desc. node	13417 Oct 04 06:29	10°♄57'41		minimum elong	13422 Aug 09 10:05	29°♂11'00	0°12'45
	13417 Nov 06 04:18	0°♋		behind sun begin	13422 Aug 08 16:25	28°♂36'34	
	13417 Dec 26 07:04	0°♈		behind sun end	13422 Aug 10 03:45	29°♂45'27	
	13418 Feb 13 03:01	0°♍			13422 Aug 10 11:12	0°♍	
evening set	13418 Mar 19 08:52	21°♍32'15			13422 Sep 17 12:48	0°♊	
	13418 Apr 01 14:36	0°♄		morning rise	13422 Oct 21 02:34	26°♊33'43	



























































































































	13422 Oct 25 11:29	0°♌		asc. node	13428 Mar 13 00:04	2°♊42'13	
	13422 Dec 03 04:34	0°♏			13428 Apr 25 02:52	0°♏	
	13423 Jan 12 13:04	0°♊			13428 Jun 05 07:32	0°♎	
	13423 Feb 24 10:58	0°♐			13428 Jul 14 12:23	0°♑	
	13423 Apr 12 06:11	0°♏			13428 Aug 22 15:44	0°♌	
desc. node	13423 May 28 00:34	25°♏28'50			13428 Oct 01 20:48	0°♏	
	13423 Jun 06 09:43	0°♑			13428 Nov 12 19:06	0°♊	
retrograde	13423 Aug 07 11:41	17°♑16'20		evening set	13428 Dec 20 10:09	25°♊48'31	
opposition	13423 Sep 17 02:07	7°♑37'24 -3°34'12			13428 Dec 26 15:59	0°♐	
greatest brilliancy	13423 Sep 17 02:38	7°♑36'53 -1.2m		desc. node	13429 Jan 15 14:32	13°♐14'22	
min. Earth dist.	13423 Sep 17 17:54	7°♑21'51 0.68521 AU					
	13423 Oct 09 11:20	30°♏♏		conjunction	13429 Feb 07 10:41	28°♐09'27 -0°12'47	
direct	13423 Oct 28 11:39	27°♏43'34		minimum elong	13429 Feb 07 10:14	28°♐08'43 0°12'08	
	13423 Nov 17 17:32	0°♑		behind sun begin	13429 Feb 06 21:26	27°♐47'59	
	13424 Jan 28 17:29	0°♏		behind sun end	13429 Feb 07 23:02	28°♐29'27	
	13424 Mar 18 14:48	0°♐			13429 Feb 10 06:59	0°♏	
	13424 May 01 19:00	0°♊		max. Earth dist.	13429 Feb 20 18:40	6°♏45'42 2.65209 AU	
asc. node	13424 Jun 07 10:07	26°♊47'33		morning rise	13429 Mar 24 15:53	27°♏05'57	
	13424 Jun 11 16:16	0°♏			13429 Mar 29 05:54	0°♑	
	13424 Jul 20 13:18	0°♎			13429 May 16 02:29	0°♏	
evening set	13424 Aug 14 03:27	19°♎24'59			13429 Jul 03 18:15	0°♐	
	13424 Aug 27 11:20	0°♑			13429 Aug 22 20:34	0°♊	
	13424 Oct 04 09:47	0°♌			13429 Oct 16 10:02	0°♏	
				retrograde	13429 Dec 26 16:49	22°♏20'31	
conjunction	13424 Oct 25 19:49	16°♌40'14 1°06'24		opposition	13430 Jan 26 22:00	16°♏47'06 -0°10'22	
minimum elong	13424 Oct 25 19:26	16°♌39'30 1°07'05		greatest brilliancy	13430 Jan 26 23:37	16°♏45'53 -2.8m	
	13424 Nov 12 05:56	0°♏		asc. node	13430 Jan 29 08:39	16°♏03'01	
max. Earth dist.	13424 Dec 17 05:35	26°♏00'29 2.43099 AU		min. Earth dist.	13430 Feb 02 23:34	14°♏40'47 0.40254 AU	
	13424 Dec 22 17:42	0°♊		direct	13430 Mar 01 04:24	10°♏15'58	
morning rise	13424 Dec 30 14:37	5°♊39'26			13430 Apr 29 05:11	0°♎	
	13425 Feb 03 10:54	0°♐			13430 Jun 15 06:24	0°♑	
	13425 Mar 20 20:22	0°♏			13430 Jul 28 03:31	0°♌	
desc. node	13425 Apr 13 14:51	14°♏54'42			13430 Sep 08 23:14	0°♏	
	13425 May 08 17:52	0°♑			13430 Oct 22 22:15	0°♊	
	13425 Jul 03 14:43	0°♏		desc. node	13430 Dec 03 10:56	27°♊28'33	
retrograde	13425 Sep 11 12:09	20°♏19'51			13430 Dec 07 07:52	0°♐	
opposition	13425 Oct 20 16:53	11°♏23'44 -4°50'31			13431 Jan 22 22:11	0°♏	
greatest brilliancy	13425 Oct 21 10:17	11°♏06'54 -1.4m		evening set	13431 Jan 29 22:50	4°♏28'38	
min. Earth dist.	13425 Oct 25 06:01	9°♏38'14 0.64612 AU			13431 Mar 11 04:02	0°♑	
direct	13425 Dec 01 04:59	1°♏22'17					
	13426 Feb 21 00:32	0°♐		conjunction	13431 Mar 15 16:54	2°♑52'29 -0°50'36	
	13426 Apr 09 17:02	0°♊		minimum elong	13431 Mar 15 15:45	2°♑50'40 0°50'32	
asc. node	13426 Apr 25 13:48	11°♊02'45		max. Earth dist.	13431 Mar 15 03:36	2°♑31'25 2.68436 AU	
	13426 May 21 13:59	0°♏		morning rise	13431 Apr 27 20:20	0°♏16'21	
	13426 Jun 29 18:46	0°♎			13431 Apr 27 10:05	0°♏	
	13426 Aug 06 21:41	0°♑			13431 Jun 13 04:19	0°♐	
	13426 Sep 14 03:14	0°♌			13431 Jul 29 04:45	0°♊	
	13426 Oct 23 09:48	0°♏			13431 Sep 12 10:26	0°♏	
evening set	13426 Oct 28 14:41	3°♏53'16			13431 Oct 27 03:42	0°♎	
	13426 Dec 03 09:30	0°♊			13431 Dec 11 11:58	0°♑	
				asc. node	13431 Dec 17 11:07	3°♑48'39	
conjunction	13426 Dec 26 19:56	16°♊30'32 0°35'39			13432 Feb 01 05:19	0°♌	
minimum elong	13426 Dec 26 21:39	16°♊33'30 0°36'39		retrograde	13432 Mar 17 08:18	12°♌15'49	
	13427 Jan 15 11:15	0°♐		min. Earth dist.	13432 Apr 12 04:04	7°♌59'33 0.38316 AU	
max. Earth dist.	13427 Jan 26 10:17	7°♐24'12 2.56504 AU		greatest brilliancy	13432 Apr 16 16:42	6°♌41'27 -2.9m	
morning rise	13427 Feb 16 10:00	21°♐20'24		opposition	13432 Apr 18 01:06	6°♌17'58 6°44'39	
desc. node	13427 Mar 01 01:38	29°♐36'02		direct	13432 May 17 16:54	1°♌06'49	
	13427 Mar 01 16:25	0°♏			13432 Aug 06 12:58	0°♏	
	13427 Apr 17 23:52	0°♑			13432 Sep 27 01:01	0°♊	
	13427 Jun 06 16:46	0°♏		desc. node	13432 Oct 20 16:55	14°♊22'20	
	13427 Jul 30 21:25	0°♐			13432 Nov 15 04:56	0°♐	
retrograde	13427 Oct 25 10:35	28°♐35'43			13433 Jan 02 20:27	0°♏	
opposition	13427 Nov 30 15:18	20°♐54'42 -4°35'03			13433 Feb 20 00:56	0°♑	
greatest brilliancy	13427 Dec 02 00:37	20°♐24'14 -1.9m		evening set	13433 Mar 05 16:09	8°♑34'31	
min. Earth dist.	13427 Dec 08 17:01	17°♐58'02 0.54140 AU		max. Earth dist.	13433 Apr 05 14:31	28°♑14'33 2.66128 AU	
direct	13428 Jan 09 02:52	11°♐36'17			13433 Apr 08 08:15	0°♏	
	13428 Mar 08 00:46	0°♊					

conjunction	13433 Apr 18 14:23	6°♄36'37 -1°09'51			13438 Jun 25 11:47	0°♑	
minimum elong	13433 Apr 18 13:56	6°♄35'52 1°10'23	retrograde		13438 Jul 25 06:17	4°♑50'22	
	13433 May 24 07:43	0°♄			13438 Aug 21 19:00	30°♄♄	
morning rise	13433 Jun 01 23:23	5°♄45'37	min. Earth dist.		13438 Sep 03 05:07	25°♄20'46	0.68205 AU
	13433 Jul 07 17:13	0°♄	opposition		13438 Sep 04 01:29	25°♄00'37	-2°48'54
	13433 Aug 19 11:14	0°♄	greatest brilliancy		13438 Sep 03 22:08	25°♄03'57	-1.3m
	13433 Sep 29 17:25	0°♄	direct		13438 Oct 14 23:44	15°♄17'17	
asc. node	13433 Nov 03 06:41	25°♄46'12			13438 Dec 11 11:21	0°♑	
	13433 Nov 08 21:41	0°♄			13439 Feb 07 10:02	0°♄	
	13433 Dec 18 21:10	0°♄			13439 Mar 27 15:20	0°♄	
	13434 Jan 29 09:15	0°♄			13439 May 10 09:27	0°♄	
	13434 Mar 18 07:47	0°♄			13439 Jun 20 05:07	0°♄	
retrograde	13434 May 12 15:41	17°♄20'17	asc. node		13439 Jun 25 02:35	3°♄42'31	
min. Earth dist.	13434 Jun 11 17:08	11°♄07'51 0.51276 AU	evening set		13439 Jul 17 03:22	20°♄38'53	
opposition	13434 Jun 19 15:19	8°♄11'02 3°35'38			13439 Jul 29 02:58	0°♄	
greatest brilliancy	13434 Jun 18 15:48	8°♄32'56 -2.1m			13439 Sep 05 01:31	0°♄	
direct	13434 Jul 24 10:48	0°♄39'57					
desc. node	13434 Sep 08 03:39	11°♄02'31	conjunction		13439 Sep 25 23:16	16°♄35'25	0°56'29
	13434 Oct 19 04:38	0°♄	minimum elong		13439 Sep 25 19:30	16°♄27'57	0°56'38
	13434 Dec 12 15:21	0°♄			13439 Oct 12 23:04	0°♄	
	13435 Feb 01 02:04	0°♑	max. Earth dist.		13439 Nov 12 18:11	23°♄55'53	2.37659 AU
	13435 Mar 21 03:11	0°♄			13439 Nov 20 16:53	0°♄	
evening set	13435 Apr 10 14:50	13°♄14'03	morning rise		13439 Dec 07 04:55	12°♄26'24	
max. Earth dist.	13435 Apr 30 13:06	26°♄23'05 2.58470 AU			13439 Dec 31 01:52	0°♄	
	13435 May 05 22:48	0°♄			13440 Feb 11 18:16	0°♄	
					13440 Mar 28 10:52	0°♄	
conjunction	13435 May 27 02:09	14°♄21'12 -1°02'33	desc. node		13440 Apr 30 09:16	20°♄05'16	
minimum elong	13435 May 27 03:22	14°♄23'17 1°03'31			13440 May 17 16:39	0°♑	
	13435 Jun 18 13:50	0°♄			13440 Jul 20 11:07	0°♄	
morning rise	13435 Jul 16 12:49	20°♄00'43	retrograde		13440 Aug 27 22:30	7°♄23'14	
	13435 Jul 30 04:13	0°♄			13440 Oct 01 23:52	30°♄♑	
	13435 Sep 08 02:43	0°♄	opposition		13440 Oct 06 20:28	28°♑07'33	-4°28'38
asc. node	13435 Sep 20 20:23	9°♄46'24	greatest brilliancy		13440 Oct 07 06:26	27°♑57'49	-1.3m
	13435 Oct 16 22:38	0°♄	min. Earth dist.		13440 Oct 09 21:07	26°♑56'39	0.66970 AU
	13435 Nov 24 10:46	0°♄	direct		13440 Nov 17 12:32	18°♑05'10	
	13436 Jan 02 15:47	0°♄			13441 Jan 05 23:02	0°♄	
	13436 Feb 12 23:56	0°♄			13441 Mar 03 19:44	0°♄	
	13436 Mar 30 06:50	0°♄			13441 Apr 18 12:34	0°♄	
	13436 Jun 13 05:44	0°♄	asc. node		13441 May 12 04:26	16°♄54'14	
retrograde	13436 Jun 20 17:23	0°♄21'53			13441 May 29 20:12	0°♄	
	13436 Jun 28 01:10	30°♄♄			13441 Jul 07 20:05	0°♄	
min. Earth dist.	13436 Jul 26 10:23	22°♄12'41 0.62745 AU			13441 Aug 14 19:39	0°♄	
desc. node	13436 Jul 26 12:35	22°♄10'32			13441 Sep 21 20:56	0°♄	
opposition	13436 Jul 31 01:32	20°♄22'59 -0°10'52	evening set		13441 Oct 01 06:08	7°♄18'11	
greatest brilliancy	13436 Jul 31 00:47	20°♄23'43 -1.6m			13441 Oct 30 21:53	0°♄	
direct	13436 Sep 07 18:23	11°♄25'17					
	13436 Nov 13 04:10	0°♄	conjunction		13441 Dec 05 16:46	26°♄26'18	0°53'00
	13437 Jan 09 20:24	0°♑	minimum elong		13441 Dec 05 19:04	26°♄30'28	0°54'01
	13437 Mar 01 00:29	0°♄			13441 Dec 10 15:19	0°♄	
	13437 Apr 16 08:03	0°♄	max. Earth dist.		13442 Jan 13 18:26	24°♄01'14	2.51694 AU
evening set	13437 May 21 04:46	23°♄58'12			13442 Jan 22 11:50	0°♄	
	13437 May 29 16:58	0°♄	morning rise		13442 Jan 30 17:07	5°♄34'36	
max. Earth dist.	13437 Jun 03 18:34	3°♄37'29 2.46124 AU			13442 Mar 08 16:05	0°♄	
	13437 Jul 09 16:49	0°♄	desc. node		13442 Mar 17 19:38	5°♄53'12	
					13442 Apr 25 08:36	0°♑	
conjunction	13437 Jul 15 00:25	3°♄59'53 -0°16'09			13442 Jun 15 11:48	0°♄	
minimum elong	13437 Jul 15 01:38	4°♄02'09 0°17'03			13442 Aug 14 18:20	0°♄	
asc. node	13437 Aug 07 08:08	21°♄47'26	retrograde		13442 Oct 06 20:44	12°♄51'08	
	13437 Aug 17 22:41	0°♄	opposition		13442 Nov 13 11:21	4°♄35'22	-4°57'11
morning rise	13437 Sep 18 22:02	25°♄04'00	greatest brilliancy		13442 Nov 14 16:09	4°♄08'13	-1.6m
	13437 Sep 25 03:59	0°♄	min. Earth dist.		13442 Nov 20 07:11	2°♄01'11	0.58970 AU
	13437 Nov 02 04:42	0°♄			13442 Nov 25 22:37	30°♄♄	
	13437 Dec 10 22:32	0°♄	direct		13442 Dec 24 01:57	24°♄50'34	
	13438 Jan 20 08:25	0°♄			13443 Jan 22 15:56	0°♄	
	13438 Mar 04 13:46	0°♄			13443 Mar 23 15:34	0°♄	
	13438 Apr 21 17:11	0°♄	asc. node		13443 Mar 30 11:36	4°♄20'44	
desc. node	13438 Jun 13 15:40	25°♄58'58			13443 May 06 18:26	0°♄	

