

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 19:09	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 00:16	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 08:05	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 02 j 01:55	15°♄58'23	-2.2m
	1101 Dec 20 j 05:18	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 06:40	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°31'18		1107 Sep 04 j 16:59	0°♑	
greatest brilliancy	1102 Jun 14 j 07:11	27°♈02'00	-2.7m	max. Earth dist.	1107 Sep 17 j 08:23	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 12:54	26°♑54'09	0°18'33
	1102 Oct 16 j 09:10	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 20:02	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 13:54	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 13:30	12°♏36'43	2.67537 AU	retrograde	1108 Nov 04 j 02:55	8°♄56'15	
	1103 Aug 26 j 20:25	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 09:02	29°♐13'52	-1.6m
	1104 Jan 11 j 17:58	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°37'55	evening set	1109 Oct 08 j 18:01	6°♒38'29	
greatest brilliancy	1104 Aug 30 j 23:09	14°♈37'43	-2.8m	max. Earth dist.	1109 Oct 23 j 15:13	17°♒16'01	2.46018 AU
direct	1104 Sep 30 j 17:11	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°36'21
	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 20:43	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 12:30	19°♏04'29			1110 Mar 06 j 18:44	0°♈	
	1105 Aug 07 j 16:54	0°♐			1110 Apr 14 j 11:43	0°♑	
max. Earth dist.	1105 Aug 21 j 19:39	9°♐03'05	2.65293 AU		1110 May 24 j 14:03	0°♄	
					1110 Jul 06 j 01:32	0°♐	
conjunction	1105 Sep 05 j 02:54	18°♐18'04	0°56'14	asc. node	1110 Aug 01 j 00:33	17°♐12'40	
minimum elong	1105 Sep 05 j 03:59	18°♐19'50	0°56'14		1110 Aug 21 j 09:51	0°♄	
	1105 Sep 23 j 00:09	0°♑			1110 Oct 15 j 22:03	0°♏	
morning rise	1105 Oct 20 j 04:01	18°♑04'20		retrograde	1110 Dec 09 j 05:45	14°♏18'39	
	1105 Nov 06 j 18:30	0°♒		opposition	1111 Jan 18 j 09:24	4°♏31'23	4°31'36
	1105 Dec 19 j 22:19	0°♈		greatest brilliancy	1111 Jan 18 j 05:30	4°♏35'17	-1.3m
desc. node	1105 Dec 27 j 18:13	5°♈33'23		min. Earth dist.	1111 Jan 17 j 15:08	4°♏49'41	0.67384 AU
	1106 Jan 30 j 15:54	0°♄			1111 Jan 30 j 06:10	30°♒♄	
	1106 Mar 12 j 08:30	0°♑		direct	1111 Feb 27 j 20:04	24°♄49'06	
	1106 Apr 21 j 17:18	0°♈			1111 Mar 31 j 08:53	0°♏	

	1111 Jun 06 j 04:08	0°♎	conjunction	1116 Jun 06 j 03:29	21°♊07'53	0°42'11
	1111 Jul 26 j 16:15	0°♏	minimum elong	1116 Jun 06 j 01:56	21°♊05'19	0°42'09
desc. node	1111 Aug 19 j 14:48	15°♏32'58		1116 Jun 19 j 13:10	0°♏	
	1111 Sep 09 j 21:41	0°♎	max. Earth dist.	1116 Jun 26 j 18:14	4°♏43'48	2.61571 AU
	1111 Oct 21 j 18:38	0°♊	morning rise	1116 Jul 25 j 15:27	23°♏26'21	
	1111 Nov 30 j 09:12	0°♊		1116 Aug 04 j 21:35	0°♏	
evening set	1111 Dec 03 j 01:46	2°♊04'59		1116 Sep 21 j 12:07	0°♎	
	1112 Jan 07 j 16:48	0°♏		1116 Nov 09 j 09:08	0°♏	
				1116 Dec 30 j 19:08	0°♎	
conjunction	1112 Feb 06 j 09:38	23°♏28'03 -1°03'45		1117 Mar 02 j 06:03	0°♊	
minimum elong	1112 Feb 06 j 10:54	23°♏30'31 1°03'46	desc. node	1117 Apr 10 j 11:23	9°♊25'36	
	1112 Feb 14 j 16:42	0°♊	retrograde	1117 Apr 15 j 02:23	9°♊33'18	
max. Earth dist.	1112 Mar 15 j 14:54	23°♊20'23 2.37965 AU	opposition	1117 May 18 j 12:31	3°♊08'12 -2°03'46	
	1112 Mar 24 j 06:47	0°♎	greatest brilliancy	1117 May 19 j 03:27	2°♊55'59 -2.4m	
morning rise	1112 Apr 16 j 11:57	17°♎34'39	min. Earth dist.	1117 May 26 j 21:25	0°♊24'17 0.45814 AU	
	1112 May 03 j 06:33	0°♊		1117 May 28 j 04:18	30°♎	
	1112 Jun 14 j 08:03	0°♊	direct	1117 Jun 24 j 03:34	25°♎18'05	
asc. node	1112 Jun 17 j 23:20	2°♊30'51		1117 Jul 21 j 03:18	0°♊	
	1112 Jul 29 j 00:48	0°♏		1117 Sep 16 j 21:21	0°♊	
	1112 Sep 15 j 07:44	0°♏		1117 Oct 30 j 06:10	0°♏	
	1112 Nov 10 j 05:58	0°♎		1117 Dec 10 j 05:35	0°♊	
retrograde	1113 Jan 12 j 06:34	17°♎37'08		1118 Jan 20 j 07:10	0°♎	
opposition	1113 Feb 20 j 14:00	8°♎25'29 4°10'51	asc. node	1118 Feb 07 j 20:44	13°♎19'02	
greatest brilliancy	1113 Feb 21 j 00:33	8°♎15'06 -1.3m		1118 Mar 03 j 13:01	0°♊	
min. Earth dist.	1113 Feb 23 j 16:48	7°♎11'55 0.66179 AU		1118 Apr 16 j 10:26	0°♊	
	1113 Mar 18 j 05:46	30°♎	evening set	1118 May 29 j 17:06	28°♊33'46	
direct	1113 Apr 02 j 23:21	28°♏23'55		1118 May 31 j 22:08	0°♏	
	1113 Apr 19 j 15:11	0°♎				
	1113 Jul 01 j 00:49	0°♏	conjunction	1118 Jul 16 j 23:16	29°♏37'34 1°07'14	
desc. node	1113 Jul 06 j 14:16	3°♏10'13	minimum elong	1118 Jul 16 j 22:40	29°♏36'38 1°07'14	
	1113 Aug 18 j 12:28	0°♎		1118 Jul 17 j 13:19	0°♏	
	1113 Sep 30 j 08:27	0°♊	max. Earth dist.	1118 Jul 21 j 11:14	2°♏29'54 2.66917 AU	
	1113 Nov 09 j 05:28	0°♊	morning rise	1118 Aug 31 j 07:16	28°♏29'45	
	1113 Dec 17 j 14:52	0°♏		1118 Sep 02 j 16:01	0°♎	
	1114 Jan 24 j 16:48	0°♊		1118 Oct 19 j 17:06	0°♏	
evening set	1114 Feb 10 j 15:20	13°♊13'00		1118 Dec 05 j 12:10	0°♎	
	1114 Mar 04 j 11:00	0°♎		1119 Jan 21 j 07:36	0°♊	
	1114 Apr 13 j 16:23	0°♊	desc. node	1119 Feb 26 j 11:01	22°♊49'02	
				1119 Mar 10 j 01:51	0°♊	
conjunction	1114 Apr 16 j 06:24	1°♊52'49 -0°12'26		1119 May 01 j 10:14	0°♏	
minimum elong	1114 Apr 16 j 07:18	1°♊54'27 0°12'25	retrograde	1119 Jul 01 j 20:46	18°♏57'09	
behind sun begin	1114 Apr 15 j 14:54	1°♊24'40	opposition	1119 Aug 01 j 02:16	13°♏54'49 -6°53'18	
behind sun end	1114 Apr 16 j 23:42	2°♊24'13	greatest brilliancy	1119 Aug 01 j 01:30	13°♏55'19 -2.9m	
asc. node	1114 May 05 j 21:19	15°♊58'12	min. Earth dist.	1119 Jul 31 j 14:08	14°♏02'51 0.37340 AU	
	1114 May 25 j 21:34	0°♊	direct	1119 Aug 30 j 20:10	8°♏58'55	
max. Earth dist.	1114 May 27 j 11:13	1°♊05'09 2.51047 AU		1119 Nov 02 j 22:54	0°♊	
morning rise	1114 Jun 13 j 20:03	12°♊58'35		1119 Dec 23 j 06:40	0°♎	
	1114 Jul 09 j 07:35	0°♏	asc. node	1119 Dec 26 j 18:56	2°♎13'20	
	1114 Aug 24 j 23:58	0°♏		1120 Feb 07 j 23:59	0°♊	
	1114 Oct 13 j 08:42	0°♎		1120 Mar 25 j 13:44	0°♊	
	1114 Dec 07 j 03:55	0°♏		1120 May 11 j 17:00	0°♏	
retrograde	1115 Feb 21 j 08:25	23°♏38'18		1120 Jun 28 j 05:09	0°♏	
opposition	1115 Mar 30 j 14:32	15°♏27'36 2°18'05	evening set	1120 Jul 07 j 00:55	5°♏34'36	
greatest brilliancy	1115 Mar 31 j 05:09	15°♏13'52 -1.7m	max. Earth dist.	1120 Aug 12 j 17:38	28°♏53'09 2.66803 AU	
min. Earth dist.	1115 Apr 06 j 09:03	12°♏55'09 0.58476 AU		1120 Aug 14 j 11:29	0°♎	
direct	1115 May 10 j 04:41	5°♏45'34				
desc. node	1115 May 24 j 12:48	7°♏02'04	conjunction	1120 Aug 21 j 19:37	4°♎41'59 1°04'18	
	1115 Jul 21 j 01:17	0°♎	minimum elong	1120 Aug 21 j 20:23	4°♎43'13 1°04'18	
	1115 Sep 06 j 13:42	0°♊		1120 Sep 29 j 20:49	0°♏	
	1115 Oct 18 j 00:24	0°♊	morning rise	1120 Oct 05 j 07:41	3°♏34'39	
	1115 Nov 26 j 04:42	0°♏		1120 Nov 14 j 00:01	0°♎	
	1116 Jan 03 j 21:05	0°♊		1120 Dec 27 j 18:55	0°♊	
	1116 Feb 12 j 05:43	0°♎	desc. node	1121 Jan 13 j 09:50	11°♊36'55	
asc. node	1116 Mar 22 j 21:14	29°♎08'29		1121 Feb 08 j 09:14	0°♊	
	1116 Mar 24 j 01:54	0°♊		1121 Mar 22 j 03:36	0°♏	
evening set	1116 Apr 12 j 18:01	13°♊58'31		1121 May 02 j 22:55	0°♊	
	1116 May 05 j 20:13	0°♊		1121 Jun 16 j 01:57	0°♎	

	1121 Aug 14 j 23:21	0°♄			1126 Aug 03 j 13:37	0°♄	
retrograde	1121 Sep 06 j 02:31	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 04:02	0°♄	
opposition	1121 Oct 12 j 04:00	25°♄09'05	-1°46'06	evening set	1126 Nov 09 j 07:17	8°♄17'06	
greatest brilliancy	1121 Oct 11 j 16:11	25°♄19'23	-2.4m		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°02'08
	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 03:34	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 00:13	0°♄			1127 Nov 30 j 12:40	0°♄	
morning rise	1122 Nov 14 j 15:46	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 18:41	30°♄♂	
	1122 Dec 07 j 12:32	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 09:01	25°♄15'45	-1.3m
	1123 Feb 26 j 02:25	0°♄		min. Earth dist.	1128 Feb 09 j 18:20	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 02:20	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 10:51	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 16:08	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 29 j 01:48	13°♄58'56	-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 08:16	0°♄	
	1124 Mar 23 j 13:53	0°♄			1129 Mar 11 j 23:51	0°♄	
	1124 May 17 j 23:41	0°♄					
	1124 Jul 07 j 02:22	0°♄		conjunction	1129 Mar 21 j 21:58	7°♄32'51	-0°37'44
	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 14:52	22°♄38'15	
desc. node	1124 Oct 18 j 08:27	8°♄24'08		morning rise	1129 May 24 j 14:31	24°♄01'58	
					1129 Jun 02 j 03:42	0°♄	
conjunction	1124 Nov 10 j 13:13	25°♄03'23	-0°14'18		1129 Jul 16 j 13:35	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 07:32	0°♄		retrograde	1130 Feb 04 j 18:03	9°♄08'44	
	1124 Dec 27 j 08:38	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 15:05	0°♄15'16	-1.5m
	1125 Feb 04 j 04:22	0°♄			1130 Mar 16 j 06:56	30°♄♂	
	1125 Mar 14 j 13:42	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 04:44	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 15:31	0°♄			1130 Sep 16 j 07:04	0°♄	
	1125 Nov 11 j 13:29	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 22:57	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 16:19	21°♄30'36	-1.4m		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	
	1126 Apr 19 j 16:26	0°♄			1131 May 14 j 00:29	0°♄	
	1126 Jun 15 j 15:22	0°♄					

conjunction	1131 May 19 j 17:43	3° Π 55'46	0°24'11	greatest brilliancy	1136 Sep 16 j 05:09	0° Υ 55'43	-2.7m
minimum elong	1131 May 19 j 16:29	3° Π 53'39	0°24'10	opposition	1136 Sep 17 j 03:38	0° Υ 38'12	-4°16'05
max. Earth dist.	1131 Jun 16 j 21:33	22° Π 56'42	2.58027 AU		1136 Sep 19 j 05:08	30° \mathbb{R} \mathbb{H}	
	1131 Jun 27 j 13:02	0° \mathfrak{S}		direct	1136 Oct 17 j 21:32	24° \mathbb{H} 56'20	
morning rise	1131 Jul 11 j 01:57	8° \mathfrak{S} 52'29			1136 Nov 16 j 05:06	0° Υ	
	1131 Aug 12 j 21:59	0° Ω		asc. node	1136 Nov 29 j 09:41	4° Υ 47'36	
	1131 Sep 29 j 23:12	0° \mathbb{M}			1137 Jan 18 j 17:04	0° \mathcal{B}	
	1131 Nov 19 j 06:06	0° $\underline{\mathfrak{L}}$			1137 Mar 10 j 17:30	0° Π	
	1132 Jan 14 j 09:36	0° \mathbb{M}			1137 Apr 28 j 21:38	0° \mathfrak{S}	
retrograde	1132 Mar 22 j 14:39	19° \mathbb{M} 55'37			1137 Jun 16 j 09:57	0° Ω	
opposition	1132 Apr 26 j 20:09	12° \mathbb{M} 42'20	0°00'53	evening set	1137 Jul 29 j 18:08	27° Ω 15'02	
greatest brilliancy	1133 Sep 15 j 09:11	3° \mathbb{M} 40'00	1.8m		1137 Aug 03 j 01:49	0° \mathbb{M}	
desc. node	1132 Apr 27 j 03:18	12° \mathbb{M} 36'02		max. Earth dist.	1137 Aug 27 j 08:29	15° \mathbb{M} 35'45	2.64120 AU
min. Earth dist.	1132 May 05 j 04:38	9° \mathbb{M} 46'27	0.51087 AU				
direct	1132 Jun 04 j 13:43	3° \mathbb{M} 51'41		conjunction	1137 Sep 13 j 10:25	26° \mathbb{M} 43'50	0°49'49
	1132 Aug 16 j 01:03	0° \mathcal{A}		minimum elong	1137 Sep 13 j 11:35	26° \mathbb{M} 45'46	0°49'49
	1132 Sep 30 j 09:45	0° \mathfrak{Z}			1137 Sep 18 j 09:43	0° $\underline{\mathfrak{L}}$	
	1132 Nov 10 j 03:50	0° \approx		morning rise	1137 Oct 29 j 00:42	27° $\underline{\mathfrak{L}}$ 14'36	
	1132 Dec 19 j 19:36	0° \mathbb{H}			1137 Nov 02 j 01:26	0° \mathbb{M}	
	1133 Jan 28 j 23:05	0° Υ			1137 Dec 14 j 23:42	0° \mathcal{A}	
asc. node	1133 Feb 24 j 12:22	19° Υ 19'25		desc. node	1137 Dec 18 j 01:21	2° \mathcal{A} 11'20	
	1133 Mar 11 j 11:44	0° \mathcal{B}			1138 Jan 25 j 09:28	0° \mathfrak{Z}	
	1133 Apr 23 j 19:44	0° Π			1138 Mar 06 j 16:28	0° \approx	
evening set	1133 May 12 j 17:40	12° Π 42'49			1138 Apr 15 j 12:59	0° \mathbb{H}	
	1133 Jun 07 j 22:11	0° \mathfrak{S}			1138 May 26 j 03:02	0° Υ	
					1138 Jul 08 j 17:57	0° \mathcal{B}	
conjunction	1133 Jul 01 j 20:44	15° \mathfrak{S} 32'44	1°01'02		1138 Sep 03 j 08:55	0° Π	
minimum elong	1133 Jul 01 j 19:37	15° \mathfrak{S} 30'56	1°01'01	retrograde	1138 Oct 05 j 07:25	6° Π 24'03	
max. Earth dist.	1133 Jul 12 j 03:39	22° \mathfrak{S} 10'09	2.65474 AU	asc. node	1138 Oct 17 j 08:35	5° Π 20'00	
	1133 Jul 24 j 09:02	0° Ω			1138 Nov 04 j 19:54	30° \mathbb{R} \mathcal{B}	
morning rise	1133 Aug 17 j 08:58	15° Ω 17'19		min. Earth dist.	1138 Nov 05 j 13:20	29° \mathcal{B} 43'42	0.53661 AU
	1133 Sep 09 j 14:01	0° \mathbb{M}		opposition	1138 Nov 12 j 19:23	26° \mathcal{B} 57'07	1°16'12
	1133 Oct 27 j 03:19	0° $\underline{\mathfrak{L}}$		greatest brilliancy	1138 Nov 12 j 10:18	27° \mathcal{B} 05'48	-2.0m
	1133 Dec 14 j 02:58	0° \mathbb{M}		direct	1138 Dec 18 j 03:00	19° \mathcal{B} 05'23	
	1134 Feb 01 j 12:08	0° \mathcal{A}			1139 Feb 03 j 00:13	0° Π	
desc. node	1134 Mar 15 j 02:06	23° \mathcal{A} 21'59			1139 Apr 05 j 02:51	0° \mathfrak{S}	
	1134 Mar 28 j 04:56	0° \mathfrak{Z}			1139 May 27 j 07:02	0° Ω	
retrograde	1134 May 30 j 06:00	18° \mathfrak{Z} 37'21			1139 Jul 15 j 09:14	0° \mathbb{M}	
opposition	1134 Jun 29 j 21:59	13° \mathfrak{Z} 27'39	-5°49'12		1139 Aug 31 j 01:24	0° $\underline{\mathfrak{L}}$	
greatest brilliancy	1134 Jun 30 j 19:28	13° \mathfrak{Z} 12'42	-2.8m	evening set	1139 Sep 05 j 23:54	3° $\underline{\mathfrak{L}}$ 55'47	
min. Earth dist.	1134 Jul 04 j 13:39	12° \mathfrak{Z} 10'18	0.38973 AU	max. Earth dist.	1139 Sep 24 j 04:38	16° $\underline{\mathfrak{L}}$ 08'35	2.55590 AU
direct	1134 Jul 31 j 18:10	7° \mathfrak{Z} 44'06			1139 Oct 14 j 08:59	0° \mathbb{M}	
	1134 Oct 04 j 12:26	0° \approx					
	1134 Nov 21 j 04:40	0° \mathbb{H}		conjunction	1139 Oct 24 j 04:27	6° \mathbb{M} 51'29	0°07'12
	1135 Jan 04 j 08:43	0° Υ		minimum elong	1139 Oct 24 j 04:44	6° \mathbb{M} 52'00	0°07'11
asc. node	1135 Jan 12 j 11:29	5° Υ 32'29		behind sun begin	1139 Oct 23 j 09:46	6° \mathbb{M} 18'41	
	1135 Feb 17 j 12:46	0° \mathcal{B}		behind sun end	1139 Oct 24 j 23:42	7° \mathbb{M} 25'20	
	1135 Apr 03 j 16:56	0° Π		desc. node	1139 Nov 04 j 23:43	15° \mathbb{M} 12'49	
	1135 May 20 j 00:41	0° \mathfrak{S}			1139 Nov 25 j 11:54	0° \mathcal{A}	
evening set	1135 Jun 23 j 06:09	21° \mathfrak{S} 50'13		morning rise	1139 Dec 14 j 12:56	14° \mathcal{A} 01'24	
	1135 Jul 06 j 02:32	0° Ω			1140 Jan 04 j 19:44	0° \mathfrak{Z}	
max. Earth dist.	1135 Aug 04 j 19:15	18° Ω 52'24	2.67513 AU		1140 Feb 12 j 22:32	0° \approx	
					1140 Mar 22 j 13:59	0° \mathbb{H}	
conjunction	1135 Aug 08 j 15:17	21° Ω 18'56	1°08'33		1140 Apr 30 j 15:47	0° Υ	
minimum elong	1135 Aug 08 j 15:35	21° Ω 19'24	1°08'34		1140 Jun 10 j 06:27	0° \mathcal{B}	
	1135 Aug 22 j 05:59	0° \mathbb{M}			1140 Jul 24 j 01:40	0° Π	
morning rise	1135 Sep 22 j 02:16	19° \mathbb{M} 48'30		asc. node	1140 Sep 03 j 08:43	24° Π 41'02	
	1135 Oct 07 j 19:43	0° $\underline{\mathfrak{L}}$			1140 Sep 13 j 15:10	0° \mathfrak{S}	
	1135 Nov 22 j 10:52	0° \mathbb{M}		retrograde	1140 Nov 12 j 04:52	17° \mathfrak{S} 37'18	
	1136 Jan 06 j 02:12	0° \mathcal{A}		min. Earth dist.	1140 Dec 18 j 11:05	9° \mathfrak{S} 10'25	0.63718 AU
desc. node	1136 Jan 31 j 02:28	17° \mathcal{A} 03'39		opposition	1140 Dec 22 j 06:03	7° \mathfrak{S} 39'23	3°50'52
	1136 Feb 18 j 22:31	0° \mathfrak{Z}		greatest brilliancy	1140 Dec 21 j 16:37	7° \mathfrak{S} 52'50	-1.5m
	1136 Apr 02 j 11:59	0° \approx			1141 Jan 14 j 21:47	30° \mathbb{R} Π	
	1136 May 17 j 09:48	0° \mathbb{H}		direct	1141 Jan 30 j 00:21	28° Π 31'19	
	1136 Jul 11 j 06:44	0° Υ			1141 Feb 15 j 01:07	0° \mathfrak{S}	
retrograde	1136 Aug 14 j 12:04	7° Υ 28'06			1141 May 02 j 00:10	0° Ω	
min. Earth dist.	1136 Sep 10 j 00:46	2° Υ 50'31	0.40911 AU		1141 Jun 24 j 02:43	0° \mathbb{M}	

	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 04:57	23°♏06'52	
	1141 Sep 24 j 14:16	0°♏			1146 Jul 04 j 14:04	0°♏	
evening set	1141 Oct 19 j 12:38	17°♏40'51			1146 Aug 20 j 02:01	0°♏	
max. Earth dist.	1141 Nov 04 j 14:43	29°♏24'42	2.43175 AU		1146 Oct 07 j 20:03	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°47'47	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 17:42	0°♏		greatest brilliancy	1147 Apr 09 j 16:52	24°♏52'48	-1.8m
morning rise	1142 Feb 17 j 02:51	19°♏58'14		min. Earth dist.	1147 Apr 16 j 16:33	22°♏18'32	0.56013 AU
	1142 Mar 01 j 21:07	0°♏		desc. node	1147 May 14 j 19:36	15°♏43'03	
	1142 Apr 09 j 12:23	0°♏		direct	1147 May 19 j 07:33	15°♏34'56	
	1142 May 19 j 12:31	0°♏			1147 Jul 10 j 12:26	0°♏	
	1142 Jun 30 j 18:37	0°♏			1147 Aug 30 j 16:32	0°♏	
asc. node	1142 Jul 22 j 07:39	14°♏29'52			1147 Oct 12 j 01:01	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 03:39	0°♏	
opposition	1143 Jan 25 j 23:17	12°♏25'49	4°33'49	asc. node	1148 Mar 13 j 04:19	25°♏41'28	
greatest brilliancy	1143 Jan 25 j 22:39	12°♏26'27	-1.3m		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 04:35	25°♏15'52	
direct	1143 Mar 07 j 18:10	2°♏37'06			1148 May 01 j 02:17	0°♏	
	1143 May 30 j 02:55	0°♏			1148 Jun 14 j 21:36	0°♏	
	1143 Jul 21 j 04:59	0°♏					
desc. node	1143 Aug 09 j 21:29	12°♏33'27		conjunction	1148 Jun 15 j 20:19	0°♏37'19	0°50'24
	1143 Sep 04 j 21:57	0°♏		minimum elong	1148 Jun 15 j 18:50	0°♏34'53	0°50'23
	1143 Oct 16 j 22:52	0°♏		max. Earth dist.	1148 Jul 02 j 14:37	11°♏33'56	2.63198 AU
	1143 Nov 25 j 14:32	0°♏			1148 Jul 31 j 05:47	0°♏	
evening set	1143 Dec 17 j 16:35	17°♏12'57		morning rise	1148 Aug 03 j 02:10	1°♏49'09	
	1144 Jan 02 j 22:09	0°♏			1148 Sep 16 j 15:41	0°♏	
	1144 Feb 09 j 21:36	0°♏			1148 Nov 03 j 22:52	0°♏	
					1148 Dec 23 j 18:52	0°♏	
conjunction	1144 Feb 22 j 19:23	10°♏07'23	-0°57'45		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 18:44	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 10:42	16°♏40'16	-3°26'13
	1144 Apr 28 j 10:53	0°♏		greatest brilliancy	1149 Jun 02 j 08:55	16°♏22'58	-2.6m
morning rise	1144 May 01 j 07:00	2°♏04'41		min. Earth dist.	1149 Jun 09 j 03:02	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 12:38	0°♏	
	1144 Jul 23 j 23:36	0°♏			1149 Oct 22 j 09:22	0°♏	
	1144 Sep 09 j 15:41	0°♏			1149 Dec 03 j 15:47	0°♏	
	1144 Nov 01 j 22:58	0°♏			1150 Jan 14 j 10:57	0°♏	
retrograde	1145 Jan 20 j 13:18	25°♏35'41		asc. node	1150 Jan 29 j 02:32	10°♏22'59	
opposition	1145 Feb 28 j 13:00	16°♏34'42	3°54'26		1150 Feb 26 j 04:58	0°♏	
greatest brilliancy	1145 Mar 01 j 01:56	16°♏22'05	-1.4m		1150 Apr 11 j 10:48	0°♏	
min. Earth dist.	1145 Mar 04 j 11:49	15°♏02'09	0.65031 AU		1150 May 27 j 04:19	0°♏	
direct	1145 Apr 10 j 22:34	6°♏33'16		evening set	1150 Jun 07 j 21:58	7°♏34'37	
	1145 Jun 23 j 06:22	0°♏			1150 Jul 12 j 22:26	0°♏	
desc. node	1145 Jun 26 j 20:03	1°♏53'41					
	1145 Aug 12 j 16:00	0°♏		conjunction	1150 Jul 25 j 08:18	7°♏54'29	1°08'54
	1145 Sep 25 j 01:14	0°♏		minimum elong	1150 Jul 25 j 08:03	7°♏54'05	1°08'53
	1145 Nov 04 j 03:34	0°♏		max. Earth dist.	1150 Jul 26 j 17:58	8°♏48'06	2.67375 AU
	1145 Dec 12 j 15:45	0°♏			1150 Aug 29 j 00:51	0°♏	
	1146 Jan 19 j 19:29	0°♏		morning rise	1150 Sep 08 j 05:23	6°♏30'01	
evening set	1146 Feb 25 j 19:12	28°♏36'00			1150 Oct 14 j 21:14	0°♏	
	1146 Feb 27 j 15:21	0°♏			1150 Nov 30 j 04:42	0°♏	
	1146 Apr 08 j 22:20	0°♏			1151 Jan 15 j 01:43	0°♏	
asc. node	1146 Apr 26 j 05:42	12°♏28'11		desc. node	1151 Feb 16 j 17:50	21°♏23'06	
					1151 Mar 01 j 23:36	0°♏	
conjunction	1146 Apr 29 j 03:01	14°♏31'30	0°01'51		1151 Apr 18 j 08:34	0°♏	
minimum elong	1146 Apr 29 j 02:51	14°♏31'13	0°01'51		1151 Jun 14 j 17:27	0°♏	
behind sun begin	1146 Apr 28 j 02:18	13°♏47'36		retrograde	1151 Jul 19 j 02:15	7°♏11'51	
behind sun end	1146 Apr 30 j 03:24	15°♏14'46		min. Earth dist.	1151 Aug 15 j 18:40	2°♏41'38	0.37817 AU
	1146 May 21 j 04:27	0°♏		opposition	1151 Aug 19 j 06:25	1°♏44'01	-6°26'01

