

conjunction	1101 Jun 22 j 20:30	6°♄41'44	0°55'26		1106 Jun 02 j 02:54	0°♃	
minimum elong	1101 Jun 22 j 19:08	6°♄39'31	0°55'25		1106 Jul 17 j 23:07	0°♄	
max. Earth dist.	1101 Jul 06 j 14:00	15°♄35'48	2.64319 AU	retrograde	1106 Sep 25 j 09:16	25°♄03'03	
	1101 Jul 29 j 00:15	0°♂		min. Earth dist.	1106 Oct 25 j 10:29	18°♄49'44	0.50881 AU
morning rise	1101 Aug 09 j 05:51	7°♂09'44		asc. node	1106 Oct 27 j 02:30	18°♄12'54	
	1101 Sep 14 j 08:04	0°♃		opposition	1106 Nov 02 j 04:19	15°♄56'07	0°18'35
	1101 Nov 01 j 06:45	0°♁		greatest brilliancy	1106 Nov 07 j 15:11	13°♄57'17	-2.1m
	1101 Dec 20 j 05:17	0°♂		direct	1106 Dec 06 j 13:34	8°♄27'44	
	1102 Feb 10 j 01:45	0°♂			1107 Feb 14 j 19:16	0°♂	
desc. node	1102 Mar 24 j 20:09	21°♂02'03			1107 Apr 11 j 15:41	0°♄	
	1102 Apr 20 j 06:39	0°♄			1107 Jun 01 j 14:09	0°♂	
retrograde	1102 May 12 j 19:00	2°♄53'36			1107 Jul 20 j 05:02	0°♃	
	1102 Jun 03 j 15:41	30°♂♂		evening set	1107 Aug 28 j 04:22	25°♃02'52	
opposition	1102 Jun 13 j 06:37	27°♂20'13	-4°-31'-17		1107 Sep 04 j 16:59	0°♁	
greatest brilliancy	1102 Jun 14 j 16:43	26°♂54'54	-2.6m	max. Earth dist.	1107 Sep 17 j 08:22	8°♁24'34	2.57837 AU
min. Earth dist.	1102 Jun 19 j 22:20	25°♂22'14	0.40992 AU				
direct	1102 Jul 16 j 23:18	20°♂51'01		conjunction	1107 Oct 14 j 12:10	26°♁52'54	0°18'34
	1102 Aug 24 j 10:55	0°♄		minimum elong	1107 Oct 14 j 12:53	26°♁54'09	0°18'33
	1102 Oct 16 j 09:09	0°♂			1107 Oct 19 j 00:14	0°♂	
	1102 Nov 29 j 05:03	0°♂		desc. node	1107 Nov 14 j 17:06	18°♂49'01	
	1103 Jan 10 j 20:38	0°♃			1107 Nov 30 j 05:17	0°♂	
asc. node	1103 Jan 22 j 03:24	7°♃53'17		morning rise	1107 Dec 03 j 01:24	2°♂03'58	
	1103 Feb 23 j 04:16	0°♄			1108 Jan 09 j 16:33	0°♄	
	1103 Apr 08 j 20:01	0°♂			1108 Feb 17 j 23:11	0°♂	
	1103 May 24 j 20:08	0°♄			1108 Mar 27 j 18:45	0°♂	
evening set	1103 Jun 14 j 13:53	13°♄18'45			1108 May 06 j 01:18	0°♃	
	1103 Jul 10 j 17:46	0°♂			1108 Jun 16 j 00:17	0°♄	
					1108 Jul 30 j 17:55	0°♂	
conjunction	1103 Jul 31 j 11:54	13°♂12'22	1°09'15	asc. node	1108 Sep 13 j 00:49	24°♂40'24	
minimum elong	1103 Jul 31 j 11:53	13°♂12'21	1°09'16		1108 Sep 25 j 06:28	0°♄	
max. Earth dist.	1103 Jul 30 j 13:29	12°♂36'43	2.67537 AU	retrograde	1108 Nov 04 j 02:55	8°♄56'15	
	1103 Aug 26 j 20:24	0°♃		min. Earth dist.	1108 Dec 09 j 09:30	0°♄49'11	0.62029 AU
morning rise	1103 Sep 14 j 03:08	11°♃41'52			1108 Dec 11 j 10:53	30°♂♂	
	1103 Oct 12 j 12:59	0°♁		opposition	1108 Dec 13 j 23:45	28°♂59'12	3°27'43
	1103 Nov 27 j 12:00	0°♂		greatest brilliancy	1108 Dec 13 j 03:56	29°♂18'58	-1.5m
	1104 Jan 11 j 17:57	0°♂		direct	1109 Jan 21 j 02:47	20°♂03'55	
desc. node	1104 Feb 09 j 19:05	19°♂25'24			1109 Mar 07 j 08:19	0°♄	
	1104 Feb 25 j 14:11	0°♄			1109 May 08 j 18:50	0°♂	
	1104 Apr 10 j 21:23	0°♂			1109 Jun 29 j 10:49	0°♃	
	1104 May 30 j 01:39	0°♂			1109 Aug 15 j 22:13	0°♁	
retrograde	1104 Jul 30 j 15:00	20°♂23'28			1109 Sep 29 j 07:04	0°♂	
min. Earth dist.	1104 Aug 26 j 09:58	15°♂56'35	0.38901 AU	desc. node	1109 Oct 01 j 15:31	1°♂38'38	
opposition	1104 Aug 31 j 20:37	14°♂22'10	-5°-37'-54	evening set	1109 Oct 08 j 18:01	6°♂38'29	
greatest brilliancy	1104 Aug 30 j 15:29	14°♂43'16	-2.8m	max. Earth dist.	1109 Oct 23 j 15:13	17°♂16'01	2.46018 AU
direct	1104 Sep 30 j 17:10	9°♂08'05			1109 Nov 10 j 02:22	0°♂	
	1104 Dec 05 j 08:21	0°♃					
asc. node	1104 Dec 09 j 03:20	1°♃58'28		conjunction	1109 Dec 01 j 08:22	15°♂51'01	0°-36'-20
	1105 Jan 27 j 00:03	0°♄		minimum elong	1109 Dec 01 j 06:29	15°♂47'27	0°36'19
	1105 Mar 16 j 20:42	0°♂			1109 Dec 19 j 22:37	0°♄	
	1105 May 04 j 03:24	0°♄			1110 Jan 27 j 13:24	0°♂	
	1105 Jun 21 j 05:25	0°♂		morning rise	1110 Jan 31 j 16:57	3°♂15'09	
evening set	1105 Jul 21 j 12:29	19°♂04'29		greatest brilliancy	1110 Feb 28 j 23:10	25°♂26'37	1.2m
	1105 Aug 07 j 16:54	0°♃			1110 Mar 06 j 18:44	0°♂	
max. Earth dist.	1105 Aug 21 j 19:39	9°♃03'05	2.65293 AU		1110 Apr 14 j 11:43	0°♃	
					1110 May 24 j 14:03	0°♄	
conjunction	1105 Sep 05 j 02:54	18°♃18'04	0°56'14		1110 Jul 06 j 01:32	0°♂	
minimum elong	1105 Sep 05 j 03:59	18°♃19'50	0°56'14	asc. node	1110 Aug 01 j 00:33	17°♂12'40	
	1105 Sep 23 j 00:09	0°♁			1110 Aug 21 j 09:51	0°♄	
morning rise	1105 Oct 20 j 04:01	18°♁04'20			1110 Oct 15 j 22:03	0°♂	
	1105 Nov 06 j 18:30	0°♂		retrograde	1110 Dec 09 j 05:45	14°♂18'39	
	1105 Dec 19 j 22:18	0°♂		opposition	1111 Jan 18 j 09:23	4°♂31'23	4°31'36
desc. node	1105 Dec 27 j 18:13	5°♂33'23		greatest brilliancy	1111 Jan 18 j 04:13	4°♂36'34	-1.2m
	1106 Jan 30 j 15:54	0°♄		min. Earth dist.	1111 Jan 17 j 15:08	4°♂49'41	0.67384 AU
	1106 Mar 12 j 08:30	0°♂			1111 Jan 30 j 06:10	30°♂♂	
	1106 Apr 21 j 17:18	0°♂		direct	1111 Feb 27 j 20:04	24°♄49'06	

	1111 Mar 31 j 08:53	0°♈		1116 May 05 j 20:13	0°♈	
	1111 Jun 06 j 04:08	0°♍				
	1111 Jul 26 j 16:15	0°♌				
desc. node	1111 Aug 19 j 14:48	15°♌32'58	conjunction	1116 Jun 06 j 03:29	21°♈07'53	0°42'11
	1111 Sep 09 j 21:41	0°♍	minimum elong	1116 Jun 06 j 01:56	21°♈05'19	0°42'09
	1111 Oct 21 j 18:38	0°♎		1116 Jun 19 j 13:11	0°♉	
	1111 Nov 30 j 09:12	0°♏	max. Earth dist.	1116 Jun 26 j 18:14	4°♉43'48	2.61571 AU
evening set	1111 Dec 03 j 01:46	2°♏04'59	morning rise	1116 Jul 25 j 15:27	23°♉26'21	
	1112 Jan 07 j 16:48	0°♐		1116 Aug 04 j 21:35	0°♈	
				1116 Sep 21 j 12:07	0°♍	
conjunction	1112 Feb 06 j 09:38	23°♐28'03	-1°-3'-44	1116 Nov 09 j 09:08	0°♌	
minimum elong	1112 Feb 06 j 10:54	23°♐30'31	1°03'46	1116 Dec 30 j 19:08	0°♍	
	1112 Feb 14 j 16:42	0°♎		1117 Mar 02 j 06:03	0°♏	
max. Earth dist.	1112 Mar 15 j 14:54	23°♎20'23	2.37965 AU	desc. node	1117 Apr 10 j 11:23	9°♏25'36
	1112 Mar 24 j 06:47	0°♏		retrograde	1117 Apr 15 j 02:23	9°♏33'18
morning rise	1112 Apr 16 j 11:57	17°♏34'39		opposition	1117 May 18 j 12:31	3°♏08'12 -2°-3'-45
	1112 May 03 j 06:33	0°♐		greatest brilliancy	1117 May 19 j 11:05	2°♏49'44 -2.3m
	1112 Jun 14 j 08:03	0°♈		min. Earth dist.	1117 May 26 j 21:25	0°♏24'17 0.45814 AU
asc. node	1112 Jun 17 j 23:20	2°♈30'51			1117 May 28 j 04:19	30°♍
	1112 Jul 29 j 00:48	0°♉		direct	1117 Jun 24 j 03:34	25°♍18'05
	1112 Sep 15 j 07:44	0°♈			1117 Jul 21 j 03:18	0°♏
	1112 Nov 10 j 05:58	0°♍			1117 Sep 16 j 21:21	0°♏
retrograde	1113 Jan 12 j 06:34	17°♍37'08			1117 Oct 30 j 06:10	0°♐
opposition	1113 Feb 20 j 14:00	8°♍25'29	4°10'51		1117 Dec 10 j 05:35	0°♎
greatest brilliancy	1113 Feb 21 j 03:45	8°♍11'56	-1.3m	asc. node	1118 Jan 20 j 07:10	0°♏
min. Earth dist.	1113 Feb 23 j 16:48	7°♍11'55	0.66179 AU		1118 Feb 07 j 20:44	13°♏19'02
	1113 Mar 18 j 05:46	30°♍			1118 Mar 03 j 13:01	0°♏
direct	1113 Apr 02 j 23:21	28°♍23'55			1118 Apr 16 j 10:26	0°♈
	1113 Apr 19 j 15:11	0°♍		evening set	1118 May 29 j 17:06	28°♈33'46
	1113 Jul 01 j 00:49	0°♌			1118 May 31 j 22:08	0°♉
desc. node	1113 Jul 06 j 14:16	3°♌10'13		conjunction	1118 Jul 16 j 23:16	29°♉37'34 1°07'14
	1113 Aug 18 j 12:28	0°♍		minimum elong	1118 Jul 16 j 22:41	29°♉36'38 1°07'14
	1113 Sep 30 j 08:27	0°♎			1118 Jul 17 j 13:19	0°♈
	1113 Nov 09 j 05:28	0°♏		max. Earth dist.	1118 Jul 21 j 11:14	2°♈29'54 2.66917 AU
	1113 Dec 17 j 14:52	0°♐		morning rise	1118 Aug 31 j 07:16	28°♈29'45
evening set	1114 Jan 24 j 16:48	0°♑			1118 Sep 02 j 16:02	0°♍
	1114 Feb 10 j 15:20	13°♑13'00			1118 Oct 19 j 17:06	0°♌
	1114 Mar 04 j 11:00	0°♒			1118 Dec 05 j 12:10	0°♍
	1114 Apr 13 j 16:23	0°♑			1119 Jan 21 j 07:36	0°♏
conjunction	1114 Apr 16 j 06:24	1°♑52'49	0°-12'-25	desc. node	1119 Feb 26 j 11:02	22°♏49'02
minimum elong	1114 Apr 16 j 07:18	1°♑54'27	0°12'25		1119 Mar 10 j 01:51	0°♏
behind sun begin	1114 Apr 15 j 14:54	1°♑24'40			1119 May 01 j 10:14	0°♐
behind sun end	1114 Apr 16 j 23:42	2°♑24'13		retrograde	1119 Jul 01 j 20:46	18°♐57'09
asc. node	1114 May 05 j 21:19	15°♑58'12		opposition	1119 Aug 01 j 02:16	13°♐54'49 -6°-53'-17
	1114 May 25 j 21:34	0°♈		greatest brilliancy	1119 Aug 01 j 01:07	13°♐55'34 -2.9m
max. Earth dist.	1114 May 27 j 11:13	1°♈05'09	2.51047 AU	min. Earth dist.	1119 Jul 31 j 14:08	14°♐02'51 0.37340 AU
morning rise	1114 Jun 13 j 20:03	12°♈58'35		direct	1119 Aug 30 j 20:10	8°♐58'55
	1114 Jul 09 j 07:35	0°♉			1119 Nov 02 j 22:54	0°♎
	1114 Aug 24 j 23:58	0°♈			1119 Dec 23 j 06:40	0°♏
	1114 Oct 13 j 08:42	0°♍		asc. node	1119 Dec 26 j 18:56	2°♏13'20
	1114 Dec 07 j 03:55	0°♌			1120 Feb 07 j 23:59	0°♏
retrograde	1115 Feb 21 j 08:25	23°♌38'18			1120 Mar 25 j 13:44	0°♈
opposition	1115 Mar 30 j 14:32	15°♌27'36	2°18'05		1120 May 11 j 17:00	0°♉
greatest brilliancy	1115 Mar 31 j 10:45	15°♌08'35	-1.6m	evening set	1120 Jun 28 j 05:09	0°♈
min. Earth dist.	1115 Apr 06 j 09:03	12°♌55'09	0.58476 AU	max. Earth dist.	1120 Jul 07 j 00:55	5°♈34'36
direct	1115 May 10 j 04:41	5°♌45'34			1120 Aug 12 j 17:38	28°♈53'09 2.66803 AU
desc. node	1115 May 24 j 12:48	7°♌02'04			1120 Aug 14 j 11:29	0°♍
	1115 Jul 21 j 01:17	0°♍		conjunction	1120 Aug 21 j 19:37	4°♍41'59 1°04'18
	1115 Sep 06 j 13:42	0°♎		minimum elong	1120 Aug 21 j 20:23	4°♍43'13 1°04'18
	1115 Oct 18 j 00:24	0°♏			1120 Sep 29 j 20:49	0°♌
	1115 Nov 26 j 04:42	0°♐		morning rise	1120 Oct 05 j 07:41	3°♌34'39
	1116 Jan 03 j 21:05	0°♑			1120 Nov 14 j 00:01	0°♍
	1116 Feb 12 j 05:43	0°♒			1120 Dec 27 j 18:55	0°♏
asc. node	1116 Mar 22 j 21:14	29°♒08'29		desc. node	1121 Jan 13 j 09:50	11°♏36'55
	1116 Mar 24 j 01:54	0°♑			1121 Feb 08 j 09:15	0°♏
evening set	1116 Apr 12 j 18:02	13°♑58'31			1121 Mar 22 j 03:36	0°♐

	1121 May 02 j 22:55	0°♄			1126 Apr 19 j 16:26	0°♄		
	1121 Jun 16 j 01:57	0°♃			1126 Jun 15 j 15:22	0°♃		
	1121 Aug 14 j 23:21	0°♂			1126 Aug 03 j 13:37	0°♂		
retrograde	1121 Sep 06 j 02:32	3°♂20'13		desc. node	1126 Sep 05 j 07:03	21°♂41'34		
	1121 Sep 27 j 15:06	30°♃			1126 Sep 17 j 08:41	0°♃		
min. Earth dist.	1121 Oct 04 j 00:46	27°♃58'44	0.45658 AU		1126 Oct 29 j 04:03	0°♂		
greatest brilliancy	1121 Oct 11 j 09:50	25°♃24'58	-2.4m	evening set	1126 Nov 09 j 07:18	8°♂17'06		
opposition	1121 Oct 12 j 04:00	25°♃09'05	-1°-46'-5		1126 Dec 07 j 20:12	0°♂		
asc. node	1121 Nov 12 j 18:10	18°♃31'13		max. Earth dist.	1126 Dec 08 j 22:36	0°♂50'56	2.38527 AU	
direct	1121 Nov 13 j 18:35	18°♃30'48						
	1121 Dec 30 j 22:41	0°♂		conjunction	1127 Jan 08 j 21:30	25°♂00'03	-1°-2'-7	
	1122 Feb 28 j 03:45	0°♂		minimum elong	1127 Jan 08 j 19:55	24°♂56'56	1°02'08	
	1122 Apr 20 j 15:40	0°♂			1127 Jan 15 j 05:52	0°♂		
	1122 Jun 09 j 03:35	0°♄			1127 Feb 22 j 06:52	0°♄		
	1122 Jul 27 j 05:00	0°♃		morning rise	1127 Mar 19 j 10:48	19°♃39'27		
evening set	1122 Aug 13 j 06:00	10°♃53'23			1127 Apr 01 j 20:49	0°♃		
max. Earth dist.	1122 Sep 06 j 07:52	26°♃32'36	2.61347 AU		1127 May 11 j 19:47	0°♂		
	1122 Sep 11 j 13:47	0°♂			1127 Jun 22 j 22:06	0°♂		
				asc. node	1127 Jul 05 j 15:09	8°♂41'47		
conjunction	1122 Sep 28 j 11:56	11°♂16'05	0°35'55		1127 Aug 06 j 23:11	0°♂		
minimum elong	1122 Sep 28 j 13:04	11°♂17'58	0°35'55		1127 Sep 25 j 16:43	0°♄		
	1122 Oct 26 j 00:14	0°♃			1127 Nov 30 j 12:41	0°♃		
morning rise	1122 Nov 14 j 15:47	13°♃42'17		retrograde	1127 Dec 30 j 09:12	4°♃49'09		
desc. node	1122 Dec 01 j 09:04	25°♃35'03			1128 Jan 26 j 18:42	30°♃		
	1122 Dec 07 j 12:33	0°♂		opposition	1128 Feb 08 j 03:47	25°♄20'58	4°28'21	
	1123 Jan 17 j 09:30	0°♂		greatest brilliancy	1128 Feb 08 j 10:31	25°♄14'16	-1.2m	
	1123 Feb 26 j 02:25	0°♂		min. Earth dist.	1128 Feb 09 j 18:21	24°♄42'42	0.67441 AU	
	1123 Apr 06 j 08:05	0°♄		direct	1128 Mar 20 j 08:35	15°♄23'35		
	1123 May 16 j 02:21	0°♃			1128 May 15 j 17:13	0°♃		
	1123 Jun 26 j 22:22	0°♂			1128 Jul 11 j 06:22	0°♂		
	1123 Aug 13 j 10:52	0°♂		desc. node	1128 Jul 23 j 05:33	7°♂19'29		
asc. node	1123 Sep 30 j 17:30	20°♂48'32			1128 Aug 26 j 23:22	0°♃		
retrograde	1123 Oct 21 j 07:49	23°♂33'00			1128 Oct 08 j 07:04	0°♂		
min. Earth dist.	1123 Nov 23 j 16:09	16°♂06'31	0.58248 AU		1128 Nov 17 j 00:15	0°♂		
opposition	1123 Nov 29 j 16:19	13°♂44'39	2°33'22		1128 Dec 25 j 08:04	0°♂		
greatest brilliancy	1123 Nov 28 j 20:13	14°♂04'26	-1.7m	evening set	1129 Jan 13 j 09:44	15°♂04'07		
direct	1124 Jan 05 j 12:30	5°♂17'26			1129 Feb 01 j 08:17	0°♄		
	1124 Mar 23 j 13:54	0°♂			1129 Mar 11 j 23:52	0°♃		
	1124 May 17 j 23:42	0°♄						
	1124 Jul 07 j 02:22	0°♃		conjunction	1129 Mar 21 j 21:58	7°♃32'51	0°-37'-43	
	1124 Aug 23 j 02:07	0°♂		minimum elong	1129 Mar 22 j 00:44	7°♃38'05	0°37'42	
evening set	1124 Sep 21 j 03:21	19°♂28'40			1129 Apr 21 j 01:46	0°♂		
	1124 Oct 06 j 09:21	0°♃		max. Earth dist.	1129 May 09 j 23:28	13°♂40'16	2.45782 AU	
max. Earth dist.	1124 Oct 06 j 15:24	0°♃10'32	2.51033 AU	asc. node	1129 May 22 j 14:53	22°♂38'15		
desc. node	1124 Oct 18 j 08:27	8°♃24'08		morning rise	1129 May 24 j 14:32	24°♂01'58		
					1129 Jun 02 j 03:42	0°♂		
conjunction	1124 Nov 10 j 13:13	25°♃03'23	0°-14'-17		1129 Jul 16 j 13:36	0°♂		
minimum elong	1124 Nov 10 j 12:30	25°♃02'05	0°14'17		1129 Sep 01 j 14:41	0°♄		
behind sun begin	1124 Nov 10 j 01:42	24°♃42'26			1129 Oct 22 j 09:58	0°♃		
behind sun end	1124 Nov 10 j 23:19	25°♃21'45			1129 Dec 23 j 13:02	0°♂		
	1124 Nov 17 j 07:33	0°♂		retrograde	1130 Feb 04 j 18:03	9°♂08'44		
	1124 Dec 27 j 08:39	0°♂		opposition	1130 Mar 14 j 23:34	0°♂30'13	3°15'04	
morning rise	1125 Jan 05 j 06:09	6°♂48'45		greatest brilliancy	1130 Mar 15 j 20:23	0°♂10'10	-1.5m	
	1125 Feb 04 j 04:23	0°♂			1130 Mar 16 j 06:56	30°♃		
	1125 Mar 14 j 13:43	0°♄		min. Earth dist.	1130 Mar 20 j 09:31	28°♃25'22	0.62226 AU	
	1125 Apr 22 j 09:55	0°♃		direct	1130 Apr 25 j 03:42	20°♃33'45		
	1125 Jun 01 j 16:30	0°♂			1130 Jun 06 j 12:32	0°♂		
	1125 Jul 14 j 15:07	0°♂		desc. node	1130 Jun 10 j 04:45	1°♂29'53		
asc. node	1125 Aug 17 j 15:39	21°♂44'51			1130 Aug 02 j 13:59	0°♃		
	1125 Aug 31 j 15:32	0°♂			1130 Sep 16 j 07:04	0°♂		
	1125 Nov 11 j 13:30	0°♄			1130 Oct 26 j 20:36	0°♂		
retrograde	1125 Nov 25 j 20:47	1°♄16'12			1130 Dec 04 j 14:26	0°♂		
	1125 Dec 09 j 12:57	30°♃			1131 Jan 11 j 22:58	0°♄		
min. Earth dist.	1126 Jan 02 j 18:54	22°♂16'09	0.66060 AU		1131 Feb 20 j 00:09	0°♃		
opposition	1126 Jan 05 j 01:37	21°♂21'17	4°17'57	evening set	1131 Mar 22 j 16:12	22°♃49'19		
greatest brilliancy	1126 Jan 04 j 13:21	21°♂33'35	-1.3m		1131 Apr 01 j 12:55	0°♄		
direct	1126 Feb 13 j 18:43	11°♂53'56		asc. node	1131 Apr 09 j 13:19	5°♄46'28		

	1131 May 14 j 00:29	0°♄		retrograde	1136 Aug 14 j 12:04	7°♃28'06	
				min. Earth dist.	1136 Sep 10 j 00:46	2°♃50'31	0.40911 AU
conjunction	1131 May 19 j 17:44	3°♄55'46	0°24'11	greatest brilliancy	1136 Sep 15 j 19:56	1°♃02'55	-2.6m
minimum elong	1131 May 19 j 16:30	3°♄53'39	0°24'10	opposition	1136 Sep 17 j 03:38	0°♃38'12	-4°-16'-4
max. Earth dist.	1131 Jun 16 j 21:33	22°♄56'42	2.58027 AU		1136 Sep 19 j 05:08	30°♃	
	1131 Jun 27 j 13:02	0°♃		direct	1136 Oct 17 j 21:32	24°♃56'20	
morning rise	1131 Jul 11 j 01:57	8°♃52'29			1136 Nov 16 j 05:06	0°♃	
	1131 Aug 12 j 21:59	0°♃		asc. node	1136 Nov 29 j 09:42	4°♃47'36	
	1131 Sep 29 j 23:13	0°♃			1137 Jan 18 j 17:04	0°♃	
	1131 Nov 19 j 06:06	0°♃			1137 Mar 10 j 17:31	0°♄	
	1132 Jan 14 j 09:36	0°♃			1137 Apr 28 j 21:38	0°♃	
retrograde	1132 Mar 22 j 14:39	19°♃55'37			1137 Jun 16 j 09:57	0°♃	
opposition	1132 Apr 26 j 20:09	12°♃42'20	0°00'53	evening set	1137 Jul 29 j 18:08	27°♃15'02	
greatest brilliancy	1134 May 16 j 19:28	17°♃31'19	6.4m		1137 Aug 03 j 01:50	0°♃	
desc. node	1132 Apr 27 j 03:18	12°♃36'02		max. Earth dist.	1137 Aug 27 j 08:30	15°♃35'45	2.64120 AU
min. Earth dist.	1132 May 05 j 04:38	9°♃46'27	0.51087 AU				
direct	1132 Jun 04 j 13:44	3°♃51'41		conjunction	1137 Sep 13 j 10:25	26°♃43'50	0°49'49
	1132 Aug 16 j 01:03	0°♃		minimum elong	1137 Sep 13 j 11:36	26°♃45'46	0°49'49
	1132 Sep 30 j 09:45	0°♃			1137 Sep 18 j 09:43	0°♃	
	1132 Nov 10 j 03:50	0°♃		morning rise	1137 Oct 29 j 00:42	27°♃14'36	
	1132 Dec 19 j 19:36	0°♃			1137 Nov 02 j 01:26	0°♃	
	1133 Jan 28 j 23:05	0°♃			1137 Dec 14 j 23:43	0°♃	
asc. node	1133 Feb 24 j 12:22	19°♃19'25		desc. node	1137 Dec 18 j 01:21	2°♃11'20	
	1133 Mar 11 j 11:44	0°♃			1138 Jan 25 j 09:28	0°♃	
	1133 Apr 23 j 19:44	0°♄			1138 Mar 06 j 16:28	0°♃	
evening set	1133 May 12 j 17:40	12°♄42'49			1138 Apr 15 j 12:59	0°♃	
	1133 Jun 07 j 22:11	0°♃			1138 May 26 j 03:02	0°♃	
					1138 Jul 08 j 17:57	0°♃	
conjunction	1133 Jul 01 j 20:45	15°♃32'44	1°01'02		1138 Sep 03 j 08:55	0°♄	
minimum elong	1133 Jul 01 j 19:38	15°♃30'56	1°01'01	retrograde	1138 Oct 05 j 07:26	6°♄24'03	
max. Earth dist.	1133 Jul 12 j 03:40	22°♃10'09	2.65474 AU	asc. node	1138 Oct 17 j 08:36	5°♄20'00	
	1133 Jul 24 j 09:02	0°♄			1138 Nov 04 j 19:55	30°♄	
morning rise	1133 Aug 17 j 08:58	15°♄17'19		min. Earth dist.	1138 Nov 05 j 13:20	29°♄43'42	0.53661 AU
	1133 Sep 09 j 14:01	0°♄		opposition	1138 Nov 12 j 19:24	26°♄57'07	1°16'12
	1133 Oct 27 j 03:19	0°♄		greatest brilliancy	1138 Nov 12 j 06:08	27°♄09'48	-1.9m
	1133 Dec 14 j 02:58	0°♄		direct	1138 Dec 18 j 03:01	19°♄05'23	
	1134 Feb 01 j 12:08	0°♄			1139 Feb 03 j 00:14	0°♄	
desc. node	1134 Mar 15 j 02:06	23°♄21'59			1139 Apr 05 j 02:52	0°♄	
	1134 Mar 28 j 04:56	0°♄			1139 May 27 j 07:03	0°♄	
retrograde	1134 May 30 j 06:01	18°♄37'21			1139 Jul 15 j 09:15	0°♄	
opposition	1134 Jun 29 j 22:00	13°♄27'39	-5°-49'-11		1139 Aug 31 j 01:25	0°♄	
greatest brilliancy	1134 Jul 01 j 02:43	13°♄07'39	-2.8m	evening set	1139 Sep 05 j 23:54	3°♄55'47	
min. Earth dist.	1134 Jul 04 j 13:39	12°♄10'18	0.38973 AU	max. Earth dist.	1139 Sep 24 j 04:38	16°♄08'35	2.55590 AU
direct	1134 Jul 31 j 18:11	7°♄44'06			1139 Oct 14 j 08:59	0°♄	
	1134 Oct 04 j 12:26	0°♄					
	1134 Nov 21 j 04:40	0°♄		conjunction	1139 Oct 24 j 04:27	6°♄51'29	0°07'12
	1135 Jan 04 j 08:44	0°♄		minimum elong	1139 Oct 24 j 04:45	6°♄52'00	0°07'11
asc. node	1135 Jan 12 j 11:29	5°♄32'29		behind sun begin	1139 Oct 23 j 09:47	6°♄18'41	
	1135 Feb 17 j 12:47	0°♄		behind sun end	1139 Oct 24 j 23:43	7°♄25'20	
	1135 Apr 03 j 16:56	0°♄		desc. node	1139 Nov 04 j 23:43	15°♄12'49	
	1135 May 20 j 00:41	0°♄			1139 Nov 25 j 11:54	0°♄	
evening set	1135 Jun 23 j 06:09	21°♄50'13		morning rise	1139 Dec 14 j 12:57	14°♄01'24	
	1135 Jul 06 j 02:32	0°♄			1140 Jan 04 j 19:45	0°♄	
max. Earth dist.	1135 Aug 04 j 19:15	18°♄52'24	2.67513 AU		1140 Feb 12 j 22:32	0°♄	
					1140 Mar 22 j 14:00	0°♄	
conjunction	1135 Aug 08 j 15:17	21°♄18'56	1°08'33		1140 Apr 30 j 15:48	0°♄	
minimum elong	1135 Aug 08 j 15:35	21°♄19'24	1°08'34		1140 Jun 10 j 06:28	0°♄	
	1135 Aug 22 j 05:59	0°♄			1140 Jul 24 j 01:40	0°♄	
morning rise	1135 Sep 22 j 02:16	19°♄48'30		asc. node	1140 Sep 03 j 08:44	24°♄41'02	
	1135 Oct 07 j 19:43	0°♄			1140 Sep 13 j 15:10	0°♄	
	1135 Nov 22 j 10:52	0°♄		retrograde	1140 Nov 12 j 04:52	17°♄37'18	
	1136 Jan 06 j 02:13	0°♄		min. Earth dist.	1140 Dec 18 j 11:05	9°♄10'25	0.63718 AU
desc. node	1136 Jan 31 j 02:28	17°♄03'39		greatest brilliancy	1140 Dec 21 j 12:08	7°♄57'20	-1.4m
	1136 Feb 18 j 22:32	0°♄		opposition	1140 Dec 22 j 06:04	7°♄39'23	3°50'52
	1136 Apr 02 j 12:00	0°♄			1141 Jan 14 j 21:48	30°♄	
	1136 May 17 j 09:49	0°♄		direct	1141 Jan 30 j 00:21	28°♄31'19	
	1136 Jul 11 j 06:45	0°♄			1141 Feb 15 j 01:07	0°♄	

	1141 May 02 j 00:10	0°♈		behind sun end	1146 Apr 30 j 03:24	15°♄14'46	
	1141 Jun 24 j 02:43	0°♍			1146 May 21 j 04:27	0°♈	
	1141 Aug 11 j 01:32	0°♌		max. Earth dist.	1146 Jun 04 j 13:28	9°♈52'20	2.53712 AU
desc. node	1141 Sep 21 j 22:30	28°♌09'11		morning rise	1146 Jun 24 j 04:58	23°♈06'52	
	1141 Sep 24 j 14:16	0°♍			1146 Jul 04 j 14:05	0°♄	
evening set	1141 Oct 19 j 12:39	17°♍40'51			1146 Aug 20 j 02:02	0°♈	
max. Earth dist.	1141 Nov 04 j 14:43	29°♍24'42	2.43175 AU		1146 Oct 07 j 20:04	0°♍	
	1141 Nov 05 j 09:52	0°♎			1146 Nov 29 j 10:21	0°♌	
					1147 Feb 08 j 12:10	0°♍	
conjunction	1141 Dec 14 j 08:36	29°♎21'14	0°-47'-46	retrograde	1147 Mar 03 j 14:03	2°♍55'55	
minimum elong	1141 Dec 14 j 06:18	29°♎16'48	0°47'45		1147 Mar 25 j 05:01	30°♈	
	1141 Dec 15 j 04:47	0°♏		opposition	1147 Apr 09 j 05:18	25°♌03'29	1°35'20
	1142 Jan 22 j 17:43	0°♎		greatest brilliancy	1147 Apr 09 j 21:44	24°♌48'19	-1.8m
morning rise	1142 Feb 17 j 02:52	19°♎58'14		min. Earth dist.	1147 Apr 16 j 16:33	22°♌18'32	0.56013 AU
	1142 Mar 01 j 21:08	0°♏		desc. node	1147 May 14 j 19:36	15°♌43'03	
	1142 Apr 09 j 12:23	0°♐		direct	1147 May 19 j 07:34	15°♌34'56	
	1142 May 19 j 12:31	0°♑			1147 Jul 10 j 12:26	0°♍	
	1142 Jun 30 j 18:38	0°♈			1147 Aug 30 j 16:33	0°♎	
asc. node	1142 Jul 22 j 07:40	14°♈29'52			1147 Oct 12 j 01:02	0°♏	
	1142 Aug 15 j 11:04	0°♐			1147 Nov 20 j 15:17	0°♎	
	1142 Oct 06 j 21:04	0°♈			1147 Dec 29 j 13:56	0°♏	
retrograde	1142 Dec 16 j 21:29	22°♈07'09			1148 Feb 07 j 03:40	0°♐	
opposition	1143 Jan 25 j 23:18	12°♈25'49	4°33'49	asc. node	1148 Mar 13 j 04:19	25°♐41'28	
greatest brilliancy	1143 Jan 25 j 22:21	12°♈26'45	-1.2m		1148 Mar 19 j 04:24	0°♑	
min. Earth dist.	1143 Jan 26 j 01:12	12°♈23'55	0.67681 AU	evening set	1148 Apr 24 j 04:36	25°♑15'52	
direct	1143 Mar 07 j 18:11	2°♈37'06			1148 May 01 j 02:18	0°♈	
	1143 May 30 j 02:55	0°♍			1148 Jun 14 j 21:37	0°♄	
	1143 Jul 21 j 04:59	0°♌					
desc. node	1143 Aug 09 j 21:30	12°♌33'27		conjunction	1148 Jun 15 j 20:20	0°♄37'19	0°50'24
	1143 Sep 04 j 21:57	0°♍		minimum elong	1148 Jun 15 j 18:51	0°♄34'53	0°50'23
	1143 Oct 16 j 22:52	0°♎		max. Earth dist.	1148 Jul 02 j 14:38	11°♄33'56	2.63198 AU
	1143 Nov 25 j 14:33	0°♏			1148 Jul 31 j 05:48	0°♈	
evening set	1143 Dec 17 j 16:36	17°♏12'57		morning rise	1148 Aug 03 j 02:11	1°♈49'09	
	1144 Jan 02 j 22:10	0°♎			1148 Sep 16 j 15:42	0°♍	
	1144 Feb 09 j 21:37	0°♏			1148 Nov 03 j 22:52	0°♌	
					1148 Dec 23 j 18:53	0°♍	
conjunction	1144 Feb 22 j 19:23	10°♏07'23	0°-57'-44		1149 Feb 16 j 08:52	0°♎	
minimum elong	1144 Feb 22 j 22:05	10°♏12'40	0°57'44	desc. node	1149 Mar 31 j 18:45	17°♎55'19	
	1144 Mar 19 j 11:23	0°♐		retrograde	1149 Apr 30 j 03:24	22°♎36'29	
max. Earth dist.	1144 Apr 12 j 19:57	18°♐26'11	2.40441 AU	opposition	1149 Jun 01 j 10:43	16°♎40'16	-3°-26'-12
	1144 Apr 28 j 10:54	0°♑		greatest brilliancy	1149 Jun 02 j 18:40	16°♎15'22	-2.5m
morning rise	1144 May 01 j 07:01	2°♑04'41		min. Earth dist.	1149 Jun 09 j 03:03	14°♎17'14	0.43023 AU
asc. node	1144 Jun 08 j 06:03	29°♑09'28		direct	1149 Jul 06 j 12:56	9°♎32'54	
	1144 Jun 09 j 11:08	0°♈			1149 Sep 05 j 12:39	0°♏	
	1144 Jul 23 j 23:37	0°♐			1149 Oct 22 j 09:22	0°♎	
	1144 Sep 09 j 15:42	0°♈			1149 Dec 03 j 15:48	0°♏	
	1144 Nov 01 j 22:58	0°♍			1150 Jan 14 j 10:57	0°♐	
retrograde	1145 Jan 20 j 13:19	25°♍35'41		asc. node	1150 Jan 29 j 02:33	10°♐22'59	
opposition	1145 Feb 28 j 13:01	16°♍34'42	3°54'26		1150 Feb 26 j 04:58	0°♑	
greatest brilliancy	1145 Mar 01 j 06:00	16°♍18'07	-1.3m		1150 Apr 11 j 10:48	0°♈	
min. Earth dist.	1145 Mar 04 j 11:50	15°♍02'09	0.65031 AU		1150 May 27 j 04:20	0°♄	
direct	1145 Apr 10 j 22:35	6°♍33'16		evening set	1150 Jun 07 j 21:59	7°♄34'37	
	1145 Jun 23 j 06:22	0°♌			1150 Jul 12 j 22:27	0°♈	
desc. node	1145 Jun 26 j 20:03	1°♌53'41					
	1145 Aug 12 j 16:01	0°♍		conjunction	1150 Jul 25 j 08:19	7°♌54'29	1°08'54
	1145 Sep 25 j 01:15	0°♎		minimum elong	1150 Jul 25 j 08:04	7°♌54'05	1°08'53
	1145 Nov 04 j 03:34	0°♏		max. Earth dist.	1150 Jul 26 j 17:59	8°♌48'06	2.67375 AU
	1145 Dec 12 j 15:45	0°♎			1150 Aug 29 j 00:52	0°♍	
	1146 Jan 19 j 19:30	0°♏		morning rise	1150 Sep 08 j 05:24	6°♍30'01	
evening set	1146 Feb 25 j 19:13	28°♏36'00			1150 Oct 14 j 21:15	0°♌	
	1146 Feb 27 j 15:22	0°♐			1150 Nov 30 j 04:43	0°♍	
	1146 Apr 08 j 22:21	0°♑			1151 Jan 15 j 01:43	0°♎	
asc. node	1146 Apr 26 j 05:43	12°♑28'11		desc. node	1151 Feb 16 j 17:50	21°♑23'06	
					1151 Mar 01 j 23:37	0°♏	
conjunction	1146 Apr 29 j 03:01	14°♑31'30	0°01'51		1151 Apr 18 j 08:35	0°♎	
minimum elong	1146 Apr 29 j 02:51	14°♑31'13	0°01'51		1151 Jun 14 j 17:28	0°♏	
behind sun begin	1146 Apr 28 j 02:19	13°♑47'36		retrograde	1151 Jul 19 j 02:16	7°♏11'51	

min. Earth dist.	1151 Aug 15 j 18:40	2°♁41'38	0.37817 AU		1156 Oct 01 j 16:59	0°♁	
greatest brilliancy	1151 Aug 18 j 10:52	1°♁57'29	-2.8m	desc. node	1156 Oct 08 j 14:11	4°♁48'56	
opposition	1151 Aug 19 j 06:26	1°♁44'01	-6°-26'00	max. Earth dist.	1156 Oct 15 j 16:52	9°♁50'19	2.48308 AU
	1151 Aug 25 j 18:43	30°♁			1156 Nov 12 j 14:48	0°♁	
direct	1151 Sep 17 j 19:06	26°♁45'06					
	1151 Oct 10 j 15:29	0°♁		conjunction	1156 Nov 21 j 23:54	6°♁55'45	0°-27'-1
	1151 Dec 13 j 23:24	0°♁		minimum elong	1156 Nov 21 j 22:30	6°♁53'10	0°27'02
asc. node	1151 Dec 17 j 02:09	1°♁48'54			1156 Dec 22 j 14:01	0°♁	
	1152 Feb 01 j 06:55	0°♁		morning rise	1157 Jan 19 j 16:12	21°♁41'57	
	1152 Mar 19 j 23:11	0°♁			1157 Jan 30 j 07:30	0°♁	
	1152 May 06 j 16:18	0°♁			1157 Mar 09 j 14:29	0°♁	
	1152 Jun 23 j 11:42	0°♁			1157 Apr 17 j 08:06	0°♁	
evening set	1152 Jul 15 j 08:50	13°♁47'41			1157 May 27 j 10:55	0°♁	
	1152 Aug 09 j 21:02	0°♁			1157 Jul 09 j 00:30	0°♁	
max. Earth dist.	1152 Aug 18 j 01:24	5°♁14'10	2.66078 AU	asc. node	1157 Aug 07 j 23:43	19°♁38'22	
					1157 Aug 24 j 20:08	0°♁	
conjunction	1152 Aug 29 j 23:29	12°♁54'19	1°00'03		1157 Oct 22 j 12:52	0°♁	
minimum elong	1152 Aug 30 j 00:28	12°♁55'53	1°00'03	retrograde	1157 Dec 03 j 13:12	9°♁16'15	
	1152 Sep 25 j 05:52	0°♁		min. Earth dist.	1158 Jan 11 j 07:45	29°♁59'47	0.66915 AU
morning rise	1152 Oct 13 j 16:57	12°♁12'02			1158 Jan 11 j 07:33	30°♁	
	1152 Nov 09 j 04:41	0°♁		opposition	1158 Jan 12 j 18:26	29°♁25'04	4°27'30
	1152 Dec 22 j 15:37	0°♁		greatest brilliancy	1158 Jan 12 j 09:58	29°♁33'33	-1.3m
desc. node	1153 Jan 03 j 17:00	8°♁30'08		direct	1158 Feb 21 j 22:17	19°♁48'55	
	1153 Feb 02 j 18:14	0°♁			1158 Apr 09 j 01:10	0°♁	
	1153 Mar 15 j 21:27	0°♁			1158 Jun 09 j 13:10	0°♁	
	1153 Apr 25 j 18:40	0°♁			1158 Jul 29 j 09:36	0°♁	
	1153 Jun 07 j 00:44	0°♁		desc. node	1158 Aug 26 j 13:31	18°♁26'38	
	1153 Jul 25 j 15:05	0°♁			1158 Sep 12 j 11:51	0°♁	
retrograde	1153 Sep 17 j 08:33	16°♁31'45			1158 Oct 24 j 09:21	0°♁	
min. Earth dist.	1153 Oct 16 j 10:51	10°♁41'41	0.48544 AU	evening set	1158 Nov 22 j 08:51	21°♁47'19	
opposition	1153 Oct 24 j 11:42	7°♁46'21	0°-30'-43		1158 Dec 03 j 01:23	0°♁	
greatest brilliancy	1153 Oct 24 j 05:58	7°♁51'34	-2.2m		1159 Jan 10 j 10:20	0°♁	
asc. node	1153 Nov 03 j 01:47	4°♁30'45		max. Earth dist.	1159 Jan 23 j 04:40	10°♁04'46	2.37125 AU
direct	1153 Nov 27 j 01:41	0°♁39'20					
	1154 Feb 20 j 04:17	0°♁		conjunction	1159 Jan 24 j 17:22	11°♁17'16	-1°-4'-56
	1154 Apr 14 j 19:43	0°♁		minimum elong	1159 Jan 24 j 17:16	11°♁17'04	1°04'58
	1154 Jun 04 j 02:09	0°♁			1159 Feb 17 j 10:35	0°♁	
	1154 Jul 22 j 11:27	0°♁			1159 Mar 27 j 23:56	0°♁	
evening set	1154 Aug 21 j 17:27	19°♁22'26		morning rise	1159 Apr 05 j 04:40	6°♁15'43	
	1154 Sep 06 j 23:04	0°♁			1159 May 06 j 22:19	0°♁	
max. Earth dist.	1154 Sep 12 j 12:14	3°♁40'23	2.59511 AU	asc. node	1159 Jun 17 j 22:30	0°♁	
					1159 Jun 25 j 22:52	5°♁31'35	
conjunction	1154 Oct 07 j 11:38	20°♁28'04	0°26'16		1159 Aug 01 j 16:35	0°♁	
minimum elong	1154 Oct 07 j 12:34	20°♁29'39	0°26'16		1159 Sep 19 j 09:29	0°♁	
	1154 Oct 21 j 08:49	0°♁			1159 Nov 16 j 19:29	0°♁	
desc. node	1154 Nov 21 j 15:49	22°♁01'01		retrograde	1160 Jan 07 j 05:56	12°♁35'06	
morning rise	1154 Nov 24 j 20:06	24°♁17'40		opposition	1160 Feb 15 j 19:26	3°♁15'30	4°19'27
	1154 Dec 02 j 18:07	0°♁		greatest brilliancy	1160 Feb 16 j 06:10	3°♁04'55	-1.2m
	1155 Jan 12 j 10:15	0°♁		min. Earth dist.	1160 Feb 18 j 06:06	2°♁17'37	0.66876 AU
	1155 Feb 20 j 21:41	0°♁			1160 Feb 24 j 04:51	30°♁	
	1155 Mar 31 j 21:13	0°♁		direct	1160 Mar 28 j 04:06	23°♁15'12	
	1155 May 10 j 07:32	0°♁			1160 May 03 j 05:38	0°♁	
	1155 Jun 20 j 12:42	0°♁			1160 Jul 04 j 21:09	0°♁	
	1155 Aug 05 j 01:00	0°♁		desc. node	1160 Jul 13 j 13:05	5°♁06'37	
asc. node	1155 Sep 21 j 00:17	24°♁17'49			1160 Aug 21 j 14:21	0°♁	
	1155 Oct 08 j 04:12	0°♁			1160 Oct 03 j 06:04	0°♁	
retrograde	1155 Oct 29 j 21:51	2°♁59'01			1160 Nov 12 j 02:00	0°♁	
	1155 Nov 19 j 12:13	30°♁			1160 Dec 20 j 10:55	0°♁	
min. Earth dist.	1155 Dec 03 j 08:18	25°♁09'44	0.60450 AU	greatest brilliancy	1160 Dec 21 j 09:39	0°♁44'50	1.2m
opposition	1155 Dec 08 j 14:26	23°♁04'40	3°07'34		1161 Jan 27 j 11:41	0°♁	
greatest brilliancy	1155 Dec 07 j 17:42	23°♁25'13	-1.6m	evening set	1161 Jan 29 j 10:27	1°♁31'48	
direct	1156 Jan 15 j 04:54	14°♁21'02			1161 Mar 07 j 03:50	0°♁	
	1156 Mar 14 j 04:25	0°♁					
	1156 May 12 j 00:11	0°♁		conjunction	1161 Apr 05 j 16:11	22°♁12'13	0°-23'-24
	1156 Jul 02 j 00:00	0°♁		minimum elong	1161 Apr 05 j 17:57	22°♁15'29	0°23'23
	1156 Aug 18 j 07:32	0°♁			1161 Apr 16 j 06:35	0°♁	
evening set	1156 Sep 30 j 23:17	29°♁29'12		asc. node	1161 May 12 j 20:45	19°♁07'43	