	13443 Jun 15 19:10	0°♎		minimum elong	13448 Apr 04 20:18	23°♊28'30	1°05'20
	13443 Jul 24 09:32	0°♏			13448 Apr 15 01:06	0°♏	
	13443 Sep 01 01:11	0°♎		morning rise	13448 May 18 08:28	21°♏32'36	
	13443 Oct 10 18:45	0°♊			13448 May 31 06:05	0°♎	
	13443 Nov 21 05:49	0°♏			13448 Jul 15 03:44	0°♏	
evening set	13443 Dec 02 16:01	8°♏01'20			13448 Aug 27 15:28	0°♏	
	13444 Jan 03 17:03	0°♏			13448 Oct 08 19:42	0°♎	
					13448 Nov 19 02:23	0°♏	
conjunction	13444 Jan 23 18:45	13°♏24'49	0°05'27	asc. node	13448 Nov 20 00:55	0°♏41'07	
minimum elong	13444 Jan 23 19:01	13°♏25'16	0°06'17		13448 Dec 30 14:54	0°♎	
behind sun begin	13444 Jan 22 23:56	12°♏53'41			13449 Feb 13 13:50	0°♊	
behind sun end	13444 Jan 24 14:06	13°♏56'50		retrograde	13449 Apr 23 12:59	25°♊44'44	
desc. node	13444 Feb 02 07:22	19°♏41'42		min. Earth dist.	13449 May 21 05:25	20°♊27'24	0.45762 AU
max. Earth dist.	13444 Feb 12 07:28	26°♏14'22	2.62428 AU	greatest brilliancy	13449 May 28 03:36	18°♊02'51	-2.4m
	13444 Feb 18 02:15	0°♋		opposition	13449 May 29 15:27	17°♊31'31	5°15'51
morning rise	13444 Mar 10 20:43	14°♋00'45		direct	13449 Jul 01 08:34	10°♊51'48	
	13444 Apr 05 01:58	0°♊			13449 Sep 04 06:12	0°♏	
	13444 May 23 10:22	0°♏		desc. node	13449 Sep 24 12:50	10°♏09'40	
	13444 Jul 12 11:18	0°♎			13449 Oct 30 16:37	0°♏	
	13444 Sep 04 08:21	0°♏			13449 Dec 20 23:35	0°♋	
retrograde	13444 Nov 28 19:10	28°♏41'16			13450 Feb 08 07:30	0°♊	
opposition	13445 Jan 01 01:30	22°♏12'37	-2°41'57	evening set	13450 Mar 27 06:40	29°♊32'54	
greatest brilliancy	13445 Jan 02 01:43	21°♏52'23	-2.4m		13450 Mar 27 23:34	0°♏	
min. Earth dist.	13445 Jan 09 17:04	19°♏20'10	0.45486 AU	max. Earth dist.	13450 Apr 20 04:24	15°♏01'45	2.62088 AU
direct	13445 Feb 06 09:54	14°♏17'12					
asc. node	13445 Feb 14 20:41	14°♏47'47		conjunction	13450 May 11 06:22	28°♏57'53	-1°09'16
	13445 Mar 30 08:13	0°♏		minimum elong	13450 May 11 06:52	28°♏58'43	1°10'06
	13445 May 17 10:01	0°♎			13450 May 12 19:33	0°♎	
	13445 Jun 28 01:44	0°♏			13450 Jun 25 16:33	0°♏	
	13445 Aug 07 17:05	0°♎		morning rise	13450 Jun 27 12:56	1°♏17'38	
	13445 Sep 18 02:39	0°♊			13450 Aug 06 15:59	0°♏	
	13445 Oct 31 00:55	0°♏			13450 Sep 16 00:28	0°♎	
	13445 Dec 14 16:31	0°♏		asc. node	13450 Oct 07 16:30	16°♎29'57	
desc. node	13445 Dec 20 01:53	3°♏33'00			13450 Oct 25 05:51	0°♏	
evening set	13446 Jan 15 01:44	20°♏29'57			13450 Dec 03 02:48	0°♎	
	13446 Jan 29 19:21	0°♋			13451 Jan 11 19:10	0°♊	
					13451 Feb 23 04:41	0°♏	
conjunction	13446 Mar 02 00:23	19°♋56'29	-0°37'49		13451 Apr 14 18:32	0°♏	
minimum elong	13446 Mar 01 23:19	19°♋54'48	0°37'30	retrograde	13451 Jun 07 04:57	15°♏21'18	
max. Earth dist.	13446 Mar 06 14:48	22°♋51'57	2.67816 AU	min. Earth dist.	13451 Jul 10 20:54	7°♏52'26	0.58891 AU
	13446 Mar 17 20:37	0°♊		opposition	13451 Jul 16 21:56	5°♏30'57	1°08'28
morning rise	13446 Apr 14 14:00	17°♊33'21		greatest brilliancy	13451 Jul 16 16:04	5°♏36'41	-1.7m
	13446 May 04 05:59	0°♏			13451 Aug 01 19:43	30°♋♏	
	13446 Jun 20 13:34	0°♎		desc. node	13451 Aug 12 23:40	27°♏41'50	
	13446 Aug 06 16:41	0°♏		direct	13451 Aug 23 07:31	27°♏00'42	
	13446 Sep 22 21:32	0°♏			13451 Sep 15 14:02	0°♏	
	13446 Nov 10 07:59	0°♎			13451 Nov 26 14:21	0°♋	
asc. node	13447 Jan 03 03:15	28°♎53'28			13452 Jan 19 05:31	0°♊	
	13447 Jan 05 17:25	0°♏			13452 Mar 08 08:06	0°♏	
retrograde	13447 Feb 15 19:22	9°♏44'05			13452 Apr 23 09:21	0°♎	
opposition	13447 Mar 17 12:36	4°♏47'58	5°13'51	evening set	13452 May 03 19:56	7°♎03'22	
greatest brilliancy	13447 Mar 17 06:48	4°♏51'49	-3.0m	max. Earth dist.	13452 May 18 18:27	17°♎19'21	2.51429 AU
min. Earth dist.	13447 Mar 16 19:31	4°♏59'18	0.36368 AU		13452 Jun 05 19:54	0°♏	
	13447 Apr 13 00:41	30°♋♎					
direct	13447 Apr 15 18:21	29°♎56'54		conjunction	13452 Jun 23 08:40	12°♏35'13	-0°39'43
	13447 Apr 18 12:01	0°♏		minimum elong	13452 Jun 23 10:34	12°♏38'40	0°40'44
	13447 Jul 04 14:33	0°♎			13452 Jul 17 00:43	0°♏	
	13447 Aug 22 07:26	0°♊		morning rise	13452 Aug 20 20:56	26°♏25'34	
	13447 Oct 08 06:42	0°♏		asc. node	13452 Aug 24 05:40	29°♏01'10	
desc. node	13447 Nov 07 03:30	19°♏01'37			13452 Aug 25 12:08	0°♎	
	13447 Nov 24 11:08	0°♏			13452 Oct 02 22:01	0°♏	
	13448 Jan 11 02:33	0°♋			13452 Nov 10 01:35	0°♎	
evening set	13448 Feb 20 23:46	25°♋41'24			13452 Dec 18 21:20	0°♊	
	13448 Feb 27 19:54	0°♊			13453 Jan 28 11:11	0°♏	
max. Earth dist.	13448 Mar 27 19:12	18°♊20'46	2.67682 AU		13453 Mar 13 06:57	0°♏	
					13453 May 03 00:54	0°♋	
conjunction	13448 Apr 04 21:11	23°♊29'53	-1°05'02	desc. node	13453 Jun 30 04:58	21°♋17'01	

retrograde	13453 Jul 12 02:31	22° H 08'54		conjunction	13459 Jan 06 12:54	27° Z 09'04	0°24'38
min. Earth dist.	13453 Aug 19 13:08	13° H 07'31	0.66852 AU	minimum elong	13459 Jan 06 14:05	27° Z 11'05	0°25'35
opposition	13453 Aug 21 21:14	12° H 11'54	-1°55'10		13459 Jan 10 17:27	0° \approx	
greatest brilliancy	13453 Aug 21 16:20	12° H 16'45	-1.3m	max. Earth dist.	13459 Feb 01 21:02	14° \approx 51'28	2.58839 AU
direct	13453 Oct 01 02:28	2° H 42'58		desc. node	13459 Feb 19 02:07	26° \approx 10'54	
	13453 Dec 24 12:19	0° Y			13459 Feb 24 22:52	0° H	
	13454 Feb 15 23:37	0° B		morning rise	13459 Feb 25 05:44	0° H 11'10	
	13454 Apr 04 05:26	0° II			13459 Apr 13 01:52	0° Y	
	13454 May 17 18:23	0° E			13459 Jun 01 03:43	0° B	
evening set	13454 Jun 22 03:17	25° E 52'30			13459 Jul 23 08:28	0° II	
	13454 Jun 27 15:03	0° O			13459 Sep 24 08:28	0° E	
asc. node	13454 Jul 11 20:19	10° O 48'05		retrograde	13459 Nov 06 06:00	9° E 00'33	
max. Earth dist.	13454 Jul 18 02:24	15° O 36'10	2.37941 AU	opposition	13459 Dec 11 11:12	1° E 42'41	-4°07'08
	13454 Aug 05 15:33	0° M		greatest brilliancy	13459 Dec 12 20:12	1° E 13'12	-2.1m
					13459 Dec 16 05:48	30° R II	
conjunction	13454 Aug 25 14:36	15° M 41'38	0°30'57	min. Earth dist.	13459 Dec 19 23:34	28° II 40'45	0.51158 AU
minimum elong	13454 Aug 25 11:36	15° M 35'42	0°30'33	direct	13460 Jan 19 01:08	22° II 46'57	
	13454 Sep 12 16:12	0° A			13460 Feb 22 07:33	0° E	
	13454 Oct 20 14:06	0° M		asc. node	13460 Mar 03 09:25	4° E 16'32	
morning rise	13454 Nov 08 00:31	14° M 24'34			13460 Apr 17 05:52	0° O	
	13454 Nov 28 06:37	0° A			13460 May 29 18:24	0° M	
	13455 Jan 07 13:58	0° Z			13460 Jul 08 13:30	0° A	
	13455 Feb 19 07:35	0° \approx			13460 Aug 17 02:04	0° M	
	13455 Apr 06 12:50	0° H			13460 Sep 26 14:31	0° A	
desc. node	13455 May 18 01:59	24° H 11'15			13460 Nov 07 19:14	0° Z	
	13455 May 29 03:03	0° Y			13460 Dec 21 20:58	0° \approx	
retrograde	13455 Aug 15 03:41	24° Y 52'07		evening set	13460 Dec 30 02:47	5° \approx 28'41	
opposition	13455 Sep 24 13:40	15° Y 20'33	-3°57'00	desc. node	13461 Jan 05 16:52	9° \approx 49'52	
greatest brilliancy	13455 Sep 24 17:11	15° Y 17'06	-1.3m		13461 Feb 05 15:00	0° H	
min. Earth dist.	13455 Sep 26 01:48	14° Y 45'02	0.68261 AU				
direct	13455 Nov 05 03:04	5° Y 22'22		conjunction	13461 Feb 15 20:07	6° H 34'49	-0°22'37
	13456 Jan 21 09:52	0° B		minimum elong	13461 Feb 15 19:22	6° H 33'38	0°22'05
	13456 Mar 13 00:37	0° II		max. Earth dist.	13461 Feb 26 00:05	13° H 05'43	2.66369 AU
	13456 Apr 26 16:09	0° E			13461 Mar 24 13:47	0° Y	
asc. node	13456 May 28 17:54	23° E 17'03		morning rise	13461 Apr 01 07:37	4° Y 53'53	
	13456 Jun 06 16:49	0° O			13461 May 11 05:12	0° B	
	13456 Jul 15 14:47	0° M			13461 Jun 28 07:13	0° II	
	13456 Aug 22 13:12	0° A			13461 Aug 16 01:17	0° E	
evening set	13456 Aug 31 14:18	7° A 10'48			13461 Oct 05 18:31	0° O	
	13456 Sep 29 12:12	0° M			13461 Dec 05 02:55	0° M	
	13456 Nov 07 09:22	0° A		retrograde	13462 Jan 13 16:52	8° M 27'49	
				asc. node	13462 Jan 19 16:34	8° M 13'58	
conjunction	13456 Nov 10 17:22	2° A 31'13	1°04'44	opposition	13462 Feb 12 18:01	3° M 21'21	1°47'21
minimum elong	13456 Nov 10 18:42	2° A 33'45	1°05'35	greatest brilliancy	13462 Feb 13 01:00	3° M 16'28	-2.9m
	13456 Dec 17 22:15	0° Z		min. Earth dist.	13462 Feb 17 17:56	1° M 57'41	0.38021 AU
max. Earth dist.	13456 Dec 28 17:34	7° Z 44'54	2.46268 AU		13462 Feb 25 08:24	30° R O	
morning rise	13457 Jan 11 16:15	17° Z 35'16		direct	13462 Mar 16 05:17	27° O 38'57	
	13457 Jan 29 15:13	0° \approx			13462 Apr 03 19:27	0° M	
	13457 Mar 15 20:55	0° H			13462 Jun 04 22:55	0° A	
desc. node	13457 Apr 03 15:56	11° H 56'05			13462 Jul 20 12:18	0° M	
	13457 May 03 04:00	0° Y			13462 Sep 02 14:43	0° A	
	13457 Jun 25 15:49	0° B			13462 Oct 17 08:41	0° Z	
retrograde	13457 Sep 20 06:37	28° B 32'37		desc. node	13462 Nov 23 16:00	24° Z 26'20	
opposition	13457 Oct 28 23:40	19° B 49'18	-4°57'28		13462 Dec 02 06:17	0° \approx	
greatest brilliancy	13457 Oct 29 21:23	19° B 28'26	-1.5m		13463 Jan 18 03:56	0° H	
min. Earth dist.	13457 Nov 03 08:52	17° B 45'19	0.62888 AU	evening set	13463 Feb 07 01:48	12° H 37'13	
direct	13457 Dec 09 06:37	9° B 51'04			13463 Mar 06 13:04	0° Y	
	13458 Feb 12 14:05	0° II		max. Earth dist.	13463 Mar 20 02:57	8° Y 36'02	2.68411 AU
	13458 Apr 03 13:55	0° E					
asc. node	13458 Apr 16 00:18	8° E 26'59		conjunction	13463 Mar 23 09:09	10° Y 40'00	-0°56'49
	13458 May 16 01:30	0° O		minimum elong	13463 Mar 23 08:03	10° Y 38'15	0°56'53
	13458 Jun 24 11:55	0° M			13463 Apr 22 18:21	0° B	
	13458 Aug 01 17:57	0° A		morning rise	13463 May 05 11:58	8° B 09'07	
	13458 Sep 09 01:56	0° M			13463 Jun 08 07:34	0° II	
	13458 Oct 18 11:07	0° A			13463 Jul 23 21:25	0° E	
evening set	13458 Nov 11 05:34	17° A 31'21			13463 Sep 06 09:42	0° O	
	13458 Nov 28 13:38	0° Z			13463 Oct 19 23:22	0° M	

	13463 Dec 02 05:42	0°♄			13469 Apr 11 12:58	0°♄		
asc. node	13463 Dec 07 19:31	3°♄49'36			13469 May 24 23:43	0°♄		
	13464 Jan 16 12:50	0°♄		evening set	13469 May 31 22:07	4°♄57'51		
retrograde	13464 Apr 01 01:19	29°♄40'50		max. Earth dist.	13469 Jun 15 02:50	15°♄16'44	2.43096 AU	
min. Earth dist.	13464 Apr 27 00:37	25°♄11'03	0.40567 AU		13469 Jul 04 22:50	0°♄		
greatest brilliancy	13464 May 02 20:19	23°♄22'17	-2.7m					
opposition	13464 May 04 11:37	22°♄51'22	6°34'02	conjunction	13469 Jul 28 18:58	18°♄07'48	0°00'07	
direct	13464 Jun 04 03:09	17°♄10'24		minimum elong	13469 Jul 28 19:04	18°♄07'59	0°00'39	
	13464 Jul 23 21:02	0°♄		behind sun begin	13469 Jul 27 16:24	17°♄16'45		
	13464 Sep 19 10:34	0°♄		behind sun end	13469 Jul 29 21:43	18°♄59'16		
desc. node	13464 Oct 10 22:17	12°♄29'16		asc. node	13469 Jul 28 14:54	18°♄00'01		
	13464 Nov 09 08:04	0°♄			13469 Aug 13 02:51	0°♄		
	13464 Dec 28 18:05	0°♄			13469 Sep 20 06:20	0°♄		
	13465 Feb 15 07:10	0°♄		morning rise	13469 Oct 06 18:56	13°♄04'57		
evening set	13465 Mar 13 11:23	16°♄27'19			13469 Oct 28 05:33	0°♄		
	13465 Apr 03 17:16	0°♄			13469 Dec 05 22:00	0°♄		
max. Earth dist.	13465 Apr 10 20:39	4°♄35'42	2.64921 AU		13470 Jan 15 05:40	0°♄		
					13470 Feb 27 04:15	0°♄		
conjunction	13465 Apr 26 14:43	14°♄49'10	-1°10'55		13470 Apr 15 08:14	0°♄		
minimum elong	13465 Apr 26 14:35	14°♄48'56	1°11'34	desc. node	13470 Jun 03 18:46	26°♄27'16		
	13465 May 19 15:38	0°♄			13470 Jun 11 20:21	0°♄		
morning rise	13465 Jun 10 18:39	14°♄51'47		retrograde	13470 Aug 01 19:52	12°♄28'15		
	13465 Jul 02 20:44	0°♄		opposition	13470 Sep 11 12:42	2°♄44'13	-3°16'37	
	13465 Aug 14 08:07	0°♄		greatest brilliancy	13470 Sep 11 11:16	2°♄45'38	-1.3m	
	13465 Sep 24 06:02	0°♄		min. Earth dist.	13470 Sep 11 12:36	2°♄44'19	0.68508 AU	
asc. node	13465 Oct 24 13:17	22°♄47'43			13470 Sep 18 13:19	30°♄		
	13465 Nov 03 01:04	0°♄		direct	13470 Oct 22 17:15	22°♄54'34		
	13465 Dec 12 12:21	0°♄			13470 Nov 29 09:08	0°♄		
	13466 Jan 22 02:01	0°♄			13471 Feb 01 04:17	0°♄		
	13466 Mar 07 19:49	0°♄			13471 Mar 22 09:12	0°♄		
retrograde	13466 May 22 10:21	28°♄30'28			13471 May 05 10:34	0°♄		
min. Earth dist.	13466 Jun 22 19:13	21°♄49'09	0.54150 AU	asc. node	13471 Jun 15 10:01	0°♄03'03		
greatest brilliancy	13466 Jun 29 11:11	19°♄17'05	-1.9m		13471 Jun 15 08:24	0°♄		
opposition	13466 Jun 30 03:27	19°♄01'34	2°39'13		13471 Jul 24 06:31	0°♄		
direct	13466 Aug 04 23:06	11°♄06'45		evening set	13471 Aug 01 23:18	6°♄50'13		
desc. node	13466 Aug 29 08:44	14°♄26'47			13471 Aug 31 05:01	0°♄		
	13466 Oct 09 23:01	0°♄			13471 Oct 08 02:38	0°♄		
	13466 Dec 06 14:39	0°♄						
	13467 Jan 26 23:52	0°♄		conjunction	13471 Oct 13 13:50	4°♄17'17	1°04'17	
	13467 Mar 16 09:19	0°♄		minimum elong	13471 Oct 13 11:47	4°♄13'17	1°04'47	
evening set	13467 Apr 19 02:31	21°♄52'35			13471 Nov 15 20:42	0°♄		
	13467 May 01 07:11	0°♄		max. Earth dist.	13471 Dec 06 13:57	15°♄34'28	2.40544 AU	
max. Earth dist.	13467 May 07 00:22	3°♄50'57	2.56145 AU	morning rise	13471 Dec 21 11:23	26°♄32'04		
					13471 Dec 26 05:52	0°♄		
conjunction	13467 Jun 05 17:34	24°♄16'46	-0°56'05		13472 Feb 06 20:50	0°♄		
minimum elong	13467 Jun 05 19:09	24°♄19'32	0°57'06		13472 Mar 23 07:07	0°♄		
	13467 Jun 13 20:52	0°♄		desc. node	13472 Apr 20 10:00	17°♄29'00		
	13467 Jul 25 08:06	0°♄			13472 May 11 13:57	0°♄		
morning rise	13467 Jul 28 13:14	2°♄22'59			13472 Jul 08 14:13	0°♄		
	13467 Sep 03 02:40	0°♄		retrograde	13472 Sep 05 03:16	15°♄12'47		
asc. node	13467 Sep 11 01:07	6°♄06'10		opposition	13472 Oct 14 16:22	6°♄07'33	-4°42'42	
	13467 Oct 11 18:57	0°♄		greatest brilliancy	13472 Oct 15 06:29	5°♄53'50	-1.3m	
	13467 Nov 19 03:32	0°♄		min. Earth dist.	13472 Oct 18 13:32	4°♄37'03	0.65789 AU	
	13467 Dec 28 03:56	0°♄			13472 Oct 31 12:34	30°♄		
	13468 Feb 07 02:37	0°♄		direct	13472 Nov 25 06:53	26°♄04'52		
	13468 Mar 23 02:26	0°♄			13472 Dec 21 18:12	0°♄		
	13468 May 19 09:05	0°♄			13473 Feb 25 02:40	0°♄		
retrograde	13468 Jun 28 15:47	8°♄50'15			13473 Apr 12 22:01	0°♄		
desc. node	13468 Jul 16 17:54	6°♄37'01		asc. node	13473 May 02 12:13	13°♄47'38		
min. Earth dist.	13468 Aug 04 09:22	0°♄21'02	0.64468 AU		13473 May 24 14:04	0°♄		
	13468 Aug 05 06:41	30°♄			13473 Jul 02 17:10	0°♄		
opposition	13468 Aug 08 04:48	28°♄50'29	-0°52'14		13473 Aug 09 18:44	0°♄		
greatest brilliancy	13468 Aug 08 01:23	28°♄53'52	-1.5m		13473 Sep 16 21:55	0°♄		
direct	13468 Sep 16 11:39	19°♄40'20		evening set	13473 Oct 17 03:37	23°♄16'49		
	13468 Nov 02 09:03	0°♄			13473 Oct 26 00:57	0°♄		
	13469 Jan 03 18:14	0°♄			13473 Dec 05 20:37	0°♄		
	13469 Feb 23 21:41	0°♄						