greatest brilliancy	1151 Aug 18 j 15:45	1° H 54'07	-2.9m	max. Earth dist.	1156 Oct 15 j 16:52	9° M 50'19	2.48308 AU
	1151 Aug 25 j 18:42	30° R \approx			1156 Nov 12 j 14:48	0° X	
direct	1151 Sep 17 j 19:06	26° \approx 45'06					
	1151 Oct 10 j 15:29	0° H		conjunction	1156 Nov 21 j 23:54	6° X 55'45	-0°27'02
	1151 Dec 13 j 23:24	0° Y		minimum elong	1156 Nov 21 j 22:30	6° X 53'10	0°27'02
asc. node	1151 Dec 17 j 02:08	1° Y 48'54			1156 Dec 22 j 14:01	0° Z	
	1152 Feb 01 j 06:54	0° B		morning rise	1157 Jan 19 j 16:11	21° Z 41'57	
	1152 Mar 19 j 23:10	0° II			1157 Jan 30 j 07:30	0° \approx	
	1152 May 06 j 16:17	0° E			1157 Mar 09 j 14:29	0° H	
	1152 Jun 23 j 11:41	0° O			1157 Apr 17 j 08:05	0° Y	
evening set	1152 Jul 15 j 08:49	13° O 47'41			1157 May 27 j 10:54	0° B	
	1152 Aug 09 j 21:01	0° M			1157 Jul 09 j 00:29	0° II	
max. Earth dist.	1152 Aug 18 j 01:24	5° M 14'10	2.66078 AU	asc. node	1157 Aug 07 j 23:42	19° II 38'22	
					1157 Aug 24 j 20:07	0° E	
conjunction	1152 Aug 29 j 23:29	12° M 54'19	1°00'03		1157 Oct 22 j 12:51	0° O	
minimum elong	1152 Aug 30 j 00:27	12° M 55'53	1°00'03	retrograde	1157 Dec 03 j 13:12	9° O 16'15	
	1152 Sep 25 j 05:51	0° E		min. Earth dist.	1158 Jan 11 j 07:45	29° E 59'47	0.66915 AU
morning rise	1152 Oct 13 j 16:57	12° E 12'02			1158 Jan 11 j 07:32	30° R E	
	1152 Nov 09 j 04:40	0° M		opposition	1158 Jan 12 j 18:25	29° E 25'04	4°27'30
	1152 Dec 22 j 15:36	0° X		greatest brilliancy	1158 Jan 12 j 12:01	29° E 31'29	-1.3m
desc. node	1153 Jan 03 j 17:00	8° X 30'08		direct	1158 Feb 21 j 22:17	19° E 48'55	
	1153 Feb 02 j 18:14	0° Z			1158 Apr 09 j 01:09	0° O	
	1153 Mar 15 j 21:26	0° \approx			1158 Jun 09 j 13:09	0° M	
	1153 Apr 25 j 18:40	0° H			1158 Jul 29 j 09:35	0° E	
	1153 Jun 07 j 00:43	0° Y		desc. node	1158 Aug 26 j 13:30	18° E 26'38	
	1153 Jul 25 j 15:04	0° B			1158 Sep 12 j 11:51	0° M	
retrograde	1153 Sep 17 j 08:33	16° B 31'45			1158 Oct 24 j 09:20	0° X	
min. Earth dist.	1153 Oct 16 j 10:50	10° B 41'41	0.48544 AU	evening set	1158 Nov 22 j 08:51	21° X 47'19	
opposition	1153 Oct 24 j 11:41	7° B 46'21	-0°30'44		1158 Dec 03 j 01:22	0° Z	
greatest brilliancy	1153 Oct 24 j 08:11	7° B 49'32	-2.3m		1159 Jan 10 j 10:20	0° \approx	
asc. node	1153 Nov 03 j 01:46	4° B 30'45		max. Earth dist.	1159 Jan 23 j 04:40	10° \approx 04'46	2.37125 AU
direct	1153 Nov 27 j 01:40	0° B 39'20					
	1154 Feb 20 j 04:16	0° II		conjunction	1159 Jan 24 j 17:22	11° \approx 17'16	-1°04'57
	1154 Apr 14 j 19:42	0° E		minimum elong	1159 Jan 24 j 17:16	11° \approx 17'04	1°04'58
	1154 Jun 04 j 02:08	0° O			1159 Feb 17 j 10:34	0° H	
	1154 Jul 22 j 11:27	0° M			1159 Mar 27 j 23:55	0° Y	
evening set	1154 Aug 21 j 17:26	19° M 22'26		morning rise	1159 Apr 05 j 04:39	6° Y 15'43	
	1154 Sep 06 j 23:03	0° E			1159 May 06 j 22:18	0° B	
max. Earth dist.	1154 Sep 12 j 12:13	3° E 40'23	2.59511 AU		1159 Jun 17 j 22:29	0° II	
				asc. node	1159 Jun 25 j 22:52	5° II 31'35	
conjunction	1154 Oct 07 j 11:38	20° E 28'04	0°26'16		1159 Aug 01 j 16:35	0° E	
minimum elong	1154 Oct 07 j 12:34	20° E 29'39	0°26'16		1159 Sep 19 j 09:28	0° O	
	1154 Oct 21 j 08:48	0° M			1159 Nov 16 j 19:28	0° M	
desc. node	1154 Nov 21 j 15:48	22° M 01'01		retrograde	1160 Jan 07 j 05:55	12° M 35'06	
morning rise	1154 Nov 24 j 20:06	24° M 17'40		opposition	1160 Feb 15 j 19:25	3° M 15'30	4°19'27
	1154 Dec 02 j 18:06	0° X		greatest brilliancy	1160 Feb 16 j 03:42	3° M 07'20	-1.3m
	1155 Jan 12 j 10:14	0° Z		min. Earth dist.	1160 Feb 18 j 06:05	2° M 17'37	0.66876 AU
	1155 Feb 20 j 21:41	0° \approx			1160 Feb 24 j 04:50	30° R O	
	1155 Mar 31 j 21:12	0° H		direct	1160 Mar 28 j 04:05	23° O 15'12	
	1155 May 10 j 07:31	0° Y			1160 May 03 j 05:38	0° M	
	1155 Jun 20 j 12:41	0° B			1160 Jul 04 j 21:09	0° E	
	1155 Aug 05 j 00:59	0° II		desc. node	1160 Jul 13 j 13:04	5° E 06'37	
asc. node	1155 Sep 21 j 00:16	24° II 17'49			1160 Aug 21 j 14:20	0° M	
	1155 Oct 08 j 04:11	0° E			1160 Oct 03 j 06:03	0° X	
retrograde	1155 Oct 29 j 21:50	2° E 59'01			1160 Nov 12 j 01:59	0° Z	
	1155 Nov 19 j 12:13	30° R II			1160 Dec 20 j 10:54	0° \approx	
min. Earth dist.	1155 Dec 03 j 08:18	25° II 09'44	0.60450 AU		1161 Jan 27 j 11:40	0° H	
opposition	1155 Dec 08 j 14:25	23° II 04'40	3°07'34	evening set	1161 Jan 29 j 10:27	1° H 31'48	
greatest brilliancy	1155 Dec 07 j 23:12	23° II 19'46	-1.6m		1161 Mar 07 j 03:49	0° Y	
direct	1156 Jan 15 j 04:54	14° II 21'02					
	1156 Mar 14 j 04:25	0° E		conjunction	1161 Apr 05 j 16:10	22° Y 12'13	-0°23'25
	1156 May 12 j 00:11	0° O		minimum elong	1161 Apr 05 j 17:56	22° Y 15'29	0°23'23
	1156 Jul 01 j 23:59	0° M			1161 Apr 16 j 06:35	0° B	
	1156 Aug 18 j 07:31	0° E		asc. node	1161 May 12 j 20:44	19° B 07'43	
evening set	1156 Sep 30 j 23:17	29° E 29'12		max. Earth dist.	1161 May 20 j 14:28	24° B 34'47	2.48758 AU
	1156 Oct 01 j 16:59	0° M			1161 May 28 j 08:52	0° II	
desc. node	1156 Oct 08 j 14:11	4° M 48'56		morning rise	1161 Jun 05 j 10:54	5° II 35'13	

	1161 Jul 11 j 17:21	0°☾			1166 Jul 20 j 09:45	30°☿☾		
	1161 Aug 27 j 11:31	0°♊	direct		1166 Aug 17 j 03:12	25°☾☾33'37		
	1161 Oct 16 j 07:24	0°♍			1166 Sep 12 j 14:32	0°♌		
	1161 Dec 12 j 04:55	0°♋			1166 Nov 11 j 11:07	0°♏		
retrograde	1162 Feb 13 j 23:19	17°♋43'49			1166 Dec 28 j 05:14	0°♐		
opposition	1162 Mar 23 j 17:23	9°♋19'50 2°44'10	asc. node		1167 Jan 02 j 18:06	3°♐39'14		
greatest brilliancy	1162 Mar 24 j 08:49	9°♋05'10 -1.6m			1167 Feb 11 j 14:01	0°♑		
min. Earth dist.	1162 Mar 29 j 22:02	6°♋58'49 0.60275 AU			1167 Mar 29 j 10:23	0°♒		
	1162 Apr 24 j 22:29	30°☿♍			1167 May 15 j 03:46	0°☾		
direct	1162 May 03 j 15:38	29°♍29'59	evening set		1167 Jul 01 j 18:53	0°♊12'59		
	1162 May 12 j 14:16	0°♋			1167 Jul 01 j 10:40	0°♊		
desc. node	1162 May 31 j 11:29	3°♋58'12	max. Earth dist.		1167 Aug 10 j 01:46	25°♊09'35 2.67225 AU		
	1162 Jul 26 j 04:24	0°♌						
	1162 Sep 10 j 08:28	0°♌	conjunction		1167 Aug 16 j 18:40	29°♊26'21 1°06'32		
	1162 Oct 21 j 09:40	0°☾	minimum elong		1167 Aug 16 j 19:15	29°♊27'17 1°06'31		
	1162 Nov 29 j 09:14	0°♌			1167 Aug 17 j 15:43	0°♍		
	1163 Jan 06 j 21:28	0°♏	morning rise		1167 Sep 30 j 04:55	28°♍05'09		
	1163 Feb 15 j 01:35	0°♐			1167 Oct 03 j 03:23	0°♋		
	1163 Mar 27 j 17:07	0°♑			1167 Nov 17 j 12:08	0°♌		
asc. node	1163 Mar 30 j 20:20	2°♑15'29			1167 Dec 31 j 16:13	0°♌		
evening set	1163 Apr 04 j 12:21	5°♑36'22	desc. node		1168 Jan 21 j 08:29	14°♌18'32		
	1163 May 09 j 06:52	0°♒			1168 Feb 12 j 18:55	0°☾		
					1168 Mar 26 j 05:52	0°♌		
conjunction	1163 May 30 j 11:10	14°♒24'54 0°35'09			1168 May 08 j 01:29	0°♏		
minimum elong	1163 May 30 j 09:40	14°♒22'22 0°35'08			1168 Jun 23 j 15:18	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 10:29	0°☾22'53 2.60087 AU	min. Earth dist.		1168 Sep 23 j 22:09	18°♐02'50 0.43403 AU		
morning rise	1163 Jul 20 j 03:08	17°☾47'17	opposition		1168 Oct 01 j 19:41	15°♐25'25 -2°49'07		
	1163 Aug 08 j 04:01	0°♊	greatest brilliancy		1168 Oct 01 j 02:07	15°♐40'07 -2.6m		
	1163 Sep 24 j 22:04	0°♍	direct		1168 Nov 02 j 14:07	9°♐12'14		
	1163 Nov 13 j 07:18	0°♋	asc. node		1168 Nov 19 j 17:05	11°♐02'17		
	1164 Jan 05 j 06:19	0°♌			1169 Jan 08 j 13:22	0°♑		
	1164 Mar 21 j 15:20	0°♌			1169 Mar 04 j 03:34	0°♒		
retrograde	1164 Apr 04 j 09:52	1°♌05'55			1169 Apr 23 j 11:59	0°☾		
desc. node	1164 Apr 17 j 09:57	0°♌02'38			1169 Jun 11 j 12:49	0°♊		
	1164 Apr 17 j 16:20	30°☿♌			1169 Jul 29 j 10:18	0°♍		
opposition	1164 May 08 j 16:03	24°♌18'23 -1°06'36	evening set		1169 Aug 07 j 00:54	5°♍29'15		
greatest brilliancy	1164 May 09 j 00:26	24°♌11'16 -2.3m	max. Earth dist.		1169 Sep 02 j 01:13	22°♍17'17 2.62674 AU		
min. Earth dist.	1164 May 17 j 04:21	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 23:43	0°♌	conjunction		1169 Sep 21 j 23:07	5°♋23'46 0°42'10		
	1164 Sep 22 j 17:06	0°☾	minimum elong		1169 Sep 22 j 00:17	5°♋25'43 0°42'10		
	1164 Nov 03 j 16:25	0°♌			1169 Oct 28 j 08:55	0°♌		
	1164 Dec 13 j 23:28	0°♏	morning rise		1169 Nov 07 j 08:03	6°♌53'02		
	1165 Jan 23 j 13:10	0°♐	desc. node		1169 Dec 08 j 07:22	28°♌42'54		
asc. node	1165 Feb 14 j 20:03	16°♐07'01			1169 Dec 10 j 02:27	0°♌		
	1165 Mar 06 j 09:40	0°♑			1170 Jan 20 j 05:26	0°☾		
	1165 Apr 18 j 23:26	0°♒			1170 Mar 01 j 04:40	0°♌		
evening set	1165 May 22 j 14:10	22°♒22'20			1170 Apr 09 j 16:19	0°♏		
	1165 Jun 03 j 05:49	0°☾			1170 May 19 j 17:13	0°♐		
					1170 Jul 01 j 02:19	0°♑		
conjunction	1165 Jul 10 j 14:35	24°☾08'37 1°05'09			1170 Aug 19 j 17:58	0°♒		
minimum elong	1165 Jul 10 j 13:46	24°☾07'19 1°05'08	asc. node		1170 Oct 07 j 16:56	16°♒32'18		
max. Earth dist.	1165 Jul 17 j 14:52	28°☾38'02 2.66372 AU	retrograde		1170 Oct 14 j 15:02	16°♒52'24		
	1165 Jul 19 j 18:09	0°♊	min. Earth dist.		1170 Nov 16 j 01:05	9°♒46'25 0.56284 AU		
morning rise	1165 Aug 25 j 09:41	23°♊20'14	opposition		1170 Nov 22 j 15:53	7°♒11'57 2°04'04		
	1165 Sep 04 j 21:29	0°♍	greatest brilliancy		1170 Nov 22 j 02:48	7°♒24'40 -1.9m		
	1165 Oct 22 j 03:35	0°♋			1170 Dec 16 j 13:19	30°☿♑		
	1165 Dec 08 j 09:59	0°♌	direct		1170 Dec 28 j 20:59	28°♑59'38		
	1166 Jan 25 j 04:28	0°♌			1171 Jan 10 j 19:24	0°♒		
desc. node	1166 Mar 05 j 09:30	23°♌47'22			1171 Mar 28 j 22:51	0°☾		
	1166 Mar 16 j 02:03	0°☾			1171 May 21 j 19:39	0°♊		
	1166 May 17 j 03:56	0°♌			1171 Jul 10 j 12:01	0°♍		
retrograde	1166 Jun 17 j 15:48	5°♌40'24			1171 Aug 26 j 09:35	0°♋		
opposition	1166 Jul 17 j 17:10	0°♌42'51 -6°41'30	evening set		1171 Sep 15 j 01:19	13°♋05'26		
greatest brilliancy	1166 Jul 18 j 04:34	0°♌35'16 -2.9m	max. Earth dist.		1171 Oct 01 j 12:25	24°♋18'10 2.53141 AU		
min. Earth dist.	1166 Jul 19 j 17:23	0°♌10'50 0.37684 AU			1171 Oct 09 j 18:04	0°♌		

desc. node	1171 Oct 26 j 06:46	11° \mathbb{M} 36'32			1176 Oct 25 j 19:15	0° \mathbb{M}		
					1177 Jan 02 j 19:10	0° \mathbb{L}		
conjunction	1171 Nov 03 j 08:47	17° \mathbb{M} 22'27	-0°05'00	retrograde	1177 Jan 29 j 01:54	3° \mathbb{L} 44'06		
minimum elong	1171 Nov 03 j 08:31	17° \mathbb{M} 22'00	0°05'00		1177 Feb 22 j 08:48	30° \mathbb{R} \mathbb{M}		
behind sun begin	1171 Nov 02 j 11:47	16° \mathbb{M} 44'52		opposition	1177 Mar 08 j 16:53	24° \mathbb{M} 54'52	3°33'10	
behind sun end	1171 Nov 04 j 05:16	17° \mathbb{M} 59'09		greatest brilliancy	1177 Mar 09 j 07:30	24° \mathbb{M} 40'43	-1.5m	
	1171 Nov 20 j 19:26	0° \mathbb{X}		min. Earth dist.	1177 Mar 13 j 11:38	23° \mathbb{M} 03'52	0.63607 AU	
morning rise	1171 Dec 26 j 23:03	26° \mathbb{X} 55'49		direct	1177 Apr 19 j 01:05	14° \mathbb{M} 55'14		
	1171 Dec 31 j 00:06	0° \mathbb{Z}			1177 Jun 13 j 20:18	0° \mathbb{L}		
	1172 Feb 07 j 23:10	0° \approx		desc. node	1177 Jun 17 j 03:08	1° \mathbb{L} 32'38		
	1172 Mar 17 j 11:00	0° \mathbb{H}			1177 Aug 06 j 10:19	0° \mathbb{M}		
	1172 Apr 25 j 08:43	0° \mathbb{Y}			1177 Sep 19 j 13:45	0° \mathbb{X}		
	1172 Jun 04 j 17:09	0° \mathbb{B}			1177 Oct 29 j 22:46	0° \mathbb{Z}		
	1172 Jul 17 j 21:09	0° \mathbb{II}			1177 Dec 07 j 14:10	0° \approx		
asc. node	1172 Aug 24 j 15:03	23° \mathbb{II} 37'05			1178 Jan 14 j 20:12	0° \mathbb{H}		
	1172 Sep 04 j 21:26	0° \mathbb{G}			1178 Feb 22 j 18:04	0° \mathbb{Y}		
retrograde	1172 Nov 20 j 02:10	26° \mathbb{G} 00'17		evening set	1178 Mar 12 j 05:00	13° \mathbb{Y} 07'50		
min. Earth dist.	1172 Dec 27 j 07:35	17° \mathbb{G} 14'27	0.65147 AU		1178 Apr 04 j 03:03	0° \mathbb{B}		
opposition	1172 Dec 30 j 06:26	16° \mathbb{G} 03'30	4°08'31	asc. node	1178 Apr 16 j 12:41	8° \mathbb{B} 56'36		
greatest brilliancy	1172 Dec 29 j 19:05	16° \mathbb{G} 14'51	-1.4m					
direct	1173 Feb 07 j 14:18	6° \mathbb{G} 44'06		conjunction	1178 May 11 j 03:24	26° \mathbb{B} 18'58	0°15'11	
	1173 Apr 24 j 09:35	0° \mathbb{Q}		minimum elong	1178 May 11 j 02:32	26° \mathbb{B} 17'26	0°15'10	
	1173 Jun 18 j 13:28	0° \mathbb{M}		behind sun begin	1178 May 10 j 19:45	26° \mathbb{B} 05'39		
	1173 Aug 06 j 02:43	0° \mathbb{L}		behind sun end	1178 May 11 j 09:18	26° \mathbb{B} 29'13		
desc. node	1173 Sep 12 j 05:37	24° \mathbb{L} 44'21			1178 May 16 j 10:51	0° \mathbb{II}		
	1173 Sep 19 j 20:23	0° \mathbb{M}		max. Earth dist.	1178 Jun 11 j 21:21	18° \mathbb{II} 01'31	2.56190 AU	
evening set	1173 Oct 30 j 22:48	29° \mathbb{M} 26'02			1178 Jun 29 j 20:39	0° \mathbb{G}		
	1173 Oct 31 j 17:14	0° \mathbb{X}		morning rise	1178 Jul 04 j 00:49	2° \mathbb{G} 45'03		
max. Earth dist.	1173 Nov 20 j 10:54	14° \mathbb{X} 43'54	2.40461 AU		1178 Aug 15 j 05:27	0° \mathbb{Q}		
	1173 Dec 10 j 11:25	0° \mathbb{Z}			1178 Oct 02 j 12:09	0° \mathbb{M}		
					1178 Nov 22 j 13:49	0° \mathbb{L}		
conjunction	1173 Dec 28 j 08:06	13° \mathbb{Z} 50'32	-0°57'08		1179 Jan 21 j 05:42	0° \mathbb{M}		
minimum elong	1173 Dec 28 j 05:55	13° \mathbb{Z} 46'16	0°57'06	retrograde	1179 Mar 14 j 13:50	12° \mathbb{M} 47'08		
	1174 Jan 17 j 22:52	0° \approx		opposition	1179 Apr 19 j 11:36	5° \mathbb{M} 15'13	0°44'20	
	1174 Feb 25 j 00:45	0° \mathbb{H}		greatest brilliancy	1179 Apr 19 j 17:43	5° \mathbb{M} 09'43	-2.0m	
morning rise	1174 Mar 06 j 03:37	7° \mathbb{H} 09'19		min. Earth dist.	1179 Apr 27 j 12:42	2° \mathbb{M} 21'45	0.53370 AU	
	1174 Apr 04 j 14:22	0° \mathbb{Y}			1179 May 04 j 15:55	30° \mathbb{R} \mathbb{L}		
	1174 May 14 j 12:28	0° \mathbb{B}		desc. node	1179 May 05 j 01:56	29° \mathbb{L} 52'24		
	1174 Jun 25 j 14:28	0° \mathbb{II}		direct	1179 May 28 j 22:38	26° \mathbb{L} 04'57		
asc. node	1174 Jul 12 j 13:49	11° \mathbb{II} 33'28			1179 Jun 23 j 02:06	0° \mathbb{M}		
	1174 Aug 09 j 18:58	0° \mathbb{G}			1179 Aug 22 j 21:03	0° \mathbb{X}		
	1174 Sep 29 j 07:06	0° \mathbb{Q}			1179 Oct 05 j 16:31	0° \mathbb{Z}		
retrograde	1174 Dec 24 j 14:15	29° \mathbb{Q} 53'30			1179 Nov 14 j 20:37	0° \approx		
opposition	1175 Feb 02 j 13:09	20° \mathbb{Q} 19'00	4°31'57		1179 Dec 24 j 03:36	0° \mathbb{H}		
greatest brilliancy	1175 Feb 02 j 15:50	20° \mathbb{Q} 16'20	-1.3m		1180 Feb 01 j 23:28	0° \mathbb{Y}		
min. Earth dist.	1175 Feb 03 j 11:32	19° \mathbb{Q} 56'45	0.67685 AU	asc. node	1180 Mar 03 j 11:18	22° \mathbb{Y} 18'10		
direct	1175 Mar 15 j 14:42	10° \mathbb{Q} 24'56			1180 Mar 14 j 05:15	0° \mathbb{B}		
	1175 May 22 j 00:52	0° \mathbb{M}			1180 Apr 26 j 07:19	0° \mathbb{II}		
	1175 Jul 15 j 11:14	0° \mathbb{L}		evening set	1180 May 04 j 23:22	5° \mathbb{II} 52'56		
desc. node	1175 Jul 31 j 04:12	9° \mathbb{L} 47'40			1180 Jun 10 j 05:22	0° \mathbb{G}		
	1175 Aug 30 j 18:52	0° \mathbb{M}						
	1175 Oct 12 j 01:00	0° \mathbb{X}		conjunction	1180 Jun 25 j 03:29	9° \mathbb{G} 44'25	0°57'07	
	1175 Nov 20 j 18:20	0° \mathbb{Z}		minimum elong	1180 Jun 25 j 02:11	9° \mathbb{G} 42'18	0°57'06	
	1175 Dec 29 j 02:25	0° \approx		max. Earth dist.	1180 Jul 08 j 07:12	18° \mathbb{G} 15'19	2.64561 AU	
evening set	1176 Jan 02 j 02:06	3° \approx 08'56			1180 Jul 26 j 14:08	0° \mathbb{Q}		
	1176 Feb 05 j 02:08	0° \mathbb{H}		morning rise	1180 Aug 11 j 08:33	10° \mathbb{Q} 03'14		
					1180 Sep 11 j 20:40	0° \mathbb{M}		
conjunction	1176 Mar 09 j 21:49	26° \mathbb{H} 20'40	-0°47'29		1180 Oct 29 j 16:44	0° \mathbb{L}		
minimum elong	1176 Mar 10 j 00:57	26° \mathbb{H} 26'42	0°47'27		1180 Dec 17 j 08:52	0° \mathbb{M}		
	1176 Mar 14 j 16:05	0° \mathbb{Y}			1181 Feb 06 j 11:04	0° \mathbb{X}		
	1176 Apr 23 j 15:42	0° \mathbb{B}		desc. node	1181 Mar 22 j 00:30	22° \mathbb{X} 20'31		
max. Earth dist.	1176 Apr 30 j 04:11	4° \mathbb{B} 45'44	2.43349 AU		1181 Apr 10 j 00:23	0° \mathbb{Z}		
morning rise	1176 May 14 j 21:55	15° \mathbb{B} 23'25		retrograde	1181 May 16 j 12:38	7° \mathbb{Z} 07'26		
asc. node	1176 May 29 j 13:55	25° \mathbb{B} 46'07		opposition	1181 Jun 16 j 21:25	1° \mathbb{Z} 38'57	-4°50'40	
	1176 Jun 04 j 15:20	0° \mathbb{II}		greatest brilliancy	1181 Jun 17 j 22:06	1° \mathbb{Z} 20'51	-2.7m	
	1176 Jul 19 j 00:22	0° \mathbb{G}			1181 Jun 22 j 12:55	30° \mathbb{R} \mathbb{X}		
	1176 Sep 04 j 05:14	0° \mathbb{Q}		min. Earth dist.	1181 Jun 23 j 04:56	29° \mathbb{X} 48'33	0.40572 AU	

direct	1181 Jul 20 j 04:12	25°♂18'56		behind sun begin	1186 Oct 16 j 14:37	29°♂54'14	
	1181 Aug 16 j 01:21	0°♂		behind sun end	1186 Oct 17 j 01:27	0°♂13'00	
	1181 Oct 12 j 21:15	0°♂			1186 Oct 16 j 17:57	0°♂	
	1181 Nov 26 j 09:53	0°♂		desc. node	1186 Nov 11 j 22:22	18°♂24'42	
	1182 Jan 08 j 07:28	0°♂			1186 Nov 28 j 00:44	0°♂	
asc. node	1182 Jan 19 j 10:34	7°♂45'26		morning rise	1186 Dec 05 j 16:11	5°♂34'18	
	1182 Feb 20 j 17:24	0°♂			1187 Jan 07 j 13:00	0°♂	
	1182 Apr 06 j 09:46	0°♂			1187 Feb 15 j 19:53	0°♂	
	1182 May 22 j 09:54	0°♂			1187 Mar 26 j 14:45	0°♂	
evening set	1182 Jun 16 j 18:41	16°♂16'08			1187 May 04 j 19:13	0°♂	
	1182 Jul 08 j 07:37	0°♂			1187 Jun 14 j 13:45	0°♂	
max. Earth dist.	1182 Aug 01 j 00:21	15°♂04'30	2.67559 AU		1187 Jul 28 j 20:35	0°♂	
				asc. node	1187 Sep 11 j 07:57	25°♂26'07	
conjunction	1182 Aug 02 j 13:24	16°♂03'27	1°09'10		1187 Sep 21 j 02:33	0°♂	
minimum elong	1182 Aug 02 j 13:29	16°♂03'35	1°09'10	retrograde	1187 Nov 07 j 04:44	11°♂57'28	
	1182 Aug 24 j 10:35	0°♂		min. Earth dist.	1187 Dec 12 j 16:03	3°♂46'53	0.62368 AU
morning rise	1182 Sep 16 j 03:36	14°♂32'08		opposition	1187 Dec 17 j 02:57	2°♂00'20	3°35'07
	1182 Oct 10 j 03:19	0°♂		greatest brilliancy	1187 Dec 16 j 12:16	2°♂14'58	-1.5m
	1182 Nov 25 j 01:38	0°♂			1187 Dec 22 j 05:44	30°♂	
	1183 Jan 09 j 05:15	0°♂		direct	1188 Jan 24 j 09:48	23°♂02'23	
desc. node	1183 Feb 07 j 01:02	19°♂21'16			1188 Mar 01 j 07:28	0°♂	
	1183 Feb 22 j 20:22	0°♂			1188 May 05 j 14:42	0°♂	
	1183 Apr 08 j 16:37	0°♂			1188 Jun 26 j 18:56	0°♂	
	1183 May 26 j 09:59	0°♂			1188 Aug 13 j 12:14	0°♂	
retrograde	1183 Aug 04 j 05:53	25°♂07'56			1188 Sep 27 j 00:48	0°♂	
min. Earth dist.	1183 Aug 30 j 19:22	20°♂40'34	0.39233 AU	desc. node	1188 Sep 28 j 21:07	1°♂17'11	
opposition	1183 Sep 05 j 16:19	18°♂57'44	-5°20'06	evening set	1188 Oct 11 j 06:20	9°♂59'54	
greatest brilliancy	1183 Sep 04 j 18:19	19°♂13'51	-2.8m	max. Earth dist.	1188 Oct 25 j 23:43	20°♂33'06	2.45475 AU
direct	1183 Oct 05 j 16:40	13°♂39'00			1188 Nov 07 j 22:32	0°♂	
	1183 Dec 01 j 09:52	0°♂					
asc. node	1183 Dec 07 j 09:03	2°♂56'10		conjunction	1188 Dec 04 j 05:53	19°♂38'33	-0°39'18
	1184 Jan 24 j 19:28	0°♂		minimum elong	1188 Dec 04 j 03:52	19°♂34'45	0°39'17
	1184 Mar 14 j 02:31	0°♂			1188 Dec 17 j 20:07	0°♂	
	1184 May 01 j 13:21	0°♂			1189 Jan 25 j 11:19	0°♂	
	1184 Jun 18 j 17:36	0°♂		morning rise	1189 Feb 04 j 06:22	7°♂41'04	
evening set	1184 Jul 23 j 14:31	21°♂56'26			1189 Mar 04 j 16:14	0°♂	
	1184 Aug 05 j 06:52	0°♂			1189 Apr 12 j 07:52	0°♂	
max. Earth dist.	1184 Aug 23 j 11:30	11°♂39'45	2.65104 AU		1189 May 22 j 07:47	0°♂	
					1189 Jul 03 j 15:03	0°♂	
conjunction	1184 Sep 07 j 04:24	21°♂11'10	0°54'33	asc. node	1189 Jul 29 j 07:09	17°♂08'01	
minimum elong	1184 Sep 07 j 05:31	21°♂12'58	0°54'32		1189 Aug 18 j 14:37	0°♂	
	1184 Sep 20 j 15:47	0°♂			1189 Oct 11 j 16:45	0°♂	
morning rise	1184 Oct 22 j 07:34	21°♂04'28		retrograde	1189 Dec 11 j 04:52	17°♂08'49	
	1184 Nov 04 j 11:26	0°♂		opposition	1190 Jan 20 j 09:11	7°♂22'46	4°32'39
	1184 Dec 17 j 15:57	0°♂		greatest brilliancy	1190 Jan 20 j 05:57	7°♂26'01	-1.3m
desc. node	1184 Dec 25 j 00:09	5°♂12'31		min. Earth dist.	1190 Jan 19 j 18:55	7°♂37'02	0.67465 AU
	1185 Jan 28 j 09:23	0°♂			1190 Feb 10 j 18:29	30°♂	
	1185 Mar 10 j 00:47	0°♂		direct	1190 Mar 01 j 22:18	27°♂39'11	
	1185 Apr 19 j 06:39	0°♂			1190 Mar 22 j 11:00	0°♂	
	1185 May 30 j 09:26	0°♂			1190 Jun 02 j 22:50	0°♂	
	1185 Jul 14 j 08:39	0°♂			1190 Jul 24 j 01:39	0°♂	
retrograde	1185 Sep 27 j 20:15	28°♂38'43		desc. node	1190 Aug 16 j 20:26	15°♂20'19	
asc. node	1185 Oct 24 j 07:47	23°♂42'10			1190 Sep 07 j 13:39	0°♂	
min. Earth dist.	1185 Oct 28 j 02:45	22°♂21'06	0.51414 AU		1190 Oct 19 j 14:26	0°♂	
opposition	1185 Nov 04 j 19:50	19°♂27'31	0°34'49		1190 Nov 28 j 07:06	0°♂	
greatest brilliancy	1185 Nov 04 j 15:20	19°♂31'44	-2.1m	evening set	1190 Dec 06 j 06:15	6°♂10'14	
direct	1185 Dec 09 j 09:32	11°♂54'38			1191 Jan 05 j 15:32	0°♂	
	1186 Feb 10 j 12:12	0°♂					
	1186 Apr 08 j 14:58	0°♂		conjunction	1191 Feb 10 j 00:21	27°♂56'28	-1°02'46
	1186 May 29 j 21:56	0°♂		minimum elong	1191 Feb 10 j 02:02	27°♂59'47	1°02'45
	1186 Jul 17 j 17:14	0°♂			1191 Feb 12 j 15:06	0°♂	
evening set	1186 Aug 30 j 08:33	28°♂01'59			1191 Mar 23 j 03:54	0°♂	
	1186 Sep 02 j 08:19	0°♂		max. Earth dist.	1191 Mar 24 j 11:52	1°♂01'18	2.38353 AU
max. Earth dist.	1186 Sep 19 j 00:10	11°♂04'56	2.57439 AU	morning rise	1191 Apr 20 j 22:19	21°♂45'35	
					1191 May 02 j 01:36	0°♂	
conjunction	1186 Oct 16 j 19:25	0°♂02'32	0°15'37		1191 Jun 13 j 00:17	0°♂	
minimum elong	1186 Oct 16 j 20:02	0°♂03'37	0°15'37	asc. node	1191 Jun 16 j 05:20	2°♂13'38	