max. Earth dist.	1161 May 20 j 14:29	24°♄34'47	2.48758 AU	opposition	1166 Jul 17 j 17:11	0°♁42'51	-6°-41'-29
	1161 May 28 j 08:53	0°♂		greatest brilliancy	1166 Jul 18 j 08:00	0°♁33'00	-2.8m
morning rise	1161 Jun 05 j 10:54	5°♂35'13		min. Earth dist.	1166 Jul 19 j 17:24	0°♁10'50	0.37684 AU
	1161 Jul 11 j 17:22	0°♁			1166 Jul 20 j 09:46	30°♁	
	1161 Aug 27 j 11:31	0°♁		direct	1166 Aug 17 j 03:13	25°♁33'37	
	1161 Oct 16 j 07:25	0°♁			1166 Sep 12 j 14:33	0°♁	
	1161 Dec 12 j 04:55	0°♁			1166 Nov 11 j 11:08	0°♁	
retrograde	1162 Feb 13 j 23:20	17°♁43'49			1166 Dec 28 j 05:14	0°♁	
opposition	1162 Mar 23 j 17:24	9°♁19'50	2°44'10	asc. node	1167 Jan 02 j 18:07	3°♁39'14	
greatest brilliancy	1162 Mar 24 j 14:24	8°♁59'51	-1.5m		1167 Feb 11 j 14:02	0°♁	
min. Earth dist.	1162 Mar 29 j 22:03	6°♁58'49	0.60275 AU		1167 Mar 29 j 10:24	0°♁	
	1162 Apr 24 j 22:30	30°♁			1167 May 15 j 03:47	0°♁	
direct	1162 May 03 j 15:39	29°♁29'59		evening set	1167 Jul 01 j 18:53	0°♁12'59	
	1162 May 12 j 14:17	0°♁			1167 Jul 01 j 10:41	0°♁	
desc. node	1162 May 31 j 11:30	3°♁58'12		max. Earth dist.	1167 Aug 10 j 01:47	25°♁09'35	2.67225 AU
	1162 Jul 26 j 04:25	0°♁					
	1162 Sep 10 j 08:29	0°♁		conjunction	1167 Aug 16 j 18:40	29°♁26'21	1°06'32
	1162 Oct 21 j 09:41	0°♁		minimum elong	1167 Aug 16 j 19:16	29°♁27'17	1°06'31
	1162 Nov 29 j 09:15	0°♁			1167 Aug 17 j 15:44	0°♁	
	1163 Jan 06 j 21:29	0°♁		morning rise	1167 Sep 30 j 04:56	28°♁05'09	
	1163 Feb 15 j 01:35	0°♁			1167 Oct 03 j 03:23	0°♁	
	1163 Mar 27 j 17:08	0°♁			1167 Nov 17 j 12:09	0°♁	
asc. node	1163 Mar 30 j 20:21	2°♁15'29			1167 Dec 31 j 16:14	0°♁	
evening set	1163 Apr 04 j 12:22	5°♁36'22		desc. node	1168 Jan 21 j 08:30	14°♁18'32	
	1163 May 09 j 06:53	0°♁			1168 Feb 12 j 18:56	0°♁	
					1168 Mar 26 j 05:53	0°♁	
conjunction	1163 May 30 j 11:11	14°♁24'54	0°35'09		1168 May 08 j 01:30	0°♁	
minimum elong	1163 May 30 j 09:40	14°♁22'22	0°35'08		1168 Jun 23 j 15:19	0°♁	
	1163 Jun 22 j 20:36	0°♁		retrograde	1168 Aug 27 j 18:19	23°♁02'47	
max. Earth dist.	1163 Jun 23 j 10:30	0°♁22'53	2.60087 AU	min. Earth dist.	1168 Sep 23 j 22:10	18°♁02'50	0.43403 AU
morning rise	1163 Jul 20 j 03:09	17°♁47'17		opposition	1168 Oct 01 j 19:42	15°♁25'25	-2°-49'-6
	1163 Aug 08 j 04:02	0°♁		greatest brilliancy	1168 Sep 30 j 17:44	15°♁47'09	-2.5m
	1163 Sep 24 j 22:05	0°♁		direct	1168 Nov 02 j 14:08	9°♁12'14	
	1163 Nov 13 j 07:19	0°♁		asc. node	1168 Nov 19 j 17:06	11°♁02'17	
	1164 Jan 05 j 06:20	0°♁			1169 Jan 08 j 13:23	0°♁	
	1164 Mar 21 j 15:20	0°♁			1169 Mar 04 j 03:35	0°♁	
retrograde	1164 Apr 04 j 09:52	1°♁05'55			1169 Apr 23 j 12:00	0°♁	
desc. node	1164 Apr 17 j 09:58	0°♁02'38			1169 Jun 11 j 12:50	0°♁	
	1164 Apr 17 j 16:21	30°♁			1169 Jul 29 j 10:19	0°♁	
opposition	1164 May 08 j 16:03	24°♁18'23	-1°-6'-35	evening set	1169 Aug 07 j 00:54	5°♁29'15	
greatest brilliancy	1164 May 09 j 05:10	24°♁07'16	-2.2m	max. Earth dist.	1169 Sep 02 j 01:14	22°♁17'17	2.62674 AU
min. Earth dist.	1164 May 17 j 04:22	21°♁25'27	0.48174 AU		1169 Sep 13 j 19:26	0°♁	
direct	1164 Jun 15 j 08:48	15°♁58'03					
	1164 Aug 03 j 23:44	0°♁		conjunction	1169 Sep 21 j 23:07	5°♁23'46	0°42'10
	1164 Sep 22 j 17:07	0°♁		minimum elong	1169 Sep 22 j 00:18	5°♁25'43	0°42'10
	1164 Nov 03 j 16:26	0°♁			1169 Oct 28 j 08:56	0°♁	
	1164 Dec 13 j 23:29	0°♁		morning rise	1169 Nov 07 j 08:04	6°♁53'02	
	1165 Jan 23 j 13:11	0°♁		desc. node	1169 Dec 08 j 07:23	28°♁42'54	
asc. node	1165 Feb 14 j 20:04	16°♁07'01			1169 Dec 10 j 02:28	0°♁	
	1165 Mar 06 j 09:41	0°♁			1170 Jan 20 j 05:27	0°♁	
	1165 Apr 18 j 23:27	0°♁			1170 Mar 01 j 04:41	0°♁	
evening set	1165 May 22 j 14:10	22°♁22'20			1170 Apr 09 j 16:20	0°♁	
	1165 Jun 03 j 05:50	0°♁			1170 May 19 j 17:14	0°♁	
					1170 Jul 01 j 02:19	0°♁	
conjunction	1165 Jul 10 j 14:36	24°♁08'37	1°05'09		1170 Aug 19 j 17:59	0°♁	
minimum elong	1165 Jul 10 j 13:47	24°♁07'19	1°05'08	asc. node	1170 Oct 07 j 16:57	16°♁32'18	
max. Earth dist.	1165 Jul 17 j 14:53	28°♁38'02	2.66372 AU	retrograde	1170 Oct 14 j 15:03	16°♁52'24	
	1165 Jul 19 j 18:10	0°♁		min. Earth dist.	1170 Nov 16 j 01:06	9°♁46'25	0.56284 AU
morning rise	1165 Aug 25 j 09:42	23°♁20'14		opposition	1170 Nov 22 j 15:54	7°♁11'57	2°04'04
	1165 Sep 04 j 21:29	0°♁		greatest brilliancy	1170 Nov 21 j 21:27	7°♁29'55	-1.8m
	1165 Oct 22 j 03:36	0°♁			1170 Dec 16 j 13:20	30°♁	
	1165 Dec 08 j 10:00	0°♁		direct	1170 Dec 28 j 21:00	28°♁59'38	
	1166 Jan 25 j 04:29	0°♁			1171 Jan 10 j 19:25	0°♁	
desc. node	1166 Mar 05 j 09:31	23°♁47'22			1171 Mar 28 j 22:52	0°♁	
	1166 Mar 16 j 02:03	0°♁			1171 May 21 j 19:39	0°♁	
	1166 May 17 j 03:57	0°♁			1171 Jul 10 j 12:02	0°♁	
retrograde	1166 Jun 17 j 15:49	5°♁40'24			1171 Aug 26 j 09:36	0°♁	

evening set	1171 Sep 15 j 01:20	13°♁05'26			1176 Jun 04 j 15:21	0°♁	
max. Earth dist.	1171 Oct 01 j 12:26	24°♁18'10	2.53141 AU		1176 Jul 19 j 00:23	0°♁	
	1171 Oct 09 j 18:05	0°♁			1176 Sep 04 j 05:15	0°♁	
desc. node	1171 Oct 26 j 06:47	11°♁36'32			1176 Oct 25 j 19:16	0°♁	
					1177 Jan 02 j 19:11	0°♁	
conjunction	1171 Nov 03 j 08:48	17°♁22'27	0°-4'-59	retrograde	1177 Jan 29 j 01:55	3°♁44'06	
minimum elong	1171 Nov 03 j 08:32	17°♁22'00	0°05'00		1177 Feb 22 j 08:49	30°♁	
behind sun begin	1171 Nov 02 j 11:48	16°♁44'52		opposition	1177 Mar 08 j 16:54	24°♁54'52	3°33'10
behind sun end	1171 Nov 04 j 05:17	17°♁59'09		greatest brilliancy	1177 Mar 09 j 12:18	24°♁36'04	-1.4m
	1171 Nov 20 j 19:27	0°♁		min. Earth dist.	1177 Mar 13 j 11:39	23°♁03'52	0.63607 AU
morning rise	1171 Dec 26 j 23:04	26°♁55'49		direct	1177 Apr 19 j 01:06	14°♁55'14	
	1171 Dec 31 j 00:07	0°♁			1177 Jun 13 j 20:19	0°♁	
	1172 Feb 07 j 23:11	0°♁		desc. node	1177 Jun 17 j 03:09	1°♁32'38	
	1172 Mar 17 j 11:00	0°♁			1177 Aug 06 j 10:20	0°♁	
	1172 Apr 25 j 08:43	0°♁			1177 Sep 19 j 13:46	0°♁	
	1172 Jun 04 j 17:10	0°♁			1177 Oct 29 j 22:47	0°♁	
	1172 Jul 17 j 21:10	0°♁			1177 Dec 07 j 14:11	0°♁	
asc. node	1172 Aug 24 j 15:04	23°♁37'05			1178 Jan 14 j 20:13	0°♁	
	1172 Sep 04 j 21:27	0°♁			1178 Feb 22 j 18:05	0°♁	
retrograde	1172 Nov 20 j 02:11	26°♁00'17		evening set	1178 Mar 12 j 05:01	13°♁07'50	
min. Earth dist.	1172 Dec 27 j 07:36	17°♁14'27	0.65147 AU		1178 Apr 04 j 03:04	0°♁	
opposition	1172 Dec 30 j 06:27	16°♁03'30	4°08'31	asc. node	1178 Apr 16 j 12:42	8°♁56'36	
greatest brilliancy	1172 Dec 29 j 15:25	16°♁18'33	-1.3m				
direct	1173 Feb 07 j 14:19	6°♁44'06		conjunction	1178 May 11 j 03:25	26°♁18'58	0°15'11
	1173 Apr 24 j 09:36	0°♁		minimum elong	1178 May 11 j 02:33	26°♁17'26	0°15'10
	1173 Jun 18 j 13:29	0°♁		behind sun begin	1178 May 10 j 19:46	26°♁05'39	
	1173 Aug 06 j 02:44	0°♁		behind sun end	1178 May 11 j 09:19	26°♁29'13	
desc. node	1173 Sep 12 j 05:38	24°♁44'21			1178 May 16 j 10:52	0°♁	
	1173 Sep 19 j 20:24	0°♁		max. Earth dist.	1178 Jun 11 j 21:22	18°♁01'31	2.56190 AU
evening set	1173 Oct 30 j 22:49	29°♁26'02			1178 Jun 29 j 20:40	0°♁	
	1173 Oct 31 j 17:15	0°♁		morning rise	1178 Jul 04 j 00:50	2°♁45'03	
max. Earth dist.	1173 Nov 20 j 10:55	14°♁43'54	2.40461 AU		1178 Aug 15 j 05:28	0°♁	
	1173 Dec 10 j 11:26	0°♁			1178 Oct 02 j 12:10	0°♁	
					1178 Nov 22 j 13:50	0°♁	
conjunction	1173 Dec 28 j 08:07	13°♁50'32	0°-57'-7		1179 Jan 21 j 05:43	0°♁	
minimum elong	1173 Dec 28 j 05:56	13°♁46'16	0°57'06	retrograde	1179 Mar 14 j 13:51	12°♁47'08	
	1174 Jan 17 j 22:53	0°♁		opposition	1179 Apr 19 j 11:37	5°♁15'13	0°44'20
	1174 Feb 25 j 00:45	0°♁		greatest brilliancy	1179 Apr 19 j 20:35	5°♁07'09	-1.9m
morning rise	1174 Mar 06 j 03:38	7°♁09'19		min. Earth dist.	1179 Apr 27 j 12:43	2°♁21'45	0.53370 AU
	1174 Apr 04 j 14:23	0°♁			1179 May 04 j 15:56	30°♁	
	1174 May 14 j 12:29	0°♁		desc. node	1179 May 05 j 01:57	29°♁52'24	
	1174 Jun 25 j 14:29	0°♁		direct	1179 May 28 j 22:39	26°♁04'57	
asc. node	1174 Jul 12 j 13:50	11°♁33'28			1179 Jun 23 j 02:07	0°♁	
	1174 Aug 09 j 18:59	0°♁			1179 Aug 22 j 21:04	0°♁	
	1174 Sep 29 j 07:07	0°♁			1179 Oct 05 j 16:32	0°♁	
retrograde	1174 Dec 24 j 14:16	29°♁53'30			1179 Nov 14 j 20:38	0°♁	
opposition	1175 Feb 02 j 13:10	20°♁19'00	4°31'57		1179 Dec 24 j 03:37	0°♁	
greatest brilliancy	1175 Feb 02 j 16:32	20°♁15'39	-1.2m	asc. node	1180 Feb 01 j 23:29	0°♁	
min. Earth dist.	1175 Feb 03 j 11:32	19°♁56'45	0.67685 AU		1180 Mar 03 j 11:19	22°♁18'10	
direct	1175 Mar 15 j 14:42	10°♁24'56			1180 Mar 14 j 05:16	0°♁	
	1175 May 22 j 00:53	0°♁			1180 Apr 26 j 07:20	0°♁	
	1175 Jul 15 j 11:15	0°♁		evening set	1180 May 04 j 23:23	5°♁52'56	
desc. node	1175 Jul 31 j 04:13	9°♁47'40			1180 Jun 10 j 05:23	0°♁	
	1175 Aug 30 j 18:53	0°♁					
	1175 Oct 12 j 01:01	0°♁		conjunction	1180 Jun 25 j 03:30	9°♁44'25	0°57'07
	1175 Nov 20 j 18:21	0°♁		minimum elong	1180 Jun 25 j 02:12	9°♁42'18	0°57'06
	1175 Dec 29 j 02:26	0°♁		max. Earth dist.	1180 Jul 08 j 07:13	18°♁15'19	2.64561 AU
evening set	1176 Jan 02 j 02:07	3°♁08'56			1180 Jul 26 j 14:09	0°♁	
	1176 Feb 05 j 02:09	0°♁		morning rise	1180 Aug 11 j 08:34	10°♁03'14	
					1180 Sep 11 j 20:41	0°♁	
conjunction	1176 Mar 09 j 21:50	26°♁20'40	0°-47'-28		1180 Oct 29 j 16:45	0°♁	
minimum elong	1176 Mar 10 j 00:58	26°♁26'42	0°47'27		1180 Dec 17 j 08:53	0°♁	
	1176 Mar 14 j 16:06	0°♁			1181 Feb 06 j 11:05	0°♁	
	1176 Apr 23 j 15:43	0°♁		desc. node	1181 Mar 22 j 00:31	22°♁20'31	
max. Earth dist.	1176 Apr 30 j 04:12	4°♁45'44	2.43349 AU		1181 Apr 10 j 00:24	0°♁	
morning rise	1176 May 14 j 21:56	15°♁23'25		retrograde	1181 May 16 j 12:39	7°♁07'26	
asc. node	1176 May 29 j 13:56	25°♁46'07		opposition	1181 Jun 16 j 21:26	1°♁38'57	-4°-50'-39

greatest brilliancy	1181 Jun 18 j 07:22	1°☾14'03	-2.6m	conjunction	1186 Oct 16 j 19:26	0°♁02'32	0°15'37
	1181 Jun 22 j 12:57	30°♁		minimum elong	1186 Oct 16 j 20:03	0°♁03'37	0°15'37
min. Earth dist.	1181 Jun 23 j 04:57	29°♁48'33	0.40572 AU	behind sun begin	1186 Oct 16 j 14:38	29°♁54'14	
direct	1181 Jul 20 j 04:13	25°♁18'56		behind sun end	1186 Oct 17 j 01:28	0°♁13'00	
	1181 Aug 16 j 01:22	0°☾			1186 Oct 16 j 17:58	0°♁	
	1181 Oct 12 j 21:16	0°♁		desc. node	1186 Nov 11 j 22:23	18°♁24'42	
	1181 Nov 26 j 09:54	0°♁			1186 Nov 28 j 00:45	0°♁	
	1182 Jan 08 j 07:29	0°♁		morning rise	1186 Dec 05 j 16:13	5°♁34'18	
asc. node	1182 Jan 19 j 10:35	7°♁45'26			1187 Jan 07 j 13:01	0°☾	
	1182 Feb 20 j 17:25	0°♁			1187 Feb 15 j 19:54	0°♁	
	1182 Apr 06 j 09:47	0°♁			1187 Mar 26 j 14:46	0°♁	
	1182 May 22 j 09:55	0°☾			1187 May 04 j 19:15	0°♁	
evening set	1182 Jun 16 j 18:42	16°☾16'08			1187 Jun 14 j 13:46	0°♁	
	1182 Jul 08 j 07:38	0°♁			1187 Jul 28 j 20:36	0°♁	
max. Earth dist.	1182 Aug 01 j 00:22	15°♁04'30	2.67559 AU	asc. node	1187 Sep 11 j 07:58	25°♁26'07	
					1187 Sep 21 j 02:34	0°☾	
conjunction	1182 Aug 02 j 13:25	16°♁03'27	1°09'10	retrograde	1187 Nov 07 j 04:45	11°☾57'28	
minimum elong	1182 Aug 02 j 13:30	16°♁03'35	1°09'10	min. Earth dist.	1187 Dec 12 j 16:04	3°☾46'53	0.62368 AU
	1182 Aug 24 j 10:36	0°♁		greatest brilliancy	1187 Dec 16 j 07:15	2°☾20'00	-1.5m
morning rise	1182 Sep 16 j 03:37	14°♁32'08		opposition	1187 Dec 17 j 02:58	2°☾00'20	3°35'07
	1182 Oct 10 j 03:20	0°♁			1187 Dec 22 j 05:45	30°♁	
	1182 Nov 25 j 01:39	0°♁		direct	1188 Jan 24 j 09:49	23°♁02'23	
	1183 Jan 09 j 05:16	0°♁			1188 Mar 01 j 07:29	0°☾	
desc. node	1183 Feb 07 j 01:03	19°♁21'16			1188 May 05 j 14:43	0°♁	
	1183 Feb 22 j 20:23	0°☾			1188 Jun 26 j 18:57	0°♁	
	1183 Apr 08 j 16:38	0°♁			1188 Aug 13 j 12:15	0°♁	
	1183 May 26 j 10:00	0°♁			1188 Sep 27 j 00:49	0°♁	
retrograde	1183 Aug 04 j 05:54	25°♁07'56		desc. node	1188 Sep 28 j 21:08	1°♁17'11	
min. Earth dist.	1183 Aug 30 j 19:23	20°♁40'34	0.39233 AU	evening set	1188 Oct 11 j 06:21	9°♁59'54	
greatest brilliancy	1183 Sep 04 j 10:13	19°♁19'49	-2.8m	max. Earth dist.	1188 Oct 25 j 23:44	20°♁33'06	2.45475 AU
opposition	1183 Sep 05 j 16:20	18°♁57'44	-5°-20'-5		1188 Nov 07 j 22:33	0°♁	
direct	1183 Oct 05 j 16:41	13°♁39'00					
	1183 Dec 01 j 09:53	0°♁		conjunction	1188 Dec 04 j 05:54	19°♁38'33	0°-39'-17
asc. node	1183 Dec 07 j 09:04	2°♁56'10		minimum elong	1188 Dec 04 j 03:53	19°♁34'45	0°39'17
	1184 Jan 24 j 19:29	0°♁			1188 Dec 17 j 20:08	0°☾	
	1184 Mar 14 j 02:32	0°♁			1189 Jan 25 j 11:20	0°♁	
	1184 May 01 j 13:22	0°☾		morning rise	1189 Feb 04 j 06:23	7°♁41'04	
	1184 Jun 18 j 17:37	0°♁		greatest brilliancy	1189 Feb 16 j 14:59	17°♁23'51	1.2m
evening set	1184 Jul 23 j 14:32	21°♁56'26			1189 Mar 04 j 16:15	0°♁	
	1184 Aug 05 j 06:53	0°♁			1189 Apr 12 j 07:53	0°♁	
max. Earth dist.	1184 Aug 23 j 11:31	11°♁39'45	2.65104 AU		1189 May 22 j 07:48	0°♁	
					1189 Jul 03 j 15:04	0°♁	
conjunction	1184 Sep 07 j 04:25	21°♁11'10	0°54'33	asc. node	1189 Jul 29 j 07:11	17°♁08'01	
minimum elong	1184 Sep 07 j 05:32	21°♁12'58	0°54'32		1189 Aug 18 j 14:38	0°☾	
	1184 Sep 20 j 15:48	0°♁			1189 Oct 11 j 16:46	0°♁	
morning rise	1184 Oct 22 j 07:35	21°♁04'28		retrograde	1189 Dec 11 j 04:53	17°♁08'49	
	1184 Nov 04 j 11:27	0°♁		opposition	1190 Jan 20 j 09:13	7°♁22'46	4°32'39
	1184 Dec 17 j 15:58	0°♁		greatest brilliancy	1190 Jan 20 j 04:53	7°♁27'06	-1.2m
desc. node	1184 Dec 25 j 00:10	5°♁12'31		min. Earth dist.	1190 Jan 19 j 18:56	7°♁37'02	0.67465 AU
	1185 Jan 28 j 09:24	0°☾			1190 Feb 10 j 18:30	30°♁	
	1185 Mar 10 j 00:48	0°♁		direct	1190 Mar 01 j 22:19	27°☾39'11	
	1185 Apr 19 j 06:40	0°♁			1190 Mar 22 j 11:02	0°♁	
	1185 May 30 j 09:27	0°♁			1190 Jun 02 j 22:51	0°♁	
	1185 Jul 14 j 08:40	0°♁			1190 Jul 24 j 01:40	0°♁	
retrograde	1185 Sep 27 j 20:16	28°♁38'43		desc. node	1190 Aug 16 j 20:27	15°♁20'19	
asc. node	1185 Oct 24 j 07:48	23°♁42'10			1190 Sep 07 j 13:40	0°♁	
min. Earth dist.	1185 Oct 28 j 02:46	22°♁21'06	0.51414 AU		1190 Oct 19 j 14:27	0°♁	
opposition	1185 Nov 04 j 19:51	19°♁27'31	0°34'49		1190 Nov 28 j 07:08	0°☾	
greatest brilliancy	1185 Nov 04 j 13:01	19°♁33'55	-2.0m	evening set	1190 Dec 06 j 06:16	6°☾10'14	
direct	1185 Dec 09 j 09:34	11°♁54'38			1191 Jan 05 j 15:33	0°♁	
	1186 Feb 10 j 12:13	0°♁					
	1186 Apr 08 j 14:59	0°☾		conjunction	1191 Feb 10 j 00:22	27°♁56'28	-1°-2'-45
	1186 May 29 j 21:57	0°♁		minimum elong	1191 Feb 10 j 02:03	27°♁59'47	1°02'45
	1186 Jul 17 j 17:15	0°♁			1191 Feb 12 j 15:07	0°♁	
evening set	1186 Aug 30 j 08:35	28°♁01'59			1191 Mar 23 j 03:55	0°♁	
	1186 Sep 02 j 08:20	0°♁		max. Earth dist.	1191 Mar 24 j 11:53	1°♁01'18	2.38353 AU
max. Earth dist.	1186 Sep 19 j 00:11	11°♁04'56	2.57439 AU	morning rise	1191 Apr 20 j 22:20	21°♁45'35	

	1191 May 02 j 01:37	0°♄		direct	1196 Jun 26 j 22:07	29°♍10'45	
	1191 Jun 13 j 00:19	0°♁			1196 Jul 07 j 19:14	0°♄	
asc. node	1191 Jun 16 j 05:21	2°♁13'38			1196 Sep 13 j 11:02	0°♄	
	1191 Jul 27 j 12:59	0°♄			1196 Oct 27 j 12:39	0°♁	
	1191 Sep 13 j 12:07	0°♁			1196 Dec 07 j 17:37	0°♁	
	1191 Nov 07 j 06:50	0°♁			1197 Jan 17 j 21:15	0°♁	
retrograde	1192 Jan 15 j 08:06	20°♁28'07		asc. node	1197 Feb 05 j 01:49	13°♁02'22	
opposition	1192 Feb 23 j 15:01	11°♁18'24	4°06'15		1197 Mar 01 j 03:37	0°♄	
greatest brilliancy	1192 Feb 24 j 05:24	11°♁04'18	-1.3m		1197 Apr 14 j 00:51	0°♁	
min. Earth dist.	1192 Feb 26 j 22:08	10°♁00'50	0.65982 AU		1197 May 29 j 12:13	0°♄	
direct	1192 Apr 05 j 01:25	1°♁16'49		evening set	1197 Jun 01 j 01:36	1°♄39'39	
	1192 Jun 27 j 18:02	0°♁			1197 Jul 15 j 03:09	0°♁	
desc. node	1192 Jul 03 j 18:48	3°♁22'01					
	1192 Aug 15 j 22:37	0°♍		conjunction	1197 Jul 19 j 02:53	2°♁32'48	1°07'49
	1192 Sep 28 j 01:18	0°♄		minimum elong	1197 Jul 19 j 02:24	2°♁32'02	1°07'49
	1192 Nov 07 j 01:41	0°♄		max. Earth dist.	1197 Jul 22 j 22:16	4°♁58'33	2.67037 AU
	1192 Dec 15 j 12:39	0°♁			1197 Aug 31 j 05:41	0°♁	
	1193 Jan 22 j 14:50	0°♁		morning rise	1197 Sep 02 j 08:10	1°♁20'19	
evening set	1193 Feb 14 j 02:01	17°♁30'32			1197 Oct 17 j 06:07	0°♁	
	1193 Mar 02 j 08:14	0°♁			1197 Dec 02 j 23:12	0°♍	
	1193 Apr 11 j 12:00	0°♄		desc. node	1198 Jan 18 j 13:54	0°♄	
conjunction	1193 Apr 19 j 07:35	5°♄40'50	0°-8'-49		1198 Feb 23 j 16:26	22°♄59'28	
minimum elong	1193 Apr 19 j 08:13	5°♄41'58	0°08'49		1198 Mar 06 j 20:54	0°♄	
behind sun begin	1193 Apr 18 j 10:32	5°♄02'45		retrograde	1198 Apr 26 j 14:50	0°♁	
behind sun end	1193 Apr 20 j 05:53	6°♄21'08		min. Earth dist.	1198 Jul 05 j 15:18	23°♁40'36	
asc. node	1193 May 03 j 05:02	15°♄39'00		opposition	1198 Aug 03 j 23:02	18°♁52'29	0.37346 AU
	1193 May 23 j 15:00	0°♁		greatest brilliancy	1198 Aug 05 j 01:12	18°♁35'00	-6°-51'-12
max. Earth dist.	1193 May 29 j 12:35	4°♁04'56	2.51560 AU	direct	1198 Aug 04 j 20:25	18°♁38'12	-2.9m
morning rise	1193 Jun 16 j 09:21	16°♁16'33			1198 Sep 03 j 17:12	13°♁39'56	
	1193 Jul 06 j 22:26	0°♄			1198 Oct 28 j 22:48	0°♁	
	1193 Aug 22 j 11:25	0°♁		asc. node	1198 Dec 20 j 01:39	0°♁	
	1193 Oct 10 j 13:44	0°♁			1198 Dec 24 j 01:04	2°♁28'47	
	1193 Dec 03 j 12:20	0°♁			1199 Feb 05 j 05:39	0°♄	
retrograde	1194 Feb 23 j 17:34	26°♁41'23			1199 Mar 23 j 23:24	0°♁	
opposition	1194 Apr 01 j 22:03	18°♁34'03	2°06'53		1199 May 10 j 04:29	0°♄	
greatest brilliancy	1194 Apr 02 j 17:20	18°♁16'00	-1.7m	evening set	1199 Jun 26 j 17:55	0°♁	
min. Earth dist.	1194 Apr 08 j 20:55	15°♁58'16	0.58013 AU		1199 Jul 10 j 04:39	8°♁29'31	
direct	1194 May 12 j 11:15	8°♁54'17		max. Earth dist.	1199 Aug 13 j 01:32	0°♁	
desc. node	1194 May 21 j 17:50	9°♁27'09			1199 Aug 15 j 08:26	1°♁27'41	2.66703 AU
	1194 Jul 17 j 08:32	0°♍		conjunction	1199 Aug 24 j 21:49	7°♁35'07	1°03'12
	1194 Sep 03 j 21:26	0°♄		minimum elong	1199 Aug 24 j 22:39	7°♁36'27	1°03'11
	1194 Oct 15 j 15:32	0°♄			1199 Sep 28 j 12:02	0°♁	
	1194 Nov 23 j 22:51	0°♁		morning rise	1199 Oct 08 j 10:26	6°♁31'15	
	1195 Jan 01 j 16:17	0°♁			1199 Nov 12 j 15:50	0°♍	
	1195 Feb 10 j 00:45	0°♁			1199 Dec 26 j 10:30	0°♄	
asc. node	1195 Mar 21 j 03:56	28°♁47'51		desc. node	1200 Jan 11 j 15:22	11°♄19'54	
	1195 Mar 22 j 20:01	0°♄			1200 Feb 06 j 23:33	0°♄	
evening set	1195 Apr 16 j 12:47	17°♄31'15			1200 Mar 19 j 15:15	0°♁	
	1195 May 04 j 12:59	0°♁			1200 Apr 30 j 05:00	0°♁	
conjunction	1195 Jun 09 j 13:19	24°♁17'36	0°44'31		1200 Jun 12 j 16:58	0°♁	
minimum elong	1195 Jun 09 j 11:45	24°♁15'01	0°44'30	retrograde	1200 Aug 06 j 06:06	0°♄	
	1195 Jun 18 j 04:26	0°♄		min. Earth dist.	1200 Sep 08 j 18:57	7°♄15'30	
max. Earth dist.	1195 Jun 29 j 12:02	7°♄25'19	2.61908 AU		1200 Oct 06 j 23:23	1°♄48'45	0.46194 AU
morning rise	1195 Jul 28 j 18:53	26°♄21'49		greatest brilliancy	1200 Oct 12 j 03:42	30°♁♁	
	1195 Aug 03 j 11:16	0°♁		opposition	1200 Oct 14 j 11:34	29°♁10'32	-2.3m
	1195 Sep 19 j 23:44	0°♁		asc. node	1200 Oct 15 j 02:52	28°♁57'04	-1°-26'-33
	1195 Nov 07 j 16:27	0°♁		direct	1200 Nov 10 j 01:04	22°♁32'17	
	1195 Dec 28 j 14:39	0°♍			1200 Nov 16 j 20:47	22°♁13'15	
desc. node	1196 Feb 25 j 11:08	0°♄			1200 Dec 24 j 16:25	0°♄	
retrograde	1196 Apr 07 j 17:27	12°♄33'16			1201 Feb 24 j 20:51	0°♁	
opposition	1196 Apr 18 j 09:21	13°♄13'26			1201 Apr 17 j 20:45	0°♄	
greatest brilliancy	1196 May 21 j 13:30	6°♄53'42	-2°-23'-3		1201 Jun 06 j 13:29	0°♁	
min. Earth dist.	1196 May 22 j 14:55	6°♄33'01	-2.4m	evening set	1201 Jul 24 j 18:00	0°♁	
	1196 May 29 j 19:38	4°♄13'02	0.45263 AU	max. Earth dist.	1201 Aug 15 j 09:47	13°♁49'56	
	1196 Jun 16 j 01:53	30°♁♍			1201 Sep 07 j 23:52	29°♁11'34	2.61026 AU
					1201 Sep 09 j 05:17	0°♁	

conjunction	1201 Sep 30 j 17:01	14°♁18'43	0°33'22			1206 Nov 23 j 21:49	0°♃		
minimum elong	1201 Sep 30 j 18:06	14°♁20'31	0°33'21	retrograde		1207 Jan 01 j 08:26	7°♃37'08		
	1201 Oct 23 j 17:47	0°♃				1207 Feb 05 j 11:38	30°♃♁		
morning rise	1201 Nov 17 j 01:30	16°♃58'41		opposition		1207 Feb 10 j 03:14	28°♁10'30	4°25'58	
desc. node	1201 Nov 28 j 14:15	25°♃10'40		greatest brilliancy		1207 Feb 10 j 10:47	28°♁03'01	-1.2m	
	1201 Dec 05 j 07:32	0°♃		min. Earth dist.		1207 Feb 11 j 22:00	27°♁28'10	0.67368 AU	
	1202 Jan 15 j 05:07	0°♃		direct		1207 Mar 23 j 09:55	18°♁12'21		
	1202 Feb 23 j 21:48	0°♃				1207 May 12 j 01:36	0°♃		
	1202 Apr 04 j 02:11	0°♃				1207 Jul 09 j 09:36	0°♁		
	1202 May 13 j 17:28	0°♃		desc. node		1207 Jul 21 j 11:32	7°♁18'18		
	1202 Jun 24 j 06:48	0°♃				1207 Aug 25 j 13:03	0°♃		
	1202 Aug 09 j 22:28	0°♃				1207 Oct 07 j 01:36	0°♃		
asc. node	1202 Sep 27 j 23:48	22°♃38'22				1207 Nov 15 j 21:10	0°♃		
retrograde	1202 Oct 23 j 12:45	26°♃43'50				1207 Dec 24 j 05:49	0°♃		
min. Earth dist.	1202 Nov 26 j 02:00	19°♃13'20	0.58691 AU	evening set		1208 Jan 18 j 01:27	19°♃36'41		
opposition	1202 Dec 01 j 23:20	16°♃54'16	2°43'49			1208 Jan 31 j 05:44	0°♃		
greatest brilliancy	1202 Dec 01 j 02:37	17°♃14'39	-1.7m	greatest brilliancy		1208 Feb 07 j 13:29	5°♃44'53	1.2m	
direct	1203 Jan 08 j 00:02	8°♃23'34				1208 Mar 09 j 20:11	0°♃		
	1203 Mar 20 j 16:55	0°♃							
	1203 May 16 j 01:51	0°♁		conjunction		1208 Mar 25 j 10:22	11°♃50'49	0°-34'-14	
	1203 Jul 05 j 12:11	0°♃		minimum elong		1208 Mar 25 j 12:57	11°♃55'41	0°34'13	
	1203 Aug 21 j 16:20	0°♁				1208 Apr 18 j 20:19	0°♃		
evening set	1203 Sep 24 j 12:45	22°♁41'42		max. Earth dist.		1208 May 12 j 17:31	17°♃15'17	2.46383 AU	
	1203 Oct 05 j 02:44	0°♃		asc. node		1208 May 19 j 20:02	22°♃17'30		
max. Earth dist.	1203 Oct 09 j 17:25	3°♃12'58	2.50533 AU	morning rise		1208 May 27 j 12:56	27°♃42'05		
desc. node	1203 Oct 16 j 12:41	7°♃59'39				1208 May 30 j 20:03	0°♃		
						1208 Jul 14 j 03:06	0°♃		
conjunction	1203 Nov 14 j 05:04	28°♃35'35	0°-17'-35			1208 Aug 29 j 23:50	0°♁		
minimum elong	1203 Nov 14 j 04:11	28°♃33'58	0°17'35			1208 Oct 19 j 09:01	0°♃		
	1203 Nov 16 j 03:14	0°♃				1208 Dec 18 j 05:54	0°♁		
morning rise	1203 Dec 26 j 05:47	0°♃		retrograde		1209 Feb 06 j 22:54	12°♁05'08		
	1204 Jan 09 j 10:23	10°♃52'42		opposition		1209 Mar 17 j 03:43	3°♁29'14	3°06'35	
	1204 Feb 03 j 02:06	0°♃		greatest brilliancy		1209 Mar 18 j 00:27	3°♁09'22	-1.5m	
	1204 Mar 12 j 11:04	0°♃		min. Earth dist.		1209 Mar 22 j 17:56	1°♁20'46	0.61890 AU	
	1204 Apr 20 j 05:48	0°♃				1209 Mar 26 j 08:42	30°♃♁		
	1204 May 30 j 09:26	0°♃		direct		1209 Apr 27 j 08:07	23°♃33'51		
	1204 Jul 12 j 02:28	0°♃				1209 May 31 j 11:49	0°♁		
asc. node	1204 Aug 14 j 22:39	21°♃51'05		desc. node		1209 Jun 07 j 09:59	2°♁32'32		
	1204 Aug 28 j 12:50	0°♃				1209 Jul 30 j 15:05	0°♃		
	1204 Nov 01 j 02:23	0°♁				1209 Sep 13 j 20:38	0°♃		
retrograde	1204 Nov 27 j 20:31	4°♁08'31				1209 Oct 24 j 15:07	0°♃		
	1204 Dec 22 j 17:59	30°♃♁				1209 Dec 02 j 10:56	0°♃		
min. Earth dist.	1205 Jan 04 j 23:26	25°♁05'07	0.66247 AU			1210 Jan 09 j 19:45	0°♃		
opposition	1205 Jan 07 j 02:06	24°♁14'24	4°21'20			1210 Feb 17 j 20:04	0°♃		
greatest brilliancy	1205 Jan 06 j 14:34	24°♁25'57	-1.3m	evening set		1210 Mar 25 j 18:25	26°♃42'16		
direct	1205 Feb 15 j 21:49	14°♁45'05				1210 Mar 30 j 07:13	0°♃		
	1205 Apr 15 j 09:21	0°♁		asc. node		1210 Apr 06 j 19:14	5°♃24'51		
	1205 Jun 12 j 17:29	0°♃				1210 May 11 j 16:52	0°♃		
	1205 Aug 01 j 01:05	0°♁							
desc. node	1205 Sep 02 j 11:47	21°♁23'46		conjunction		1210 May 22 j 10:13	7°♃21'48	0°27'16	
	1205 Sep 15 j 01:00	0°♃		minimum elong		1210 May 22 j 08:53	7°♃19'31	0°27'15	
	1205 Oct 26 j 23:22	0°♃		max. Earth dist.		1210 Jun 18 j 18:36	25°♃46'47	2.58446 AU	
evening set	1205 Nov 12 j 07:10	12°♃09'33				1210 Jun 25 j 03:26	0°♃		
	1205 Dec 05 j 17:17	0°♃		morning rise		1210 Jul 13 j 09:57	11°♁58'29		
max. Earth dist.	1205 Dec 15 j 00:51	7°♃12'20	2.38137 AU			1210 Aug 10 j 10:17	0°♁		
						1210 Sep 27 j 08:18	0°♃		
conjunction	1206 Jan 12 j 10:58	29°♃27'03	-1°-3'-14			1210 Nov 16 j 07:44	0°♁		
minimum elong	1206 Jan 12 j 09:40	29°♃24'29	1°03'14			1211 Jan 10 j 07:37	0°♃		
	1206 Jan 13 j 03:42	0°♃		retrograde		1211 Mar 26 j 12:40	23°♃18'36		
	1206 Feb 20 j 04:34	0°♃		desc. node		1211 Apr 25 j 08:23	17°♃56'27		
morning rise	1206 Mar 23 j 07:20	24°♃17'00		opposition		1211 Apr 30 j 13:10	16°♃10'12	0°-15'-35	
	1206 Mar 30 j 17:31	0°♃		greatest brilliancy		1211 Apr 21 j 03:49	19°♃15'46	-2.1m	
	1206 May 09 j 14:34	0°♃		min. Earth dist.		1211 May 08 j 22:58	13°♃14'05	0.50542 AU	
	1206 Jun 20 j 13:50	0°♃		direct		1211 Jun 08 j 03:27	7°♃24'29		
asc. node	1206 Jul 02 j 21:57	8°♃28'38				1211 Aug 13 j 07:20	0°♃		
	1206 Aug 04 j 09:46	0°♃				1211 Sep 28 j 16:10	0°♃		
	1206 Sep 22 j 15:22	0°♁				1211 Nov 08 j 17:26	0°♃		

	1211 Dec 18 j 11:55	0°♄		morning rise	1216 Oct 31 j 07:29	0°♃22'42	
	1212 Jan 27 j 16:06	0°♃			1216 Dec 12 j 17:14	0°♄	
asc. node	1212 Feb 22 j 18:57	19°♃01'02		desc. node	1216 Dec 15 j 05:48	1°♄47'58	
	1212 Mar 09 j 04:18	0°♄			1217 Jan 23 j 03:06	0°♃	
	1212 Apr 21 j 11:17	0°♂			1217 Mar 04 j 09:27	0°≈	
evening set	1212 May 15 j 05:21	15°♂56'59			1217 Apr 13 j 04:15	0°♄	
	1212 Jun 05 j 12:38	0°♁			1217 May 23 j 14:06	0°♃	
					1217 Jul 05 j 17:21	0°♄	
conjunction	1212 Jul 04 j 02:55	18°♁33'45	1°02'19		1217 Aug 28 j 05:32	0°♂	
minimum elong	1212 Jul 04 j 01:53	18°♁32'05	1°02'19	retrograde	1217 Oct 07 j 15:04	9°♂44'50	
max. Earth dist.	1212 Jul 13 j 20:46	24°♁49'36	2.65664 AU	asc. node	1217 Oct 14 j 16:17	9°♂23'11	
	1212 Jul 21 j 22:35	0°♃		min. Earth dist.	1217 Nov 08 j 01:54	3°♂00'19	0.54174 AU
morning rise	1212 Aug 19 j 11:29	18°♃10'59		opposition	1217 Nov 15 j 05:59	0°♂15'24	1°29'50
	1212 Sep 07 j 02:43	0°♄		greatest brilliancy	1217 Nov 14 j 14:55	0°♂29'52	-1.9m
	1212 Oct 24 j 14:24	0°♁			1217 Nov 15 j 22:06	30°♂	
	1212 Dec 11 j 10:01	0°♃		direct	1217 Dec 20 j 18:47	22°♂19'35	
	1213 Jan 29 j 08:46	0°♄			1218 Jan 28 j 01:44	0°♂	
desc. node	1213 Mar 12 j 07:57	24°♄05'57			1218 Apr 01 j 22:16	0°♁	
	1213 Mar 23 j 11:48	0°♃			1218 May 24 j 13:57	0°♃	
retrograde	1213 Jun 03 j 07:26	23°♃03'57			1218 Jul 12 j 21:25	0°♄	
opposition	1213 Jul 03 j 17:41	17°♃58'06	-6°-3'-50		1218 Aug 28 j 17:07	0°♁	
greatest brilliancy	1213 Jul 04 j 20:56	17°♃39'25	-2.8m	evening set	1218 Sep 08 j 04:40	6°♁56'08	
min. Earth dist.	1213 Jul 07 j 23:53	16°♃48'11	0.38653 AU	max. Earth dist.	1218 Sep 25 j 21:13	18°♁50'21	2.55140 AU
direct	1213 Aug 04 j 06:29	12°♃22'32			1218 Oct 12 j 03:19	0°♃	
	1213 Sep 29 j 16:47	0°≈					
	1213 Nov 18 j 00:29	0°♄		conjunction	1218 Oct 26 j 13:57	10°♃06'14	0°04'05
	1214 Jan 01 j 15:09	0°♃		minimum elong	1218 Oct 26 j 14:07	10°♃06'32	0°04'05
asc. node	1214 Jan 09 j 17:24	5°♃29'49		behind sun begin	1218 Oct 25 j 17:38	9°♃30'26	
	1214 Feb 14 j 23:18	0°♄		behind sun end	1218 Oct 27 j 10:37	10°♃42'41	
	1214 Apr 01 j 05:05	0°♂		desc. node	1218 Nov 02 j 05:16	14°♃48'18	
	1214 May 17 j 13:27	0°♁			1218 Nov 23 j 07:57	0°♄	
evening set	1214 Jun 25 j 10:54	24°♁47'34		morning rise	1218 Dec 17 j 08:31	17°♄42'58	
	1214 Jul 03 j 15:43	0°♃			1219 Jan 02 j 16:39	0°♄	
max. Earth dist.	1214 Aug 06 j 07:09	21°♃22'38	2.67479 AU		1219 Feb 10 j 19:24	0°≈	
					1219 Mar 21 j 10:00	0°♄	
conjunction	1214 Aug 10 j 17:37	24°♃12'12	1°08'05		1219 Apr 29 j 09:53	0°♃	
minimum elong	1214 Aug 10 j 18:01	24°♃12'50	1°08'05		1219 Jun 08 j 20:54	0°♄	
	1214 Aug 19 j 19:42	0°♄			1219 Jul 22 j 08:20	0°♂	
morning rise	1214 Sep 24 j 04:15	22°♄42'51		asc. node	1219 Sep 01 j 14:42	25°♂05'32	
	1214 Oct 05 j 09:52	0°♁			1219 Sep 10 j 18:22	0°♁	
	1214 Nov 20 j 00:56	0°♃		retrograde	1219 Nov 15 j 05:43	20°♁33'33	
	1215 Jan 03 j 15:09	0°♄		min. Earth dist.	1219 Dec 21 j 17:15	12°♁02'40	0.64034 AU
desc. node	1215 Jan 28 j 07:15	16°♄51'53		opposition	1219 Dec 25 j 08:00	10°♁35'58	3°56'36
	1215 Feb 16 j 08:45	0°♃		greatest brilliancy	1219 Dec 24 j 14:33	10°♁53'25	-1.4m
	1215 Mar 31 j 16:31	0°≈		direct	1220 Feb 02 j 05:22	1°♁25'22	
	1215 May 14 j 23:56	0°♄			1220 Apr 28 j 14:40	0°♃	
	1215 Jul 05 j 11:12	0°♃			1220 Jun 21 j 09:45	0°♄	
retrograde	1215 Aug 18 j 15:32	11°♃50'38			1220 Aug 08 j 15:23	0°♁	
min. Earth dist.	1215 Sep 14 j 07:05	7°♃08'52	0.41331 AU	desc. node	1220 Sep 19 j 04:24	27°♁48'34	
greatest brilliancy	1215 Sep 20 j 07:05	5°♃15'46	-2.6m		1220 Sep 22 j 08:18	0°♃	
opposition	1215 Sep 21 j 13:42	4°♃51'30	-3°-55'-46	evening set	1220 Oct 22 j 02:43	21°♃07'05	
	1215 Oct 10 j 16:40	30°♄			1220 Nov 03 j 06:39	0°♄	
direct	1215 Oct 22 j 12:54	29°♄03'51		max. Earth dist.	1220 Nov 07 j 13:43	3°♄10'06	2.42654 AU
	1215 Nov 03 j 13:25	0°♃			1220 Dec 13 j 03:11	0°♄	
asc. node	1215 Nov 27 j 16:17	6°♃27'37					
	1216 Jan 16 j 02:15	0°♄		conjunction	1220 Dec 17 j 09:47	3°♄17'18	0°-50'-15
	1216 Mar 07 j 20:09	0°♂		minimum elong	1220 Dec 17 j 07:28	3°♄12'51	0°50'15
	1216 Apr 26 j 06:08	0°♁			1221 Jan 20 j 16:36	0°≈	
	1216 Jun 13 j 21:27	0°♃		morning rise	1221 Feb 20 j 20:05	24°≈30'56	
evening set	1216 Jul 31 j 20:47	0°♄08'25			1221 Feb 27 j 19:29	0°♄	
	1216 Jul 31 j 15:30	0°♄			1221 Apr 07 j 09:14	0°♃	
max. Earth dist.	1216 Aug 29 j 00:54	18°♄14'01	2.63855 AU		1221 May 17 j 06:49	0°♄	
					1221 Jun 28 j 09:00	0°♂	
conjunction	1216 Sep 15 j 13:46	29°♄41'15	0°47'47	asc. node	1221 Jul 19 j 12:58	14°♂19'30	
minimum elong	1216 Sep 15 j 14:57	29°♄43'12	0°47'46		1221 Aug 12 j 18:18	0°♁	
	1216 Sep 16 j 01:10	0°♁			1221 Oct 03 j 07:12	0°♃	
	1216 Oct 30 j 18:14	0°♃		retrograde	1221 Dec 18 j 20:55	24°♃56'20	

opposition	1222 Jan 27 j 23:12	15°♈16'18	4°33'36	asc. node	1227 Mar 11 j 10:38	25°♃21'05	
greatest brilliancy	1222 Jan 27 j 23:10	15°♈16'20	-1.2m		1227 Mar 17 j 21:49	0°♄	
min. Earth dist.	1222 Jan 28 j 05:30	15°♈10'01	0.67723 AU	evening set	1227 Apr 27 j 20:00	28°♄40'44	
direct	1222 Mar 09 j 20:03	5°♈26'19			1227 Apr 29 j 18:17	0°♂	
	1222 May 26 j 14:45	0°♁			1227 Jun 13 j 12:11	0°♆	
	1222 Jul 18 j 12:49	0°♂					
desc. node	1222 Aug 07 j 03:05	12°♁23'40		conjunction	1227 Jun 19 j 04:26	3°♆43'42	0°52'23
	1222 Sep 02 j 13:18	0°♂		minimum elong	1227 Jun 19 j 02:59	3°♆41'18	0°52'22
	1222 Oct 14 j 18:16	0°♄		max. Earth dist.	1227 Jul 05 j 08:45	14°♆16'14	2.63479 AU
	1222 Nov 23 j 12:15	0°♃			1227 Jul 29 j 19:05	0°♈	
evening set	1222 Dec 21 j 01:02	21°♃28'10		morning rise	1227 Aug 06 j 05:17	4°♈44'31	
	1222 Dec 31 j 20:52	0°♂			1227 Sep 15 j 03:17	0°♁	
	1223 Feb 07 j 20:15	0°♁			1227 Nov 02 j 07:08	0°♂	
					1227 Dec 21 j 18:50	0°♂	
conjunction	1223 Feb 26 j 09:42	14°♁32'47	0°-55'-38		1228 Feb 13 j 04:48	0°♄	
minimum elong	1223 Feb 26 j 12:36	14°♁38'27	0°55'37	desc. node	1228 Mar 28 j 23:12	19°♄53'03	
	1223 Mar 18 j 08:58	0°♃		retrograde	1228 May 03 j 15:28	26°♄37'12	
max. Earth dist.	1223 Apr 18 j 11:33	23°♃30'15	2.40957 AU	opposition	1228 Jun 04 j 19:53	20°♄46'09	-3°-46'-27
	1223 Apr 27 j 06:31	0°♄		greatest brilliancy	1228 Jun 06 j 05:02	20°♄20'33	-2.5m
morning rise	1223 May 05 j 11:58	6°♄01'08		min. Earth dist.	1228 Jun 12 j 06:48	18°♄29'01	0.42539 AU
asc. node	1223 Jun 06 j 13:05	28°♄52'08		direct	1228 Jul 09 j 12:54	13°♄47'44	
	1223 Jun 08 j 04:01	0°♂			1228 Aug 31 j 18:56	0°♃	
	1223 Jul 22 j 12:43	0°♆			1228 Oct 19 j 07:49	0°♂	
	1223 Sep 07 j 22:25	0°♈			1228 Dec 01 j 00:34	0°♁	
	1223 Oct 30 j 11:46	0°♁			1229 Jan 11 j 23:38	0°♃	
retrograde	1224 Jan 23 j 15:08	28°♁27'19		asc. node	1229 Jan 26 j 09:49	10°♃12'20	
opposition	1224 Mar 02 j 14:28	19°♁28'26	3°48'31		1229 Feb 23 j 18:56	0°♄	
greatest brilliancy	1224 Mar 03 j 07:54	19°♁11'27	-1.3m		1229 Apr 09 j 00:51	0°♂	
min. Earth dist.	1224 Mar 06 j 17:52	17°♁51'43	0.64799 AU		1229 May 24 j 18:04	0°♆	
direct	1224 Apr 13 j 01:10	9°♁27'00		evening set	1229 Jun 10 j 03:42	10°♆34'49	
	1224 Jun 19 j 13:58	0°♂			1229 Jul 10 j 12:03	0°♈	
desc. node	1224 Jun 24 j 01:36	2°♂18'17					
	1224 Aug 10 j 00:19	0°♂		conjunction	1229 Jul 27 j 10:26	10°♈47'15	1°09'05
	1224 Sep 22 j 17:23	0°♄		minimum elong	1229 Jul 27 j 10:17	10°♈47'01	1°09'05
	1224 Nov 01 j 23:16	0°♃		max. Earth dist.	1229 Jul 28 j 05:03	11°♈16'52	2.67427 AU
	1224 Dec 10 j 12:53	0°♂			1229 Aug 26 j 14:32	0°♁	
	1225 Jan 17 j 16:45	0°♁		morning rise	1229 Sep 10 j 06:04	9°♁20'52	
	1225 Feb 25 j 11:50	0°♃			1229 Oct 12 j 10:43	0°♂	
evening set	1225 Mar 01 j 03:37	2°♃46'45			1229 Nov 27 j 16:56	0°♂	
	1225 Apr 06 j 17:21	0°♄			1230 Jan 12 j 10:35	0°♄	
asc. node	1225 Apr 23 j 12:22	12°♄07'28		desc. node	1230 Feb 13 j 23:21	21°♄25'05	
					1230 Feb 27 j 01:15	0°♃	
conjunction	1225 May 02 j 00:57	18°♄11'11	0°05'23		1230 Apr 14 j 16:44	0°♂	
minimum elong	1225 May 02 j 00:36	18°♄10'34	0°05'23		1230 Jun 07 j 03:09	0°♁	
behind sun begin	1225 May 01 j 01:18	17°♄29'21		retrograde	1230 Jul 22 j 22:26	12°♁03'54	
behind sun end	1225 May 02 j 23:53	18°♄51'43		min. Earth dist.	1230 Aug 19 j 05:22	7°♁36'06	0.38028 AU
	1225 May 18 j 21:32	0°♂		greatest brilliancy	1230 Aug 22 j 08:07	6°♁44'25	-2.8m
max. Earth dist.	1225 Jun 06 j 09:44	12°♂42'30	2.54201 AU	opposition	1230 Aug 23 j 06:21	6°♁29'01	-6°-13'-23
morning rise	1225 Jun 26 j 16:15	26°♂20'09		direct	1230 Sep 21 j 19:14	1°♁27'24	
	1225 Jul 02 j 04:50	0°♆			1230 Dec 10 j 01:36	0°♃	
	1225 Aug 17 j 13:48	0°♈		asc. node	1230 Dec 14 j 08:38	2°♃25'38	
	1225 Oct 05 j 02:38	0°♁			1231 Jan 29 j 07:31	0°♄	
	1225 Nov 26 j 03:07	0°♂			1231 Mar 18 j 06:56	0°♂	
	1226 Jan 30 j 18:49	0°♂			1231 May 05 j 03:02	0°♆	
retrograde	1226 Mar 06 j 03:02	6°♂05'13			1231 Jun 22 j 00:11	0°♈	
	1226 Apr 06 j 20:20	30°♂♁		evening set	1231 Jul 18 j 11:07	16°♈40'00	
opposition	1226 Apr 11 j 15:27	28°♂16'32	1°22'14		1231 Aug 08 j 11:02	0°♁	
greatest brilliancy	1226 Apr 12 j 06:10	28°♂03'01	-1.8m	max. Earth dist.	1231 Aug 20 j 16:50	7°♁49'51	2.65927 AU
min. Earth dist.	1226 Apr 19 j 06:13	25°♂29'07	0.55544 AU				
desc. node	1226 May 12 j 00:30	19°♂28'30		conjunction	1231 Sep 02 j 00:58	15°♁46'46	0°58'36
direct	1226 May 21 j 16:34	18°♂50'44		minimum elong	1231 Sep 02 j 02:00	15°♁48'25	0°58'36
	1226 Jul 05 j 15:10	0°♂			1231 Sep 23 j 21:19	0°♂	
	1226 Aug 27 j 19:50	0°♄		morning rise	1231 Oct 16 j 20:01	15°♂10'13	
	1226 Oct 09 j 14:48	0°♃			1231 Nov 07 j 21:14	0°♂	
	1226 Nov 18 j 08:53	0°♂			1231 Dec 21 j 08:31	0°♄	
	1226 Dec 27 j 08:43	0°♁		desc. node	1232 Jan 01 j 22:35	8°♄10'09	
	1227 Feb 04 j 22:11	0°♃			1232 Feb 01 j 10:35	0°♃	