conjunction	13473 Dec 18 00:34	8°  39'46	0°43'25			13478 Dec 19 02:45	0° 	
minimum elong	13473 Dec 18 02:38	8°  43'26	0°44'27	asc. node		13478 Dec 24 10:57	3°  05'43	
	13474 Jan 17 18:27	0° 		retrograde		13479 Mar 05 15:00	28°  39'55	
max. Earth dist.	13474 Jan 21 05:49	2°  21'46	2.54437 AU	min. Earth dist.		13479 Apr 01 06:21	24°  20'53	0.37038 AU
morning rise	13474 Feb 09 09:47	15°  13'58		greatest brilliancy		13479 Apr 04 05:23	23°  32'28	-3.0m
	13474 Mar 03 21:39	0° 		opposition		13479 Apr 05 03:10	23°  17'34	6°25'02
desc. node	13474 Mar 07 21:07	2°  34'31		direct		13479 May 04 05:51	18°  23'08	
	13474 Apr 20 07:05	0° 				13479 Jun 19 00:31	0° 	
	13474 Jun 09 11:22	0° 				13479 Aug 13 19:36	0° 	
	13474 Aug 04 12:18	0° 				13479 Oct 01 20:26	0° 	
retrograde	13474 Oct 17 02:19	22°  03'55		desc. node		13479 Oct 28 08:40	16°  30'18	
opposition	13474 Nov 22 22:51	14°  06'23	-4°47'25			13479 Nov 19 00:14	0° 	
greatest brilliancy	13474 Nov 24 06:39	13°  06'49	-1.8m			13480 Jan 06 04:00	0° 	
min. Earth dist.	13474 Nov 30 11:57	11°  06'21	0.56401 AU			13480 Feb 23 03:17	0° 	
direct	13475 Jan 01 23:57	4°  03'55		evening set		13480 Feb 28 19:44	3°  03'36	
	13475 Mar 15 07:04	0° 		max. Earth dist.		13480 Apr 01 21:41	24°  32'58	2.66935 AU
asc. node	13475 Mar 20 21:53	3°  09'16				13480 Apr 10 10:00	0° 	
	13475 Apr 30 07:37	0° 						
	13475 Jun 09 22:40	0° 		conjunction		13480 Apr 12 16:00	1°  26'39	-1°08'20
	13475 Jul 18 20:19	0° 		minimum elong		13480 Apr 12 15:21	1°  25'37	1°08'46
	13475 Aug 26 17:25	0° 		morning rise		13480 May 26 13:22	0° 	
	13475 Oct 05 15:54	0° 				13480 May 26 12:39	0° 	
	13475 Nov 16 07:49	0° 				13480 Jul 10 04:05	0° 	
evening set	13475 Dec 13 14:20	18°  54'30				13480 Aug 22 06:26	0° 	
	13475 Dec 29 22:57	0° 				13480 Oct 02 22:07	0° 	
desc. node	13476 Jan 23 09:20	16°  15'24		asc. node		13480 Nov 10 07:49	28°  07'21'08	
						13480 Nov 12 13:02	0° 	
conjunction	13476 Feb 01 20:37	22°  28'12	-0°05'23			13480 Dec 23 01:17	0° 	
minimum elong	13476 Feb 01 20:27	22°  27'56	0°04'41			13481 Feb 03 13:22	0° 	
behind sun begin	13476 Feb 01 01:13	21°  28'31				13481 Mar 28 03:51	0° 	
behind sun end	13476 Feb 02 15:41	22°  28'59'19		retrograde		13481 May 04 17:25	8°  55'30	
	13476 Feb 13 10:16	0° 		min. Earth dist.		13481 Jun 02 16:12	3°  07'44	0.48832 AU
max. Earth dist.	13476 Feb 17 20:38	2°  52'09	2.64081 AU	opposition		13481 Jun 10 22:43	0°  07'52	4°19'13
morning rise	13476 Mar 18 19:29	22°  03'25		greatest brilliancy		13481 Jun 09 17:37	0°  34'20	-2.2m
	13476 Mar 31 08:29	0° 				13481 Jun 11 07:24	30°  08'27	
	13476 May 18 09:14	0° 		direct		13481 Jul 14 21:16	22°  27'58'14	
	13476 Jul 06 13:30	0° 				13481 Aug 20 04:32	0° 	
	13476 Aug 26 23:11	0° 		desc. node		13481 Sep 14 19:14	10°  32'54'45	
	13476 Oct 25 14:19	0° 				13481 Oct 23 12:26	0° 	
retrograde	13476 Dec 13 19:13	11°  05'40'00				13481 Dec 15 10:19	0° 	
opposition	13477 Jan 14 23:10	5°  05'55'35	-1°24'48			13482 Feb 03 09:03	0° 	
greatest brilliancy	13477 Jan 15 11:56	5°  05'45'30	-2.6m			13482 Mar 23 06:49	0° 	
min. Earth dist.	13477 Jan 23 01:16	3°  02'31'14	0.42474 AU	evening set		13482 Apr 04 09:04	7°  08'46'40	
asc. node	13477 Feb 05 07:12	0°  01'34		max. Earth dist.		13482 Apr 26 01:22	21°  08'57'15	2.60191 AU
	13477 Feb 05 10:35	30°  08'28				13482 May 08 03:44	0° 	
direct	13477 Feb 18 16:16	28°  04'44'29						
	13477 Mar 04 02:24	0° 		conjunction		13482 May 20 02:10	8°  02'21	-1°06'05
	13477 May 07 18:19	0° 		minimum elong		13482 May 20 03:04	8°  03'54	1°07'00
	13477 Jun 20 14:59	0° 				13482 Jun 20 22:30	0° 	
	13477 Aug 01 06:51	0° 		morning rise		13482 Jul 07 23:00	12°  03'03'04	
	13477 Sep 12 08:04	0° 				13482 Aug 01 18:00	0° 	
	13477 Oct 25 17:52	0° 				13482 Sep 10 21:31	0° 	
	13477 Dec 09 17:46	0° 		asc. node		13482 Sep 27 22:38	13°  07'01'47	
desc. node	13477 Dec 10 04:16	0° 				13482 Oct 19 21:51	0° 	
evening set	13478 Jan 23 16:20	29°  06'03				13482 Nov 27 13:24	0° 	
	13478 Jan 25 02:02	0° 				13483 Jan 05 21:38	0° 	
						13483 Feb 16 12:53	0° 	
conjunction	13478 Mar 09 21:13	27°  53'08	-0°45'39			13483 Apr 04 23:12	0° 	
minimum elong	13478 Mar 09 20:05	27°  51'20	0°45'29	retrograde		13483 Jun 15 15:14	24°  33'55'05	
max. Earth dist.	13478 Mar 11 14:45	28°  58'57	2.68268 AU	min. Earth dist.		13483 Jul 20 10:49	16°  33'42'47	0.61129 AU
	13478 Mar 13 05:16	0° 		opposition		13483 Jul 25 16:55	14°  33'38'43	0°20'55
morning rise	13478 Apr 22 03:28	25°  03'18'42		greatest brilliancy		13483 Jul 25 15:22	14°  33'40'15	-1.6m
	13478 Apr 29 12:36	0° 		desc. node		13483 Aug 03 05:01	11°  33'25'31	
	13478 Jun 15 12:40	0°		direct		13483 Sep 01 20:00	5° 33'52'25	
	13478 Aug 01 00:09	0°				13483 Nov 18 21:22	0°	
	13478 Sep 16 00:26	0°				13484 Jan 13 15:37	0°	
	13478 Nov 01 00:46	0°				13484 Mar 03 09:20	0°	

	13484 Apr 18 15:32	0°♐		max. Earth dist.	13489 Jan 07 11:20	17°♊59'50	2.49333 AU
evening set	13484 May 13 11:03	16°♐54'48		morning rise	13489 Jan 22 19:32	28°♊36'36	
max. Earth dist.	13484 May 27 07:32	26°♐36'33	2.48544 AU		13489 Jan 24 20:16	0°♊	
	13484 Jun 01 02:23	0°♑			13489 Mar 10 23:23	0°♋	
				desc. node	13489 Mar 24 15:43	8°♋46'09	
conjunction	13484 Jul 05 04:17	24°♑44'58	-0°27'04		13489 Apr 27 19:46	0°♌	
minimum elong	13484 Jul 05 05:58	24°♑48'05	0°28'03		13489 Jun 18 17:14	0°♍	
	13484 Jul 12 05:37	0°♎			13489 Aug 22 21:02	0°♐	
asc. node	13484 Aug 14 09:46	25°♎12'14		retrograde	13489 Sep 29 11:59	7°♐02'07	
	13484 Aug 20 14:39	0°♏			13489 Nov 02 18:40	30°♏♊	
morning rise	13484 Sep 05 15:18	12°♏28'49		opposition	13489 Nov 06 15:01	28°♏33'22	-4°59'14
	13484 Sep 27 22:19	0°♐		greatest brilliancy	13489 Nov 07 16:52	28°♏08'46	-1.6m
greatest brilliancy	13484 Nov 02 11:20	28°♐00'37	1.2m	min. Earth dist.	13489 Nov 12 19:41	26°♏11'59	0.60847 AU
	13484 Nov 05 00:11	0°♑		direct	13489 Dec 17 13:49	18°♏41'08	
	13484 Dec 13 17:58	0°♒			13490 Feb 01 16:51	0°♐	
	13485 Jan 23 03:55	0°♓			13490 Mar 27 22:14	0°♑	
	13485 Mar 07 12:21	0°♊		asc. node	13490 Apr 06 10:02	6°♑13'50	
	13485 Apr 25 09:22	0°♋			13490 May 10 07:14	0°♎	
desc. node	13485 Jun 20 09:24	25°♋12'51			13490 Jun 19 01:42	0°♏	
retrograde	13485 Jul 19 15:45	29°♋56'45			13490 Jul 27 12:04	0°♐	
min. Earth dist.	13485 Aug 27 22:50	20°♋39'08	0.67722 AU		13490 Sep 03 23:37	0°♑	
opposition	13485 Aug 29 10:56	20°♋03'20	-2°27'51		13490 Oct 13 12:09	0°♒	
greatest brilliancy	13485 Aug 29 06:32	20°♋07'42	-1.3m	evening set	13490 Nov 23 17:31	29°♒59'22	
direct	13485 Oct 09 01:41	10°♋25'55			13490 Nov 23 17:53	0°♓	
	13485 Dec 16 12:30	0°♌			13491 Jan 06 00:16	0°♊	
	13486 Feb 10 08:43	0°♍					
	13486 Mar 30 05:10	0°♎		conjunction	13491 Jan 16 13:24	7°♊06'26	0°13'27
	13486 May 12 22:19	0°♑		minimum elong	13491 Jan 16 14:02	7°♊07'30	0°14'20
	13486 Jun 22 19:35	0°♎		behind sun begin	13491 Jan 16 04:51	6°♊52'05	
asc. node	13486 Jul 02 02:40	7°♎02'55		behind sun end	13491 Jan 16 23:14	7°♊22'53	
evening set	13486 Jul 05 16:45	9°♎47'15		max. Earth dist.	13491 Feb 07 23:44	21°♊58'59	2.60915 AU
	13486 Jul 31 19:10	0°♏		desc. node	13491 Feb 09 02:44	22°♊43'17	
	13486 Sep 07 18:48	0°♐			13491 Feb 20 06:21	0°♋	
				morning rise	13491 Mar 05 16:42	8°♋40'51	
conjunction	13486 Sep 12 00:09	3°♐21'08	0°46'55		13491 Apr 08 06:10	0°♌	
minimum elong	13486 Sep 11 20:04	3°♐13'03	0°46'50		13491 May 26 20:39	0°♍	
max. Earth dist.	13486 Sep 17 10:39	7°♐40'09	2.36236 AU		13491 Jul 16 15:56	0°♎	
	13486 Oct 15 16:13	0°♑			13491 Sep 11 03:46	0°♑	
	13486 Nov 23 08:35	0°♒		retrograde	13491 Nov 19 00:30	20°♑12'17	
morning rise	13486 Nov 25 00:27	1°♒15'55		opposition	13491 Dec 23 04:34	13°♑20'22	-3°24'59
	13487 Jan 02 15:32	0°♓		greatest brilliancy	13491 Dec 24 10:04	12°♑54'50	-2.2m
	13487 Feb 14 06:41	0°♊		min. Earth dist.	13491 Dec 31 21:54	10°♑20'08	0.48034 AU
	13487 Apr 01 01:53	0°♋		direct	13492 Jan 29 14:45	4°♑54'40	
desc. node	13487 May 08 04:29	22°♋17'26		asc. node	13492 Feb 22 18:57	8°♑45'15	
	13487 May 22 00:19	0°♌			13492 Apr 07 15:56	0°♎	
	13487 Aug 01 18:07	0°♍			13492 May 22 13:15	0°♏	
retrograde	13487 Aug 22 22:54	2°♍28'48			13492 Jul 02 05:14	0°♐	
	13487 Sep 11 19:23	30°♍♌			13492 Aug 11 06:30	0°♑	
opposition	13487 Oct 02 02:42	23°♌05'40	-4°16'37		13492 Sep 21 04:41	0°♒	
greatest brilliancy	13487 Oct 02 09:42	22°♌58'48	-1.3m		13492 Nov 02 17:19	0°♓	
min. Earth dist.	13487 Oct 04 11:14	22°♌10'16	0.67684 AU		13492 Dec 17 01:15	0°♊	
direct	13487 Nov 12 17:50	13°♌04'28		desc. node	13492 Dec 26 20:03	6°♊28'20	
	13488 Jan 12 20:52	0°♍		evening set	13493 Jan 08 08:22	14°♊40'52	
	13488 Mar 07 03:55	0°♎			13493 Jan 31 23:00	0°♋	
	13488 Apr 21 10:38	0°♑					
asc. node	13488 May 19 03:31	19°♑55'13		conjunction	13493 Feb 24 00:08	14°♋46'56	-0°31'47
	13488 Jun 01 16:23	0°♎		minimum elong	13493 Feb 23 23:11	14°♋45'24	0°31'24
	13488 Jul 10 15:54	0°♏		max. Earth dist.	13493 Mar 03 02:51	19°♋19'00	2.67269 AU
	13488 Aug 17 14:55	0°♐			13493 Mar 19 22:19	0°♌	
greatest brilliancy	13488 Aug 21 03:21	2°♐47'25	1.2m	morning rise	13493 Apr 08 21:57	12°♌38'50	
evening set	13488 Sep 18 01:35	24°♐52'00			13493 May 06 09:56	0°♍	
	13488 Sep 24 14:40	0°♑			13493 Jun 23 00:58	0°♎	
	13488 Nov 02 12:49	0°♒			13493 Aug 09 19:19	0°♑	
					13493 Sep 27 06:27	0°♎	
conjunction	13488 Nov 25 08:05	17°♒01'57	0°59'02		13493 Nov 17 18:33	0°♏	
minimum elong	13488 Nov 25 10:16	17°♒05'58	1°00'01	asc. node	13494 Jan 10 02:18	22°♏59'59	
	13488 Dec 13 02:51	0°♓		retrograde	13494 Feb 01 04:49	26°♏00'48	