	1191 Jul 27 j 12:58	0°☿			1196 Oct 27 j 12:37	0°♊		
	1191 Sep 13 j 12:06	0°♈			1196 Dec 07 j 17:36	0°♋		
	1191 Nov 07 j 06:49	0°♉			1197 Jan 17 j 21:14	0°♌		
retrograde	1192 Jan 15 j 08:05	20°♊28'07		asc. node	1197 Feb 05 j 01:48	13°♌02'22		
opposition	1192 Feb 23 j 15:00	11°♊18'24	4°06'15		1197 Mar 01 j 03:36	0°♍		
greatest brilliancy	1192 Feb 24 j 02:01	11°♊07'36	-1.4m		1197 Apr 14 j 00:50	0°♎		
min. Earth dist.	1192 Feb 26 j 22:07	10°♊00'50	0.65982 AU		1197 May 29 j 12:12	0°☿		
direct	1192 Apr 05 j 01:23	1°♊16'49		evening set	1197 Jun 01 j 01:34	1°☿39'39		
	1192 Jun 27 j 18:00	0°♊			1197 Jul 15 j 03:08	0°♈		
desc. node	1192 Jul 03 j 18:47	3°♊22'01						
	1192 Aug 15 j 22:36	0°♋		conjunction	1197 Jul 19 j 02:52	2°♈32'48	1°07'49	
	1192 Sep 28 j 01:16	0°♌		minimum elong	1197 Jul 19 j 02:23	2°♈32'02	1°07'49	
	1192 Nov 07 j 01:40	0°♍		max. Earth dist.	1197 Jul 22 j 22:15	4°♈58'33	2.67037 AU	
	1192 Dec 15 j 12:38	0°♎			1197 Aug 31 j 05:40	0°♏		
	1193 Jan 22 j 14:49	0°♏		morning rise	1197 Sep 02 j 08:09	1°♏20'19		
evening set	1193 Feb 14 j 02:00	17°♏30'32			1197 Oct 17 j 06:05	0°♐		
	1193 Mar 02 j 08:13	0°♑			1197 Dec 02 j 23:11	0°♒		
	1193 Apr 11 j 11:59	0°♒			1198 Jan 18 j 13:52	0°♓		
				desc. node	1198 Feb 23 j 16:25	22°♓59'28		
conjunction	1193 Apr 19 j 07:34	5°♒40'50	-0°08'50		1198 Mar 06 j 20:53	0°♈		
minimum elong	1193 Apr 19 j 08:11	5°♒41'58	0°08'49		1198 Apr 26 j 14:49	0°♊		
behind sun begin	1193 Apr 18 j 10:31	5°♒02'45		retrograde	1198 Jul 05 j 15:17	23°♊40'36		
behind sun end	1193 Apr 20 j 05:52	6°♒21'08		min. Earth dist.	1198 Aug 03 j 23:00	18°♊52'29	0.37346 AU	
asc. node	1193 May 03 j 05:00	15°♒39'00		opposition	1198 Aug 05 j 01:11	18°♊35'00	-6°51'13	
	1193 May 23 j 14:59	0°♋		greatest brilliancy	1198 Aug 04 j 21:41	18°♊37'21	-2.9m	
max. Earth dist.	1193 May 29 j 12:34	4°♋04'56	2.51560 AU	direct	1198 Sep 03 j 17:11	13°♊39'56		
morning rise	1193 Jun 16 j 09:20	16°♋16'33			1198 Oct 28 j 22:47	0°♌		
	1193 Jul 06 j 22:25	0°☿			1198 Dec 20 j 01:38	0°♍		
	1193 Aug 22 j 11:24	0°♈		asc. node	1198 Dec 24 j 01:03	2°♍28'47		
	1193 Oct 10 j 13:42	0°♉			1199 Feb 05 j 05:38	0°♋		
	1193 Dec 03 j 12:19	0°♊			1199 Mar 23 j 23:23	0°♌		
retrograde	1194 Feb 23 j 17:33	26°♊41'23			1199 May 10 j 04:28	0°☿		
opposition	1194 Apr 01 j 22:02	18°♊34'03	2°06'53		1199 Jun 26 j 17:53	0°♈		
greatest brilliancy	1194 Apr 02 j 11:54	18°♊21'05	-1.7m	evening set	1199 Jul 10 j 04:38	8°♈29'31		
min. Earth dist.	1194 Apr 08 j 20:54	15°♊58'16	0.58013 AU		1199 Aug 13 j 01:31	0°♉		
direct	1194 May 12 j 11:14	8°♊54'17		max. Earth dist.	1199 Aug 15 j 08:25	1°♉27'41	2.66703 AU	
desc. node	1194 May 21 j 17:49	9°♊27'09						
	1194 Jul 17 j 08:31	0°♋		conjunction	1199 Aug 24 j 21:48	7°♉35'07	1°03'12	
	1194 Sep 03 j 21:25	0°♌		minimum elong	1199 Aug 24 j 22:38	7°♉36'27	1°03'11	
	1194 Oct 15 j 15:31	0°♍			1199 Sep 28 j 12:00	0°♎		
	1194 Nov 23 j 22:50	0°♎		morning rise	1199 Oct 08 j 10:25	6°♎31'15		
	1195 Jan 01 j 16:16	0°♏			1199 Nov 12 j 15:49	0°♐		
	1195 Feb 10 j 00:44	0°♑			1199 Dec 26 j 10:29	0°♒		
asc. node	1195 Mar 21 j 03:55	28°♑47'51		desc. node	1200 Jan 11 j 15:21	11°♒19'54		
	1195 Mar 22 j 20:00	0°♒			1200 Feb 06 j 23:32	0°♈		
evening set	1195 Apr 16 j 12:46	17°♒31'15			1200 Mar 19 j 15:13	0°♊		
	1195 May 04 j 12:58	0°♋			1200 Apr 30 j 04:59	0°♌		
					1200 Jun 12 j 16:57	0°♍		
conjunction	1195 Jun 09 j 13:17	24°♋17'36	0°44'31		1200 Aug 06 j 06:05	0°♎		
minimum elong	1195 Jun 09 j 11:44	24°♋15'01	0°44'30	retrograde	1200 Sep 08 j 18:56	7°♎15'30		
	1195 Jun 18 j 04:25	0°☿		min. Earth dist.	1200 Oct 06 j 23:22	1°♎48'45	0.46194 AU	
max. Earth dist.	1195 Jun 29 j 12:01	7°☿25'19	2.61908 AU		1200 Oct 12 j 03:41	30°♎♑		
morning rise	1195 Jul 28 j 18:52	26°☿21'49		opposition	1200 Oct 15 j 02:50	28°♑57'04	-1°26'34	
	1195 Aug 03 j 11:15	0°♈		greatest brilliancy	1200 Oct 14 j 17:03	29°♑05'41	-2.4m	
	1195 Sep 19 j 23:42	0°♉		asc. node	1200 Nov 10 j 01:02	22°♑32'17		
	1195 Nov 07 j 16:26	0°♊		direct	1200 Nov 16 j 20:45	22°♑13'15		
	1195 Dec 28 j 14:37	0°♋			1200 Dec 24 j 16:24	0°♌		
	1196 Feb 25 j 11:07	0°♌			1201 Feb 24 j 20:50	0°♍		
desc. node	1196 Apr 07 j 17:25	12°♌33'16			1201 Apr 17 j 20:44	0°☿		
retrograde	1196 Apr 18 j 09:20	13°♌13'26			1201 Jun 06 j 13:28	0°♈		
opposition	1196 May 21 j 13:29	6°♌53'42	-2°23'04		1201 Jul 24 j 17:58	0°♉		
greatest brilliancy	1196 May 22 j 06:29	6°♌39'52	-2.4m	evening set	1201 Aug 15 j 09:45	13°♉49'56		
min. Earth dist.	1196 May 29 j 19:37	4°♌13'02	0.45263 AU	max. Earth dist.	1201 Sep 07 j 23:51	29°♉11'34	2.61026 AU	
	1196 Jun 16 j 01:51	30°♌♍			1201 Sep 09 j 05:16	0°♎		
direct	1196 Jun 26 j 22:06	29°♌10'45						
	1196 Jul 07 j 19:13	0°♏		conjunction	1201 Sep 30 j 17:00	14°♎18'43	0°33'22	
	1196 Sep 13 j 11:01	0°♐		minimum elong	1201 Sep 30 j 18:04	14°♎20'31	0°33'21	

	1201 Oct 23 j 17:46	0°♌			1207 Feb 05 j 11:37	30°♊	
morning rise	1201 Nov 17 j 01:29	16°♌58'41		opposition	1207 Feb 10 j 03:13	28°♊10'30	4°25'58
desc. node	1201 Nov 28 j 14:14	25°♌10'40		greatest brilliancy	1207 Feb 10 j 09:05	28°♊04'41	-1.3m
	1201 Dec 05 j 07:31	0°♏		min. Earth dist.	1207 Feb 11 j 21:59	27°♊28'10	0.67368 AU
	1202 Jan 15 j 05:06	0°♎		direct	1207 Mar 23 j 09:53	18°♊12'21	
	1202 Feb 23 j 21:47	0°♍			1207 May 12 j 01:35	0°♐	
	1202 Apr 04 j 02:10	0°♋			1207 Jul 09 j 09:35	0°♏	
	1202 May 13 j 17:26	0°♑		desc. node	1207 Jul 21 j 11:30	7°♏18'18	
	1202 Jun 24 j 06:47	0°♉			1207 Aug 25 j 13:02	0°♌	
	1202 Aug 09 j 22:27	0°♈			1207 Oct 07 j 01:34	0°♏	
asc. node	1202 Sep 27 j 23:46	22°♈38'22			1207 Nov 15 j 21:09	0°♎	
retrograde	1202 Oct 23 j 12:44	26°♈43'50			1207 Dec 24 j 05:47	0°♍	
min. Earth dist.	1202 Nov 26 j 01:59	19°♈13'20	0.58691 AU	evening set	1208 Jan 18 j 01:25	19°♍36'41	
opposition	1202 Dec 01 j 23:18	16°♈54'16	2°43'49		1208 Jan 31 j 05:43	0°♋	
greatest brilliancy	1202 Dec 01 j 08:17	17°♈09'03	-1.7m		1208 Mar 09 j 20:09	0°♑	
direct	1203 Jan 08 j 00:00	8°♈23'34					
	1203 Mar 20 j 16:53	0°♌		conjunction	1208 Mar 25 j 10:20	11°♑50'49	-0°34'15
	1203 May 16 j 01:50	0°♊		minimum elong	1208 Mar 25 j 12:55	11°♑55'41	0°34'13
	1203 Jul 05 j 12:10	0°♐			1208 Apr 18 j 20:18	0°♉	
	1203 Aug 21 j 16:19	0°♏		max. Earth dist.	1208 May 12 j 17:29	17°♉15'17	2.46383 AU
evening set	1203 Sep 24 j 12:44	22°♏41'42		asc. node	1208 May 19 j 20:01	22°♉17'30	
	1203 Oct 05 j 02:42	0°♌		morning rise	1208 May 27 j 12:55	27°♉42'05	
max. Earth dist.	1203 Oct 09 j 17:24	3°♌12'58	2.50533 AU		1208 May 30 j 20:01	0°♈	
desc. node	1203 Oct 16 j 12:40	7°♌59'39			1208 Jul 14 j 03:05	0°♌	
					1208 Aug 29 j 23:49	0°♊	
conjunction	1203 Nov 14 j 05:02	28°♌35'35	-0°17'36		1208 Oct 19 j 09:00	0°♐	
minimum elong	1203 Nov 14 j 04:09	28°♌33'58	0°17'35		1208 Dec 18 j 05:53	0°♏	
	1203 Nov 16 j 03:13	0°♏		retrograde	1209 Feb 06 j 22:53	12°♏05'08	
	1203 Dec 26 j 05:46	0°♎		opposition	1209 Mar 17 j 03:41	3°♏29'14	3°06'35
morning rise	1204 Jan 09 j 10:21	10°♎52'42		greatest brilliancy	1209 Mar 17 j 19:06	3°♏14'28	-1.5m
	1204 Feb 03 j 02:04	0°♍		min. Earth dist.	1209 Mar 22 j 17:55	1°♏20'46	0.61890 AU
	1204 Mar 12 j 11:02	0°♋			1209 Mar 26 j 08:41	30°♐♐	
	1204 Apr 20 j 05:46	0°♑		direct	1209 Apr 27 j 08:06	23°♐33'51	
	1204 May 30 j 09:25	0°♉			1209 May 31 j 11:48	0°♏	
	1204 Jul 12 j 02:27	0°♈		desc. node	1209 Jun 07 j 09:57	2°♏32'32	
asc. node	1204 Aug 14 j 22:38	21°♈51'05			1209 Jul 30 j 15:04	0°♌	
	1204 Aug 28 j 12:48	0°♌			1209 Sep 13 j 20:37	0°♏	
	1204 Nov 01 j 02:22	0°♊			1209 Oct 24 j 15:06	0°♎	
retrograde	1204 Nov 27 j 20:30	4°♊08'31			1209 Dec 02 j 10:55	0°♍	
	1204 Dec 22 j 17:57	30°♐♐			1210 Jan 09 j 19:44	0°♋	
min. Earth dist.	1205 Jan 04 j 23:25	25°♐05'07	0.66247 AU		1210 Feb 17 j 20:03	0°♑	
opposition	1205 Jan 07 j 02:05	24°♐14'24	4°21'20	evening set	1210 Mar 25 j 18:24	26°♑42'16	
greatest brilliancy	1205 Jan 06 j 17:21	24°♐23'09	-1.4m		1210 Mar 30 j 07:12	0°♉	
direct	1205 Feb 15 j 21:47	14°♐45'05		asc. node	1210 Apr 06 j 19:13	5°♉24'51	
	1205 Apr 15 j 09:20	0°♊			1210 May 11 j 16:51	0°♈	
	1205 Jun 12 j 17:27	0°♐					
	1205 Aug 01 j 01:03	0°♏		conjunction	1210 May 22 j 10:12	7°♈21'48	0°27'16
desc. node	1205 Sep 02 j 11:46	21°♏23'46		minimum elong	1210 May 22 j 08:51	7°♈19'31	0°27'15
	1205 Sep 15 j 00:59	0°♌		max. Earth dist.	1210 Jun 18 j 18:34	25°♈46'47	2.58446 AU
	1205 Oct 26 j 23:21	0°♏			1210 Jun 25 j 03:24	0°♌	
evening set	1205 Nov 12 j 07:09	12°♏09'33		morning rise	1210 Jul 13 j 09:55	11°♌58'29	
	1205 Dec 05 j 17:16	0°♎			1210 Aug 10 j 10:15	0°♊	
max. Earth dist.	1205 Dec 15 j 00:50	7°♎12'20	2.38137 AU		1210 Sep 27 j 08:17	0°♐	
					1210 Nov 16 j 07:43	0°♏	
conjunction	1206 Jan 12 j 10:57	29°♎27'03	-1°03'15		1211 Jan 10 j 07:36	0°♌	
minimum elong	1206 Jan 12 j 09:39	29°♎24'29	1°03'14	retrograde	1211 Mar 26 j 12:39	23°♌18'36	
	1206 Jan 13 j 03:41	0°♍		desc. node	1211 Apr 25 j 08:21	17°♌56'27	
	1206 Feb 20 j 04:33	0°♋		opposition	1211 Apr 30 j 13:09	16°♌10'12	-0°15'36
morning rise	1206 Mar 23 j 07:19	24°♋17'00		greatest brilliancy	1211 Nov 03 j 04:58	25°♎52'25	0.2m
	1206 Mar 30 j 17:29	0°♑		min. Earth dist.	1211 May 08 j 22:57	13°♌14'05	0.50542 AU
	1206 May 09 j 14:32	0°♉		direct	1211 Jun 08 j 03:26	7°♌24'29	
	1206 Jun 20 j 13:49	0°♈			1211 Aug 13 j 07:18	0°♏	
asc. node	1206 Jul 02 j 21:56	8°♈28'38			1211 Sep 28 j 16:08	0°♎	
	1206 Aug 04 j 09:44	0°♌			1211 Nov 08 j 17:25	0°♍	
	1206 Sep 22 j 15:21	0°♊			1211 Dec 18 j 11:54	0°♋	
	1206 Nov 23 j 21:48	0°♐			1212 Jan 27 j 16:05	0°♑	
retrograde	1207 Jan 01 j 08:25	7°♐37'08		asc. node	1212 Feb 22 j 18:56	19°♑01'02	

	1212 Mar 09 j 04:16	0°♄			1217 Jan 23 j 03:04	0°♄		
	1212 Apr 21 j 11:16	0°♂			1217 Mar 04 j 09:26	0°♂		
evening set	1212 May 15 j 05:19	15°♂56'59			1217 Apr 13 j 04:14	0°♄		
	1212 Jun 05 j 12:36	0°♄			1217 May 23 j 14:05	0°♄		
					1217 Jul 05 j 17:20	0°♄		
conjunction	1212 Jul 04 j 02:54	18°♄33'45	1°02'19		1217 Aug 28 j 05:31	0°♂		
minimum elong	1212 Jul 04 j 01:52	18°♄32'05	1°02'19	retrograde	1217 Oct 07 j 15:03	9°♂44'50		
max. Earth dist.	1212 Jul 13 j 20:44	24°♄49'36	2.65664 AU	asc. node	1217 Oct 14 j 16:16	9°♂23'11		
	1212 Jul 21 j 22:34	0°♂		min. Earth dist.	1217 Nov 08 j 01:53	3°♂00'19	0.54174 AU	
morning rise	1212 Aug 19 j 11:28	18°♂10'59		opposition	1217 Nov 15 j 05:57	0°♂15'24	1°29'50	
	1212 Sep 07 j 02:42	0°♄		greatest brilliancy	1217 Nov 14 j 19:31	0°♂25'25	-2.0m	
	1212 Oct 24 j 14:22	0°♄			1217 Nov 15 j 22:04	30°♄♄		
	1212 Dec 11 j 10:00	0°♂		direct	1217 Dec 20 j 18:46	22°♄19'35		
	1213 Jan 29 j 08:45	0°♄			1218 Jan 28 j 01:43	0°♂		
desc. node	1213 Mar 12 j 07:56	24°♄05'57			1218 Apr 01 j 22:14	0°♄		
	1213 Mar 23 j 11:47	0°♄			1218 May 24 j 13:56	0°♂		
retrograde	1213 Jun 03 j 07:25	23°♄03'57			1218 Jul 12 j 21:23	0°♄		
opposition	1213 Jul 03 j 17:39	17°♄58'06	-6°03'51		1218 Aug 28 j 17:05	0°♄		
greatest brilliancy	1213 Jul 04 j 14:11	17°♄44'02	-2.8m	evening set	1218 Sep 08 j 04:38	6°♄56'08		
min. Earth dist.	1213 Jul 07 j 23:51	16°♄48'11	0.38653 AU	max. Earth dist.	1218 Sep 25 j 21:11	18°♄50'21	2.55140 AU	
direct	1213 Aug 04 j 06:27	12°♄22'32			1218 Oct 12 j 03:17	0°♂		
	1213 Sep 29 j 16:46	0°♂						
	1213 Nov 18 j 00:27	0°♄		conjunction	1218 Oct 26 j 13:55	10°♂06'14	0°04'05	
	1214 Jan 01 j 15:07	0°♄		minimum elong	1218 Oct 26 j 14:06	10°♂06'32	0°04'05	
asc. node	1214 Jan 09 j 17:22	5°♄29'49		behind sun begin	1218 Oct 25 j 17:37	9°♂30'26		
	1214 Feb 14 j 23:17	0°♄		behind sun end	1218 Oct 27 j 10:35	10°♂42'41		
	1214 Apr 01 j 05:03	0°♂		desc. node	1218 Nov 02 j 05:14	14°♂48'18		
	1214 May 17 j 13:25	0°♄			1218 Nov 23 j 07:56	0°♄		
evening set	1214 Jun 25 j 10:53	24°♄47'34		morning rise	1218 Dec 17 j 08:30	17°♄42'58		
	1214 Jul 03 j 15:42	0°♂			1219 Jan 02 j 16:37	0°♄		
max. Earth dist.	1214 Aug 06 j 07:08	21°♂22'38	2.67479 AU		1219 Feb 10 j 19:23	0°♂		
					1219 Mar 21 j 09:58	0°♄		
conjunction	1214 Aug 10 j 17:35	24°♂12'12	1°08'05		1219 Apr 29 j 09:52	0°♄		
minimum elong	1214 Aug 10 j 17:59	24°♂12'50	1°08'05		1219 Jun 08 j 20:53	0°♄		
	1214 Aug 19 j 19:40	0°♄			1219 Jul 22 j 08:19	0°♂		
morning rise	1214 Sep 24 j 04:14	22°♄42'51		asc. node	1219 Sep 01 j 14:41	25°♂05'32		
	1214 Oct 05 j 09:51	0°♄			1219 Sep 10 j 18:21	0°♄		
	1214 Nov 20 j 00:55	0°♂		retrograde	1219 Nov 15 j 05:41	20°♄33'33		
	1215 Jan 03 j 15:08	0°♄		min. Earth dist.	1219 Dec 21 j 17:14	12°♄02'40	0.64034 AU	
desc. node	1215 Jan 28 j 07:14	16°♄51'53		opposition	1219 Dec 25 j 07:58	10°♄35'58	3°56'36	
	1215 Feb 16 j 08:44	0°♄		greatest brilliancy	1219 Dec 24 j 18:52	10°♄49'04	-1.5m	
	1215 Mar 31 j 16:30	0°♂		direct	1220 Feb 02 j 05:21	1°♄25'22		
	1215 May 14 j 23:55	0°♄			1220 Apr 28 j 14:39	0°♂		
	1215 Jul 05 j 11:11	0°♄			1220 Jun 21 j 09:43	0°♄		
retrograde	1215 Aug 18 j 15:30	11°♄50'38			1220 Aug 08 j 15:21	0°♄		
min. Earth dist.	1215 Sep 14 j 07:04	7°♄08'52	0.41331 AU	desc. node	1220 Sep 19 j 04:22	27°♄48'34		
opposition	1215 Sep 21 j 13:41	4°♄51'30	-3°55'47		1220 Sep 22 j 08:16	0°♂		
greatest brilliancy	1215 Sep 20 j 16:11	5°♄08'32	-2.7m	evening set	1220 Oct 22 j 02:41	21°♂07'05		
	1215 Oct 10 j 16:38	30°♄♄			1220 Nov 03 j 06:37	0°♄		
direct	1215 Oct 22 j 12:53	29°♄03'51		max. Earth dist.	1220 Nov 07 j 13:41	3°♄10'06	2.42654 AU	
	1215 Nov 03 j 13:23	0°♄			1220 Dec 13 j 03:09	0°♄		
asc. node	1215 Nov 27 j 16:16	6°♄27'37						
	1216 Jan 16 j 02:13	0°♄		conjunction	1220 Dec 17 j 09:46	3°♄17'18	-0°50'16	
	1216 Mar 07 j 20:07	0°♂		minimum elong	1220 Dec 17 j 07:27	3°♄12'51	0°50'15	
	1216 Apr 26 j 06:07	0°♄			1221 Jan 20 j 16:35	0°♂		
	1216 Jun 13 j 21:25	0°♂		morning rise	1221 Feb 20 j 20:03	24°♄30'56		
evening set	1216 Jul 31 j 20:46	0°♄08'25			1221 Feb 27 j 19:28	0°♄		
	1216 Jul 31 j 15:28	0°♄			1221 Apr 07 j 09:13	0°♄		
max. Earth dist.	1216 Aug 29 j 00:53	18°♄14'01	2.63855 AU		1221 May 17 j 06:47	0°♄		
					1221 Jun 28 j 08:58	0°♂		
conjunction	1216 Sep 15 j 13:45	29°♄41'15	0°47'47	asc. node	1221 Jul 19 j 12:57	14°♂19'30		
minimum elong	1216 Sep 15 j 14:56	29°♄43'12	0°47'46		1221 Aug 12 j 18:17	0°♄		
	1216 Sep 16 j 01:09	0°♄			1221 Oct 03 j 07:11	0°♂		
	1216 Oct 30 j 18:12	0°♂		retrograde	1221 Dec 18 j 20:53	24°♄56'20		
morning rise	1216 Oct 31 j 07:28	0°♂22'42		opposition	1222 Jan 27 j 23:10	15°♂16'18	4°33'36	
	1216 Dec 12 j 17:12	0°♄		greatest brilliancy	1222 Jan 27 j 23:14	15°♂16'14	-1.3m	
desc. node	1216 Dec 15 j 05:47	1°♄47'58		min. Earth dist.	1222 Jan 28 j 05:29	15°♂10'01	0.67723 AU	

direct	1222 Mar 09 j 20:02	5°♌26'19		1227 Apr 29 j 18:15	0°♊	
	1222 May 26 j 14:43	0°♍		1227 Jun 13 j 12:09	0°♋	
	1222 Jul 18 j 12:48	0°♊				
desc. node	1222 Aug 07 j 03:04	12°♊23'40	conjunction	1227 Jun 19 j 04:25	3°♋43'42	0°52'23
	1222 Sep 02 j 13:16	0°♌	minimum elong	1227 Jun 19 j 02:57	3°♋41'18	0°52'22
	1222 Oct 14 j 18:15	0°♌	max. Earth dist.	1227 Jul 05 j 08:43	14°♋16'14	2.63479 AU
	1222 Nov 23 j 12:14	0°♌		1227 Jul 29 j 19:03	0°♌	
evening set	1222 Dec 21 j 01:01	21°♌28'10	morning rise	1227 Aug 06 j 05:15	4°♌44'31	
	1222 Dec 31 j 20:51	0°♍		1227 Sep 15 j 03:16	0°♍	
	1223 Feb 07 j 20:13	0°♋		1227 Nov 02 j 07:06	0°♊	
				1227 Dec 21 j 18:48	0°♌	
conjunction	1223 Feb 26 j 09:40	14°♋32'47 -0°55'39		1228 Feb 13 j 04:46	0°♌	
minimum elong	1223 Feb 26 j 12:35	14°♋38'27 0°55'37	desc. node	1228 Mar 28 j 23:11	19°♌53'03	
	1223 Mar 18 j 08:56	0°♍	retrograde	1228 May 03 j 15:26	26°♌37'12	
max. Earth dist.	1223 Apr 18 j 11:31	23°♍30'15 2.40957 AU	opposition	1228 Jun 04 j 19:52	20°♌46'09 -3°46'28	
	1223 Apr 27 j 06:29	0°♋	greatest brilliancy	1228 Jun 05 j 19:10	20°♌28'10 -2.6m	
morning rise	1223 May 05 j 11:57	6°♋01'08	min. Earth dist.	1228 Jun 12 j 06:47	18°♌29'01 0.42539 AU	
asc. node	1223 Jun 06 j 13:04	28°♋52'08	direct	1228 Jul 09 j 12:53	13°♌47'44	
	1223 Jun 08 j 03:59	0°♊		1228 Aug 31 j 18:54	0°♌	
	1223 Jul 22 j 12:41	0°♋		1228 Oct 19 j 07:47	0°♍	
	1223 Sep 07 j 22:23	0°♌		1228 Dec 01 j 00:32	0°♋	
	1223 Oct 30 j 11:45	0°♍		1229 Jan 11 j 23:37	0°♍	
retrograde	1224 Jan 23 j 15:06	28°♍27'19	asc. node	1229 Jan 26 j 09:48	10°♍12'20	
opposition	1224 Mar 02 j 14:27	19°♍28'26 3°48'31		1229 Feb 23 j 18:54	0°♋	
greatest brilliancy	1224 Mar 03 j 03:41	19°♍15'33 -1.4m		1229 Apr 09 j 00:49	0°♊	
min. Earth dist.	1224 Mar 06 j 17:50	17°♍51'43 0.64799 AU		1229 May 24 j 18:02	0°♋	
direct	1224 Apr 13 j 01:08	9°♍27'00	evening set	1229 Jun 10 j 03:40	10°♋34'49	
	1224 Jun 19 j 13:56	0°♊		1229 Jul 10 j 12:01	0°♌	
desc. node	1224 Jun 24 j 01:35	2°♊18'17				
	1224 Aug 10 j 00:17	0°♌	conjunction	1229 Jul 27 j 10:25	10°♌47'15 1°09'05	
	1224 Sep 22 j 17:22	0°♌	minimum elong	1229 Jul 27 j 10:15	10°♌47'01 1°09'05	
	1224 Nov 01 j 23:14	0°♌	max. Earth dist.	1229 Jul 28 j 05:01	11°♌16'52 2.67427 AU	
	1224 Dec 10 j 12:51	0°♍		1229 Aug 26 j 14:30	0°♍	
	1225 Jan 17 j 16:44	0°♋	morning rise	1229 Sep 10 j 06:02	9°♍20'52	
	1225 Feb 25 j 11:49	0°♍		1229 Oct 12 j 10:41	0°♊	
evening set	1225 Mar 01 j 03:35	2°♍46'45		1229 Nov 27 j 16:54	0°♌	
	1225 Apr 06 j 17:19	0°♋		1230 Jan 12 j 10:33	0°♌	
asc. node	1225 Apr 23 j 12:21	12°♋07'28	desc. node	1230 Feb 13 j 23:19	21°♋25'05	
				1230 Feb 27 j 01:13	0°♌	
conjunction	1225 May 02 j 00:55	18°♋11'11 0°05'23		1230 Apr 14 j 16:42	0°♍	
minimum elong	1225 May 02 j 00:34	18°♋10'34 0°05'23		1230 Jun 07 j 03:07	0°♋	
behind sun begin	1225 May 01 j 01:17	17°♋29'21	retrograde	1230 Jul 22 j 22:25	12°♋03'54	
behind sun end	1225 May 02 j 23:51	18°♋51'43	min. Earth dist.	1230 Aug 19 j 05:20	7°♋36'06 0.38028 AU	
	1225 May 18 j 21:30	0°♊	opposition	1230 Aug 23 j 06:20	6°♋29'01 -6°13'24	
max. Earth dist.	1225 Jun 06 j 09:42	12°♊42'30 2.54201 AU	greatest brilliancy	1230 Aug 22 j 13:45	6°♋40'30 -2.9m	
morning rise	1225 Jun 26 j 16:14	26°♊20'09	direct	1230 Sep 21 j 19:12	1°♋27'24	
	1225 Jul 02 j 04:48	0°♋		1230 Dec 10 j 01:35	0°♍	
	1225 Aug 17 j 13:46	0°♌	asc. node	1230 Dec 14 j 08:36	2°♍25'38	
	1225 Oct 05 j 02:37	0°♍		1231 Jan 29 j 07:30	0°♋	
	1225 Nov 26 j 03:05	0°♊		1231 Mar 18 j 06:54	0°♊	
	1226 Jan 30 j 18:47	0°♌		1231 May 05 j 03:00	0°♋	
retrograde	1226 Mar 06 j 03:00	6°♌05'13		1231 Jun 22 j 00:09	0°♌	
	1226 Apr 06 j 20:18	30°♌♊	evening set	1231 Jul 18 j 11:06	16°♌40'00	
opposition	1226 Apr 11 j 15:26	28°♊16'32 1°22'14		1231 Aug 08 j 11:01	0°♍	
greatest brilliancy	1226 Apr 12 j 01:43	28°♊07'05 -1.9m	max. Earth dist.	1231 Aug 20 j 16:48	7°♍49'51 2.65927 AU	
min. Earth dist.	1226 Apr 19 j 06:11	25°♊29'07 0.55544 AU				
desc. node	1226 May 12 j 00:29	19°♊28'30	conjunction	1231 Sep 02 j 00:57	15°♍46'46 0°58'36	
direct	1226 May 21 j 16:32	18°♊50'44	minimum elong	1231 Sep 02 j 01:58	15°♍48'25 0°58'36	
	1226 Jul 05 j 15:08	0°♌		1231 Sep 23 j 21:17	0°♊	
	1226 Aug 27 j 19:48	0°♌	morning rise	1231 Oct 16 j 20:00	15°♊10'13	
	1226 Oct 09 j 14:46	0°♌		1231 Nov 07 j 21:12	0°♌	
	1226 Nov 18 j 08:52	0°♍		1231 Dec 21 j 08:29	0°♌	
	1226 Dec 27 j 08:41	0°♋	desc. node	1232 Jan 01 j 22:33	8°♌10'09	
	1227 Feb 04 j 22:10	0°♍		1232 Feb 01 j 10:33	0°♌	
asc. node	1227 Mar 11 j 10:36	25°♍21'05		1232 Mar 13 j 11:57	0°♍	
	1227 Mar 17 j 21:48	0°♋		1232 Apr 23 j 05:17	0°♋	
evening set	1227 Apr 27 j 19:58	28°♋40'44		1232 Jun 04 j 02:08	0°♍	