	1232 Mar 13 j 11:59	0°♊			1237 Apr 03 j 06:59	0°♈	
	1232 Apr 23 j 05:19	0°♋			1237 Jun 06 j 11:37	0°♍	
	1232 Jun 04 j 02:10	0°♌			1237 Jul 26 j 20:20	0°♎	
	1232 Jul 21 j 05:37	0°♍		desc. node	1237 Aug 23 j 18:52	18°♏10'55	
retrograde	1232 Sep 19 j 22:44	20°♎17'26			1237 Sep 10 j 04:32	0°♐	
min. Earth dist.	1232 Oct 19 j 05:46	14°♏23'10	0.49093 AU		1237 Oct 22 j 05:33	0°♑	
opposition	1232 Oct 27 j 07:03	11°♐26'34	0°-12'-41	evening set	1237 Nov 25 j 10:40	25°♒44'33	
greatest brilliancy	1232 Dec 11 j 11:58	5°♑02'58	-2.6m		1237 Nov 30 j 23:34	0°♓	
asc. node	1232 Oct 31 j 07:08	10°♒00'26			1238 Jan 08 j 09:14	0°♊	
direct	1232 Nov 30 j 01:58	4°♒14'25					
	1233 Feb 16 j 10:00	0°♓		conjunction	1238 Jan 28 j 07:47	15°♋45'05	-1°-4'-52
	1233 Apr 11 j 21:49	0°♌		minimum elong	1238 Jan 28 j 08:05	15°♋45'40	1°04'53
	1233 Jun 01 j 11:07	0°♍		max. Earth dist.	1238 Feb 08 j 16:47	24°♋44'01	2.37115 AU
	1233 Jul 20 j 00:12	0°♎			1238 Feb 15 j 09:06	0°♋	
evening set	1233 Aug 23 j 21:14	22°♏19'38			1238 Mar 25 j 21:11	0°♌	
	1233 Sep 04 j 14:34	0°♏		morning rise	1238 Apr 08 j 20:17	10°♍39'23	
max. Earth dist.	1233 Sep 14 j 05:04	6°♏21'22	2.59138 AU		1238 May 04 j 17:29	0°♎	
					1238 Jun 15 j 14:43	0°♏	
conjunction	1233 Oct 09 j 17:33	23°♐33'39	0°23'29	asc. node	1238 Jun 23 j 04:25	5°♐14'22	
minimum elong	1233 Oct 09 j 18:25	23°♐35'07	0°23'28		1238 Jul 30 j 04:21	0°♑	
	1233 Oct 19 j 02:31	0°♒			1238 Sep 16 j 12:07	0°♈	
desc. node	1233 Nov 18 j 20:55	21°♓36'17			1238 Nov 12 j 07:09	0°♉	
morning rise	1233 Nov 27 j 08:14	27°♓40'46		retrograde	1239 Jan 09 j 07:05	15°♊25'16	
	1233 Nov 30 j 13:25	0°♑		opposition	1239 Feb 17 j 20:14	6°♋07'39	4°15'47
	1234 Jan 10 j 06:30	0°♒		greatest brilliancy	1239 Feb 18 j 07:44	5°♋56'20	-1.3m
	1234 Feb 18 j 18:06	0°♓		min. Earth dist.	1239 Feb 20 j 11:35	5°♋05'17	0.66727 AU
	1234 Mar 29 j 16:48	0°♊			1239 Mar 06 j 13:52	30°♌06'56	
	1234 May 08 j 00:50	0°♋		direct	1239 Mar 31 j 05:58	26°♍06'56	
	1234 Jun 18 j 00:48	0°♌			1239 Apr 26 j 20:33	0°♎	
	1234 Aug 01 j 23:32	0°♍			1239 Jul 02 j 18:52	0°♏	
asc. node	1234 Sep 18 j 06:59	25°♎24'04		desc. node	1239 Jul 11 j 17:20	5°♏11'00	
	1234 Sep 30 j 02:45	0°♏			1239 Aug 20 j 02:00	0°♐	
retrograde	1234 Nov 01 j 01:48	6°♏04'16			1239 Oct 01 j 23:44	0°♑	
	1234 Nov 30 j 23:21	30°♐00'00			1239 Nov 10 j 22:49	0°♒	
min. Earth dist.	1234 Dec 05 j 17:08	28°♐10'47	0.60833 AU	greatest brilliancy	1239 Dec 10 j 05:26	22°♓47'42	1.2m
opposition	1234 Dec 10 j 19:27	26°♐09'25	3°16'14		1239 Dec 19 j 09:08	0°♊	
greatest brilliancy	1234 Dec 09 j 22:36	26°♐30'08	-1.5m		1240 Jan 26 j 09:59	0°♋	
direct	1235 Jan 17 j 13:33	17°♑22'44		evening set	1240 Feb 02 j 23:11	5°♋55'21	
	1235 Mar 10 j 10:20	0°♌			1240 Mar 05 j 01:10	0°♍	
	1235 May 09 j 23:16	0°♍					
	1235 Jun 30 j 09:14	0°♎		conjunction	1240 Apr 08 j 21:14	26°♌10'32	0°-19'-46
	1235 Aug 16 j 22:00	0°♏		minimum elong	1240 Apr 08 j 22:44	26°♌13'18	0°19'46
	1235 Sep 30 j 10:55	0°♐			1240 Apr 14 j 02:09	0°♎	
evening set	1235 Oct 04 j 09:46	2°♑45'08		asc. node	1240 May 10 j 04:00	18°♏48'23	
desc. node	1235 Oct 06 j 19:35	4°♑26'14		max. Earth dist.	1240 May 22 j 19:18	27°♑42'29	2.49293 AU
max. Earth dist.	1235 Oct 18 j 20:53	12°♑57'07	2.47770 AU		1240 May 26 j 02:08	0°♓	
	1235 Nov 11 j 10:59	0°♒		morning rise	1240 Jun 08 j 03:17	9°♒00'40	
					1240 Jul 09 j 07:51	0°♓	
conjunction	1235 Nov 25 j 18:33	10°♑35'08	0°-30'-11		1240 Aug 24 j 22:13	0°♈	
minimum elong	1235 Nov 25 j 16:59	10°♑32'14	0°30'10		1240 Oct 13 j 10:24	0°♉	
	1235 Dec 21 j 11:32	0°♒			1240 Dec 08 j 03:16	0°♊	
morning rise	1236 Jan 24 j 01:52	25°♓58'42		retrograde	1241 Feb 16 j 07:42	20°♋44'39	
	1236 Jan 29 j 05:27	0°♓		opposition	1241 Mar 25 j 23:57	12°♌23'56	2°34'11
	1236 Mar 07 j 12:01	0°♊		greatest brilliancy	1241 Mar 26 j 20:31	12°♌04'28	-1.6m
	1236 Apr 15 j 04:21	0°♋		min. Earth dist.	1241 Apr 01 j 09:11	9°♌59'08	0.59846 AU
greatest brilliancy	1236 Apr 19 j 00:58	2°♍56'55	1.2m	direct	1241 May 05 j 21:35	2°♌35'43	
	1236 May 25 j 04:41	0°♎		desc. node	1241 May 28 j 15:54	5°♌41'13	
	1236 Jul 06 j 13:42	0°♏			1241 Jul 22 j 20:19	0°♍	
asc. node	1236 Aug 05 j 06:23	19°♐36'46			1241 Sep 07 j 18:20	0°♎	
	1236 Aug 21 j 23:00	0°♑			1241 Oct 19 j 01:47	0°♏	
	1236 Oct 17 j 12:24	0°♒			1241 Nov 27 j 04:02	0°♐	
retrograde	1236 Dec 05 j 13:01	12°♓06'54			1242 Jan 04 j 17:07	0°♑	
opposition	1237 Jan 14 j 18:33	2°♔16'56	4°29'29		1242 Feb 12 j 20:58	0°♒	
greatest brilliancy	1237 Jan 14 j 10:57	2°♔24'32	-1.3m		1242 Mar 25 j 11:26	0°♓	
min. Earth dist.	1237 Jan 13 j 12:24	2°♔47'06	0.67045 AU	asc. node	1242 Mar 28 j 03:12	1°♕55'02	
	1237 Jan 20 j 13:10	30°♕00'00		evening set	1242 Apr 07 j 10:07	9°♕17'18	
direct	1237 Feb 24 j 00:31	22°♖39'08			1242 May 06 j 23:39	0°♎	

conjunction	1242 Jun 01 j 23:12	17°II40'15	0°37'48	retrograde	1247 Aug 31 j 14:21	27°V10'52	
minimum elong	1242 Jun 01 j 21:39	17°II37'40	0°37'46	min. Earth dist.	1247 Sep 27 j 23:52	22°V06'09	0.43908 AU
	1242 Jun 20 j 11:39	0°S		opposition	1247 Oct 05 j 23:26	19°V24'58	-2°-28'-30
max. Earth dist.	1242 Jun 25 j 02:46	3°S03'07	2.60460 AU	greatest brilliancy	1247 Oct 04 j 23:40	19°V45'03	-2.5m
morning rise	1242 Jul 22 j 07:52	20°S46'03		direct	1247 Nov 06 j 21:07	13°V05'58	
	1242 Aug 05 j 17:13	0°Q		asc. node	1247 Nov 18 j 00:22	13°V53'33	
	1242 Sep 22 j 08:44	0°M			1248 Jan 04 j 23:35	0°R	
	1242 Nov 10 j 12:37	0°A			1248 Mar 01 j 00:58	0°II	
	1243 Jan 01 j 19:24	0°M			1248 Apr 20 j 18:13	0°S	
	1243 Mar 10 j 02:57	0°Z			1248 Jun 08 j 23:01	0°Q	
retrograde	1243 Apr 08 j 12:44	4°Z37'29			1248 Jul 26 j 23:15	0°M	
desc. node	1243 Apr 15 j 15:50	4°Z18'20		evening set	1248 Aug 09 j 04:02	8°M24'30	
	1243 May 06 j 03:02	30°RM		max. Earth dist.	1248 Sep 03 j 18:48	24°M58'29	2.62396 AU
opposition	1243 May 12 j 12:54	27°M55'04	-1°-24'-46		1248 Sep 11 j 10:45	0°A	
greatest brilliancy	1243 May 13 j 05:20	27°M41'11	-2.2m				
min. Earth dist.	1243 May 21 j 00:07	25°M03'53	0.47610 AU	conjunction	1248 Sep 24 j 03:03	8°A23'34	0°39'50
direct	1243 Jun 18 j 23:36	19°M40'48		minimum elong	1248 Sep 24 j 04:12	8°A25'29	0°39'50
	1243 Jul 30 j 14:42	0°Z			1248 Oct 26 j 02:09	0°M	
	1243 Sep 20 j 15:38	0°S		morning rise	1248 Nov 09 j 15:42	10°M04'16	
	1243 Nov 02 j 01:58	0°≈		desc. node	1248 Dec 05 j 12:43	28°M19'32	
	1243 Dec 12 j 12:55	0°K			1248 Dec 07 j 20:54	0°Z	
	1244 Jan 22 j 03:59	0°V			1249 Jan 18 j 00:20	0°S	
asc. node	1244 Feb 13 j 00:50	15°V48'46			1249 Feb 26 j 23:09	0°≈	
	1244 Mar 04 j 00:36	0°R			1249 Apr 07 j 09:16	0°K	
	1244 Apr 16 j 13:56	0°II			1249 May 17 j 06:44	0°V	
evening set	1244 May 25 j 00:27	25°II32'58			1249 Jun 28 j 07:36	0°R	
	1244 May 31 j 19:47	0°S			1249 Aug 15 j 16:31	0°II	
				asc. node	1249 Oct 04 j 23:12	19°II10'08	
conjunction	1244 Jul 12 j 19:23	27°S06'46	1°06'02	retrograde	1249 Oct 16 j 21:56	20°II08'11	
minimum elong	1244 Jul 12 j 18:39	27°S05'35	1°06'01	min. Earth dist.	1249 Nov 18 j 12:56	12°II57'25	0.56766 AU
	1244 Jul 17 j 07:41	0°Q		greatest brilliancy	1249 Nov 24 j 05:02	10°II44'52	-1.8m
max. Earth dist.	1244 Jul 19 j 05:18	1°Q12'54	2.66535 AU	opposition	1249 Nov 25 j 00:29	10°II25'53	2°15'53
morning rise	1244 Aug 27 j 11:04	26°Q12'06		direct	1249 Dec 31 j 10:07	2°II09'35	
	1244 Sep 02 j 10:32	0°M			1250 Mar 25 j 09:42	0°S	
	1244 Oct 19 j 15:35	0°A			1250 May 18 j 23:38	0°Q	
	1244 Dec 05 j 19:16	0°M			1250 Jul 07 j 22:33	0°M	
	1245 Jan 22 j 07:11	0°Z			1250 Aug 24 j 00:12	0°A	
desc. node	1245 Mar 02 j 15:01	24°Z09'35		evening set	1250 Sep 17 j 08:56	16°A13'25	
	1245 Mar 12 j 11:16	0°S		max. Earth dist.	1250 Oct 03 j 10:54	27°A12'33	2.52673 AU
	1245 May 08 j 22:16	0°≈			1250 Oct 07 j 11:44	0°M	
retrograde	1245 Jun 21 j 13:05	10°≈19'08		desc. node	1250 Oct 23 j 11:24	11°M11'47	
opposition	1245 Jul 21 j 15:46	5°≈21'35	-6°-47'-42				
greatest brilliancy	1245 Jul 22 j 03:19	5°≈13'55	-2.9m	conjunction	1250 Nov 05 j 21:48	20°M46'43	0°-8'-14
min. Earth dist.	1245 Jul 23 j 02:22	4°≈58'35	0.37533 AU	minimum elong	1250 Nov 05 j 21:25	20°M46'01	0°08'15
direct	1245 Aug 20 j 22:20	0°≈16'25		behind sun begin	1250 Nov 05 j 02:25	20°M11'54	
	1245 Nov 07 j 14:38	0°K		behind sun end	1250 Nov 06 j 16:25	21°M20'11	
	1245 Dec 25 j 05:54	0°V			1250 Nov 18 j 15:21	0°Z	
asc. node	1245 Dec 31 j 00:01	3°V45'45			1250 Dec 28 j 21:24	0°S	
	1246 Feb 08 j 21:36	0°R		morning rise	1250 Dec 29 j 22:46	0°S48'11	
	1246 Mar 26 j 20:40	0°II			1251 Feb 05 j 20:58	0°≈	
	1246 May 12 j 15:19	0°S			1251 Mar 16 j 08:17	0°K	
	1246 Jun 28 j 23:11	0°Q			1251 Apr 24 j 04:22	0°V	
evening set	1246 Jul 03 j 23:11	3°Q09'50			1251 Jun 03 j 09:37	0°R	
max. Earth dist.	1246 Aug 11 j 13:15	27°Q39'34	2.67164 AU		1251 Jul 16 j 07:15	0°II	
	1246 Aug 15 j 05:15	0°M		asc. node	1251 Aug 22 j 21:42	23°II49'13	
					1251 Sep 02 j 13:52	0°S	
conjunction	1246 Aug 18 j 20:44	2°M19'44	1°05'41	retrograde	1251 Nov 23 j 02:54	28°S53'53	
minimum elong	1246 Aug 18 j 21:24	2°M20'48	1°05'41	min. Earth dist.	1251 Dec 30 j 12:59	20°S04'10	0.65380 AU
	1246 Sep 30 j 17:49	0°A		opposition	1252 Jan 02 j 07:24	18°S57'39	4°12'52
morning rise	1246 Oct 02 j 06:51	1°A00'24		greatest brilliancy	1252 Jan 01 j 17:02	19°S12'03	-1.3m
	1246 Nov 15 j 02:55	0°M		direct	1252 Feb 10 j 17:37	9°S35'58	
	1246 Dec 29 j 06:24	0°Z			1252 Apr 20 j 13:40	0°Q	
desc. node	1247 Jan 18 j 13:49	14°Z04'19			1252 Jun 15 j 17:49	0°M	
	1247 Feb 10 j 07:17	0°S			1252 Aug 03 j 15:12	0°A	
	1247 Mar 24 j 14:36	0°≈		desc. node	1252 Sep 09 j 10:16	24°A24'23	
	1247 May 06 j 02:15	0°K			1252 Sep 17 j 13:21	0°M	
	1247 Jun 20 j 14:30	0°V			1252 Oct 29 j 13:02	0°Z	

evening set	1252 Nov 02 j 19:04	3°♂08'12		morning rise	1257 Jul 06 j 10:31	5°♄54'08	
max. Earth dist.	1252 Nov 25 j 07:04	20°♂00'23	2.39968 AU		1257 Aug 12 j 17:58	0°♂	
	1252 Dec 08 j 08:56	0°♄			1257 Sep 29 j 20:50	0°♃	
					1257 Nov 19 j 13:06	0°♌	
conjunction	1252 Dec 31 j 16:55	18°♄05'47	0°-58'-57		1258 Jan 16 j 09:42	0°♍	
minimum elong	1252 Dec 31 j 14:53	18°♄01'49	0°58'58	retrograde	1258 Mar 17 j 08:07	16°♍02'39	
	1253 Jan 15 j 21:10	0°♃		opposition	1258 Apr 22 j 01:20	8°♍35'12	0°29'23
	1253 Feb 22 j 22:56	0°♂		greatest brilliancy	1258 Apr 22 j 07:32	8°♍29'39	-1.9m
morning rise	1253 Mar 09 j 23:51	11°♂47'28		min. Earth dist.	1258 Apr 30 j 04:00	5°♍40'55	0.52850 AU
	1253 Apr 02 j 11:34	0°♃		desc. node	1258 May 02 j 06:56	4°♍56'58	
	1253 May 12 j 07:43	0°♄			1258 May 22 j 16:08	30°♃	
	1253 Jun 23 j 06:28	0°♌		direct	1258 May 31 j 09:09	29°♄28'48	
asc. node	1253 Jul 09 j 21:18	11°♌22'05			1258 Jun 09 j 04:40	0°♍	
	1253 Aug 07 j 05:16	0°♄			1258 Aug 19 j 15:15	0°♂	
	1253 Sep 26 j 02:56	0°♂			1258 Oct 03 j 02:55	0°♄	
	1253 Dec 04 j 22:30	0°♃			1258 Nov 12 j 12:33	0°♃	
retrograde	1253 Dec 26 j 13:30	2°♃40'17			1258 Dec 21 j 21:34	0°♂	
	1254 Jan 15 j 20:09	30°♃			1259 Jan 30 j 17:39	0°♃	
opposition	1254 Feb 04 j 12:31	23°♂07'19	4°30'27	asc. node	1259 Mar 01 j 18:11	21°♃58'45	
greatest brilliancy	1254 Feb 04 j 16:47	23°♂03'05	-1.2m		1259 Mar 12 j 22:38	0°♄	
min. Earth dist.	1254 Feb 05 j 15:22	22°♂40'40	0.67654 AU		1259 Apr 24 j 23:22	0°♌	
direct	1254 Mar 17 j 15:35	13°♂12'10		evening set	1259 May 08 j 12:37	9°♌11'07	
	1254 May 18 j 00:47	0°♃			1259 Jun 08 j 20:05	0°♄	
	1254 Jul 12 j 17:08	0°♌					
desc. node	1254 Jul 28 j 10:01	9°♄41'35		conjunction	1259 Jun 28 j 10:27	12°♄47'22	0°58'42
	1254 Aug 28 j 09:43	0°♍		minimum elong	1259 Jun 28 j 09:12	12°♄45'21	0°58'41
	1254 Oct 09 j 20:13	0°♂		max. Earth dist.	1259 Jul 11 j 01:26	20°♄56'53	2.64789 AU
	1254 Nov 18 j 15:45	0°♄			1259 Jul 25 j 03:42	0°♂	
	1254 Dec 27 j 00:40	0°♃		morning rise	1259 Aug 14 j 11:09	12°♂57'13	
evening set	1255 Jan 05 j 16:24	7°♃37'44			1259 Sep 10 j 09:03	0°♃	
	1255 Feb 03 j 00:08	0°♂			1259 Oct 28 j 02:56	0°♌	
	1255 Mar 13 j 13:01	0°♃			1259 Dec 15 j 13:42	0°♍	
					1260 Feb 04 j 00:50	0°♂	
conjunction	1255 Mar 14 j 12:58	0°♃45'55	0°-44'-25	desc. node	1260 Mar 19 j 06:32	23°♂28'51	
minimum elong	1255 Mar 14 j 16:03	0°♃51'50	0°44'23		1260 Apr 02 j 21:17	0°♄	
	1255 Apr 22 j 10:57	0°♄		retrograde	1260 May 20 j 08:54	11°♄21'23	
max. Earth dist.	1255 May 04 j 10:00	8°♄43'32	2.43953 AU	opposition	1260 Jun 20 j 12:33	5°♄58'12	-5°-9'-1
morning rise	1255 May 18 j 23:44	19°♄11'06		greatest brilliancy	1260 Jun 21 j 22:23	5°♄33'49	-2.7m
asc. node	1255 May 27 j 19:37	25°♄25'39		min. Earth dist.	1260 Jun 26 j 13:37	4°♄14'15	0.40149 AU
	1255 Jun 03 j 08:20	0°♌			1260 Jul 17 j 23:34	30°♃	
	1255 Jul 17 j 14:24	0°♄		direct	1260 Jul 23 j 10:16	29°♂47'41	
	1255 Sep 02 j 14:21	0°♂			1260 Jul 28 j 21:47	0°♄	
	1255 Oct 23 j 16:03	0°♃			1260 Oct 09 j 03:45	0°♃	
	1255 Dec 27 j 07:42	0°♌			1260 Nov 23 j 12:22	0°♂	
retrograde	1256 Feb 01 j 05:20	6°♄36'25			1261 Jan 05 j 16:46	0°♃	
	1256 Mar 05 j 01:45	30°♃		asc. node	1261 Jan 16 j 16:57	7°♃38'43	
opposition	1256 Mar 10 j 19:26	27°♃49'43	3°25'49		1261 Feb 18 j 05:24	0°♄	
greatest brilliancy	1256 Mar 11 j 15:03	27°♃30'45	-1.4m		1261 Apr 03 j 22:38	0°♌	
min. Earth dist.	1256 Mar 15 j 18:40	25°♃54'39	0.63320 AU		1261 May 19 j 22:58	0°♄	
direct	1256 Apr 21 j 03:58	17°♃50'30		evening set	1261 Jun 19 j 00:05	19°♄15'20	
	1256 Jun 09 j 07:13	0°♌			1261 Jul 05 j 20:47	0°♂	
desc. node	1256 Jun 14 j 08:35	2°♄14'39		max. Earth dist.	1261 Aug 02 j 11:44	17°♂34'13	2.67558 AU
	1256 Aug 03 j 15:38	0°♍					
	1256 Sep 17 j 05:14	0°♂		conjunction	1261 Aug 04 j 16:03	18°♂57'28	1°08'58
	1256 Oct 27 j 18:29	0°♄		minimum elong	1261 Aug 04 j 16:13	18°♂57'44	1°08'58
	1256 Dec 05 j 11:36	0°♃			1261 Aug 21 j 23:59	0°♃	
	1257 Jan 12 j 17:46	0°♂		morning rise	1261 Sep 18 j 05:19	17°♃25'55	
	1257 Feb 20 j 14:41	0°♃			1261 Oct 07 j 16:53	0°♌	
evening set	1257 Mar 15 j 10:40	17°♃09'14			1261 Nov 22 j 14:43	0°♂	
	1257 Apr 01 j 22:03	0°♄			1262 Jan 06 j 16:33	0°♂	
asc. node	1257 Apr 13 j 18:30	8°♄34'00		desc. node	1262 Feb 04 j 05:51	19°♂14'04	
					1262 Feb 20 j 03:41	0°♄	
conjunction	1257 May 13 j 22:51	29°♄51'21	0°18'31		1262 Apr 05 j 15:15	0°♃	
minimum elong	1257 May 13 j 21:49	29°♄49'34	0°18'30		1262 May 22 j 06:40	0°♂	
	1257 May 14 j 03:51	0°♌		retrograde	1262 Aug 07 j 15:06	29°♂43'03	
max. Earth dist.	1257 Jun 13 j 17:21	20°♌50'01	2.56644 AU	min. Earth dist.	1262 Sep 03 j 04:24	25°♂13'08	0.39566 AU
	1257 Jun 27 j 11:34	0°♄		greatest brilliancy	1262 Sep 08 j 01:25	23°♂46'34	-2.7m

opposition	1262 Sep 09 j 07:48	23° Υ 23'53	-5°-1'-42	desc. node	1267 Sep 27 j 02:59	0° \mathbb{M} 56'17	
direct	1262 Oct 09 j 13:19	18° Υ 00'10		evening set	1267 Oct 14 j 18:05	13° \mathbb{M} 20'24	
	1262 Nov 25 j 19:48	0° Υ		max. Earth dist.	1267 Oct 29 j 13:19	23° \mathbb{M} 59'19	2.44941 AU
asc. node	1262 Dec 04 j 15:41	4° Υ 02'19			1267 Nov 06 j 18:57	0° \mathcal{Z}	
	1263 Jan 21 j 12:32	0° \mathcal{Z}					
	1263 Mar 12 j 07:10	0° \mathbb{I}		conjunction	1267 Dec 08 j 03:52	23° \mathcal{Z} 26'46	0°-42'-8
	1263 Apr 29 j 22:23	0° \mathcal{E}		minimum elong	1267 Dec 08 j 01:45	23° \mathcal{Z} 22'46	0°42'07
	1263 Jun 17 j 05:02	0° \mathcal{Q}			1267 Dec 16 j 18:02	0° \mathcal{Z}	
evening set	1263 Jul 26 j 17:26	24° \mathcal{Q} 50'45			1268 Jan 24 j 09:40	0° \approx	
	1263 Aug 03 j 20:08	0° \mathbb{M}		greatest brilliancy	1268 Feb 04 j 21:38	9° \approx 01'33	1.2m
max. Earth dist.	1263 Aug 26 j 04:01	14° \mathbb{M} 18'33	2.64879 AU	morning rise	1268 Feb 08 j 21:18	12° \approx 09'35	
					1268 Mar 02 j 14:00	0° \mathcal{H}	
conjunction	1263 Sep 10 j 07:41	24° \mathbb{M} 08'25	0°52'44		1268 Apr 10 j 04:05	0° Υ	
minimum elong	1263 Sep 10 j 08:49	24° \mathbb{M} 10'16	0°52'44		1268 May 20 j 01:26	0° \mathcal{Z}	
	1263 Sep 19 j 06:37	0° \mathcal{Z}			1268 Jul 01 j 04:33	0° \mathbb{I}	
morning rise	1263 Oct 25 j 13:32	24° \mathcal{Z} 10'34		asc. node	1268 Jul 26 j 12:01	17° \mathbb{I} 00'05	
	1263 Nov 03 j 03:24	0° \mathbb{M}			1268 Aug 15 j 20:02	0° \mathcal{E}	
	1263 Dec 16 j 08:27	0° \mathcal{Z}			1268 Oct 07 j 18:06	0° \mathcal{Q}	
desc. node	1263 Dec 23 j 04:05	4° \mathcal{Z} 50'06		retrograde	1268 Dec 13 j 05:03	19° \mathcal{Q} 58'54	
	1264 Jan 27 j 01:46	0° \mathcal{Z}		opposition	1269 Jan 22 j 09:17	10° \mathcal{Q} 14'06	4°33'18
	1264 Mar 07 j 16:17	0° \approx		greatest brilliancy	1269 Jan 22 j 05:54	10° \mathcal{Q} 17'29	-1.2m
	1264 Apr 16 j 19:54	0° \mathcal{H}		min. Earth dist.	1269 Jan 21 j 23:43	10° \mathcal{Q} 23'40	0.67555 AU
	1264 May 27 j 17:15	0° Υ		direct	1269 Mar 03 j 23:56	0° \mathcal{Q} 28'56	
	1264 Jul 10 j 23:44	0° \mathcal{Z}			1269 May 30 j 15:42	0° \mathbb{M}	
	1264 Sep 12 j 14:14	0° \mathbb{I}			1269 Jul 21 j 10:41	0° \mathcal{Z}	
retrograde	1264 Sep 30 j 06:51	2° \mathbb{I} 08'11		desc. node	1269 Aug 14 j 01:32	15° \mathcal{Z} 07'17	
	1264 Oct 17 j 09:30	30° \mathcal{R} \mathcal{Z}			1269 Sep 05 j 05:27	0° \mathbb{M}	
asc. node	1264 Oct 21 j 15:29	28° \mathcal{Z} 50'29			1269 Oct 17 j 10:08	0° \mathcal{Z}	
min. Earth dist.	1264 Oct 30 j 17:54	25° \mathcal{Z} 45'59	0.51946 AU		1269 Nov 26 j 05:04	0° \mathcal{Z}	
opposition	1264 Nov 07 j 09:19	22° \mathcal{Z} 53'31	0°50'11	evening set	1269 Dec 09 j 12:00	10° \mathcal{Z} 18'00	
greatest brilliancy	1264 Nov 06 j 23:51	23° \mathcal{Z} 02'25	-2.0m		1270 Jan 03 j 14:30	0° \approx	
direct	1264 Dec 12 j 04:48	15° \mathcal{Z} 15'59			1270 Feb 10 j 13:58	0° \mathcal{H}	
	1265 Feb 05 j 21:45	0° \mathbb{I}					
	1265 Apr 05 j 13:19	0° \mathcal{E}		conjunction	1270 Feb 13 j 16:00	2° \mathcal{H} 25'41	-1°-1'-28
	1265 May 27 j 05:24	0° \mathcal{Q}		minimum elong	1270 Feb 13 j 18:02	2° \mathcal{H} 29'41	1°01'29
	1265 Jul 15 j 05:12	0° \mathbb{M}			1270 Mar 21 j 01:37	0° Υ	
	1265 Aug 30 j 23:28	0° \mathcal{Z}		max. Earth dist.	1270 Mar 30 j 09:28	7° Υ 08'25	2.38774 AU
evening set	1265 Sep 01 j 12:48	1° \mathcal{Z} 01'23		morning rise	1270 Apr 24 j 08:28	25° Υ 54'36	
max. Earth dist.	1265 Sep 20 j 17:34	13° \mathcal{Z} 48'14	2.57005 AU		1270 Apr 29 j 21:16	0° \mathcal{Z}	
	1265 Oct 14 j 11:27	0° \mathbb{M}			1270 Jun 10 j 17:02	0° \mathbb{I}	
				asc. node	1270 Jun 13 j 11:55	1° \mathbb{I} 56'26	
conjunction	1265 Oct 19 j 03:34	3° \mathbb{M} 14'20	0°12'36		1270 Jul 25 j 01:36	0° \mathcal{E}	
minimum elong	1265 Oct 19 j 04:05	3° \mathbb{M} 15'14	0°12'36		1270 Sep 10 j 17:25	0° \mathcal{Q}	
behind sun begin	1265 Oct 18 j 14:58	2° \mathbb{M} 52'28			1270 Nov 03 j 12:52	0° \mathbb{M}	
behind sun end	1265 Oct 19 j 17:11	3° \mathbb{M} 38'00		retrograde	1271 Jan 17 j 09:45	23° \mathbb{M} 18'45	
desc. node	1265 Nov 09 j 03:39	18° \mathbb{M} 01'03		opposition	1271 Feb 25 j 16:12	14° \mathbb{M} 11'04	4°01'16
	1265 Nov 25 j 19:49	0° \mathcal{Z}		greatest brilliancy	1271 Feb 26 j 07:13	13° \mathbb{M} 56'22	-1.3m
morning rise	1265 Dec 08 j 08:52	9° \mathcal{Z} 09'25		min. Earth dist.	1271 Mar 01 j 03:55	12° \mathbb{M} 49'08	0.65792 AU
	1266 Jan 05 j 08:49	0° \mathcal{Z}		direct	1271 Apr 08 j 03:31	4° \mathbb{M} 09'02	
	1266 Feb 13 j 15:41	0° \approx			1271 Jun 25 j 09:12	0° \mathcal{Z}	
	1266 Mar 24 j 09:42	0° \mathcal{H}		desc. node	1271 Jul 01 j 23:56	3° \mathcal{Z} 36'16	
	1266 May 02 j 12:13	0° Υ			1271 Aug 14 j 08:48	0° \mathbb{M}	
	1266 Jun 12 j 02:48	0° \mathcal{Z}			1271 Sep 26 j 18:22	0° \mathcal{Z}	
	1266 Jul 26 j 00:18	0° \mathbb{I}			1271 Nov 05 j 21:59	0° \mathcal{Z}	
asc. node	1266 Sep 08 j 14:11	26° \mathbb{I} 04'49			1271 Dec 14 j 10:19	0° \approx	
	1266 Sep 16 j 12:59	0° \mathcal{E}			1272 Jan 21 j 12:38	0° \mathcal{H}	
retrograde	1266 Nov 09 j 07:22	14° \mathcal{E} 57'31		evening set	1272 Feb 18 j 13:16	21° \mathcal{H} 49'00	
min. Earth dist.	1266 Dec 14 j 23:49	6° \mathcal{E} 42'24	0.62726 AU		1272 Feb 29 j 05:12	0° Υ	
greatest brilliancy	1266 Dec 18 j 10:45	5° \mathcal{E} 19'42	-1.5m		1272 Apr 09 j 07:27	0° \mathcal{Z}	
opposition	1266 Dec 19 j 06:08	5° \mathcal{E} 00'20	3°41'56				
	1267 Jan 01 j 20:10	30° \mathcal{R} \mathbb{I}		conjunction	1272 Apr 22 j 08:58	9° \mathcal{Z} 28'58	0°-5'-10
direct	1267 Jan 26 j 15:37	25° \mathbb{I} 59'38		minimum elong	1272 Apr 22 j 09:18	9° \mathcal{Z} 29'35	0°05'10
	1267 Feb 22 j 20:20	0° \mathcal{E}		behind sun begin	1272 Apr 21 j 09:01	8° \mathcal{Z} 45'49	
	1267 May 03 j 09:00	0° \mathcal{Q}		behind sun end	1272 Apr 23 j 09:36	10° \mathcal{Z} 13'17	
	1267 Jun 25 j 02:37	0° \mathbb{M}		asc. node	1272 Apr 30 j 11:42	15° \mathcal{Z} 18'02	
	1267 Aug 12 j 02:04	0° \mathcal{Z}			1272 May 21 j 08:25	0° \mathbb{I}	
	1267 Sep 25 j 18:33	0° \mathbb{M}		max. Earth dist.	1272 May 31 j 11:02	6° \mathbb{I} 59'42	2.52075 AU

morning rise	1272 Jun 18 j 23:05	19° II 35'06		asc. node	1277 Dec 21 j 08:06	2° V 50'40	
	1272 Jul 04 j 13:21	0° S			1278 Feb 02 j 10:10	0° R	
	1272 Aug 19 j 23:00	0° Q			1278 Mar 21 j 08:49	0° II	
	1272 Oct 07 j 19:17	0° M			1278 May 07 j 15:59	0° S	
	1272 Nov 29 j 23:58	0° L			1278 Jun 24 j 06:39	0° Q	
retrograde	1273 Feb 26 j 04:59	29° L 46'12		evening set	1278 Jul 12 j 07:09	11° Q 22'17	
opposition	1273 Apr 04 j 06:36	21° L 42'19	1°55'09		1278 Aug 10 j 15:31	0° M	
greatest brilliancy	1273 Apr 05 j 00:48	21° L 25'21	-1.7m	max. Earth dist.	1278 Aug 16 j 20:42	3° M 58'16	2.66591 AU
min. Earth dist.	1273 Apr 11 j 08:52	19° L 03'48	0.57575 AU				
direct	1273 May 14 j 18:33	12° L 04'30		conjunction	1278 Aug 26 j 22:57	10° M 26'38	1°02'00
desc. node	1273 May 18 j 22:54	12° L 11'24		minimum elong	1278 Aug 26 j 23:51	10° M 28'04	1°02'00
	1273 Jul 13 j 10:13	0° M			1278 Sep 26 j 03:13	0° L	
	1273 Sep 01 j 04:53	0° J		morning rise	1278 Oct 10 j 12:28	9° L 26'53	
	1273 Oct 13 j 07:11	0° Z			1278 Nov 10 j 07:50	0° M	
	1273 Nov 21 j 17:38	0° X			1278 Dec 24 j 02:31	0° J	
	1273 Dec 30 j 11:57	0° K		desc. node	1279 Jan 08 j 20:59	11° J 02'07	
	1274 Feb 07 j 19:59	0° V			1279 Feb 04 j 14:27	0° Z	
asc. node	1274 Mar 18 j 09:46	28° V 25'42			1279 Mar 18 j 03:35	0° X	
	1274 Mar 20 j 14:05	0° R			1279 Apr 28 j 11:59	0° K	
evening set	1274 Apr 19 j 07:13	21° R 03'06			1279 Jun 10 j 10:28	0° V	
	1274 May 02 j 05:32	0° II			1279 Jul 31 j 18:26	0° R	
				retrograde	1279 Sep 12 j 13:14	11° R 13'45	
conjunction	1274 Jun 11 j 23:33	27° II 28'13	0°46'49	min. Earth dist.	1279 Oct 10 j 21:44	5° R 42'48	0.46749 AU
minimum elong	1274 Jun 11 j 22:00	27° II 25'39	0°46'48	opposition	1279 Oct 19 j 02:56	2° R 48'26	-1°-6'-45
	1274 Jun 15 j 19:27	0° S		greatest brilliancy	1279 Oct 18 j 14:47	2° R 59'11	-2.3m
max. Earth dist.	1274 Jul 01 j 04:25	10° S 04'56	2.62233 AU		1279 Oct 27 j 12:04	30° R V	
morning rise	1274 Jul 30 j 23:11	29° S 19'05		asc. node	1279 Nov 08 j 06:30	27° V 05'57	
	1274 Aug 01 j 00:45	0° Q		direct	1279 Nov 21 j 02:00	25° V 59'02	
	1274 Sep 17 j 11:10	0° M			1279 Dec 17 j 09:02	0° R	
	1274 Nov 04 j 23:45	0° L			1280 Feb 22 j 10:14	0° II	
	1274 Dec 25 j 11:04	0° M			1280 Apr 15 j 00:36	0° S	
	1275 Feb 20 j 07:48	0° J			1280 Jun 03 j 22:54	0° Q	
desc. node	1275 Apr 05 j 21:43	15° J 23'06			1280 Jul 22 j 06:43	0° M	
retrograde	1275 Apr 22 j 16:35	17° J 01'03		evening set	1280 Aug 17 j 12:45	16° M 45'27	
opposition	1275 May 25 j 17:13	10° J 46'23	-2°-42'-55		1280 Sep 06 j 20:33	0° L	
greatest brilliancy	1275 May 26 j 21:01	10° J 23'55	-2.4m	max. Earth dist.	1280 Sep 09 j 18:20	1° L 54'51	2.60698 AU
min. Earth dist.	1275 Jun 02 j 20:05	8° J 09'55	0.44748 AU				
direct	1275 Jun 30 j 17:29	3° J 11'23		conjunction	1280 Oct 02 j 21:35	17° L 20'57	0°30'46
	1275 Sep 10 j 18:56	0° Z		minimum elong	1280 Oct 02 j 22:36	17° L 22'40	0°30'46
	1275 Oct 25 j 17:53	0° X			1280 Oct 21 j 11:08	0° M	
	1275 Dec 06 j 05:39	0° K		morning rise	1280 Nov 19 j 11:03	20° M 15'29	
	1276 Jan 16 j 11:47	0° V		desc. node	1280 Nov 25 j 19:28	24° M 46'41	
asc. node	1276 Feb 03 j 08:43	12° V 48'04			1280 Dec 03 j 02:24	0° J	
	1276 Feb 27 j 18:43	0° R			1281 Jan 13 j 00:48	0° Z	
	1276 Apr 11 j 15:38	0° II			1281 Feb 21 j 17:30	0° X	
	1276 May 27 j 02:28	0° S			1281 Apr 01 j 20:51	0° K	
evening set	1276 Jun 03 j 09:04	4° S 43'15			1281 May 11 j 09:23	0° V	
	1276 Jul 12 j 17:03	0° Q			1281 Jun 21 j 16:30	0° R	
					1281 Aug 06 j 14:05	0° II	
conjunction	1276 Jul 21 j 06:17	5° Q 27'29	1°08'18	asc. node	1281 Sep 25 j 05:47	24° II 14'56	
minimum elong	1276 Jul 21 j 05:53	5° Q 26'51	1°08'18	retrograde	1281 Oct 25 j 18:26	29° II 54'20	
max. Earth dist.	1276 Jul 24 j 12:47	7° Q 32'35	2.67129 AU	min. Earth dist.	1281 Nov 28 j 12:35	22° II 18'59	0.59116 AU
	1276 Aug 28 j 19:24	0° M		greatest brilliancy	1281 Dec 03 j 08:39	20° II 24'34	-1.6m
morning rise	1276 Sep 04 j 09:21	4° M 11'27		opposition	1281 Dec 04 j 05:48	20° II 03'40	2°53'51
	1276 Oct 14 j 19:13	0° L		direct	1282 Jan 10 j 09:46	11° II 29'35	
	1276 Nov 30 j 10:20	0° M			1282 Mar 16 j 13:51	0° S	
	1277 Jan 15 j 20:23	0° J			1282 May 13 j 02:47	0° Q	
desc. node	1277 Feb 20 j 21:28	23° J 08'35			1282 Jul 02 j 21:43	0° M	
	1277 Mar 03 j 16:53	0° Z			1282 Aug 19 j 06:39	0° L	
	1277 Apr 22 j 03:30	0° X		evening set	1282 Sep 26 j 21:23	25° L 53'16	
retrograde	1277 Jul 09 j 14:48	28° X 34'43			1282 Oct 02 j 20:17	0° M	
min. Earth dist.	1277 Aug 07 j 09:53	23° X 53'03	0.37409 AU	max. Earth dist.	1282 Oct 11 j 18:54	6° M 14'13	2.50019 AU
opposition	1277 Aug 09 j 03:53	23° X 24'59	-6°-46'-20	desc. node	1282 Oct 13 j 18:11	7° M 37'14	
greatest brilliancy	1277 Aug 08 j 19:04	23° X 30'53	-2.9m		1282 Nov 13 j 23:00	0° J	
direct	1277 Sep 07 j 15:54	18° X 30'13					
	1277 Oct 22 j 22:26	0° K		conjunction	1282 Nov 16 j 20:41	2° J 07'31	0°-20'-49
	1277 Dec 16 j 16:38	0° V		minimum elong	1282 Nov 16 j 19:38	2° J 05'36	0°20'50