opposition	13494 Mar 02 19:05	21° \mathbb{M} 08'17	3°50'56	max. Earth dist.	13499 May 13 23:16	11° \mathbb{M} 45'06	2.53625 AU
greatest brilliancy	13494 Mar 02 23:22	21° \mathbb{M} 05'25	-3.0m		13499 Jun 09 04:15	0° \mathfrak{C}	
min. Earth dist.	13494 Mar 04 19:21	20° \mathbb{M} 35'56	0.36672 AU				
direct	13494 Apr 01 19:21	16° \mathbb{M} 02'27		conjunction	13499 Jun 15 22:51	4° \mathfrak{C} 48'50	-0°47'33
	13494 May 20 23:16	0° \mathfrak{L}		minimum elong	13499 Jun 16 00:40	4° \mathfrak{C} 52'06	0°48'35
	13494 Jul 11 15:02	0° \mathbb{M}			13499 Jul 20 12:59	0° \mathcal{O}	
	13494 Aug 26 17:59	0° \mathfrak{A}		morning rise	13499 Aug 10 16:35	15° \mathcal{O} 52'25	
	13494 Oct 11 13:06	0° \mathfrak{Z}			13499 Aug 29 04:13	0° \mathbb{M}	
desc. node	13494 Nov 13 20:09	21° \mathfrak{Z} 31'19		asc. node	13499 Sep 01 07:22	2° \mathbb{M} 24'50	
	13494 Nov 27 01:48	0° \approx			13499 Oct 06 17:00	0° \mathfrak{L}	
	13495 Jan 13 08:18	0° \mathfrak{H}			13499 Nov 13 22:25	0° \mathbb{M}	
evening set	13495 Feb 15 01:31	20° \mathfrak{H} 38'09			13499 Dec 22 19:04	0° \mathfrak{A}	
	13495 Mar 01 21:33	0° \mathbb{Y}			13500 Feb 01 10:28	0° \mathfrak{Z}	
max. Earth dist.	13495 Mar 25 02:10	14° \mathbb{Y} 41'00	2.68110 AU		13500 Mar 17 13:39	0° \approx	
					13500 May 08 23:53	0° \mathfrak{H}	
conjunction	13495 Mar 31 02:02	18° \mathbb{Y} 29'35	-1°02'02	retrograde	13500 Jul 07 10:18	17° \mathfrak{H} 03'09	
minimum elong	13495 Mar 31 01:03	18° \mathbb{Y} 28'01	1°02'15	desc. node	13500 Jul 07 22:15	17° \mathfrak{H} 03'03	
	13495 Apr 18 02:57	0° \mathfrak{B}		min. Earth dist.	13500 Aug 14 02:53	8° \mathfrak{H} 15'21	0.65921 AU
morning rise	13495 May 13 08:08	16° \mathfrak{B} 13'41		opposition	13500 Aug 17 02:38	7° \mathfrak{H} 04'10	-1°30'22
	13495 Jun 03 11:52	0° \mathbb{M}		greatest brilliancy	13500 Aug 16 21:52	7° \mathfrak{H} 08'54	-1.4m
	13495 Jul 18 16:54	0° \mathfrak{C}			13500 Sep 06 23:13	30° \mathfrak{R} \approx	
	13495 Aug 31 15:27	0° \mathcal{O}		direct	13500 Sep 25 21:58	27° \approx 43'00	
	13495 Oct 13 09:19	0° \mathbb{M}			13500 Oct 16 09:02	0° \mathfrak{H}	
	13495 Nov 24 09:42	0° \mathfrak{L}			13500 Dec 29 03:40	0° \mathbb{Y}	
asc. node	13495 Nov 28 01:53	2° \mathfrak{L} 37'24			13501 Feb 19 14:48	0° \mathfrak{B}	
	13496 Jan 06 02:02	0° \mathbb{M}			13501 Apr 07 15:47	0° \mathbb{M}	
	13496 Feb 23 13:39	0° \mathfrak{A}			13501 May 21 05:11	0° \mathfrak{C}	
retrograde	13496 Apr 14 05:03	15° \mathfrak{A} 26'12		evening set	13501 Jun 13 11:10	16° \mathfrak{C} 49'42	
min. Earth dist.	13496 May 10 23:06	10° \mathfrak{A} 32'45	0.43331 AU		13501 Jul 01 04:13	0° \mathcal{O}	
greatest brilliancy	13496 May 17 14:00	8° \mathfrak{A} 20'35	-2.5m	max. Earth dist.	13501 Jul 01 12:30	0° \mathcal{O} 15'34	2.40138 AU
opposition	13496 May 19 05:14	7° \mathfrak{A} 47'44	5°55'34	asc. node	13501 Jul 19 21:07	14° \mathcal{O} 12'20	
direct	13496 Jun 19 23:07	1° \mathfrak{A} 34'06			13501 Aug 09 07:05	0° \mathbb{M}	
	13496 Sep 10 15:16	0° \mathfrak{Z}					
desc. node	13496 Oct 01 04:20	11° \mathfrak{Z} 08'48		conjunction	13501 Aug 13 20:33	3° \mathbb{M} 33'49	0°17'37
	13496 Nov 03 03:18	0° \approx		minimum elong	13501 Aug 13 18:56	3° \mathbb{M} 30'38	0°17'02
	13496 Dec 23 12:37	0° \mathfrak{H}			13501 Sep 16 09:13	0° \mathfrak{L}	
	13497 Feb 10 12:01	0° \mathbb{Y}			13501 Oct 24 07:27	0° \mathbb{M}	
evening set	13497 Mar 21 07:26	24° \mathbb{Y} 23'31		morning rise	13501 Oct 26 00:39	1° \mathbb{M} 20'58	
	13497 Mar 30 02:02	0° \mathfrak{B}			13501 Dec 01 23:01	0° \mathfrak{A}	
max. Earth dist.	13497 Apr 16 05:23	11° \mathfrak{B} 03'49	2.63449 AU		13502 Jan 11 04:50	0° \mathfrak{Z}	
					13502 Feb 22 22:21	0° \approx	
conjunction	13497 May 04 20:16	23° \mathfrak{B} 15'55	-1°10'34		13502 Apr 10 09:07	0° \mathfrak{H}	
minimum elong	13497 May 04 20:30	23° \mathfrak{B} 16'17	1°11'19	desc. node	13502 May 25 20:10	25° \mathfrak{H} 45'32	
	13497 May 14 23:53	0° \mathbb{M}			13502 Jun 03 08:04	0° \mathbb{Y}	
morning rise	13497 Jun 20 01:36	24° \mathbb{M} 27'55		retrograde	13502 Aug 10 10:16	20° \mathbb{Y} 04'39	
	13497 Jun 28 01:15	0° \mathfrak{C}		opposition	13502 Sep 19 23:43	10° \mathbb{Y} 27'06	-3°41'28
	13497 Aug 09 06:41	0° \mathcal{O}		greatest brilliancy	13502 Sep 20 00:50	10° \mathbb{Y} 26'00	-1.2m
	13497 Sep 18 21:29	0° \mathbb{M}		min. Earth dist.	13502 Sep 20 19:45	10° \mathbb{Y} 07'20	0.68504 AU
asc. node	13497 Oct 14 18:08	19° \mathbb{M} 35'14		direct	13502 Oct 31 09:20	0° \mathbb{Y} 32'08	
	13497 Oct 28 08:45	0° \mathfrak{L}			13503 Jan 26 09:03	0° \mathfrak{B}	
	13497 Dec 06 11:13	0° \mathbb{M}			13503 Mar 17 22:37	0° \mathbb{M}	
	13498 Jan 15 10:15	0° \mathfrak{A}			13503 May 01 09:18	0° \mathfrak{C}	
	13498 Feb 27 11:56	0° \mathfrak{Z}		asc. node	13503 Jun 06 17:19	26° \mathfrak{C} 28'23	
	13498 Apr 22 22:44	0° \approx			13503 Jun 11 09:59	0° \mathcal{O}	
retrograde	13498 May 31 14:56	8° \approx 50'49			13503 Jul 20 08:43	0° \mathbb{M}	
min. Earth dist.	13498 Jul 03 06:52	1° \approx 41'50	0.56872 AU	evening set	13503 Aug 19 21:38	24° \mathbb{M} 07'19	
	13498 Jul 07 16:21	30° \mathfrak{R} \mathfrak{Z}			13503 Aug 27 07:16	0° \mathfrak{L}	
opposition	13498 Jul 09 21:49	29° \mathfrak{Z} 08'05	1°45'30		13503 Oct 04 05:20	0° \mathbb{M}	
greatest brilliancy	13498 Jul 09 11:57	29° \mathfrak{Z} 17'39	-1.8m				
direct	13498 Aug 15 14:57	20° \mathfrak{Z} 52'32		conjunction	13503 Oct 31 10:26	21° \mathbb{M} 09'16	1°06'27
desc. node	13498 Aug 19 15:41	20° \mathfrak{Z} 58'36		minimum elong	13503 Oct 31 10:33	21° \mathbb{M} 09'29	1°07'12
	13498 Sep 27 16:01	0° \approx			13503 Nov 12 00:16	0° \mathfrak{A}	
	13498 Nov 30 03:24	0° \mathfrak{H}		max. Earth dist.	13503 Dec 21 22:14	29° \mathfrak{A} 38'32	2.43703 AU
	13499 Jan 21 18:02	0° \mathbb{Y}			13503 Dec 22 10:06	0° \mathfrak{Z}	
	13499 Mar 11 14:02	0° \mathfrak{B}		morning rise	13504 Jan 04 11:15	9° \mathfrak{Z} 22'05	
	13499 Apr 26 15:06	0° \mathbb{M}			13504 Feb 03 00:34	0° \approx	
evening set	13499 Apr 27 20:41	0° \mathbb{M} 49'37			13504 Mar 19 06:01	0° \mathfrak{H}	

desc. node	13504 Apr 11 11:12	14° Υ 38'49			13509 Jun 12 22:11	0° $\underline{\text{a}}$	
	13504 May 06 19:52	0° Υ			13509 Jul 26 06:45	0° \mathbb{M}	
	13504 Jun 30 16:11	0° \mathcal{B}			13509 Sep 07 07:05	0° \mathcal{A}	
retrograde	13504 Sep 14 14:58	23° \mathcal{B} 13'44			13509 Oct 21 08:02	0° \mathcal{Z}	
opposition	13504 Oct 23 17:34	14° \mathcal{B} 20'06	-4°52'46	desc. node	13509 Dec 01 08:57	27° \mathcal{Z} 08'17	
greatest brilliancy	13504 Oct 24 11:58	14° \mathcal{B} 02'19	-1.4m		13509 Dec 05 18:21	0° \approx	
min. Earth dist.	13504 Oct 28 10:49	12° \mathcal{B} 30'40	0.64315 AU		13510 Jan 21 08:52	0° \mathcal{H}	
direct	13504 Dec 04 04:28	4° \mathcal{B} 18'48		evening set	13510 Feb 01 23:09	7° \mathcal{H} 22'59	
	13505 Feb 18 13:42	0° \mathbb{I}			13510 Mar 09 14:52	0° Υ	
	13505 Apr 08 01:28	0° \mathcal{G}					
asc. node	13505 Apr 23 22:26	10° \mathcal{G} 57'32		conjunction	13510 Mar 18 14:27	5° Υ 41'29	-0°52'32
	13505 May 20 05:05	0° Ω		minimum elong	13510 Mar 18 13:18	5° Υ 39'40	0°52'32
	13505 Jun 28 12:42	0° \mathbb{M}		max. Earth dist.	13510 Mar 17 13:22	5° Υ 01'46	2.68451 AU
	13505 Aug 05 16:32	0° $\underline{\text{a}}$			13510 Apr 25 21:03	0° \mathcal{B}	
	13505 Sep 12 21:45	0° \mathbb{M}		morning rise	13510 Apr 30 17:16	3° \mathcal{B} 05'17	
	13505 Oct 22 03:09	0° \mathcal{A}			13510 Jun 11 15:04	0° \mathbb{I}	
evening set	13505 Nov 01 18:30	7° \mathcal{A} 56'16			13510 Jul 27 14:22	0° \mathcal{G}	
	13505 Dec 02 01:11	0° \mathcal{Z}			13510 Sep 10 17:19	0° Ω	
					13510 Oct 25 04:48	0° \mathbb{M}	
conjunction	13505 Dec 30 09:38	19° \mathcal{Z} 57'10	0°32'45		13510 Dec 08 23:22	0° $\underline{\text{a}}$	
minimum elong	13505 Dec 30 11:14	19° \mathcal{Z} 59'56	0°33'45	asc. node	13510 Dec 15 19:25	4° $\underline{\text{a}}$ 27'34	
	13506 Jan 14 00:58	0° \approx			13511 Jan 27 06:24	0° \mathbb{M}	
max. Earth dist.	13506 Jan 29 02:34	10° \approx 10'29	2.56965 AU	retrograde	13511 Mar 22 17:47	17° \mathbb{M} 06'14	
morning rise	13506 Feb 19 14:17	24° \approx 24'35		min. Earth dist.	13511 Apr 17 14:07	12° \mathbb{M} 48'18	0.38676 AU
desc. node	13506 Feb 26 21:54	29° \approx 11'18		greatest brilliancy	13511 Apr 22 09:01	11° \mathbb{M} 24'09	-2.8m
	13506 Feb 28 03:51	0° \mathcal{H}		opposition	13511 Apr 23 19:25	10° \mathbb{M} 58'43	6°46'52
	13506 Apr 16 08:06	0° Υ		direct	13511 May 23 15:46	5° \mathbb{M} 42'33	
	13506 Jun 04 18:50	0° \mathcal{B}			13511 Aug 04 04:44	0° \mathcal{A}	
	13506 Jul 28 05:41	0° \mathbb{I}			13511 Sep 25 19:55	0° \mathcal{Z}	
	13506 Oct 10 16:42	0° \mathcal{G}		desc. node	13511 Oct 19 14:17	14° \mathcal{Z} 18'31	
retrograde	13506 Oct 29 03:41	1° \mathcal{G} 53'53			13511 Nov 14 08:16	0° \approx	
	13506 Nov 15 11:33	30° \mathcal{R} \mathbb{I}			13512 Jan 02 03:38	0° \mathcal{H}	
opposition	13506 Dec 04 03:08	24° \mathbb{I} 17'02	-4°28'07	evening set	13512 Feb 19 10:26	0° Υ	
greatest brilliancy	13506 Dec 05 12:18	23° \mathbb{I} 46'46	-1.9m		13512 Mar 08 14:32	11° Υ 25'18	
min. Earth dist.	13506 Dec 12 05:57	21° \mathbb{I} 19'41	0.53592 AU		13512 Apr 06 19:29	0° \mathcal{B}	
direct	13507 Jan 12 10:11	15° \mathbb{I} 02'12		max. Earth dist.	13512 Apr 08 01:56	0° \mathcal{B} 48'51	2.65933 AU
	13507 Mar 05 13:24	0° \mathcal{G}					
asc. node	13507 Mar 12 07:39	3° \mathcal{G} 29'27		conjunction	13512 Apr 21 13:00	9° \mathcal{B} 29'41	-1°10'21
	13507 Apr 24 04:52	0° Ω		minimum elong	13512 Apr 21 12:38	9° \mathcal{B} 29'05	1°10'56
	13507 Jun 04 18:48	0° \mathbb{M}			13512 May 22 20:22	0° \mathbb{I}	
	13507 Jul 14 03:03	0° $\underline{\text{a}}$		morning rise	13512 Jun 05 01:06	8° \mathbb{I} 47'31	
	13507 Aug 22 07:23	0° \mathbb{M}			13512 Jul 06 06:54	0° \mathcal{G}	
	13507 Oct 01 12:06	0° \mathcal{A}			13512 Aug 18 01:29	0° Ω	
	13507 Nov 12 09:21	0° \mathcal{Z}			13512 Sep 28 07:36	0° \mathbb{M}	
evening set	13507 Dec 24 18:16	29° \mathcal{Z} 01'50		asc. node	13512 Nov 01 15:00	25° \mathbb{M} 36'46	
	13507 Dec 26 04:57	0° \approx			13512 Nov 07 10:47	0° $\underline{\text{a}}$	
desc. node	13508 Jan 14 11:08	12° \approx 48'18			13512 Dec 17 07:10	0° \mathbb{M}	
	13508 Feb 09 18:43	0° \mathcal{H}			13513 Jan 27 11:00	0° \mathcal{A}	
					13513 Mar 15 01:52	0° \mathcal{Z}	
conjunction	13508 Feb 11 12:23	1° \mathcal{H} 07'24	-0°15'40	retrograde	13513 May 16 02:12	20° \mathcal{Z} 54'43	
minimum elong	13508 Feb 11 11:50	1° \mathcal{H} 06'31	0°15'04	min. Earth dist.	13513 Jun 15 08:50	14° \mathcal{Z} 36'26	0.51820 AU
behind sun begin	13508 Feb 11 05:35	0° \mathcal{H} 56'24		greatest brilliancy	13513 Jun 22 06:34	12° \mathcal{Z} 01'39	-2.1m
behind sun end	13508 Feb 11 18:05	1° \mathcal{H} 16'38		opposition	13513 Jun 23 04:14	11° \mathcal{Z} 41'19	3°21'13
max. Earth dist.	13508 Feb 24 05:25	9° \mathcal{H} 18'52	2.65451 AU	direct	13513 Jul 28 04:41	4° \mathcal{Z} 05'19	
morning rise	13508 Mar 27 13:52	29° \mathcal{H} 55'58		desc. node	13513 Sep 06 00:23	12° \mathcal{Z} 14'40	
	13508 Mar 27 16:25	0° Υ			13513 Oct 16 07:32	0° \approx	
	13508 May 14 11:11	0° \mathcal{B}			13513 Dec 10 14:29	0° \mathcal{H}	
	13508 Jul 01 23:07	0° \mathbb{I}			13514 Jan 30 08:23	0° Υ	
	13508 Aug 20 16:15	0° \mathcal{G}			13514 Mar 19 13:33	0° \mathcal{B}	
	13508 Oct 12 23:31	0° Ω		evening set	13514 Apr 13 15:48	16° \mathcal{B} 12'16	
retrograde	13508 Dec 31 14:36	26° Ω 41'10		max. Earth dist.	13514 May 03 05:06	29° \mathcal{B} 08'18	2.58050 AU
asc. node	13509 Jan 27 15:02	22° Ω 21'29			13514 May 04 12:01	0° \mathbb{I}	
opposition	13509 Jan 31 12:27	21° Ω 13'46	0°16'43				
greatest brilliancy	13509 Jan 31 14:05	21° Ω 12'33	-2.8m	conjunction	13514 May 30 07:40	17° \mathbb{I} 32'22	-1°01'04
min. Earth dist.	13509 Feb 07 06:55	19° Ω 14'29	0.39763 AU	minimum elong	13514 May 30 08:59	17° \mathbb{I} 34'38	1°02'03
direct	13509 Mar 05 10:36	14° Ω 52'42			13514 Jun 17 05:08	0° \mathcal{G}	
	13509 Apr 24 23:40	0° \mathbb{M}		morning rise	13514 Jul 20 04:23	23° \mathcal{G} 37'46	


























































































