	1232 Jul 21 j 05:36	0°♄		desc. node	1237 Aug 23 j 18:50	18°♑10'55	
retrograde	1232 Sep 19 j 22:42	20°♄17'26			1237 Sep 10 j 04:30	0°♍	
min. Earth dist.	1232 Oct 19 j 05:44	14°♄23'10	0.49093 AU		1237 Oct 22 j 05:31	0°♊	
opposition	1232 Oct 27 j 07:01	11°♄26'34	-0°12'42	evening set	1237 Nov 25 j 10:38	25°♊44'33	
greatest brilliancy	1229 Sep 27 j 18:18	20°♍33'42	1.8m		1237 Nov 30 j 23:32	0°♎	
asc. node	1232 Oct 31 j 07:06	10°♄00'26			1238 Jan 08 j 09:13	0°♐	
direct	1232 Nov 30 j 01:57	4°♄14'25					
	1233 Feb 16 j 09:58	0°♈		conjunction	1238 Jan 28 j 07:45	15°♐45'05	-1°04'53
	1233 Apr 11 j 21:47	0°♌		minimum elong	1238 Jan 28 j 08:03	15°♐45'40	1°04'53
	1233 Jun 01 j 11:05	0°♏		max. Earth dist.	1238 Feb 08 j 16:45	24°♐44'01	2.37115 AU
	1233 Jul 20 j 00:10	0°♍			1238 Feb 15 j 09:05	0°♋	
evening set	1233 Aug 23 j 21:13	22°♍19'38			1238 Mar 25 j 21:09	0°♌	
	1233 Sep 04 j 14:32	0°♑		morning rise	1238 Apr 08 j 20:15	10°♌39'23	
max. Earth dist.	1233 Sep 14 j 05:02	6°♑21'22	2.59138 AU		1238 May 04 j 17:28	0°♄	
					1238 Jun 15 j 14:41	0°♈	
conjunction	1233 Oct 09 j 17:32	23°♑33'39	0°23'29	asc. node	1238 Jun 23 j 04:24	5°♈14'22	
minimum elong	1233 Oct 09 j 18:23	23°♑35'07	0°23'28		1238 Jul 30 j 04:19	0°♌	
	1233 Oct 19 j 02:30	0°♍			1238 Sep 16 j 12:06	0°♏	
desc. node	1233 Nov 18 j 20:53	21°♍36'17			1238 Nov 12 j 07:07	0°♍	
morning rise	1233 Nov 27 j 08:12	27°♍40'46		retrograde	1239 Jan 09 j 07:03	15°♍25'16	
	1233 Nov 30 j 13:23	0°♊		opposition	1239 Feb 17 j 20:12	6°♍07'39	4°15'47
	1234 Jan 10 j 06:28	0°♎		greatest brilliancy	1239 Feb 18 j 05:04	5°♍58'56	-1.3m
	1234 Feb 18 j 18:04	0°♐		min. Earth dist.	1239 Feb 20 j 11:34	5°♍05'17	0.66727 AU
	1234 Mar 29 j 16:46	0°♋			1239 Mar 06 j 13:50	30°♋♏	
	1234 May 08 j 00:48	0°♌		direct	1239 Mar 31 j 05:56	26°♏06'56	
	1234 Jun 18 j 00:47	0°♄			1239 Apr 26 j 20:31	0°♍	
	1234 Aug 01 j 23:30	0°♈			1239 Jul 02 j 18:51	0°♑	
asc. node	1234 Sep 18 j 06:58	25°♈24'04		desc. node	1239 Jul 11 j 17:19	5°♑11'00	
	1234 Sep 30 j 02:43	0°♌			1239 Aug 20 j 01:59	0°♍	
retrograde	1234 Nov 01 j 01:47	6°♌04'16			1239 Oct 01 j 23:42	0°♊	
	1234 Nov 30 j 23:19	30°♋♈			1239 Nov 10 j 22:47	0°♎	
min. Earth dist.	1234 Dec 05 j 17:06	28°♈10'47	0.60833 AU		1239 Dec 19 j 09:07	0°♐	
opposition	1234 Dec 10 j 19:25	26°♈09'25	3°16'14		1240 Jan 26 j 09:57	0°♋	
greatest brilliancy	1234 Dec 10 j 04:03	26°♈24'41	-1.6m	evening set	1240 Feb 02 j 23:09	5°♋55'21	
direct	1235 Jan 17 j 13:31	17°♈22'44			1240 Mar 05 j 01:08	0°♌	
	1235 Mar 10 j 10:19	0°♌					
	1235 May 09 j 23:14	0°♏		conjunction	1240 Apr 08 j 21:12	26°♌10'32	-0°19'47
	1235 Jun 30 j 09:12	0°♍		minimum elong	1240 Apr 08 j 22:42	26°♌13'18	0°19'46
	1235 Aug 16 j 21:58	0°♑			1240 Apr 14 j 02:08	0°♄	
	1235 Sep 30 j 10:53	0°♍		asc. node	1240 May 10 j 03:58	18°♄48'23	
evening set	1235 Oct 04 j 09:44	2°♍45'08		max. Earth dist.	1240 May 22 j 19:16	27°♄42'29	2.49293 AU
desc. node	1235 Oct 06 j 19:33	4°♍26'14			1240 May 26 j 02:06	0°♈	
max. Earth dist.	1235 Oct 18 j 20:51	12°♍57'07	2.47770 AU	morning rise	1240 Jun 08 j 03:15	9°♈00'40	
	1235 Nov 11 j 10:58	0°♊			1240 Jul 09 j 07:50	0°♌	
					1240 Aug 24 j 22:11	0°♏	
conjunction	1235 Nov 25 j 18:31	10°♊35'08	-0°30'12		1240 Oct 13 j 10:23	0°♍	
minimum elong	1235 Nov 25 j 16:57	10°♊32'14	0°30'10		1240 Dec 08 j 03:14	0°♑	
	1235 Dec 21 j 11:30	0°♎		retrograde	1241 Feb 16 j 07:40	20°♑44'39	
morning rise	1236 Jan 24 j 01:50	25°♎58'42		opposition	1241 Mar 25 j 23:55	12°♑23'56	2°34'11
	1236 Jan 29 j 05:25	0°♐		greatest brilliancy	1241 Mar 26 j 14:57	12°♑09'43	-1.6m
	1236 Mar 07 j 12:00	0°♋		min. Earth dist.	1241 Apr 01 j 09:09	9°♑59'08	0.59846 AU
greatest brilliancy	1236 Mar 19 j 05:12	9°♋09'11	1.2m	direct	1241 May 05 j 21:33	2°♑35'43	
	1236 Apr 15 j 04:19	0°♌		desc. node	1241 May 28 j 15:52	5°♑41'13	
	1236 May 25 j 04:39	0°♄			1241 Jul 22 j 20:17	0°♍	
	1236 Jul 06 j 13:41	0°♈			1241 Sep 07 j 18:18	0°♊	
asc. node	1236 Aug 05 j 06:21	19°♈36'46			1241 Oct 19 j 01:45	0°♎	
	1236 Aug 21 j 22:58	0°♌			1241 Nov 27 j 04:00	0°♐	
	1236 Oct 17 j 12:23	0°♏			1242 Jan 04 j 17:05	0°♋	
retrograde	1236 Dec 05 j 13:00	12°♏06'54			1242 Feb 12 j 20:56	0°♌	
opposition	1237 Jan 14 j 18:32	2°♏16'56	4°29'29		1242 Mar 25 j 11:25	0°♄	
min. Earth dist.	1237 Jan 13 j 12:22	2°♏47'06	0.67045 AU	asc. node	1242 Mar 28 j 03:10	1°♄55'02	
greatest brilliancy	1237 Jan 14 j 12:47	2°♏22'41	-1.3m	evening set	1242 Apr 07 j 10:05	9°♄17'18	
	1237 Jan 20 j 13:08	30°♋♌			1242 May 06 j 23:37	0°♈	
direct	1237 Feb 24 j 00:29	22°♌39'08					
	1237 Apr 03 j 06:58	0°♏		conjunction	1242 Jun 01 j 23:10	17°♈40'15	0°37'48
	1237 Jun 06 j 11:35	0°♍		minimum elong	1242 Jun 01 j 21:37	17°♈37'40	0°37'46
	1237 Jul 26 j 20:18	0°♑			1242 Jun 20 j 11:37	0°♌	

max. Earth dist.	1242 Jun 25 j 02:44	3°☾03'07	2.60460 AU	greatest brilliancy	1247 Oct 05 j 07:32	19°♄38'21	-2.5m
morning rise	1242 Jul 22 j 07:51	20°☾46'03		direct	1247 Nov 06 j 21:05	13°♄05'58	
	1242 Aug 05 j 17:11	0°♌		asc. node	1247 Nov 18 j 00:20	13°♄53'33	
	1242 Sep 22 j 08:42	0°♍			1248 Jan 04 j 23:33	0°♄	
	1242 Nov 10 j 12:35	0°♎			1248 Mar 01 j 00:56	0°♎	
	1243 Jan 01 j 19:22	0°♏			1248 Apr 20 j 18:11	0°☾	
	1243 Mar 10 j 02:55	0°♐			1248 Jun 08 j 23:00	0°♌	
retrograde	1243 Apr 08 j 12:42	4°♐37'29			1248 Jul 26 j 23:13	0°♍	
desc. node	1243 Apr 15 j 15:49	4°♐18'20		evening set	1248 Aug 09 j 04:00	8°♍24'30	
	1243 May 06 j 03:00	30°♏♎		max. Earth dist.	1248 Sep 03 j 18:47	24°♍58'29	2.62396 AU
opposition	1243 May 12 j 12:52	27°♎55'04	-1°24'47		1248 Sep 11 j 10:43	0°♎	
greatest brilliancy	1243 May 12 j 23:29	27°♎46'06	-2.3m				
min. Earth dist.	1243 May 21 j 00:06	25°♎03'53	0.47610 AU	conjunction	1248 Sep 24 j 03:01	8°♎23'34	0°39'50
direct	1243 Jun 18 j 23:34	19°♎40'48		minimum elong	1248 Sep 24 j 04:10	8°♎25'29	0°39'50
	1243 Jul 30 j 14:40	0°♐			1248 Oct 26 j 02:08	0°♎	
	1243 Sep 20 j 15:37	0°♑		morning rise	1248 Nov 09 j 15:40	10°♎04'16	
	1243 Nov 02 j 01:56	0°♒		desc. node	1248 Dec 05 j 12:41	28°♎19'32	
	1243 Dec 12 j 12:54	0°♓			1248 Dec 07 j 20:53	0°♐	
	1244 Jan 22 j 03:57	0°♑			1249 Jan 18 j 00:18	0°♑	
asc. node	1244 Feb 13 j 00:48	15°♑48'46			1249 Feb 26 j 23:07	0°♒	
	1244 Mar 04 j 00:34	0°♒			1249 Apr 07 j 09:14	0°♓	
	1244 Apr 16 j 13:54	0°♎			1249 May 17 j 06:42	0°♑	
evening set	1244 May 25 j 00:25	25°♎32'58			1249 Jun 28 j 07:34	0°♒	
	1244 May 31 j 19:46	0°☾			1249 Aug 15 j 16:29	0°♎	
				asc. node	1249 Oct 04 j 23:11	19°♎10'08	
conjunction	1244 Jul 12 j 19:21	27°☾06'46	1°06'02	retrograde	1249 Oct 16 j 21:54	20°♎08'11	
minimum elong	1244 Jul 12 j 18:37	27°☾05'35	1°06'01	min. Earth dist.	1249 Nov 18 j 12:54	12°♎57'25	0.56766 AU
	1244 Jul 17 j 07:39	0°♌		greatest brilliancy	1249 Nov 24 j 10:34	10°♎39'25	-1.8m
max. Earth dist.	1244 Jul 19 j 05:16	1°♌12'54	2.66535 AU	opposition	1249 Nov 25 j 00:27	10°♎25'53	2°15'53
morning rise	1244 Aug 27 j 11:02	26°♌12'06		direct	1249 Dec 31 j 10:05	2°♎09'35	
	1244 Sep 02 j 10:30	0°♍			1250 Mar 25 j 09:40	0°☾	
	1244 Oct 19 j 15:34	0°♎			1250 May 18 j 23:36	0°♌	
	1244 Dec 05 j 19:15	0°♎			1250 Jul 07 j 22:31	0°♍	
	1245 Jan 22 j 07:10	0°♐			1250 Aug 24 j 00:10	0°♎	
desc. node	1245 Mar 02 j 14:59	24°♐09'35		evening set	1250 Sep 17 j 08:54	16°♎13'25	
	1245 Mar 12 j 11:14	0°♑		max. Earth dist.	1250 Oct 03 j 10:52	27°♎12'33	2.52673 AU
	1245 May 08 j 22:14	0°♒			1250 Oct 07 j 11:42	0°♎	
retrograde	1245 Jun 21 j 13:03	10°♒19'08		desc. node	1250 Oct 23 j 11:22	11°♎11'47	
opposition	1245 Jul 21 j 15:44	5°♒21'35	-6°47'43				
greatest brilliancy	1245 Jul 22 j 00:42	5°♒15'37	-2.9m	conjunction	1250 Nov 05 j 21:46	20°♎46'43	-0°08'15
min. Earth dist.	1245 Jul 23 j 02:20	4°♒58'35	0.37533 AU	minimum elong	1250 Nov 05 j 21:23	20°♎46'01	0°08'15
direct	1245 Aug 20 j 22:18	0°♒16'25		behind sun begin	1250 Nov 05 j 02:23	20°♎11'54	
	1245 Nov 07 j 14:36	0°♓		behind sun end	1250 Nov 06 j 16:23	21°♎20'11	
	1245 Dec 25 j 05:52	0°♑			1250 Nov 18 j 15:19	0°♐	
asc. node	1245 Dec 30 j 23:59	3°♑45'45			1250 Dec 28 j 21:22	0°♑	
	1246 Feb 08 j 21:34	0°♒		morning rise	1250 Dec 29 j 22:44	0°♑48'11	
	1246 Mar 26 j 20:39	0°♎			1251 Feb 05 j 20:56	0°♒	
	1246 May 12 j 15:17	0°☾			1251 Mar 16 j 08:15	0°♓	
	1246 Jun 28 j 23:09	0°♌			1251 Apr 24 j 04:21	0°♑	
evening set	1246 Jul 03 j 23:10	3°♌09'50			1251 Jun 03 j 09:35	0°♒	
max. Earth dist.	1246 Aug 11 j 13:13	27°♌39'34	2.67164 AU		1251 Jul 16 j 07:13	0°♎	
	1246 Aug 15 j 05:14	0°♍		asc. node	1251 Aug 22 j 21:40	23°♎49'13	
					1251 Sep 02 j 13:50	0°☾	
conjunction	1246 Aug 18 j 20:42	2°♍19'44	1°05'41	retrograde	1251 Nov 23 j 02:52	28°☾53'53	
minimum elong	1246 Aug 18 j 21:22	2°♍20'48	1°05'41	min. Earth dist.	1251 Dec 30 j 12:57	20°☾04'10	0.65380 AU
	1246 Sep 30 j 17:47	0°♎		opposition	1252 Jan 02 j 07:22	18°☾57'39	4°12'52
morning rise	1246 Oct 02 j 06:49	1°♎00'24		greatest brilliancy	1252 Jan 01 j 20:31	19°☾08'32	-1.4m
	1246 Nov 15 j 02:53	0°♎		direct	1252 Feb 10 j 17:36	9°☾35'58	
	1246 Dec 29 j 06:22	0°♐			1252 Apr 20 j 13:38	0°♌	
desc. node	1247 Jan 18 j 13:48	14°♐04'19			1252 Jun 15 j 17:47	0°♍	
	1247 Feb 10 j 07:15	0°♑			1252 Aug 03 j 15:10	0°♎	
	1247 Mar 24 j 14:34	0°♒		desc. node	1252 Sep 09 j 10:14	24°♎24'23	
	1247 May 06 j 02:13	0°♓			1252 Sep 17 j 13:19	0°♎	
	1247 Jun 20 j 14:28	0°♑			1252 Oct 29 j 13:00	0°♐	
retrograde	1247 Aug 31 j 14:20	27°♑10'52		evening set	1252 Nov 02 j 19:02	3°♐08'12	
min. Earth dist.	1247 Sep 27 j 23:50	22°♑06'09	0.43908 AU	max. Earth dist.	1252 Nov 25 j 07:02	20°♐00'23	2.39968 AU
opposition	1247 Oct 05 j 23:24	19°♑24'58	-2°28'31		1252 Dec 08 j 08:54	0°♑	

conjunction	1252 Dec 31 j 16:53	18°♊05'47	-0°58'58		1258 Jan 16 j 09:40	0°♍	
minimum elong	1252 Dec 31 j 14:51	18°♊01'49	0°58'58	retrograde	1258 Mar 17 j 08:05	16°♍02'39	
	1253 Jan 15 j 21:08	0°♌		opposition	1258 Apr 22 j 01:18	8°♍35'12	0°29'23
	1253 Feb 22 j 22:54	0°♋		greatest brilliancy	1258 Apr 22 j 05:30	8°♍31'27	-2.0m
morning rise	1253 Mar 09 j 23:49	11°♋47'28		min. Earth dist.	1258 Apr 30 j 03:58	5°♍40'55	0.52850 AU
	1253 Apr 02 j 11:32	0°♎		desc. node	1258 May 02 j 06:54	4°♍56'58	
	1253 May 12 j 07:41	0°♏			1258 May 22 j 16:06	30°♌♎	
	1253 Jun 23 j 06:26	0°♐		direct	1258 May 31 j 09:07	29°♎28'48	
asc. node	1253 Jul 09 j 21:16	11°♐22'05			1258 Jun 09 j 04:38	0°♍	
	1253 Aug 07 j 05:14	0°♑			1258 Aug 19 j 15:13	0°♎	
	1253 Sep 26 j 02:54	0°♒			1258 Oct 03 j 02:53	0°♏	
	1253 Dec 04 j 22:29	0°♓			1258 Nov 12 j 12:31	0°♌	
retrograde	1253 Dec 26 j 13:28	2°♓40'17			1258 Dec 21 j 21:32	0°♋	
	1254 Jan 15 j 20:07	30°♌♒			1259 Jan 30 j 17:37	0°♎	
opposition	1254 Feb 04 j 12:29	23°♒07'19	4°30'27	asc. node	1259 Mar 01 j 18:09	21°♎58'45	
greatest brilliancy	1254 Feb 04 j 15:51	23°♒03'59	-1.3m		1259 Mar 12 j 22:36	0°♏	
min. Earth dist.	1254 Feb 05 j 15:20	22°♒40'40	0.67654 AU		1259 Apr 24 j 23:20	0°♐	
direct	1254 Mar 17 j 15:33	13°♒12'10		evening set	1259 May 08 j 12:35	9°♐11'07	
	1254 May 18 j 00:45	0°♓			1259 Jun 08 j 20:03	0°♑	
	1254 Jul 12 j 17:06	0°♎					
desc. node	1254 Jul 28 j 09:59	9°♎41'35		conjunction	1259 Jun 28 j 10:25	12°♑47'22	0°58'42
	1254 Aug 28 j 09:41	0°♍		minimum elong	1259 Jun 28 j 09:10	12°♑45'21	0°58'41
	1254 Oct 09 j 20:11	0°♎		max. Earth dist.	1259 Jul 11 j 01:24	20°♑56'53	2.64789 AU
	1254 Nov 18 j 15:43	0°♏			1259 Jul 25 j 03:40	0°♒	
	1254 Dec 27 j 00:38	0°♌		morning rise	1259 Aug 14 j 11:07	12°♒57'13	
evening set	1255 Jan 05 j 16:23	7°♌37'44			1259 Sep 10 j 09:01	0°♓	
	1255 Feb 03 j 00:06	0°♋			1259 Oct 28 j 02:54	0°♎	
	1255 Mar 13 j 12:59	0°♎			1259 Dec 15 j 13:40	0°♍	
					1260 Feb 04 j 00:48	0°♎	
conjunction	1255 Mar 14 j 12:57	0°♎45'55	-0°44'26	desc. node	1260 Mar 19 j 06:30	23°♎28'51	
minimum elong	1255 Mar 14 j 16:02	0°♎51'50	0°44'23		1260 Apr 02 j 21:15	0°♏	
	1255 Apr 22 j 10:55	0°♏		retrograde	1260 May 20 j 08:52	11°♏21'23	
max. Earth dist.	1255 May 04 j 09:58	8°♏43'32	2.43953 AU	opposition	1260 Jun 20 j 12:31	5°♏58'12	-5°09'02
morning rise	1255 May 18 j 23:42	19°♏11'06		greatest brilliancy	1260 Jun 21 j 13:20	5°♏40'20	-2.7m
asc. node	1255 May 27 j 19:35	25°♏25'39		min. Earth dist.	1260 Jun 26 j 13:35	4°♏14'15	0.40149 AU
	1255 Jun 03 j 08:18	0°♐			1260 Jul 17 j 23:32	30°♌♎	
	1255 Jul 17 j 14:22	0°♑		direct	1260 Jul 23 j 10:14	29°♎47'41	
	1255 Sep 02 j 14:19	0°♒			1260 Jul 28 j 21:45	0°♏	
	1255 Oct 23 j 16:01	0°♓			1260 Oct 09 j 03:43	0°♌	
	1255 Dec 27 j 07:40	0°♎			1260 Nov 23 j 12:20	0°♋	
retrograde	1256 Feb 01 j 05:18	6°♎36'25			1261 Jan 05 j 16:44	0°♎	
	1256 Mar 05 j 01:43	30°♌♓		asc. node	1261 Jan 16 j 16:55	7°♎38'43	
opposition	1256 Mar 10 j 19:24	27°♓49'43	3°25'49		1261 Feb 18 j 05:22	0°♏	
greatest brilliancy	1256 Mar 11 j 10:08	27°♓35'29	-1.5m		1261 Apr 03 j 22:36	0°♐	
min. Earth dist.	1256 Mar 15 j 18:38	25°♓54'40	0.63320 AU		1261 May 19 j 22:56	0°♑	
direct	1256 Apr 21 j 03:56	17°♓50'30		evening set	1261 Jun 19 j 00:03	19°♑15'20	
	1256 Jun 09 j 07:12	0°♎			1261 Jul 05 j 20:45	0°♒	
desc. node	1256 Jun 14 j 08:33	2°♎14'39		max. Earth dist.	1261 Aug 02 j 11:42	17°♒34'13	2.67558 AU
	1256 Aug 03 j 15:36	0°♍					
	1256 Sep 17 j 05:12	0°♎		conjunction	1261 Aug 04 j 16:01	18°♒57'28	1°08'58
	1256 Oct 27 j 18:27	0°♏		minimum elong	1261 Aug 04 j 16:11	18°♒57'44	1°08'58
	1256 Dec 05 j 11:34	0°♌			1261 Aug 21 j 23:57	0°♓	
	1257 Jan 12 j 17:44	0°♋		morning rise	1261 Sep 18 j 05:17	17°♓25'55	
	1257 Feb 20 j 14:39	0°♎			1261 Oct 07 j 16:51	0°♎	
evening set	1257 Mar 15 j 10:38	17°♎09'14			1261 Nov 22 j 14:41	0°♍	
	1257 Apr 01 j 22:01	0°♏			1262 Jan 06 j 16:31	0°♎	
asc. node	1257 Apr 13 j 18:28	8°♏34'00		desc. node	1262 Feb 04 j 05:49	19°♎14'04	
					1262 Feb 20 j 03:39	0°♏	
conjunction	1257 May 13 j 22:49	29°♏51'21	0°18'31		1262 Apr 05 j 15:13	0°♌	
minimum elong	1257 May 13 j 21:47	29°♏49'34	0°18'30		1262 May 22 j 06:38	0°♋	
	1257 May 14 j 03:49	0°♐		retrograde	1262 Aug 07 j 15:04	29°♋43'03	
max. Earth dist.	1257 Jun 13 j 17:20	20°♐50'01	2.56644 AU	min. Earth dist.	1262 Sep 03 j 04:22	25°♋13'08	0.39566 AU
	1257 Jun 27 j 11:32	0°♑		greatest brilliancy	1262 Sep 08 j 09:44	23°♋40'19	-2.8m
morning rise	1257 Jul 06 j 10:29	5°♑54'08		opposition	1262 Sep 09 j 07:46	23°♋23'53	-5°01'43
	1257 Aug 12 j 17:56	0°♒		direct	1262 Oct 09 j 13:17	18°♋00'10	
	1257 Sep 29 j 20:48	0°♓			1262 Nov 25 j 19:46	0°♎	
	1257 Nov 19 j 13:04	0°♎		asc. node	1262 Dec 04 j 15:39	4°♎02'19	

	1263 Jan 21 j 12:30	0°♄	conjunction	1267 Dec 08 j 03:50	23°♄26'46 -0°42'09
	1263 Mar 12 j 07:08	0°♂	minimum elong	1267 Dec 08 j 01:43	23°♄22'46 0°42'07
	1263 Apr 29 j 22:21	0°♂		1267 Dec 16 j 18:00	0°♄
	1263 Jun 17 j 05:00	0°♂		1268 Jan 24 j 09:38	0°♄
evening set	1263 Jul 26 j 17:24	24°♂50'45	morning rise	1268 Feb 08 j 21:16	12°♄09'35
	1263 Aug 03 j 20:06	0°♄		1268 Mar 02 j 13:58	0°♄
max. Earth dist.	1263 Aug 26 j 03:59	14°♄18'33 2.64879 AU		1268 Apr 10 j 04:03	0°♄
				1268 May 20 j 01:24	0°♄
conjunction	1263 Sep 10 j 07:39	24°♄08'25 0°52'44		1268 Jul 01 j 04:31	0°♂
minimum elong	1263 Sep 10 j 08:47	24°♄10'16 0°52'44	asc. node	1268 Jul 26 j 11:59	17°♂00'05
	1263 Sep 19 j 06:35	0°♄		1268 Aug 15 j 20:00	0°♂
morning rise	1263 Oct 25 j 13:30	24°♄10'34		1268 Oct 07 j 18:04	0°♂
	1263 Nov 03 j 03:22	0°♄	retrograde	1268 Dec 13 j 05:01	19°♂58'54
	1263 Dec 16 j 08:25	0°♄	opposition	1269 Jan 22 j 09:15	10°♂14'06 4°33'18
desc. node	1263 Dec 23 j 04:03	4°♄50'06	greatest brilliancy	1269 Jan 22 j 06:44	10°♂16'37 -1.3m
	1264 Jan 27 j 01:43	0°♄	min. Earth dist.	1269 Jan 21 j 23:41	10°♂23'40 0.67555 AU
	1264 Mar 07 j 16:15	0°♄	direct	1269 Mar 03 j 23:54	0°♂28'56
	1264 Apr 16 j 19:52	0°♄		1269 May 30 j 15:40	0°♄
	1264 May 27 j 17:13	0°♄		1269 Jul 21 j 10:39	0°♄
	1264 Jul 10 j 23:42	0°♄	desc. node	1269 Aug 14 j 01:30	15°♄07'17
	1264 Sep 12 j 14:12	0°♂		1269 Sep 05 j 05:25	0°♄
retrograde	1264 Sep 30 j 06:49	2°♂08'11		1269 Oct 17 j 10:05	0°♄
	1264 Oct 17 j 09:28	30°♄		1269 Nov 26 j 05:02	0°♄
asc. node	1264 Oct 21 j 15:27	28°♄50'29	evening set	1269 Dec 09 j 11:58	10°♄18'00
min. Earth dist.	1264 Oct 30 j 17:52	25°♄45'59 0.51946 AU		1270 Jan 03 j 14:28	0°♄
opposition	1264 Nov 07 j 09:17	22°♄53'31 0°50'11		1270 Feb 10 j 13:56	0°♄
greatest brilliancy	1264 Nov 07 j 02:56	22°♄59'29 -2.1m			
direct	1264 Dec 12 j 04:46	15°♄15'59	conjunction	1270 Feb 13 j 15:58	2°♄25'41 -1°01'29
	1265 Feb 05 j 21:43	0°♂	minimum elong	1270 Feb 13 j 18:00	2°♄29'41 1°01'29
	1265 Apr 05 j 13:17	0°♂		1270 Mar 21 j 01:35	0°♄
	1265 May 27 j 05:22	0°♂	max. Earth dist.	1270 Mar 30 j 09:26	7°♄08'25 2.38774 AU
	1265 Jul 15 j 05:10	0°♄	morning rise	1270 Apr 24 j 08:26	25°♄54'36
	1265 Aug 30 j 23:26	0°♄		1270 Apr 29 j 21:14	0°♄
evening set	1265 Sep 01 j 12:46	1°♄01'23		1270 Jun 10 j 16:59	0°♂
max. Earth dist.	1265 Sep 20 j 17:32	13°♄48'14 2.57005 AU	asc. node	1270 Jun 13 j 11:52	1°♂56'26
	1265 Oct 14 j 11:25	0°♄		1270 Jul 25 j 01:34	0°♂
				1270 Sep 10 j 17:23	0°♂
conjunction	1265 Oct 19 j 03:32	3°♄14'20 0°12'36		1270 Nov 03 j 12:50	0°♄
minimum elong	1265 Oct 19 j 04:02	3°♄15'14 0°12'36	retrograde	1271 Jan 17 j 09:43	23°♄18'45
behind sun begin	1265 Oct 18 j 14:56	2°♄52'28	opposition	1271 Feb 25 j 16:10	14°♄11'04 4°01'16
behind sun end	1265 Oct 19 j 17:09	3°♄38'00	greatest brilliancy	1271 Feb 26 j 03:39	13°♄59'49 -1.4m
desc. node	1265 Nov 09 j 03:37	18°♄01'03	min. Earth dist.	1271 Mar 01 j 03:53	12°♄49'08 0.65792 AU
	1265 Nov 25 j 19:47	0°♄	direct	1271 Apr 08 j 03:29	4°♄09'02
morning rise	1265 Dec 08 j 08:50	9°♄09'25		1271 Jun 25 j 09:10	0°♄
	1266 Jan 05 j 08:47	0°♄	desc. node	1271 Jul 01 j 23:54	3°♄36'16
	1266 Feb 13 j 15:39	0°♄		1271 Aug 14 j 08:46	0°♄
	1266 Mar 24 j 09:40	0°♄		1271 Sep 26 j 18:20	0°♄
	1266 May 02 j 12:11	0°♄		1271 Nov 05 j 21:57	0°♄
	1266 Jun 12 j 02:46	0°♄		1271 Dec 14 j 10:17	0°♄
	1266 Jul 26 j 00:16	0°♂		1272 Jan 21 j 12:35	0°♄
asc. node	1266 Sep 08 j 14:09	26°♂04'49	evening set	1272 Feb 18 j 13:14	21°♄49'00
	1266 Sep 16 j 12:57	0°♂		1272 Feb 29 j 05:09	0°♄
retrograde	1266 Nov 09 j 07:20	14°♂57'31		1272 Apr 09 j 07:25	0°♄
min. Earth dist.	1266 Dec 14 j 23:47	6°♂42'24 0.62726 AU			
opposition	1266 Dec 19 j 06:06	5°♂00'20 3°41'56	conjunction	1272 Apr 22 j 08:56	9°♄28'58 -0°05'11
greatest brilliancy	1266 Dec 18 j 15:38	5°♂14'47 -1.5m	minimum elong	1272 Apr 22 j 09:16	9°♄29'35 0°05'10
	1267 Jan 01 j 20:07	30°♄	behind sun begin	1272 Apr 21 j 08:59	8°♄45'49
direct	1267 Jan 26 j 15:35	25°♂59'38	behind sun end	1272 Apr 23 j 09:34	10°♄13'17
	1267 Feb 22 j 20:18	0°♂	asc. node	1272 Apr 30 j 11:40	15°♄18'02
	1267 May 03 j 08:58	0°♂		1272 May 21 j 08:23	0°♂
	1267 Jun 25 j 02:35	0°♄	max. Earth dist.	1272 May 31 j 11:00	6°♂59'42 2.52075 AU
	1267 Aug 12 j 02:02	0°♄	morning rise	1272 Jun 18 j 23:03	19°♂35'06
	1267 Sep 25 j 18:31	0°♄		1272 Jul 04 j 13:19	0°♂
desc. node	1267 Sep 27 j 02:57	0°♄56'17		1272 Aug 19 j 22:58	0°♂
evening set	1267 Oct 14 j 18:03	13°♄20'24		1272 Oct 07 j 19:15	0°♄
max. Earth dist.	1267 Oct 29 j 13:17	23°♄59'19 2.44941 AU		1272 Nov 29 j 23:56	0°♄
	1267 Nov 06 j 18:55	0°♄	retrograde	1273 Feb 26 j 04:56	29°♄46'12