	1282 Dec 24 j 02:52	0°☾		retrograde	1288 Feb 10 j 06:00	15°♁02'29	
morning rise	1283 Jan 12 j 15:19	14°☾58'41		opposition	1288 Mar 19 j 08:32	6°♁29'37	2°57'45
	1283 Jan 31 j 23:37	0°♁		greatest brilliancy	1288 Mar 20 j 05:10	6°♁09'54	-1.5m
	1283 Mar 11 j 08:12	0°♁		min. Earth dist.	1288 Mar 25 j 03:06	4°♁17'18	0.61507 AU
	1283 Apr 19 j 01:34	0°♁			1288 Apr 06 j 15:11	30°♁	
	1283 May 29 j 02:30	0°♁		direct	1288 Apr 29 j 12:05	26°♁35'12	
asc. node	1283 Jul 10 j 14:21	0°♁			1288 May 23 j 16:08	0°♁	
	1283 Aug 13 j 05:34	21°♁55'16		desc. node	1288 Jun 04 j 14:12	3°♁44'03	
	1283 Aug 26 j 12:08	0°♁			1288 Jul 27 j 13:05	0°♁	
retrograde	1283 Oct 26 j 02:25	0°♁			1288 Sep 11 j 08:37	0°♁	
	1283 Nov 30 j 21:06	7°♁00'54			1288 Oct 22 j 08:33	0°♁	
min. Earth dist.	1284 Jan 02 j 20:09	30°♁			1288 Nov 30 j 06:48	0°♁	
	1284 Jan 08 j 04:26	27°♁53'46	0.66422 AU		1289 Jan 07 j 16:27	0°♁	
opposition	1284 Jan 10 j 02:24	27°♁07'42	4°24'14		1289 Feb 15 j 16:26	0°♁	
greatest brilliancy	1284 Jan 09 j 15:40	27°♁18'28	-1.3m	evening set	1289 Mar 28 j 18:51	0°♁29'47	
direct	1284 Feb 18 j 23:45	17°♁36'30			1289 Mar 28 j 02:26	0°♁	
	1284 Apr 10 j 16:58	0°♁		asc. node	1289 Apr 04 j 02:43	5°♁04'14	
	1284 Jun 09 j 18:17	0°♁			1289 May 09 j 10:24	0°♁	
	1284 Jul 29 j 12:25	0°♁					
	1284 Aug 30 j 17:16	21°♁06'53		conjunction	1289 May 25 j 00:17	10°♁41'26	0°30'10
desc. node	1284 Sep 12 j 17:46	0°♁		minimum elong	1289 May 24 j 22:52	10°♁39'00	0°30'10
	1284 Oct 24 j 19:25	0°♁		max. Earth dist.	1289 Jun 20 j 09:41	28°♁25'01	2.58843 AU
	1284 Nov 15 j 05:11	15°♁57'32			1289 Jun 22 j 19:01	0°♁	
evening set	1284 Dec 03 j 15:09	0°♁		morning rise	1289 Jul 15 j 15:44	14°♁59'01	
max. Earth dist.	1284 Dec 21 j 21:45	14°♁09'59	2.37774 AU		1289 Aug 07 j 23:45	0°♁	
	1285 Jan 11 j 02:13	0°♁			1289 Sep 24 j 18:44	0°♁	
conjunction	1285 Jan 15 j 21:55	3°♁47'58	-1°-4'-2		1289 Nov 13 j 11:27	0°♁	
minimum elong	1285 Jan 15 j 20:57	3°♁46'05	1°04'03	retrograde	1290 Jan 06 j 12:29	0°♁	
	1285 Feb 18 j 02:43	0°♁		desc. node	1290 Mar 29 j 11:12	26°♁41'34	
morning rise	1285 Mar 27 j 01:27	28°♁48'54		opposition	1290 Apr 22 j 14:14	23°♁04'32	
	1285 Mar 28 j 14:24	0°♁		greatest brilliancy	1290 May 03 j 06:21	19°♁37'54	0°-32'-18
	1285 May 07 j 09:23	0°♁		min. Earth dist.	1290 May 03 j 12:54	19°♁32'13	-2.1m
asc. node	1285 Jun 07 j 09:23	0°♁		direct	1290 May 11 j 16:00	16°♁42'34	0.49977 AU
	1285 Jun 18 j 05:38	0°♁			1290 Jun 10 j 15:01	10°♁57'14	
	1285 Jun 30 j 04:00	8°♁13'54			1290 Aug 09 j 07:01	0°♁	
	1285 Aug 01 j 20:40	0°♁			1290 Sep 25 j 20:51	0°♁	
	1285 Sep 19 j 15:28	0°♁			1290 Nov 06 j 05:58	0°♁	
retrograde	1285 Nov 18 j 08:56	0°♁			1290 Dec 16 j 03:24	0°♁	
	1286 Jan 03 j 09:37	10°♁26'49		asc. node	1291 Jan 25 j 08:30	0°♁	
opposition	1286 Feb 12 j 03:40	1°♁02'04	4°23'10		1291 Feb 20 j 00:25	18°♁41'22	
greatest brilliancy	1286 Feb 12 j 12:05	0°♁53'45	-1.2m		1291 Mar 07 j 20:32	0°♁	
min. Earth dist.	1286 Feb 14 j 03:05	0°♁15'11	0.67268 AU	evening set	1291 Apr 20 j 02:53	0°♁	
direct	1286 Feb 14 j 18:28	30°♁			1291 May 18 j 16:30	19°♁09'29	
	1286 Mar 25 j 10:51	21°♁03'11			1291 Jun 04 j 03:26	0°♁	
desc. node	1286 May 06 j 19:03	0°♁		conjunction	1291 Jul 07 j 07:57	21°♁31'56	1°03'29
	1286 Jul 06 j 10:29	0°♁		minimum elong	1291 Jul 07 j 06:59	21°♁30'23	1°03'28
	1286 Jul 18 j 15:58	7°♁17'37		max. Earth dist.	1291 Jul 16 j 12:28	27°♁25'54	2.65863 AU
	1286 Aug 23 j 01:44	0°♁			1291 Jul 20 j 12:42	0°♁	
	1286 Oct 04 j 19:49	0°♁		morning rise	1291 Aug 22 j 12:30	21°♁01'28	
evening set	1286 Nov 13 j 18:22	0°♁			1291 Sep 05 j 16:04	0°♁	
	1286 Dec 22 j 04:19	0°♁			1291 Oct 23 j 02:15	0°♁	
greatest brilliancy	1287 Jan 21 j 13:56	24°♁00'51			1291 Dec 09 j 18:17	0°♁	
conjunction	1287 Jan 29 j 10:44	0°♁12'43	1.2m		1292 Jan 27 j 07:57	0°♁	
	1287 Jan 29 j 04:16	0°♁		desc. node	1292 Mar 09 j 13:40	24°♁42'41	
	1287 Mar 08 j 17:40	0°♁			1292 Mar 19 j 05:21	0°♁	
minimum elong	1287 Mar 29 j 18:29	15°♁57'53	0°-30'-48	retrograde	1292 Jun 07 j 06:42	27°♁31'46	
max. Earth dist.	1287 Mar 29 j 20:51	16°♁02'19	0°30'46	opposition	1292 Jul 07 j 13:43	22°♁28'47	-6°-16'-54
	1287 Apr 17 j 15:59	0°♁		greatest brilliancy	1292 Jul 08 j 15:04	22°♁11'30	-2.8m
asc. node	1287 May 16 j 04:18	20°♁35'20	2.46930 AU	min. Earth dist.	1292 Jul 11 j 08:49	21°♁26'45	0.38363 AU
morning rise	1287 May 18 j 03:07	21°♁58'19		direct	1292 Aug 07 j 21:23	17°♁00'03	
	1287 May 29 j 13:20	0°♁			1292 Sep 24 j 04:33	0°♁	
	1287 May 31 j 08:21	1°♁14'56			1292 Nov 14 j 17:42	0°♁	
	1287 Jul 12 j 17:29	0°♁		asc. node	1292 Dec 29 j 20:34	0°♁	
	1287 Aug 28 j 09:59	0°♁			1293 Jan 06 j 23:14	5°♁28'31	
	1287 Oct 17 j 09:59	0°♁			1293 Feb 12 j 09:16	0°♁	
	1287 Dec 14 j 12:43	0°♁			1293 Mar 29 j 16:52	0°♁	

	1293 May 15 j 02:02	0°♄			1297 Dec 31 j 13:29	0°♄		
evening set	1293 Jun 27 j 15:38	27°♄44'36			1298 Feb 08 j 16:37	0°♁		
	1293 Jul 01 j 04:59	0°♃			1298 Mar 19 j 06:36	0°♁		
max. Earth dist.	1293 Aug 07 j 17:10	23°♃49'24	2.67451 AU		1298 Apr 27 j 04:42	0°♁		
					1298 Jun 06 j 12:09	0°♁		
conjunction	1293 Aug 12 j 19:45	27°♃04'40	1°07'31		1298 Jul 19 j 16:10	0°♁		
minimum elong	1293 Aug 12 j 20:13	27°♃05'24	1°07'31	asc. node	1298 Aug 29 j 20:46	25°♁26'40		
	1293 Aug 17 j 09:43	0°♁			1298 Sep 07 j 02:37	0°♄		
morning rise	1293 Sep 26 j 05:38	25°♁35'49		retrograde	1298 Nov 17 j 08:10	23°♄30'59		
	1293 Oct 03 j 00:27	0°♁		min. Earth dist.	1298 Dec 24 j 00:00	14°♄55'52	0.64314 AU	
	1293 Nov 17 j 15:30	0°♁		opposition	1298 Dec 27 j 10:11	13°♄33'34	4°02'01	
	1294 Jan 01 j 04:37	0°♁		greatest brilliancy	1298 Dec 26 j 17:15	13°♄50'32	-1.4m	
desc. node	1294 Jan 25 j 12:15	16°♁39'26		direct	1299 Feb 04 j 09:29	4°♄20'35		
	1294 Feb 13 j 19:36	0°♄			1299 Apr 26 j 01:00	0°♃		
	1294 Mar 28 j 22:11	0°♁			1299 Jun 19 j 14:51	0°♁		
	1294 May 11 j 17:22	0°♁			1299 Aug 07 j 03:40	0°♁		
	1294 Jun 29 j 22:15	0°♁		desc. node	1299 Sep 17 j 08:42	27°♁28'00		
retrograde	1294 Aug 21 j 15:47	16°♁10'00			1299 Sep 21 j 00:48	0°♁		
min. Earth dist.	1294 Sep 17 j 11:42	11°♁24'09	0.41779 AU	evening set	1299 Oct 25 j 19:58	24°♁42'06		
opposition	1294 Sep 24 j 22:09	9°♁01'30	-3°-35'-4		1299 Nov 02 j 01:58	0°♁		
greatest brilliancy	1294 Sep 23 j 16:39	9°♁25'12	-2.6m	max. Earth dist.	1299 Nov 12 j 09:24	7°♁37'00	2.42124 AU	
direct	1294 Oct 26 j 00:00	3°♁08'03			1299 Dec 12 j 00:16	0°♄		
asc. node	1294 Nov 24 j 23:38	8°♁22'37						
	1295 Jan 12 j 06:47	0°♁		conjunction	1299 Dec 21 j 14:36	7°♄23'21	0°-52'-40	
	1295 Mar 05 j 21:27	0°♁		minimum elong	1299 Dec 21 j 12:18	7°♄18'55	0°52'39	
	1295 Apr 24 j 13:56	0°♄			1300 Jan 19 j 14:29	0°♁		
	1295 Jun 12 j 08:28	0°♃		morning rise	1300 Feb 25 j 15:10	29°♁08'41		
	1295 Jul 30 j 04:55	0°♁			1300 Feb 26 j 17:17	0°♁		
evening set	1295 Aug 03 j 23:50	3°♁02'38			1300 Apr 05 j 06:00	0°♁		
max. Earth dist.	1295 Aug 31 j 18:06	20°♁53'37	2.63613 AU		1300 May 15 j 01:28	0°♁		
	1295 Sep 14 j 16:41	0°♁			1300 Jun 26 j 00:07	0°♁		
				asc. node	1300 Jul 16 j 20:28	14°♁11'03		
conjunction	1295 Sep 18 j 17:17	2°♁38'55	0°45'40		1300 Aug 10 j 02:52	0°♄		
minimum elong	1295 Sep 18 j 18:27	2°♁40'51	0°45'40		1300 Sep 29 j 21:28	0°♃		
	1295 Oct 29 j 11:23	0°♁		retrograde	1300 Dec 20 j 20:55	27°♃44'38		
morning rise	1295 Nov 03 j 13:51	3°♁29'51		opposition	1301 Jan 29 j 22:35	18°♃06'03	4°33'00	
	1295 Dec 11 j 11:18	0°♁		greatest brilliancy	1301 Jan 29 j 23:30	18°♃05'08	-1.2m	
desc. node	1295 Dec 13 j 11:01	1°♁24'58		min. Earth dist.	1301 Jan 30 j 09:29	17°♃55'11	0.67734 AU	
	1296 Jan 21 j 21:18	0°♄		direct	1301 Mar 11 j 20:21	8°♃14'46		
	1296 Mar 02 j 02:55	0°♁			1301 May 22 j 22:38	0°♁		
	1296 Apr 10 j 19:51	0°♁			1301 Jul 15 j 19:32	0°♁		
	1296 May 21 j 01:31	0°♁		desc. node	1301 Aug 04 j 08:04	12°♁14'27		
	1296 Jul 02 j 18:09	0°♁			1301 Aug 31 j 03:55	0°♁		
	1296 Aug 23 j 00:52	0°♁			1301 Oct 12 j 12:59	0°♁		
retrograde	1296 Oct 10 j 00:24	13°♁07'06			1301 Nov 21 j 09:09	0°♄		
asc. node	1296 Oct 11 j 22:36	13°♁05'31		evening set	1301 Dec 24 j 13:57	25°♄54'12		
min. Earth dist.	1296 Nov 10 j 16:19	6°♁17'05	0.54689 AU		1301 Dec 29 j 18:38	0°♁		
opposition	1296 Nov 17 j 16:53	3°♁34'58	1°43'16		1302 Feb 05 j 17:50	0°♁		
greatest brilliancy	1296 Nov 17 j 00:13	3°♁51'02	-1.9m					
	1296 Nov 27 j 13:38	30°♁		conjunction	1302 Mar 02 j 03:52	19°♁07'21	0°-53'-11	
direct	1296 Dec 23 j 10:15	25°♁34'44		minimum elong	1302 Mar 02 j 06:55	19°♁13'17	0°53'11	
	1297 Jan 20 j 14:10	0°♁			1302 Mar 16 j 05:34	0°♁		
	1297 Mar 29 j 14:34	0°♄		max. Earth dist.	1302 Apr 22 j 16:38	28°♁15'19	2.41540 AU	
	1297 May 21 j 19:17	0°♃			1302 Apr 25 j 01:23	0°♁		
	1297 Jul 10 j 08:20	0°♁		morning rise	1302 May 08 j 18:20	10°♁00'48		
	1297 Aug 26 j 07:42	0°♁		asc. node	1302 Jun 03 j 19:06	28°♁33'36		
evening set	1297 Sep 10 j 10:56	10°♁00'48			1302 Jun 05 j 20:31	0°♁		
max. Earth dist.	1297 Sep 27 j 19:31	21°♁43'30	2.54698 AU		1302 Jul 20 j 01:53	0°♄		
	1297 Oct 09 j 20:45	0°♁			1302 Sep 05 j 05:54	0°♃		
					1302 Oct 27 j 03:45	0°♁		
conjunction	1297 Oct 29 j 00:38	13°♁24'40	0°00'52		1303 Jan 10 j 15:37	0°♁		
minimum elong	1297 Oct 29 j 00:40	13°♁24'43	0°00'52	retrograde	1303 Jan 25 j 18:21	1°♁19'02		
behind sun begin	1297 Oct 28 j 03:39	12°♁47'34			1303 Feb 09 j 04:28	30°♁		
behind sun end	1297 Oct 29 j 21:41	14°♁01'54		opposition	1303 Mar 05 j 16:17	22°♁22'29	3°42'08	
desc. node	1297 Oct 30 j 10:01	14°♁23'46		greatest brilliancy	1303 Mar 06 j 10:10	22°♁05'06	-1.3m	
	1297 Nov 21 j 03:30	0°♁		min. Earth dist.	1303 Mar 10 j 00:02	20°♁41'39	0.64553 AU	
morning rise	1297 Dec 20 j 04:14	21°♁25'52		direct	1303 Apr 16 j 02:47	12°♁20'59		

	1303 Jun 16 j 16:04	0°♌			1308 May 22 j 07:46	0°♄		
desc. node	1303 Jun 22 j 07:05	2°♌46'59		evening set	1308 Jun 12 j 10:32	13°♄36'31		
	1303 Aug 08 j 07:41	0°♍			1308 Jul 08 j 01:39	0°♌		
	1303 Sep 21 j 09:23	0°♎						
	1303 Oct 31 j 19:04	0°♏		conjunction	1308 Jul 29 j 14:02	13°♌42'18	1°09'10	
	1303 Dec 09 j 10:09	0°♐		minimum elong	1308 Jul 29 j 13:59	13°♌42'13	1°09'09	
	1304 Jan 16 j 14:03	0°♑		max. Earth dist.	1308 Jul 29 j 19:27	13°♌50'55	2.67467 AU	
	1304 Feb 24 j 08:07	0°♒			1308 Aug 24 j 04:09	0°♑		
evening set	1304 Mar 04 j 12:55	6°♒59'04		morning rise	1308 Sep 12 j 07:51	12°♑13'47		
	1304 Apr 04 j 11:56	0°♓			1308 Oct 10 j 00:13	0°♑		
asc. node	1304 Apr 20 j 17:36	11°♓44'57			1308 Nov 25 j 05:32	0°♒		
					1309 Jan 09 j 20:33	0°♑		
conjunction	1304 May 04 j 23:42	21°♓52'46	0°08'57	desc. node	1309 Feb 11 j 04:14	21°♑22'42		
minimum elong	1304 May 04 j 23:08	21°♓51'47	0°08'56		1309 Feb 24 j 05:27	0°♏		
behind sun begin	1304 May 04 j 02:48	21°♓15'57			1309 Apr 11 j 07:03	0°♐		
behind sun end	1304 May 05 j 19:29	22°♓27'35			1309 Jun 01 j 06:06	0°♑		
	1304 May 16 j 14:06	0°♒		retrograde	1309 Jul 26 j 15:00	16°♑48'24		
max. Earth dist.	1304 Jun 08 j 08:31	15°♒37'41	2.54694 AU	min. Earth dist.	1309 Aug 22 j 16:11	12°♑21'08	0.38241 AU	
morning rise	1304 Jun 29 j 04:06	29°♒34'58		greatest brilliancy	1309 Aug 26 j 03:15	11°♑23'07	-2.8m	
	1304 Jun 29 j 19:13	0°♓		opposition	1309 Aug 27 j 03:19	11°♑06'13	-5°-59'-28	
	1304 Aug 15 j 01:33	0°♌		direct	1309 Sep 25 j 19:33	6°♑01'30		
	1304 Oct 02 j 09:53	0°♍			1309 Dec 05 j 21:38	0°♒		
	1304 Nov 22 j 22:24	0°♎		asc. node	1309 Dec 11 j 15:02	3°♒07'19		
	1305 Jan 24 j 05:15	0°♏			1310 Jan 26 j 06:34	0°♑		
retrograde	1305 Mar 08 j 18:49	9°♏16'25			1310 Mar 15 j 13:56	0°♒		
opposition	1305 Apr 14 j 03:05	1°♏31'41	1°08'40		1310 May 02 j 13:19	0°♓		
greatest brilliancy	1305 Apr 14 j 15:51	1°♏20'00	-1.8m		1310 Jun 19 j 12:20	0°♌		
	1305 Apr 18 j 06:56	30°♒♌		evening set	1310 Jul 20 j 14:09	19°♌33'49		
min. Earth dist.	1305 Apr 21 j 19:32	28°♌43'04	0.55054 AU		1310 Aug 06 j 00:42	0°♍		
desc. node	1305 May 09 j 05:26	23°♌38'14		max. Earth dist.	1310 Aug 22 j 06:19	10°♍23'01	2.65746 AU	
direct	1305 May 24 j 00:44	22°♌08'52						
	1305 Jun 29 j 21:43	0°♍		conjunction	1310 Sep 04 j 03:46	18°♍42'00	0°57'03	
	1305 Aug 24 j 20:38	0°♎		minimum elong	1310 Sep 04 j 04:49	18°♍43'42	0°57'01	
	1305 Oct 07 j 03:35	0°♏			1310 Sep 21 j 12:19	0°♎		
	1305 Nov 16 j 02:07	0°♐		morning rise	1310 Oct 19 j 00:36	18°♎12'09		
	1305 Dec 25 j 03:28	0°♑			1310 Nov 05 j 13:12	0°♏		
	1306 Feb 02 j 16:54	0°♒			1310 Dec 19 j 00:51	0°♑		
asc. node	1306 Mar 08 j 17:10	25°♒00'36		desc. node	1310 Dec 30 j 02:28	7°♑48'10		
	1306 Mar 15 j 15:30	0°♓			1311 Jan 30 j 02:34	0°♏		
	1306 Apr 27 j 10:28	0°♒			1311 Mar 12 j 02:40	0°♐		
evening set	1306 Apr 30 j 11:56	2°♒05'40			1311 Apr 21 j 17:02	0°♑		
	1306 Jun 11 j 02:51	0°♓			1311 Jun 02 j 06:27	0°♒		
					1311 Jul 18 j 07:19	0°♑		
conjunction	1306 Jun 21 j 13:16	6°♓50'56	0°54'16	retrograde	1311 Sep 23 j 13:01	23°♑56'05		
minimum elong	1306 Jun 21 j 11:52	6°♓48'37	0°54'16	min. Earth dist.	1311 Oct 23 j 00:05	17°♑56'53	0.49637 AU	
max. Earth dist.	1306 Jul 07 j 01:12	16°♓55'45	2.63751 AU	asc. node	1311 Oct 29 j 14:29	15°♑31'37		
	1306 Jul 27 j 08:26	0°♌		opposition	1311 Oct 31 j 00:15	15°♑00'30	0°04'26	
morning rise	1306 Aug 08 j 08:52	7°♌40'36		greatest brilliancy	1312 Nov 04 j 06:15	12°♌49'46	-6.2m	
	1306 Sep 12 j 15:13	0°♍		direct	1311 Dec 04 j 01:08	7°♑43'15		
	1306 Oct 30 j 16:17	0°♎			1312 Feb 13 j 11:50	0°♒		
	1306 Dec 18 j 20:58	0°♏			1312 Apr 08 j 23:13	0°♑		
	1307 Feb 09 j 08:17	0°♐			1312 May 29 j 19:47	0°♒		
desc. node	1307 Mar 27 j 04:45	21°♑34'48			1312 Jul 17 j 12:48	0°♑		
	1307 Apr 27 j 23:46	0°♏		evening set	1312 Aug 26 j 00:52	25°♑16'37		
retrograde	1307 May 08 j 05:44	0°♐37'57			1312 Sep 02 j 06:02	0°♑		
	1307 May 18 j 08:24	30°♒♑		max. Earth dist.	1312 Sep 16 j 00:05	9°♑06'00	2.58738 AU	
opposition	1307 Jun 09 j 05:38	24°♑52'39	-4°-6'-18					
greatest brilliancy	1307 Jun 10 j 16:03	24°♑26'29	-2.5m	conjunction	1312 Oct 12 j 00:28	26°♑41'12	0°20'37	
min. Earth dist.	1307 Jun 16 j 12:36	22°♑40'37	0.42047 AU	minimum elong	1312 Oct 12 j 01:14	26°♑42'31	0°20'37	
direct	1307 Jul 13 j 13:42	18°♑03'43			1312 Oct 16 j 20:09	0°♒		
	1307 Aug 27 j 07:55	0°♏		desc. node	1312 Nov 16 j 01:53	21°♒11'48		
	1307 Oct 17 j 03:03	0°♐			1312 Nov 28 j 08:26	0°♑		
	1307 Nov 29 j 07:45	0°♑		morning rise	1312 Nov 29 j 22:12	1°♑08'13		
	1308 Jan 10 j 11:23	0°♒			1313 Jan 08 j 02:11	0°♓		
asc. node	1308 Jan 24 j 16:16	10°♒01'36			1313 Feb 16 j 13:44	0°♐		
	1308 Feb 22 j 08:24	0°♑			1313 Mar 27 j 11:33	0°♑		
	1308 Apr 06 j 14:42	0°♒			1313 May 05 j 17:31	0°♒		

	1313 Jun 15 j 13:01	0°♄			1318 Apr 15 j 11:16	0°♆		
	1313 Jul 30 j 00:14	0°♁			1318 Jun 29 j 14:41	0°♁		
asc. node	1313 Sep 15 j 13:28	26°♁20'44		desc. node	1318 Jul 08 j 22:21	5°♁18'26		
	1313 Sep 24 j 01:28	0°♄			1318 Aug 17 j 13:07	0°♆		
retrograde	1313 Nov 03 j 05:40	9°♄06'50			1318 Sep 29 j 16:59	0°♂		
min. Earth dist.	1313 Dec 08 j 01:41	1°♄08'34	0.61226 AU		1318 Nov 08 j 19:09	0°♄		
	1313 Dec 10 j 22:45	30°♁			1318 Dec 17 j 06:49	0°♁		
opposition	1313 Dec 12 j 23:26	29°♁11'29	3°24'17		1319 Jan 24 j 07:47	0°♂		
greatest brilliancy	1313 Dec 12 j 02:37	29°♁32'13	-1.5m	evening set	1319 Feb 06 j 11:36	10°♂18'41		
direct	1314 Jan 19 j 19:50	20°♁21'55			1319 Mar 03 j 22:10	0°♆		
	1314 Mar 05 j 04:07	0°♄			1319 Apr 12 j 21:34	0°♄		
	1314 May 06 j 21:11	0°♁						
	1314 Jun 27 j 18:05	0°♆		conjunction	1319 Apr 13 j 01:29	0°♄07'12	0°-16'-7	
	1314 Aug 14 j 12:21	0°♁		minimum elong	1319 Apr 13 j 02:42	0°♄09'25	0°16'07	
	1314 Sep 28 j 04:57	0°♆		asc. node	1319 May 08 j 11:02	18°♄28'42		
desc. node	1314 Oct 04 j 01:29	4°♆04'17			1319 May 24 j 19:22	0°♁		
evening set	1314 Oct 06 j 19:29	5°♆59'43		max. Earth dist.	1319 May 25 j 22:27	0°♁47'14	2.49826 AU	
max. Earth dist.	1314 Oct 21 j 04:36	16°♆10'19	2.47241 AU	morning rise	1319 Jun 11 j 19:17	12°♁25'20		
	1314 Nov 09 j 07:29	0°♂			1319 Jul 07 j 22:23	0°♄		
					1319 Aug 23 j 09:01	0°♁		
conjunction	1314 Nov 28 j 13:20	14°♂14'38	0°-33'-14		1319 Oct 11 j 14:04	0°♆		
minimum elong	1314 Nov 28 j 11:38	14°♂11'27	0°33'15		1319 Dec 05 j 06:54	0°♁		
	1314 Dec 19 j 09:25	0°♄		retrograde	1320 Feb 19 j 16:50	23°♁45'28		
morning rise	1315 Jan 27 j 12:49	0°♁17'57		opposition	1320 Mar 28 j 06:06	15°♁27'53	2°23'44	
	1315 Jan 27 j 03:38	0°♁		greatest brilliancy	1320 Mar 29 j 02:03	15°♁09'02	-1.6m	
	1315 Mar 06 j 09:32	0°♂		min. Earth dist.	1320 Apr 03 j 18:28	13°♁00'18	0.59447 AU	
greatest brilliancy	1315 Mar 29 j 13:32	18°♂04'37	1.2m	direct	1320 May 08 j 02:01	5°♁40'56		
	1315 Apr 14 j 00:16	0°♆		desc. node	1320 May 25 j 21:21	7°♁37'43		
	1315 May 23 j 21:54	0°♄			1320 Jul 19 j 09:19	0°♆		
	1315 Jul 05 j 02:26	0°♁			1320 Sep 05 j 04:08	0°♂		
asc. node	1315 Aug 03 j 11:23	19°♁32'34			1320 Oct 16 j 18:18	0°♄		
	1315 Aug 20 j 02:20	0°♄			1320 Nov 24 j 23:14	0°♁		
	1315 Oct 13 j 23:48	0°♁			1321 Jan 02 j 13:01	0°♂		
retrograde	1315 Dec 08 j 13:52	14°♁57'32			1321 Feb 10 j 16:23	0°♆		
opposition	1316 Jan 17 j 18:35	5°♁08'34	4°31'03		1321 Mar 23 j 05:38	0°♄		
greatest brilliancy	1316 Jan 17 j 11:53	5°♁15'17	-1.2m	asc. node	1321 Mar 25 j 09:17	1°♄33'21		
min. Earth dist.	1316 Jan 16 j 16:59	5°♁34'11	0.67182 AU	evening set	1321 Apr 10 j 07:18	12°♄56'51		
	1316 Jan 31 j 11:07	30°♁			1321 May 04 j 16:14	0°♁		
direct	1316 Feb 27 j 01:33	25°♄29'06						
	1316 Mar 27 j 07:28	0°♁		conjunction	1321 Jun 04 j 11:16	20°♁55'40	0°40'22	
	1316 Jun 03 j 08:18	0°♆		minimum elong	1321 Jun 04 j 09:41	20°♁53'01	0°40'21	
	1316 Jul 24 j 06:23	0°♁			1321 Jun 18 j 02:32	0°♄		
desc. node	1316 Aug 20 j 23:57	17°♁55'48		max. Earth dist.	1321 Jun 26 j 17:06	5°♄40'25	2.60815 AU	
	1316 Sep 07 j 20:43	0°♆		morning rise	1321 Jul 24 j 12:52	23°♄45'31		
	1316 Oct 20 j 01:21	0°♂			1321 Aug 03 j 06:18	0°♁		
evening set	1316 Nov 28 j 12:15	29°♂42'07			1321 Sep 19 j 19:17	0°♆		
	1316 Nov 28 j 21:33	0°♄			1321 Nov 07 j 18:01	0°♁		
	1317 Jan 06 j 08:09	0°♁			1321 Dec 29 j 10:19	0°♆		
					1322 Mar 02 j 05:33	0°♂		
conjunction	1317 Jan 31 j 21:25	20°♁11'09	-1°-4'-31	retrograde	1322 Apr 11 j 14:51	8°♂14'21		
minimum elong	1317 Jan 31 j 22:10	20°♁12'38	1°04'32	desc. node	1322 Apr 12 j 20:17	8°♂13'47		
	1317 Feb 13 j 07:49	0°♂		opposition	1322 May 15 j 11:33	1°♂36'37	-1°-43'-25	
max. Earth dist.	1317 Feb 21 j 05:35	6°♂13'18	2.37236 AU	greatest brilliancy	1322 May 16 j 06:59	1°♂20'18	-2.2m	
	1317 Mar 23 j 18:41	0°♆			1322 May 20 j 06:15	30°♁		
morning rise	1317 Apr 12 j 10:01	14°♆58'41		min. Earth dist.	1322 May 23 j 21:19	28°♁48'01	0.47081 AU	
	1317 May 02 j 12:50	0°♄		direct	1322 Jun 21 j 15:15	23°♁29'07		
	1317 Jun 13 j 07:00	0°♁			1322 Jul 23 j 23:17	0°♂		
asc. node	1317 Jun 20 j 11:07	4°♁58'55			1322 Sep 17 j 11:36	0°♄		
	1317 Jul 27 j 16:11	0°♄			1322 Oct 30 j 11:22	0°♁		
	1317 Sep 13 j 15:28	0°♁			1322 Dec 10 j 03:01	0°♂		
	1317 Nov 08 j 02:47	0°♆			1323 Jan 19 j 19:39	0°♆		
retrograde	1318 Jan 11 j 08:54	18°♆15'22		asc. node	1323 Feb 10 j 08:01	15°♆33'18		
opposition	1318 Feb 19 j 20:57	8°♆59'40	4°11'44		1323 Mar 02 j 16:19	0°♄		
greatest brilliancy	1318 Feb 20 j 09:13	8°♆47'36	-1.3m		1323 Apr 15 j 04:59	0°♁		
min. Earth dist.	1318 Feb 22 j 16:38	7°♆53'04	0.66583 AU	evening set	1323 May 28 j 08:41	28°♁39'20		
	1318 Mar 20 j 15:15	30°♁			1323 May 30 j 10:04	0°♄		
direct	1318 Apr 02 j 06:50	28°♁58'18						

conjunction	1323 Jul 15 j 23:04	0°♁02'39	1°06'47			1328 Aug 11 j 22:00	0°♁		
minimum elong	1323 Jul 15 j 22:26	0°♁01'39	1°06'47		asc. node	1328 Oct 02 j 04:40	21°♁29'30		
	1323 Jul 15 j 21:24	0°♁			retrograde	1328 Oct 19 j 05:39	23°♁23'59		
max. Earth dist.	1323 Jul 21 j 21:31	3°♁50'14	2.66667 AU		min. Earth dist.	1328 Nov 21 j 01:37	16°♁07'51	0.57229 AU	
morning rise	1323 Aug 30 j 11:56	29°♁03'01			opposition	1328 Nov 27 j 09:04	13°♁39'43	2°27'25	
	1323 Aug 31 j 23:48	0°♁			greatest brilliancy	1328 Nov 26 j 12:41	13°♁59'43	-1.7m	
	1323 Oct 18 j 03:52	0°♁			direct	1329 Jan 02 j 21:48	5°♁19'42		
	1323 Dec 04 j 04:53	0°♁				1329 Mar 21 j 16:52	0°♁		
	1324 Jan 20 j 10:29	0°♁				1329 May 16 j 03:02	0°♁		
desc. node	1324 Feb 28 j 19:38	24°♁28'44				1329 Jul 05 j 09:09	0°♁		
	1324 Mar 08 j 22:49	0°♁				1329 Aug 21 j 15:02	0°♁		
	1324 May 02 j 09:34	0°♁			evening set	1329 Sep 19 j 15:58	19°♁20'10		
retrograde	1324 Jun 25 j 13:40	15°♁08'39				1329 Oct 05 j 05:34	0°♁		
opposition	1324 Jul 25 j 18:25	10°♁10'09	-6°-51'-32		max. Earth dist.	1329 Oct 05 j 12:35	0°♁12'08	2.52182 AU	
greatest brilliancy	1324 Jul 26 j 01:50	10°♁05'13	-2.9m		desc. node	1329 Oct 20 j 16:47	10°♁48'16		
min. Earth dist.	1324 Jul 26 j 13:00	9°♁57'48	0.37444 AU						
direct	1324 Aug 24 j 19:15	5°♁08'31			conjunction	1329 Nov 08 j 10:39	24°♁10'51	0°-11'-28	
	1324 Nov 03 j 09:33	0°♁			minimum elong	1329 Nov 08 j 10:05	24°♁09'51	0°11'29	
	1324 Dec 22 j 04:50	0°♁			behind sun begin	1329 Nov 07 j 18:20	23°♁41'27		
asc. node	1324 Dec 28 j 07:35	3°♁57'07			behind sun end	1329 Nov 09 j 01:51	24°♁38'16		
	1325 Feb 06 j 05:11	0°♁				1329 Nov 16 j 11:16	0°♁		
	1325 Mar 24 j 07:35	0°♁				1329 Dec 26 j 18:36	0°♁		
	1325 May 10 j 03:37	0°♁			morning rise	1330 Jan 01 j 23:09	4°♁42'29		
	1325 Jun 26 j 12:24	0°♁				1330 Feb 03 j 18:40	0°♁		
evening set	1325 Jul 06 j 01:49	6°♁02'40				1330 Mar 14 j 05:36	0°♁		
	1325 Aug 12 j 19:26	0°♁				1330 Apr 22 j 00:16	0°♁		
max. Earth dist.	1325 Aug 12 j 23:45	0°♁06'53	2.67083 AU			1330 Jun 01 j 02:35	0°♁		
						1330 Jul 13 j 18:17	0°♁		
conjunction	1325 Aug 20 j 21:44	5°♁10'20	1°04'45		asc. node	1330 Aug 20 j 04:40	23°♁59'04		
minimum elong	1325 Aug 20 j 22:27	5°♁11'30	1°04'45			1330 Aug 30 j 09:15	0°♁		
	1325 Sep 28 j 08:58	0°♁				1330 Nov 08 j 00:18	0°♁		
morning rise	1325 Oct 04 j 08:09	3°♁53'45			retrograde	1330 Nov 25 j 04:45	1°♁48'06		
	1325 Nov 12 j 18:34	0°♁				1330 Dec 11 j 10:37	30°♁		
	1325 Dec 26 j 21:36	0°♁			min. Earth dist.	1331 Jan 01 j 18:27	22°♁54'37	0.65600 AU	
desc. node	1326 Jan 15 j 19:18	13°♁48'27			opposition	1331 Jan 04 j 08:31	21°♁52'21	4°16'50	
	1326 Feb 07 j 20:45	0°♁			greatest brilliancy	1331 Jan 03 j 18:47	22°♁06'08	-1.3m	
	1326 Mar 22 j 00:27	0°♁			direct	1331 Feb 12 j 20:00	12°♁28'44		
	1326 May 03 j 04:35	0°♁				1331 Apr 17 j 11:42	0°♁		
	1326 Jun 16 j 19:22	0°♁				1331 Jun 13 j 20:55	0°♁		
	1326 Aug 20 j 18:44	0°♁				1331 Aug 02 j 03:23	0°♁		
retrograde	1326 Sep 03 j 12:39	1°♁20'50			desc. node	1331 Sep 07 j 15:32	24°♁05'30		
	1326 Sep 17 j 03:01	30°♁				1331 Sep 16 j 06:29	0°♁		
min. Earth dist.	1326 Oct 01 j 01:03	26°♁12'13	0.44443 AU			1331 Oct 28 j 09:13	0°♁		
greatest brilliancy	1326 Oct 08 j 06:48	23°♁44'47	-2.4m		evening set	1331 Nov 06 j 14:05	6°♁47'48		
opposition	1326 Oct 09 j 04:02	23°♁26'42	-2°-7'-23		max. Earth dist.	1331 Nov 30 j 12:11	24°♁48'44	2.39494 AU	
direct	1326 Nov 10 j 06:21	17°♁01'45				1331 Dec 07 j 06:50	0°♁		
asc. node	1326 Nov 15 j 05:57	17°♁11'24							
	1326 Dec 30 j 19:50	0°♁			conjunction	1332 Jan 05 j 00:35	22°♁18'39	-1°00'-32	
	1327 Feb 26 j 20:31	0°♁			minimum elong	1332 Jan 04 j 22:44	22°♁15'02	1°00'32	
	1327 Apr 19 j 00:17	0°♁				1332 Jan 14 j 19:42	0°♁		
	1327 Jun 07 j 09:36	0°♁				1332 Feb 21 j 21:06	0°♁		
	1327 Jul 25 j 12:41	0°♁			morning rise	1332 Mar 13 j 19:44	16°♁24'47		
evening set	1327 Aug 12 j 06:36	11°♁17'58				1332 Mar 31 j 08:33	0°♁		
max. Earth dist.	1327 Sep 06 j 13:12	27°♁40'11	2.62107 AU			1332 May 10 j 02:39	0°♁		
	1327 Sep 10 j 02:30	0°♁				1332 Jun 20 j 22:14	0°♁		
					asc. node	1332 Jul 07 j 03:36	11°♁08'52		
conjunction	1327 Sep 27 j 06:48	11°♁22'23	0°37'26			1332 Aug 04 j 15:37	0°♁		
minimum elong	1327 Sep 27 j 07:55	11°♁24'15	0°37'25			1332 Sep 23 j 00:11	0°♁		
	1327 Oct 24 j 19:49	0°♁				1332 Nov 26 j 15:11	0°♁		
morning rise	1327 Nov 12 j 23:22	13°♁15'08			retrograde	1332 Dec 28 j 15:12	5°♁29'40		
desc. node	1327 Dec 03 j 17:57	27°♁55'08				1333 Jan 26 j 23:12	30°♁		
	1327 Dec 06 j 15:53	0°♁			opposition	1333 Feb 06 j 12:36	25°♁58'26	4°28'35	
	1328 Jan 16 j 19:55	0°♁			greatest brilliancy	1333 Feb 06 j 17:45	25°♁53'19	-1.2m	
	1328 Feb 25 j 18:31	0°♁			min. Earth dist.	1333 Feb 07 j 19:46	25°♁27'28	0.67601 AU	
	1328 Apr 05 j 03:16	0°♁			direct	1333 Mar 19 j 15:34	16°♁02'24		
	1328 May 14 j 21:27	0°♁				1333 May 13 j 15:17	0°♁		
	1328 Jun 25 j 14:41	0°♁				1333 Jul 09 j 20:33	0°♁		

desc. node	1333 Jul 25 j 14:15	9°♁36'13		max. Earth dist.	1338 Jul 12 j 15:38	23°♁32'08	2.65029 AU
	1333 Aug 25 j 23:17	0°♁			1338 Jul 22 j 17:12	0°♁	
	1333 Oct 07 j 14:52	0°♁		morning rise	1338 Aug 16 j 12:50	15°♁49'52	
	1333 Nov 16 j 13:12	0°♁			1338 Sep 07 j 21:31	0°♁	
	1333 Dec 24 j 23:20	0°♁			1338 Oct 25 j 13:28	0°♁	
evening set	1334 Jan 09 j 04:42	12°♁01'48			1338 Dec 12 j 19:29	0°♁	
	1334 Jan 31 j 22:43	0°♁			1339 Jan 31 j 17:44	0°♁	
	1334 Mar 11 j 10:29	0°♁		desc. node	1339 Mar 17 j 11:53	24°♁26'57	
					1339 Mar 29 j 02:08	0°♁	
conjunction	1334 Mar 18 j 00:59	5°♁03'34	0°-41'-17	retrograde	1339 May 25 j 06:52	15°♁36'48	
minimum elong	1334 Mar 18 j 03:59	5°♁09'18	0°41'16	opposition	1339 Jun 25 j 03:53	10°♁18'25	-5°-26'-21
	1334 Apr 20 j 06:31	0°♁		greatest brilliancy	1339 Jun 26 j 13:33	9°♁54'26	-2.7m
max. Earth dist.	1334 May 07 j 05:04	12°♁21'06	2.44503 AU	min. Earth dist.	1339 Jun 30 j 20:59	8°♁41'04	0.39744 AU
morning rise	1334 May 21 j 23:16	22°♁54'04		direct	1339 Jul 27 j 19:26	4°♁16'20	
asc. node	1334 May 25 j 02:10	25°♁06'25			1339 Oct 06 j 03:41	0°♁	
	1334 Jun 01 j 01:22	0°♁			1339 Nov 21 j 12:35	0°♁	
	1334 Jul 15 j 04:16	0°♁			1340 Jan 04 j 00:37	0°♁	
	1334 Aug 30 j 23:22	0°♁		asc. node	1340 Jan 14 j 22:16	7°♁32'31	
	1334 Oct 20 j 13:47	0°♁			1340 Feb 16 j 16:17	0°♁	
	1334 Dec 21 j 06:27	0°♁			1340 Apr 01 j 10:41	0°♁	
retrograde	1335 Feb 03 j 11:57	9°♁32'29			1340 May 17 j 11:31	0°♁	
opposition	1335 Mar 13 j 23:20	0°♁48'34	3°18'03	evening set	1340 Jun 21 j 06:06	22°♁15'45	
greatest brilliancy	1335 Mar 14 j 19:08	0°♁29'29	-1.4m		1340 Jul 03 j 09:45	0°♁	
	1335 Mar 16 j 01:39	30°♁		max. Earth dist.	1340 Aug 04 j 00:21	20°♁05'53	2.67568 AU
min. Earth dist.	1335 Mar 19 j 02:28	28°♁49'52	0.62982 AU				
direct	1335 Apr 24 j 06:30	20°♁49'55		conjunction	1340 Aug 06 j 18:57	21°♁51'50	1°08'40
	1335 Jun 05 j 01:24	0°♁		minimum elong	1340 Aug 06 j 19:13	21°♁52'15	1°08'40
desc. node	1335 Jun 12 j 12:37	3°♁04'35			1340 Aug 19 j 13:27	0°♁	
	1335 Aug 01 j 17:19	0°♁		morning rise	1340 Sep 20 j 06:35	20°♁18'54	
	1335 Sep 15 j 18:23	0°♁			1340 Oct 05 j 06:40	0°♁	
	1335 Oct 26 j 12:31	0°♁			1340 Nov 20 j 04:05	0°♁	
	1335 Dec 04 j 07:52	0°♁			1341 Jan 04 j 04:17	0°♁	
	1336 Jan 11 j 14:40	0°♁		desc. node	1341 Feb 01 j 10:32	19°♁05'34	
	1336 Feb 19 j 11:06	0°♁			1341 Feb 17 j 11:46	0°♁	
evening set	1336 Mar 18 j 14:04	21°♁05'52			1341 Apr 02 j 15:43	0°♁	
	1336 Mar 30 j 17:08	0°♁			1341 May 18 j 10:21	0°♁	
asc. node	1336 Apr 11 j 01:55	8°♁13'56			1341 Jul 16 j 13:15	0°♁	
	1336 May 11 j 21:02	0°♁		retrograde	1341 Aug 10 j 20:47	4°♁15'29	
					1341 Sep 05 j 12:51	30°♁	
conjunction	1336 May 16 j 15:28	3°♁18'11	0°21'40	min. Earth dist.	1341 Sep 06 j 11:51	29°♁43'10	0.39925 AU
minimum elong	1336 May 16 j 14:17	3°♁16'09	0°21'40	opposition	1341 Sep 12 j 21:53	27°♁46'57	-4°-42'-29
max. Earth dist.	1336 Jun 15 j 11:10	23°♁34'31	2.57071 AU	greatest brilliancy	1341 Sep 11 j 15:17	28°♁10'11	-2.7m
	1336 Jun 25 j 02:38	0°♁		direct	1341 Oct 13 j 06:28	22°♁17'59	
morning rise	1336 Jul 08 j 18:03	8°♁59'25			1341 Nov 19 j 01:33	0°♁	
	1336 Aug 10 j 06:38	0°♁		asc. node	1341 Dec 01 j 22:37	5°♁18'39	
	1336 Sep 27 j 05:52	0°♁			1342 Jan 18 j 02:42	0°♁	
	1336 Nov 16 j 13:40	0°♁			1342 Mar 09 j 10:47	0°♁	
	1337 Jan 11 j 23:38	0°♁			1342 Apr 27 j 06:53	0°♁	
retrograde	1337 Mar 20 j 03:57	19°♁21'04			1342 Jun 14 j 16:10	0°♁	
opposition	1337 Apr 24 j 16:08	11°♁57'56	0°14'01	evening set	1342 Jul 28 j 20:23	27°♁45'06	
greatest brilliancy	1337 Apr 07 j 21:01	17°♁08'12	-2.1m		1342 Aug 01 j 09:21	0°♁	
desc. node	1337 Apr 29 j 12:24	10°♁13'35		max. Earth dist.	1342 Aug 27 j 17:47	16°♁52'45	2.64678 AU
min. Earth dist.	1337 May 02 j 19:35	9°♁03'30	0.52297 AU				
direct	1337 Jun 02 j 18:41	2°♁55'47		conjunction	1342 Sep 12 j 10:34	27°♁04'43	0°50'51
	1337 Aug 16 j 04:14	0°♁		minimum elong	1342 Sep 12 j 11:44	27°♁06'36	0°50'50
	1337 Sep 30 j 10:42	0°♁			1342 Sep 16 j 21:45	0°♁	
	1337 Nov 10 j 02:24	0°♁		morning rise	1342 Oct 27 j 18:24	27°♁14'15	
	1337 Dec 19 j 13:43	0°♁			1342 Oct 31 j 19:57	0°♁	
	1338 Jan 28 j 10:24	0°♁			1342 Dec 14 j 01:46	0°♁	
asc. node	1338 Feb 26 j 23:53	21°♁39'11		desc. node	1342 Dec 20 j 09:19	4°♁28'34	
	1338 Mar 10 j 15:02	0°♁			1343 Jan 24 j 18:58	0°♁	
	1338 Apr 22 j 14:52	0°♁			1343 Mar 06 j 08:31	0°♁	
evening set	1338 May 11 j 01:49	12°♁29'32			1343 Apr 15 j 09:50	0°♁	
	1338 Jun 06 j 10:33	0°♁			1343 May 26 j 01:59	0°♁	
					1343 Jul 08 j 17:50	0°♁	
conjunction	1338 Jun 30 j 16:49	15°♁49'24	1°00'09		1343 Sep 04 j 00:59	0°♁	
minimum elong	1338 Jun 30 j 15:39	15°♁47'30	1°00'09	retrograde	1343 Oct 03 j 18:51	5°♁38'28	

asc. node	1343 Oct 19 j 21:53	3°II43'41			1348 Oct 15 j 05:17	0°♁		
	1343 Nov 01 j 04:22	30°R♁			1348 Nov 24 j 02:16	0°♁		
min. Earth dist.	1343 Nov 03 j 11:01	29°♁10'15	0.52489 AU	evening set	1348 Dec 12 j 21:26	14°♁34'51		
opposition	1343 Nov 10 j 23:08	26°♁19'56	1°05'15		1349 Jan 01 j 12:37	0°≈		
greatest brilliancy	1343 Nov 10 j 11:18	26°♁31'10	-2.0m		1349 Feb 08 j 12:00	0°♁		
direct	1343 Dec 15 j 22:58	18°♁37'33						
	1344 Feb 01 j 18:21	0°II		conjunction	1349 Feb 17 j 10:17	7°♁01'34	0°-59'-52	
	1344 Apr 02 j 09:39	0°♁		minimum elong	1349 Feb 17 j 12:40	7°♁06'15	0°59'52	
	1344 May 24 j 11:57	0°♁			1349 Mar 18 j 22:44	0°♁		
	1344 Jul 12 j 16:39	0°♁		max. Earth dist.	1349 Apr 06 j 02:09	13°♁50'50	2.39282 AU	
	1344 Aug 28 j 14:22	0°♁		morning rise	1349 Apr 27 j 18:29	0°♁03'13		
evening set	1344 Sep 03 j 18:00	4°♁02'47			1349 Apr 27 j 16:44	0°♁		
max. Earth dist.	1344 Sep 22 j 16:33	16°♁41'01	2.56600 AU		1349 Jun 08 j 10:04	0°II		
	1344 Oct 12 j 05:04	0°♁		asc. node	1349 Jun 10 j 18:50	1°II39'07		
					1349 Jul 22 j 15:05	0°♁		
conjunction	1344 Oct 21 j 12:22	6°♁27'12	0°09'32		1349 Sep 08 j 00:21	0°♁		
minimum elong	1344 Oct 21 j 12:45	6°♁27'53	0°09'32		1349 Oct 31 j 00:05	0°♁		
behind sun begin	1344 Oct 20 j 19:48	5°♁58'22		retrograde	1350 Jan 19 j 12:43	26°♁07'57		
behind sun end	1344 Oct 22 j 05:42	6°♁57'25		opposition	1350 Feb 27 j 17:05	17°♁02'21	3°55'56	
desc. node	1344 Nov 06 j 08:32	17°♁36'08		greatest brilliancy	1350 Feb 28 j 08:40	16°♁47'06	-1.3m	
	1344 Nov 23 j 15:26	0°♁		min. Earth dist.	1350 Mar 03 j 08:44	15°♁36'34	0.65590 AU	
morning rise	1344 Dec 11 j 01:13	12°♁43'15		direct	1350 Apr 10 j 03:31	7°♁00'03		
	1345 Jan 03 j 05:37	0°♁			1350 Jun 21 j 21:13	0°♁		
	1345 Feb 11 j 12:46	0°≈		desc. node	1350 Jun 29 j 05:36	3°♁53'54		
	1345 Mar 22 j 06:05	0°♁			1350 Aug 11 j 18:25	0°♁		
	1345 Apr 30 j 06:39	0°♁			1350 Sep 24 j 11:21	0°♁		
	1345 Jun 09 j 17:17	0°♁			1350 Nov 03 j 18:20	0°♁		
	1345 Jul 23 j 06:01	0°II			1350 Dec 12 j 08:00	0°≈		
asc. node	1345 Sep 05 j 19:54	26°II37'11			1351 Jan 19 j 10:16	0°♁		
	1345 Sep 12 j 09:18	0°♁		evening set	1351 Feb 22 j 01:23	26°♁09'10		
retrograde	1345 Nov 11 j 10:41	17°♁57'24			1351 Feb 27 j 01:48	0°♁		
min. Earth dist.	1345 Dec 17 j 07:08	9°♁37'52	0.63050 AU		1351 Apr 08 j 02:25	0°♁		
opposition	1345 Dec 21 j 09:06	7°♁59'51	3°48'31					
greatest brilliancy	1345 Dec 20 j 13:57	8°♁19'02	-1.4m	conjunction	1351 Apr 26 j 10:49	13°♁18'20	0°-1'-26	
	1346 Jan 16 j 03:43	30°RII		minimum elong	1351 Apr 26 j 10:53	13°♁18'27	0°01'27	
direct	1346 Jan 28 j 20:31	28°II56'39		behind sun begin	1351 Apr 25 j 09:52	12°♁33'35		
	1346 Feb 11 j 06:45	0°♁		behind sun end	1351 Apr 27 j 11:54	14°♁03'16		
	1346 Apr 30 j 00:48	0°♁		asc. node	1351 Apr 28 j 16:44	14°♁54'54		
	1346 Jun 22 j 09:17	0°♁			1351 May 20 j 01:23	0°II		
	1346 Aug 09 j 15:08	0°♁		max. Earth dist.	1351 Jun 03 j 14:52	10°II04'12	2.52607 AU	
	1346 Sep 23 j 11:37	0°♁		morning rise	1351 Jun 22 j 12:55	22°II54'10		
desc. node	1346 Sep 24 j 07:07	0°♁33'43			1351 Jul 03 j 04:05	0°♁		
evening set	1346 Oct 17 j 08:44	16°♁47'32			1351 Aug 18 j 10:50	0°♁		
max. Earth dist.	1346 Nov 01 j 16:51	27°♁52'16	2.44407 AU		1351 Oct 06 j 01:49	0°♁		
	1346 Nov 04 j 14:46	0°♁			1351 Nov 27 j 15:10	0°♁		
					1352 Feb 06 j 21:42	0°♁		
conjunction	1346 Dec 11 j 04:40	27°♁21'40	0°-44'-56	retrograde	1352 Feb 29 j 17:33	2°♁51'12		
minimum elong	1346 Dec 11 j 02:29	27°♁17'31	0°44'56		1352 Mar 21 j 23:49	30°R♁		
	1346 Dec 14 j 15:35	0°♁		opposition	1352 Apr 06 j 15:10	24°♁50'49	1°43'01	
	1347 Jan 22 j 08:03	0°≈		greatest brilliancy	1352 Apr 07 j 08:03	24°♁35'08	-1.7m	
morning rise	1347 Feb 12 j 13:05	16°≈39'43		min. Earth dist.	1352 Apr 13 j 19:26	22°♁10'38	0.57124 AU	
	1347 Mar 01 j 12:15	0°♁		direct	1352 May 16 j 23:40	15°♁15'16		
	1347 Apr 09 j 01:12	0°♁		desc. node	1352 May 16 j 04:05	15°♁15'32		
	1347 May 18 j 20:18	0°♁			1352 Jul 09 j 03:18	0°♁		
	1347 Jun 29 j 19:33	0°II			1352 Aug 29 j 10:32	0°♁		
asc. node	1347 Jul 24 j 19:42	16°II53'46			1352 Oct 10 j 22:03	0°♁		
	1347 Aug 14 j 03:35	0°♁			1352 Nov 19 j 12:07	0°≈		
	1347 Oct 05 j 02:03	0°♁			1352 Dec 28 j 07:35	0°♁		
retrograde	1347 Dec 16 j 05:35	22°♁46'58			1353 Feb 05 j 15:19	0°♁		
opposition	1348 Jan 25 j 08:35	13°♁03'18	4°33'40	asc. node	1353 Mar 15 j 16:20	28°♁04'38		
greatest brilliancy	1348 Jan 25 j 06:06	13°♁05'47	-1.2m		1353 Mar 18 j 08:13	0°♁		
min. Earth dist.	1348 Jan 25 j 03:16	13°♁08'37	0.67608 AU	evening set	1353 Apr 22 j 01:44	24°♁34'32		
direct	1348 Mar 05 j 23:49	3°♁16'45			1353 Apr 29 j 22:01	0°II		
	1348 May 27 j 06:19	0°♁			1353 Jun 13 j 10:16	0°♁		
	1348 Jul 18 j 19:11	0°♁						
desc. node	1348 Aug 11 j 06:06	14°♁54'13		conjunction	1353 Jun 14 j 09:59	0°♁39'09	0°49'00	
	1348 Sep 02 j 20:52	0°♁		minimum elong	1353 Jun 14 j 08:26	0°♁36'36	0°49'00	