	13514 Jul 28 20:57	0°♈			13519 Jul 16 16:08	0°♋	
	13514 Sep 06 20:16	0°♍		retrograde	13519 Aug 31 23:15	10°♋12'57	
asc. node	13514 Sep 19 03:16	9°♍25'38		opposition	13519 Oct 10 19:18	0°♋59'18	-4°33'05
	13514 Oct 15 16:18	0°♊		greatest brilliancy	13519 Oct 11 06:11	0°♋48'40	-1.3m
	13514 Nov 23 03:36	0°♌			13519 Oct 13 08:00	30°♌♌	
	13515 Jan 01 06:16	0°♊		min. Earth dist.	13519 Oct 14 00:06	29°♌44'19	0.66761 AU
	13515 Feb 11 09:03	0°♋		direct	13519 Nov 21 10:17	20°♌56'34	
	13515 Mar 29 01:08	0°♌			13520 Jan 02 16:08	0°♋	
	13515 Jun 01 03:12	0°♋			13520 Mar 01 19:23	0°♌	
retrograde	13515 Jun 24 18:05	3°♋21'49			13520 Apr 16 23:27	0°♌	
	13515 Jul 16 21:46	30°♌♌		asc. node	13520 May 10 11:07	16°♌40'49	
desc. node	13515 Jul 25 10:20	27°♌08'05			13520 May 28 12:00	0°♈	
min. Earth dist.	13515 Jul 30 15:18	25°♌08'23	0.63085 AU		13520 Jul 06 14:19	0°♍	
opposition	13515 Aug 04 02:15	23°♌22'36	-0°23'06		13520 Aug 13 14:53	0°♊	
greatest brilliancy	13515 Aug 04 00:34	23°♌24'17	-1.5m		13520 Sep 20 16:06	0°♌	
direct	13515 Sep 11 20:40	14°♌22'31		evening set	13520 Oct 05 20:19	11°♌47'36	
	13515 Nov 10 16:51	0°♋			13520 Oct 29 16:09	0°♊	
	13516 Jan 08 18:29	0°♌					
	13516 Feb 28 08:08	0°♋		conjunction	13520 Dec 09 13:43	0°♋10'22	0°50'44
	13516 Apr 14 20:50	0°♌		minimum elong	13520 Dec 09 16:01	0°♋14'30	0°51'44
evening set	13516 May 24 14:49	27°♌19'59			13520 Dec 09 07:58	0°♋	
	13516 May 28 09:04	0°♌		max. Earth dist.	13521 Jan 16 17:15	27°♋00'02	2.52227 AU
max. Earth dist.	13516 Jun 07 01:25	6°♌55'43	2.45558 AU		13521 Jan 21 02:20	0°♌	
	13516 Jul 08 11:04	0°♈		morning rise	13521 Feb 03 00:57	8°♌46'41	
					13521 Mar 07 03:46	0°♋	
conjunction	13516 Jul 18 23:25	7°♈54'58	-0°12'19	desc. node	13521 Mar 15 17:08	5°♋31'31	
minimum elong	13516 Jul 19 00:24	7°♈56'49	0°13'12		13521 Apr 23 15:58	0°♌	
behind sun begin	13516 Jul 18 09:24	7°♈28'27			13521 Jun 13 09:43	0°♋	
behind sun end	13516 Jul 19 15:24	8°♈25'13			13521 Aug 10 23:05	0°♌	
asc. node	13516 Aug 05 15:45	21°♈25'13		retrograde	13521 Oct 10 05:32	15°♌53'10	
	13516 Aug 16 18:03	0°♍		opposition	13521 Nov 16 16:15	7°♌40'46	-4°54'55
morning rise	13516 Sep 23 16:25	29°♍45'56		greatest brilliancy	13521 Nov 17 21:44	7°♌12'59	-1.7m
	13516 Sep 23 23:32	0°♊		min. Earth dist.	13521 Nov 23 15:04	5°♌03'49	0.58496 AU
	13516 Oct 31 23:35	0°♌			13521 Dec 09 19:15	30°♌♌	
	13516 Dec 09 15:49	0°♊		direct	13521 Dec 27 03:59	27°♋57'35	
	13517 Jan 18 22:49	0°♋			13522 Jan 14 05:03	0°♌	
	13517 Mar 02 23:00	0°♌			13522 Mar 21 11:04	0°♌	
	13517 Apr 19 14:07	0°♋		asc. node	13522 Mar 28 19:42	4°♌35'26	
desc. node	13517 Jun 11 13:01	26°♋51'57			13522 May 05 04:05	0°♈	
	13517 Jun 19 18:28	0°♌			13522 Jun 14 09:43	0°♍	
retrograde	13517 Jul 28 05:09	7°♌39'26			13522 Jul 23 01:51	0°♊	
	13517 Sep 01 11:26	30°♌♌			13522 Aug 30 17:46	0°♌	
opposition	13517 Sep 06 23:03	27°♋50'50	-2°57'36		13522 Oct 09 10:44	0°♊	
min. Earth dist.	13517 Sep 06 06:50	28°♋06'54	0.68281 AU		13522 Nov 19 20:42	0°♋	
greatest brilliancy	13517 Sep 06 19:59	27°♋53'53	-1.3m	evening set	13522 Dec 06 07:32	11°♋31'59	
direct	13517 Oct 17 21:22	18°♋06'16			13523 Jan 02 06:37	0°♌	
	13517 Dec 07 15:30	0°♌					
	13518 Feb 05 08:59	0°♋		conjunction	13523 Jan 27 00:11	16°♌30'57	0°02'26
	13518 Mar 26 00:55	0°♌		minimum elong	13523 Jan 27 00:18	16°♌31'10	0°03'14
	13518 May 09 00:21	0°♌		behind sun begin	13523 Jan 26 04:14	15°♌58'03	
	13518 Jun 18 23:12	0°♈		behind sun end	13523 Jan 27 20:23	17°♌04'16	
asc. node	13518 Jun 23 10:15	3°♈22'11		desc. node	13523 Jan 31 04:57	19°♌16'59	
evening set	13518 Jul 21 11:40	24°♈57'02		max. Earth dist.	13523 Feb 14 17:05	28°♌46'28	2.62775 AU
	13518 Jul 27 22:51	0°♍			13523 Feb 16 14:20	0°♋	
	13518 Sep 03 22:00	0°♊		morning rise	13523 Mar 14 19:46	16°♋52'55	
					13523 Apr 04 12:15	0°♌	
conjunction	13518 Sep 30 18:29	21°♊18'08	0°58'49		13523 May 22 17:43	0°♋	
minimum elong	13518 Sep 30 15:01	21°♊11'18	0°59'05		13523 Jul 11 12:15	0°♌	
	13518 Oct 11 19:06	0°♌			13523 Sep 02 14:08	0°♌	
	13518 Nov 19 11:31	0°♊			13523 Nov 13 10:36	0°♈	
max. Earth dist.	13518 Nov 20 15:14	0°♊52'46	2.38144 AU	retrograde	13523 Dec 03 21:22	2°♈23'41	
morning rise	13518 Dec 11 10:58	16°♊32'59			13523 Dec 23 10:20	30°♌♌	
	13518 Dec 29 18:14	0°♋		opposition	13524 Jan 06 00:07	26°♌00'18	-2°24'46
	13519 Feb 10 07:26	0°♌		greatest brilliancy	13524 Jan 06 21:52	25°♌42'17	-2.4m
	13519 Mar 27 18:58	0°♋		min. Earth dist.	13524 Jan 14 14:44	23°♌10'31	0.44911 AU
desc. node	13519 Apr 29 05:25	19°♋56'39		direct	13524 Feb 11 00:34	18°♌12'35	
	13519 May 16 13:32	0°♌		asc. node	13524 Feb 14 05:43	18°♌17'02	

	13524 Mar 26 02:27	0°♈			13529 Jun 24 07:21	0°♊		
	13524 May 15 06:30	0°♍	morning rise		13529 Jun 30 22:05	4°♊38'05		
	13524 Jun 26 08:39	0°♊			13529 Aug 05 08:04	0°♈		
	13524 Aug 06 03:33	0°♎			13529 Sep 14 17:14	0°♍		
	13524 Sep 16 14:16	0°♌	asc. node		13529 Oct 06 00:34	16°♍13'12		
	13524 Oct 29 12:36	0°♐			13529 Oct 23 22:29	0°♊		
	13524 Dec 13 03:55	0°♋			13529 Dec 01 18:05	0°♎		
desc. node	13524 Dec 17 22:10	3°♋08'14			13530 Jan 10 06:58	0°♌		
evening set	13525 Jan 18 05:16	23°♋31'33			13530 Feb 21 07:53	0°♐		
	13525 Jan 28 06:25	0°♋			13530 Apr 11 12:10	0°♋		
			retrograde		13530 Jun 10 08:20	18°♋31'15		
conjunction	13525 Mar 04 23:46	22°♋48'52 -0°40'13	min. Earth dist.		13530 Jul 14 05:25	10°♋57'15 0.59327 AU		
minimum elong	13525 Mar 04 22:40	22°♋47'08 0°39'58	opposition		13530 Jul 20 02:17	8°♋39'21 0°55'00		
max. Earth dist.	13525 Mar 09 03:41	25°♋27'30 2.67935 AU	greatest brilliancy		13530 Jul 19 21:40	8°♋43'52 -1.7m		
	13525 Mar 16 07:26	0°♍	desc. node		13530 Aug 10 21:14	1°♋42'23		
morning rise	13525 Apr 17 11:11	20°♍22'00	direct		13530 Aug 26 14:21	0°♋05'56		
	13525 May 02 16:21	0°♌			13530 Nov 24 00:35	0°♋		
	13525 Jun 18 22:39	0°♈			13531 Jan 17 07:45	0°♍		
	13525 Aug 04 22:49	0°♊			13531 Mar 07 16:45	0°♌		
	13525 Sep 20 21:19	0°♈			13531 Apr 22 21:50	0°♈		
	13525 Nov 07 16:10	0°♍	evening set		13531 May 08 02:20	10°♈16'01		
	13525 Dec 30 23:00	0°♊	max. Earth dist.		13531 May 22 18:50	20°♈23'43 2.50882 AU		
asc. node	13526 Jan 01 10:45	0°♊42'47			13531 Jun 05 11:05	0°♊		
retrograde	13526 Feb 20 18:53	14°♊39'14						
min. Earth dist.	13526 Mar 21 04:26	10°♊01'21 0.36424 AU	conjunction		13531 Jun 28 00:42	16°♊13'04 -0°36'41		
opposition	13526 Mar 22 12:46	9°♊39'57 5°34'58	minimum elong		13531 Jun 28 02:34	16°♊16'28 0°37'41		
greatest brilliancy	13526 Mar 22 04:00	9°♊45'45 -3.0m			13531 Jul 16 17:47	0°♈		
direct	13526 Apr 20 14:44	4°♊49'54	asc. node		13531 Aug 23 11:34	28°♈37'22		
	13526 Jul 01 07:09	0°♎			13531 Aug 25 06:25	0°♍		
	13526 Aug 20 02:55	0°♌	morning rise		13531 Aug 26 06:24	0°♍46'17		
	13526 Oct 06 10:25	0°♐			13531 Oct 02 16:45	0°♊		
desc. node	13526 Nov 05 00:40	18°♐47'22			13531 Nov 09 19:54	0°♎		
	13526 Nov 22 18:16	0°♋			13531 Dec 18 14:05	0°♌		
	13527 Jan 09 11:24	0°♋			13532 Jan 28 00:35	0°♐		
evening set	13527 Feb 23 22:49	28°♋33'02			13532 Mar 11 13:21	0°♋		
	13527 Feb 26 06:02	0°♍			13532 Apr 30 09:48	0°♋		
max. Earth dist.	13527 Mar 31 03:34	20°♍49'29 2.67573 AU	desc. node		13532 Jun 28 02:37	23°♋17'45		
			retrograde		13532 Jul 15 01:00	24°♋59'47		
conjunction	13527 Apr 08 19:30	26°♍21'02 -1°06'10	min. Earth dist.		13532 Aug 22 14:57	15°♋55'01 0.67038 AU		
minimum elong	13527 Apr 08 18:41	26°♍19'44 1°06'32	opposition		13532 Aug 24 19:02	15°♋03'18 -2°05'16		
	13527 Apr 14 12:25	0°♌	greatest brilliancy		13532 Aug 24 14:01	15°♋08'17 -1.3m		
morning rise	13527 May 22 08:16	24°♌28'37	direct		13532 Oct 04 01:18	5°♋32'43		
	13527 May 30 18:19	0°♈			13532 Dec 21 20:02	0°♍		
	13527 Jul 14 16:21	0°♊			13533 Feb 14 03:24	0°♌		
	13527 Aug 27 03:42	0°♈			13533 Apr 02 16:37	0°♈		
	13527 Oct 08 06:35	0°♍			13533 May 16 09:38	0°♊		
	13527 Nov 18 10:19	0°♊	evening set		13533 Jun 26 02:22	29°♊48'07		
asc. node	13527 Nov 19 08:43	0°♊41'04			13533 Jun 26 08:41	0°♈		
	13527 Dec 29 16:02	0°♎	asc. node		13533 Jul 10 02:43	10°♈25'30		
	13528 Feb 11 17:41	0°♌	max. Earth dist.		13533 Jul 24 17:21	21°♈40'02 2.37455 AU		
retrograde	13528 Apr 27 05:50	29°♌43'05			13533 Aug 04 10:28	0°♍		
min. Earth dist.	13528 May 25 02:33	24°♌20'22 0.46347 AU						
greatest brilliancy	13528 Jun 01 02:52	21°♌53'02 -2.3m	conjunction		13533 Aug 30 09:34	20°♍25'46 0°35'05		
opposition	13528 Jun 02 13:10	21°♌22'49 5°02'56	minimum elong		13533 Aug 30 06:12	20°♍19'07 0°34'45		
direct	13528 Jul 05 13:31	14°♌37'00			13533 Sep 11 11:27	0°♊		
	13528 Aug 31 09:22	0°♐			13533 Oct 19 08:53	0°♎		
desc. node	13528 Sep 22 10:53	10°♐36'43	morning rise		13533 Nov 12 22:22	19°♎10'48		
	13528 Oct 28 10:29	0°♋			13533 Nov 27 00:08	0°♌		
	13528 Dec 19 03:03	0°♋			13534 Jan 06 05:18	0°♐		
	13529 Feb 06 15:22	0°♍			13534 Feb 17 19:24	0°♋		
	13529 Mar 26 10:19	0°♌			13534 Apr 04 18:06	0°♋		
evening set	13529 Mar 30 06:47	2°♌28'08	desc. node		13534 May 15 23:10	24°♋17'35		
max. Earth dist.	13529 Apr 22 21:20	17°♌46'58 2.61751 AU			13534 May 26 13:40	0°♍		
	13529 May 11 08:32	0°♈	retrograde		13534 Aug 18 02:50	27°♍39'41		
			opposition		13534 Sep 27 11:03	18°♍09'44 -4°03'09		
conjunction	13529 May 14 09:07	2°♈01'18 -1°08'37	greatest brilliancy		13534 Sep 27 15:16	18°♍05'35 -1.3m		
minimum elong	13529 May 14 09:44	2°♈02'21 1°09'29	min. Earth dist.		13534 Sep 29 03:10	17°♍30'16 0.68185 AU		