opposition	1273 Apr 04 j 06:34	21° <u>♌</u> 42'19	1°55'09		1278 Aug 10 j 15:29	0° <u>♏</u>	
greatest brilliancy	1273 Apr 04 j 19:33	21° <u>♌</u> 30'13	-1.8m	max. Earth dist.	1278 Aug 16 j 20:40	3° <u>♏</u> 58'16	2.66591 AU
min. Earth dist.	1273 Apr 11 j 08:49	19° <u>♌</u> 03'48	0.57575 AU				
direct	1273 May 14 j 18:31	12° <u>♌</u> 04'30		conjunction	1278 Aug 26 j 22:55	10° <u>♏</u> 26'38	1°02'00
desc. node	1273 May 18 j 22:52	12° <u>♌</u> 11'24		minimum elong	1278 Aug 26 j 23:48	10° <u>♏</u> 28'04	1°02'00
	1273 Jul 13 j 10:11	0° <u>♍</u>			1278 Sep 26 j 03:10	0° <u>♌</u>	
	1273 Sep 01 j 04:51	0° <u>♊</u>		morning rise	1278 Oct 10 j 12:25	9° <u>♌</u> 26'53	
	1273 Oct 13 j 07:09	0° <u>♊</u>			1278 Nov 10 j 07:48	0° <u>♍</u>	
	1273 Nov 21 j 17:36	0° <u>♋</u>			1278 Dec 24 j 02:28	0° <u>♊</u>	
	1273 Dec 30 j 11:55	0° <u>♋</u>		desc. node	1279 Jan 08 j 20:57	11° <u>♊</u> 02'07	
	1274 Feb 07 j 19:57	0° <u>♌</u>			1279 Feb 04 j 14:25	0° <u>♊</u>	
asc. node	1274 Mar 18 j 09:43	28° <u>♌</u> 25'42			1279 Mar 18 j 03:32	0° <u>♋</u>	
	1274 Mar 20 j 14:02	0° <u>♌</u>			1279 Apr 28 j 11:57	0° <u>♋</u>	
evening set	1274 Apr 19 j 07:11	21° <u>♌</u> 03'06			1279 Jun 10 j 10:26	0° <u>♌</u>	
	1274 May 02 j 05:30	0° <u>♍</u>			1279 Jul 31 j 18:24	0° <u>♌</u>	
				retrograde	1279 Sep 12 j 13:12	11° <u>♌</u> 13'45	
conjunction	1274 Jun 11 j 23:31	27° <u>♍</u> 28'13	0°46'49	min. Earth dist.	1279 Oct 10 j 21:42	5° <u>♌</u> 42'48	0.46749 AU
minimum elong	1274 Jun 11 j 21:58	27° <u>♍</u> 25'39	0°46'48	opposition	1279 Oct 19 j 02:54	2° <u>♌</u> 48'26	-1°06'46
	1274 Jun 15 j 19:25	0° <u>♍</u>		greatest brilliancy	1279 Oct 18 j 19:15	2° <u>♌</u> 55'13	-2.4m
max. Earth dist.	1274 Jul 01 j 04:23	10° <u>♍</u> 04'56	2.62233 AU		1279 Oct 27 j 12:01	30° <u>♌</u> 00'	
morning rise	1274 Jul 30 j 23:08	29° <u>♍</u> 19'05		asc. node	1279 Nov 08 j 06:28	27° <u>♌</u> 05'57	
	1274 Aug 01 j 00:42	0° <u>♎</u>		direct	1279 Nov 21 j 01:58	25° <u>♌</u> 59'02	
	1274 Sep 17 j 11:08	0° <u>♏</u>			1279 Dec 17 j 08:59	0° <u>♌</u>	
	1274 Nov 04 j 23:42	0° <u>♌</u>			1280 Feb 22 j 10:11	0° <u>♍</u>	
	1274 Dec 25 j 11:02	0° <u>♍</u>			1280 Apr 15 j 00:34	0° <u>♍</u>	
	1275 Feb 20 j 07:46	0° <u>♊</u>			1280 Jun 03 j 22:52	0° <u>♎</u>	
desc. node	1275 Apr 05 j 21:41	15° <u>♊</u> 23'06			1280 Jul 22 j 06:40	0° <u>♏</u>	
retrograde	1275 Apr 22 j 16:33	17° <u>♊</u> 01'03		evening set	1280 Aug 17 j 12:43	16° <u>♏</u> 45'27	
opposition	1275 May 25 j 17:11	10° <u>♊</u> 46'23	-2°42'56		1280 Sep 06 j 20:31	0° <u>♌</u>	
greatest brilliancy	1275 May 26 j 12:02	10° <u>♊</u> 31'10	-2.4m	max. Earth dist.	1280 Sep 09 j 18:17	1° <u>♌</u> 54'51	2.60698 AU
min. Earth dist.	1275 Jun 02 j 20:03	8° <u>♊</u> 09'55	0.44748 AU				
direct	1275 Jun 30 j 17:27	3° <u>♊</u> 11'23		conjunction	1280 Oct 02 j 21:32	17° <u>♌</u> 20'57	0°30'46
	1275 Sep 10 j 18:54	0° <u>♊</u>		minimum elong	1280 Oct 02 j 22:34	17° <u>♌</u> 22'40	0°30'46
	1275 Oct 25 j 17:51	0° <u>♋</u>			1280 Oct 21 j 11:06	0° <u>♍</u>	
	1275 Dec 06 j 05:36	0° <u>♋</u>		morning rise	1280 Nov 19 j 11:00	20° <u>♍</u> 15'29	
	1276 Jan 16 j 11:45	0° <u>♌</u>		desc. node	1280 Nov 25 j 19:26	24° <u>♍</u> 46'41	
asc. node	1276 Feb 03 j 08:41	12° <u>♌</u> 48'04			1280 Dec 03 j 02:22	0° <u>♊</u>	
	1276 Feb 27 j 18:41	0° <u>♌</u>			1281 Jan 13 j 00:46	0° <u>♊</u>	
	1276 Apr 11 j 15:36	0° <u>♍</u>			1281 Feb 21 j 17:28	0° <u>♋</u>	
	1276 May 27 j 02:26	0° <u>♍</u>			1281 Apr 01 j 20:49	0° <u>♋</u>	
evening set	1276 Jun 03 j 09:02	4° <u>♍</u> 43'15			1281 May 11 j 09:21	0° <u>♌</u>	
	1276 Jul 12 j 17:01	0° <u>♎</u>			1281 Jun 21 j 16:28	0° <u>♌</u>	
					1281 Aug 06 j 14:03	0° <u>♍</u>	
conjunction	1276 Jul 21 j 06:15	5° <u>♎</u> 27'29	1°08'18	asc. node	1281 Sep 25 j 05:45	24° <u>♍</u> 14'56	
minimum elong	1276 Jul 21 j 05:51	5° <u>♎</u> 26'51	1°08'18	retrograde	1281 Oct 25 j 18:24	29° <u>♍</u> 54'20	
max. Earth dist.	1276 Jul 24 j 12:45	7° <u>♎</u> 32'35	2.67129 AU	min. Earth dist.	1281 Nov 28 j 12:33	22° <u>♍</u> 18'59	0.59116 AU
	1276 Aug 28 j 19:22	0° <u>♏</u>		opposition	1281 Dec 04 j 05:46	20° <u>♍</u> 03'40	2°53'51
morning rise	1276 Sep 04 j 09:19	4° <u>♏</u> 11'27		greatest brilliancy	1281 Dec 03 j 14:21	20° <u>♍</u> 18'54	-1.7m
	1276 Oct 14 j 19:11	0° <u>♌</u>		direct	1282 Jan 10 j 09:44	11° <u>♍</u> 29'35	
	1276 Nov 30 j 10:18	0° <u>♍</u>			1282 Mar 16 j 13:48	0° <u>♍</u>	
	1277 Jan 15 j 20:20	0° <u>♊</u>			1282 May 13 j 02:45	0° <u>♎</u>	
desc. node	1277 Feb 20 j 21:26	23° <u>♊</u> 08'35			1282 Jul 02 j 21:41	0° <u>♏</u>	
	1277 Mar 03 j 16:51	0° <u>♊</u>			1282 Aug 19 j 06:37	0° <u>♌</u>	
	1277 Apr 22 j 03:28	0° <u>♋</u>		evening set	1282 Sep 26 j 21:21	25° <u>♌</u> 53'16	
retrograde	1277 Jul 09 j 14:46	28° <u>♋</u> 34'43			1282 Oct 02 j 20:15	0° <u>♍</u>	
min. Earth dist.	1277 Aug 07 j 09:51	23° <u>♋</u> 53'03	0.37409 AU	max. Earth dist.	1282 Oct 11 j 18:52	6° <u>♍</u> 14'13	2.50019 AU
opposition	1277 Aug 09 j 03:51	23° <u>♋</u> 24'59	-6°46'21	desc. node	1282 Oct 13 j 18:08	7° <u>♍</u> 37'14	
greatest brilliancy	1277 Aug 08 j 21:18	23° <u>♋</u> 29'22	-2.9m		1282 Nov 13 j 22:58	0° <u>♊</u>	
direct	1277 Sep 07 j 15:51	18° <u>♋</u> 30'13					
	1277 Oct 22 j 22:24	0° <u>♋</u>		conjunction	1282 Nov 16 j 20:39	2° <u>♊</u> 07'31	-0°20'50
	1277 Dec 16 j 16:36	0° <u>♌</u>		minimum elong	1282 Nov 16 j 19:36	2° <u>♊</u> 05'36	0°20'50
asc. node	1277 Dec 21 j 08:03	2° <u>♌</u> 50'40			1282 Dec 24 j 02:50	0° <u>♊</u>	
	1278 Feb 02 j 10:07	0° <u>♌</u>		morning rise	1283 Jan 12 j 15:16	14° <u>♊</u> 58'41	
	1278 Mar 21 j 08:46	0° <u>♍</u>			1283 Jan 31 j 23:35	0° <u>♋</u>	
	1278 May 07 j 15:56	0° <u>♍</u>			1283 Mar 11 j 08:10	0° <u>♋</u>	
	1278 Jun 24 j 06:37	0° <u>♎</u>			1283 Apr 19 j 01:31	0° <u>♌</u>	
evening set	1278 Jul 12 j 07:07	11° <u>♎</u> 22'17			1283 May 29 j 02:27	0° <u>♌</u>	

	1283 Jul 10 j 14:19	0°♂		desc. node	1288 Jun 04 j 14:10	3°♂44'03	
asc. node	1283 Aug 13 j 05:32	21°♂55'16			1288 Jul 27 j 13:03	0°♂	
	1283 Aug 26 j 12:06	0°♂			1288 Sep 11 j 08:35	0°♂	
	1283 Oct 26 j 02:22	0°♂			1288 Oct 22 j 08:31	0°♂	
retrograde	1283 Nov 30 j 21:04	7°♂00'54			1288 Nov 30 j 06:46	0°♂	
	1284 Jan 02 j 20:06	30°♂			1289 Jan 07 j 16:24	0°♂	
min. Earth dist.	1284 Jan 08 j 04:23	27°♂53'46	0.66422 AU		1289 Feb 15 j 16:24	0°♂	
opposition	1284 Jan 10 j 02:21	27°♂07'42	4°24'14	evening set	1289 Mar 28 j 18:48	0°♂29'47	
greatest brilliancy	1284 Jan 09 j 18:14	27°♂15'51	-1.3m		1289 Mar 28 j 02:24	0°♂	
direct	1284 Feb 18 j 23:42	17°♂36'30		asc. node	1289 Apr 04 j 02:41	5°♂04'14	
	1284 Apr 10 j 16:56	0°♂			1289 May 09 j 10:21	0°♂	
	1284 Jun 09 j 18:14	0°♂					
	1284 Jul 29 j 12:23	0°♂		conjunction	1289 May 25 j 00:15	10°♂41'26	0°30'10
desc. node	1284 Aug 30 j 17:14	21°♂06'53		minimum elong	1289 May 24 j 22:49	10°♂39'00	0°30'10
	1284 Sep 12 j 17:44	0°♂		max. Earth dist.	1289 Jun 20 j 09:39	28°♂25'01	2.58843 AU
	1284 Oct 24 j 19:23	0°♂			1289 Jun 22 j 18:59	0°♂	
evening set	1284 Nov 15 j 05:09	15°♂57'32		morning rise	1289 Jul 15 j 15:42	14°♂59'01	
	1284 Dec 03 j 15:07	0°♂			1289 Aug 07 j 23:43	0°♂	
max. Earth dist.	1284 Dec 21 j 21:43	14°♂09'59	2.37774 AU		1289 Sep 24 j 18:42	0°♂	
	1285 Jan 11 j 02:11	0°♂			1289 Nov 13 j 11:25	0°♂	
					1290 Jan 06 j 12:27	0°♂	
conjunction	1285 Jan 15 j 21:52	3°♂47'58	-1°04'03	retrograde	1290 Mar 29 j 11:10	26°♂41'34	
minimum elong	1285 Jan 15 j 20:55	3°♂46'05	1°04'03	desc. node	1290 Apr 22 j 14:11	23°♂04'32	
	1285 Feb 18 j 02:41	0°♂		opposition	1290 May 03 j 06:19	19°♂37'54	-0°32'19
morning rise	1285 Mar 27 j 01:25	28°♂48'54		greatest brilliancy	1290 May 03 j 10:27	19°♂34'18	-2.2m
	1285 Mar 28 j 14:22	0°♂		min. Earth dist.	1290 May 11 j 15:58	16°♂42'34	0.49977 AU
	1285 May 07 j 09:21	0°♂		direct	1290 Jun 10 j 14:59	10°♂57'14	
	1285 Jun 18 j 05:36	0°♂			1290 Aug 09 j 06:59	0°♂	
asc. node	1285 Jun 30 j 03:58	8°♂13'54			1290 Sep 25 j 20:49	0°♂	
	1285 Aug 01 j 20:38	0°♂			1290 Nov 06 j 05:56	0°♂	
	1285 Sep 19 j 15:26	0°♂			1290 Dec 16 j 03:22	0°♂	
	1285 Nov 18 j 08:54	0°♂			1291 Jan 25 j 08:28	0°♂	
retrograde	1286 Jan 03 j 09:35	10°♂26'49		asc. node	1291 Feb 20 j 00:22	18°♂41'22	
opposition	1286 Feb 12 j 03:38	1°♂02'04	4°23'10		1291 Mar 07 j 20:30	0°♂	
greatest brilliancy	1286 Feb 12 j 10:10	0°♂55'36	-1.3m		1291 Apr 20 j 02:51	0°♂	
min. Earth dist.	1286 Feb 14 j 03:02	0°♂15'11	0.67268 AU	evening set	1291 May 18 j 16:28	19°♂09'29	
	1286 Feb 14 j 18:26	30°♂			1291 Jun 04 j 03:24	0°♂	
direct	1286 Mar 25 j 10:49	21°♂03'11					
	1286 May 06 j 19:00	0°♂		conjunction	1291 Jul 07 j 07:54	21°♂31'56	1°03'29
	1286 Jul 06 j 10:27	0°♂		minimum elong	1291 Jul 07 j 06:57	21°♂30'23	1°03'28
desc. node	1286 Jul 18 j 15:56	7°♂17'37		max. Earth dist.	1291 Jul 16 j 12:26	27°♂25'54	2.65863 AU
	1286 Aug 23 j 01:42	0°♂			1291 Jul 20 j 12:39	0°♂	
	1286 Oct 04 j 19:47	0°♂		morning rise	1291 Aug 22 j 12:28	21°♂01'28	
	1286 Nov 13 j 18:19	0°♂			1291 Sep 05 j 16:02	0°♂	
	1286 Dec 22 j 04:17	0°♂			1291 Oct 23 j 02:13	0°♂	
evening set	1287 Jan 21 j 13:54	24°♂00'51			1291 Dec 09 j 18:14	0°♂	
	1287 Jan 29 j 04:14	0°♂			1292 Jan 27 j 07:55	0°♂	
	1287 Mar 08 j 17:38	0°♂		desc. node	1292 Mar 09 j 13:38	24°♂42'41	
					1292 Mar 19 j 05:19	0°♂	
conjunction	1287 Mar 29 j 18:27	15°♂57'53	-0°30'49	retrograde	1292 Jun 07 j 06:40	27°♂31'46	
minimum elong	1287 Mar 29 j 20:49	16°♂02'19	0°30'46	opposition	1292 Jul 07 j 13:41	22°♂28'47	-6°16'55
	1287 Apr 17 j 15:56	0°♂		greatest brilliancy	1292 Jul 08 j 08:56	22°♂15'40	-2.8m
max. Earth dist.	1287 May 16 j 04:15	20°♂35'20	2.46930 AU	min. Earth dist.	1292 Jul 11 j 08:47	21°♂26'45	0.38363 AU
asc. node	1287 May 18 j 03:05	21°♂58'19		direct	1292 Aug 07 j 21:21	17°♂00'03	
	1287 May 29 j 13:18	0°♂			1292 Sep 24 j 04:30	0°♂	
morning rise	1287 May 31 j 08:19	1°♂14'56			1292 Nov 14 j 17:39	0°♂	
	1287 Jul 12 j 17:27	0°♂			1292 Dec 29 j 20:32	0°♂	
	1287 Aug 28 j 09:57	0°♂		asc. node	1293 Jan 06 j 23:11	5°♂28'31	
	1287 Oct 17 j 09:56	0°♂			1293 Feb 12 j 09:14	0°♂	
	1287 Dec 14 j 12:41	0°♂			1293 Mar 29 j 16:49	0°♂	
retrograde	1288 Feb 10 j 05:58	15°♂02'29			1293 May 15 j 02:00	0°♂	
opposition	1288 Mar 19 j 08:30	6°♂29'37	2°57'45	evening set	1293 Jun 27 j 15:36	27°♂44'36	
greatest brilliancy	1288 Mar 19 j 23:46	6°♂15'01	-1.6m		1293 Jul 01 j 04:57	0°♂	
min. Earth dist.	1288 Mar 25 j 03:04	4°♂17'18	0.61507 AU	max. Earth dist.	1293 Aug 07 j 17:07	23°♂49'24	2.67451 AU
	1288 Apr 06 j 15:09	30°♂					
direct	1288 Apr 29 j 12:03	26°♂35'12		conjunction	1293 Aug 12 j 19:42	27°♂04'40	1°07'31
	1288 May 23 j 16:06	0°♂		minimum elong	1293 Aug 12 j 20:10	27°♂05'24	1°07'31

	1293 Aug 17 j 09:40	0°♍		1298 Sep 07 j 02:35	0°♊	
morning rise	1293 Sep 26 j 05:36	25°♍35'49	retrograde	1298 Nov 17 j 08:07	23°♊30'59	
	1293 Oct 03 j 00:25	0°♊	min. Earth dist.	1298 Dec 23 j 23:57	14°♊55'52	0.64314 AU
	1293 Nov 17 j 15:28	0°♌	opposition	1298 Dec 27 j 10:08	13°♊33'34	4°02'01
	1294 Jan 01 j 04:34	0°♈	greatest brilliancy	1298 Dec 26 j 21:24	13°♊46'20	-1.4m
desc. node	1294 Jan 25 j 12:12	16°♈39'26	direct	1299 Feb 04 j 09:27	4°♊20'35	
	1294 Feb 13 j 19:34	0°♋		1299 Apr 26 j 00:58	0°♌	
	1294 Mar 28 j 22:09	0°♎		1299 Jun 19 j 14:49	0°♍	
	1294 May 11 j 17:20	0°♏		1299 Aug 07 j 03:37	0°♎	
	1294 Jun 29 j 22:13	0°♑	desc. node	1299 Sep 17 j 08:39	27°♎28'00	
retrograde	1294 Aug 21 j 15:45	16°♑10'00		1299 Sep 21 j 00:46	0°♌	
min. Earth dist.	1294 Sep 17 j 11:40	11°♑24'09 0.41779 AU	evening set	1299 Oct 25 j 19:56	24°♌42'06	
opposition	1294 Sep 24 j 22:07	9°♑01'30 -3°35'05		1299 Nov 02 j 01:56	0°♈	
greatest brilliancy	1294 Sep 24 j 01:37	9°♑17'57 -2.7m	max. Earth dist.	1299 Nov 12 j 09:22	7°♈37'00 2.42124 AU	
direct	1294 Oct 25 j 23:57	3°♑08'03		1299 Dec 12 j 00:13	0°♋	
asc. node	1294 Nov 24 j 23:36	8°♑22'37				
	1295 Jan 12 j 06:44	0°♌	conjunction	1299 Dec 21 j 14:33	7°♋23'21 -0°52'41	
	1295 Mar 05 j 21:25	0°♌	minimum elong	1299 Dec 21 j 12:16	7°♋18'55 0°52'39	
	1295 Apr 24 j 13:54	0°♊		1300 Jan 19 j 14:27	0°♎	
	1295 Jun 12 j 08:26	0°♌	morning rise	1300 Feb 25 j 15:07	29°♎08'41	
	1295 Jul 30 j 04:53	0°♍		1300 Feb 26 j 17:14	0°♏	
evening set	1295 Aug 03 j 23:48	3°♍02'38		1300 Apr 05 j 05:58	0°♑	
max. Earth dist.	1295 Aug 31 j 18:04	20°♍53'37 2.63613 AU		1300 May 15 j 01:26	0°♌	
	1295 Sep 14 j 16:38	0°♊		1300 Jun 26 j 00:05	0°♌	
			asc. node	1300 Jul 16 j 20:26	14°♌11'03	
conjunction	1295 Sep 18 j 17:14	2°♊38'55 0°45'40		1300 Aug 10 j 02:49	0°♊	
minimum elong	1295 Sep 18 j 18:25	2°♊40'51 0°45'40		1300 Sep 29 j 21:26	0°♌	
	1295 Oct 29 j 11:21	0°♌	retrograde	1300 Dec 20 j 20:53	27°♌44'38	
morning rise	1295 Nov 03 j 13:49	3°♌29'51	opposition	1301 Jan 29 j 22:33	18°♌06'03 4°33'00	
	1295 Dec 11 j 11:16	0°♈	greatest brilliancy	1301 Jan 29 j 23:21	18°♌05'15 -1.3m	
desc. node	1295 Dec 13 j 10:59	1°♈24'58	min. Earth dist.	1301 Jan 30 j 09:27	17°♌55'11 0.67734 AU	
	1296 Jan 21 j 21:16	0°♋	direct	1301 Mar 11 j 20:19	8°♌14'46	
	1296 Mar 02 j 02:52	0°♎		1301 May 22 j 22:36	0°♍	
	1296 Apr 10 j 19:48	0°♏		1301 Jul 15 j 19:29	0°♊	
	1296 May 21 j 01:29	0°♑	desc. node	1301 Aug 04 j 08:01	12°♊14'27	
	1296 Jul 02 j 18:07	0°♌		1301 Aug 31 j 03:53	0°♌	
	1296 Aug 23 j 00:50	0°♌		1301 Oct 12 j 12:57	0°♈	
retrograde	1296 Oct 10 j 00:22	13°♌07'06		1301 Nov 21 j 09:07	0°♋	
asc. node	1296 Oct 11 j 22:34	13°♌05'31	evening set	1301 Dec 24 j 13:54	25°♋54'12	
min. Earth dist.	1296 Nov 10 j 16:16	6°♌17'05 0.54689 AU		1301 Dec 29 j 18:35	0°♎	
opposition	1296 Nov 17 j 16:51	3°♌34'58 1°43'16		1302 Feb 05 j 17:48	0°♏	
greatest brilliancy	1296 Nov 17 j 05:12	3°♌46'12 -1.9m				
	1296 Nov 27 j 13:36	30°♏♋	conjunction	1302 Mar 02 j 03:49	19°♏07'21 -0°53'12	
direct	1296 Dec 23 j 10:13	25°♏34'44	minimum elong	1302 Mar 02 j 06:53	19°♏13'17 0°53'11	
	1297 Jan 20 j 14:07	0°♌		1302 Mar 16 j 05:31	0°♑	
	1297 Mar 29 j 14:32	0°♊	max. Earth dist.	1302 Apr 22 j 16:35	28°♑15'19 2.41540 AU	
	1297 May 21 j 19:15	0°♌		1302 Apr 25 j 01:21	0°♌	
	1297 Jul 10 j 08:18	0°♍	morning rise	1302 May 08 j 18:17	10°♌00'48	
	1297 Aug 26 j 07:39	0°♊	asc. node	1302 Jun 03 j 19:04	28°♌33'36	
evening set	1297 Sep 10 j 10:53	10°♊00'48		1302 Jun 05 j 20:29	0°♌	
max. Earth dist.	1297 Sep 27 j 19:29	21°♊43'30 2.54698 AU		1302 Jul 20 j 01:51	0°♊	
	1297 Oct 09 j 20:43	0°♌		1302 Sep 05 j 05:52	0°♌	
				1302 Oct 27 j 03:42	0°♍	
conjunction	1297 Oct 29 j 00:36	13°♌24'40 0°00'52		1303 Jan 10 j 15:35	0°♊	
minimum elong	1297 Oct 29 j 00:37	13°♌24'43 0°00'52	retrograde	1303 Jan 25 j 18:19	1°♊19'02	
behind sun begin	1297 Oct 28 j 03:36	12°♌47'34		1303 Feb 09 j 04:25	30°♏♍	
behind sun end	1297 Oct 29 j 21:38	14°♌01'54	opposition	1303 Mar 05 j 16:15	22°♍22'29 3°42'08	
desc. node	1297 Oct 30 j 09:59	14°♌23'46	greatest brilliancy	1303 Mar 06 j 05:47	22°♍09'19 -1.4m	
	1297 Nov 21 j 03:28	0°♈	min. Earth dist.	1303 Mar 09 j 23:59	20°♍41'39 0.64553 AU	
morning rise	1297 Dec 20 j 04:12	21°♈25'52	direct	1303 Apr 16 j 02:45	12°♍20'59	
	1297 Dec 31 j 13:27	0°♋		1303 Jun 16 j 16:02	0°♊	
	1298 Feb 08 j 16:34	0°♎	desc. node	1303 Jun 22 j 07:03	2°♊46'59	
	1298 Mar 19 j 06:33	0°♏		1303 Aug 08 j 07:39	0°♌	
	1298 Apr 27 j 04:40	0°♑		1303 Sep 21 j 09:21	0°♈	
	1298 Jun 06 j 12:06	0°♌		1303 Oct 31 j 19:01	0°♋	
	1298 Jul 19 j 16:08	0°♌		1303 Dec 09 j 10:07	0°♎	
asc. node	1298 Aug 29 j 20:43	25°♌26'40		1304 Jan 16 j 14:00	0°♏	