max. Earth dist.	1353 Jul 02 j 18:55	12°♄41'50	2.62540 AU	opposition	1358 Oct 21 j 23:39	6°♄31'47	0°-47'-57
	1353 Jul 29 j 14:01	0°♄		greatest brilliancy	1358 Oct 21 j 14:48	6°♄39'42	-2.3m
morning rise	1353 Aug 02 j 03:13	2°♄16'22		asc. node	1358 Nov 05 j 13:27	1°♄56'57	
	1353 Sep 14 j 22:38	0°♄			1358 Nov 16 j 14:27	30°♄	
	1353 Nov 02 j 07:40	0°♄		direct	1358 Nov 24 j 04:44	29°♄36'52	
	1353 Dec 22 j 09:42	0°♄			1358 Dec 01 j 23:01	0°♄	
	1354 Feb 15 j 17:43	0°♄			1359 Feb 18 j 21:07	0°♄	
desc. node	1354 Apr 03 j 03:01	17°♄51'55			1359 Apr 13 j 03:45	0°♄	
retrograde	1354 Apr 26 j 00:26	20°♄49'27			1359 Jun 02 j 07:57	0°♄	
opposition	1354 May 28 j 21:26	14°♄40'25	-3°-2'-37		1359 Jul 20 j 19:12	0°♄	
greatest brilliancy	1354 May 30 j 03:26	14°♄16'28	-2.4m	evening set	1359 Aug 20 j 16:05	19°♄41'49	
min. Earth dist.	1354 Jun 05 j 22:45	12°♄07'20	0.44214 AU		1359 Sep 05 j 11:39	0°♄	
direct	1354 Jul 03 j 13:55	7°♄14'12		max. Earth dist.	1359 Sep 12 j 13:19	4°♄39'17	2.60332 AU
	1354 Sep 06 j 19:22	0°♄					
	1354 Oct 22 j 20:28	0°♄		conjunction	1359 Oct 06 j 03:39	20°♄26'16	0°28'05
	1354 Dec 03 j 16:04	0°♄		minimum elong	1359 Oct 06 j 04:36	20°♄27'53	0°28'03
	1355 Jan 14 j 01:15	0°♄			1359 Oct 20 j 04:10	0°♄	
asc. node	1355 Jan 31 j 15:50	12°♄35'46		morning rise	1359 Nov 22 j 22:46	23°♄37'31	
	1355 Feb 25 j 09:06	0°♄		desc. node	1359 Nov 24 j 00:06	24°♄22'39	
	1355 Apr 10 j 05:53	0°♄			1359 Dec 01 j 20:42	0°♄	
	1355 May 25 j 16:13	0°♄			1360 Jan 11 j 19:40	0°♄	
evening set	1355 Jun 06 j 16:15	7°♄46'58			1360 Feb 20 j 12:16	0°♄	
	1355 Jul 11 j 06:23	0°♄			1360 Mar 30 j 14:43	0°♄	
					1360 May 09 j 00:57	0°♄	
conjunction	1355 Jul 24 j 09:47	8°♄23'08	1°08'39		1360 Jun 19 j 02:52	0°♄	
minimum elong	1355 Jul 24 j 09:30	8°♄22'39	1°08'40		1360 Aug 03 j 09:30	0°♄	
max. Earth dist.	1355 Jul 27 j 05:07	10°♄10'21	2.67212 AU	asc. node	1360 Sep 22 j 12:49	25°♄38'26	
	1355 Aug 27 j 08:33	0°♄			1360 Oct 06 j 02:04	0°♄	
morning rise	1355 Sep 07 j 10:28	7°♄03'32		retrograde	1360 Oct 27 j 23:28	3°♄01'15	
	1355 Oct 13 j 07:58	0°♄			1360 Nov 17 j 13:32	30°♄	
	1355 Nov 28 j 21:41	0°♄		min. Earth dist.	1360 Nov 30 j 22:14	25°♄20'54	0.59540 AU
	1356 Jan 14 j 04:01	0°♄		opposition	1360 Dec 06 j 11:06	23°♄09'25	3°03'09
desc. node	1356 Feb 19 j 02:36	23°♄13'59		greatest brilliancy	1360 Dec 05 j 13:36	23°♄30'44	-1.6m
	1356 Feb 29 j 16:00	0°♄		direct	1361 Jan 12 j 17:24	14°♄32'19	
	1356 Apr 18 j 02:31	0°♄			1361 Mar 12 j 04:58	0°♄	
	1356 Jun 20 j 07:03	0°♄			1361 May 10 j 03:11	0°♄	
retrograde	1356 Jul 13 j 14:02	3°♄23'49			1361 Jun 30 j 07:13	0°♄	
	1356 Aug 06 j 04:51	30°♄			1361 Aug 16 j 21:04	0°♄	
min. Earth dist.	1356 Aug 10 j 21:37	28°♄46'18	0.37481 AU	evening set	1361 Sep 29 j 05:17	29°♄03'19	
opposition	1356 Aug 13 j 04:18	28°♄09'41	-6°-39'-17		1361 Sep 30 j 14:06	0°♄	
greatest brilliancy	1356 Aug 12 j 16:24	28°♄17'40	-2.9m	desc. node	1361 Oct 10 j 23:54	7°♄14'49	
direct	1356 Sep 11 j 15:34	23°♄14'42		max. Earth dist.	1361 Oct 13 j 23:57	9°♄21'19	2.49499 AU
	1356 Oct 15 j 08:57	0°♄			1361 Nov 11 j 19:08	0°♄	
	1356 Dec 13 j 03:35	0°♄					
asc. node	1356 Dec 18 j 14:25	3°♄16'09		conjunction	1361 Nov 19 j 12:30	5°♄39'37	0°-24'00
	1357 Jan 30 j 12:52	0°♄		minimum elong	1361 Nov 19 j 11:17	5°♄37'23	0°24'00
	1357 Mar 18 j 17:04	0°♄			1361 Dec 22 j 00:16	0°♄	
	1357 May 05 j 02:38	0°♄		morning rise	1362 Jan 15 j 21:59	19°♄08'07	
	1357 Jun 21 j 18:43	0°♄			1362 Jan 29 j 21:18	0°♄	
evening set	1357 Jul 14 j 10:10	14°♄16'46			1362 Mar 09 j 05:16	0°♄	
	1357 Aug 08 j 04:47	0°♄			1362 Apr 16 j 21:03	0°♄	
max. Earth dist.	1357 Aug 18 j 07:48	6°♄28'04	2.66446 AU		1362 May 26 j 19:14	0°♄	
					1362 Jul 08 j 02:14	0°♄	
conjunction	1357 Aug 29 j 01:21	13°♄21'19	1°00'42	asc. node	1362 Aug 10 j 10:55	21°♄55'50	
minimum elong	1357 Aug 29 j 02:18	13°♄22'51	1°00'41		1362 Aug 23 j 12:54	0°♄	
	1357 Sep 23 j 17:36	0°♄			1362 Oct 20 j 10:36	0°♄	
morning rise	1357 Oct 12 j 15:55	12°♄26'30		retrograde	1362 Dec 02 j 22:36	9°♄52'53	
	1357 Nov 07 j 23:01	0°♄		min. Earth dist.	1363 Jan 10 j 08:54	0°♄42'22	0.66607 AU
	1357 Dec 21 j 17:52	0°♄		opposition	1363 Jan 12 j 02:51	0°♄00'16	4°26'45
desc. node	1358 Jan 06 j 01:00	10°♄42'27		greatest brilliancy	1363 Jan 11 j 16:51	0°♄10'18	-1.3m
	1358 Feb 02 j 05:07	0°♄			1363 Jan 12 j 03:07	30°♄	
	1358 Mar 15 j 16:25	0°♄		direct	1363 Feb 21 j 01:11	20°♄27'24	
	1358 Apr 25 j 20:42	0°♄			1363 Apr 06 j 12:48	0°♄	
	1358 Jun 07 j 08:28	0°♄			1363 Jun 07 j 18:00	0°♄	
	1358 Jul 26 j 13:14	0°♄			1363 Jul 27 j 23:26	0°♄	
retrograde	1358 Sep 15 j 06:41	15°♄03'02		desc. node	1363 Aug 28 j 22:18	20°♄49'44	
min. Earth dist.	1358 Oct 13 j 18:26	9°♄27'14	0.47285 AU		1363 Sep 11 j 10:23	0°♄	

	1363 Oct 23 j 15:32	0°♁			1368 Jun 20 j 10:12	0°♁		
evening set	1363 Nov 19 j 03:18	19°♁45'39		max. Earth dist.	1368 Jun 22 j 02:10	1°♁06'12	2.59236 AU	
	1363 Dec 02 j 13:20	0°♁		morning rise	1368 Jul 17 j 22:14	18°♁01'19		
max. Earth dist.	1363 Dec 31 j 13:55	22°♁33'13	2.37487 AU		1368 Aug 05 j 12:53	0°♁		
	1364 Jan 10 j 01:16	0°♁			1368 Sep 22 j 04:53	0°♁		
					1368 Nov 10 j 15:15	0°♁		
conjunction	1364 Jan 20 j 09:12	8°♁08'42	-1°-4'-35		1369 Jan 02 j 20:24	0°♁		
minimum elong	1364 Jan 20 j 08:36	8°♁07'31	1°04'36		1369 Mar 27 j 06:18	0°♁		
	1364 Feb 17 j 01:34	0°♁		retrograde	1369 Apr 01 j 09:57	0°♁09'39		
	1364 Mar 26 j 12:00	0°♁			1369 Apr 06 j 11:11	30°♁		
morning rise	1364 Mar 30 j 19:09	3°♁18'22		desc. node	1369 Apr 19 j 18:38	28°♁02'08		
	1364 May 05 j 04:48	0°♁		opposition	1369 May 06 j 01:20	23°♁10'17	0°-49'-39	
	1364 Jun 15 j 21:54	0°♁		greatest brilliancy	1369 May 06 j 11:10	23°♁01'45	-2.1m	
asc. node	1364 Jun 27 j 10:15	7°♁58'37		min. Earth dist.	1369 May 14 j 11:05	20°♁16'02	0.49451 AU	
	1364 Jul 30 j 08:07	0°♁		direct	1369 Jun 13 j 04:02	14°♁35'18		
	1364 Sep 16 j 17:01	0°♁			1369 Aug 04 j 20:36	0°♁		
	1364 Nov 13 j 12:16	0°♁			1369 Sep 23 j 00:02	0°♁		
retrograde	1365 Jan 05 j 11:35	13°♁16'00			1369 Nov 03 j 18:23	0°♁		
opposition	1365 Feb 14 j 03:56	3°♁52'55	4°20'05		1369 Dec 13 j 19:09	0°♁		
greatest brilliancy	1365 Feb 14 j 13:09	3°♁43'48	-1.2m		1370 Jan 23 j 01:11	0°♁		
min. Earth dist.	1365 Feb 16 j 07:13	3°♁02'10	0.67168 AU	asc. node	1370 Feb 17 j 07:07	18°♁23'37		
	1365 Feb 24 j 05:10	30°♁			1370 Mar 05 j 12:51	0°♁		
direct	1365 Mar 27 j 10:55	23°♁53'17			1370 Apr 17 j 18:17	0°♁		
	1365 Apr 30 j 16:13	0°♁		evening set	1370 May 21 j 02:44	22°♁20'37		
	1365 Jul 03 j 10:16	0°♁			1370 Jun 01 j 17:50	0°♁		
desc. node	1365 Jul 15 j 20:36	7°♁18'19						
	1365 Aug 20 j 14:10	0°♁		conjunction	1370 Jul 09 j 13:04	24°♁30'49	1°04'32	
	1365 Oct 02 j 13:51	0°♁		minimum elong	1370 Jul 09 j 12:11	24°♁29'25	1°04'32	
	1365 Nov 11 j 15:18	0°♁		max. Earth dist.	1370 Jul 18 j 03:04	0°♁01'10	2.66041 AU	
	1365 Dec 20 j 02:36	0°♁			1370 Jul 18 j 02:20	0°♁		
greatest brilliancy	1366 Jan 20 j 02:43	24°♁29'01	1.2m	morning rise	1370 Aug 24 j 14:11	23°♁53'50		
evening set	1366 Jan 25 j 03:23	28°♁26'49			1370 Sep 03 j 04:59	0°♁		
	1366 Jan 27 j 02:43	0°♁			1370 Oct 20 j 13:44	0°♁		
	1366 Mar 06 j 15:17	0°♁			1370 Dec 07 j 02:13	0°♁		
					1371 Jan 24 j 07:19	0°♁		
conjunction	1366 Apr 02 j 02:40	20°♁04'04	0°-27'-14	desc. node	1371 Mar 07 j 17:25	25°♁14'37		
minimum elong	1366 Apr 02 j 04:47	20°♁08'01	0°27'14		1371 Mar 16 j 03:33	0°♁		
	1366 Apr 15 j 11:56	0°♁			1371 May 24 j 07:06	0°♁		
asc. node	1366 May 15 j 10:07	21°♁38'15		retrograde	1371 Jun 12 j 06:02	2°♁10'26		
max. Earth dist.	1366 May 18 j 14:58	23°♁54'23	2.47472 AU		1371 Jul 01 j 05:03	30°♁		
	1366 May 27 j 06:58	0°♁		opposition	1371 Jul 12 j 13:13	27°♁09'22	-6°-28'-15	
morning rise	1366 Jun 03 j 03:33	4°♁46'36		greatest brilliancy	1371 Jul 13 j 11:29	26°♁54'15	-2.8m	
	1366 Jul 10 j 08:09	0°♁		min. Earth dist.	1371 Jul 15 j 17:49	26°♁17'26	0.38128 AU	
	1366 Aug 25 j 20:28	0°♁		direct	1371 Aug 12 j 14:10	21°♁46'58		
	1366 Oct 14 j 11:59	0°♁			1371 Sep 18 j 05:52	0°♁		
	1366 Dec 10 j 04:54	0°♁			1371 Nov 12 j 06:13	0°♁		
retrograde	1367 Feb 12 j 13:47	17°♁59'56			1371 Dec 28 j 00:33	0°♁		
opposition	1367 Mar 22 j 13:16	9°♁29'51	2°48'32	asc. node	1372 Jan 05 j 06:38	5°♁31'50		
greatest brilliancy	1367 Mar 23 j 09:39	9°♁10'23	-1.5m		1372 Feb 10 j 18:50	0°♁		
min. Earth dist.	1367 Mar 28 j 10:48	7°♁14'42	0.61145 AU		1372 Mar 27 j 04:36	0°♁		
	1367 Apr 24 j 21:28	30°♁			1372 May 12 j 14:37	0°♁		
direct	1367 May 02 j 14:49	29°♁36'15			1372 Jun 28 j 18:07	0°♁		
	1367 May 10 j 12:33	0°♁		evening set	1372 Jun 29 j 19:23	0°♁40'04		
desc. node	1367 Jun 02 j 19:45	5°♁05'34		max. Earth dist.	1372 Aug 09 j 05:51	26°♁20'38	2.67401 AU	
	1367 Jul 25 j 09:34	0°♁						
	1367 Sep 09 j 20:43	0°♁		conjunction	1372 Aug 14 j 21:26	29°♁56'40	1°06'50	
	1367 Oct 21 j 02:16	0°♁		minimum elong	1372 Aug 14 j 21:59	29°♁57'33	1°06'50	
	1367 Nov 29 j 02:47	0°♁			1372 Aug 14 j 23:32	0°♁		
	1368 Jan 06 j 12:57	0°♁		morning rise	1372 Sep 28 j 06:47	28°♁28'53		
	1368 Feb 14 j 12:22	0°♁			1372 Sep 30 j 14:55	0°♁		
	1368 Mar 25 j 21:05	0°♁			1372 Nov 15 j 06:04	0°♁		
evening set	1368 Mar 31 j 19:02	4°♁17'08			1372 Dec 29 j 18:11	0°♁		
asc. node	1368 Apr 01 j 08:38	4°♁41'41		desc. node	1373 Jan 22 j 17:24	16°♁26'58		
	1368 May 07 j 03:25	0°♁			1373 Feb 11 j 06:36	0°♁		
					1373 Mar 26 j 04:06	0°♁		
conjunction	1368 May 27 j 14:42	14°♁02'04	0°33'02		1373 May 08 j 12:07	0°♁		
minimum elong	1368 May 27 j 13:12	13°♁59'32	0°33'01		1373 Jun 24 j 23:57	0°♁		

retrograde	1373 Aug 24 j 18:52	20°♃34'34			1378 Sep 18 j 17:45	0°♍	
min. Earth dist.	1373 Sep 20 j 15:56	15°♃45'53	0.42268 AU	evening set	1378 Oct 28 j 12:32	28°♍15'16	
greatest brilliancy	1373 Sep 27 j 04:24	13°♃39'34	-2.6m		1378 Oct 30 j 21:49	0°♁	
opposition	1373 Sep 28 j 08:25	13°♃16'51	-3°-13'-22	max. Earth dist.	1378 Nov 15 j 21:41	11°♁49'57	2.41597 AU
direct	1373 Oct 29 j 14:20	7°♃17'24			1378 Dec 09 j 21:46	0°♄	
asc. node	1373 Nov 22 j 05:16	10°♃38'23					
	1374 Jan 08 j 03:19	0°♄		conjunction	1378 Dec 24 j 18:49	11°♄28'02	0°-54'-51
	1374 Mar 02 j 20:39	0°♂		minimum elong	1378 Dec 24 j 16:35	11°♄23'42	0°54'51
	1374 Apr 21 j 20:54	0°♆			1379 Jan 17 j 12:36	0°≈	
	1374 Jun 09 j 19:00	0°♁			1379 Feb 24 j 15:05	0°♂	
	1374 Jul 27 j 17:55	0°♊		morning rise	1379 Mar 01 j 10:14	3°♂46'14	
evening set	1374 Aug 06 j 02:00	5°♋56'02			1379 Apr 04 j 02:39	0°♃	
max. Earth dist.	1374 Sep 02 j 09:25	23°♋30'48	2.63366 AU		1379 May 13 j 20:01	0°♄	
	1374 Sep 12 j 07:46	0°♅			1379 Jun 24 j 15:19	0°♂	
				asc. node	1379 Jul 15 j 03:12	14°♂00'47	
conjunction	1374 Sep 20 j 20:09	5°♅36'13	0°43'29		1379 Aug 08 j 11:59	0°♆	
minimum elong	1374 Sep 20 j 21:19	5°♅38'09	0°43'28		1379 Sep 27 j 14:29	0°♁	
	1374 Oct 27 j 04:15	0°♍			1379 Dec 14 j 05:42	0°♋	
morning rise	1374 Nov 05 j 19:44	6°♍37'00		retrograde	1379 Dec 23 j 22:29	0°♋34'01	
	1374 Dec 09 j 05:21	0°♁			1380 Jan 02 j 06:36	30°♁	
desc. node	1374 Dec 10 j 16:23	1°♁02'18		opposition	1380 Feb 01 j 22:15	20°♁56'49	4°32'03
	1375 Jan 19 j 15:48	0°♄		greatest brilliancy	1380 Feb 01 j 23:59	20°♁55'05	-1.2m
	1375 Feb 28 j 20:54	0°≈		min. Earth dist.	1380 Feb 02 j 12:54	20°♁42'12	0.67727 AU
	1375 Apr 09 j 12:06	0°♂		direct	1380 Mar 13 j 19:59	11°♁04'36	
	1375 May 19 j 13:44	0°♃			1380 May 19 j 01:07	0°♋	
	1375 Jun 30 j 20:34	0°♄			1380 Jul 13 j 01:01	0°♅	
asc. node	1375 Aug 19 j 10:03	0°♂		desc. node	1380 Aug 01 j 12:35	12°♅05'50	
	1375 Oct 10 j 03:40	16°♂26'43			1380 Aug 28 j 18:16	0°♍	
retrograde	1375 Oct 13 j 10:08	16°♂31'15			1380 Oct 10 j 07:59	0°♁	
min. Earth dist.	1375 Nov 14 j 07:15	9°♂35'30	0.55194 AU		1380 Nov 19 j 06:44	0°♄	
greatest brilliancy	1375 Nov 20 j 09:55	7°♂13'43	-1.8m	evening set	1380 Dec 27 j 23:57	0°≈13'09	
opposition	1375 Nov 21 j 04:06	6°♂56'04	1°56'22		1380 Dec 27 j 17:17	0°≈	
	1375 Dec 14 j 00:24	30°♁			1381 Feb 03 j 16:23	0°♂	
direct	1375 Dec 27 j 00:30	28°♂51'43					
	1376 Jan 09 j 17:21	0°♂		conjunction	1381 Mar 05 j 17:57	23°♂31'46	0°-50'-37
	1376 Mar 26 j 03:29	0°♆		minimum elong	1381 Mar 05 j 21:06	23°♂37'54	0°50'36
	1376 May 18 j 23:35	0°♁			1381 Mar 14 j 03:00	0°♃	
	1376 Jul 07 j 18:52	0°♋			1381 Apr 22 j 20:57	0°♄	
	1376 Aug 23 j 22:06	0°♅		max. Earth dist.	1381 Apr 26 j 03:44	2°♄25'11	2.42083 AU
evening set	1376 Sep 12 j 16:51	13°♅05'12		morning rise	1381 May 11 j 21:51	13°♄53'39	
max. Earth dist.	1376 Sep 29 j 21:24	24°♅43'03	2.54240 AU	asc. node	1381 Jun 01 j 01:26	28°♄14'31	
	1376 Oct 07 j 13:59	0°♍			1381 Jun 03 j 13:35	0°♂	
desc. node	1376 Oct 27 j 15:04	14°♍00'19			1381 Jul 17 j 15:37	0°♆	
					1381 Sep 02 j 14:13	0°♁	
conjunction	1376 Oct 31 j 11:22	16°♍43'50	0°-2'-22		1381 Oct 23 j 22:15	0°♋	
minimum elong	1376 Oct 31 j 11:15	16°♍43'37	0°02'23		1381 Dec 30 j 22:57	0°♅	
behind sun begin	1376 Oct 30 j 14:10	16°♍06'13		retrograde	1382 Jan 27 j 23:56	4°♅12'35	
behind sun end	1376 Nov 01 j 08:19	17°♍21'03			1382 Feb 22 j 18:51	30°♁	
	1376 Nov 18 j 22:48	0°♁		opposition	1382 Mar 07 j 19:02	25°♁18'26	3°35'27
morning rise	1376 Dec 23 j 00:52	25°♁11'22		greatest brilliancy	1382 Mar 08 j 13:12	25°♁00'46	-1.4m
	1376 Dec 29 j 10:06	0°♄		min. Earth dist.	1382 Mar 12 j 06:02	23°♁34'24	0.64267 AU
	1377 Feb 06 j 13:44	0°≈		direct	1382 Apr 18 j 03:54	15°♁17'16	
	1377 Mar 17 j 03:21	0°♂			1382 Jun 12 j 09:37	0°♅	
	1377 Apr 24 j 23:56	0°♃		desc. node	1382 Jun 19 j 11:11	3°♅20'21	
	1377 Jun 04 j 04:04	0°♄			1382 Aug 05 j 12:44	0°♍	
	1377 Jul 17 j 01:13	0°♂			1382 Sep 19 j 00:04	0°♁	
asc. node	1377 Aug 27 j 03:41	25°♂45'20			1382 Oct 29 j 14:08	0°♄	
	1377 Sep 03 j 15:18	0°♆			1382 Dec 07 j 07:16	0°≈	
retrograde	1377 Nov 19 j 10:15	26°♆28'17			1383 Jan 14 j 11:43	0°♂	
min. Earth dist.	1377 Dec 26 j 05:30	17°♆49'29	0.64577 AU		1383 Feb 22 j 05:13	0°♃	
opposition	1377 Dec 29 j 11:51	16°♆30'52	4°07'02	evening set	1383 Mar 08 j 19:00	11°♃03'01	
greatest brilliancy	1377 Dec 28 j 19:20	16°♆47'28	-1.4m		1383 Apr 03 j 07:36	0°♄	
direct	1378 Feb 06 j 12:38	7°♆15'54		asc. node	1383 Apr 19 j 00:55	11°♄24'03	
	1378 Apr 22 j 07:21	0°♁					
	1378 Jun 16 j 19:12	0°♋		conjunction	1383 May 08 j 18:54	25°♄25'40	0°12'19
	1378 Aug 04 j 16:00	0°♅		minimum elong	1383 May 08 j 18:09	25°♄24'21	0°12'19
desc. node	1378 Sep 14 j 13:44	27°♅08'07		behind sun begin	1383 May 08 j 02:47	24°♄57'22	

behind sun end	1383 May 09 j 09:31	25°♄51'18			1388 May 27 j 05:43	0°♁		
	1383 May 15 j 07:50	0°♁		retrograde	1388 Jul 30 j 02:16	21°♁29'19		
max. Earth dist.	1383 Jun 11 j 07:22	18°♁30'55	2.55155 AU	min. Earth dist.	1388 Aug 26 j 02:00	17°♁01'36	0.38484 AU	
	1383 Jun 28 j 10:44	0°♁		opposition	1388 Aug 30 j 22:07	15°♁38'57	-5°-43'-57	
morning rise	1383 Jul 02 j 13:21	2°♁43'29		greatest brilliancy	1388 Aug 29 j 20:24	15°♁57'20	-2.8m	
	1383 Aug 13 j 14:30	0°♁		direct	1388 Sep 29 j 17:32	10°♁30'21		
	1383 Sep 30 j 18:36	0°♁			1388 Dec 01 j 08:49	0°♁		
	1383 Nov 20 j 20:31	0°♁		asc. node	1388 Dec 08 j 21:34	3°♁55'37		
	1384 Jan 19 j 18:04	0°♁			1389 Jan 23 j 03:36	0°♁		
retrograde	1384 Mar 11 j 10:58	12°♁27'39			1389 Mar 12 j 19:57	0°♁		
opposition	1384 Apr 16 j 14:38	4°♁46'47	0°54'50		1389 Apr 29 j 22:57	0°♁		
greatest brilliancy	1384 Apr 17 j 01:11	4°♁37'10	-1.8m		1389 Jun 17 j 00:04	0°♁		
min. Earth dist.	1384 Apr 24 j 08:43	1°♁57'10	0.54526 AU	evening set	1389 Jul 22 j 16:56	22°♁27'33		
	1384 Apr 30 j 02:06	30°♁			1389 Aug 03 j 14:12	0°♁		
desc. node	1384 May 06 j 10:36	28°♁08'20		max. Earth dist.	1389 Aug 23 j 17:12	12°♁52'05	2.65579 AU	
direct	1384 May 26 j 07:51	25°♁27'28						
	1384 Jun 22 j 16:54	0°♁		conjunction	1389 Sep 06 j 06:06	21°♁36'28	0°55'24	
	1384 Aug 21 j 18:19	0°♁		minimum elong	1389 Sep 06 j 07:12	21°♁38'14	0°55'24	
	1384 Oct 04 j 14:37	0°♁			1389 Sep 19 j 03:24	0°♁		
	1384 Nov 13 j 17:58	0°♁		morning rise	1389 Oct 21 j 04:14	21°♁12'24		
	1384 Dec 22 j 21:13	0°♁			1389 Nov 03 j 05:29	0°♁		
	1385 Jan 31 j 11:03	0°♁			1389 Dec 16 j 17:34	0°♁		
asc. node	1385 Mar 05 j 23:37	24°♁40'07		desc. node	1389 Dec 27 j 07:49	7°♁28'02		
	1385 Mar 13 j 09:08	0°♁			1390 Jan 27 j 18:55	0°♁		
	1385 Apr 25 j 03:05	0°♁			1390 Mar 09 j 17:40	0°♁		
evening set	1385 May 03 j 02:57	5°♁27'49			1390 Apr 19 j 05:07	0°♁		
	1385 Jun 08 j 18:12	0°♁			1390 May 30 j 11:45	0°♁		
					1390 Jul 14 j 14:44	0°♁		
conjunction	1385 Jun 23 j 20:36	9°♁54'16	0°56'01	retrograde	1390 Sep 26 j 02:51	27°♁34'01		
minimum elong	1385 Jun 23 j 19:14	9°♁52'03	0°56'00	min. Earth dist.	1390 Oct 25 j 19:09	21°♁28'38	0.50185 AU	
max. Earth dist.	1385 Jul 08 j 13:11	19°♁26'49	2.64021 AU	asc. node	1390 Oct 26 j 21:12	21°♁05'03		
	1385 Jul 24 j 22:35	0°♁		opposition	1390 Nov 02 j 16:35	18°♁33'31	0°21'12	
morning rise	1385 Aug 10 j 10:36	10°♁32'34		greatest brilliancy	1390 Nov 03 j 14:14	18°♁13'29	-2.1m	
	1385 Sep 10 j 03:59	0°♁		direct	1390 Dec 06 j 21:48	11°♁11'01		
	1385 Oct 28 j 02:33	0°♁			1391 Feb 09 j 06:33	0°♁		
	1385 Dec 16 j 01:04	0°♁			1391 Apr 06 j 22:37	0°♁		
	1386 Feb 05 j 17:39	0°♁			1391 May 28 j 03:17	0°♁		
desc. node	1386 Mar 24 j 10:11	23°♁01'32			1391 Jul 16 j 00:33	0°♁		
	1386 Apr 12 j 21:07	0°♁		evening set	1391 Aug 29 j 05:16	28°♁15'54		
retrograde	1386 May 11 j 22:01	4°♁38'12			1391 Aug 31 j 20:54	0°♁		
	1386 Jun 09 j 03:59	30°♁		max. Earth dist.	1391 Sep 18 j 21:42	11°♁55'44	2.58367 AU	
opposition	1386 Jun 12 j 15:15	28°♁58'39	-4°-25'-30	conjunction	1391 Oct 15 j 07:44	29°♁50'01	0°17'42	
greatest brilliancy	1386 Jun 14 j 02:58	28°♁31'53	-2.6m	minimum elong	1391 Oct 15 j 08:24	29°♁51'11	0°17'42	
min. Earth dist.	1386 Jun 19 j 17:51	26°♁51'25	0.41557 AU		1391 Oct 15 j 13:32	0°♁		
direct	1386 Jul 16 j 17:06	22°♁18'40		desc. node	1391 Nov 14 j 06:54	20°♁47'23		
	1386 Aug 20 j 17:13	0°♁			1391 Nov 27 j 03:36	0°♁		
	1386 Oct 13 j 19:02	0°♁		morning rise	1391 Dec 03 j 11:30	4°♁34'43		
	1386 Nov 26 j 13:26	0°♁			1392 Jan 06 j 22:21	0°♁		
	1387 Jan 07 j 22:03	0°♁			1392 Feb 15 j 09:59	0°♁		
asc. node	1387 Jan 21 j 21:42	9°♁50'55			1392 Mar 25 j 06:58	0°♁		
	1387 Feb 19 j 21:00	0°♁			1392 May 03 j 10:48	0°♁		
	1387 Apr 05 j 03:57	0°♁			1392 Jun 13 j 01:49	0°♁		
	1387 May 20 j 21:10	0°♁			1392 Jul 27 j 02:23	0°♁		
evening set	1387 Jun 15 j 16:41	16°♁37'13		asc. node	1392 Sep 12 j 19:29	27°♁10'46		
	1387 Jul 06 j 15:13	0°♁			1392 Sep 18 j 21:43	0°♁		
conjunction	1387 Aug 01 j 16:38	16°♁35'33	1°09'08	retrograde	1392 Nov 05 j 09:18	12°♁10'48		
minimum elong	1387 Aug 01 j 16:40	16°♁35'36	1°09'08	min. Earth dist.	1392 Dec 10 j 09:46	4°♁08'05	0.61592 AU	
max. Earth dist.	1387 Aug 01 j 10:24	16°♁25'37	2.67522 AU	greatest brilliancy	1392 Dec 14 j 06:41	2°♁35'26	-1.5m	
	1387 Aug 22 j 17:58	0°♁		opposition	1392 Dec 15 j 03:33	2°♁14'36	3°31'59	
morning rise	1387 Sep 15 j 08:20	15°♁04'24		direct	1392 Dec 20 j 21:24	30°♁		
	1387 Oct 08 j 14:02	0°♁			1393 Jan 22 j 02:08	23°♁22'27		
	1387 Nov 23 j 18:34	0°♁			1393 Feb 26 j 23:40	0°♁		
	1388 Jan 08 j 07:12	0°♁			1393 May 03 j 16:19	0°♁		
desc. node	1388 Feb 09 j 09:02	21°♁18'25			1393 Jun 25 j 01:17	0°♁		
	1388 Feb 22 j 10:56	0°♁			1393 Aug 12 j 01:15	0°♁		
	1388 Apr 08 j 00:51	0°♁			1393 Sep 25 j 21:37	0°♁		

desc. node	1393 Oct 01 j 05:34	3°♁41'41			1398 May 22 j 12:10	0°♁	
evening set	1393 Oct 09 j 07:30	9°♁20'51		max. Earth dist.	1398 May 28 j 09:26	4°♁06'05	2.50387 AU
max. Earth dist.	1393 Oct 23 j 23:38	19°♁46'09	2.46718 AU	morning rise	1398 Jun 14 j 11:43	15°♁51'05	
	1393 Nov 07 j 02:49	0°♁			1398 Jul 05 j 12:47	0°♁	
					1398 Aug 20 j 20:09	0°♁	
conjunction	1393 Dec 01 j 10:03	18°♁00'06	0°-36'-18		1398 Oct 08 j 18:54	0°♁	
minimum elong	1393 Dec 01 j 08:14	17°♁56'41	0°36'17		1398 Dec 01 j 15:29	0°♁	
	1393 Dec 17 j 06:30	0°♁		retrograde	1399 Feb 22 j 03:09	26°♁46'51	
	1394 Jan 25 j 01:33	0°♁		opposition	1399 Mar 31 j 12:43	18°♁32'16	2°12'57
morning rise	1394 Jan 31 j 00:17	4°♁39'19		greatest brilliancy	1399 Apr 01 j 07:48	18°♁14'15	-1.6m
	1394 Mar 04 j 07:17	0°♁		min. Earth dist.	1399 Apr 07 j 03:21	16°♁02'40	0.59036 AU
greatest brilliancy	1394 Mar 18 j 16:35	11°♁15'30	1.2m	direct	1399 May 11 j 05:38	8°♁47'03	
	1394 Apr 11 j 20:49	0°♁		desc. node	1399 May 24 j 02:36	9°♁49'22	
	1394 May 21 j 16:01	0°♁			1399 Jul 16 j 17:44	0°♁	
	1394 Jul 02 j 16:16	0°♁			1399 Sep 03 j 13:01	0°♁	
asc. node	1394 Jul 31 j 18:56	19°♁30'06			1399 Oct 15 j 10:40	0°♁	
	1394 Aug 17 j 07:28	0°♁			1399 Nov 23 j 18:34	0°♁	
	1394 Oct 09 j 20:24	0°♁			1400 Jan 01 j 09:09	0°♁	
retrograde	1394 Dec 10 j 14:32	17°♁47'55			1400 Feb 09 j 12:01	0°♁	
opposition	1395 Jan 19 j 18:15	7°♁59'41	4°32'17		1400 Mar 20 j 23:55	0°♁	
min. Earth dist.	1395 Jan 18 j 20:22	8°♁21'37	0.67283 AU	asc. node	1400 Mar 22 j 15:19	1°♁11'20	
greatest brilliancy	1395 Jan 19 j 12:18	8°♁05'38	-1.2m	evening set	1400 Apr 13 j 04:45	16°♁36'10	
	1395 Feb 12 j 22:25	30°♁			1400 May 02 j 08:49	0°♁	
direct	1395 Mar 01 j 02:08	28°♁18'51					
	1395 Mar 18 j 09:42	0°♁		conjunction	1400 Jun 06 j 23:57	24°♁11'54	0°42'53
	1395 Jun 01 j 02:28	0°♁		minimum elong	1400 Jun 06 j 22:22	24°♁09'15	0°42'52
	1395 Jul 22 j 15:11	0°♁			1400 Jun 15 j 17:22	0°♁	
desc. node	1395 Aug 19 j 04:10	17°♁41'15		max. Earth dist.	1400 Jun 28 j 09:50	8°♁21'42	2.61165 AU
	1395 Sep 06 j 11:50	0°♁		morning rise	1400 Jul 26 j 18:21	26°♁45'43	
	1395 Oct 18 j 20:02	0°♁			1400 Jul 31 j 19:27	0°♁	
	1395 Nov 27 j 18:18	0°♁			1400 Sep 17 j 06:16	0°♁	
evening set	1395 Dec 02 j 18:14	3°♁50'52			1400 Nov 05 j 00:35	0°♁	
	1396 Jan 05 j 05:51	0°♁			1400 Dec 26 j 04:31	0°♁	
					1401 Feb 24 j 00:56	0°♁	
conjunction	1396 Feb 05 j 14:59	24°♁47'11	-1°-3'-51	desc. node	1401 Apr 10 j 01:01	11°♁44'36	
minimum elong	1396 Feb 05 j 16:09	24°♁49'29	1°03'52	retrograde	1401 Apr 14 j 18:13	11°♁52'45	
	1396 Feb 12 j 05:32	0°♁		opposition	1401 May 18 j 11:34	5°♁20'14	-2°-2'-20
max. Earth dist.	1396 Mar 07 j 10:56	18°♁59'52	2.37522 AU	greatest brilliancy	1401 May 19 j 09:54	5°♁01'40	-2.3m
	1396 Mar 21 j 15:36	0°♁		min. Earth dist.	1401 May 26 j 21:26	2°♁33'31	0.46534 AU
morning rise	1396 Apr 16 j 00:24	19°♁19'18			1401 Jun 04 j 15:30	30°♁	
	1396 Apr 30 j 08:06	0°♁		direct	1401 Jun 24 j 08:28	27°♁20'22	
	1396 Jun 10 j 23:42	0°♁			1401 Jul 14 j 11:52	0°♁	
asc. node	1396 Jun 17 j 18:25	4°♁43'31			1401 Sep 14 j 03:30	0°♁	
	1396 Jul 25 j 04:56	0°♁			1401 Oct 27 j 19:06	0°♁	
	1396 Sep 10 j 20:33	0°♁			1401 Dec 07 j 16:12	0°♁	
	1396 Nov 04 j 05:37	0°♁			1402 Jan 17 j 10:51	0°♁	
retrograde	1397 Jan 13 j 11:19	21°♁04'14		asc. node	1402 Feb 07 j 15:06	15°♁18'09	
opposition	1397 Feb 21 j 21:03	11°♁50'19	4°07'20		1402 Feb 28 j 07:52	0°♁	
greatest brilliancy	1397 Feb 22 j 09:55	11°♁37'38	-1.3m		1402 Apr 12 j 20:00	0°♁	
min. Earth dist.	1397 Feb 24 j 20:12	10°♁40'15	0.66422 AU		1402 May 28 j 00:18	0°♁	
direct	1397 Apr 04 j 06:03	1°♁48'34		evening set	1402 May 30 j 17:30	1°♁46'26	
	1397 Jun 26 j 08:17	0°♁			1402 Jul 13 j 11:03	0°♁	
desc. node	1397 Jul 06 j 03:48	5°♁28'30					
	1397 Aug 14 j 23:47	0°♁		conjunction	1402 Jul 18 j 03:42	3°♁00'05	1°07'26
	1397 Sep 27 j 10:08	0°♁		minimum elong	1402 Jul 18 j 03:09	2°♁59'13	1°07'26
	1397 Nov 06 j 15:25	0°♁		max. Earth dist.	1402 Jul 23 j 12:47	6°♁26'11	2.66796 AU
	1397 Dec 15 j 04:20	0°♁			1402 Aug 29 j 13:03	0°♁	
	1398 Jan 22 j 05:14	0°♁		morning rise	1402 Sep 01 j 13:39	1°♁55'25	
evening set	1398 Feb 10 j 02:43	14°♁47'39			1402 Oct 15 j 16:26	0°♁	
	1398 Mar 01 j 18:39	0°♁			1402 Dec 01 j 15:25	0°♁	
	1398 Apr 10 j 16:24	0°♁			1403 Jan 17 j 15:51	0°♁	
				desc. node	1403 Feb 26 j 00:24	24°♁42'14	
conjunction	1398 Apr 16 j 07:25	4°♁07'25	0°-12'-19		1403 Mar 06 j 15:24	0°♁	
minimum elong	1398 Apr 16 j 08:20	4°♁09'06	0°12'20		1403 Apr 28 j 00:44	0°♁	
behind sun begin	1398 Apr 15 j 15:35	3°♁38'30		retrograde	1403 Jun 30 j 15:45	19°♁54'06	
behind sun end	1398 Apr 17 j 01:05	4°♁39'40		opposition	1403 Jul 30 j 19:26	14°♁54'45	-6°-52'-54
asc. node	1398 May 05 j 15:58	18°♁06'04		greatest brilliancy	1403 Jul 30 j 23:12	14°♁52'16	-2.9m

min. Earth dist.	1403 Jul 31 j 00:04	14°♊51'42	0.37362 AU	conjunction	1408 Nov 11 j 00:23	27°♍37'22	0°-14'-42
direct	1403 Aug 29 j 14:12	9°♊56'29		minimum elong	1408 Nov 10 j 23:40	27°♍36'05	0°14'43
	1403 Oct 30 j 18:25	0°♋		behind sun begin	1408 Nov 10 j 14:09	27°♍18'51	
	1403 Dec 20 j 01:02	0°♌		behind sun end	1408 Nov 11 j 09:11	27°♍53'19	
asc. node	1403 Dec 26 j 13:35	4°♌09'40			1408 Nov 14 j 06:59	0°♎	
	1404 Feb 04 j 11:19	0°♍			1408 Dec 24 j 15:28	0°♏	
	1404 Mar 21 j 17:35	0°♎		morning rise	1409 Jan 05 j 02:16	8°♏43'17	
	1404 May 07 j 15:20	0°♏			1409 Feb 01 j 15:47	0°♐	
	1404 Jun 24 j 01:07	0°♐			1409 Mar 12 j 02:05	0°♑	
evening set	1404 Jul 08 j 05:49	8°♐58'21			1409 Apr 19 j 19:12	0°♒	
	1404 Aug 10 j 09:02	0°♑			1409 May 29 j 18:40	0°♓	
max. Earth dist.	1404 Aug 14 j 12:30	2°♑38'38	2.66972 AU		1409 Jul 11 j 04:57	0°♈	
				asc. node	1409 Aug 17 j 10:24	24°♈05'52	
conjunction	1404 Aug 23 j 00:32	8°♑04'44	1°03'41		1409 Aug 27 j 06:21	0°♉	
minimum elong	1404 Aug 23 j 01:19	8°♑06'00	1°03'41		1409 Oct 29 j 14:37	0°♊	
	1404 Sep 25 j 23:25	0°♒		retrograde	1409 Nov 27 j 05:44	4°♊41'50	
morning rise	1404 Oct 06 j 11:04	6°♒51'06			1409 Dec 23 j 16:16	30°♋♌	
	1404 Nov 10 j 09:32	0°♓		min. Earth dist.	1410 Jan 03 j 22:42	25°♌45'09	0.65830 AU
	1404 Dec 24 j 12:24	0°♈		opposition	1410 Jan 06 j 09:13	24°♌46'23	4°20'15
desc. node	1405 Jan 12 j 23:21	13°♈30'21		greatest brilliancy	1410 Jan 05 j 20:03	24°♌59'36	-1.3m
	1405 Feb 05 j 10:23	0°♉		direct	1410 Feb 14 j 22:22	15°♌21'06	
	1405 Mar 19 j 11:25	0°♊			1410 Apr 13 j 02:40	0°♍	
	1405 Apr 30 j 09:41	0°♋			1410 Jun 10 j 22:39	0°♎	
	1405 Jun 13 j 07:41	0°♌			1410 Jul 30 j 14:50	0°♏	
	1405 Aug 08 j 23:05	0°♍		desc. node	1410 Sep 04 j 20:35	23°♏47'18	
retrograde	1405 Sep 06 j 10:23	5°♍22'24			1410 Sep 13 j 23:08	0°♐	
min. Earth dist.	1405 Oct 04 j 00:56	0°♍09'24	0.44957 AU		1410 Oct 26 j 05:09	0°♑	
	1405 Oct 04 j 12:13	30°♎♏		evening set	1410 Nov 09 j 09:21	10°♎28'29	
greatest brilliancy	1405 Oct 11 j 11:28	27°♏36'47	-2.4m	max. Earth dist.	1410 Dec 04 j 20:18	29°♎43'51	2.39043 AU
opposition	1405 Oct 12 j 05:44	27°♏21'06	-1°-47'-3		1410 Dec 05 j 04:43	0°♏	
asc. node	1405 Nov 12 j 12:22	20°♏50'49					
direct	1405 Nov 13 j 14:25	20°♏50'21		conjunction	1411 Jan 08 j 08:57	26°♏33'03	-1°-1'-52
	1405 Dec 24 j 21:51	0°♐		minimum elong	1411 Jan 08 j 07:21	26°♏29'54	1°01'53
	1406 Feb 23 j 13:56	0°♑			1411 Jan 12 j 18:21	0°♒	
	1406 Apr 16 j 05:20	0°♒			1411 Feb 19 j 19:23	0°♓	
	1406 Jun 04 j 19:23	0°♓		morning rise	1411 Mar 18 j 15:33	21°♓01'42	
	1406 Jul 23 j 01:23	0°♈			1411 Mar 30 j 05:29	0°♈	
evening set	1406 Aug 14 j 09:39	14°♈13'19			1411 May 08 j 21:20	0°♉	
	1406 Sep 07 j 17:29	0°♉			1411 Jun 19 j 13:35	0°♊	
max. Earth dist.	1406 Sep 08 j 05:06	0°♉19'02	2.61780 AU	asc. node	1411 Jul 05 j 09:18	10°♊55'11	
					1411 Aug 03 j 01:43	0°♋	
conjunction	1406 Sep 29 j 12:00	14°♉25'05	0°34'56		1411 Sep 20 j 22:31	0°♌	
minimum elong	1406 Sep 29 j 13:06	14°♉26'54	0°34'55		1411 Nov 21 j 07:12	0°♍	
	1406 Oct 22 j 12:33	0°♎		retrograde	1411 Dec 31 j 16:36	8°♎19'12	
morning rise	1406 Nov 15 j 09:12	16°♎31'59			1412 Feb 06 j 13:01	30°♎♏	
desc. node	1406 Nov 30 j 22:12	27°♎30'57		opposition	1412 Feb 09 j 12:28	28°♏49'20	4°26'21
	1406 Dec 04 j 09:46	0°♏		greatest brilliancy	1412 Feb 09 j 18:24	28°♏43'27	-1.2m
	1407 Jan 14 j 14:18	0°♐		min. Earth dist.	1412 Feb 10 j 23:07	28°♏14'53	0.67550 AU
	1407 Feb 23 j 12:45	0°♑		direct	1412 Mar 21 j 15:40	18°♏52'35	
	1407 Apr 03 j 20:26	0°♒			1412 May 08 j 19:55	0°♓	
	1407 May 13 j 12:02	0°♓			1412 Jul 06 j 22:40	0°♈	
	1407 Jun 23 j 22:56	0°♈		desc. node	1412 Jul 22 j 18:59	9°♈33'12	
	1407 Aug 09 j 09:38	0°♉			1412 Aug 23 j 12:11	0°♊	
asc. node	1407 Sep 30 j 12:06	23°♉30'45			1412 Oct 05 j 08:51	0°♋	
retrograde	1407 Oct 22 j 11:34	26°♉36'04			1412 Nov 14 j 09:57	0°♌	
min. Earth dist.	1407 Nov 24 j 12:37	19°♉14'49	0.57689 AU		1412 Dec 22 j 21:24	0°♍	
opposition	1407 Nov 30 j 16:10	16°♉49'55	2°38'07	evening set	1413 Jan 12 j 17:00	16°♍26'50	
greatest brilliancy	1407 Nov 29 j 18:59	17°♉10'45	-1.7m		1413 Jan 29 j 20:54	0°♎	
direct	1408 Jan 06 j 07:32	8°♉26'37			1413 Mar 09 j 07:49	0°♏	
	1408 Mar 17 j 20:00	0°♊					
	1408 May 13 j 05:25	0°♋		conjunction	1413 Mar 21 j 12:13	9°♏19'20	0°-38'-1
	1408 Jul 02 j 19:13	0°♌		minimum elong	1413 Mar 21 j 15:05	9°♏24'46	0°38'00
	1408 Aug 19 j 05:31	0°♍			1413 Apr 18 j 02:07	0°♎	
evening set	1408 Sep 21 j 22:48	22°♍27'07		max. Earth dist.	1413 May 10 j 02:21	16°♎02'07	2.45053 AU
	1408 Oct 02 j 23:10	0°♎		asc. node	1413 May 22 j 09:10	24°♎47'40	
max. Earth dist.	1408 Oct 07 j 15:56	3°♎15'06	2.51678 AU	morning rise	1413 May 24 j 21:57	26°♎35'03	
desc. node	1408 Oct 17 j 21:50	10°♎24'41			1413 May 29 j 18:30	0°♏	