direct	13534 Nov 07 23:47	8° Υ 10'49		desc. node	13540 Jan 04 13:52	9° \approx 24'37	
	13535 Jan 18 16:33	0° \mathcal{B}			13540 Feb 05 02:39	0° \mathcal{H}	
	13535 Mar 12 06:19	0° Π					
	13535 Apr 26 05:44	0° \mathcal{C}		conjunction	13540 Feb 19 21:20	9° \mathcal{H} 31'03	-0°25'21
asc. node	13535 May 28 02:35	23° \mathcal{C} 01'57		minimum elong	13540 Feb 19 20:30	9° \mathcal{H} 29'44	0°24'53
	13535 Jun 06 10:18	0° Ω		max. Earth dist.	13540 Feb 29 11:18	15° \mathcal{H} 39'08	2.66560 AU
	13535 Jul 15 10:09	0° \mathcal{M}			13540 Mar 23 00:28	0° Υ	
	13535 Aug 22 09:00	0° $\underline{\mathcal{A}}$		morning rise	13540 Apr 04 05:47	7° Υ 44'06	
evening set	13535 Sep 06 10:37	11° $\underline{\mathcal{A}}$ 57'29			13540 May 09 14:33	0° \mathcal{B}	
	13535 Sep 29 07:22	0° \mathcal{M}			13540 Jun 26 13:58	0° Π	
	13535 Nov 07 03:05	0° \mathcal{A}			13540 Aug 14 02:16	0° \mathcal{C}	
					13540 Oct 03 04:25	0° Ω	
conjunction	13535 Nov 16 03:36	6° \mathcal{A} 48'46	1°03'38		13540 Nov 29 04:32	0° \mathcal{M}	
minimum elong	13535 Nov 16 05:15	6° \mathcal{A} 51'52	1°04'33	retrograde	13541 Jan 18 13:49	13° \mathcal{M} 00'06	
	13535 Dec 17 13:55	0° \mathcal{B}		asc. node	13541 Jan 18 00:58	12° \mathcal{M} 59'59	
max. Earth dist.	13536 Jan 02 09:39	11° \mathcal{B} 20'07	2.46861 AU	opposition	13541 Feb 17 12:27	7° \mathcal{M} 57'27	2°16'26
morning rise	13536 Jan 16 09:23	21° \mathcal{B} 09'54		greatest brilliancy	13541 Feb 17 20:10	7° \mathcal{M} 52'05	-3.0m
	13536 Jan 29 04:21	0° \approx		min. Earth dist.	13541 Feb 21 23:42	6° \mathcal{M} 43'04	0.37686 AU
	13536 Mar 14 06:39	0° \mathcal{H}		direct	13541 Mar 20 17:28	2° \mathcal{M} 22'57	
desc. node	13536 Apr 01 11:34	11° \mathcal{H} 36'49			13541 Jun 01 21:04	0° $\underline{\mathcal{A}}$	
	13536 May 01 07:49	0° Υ			13541 Jul 18 09:34	0° \mathcal{M}	
	13536 Jun 23 03:27	0° \mathcal{B}			13541 Aug 31 19:35	0° \mathcal{A}	
	13536 Sep 07 03:30	0° Π			13541 Oct 15 16:44	0° \mathcal{B}	
retrograde	13536 Sep 23 11:55	1° Π 29'26		desc. node	13541 Nov 21 12:50	24° \mathcal{B} 06'12	
	13536 Oct 08 23:03	30° \mathcal{R} \mathcal{B}			13541 Nov 30 15:44	0° \approx	
opposition	13536 Nov 01 01:53	22° \mathcal{B} 48'56	-4°58'11		13542 Jan 16 14:08	0° \mathcal{H}	
greatest brilliancy	13536 Nov 02 00:30	22° \mathcal{B} 27'14	-1.5m	evening set	13542 Feb 10 01:53	15° \mathcal{H} 30'38	
min. Earth dist.	13536 Nov 06 14:40	20° \mathcal{B} 41'32	0.62525 AU		13542 Mar 04 23:47	0° Υ	
direct	13536 Dec 12 06:39	12° \mathcal{B} 51'30		max. Earth dist.	13542 Mar 22 11:50	11° Υ 05'03	2.68363 AU
	13537 Feb 09 12:29	0° Π					
	13537 Apr 01 18:45	0° \mathcal{C}		conjunction	13542 Mar 26 07:34	13° Υ 30'30	-0°58'30
asc. node	13537 Apr 14 08:20	8° \mathcal{C} 26'50		minimum elong	13542 Mar 26 06:29	13° Υ 28'47	0°58'38
	13537 May 14 14:54	0° Ω			13542 Apr 21 05:26	0° \mathcal{B}	
	13537 Jun 23 04:57	0° \mathcal{M}		morning rise	13542 May 08 10:40	11° \mathcal{B} 01'50	
	13537 Jul 31 12:20	0° $\underline{\mathcal{A}}$			13542 Jun 06 18:39	0° Π	
	13537 Sep 07 20:16	0° \mathcal{M}			13542 Jul 22 07:52	0° \mathcal{C}	
	13537 Oct 17 04:26	0° \mathcal{A}			13542 Sep 04 18:31	0° Ω	
evening set	13537 Nov 15 04:07	21° \mathcal{A} 20'22			13542 Oct 18 05:02	0° \mathcal{M}	
	13537 Nov 27 05:16	0° \mathcal{B}			13542 Nov 30 04:37	0° $\underline{\mathcal{A}}$	
				asc. node	13542 Dec 06 02:41	4° $\underline{\mathcal{A}}$ 06'16	
conjunction	13538 Jan 09 23:35	0° \approx 28'00	0°21'35		13543 Jan 13 16:23	0° \mathcal{M}	
minimum elong	13538 Jan 10 00:37	0° \approx 29'46	0°22'32		13543 Mar 12 16:56	0° \mathcal{A}	
	13538 Jan 09 07:06	0° \approx		retrograde	13543 Apr 06 01:50	4° \mathcal{A} 06'17	
max. Earth dist.	13538 Feb 04 13:09	17° \approx 36'30	2.59239 AU		13543 Apr 30 16:18	30° \mathcal{R} \mathcal{M}	
desc. node	13538 Feb 16 22:04	25° \approx 45'00		min. Earth dist.	13543 May 02 03:36	29° \mathcal{M} 33'16	0.41054 AU
	13538 Feb 23 10:21	0° \mathcal{H}		greatest brilliancy	13543 May 08 04:13	27° \mathcal{M} 39'12	-2.7m
morning rise	13538 Feb 28 08:26	3° \mathcal{H} 11'43		opposition	13543 May 09 20:02	27° \mathcal{M} 07'34	6°28'01
	13538 Apr 11 10:42	0° Υ		direct	13543 Jun 09 14:51	21° \mathcal{M} 20'49	
	13538 May 30 07:58	0° \mathcal{B}			13543 Jul 19 09:46	0° \mathcal{A}	
	13538 Jul 21 01:08	0° Π			13543 Sep 17 23:11	0° \mathcal{B}	
	13538 Sep 19 10:53	0° \mathcal{C}		desc. node	13543 Oct 09 19:57	12° \mathcal{B} 31'57	
retrograde	13538 Nov 10 01:32	12° \mathcal{C} 25'06			13543 Nov 08 09:39	0° \approx	
opposition	13538 Dec 15 01:59	5° \mathcal{C} 11'40	-3°57'08		13543 Dec 28 00:43	0° \mathcal{H}	
greatest brilliancy	13538 Dec 16 10:09	4° \mathcal{C} 43'02	-2.1m		13544 Feb 14 16:40	0° Υ	
min. Earth dist.	13538 Dec 23 14:58	2° \mathcal{C} 10'01	0.50572 AU	evening set	13544 Mar 16 09:35	19° Υ 17'26	
	13538 Dec 30 08:05	30° \mathcal{R} Π			13544 Apr 02 04:51	0° \mathcal{B}	
direct	13539 Jan 22 09:51	26° Π 20'58		max. Earth dist.	13544 Apr 13 08:03	7° \mathcal{B} 09'47	2.64660 AU
	13539 Feb 15 04:03	0° \mathcal{C}					
asc. node	13539 Mar 02 16:52	5° \mathcal{C} 37'34		conjunction	13544 Apr 29 14:31	17° \mathcal{B} 44'28	-1°11'02
	13539 Apr 15 23:17	0° Ω		minimum elong	13544 Apr 29 14:29	17° \mathcal{B} 44'24	1°11'44
	13539 May 29 01:51	0° \mathcal{M}			13544 May 18 04:48	0° Π	
	13539 Jul 08 01:41	0° $\underline{\mathcal{A}}$		morning rise	13544 Jun 13 23:09	17° Π 59'48	
	13539 Aug 16 15:53	0° \mathcal{M}			13544 Jul 01 10:58	0° \mathcal{C}	
	13539 Sep 26 04:34	0° \mathcal{A}			13544 Aug 12 22:50	0° Ω	
	13539 Nov 07 08:44	0° \mathcal{B}			13544 Sep 22 20:40	0° \mathcal{M}	
	13539 Dec 21 09:36	0° \approx		asc. node	13544 Oct 22 19:33	22° \mathcal{M} 32'53	
evening set	13540 Jan 03 09:03	8° \approx 37'02			13544 Nov 01 14:52	0° $\underline{\mathcal{A}}$	

	13544 Dec 10 23:59	0°♌				13549 Sep 29 12:50	30°♏	
	13545 Jan 20 08:19	0°♏	direct			13549 Oct 25 15:04	25°♏43'45	
	13545 Mar 05 09:42	0°♐				13549 Nov 23 03:30	0°♑	
	13545 May 08 23:13	0°♑				13550 Jan 29 23:02	0°♒	
retrograde	13545 May 25 17:20	1°♑52'47				13550 Mar 20 17:26	0°♓	
	13545 Jun 10 18:00	30°♒				13550 May 04 00:42	0°♈	
min. Earth dist.	13545 Jun 26 08:23	25°♒05'01	0.54698 AU	asc. node		13550 Jun 13 17:15	29°♈44'00	
opposition	13545 Jul 03 12:13	22°♒20'42	2°24'58			13550 Jun 14 01:45	0°♏	
greatest brilliancy	13545 Jul 02 21:37	22°♒34'41	-1.9m			13550 Jul 23 01:35	0°♐	
direct	13545 Aug 08 11:33	14°♒21'37		evening set		13550 Aug 06 13:33	11°♐24'09	
desc. node	13545 Aug 27 07:25	16°♒24'13				13550 Aug 30 00:41	0°♑	
	13545 Oct 06 08:55	0°♑				13550 Oct 06 21:58	0°♒	
	13545 Dec 04 11:12	0°♒						
	13546 Jan 25 05:36	0°♑	conjunction			13550 Oct 18 07:39	8°♌56'06	1°05'20
	13546 Mar 14 19:46	0°♒	minimum elong			13550 Oct 18 06:08	8°♌53'09	1°05'54
evening set	13546 Apr 22 03:42	24°♒51'37				13550 Nov 14 14:52	0°♏	
	13546 Apr 29 20:51	0°♓	max. Earth dist.			13550 Dec 10 20:38	19°♏42'00	2.41134 AU
max. Earth dist.	13546 May 09 17:42	6°♓38'36	2.55695 AU			13550 Dec 24 22:02	0°♐	
				morning rise		13550 Dec 25 12:05	0°♐25'29	
conjunction	13546 Jun 09 00:58	27°♓32'17	-0°54'06			13551 Feb 05 10:05	0°♑	
minimum elong	13546 Jun 09 02:37	27°♓35'12	0°55'08			13551 Mar 22 15:53	0°♒	
	13546 Jun 12 12:57	0°♈		desc. node		13551 Apr 19 06:42	17°♒17'00	
	13546 Jul 24 01:47	0°♏				13551 May 10 13:52	0°♑	
morning rise	13546 Aug 01 09:24	6°♏10'31				13551 Jul 06 04:43	0°♒	
	13546 Sep 01 21:09	0°♐		retrograde		13551 Sep 09 05:12	18°♒05'00	
asc. node	13546 Sep 09 09:01	5°♐45'39		opposition		13551 Oct 18 15:49	9°♒01'52	-4°45'52
	13546 Oct 10 13:20	0°♑		greatest brilliancy		13551 Oct 19 06:50	8°♒47'16	-1.4m
	13546 Nov 17 20:52	0°♌		min. Earth dist.		13551 Oct 22 16:38	7°♒27'44	0.65544 AU
	13546 Dec 26 18:55	0°♏				13551 Nov 16 17:07	30°♒♑	
	13547 Feb 05 12:58	0°♐		direct		13551 Nov 29 04:53	28°♑59'04	
	13547 Mar 22 02:02	0°♑				13551 Dec 12 05:17	0°♒	
	13547 May 16 01:56	0°♒				13552 Feb 23 20:57	0°♓	
retrograde	13547 Jul 02 15:40	11°♒47'34				13552 Apr 11 07:34	0°♈	
desc. node	13547 Jul 15 15:17	10°♒38'43		asc. node		13552 Apr 30 20:52	13°♈40'13	
min. Earth dist.	13547 Aug 08 13:08	3°♒14'31	0.64784 AU			13552 May 23 05:26	0°♏	
opposition	13547 Aug 12 04:45	1°♒47'35	-1°03'43			13552 Jul 01 11:07	0°♐	
greatest brilliancy	13547 Aug 12 00:43	1°♒51'34	-1.5m			13552 Aug 08 13:31	0°♑	
	13547 Aug 16 18:30	30°♒♑				13552 Sep 15 16:21	0°♌	
direct	13547 Sep 20 13:23	22°♒35'17		evening set		13552 Oct 21 11:55	27°♌32'07	
	13547 Oct 29 09:42	0°♒				13552 Oct 24 18:17	0°♏	
	13548 Jan 02 12:37	0°♑				13552 Dec 04 12:19	0°♐	
	13548 Feb 23 04:12	0°♒						
	13548 Apr 10 01:14	0°♓		conjunction		13552 Dec 21 17:35	12°♐14'51	0°40'43
	13548 May 23 15:35	0°♈		minimum elong		13552 Dec 21 19:34	12°♐18'21	0°41'44
evening set	13548 Jun 04 11:06	8°♈27'52				13553 Jan 16 08:09	0°♑	
max. Earth dist.	13548 Jun 19 05:39	19°♈14'30	2.42542 AU	max. Earth dist.		13553 Jan 24 02:56	5°♑17'30	2.54937 AU
	13548 Jul 03 17:05	0°♏		morning rise		13553 Feb 12 15:52	18°♑22'34	
asc. node	13548 Jul 26 22:14	17°♏37'11				13553 Mar 02 08:54	0°♒	
				desc. node		13553 Mar 05 18:14	2°♒12'02	
conjunction	13548 Aug 01 22:59	22°♏15'51	0°04'18			13553 Apr 18 14:41	0°♑	
minimum elong	13548 Aug 01 22:41	22°♏15'16	0°03'34			13553 Jun 07 11:35	0°♒	
behind sun begin	13548 Jul 31 20:03	21°♏23'55				13553 Aug 01 12:34	0°♓	
behind sun end	13548 Aug 03 01:18	23°♏06'39		retrograde		13553 Oct 20 15:34	25°♓15'23	
	13548 Aug 11 22:30	0°♐		opposition		13553 Nov 26 07:20	17°♓21'28	-4°42'40
	13548 Sep 19 02:25	0°♑		greatest brilliancy		13553 Nov 27 15:19	16°♓51'45	-1.8m
morning rise	13548 Oct 11 16:08	17°♑52'13		min. Earth dist.		13553 Dec 03 22:03	14°♓32'10	0.55893 AU
	13548 Oct 27 01:05	0°♌		direct		13554 Jan 05 04:15	7°♓51'47	
	13548 Dec 04 15:55	0°♏				13554 Mar 12 13:11	0°♈	
	13549 Jan 13 20:43	0°♐		asc. node		13554 Mar 19 05:53	3°♈49'58	
	13549 Feb 25 14:32	0°♑				13554 Apr 28 13:35	0°♏	
	13549 Apr 13 08:48	0°♒				13554 Jun 08 11:49	0°♐	
desc. node	13549 Jun 01 14:40	26°♒56'40				13554 Jul 17 12:11	0°♑	
	13549 Jun 08 05:07	0°♑				13554 Aug 25 09:53	0°♌	
retrograde	13549 Aug 04 18:37	15°♑17'25				13554 Oct 04 07:48	0°♏	
opposition	13549 Sep 14 10:12	5°♑34'30	-3°24'28			13554 Nov 14 22:29	0°♐	
greatest brilliancy	13549 Sep 14 09:12	5°♑35'29	-1.3m	evening set		13554 Dec 17 00:42	22°♐13'29	
min. Earth dist.	13549 Sep 14 13:52	5°♑30'52	0.68537 AU			13554 Dec 28 12:10	0°♑	