	1304 Feb 24 j 08:05	0°♄			1308 Aug 24 j 04:07	0°♎		
evening set	1304 Mar 04 j 12:52	6°♄59'04		morning rise	1308 Sep 12 j 07:49	12°♎13'47		
	1304 Apr 04 j 11:54	0°♄			1308 Oct 10 j 00:11	0°♎		
asc. node	1304 Apr 20 j 17:34	11°♄44'57			1308 Nov 25 j 05:29	0°♎		
					1309 Jan 09 j 20:31	0°♎		
conjunction	1304 May 04 j 23:40	21°♄52'46	0°08'57	desc. node	1309 Feb 11 j 04:11	21°♎22'42		
minimum elong	1304 May 04 j 23:06	21°♄51'47	0°08'56		1309 Feb 24 j 05:24	0°♎		
behind sun begin	1304 May 04 j 02:46	21°♄15'57			1309 Apr 11 j 07:01	0°♎		
behind sun end	1304 May 05 j 19:26	22°♄27'35			1309 Jun 01 j 06:04	0°♎		
	1304 May 16 j 14:04	0°♎		retrograde	1309 Jul 26 j 14:57	16°♎48'24		
max. Earth dist.	1304 Jun 08 j 08:28	15°♎37'41	2.54694 AU	min. Earth dist.	1309 Aug 22 j 16:09	12°♎21'08	0.38241 AU	
morning rise	1304 Jun 29 j 04:04	29°♎34'58		greatest brilliancy	1309 Aug 26 j 09:26	11°♎18'44	-2.9m	
	1304 Jun 29 j 19:10	0°♎		opposition	1309 Aug 27 j 03:17	11°♎06'13	-5°59'29	
	1304 Aug 15 j 01:31	0°♎		direct	1309 Sep 25 j 19:31	6°♎01'30		
	1304 Oct 02 j 09:50	0°♎			1309 Dec 05 j 21:36	0°♄		
	1304 Nov 22 j 22:21	0°♎		asc. node	1309 Dec 11 j 14:59	3°♄07'19		
	1305 Jan 24 j 05:13	0°♎			1310 Jan 26 j 06:32	0°♄		
retrograde	1305 Mar 08 j 18:46	9°♎16'25			1310 Mar 15 j 13:53	0°♎		
opposition	1305 Apr 14 j 03:03	1°♎31'41	1°08'40		1310 May 02 j 13:16	0°♎		
greatest brilliancy	1305 Apr 14 j 11:54	1°♎23'35	-1.9m		1310 Jun 19 j 12:18	0°♎		
	1305 Apr 18 j 06:54	30°♎		evening set	1310 Jul 20 j 14:07	19°♎33'49		
min. Earth dist.	1305 Apr 21 j 19:30	28°♎43'04	0.55054 AU		1310 Aug 06 j 00:40	0°♎		
desc. node	1305 May 09 j 05:24	23°♎38'14		max. Earth dist.	1310 Aug 22 j 06:17	10°♎23'01	2.65746 AU	
direct	1305 May 24 j 00:42	22°♎08'52						
	1305 Jun 29 j 21:40	0°♎		conjunction	1310 Sep 04 j 03:44	18°♎42'00	0°57'03	
	1305 Aug 24 j 20:35	0°♎		minimum elong	1310 Sep 04 j 04:47	18°♎43'42	0°57'01	
	1305 Oct 07 j 03:33	0°♎			1310 Sep 21 j 12:16	0°♎		
	1305 Nov 16 j 02:04	0°♎		morning rise	1310 Oct 19 j 00:34	18°♎12'09		
	1305 Dec 25 j 03:26	0°♎			1310 Nov 05 j 13:10	0°♎		
	1306 Feb 02 j 16:52	0°♄			1310 Dec 19 j 00:48	0°♎		
asc. node	1306 Mar 08 j 17:08	25°♄00'36		desc. node	1310 Dec 30 j 02:26	7°♎48'10		
	1306 Mar 15 j 15:27	0°♄			1311 Jan 30 j 02:31	0°♎		
	1306 Apr 27 j 10:26	0°♎			1311 Mar 12 j 02:38	0°♎		
evening set	1306 Apr 30 j 11:54	2°♎05'40			1311 Apr 21 j 16:59	0°♎		
	1306 Jun 11 j 02:48	0°♎			1311 Jun 02 j 06:24	0°♄		
					1311 Jul 18 j 07:17	0°♄		
conjunction	1306 Jun 21 j 13:14	6°♎50'56	0°54'16	retrograde	1311 Sep 23 j 12:59	23°♎56'05		
minimum elong	1306 Jun 21 j 11:50	6°♎48'37	0°54'16	min. Earth dist.	1311 Oct 23 j 00:03	17°♎56'53	0.49637 AU	
max. Earth dist.	1306 Jul 07 j 01:10	16°♎55'45	2.63751 AU	asc. node	1311 Oct 29 j 14:27	15°♎31'37		
	1306 Jul 27 j 08:24	0°♎		opposition	1311 Oct 31 j 00:12	15°♎00'30	0°04'26	
morning rise	1306 Aug 08 j 08:49	7°♎40'36		greatest brilliancy	1310 Jun 21 j 03:40	1°♎01'43	1.8m	
	1306 Sep 12 j 15:10	0°♎		direct	1311 Dec 04 j 01:05	7°♎43'15		
	1306 Oct 30 j 16:15	0°♎			1312 Feb 13 j 11:47	0°♎		
	1306 Dec 18 j 20:56	0°♎			1312 Apr 08 j 23:11	0°♎		
	1307 Feb 09 j 08:15	0°♎			1312 May 29 j 19:45	0°♎		
desc. node	1307 Mar 27 j 04:43	21°♎34'48			1312 Jul 17 j 12:46	0°♎		
	1307 Apr 27 j 23:44	0°♎		evening set	1312 Aug 26 j 00:49	25°♎16'37		
retrograde	1307 May 08 j 05:42	0°♎37'57			1312 Sep 02 j 05:59	0°♎		
	1307 May 18 j 08:21	30°♎		max. Earth dist.	1312 Sep 16 j 00:02	9°♎06'00	2.58738 AU	
opposition	1307 Jun 09 j 05:35	24°♎52'39	-4°06'19					
greatest brilliancy	1307 Jun 10 j 06:02	24°♎34'04	-2.6m	conjunction	1312 Oct 12 j 00:25	26°♎41'12	0°20'37	
min. Earth dist.	1307 Jun 16 j 12:34	22°♎40'37	0.42047 AU	minimum elong	1312 Oct 12 j 01:12	26°♎42'31	0°20'37	
direct	1307 Jul 13 j 13:40	18°♎03'43			1312 Oct 16 j 20:07	0°♎		
	1307 Aug 27 j 07:53	0°♎		desc. node	1312 Nov 16 j 01:51	21°♎11'48		
	1307 Oct 17 j 03:00	0°♎			1312 Nov 28 j 08:24	0°♎		
	1307 Nov 29 j 07:43	0°♎		morning rise	1312 Nov 29 j 22:09	1°♎08'13		
	1308 Jan 10 j 11:21	0°♄			1313 Jan 08 j 02:09	0°♎		
asc. node	1308 Jan 24 j 16:13	10°♄01'36			1313 Feb 16 j 13:41	0°♎		
	1308 Feb 22 j 08:21	0°♄			1313 Mar 27 j 11:31	0°♎		
	1308 Apr 06 j 14:40	0°♎			1313 May 05 j 17:29	0°♄		
	1308 May 22 j 07:44	0°♎			1313 Jun 15 j 12:58	0°♄		
evening set	1308 Jun 12 j 10:29	13°♎36'31			1313 Jul 30 j 00:11	0°♎		
	1308 Jul 08 j 01:37	0°♎		asc. node	1313 Sep 15 j 13:25	26°♎20'44		
					1313 Sep 24 j 01:25	0°♎		
conjunction	1308 Jul 29 j 14:00	13°♎42'18	1°09'10	retrograde	1313 Nov 03 j 05:38	9°♎06'50		
minimum elong	1308 Jul 29 j 13:56	13°♎42'13	1°09'09	min. Earth dist.	1313 Dec 08 j 01:39	1°♎08'34	0.61226 AU	
max. Earth dist.	1308 Jul 29 j 19:24	13°♎50'55	2.67467 AU		1313 Dec 10 j 22:43	30°♎		

opposition	1313 Dec 12 j 23:23	29° Π 11'29	3°24'17		1319 Jan 24 j 07:45	0° H	
greatest brilliancy	1313 Dec 12 j 07:59	29° Π 26'49	-1.6m	evening set	1319 Feb 06 j 11:33	10° H 18'41	
direct	1314 Jan 19 j 19:47	20° Π 21'55			1319 Mar 03 j 22:07	0° Υ	
	1314 Mar 05 j 04:04	0° S			1319 Apr 12 j 21:31	0° B	
	1314 May 06 j 21:09	0° Ω					
	1314 Jun 27 j 18:03	0° M		conjunction	1319 Apr 13 j 01:27	0° B 07'12	-0°16'08
	1314 Aug 14 j 12:19	0° A		minimum elong	1319 Apr 13 j 02:39	0° B 09'25	0°16'07
	1314 Sep 28 j 04:54	0° M		asc. node	1319 May 08 j 11:00	18° B 28'42	
desc. node	1314 Oct 04 j 01:26	4° M 04'17			1319 May 24 j 19:19	0° Π	
evening set	1314 Oct 06 j 19:27	5° M 59'43		max. Earth dist.	1319 May 25 j 22:25	0° Π 47'14	2.49826 AU
max. Earth dist.	1314 Oct 21 j 04:34	16° M 10'19	2.47241 AU	morning rise	1319 Jun 11 j 19:15	12° Π 25'20	
	1314 Nov 09 j 07:27	0° A			1319 Jul 07 j 22:21	0° S	
					1319 Aug 23 j 08:59	0° Ω	
conjunction	1314 Nov 28 j 13:18	14° A 14'38	-0°33'15		1319 Oct 11 j 14:01	0° M	
minimum elong	1314 Nov 28 j 11:36	14° A 11'27	0°33'15		1319 Dec 05 j 06:52	0° A	
	1314 Dec 19 j 09:22	0° B		retrograde	1320 Feb 19 j 16:48	23° A 45'28	
morning rise	1315 Jan 27 j 12:46	0° \approx 17'57		opposition	1320 Mar 28 j 06:03	15° A 27'53	2°23'44
	1315 Jan 27 j 03:36	0° \approx		greatest brilliancy	1320 Mar 28 j 20:34	15° A 14'12	-1.7m
	1315 Mar 06 j 09:30	0° H		min. Earth dist.	1320 Apr 03 j 18:26	13° A 00'18	0.59447 AU
	1315 Apr 14 j 00:13	0° Υ		direct	1320 May 08 j 01:58	5° A 40'56	
	1315 May 23 j 21:51	0° B		desc. node	1320 May 25 j 21:19	7° A 37'43	
	1315 Jul 05 j 02:23	0° Π			1320 Jul 19 j 09:17	0° M	
asc. node	1315 Aug 03 j 11:21	19° Π 32'34			1320 Sep 05 j 04:05	0° A	
	1315 Aug 20 j 02:18	0° S			1320 Oct 16 j 18:16	0° B	
	1315 Oct 13 j 23:45	0° Ω			1320 Nov 24 j 23:11	0° \approx	
retrograde	1315 Dec 08 j 13:49	14° Ω 57'32			1321 Jan 02 j 12:58	0° H	
opposition	1316 Jan 17 j 18:32	5° Ω 08'34	4°31'03		1321 Feb 10 j 16:20	0° Υ	
min. Earth dist.	1316 Jan 16 j 16:57	5° Ω 34'11	0.67182 AU		1321 Mar 23 j 05:35	0° B	
greatest brilliancy	1316 Jan 17 j 13:29	5° Ω 13'38	-1.3m	asc. node	1321 Mar 25 j 09:14	1° B 33'21	
	1316 Jan 31 j 11:04	30° R S		evening set	1321 Apr 10 j 07:16	12° B 56'51	
direct	1316 Feb 27 j 01:31	25° S 29'06			1321 May 04 j 16:12	0° Π	
	1316 Mar 27 j 07:26	0° Ω					
	1316 Jun 03 j 08:16	0° M		conjunction	1321 Jun 04 j 11:13	20° Π 55'40	0°40'22
	1316 Jul 24 j 06:20	0° A		minimum elong	1321 Jun 04 j 09:39	20° Π 53'01	0°40'21
desc. node	1316 Aug 20 j 23:54	17° A 55'48			1321 Jun 18 j 02:30	0° S	
	1316 Sep 07 j 20:41	0° M		max. Earth dist.	1321 Jun 26 j 17:04	5° S 40'25	2.60815 AU
	1316 Oct 20 j 01:19	0° A		morning rise	1321 Jul 24 j 12:50	23° S 45'31	
evening set	1316 Nov 28 j 12:12	29° A 42'07			1321 Aug 03 j 06:15	0° Ω	
	1316 Nov 28 j 21:30	0° B			1321 Sep 19 j 19:14	0° M	
	1317 Jan 06 j 08:07	0° \approx			1321 Nov 07 j 17:59	0° A	
					1321 Dec 29 j 10:17	0° M	
conjunction	1317 Jan 31 j 21:22	20° \approx 11'09	-1°04'32		1322 Mar 02 j 05:30	0° A	
minimum elong	1317 Jan 31 j 22:07	20° \approx 12'38	1°04'32	retrograde	1322 Apr 11 j 14:49	8° A 14'21	
	1317 Feb 13 j 07:47	0° H		desc. node	1322 Apr 12 j 20:15	8° A 13'47	
max. Earth dist.	1317 Feb 21 j 05:32	6° H 13'18	2.37236 AU	opposition	1322 May 15 j 11:30	1° A 36'37	-1°43'26
	1317 Mar 23 j 18:39	0° Υ		greatest brilliancy	1322 May 16 j 00:13	1° A 25'57	-2.3m
morning rise	1317 Apr 12 j 09:59	14° Υ 58'41			1322 May 20 j 06:13	30° R M	
	1317 May 02 j 12:48	0° B		min. Earth dist.	1322 May 23 j 21:16	28° M 48'01	0.47081 AU
	1317 Jun 13 j 06:57	0° Π		direct	1322 Jun 21 j 15:13	23° M 29'07	
asc. node	1317 Jun 20 j 11:05	4° Π 58'55			1322 Jul 23 j 23:14	0° A	
	1317 Jul 27 j 16:09	0° S			1322 Sep 17 j 11:33	0° B	
	1317 Sep 13 j 15:25	0° Ω			1322 Oct 30 j 11:19	0° \approx	
	1317 Nov 08 j 02:44	0° M			1322 Dec 10 j 02:58	0° H	
retrograde	1318 Jan 11 j 08:51	18° M 15'22			1323 Jan 19 j 19:36	0° Υ	
opposition	1318 Feb 19 j 20:55	8° M 59'40	4°11'44	asc. node	1323 Feb 10 j 07:59	15° Υ 33'18	
greatest brilliancy	1318 Feb 20 j 06:22	8° M 50'23	-1.3m		1323 Mar 02 j 16:17	0° B	
min. Earth dist.	1318 Feb 22 j 16:36	7° M 53'04	0.66583 AU		1323 Apr 15 j 04:57	0° Π	
	1318 Mar 20 j 15:12	30° R Ω		evening set	1323 May 28 j 08:38	28° Π 39'20	
direct	1318 Apr 02 j 06:48	28° Ω 58'18			1323 May 30 j 10:01	0° S	
	1318 Apr 15 j 11:13	0° M					
	1318 Jun 29 j 14:38	0° A		conjunction	1323 Jul 15 j 23:01	0° Ω 02'39	1°06'47
desc. node	1318 Jul 08 j 22:19	5° A 18'26		minimum elong	1323 Jul 15 j 22:23	0° Ω 01'39	1°06'47
	1318 Aug 17 j 13:04	0° M			1323 Jul 15 j 21:22	0° Ω	
	1318 Sep 29 j 16:56	0° A		max. Earth dist.	1323 Jul 21 j 21:28	3° Ω 50'14	2.66667 AU
	1318 Nov 08 j 19:06	0° B		morning rise	1323 Aug 30 j 11:54	29° Ω 03'01	
	1318 Dec 17 j 06:47	0° \approx			1323 Aug 31 j 23:45	0° M	
greatest brilliancy	1319 Jan 03 j 04:15	13° \approx 19'53	1.2m		1323 Oct 18 j 03:50	0° A	

	1323 Dec 04 j 04:51	0°♌		1329 Mar 21 j 16:49	0°♏	
	1324 Jan 20 j 10:26	0°♏		1329 May 16 j 02:59	0°♏	
desc. node	1324 Feb 28 j 19:35	24°♏28'44		1329 Jul 05 j 09:07	0°♏	
	1324 Mar 08 j 22:46	0°♏		1329 Aug 21 j 14:59	0°♏	
	1324 May 02 j 09:32	0°♏	evening set	1329 Sep 19 j 15:56	19°♏20'10	
retrograde	1324 Jun 25 j 13:37	15°♏08'39		1329 Oct 05 j 05:31	0°♏	
opposition	1324 Jul 25 j 18:23	10°♏10'09 -6°51'33	max. Earth dist.	1329 Oct 05 j 12:32	0°♏12'08	2.52182 AU
greatest brilliancy	1324 Jul 26 j 00:14	10°♏06'15 -2.9m	desc. node	1329 Oct 20 j 16:44	10°♏48'16	
min. Earth dist.	1324 Jul 26 j 12:57	9°♏57'48 0.37444 AU				
direct	1324 Aug 24 j 19:13	5°♏08'31	conjunction	1329 Nov 08 j 10:36	24°♏10'51 -0°11'29	
	1324 Nov 03 j 09:30	0°♏	minimum elong	1329 Nov 08 j 10:03	24°♏09'51 0°11'29	
	1324 Dec 22 j 04:48	0°♏	behind sun begin	1329 Nov 07 j 18:18	23°♏41'27	
asc. node	1324 Dec 28 j 07:32	3°♏57'07	behind sun end	1329 Nov 09 j 01:48	24°♏38'16	
	1325 Feb 06 j 05:08	0°♏		1329 Nov 16 j 11:14	0°♏	
	1325 Mar 24 j 07:32	0°♏		1329 Dec 26 j 18:33	0°♏	
	1325 May 10 j 03:35	0°♏	morning rise	1330 Jan 01 j 23:07	4°♏42'29	
	1325 Jun 26 j 12:21	0°♏		1330 Feb 03 j 18:37	0°♏	
evening set	1325 Jul 06 j 01:46	6°♏02'40		1330 Mar 14 j 05:33	0°♏	
	1325 Aug 12 j 19:23	0°♏		1330 Apr 22 j 00:14	0°♏	
max. Earth dist.	1325 Aug 12 j 23:42	0°♏06'53 2.67083 AU		1330 Jun 01 j 02:32	0°♏	
				1330 Jul 13 j 18:15	0°♏	
conjunction	1325 Aug 20 j 21:41	5°♏10'20 1°04'45	asc. node	1330 Aug 20 j 04:38	23°♏59'04	
minimum elong	1325 Aug 20 j 22:25	5°♏11'30 1°04'45		1330 Aug 30 j 09:13	0°♏	
	1325 Sep 28 j 08:55	0°♏		1330 Nov 08 j 00:16	0°♏	
morning rise	1325 Oct 04 j 08:07	3°♏53'45	retrograde	1330 Nov 25 j 04:42	1°♏48'06	
	1325 Nov 12 j 18:31	0°♏		1330 Dec 11 j 10:34	30°♏	
	1325 Dec 26 j 21:34	0°♏	min. Earth dist.	1331 Jan 01 j 18:25	22°♏54'37 0.65600 AU	
desc. node	1326 Jan 15 j 19:16	13°♏48'27	opposition	1331 Jan 04 j 08:28	21°♏52'21 4°16'50	
	1326 Feb 07 j 20:43	0°♏	greatest brilliancy	1331 Jan 03 j 22:06	22°♏02'46 -1.4m	
	1326 Mar 22 j 00:24	0°♏	direct	1331 Feb 12 j 19:58	12°♏28'44	
	1326 May 03 j 04:33	0°♏		1331 Apr 17 j 11:39	0°♏	
	1326 Jun 16 j 19:20	0°♏		1331 Jun 13 j 20:52	0°♏	
	1326 Aug 20 j 18:42	0°♏		1331 Aug 02 j 03:20	0°♏	
retrograde	1326 Sep 03 j 12:37	1°♏20'50	desc. node	1331 Sep 07 j 15:29	24°♏05'30	
	1326 Sep 17 j 02:59	30°♏		1331 Sep 16 j 06:26	0°♏	
min. Earth dist.	1326 Oct 01 j 01:00	26°♏12'13 0.44443 AU		1331 Oct 28 j 09:10	0°♏	
opposition	1326 Oct 09 j 03:59	23°♏26'42 -2°07'24	evening set	1331 Nov 06 j 14:02	6°♏47'48	
greatest brilliancy	1326 Oct 08 j 14:01	23°♏38'36 -2.5m	max. Earth dist.	1331 Nov 30 j 12:08	24°♏48'44 2.39494 AU	
direct	1326 Nov 10 j 06:19	17°♏01'45		1331 Dec 07 j 06:47	0°♏	
asc. node	1326 Nov 15 j 05:55	17°♏11'24				
	1326 Dec 30 j 19:48	0°♏	conjunction	1332 Jan 05 j 00:32	22°♏18'39 -1°00'33	
	1327 Feb 26 j 20:28	0°♏	minimum elong	1332 Jan 04 j 22:41	22°♏15'02 1°00'32	
	1327 Apr 19 j 00:15	0°♏		1332 Jan 14 j 19:39	0°♏	
	1327 Jun 07 j 09:34	0°♏		1332 Feb 21 j 21:04	0°♏	
	1327 Jul 25 j 12:38	0°♏	morning rise	1332 Mar 13 j 19:41	16°♏24'47	
evening set	1327 Aug 12 j 06:34	11°♏17'58		1332 Mar 31 j 08:30	0°♏	
max. Earth dist.	1327 Sep 06 j 13:10	27°♏40'11 2.62107 AU		1332 May 10 j 02:37	0°♏	
	1327 Sep 10 j 02:27	0°♏		1332 May 20 j 22:11	0°♏	
			asc. node	1332 Jul 07 j 03:34	11°♏08'52	
conjunction	1327 Sep 27 j 06:45	11°♏22'23 0°37'26		1332 Aug 04 j 15:35	0°♏	
minimum elong	1327 Sep 27 j 07:53	11°♏24'15 0°37'25		1332 Sep 23 j 00:08	0°♏	
	1327 Oct 24 j 19:46	0°♏		1332 Nov 26 j 15:08	0°♏	
morning rise	1327 Nov 12 j 23:19	13°♏15'08	retrograde	1332 Dec 28 j 15:09	5°♏29'40	
desc. node	1327 Dec 03 j 17:54	27°♏55'08		1333 Jan 26 j 23:09	30°♏	
	1327 Dec 06 j 15:51	0°♏	opposition	1333 Feb 06 j 12:33	25°♏58'26 4°28'35	
	1328 Jan 16 j 19:53	0°♏	greatest brilliancy	1333 Feb 06 j 16:36	25°♏54'24 -1.3m	
	1328 Feb 25 j 18:29	0°♏	min. Earth dist.	1333 Feb 07 j 19:44	25°♏27'28 0.67601 AU	
	1328 Apr 05 j 03:13	0°♏	direct	1333 Mar 19 j 15:32	16°♏02'24	
	1328 May 14 j 21:25	0°♏		1333 May 13 j 15:15	0°♏	
	1328 Jun 25 j 14:38	0°♏		1333 Jul 09 j 20:30	0°♏	
	1328 Aug 11 j 21:58	0°♏	desc. node	1333 Jul 25 j 14:12	9°♏36'13	
asc. node	1328 Oct 02 j 04:38	21°♏29'30		1333 Aug 25 j 23:15	0°♏	
retrograde	1328 Oct 19 j 05:36	23°♏23'59		1333 Oct 07 j 14:49	0°♏	
min. Earth dist.	1328 Nov 21 j 01:35	16°♏07'51 0.57229 AU		1333 Nov 16 j 13:09	0°♏	
opposition	1328 Nov 27 j 09:01	13°♏39'43 2°27'25		1333 Dec 24 j 23:17	0°♏	
greatest brilliancy	1328 Nov 26 j 18:23	13°♏54'04 -1.8m	evening set	1334 Jan 09 j 04:40	12°♏01'48	
direct	1329 Jan 02 j 21:46	5°♏19'42		1334 Jan 31 j 22:40	0°♏	

	1334 Mar 11 j 10:27	0°Υ		desc. node	1339 Mar 17 j 11:50	24°♂26'57	
					1339 Mar 29 j 02:06	0°♂	
conjunction	1334 Mar 18 j 00:57	5°Υ03'34 -0°41'18		retrograde	1339 May 25 j 06:49	15°♂36'48	
minimum elong	1334 Mar 18 j 03:57	5°Υ09'18 0°41'16		opposition	1339 Jun 25 j 03:50	10°♂18'25 -5°26'22	
	1334 Apr 20 j 06:28	0°♂		greatest brilliancy	1339 Jun 26 j 04:46	10°♂00'41 -2.8m	
max. Earth dist.	1334 May 07 j 05:02	12°♂21'06 2.44503 AU		min. Earth dist.	1339 Jun 30 j 20:56	8°♂41'04 0.39744 AU	
morning rise	1334 May 21 j 23:14	22°♂54'04		direct	1339 Jul 27 j 19:23	4°♂16'20	
asc. node	1334 May 25 j 02:08	25°♂06'25			1339 Oct 06 j 03:39	0°≈	
	1334 Jun 01 j 01:19	0°♂			1339 Nov 21 j 12:33	0°♂	
	1334 Jul 15 j 04:14	0°♂			1340 Jan 04 j 00:34	0°Υ	
	1334 Aug 30 j 23:19	0°♂		asc. node	1340 Jan 14 j 22:13	7°Υ32'31	
	1334 Oct 20 j 13:44	0°♂			1340 Feb 16 j 16:15	0°♂	
	1334 Dec 21 j 06:24	0°♂			1340 Apr 01 j 10:39	0°♂	
retrograde	1335 Feb 03 j 11:55	9°♂32'29			1340 May 17 j 11:29	0°♂	
opposition	1335 Mar 13 j 23:18	0°♂48'34 3°18'03		evening set	1340 Jun 21 j 06:04	22°♂15'45	
greatest brilliancy	1335 Mar 14 j 14:07	0°♂34'17 -1.5m			1340 Jul 03 j 09:43	0°♂	
	1335 Mar 16 j 01:36	30°♂♂		max. Earth dist.	1340 Aug 04 j 00:19	20°♂05'53 2.67568 AU	
min. Earth dist.	1335 Mar 19 j 02:26	28°♂49'52 0.62982 AU					
direct	1335 Apr 24 j 06:27	20°♂49'55		conjunction	1340 Aug 06 j 18:55	21°♂51'50 1°08'40	
	1335 Jun 05 j 01:22	0°♂		minimum elong	1340 Aug 06 j 19:11	21°♂52'15 1°08'40	
desc. node	1335 Jun 12 j 12:34	3°♂04'35			1340 Aug 19 j 13:24	0°♂	
	1335 Aug 01 j 17:17	0°♂		morning rise	1340 Sep 20 j 06:32	20°♂18'54	
	1335 Sep 15 j 18:21	0°♂			1340 Oct 05 j 06:38	0°♂	
	1335 Oct 26 j 12:28	0°♂			1340 Nov 20 j 04:02	0°♂	
	1335 Dec 04 j 07:49	0°≈			1341 Jan 04 j 04:14	0°♂	
	1336 Jan 11 j 14:37	0°♂		desc. node	1341 Feb 01 j 10:29	19°♂05'34	
	1336 Feb 19 j 11:03	0°Υ			1341 Feb 17 j 11:43	0°♂	
evening set	1336 Mar 18 j 14:01	21°Υ05'52			1341 Apr 02 j 15:40	0°≈	
	1336 Mar 30 j 17:05	0°♂			1341 May 18 j 10:19	0°♂	
asc. node	1336 Apr 11 j 01:52	8°♂13'56			1341 Jul 16 j 13:13	0°Υ	
	1336 May 11 j 20:59	0°♂		retrograde	1341 Aug 10 j 20:44	4°Υ15'29	
					1341 Sep 05 j 12:48	30°♂♂	
conjunction	1336 May 16 j 15:25	3°♂18'11 0°21'40		min. Earth dist.	1341 Sep 06 j 11:49	29°♂43'10 0.39925 AU	
minimum elong	1336 May 16 j 14:15	3°♂16'09 0°21'40		opposition	1341 Sep 12 j 21:51	27°♂46'57 -4°42'30	
max. Earth dist.	1336 Jun 15 j 11:08	23°♂34'31 2.57071 AU		greatest brilliancy	1341 Sep 11 j 23:51	28°♂03'38 -2.8m	
	1336 Jun 25 j 02:35	0°♂		direct	1341 Oct 13 j 06:25	22°♂17'59	
morning rise	1336 Jul 08 j 18:00	8°♂59'25			1341 Nov 19 j 01:30	0°Υ	
	1336 Aug 10 j 06:35	0°♂		asc. node	1341 Dec 01 j 22:34	5°Υ18'39	
	1336 Sep 27 j 05:49	0°♂			1342 Jan 18 j 02:39	0°♂	
	1336 Nov 16 j 13:37	0°♂			1342 Mar 09 j 10:44	0°♂	
	1337 Jan 11 j 23:36	0°♂			1342 Apr 27 j 06:51	0°♂	
retrograde	1337 Mar 20 j 03:55	19°♂21'04			1342 Jun 14 j 16:07	0°♂	
opposition	1337 Apr 24 j 16:06	11°♂57'56 0°14'01		evening set	1342 Jul 28 j 20:21	27°♂45'06	
greatest brilliancy	1337 Dec 06 j 23:39	20°≈25'29 0.5m			1342 Aug 01 j 09:19	0°♂	
desc. node	1337 Apr 29 j 12:21	10°♂13'35		max. Earth dist.	1342 Aug 27 j 17:44	16°♂52'45 2.64678 AU	
min. Earth dist.	1337 May 02 j 19:32	9°♂03'30 0.52297 AU					
direct	1337 May 02 j 18:39	2°♂55'47		conjunction	1342 Sep 12 j 10:32	27°♂04'43 0°50'51	
	1337 Aug 16 j 04:12	0°♂		minimum elong	1342 Sep 12 j 11:41	27°♂06'36 0°50'50	
	1337 Sep 30 j 10:40	0°♂			1342 Sep 16 j 21:42	0°♂	
	1337 Nov 10 j 02:21	0°≈		morning rise	1342 Oct 27 j 18:21	27°♂14'15	
	1337 Dec 19 j 13:40	0°♂			1342 Oct 31 j 19:55	0°♂	
	1338 Jan 28 j 10:21	0°Υ			1342 Dec 14 j 01:43	0°♂	
asc. node	1338 Feb 26 j 23:51	21°Υ39'11		desc. node	1342 Dec 20 j 09:17	4°♂28'34	
	1338 Mar 10 j 14:59	0°♂			1343 Jan 24 j 18:56	0°♂	
	1338 Apr 22 j 14:50	0°♂			1343 Mar 06 j 08:29	0°≈	
evening set	1338 May 11 j 01:46	12°♂29'32			1343 Apr 15 j 09:47	0°♂	
	1338 Jun 06 j 10:31	0°♂			1343 May 26 j 01:56	0°Υ	
					1343 Jul 08 j 17:47	0°♂	
conjunction	1338 Jun 30 j 16:47	15°♂49'24 1°00'09			1343 Sep 04 j 00:56	0°♂	
minimum elong	1338 Jun 30 j 15:36	15°♂47'30 1°00'09		retrograde	1343 Oct 03 j 18:48	5°♂38'28	
max. Earth dist.	1338 Jul 12 j 15:35	23°♂32'08 2.65029 AU		asc. node	1343 Oct 19 j 21:50	3°♂43'41	
	1338 Jul 22 j 17:09	0°♂			1343 Nov 01 j 04:19	30°♂♂	
morning rise	1338 Aug 16 j 12:48	15°♂49'52		min. Earth dist.	1343 Nov 03 j 10:59	29°♂10'15 0.52489 AU	
	1338 Sep 07 j 21:28	0°♂		opposition	1343 Nov 10 j 23:06	26°♂19'56 1°05'15	
	1338 Oct 25 j 13:25	0°♂		greatest brilliancy	1343 Nov 10 j 15:03	26°♂27'34 -2.1m	
	1338 Dec 12 j 19:26	0°♂		direct	1343 Dec 15 j 22:56	18°♂37'33	
	1339 Jan 31 j 17:41	0°♂			1344 Feb 01 j 18:19	0°♂	