	1413 Jul 12 j 18:15	0°♄			1419 Jan 01 j 08:40	0°♃		
	1413 Aug 28 j 08:39	0°♂		asc. node	1419 Jan 12 j 05:56	7°♃29'42		
	1413 Oct 17 j 12:55	0°♆			1419 Feb 14 j 03:56	0°♄		
	1413 Dec 16 j 01:40	0°♁			1419 Mar 30 j 23:35	0°♂		
retrograde	1414 Feb 05 j 18:02	12°♁27'52			1419 May 16 j 00:47	0°♄		
opposition	1414 Mar 16 j 02:37	3°♁46'18	3°09'57	evening set	1419 Jun 24 j 09:58	25°♄11'33		
greatest brilliancy	1414 Mar 16 j 22:22	3°♁27'15	-1.4m		1419 Jul 01 j 23:19	0°♂		
min. Earth dist.	1414 Mar 21 j 08:33	1°♁44'52	0.62667 AU	max. Earth dist.	1419 Aug 06 j 15:21	22°♂40'20	2.67559 AU	
	1414 Mar 26 j 00:52	30°♆♁						
direct	1414 Apr 26 j 07:56	23°♆48'13		conjunction	1419 Aug 09 j 20:26	24°♂42'57	1°08'15	
	1414 May 29 j 22:45	0°♁		minimum elong	1419 Aug 09 j 20:46	24°♂43'29	1°08'15	
desc. node	1414 Jun 09 j 18:06	4°♁01'51			1419 Aug 18 j 03:29	0°♆		
	1414 Jul 29 j 18:04	0°♆		morning rise	1419 Sep 23 j 07:07	23°♆09'54		
	1414 Sep 13 j 07:34	0°♄			1419 Oct 03 j 21:07	0°♁		
	1414 Oct 24 j 06:34	0°♃			1419 Nov 18 j 18:14	0°♆		
	1414 Dec 02 j 03:57	0°♁			1420 Jan 02 j 16:49	0°♄		
	1415 Jan 09 j 11:11	0°♃		desc. node	1420 Jan 30 j 15:41	18°♄56'25		
	1415 Feb 17 j 07:01	0°♃			1420 Feb 15 j 20:40	0°♃		
evening set	1415 Mar 22 j 17:11	25°♃02'07			1420 Mar 30 j 17:23	0°♁		
	1415 Mar 29 j 11:46	0°♄			1420 May 14 j 18:10	0°♃		
asc. node	1415 Apr 09 j 07:57	7°♄52'00			1420 Jul 07 j 14:28	0°♃		
	1415 May 10 j 13:58	0°♂		retrograde	1420 Aug 14 j 04:00	8°♃51'20		
				min. Earth dist.	1420 Sep 09 j 18:44	4°♃17'15	0.40342 AU	
conjunction	1415 May 20 j 08:16	6°♂45'17	0°24'48	greatest brilliancy	1420 Sep 15 j 06:32	2°♃36'35	-2.7m	
minimum elong	1415 May 20 j 06:59	6°♂43'04	0°24'47	opposition	1420 Sep 16 j 13:13	2°♃13'03	-4°-21'-39	
max. Earth dist.	1415 Jun 18 j 08:13	26°♂24'30	2.57504 AU		1420 Sep 24 j 03:49	30°♆♁		
	1415 Jun 23 j 17:39	0°♄		direct	1420 Oct 17 j 00:10	26°♃38'26		
morning rise	1415 Jul 12 j 02:01	12°♄05'23			1420 Nov 09 j 13:16	0°♃		
	1415 Aug 08 j 19:22	0°♂		asc. node	1420 Nov 29 j 04:45	6°♃47'31		
	1415 Sep 25 j 15:07	0°♆			1421 Jan 14 j 13:16	0°♄		
	1415 Nov 14 j 15:10	0°♁			1421 Mar 06 j 13:56	0°♂		
	1416 Jan 08 j 20:46	0°♆			1421 Apr 24 j 15:46	0°♄		
retrograde	1416 Mar 22 j 21:49	22°♆40'31			1421 Jun 12 j 03:51	0°♂		
desc. node	1416 Apr 26 j 16:59	15°♆33'34			1421 Jul 29 j 23:06	0°♆		
opposition	1416 Apr 27 j 06:51	15°♆21'15	0°-1'-40	evening set	1421 Jul 30 j 22:05	0°♆36'28		
greatest brilliancy	1417 Oct 30 j 16:16	4°♁48'49	4.3m	max. Earth dist.	1421 Aug 29 j 05:47	19°♆23'13	2.64466 AU	
min. Earth dist.	1416 May 05 j 11:38	12°♆26'41	0.51788 AU					
direct	1416 Jun 05 j 04:38	6°♆23'43		conjunction	1421 Sep 14 j 12:35	29°♆58'44	0°48'53	
	1416 Aug 12 j 13:27	0°♄		minimum elong	1421 Sep 14 j 13:45	0°♁00'38	0°48'53	
	1416 Sep 27 j 18:28	0°♃			1421 Sep 14 j 13:21	0°♁		
	1416 Nov 07 j 16:57	0°♁		morning rise	1421 Oct 29 j 22:47	0°♆16'25		
	1416 Dec 17 j 06:42	0°♃			1421 Oct 29 j 13:07	0°♆		
	1417 Jan 26 j 03:50	0°♃			1421 Dec 11 j 19:54	0°♄		
asc. node	1417 Feb 24 j 06:30	21°♃20'15		desc. node	1421 Dec 17 j 14:58	4°♄06'16		
	1417 Mar 08 j 07:53	0°♄			1422 Jan 22 j 13:14	0°♃		
	1417 Apr 20 j 06:37	0°♂			1422 Mar 04 j 01:57	0°♁		
evening set	1417 May 13 j 13:54	15°♂45'23			1422 Apr 13 j 01:00	0°♃		
	1417 Jun 04 j 01:11	0°♄			1422 May 23 j 12:09	0°♃		
					1422 Jul 05 j 14:58	0°♄		
conjunction	1417 Jul 02 j 22:54	18°♄50'34	1°01'31		1422 Aug 28 j 08:42	0°♂		
minimum elong	1417 Jul 02 j 21:48	18°♄48'47	1°01'29	retrograde	1422 Oct 06 j 05:51	9°♂08'45		
max. Earth dist.	1417 Jul 14 j 03:30	26°♄03'26	2.65243 AU	asc. node	1422 Oct 17 j 03:02	8°♂15'57		
	1417 Jul 20 j 06:51	0°♂		min. Earth dist.	1422 Nov 06 j 03:46	2°♂34'34	0.53019 AU	
morning rise	1417 Aug 18 j 14:36	18°♂42'29			1422 Nov 12 j 22:08	30°♆♁		
	1417 Sep 05 j 10:08	0°♆		opposition	1422 Nov 13 j 12:40	29°♄46'07	1°20'05	
	1417 Oct 23 j 00:10	0°♁		greatest brilliancy	1422 Nov 12 j 22:33	29°♄59'36	-2.0m	
	1417 Dec 10 j 01:38	0°♆		direct	1422 Dec 18 j 15:44	21°♄59'16		
	1418 Jan 28 j 12:10	0°♄			1423 Jan 26 j 19:04	0°♂		
desc. node	1418 Mar 14 j 15:32	25°♄17'22			1423 Mar 31 j 04:11	0°♄		
	1418 Mar 23 j 23:05	0°♃			1423 May 22 j 18:18	0°♂		
retrograde	1418 May 29 j 03:36	20°♃00'10			1423 Jul 11 j 04:19	0°♆		
opposition	1418 Jun 28 j 22:05	14°♃45'41	-5°-42'-47		1423 Aug 27 j 05:30	0°♁		
greatest brilliancy	1418 Jun 30 j 06:28	14°♃22'46	-2.7m	evening set	1423 Sep 06 j 22:54	7°♁03'19		
min. Earth dist.	1418 Jul 04 j 04:01	13°♃16'51	0.39390 AU	max. Earth dist.	1423 Sep 25 j 16:22	19°♁34'57	2.56176 AU	
direct	1418 Jul 31 j 06:45	8°♃51'36			1423 Oct 10 j 22:47	0°♆		
	1418 Oct 01 j 18:21	0°♁						
	1418 Nov 18 j 11:18	0°♃		conjunction	1423 Oct 24 j 21:04	9°♆40'00	0°06'28	

minimum elong	1423 Oct 24 j 21:21	9°♄40'29	0°06'28	opposition	1429 Mar 01 j 18:51	19°♃57'07	3°50'10
behind sun begin	1423 Oct 24 j 02:06	9°♄06'50		greatest brilliancy	1429 Mar 02 j 10:49	19°♃41'29	-1.3m
behind sun end	1423 Oct 25 j 16:37	10°♄14'11		min. Earth dist.	1429 Mar 05 j 13:24	18°♃28'27	0.65353 AU
desc. node	1423 Nov 04 j 13:22	17°♄11'12		direct	1429 Apr 12 j 04:11	9°♃55'03	
	1423 Nov 22 j 11:03	0°♂			1429 Jun 18 j 02:27	0°♄	
morning rise	1423 Dec 14 j 18:00	16°♂18'21		desc. node	1429 Jun 26 j 09:32	4°♄15'44	
	1424 Jan 02 j 02:25	0°♂			1429 Aug 09 j 01:23	0°♄	
	1424 Feb 10 j 10:00	0°♂			1429 Sep 22 j 02:45	0°♂	
	1424 Mar 20 j 02:50	0°♂			1429 Nov 01 j 13:45	0°♂	
	1424 Apr 28 j 01:42	0°♂			1429 Dec 10 j 05:20	0°♂	
	1424 Jun 07 j 08:42	0°♂			1430 Jan 17 j 08:00	0°♂	
	1424 Jul 20 j 13:20	0°♂			1430 Feb 24 j 22:48	0°♂	
asc. node	1424 Sep 03 j 03:01	27°♂06'19		evening set	1430 Feb 25 j 10:38	0°♂22'39	
	1424 Sep 08 j 12:56	0°♂			1430 Apr 05 j 21:50	0°♂	
retrograde	1424 Nov 13 j 12:39	20°♂57'00		asc. node	1430 Apr 25 j 23:55	14°♂34'51	
min. Earth dist.	1424 Dec 19 j 12:59	12°♂34'03	0.63355 AU				
opposition	1424 Dec 23 j 11:47	10°♂59'06	3°54'36	conjunction	1430 Apr 29 j 09:26	17°♂00'43	0°02'11
greatest brilliancy	1424 Dec 22 j 16:49	11°♂18'07	-1.4m	minimum elong	1430 Apr 29 j 09:15	17°♂00'24	0°02'10
direct	1425 Jan 31 j 01:20	1°♂53'49		behind sun begin	1430 Apr 28 j 08:30	16°♂16'10	
	1425 Apr 26 j 13:47	0°♂		behind sun end	1430 Apr 30 j 10:01	17°♂44'34	
	1425 Jun 19 j 15:21	0°♂			1430 May 17 j 18:39	0°♂	
	1425 Aug 07 j 04:10	0°♂		max. Earth dist.	1430 Jun 05 j 19:55	13°♂10'12	2.53094 AU
desc. node	1425 Sep 21 j 12:01	0°♂12'26		morning rise	1430 Jun 25 j 00:23	26°♂08'53	
	1425 Sep 21 j 04:48	0°♂			1430 Jun 30 j 18:56	0°♂	
evening set	1425 Oct 19 j 22:32	20°♂13'11			1430 Aug 15 j 22:42	0°♂	
	1425 Nov 02 j 10:39	0°♂			1430 Oct 03 j 08:40	0°♂	
max. Earth dist.	1425 Nov 04 j 17:51	1°♂40'59	2.43864 AU		1430 Nov 24 j 08:23	0°♂	
	1425 Dec 12 j 13:02	0°♂			1431 Jan 29 j 03:57	0°♂	
				retrograde	1431 Mar 04 j 06:55	5°♂59'21	
conjunction	1425 Dec 14 j 04:51	1°♂16'06	0°-47'-34		1431 Apr 04 j 14:52	30°♂	
minimum elong	1425 Dec 14 j 02:38	1°♂11'51	0°47'33	opposition	1431 Apr 10 j 00:44	28°♂02'28	1°30'32
	1426 Jan 20 j 06:09	0°♂		greatest brilliancy	1431 Apr 10 j 16:02	27°♂48'15	-1.7m
morning rise	1426 Feb 16 j 05:26	21°♂11'51		min. Earth dist.	1431 Apr 17 j 07:10	25°♂20'44	0.56627 AU
	1426 Feb 27 j 10:05	0°♂		desc. node	1431 May 14 j 08:36	18°♂43'55	
	1426 Apr 06 j 21:54	0°♂		direct	1431 May 20 j 05:40	18°♂29'50	
	1426 May 16 j 14:54	0°♂			1431 Jul 05 j 06:40	0°♂	
	1426 Jun 27 j 10:31	0°♂			1431 Aug 27 j 12:47	0°♂	
asc. node	1426 Jul 22 j 02:44	16°♂45'58			1431 Oct 09 j 10:39	0°♂	
	1426 Aug 11 j 11:39	0°♂			1431 Nov 18 j 04:45	0°♂	
	1426 Oct 01 j 13:35	0°♂			1431 Dec 27 j 01:47	0°♂	
retrograde	1426 Dec 18 j 06:30	25°♂36'50			1432 Feb 04 j 09:41	0°♂	
opposition	1427 Jan 27 j 08:11	15°♂54'11	4°33'31	asc. node	1432 Mar 12 j 23:13	27°♂45'01	
greatest brilliancy	1427 Jan 27 j 06:26	15°♂55'56	-1.2m		1432 Mar 16 j 01:52	0°♂	
min. Earth dist.	1427 Jan 27 j 06:04	15°♂56'18	0.67654 AU	evening set	1432 Apr 24 j 18:50	28°♂03'20	
direct	1427 Mar 09 j 00:10	6°♂06'41			1432 Apr 27 j 14:25	0°♂	
	1427 May 24 j 16:28	0°♂			1432 Jun 11 j 01:12	0°♂	
	1427 Jul 17 j 02:13	0°♂					
desc. node	1427 Aug 09 j 10:53	14°♂43'11		conjunction	1432 Jun 16 j 18:56	3°♂47'14	0°51'03
	1427 Sep 01 j 11:44	0°♂		minimum elong	1432 Jun 16 j 17:26	3°♂44'45	0°51'02
	1427 Oct 14 j 00:27	0°♂		max. Earth dist.	1432 Jul 04 j 08:34	15°♂17'04	2.62843 AU
	1427 Nov 22 j 23:49	0°♂			1432 Jul 27 j 03:29	0°♂	
evening set	1427 Dec 17 j 04:42	18°♂47'10		morning rise	1432 Aug 04 j 06:05	5°♂11'27	
	1427 Dec 31 j 11:08	0°♂			1432 Sep 12 j 10:23	0°♂	
	1428 Feb 07 j 10:21	0°♂			1432 Oct 30 j 16:12	0°♂	
					1432 Dec 19 j 10:04	0°♂	
conjunction	1428 Feb 22 j 01:52	11°♂31'16	0°-58'-2		1433 Feb 11 j 12:43	0°♂	
minimum elong	1428 Feb 22 j 04:31	11°♂36'29	0°58'02	desc. node	1433 Mar 31 j 08:07	20°♂01'57	
	1428 Mar 16 j 19:59	0°♂		retrograde	1433 Apr 29 j 11:42	24°♂39'36	
max. Earth dist.	1428 Apr 11 j 08:31	19°♂26'35	2.39779 AU	opposition	1433 Jun 01 j 02:33	18°♂36'27	-3°-22'-15
	1428 Apr 25 j 12:08	0°♂		greatest brilliancy	1433 Jun 02 j 10:57	18°♂10'57	-2.4m
morning rise	1428 May 01 j 03:01	4°♂08'36		min. Earth dist.	1433 Jun 09 j 01:58	16°♂06'36	0.43674 AU
	1428 Jun 06 j 02:53	0°♂		direct	1433 Jul 06 j 13:02	11°♂18'41	
asc. node	1428 Jun 08 j 00:47	1°♂20'24			1433 Sep 02 j 10:38	0°♂	
	1428 Jul 20 j 04:18	0°♂			1433 Oct 19 j 20:21	0°♂	
	1428 Sep 05 j 07:18	0°♂			1433 Dec 01 j 00:46	0°♂	
	1428 Oct 27 j 13:32	0°♂			1434 Jan 11 j 13:18	0°♂	
retrograde	1429 Jan 21 j 17:01	29°♂00'37		asc. node	1434 Jan 28 j 21:04	12°♂22'24	

	1434 Feb 22 j 22:22	0°♄			1439 Jan 09 j 15:27	0°♄		
	1434 Apr 07 j 19:21	0°♁			1439 Feb 18 j 08:00	0°♁		
	1434 May 23 j 05:33	0°♁			1439 Mar 29 j 09:28	0°♁		
evening set	1434 Jun 08 j 23:42	10°♁51'22			1439 May 07 j 17:20	0°♁		
	1434 Jul 08 j 19:38	0°♁			1439 Jun 17 j 14:11	0°♄		
					1439 Aug 01 j 07:24	0°♁		
conjunction	1434 Jul 26 j 13:13	11°♁18'36	1°08'55	asc. node	1439 Sep 20 j 19:02	26°♁51'47		
minimum elong	1434 Jul 26 j 13:01	11°♁18'17	1°08'54		1439 Sep 29 j 00:52	0°♁		
max. Earth dist.	1434 Jul 28 j 19:21	12°♁44'47	2.67311 AU	retrograde	1439 Oct 31 j 03:18	6°♁09'05		
	1434 Aug 24 j 21:49	0°♁			1439 Nov 30 j 03:37	30°♁		
morning rise	1434 Sep 09 j 11:24	9°♁55'12		min. Earth dist.	1439 Dec 04 j 07:17	28°♁24'18	0.59957 AU	
	1434 Oct 10 j 20:58	0°♁		opposition	1439 Dec 09 j 16:45	26°♁15'51	3°12'09	
	1434 Nov 26 j 09:24	0°♁		greatest brilliancy	1439 Dec 08 j 18:53	26°♁37'34	-1.6m	
	1435 Jan 11 j 12:28	0°♁		direct	1440 Jan 16 j 01:52	17°♁35'52		
desc. node	1435 Feb 16 j 07:04	23°♁15'56			1440 Mar 07 j 09:48	0°♁		
	1435 Feb 26 j 17:03	0°♄			1440 May 07 j 01:41	0°♁		
	1435 Apr 15 j 08:11	0°♁			1440 Jun 27 j 15:41	0°♁		
	1435 Jun 11 j 04:59	0°♁			1440 Aug 14 j 10:41	0°♁		
retrograde	1435 Jul 18 j 08:03	8°♁10'11			1440 Sep 28 j 07:14	0°♁		
min. Earth dist.	1435 Aug 15 j 08:58	3°♁35'19	0.37582 AU	evening set	1440 Oct 01 j 15:32	2°♁18'45		
opposition	1435 Aug 18 j 02:56	2°♁50'38	-6°-30'-12	desc. node	1440 Oct 08 j 03:35	6°♁50'06		
greatest brilliancy	1435 Aug 17 j 12:15	3°♁00'35	-2.9m	max. Earth dist.	1440 Oct 16 j 13:08	12°♁43'57	2.48993 AU	
	1435 Aug 29 j 09:23	30°♁			1440 Nov 09 j 14:52	0°♁		
direct	1435 Sep 16 j 16:02	27°♁54'23						
	1435 Oct 04 j 17:48	0°♁		conjunction	1440 Nov 22 j 06:13	9°♁16'20	0°-27'-12	
	1435 Dec 10 j 10:13	0°♁		minimum elong	1440 Nov 22 j 04:52	9°♁13'49	0°27'12	
asc. node	1435 Dec 16 j 20:19	3°♁45'23			1440 Dec 19 j 21:39	0°♄		
	1436 Jan 28 j 14:11	0°♄		morning rise	1441 Jan 19 j 05:37	23°♄19'28		
	1436 Mar 16 j 00:38	0°♁			1441 Jan 27 j 19:27	0°♁		
	1436 May 02 j 12:55	0°♁			1441 Mar 07 j 03:11	0°♁		
	1436 Jun 19 j 06:39	0°♁			1441 Apr 14 j 17:39	0°♁		
evening set	1436 Jul 16 j 13:49	17°♁12'08			1441 May 24 j 13:14	0°♄		
	1436 Aug 05 j 18:11	0°♁			1441 Jul 05 j 15:33	0°♁		
max. Earth dist.	1436 Aug 19 j 19:47	8°♁58'57	2.66307 AU	asc. node	1441 Aug 07 j 17:52	21°♁55'55		
					1441 Aug 20 j 16:00	0°♁		
conjunction	1436 Aug 31 j 03:53	16°♁15'51	0°59'17		1441 Oct 15 j 13:14	0°♁		
minimum elong	1436 Aug 31 j 04:52	16°♁17'27	0°59'17	retrograde	1441 Dec 04 j 22:41	12°♁44'14		
	1436 Sep 21 j 08:19	0°♁		min. Earth dist.	1442 Jan 12 j 12:14	3°♁30'55	0.66757 AU	
morning rise	1436 Oct 14 j 18:53	15°♁25'00		opposition	1442 Jan 14 j 02:56	2°♁52'05	4°28'54	
	1436 Nov 05 j 14:36	0°♁		greatest brilliancy	1442 Jan 13 j 17:36	3°♁01'27	-1.3m	
	1436 Dec 19 j 09:37	0°♁			1442 Jan 21 j 10:13	30°♁		
desc. node	1437 Jan 03 j 06:02	10°♁23'50		direct	1442 Feb 23 j 03:11	23°♁17'47		
	1437 Jan 30 j 20:09	0°♄			1442 Mar 31 j 13:29	0°♁		
	1437 Mar 13 j 05:40	0°♁			1442 Jun 04 j 15:51	0°♁		
	1437 Apr 23 j 06:09	0°♁			1442 Jul 25 j 09:28	0°♁		
	1437 Jun 04 j 08:36	0°♁		desc. node	1442 Aug 26 j 02:16	20°♁32'26		
	1437 Jul 21 j 23:12	0°♄			1442 Sep 09 j 02:07	0°♁		
retrograde	1437 Sep 17 j 23:37	18°♄51'18			1442 Oct 21 j 10:39	0°♁		
min. Earth dist.	1437 Oct 16 j 16:41	13°♄09'09	0.47832 AU	evening set	1442 Nov 22 j 06:05	23°♄44'56		
opposition	1437 Oct 24 j 19:57	10°♄13'49	0°-29'-27		1442 Nov 30 j 10:28	0°♄		
greatest brilliancy	1437 Oct 24 j 14:26	10°♄18'47	-2.2m		1443 Jan 07 j 23:21	0°♁		
asc. node	1437 Nov 02 j 20:19	7°♄10'00		max. Earth dist.	1443 Jan 10 j 01:46	1°♁39'14	2.37262 AU	
direct	1437 Nov 27 j 05:51	3°♄13'15						
	1438 Feb 15 j 03:59	0°♁		conjunction	1443 Jan 24 j 00:44	12°♁39'48	-1°-4'-52	
	1438 Apr 10 j 05:44	0°♁		minimum elong	1443 Jan 24 j 00:33	12°♁39'27	1°04'54	
	1438 May 30 j 16:23	0°♁			1443 Feb 14 j 23:39	0°♁		
	1438 Jul 18 j 07:21	0°♁			1443 Mar 25 j 09:14	0°♁		
evening set	1438 Aug 22 j 19:49	22°♁39'01		morning rise	1443 Apr 04 j 12:45	7°♁47'45		
	1438 Sep 03 j 02:40	0°♁			1443 May 04 j 00:18	0°♄		
max. Earth dist.	1438 Sep 14 j 07:03	7°♁21'41	2.59996 AU	asc. node	1443 Jun 14 j 14:42	0°♁		
					1443 Jun 25 j 17:36	7°♁43'59		
conjunction	1438 Oct 08 j 09:37	23°♁31'16	0°25'19		1443 Jul 28 j 20:34	0°♁		
minimum elong	1438 Oct 08 j 10:30	23°♁32'47	0°25'19		1443 Sep 14 j 20:34	0°♁		
	1438 Oct 17 j 21:30	0°♁			1443 Nov 10 j 03:22	0°♁		
desc. node	1438 Nov 21 j 04:59	23°♁58'01		retrograde	1444 Jan 08 j 13:05	16°♁03'49		
morning rise	1438 Nov 25 j 09:51	26°♁57'46		opposition	1444 Feb 17 j 03:34	6°♁42'13	4°16'34	
	1438 Nov 29 j 15:41	0°♁		greatest brilliancy	1444 Feb 17 j 13:24	6°♁32'28	-1.2m	

min. Earth dist.	1444 Feb 19 j 10:00	5°♄48'21	0.67052 AU		1449 Apr 15 j 09:31	0°♁	
	1444 Mar 06 j 19:42	30°♁♂		evening set	1449 May 23 j 13:05	25°♁♂32'03	
direct	1444 Mar 29 j 10:29	26°♁♂42'12			1449 May 30 j 08:00	0°♁	
	1444 Apr 22 j 22:29	0°♄					
	1444 Jun 30 j 08:26	0°♁		conjunction	1449 Jul 11 j 18:20	27°♁♂30'22	1°05'29
desc. node	1444 Jul 13 j 02:01	7°♁♂21'49		minimum elong	1449 Jul 11 j 17:34	27°♁♂29'07	1°05'28
	1444 Aug 18 j 02:06	0°♁			1449 Jul 15 j 15:39	0°♁	
	1444 Sep 30 j 07:30	0°♁♂		max. Earth dist.	1449 Jul 19 j 15:49	2°♁♂34'01	2.66207 AU
	1444 Nov 09 j 11:45	0°♁		morning rise	1449 Aug 26 j 15:48	26°♁♂46'36	
	1444 Dec 18 j 00:11	0°♁			1449 Aug 31 j 17:40	0°♄	
greatest brilliancy	1445 Jan 08 j 14:24	17°♁♂02'53	1.2m		1449 Oct 18 j 01:20	0°♁	
	1445 Jan 25 j 00:15	0°♁			1449 Dec 04 j 10:59	0°♁	
evening set	1445 Jan 28 j 19:44	3°♁♂00'00			1450 Jan 21 j 09:01	0°♁♂	
	1445 Mar 04 j 11:52	0°♁		desc. node	1450 Mar 04 j 22:31	25°♁♂41'31	
					1450 Mar 12 j 09:09	0°♁	
conjunction	1445 Apr 05 j 12:30	24°♁♂14'36	0°-23'-30		1450 May 12 j 12:19	0°♁	
minimum elong	1445 Apr 05 j 14:19	24°♁♂17'59	0°23'29	retrograde	1450 Jun 16 j 06:26	6°♁♂46'58	
	1445 Apr 13 j 06:56	0°♁		opposition	1450 Jul 16 j 11:50	1°♁♂48'03	-6°-37'-35
asc. node	1445 May 12 j 15:19	21°♁♂16'13		greatest brilliancy	1450 Jul 17 j 07:02	1°♁♂35'10	-2.8m
max. Earth dist.	1445 May 21 j 09:25	27°♁♂28'03	2.48064 AU	min. Earth dist.	1450 Jul 19 j 03:35	1°♁♂05'21	0.37898 AU
	1445 May 24 j 23:57	0°♁			1450 Jul 23 j 07:49	30°♁♂	
morning rise	1445 Jun 05 j 22:58	8°♁♂19'25		direct	1450 Aug 16 j 03:59	26°♁♂32'09	
	1445 Jul 07 j 22:34	0°♁			1450 Sep 08 j 08:59	0°♁	
	1445 Aug 23 j 07:15	0°♁			1450 Nov 08 j 13:37	0°♁	
	1445 Oct 11 j 15:17	0°♄			1450 Dec 25 j 02:24	0°♁	
	1445 Dec 06 j 04:32	0°♁		asc. node	1451 Jan 02 j 13:04	5°♁♂36'41	
retrograde	1446 Feb 14 j 21:33	20°♁♂57'33			1451 Feb 08 j 03:07	0°♁	
opposition	1446 Mar 24 j 17:57	12°♁♂30'00	2°38'54		1451 Mar 25 j 15:28	0°♁	
greatest brilliancy	1446 Mar 25 j 13:47	12°♁♂11'04	-1.5m		1451 May 11 j 02:32	0°♁	
min. Earth dist.	1446 Mar 30 j 17:57	10°♁♂12'40	0.60785 AU		1451 Jun 27 j 06:40	0°♁	
direct	1446 May 04 j 17:22	2°♁♂37'44		evening set	1451 Jul 02 j 23:21	3°♁♂36'38	
desc. node	1446 May 31 j 00:58	6°♁♂37'51		max. Earth dist.	1451 Aug 11 j 21:15	28°♁♂57'03	2.67337 AU
	1446 Jul 22 j 02:55	0°♁			1451 Aug 13 j 12:46	0°♄	
	1446 Sep 07 j 07:57	0°♁♂					
	1446 Oct 18 j 19:41	0°♁		conjunction	1451 Aug 17 j 23:46	2°♄♂50'36	1°06'02
	1446 Nov 26 j 22:41	0°♁		minimum elong	1451 Aug 18 j 00:24	2°♄♂51'36	1°06'02
	1447 Jan 04 j 09:24	0°♁			1451 Sep 29 j 04:50	0°♁	
	1447 Feb 12 j 08:07	0°♁		morning rise	1451 Oct 01 j 08:47	1°♁♂24'24	
	1447 Mar 24 j 15:24	0°♁			1451 Nov 13 j 20:16	0°♁	
asc. node	1447 Mar 30 j 14:15	4°♁♂19'14			1451 Dec 28 j 07:50	0°♁♂	
evening set	1447 Apr 04 j 19:39	8°♁♂05'17		desc. node	1452 Jan 20 j 21:54	16°♁♂12'34	
	1447 May 05 j 19:56	0°♁			1452 Feb 09 j 18:27	0°♁	
					1452 Mar 23 j 12:06	0°♁	
conjunction	1447 May 31 j 05:49	17°♁♂24'25	0°35'52		1452 May 05 j 11:18	0°♁	
minimum elong	1447 May 31 j 04:16	17°♁♂21'47	0°35'51		1452 Jun 20 j 17:08	0°♁	
	1447 Jun 19 j 00:56	0°♁		retrograde	1452 Aug 27 j 20:43	24°♁♂48'52	
max. Earth dist.	1447 Jun 24 j 23:17	3°♁♂55'42	2.59635 AU	min. Earth dist.	1452 Sep 23 j 18:34	19°♁♂56'19	0.42741 AU
morning rise	1447 Jul 21 j 05:11	21°♁♂04'52		opposition	1452 Oct 01 j 14:51	17°♁♂22'48	-2°-52'-11
	1447 Aug 04 j 01:46	0°♁		greatest brilliancy	1452 Sep 30 j 12:57	17°♁♂44'01	-2.5m
	1447 Sep 20 j 15:12	0°♄		direct	1452 Nov 02 j 02:31	11°♁♂17'29	
	1447 Nov 08 j 20:04	0°♁		asc. node	1452 Nov 19 j 11:35	13°♁♂09'59	
	1447 Dec 31 j 08:26	0°♁			1453 Jan 03 j 16:59	0°♁	
	1448 Mar 09 j 13:16	0°♁♂			1453 Feb 27 j 18:32	0°♁	
retrograde	1448 Apr 04 j 07:53	3°♁♂38'18			1453 Apr 19 j 03:17	0°♁	
desc. node	1448 Apr 16 j 23:10	2°♁♂38'17			1453 Jun 07 j 05:13	0°♁	
	1448 Apr 28 j 15:58	30°♁♂			1453 Jul 25 j 06:38	0°♄	
opposition	1448 May 08 j 20:37	26°♁♂43'45	-1°-7'-9	evening set	1453 Aug 08 j 04:39	8°♄♂50'32	
greatest brilliancy	1448 May 09 j 09:40	26°♁♂32'33	-2.1m	max. Earth dist.	1453 Sep 03 j 21:55	26°♄♂03'56	2.63077 AU
min. Earth dist.	1448 May 17 j 07:48	23°♁♂49'59	0.48907 AU		1453 Sep 09 j 22:31	0°♁	
direct	1448 Jun 15 j 17:58	18°♁♂15'09					
	1448 Jul 30 j 19:40	0°♁♂		conjunction	1453 Sep 23 j 00:23	8°♁♂36'27	0°41'11
	1448 Sep 20 j 00:25	0°♁		minimum elong	1453 Sep 23 j 01:32	8°♁♂38'21	0°41'10
	1448 Nov 01 j 05:28	0°♁			1453 Oct 24 j 20:37	0°♁	
	1448 Dec 11 j 10:11	0°♁		morning rise	1453 Nov 08 j 03:45	9°♁♂49'06	
	1449 Jan 20 j 17:27	0°♁			1453 Dec 06 j 22:46	0°♁♂	
asc. node	1449 Feb 14 j 14:23	18°♁♂07'20		desc. node	1453 Dec 07 j 20:33	0°♁♂38'41	
	1449 Mar 03 j 04:58	0°♁			1454 Jan 17 j 09:38	0°♁	

	1454 Feb 26 j 14:28	0°♊			1459 May 15 j 22:18	0°♎		
	1454 Apr 07 j 04:26	0°♋			1459 Jul 11 j 05:49	0°♏		
	1454 May 17 j 02:57	0°♌		desc. node	1459 Jul 30 j 17:25	11°♏58'31		
	1454 Jun 28 j 01:49	0°♍			1459 Aug 27 j 08:23	0°♐		
	1454 Aug 15 j 08:07	0°♎			1459 Oct 09 j 02:49	0°♑		
asc. node	1454 Oct 07 j 11:31	19°♎20'09			1459 Nov 18 j 04:13	0°♒		
retrograde	1454 Oct 15 j 16:27	19°♎48'17			1459 Dec 26 j 16:01	0°♓		
min. Earth dist.	1454 Nov 16 j 19:16	12°♎47'29	0.55677 AU	evening set	1460 Jan 01 j 10:09	4°♓32'29		
opposition	1454 Nov 23 j 12:49	10°♎10'33	2°08'36		1460 Feb 02 j 15:14	0°♋		
greatest brilliancy	1454 Nov 22 j 17:16	10°♎29'35	-1.8m					
direct	1454 Dec 29 j 12:12	2°♎02'41		conjunction	1460 Mar 09 j 08:00	27°♋54'42	0°-47'-50	
	1455 Mar 23 j 14:44	0°♏		minimum elong	1460 Mar 09 j 11:12	28°♋00'53	0°47'50	
	1455 May 17 j 03:54	0°♐			1460 Mar 12 j 00:57	0°♌		
	1455 Jul 06 j 05:44	0°♑			1460 Apr 20 j 17:05	0°♍		
	1455 Aug 22 j 12:55	0°♒		max. Earth dist.	1460 Apr 29 j 13:42	6°♍31'20	2.42621 AU	
evening set	1455 Sep 15 j 22:43	16°♒08'52		morning rise	1460 May 15 j 01:02	17°♍44'30		
max. Earth dist.	1455 Oct 02 j 21:15	27°♒38'28	2.53755 AU	asc. node	1460 May 29 j 08:12	27°♍55'10		
	1455 Oct 06 j 07:39	0°♓			1460 Jun 01 j 07:10	0°♎		
desc. node	1455 Oct 25 j 19:48	13°♓35'46			1460 Jul 15 j 05:47	0°♏		
					1460 Aug 30 j 23:08	0°♐		
conjunction	1455 Nov 03 j 22:55	20°♓04'12	0°-5'-35		1460 Oct 20 j 18:47	0°♑		
minimum elong	1455 Nov 03 j 22:40	20°♓03'46	0°05'35		1460 Dec 23 j 18:45	0°♒		
behind sun begin	1455 Nov 03 j 02:20	19°♓27'33		retrograde	1461 Jan 30 j 04:34	7°♒05'37		
behind sun end	1455 Nov 04 j 18:59	20°♓40'00			1461 Mar 05 j 06:03	30°♒♎		
	1455 Nov 17 j 18:21	0°♑		opposition	1461 Mar 09 j 21:18	28°♒13'30	3°28'21	
morning rise	1455 Dec 26 j 23:43	29°♑01'36		greatest brilliancy	1461 Mar 10 j 15:37	27°♒55'42	-1.4m	
	1455 Dec 28 j 06:40	0°♒		min. Earth dist.	1461 Mar 14 j 11:13	26°♒26'41	0.63995 AU	
	1456 Feb 05 j 10:29	0°♓		direct	1461 Apr 20 j 05:10	18°♒12'48		
	1456 Mar 14 j 23:32	0°♋			1461 Jun 07 j 18:19	0°♌		
	1456 Apr 22 j 18:35	0°♌		desc. node	1461 Jun 16 j 16:11	3°♌58'55		
	1456 Jun 01 j 19:46	0°♍			1461 Aug 02 j 17:06	0°♎		
	1456 Jul 14 j 10:56	0°♎			1461 Sep 16 j 14:41	0°♏		
asc. node	1456 Aug 24 j 10:14	25°♎59'43			1461 Oct 27 j 09:08	0°♑		
	1456 Aug 31 j 08:01	0°♏			1461 Dec 05 j 04:07	0°♒		
retrograde	1456 Nov 21 j 10:41	29°♏23'09			1462 Jan 12 j 08:58	0°♋		
min. Earth dist.	1456 Dec 28 j 09:55	20°♏41'20	0.64850 AU		1462 Feb 20 j 01:50	0°♌		
opposition	1456 Dec 31 j 13:09	19°♏25'50	4°11'27	evening set	1462 Mar 12 j 01:22	15°♌07'41		
greatest brilliancy	1456 Dec 30 j 21:03	19°♏42'00	-1.4m		1462 Apr 01 j 02:50	0°♍		
direct	1457 Feb 08 j 16:47	10°♏09'05		asc. node	1462 Apr 16 j 07:28	11°♍02'23		
	1457 Apr 18 j 10:18	0°♐						
	1457 Jun 13 j 23:18	0°♑		conjunction	1462 May 11 j 14:29	28°♍59'19	0°15'41	
	1457 Aug 02 j 04:29	0°♒		minimum elong	1462 May 11 j 13:33	28°♍57'42	0°15'40	
desc. node	1457 Sep 11 j 18:57	26°♒48'15		behind sun begin	1462 May 11 j 10:18	28°♍52'01		
	1457 Sep 16 j 10:59	0°♓		behind sun end	1462 May 11 j 16:49	29°♍03'23		
	1457 Oct 28 j 18:08	0°♑			1462 May 13 j 01:14	0°♎		
evening set	1457 Oct 31 j 04:31	1°♑46'47		max. Earth dist.	1462 Jun 13 j 09:00	21°♎29'11	2.55616 AU	
max. Earth dist.	1457 Nov 19 j 02:46	15°♑49'08	2.41090 AU		1462 Jun 26 j 01:57	0°♏		
	1457 Dec 07 j 19:55	0°♒		morning rise	1462 Jul 04 j 22:59	5°♏53'03		
					1462 Aug 11 j 03:06	0°♐		
conjunction	1457 Dec 27 j 23:13	15°♒32'12	0°-56'-50		1462 Sep 28 j 03:06	0°♑		
minimum elong	1457 Dec 27 j 21:04	15°♒28'01	0°56'50		1462 Nov 17 j 19:22	0°♒		
	1458 Jan 15 j 11:24	0°♓			1463 Jan 14 j 20:53	0°♓		
	1458 Feb 22 j 13:30	0°♋		retrograde	1463 Mar 15 j 01:28	15°♓41'00		
morning rise	1458 Mar 05 j 06:05	8°♋24'08		opposition	1463 Apr 20 j 02:39	8°♓03'42	0°40'33	
	1458 Apr 01 j 23:42	0°♌		greatest brilliancy	1463 Apr 20 j 10:41	7°♓56'23	-1.9m	
	1458 May 11 j 14:46	0°♍		min. Earth dist.	1463 Apr 27 j 23:00	5°♓12'57	0.54035 AU	
	1458 Jun 22 j 06:40	0°♎		desc. node	1463 May 04 j 15:09	2°♓58'46		
asc. node	1458 Jul 12 j 08:24	13°♎47'26			1463 May 16 j 11:53	30°♓♌		
	1458 Aug 05 j 21:35	0°♏		direct	1463 May 29 j 16:12	28°♓48'09		
	1458 Sep 24 j 09:57	0°♐			1463 Jun 12 j 07:54	0°♔		
	1458 Dec 01 j 09:17	0°♑			1463 Aug 19 j 13:45	0°♑		
retrograde	1458 Dec 25 j 22:55	3°♑22'54			1463 Oct 03 j 01:33	0°♒		
	1459 Jan 17 j 16:03	30°♒♏			1463 Nov 12 j 10:05	0°♓		
opposition	1459 Feb 03 j 21:56	23°♒46'44	4°30'39		1463 Dec 21 j 15:08	0°♋		
greatest brilliancy	1459 Feb 04 j 00:26	23°♒44'15	-1.2m		1464 Jan 30 j 05:07	0°♌		
min. Earth dist.	1459 Feb 04 j 15:47	23°♒28'56	0.67733 AU	asc. node	1464 Mar 03 j 05:57	24°♌20'03		
direct	1459 Mar 16 j 20:59	13°♒53'44			1464 Mar 11 j 02:21	0°♍		

	1464 Apr 22 j 19:03	0°♁			1469 Mar 07 j 08:59	0°♁		
evening set	1464 May 05 j 17:09	8°♁49'17			1469 Apr 16 j 17:32	0°♁		
	1464 Jun 06 j 08:52	0°♁			1469 May 27 j 17:43	0°♁		
conjunction	1464 Jun 26 j 04:17	12°♁59'09	0°57'41		1469 Jul 11 j 01:48	0°♁		
minimum elong	1464 Jun 26 j 02:59	12°♁57'03	0°57'40	retrograde	1469 Sep 15 j 06:37	0°♁		
max. Earth dist.	1464 Jul 10 j 01:59	22°♁00'15	2.64272 AU		1469 Sep 28 j 16:24	1°♁15'13		
	1464 Jul 22 j 12:05	0°♁		asc. node	1469 Oct 11 j 15:10	30°♁		
morning rise	1464 Aug 12 j 13:28	13°♁27'22		min. Earth dist.	1469 Oct 24 j 02:21	26°♁38'44	0.50742 AU	
	1464 Sep 07 j 16:05	0°♁		opposition	1469 Oct 28 j 15:00	25°♁03'38	0.50742 AU	
	1464 Oct 25 j 12:06	0°♁		greatest brilliancy	1469 Nov 05 j 09:51	22°♁09'22	0°37'53	
	1464 Dec 13 j 04:41	0°♁		direct	1469 Nov 05 j 02:21	22°♁16'23	-2.1m	
	1465 Feb 02 j 04:34	0°♁			1469 Dec 09 j 18:38	14°♁41'57		
desc. node	1465 Mar 21 j 13:34	24°♁19'10			1470 Feb 04 j 15:08	0°♁		
	1465 Apr 04 j 08:17	0°♁			1470 Apr 03 j 20:06	0°♁		
retrograde	1465 May 15 j 16:33	8°♁48'29			1470 May 25 j 10:06	0°♁		
opposition	1465 Jun 16 j 04:23	3°♁13'49	-4°-44'-32		1470 Jul 13 j 11:57	0°♁		
greatest brilliancy	1465 Jun 17 j 16:35	2°♁46'54	-2.6m	evening set	1470 Aug 29 j 11:28	0°♁		
min. Earth dist.	1465 Jun 22 j 22:52	1°♁13'28	0.41122 AU	max. Earth dist.	1470 Aug 31 j 09:13	1°♁14'51		
	1465 Jun 27 j 08:07	30°♁			1470 Sep 20 j 17:17	14°♁42'39	2.57982 AU	
direct	1465 Jul 19 j 23:22	26°♁42'13			1470 Oct 13 j 06:36	0°♁		
	1465 Aug 11 j 04:46	0°♁		conjunction	1470 Oct 17 j 14:46	2°♁59'13	0°14'45	
	1465 Oct 10 j 06:22	0°♁		minimum elong	1470 Oct 17 j 15:21	3°♁00'12	0°14'45	
	1465 Nov 23 j 18:01	0°♁		behind sun begin	1470 Oct 17 j 06:53	2°♁45'38		
	1466 Jan 05 j 08:36	0°♁		behind sun end	1470 Oct 17 j 23:48	3°♁14'47		
asc. node	1466 Jan 19 j 05:01	9°♁43'32		desc. node	1470 Nov 11 j 11:29	20°♁22'53		
	1466 Feb 17 j 09:44	0°♁			1470 Nov 24 j 22:30	0°♁		
	1466 Apr 02 j 17:12	0°♁		morning rise	1470 Dec 06 j 01:30	8°♁03'16		
	1466 May 18 j 10:21	0°♁			1471 Jan 04 j 18:24	0°♁		
evening set	1466 Jun 17 j 21:50	19°♁36'30			1471 Feb 13 j 06:22	0°♁		
	1466 Jul 04 j 04:26	0°♁			1471 Mar 24 j 02:45	0°♁		
conjunction	1466 Aug 03 j 19:02	19°♁29'00	1°09'00		1471 May 02 j 04:40	0°♁		
minimum elong	1466 Aug 03 j 19:09	19°♁29'12	1°08'59		1471 Jun 11 j 15:28	0°♁		
max. Earth dist.	1466 Aug 03 j 01:03	19°♁00'24	2.67554 AU	asc. node	1471 Jul 25 j 06:17	0°♁		
	1466 Aug 20 j 07:25	0°♁			1471 Sep 11 j 02:05	27°♁55'10		
morning rise	1466 Sep 17 j 09:29	17°♁56'44			1471 Sep 15 j 07:53	0°♁		
	1466 Oct 06 j 03:34	0°♁		retrograde	1471 Nov 08 j 11:40	15°♁15'02		
	1466 Nov 21 j 07:20	0°♁		min. Earth dist.	1471 Dec 13 j 16:35	7°♁08'56	0.61952 AU	
	1467 Jan 05 j 17:32	0°♁		greatest brilliancy	1471 Dec 17 j 10:45	5°♁38'58	-1.5m	
desc. node	1467 Feb 06 j 13:32	21°♁14'06		opposition	1471 Dec 18 j 07:40	5°♁18'05	3°39'19	
	1467 Feb 19 j 16:09	0°♁			1472 Jan 01 j 23:10	30°♁		
	1467 Apr 05 j 19:14	0°♁		direct	1472 Jan 25 j 09:32	26°♁23'28		
	1467 May 23 j 14:47	0°♁			1472 Feb 20 j 02:53	0°♁		
retrograde	1467 Aug 03 j 14:46	26°♁17'22			1472 Apr 30 j 09:22	0°♁		
min. Earth dist.	1467 Aug 30 j 11:19	21°♁50'08	0.38794 AU		1472 Jun 22 j 08:10	0°♁		
opposition	1467 Sep 04 j 18:57	20°♁17'58	-5°-26'-17		1472 Aug 09 j 14:20	0°♁		
greatest brilliancy	1467 Sep 03 j 15:26	20°♁37'53	-2.8m	desc. node	1472 Sep 23 j 14:35	0°♁		
direct	1467 Oct 04 j 15:32	15°♁04'54			1472 Sep 28 j 10:00	3°♁19'18		
	1467 Nov 27 j 04:23	0°♁		evening set	1472 Oct 11 j 19:27	12°♁41'33		
asc. node	1467 Dec 07 j 04:02	4°♁54'07		max. Earth dist.	1472 Oct 26 j 15:24	23°♁16'04	2.46176 AU	
	1468 Jan 20 j 21:49	0°♁			1472 Nov 04 j 22:23	0°♁		
	1468 Mar 10 j 01:11	0°♁		conjunction	1472 Dec 04 j 07:10	21°♁46'37	0°-39'-14	
	1468 Apr 27 j 08:21	0°♁		minimum elong	1472 Dec 04 j 05:13	21°♁42'57	0°39'15	
	1468 Jun 14 j 11:39	0°♁			1472 Dec 15 j 03:39	0°♁		
evening set	1468 Jul 24 j 19:09	25°♁20'30			1473 Jan 22 j 23:21	0°♁		
	1468 Aug 01 j 03:28	0°♁		morning rise	1473 Feb 03 j 13:35	9°♁04'50		
max. Earth dist.	1468 Aug 25 j 05:34	15°♁23'48	2.65392 AU		1473 Mar 02 j 04:53	0°♁		
conjunction	1468 Sep 08 j 07:58	24°♁30'35	0°53'40	greatest brilliancy	1473 Mar 08 j 01:07	4°♁34'59	1.2m	
minimum elong	1468 Sep 08 j 09:05	24°♁32'24	0°53'39		1473 Apr 09 j 17:19	0°♁		
	1468 Sep 16 j 18:15	0°♁			1473 May 19 j 10:16	0°♁		
morning rise	1468 Oct 23 j 07:45	24°♁12'58		asc. node	1473 Jun 30 j 06:35	0°♁		
	1468 Oct 31 j 21:39	0°♁			1473 Jul 29 j 01:46	19°♁25'04		
	1468 Dec 14 j 10:23	0°♁			1473 Aug 14 j 13:46	0°♁		
desc. node	1468 Dec 24 j 13:12	7°♁07'43			1473 Oct 05 j 23:29	0°♁		
	1469 Jan 25 j 11:32	0°♁		retrograde	1473 Dec 12 j 14:32	20°♁38'47		
				opposition	1474 Jan 21 j 18:03	10°♁51'18	4°33'05	