desc. node	13555 Jan 21 06:15	15° \approx 49'46		asc. node	13559 Nov 09 16:24	28° \cap 14'31	
					13559 Nov 12 01:02	0° $\underline{\cap}$	
conjunction	13555 Feb 04 23:25	25° \approx 28'54 -0°08'21			13559 Dec 22 09:00	0° \cap	
minimum elong	13555 Feb 04 23:08	25° \approx 28'25 0°07'39			13560 Feb 02 09:30	0° \nearrow	
behind sun begin	13555 Feb 04 05:30	24° \approx 59'41			13560 Mar 23 10:07	0° \searrow	
behind sun end	13555 Feb 05 16:46	25° \approx 57'09		retrograde	13560 May 08 07:05	12° \searrow 39'34	
	13555 Feb 11 22:05	0° \times		min. Earth dist.	13560 Jun 06 11:05	6° \searrow 45'29	0.49391 AU
max. Earth dist.	13555 Feb 20 05:40	5° \times 23'03 2.64357 AU		greatest brilliancy	13560 Jun 13 12:00	4° \searrow 11'27	-2.2m
morning rise	13555 Mar 22 17:38	24° \times 54'03		opposition	13560 Jun 14 15:18	3° \searrow 46'24	4°04'57
	13555 Mar 30 18:49	0° Υ			13560 Jun 25 19:34	30° \nwarrow	
	13555 May 17 17:17	0° B		direct	13560 Jul 18 19:10	26° \nwarrow 31'24	
	13555 Jul 05 16:45	0° Π			13560 Aug 12 10:35	0° \searrow	
	13555 Aug 25 14:05	0° C		desc. node	13560 Sep 12 16:14	11° \searrow 14'12	
	13555 Oct 21 21:18	0° Ω			13560 Oct 20 23:12	0° \approx	
retrograde	13555 Dec 19 09:38	15° Ω 58'48			13560 Dec 13 11:56	0° \times	
opposition	13556 Jan 20 07:20	10° Ω 06'46 -1°01'50			13561 Feb 01 16:37	0° Υ	
greatest brilliancy	13556 Jan 20 16:39	9° Ω 59'30 -2.7m			13561 Mar 21 17:55	0° B	
min. Earth dist.	13556 Jan 28 05:38	7° Ω 39'30 0.41912 AU		evening set	13561 Apr 07 09:26	10° B 42'12	
asc. node	13556 Feb 04 13:49	5° Ω 37'03		max. Earth dist.	13561 Apr 28 18:43	24° B 43'02	2.59803 AU
direct	13556 Feb 23 16:46	3° Ω 05'27			13561 May 06 17:20	0° Π	
	13556 May 04 19:52	0° \cap					
	13556 Jun 18 14:50	0° $\underline{\cap}$		conjunction	13561 May 23 06:06	11° Π 08'29	-1°04'57
	13556 Jul 30 14:00	0° \cap		minimum elong	13561 May 23 07:07	11° Π 10'14	1°05'54
	13556 Sep 10 18:13	0° \nearrow			13561 Jun 19 13:56	0° C	
	13556 Oct 24 05:07	0° \searrow		morning rise	13561 Jul 11 11:02	15° C 30'39	
desc. node	13556 Dec 08 02:19	29° \searrow 55'16			13561 Jul 31 10:43	0° Ω	
	13556 Dec 08 05:12	0° \approx			13561 Sep 09 15:00	0° \cap	
evening set	13557 Jan 23 13:22	0° \times		asc. node	13561 Sep 26 05:25	12° \cap 40'57	
	13557 Jan 26 16:58	2° \times 00'59			13561 Oct 18 15:26	0° $\underline{\cap}$	
	13557 Mar 11 16:33	0° Υ			13561 Nov 26 06:04	0° \cap	
					13562 Jan 04 11:41	0° \nearrow	
conjunction	13557 Mar 12 18:48	0° Υ 41'36 -0°47'46			13562 Feb 14 20:40	0° \searrow	
minimum elong	13557 Mar 12 17:38	0° Υ 39'46 0°47'40			13562 Apr 02 11:34	0° \approx	
max. Earth dist.	13557 Mar 14 02:29	1° Υ 31'47 2.68324 AU		retrograde	13562 Jun 18 16:35	27° \approx 38'33	
morning rise	13557 Apr 24 23:55	28° Υ 05'49		min. Earth dist.	13562 Jul 23 16:34	19° \approx 42'09	0.61506 AU
	13557 Apr 27 23:47	0° B		opposition	13562 Jul 28 19:04	17° \approx 41'19	0°08'07
	13557 Jun 13 23:15	0° Π		greatest brilliancy	13562 Jul 28 18:30	17° \approx 41'53	-1.6m
	13557 Jul 30 08:57	0° C		desc. node	13562 Aug 01 02:27	16° \approx 23'46	
	13557 Sep 14 05:11	0° Ω		direct	13562 Sep 05 00:11	8° \approx 52'34	
	13557 Oct 29 20:47	0° \cap			13562 Nov 15 21:22	0° \times	
	13557 Dec 15 22:32	0° $\underline{\cap}$			13563 Jan 11 15:51	0° Υ	
asc. node	13557 Dec 22 19:13	4° $\underline{\cap}$ 07'36			13563 Mar 02 17:45	0° B	
	13558 Feb 14 18:37	0° \cap			13563 Apr 18 04:33	0° Π	
retrograde	13558 Mar 10 07:45	3° \cap 39'17		evening set	13563 May 17 18:35	20° Π 10'07	
	13558 Apr 03 09:12	30° \nwarrow		max. Earth dist.	13563 May 31 10:51	29° Π 46'30	2.47990 AU
min. Earth dist.	13558 Apr 05 18:07	29° $\underline{\cap}$ 21'43 0.37270 AU			13563 May 31 18:28	0° C	
greatest brilliancy	13558 Apr 09 02:02	28° $\underline{\cap}$ 26'28 -2.9m					
opposition	13558 Apr 10 02:40	28° $\underline{\cap}$ 09'20 6°35'39		conjunction	13563 Jul 09 23:04	28° C 29'27	-0°23'36
direct	13558 May 09 09:16	23° $\underline{\cap}$ 11'57		minimum elong	13563 Jul 10 00:37	28° C 32'18	0°24'33
	13558 Jun 12 06:49	0° \cap			13563 Jul 11 23:41	0° Ω	
	13558 Aug 11 02:53	0° \nearrow		asc. node	13563 Aug 13 17:02	24° Ω 49'38	
	13558 Sep 29 19:58	0° \searrow			13563 Aug 20 09:46	0° \cap	
desc. node	13558 Oct 26 06:32	16° \searrow 21'35		morning rise	13563 Sep 11 05:25	17° \cap 00'37	
	13558 Nov 17 05:50	0° \approx			13563 Sep 27 17:41	0° $\underline{\cap}$	
	13559 Jan 04 12:33	0° \times		greatest brilliancy	13563 Oct 22 07:49	19° $\underline{\cap}$ 24'23	1.2m
	13559 Feb 21 13:42	0° Υ			13563 Nov 04 18:54	0° \cap	
evening set	13559 Mar 03 17:52	6° Υ 23'52			13563 Dec 13 11:03	0° \nearrow	
max. Earth dist.	13559 Apr 05 06:01	27° Υ 01'02 2.66779 AU			13564 Jan 22 18:00	0° \searrow	
	13559 Apr 09 21:52	0° B			13564 Mar 05 20:41	0° \approx	
					13564 Apr 23 02:47	0° \times	
conjunction	13559 Apr 16 14:03	4° B 17'05 -1°09'05		desc. node	13564 Jun 18 06:44	26° \times 28'41	
minimum elong	13559 Apr 16 13:28	4° B 16'09 1°09'35			13564 Jun 30 12:20	0° Υ	
	13559 May 26 01:42	0° Π		retrograde	13564 Jul 22 14:41	2° Υ 47'01	
morning rise	13559 May 30 13:46	2° Π 58'38			13564 Aug 12 05:09	30° \nwarrow	
	13559 Jul 09 17:58	0° C		min. Earth dist.	13564 Aug 31 00:07	23° \times 26'42	0.67849 AU
	13559 Aug 21 20:35	0° Ω		opposition	13564 Sep 01 08:40	22° \times 54'24	-2°37'08
	13559 Oct 02 11:48	0° \cap		greatest brilliancy	13564 Sep 01 04:21	22° \times 58'41	-1.3m

direct	13564 Oct 12 00:07	13°  15'45	evening set	13569 Nov 27 12:19	3°  39'20	
	13564 Dec 13 06:38	0° 		13570 Jan 04 13:30	0° 	
	13565 Feb 08 09:30	0° 				
	13565 Mar 28 15:15	0° 	conjunction	13570 Jan 19 20:54	10°  18'18	0°10'23
	13565 May 11 13:21	0° 	minimum elong	13570 Jan 19 21:23	10°  19'07	0°11'15
	13565 Jun 21 13:37	0° 	behind sun begin	13570 Jan 19 06:23	9°  54'03	
asc. node	13565 Jun 30 10:22	6°  42'18	behind sun end	13570 Jan 20 12:24	10°  44'11	
evening set	13565 Jul 09 20:21	13°  53'56	desc. node	13570 Feb 07 00:18	22°  19'35	
	13565 Jul 30 14:53	0° 	max. Earth dist.	13570 Feb 10 11:45	24°  36'31	2.61299 AU
	13565 Sep 06 15:04	0° 		13570 Feb 18 17:55	0° 	
			morning rise	13570 Mar 08 16:52	11°  36'23	
conjunction	13565 Sep 16 19:33	8°  5'17		13570 Apr 06 15:35	0° 	
minimum elong	13565 Sep 16 15:28	7°  57'11		13570 May 25 02:31	0° 	
max. Earth dist.	13565 Oct 12 15:46	28°  32'54		13570 Jul 14 13:44	0° 	
	13565 Oct 14 12:00	0° 		13570 Sep 07 20:59	0° 	
	13565 Nov 22 02:55	0° 	retrograde	13570 Nov 22 22:16	23°  54'35	
morning rise	13565 Nov 29 12:41	5°  38'07	opposition	13570 Dec 26 22:52	16°  58'25	-3°11'13
	13566 Jan 01 07:33	0° 	greatest brilliancy	13570 Dec 28 02:41	16°  54'31	-2.3m
	13566 Feb 12 19:15	0° 	min. Earth dist.	13571 Jan 04 17:08	13°  59'01	0.47451 AU
	13566 Mar 30 08:46	0° 	direct	13571 Feb 02 02:30	8°  59'07	
desc. node	13566 May 06 00:36	22°  14'08	asc. node	13571 Feb 21 03:39	11°  50'09	
	13566 May 19 17:34	0° 		13571 Apr 05 16:29	0° 	
	13566 Jul 24 22:52	0° 		13571 May 21 15:30	0° 	
retrograde	13566 Aug 25 23:31	5°  18'45		13571 Jul 01 14:27	0° 	
	13566 Sep 24 05:49	30°  57'25		13571 Aug 10 18:06	0° 	
opposition	13566 Oct 05 01:07	25°  57'25		13571 Sep 20 16:49	0° 	
greatest brilliancy	13566 Oct 05 08:55	25°  49'47		13571 Nov 02 05:11	0° 	
min. Earth dist.	13566 Oct 07 13:13	24°  58'28		13571 Dec 16 12:35	0° 	
direct	13566 Nov 15 15:18	15°  55'53	desc. node	13571 Dec 25 15:51	6°  02'51	
	13567 Jan 09 09:48	0° 	evening set	13572 Jan 12 13:33	17°  47'04	
	13567 Mar 06 05:27	0° 		13572 Jan 31 09:53	0° 	
	13567 Apr 20 21:55	0° 				
asc. node	13567 May 18 10:12	19°  40'36	conjunction	13572 Feb 28 00:38	17°  42'05	-0°34'22
	13567 Jun 01 08:16	0° 	minimum elong	13572 Feb 27 23:37	17°  40'28	0°34'01
	13567 Jul 10 10:09	0° 	max. Earth dist.	13572 Mar 05 13:59	21°  52'39	2.67438 AU
greatest brilliancy	13567 Aug 10 14:53	24°  17'36'21		13572 Mar 18 08:46	0° 	
	13567 Aug 17 10:09	0° 	morning rise	13572 Apr 11 19:35	15°  57'28'39	
evening set	13567 Sep 23 19:39	29°  53'22'21		13572 May 04 19:38	0° 	
	13567 Sep 24 09:46	0° 		13572 Jun 21 08:55	0° 	
	13567 Nov 02 06:53	0° 		13572 Aug 07 23:20	0° 	
				13572 Sep 25 01:29	0° 	
conjunction	13567 Nov 30 09:26	20°  57'58		13572 Nov 14 10:47	0° 	
minimum elong	13567 Nov 30 11:44	21°  50'21'11	asc. node	13573 Jan 08 10:06	25°  50'41	
	13567 Dec 12 19:09	0° 		13573 Jan 25 23:22	0° 	
max. Earth dist.	13568 Jan 11 16:48	21°  51'24'45	retrograde	13573 Feb 06 04:28	0°  48'30	
	13568 Jan 24 10:09	0° 		13573 Feb 17 10:37	30°  57'17	
morning rise	13568 Jan 27 05:57	1°  55'57	opposition	13573 Mar 07 17:54	25°  56'29	4°17'50
	13568 Mar 09 10:08	0° 	greatest brilliancy	13573 Mar 07 20:23	25°  54'50	-3.0m
desc. node	13568 Mar 22 12:52	8°  12'26'18	min. Earth dist.	13573 Mar 09 03:01	25°  53'42'29	0.36550 AU
	13568 Apr 26 01:33	0° 	direct	13573 Apr 06 10:49	20°  55'20	
	13568 Jun 16 11:24	0° 		13573 May 15 04:06	0° 	
	13568 Aug 17 17:28	0° 		13573 Jul 09 00:41	0° 	
retrograde	13568 Oct 02 19:23	10°  11'02'18		13573 Aug 24 18:18	0° 	
opposition	13568 Nov 09 18:36	1°  11'36'34		13573 Oct 09 18:48	0° 	
greatest brilliancy	13568 Nov 10 21:13	1°  11'11'14	desc. node	13573 Nov 11 16:41	21°  53'13'40	
	13568 Nov 13 23:51	30°  57'18		13573 Nov 25 09:50	0° 	
min. Earth dist.	13568 Nov 16 02:08	29°  51'12'25		13574 Jan 11 17:35	0° 	
direct	13568 Dec 20 14:33	21°  54'45'37	evening set	13574 Feb 18 01:17	23°  51'31'13	
	13569 Jan 28 03:41	0° 		13574 Feb 28 07:48	0° 	
	13569 Mar 25 21:40	0° 	max. Earth dist.	13574 Mar 27 11:47	17°  51'11'38	2.68034 AU
asc. node	13569 Apr 04 17:22	6°  51'09				
	13569 May 08 17:50	0° 	conjunction	13574 Apr 03 00:26	21°  50'35	-1°03'26
	13569 Jun 17 16:28	0° 	minimum elong	13574 Apr 02 23:29	21°  50'19'05	1°03'41
	13569 Jul 26 04:26	0°		13574 Apr 16 14:06	0°	
	13569 Sep 02 16:09	0°	morning rise	13574 May 16 07:04	19° 58'07'36	
	13569 Oct 12 04:01	0°		13574 Jun 01 23:41	0°	
	13569 Nov 22 08:36	0°		13574 Jul 17 04:44	0°	