	1344 Apr 02 j 09:37	0°☾		minimum elong	1349 Feb 17 j 12:38	7°☿06'15	0°59'52
	1344 May 24 j 11:55	0°♈			1349 Mar 18 j 22:41	0°♈	
	1344 Jul 12 j 16:37	0°♊		max. Earth dist.	1349 Apr 06 j 02:06	13°♈50'50	2.39282 AU
	1344 Aug 28 j 14:19	0°♋		morning rise	1349 Apr 27 j 18:26	0°♋03'13	
evening set	1344 Sep 03 j 17:57	4°♋02'47			1349 Apr 27 j 16:42	0°♋	
max. Earth dist.	1344 Sep 22 j 16:30	16°♋41'01	2.56600 AU		1349 Jun 08 j 10:02	0°♊	
	1344 Oct 12 j 05:01	0°♌		asc. node	1349 Jun 10 j 18:47	1°♊39'07	
					1349 Jul 22 j 15:02	0°☾	
conjunction	1344 Oct 21 j 12:19	6°♌27'12	0°09'32		1349 Sep 08 j 00:18	0°♈	
minimum elong	1344 Oct 21 j 12:42	6°♌27'53	0°09'32		1349 Oct 31 j 00:02	0°♊	
behind sun begin	1344 Oct 20 j 19:46	5°♌58'22		retrograde	1350 Jan 19 j 12:41	26°♊07'57	
behind sun end	1344 Oct 22 j 05:39	6°♌57'25		opposition	1350 Feb 27 j 17:02	17°♊02'21	3°55'56
desc. node	1344 Nov 06 j 08:29	17°♌36'08		greatest brilliancy	1350 Feb 28 j 04:56	16°♊50'42	-1.4m
	1344 Nov 23 j 15:24	0°♈		min. Earth dist.	1350 Mar 03 j 08:41	15°♊36'34	0.65590 AU
morning rise	1344 Dec 11 j 01:10	12°♈43'15		direct	1350 Apr 10 j 03:28	7°♊00'03	
	1345 Jan 03 j 05:35	0°♉			1350 Jun 21 j 21:10	0°♋	
	1345 Feb 11 j 12:43	0°♊		desc. node	1350 Jun 29 j 05:33	3°♋53'54	
	1345 Mar 22 j 06:02	0°♋			1350 Aug 11 j 18:22	0°♌	
	1345 Apr 30 j 06:36	0°♈			1350 Sep 24 j 11:19	0°♈	
	1345 Jun 09 j 17:15	0°♋			1350 Nov 03 j 18:17	0°♉	
	1345 Jul 23 j 05:58	0°♊			1350 Dec 12 j 07:57	0°♊	
asc. node	1345 Sep 05 j 19:52	26°♊37'11			1351 Jan 19 j 10:13	0°♋	
	1345 Sep 12 j 09:15	0°☾		evening set	1351 Feb 22 j 01:20	26°♋09'10	
retrograde	1345 Nov 11 j 10:39	17°☾57'24			1351 Feb 27 j 01:46	0°♈	
min. Earth dist.	1345 Dec 17 j 07:05	9°☾37'52	0.63050 AU		1351 Apr 08 j 02:23	0°♋	
opposition	1345 Dec 21 j 09:04	7°☾59'51	3°48'31				
greatest brilliancy	1345 Dec 20 j 18:44	8°☾14'12	-1.5m	conjunction	1351 Apr 26 j 10:46	13°♋18'20	-0°01'27
	1346 Jan 16 j 03:40	30°♈11		minimum elong	1351 Apr 26 j 10:51	13°♋18'27	0°01'27
direct	1346 Jan 28 j 20:28	28°♈56'39		behind sun begin	1351 Apr 25 j 09:50	12°♋33'35	
	1346 Feb 11 j 06:42	0°☾		behind sun end	1351 Apr 27 j 11:51	14°♋03'16	
	1346 Apr 30 j 00:46	0°♈		asc. node	1351 Apr 28 j 16:42	14°♋54'54	
	1346 Jun 22 j 09:15	0°♊			1351 May 20 j 01:20	0°♊	
	1346 Aug 09 j 15:05	0°♋		max. Earth dist.	1351 Jun 03 j 14:50	10°♊04'12	2.52607 AU
	1346 Sep 23 j 11:34	0°♌		morning rise	1351 Jun 22 j 12:52	22°♊54'10	
desc. node	1346 Sep 24 j 07:04	0°♌33'43			1351 Jul 03 j 04:02	0°☾	
evening set	1346 Oct 17 j 08:42	16°♌47'32			1351 Aug 18 j 10:47	0°♈	
max. Earth dist.	1346 Nov 01 j 16:48	27°♌52'16	2.44407 AU		1351 Oct 06 j 01:46	0°♊	
	1346 Nov 04 j 14:43	0°♈			1351 Nov 27 j 15:07	0°♋	
					1352 Feb 06 j 21:39	0°♌	
conjunction	1346 Dec 11 j 04:37	27°♈21'40	-0°44'57	retrograde	1352 Feb 29 j 17:30	2°♌51'12	
minimum elong	1346 Dec 11 j 02:26	27°♈17'31	0°44'56		1352 Mar 21 j 23:46	30°♈11	
	1346 Dec 14 j 15:33	0°♉		opposition	1352 Apr 06 j 15:08	24°♋50'49	1°43'01
	1347 Jan 22 j 08:01	0°♊		greatest brilliancy	1352 Apr 07 j 03:06	24°♋39'41	-1.8m
morning rise	1347 Feb 12 j 13:02	16°♊39'43		min. Earth dist.	1352 Apr 13 j 19:24	22°♋10'38	0.57124 AU
	1347 Mar 01 j 12:13	0°♋		direct	1352 May 16 j 23:37	15°♋15'16	
	1347 Apr 09 j 01:09	0°♈		desc. node	1352 May 16 j 04:02	15°♋15'32	
	1347 May 18 j 20:16	0°♋			1352 Jul 09 j 03:16	0°♌	
	1347 Jun 29 j 19:31	0°♊			1352 Aug 29 j 10:29	0°♈	
asc. node	1347 Jul 24 j 19:40	16°♊53'46			1352 Oct 10 j 22:01	0°♉	
	1347 Aug 14 j 03:32	0°☾			1352 Nov 19 j 12:04	0°♊	
	1347 Oct 05 j 02:00	0°♈			1352 Dec 28 j 07:33	0°♋	
retrograde	1347 Dec 16 j 05:32	22°♈46'58			1353 Feb 05 j 15:17	0°♈	
opposition	1348 Jan 25 j 08:33	13°♈03'18	4°33'40	asc. node	1353 Mar 15 j 16:17	28°♈04'38	
greatest brilliancy	1348 Jan 25 j 06:43	13°♈05'07	-1.3m		1353 Mar 18 j 08:11	0°♋	
min. Earth dist.	1348 Jan 25 j 03:14	13°♈08'37	0.67608 AU	evening set	1353 Apr 22 j 01:41	24°♋34'32	
direct	1348 Mar 05 j 23:47	3°♈16'45			1353 Apr 29 j 21:59	0°♊	
	1348 May 27 j 06:17	0°♊			1353 Jun 13 j 10:13	0°☾	
	1348 Jul 18 j 19:08	0°♋					
desc. node	1348 Aug 11 j 06:03	14°♋54'13		conjunction	1353 Jun 14 j 09:56	0°☾39'09	0°49'00
	1348 Sep 02 j 20:49	0°♌		minimum elong	1353 Jun 14 j 08:24	0°☾36'36	0°49'00
	1348 Oct 15 j 05:15	0°♈		max. Earth dist.	1353 Jul 02 j 18:53	12°☾41'50	2.62540 AU
	1348 Nov 24 j 02:14	0°♉			1353 Jul 29 j 13:58	0°♈	
evening set	1348 Dec 12 j 21:23	14°♉34'51		morning rise	1353 Aug 02 j 03:10	2°♈16'22	
	1349 Jan 01 j 12:34	0°♊			1353 Sep 14 j 22:35	0°♊	
	1349 Feb 08 j 11:57	0°♋			1353 Nov 02 j 07:37	0°♋	
					1353 Dec 22 j 09:39	0°♌	
conjunction	1349 Feb 17 j 10:14	7°♋01'34	-0°59'53		1354 Feb 15 j 17:40	0°♈	

desc. node	1354 Apr 03 j 02:58	17°♂51'55		1359 Apr 13 j 03:43	0°♄	
retrograde	1354 Apr 26 j 00:24	20°♂49'27		1359 Jun 02 j 07:54	0°♄	
opposition	1354 May 28 j 21:23	14°♂40'25 -3°02'38		1359 Jul 20 j 19:10	0°♄	
greatest brilliancy	1354 May 29 j 17:57	14°♂24'01 -2.5m	evening set	1359 Aug 20 j 16:03	19°♄41'49	
min. Earth dist.	1354 Jun 05 j 22:42	12°♂07'20 0.44214 AU		1359 Sep 05 j 11:36	0°♄	
direct	1354 Jul 03 j 13:52	7°♂14'12	max. Earth dist.	1359 Sep 12 j 13:16	4°♄39'17 2.60332 AU	
	1354 Sep 06 j 19:19	0°♄				
	1354 Oct 22 j 20:25	0°♄	conjunction	1359 Oct 06 j 03:36	20°♄26'16 0°28'05	
	1354 Dec 03 j 16:02	0°♄	minimum elong	1359 Oct 06 j 04:34	20°♄27'53 0°28'03	
	1355 Jan 14 j 01:12	0°♄		1359 Oct 20 j 04:08	0°♄	
asc. node	1355 Jan 31 j 15:48	12°♂35'46	morning rise	1359 Nov 22 j 22:44	23°♄37'31	
	1355 Feb 25 j 09:04	0°♄	desc. node	1359 Nov 24 j 00:04	24°♄22'39	
	1355 Apr 10 j 05:50	0°♄		1359 Dec 01 j 20:40	0°♄	
	1355 May 25 j 16:10	0°♄		1360 Jan 11 j 19:38	0°♄	
evening set	1355 Jun 06 j 16:12	7°♄46'58		1360 Feb 20 j 12:13	0°♄	
	1355 Jul 11 j 06:21	0°♄		1360 Mar 30 j 14:40	0°♄	
				1360 May 09 j 00:54	0°♄	
conjunction	1355 Jul 24 j 09:45	8°♄23'08 1°08'39		1360 Jun 19 j 02:49	0°♄	
minimum elong	1355 Jul 24 j 09:27	8°♄22'39 1°08'40		1360 Aug 03 j 09:28	0°♄	
max. Earth dist.	1355 Jul 27 j 05:04	10°♄10'21 2.67212 AU	asc. node	1360 Sep 22 j 12:46	25°♄38'26	
	1355 Aug 27 j 08:31	0°♄		1360 Oct 06 j 02:01	0°♄	
morning rise	1355 Sep 07 j 10:26	7°♄03'32	retrograde	1360 Oct 27 j 23:25	3°♄01'15	
	1355 Oct 13 j 07:56	0°♄		1360 Nov 17 j 13:29	30°♄♄	
	1355 Nov 28 j 21:38	0°♄	min. Earth dist.	1360 Nov 30 j 22:11	25°♄20'54 0.59540 AU	
	1356 Jan 14 j 03:59	0°♄	opposition	1360 Dec 06 j 11:03	23°♄09'25 3°03'09	
desc. node	1356 Feb 19 j 02:33	23°♂13'59	greatest brilliancy	1360 Dec 05 j 19:19	23°♄25'01 -1.7m	
	1356 Feb 29 j 15:57	0°♄	direct	1361 Jan 12 j 17:21	14°♄32'19	
	1356 Apr 18 j 02:29	0°♄		1361 Mar 12 j 04:56	0°♄	
	1356 Jun 20 j 07:01	0°♄		1361 May 10 j 03:09	0°♄	
retrograde	1356 Jul 13 j 14:00	3°♄23'49		1361 Jun 30 j 07:11	0°♄	
	1356 Aug 06 j 04:48	30°♄♄		1361 Aug 16 j 21:02	0°♄	
min. Earth dist.	1356 Aug 10 j 21:34	28°♄♄46'18 0.37481 AU	evening set	1361 Sep 29 j 05:14	29°♄03'19	
opposition	1356 Aug 13 j 04:15	28°♄♄09'41 -6°39'18		1361 Sep 30 j 14:03	0°♄	
greatest brilliancy	1356 Aug 12 j 19:24	28°♄♄15'37 -2.9m	desc. node	1361 Oct 10 j 23:51	7°♄14'49	
direct	1356 Sep 11 j 15:32	23°♄♄14'42	max. Earth dist.	1361 Oct 13 j 23:55	9°♄21'19 2.49499 AU	
	1356 Oct 15 j 08:55	0°♄		1361 Nov 11 j 19:06	0°♄	
	1356 Dec 13 j 03:33	0°♄				
asc. node	1356 Dec 18 j 14:22	3°♄16'09	conjunction	1361 Nov 19 j 12:27	5°♄39'37 -0°24'01	
	1357 Jan 30 j 12:49	0°♄	minimum elong	1361 Nov 19 j 11:15	5°♄37'23 0°24'00	
	1357 Mar 18 j 17:01	0°♄		1361 Dec 22 j 00:13	0°♄	
	1357 May 05 j 02:36	0°♄	morning rise	1362 Jan 15 j 21:57	19°♄08'07	
	1357 Jun 21 j 18:40	0°♄		1362 Jan 29 j 21:15	0°♄	
evening set	1357 Jul 14 j 10:07	14°♄16'46		1362 Mar 09 j 05:13	0°♄	
	1357 Aug 08 j 04:45	0°♄		1362 Apr 16 j 21:00	0°♄	
max. Earth dist.	1357 Aug 18 j 07:45	6°♄28'04 2.66446 AU		1362 May 26 j 19:11	0°♄	
				1362 Jul 08 j 02:11	0°♄	
conjunction	1357 Aug 29 j 01:18	13°♄21'19 1°00'42	asc. node	1362 Aug 10 j 10:52	21°♄55'50	
minimum elong	1357 Aug 29 j 02:15	13°♄22'51 1°00'41		1362 Aug 23 j 12:52	0°♄	
	1357 Sep 23 j 17:33	0°♄		1362 Oct 20 j 10:34	0°♄	
morning rise	1357 Oct 12 j 15:52	12°♄26'30	retrograde	1362 Dec 02 j 22:33	9°♄52'53	
	1357 Nov 07 j 22:58	0°♄	min. Earth dist.	1363 Jan 10 j 08:51	0°♄42'22 0.66607 AU	
	1357 Dec 21 j 17:49	0°♄	opposition	1363 Jan 12 j 02:48	0°♄00'16 4°26'45	
desc. node	1358 Jan 06 j 00:58	10°♄42'27	greatest brilliancy	1363 Jan 11 j 19:14	0°♄07'52 -1.3m	
	1358 Feb 02 j 05:04	0°♄		1363 Jan 12 j 03:04	30°♄♄	
	1358 Mar 15 j 16:22	0°♄	direct	1363 Feb 21 j 01:09	20°♄27'24	
	1358 Apr 25 j 20:40	0°♄		1363 Apr 06 j 12:45	0°♄	
	1358 Jun 07 j 08:26	0°♄		1363 Jun 07 j 17:57	0°♄	
	1358 Jul 26 j 13:11	0°♄		1363 Jul 27 j 23:23	0°♄	
retrograde	1358 Sep 15 j 06:38	15°♄03'02	desc. node	1363 Aug 28 j 22:16	20°♄49'44	
min. Earth dist.	1358 Oct 13 j 18:23	9°♄27'14 0.47285 AU		1363 Sep 11 j 10:20	0°♄	
opposition	1358 Oct 21 j 23:36	6°♄31'47 -0°47'58		1363 Oct 23 j 15:29	0°♄	
greatest brilliancy	1358 Oct 21 j 18:07	6°♄36'42 -2.4m	evening set	1363 Nov 19 j 03:15	19°♄45'39	
asc. node	1358 Nov 05 j 13:25	1°♄56'57		1363 Dec 02 j 13:18	0°♄	
	1358 Nov 16 j 14:25	30°♄♄	max. Earth dist.	1363 Dec 31 j 13:53	22°♄33'13 2.37487 AU	
direct	1358 Nov 24 j 04:42	29°♄36'52		1364 Jan 10 j 01:14	0°♄	
	1358 Dec 01 j 22:59	0°♄				
	1359 Feb 18 j 21:04	0°♄	conjunction	1364 Jan 20 j 09:10	8°♄08'42 -1°04'36	

minimum elong	1364 Jan 20 j 08:33	8°≈07'31	1°04'36	retrograde	1369 Apr 01 j 09:54	0°♂09'39	
	1364 Feb 17 j 01:31	0°♂			1369 Apr 06 j 11:08	30°♂♂	
	1364 Mar 26 j 11:57	0°♂		desc. node	1369 Apr 19 j 18:35	28°♂02'08	
morning rise	1364 Mar 30 j 19:06	3°♂18'22		opposition	1369 May 06 j 01:17	23°♂10'17	-0°49'40
	1364 May 05 j 04:45	0°♂		greatest brilliancy	1369 May 06 j 07:33	23°♂04'52	-2.2m
	1364 Jun 15 j 21:51	0°♂		min. Earth dist.	1369 May 14 j 11:03	20°♂16'02	0.49451 AU
asc. node	1364 Jun 27 j 10:13	7°♂58'37		direct	1369 Jun 13 j 03:59	14°♂35'18	
	1364 Jul 30 j 08:05	0°♂			1369 Aug 04 j 20:33	0°♂	
	1364 Sep 16 j 16:58	0°♂			1369 Sep 22 j 23:59	0°♂	
	1364 Nov 13 j 12:13	0°♂			1369 Nov 03 j 18:20	0°≈	
retrograde	1365 Jan 05 j 11:32	13°♂16'00			1369 Dec 13 j 19:07	0°♂	
opposition	1365 Feb 14 j 03:54	3°♂52'55	4°20'05		1370 Jan 23 j 01:08	0°♂	
greatest brilliancy	1365 Feb 14 j 11:02	3°♂45'51	-1.3m	asc. node	1370 Feb 17 j 07:04	18°♂23'37	
min. Earth dist.	1365 Feb 16 j 07:11	3°♂02'10	0.67168 AU		1370 Mar 05 j 12:48	0°♂	
	1365 Feb 24 j 05:07	30°♂♂			1370 Apr 17 j 18:15	0°♂	
direct	1365 Mar 27 j 10:52	23°♂53'17		evening set	1370 May 21 j 02:41	22°♂20'37	
	1365 Apr 30 j 16:11	0°♂			1370 Jun 01 j 17:48	0°♂	
	1365 Jul 03 j 10:13	0°♂					
desc. node	1365 Jul 15 j 20:33	7°♂18'19		conjunction	1370 Jul 09 j 13:01	24°♂30'49	1°04'32
	1365 Aug 20 j 14:07	0°♂		minimum elong	1370 Jul 09 j 12:08	24°♂29'25	1°04'32
	1365 Oct 02 j 13:48	0°♂		max. Earth dist.	1370 Jul 18 j 03:01	0°♂01'10	2.66041 AU
	1365 Nov 11 j 15:15	0°♂			1370 Jul 18 j 02:18	0°♂	
	1365 Dec 20 j 02:34	0°≈		morning rise	1370 Aug 24 j 14:08	23°♂53'50	
evening set	1366 Jan 25 j 03:20	28°≈26'49			1370 Sep 03 j 04:57	0°♂	
	1366 Jan 27 j 02:41	0°♂			1370 Oct 20 j 13:41	0°♂	
	1366 Mar 06 j 15:14	0°♂			1370 Dec 07 j 02:10	0°♂	
					1371 Jan 24 j 07:16	0°♂	
conjunction	1366 Apr 02 j 02:38	20°♂04'04	-0°27'15	desc. node	1371 Mar 07 j 17:22	25°♂14'37	
minimum elong	1366 Apr 02 j 04:44	20°♂08'01	0°27'14		1371 Mar 16 j 03:30	0°♂	
	1366 Apr 15 j 11:53	0°♂			1371 May 24 j 07:03	0°≈	
asc. node	1366 May 15 j 10:05	21°♂38'15		retrograde	1371 Jun 12 j 05:59	2°≈10'26	
max. Earth dist.	1366 May 18 j 14:56	23°♂54'23	2.47472 AU		1371 Jul 01 j 05:01	30°♂♂	
	1366 May 27 j 06:55	0°♂		opposition	1371 Jul 12 j 13:11	27°♂09'22	-6°28'16
morning rise	1366 Jun 03 j 03:30	4°♂46'36		greatest brilliancy	1371 Jul 13 j 06:13	26°♂57'48	-2.9m
	1366 Jul 10 j 08:06	0°♂		min. Earth dist.	1371 Jul 15 j 17:47	26°♂17'26	0.38128 AU
	1366 Aug 25 j 20:26	0°♂		direct	1371 Aug 12 j 14:07	21°♂46'58	
	1366 Oct 14 j 11:56	0°♂			1371 Sep 18 j 05:49	0°≈	
	1366 Dec 10 j 04:51	0°♂			1371 Nov 12 j 06:11	0°♂	
retrograde	1367 Feb 12 j 13:44	17°♂59'56			1371 Dec 28 j 00:31	0°♂	
opposition	1367 Mar 22 j 13:13	9°♂29'51	2°48'32	asc. node	1372 Jan 05 j 06:35	5°♂31'50	
greatest brilliancy	1367 Mar 23 j 04:15	9°♂15'30	-1.6m		1372 Feb 10 j 18:48	0°♂	
min. Earth dist.	1367 Mar 28 j 10:45	7°♂14'42	0.61145 AU		1372 Mar 27 j 04:34	0°♂	
	1367 Apr 24 j 21:25	30°♂♂			1372 May 12 j 14:34	0°♂	
direct	1367 May 02 j 14:46	29°♂36'15			1372 Jun 28 j 18:04	0°♂	
	1367 May 10 j 12:30	0°♂		evening set	1372 Jun 29 j 19:20	0°♂40'04	
desc. node	1367 Jun 02 j 19:42	5°♂05'34		max. Earth dist.	1372 Aug 09 j 05:48	26°♂20'38	2.67401 AU
	1367 Jul 25 j 09:31	0°♂					
	1367 Sep 09 j 20:40	0°♂		conjunction	1372 Aug 14 j 21:23	29°♂56'40	1°06'50
	1367 Oct 21 j 02:13	0°♂		minimum elong	1372 Aug 14 j 21:57	29°♂57'33	1°06'50
	1367 Nov 29 j 02:44	0°≈			1372 Aug 14 j 23:29	0°♂	
	1368 Jan 06 j 12:55	0°♂		morning rise	1372 Sep 28 j 06:45	28°♂28'53	
	1368 Feb 14 j 12:20	0°♂			1372 Sep 30 j 14:52	0°♂	
	1368 Mar 25 j 21:03	0°♂			1372 Nov 15 j 06:01	0°♂	
evening set	1368 Mar 31 j 18:59	4°♂17'08			1372 Dec 29 j 18:09	0°♂	
asc. node	1368 Apr 01 j 08:35	4°♂41'41		desc. node	1373 Jan 22 j 17:21	16°♂26'58	
	1368 May 07 j 03:22	0°♂			1373 Feb 11 j 06:34	0°♂	
					1373 Mar 26 j 04:03	0°≈	
conjunction	1368 May 27 j 14:39	14°♂02'04	0°33'02		1373 May 08 j 12:04	0°♂	
minimum elong	1368 May 27 j 13:09	13°♂59'32	0°33'01		1373 Jun 24 j 23:55	0°♂	
	1368 Jun 20 j 10:10	0°♂		retrograde	1373 Aug 24 j 18:49	20°♂34'34	
max. Earth dist.	1368 Jun 22 j 02:07	1°♂06'12	2.59236 AU	min. Earth dist.	1373 Sep 20 j 15:53	15°♂45'53	0.42268 AU
morning rise	1368 Jul 17 j 22:11	18°♂01'19		opposition	1373 Sep 28 j 08:22	13°♂16'51	-3°13'23
	1368 Aug 05 j 12:50	0°♂		greatest brilliancy	1373 Sep 27 j 13:10	13°♂32'25	-2.6m
	1368 Sep 22 j 04:50	0°♂		direct	1373 Oct 29 j 14:18	7°♂17'24	
	1368 Nov 10 j 15:12	0°♂		asc. node	1373 Nov 22 j 05:13	10°♂38'23	
	1369 Jan 02 j 20:21	0°♂			1374 Jan 08 j 03:17	0°♂	
	1369 Mar 27 j 06:15	0°♂			1374 Mar 02 j 20:36	0°♂	

	1374 Apr 21 j 20:51	0°☿			1379 Jan 17 j 12:33	0°♊	
	1374 Jun 09 j 18:58	0°♈			1379 Feb 24 j 15:02	0°♉	
	1374 Jul 27 j 17:52	0°♊	morning rise		1379 Mar 01 j 10:12	3°♉46'14	
evening set	1374 Aug 06 j 01:57	5°♊56'02			1379 Apr 04 j 02:36	0°♊	
max. Earth dist.	1374 Sep 02 j 09:22	23°♊30'48	2.63366 AU		1379 May 13 j 19:58	0°♊	
	1374 Sep 12 j 07:43	0°♊			1379 Jun 24 j 15:17	0°♊	
				asc. node	1379 Jul 15 j 03:09	14°♊00'47	
conjunction	1374 Sep 20 j 20:06	5°♊36'13	0°43'29		1379 Aug 08 j 11:56	0°♊	
minimum elong	1374 Sep 20 j 21:16	5°♊38'09	0°43'28		1379 Sep 27 j 14:26	0°♊	
	1374 Oct 27 j 04:12	0°♊			1379 Dec 14 j 05:39	0°♊	
morning rise	1374 Nov 05 j 19:42	6°♊37'00		retrograde	1379 Dec 23 j 22:27	0°♊34'01	
	1374 Dec 09 j 05:19	0°♊			1380 Jan 02 j 06:33	30°♊♈	
desc. node	1374 Dec 10 j 16:20	1°♊02'18		opposition	1380 Feb 01 j 22:12	20°♊56'49	4°32'03
	1375 Jan 19 j 15:45	0°♊		greatest brilliancy	1380 Feb 01 j 23:38	20°♊55'23	-1.3m
	1375 Feb 28 j 20:52	0°♊		min. Earth dist.	1380 Feb 02 j 12:51	20°♊42'12	0.67727 AU
	1375 Apr 09 j 12:03	0°♊		direct	1380 Mar 13 j 19:56	11°♊04'36	
	1375 May 19 j 13:41	0°♊			1380 May 19 j 01:04	0°♊	
	1375 Jun 30 j 20:31	0°♊			1380 Jul 13 j 00:58	0°♊	
	1375 Aug 19 j 10:00	0°♊		desc. node	1380 Aug 01 j 12:32	12°♊05'50	
asc. node	1375 Oct 10 j 03:37	16°♊26'43			1380 Aug 28 j 18:14	0°♊	
retrograde	1375 Oct 13 j 10:05	16°♊31'15			1380 Oct 10 j 07:56	0°♊	
min. Earth dist.	1375 Nov 14 j 07:12	9°♊35'30	0.55194 AU		1380 Nov 19 j 06:41	0°♊	
opposition	1375 Nov 21 j 04:04	6°♊56'04	1°56'22	evening set	1380 Dec 27 j 23:54	0°♊13'09	
greatest brilliancy	1375 Nov 20 j 15:15	7°♊08'29	-1.9m		1380 Dec 27 j 17:14	0°♊	
	1375 Dec 14 j 00:21	30°♊♈			1381 Feb 03 j 16:20	0°♊	
direct	1375 Dec 27 j 00:27	28°♊51'43					
	1376 Jan 09 j 17:18	0°♊		conjunction	1381 Mar 05 j 17:54	23°♊31'46	-0°50'38
	1376 Mar 26 j 03:26	0°♊		minimum elong	1381 Mar 05 j 21:04	23°♊37'54	0°50'36
	1376 May 18 j 23:32	0°♊			1381 Mar 14 j 02:58	0°♊	
	1376 Jul 07 j 18:50	0°♊			1381 Apr 22 j 20:54	0°♊	
	1376 Aug 23 j 22:03	0°♊		max. Earth dist.	1381 Apr 26 j 03:42	2°♊25'11	2.42083 AU
evening set	1376 Sep 12 j 16:48	13°♊05'12		morning rise	1381 May 11 j 21:48	13°♊53'39	
max. Earth dist.	1376 Sep 29 j 21:22	24°♊43'03	2.54240 AU	asc. node	1381 Jun 01 j 01:23	28°♊14'31	
	1376 Oct 07 j 13:57	0°♊			1381 Jun 03 j 13:32	0°♊	
desc. node	1376 Oct 27 j 15:01	14°♊00'19			1381 Jul 17 j 15:34	0°♊	
					1381 Sep 02 j 14:11	0°♊	
conjunction	1376 Oct 31 j 11:19	16°♊43'50	-0°02'23		1381 Oct 23 j 22:12	0°♊	
minimum elong	1376 Oct 31 j 11:12	16°♊43'37	0°02'23		1381 Dec 30 j 22:54	0°♊	
behind sun begin	1376 Oct 30 j 14:07	16°♊06'13		retrograde	1382 Jan 27 j 23:54	4°♊12'35	
behind sun end	1376 Nov 01 j 08:17	17°♊21'03			1382 Feb 22 j 18:49	30°♊♊	
	1376 Nov 18 j 22:45	0°♊		opposition	1382 Mar 07 j 18:59	25°♊18'26	3°35'27
morning rise	1376 Dec 23 j 00:49	25°♊11'22		greatest brilliancy	1382 Mar 08 j 08:43	25°♊05'05	-1.4m
	1376 Dec 29 j 10:03	0°♊		min. Earth dist.	1382 Mar 12 j 06:00	23°♊34'24	0.64267 AU
	1377 Feb 06 j 13:41	0°♊		direct	1382 Apr 18 j 03:51	15°♊17'16	
	1377 Mar 17 j 03:18	0°♊			1382 Jun 12 j 09:34	0°♊	
	1377 Apr 24 j 23:53	0°♊		desc. node	1382 Jun 19 j 11:09	3°♊20'21	
	1377 Jun 04 j 04:02	0°♊			1382 Aug 05 j 12:42	0°♊	
	1377 Jul 17 j 01:10	0°♊			1382 Sep 19 j 00:01	0°♊	
asc. node	1377 Aug 27 j 03:38	25°♊45'20			1382 Oct 29 j 14:06	0°♊	
	1377 Sep 03 j 15:15	0°♊			1382 Dec 07 j 07:13	0°♊	
retrograde	1377 Nov 19 j 10:12	26°♊28'17			1383 Jan 14 j 11:40	0°♊	
min. Earth dist.	1377 Dec 26 j 05:28	17°♊49'29	0.64577 AU		1383 Feb 22 j 05:11	0°♊	
opposition	1377 Dec 29 j 11:49	16°♊30'52	4°07'02	evening set	1383 Mar 08 j 18:57	11°♊03'01	
greatest brilliancy	1377 Dec 28 j 23:22	16°♊43'22	-1.4m		1383 Apr 03 j 07:33	0°♊	
direct	1378 Feb 06 j 12:35	7°♊15'54		asc. node	1383 Apr 19 j 00:52	11°♊24'03	
	1378 Apr 22 j 07:19	0°♊					
	1378 Jun 16 j 19:10	0°♊		conjunction	1383 May 08 j 18:52	25°♊25'40	0°12'19
	1378 Aug 04 j 15:58	0°♊		minimum elong	1383 May 08 j 18:07	25°♊24'21	0°12'19
desc. node	1378 Sep 14 j 13:41	27°♊08'07		behind sun begin	1383 May 08 j 02:44	24°♊57'22	
	1378 Sep 18 j 17:42	0°♊		behind sun end	1383 May 09 j 09:29	25°♊51'18	
evening set	1378 Oct 28 j 12:29	28°♊15'16			1383 May 15 j 07:47	0°♊	
	1378 Oct 30 j 21:46	0°♊		max. Earth dist.	1383 Jun 11 j 07:20	18°♊30'55	2.55155 AU
max. Earth dist.	1378 Nov 15 j 21:39	11°♊49'57	2.41597 AU		1383 Jun 28 j 10:41	0°♊	
	1378 Dec 09 j 21:44	0°♊		morning rise	1383 Jul 02 j 13:18	2°♊43'29	
					1383 Aug 13 j 14:27	0°♊	
conjunction	1378 Dec 24 j 18:46	11°♊28'02	-0°54'52		1383 Sep 30 j 18:34	0°♊	
minimum elong	1378 Dec 24 j 16:32	11°♊23'42	0°54'51		1383 Nov 20 j 20:29	0°♊	