min. Earth dist.	1474 Jan 20 j 23:03	11°♈10'20	0.67381 AU		1479 May 01 j 02:04	0°♈	
greatest brilliancy	1474 Jan 21 j 12:47	10°♈56'35	-1.2m				
direct	1474 Mar 03 j 04:03	1°♈09'21		conjunction	1479 Jun 10 j 10:43	27°♈23'19	0°45'13
	1474 May 28 j 18:07	0°♈		minimum elong	1479 Jun 10 j 09:08	27°♈20'40	0°45'13
	1474 Jul 19 j 23:41	0°♈			1479 Jun 14 j 09:02	0°♈	
desc. node	1474 Aug 16 j 09:09	17°♈27'49		max. Earth dist.	1479 Jul 01 j 03:47	11°♈03'30	2.61505 AU
	1474 Sep 04 j 03:23	0°♈		morning rise	1479 Jul 29 j 22:23	29°♈42'12	
	1474 Oct 16 j 15:33	0°♈			1479 Jul 30 j 09:29	0°♈	
	1474 Nov 25 j 16:02	0°♈			1479 Sep 15 j 18:13	0°♈	
evening set	1474 Dec 05 j 22:48	7°♈55'29			1479 Nov 03 j 08:32	0°♈	
	1475 Jan 03 j 04:26	0°♈			1479 Dec 24 j 01:42	0°♈	
					1480 Feb 19 j 19:04	0°♈	
conjunction	1475 Feb 09 j 06:36	29°♈18'00	-1°-2'-54	desc. node	1480 Apr 07 j 06:11	14°♈50'10	
minimum elong	1475 Feb 09 j 08:11	29°♈21'09	1°02'55	retrograde	1480 Apr 17 j 23:34	15°♈30'58	
	1475 Feb 10 j 03:53	0°♈		opposition	1480 May 21 j 11:45	9°♈04'14	-2°-21'-14
max. Earth dist.	1475 Mar 17 j 20:58	27°♈56'37	2.37835 AU	greatest brilliancy	1480 May 22 j 13:07	8°♈43'24	-2.3m
	1475 Mar 20 j 12:50	0°♈		min. Earth dist.	1480 May 29 j 21:44	6°♈19'08	0.45962 AU
morning rise	1475 Apr 20 j 13:23	23°♈36'14		direct	1480 Jun 27 j 03:48	1°♈11'55	
	1475 Apr 29 j 03:27	0°♈			1480 Sep 10 j 14:46	0°♈	
	1475 Jun 09 j 16:26	0°♈			1480 Oct 25 j 00:49	0°♈	
asc. node	1475 Jun 16 j 00:00	4°♈25'00			1480 Dec 05 j 03:56	0°♈	
	1475 Jul 23 j 17:50	0°♈			1481 Jan 15 j 00:56	0°♈	
	1475 Sep 09 j 02:25	0°♈		asc. node	1481 Feb 04 j 20:36	15°♈01'56	
	1475 Nov 01 j 13:00	0°♈			1481 Feb 25 j 22:37	0°♈	
retrograde	1476 Jan 16 j 14:13	23°♈55'21			1481 Apr 10 j 10:37	0°♈	
opposition	1476 Feb 24 j 22:14	14°♈43'13	4°02'32		1481 May 25 j 14:28	0°♈	
greatest brilliancy	1476 Feb 25 j 11:34	14°♈30'04	-1.3m	evening set	1481 Jun 02 j 02:01	4°♈52'51	
min. Earth dist.	1476 Feb 28 j 00:13	13°♈30'23	0.66238 AU		1481 Jul 11 j 00:51	0°♈	
direct	1476 Apr 06 j 07:20	4°♈41'36					
	1476 Jun 22 j 21:47	0°♈		conjunction	1481 Jul 20 j 07:19	5°♈55'31	1°07'58
desc. node	1476 Jul 03 j 07:56	5°♈40'44		minimum elong	1481 Jul 20 j 06:53	5°♈54'49	1°07'58
	1476 Aug 12 j 09:04	0°♈		max. Earth dist.	1481 Jul 25 j 00:07	8°♈55'33	2.66930 AU
	1476 Sep 25 j 02:46	0°♈			1481 Aug 27 j 02:33	0°♈	
	1476 Nov 04 j 11:46	0°♈		morning rise	1481 Sep 03 j 14:12	4°♈45'39	
	1476 Dec 13 j 02:22	0°♈			1481 Oct 13 j 05:20	0°♈	
	1477 Jan 20 j 03:33	0°♈			1481 Nov 29 j 02:29	0°♈	
evening set	1477 Feb 13 j 14:11	19°♈07'16			1482 Jan 14 j 22:24	0°♈	
	1477 Feb 27 j 16:09	0°♈		desc. node	1482 Feb 23 j 05:28	24°♈52'32	
	1477 Apr 08 j 12:15	0°♈			1482 Mar 03 j 11:08	0°♈	
					1482 Apr 23 j 07:54	0°♈	
conjunction	1477 Apr 19 j 09:45	7°♈58'46	0°-8'-40	retrograde	1482 Jul 04 j 15:49	24°♈38'06	
minimum elong	1477 Apr 19 j 10:23	7°♈59'54	0°08'40	opposition	1482 Aug 03 j 19:20	19°♈36'56	-6°-52'00
behind sun begin	1477 Apr 18 j 12:19	7°♈19'45		greatest brilliancy	1482 Aug 03 j 19:59	19°♈36'30	-2.9m
behind sun end	1477 Apr 20 j 08:27	8°♈40'00		min. Earth dist.	1482 Aug 03 j 12:06	19°♈41'43	0.37306 AU
asc. node	1477 May 02 j 22:58	17°♈45'21		direct	1482 Sep 02 j 12:30	14°♈40'54	
	1477 May 20 j 05:50	0°♈			1482 Oct 25 j 13:24	0°♈	
max. Earth dist.	1477 May 30 j 19:21	7°♈21'21	2.50907 AU		1482 Dec 16 j 18:31	0°♈	
morning rise	1477 Jun 17 j 01:57	19°♈11'32		asc. node	1482 Dec 23 j 19:25	4°♈25'21	
	1477 Jul 03 j 03:55	0°♈			1483 Feb 01 j 16:09	0°♈	
	1477 Aug 18 j 08:03	0°♈			1483 Mar 20 j 02:41	0°♈	
	1477 Oct 06 j 00:55	0°♈			1483 May 06 j 02:22	0°♈	
	1477 Nov 28 j 03:57	0°♈			1483 Jun 22 j 13:25	0°♈	
retrograde	1478 Feb 24 j 13:36	29°♈50'13		evening set	1483 Jul 11 j 09:23	11°♈53'38	
opposition	1478 Apr 02 j 20:16	21°♈38'40	2°01'41		1483 Aug 08 j 22:32	0°♈	
greatest brilliancy	1478 Apr 03 j 14:18	21°♈21'41	-1.6m	max. Earth dist.	1483 Aug 17 j 02:54	5°♈13'03	2.66876 AU
min. Earth dist.	1478 Apr 09 j 13:35	19°♈07'02	0.58587 AU				
direct	1478 May 13 j 10:41	11°♈55'49		conjunction	1483 Aug 26 j 02:31	10°♈57'55	1°02'33
desc. node	1478 May 21 j 06:32	12°♈19'15		minimum elong	1483 Aug 26 j 03:22	10°♈59'17	1°02'32
	1478 Jul 12 j 18:50	0°♈			1483 Sep 24 j 13:59	0°♈	
	1478 Aug 31 j 19:26	0°♈		morning rise	1483 Oct 09 j 13:04	9°♈46'57	
	1478 Oct 13 j 01:26	0°♈			1483 Nov 09 j 00:42	0°♈	
	1478 Nov 21 j 12:48	0°♈			1483 Dec 23 j 03:23	0°♈	
	1478 Dec 30 j 04:41	0°♈		desc. node	1484 Jan 11 j 04:25	13°♈13'41	
	1479 Feb 07 j 07:33	0°♈			1484 Feb 04 j 00:14	0°♈	
	1479 Mar 19 j 18:35	0°♈			1484 Mar 16 j 22:46	0°♈	
asc. node	1479 Mar 20 j 22:36	0°♈50'47			1484 Apr 27 j 15:49	0°♈	
evening set	1479 Apr 17 j 00:15	20°♈10'30			1484 Jun 09 j 23:51	0°♈	

	1484 Aug 01 j 15:29	0°♄			1489 Sep 11 j 14:44	0°♆		
retrograde	1484 Sep 09 j 06:15	9°♄20'59			1489 Oct 24 j 00:02	0°♄		
min. Earth dist.	1484 Oct 07 j 01:45	4°♄01'40	0.45486 AU	evening set	1489 Nov 12 j 08:02	14°♄17'49		
opposition	1484 Oct 15 j 05:39	1°♄12'09	-1°-27'-4		1489 Dec 03 j 01:40	0°♄		
greatest brilliancy	1484 Oct 14 j 14:27	1°♄25'23	-2.4m	max. Earth dist.	1489 Dec 11 j 00:56	6°♄07'20	2.38620 AU	
	1484 Oct 18 j 17:58	30°♄			1490 Jan 10 j 16:18	0°♄		
asc. node	1484 Nov 09 j 19:34	24°♄55'17						
direct	1484 Nov 16 j 19:22	24°♄35'27		conjunction	1490 Jan 11 j 20:31	0°♄55'26	-1°-3'-1	
	1484 Dec 17 j 13:27	0°♄		minimum elong	1490 Jan 11 j 19:12	0°♄52'51	1°03'01	
	1485 Feb 20 j 04:31	0°♄			1490 Feb 17 j 17:24	0°♄		
	1485 Apr 13 j 09:14	0°♄		morning rise	1490 Mar 22 j 10:50	25°♄37'12		
	1485 Jun 02 j 04:26	0°♄			1490 Mar 28 j 02:38	0°♄		
	1485 Jul 20 j 13:39	0°♄			1490 May 06 j 16:41	0°♄		
evening set	1485 Aug 16 j 12:40	17°♄08'58			1490 Jun 17 j 05:59	0°♄		
	1485 Sep 05 j 08:21	0°♄		asc. node	1490 Jul 02 j 16:43	10°♄42'16		
max. Earth dist.	1485 Sep 09 j 18:44	2°♄54'21	2.61480 AU		1490 Jul 31 j 13:19	0°♄		
					1490 Sep 17 j 23:35	0°♄		
conjunction	1485 Oct 01 j 16:40	17°♄26'55	0°32'22		1490 Nov 16 j 00:09	0°♄		
minimum elong	1485 Oct 01 j 17:42	17°♄28'39	0°32'22	retrograde	1491 Jan 02 j 16:51	11°♄07'09		
	1485 Oct 20 j 05:33	0°♄		opposition	1491 Feb 11 j 11:45	1°♄38'30	4°23'45	
morning rise	1485 Nov 17 j 18:08	19°♄46'52		greatest brilliancy	1491 Feb 11 j 18:20	1°♄31'57	-1.2m	
desc. node	1485 Nov 28 j 03:14	27°♄07'17		min. Earth dist.	1491 Feb 13 j 01:30	1°♄01'00	0.67483 AU	
	1485 Dec 02 j 04:11	0°♄			1491 Feb 15 j 15:19	30°♄		
	1486 Jan 12 j 09:21	0°♄		direct	1491 Mar 24 j 16:08	21°♄41'10		
	1486 Feb 21 j 07:34	0°♄			1491 May 04 j 10:52	0°♄		
	1486 Apr 01 j 14:04	0°♄			1491 Jul 04 j 23:41	0°♄		
	1486 May 11 j 02:59	0°♄		desc. node	1491 Jul 21 j 00:07	9°♄31'52		
	1486 Jun 21 j 07:48	0°♄			1491 Aug 22 j 00:48	0°♄		
	1486 Aug 06 j 00:37	0°♄			1491 Oct 04 j 02:39	0°♄		
asc. node	1486 Sep 27 j 18:46	25°♄18'09			1491 Nov 13 j 06:26	0°♄		
retrograde	1486 Oct 24 j 15:38	29°♄48'27			1491 Dec 21 j 19:00	0°♄		
min. Earth dist.	1486 Nov 26 j 22:19	22°♄23'00	0.58143 AU	evening set	1492 Jan 17 j 09:17	21°♄00'37		
opposition	1486 Dec 02 j 23:08	20°♄00'28	2°48'28		1492 Jan 28 j 18:32	0°♄		
greatest brilliancy	1486 Dec 02 j 01:12	20°♄22'04	-1.7m		1492 Mar 07 j 04:37	0°♄		
direct	1487 Jan 08 j 17:52	11°♄34'00						
	1487 Mar 14 j 16:42	0°♄		conjunction	1492 Mar 25 j 01:54	13°♄40'04	0°-34'-30	
	1487 May 11 j 06:00	0°♄		minimum elong	1492 Mar 25 j 04:33	13°♄45'05	0°34'30	
	1487 Jul 01 j 04:09	0°♄			1492 Apr 15 j 21:26	0°♄		
	1487 Aug 17 j 19:07	0°♄		max. Earth dist.	1492 May 13 j 05:14	19°♄52'50	2.45659 AU	
evening set	1487 Sep 25 j 07:19	25°♄38'13		asc. node	1492 May 19 j 15:00	24°♄26'44		
	1487 Oct 01 j 16:07	0°♄		morning rise	1492 May 27 j 21:00	0°♄		
max. Earth dist.	1487 Oct 10 j 22:15	6°♄24'23	2.51195 AU		1492 May 27 j 11:44	0°♄		
desc. node	1487 Oct 16 j 01:45	10°♄00'09			1492 Jul 10 j 08:45	0°♄		
	1487 Nov 13 j 02:22	0°♄			1492 Aug 25 j 19:00	0°♄		
					1492 Oct 14 j 14:14	0°♄		
conjunction	1487 Nov 14 j 14:50	1°♄06'13	0°-17'-57		1492 Dec 11 j 10:46	0°♄		
minimum elong	1487 Nov 14 j 13:57	1°♄04'38	0°17'56	retrograde	1493 Feb 07 j 23:36	15°♄22'42		
	1487 Dec 23 j 12:26	0°♄		opposition	1493 Mar 18 j 05:55	6°♄43'21	3°01'27	
morning rise	1488 Jan 09 j 04:42	12°♄43'02		greatest brilliancy	1493 Mar 19 j 01:25	6°♄24'33	-1.5m	
	1488 Jan 31 j 13:24	0°♄		min. Earth dist.	1493 Mar 23 j 14:39	4°♄39'28	0.62348 AU	
	1488 Mar 09 j 23:21	0°♄			1493 Apr 06 j 06:14	30°♄		
	1488 Apr 17 j 15:04	0°♄		direct	1493 Apr 28 j 10:19	26°♄46'17		
	1488 May 27 j 11:44	0°♄			1493 May 22 j 01:52	0°♄		
	1488 Jul 08 j 16:50	0°♄		desc. node	1493 Jun 06 j 23:04	5°♄05'55		
asc. node	1488 Aug 14 j 17:08	24°♄11'22			1493 Jul 26 j 17:12	0°♄		
	1488 Aug 24 j 05:53	0°♄			1493 Sep 10 j 20:41	0°♄		
	1488 Oct 22 j 22:35	0°♄			1493 Oct 22 j 01:01	0°♄		
retrograde	1488 Nov 29 j 05:33	7°♄35'37			1493 Nov 30 j 00:35	0°♄		
	1489 Jan 02 j 14:05	30°♄			1494 Jan 07 j 08:11	0°♄		
min. Earth dist.	1489 Jan 06 j 02:30	28°♄36'10	0.66028 AU		1494 Feb 15 j 03:15	0°♄		
opposition	1489 Jan 08 j 10:00	27°♄40'28	4°23'24	evening set	1494 Mar 25 j 21:18	28°♄59'15		
greatest brilliancy	1489 Jan 07 j 21:25	27°♄53'06	-1.3m		1494 Mar 27 j 06:30	0°♄		
direct	1489 Feb 17 j 02:08	18°♄13'34		asc. node	1494 Apr 06 j 13:36	7°♄29'13		
	1489 Apr 08 j 07:45	0°♄			1494 May 08 j 06:50	0°♄		
	1489 Jun 07 j 22:34	0°♄						
	1489 Jul 28 j 01:08	0°♄		conjunction	1494 May 23 j 01:52	10°♄13'29	0°27'55	
desc. node	1489 Sep 02 j 00:34	23°♄29'14		minimum elong	1494 May 23 j 00:28	10°♄11'05	0°27'54	

max. Earth dist.	1494 Jun 20 j 09:04	29°II20'47	2.57942 AU	direct	1499 Oct 21 j 17:30	0°Υ52'37	
	1494 Jun 21 j 08:38	0°☾		asc. node	1499 Nov 27 j 10:50	8°Υ28'48	
morning rise	1494 Jul 14 j 10:20	15°☽11'48			1500 Jan 11 j 19:20	0°♄	
	1494 Aug 06 j 08:17	0°♁			1500 Mar 03 j 15:27	0°♂	
	1494 Sep 23 j 00:59	0°♆			1500 Apr 21 j 23:36	0°☾	
	1494 Nov 11 j 18:15	0°♃			1500 Jun 09 j 14:42	0°♁	
	1495 Jan 05 j 00:20	0°♂			1500 Jul 27 j 12:00	0°♆	
retrograde	1495 Mar 26 j 16:23	26°♂01'34		evening set	1500 Aug 02 j 01:11	3°♆31'17	
desc. node	1495 Apr 24 j 21:18	20°♂51'30		max. Earth dist.	1500 Aug 30 j 18:33	21°♆56'22	2.64206 AU
opposition	1495 Apr 30 j 22:59	18°♂46'44	0°-17'-51		1500 Sep 12 j 03:59	0°♃	
greatest brilliancy	1495 Apr 28 j 03:20	19°♂45'48	-2.0m				
min. Earth dist.	1495 May 09 j 06:18	15°♂51'24	0.51254 AU	conjunction	1500 Sep 16 j 16:23	2°♃57'26	0°46'49
direct	1495 Jun 08 j 17:05	9°♂54'28		minimum elong	1500 Sep 16 j 17:33	2°♃59'21	0°46'48
	1495 Aug 09 j 16:00	0°♂			1500 Oct 27 j 05:07	0°♂	
	1495 Sep 26 j 00:35	0°♂		morning rise	1500 Nov 01 j 05:29	3°♂24'49	
	1495 Nov 06 j 06:55	0°♂			1500 Dec 09 j 12:46	0°♂	
	1495 Dec 15 j 23:35	0°♂		desc. node	1500 Dec 14 j 18:38	3°♂42'44	
	1496 Jan 24 j 21:26	0°Υ			1501 Jan 20 j 06:20	0°♂	
asc. node	1496 Feb 22 j 13:35	21°Υ01'43			1501 Mar 01 j 18:35	0°♂	
	1496 Mar 06 j 00:59	0°♄			1501 Apr 10 j 16:02	0°♂	
	1496 Apr 17 j 22:35	0°♂			1501 May 20 j 23:17	0°Υ	
evening set	1496 May 16 j 02:07	19°♂00'50			1501 Jul 02 j 15:23	0°♄	
	1496 Jun 01 j 15:56	0°☾			1501 Aug 23 j 00:08	0°♂	
				retrograde	1501 Oct 08 j 13:59	12°♂34'01	
conjunction	1496 Jul 05 j 05:28	21°☽52'16	1°02'45	asc. node	1501 Oct 14 j 10:37	12°♂18'48	
minimum elong	1496 Jul 05 j 04:28	21°☽50'38	1°02'45	min. Earth dist.	1501 Nov 08 j 17:59	5°♂54'58	0.53530 AU
max. Earth dist.	1496 Jul 15 j 16:49	28°☽36'55	2.65445 AU	greatest brilliancy	1501 Nov 15 j 08:22	3°♂23'29	-1.9m
	1496 Jul 17 j 20:35	0°♁		opposition	1501 Nov 16 j 00:29	3°♂08'02	1°34'01
morning rise	1496 Aug 20 j 17:04	21°♁36'01			1501 Nov 24 j 15:42	30°♂	
	1496 Sep 02 j 22:58	0°♆		direct	1501 Dec 21 j 06:51	25°♂17'18	
	1496 Oct 20 j 11:27	0°♃			1502 Jan 19 j 11:04	0°♂	
	1496 Dec 07 j 09:05	0°♂			1502 Mar 27 j 20:31	0°☾	
	1497 Jan 25 j 09:42	0°♂			1502 May 19 j 23:39	0°♁	
desc. node	1497 Mar 11 j 20:31	26°♂00'54			1502 Jul 08 j 15:12	0°♆	
	1497 Mar 19 j 09:42	0°♂			1502 Aug 24 j 19:58	0°♃	
retrograde	1497 Jun 02 j 00:41	24°♂25'16		evening set	1502 Sep 09 j 03:58	10°♃05'12	
opposition	1497 Jul 02 j 17:11	19°♂14'44	-5°-57'-50	max. Earth dist.	1502 Sep 27 j 11:33	22°♃22'10	2.55719 AU
greatest brilliancy	1497 Jul 03 j 23:44	18°♂53'22	-2.7m		1502 Oct 08 j 15:51	0°♂	
min. Earth dist.	1497 Jul 07 j 12:01	17°♂54'45	0.39043 AU				
direct	1497 Aug 03 j 16:00	13°♂29'03		conjunction	1502 Oct 27 j 07:02	12°♂56'29	0°03'20
	1497 Sep 26 j 19:25	0°♂		minimum elong	1502 Oct 27 j 07:08	12°♂56'40	0°03'20
	1497 Nov 15 j 06:39	0°♂		behind sun begin	1502 Oct 26 j 10:38	12°♂20'42	
	1497 Dec 29 j 15:05	0°Υ		behind sun end	1502 Oct 28 j 03:39	13°♂32'41	
asc. node	1498 Jan 09 j 12:23	7°Υ27'16		desc. node	1502 Nov 01 j 17:39	16°♂46'36	
	1498 Feb 11 j 14:37	0°♂			1502 Nov 20 j 05:54	0°♂	
	1498 Mar 28 j 11:51	0°♂		morning rise	1502 Dec 17 j 13:46	20°♂01'11	
	1498 May 13 j 13:36	0°☾			1502 Dec 30 j 22:11	0°♂	
evening set	1498 Jun 26 j 14:58	28°☽09'36			1503 Feb 08 j 05:58	0°♂	
	1498 Jun 29 j 12:26	0°♁			1503 Mar 18 j 22:12	0°♂	
max. Earth dist.	1498 Aug 08 j 07:08	25°♁16'43	2.67539 AU		1503 Apr 26 j 19:29	0°Υ	
					1503 Jun 05 j 23:19	0°♄	
conjunction	1498 Aug 11 j 23:20	27°♁37'05	1°07'43		1503 Jul 18 j 20:58	0°♂	
minimum elong	1498 Aug 11 j 23:46	27°♁37'47	1°07'43	asc. node	1503 Sep 01 j 09:44	27°♂30'57	
	1498 Aug 15 j 17:02	0°♆			1503 Sep 05 j 21:51	0°☾	
morning rise	1498 Sep 25 j 09:19	26°♆04'28		retrograde	1503 Nov 16 j 13:14	23°☽55'07	
	1498 Oct 01 j 11:08	0°♃		min. Earth dist.	1503 Dec 22 j 18:19	15°☽29'00	0.63679 AU
	1498 Nov 16 j 08:11	0°♂		opposition	1503 Dec 26 j 14:01	13°☽57'12	4°00'07
	1498 Dec 31 j 05:39	0°♂		greatest brilliancy	1503 Dec 25 j 19:21	14°☽15'53	-1.4m
desc. node	1499 Jan 27 j 20:01	18°♂44'31		direct	1504 Feb 03 j 07:26	4°☽49'48	
	1499 Feb 13 j 06:42	0°♂			1504 Apr 22 j 23:36	0°♁	
	1499 Mar 28 j 21:36	0°♂			1504 Jun 16 j 20:27	0°♆	
	1499 May 12 j 08:10	0°♂			1504 Aug 04 j 16:40	0°♃	
	1499 Jul 02 j 03:46	0°Υ		desc. node	1504 Sep 18 j 17:01	29°♃51'54	
retrograde	1499 Aug 18 j 11:50	13°Υ19'48			1504 Sep 18 j 21:44	0°♂	
min. Earth dist.	1499 Sep 14 j 00:10	8°Υ43'38	0.40748 AU	evening set	1504 Oct 22 j 12:19	23°♂39'12	
greatest brilliancy	1499 Sep 19 j 20:00	6°Υ55'52	-2.7m		1504 Oct 31 j 06:30	0°♂	
opposition	1499 Sep 21 j 01:52	6°Υ32'42	-4°00'-44	max. Earth dist.	1504 Nov 07 j 10:25	5°♂14'47	2.43329 AU

	1504 Dec 10 j 10:37	0°☾				1509 Sep 30 j 15:59	0°♃		
conjunction	1504 Dec 17 j 06:10	5°☾12'56	0°-50'-3			1509 Nov 21 j 03:42	0°♄		
minimum elong	1504 Dec 17 j 03:55	5°☾08'36	0°50'03	retrograde		1510 Jan 22 j 14:29	0°♃		
	1505 Jan 18 j 04:18	0°≈		opposition		1510 Mar 06 j 18:17	9°♃07'13		
morning rise	1505 Feb 20 j 00:22	25°≈49'21		greatest brilliancy		1510 Apr 12 j 10:03	1°♃13'29	1°17'38	
	1505 Feb 25 j 07:47	0°♃				1510 Apr 12 j 23:35	1°♃00'57	-1.8m	
	1505 Apr 04 j 18:11	0°♃		min. Earth dist.		1510 Apr 15 j 17:17	30°♃		
	1505 May 14 j 08:50	0°♃		desc. node		1510 Apr 19 j 19:45	28°♃29'35	0.56172 AU	
asc. node	1505 Jun 25 j 00:47	0°♃		direct		1510 May 11 j 13:10	22°♃32'55		
	1505 Jul 19 j 07:20	16°♃34'55				1510 May 22 j 12:43	21°♃43'44		
	1505 Aug 08 j 19:27	0°♃				1510 Jun 29 j 17:48	0°♃		
	1505 Sep 28 j 03:41	0°♃				1510 Aug 24 j 14:29	0°♃		
retrograde	1505 Dec 20 j 06:06	28°♃27'10				1510 Oct 06 j 23:49	0°☾		
opposition	1506 Jan 29 j 08:02	18°♃45'26	4°33'01			1510 Nov 15 j 22:06	0°≈		
greatest brilliancy	1506 Jan 29 j 07:02	18°♃46'26	-1.2m			1510 Dec 24 j 20:31	0°♃		
min. Earth dist.	1506 Jan 29 j 09:11	18°♃44'16	0.67714 AU	asc. node		1511 Feb 02 j 04:19	0°♃		
direct	1506 Mar 11 j 02:23	8°♃56'58				1511 Mar 11 j 05:21	27°♃23'52		
	1506 May 20 j 22:32	0°♃				1511 Mar 14 j 19:36	0°♃		
	1506 Jul 14 j 08:15	0°♃				1511 Apr 26 j 06:49	0°♃		
desc. node	1506 Aug 06 j 15:49	14°♃33'41		evening set		1511 Apr 28 j 11:28	1°♃30'48		
	1506 Aug 30 j 02:05	0°♃				1511 Jun 09 j 16:15	0°☾		
	1506 Oct 11 j 19:15	0°♃		conjunction		1511 Jun 20 j 04:19	6°♃55'40	0°53'02	
	1506 Nov 20 j 21:10	0°☾		minimum elong		1511 Jun 20 j 02:51	6°♃53'15	0°53'01	
evening set	1506 Dec 20 j 12:23	23°☾00'45		max. Earth dist.		1511 Jul 07 j 01:00	17°☾56'28	2.63137 AU	
	1506 Dec 29 j 09:40	0°≈				1511 Jul 25 j 17:10	0°♃		
	1507 Feb 05 j 08:53	0°♃		morning rise		1511 Aug 07 j 09:59	8°♃07'52		
conjunction	1507 Feb 25 j 17:23	16°♃00'09	0°-55'-58			1511 Sep 10 j 22:24	0°♃		
minimum elong	1507 Feb 25 j 20:18	16°♃05'52	0°55'57			1511 Oct 29 j 01:03	0°♃		
	1507 Mar 15 j 17:27	0°♃				1511 Dec 17 j 11:20	0°♃		
max. Earth dist.	1507 Apr 16 j 16:14	24°♃18'23	2.40271 AU	desc. node		1512 Feb 08 j 13:22	0°♃		
	1507 Apr 24 j 07:40	0°♃		retrograde		1512 Mar 28 j 11:53	21°♃56'28		
morning rise	1507 May 05 j 10:39	8°♃11'41		opposition		1512 May 03 j 01:01	28°♃34'48		
	1507 Jun 04 j 19:42	0°♃		greatest brilliancy		1512 Jun 04 j 09:41	22°♃37'01	-3°-41'-52	
asc. node	1507 Jun 06 j 07:08	1°♃02'19		min. Earth dist.		1512 Jun 05 j 19:58	22°♃10'16	-2.5m	
	1507 Jul 18 j 17:28	0°☾		direct		1512 Jun 12 j 04:06	20°♃12'06	0.43179 AU	
	1507 Sep 03 j 14:34	0°♃				1512 Jul 09 j 14:16	15°♃27'14		
	1507 Oct 25 j 05:30	0°♃				1512 Aug 28 j 13:25	0°☾		
retrograde	1508 Jan 06 j 13:29	0°♃				1512 Oct 16 j 18:59	0°≈		
	1508 Jan 24 j 20:19	1°♃53'13				1512 Nov 28 j 09:57	0°♃		
	1508 Feb 10 j 23:14	30°♃		asc. node		1513 Jan 09 j 02:22	0°♃		
opposition	1508 Mar 03 j 20:37	22°♃51'29	3°44'05			1513 Jan 26 j 04:12	12°♃10'34		
greatest brilliancy	1508 Mar 04 j 12:53	22°♃35'34	-1.3m			1513 Feb 20 j 12:42	0°♃		
min. Earth dist.	1508 Mar 07 j 18:25	21°♃19'49	0.65127 AU			1513 Apr 05 j 09:42	0°♃		
direct	1508 Apr 14 j 06:05	12°♃49'44		evening set		1513 May 20 j 19:33	0°☾		
	1508 Jun 14 j 02:43	0°♃				1513 Jun 11 j 05:55	13°☾52'29		
desc. node	1508 Jun 23 j 14:18	4°♃41'38				1513 Jul 06 j 09:23	0°♃		
	1508 Aug 06 j 07:46	0°♃		conjunction		1513 Jul 28 j 15:50	14°♃11'57	1°09'02	
	1508 Sep 19 j 17:56	0°♃		minimum elong		1513 Jul 28 j 15:44	14°♃11'47	1°09'03	
	1508 Oct 30 j 08:55	0°☾		max. Earth dist.		1513 Jul 30 j 06:59	15°♃14'16	2.67381 AU	
	1508 Dec 08 j 02:17	0°≈				1513 Aug 22 j 11:34	0°♃		
	1509 Jan 15 j 05:20	0°♃		morning rise		1513 Sep 11 j 12:16	12°♃46'04		
	1509 Feb 22 j 19:30	0°♃				1513 Oct 08 j 10:29	0°♃		
evening set	1509 Feb 28 j 19:44	4°♃35'47				1513 Nov 23 j 21:39	0°♃		
	1509 Apr 03 j 17:08	0°♃				1514 Jan 08 j 21:25	0°♃		
asc. node	1509 Apr 23 j 06:59	14°♃14'26		desc. node		1514 Feb 13 j 11:38	23°♃16'57		
conjunction	1509 May 02 j 08:14	20°♃42'53	0°05'45			1514 Feb 23 j 18:54	0°☾		
minimum elong	1509 May 02 j 07:50	20°♃42'10	0°05'45			1514 Apr 11 j 17:05	0°≈		
behind sun begin	1509 May 01 j 08:28	20°♃00'37		retrograde		1514 Jun 03 j 23:42	0°♃		
behind sun end	1509 May 03 j 07:12	21°♃23'41		min. Earth dist.		1514 Jul 22 j 01:07	13°♃02'59		
	1509 May 15 j 11:59	0°♃		greatest brilliancy		1514 Aug 18 j 20:04	8°♃31'14	0.37753 AU	
max. Earth dist.	1509 Jun 07 j 23:54	16°♃14'03	2.53587 AU	opposition		1514 Aug 21 j 09:42	7°♃48'53	-2.9m	
morning rise	1509 Jun 27 j 12:13	29°♃23'49		direct		1514 Aug 22 j 03:38	7°♃36'32	-6°-18'-22	
	1509 Jun 28 j 09:55	0°☾				1514 Sep 20 j 17:11	2°♃38'01		
	1509 Aug 13 j 10:46	0°♃		asc. node		1514 Dec 06 j 10:58	0°♃		
						1514 Dec 14 j 03:36	4°♃21'46		

	1515 Jan 25 j 14:43	0°♄		morning rise	1520 Jan 23 j 13:30	27°♁32'28	
	1515 Mar 14 j 08:34	0°♁			1520 Jan 26 j 17:15	0°♁	
	1515 Apr 30 j 23:52	0°♁			1520 Mar 05 j 00:49	0°♁	
	1515 Jun 17 j 19:14	0°♁			1520 Apr 12 j 14:08	0°♁	
evening set	1515 Jul 19 j 15:48	20°♁03'38			1520 May 22 j 07:22	0°♄	
	1515 Aug 04 j 08:12	0°♁			1520 Jul 03 j 05:19	0°♁	
max. Earth dist.	1515 Aug 22 j 10:21	11°♁32'50	2.66160 AU	asc. node	1520 Aug 05 j 01:03	21°♁54'52	
					1520 Aug 17 j 20:23	0°♁	
conjunction	1515 Sep 03 j 05:05	19°♁07'18	0°57'48		1520 Oct 11 j 03:05	0°♁	
minimum elong	1515 Sep 03 j 06:07	19°♁08'58	0°57'48	retrograde	1520 Dec 06 j 22:11	15°♁36'10	
	1515 Sep 19 j 23:43	0°♁		min. Earth dist.	1521 Jan 14 j 15:26	6°♁20'30	0.66902 AU
morning rise	1515 Oct 17 j 21:19	18°♁21'33		opposition	1521 Jan 16 j 03:08	5°♁44'43	4°30'38
	1515 Nov 04 j 07:01	0°♁		greatest brilliancy	1521 Jan 15 j 18:27	5°♁53'26	-1.3m
	1515 Dec 18 j 02:22	0°♁			1521 Jan 31 j 18:22	30°R♁	
desc. node	1516 Jan 01 j 11:22	10°♁03'59		direct	1521 Feb 25 j 06:21	26°♁09'04	
	1516 Jan 29 j 12:13	0°♁			1521 Mar 24 j 01:58	0°♁	
	1516 Mar 10 j 19:53	0°♁			1521 Jun 01 j 11:23	0°♁	
	1516 Apr 20 j 16:33	0°♁			1521 Jul 22 j 18:53	0°♁	
	1516 Jun 01 j 10:20	0°♁		desc. node	1521 Aug 23 j 07:26	20°♁17'33	
	1516 Jul 17 j 18:25	0°♁			1521 Sep 06 j 17:51	0°♁	
retrograde	1516 Sep 20 j 15:09	22°♁40'53			1521 Oct 19 j 06:05	0°♁	
min. Earth dist.	1516 Oct 19 j 14:47	16°♁52'34	0.48400 AU	evening set	1521 Nov 25 j 06:50	27°♁40'10	
opposition	1516 Oct 27 j 16:28	13°♁56'48	0°-10'-56		1521 Nov 28 j 07:58	0°♁	
greatest brilliancy	1517 Jan 23 j 01:05	20°♁57'42	-3.1m		1522 Jan 05 j 21:41	0°♁	
asc. node	1516 Oct 31 j 01:55	12°♁43'55		max. Earth dist.	1522 Jan 23 j 21:47	14°♁12'03	2.37108 AU
direct	1516 Nov 30 j 05:51	6°♁50'50					
	1517 Feb 11 j 05:43	0°♁		conjunction	1522 Jan 27 j 14:14	17°♁06'49	-1°-4'-51
	1517 Apr 07 j 06:56	0°♁		minimum elong	1522 Jan 27 j 14:27	17°♁07'15	1°04'52
	1517 May 28 j 00:52	0°♁			1522 Feb 12 j 21:47	0°♁	
	1517 Jul 15 j 19:43	0°♁			1522 Mar 23 j 06:16	0°♁	
evening set	1517 Aug 24 j 22:48	25°♁34'34		morning rise	1522 Apr 08 j 05:08	12°♁14'41	
	1517 Aug 31 j 17:54	0°♁			1522 May 01 j 19:27	0°♁	
max. Earth dist.	1517 Sep 15 j 22:12	9°♁59'26	2.59651 AU		1522 Jun 12 j 07:07	0°♁	
				asc. node	1522 Jun 22 j 23:30	7°♁27'19	
conjunction	1517 Oct 10 j 14:58	26°♁35'04	0°22'32		1522 Jul 26 j 08:49	0°♁	
minimum elong	1517 Oct 10 j 15:47	26°♁36'27	0°22'31		1522 Sep 12 j 00:36	0°♁	
	1517 Oct 15 j 15:02	0°♁			1522 Nov 06 j 00:57	0°♁	
desc. node	1517 Nov 18 j 09:44	23°♁32'47		retrograde	1523 Jan 10 j 14:21	18°♁54'27	
morning rise	1517 Nov 27 j 21:04	0°♁18'08		opposition	1523 Feb 19 j 04:00	9°♁34'25	4°12'40
	1517 Nov 27 j 10:57	0°♁		greatest brilliancy	1523 Feb 19 j 14:24	9°♁24'08	-1.2m
	1518 Jan 07 j 11:42	0°♁		min. Earth dist.	1523 Feb 21 j 13:39	8°♁37'29	0.66922 AU
	1518 Feb 16 j 04:26	0°♁			1523 Mar 24 j 06:41	30°R♁	
	1518 Mar 27 j 05:04	0°♁		direct	1523 Apr 01 j 12:07	29°♁34'18	
	1518 May 05 j 10:39	0°♁			1523 Apr 09 j 23:54	0°♁	
	1518 Jun 15 j 02:37	0°♁			1523 Jun 28 j 02:48	0°♁	
asc. node	1518 Jul 29 j 07:40	0°♁		desc. node	1523 Jul 11 j 06:10	7°♁27'38	
	1518 Sep 18 j 01:16	27°♁56'10			1523 Aug 16 j 12:28	0°♁	
	1518 Sep 22 j 22:09	0°♁			1523 Sep 29 j 00:30	0°♁	
retrograde	1518 Nov 02 j 06:16	9°♁16'26			1523 Nov 08 j 08:10	0°♁	
min. Earth dist.	1518 Dec 06 j 15:03	1°♁28'17	0.60361 AU		1523 Dec 16 j 22:12	0°♁	
	1518 Dec 10 j 08:04	30°R♁		greatest brilliancy	1523 Dec 29 j 20:52	10°♁12'24	1.2m
opposition	1518 Dec 11 j 22:08	29°♁22'11	3°20'44		1524 Jan 23 j 22:29	0°♁	
greatest brilliancy	1518 Dec 10 j 23:58	29°♁44'11	-1.6m	evening set	1524 Feb 02 j 08:39	7°♁24'46	
direct	1519 Jan 18 j 11:30	20°♁39'20			1524 Mar 02 j 09:12	0°♁	
	1519 Mar 03 j 00:14	0°♁					
	1519 May 04 j 22:40	0°♁		conjunction	1524 Apr 08 j 18:47	28°♁16'45	0°-19'-49
	1519 Jun 25 j 23:54	0°♁		minimum elong	1524 Apr 08 j 20:19	28°♁19'37	0°19'49
	1519 Aug 13 j 00:23	0°♁			1524 Apr 11 j 02:34	0°♁	
evening set	1519 Sep 27 j 00:28	0°♁		asc. node	1524 May 09 j 22:21	20°♁56'32	
	1519 Oct 05 j 01:30	5°♁33'38			1524 May 22 j 17:18	0°♁	
desc. node	1519 Oct 06 j 08:10	6°♁26'56		max. Earth dist.	1524 May 23 j 23:31	0°♁53'01	2.48606 AU
max. Earth dist.	1519 Oct 19 j 20:25	15°♁56'22	2.48466 AU	morning rise	1524 Jun 08 j 16:27	11°♁48'01	
	1519 Nov 08 j 10:31	0°♁			1524 Jul 05 j 13:12	0°♁	
					1524 Aug 20 j 18:10	0°♁	
conjunction	1519 Nov 25 j 23:35	12°♁53'04	0°-30'-19		1524 Oct 08 j 19:10	0°♁	
minimum elong	1519 Nov 25 j 22:05	12°♁50'16	0°30'18		1524 Dec 02 j 08:42	0°♁	
	1519 Dec 18 j 18:48	0°♁		retrograde	1525 Feb 17 j 05:41	23°♁58'48	

opposition	1525 Mar 27 j 00:00	15°♌34'01	2°28'52		1530 Jun 24 j 19:19	0°♌	
greatest brilliancy	1525 Mar 27 j 19:13	15°♌15'43	-1.5m	evening set	1530 Jul 05 j 03:47	6°♌33'25	
min. Earth dist.	1525 Apr 02 j 03:17	13°♌14'04	0.60375 AU		1530 Aug 11 j 02:24	0°♍	
direct	1525 May 06 j 21:58	5°♌43'40		max. Earth dist.	1530 Aug 13 j 12:25	1°♍32'24	2.67285 AU
desc. node	1525 May 28 j 04:20	8°♌24'43					
	1525 Jul 18 j 14:25	0°♍		conjunction	1530 Aug 20 j 02:07	5°♍43'56	1°05'08
	1525 Sep 04 j 16:33	0°♎		minimum elong	1530 Aug 20 j 02:48	5°♍45'02	1°05'08
	1525 Oct 16 j 11:24	0°♏			1530 Sep 26 j 19:17	0°♎	
	1525 Nov 24 j 17:31	0°♐		morning rise	1530 Oct 03 j 10:48	4°♎19'14	
	1526 Jan 02 j 05:24	0°♑			1530 Nov 11 j 11:02	0°♏	
	1526 Feb 10 j 03:57	0°♒			1530 Dec 25 j 22:03	0°♐	
	1526 Mar 22 j 10:09	0°♓		desc. node	1531 Jan 18 j 02:21	15°♐57'02	
asc. node	1526 Mar 27 j 22:08	3°♓59'53			1531 Feb 07 j 06:53	0°♑	
evening set	1526 Apr 07 j 17:41	11°♓47'19			1531 Mar 21 j 20:59	0°♒	
	1526 May 03 j 13:04	0°♈			1531 May 03 j 12:33	0°♓	
					1531 Jun 17 j 18:46	0°♈	
conjunction	1526 Jun 02 j 18:12	20°♈40'51	0°38'30	retrograde	1531 Aug 31 j 20:59	29°♈00'33	
minimum elong	1526 Jun 02 j 16:37	20°♈38'10	0°38'28	min. Earth dist.	1531 Sep 27 j 22:27	24°♈02'34	0.43233 AU
	1526 Jun 16 j 16:12	0°♉		opposition	1531 Oct 05 j 20:10	21°♈25'48	-2°-31'-4
max. Earth dist.	1526 Jun 26 j 20:33	6°♉44'30	2.60005 AU	greatest brilliancy	1531 Oct 04 j 20:43	21°♈45'19	-2.5m
morning rise	1526 Jul 23 j 10:08	24°♉04'22		direct	1531 Nov 06 j 13:38	15°♈14'16	
	1526 Aug 01 j 15:08	0°♊		asc. node	1531 Nov 17 j 18:39	16°♈02'53	
	1526 Sep 18 j 02:06	0°♋			1531 Dec 30 j 19:56	0°♉	
	1526 Nov 06 j 01:56	0°♌			1532 Feb 25 j 14:46	0°♊	
	1526 Dec 27 j 23:47	0°♍			1532 Apr 16 j 09:10	0°♋	
	1527 Mar 02 j 00:49	0°♎			1532 Jun 04 j 15:15	0°♌	
retrograde	1527 Apr 08 j 09:28	7°♎09'23			1532 Jul 22 j 19:26	0°♍	
desc. node	1527 Apr 15 j 04:09	6°♎52'20		evening set	1532 Aug 10 j 07:47	11°♍45'24	
opposition	1527 May 12 j 17:24	0°♎20'19	-1°-25'-4	max. Earth dist.	1532 Sep 05 j 11:00	28°♍37'23	2.62801 AU
greatest brilliancy	1527 May 13 j 09:45	0°♎06'24	-2.2m		1532 Sep 07 j 13:37	0°♎	
	1527 May 13 j 17:16	30°♏♍					
min. Earth dist.	1527 May 21 j 06:08	27°♏26'48	0.48318 AU	conjunction	1532 Sep 25 j 04:16	11°♏35'34	0°38'49
direct	1527 Jun 19 j 10:58	21°♏58'15		minimum elong	1532 Sep 25 j 05:23	11°♏37'26	0°38'49
	1527 Jul 25 j 19:01	0°♐			1532 Oct 22 j 13:34	0°♏	
	1527 Sep 17 j 21:02	0°♑		morning rise	1532 Nov 10 j 11:06	12°♏59'12	
	1527 Oct 30 j 14:21	0°♒			1532 Dec 04 j 16:56	0°♐	
	1527 Dec 09 j 23:33	0°♓		desc. node	1532 Dec 05 j 01:12	0°♐14'40	
	1528 Jan 19 j 08:31	0°♈			1533 Jan 15 j 04:11	0°♑	
asc. node	1528 Feb 12 j 20:07	17°♈49'59			1533 Feb 24 j 08:37	0°♒	
	1528 Feb 29 j 20:21	0°♉			1533 Apr 04 j 21:13	0°♓	
	1528 Apr 13 j 00:30	0°♊			1533 May 14 j 16:35	0°♈	
evening set	1528 May 25 j 22:57	28°♊42'09			1533 Jun 25 j 08:02	0°♉	
	1528 May 27 j 22:21	0°♋			1533 Aug 11 j 12:30	0°♊	
				asc. node	1533 Oct 04 j 18:07	21°♊55'21	
conjunction	1528 Jul 13 j 22:43	0°♋27'48	1°06'18	retrograde	1533 Oct 17 j 22:23	23°♊06'30	
minimum elong	1528 Jul 13 j 22:01	0°♋26'41	1°06'18	min. Earth dist.	1533 Nov 19 j 06:54	16°♊01'34	0.56170 AU
	1528 Jul 13 j 05:22	0°♌		opposition	1533 Nov 25 j 22:21	13°♊26'24	2°20'30
max. Earth dist.	1528 Jul 21 j 02:53	5°♌03'28	2.66374 AU	greatest brilliancy	1533 Nov 25 j 01:37	13°♊46'36	-1.8m
morning rise	1528 Aug 28 j 16:46	29°♌37'40		direct	1534 Jan 01 j 01:56	5°♊14'56	
	1528 Aug 29 j 06:50	0°♍			1534 Mar 19 j 21:37	0°♋	
	1528 Oct 15 j 13:29	0°♎			1534 May 14 j 06:43	0°♌	
	1528 Dec 01 j 20:38	0°♏			1534 Jul 03 j 15:36	0°♍	
	1529 Jan 18 j 12:27	0°♐			1534 Aug 20 j 03:03	0°♎	
desc. node	1529 Mar 02 j 03:38	26°♐03'17		evening set	1534 Sep 18 j 05:47	19°♐15'27	
	1529 Mar 08 j 19:53	0°♑			1534 Oct 04 j 00:56	0°♏	
	1529 May 04 j 21:30	0°♒		max. Earth dist.	1534 Oct 04 j 21:11	0°♏34'48	2.53303 AU
retrograde	1529 Jun 20 j 09:11	11°♒24'26		desc. node	1534 Oct 22 j 23:50	13°♏10'23	
opposition	1529 Jul 20 j 10:43	6°♒27'04	-6°-44'-41				
greatest brilliancy	1529 Jul 21 j 03:11	6°♒16'08	-2.8m	conjunction	1534 Nov 06 j 10:55	23°♒25'57	0°-8'-47
min. Earth dist.	1529 Jul 22 j 15:14	5°♒52'14	0.37695 AU	minimum elong	1534 Nov 06 j 10:30	23°♒25'13	0°08'48
direct	1529 Aug 19 j 20:33	1°♒16'49		behind sun begin	1534 Nov 05 j 16:09	22°♒52'23	
	1529 Nov 04 j 15:13	0°♓		behind sun end	1534 Nov 07 j 04:52	23°♒58'04	
	1529 Dec 22 j 02:23	0°♈			1534 Nov 15 j 13:59	0°♓	
asc. node	1529 Dec 30 j 18:26	5°♈42'20			1534 Dec 26 j 03:44	0°♈	
	1530 Feb 05 j 10:26	0°♉		morning rise	1534 Dec 29 j 22:14	2°♈50'57	
	1530 Mar 23 j 01:46	0°♊			1535 Feb 03 j 08:04	0°♉	
	1530 May 08 j 14:13	0°♋			1535 Mar 13 j 20:40	0°♊	