	13574 Aug 30 02:27	0°♏			13579 Dec 26 17:05	0°♑	
	13574 Oct 11 18:19	0°♐			13580 Feb 17 20:13	0°♐	
	13574 Nov 22 14:33	0°♑			13580 Apr 05 03:45	0°♐	
asc. node	13574 Nov 26 09:24	2°♑43'12			13580 May 18 20:52	0°♑	
	13575 Jan 03 20:51	0°♐	evening set		13580 Jun 16 06:34	20°♑34'56	
	13575 Feb 19 16:21	0°♑			13580 Jun 28 22:09	0°♏	
retrograde	13575 Apr 19 02:40	19°♑37'54		max. Earth dist.	13580 Jul 05 16:38	5°♏06'00	2.39565 AU
min. Earth dist.	13575 May 15 23:32	14°♑39'32	0.43895 AU	asc. node	13580 Jul 17 03:15	13°♏48'27	
greatest brilliancy	13575 May 22 17:55	12°♑23'20	-2.5m		13580 Aug 07 02:13	0°♐	
opposition	13575 May 24 08:11	11°♑50'59	5°44'38				
direct	13575 Jun 25 08:55	5°♑31'00		conjunction	13580 Aug 17 10:38	8°♐05'44	0°21'58
	13575 Sep 08 13:25	0°♑		minimum elong	13580 Aug 17 08:33	8°♐01'39	0°21'27
desc. node	13575 Sep 30 02:27	11°♑24'04			13580 Sep 14 04:43	0°♑	
	13575 Nov 02 00:50	0°♑			13580 Oct 22 02:33	0°♐	
	13575 Dec 22 17:31	0°♑		morning rise	13580 Oct 30 01:16	6°♐14'35	
	13576 Feb 09 20:35	0°♑			13580 Nov 29 16:54	0°♑	
evening set	13576 Mar 24 06:50	27°♑16'34			13581 Jan 08 20:32	0°♑	
	13576 Mar 28 13:09	0°♑			13581 Feb 20 10:18	0°♑	
max. Earth dist.	13576 Apr 18 20:05	13°♑44'16	2.63160 AU		13581 Apr 07 13:42	0°♑	
				desc. node	13581 May 22 18:06	25°♑59'52	
conjunction	13576 May 07 21:47	26°♑15'28	-1°10'14		13581 May 30 12:53	0°♑	
minimum elong	13576 May 07 22:06	26°♑16'00	1°11'03	retrograde	13581 Aug 12 09:04	22°♑51'03	
	13576 May 13 13:06	0°♐		opposition	13581 Sep 21 20:41	13°♑14'50	-3°48'14
morning rise	13576 Jun 23 08:18	27°♐41'33		greatest brilliancy	13581 Sep 21 22:21	13°♑13'11	-1.2m
	13576 Jun 26 16:08	0°♑		min. Earth dist.	13581 Sep 22 20:05	12°♑51'44	0.68473 AU
	13576 Aug 07 22:43	0°♏		direct	13581 Nov 02 06:11	3°♑19'12	
	13576 Sep 17 13:59	0°♐			13582 Jan 22 22:18	0°♑	
asc. node	13576 Oct 13 01:57	19°♐18'51			13582 Mar 15 05:57	0°♐	
	13576 Oct 27 00:55	0°♑		asc. node	13582 Apr 28 23:32	0°♑	
	13576 Dec 05 01:46	0°♐			13582 Jun 04 01:57	26°♑11'56	
	13577 Jan 13 20:42	0°♑			13582 Jun 09 03:44	0°♏	
	13577 Feb 25 11:37	0°♑			13582 Jul 18 04:08	0°♐	
	13577 Apr 18 13:18	0°♑		evening set	13582 Aug 23 16:48	28°♐51'55	
retrograde	13577 Jun 03 19:01	12°♑05'37			13582 Aug 25 03:05	0°♑	
min. Earth dist.	13577 Jul 06 16:49	4°♑51'16	0.57351 AU		13582 Oct 02 00:32	0°♐	
opposition	13577 Jul 13 03:59	2°♑20'31	1°31'30				
greatest brilliancy	13577 Jul 12 19:32	2°♑28'44	-1.8m	conjunction	13582 Nov 04 01:51	25°♐40'02	1°06'12
	13577 Jul 19 08:47	30°♑		minimum elong	13582 Nov 04 02:25	25°♐41'09	1°06'59
desc. node	13577 Aug 17 13:14	24°♑02'17			13582 Nov 09 18:05	0°♑	
direct	13577 Aug 18 23:51	24°♑01'30			13582 Dec 20 01:55	0°♑	
	13577 Sep 21 22:50	0°♑		max. Earth dist.	13582 Dec 25 01:36	3°♑36'25	2.44315 AU
	13577 Nov 27 18:44	0°♑		morning rise	13583 Jan 07 08:10	13°♑05'50	
	13578 Jan 19 22:00	0°♑			13583 Jan 31 13:48	0°♑	
	13578 Mar 09 23:34	0°♑			13583 Mar 17 15:35	0°♑	
	13578 Apr 25 04:09	0°♐		desc. node	13583 Apr 09 07:44	14°♑22'39	
evening set	13578 May 01 01:23	3°♐56'55			13583 May 04 22:41	0°♑	
max. Earth dist.	13578 May 16 23:32	14°♐46'52	2.53115 AU		13583 Jun 27 22:20	0°♑	
	13578 Jun 07 19:51	0°♑		retrograde	13583 Sep 17 18:41	26°♑07'26	
				opposition	13583 Oct 26 18:10	17°♑16'10	-4°54'28
conjunction	13578 Jun 19 11:42	8°♑17'30	-0°44'56	greatest brilliancy	13583 Oct 27 13:23	16°♑57'35	-1.4m
minimum elong	13578 Jun 19 13:34	8°♑20'50	0°45'58	min. Earth dist.	13583 Oct 31 14:28	15°♑23'43	0.64011 AU
	13578 Jul 19 06:29	0°♏		direct	13583 Dec 07 03:05	7°♑15'24	
morning rise	13578 Aug 14 20:37	19°♏58'44			13584 Feb 15 22:45	0°♐	
	13578 Aug 27 22:56	0°♐			13584 Apr 05 08:36	0°♑	
asc. node	13578 Aug 30 13:32	2°♐00'32		asc. node	13584 Apr 21 06:53	10°♑53'50	
	13578 Oct 05 12:11	0°♑			13584 May 17 19:32	0°♏	
	13578 Nov 12 17:08	0°♐			13584 Jun 26 06:19	0°♐	
	13578 Dec 21 12:02	0°♑			13584 Aug 03 11:18	0°♑	
	13579 Jan 30 23:45	0°♑			13584 Sep 10 16:20	0°♐	
	13579 Mar 15 18:49	0°♑			13584 Oct 19 20:35	0°♑	
	13579 May 06 00:22	0°♑		evening set	13584 Nov 04 21:30	11°♑56'53	
desc. node	13579 Jul 05 19:38	19°♑47'03			13584 Nov 29 16:52	0°♑	
retrograde	13579 Jul 10 08:32	19°♑54'55					
min. Earth dist.	13579 Aug 17 04:29	11°♑04'02	0.66149 AU	conjunction	13585 Jan 01 23:23	23°♑23'38	0°29'47
opposition	13579 Aug 20 00:51	9°♑56'06	-1°41'02	minimum elong	13585 Jan 02 00:51	23°♑26'10	0°30'45
greatest brilliancy	13579 Aug 19 19:44	10°♑01'10	-1.4m		13585 Jan 11 14:34	0°♑	
direct	13579 Sep 28 22:05	0°♑33'16		max. Earth dist.	13585 Jan 30 23:30	13°♑04'43	2.57408 AU

morning rise	13585 Feb 21 18:41	27°≈29'09	min. Earth dist.	13590 Apr 20 19:23	17°ℳ25'27	0.39069 AU
desc. node	13585 Feb 23 18:00	28°≈46'25	greatest brilliancy	13590 Apr 25 21:00	15°ℳ55'03	-2.8m
	13585 Feb 25 15:08	0°℥	opposition	13590 Apr 27 09:04	15°ℳ28'03	6°46'37
	13585 Apr 13 16:22	0°Υ	direct	13590 May 27 07:51	10°ℳ06'46	
	13585 Jun 01 21:36	0°♁		13590 Jul 30 14:11	0°♁	
	13585 Jul 24 17:20	0°Ⅱ		13590 Sep 22 14:07	0°♁	
	13585 Sep 30 05:15	0°♁	desc. node	13590 Oct 16 11:56	14°♁15'34	
retrograde	13585 Oct 31 19:24	5°♁11'18		13590 Nov 11 11:30	0°≈	
	13585 Nov 29 20:41	30°℞Ⅱ		13590 Dec 30 10:47	0°℥	
opposition	13585 Dec 06 14:23	27°Ⅱ38'27	-4°20'42	13591 Feb 16 19:56	0°Υ	
greatest brilliancy	13585 Dec 07 23:12	27°Ⅱ08'34	-2.0m	13591 Mar 11 12:39	14°Υ15'26	
min. Earth dist.	13585 Dec 14 18:58	24°Ⅱ40'15	0.53032 AU	13591 Apr 05 06:48	0°♁	
direct	13586 Jan 14 16:21	18°Ⅱ27'46	max. Earth dist.	13591 Apr 10 10:06	3°♁17'47	2.65708 AU
	13586 Feb 28 13:31	0°♁				
asc. node	13586 Mar 09 15:04	4°♁23'09	conjunction	13591 Apr 24 12:22	12°♁23'50	-1°10'45
	13586 Apr 21 04:36	0°♁	minimum elong	13591 Apr 24 12:05	12°♁23'22	1°11'22
	13586 Jun 02 04:42	0°♐		13591 May 21 09:05	0°Ⅱ	
	13586 Jul 11 16:36	0°♎	morning rise	13591 Jun 08 04:16	11°Ⅱ52'14	
	13586 Aug 19 22:07	0°ℳ		13591 Jul 04 20:27	0°♁	
	13586 Sep 29 02:44	0°♁		13591 Aug 16 15:21	0°♁	
	13586 Nov 09 23:08	0°♁		13591 Sep 26 21:11	0°♐	
	13586 Dec 23 17:33	0°≈	asc. node	13591 Oct 30 20:56	25°♐23'54	
evening set	13586 Dec 27 02:14	2°≈15'11		13591 Nov 05 23:20	0°♎	
desc. node	13587 Jan 11 08:25	12°≈23'52		13591 Dec 15 17:04	0°ℳ	
	13587 Feb 07 06:05	0°℥		13592 Jan 25 14:03	0°♁	
				13592 Mar 11 04:20	0°♁	
conjunction	13587 Feb 13 14:16	4°℥06'09	-0°18'31	13592 May 18 10:24	24°♁24'13	
minimum elong	13587 Feb 13 13:38	4°℥05'07	0°17'57	13592 Jun 17 23:54	17°♁59'16	0.52384 AU
max. Earth dist.	13587 Feb 25 14:48	11°℥50'30	2.65676 AU	13592 Jun 25 15:25	15°♁06'36	3°06'49
	13587 Mar 26 02:30	0°Υ	greatest brilliancy	13592 Jun 24 19:32	15°♁25'23	-2.0m
morning rise	13587 Mar 30 11:55	2°Υ46'52	direct	13592 Jul 30 19:33	7°♁25'57	
	13587 May 12 19:33	0°♁	desc. node	13592 Sep 02 23:17	13°♁37'04	
	13587 Jun 30 04:13	0°Ⅱ		13592 Oct 12 07:25	0°≈	
	13587 Aug 18 13:40	0°♁		13592 Dec 07 13:42	0°℥	
	13587 Oct 09 21:21	0°♁		13593 Jan 27 15:08	0°Υ	
	13587 Dec 23 15:58	0°♐		13593 Mar 17 00:26	0°♁	
retrograde	13588 Jan 05 09:42	0°♐59'05	evening set	13593 Apr 15 16:09	19°♁08'34	
	13588 Jan 17 18:44	30°℞♁		13593 May 02 01:49	0°Ⅱ	
asc. node	13588 Jan 25 23:48	28°♁20'59	max. Earth dist.	13593 May 04 22:50	1°Ⅱ55'24	2.57623 AU
opposition	13588 Feb 05 01:30	25°♁37'09	0°43'40			
greatest brilliancy	13588 Feb 05 05:30	25°♁34'14	-2.9m	conjunction	13593 Jun 01 13:07	20°Ⅱ42'35
min. Earth dist.	13588 Feb 11 10:50	23°♁45'31	0.39302 AU	minimum elong	13593 Jun 01 14:32	20°Ⅱ45'01
direct	13588 Mar 08 17:07	19°♁25'12			13593 Jun 14 21:03	0°♁
	13588 Apr 18 22:20	0°♐	morning rise	13593 Jul 22 20:33	27°♁15'18	
	13588 Jun 09 11:21	0°♎		13593 Jul 26 14:17	0°♁	
	13588 Jul 23 08:45	0°ℳ		13593 Sep 04 14:16	0°♐	
	13588 Sep 04 13:55	0°♁	asc. node	13593 Sep 16 10:43	9°♐05'13	
	13588 Oct 18 16:54	0°♁		13593 Oct 13 10:10	0°♎	
desc. node	13588 Nov 28 06:07	26°♁47'54		13593 Nov 20 20:25	0°ℳ	
	13588 Dec 03 04:03	0°≈		13593 Dec 29 20:39	0°♁	
	13589 Jan 18 18:58	0°℥		13594 Feb 08 18:23	0°♁	
evening set	13589 Feb 03 23:31	10°℥18'06		13594 Mar 25 21:27	0°≈	
	13589 Mar 07 01:13	0°Υ		13594 May 24 09:16	0°℥	
max. Earth dist.	13589 Mar 19 00:57	7°Υ35'41	2.68447 AU	retrograde	13594 Jun 26 17:56	6°℥21'25
				desc. node	13594 Jul 22 08:05	1°℥55'38
					13594 Jul 27 19:17	30°℞≈
conjunction	13589 Mar 20 12:48	8°Υ32'28	-0°54'26	min. Earth dist.	13594 Aug 01 19:38	28°≈04'14
minimum elong	13589 Mar 20 11:40	8°Υ30'40	0°54'28	opposition	13594 Aug 06 03:15	26°≈21'34
	13589 Apr 23 07:31	0°♁		greatest brilliancy	13594 Aug 06 00:41	-0°35'11
morning rise	13589 May 02 15:16	5°♁56'59		direct	13594 Sep 14 00:30	17°≈19'14
	13589 Jun 09 01:16	0°Ⅱ			13594 Nov 05 21:26	0°℥
	13589 Jul 24 23:31	0°♁			13595 Jan 05 15:58	0°Υ
	13589 Sep 08 00:10	0°♁			13595 Feb 25 15:48	0°♁
	13589 Oct 22 07:00	0°♎			13595 Apr 13 09:43	0°Ⅱ
	13589 Dec 05 14:54	0°♎			13595 May 27 01:19	0°♁
asc. node	13589 Dec 13 03:23	4°♎59'18		evening set	13595 May 28 00:31	0°♁41'09
	13590 Jan 22 06:15	0°ℳ		max. Earth dist.	13595 Jun 10 17:44	10°♁30'54
retrograde	13590 Mar 25 23:01	21°ℳ44'44				2.45007 AU

	13595 Jul 07 05:38	0°♂	morning rise	13600 Feb 06 09:11	12°≈00'09	
				13600 Mar 04 14:59	0°♄	
conjunction	13595 Jul 22 22:27	11°♂49'59 -0°08'27	desc. node	13600 Mar 12 14:12	5°♄09'41	
minimum elong	13595 Jul 22 23:09	11°♂51'20 0°09'18		13600 Apr 20 23:01	0°♄	
behind sun begin	13595 Jul 22 01:45	11°♂10'41		13600 Jun 10 07:57	0°♄	
behind sun end	13595 Jul 23 20:34	12°♂32'02		13600 Aug 06 11:21	0°♂	
asc. node	13595 Aug 03 23:41	21°♂02'45	retrograde	13600 Oct 12 16:19	18°♂59'52	
	13595 Aug 15 13:57	0°♄	opposition	13600 Nov 18 22:39	10°♂50'37 -4°51'50	
	13595 Sep 22 19:49	0°♂	greatest brilliancy	13600 Nov 20 04:30	10°♂22'31 -1.7m	
morning rise	13595 Sep 28 11:06	4°♂27'23	min. Earth dist.	13600 Nov 25 23:39	8°♂11'52 0.58029 AU	
	13595 Oct 30 19:16	0°♂	direct	13600 Dec 29 06:47	1°♂09'43	
	13595 Dec 08 09:48	0°♄		13601 Mar 18 02:50	0°♄	
	13596 Jan 17 13:50	0°♄	asc. node	13601 Mar 26 03:49	4°♄54'12	
	13596 Feb 29 08:55	0°≈		13601 May 02 12:53	0°♂	
	13596 Apr 16 12:47	0°♄		13601 Jun 12 00:17	0°♄	
desc. node	13596 Jun 08 09:00	27°♄36'07		13601 Jul 20 18:32	0°♂	
	13596 Jun 14 04:02	0°♄		13601 Aug 28 10:44	0°♂	
retrograde	13596 Jul 30 03:32	10°♄28'34		13601 Oct 07 02:55	0°♄	
opposition	13596 Sep 08 20:36	0°♄40'44 -3°06'04		13601 Nov 17 11:30	0°♄	
min. Earth dist.	13596 Sep 08 07:43	0°♄53'30 0.68364 AU	evening set	13601 Dec 08 20:56	14°♄58'44	
greatest brilliancy	13596 Sep 08 17:48	0°♄43'30 -1.3m		13601 Dec 30 19:51	0°≈	
	13596 Sep 10 13:43	30°♄				
direct	13596 Oct 19 20:09	20°♄55'01				
	13596 Dec 02 07:09	0°♄				
	13597 Feb 02 07:05	0°♄				
	13597 Mar 23 10:26	0°♂				
	13597 May 06 15:12	0°♄				
	13597 Jun 16 17:06	0°♂				
asc. node	13597 Jun 20 17:17	3°♂01'12				
evening set	13597 Jul 24 21:33	29°♂19'11				
	13597 Jul 25 18:26	0°♄				
	13597 Sep 01 18:14	0°♂				
conjunction	13597 Oct 04 14:44	26°♂02'53 1°00'55				
minimum elong	13597 Oct 04 11:37	25°♂56'43 1°01'15				
	13597 Oct 09 15:04	0°♂				
	13597 Nov 17 06:20	0°♄				
max. Earth dist.	13597 Nov 25 13:11	6°♄17'57 2.38682 AU				
morning rise	13597 Dec 14 17:12	20°♄38'48				
	13597 Dec 27 10:57	0°♄				
	13598 Feb 07 21:02	0°≈				
	13598 Mar 25 03:35	0°♄				
desc. node	13598 Apr 26 02:01	19°♄47'16				
	13598 May 13 11:44	0°♄				
	13598 Jul 11 13:43	0°♄				
retrograde	13598 Sep 03 00:31	13°♄03'16				
opposition	13598 Oct 12 18:01	3°♄51'24 -4°37'07				
greatest brilliancy	13598 Oct 13 05:44	3°♄39'58 -1.3m				
min. Earth dist.	13598 Oct 16 02:02	2°♄33'12 0.66563 AU				
	13598 Oct 22 19:49	30°♄				
direct	13598 Nov 23 07:57	23°♄48'31				
	13598 Dec 27 12:16	0°♄				
	13599 Feb 27 17:56	0°♂				
	13599 Apr 15 10:29	0°♄				
asc. node	13599 May 08 19:21	16°♄29'41				
	13599 May 27 04:12	0°♂				
	13599 Jul 05 08:51	0°♄				
	13599 Aug 12 10:08	0°♂				
	13599 Sep 19 11:00	0°♂				
evening set	13599 Oct 10 09:35	16°♂15'19				
	13599 Oct 28 09:54	0°♄				
	13599 Dec 08 00:01	0°♄				
conjunction	13599 Dec 13 10:39	3°♄54'51 0°48'17				
minimum elong	13599 Dec 13 12:56	3°♄58'56 0°49'19				
	13600 Jan 19 16:16	0°≈				
max. Earth dist.	13600 Jan 19 18:55	0°≈04'32 2.52763 AU				