	1535 Apr 21 j 14:12	0°♃		direct	1540 Apr 22 j 07:51	21°♎08'46	
	1535 May 31 j 12:23	0°♄			1540 Jun 02 j 12:41	0°♌	
	1535 Jul 12 j 21:43	0°♅		desc. node	1540 Jun 13 j 21:09	4°♌43'26	
asc. node	1535 Aug 22 j 16:14	26°♅10'29			1540 Jul 30 j 19:52	0°♍	
	1535 Aug 29 j 03:28	0°♆			1540 Sep 14 j 04:47	0°♎	
retrograde	1535 Nov 04 j 23:36	0°♇			1540 Oct 25 j 03:52	0°♏	
	1535 Nov 24 j 10:54	2°♇18'56			1540 Dec 03 j 00:43	0°♐	
min. Earth dist.	1535 Dec 12 j 20:24	30°♁♂			1541 Jan 10 j 05:51	0°♑	
opposition	1535 Dec 31 j 14:51	23°♁34'02	0.65104 AU		1541 Feb 17 j 21:54	0°♒	
greatest brilliancy	1536 Jan 03 j 14:51	22°♁21'53	4°15'36	evening set	1541 Mar 15 j 09:09	19°♑15'25	
direct	1536 Jan 02 j 23:17	22°♁37'29	-1.3m		1541 Mar 29 j 21:23	0°♓	
	1536 Feb 11 j 21:59	13°♁03'06		asc. node	1541 Apr 13 j 13:00	10°♓40'05	
	1536 Apr 14 j 06:37	0°♈			1541 May 10 j 17:54	0°♈	
	1536 Jun 11 j 01:30	0°♉					
desc. node	1536 Jul 30 j 15:37	0°♊		conjunction	1541 May 14 j 11:14	2°♈35'50	0°19'04
	1536 Sep 08 j 22:37	26°♊28'01		minimum elong	1541 May 14 j 10:08	2°♈33'56	0°19'04
	1536 Sep 14 j 02:59	0°♋		max. Earth dist.	1541 Jun 15 j 10:29	24°♈28'16	2.56099 AU
	1536 Oct 26 j 13:20	0°♌			1541 Jun 23 j 16:35	0°♉	
evening set	1536 Nov 03 j 00:11	5°♌27'22		morning rise	1541 Jul 07 j 09:11	9°♉04'17	
max. Earth dist.	1536 Nov 22 j 23:57	20°♌21'04	2.40592 AU		1541 Aug 08 j 15:27	0°♊	
	1536 Dec 05 j 17:10	0°♋			1541 Sep 25 j 11:52	0°♌	
					1541 Nov 14 j 19:42	0°♍	
conjunction	1536 Dec 31 j 07:11	19°♋45'07	0°-58'-41		1542 Jan 10 j 10:21	0°♎	
minimum elong	1536 Dec 31 j 05:11	19°♋41'12	0°58'42	retrograde	1542 Mar 17 j 16:30	18°♎55'31	
	1537 Jan 13 j 09:40	0°♌		opposition	1542 Apr 22 j 15:23	11°♎22'13	0°25'52
	1537 Feb 20 j 11:49	0°♍		greatest brilliancy	1542 Apr 22 j 20:40	11°♎17'27	-1.9m
morning rise	1537 Mar 09 j 02:22	13°♍02'48		min. Earth dist.	1542 Apr 30 j 15:10	8°♎29'35	0.53534 AU
	1537 Mar 30 j 21:05	0°♎		desc. node	1542 May 01 j 19:26	8°♎04'56	
	1537 May 09 j 10:10	0°♏		direct	1542 Jun 01 j 02:43	2°♎10'45	
	1537 Jun 19 j 22:52	0°♐			1542 Aug 16 j 05:06	0°♏	
asc. node	1537 Jul 09 j 15:35	13°♐35'43			1542 Sep 30 j 11:08	0°♐	
	1537 Aug 03 j 08:20	0°♑			1542 Nov 10 j 01:37	0°♑	
	1537 Sep 21 j 07:59	0°♒			1542 Dec 19 j 08:50	0°♒	
retrograde	1537 Nov 23 j 19:44	0°♓			1543 Jan 27 j 23:06	0°♓	
	1537 Dec 27 j 22:24	6°♓11'18		asc. node	1543 Mar 01 j 12:34	24°♓00'29	
	1538 Jan 28 j 03:16	30°♁♂			1543 Mar 09 j 19:33	0°♈	
opposition	1538 Feb 05 j 21:22	26°♁36'17	4°28'55		1543 Apr 21 j 10:57	0°♉	
greatest brilliancy	1538 Feb 06 j 00:36	26°♁33'05	-1.2m	evening set	1543 May 09 j 07:44	12°♈11'11	
min. Earth dist.	1538 Feb 06 j 18:37	26°♁15'09	0.67714 AU		1543 Jun 04 j 23:23	0°♉	
direct	1538 Mar 18 j 22:30	16°♁42'27					
	1538 May 11 j 11:32	0°♊		conjunction	1543 Jun 29 j 12:25	16°♉04'55	0°59'15
	1538 Jul 08 j 09:09	0°♋		minimum elong	1543 Jun 29 j 11:11	16°♉02'55	0°59'14
desc. node	1538 Jul 27 j 22:07	11°♋52'47		max. Earth dist.	1543 Jul 12 j 18:58	24°♉40'38	2.64517 AU
	1538 Aug 24 j 21:39	0°♌			1543 Jul 21 j 01:27	0°♊	
	1538 Oct 06 j 20:50	0°♍		morning rise	1543 Aug 15 j 16:47	16°♊23'03	
	1538 Nov 16 j 00:45	0°♎			1543 Sep 06 j 04:17	0°♋	
	1538 Dec 24 j 13:37	0°♏			1543 Oct 23 j 22:13	0°♌	
evening set	1539 Jan 05 j 01:13	9°♏03'44			1543 Dec 11 j 09:45	0°♍	
	1539 Jan 31 j 12:52	0°♐			1544 Jan 30 j 19:38	0°♎	
	1539 Mar 10 j 21:47	0°♑		desc. node	1544 Mar 18 j 18:41	25°♎27'00	
					1544 Mar 28 j 20:39	0°♏	
conjunction	1539 Mar 14 j 00:35	2°♑24'09	0°-44'-47	retrograde	1544 May 19 j 09:04	13°♏00'10	
minimum elong	1539 Mar 14 j 03:44	2°♑30'13	0°44'45	opposition	1544 Jun 19 j 18:09	7°♏30'31	-5°-2'-49
	1539 Apr 19 j 12:23	0°♒		greatest brilliancy	1544 Jun 21 j 06:07	7°♏04'01	-2.6m
max. Earth dist.	1539 May 04 j 07:02	10°♒51'35	2.43223 AU	min. Earth dist.	1544 Jun 26 j 04:12	5°♏37'43	0.40679 AU
morning rise	1539 May 19 j 03:46	21°♒35'14		direct	1544 Jul 23 j 03:51	1°♏08'01	
asc. node	1539 May 27 j 14:39	27°♒35'57			1544 Oct 06 j 11:29	0°♐	
	1539 May 31 j 00:19	0°♓			1544 Nov 20 j 20:15	0°♑	
	1539 Jul 13 j 19:57	0°♔			1545 Jan 02 j 17:56	0°♒	
	1539 Aug 29 j 08:36	0°♕		asc. node	1545 Jan 16 j 11:46	9°♑36'58	
	1539 Oct 18 j 17:20	0°♖			1545 Feb 14 j 21:48	0°♓	
retrograde	1539 Dec 18 j 23:11	0°♗			1545 Mar 31 j 06:08	0°♈	
	1540 Feb 02 j 08:18	9°♗58'50			1545 May 15 j 23:20	0°♉	
opposition	1540 Mar 11 j 23:46	1°♗08'45	3°20'53	evening set	1545 Jun 20 j 03:33	22°♗36'44	
greatest brilliancy	1540 Mar 12 j 18:05	0°♗50'58	-1.4m		1545 Jul 01 j 17:25	0°♊	
	1540 Mar 14 j 22:35	30°♁♂					
min. Earth dist.	1540 Mar 16 j 17:01	29°♁19'01	0.63719 AU	conjunction	1545 Aug 05 j 21:46	22°♁23'24	1°08'44

minimum elong	1545 Aug 05 j 21:59	22°♁23'45	1°08'44		1550 Apr 29 j 22:23	0°♃	
max. Earth dist.	1545 Aug 04 j 13:50	21°♁32'36	2.67577 AU		1550 Jun 09 j 05:40	0°♄	
	1545 Aug 17 j 20:37	0°♅			1550 Jul 22 j 12:15	0°♆	
morning rise	1545 Sep 19 j 11:00	20°♁50'05		asc. node	1550 Sep 08 j 09:17	28°♁32'21	
	1545 Oct 03 j 17:00	0°♁			1550 Sep 11 j 05:36	0°♂	
	1545 Nov 18 j 20:24	0°♂		retrograde	1550 Nov 10 j 12:35	18°♂14'33	
	1546 Jan 03 j 04:54	0°♃		min. Earth dist.	1550 Dec 15 j 22:42	10°♂04'59	0.62313 AU
desc. node	1546 Feb 03 j 18:20	21°♃07'15		opposition	1550 Dec 20 j 10:35	8°♂17'25	3°45'57
	1546 Feb 16 j 23:32	0°♄		greatest brilliancy	1550 Dec 19 j 13:51	8°♂38'05	-1.5m
	1546 Apr 02 j 17:53	0°♅			1551 Jan 17 j 13:04	30°♁♁	
	1546 May 19 j 12:07	0°♆		direct	1551 Jan 27 j 16:43	29°♁20'14	
	1546 Jul 26 j 07:41	0°♃			1551 Feb 07 j 06:08	0°♂	
retrograde	1546 Aug 07 j 03:54	0°♃57'49			1551 Apr 28 j 01:21	0°♁	
	1546 Aug 18 j 23:41	30°♁♁			1551 Jun 20 j 15:14	0°♁	
min. Earth dist.	1546 Sep 02 j 18:53	26°♁30'51	0.39096 AU		1551 Aug 08 j 03:51	0°♁	
greatest brilliancy	1546 Sep 07 j 08:40	25°♁10'59	-2.8m		1551 Sep 22 j 08:08	0°♂	
opposition	1546 Sep 08 j 13:13	24°♁50'08	-5°-7'-38	desc. node	1551 Sep 26 j 15:12	2°♂57'22	
direct	1546 Oct 08 j 11:36	19°♁32'51		evening set	1551 Oct 15 j 06:56	16°♂00'29	
	1546 Nov 21 j 03:44	0°♃		max. Earth dist.	1551 Oct 29 j 23:37	26°♂31'35	2.45631 AU
asc. node	1546 Dec 04 j 10:28	6°♃00'51			1551 Nov 03 j 18:35	0°♃	
	1547 Jan 17 j 13:17	0°♄					
	1547 Mar 08 j 05:19	0°♆		conjunction	1551 Dec 08 j 04:32	25°♃32'50	0°-42'-4
	1547 Apr 25 j 17:11	0°♂		minimum elong	1551 Dec 08 j 02:29	25°♃28'58	0°42'03
	1547 Jun 12 j 22:55	0°♁			1551 Dec 14 j 01:25	0°♄	
evening set	1547 Jul 27 j 22:02	28°♁14'42			1552 Jan 21 j 21:36	0°♅	
	1547 Jul 30 j 16:29	0°♆		morning rise	1552 Feb 08 j 04:15	13°♅32'38	
max. Earth dist.	1547 Aug 27 j 20:33	18°♆00'04	2.65178 AU	greatest brilliancy	1552 Feb 25 j 05:54	26°♅57'43	1.2m
					1552 Feb 29 j 02:41	0°♆	
conjunction	1547 Sep 11 j 10:56	27°♆27'04	0°51'49		1552 Apr 07 j 13:46	0°♃	
minimum elong	1547 Sep 11 j 12:04	27°♆28'55	0°51'49		1552 May 17 j 04:22	0°♄	
	1547 Sep 15 j 08:49	0°♁			1552 Jun 27 j 20:55	0°♆	
morning rise	1547 Oct 26 j 12:57	27°♁17'12		asc. node	1552 Jul 26 j 06:54	19°♁16'27	
	1547 Oct 30 j 13:28	0°♂			1552 Aug 11 j 20:53	0°♂	
	1547 Dec 13 j 02:56	0°♃			1552 Oct 02 j 07:56	0°♁	
desc. node	1547 Dec 22 j 16:43	6°♃44'33		retrograde	1552 Dec 14 j 13:38	23°♁28'26	
	1548 Jan 24 j 04:10	0°♄		opposition	1553 Jan 23 j 18:00	13°♁41'53	4°33'25
	1548 Mar 05 j 00:52	0°♅		min. Earth dist.	1553 Jan 23 j 02:39	13°♁57'13	0.67488 AU
	1548 Apr 14 j 07:21	0°♆		greatest brilliancy	1553 Jan 23 j 13:32	13°♁46'20	-1.2m
	1548 May 25 j 02:25	0°♃		direct	1553 Mar 05 j 06:45	3°♁58'40	
	1548 Jul 07 j 19:23	0°♄			1553 May 25 j 07:25	0°♆	
	1548 Sep 04 j 00:12	0°♆			1553 Jul 17 j 07:41	0°♁	
retrograde	1548 Oct 01 j 02:06	4°♁47'35		desc. node	1553 Aug 13 j 14:10	17°♁15'04	
asc. node	1548 Oct 21 j 09:49	1°♁47'28			1553 Sep 01 j 18:44	0°♂	
	1548 Oct 27 j 02:43	30°♁♁			1553 Oct 14 j 11:02	0°♃	
min. Earth dist.	1548 Oct 31 j 06:45	28°♁31'20	0.51267 AU		1553 Nov 23 j 13:58	0°♄	
opposition	1548 Nov 08 j 00:14	25°♁37'28	0°53'36	evening set	1553 Dec 09 j 02:39	11°♄58'41	
greatest brilliancy	1548 Nov 07 j 13:53	25°♁47'10	-2.1m		1554 Jan 01 j 03:29	0°♅	
direct	1548 Dec 12 j 12:33	18°♁05'43			1554 Feb 08 j 02:53	0°♆	
	1549 Jan 30 j 13:58	0°♆					
	1549 Mar 31 j 16:53	0°♂		conjunction	1554 Feb 12 j 21:34	3°♁46'12	-1°-1'-41
	1549 May 22 j 16:56	0°♁		minimum elong	1554 Feb 12 j 23:32	3°♁50'04	1°01'41
	1549 Jul 10 j 23:32	0°♆			1554 Mar 18 j 10:44	0°♃	
	1549 Aug 27 j 02:16	0°♁		max. Earth dist.	1554 Mar 26 j 21:09	6°♃29'53	2.38200 AU
evening set	1549 Sep 02 j 13:30	4°♁13'54		morning rise	1554 Apr 24 j 01:07	27°♃49'18	
max. Earth dist.	1549 Sep 22 j 08:30	17°♁21'51	2.57559 AU		1554 Apr 26 j 23:21	0°♄	
	1549 Oct 10 j 23:50	0°♂			1554 Jun 07 j 09:32	0°♆	
				asc. node	1554 Jun 13 j 06:19	4°♁06'59	
conjunction	1549 Oct 19 j 23:01	6°♂10'29	0°11'44		1554 Jul 21 j 07:06	0°♂	
minimum elong	1549 Oct 19 j 23:29	6°♂11'18	0°11'43		1554 Sep 06 j 09:03	0°♁	
behind sun begin	1549 Oct 19 j 09:13	5°♂46'38			1554 Oct 29 j 00:22	0°♆	
behind sun end	1549 Oct 20 j 13:45	6°♂36'00		retrograde	1555 Jan 18 j 15:50	26°♆45'44	
desc. node	1549 Nov 08 j 15:41	19°♂57'39		opposition	1555 Feb 26 j 23:05	17°♆35'17	3°57'21
	1549 Nov 22 j 17:23	0°♃		greatest brilliancy	1555 Feb 27 j 12:54	17°♆21'43	-1.3m
morning rise	1549 Dec 08 j 18:05	11°♃37'14		min. Earth dist.	1555 Mar 02 j 04:54	16°♆18'55	0.66062 AU
	1550 Jan 02 j 14:11	0°♄		direct	1555 Apr 09 j 09:18	7°♆33'38	
	1550 Feb 11 j 02:19	0°♅			1555 Jun 20 j 08:03	0°♁	
	1550 Mar 21 j 22:06	0°♆		desc. node	1555 Jul 01 j 12:22	5°♁55'51	

	1555 Aug 10 j 17:39	0°♁		conjunction	1560 Jul 22 j 10:43	8°♁51'17	1°08'24
	1555 Sep 23 j 18:57	0°♂		minimum elong	1560 Jul 22 j 10:22	8°♁50'43	1°08'23
	1555 Nov 03 j 07:37	0°♄		max. Earth dist.	1560 Jul 26 j 10:37	11°♁24'14	2.67034 AU
	1555 Dec 11 j 23:56	0°≈			1560 Aug 24 j 15:38	0°♁	
	1556 Jan 19 j 01:33	0°♃		morning rise	1560 Sep 05 j 15:26	7°♁37'44	
evening set	1556 Feb 18 j 01:32	23°♃26'30			1560 Oct 10 j 17:47	0°♁	
	1556 Feb 26 j 13:32	0°♂			1560 Nov 26 j 13:04	0°♁	
	1556 Apr 06 j 08:11	0°♄			1561 Jan 12 j 04:29	0°♂	
				desc. node	1561 Feb 20 j 09:31	25°♂01'30	
conjunction	1556 Apr 22 j 12:00	11°♃49'06	0°-4'-59		1561 Feb 28 j 07:05	0°♄	
minimum elong	1556 Apr 22 j 12:21	11°♃49'44	0°05'00		1561 Apr 18 j 22:02	0°≈	
behind sun begin	1556 Apr 21 j 11:40	11°♃05'02		retrograde	1561 Jul 08 j 13:44	29°≈31'42	
behind sun end	1556 Apr 23 j 13:02	12°♃34'22		opposition	1561 Aug 07 j 21:54	24°≈26'56	-6°-48'-12
asc. node	1556 Apr 30 j 06:33	17°♃25'18		min. Earth dist.	1561 Aug 07 j 00:05	24°≈41'28	0.37325 AU
	1556 May 17 j 23:40	0°♁		greatest brilliancy	1561 Aug 07 j 18:40	24°≈29'05	-2.9m
max. Earth dist.	1556 Jun 01 j 23:46	10°♁26'44	2.51421 AU	direct	1561 Sep 06 j 14:33	19°≈31'41	
morning rise	1556 Jun 19 j 16:12	22°♁31'33			1561 Oct 19 j 06:37	0°♃	
	1556 Jun 30 j 19:10	0°♄			1561 Dec 13 j 08:31	0°♂	
	1556 Aug 15 j 20:00	0°♁		asc. node	1561 Dec 21 j 02:51	4°♂47'26	
	1556 Oct 03 j 07:15	0°♁			1562 Jan 29 j 20:10	0°♄	
	1556 Nov 24 j 18:56	0°♁			1562 Mar 17 j 11:43	0°♁	
	1557 Feb 03 j 23:31	0°♁			1562 May 03 j 13:29	0°♄	
retrograde	1557 Feb 26 j 22:28	2°♁53'36			1562 Jun 20 j 01:46	0°♁	
	1557 Mar 20 j 08:55	30°♁		evening set	1562 Jul 13 j 12:04	14°♁47'13	
opposition	1557 Apr 05 j 03:33	24°♁45'03	1°50'07		1562 Aug 06 j 12:03	0°♁	
greatest brilliancy	1557 Apr 05 j 20:25	24°♁29'15	-1.7m	max. Earth dist.	1562 Aug 18 j 18:30	7°♁49'15	2.66769 AU
min. Earth dist.	1557 Apr 12 j 00:53	22°♁10'27	0.58161 AU				
direct	1557 May 15 j 16:59	15°♁04'25		conjunction	1562 Aug 28 j 03:58	13°♁50'14	1°01'18
desc. node	1557 May 18 j 11:07	15°♁07'22		minimum elong	1562 Aug 28 j 04:53	13°♁51'41	1°01'18
	1557 Jul 08 j 12:48	0°♁			1562 Sep 22 j 04:39	0°♁	
	1557 Aug 29 j 01:09	0°♂		morning rise	1562 Oct 11 j 15:24	12°♁43'14	
	1557 Oct 10 j 16:12	0°♄			1562 Nov 06 j 16:08	0°♁	
	1557 Nov 19 j 07:01	0°≈			1562 Dec 20 j 18:42	0°♂	
	1557 Dec 28 j 00:00	0°♃		desc. node	1563 Jan 08 j 09:06	12°♂55'45	
	1558 Feb 05 j 02:39	0°♂			1563 Feb 01 j 14:21	0°♄	
	1558 Mar 17 j 12:37	0°♄			1563 Mar 15 j 10:14	0°≈	
asc. node	1558 Mar 18 j 04:58	0°♃29'41			1563 Apr 25 j 22:05	0°♃	
evening set	1558 Apr 19 j 19:10	23°♃44'26			1563 Jun 07 j 17:30	0°♂	
	1558 Apr 28 j 18:40	0°♁			1563 Jul 27 j 17:32	0°♄	
				retrograde	1563 Sep 13 j 00:55	13°♃23'58	
conjunction	1558 Jun 12 j 21:20	0°♄35'21	0°47'30	min. Earth dist.	1563 Oct 11 j 03:05	7°♃58'43	0.46051 AU
minimum elong	1558 Jun 12 j 19:46	0°♄32'44	0°47'29	opposition	1563 Oct 19 j 06:57	5°♃07'03	-1°-6'-46
	1558 Jun 12 j 00:03	0°♄		greatest brilliancy	1563 Oct 18 j 18:52	5°♃17'40	-2.3m
max. Earth dist.	1558 Jul 02 j 22:41	13°♄47'51	2.61836 AU		1563 Nov 05 j 17:37	30°♁	
	1558 Jul 27 j 22:53	0°♁		asc. node	1563 Nov 08 j 01:24	29°♂33'19	
morning rise	1558 Aug 01 j 02:50	2°♁40'22		direct	1563 Nov 21 j 00:27	28°♂24'21	
	1558 Sep 13 j 05:32	0°♁			1563 Dec 07 j 01:33	0°♄	
	1558 Oct 31 j 15:56	0°♁			1564 Feb 17 j 15:25	0°♁	
	1558 Dec 20 j 23:15	0°♁			1564 Apr 10 j 12:18	0°♄	
	1559 Feb 15 j 00:32	0°♂			1564 May 30 j 13:21	0°♁	
desc. node	1559 Apr 05 j 10:11	17°♂37'02			1564 Jul 18 j 01:51	0°♁	
retrograde	1559 Apr 22 j 08:22	19°♂15'17		evening set	1564 Aug 18 j 15:22	20°♁04'04	
opposition	1559 May 25 j 14:09	12°♂53'59	-2°-40'-32		1564 Sep 02 j 23:07	0°♁	
greatest brilliancy	1559 May 26 j 18:18	12°♂31'02	-2.3m	max. Earth dist.	1564 Sep 11 j 09:04	5°♁30'51	2.61164 AU
min. Earth dist.	1559 Jun 02 j 21:29	10°♂12'05	0.45431 AU				
direct	1559 Jul 01 j 00:47	5°♂08'52		conjunction	1564 Oct 03 j 20:48	20°♁28'10	0°29'46
	1559 Sep 07 j 20:19	0°♄		minimum elong	1564 Oct 03 j 21:47	20°♁29'49	0°29'46
	1559 Oct 23 j 05:25	0°≈			1564 Oct 17 j 22:30	0°♁	
	1559 Dec 03 j 15:34	0°♃		morning rise	1564 Nov 20 j 03:11	23°♁02'12	
	1560 Jan 13 j 15:09	0°♂		desc. node	1564 Nov 25 j 07:49	26°♁42'44	
asc. node	1560 Feb 03 j 03:22	14°♂47'46			1564 Nov 29 j 22:44	0°♂	
	1560 Feb 24 j 13:25	0°♁			1565 Jan 10 j 04:47	0°♄	
	1560 Apr 08 j 01:04	0°♁			1565 Feb 19 j 03:01	0°≈	
	1560 May 23 j 04:18	0°♄			1565 Mar 30 j 08:27	0°♃	
evening set	1560 Jun 04 j 09:38	7°♄58'00			1565 May 08 j 18:43	0°♂	
	1560 Jul 08 j 14:14	0°♁			1565 Jun 18 j 17:42	0°♄	
					1565 Aug 02 j 18:33	0°♁	

asc. node	1565 Sep 25 j 00:09	26°♄52'59		1570 Aug 19 j 12:51	0°♄	
	1565 Oct 05 j 02:23	0°♄		1570 Oct 01 j 20:37	0°♄	
retrograde	1565 Oct 26 j 20:48	3°♄02'15		1570 Nov 11 j 03:33	0°♄	
	1565 Nov 16 j 13:20	30°♄		1570 Dec 19 j 17:31	0°♄	
min. Earth dist.	1565 Nov 29 j 08:29	25°♄33'01	0.58596 AU	evening set	1571 Jan 20 j 22:37	25°♄26'38
greatest brilliancy	1565 Dec 04 j 08:25	23°♄34'58	-1.7m		1571 Jan 26 j 17:06	0°♄
opposition	1565 Dec 05 j 06:57	23°♄12'46	2°58'33		1571 Mar 06 j 02:15	0°♄
direct	1566 Jan 11 j 06:42	14°♄42'56				
	1566 Mar 10 j 05:17	0°♄		conjunction	1571 Mar 29 j 11:48	17°♄51'44 0°-31'00
	1566 May 08 j 05:19	0°♄		minimum elong	1571 Mar 29 j 14:13	17°♄56'18 0°30'59
	1566 Jun 28 j 12:52	0°♄			1571 Apr 14 j 17:19	0°♄
	1566 Aug 15 j 08:46	0°♄		max. Earth dist.	1571 May 17 j 02:37	23°♄32'33 2.46221 AU
evening set	1566 Sep 27 j 15:39	28°♄48'54		asc. node	1571 May 17 j 21:42	24°♄06'32
	1566 Sep 29 j 09:08	0°♄			1571 May 26 j 05:19	0°♄
max. Earth dist.	1566 Oct 12 j 23:12	9°♄24'26	2.50695 AU	morning rise	1571 May 31 j 18:03	3°♄53'00
desc. node	1566 Oct 13 j 06:20	9°♄36'54			1571 Jul 08 j 23:30	0°♄
	1566 Nov 10 j 21:45	0°♄			1571 Aug 24 j 05:42	0°♄
					1571 Oct 12 j 16:37	0°♄
conjunction	1566 Nov 17 j 05:25	4°♄35'46	0°-21'-8		1571 Dec 08 j 04:05	0°♄
minimum elong	1566 Nov 17 j 04:23	4°♄33'53	0°21'09	retrograde	1572 Feb 11 j 05:59	18°♄20'52
	1566 Dec 21 j 09:21	0°♄		opposition	1572 Mar 20 j 10:57	9°♄44'06 2°52'26
morning rise	1567 Jan 12 j 08:12	16°♄45'30		greatest brilliancy	1572 Mar 21 j 06:10	9°♄25'38 -1.5m
	1567 Jan 29 j 11:01	0°♄		min. Earth dist.	1572 Mar 25 j 23:39	7°♄36'55 0.61984 AU
	1567 Mar 08 j 20:47	0°♄			1572 Apr 25 j 04:02	30°♄
	1567 Apr 16 j 11:21	0°♄		direct	1572 Apr 30 j 14:59	29°♄48'26
	1567 May 26 j 05:29	0°♄			1572 May 06 j 04:21	0°♄
	1567 Jul 07 j 05:41	0°♄		desc. node	1572 Jun 04 j 02:21	6°♄20'19
asc. node	1567 Aug 13 j 00:00	24°♄14'34			1572 Jul 23 j 12:07	0°♄
	1567 Aug 22 j 07:30	0°♄			1572 Sep 08 j 07:45	0°♄
	1567 Oct 18 j 10:45	0°♄			1572 Oct 19 j 18:12	0°♄
retrograde	1567 Dec 02 j 05:17	10°♄29'17			1572 Nov 27 j 20:33	0°♄
min. Earth dist.	1568 Jan 09 j 06:50	1°♄26'54	0.66223 AU		1573 Jan 05 j 05:06	0°♄
opposition	1568 Jan 11 j 10:50	0°♄34'49	4°26'05		1573 Feb 12 j 23:52	0°♄
greatest brilliancy	1568 Jan 10 j 22:56	0°♄46'44	-1.3m		1573 Mar 25 j 01:55	0°♄
	1568 Jan 12 j 21:40	30°♄		evening set	1573 Mar 28 j 22:27	2°♄49'06
direct	1568 Feb 20 j 06:13	21°♄06'04		asc. node	1573 Apr 03 j 21:23	7°♄08'54
	1568 Apr 02 j 22:52	0°♄			1573 May 06 j 00:28	0°♄
	1568 Jun 04 j 21:16	0°♄				
	1568 Jul 25 j 11:32	0°♄		conjunction	1573 May 25 j 16:42	13°♄35'22 0°30'50
desc. node	1568 Aug 30 j 05:22	23°♄11'57		minimum elong	1573 May 25 j 15:14	13°♄32'50 0°30'50
	1568 Sep 09 j 06:52	0°♄			1573 Jun 19 j 00:16	0°♄
	1568 Oct 21 j 19:37	0°♄		max. Earth dist.	1573 Jun 22 j 06:26	2°♄10'07 2.58350 AU
evening set	1568 Nov 15 j 05:58	18°♄04'52		morning rise	1573 Jul 16 j 16:53	18°♄14'16
	1568 Nov 30 j 23:15	0°♄			1573 Aug 03 j 21:47	0°♄
max. Earth dist.	1568 Dec 17 j 02:03	12°♄24'30	2.38215 AU		1573 Sep 20 j 11:35	0°♄
	1569 Jan 08 j 14:44	0°♄			1573 Nov 08 j 22:42	0°♄
					1574 Jan 01 j 08:52	0°♄
conjunction	1569 Jan 15 j 07:47	5°♄16'44	-1°-3'-52	retrograde	1574 Mar 29 j 13:47	29°♄24'11
minimum elong	1569 Jan 15 j 06:48	5°♄14'47	1°03'54	desc. node	1574 Apr 22 j 02:01	25°♄58'56
	1569 Feb 15 j 15:39	0°♄		opposition	1574 May 03 j 15:58	22°♄14'27 0°-34'-21
	1569 Mar 25 j 23:52	0°♄		greatest brilliancy	1574 May 03 j 22:47	22°♄08'28 -2.0m
morning rise	1569 Mar 26 j 06:26	0°♄12'42		min. Earth dist.	1574 May 12 j 01:38	19°♄18'17 0.50678 AU
	1569 May 04 j 12:01	0°♄		direct	1574 Jun 11 j 06:53	13°♄27'26
	1569 Jun 14 j 22:27	0°♄			1574 Aug 05 j 08:55	0°♄
asc. node	1569 Jun 29 j 22:55	10°♄26'55			1574 Sep 23 j 03:37	0°♄
	1569 Jul 29 j 01:13	0°♄			1574 Nov 03 j 18:43	0°♄
	1569 Sep 15 j 01:51	0°♄			1574 Dec 13 j 14:44	0°♄
	1569 Nov 11 j 06:36	0°♄			1575 Jan 22 j 13:47	0°♄
retrograde	1570 Jan 04 j 17:07	13°♄56'58		asc. node	1575 Feb 19 j 19:30	20°♄42'39
opposition	1570 Feb 13 j 11:57	4°♄29'48	4°20'41		1575 Mar 04 j 17:23	0°♄
greatest brilliancy	1570 Feb 13 j 19:15	4°♄22'34	-1.2m		1575 Apr 16 j 14:20	0°♄
min. Earth dist.	1570 Feb 15 j 05:27	3°♄48'42	0.67406 AU	evening set	1575 May 19 j 13:48	22°♄14'54
	1570 Feb 25 j 06:55	30°♄			1575 May 31 j 06:49	0°♄
direct	1570 Mar 26 j 18:15	24°♄31'56				
	1570 Apr 28 j 00:04	0°♄		conjunction	1575 Jul 08 j 10:55	24°♄51'41 1°03'52
	1570 Jul 01 j 22:27	0°♄		minimum elong	1575 Jul 08 j 10:00	24°♄50'11 1°03'52
desc. node	1570 Jul 18 j 04:15	9°♄31'19			1575 Jul 16 j 10:37	0°♄

max. Earth dist.	1575 Jul 18 j 07:02	1°♈11'18	2.65648 AU	greatest brilliancy	1580 Nov 17 j 17:56	6°♁46'28	-1.9m
morning rise	1575 Aug 23 j 18:30	24°♈27'30			1580 Dec 09 j 09:29	30°♁	
	1575 Sep 01 j 12:07	0°♁		direct	1580 Dec 23 j 23:06	28°♁34'32	
	1575 Oct 18 j 23:12	0°♁			1581 Jan 08 j 09:26	0°♁	
	1575 Dec 05 j 17:26	0°♁			1581 Mar 24 j 09:44	0°♁	
	1576 Jan 23 j 09:30	0°♁			1581 May 17 j 03:42	0°♁	
desc. node	1576 Mar 09 j 01:50	26°♁37'37			1581 Jul 06 j 01:18	0°♁	
	1576 Mar 15 j 06:02	0°♁			1581 Aug 22 j 09:58	0°♁	
retrograde	1576 Jun 06 j 00:27	28°♁50'18		evening set	1581 Sep 11 j 09:43	13°♁08'41	
opposition	1576 Jul 06 j 12:08	23°♁43'51	-6°-11'-22	max. Earth dist.	1581 Sep 29 j 06:23	25°♁09'07	2.55298 AU
greatest brilliancy	1576 Jul 07 j 17:05	23°♁23'55	-2.8m		1581 Oct 06 j 08:53	0°♁	
min. Earth dist.	1576 Jul 10 j 21:56	22°♁31'17	0.38706 AU				
direct	1576 Aug 07 j 01:59	18°♁06'25		conjunction	1581 Oct 29 j 16:44	16°♁12'38	0°00'08
	1576 Sep 21 j 00:58	0°♁		minimum elong	1581 Oct 29 j 16:46	16°♁12'41	0°00'09
	1576 Nov 11 j 22:18	0°♁		behind sun begin	1581 Oct 28 j 20:07	15°♁36'20	
	1576 Dec 26 j 19:32	0°♁		behind sun end	1581 Oct 30 j 13:24	16°♁49'03	
asc. node	1577 Jan 06 j 17:39	7°♁25'52		desc. node	1581 Oct 29 j 22:08	16°♁22'06	
	1577 Feb 08 j 23:55	0°♁			1581 Nov 18 j 01:09	0°♁	
	1577 Mar 25 j 23:07	0°♁		morning rise	1581 Dec 20 j 08:25	23°♁41'20	
	1577 May 11 j 01:44	0°♁			1581 Dec 28 j 18:46	0°♁	
	1577 Jun 27 j 01:11	0°♁			1582 Feb 06 j 02:57	0°♁	
evening set	1577 Jun 28 j 19:51	1°♁07'46			1582 Mar 16 j 18:37	0°♁	
max. Earth dist.	1577 Aug 09 j 19:26	27°♁47'50	2.67530 AU		1582 Apr 24 j 14:15	0°♁	
	1577 Aug 13 j 06:27	0°♁			1582 Jun 03 j 14:49	0°♁	
					1582 Jul 16 j 05:45	0°♁	
conjunction	1577 Aug 14 j 01:18	0°♁30'02	1°07'06	asc. node	1582 Aug 29 j 15:43	27°♁50'59	
minimum elong	1577 Aug 14 j 01:48	0°♁30'50	1°07'05		1582 Sep 02 j 10:50	0°♁	
morning rise	1577 Sep 27 j 10:29	28°♁57'34		retrograde	1582 Nov 28 14:01	26°♁53'14	
	1577 Sep 29 j 01:06	0°♁		min. Earth dist.	1583 Jan 04 00:08	18°♁23'33	0.63979 AU
	1577 Nov 13 j 22:11	0°♁		opposition	1583 Jan 07 16:16	16°♁55'27	4°05'20
	1577 Dec 28 j 18:42	0°♁		greatest brilliancy	1583 Jan 06 22:06	17°♁13'37	-1.4m
desc. node	1578 Jan 25 j 00:30	18°♁32'08		direct	1583 Feb 15 13:10	7°♁45'33	
	1578 Feb 10 j 17:17	0°♁			1583 Apr 30 05:08	0°♁	
	1578 Mar 26 j 03:07	0°♁			1583 Jun 25 00:10	0°♁	
	1578 May 09 j 01:50	0°♁			1583 Aug 13 04:11	0°♁	
	1578 Jun 26 j 20:03	0°♁		desc. node	1583 Sep 26 20:53	29°♁31'08	
retrograde	1578 Aug 21 j 16:55	17°♁44'33			1583 Sep 27 13:46	0°♁	
min. Earth dist.	1578 Sep 17 j 06:45	13°♁04'16	0.41170 AU	evening set	1583 Nov 05 04:40	27°♁11'28	
greatest brilliancy	1578 Sep 23 j 08:02	11°♁10'45	-2.6m		1583 Nov 09 01:36	0°♁	
opposition	1578 Sep 24 j 12:36	10°♁48'14	-3°-39'-32	max. Earth dist.	1583 Nov 21 12:03	9°♁07'00	2.42807 AU
direct	1578 Oct 25 j 10:08	5°♁02'20			1583 Dec 19 07:43	0°♁	
asc. node	1578 Nov 24 j 17:57	10°♁25'44					
	1579 Jan 07 j 19:43	0°♁		conjunction	1583 Dec 31 09:15	9°♁14'21	0°-52'-26
	1579 Mar 01 j 15:13	0°♁		minimum elong	1583 Dec 31 07:01	9°♁10'03	0°52'26
	1579 Apr 20 j 06:28	0°♁			1584 Jan 27 02:28	0°♁	
	1579 Jun 08 j 00:56	0°♁		morning rise	1584 Mar 05 18:00	0°♁23'38	
	1579 Jul 26 j 00:38	0°♁			1584 Mar 05 05:59	0°♁	
evening set	1579 Aug 05 j 04:02	6°♁25'51			1584 Apr 12 15:25	0°♁	
max. Earth dist.	1579 Sep 02 j 09:24	24°♁32'48	2.63969 AU		1584 May 22 04:01	0°♁	
	1579 Sep 10 j 18:42	0°♁			1584 Jul 02 16:33	0°♁	
				asc. node	1584 Jul 26 14:57	16°♁25'59	
conjunction	1579 Sep 19 j 19:22	5°♁54'44	0°44'41		1584 Aug 16 05:10	0°♁	
minimum elong	1579 Sep 19 j 20:31	5°♁56'37	0°44'40		1584 Oct 04 21:48	0°♁	
	1579 Oct 25 j 21:28	0°♁			1584 Dec 17 16:34	0°♁	
morning rise	1579 Nov 04 j 11:13	6°♁31'11		retrograde	1585 Jan 01 05:05	1°♁15'48	
	1579 Dec 08 j 06:06	0°♁			1585 Jan 15 01:50	30°♁	
desc. node	1579 Dec 12 j 23:10	3°♁19'54		opposition	1585 Feb 10 07:33	21°♁35'12	4°32'10
	1580 Jan 18 j 23:54	0°♁		greatest brilliancy	1585 Feb 10 07:23	21°♁35'22	-1.2m
	1580 Feb 28 j 11:36	0°♁		min. Earth dist.	1585 Feb 10 12:32	21°♁30'14	0.67739 AU
	1580 Apr 08 j 07:23	0°♁		direct	1585 Mar 23 04:14	11°♁45'32	
	1580 May 18 j 10:54	0°♁			1585 May 27 00:06	0°♁	
	1580 Jun 29 j 17:26	0°♁			1585 Jul 21 13:22	0°♁	
	1580 Aug 18 j 07:40	0°♁		desc. node	1585 Aug 13 20:03	14°♁24'16	
retrograde	1580 Oct 10 j 21:41	15°♁58'12			1585 Sep 06 15:49	0°♁	
asc. node	1580 Oct 11 j 17:32	15°♁57'54			1585 Oct 19 13:24	0°♁	
min. Earth dist.	1580 Nov 11 j 07:02	9°♁14'57	0.54046 AU		1585 Nov 28 17:45	0°♁	
opposition	1580 Nov 18 j 11:49	6°♁29'18	1°47'33	evening set	1586 Jan 03 00:21	27°♁24'30	

	1586 Jan 06 07:26	0°♁				1590 Aug 02 06:53	0°♁	
	1586 Feb 13 06:47	0°♁			morning rise	1590 Aug 19 13:38	11°♁03'50	
conjunction	1586 Mar 11 11:14	20°♁34'05	0°-53'-34			1590 Sep 18 10:41	0°♁	
minimum elong	1586 Mar 11 14:19	20°♁40'04	0°53'34			1590 Nov 05 10:42	0°♁	
	1586 Mar 23 14:38	0°♁				1590 Dec 24 14:26	0°♁	
max. Earth dist.	1586 May 01 05:52	29°♁19'59	2.40838 AU		desc. node	1591 Feb 14 20:00	0°♁	
	1586 May 02 03:24	0°♁				1591 Apr 05 16:50	23°♁36'55	
morning rise	1586 May 18 16:54	12°♁11'12			retrograde	1591 Apr 26 09:48	0°♁	
	1586 Jun 12 13:12	0°♁				1591 May 17 13:57	2°♁33'14	
asc. node	1586 Jun 13 14:24	0°♁44'25			opposition	1591 Jun 06 23:00	30°♁♁	
	1586 Jul 26 07:49	0°♁			greatest brilliancy	1591 Jun 18 18:27	26°♁40'50	-4°-1'-25
	1586 Sep 10 23:38	0°♁			min. Earth dist.	1591 Jun 20 05:58	26°♁13'19	-2.5m
	1586 Nov 01 01:16	0°♁			direct	1591 Jun 26 06:52	24°♁21'56	0.42671 AU
	1587 Jan 07 02:26	0°♁				1591 Jul 23 14:07	19°♁39'53	
retrograde	1587 Feb 05 21:56	4°♁43'27				1591 Sep 02 18:43	0°♁	
	1587 Mar 05 07:11	30°♁♁				1591 Oct 24 13:43	0°♁	
opposition	1587 Mar 16 21:44	25°♁43'40	3°37'35			1591 Dec 06 17:18	0°♁	
greatest brilliancy	1587 Mar 17 14:17	25°♁27'31	-1.3m		asc. node	1592 Jan 17 14:24	0°♁	
min. Earth dist.	1587 Mar 20 23:30	24°♁08'25	0.64894 AU			1592 Feb 03 11:07	11°♁59'50	
direct	1587 Apr 27 08:20	15°♁42'06				1592 Feb 29 02:28	0°♁	
	1587 Jun 20 20:49	0°♁				1592 Apr 12 23:43	0°♁	
desc. node	1587 Jul 01 19:14	5°♁10'46			evening set	1592 May 28 09:17	0°♁	
	1587 Aug 14 13:42	0°♁				1592 Jun 23 12:42	16°♁54'38	
	1587 Sep 28 09:17	0°♁				1592 Jul 13 22:51	0°♁	
	1587 Nov 08 04:20	0°♁			conjunction	1592 Aug 09 18:59	17°♁06'40	1°09'04
	1587 Dec 16 23:25	0°♁			minimum elong	1592 Aug 09 18:59	17°♁06'39	1°09'03
	1588 Jan 24 02:44	0°♁			max. Earth dist.	1592 Aug 10 18:26	17°♁43'58	2.67440 AU
	1588 Mar 02 16:07	0°♁				1592 Aug 30 01:00	0°♁	
evening set	1588 Mar 14 07:03	8°♁52'32			morning rise	1592 Sep 23 13:43	15°♁38'26	
	1588 Apr 11 12:20	0°♁				1592 Oct 15 23:52	0°♁	
asc. node	1588 Apr 30 12:32	13°♁51'25				1592 Dec 01 10:12	0°♁	
	1588 May 15 08:16	24°♁26'47	0°09'21		desc. node	1593 Jan 16 07:27	0°♁	
minimum elong	1588 May 15 07:39	24°♁25'42	0°09'20			1593 Feb 20 16:22	23°♁14'57	
behind sun begin	1588 May 14 11:31	23°♁50'03				1593 Mar 02 23:08	0°♁	
behind sun end	1588 May 16 03:47	25°♁01'19				1593 Apr 18 07:31	0°♁	
	1588 May 23 05:19	0°♁			retrograde	1593 Jun 08 05:45	0°♁	
max. Earth dist.	1588 Jun 19 23:37	19°♁10'22	2.54105 AU		min. Earth dist.	1593 Aug 04 19:16	17°♁50'58	
	1588 Jul 06 01:09	0°♁			greatest brilliancy	1593 Sep 01 04:50	13°♁22'43	0.37925 AU
morning rise	1588 Jul 10 00:16	2°♁38'31			opposition	1593 Sep 04 05:32	12°♁32'29	-2.8m
	1588 Aug 20 23:26	0°♁			direct	1593 Sep 05 02:17	12°♁18'08	-6°-4'-49
	1588 Oct 08 00:28	0°♁				1593 Oct 04 14:33	7°♁17'29	
	1588 Nov 28 01:41	0°♁			asc. node	1593 Dec 12 03:14	0°♁	
	1589 Jan 27 03:01	0°♁				1593 Dec 21 09:56	5°♁03'58	
retrograde	1589 Mar 19 06:13	12°♁15'04				1594 Feb 01 12:32	0°♁	
opposition	1589 Apr 24 20:01	4°♁25'01	1°04'20			1594 Mar 21 14:55	0°♁	
greatest brilliancy	1589 Apr 25 07:39	4°♁14'19	-1.8m			1594 May 08 09:40	0°♁	
min. Earth dist.	1589 May 02 09:28	1°♁38'36	0.55701 AU		evening set	1594 Jun 25 06:53	0°♁	
	1589 May 07 02:44	30°♁♁				1594 Jul 31 19:13	22°♁58'37	
desc. node	1589 May 18 17:40	26°♁43'57			max. Earth dist.	1594 Aug 11 21:18	0°♁	
direct	1589 Jun 03 21:31	24°♁58'17				1594 Aug 11 21:18	0°♁	
	1589 Jul 02 21:56	0°♁			conjunction	1594 Sep 03 02:57	14°♁11'23	2.65990 AU
	1589 Aug 31 14:04	0°♁				1594 Sep 15 08:01	22°♁03'08	0°56'12
	1589 Oct 14 12:32	0°♁			minimum elong	1594 Sep 15 09:05	22°♁04'50	0°56'11
	1589 Nov 23 15:32	0°♁				1594 Sep 27 14:08	0°♁	
	1590 Jan 01 15:34	0°♁			morning rise	1594 Oct 30 01:51	21°♁23'27	
	1590 Feb 09 23:19	0°♁				1594 Nov 11 22:28	0°♁	
asc. node	1590 Mar 18 11:45	27°♁02'33			desc. node	1594 Dec 25 18:18	0°♁	
	1590 Mar 22 13:37	0°♁				1595 Jan 08 14:36	9°♁41'38	
	1590 May 03 23:21	0°♁				1595 Feb 06 03:52	0°♁	
evening set	1590 May 11 04:08	4°♁57'39				1595 Mar 19 10:21	0°♁	
	1590 Jun 17 07:18	0°♁				1595 Apr 29 04:07	0°♁	
	1590 Jul 02 13:28	10°♁03'34	0°54'53		retrograde	1595 Jun 09 14:50	0°♁	
minimum elong	1590 Jul 02 12:04	10°♁01'16	0°54'53		min. Earth dist.	1595 Jul 24 23:06	0°♁	
max. Earth dist.	1590 Jul 18 20:54	20°♁41'29	2.63426 AU		asc. node	1595 Oct 04 03:53	26°♁24'04	
						1595 Nov 02 09:25	20°♁31'09	0.48932 AU
						1595 Nov 08 08:55	18°♁20'19	

opposition	1595 Nov 10 10:45	17°♄34'36	0°06'39	evening set	1600 Dec 08 07:42	1°♄36'00
greatest brilliancy	1596 Sep 10 16:16	1°♄31'27	-5.5m			
direct	1595 Dec 14 04:10	10°♄23'47				
	1596 Feb 18 01:18	0°♄				
	1596 Apr 14 06:25	0°♄				
	1596 Jun 04 08:17	0°♄				
	1596 Jul 23 07:09	0°♄				
evening set	1596 Sep 06 02:48	28°♄33'06				
	1596 Sep 08 08:12	0°♄				
max. Earth dist.	1596 Sep 27 12:51	12°♄37'55	2.59254 AU			
conjunction	1596 Oct 22 21:54	29°♄43'34	0°19'39			
minimum elong	1596 Oct 22 22:37	29°♄44'48	0°19'39			
	1596 Oct 23 07:31	0°♄				
desc. node	1596 Nov 25 13:38	23°♄08'15				
	1596 Dec 05 04:58	0°♄				
morning rise	1596 Dec 10 10:58	3°♄46'00				
	1597 Jan 15 06:34	0°♄				
	1597 Feb 23 23:30	0°♄				
	1597 Apr 03 23:32	0°♄				
	1597 May 13 03:19	0°♄				
	1597 Jun 22 15:15	0°♄				
	1597 Aug 05 10:00	0°♄				
asc. node	1597 Sep 25 08:27	28°♄52'20				
	1597 Sep 27 19:35	0°♄				
retrograde	1597 Nov 14 09:06	12°♄21'01				
min. Earth dist.	1597 Dec 18 23:07	4°♄28'58	0.60762 AU			
greatest brilliancy	1597 Dec 23 04:36	2°♄48'21	-1.5m			
opposition	1597 Dec 24 02:46	2°♄26'20	3°28'42			
	1597 Dec 30 10:01	30°♄				
direct	1598 Jan 30 20:15	23°♄40'31				
	1598 Mar 06 17:00	0°♄				
	1598 May 11 17:45	0°♄				
	1598 Jul 03 07:14	0°♄				
	1598 Aug 20 13:31	0°♄				
	1598 Oct 04 17:20	0°♄				
desc. node	1598 Oct 13 13:17	6°♄05'24				
evening set	1598 Oct 17 11:18	8°♄48'53				
max. Earth dist.	1598 Oct 31 22:57	19°♄01'04	2.47925 AU			
	1598 Nov 16 05:56	0°♄				
conjunction	1598 Dec 08 18:08	16°♄32'52	0°-33'-21			
minimum elong	1598 Dec 08 16:29	16°♄29'47	0°33'22			
	1598 Dec 26 15:40	0°♄				
	1599 Feb 03 14:35	0°♄				
morning rise	1599 Feb 06 00:19	1°♄52'32				
	1599 Mar 13 21:43	0°♄				
	1599 Apr 21 09:43	0°♄				
greatest brilliancy	1599 May 10 01:17	14°♄16'09	1.2m			
	1599 May 31 00:37	0°♄				
	1599 Jul 11 18:31	0°♄				
asc. node	1599 Aug 13 06:25	21°♄50'48				
	1599 Aug 26 01:13	0°♄				
	1599 Oct 18 00:52	0°♄				
retrograde	1599 Dec 19 21:29	18°♄27'37				
min. Earth dist.	1600 Jan 27 19:52	9°♄08'40	0.67057 AU			
opposition	1600 Jan 29 03:20	8°♄37'11	4°31'54			
greatest brilliancy	1600 Jan 28 19:32	8°♄44'59	-1.3m			
	1600 Feb 25 19:40	30°♄				
direct	1600 Mar 09 09:11	28°♄59'52				
	1600 Mar 22 12:50	0°♄				
	1600 Jun 08 04:40	0°♄				
	1600 Jul 30 03:28	0°♄				
desc. node	1600 Aug 30 12:06	20°♄02'59				
	1600 Sep 14 09:05	0°♄				
	1600 Oct 27 01:18	0°♄				
	1600 Dec 06 05:32	0°♄				