	1384 Jan 19 j 18:01	0°♌		1389 Jan 23 j 03:33	0°♏	
retrograde	1384 Mar 11 j 10:55	12°♌27'39		1389 Mar 12 j 19:54	0°♐	
opposition	1384 Apr 16 j 14:36	4°♌46'47 0°54'50		1389 Apr 29 j 22:54	0°♑	
greatest brilliancy	1384 Apr 16 j 21:51	4°♌40'10 -1.9m		1389 Jun 17 j 00:02	0°♒	
min. Earth dist.	1384 Apr 24 j 08:41	1°♌57'10 0.54526 AU	evening set	1389 Jul 22 j 16:54	22°♒27'33	
	1384 Apr 30 j 02:03	30°♋♎		1389 Aug 03 j 14:09	0°♓	
desc. node	1384 May 06 j 10:33	28°♎08'20	max. Earth dist.	1389 Aug 23 j 17:10	12°♓52'05 2.65579 AU	
direct	1384 May 26 j 07:48	25°♎27'28				
	1384 Jun 22 j 16:51	0°♏	conjunction	1389 Sep 06 j 06:03	21°♓36'28 0°55'24	
	1384 Aug 21 j 18:16	0°♐	minimum elong	1389 Sep 06 j 07:09	21°♓38'14 0°55'24	
	1384 Oct 04 j 14:34	0°♑		1389 Sep 19 j 03:21	0°♎	
	1384 Nov 13 j 17:55	0°♒	morning rise	1389 Oct 21 j 04:11	21°♎12'24	
	1384 Dec 22 j 21:10	0°♋		1389 Nov 03 j 05:26	0°♏	
	1385 Jan 31 j 11:01	0°♌		1389 Dec 16 j 17:31	0°♐	
asc. node	1385 Mar 05 j 23:34	24°♌40'07	desc. node	1389 Dec 27 j 07:46	7°♐28'02	
	1385 Mar 13 j 09:05	0°♏		1390 Jan 27 j 18:53	0°♑	
	1385 Apr 25 j 03:02	0°♐		1390 Mar 09 j 17:38	0°♒	
evening set	1385 May 03 j 02:54	5°♐27'49		1390 Apr 19 j 05:04	0°♋	
	1385 Jun 08 j 18:10	0°♑		1390 May 30 j 11:42	0°♌	
				1390 Jul 14 j 14:42	0°♏	
conjunction	1385 Jun 23 j 20:33	9°♑54'16 0°56'01	retrograde	1390 Sep 26 j 02:48	27°♏34'01	
minimum elong	1385 Jun 23 j 19:11	9°♑52'03 0°56'00	min. Earth dist.	1390 Oct 25 j 19:07	21°♏28'38 0.50185 AU	
max. Earth dist.	1385 Jul 08 j 13:09	19°♑26'49 2.64021 AU	asc. node	1390 Oct 26 j 21:09	21°♏05'03	
	1385 Jul 24 j 22:33	0°♒	opposition	1390 Nov 02 j 16:32	18°♏33'31 0°21'12	
morning rise	1385 Aug 10 j 10:34	10°♒32'34	greatest brilliancy	1390 Nov 02 j 13:45	18°♏36'06 -2.2m	
	1385 Sep 10 j 03:56	0°♓	direct	1390 Dec 06 j 21:45	11°♏11'01	
	1385 Oct 28 j 02:30	0°♎		1391 Feb 09 j 06:30	0°♐	
	1385 Dec 16 j 01:01	0°♏		1391 Apr 06 j 22:34	0°♑	
	1386 Feb 05 j 17:37	0°♐		1391 May 28 j 03:14	0°♒	
desc. node	1386 Mar 24 j 10:08	23°♐01'32		1391 Jul 16 j 00:30	0°♓	
	1386 Apr 12 j 21:04	0°♑	evening set	1391 Aug 29 j 05:14	28°♓15'54	
retrograde	1386 May 11 j 21:58	4°♑38'12		1391 Aug 31 j 20:51	0°♎	
	1386 Jun 09 j 03:56	30°♋♐	max. Earth dist.	1391 Sep 18 j 21:39	11°♎55'44 2.58367 AU	
opposition	1386 Jun 12 j 15:13	28°♐58'39 -4°25'31				
greatest brilliancy	1386 Jun 13 j 16:49	28°♐39'29 -2.6m	conjunction	1391 Oct 15 j 07:41	29°♎50'01 0°17'42	
min. Earth dist.	1386 Jun 19 j 17:49	26°♐51'25 0.41557 AU	minimum elong	1391 Oct 15 j 08:22	29°♎51'11 0°17'42	
direct	1386 Jul 16 j 17:04	22°♐18'40		1391 Oct 15 j 13:30	0°♏	
	1386 Aug 20 j 17:11	0°♑	desc. node	1391 Nov 14 j 06:51	20°♏47'23	
	1386 Oct 13 j 19:00	0°♒		1391 Nov 27 j 03:34	0°♐	
	1386 Nov 26 j 13:24	0°♋	morning rise	1391 Dec 03 j 11:28	4°♐34'43	
	1387 Jan 07 j 22:01	0°♌		1392 Jan 06 j 22:18	0°♑	
asc. node	1387 Jan 21 j 21:40	9°♌50'55		1392 Feb 15 j 09:57	0°♒	
	1387 Feb 19 j 20:58	0°♏		1392 Mar 25 j 06:55	0°♋	
	1387 Apr 05 j 03:54	0°♐		1392 May 03 j 10:45	0°♌	
	1387 May 20 j 21:07	0°♑		1392 Jun 13 j 01:46	0°♏	
evening set	1387 Jun 15 j 16:38	16°♑37'13		1392 Jul 27 j 02:20	0°♐	
	1387 Jul 06 j 15:11	0°♒	asc. node	1392 Sep 12 j 19:27	27°♐10'46	
				1392 Sep 18 j 21:40	0°♑	
conjunction	1387 Aug 01 j 16:35	16°♒35'33 1°09'08	retrograde	1392 Nov 05 j 09:15	12°♑10'48	
minimum elong	1387 Aug 01 j 16:37	16°♒35'36 1°09'08	min. Earth dist.	1392 Dec 10 j 09:43	4°♑08'05 0.61592 AU	
max. Earth dist.	1387 Aug 01 j 10:21	16°♒25'37 2.67522 AU	greatest brilliancy	1392 Dec 14 j 12:01	2°♑30'03 -1.6m	
	1387 Aug 22 j 17:55	0°♓	opposition	1392 Dec 15 j 03:30	2°♑14'36 3°31'59	
morning rise	1387 Sep 15 j 08:17	15°♓04'24		1392 Dec 20 j 21:22	30°♋♐	
	1387 Oct 08 j 14:00	0°♎	direct	1393 Jan 22 j 02:06	23°♐22'27	
	1387 Nov 23 j 18:31	0°♏		1393 Feb 26 j 23:37	0°♑	
	1388 Jan 08 j 07:10	0°♐		1393 May 03 j 16:16	0°♒	
desc. node	1388 Feb 09 j 09:00	21°♐18'25		1393 Jun 25 j 01:14	0°♓	
	1388 Feb 22 j 10:54	0°♑		1393 Aug 12 j 01:12	0°♎	
	1388 Apr 08 j 00:48	0°♒		1393 Sep 25 j 21:34	0°♏	
	1388 May 27 j 05:41	0°♋	desc. node	1393 Oct 01 j 05:31	3°♏41'41	
retrograde	1388 Jul 30 j 02:13	21°♋29'19	evening set	1393 Oct 09 j 07:27	9°♏20'51	
min. Earth dist.	1388 Aug 26 j 01:58	17°♋01'36 0.38484 AU	max. Earth dist.	1393 Oct 23 j 23:35	19°♏46'09 2.46718 AU	
opposition	1388 Aug 30 j 22:04	15°♋38'57 -5°43'58		1393 Nov 07 j 02:47	0°♐	
greatest brilliancy	1388 Aug 30 j 03:07	15°♋52'30 -2.9m				
direct	1388 Sep 29 j 17:29	10°♋30'21	conjunction	1393 Dec 01 j 10:00	18°♐00'06 -0°36'19	
	1388 Dec 01 j 08:47	0°♌	minimum elong	1393 Dec 01 j 08:11	17°♐56'41 0°36'17	
asc. node	1388 Dec 08 j 21:31	3°♌55'37		1393 Dec 17 j 06:28	0°♑	

	1394 Jan 25 j 01:30	0°♊		greatest brilliancy	1399 Apr 01 j 02:29	18°♑19'15	-1.7m
morning rise	1394 Jan 31 j 00:15	4°♊39'19		min. Earth dist.	1399 Apr 07 j 03:19	16°♑02'40	0.59036 AU
	1394 Mar 04 j 07:14	0°♋		direct	1399 May 11 j 05:36	8°♑47'03	
	1394 Apr 11 j 20:47	0°♌		desc. node	1399 May 24 j 02:33	9°♑49'22	
	1394 May 21 j 15:58	0°♍			1399 Jul 16 j 17:41	0°♎	
	1394 Jul 02 j 16:13	0°♎			1399 Sep 03 j 12:58	0°♏	
asc. node	1394 Jul 31 j 18:53	19°♎30'06			1399 Oct 15 j 10:38	0°♐	
	1394 Aug 17 j 07:25	0°♑			1399 Nov 23 j 18:31	0°♑	
	1394 Oct 09 j 20:21	0°♒			1400 Jan 01 j 09:06	0°♋	
retrograde	1394 Dec 10 j 14:30	17°♒47'55			1400 Feb 09 j 11:58	0°♌	
opposition	1395 Jan 19 j 18:12	7°♒59'41 4°32'17			1400 Mar 20 j 23:53	0°♍	
min. Earth dist.	1395 Jan 18 j 20:19	8°♒21'37 0.67283 AU		asc. node	1400 Mar 22 j 15:17	1°♋11'20	
greatest brilliancy	1395 Jan 19 j 13:44	8°♒04'10 -1.3m		evening set	1400 Apr 13 j 04:43	16°♋36'10	
	1395 Feb 12 j 22:22	30°♋♑			1400 May 02 j 08:46	0°♎	
direct	1395 Mar 01 j 02:06	28°♑18'51					
	1395 Mar 18 j 09:39	0°♒		conjunction	1400 Jun 06 j 23:55	24°♎11'54 0°42'53	
	1395 Jun 01 j 02:25	0°♎		minimum elong	1400 Jun 06 j 22:19	24°♎09'15 0°42'52	
	1395 Jul 22 j 15:09	0°♑			1400 Jun 15 j 17:20	0°♑	
desc. node	1395 Aug 19 j 04:07	17°♑41'15		max. Earth dist.	1400 Jun 28 j 09:47	8°♑21'42 2.61165 AU	
	1395 Sep 06 j 11:47	0°♎		morning rise	1400 Jul 26 j 18:18	26°♑45'43	
	1395 Oct 18 j 19:59	0°♏			1400 Jul 31 j 19:25	0°♒	
	1395 Nov 27 j 18:15	0°♐			1400 Sep 17 j 06:14	0°♎	
evening set	1395 Dec 02 j 18:11	3°♐50'52			1400 Nov 05 j 00:33	0°♑	
	1396 Jan 05 j 05:49	0°♑			1400 Dec 26 j 04:28	0°♎	
					1401 Feb 24 j 00:53	0°♏	
conjunction	1396 Feb 05 j 14:57	24°♑47'11 -1°03'52		desc. node	1401 Apr 10 j 00:58	11°♏44'36	
minimum elong	1396 Feb 05 j 16:06	24°♑49'29 1°03'52		retrograde	1401 Apr 14 j 18:10	11°♏52'45	
	1396 Feb 12 j 05:30	0°♋		opposition	1401 May 18 j 11:31	5°♏20'14 -2°02'21	
max. Earth dist.	1396 Mar 07 j 10:53	18°♋59'52 2.37522 AU		greatest brilliancy	1401 May 19 j 02:18	5°♏07'57 -2.3m	
	1396 Mar 21 j 15:33	0°♌		min. Earth dist.	1401 May 26 j 21:24	2°♏33'31 0.46534 AU	
morning rise	1396 Apr 16 j 00:22	19°♌19'18			1401 Jun 04 j 15:27	30°♎♎	
	1396 Apr 30 j 08:03	0°♍		direct	1401 Jun 24 j 08:26	27°♎20'22	
	1396 Jun 10 j 23:39	0°♎			1401 Jul 14 j 11:49	0°♏	
asc. node	1396 Jun 17 j 18:22	4°♎43'31			1401 Sep 14 j 03:27	0°♐	
	1396 Jul 25 j 04:53	0°♑			1401 Oct 27 j 19:03	0°♑	
	1396 Sep 10 j 20:31	0°♒			1401 Dec 07 j 16:09	0°♋	
	1396 Nov 04 j 05:35	0°♎			1402 Jan 17 j 10:49	0°♌	
retrograde	1397 Jan 13 j 11:16	21°♎04'14		asc. node	1402 Feb 07 j 15:03	15°♌18'09	
opposition	1397 Feb 21 j 21:01	11°♎50'19 4°07'20			1402 Feb 28 j 07:50	0°♍	
greatest brilliancy	1397 Feb 22 j 06:54	11°♎40'34 -1.3m			1402 Apr 12 j 19:58	0°♎	
min. Earth dist.	1397 Feb 24 j 20:09	10°♎40'15 0.66422 AU			1402 May 28 j 00:15	0°♑	
direct	1397 Apr 04 j 06:01	1°♎48'34		evening set	1402 May 30 j 17:27	1°♑46'26	
	1397 Jun 26 j 08:14	0°♑			1402 Jul 13 j 11:00	0°♒	
desc. node	1397 Jul 06 j 03:46	5°♑28'30					
	1397 Aug 14 j 23:44	0°♎		conjunction	1402 Jul 18 j 03:40	3°♒00'05 1°07'26	
	1397 Sep 27 j 10:06	0°♏		minimum elong	1402 Jul 18 j 03:07	2°♒59'13 1°07'26	
	1397 Nov 06 j 15:23	0°♐		max. Earth dist.	1402 Jul 23 j 12:45	6°♒26'11 2.66796 AU	
	1397 Dec 15 j 04:17	0°♑			1402 Aug 29 j 13:00	0°♎	
	1398 Jan 22 j 05:12	0°♋		morning rise	1402 Sep 01 j 13:36	1°♎55'25	
evening set	1398 Feb 10 j 02:40	14°♋47'39			1402 Oct 15 j 16:24	0°♑	
	1398 Mar 01 j 18:36	0°♌			1402 Dec 01 j 15:22	0°♎	
	1398 Apr 10 j 16:22	0°♍			1403 Jan 17 j 15:48	0°♏	
				desc. node	1403 Feb 26 j 00:22	24°♏42'14	
conjunction	1398 Apr 16 j 07:22	4°♍07'25 -0°12'20			1403 Mar 06 j 15:22	0°♐	
minimum elong	1398 Apr 16 j 08:17	4°♍09'06 0°12'20			1403 Apr 28 j 00:41	0°♑	
behind sun begin	1398 Apr 15 j 15:33	3°♍38'30		retrograde	1403 Jun 30 j 15:42	19°♑54'06	
behind sun end	1398 Apr 17 j 01:02	4°♍39'40		opposition	1403 Jul 30 j 19:24	14°♑54'45 -6°52'55	
asc. node	1398 May 05 j 15:55	18°♍06'04		greatest brilliancy	1403 Jul 30 j 22:29	14°♑52'43 -2.9m	
	1398 May 22 j 12:07	0°♎		min. Earth dist.	1403 Jul 31 j 00:02	14°♑51'42 0.37362 AU	
max. Earth dist.	1398 May 28 j 09:24	4°♎06'05 2.50387 AU		direct	1403 Aug 29 j 14:10	9°♑56'29	
morning rise	1398 Jun 14 j 11:40	15°♎51'05			1403 Oct 30 j 18:22	0°♋	
	1398 Jul 05 j 12:44	0°♑			1403 Dec 20 j 01:00	0°♌	
	1398 Aug 20 j 20:07	0°♒		asc. node	1403 Dec 26 j 13:33	4°♌09'40	
	1398 Oct 08 j 18:51	0°♎			1404 Feb 04 j 11:17	0°♍	
	1398 Dec 01 j 15:27	0°♑			1404 Mar 21 j 17:33	0°♎	
retrograde	1399 Feb 22 j 03:07	26°♑46'51			1404 May 07 j 15:17	0°♑	
opposition	1399 Mar 31 j 12:40	18°♑32'16 2°12'57			1404 Jun 24 j 01:04	0°♒	

evening set	1404 Jul 08 j 05:46	8°♏58'21			1409 Mar 12 j 02:03	0°♐	
	1404 Aug 10 j 09:00	0°♐			1409 Apr 19 j 19:10	0°♐	
max. Earth dist.	1404 Aug 14 j 12:27	2°♐38'38	2.66972 AU		1409 May 29 j 18:37	0°♐	
					1409 Jul 11 j 04:55	0°♐	
conjunction	1404 Aug 23 j 00:29	8°♐04'44	1°03'41	asc. node	1409 Aug 17 j 10:22	24°♐05'52	
minimum elong	1404 Aug 23 j 01:17	8°♐06'00	1°03'41		1409 Aug 27 j 06:18	0°♐	
	1404 Sep 25 j 23:22	0°♐			1409 Oct 29 j 14:35	0°♐	
morning rise	1404 Oct 06 j 11:01	6°♐51'06		retrograde	1409 Nov 27 j 05:42	4°♐41'50	
	1404 Nov 10 j 09:29	0°♐			1409 Dec 23 j 16:13	30°♐	
	1404 Dec 24 j 12:21	0°♐		min. Earth dist.	1410 Jan 03 j 22:40	25°♐45'09	0.65830 AU
desc. node	1405 Jan 12 j 23:18	13°♐30'21		opposition	1410 Jan 06 j 09:10	24°♐46'23	4°20'15
	1405 Feb 05 j 10:21	0°♐		greatest brilliancy	1410 Jan 05 j 23:14	24°♐56'23	-1.4m
	1405 Mar 19 j 11:22	0°♐		direct	1410 Feb 14 j 22:20	15°♐21'06	
	1405 Apr 30 j 09:39	0°♐			1410 Apr 13 j 02:38	0°♐	
	1405 Jun 13 j 07:39	0°♐			1410 Jun 10 j 22:36	0°♐	
	1405 Aug 08 j 23:03	0°♐			1410 Jul 30 j 14:47	0°♐	
retrograde	1405 Sep 06 j 10:20	5°♐22'24		desc. node	1410 Sep 04 j 20:32	23°♐47'18	
min. Earth dist.	1405 Oct 04 j 00:53	0°♐09'24	0.44957 AU		1410 Sep 13 j 23:05	0°♐	
	1405 Oct 04 j 12:10	30°♐			1410 Oct 26 j 05:07	0°♐	
opposition	1405 Oct 12 j 05:41	27°♐21'06	-1°47'04	evening set	1410 Nov 09 j 09:18	10°♐28'29	
greatest brilliancy	1405 Oct 11 j 17:49	27°♐31'17	-2.5m	max. Earth dist.	1410 Dec 04 j 20:15	29°♐43'51	2.39043 AU
asc. node	1405 Nov 12 j 12:20	20°♐50'49			1410 Dec 05 j 04:41	0°♐	
direct	1405 Nov 13 j 14:22	20°♐50'21					
	1405 Dec 24 j 21:49	0°♐		conjunction	1411 Jan 08 j 08:55	26°♐33'03	-1°01'53
	1406 Feb 23 j 13:53	0°♐		minimum elong	1411 Jan 08 j 07:18	26°♐29'54	1°01'53
	1406 Apr 16 j 05:17	0°♐			1411 Jan 12 j 18:18	0°♐	
	1406 Jun 04 j 19:20	0°♐			1411 Feb 19 j 19:20	0°♐	
	1406 Jul 23 j 01:21	0°♐		morning rise	1411 Mar 18 j 15:30	21°♐01'42	
evening set	1406 Aug 14 j 09:36	14°♐13'19			1411 Mar 30 j 05:26	0°♐	
	1406 Sep 07 j 17:26	0°♐			1411 May 08 j 21:18	0°♐	
max. Earth dist.	1406 Sep 08 j 05:03	0°♐19'02	2.61780 AU		1411 Jun 19 j 13:32	0°♐	
				asc. node	1411 Jul 05 j 09:16	10°♐55'11	
conjunction	1406 Sep 29 j 11:58	14°♐25'05	0°34'56		1411 Aug 03 j 01:41	0°♐	
minimum elong	1406 Sep 29 j 13:03	14°♐26'54	0°34'55		1411 Sep 20 j 22:29	0°♐	
	1406 Oct 22 j 12:31	0°♐			1411 Nov 21 j 07:09	0°♐	
morning rise	1406 Nov 15 j 09:10	16°♐31'59		retrograde	1411 Dec 31 j 16:34	8°♐19'12	
desc. node	1406 Nov 30 j 22:10	27°♐30'57			1412 Feb 06 j 12:58	30°♐	
	1406 Dec 04 j 09:43	0°♐		opposition	1412 Feb 09 j 12:26	28°♐49'20	4°26'21
	1407 Jan 14 j 14:16	0°♐		greatest brilliancy	1412 Feb 09 j 17:04	28°♐44'43	-1.3m
	1407 Feb 23 j 12:42	0°♐		min. Earth dist.	1412 Feb 10 j 23:05	28°♐14'53	0.67550 AU
	1407 Apr 03 j 20:23	0°♐		direct	1412 Mar 21 j 15:37	18°♐52'35	
	1407 May 13 j 12:00	0°♐			1412 May 08 j 19:53	0°♐	
	1407 Jun 23 j 22:53	0°♐			1412 Jul 06 j 22:37	0°♐	
	1407 Aug 09 j 09:35	0°♐		desc. node	1412 Jul 22 j 18:56	9°♐33'12	
asc. node	1407 Sep 30 j 12:03	23°♐30'45			1412 Aug 23 j 12:08	0°♐	
retrograde	1407 Oct 22 j 11:31	26°♐36'04			1412 Oct 05 j 08:48	0°♐	
min. Earth dist.	1407 Nov 24 j 12:35	19°♐14'49	0.57689 AU		1412 Nov 14 j 09:55	0°♐	
opposition	1407 Nov 30 j 16:07	16°♐49'55	2°38'07		1412 Dec 22 j 21:21	0°♐	
greatest brilliancy	1407 Nov 30 j 00:50	17°♐04'57	-1.8m	evening set	1413 Jan 12 j 16:58	16°♐26'50	
direct	1408 Jan 06 j 07:30	8°♐26'37			1413 Jan 29 j 20:52	0°♐	
	1408 Mar 17 j 19:57	0°♐			1413 Mar 09 j 07:46	0°♐	
	1408 May 13 j 05:23	0°♐					
	1408 Jul 02 j 19:10	0°♐		conjunction	1413 Mar 21 j 12:11	9°♐19'20	-0°38'02
	1408 Aug 19 j 05:28	0°♐		minimum elong	1413 Mar 21 j 15:02	9°♐24'46	0°38'00
evening set	1408 Sep 21 j 22:45	22°♐27'07			1413 Apr 18 j 02:04	0°♐	
	1408 Oct 02 j 23:07	0°♐		max. Earth dist.	1413 May 10 j 02:19	16°♐02'07	2.45053 AU
max. Earth dist.	1408 Oct 07 j 15:53	3°♐15'06	2.51678 AU	asc. node	1413 May 22 j 09:08	24°♐47'40	
desc. node	1408 Oct 17 j 21:47	10°♐24'41		morning rise	1413 May 24 j 21:55	26°♐35'03	
					1413 May 29 j 18:27	0°♐	
conjunction	1408 Nov 11 j 00:20	27°♐37'22	-0°14'43		1413 Jul 12 j 18:12	0°♐	
minimum elong	1408 Nov 10 j 23:38	27°♐36'05	0°14'43		1413 Aug 28 j 08:37	0°♐	
behind sun begin	1408 Nov 10 j 14:06	27°♐18'51			1413 Oct 17 j 12:52	0°♐	
behind sun end	1408 Nov 11 j 09:09	27°♐53'19			1413 Dec 16 j 01:37	0°♐	
	1408 Nov 14 j 06:56	0°♐		retrograde	1414 Feb 05 j 18:00	12°♐27'52	
	1408 Dec 24 j 15:25	0°♐		opposition	1414 Mar 16 j 02:35	3°♐46'18	3°09'57
morning rise	1409 Jan 05 j 02:13	8°♐43'17		greatest brilliancy	1414 Mar 16 j 17:19	3°♐32'05	-1.5m
	1409 Feb 01 j 15:45	0°♐		min. Earth dist.	1414 Mar 21 j 08:30	1°♐44'52	0.62667 AU

	1414 Mar 26 j 00:49	30° \mathbb{R} \mathbb{M}		conjunction	1419 Aug 09 j 20:23	24° \mathcal{O} 42'57	1°08'15
direct	1414 Apr 26 j 07:54	23° \mathbb{M} 48'13		minimum elong	1419 Aug 09 j 20:44	24° \mathcal{O} 43'29	1°08'15
	1414 May 29 j 22:42	0° \mathcal{E}			1419 Aug 18 j 03:26	0° \mathbb{M}	
desc. node	1414 Jun 09 j 18:03	4° \mathcal{E} 01'51		morning rise	1419 Sep 23 j 07:04	23° \mathbb{M} 09'54	
	1414 Jul 29 j 18:01	0° \mathbb{M}			1419 Oct 03 j 21:04	0° \mathcal{E}	
	1414 Sep 13 j 07:31	0° \mathcal{A}			1419 Nov 18 j 18:12	0° \mathbb{M}	
	1414 Oct 24 j 06:31	0° \mathcal{B}			1420 Jan 02 j 16:47	0° \mathcal{A}	
	1414 Dec 02 j 03:55	0° \approx		desc. node	1420 Jan 30 j 15:39	18° \mathcal{A} 56'25	
	1415 Jan 09 j 11:09	0° \mathcal{H}			1420 Feb 15 j 20:38	0° \mathcal{B}	
evening set	1415 Feb 17 j 06:58	0° \mathcal{Y}			1420 Mar 30 j 17:21	0° \approx	
	1415 Mar 22 j 17:08	25° \mathcal{Y} 02'07			1420 May 14 j 18:07	0° \mathcal{H}	
	1415 Mar 29 j 11:44	0° \mathcal{B}			1420 Jul 07 j 14:25	0° \mathcal{Y}	
asc. node	1415 Apr 09 j 07:55	7° \mathcal{B} 52'00		retrograde	1420 Aug 14 j 03:58	8° \mathcal{Y} 51'20	
	1415 May 10 j 13:56	0° \mathbb{I}		min. Earth dist.	1420 Sep 09 j 18:41	4° \mathcal{Y} 17'15	0.40342 AU
				opposition	1420 Sep 16 j 13:10	2° \mathcal{Y} 13'03	-4°21'40
conjunction	1415 May 20 j 08:14	6° \mathbb{I} 45'17	0°24'48	greatest brilliancy	1420 Sep 15 j 15:21	2° \mathcal{Y} 29'47	-2.7m
minimum elong	1415 May 20 j 06:56	6° \mathbb{I} 43'04	0°24'47		1420 Sep 24 j 03:46	30° \mathcal{R} \mathcal{H}	
max. Earth dist.	1415 Jun 18 j 08:11	26° \mathbb{I} 24'30	2.57504 AU	direct	1420 Oct 17 j 00:07	26° \mathcal{H} 38'26	
	1415 Jun 23 j 17:37	0° \mathcal{E}			1420 Nov 09 j 13:13	0° \mathcal{Y}	
morning rise	1415 Jul 12 j 01:58	12° \mathcal{E} 05'23		asc. node	1420 Nov 29 j 04:42	6° \mathcal{Y} 47'31	
	1415 Aug 08 j 19:20	0° \mathcal{O}			1421 Jan 14 j 13:14	0° \mathcal{B}	
	1415 Sep 25 j 15:04	0° \mathbb{M}			1421 Mar 06 j 13:54	0° \mathbb{I}	
	1415 Nov 14 j 15:07	0° \mathcal{E}			1421 Apr 24 j 15:44	0° \mathcal{E}	
	1416 Jan 08 j 20:43	0° \mathbb{M}			1421 Jun 12 j 03:49	0° \mathcal{O}	
retrograde	1416 Mar 22 j 21:46	22° \mathbb{M} 40'31			1421 Jul 29 j 23:03	0° \mathbb{M}	
desc. node	1416 Apr 26 j 16:56	15° \mathbb{M} 33'34		evening set	1421 Jul 30 j 22:02	0° \mathbb{M} 36'28	
opposition	1416 Apr 27 j 06:48	15° \mathbb{M} 21'15	-0°01'41	max. Earth dist.	1421 Aug 29 j 05:44	19° \mathbb{M} 23'13	2.64466 AU
greatest brilliancy	1417 Sep 18 j 22:42	8° \mathbb{M} 33'02	1.8m				
min. Earth dist.	1416 May 05 j 11:35	12° \mathbb{M} 26'41	0.51788 AU	conjunction	1421 Sep 14 j 12:33	29° \mathbb{M} 58'44	0°48'53
direct	1416 Jun 05 j 04:35	6° \mathbb{M} 23'43		minimum elong	1421 Sep 14 j 13:42	0° \mathcal{E} 00'38	0°48'53
	1416 Aug 12 j 13:24	0° \mathcal{A}			1421 Sep 14 j 13:19	0° \mathcal{E}	
	1416 Sep 27 j 18:25	0° \mathcal{B}		morning rise	1421 Oct 29 j 22:44	0° \mathbb{M} 16'25	
	1416 Nov 07 j 16:54	0° \approx			1421 Oct 29 j 13:05	0° \mathbb{M}	
	1416 Dec 17 j 06:40	0° \mathcal{H}			1421 Dec 11 j 19:52	0° \mathcal{A}	
	1417 Jan 26 j 03:48	0° \mathcal{Y}		desc. node	1421 Dec 17 j 14:56	4° \mathcal{A} 06'16	
asc. node	1417 Feb 24 j 06:27	21° \mathcal{Y} 20'15			1422 Jan 22 j 13:12	0° \mathcal{B}	
	1417 Mar 08 j 07:51	0° \mathcal{B}			1422 Mar 04 j 01:55	0° \approx	
	1417 Apr 20 j 06:35	0° \mathbb{I}			1422 Apr 13 j 00:57	0° \mathcal{H}	
evening set	1417 May 13 j 13:52	15° \mathbb{I} 45'23			1422 May 23 j 12:07	0° \mathcal{Y}	
	1417 Jun 04 j 01:08	0° \mathcal{E}			1422 Jul 05 j 14:55	0° \mathcal{B}	
					1422 Aug 28 j 08:39	0° \mathbb{I}	
conjunction	1417 Jul 02 j 22:51	18° \mathcal{E} 50'34	1°01'31	retrograde	1422 Oct 06 j 05:49	9° \mathbb{I} 08'45	
minimum elong	1417 Jul 02 j 21:46	18° \mathcal{E} 48'47	1°01'29	asc. node	1422 Oct 17 j 03:00	8° \mathbb{I} 15'57	
max. Earth dist.	1417 Jul 14 j 03:27	26° \mathcal{E} 03'26	2.65243 AU	min. Earth dist.	1422 Nov 06 j 03:44	2° \mathbb{I} 34'34	0.53019 AU
	1417 Jul 20 j 06:48	0° \mathcal{O}			1422 Nov 12 j 22:05	30° \mathcal{R} \mathcal{B}	
morning rise	1417 Aug 18 j 14:34	18° \mathcal{O} 42'29		opposition	1422 Nov 13 j 12:37	29° \mathcal{B} 46'07	1°20'05
	1417 Sep 05 j 10:05	0° \mathbb{M}		greatest brilliancy	1422 Nov 13 j 02:56	29° \mathcal{B} 55'22	-2.0m
	1417 Oct 23 j 00:08	0° \mathcal{E}		direct	1422 Dec 18 j 15:41	21° \mathcal{B} 59'16	
	1417 Dec 10 j 01:35	0° \mathbb{M}			1423 Jan 26 j 19:02	0° \mathbb{I}	
	1418 Jan 28 j 12:08	0° \mathcal{A}			1423 Mar 31 j 04:09	0° \mathcal{E}	
desc. node	1418 Mar 14 j 15:29	25° \mathcal{A} 17'22			1423 May 22 j 18:16	0° \mathcal{O}	
	1418 Mar 23 j 23:02	0° \mathcal{B}			1423 Jul 11 j 04:16	0° \mathbb{M}	
retrograde	1418 May 29 j 03:34	20° \mathcal{B} 00'10			1423 Aug 27 j 05:27	0° \mathcal{E}	
opposition	1418 Jun 28 j 22:02	14° \mathcal{B} 45'41	-5°42'48	evening set	1423 Sep 06 j 22:51	7° \mathcal{E} 03'19	
greatest brilliancy	1418 Jun 29 j 22:13	14° \mathcal{B} 28'35	-2.8m	max. Earth dist.	1423 Sep 25 j 16:20	19° \mathcal{E} 34'57	2.56176 AU
min. Earth dist.	1418 Jul 04 j 03:58	13° \mathcal{B} 16'51	0.39390 AU		1423 Oct 10 j 22:44	0° \mathbb{M}	
direct	1418 Jul 31 j 06:42	8° \mathcal{B} 51'36					
	1418 Oct 01 j 18:19	0° \approx		conjunction	1423 Oct 24 j 21:02	9° \mathbb{M} 40'00	0°06'28
	1418 Nov 18 j 11:16	0° \mathcal{H}		minimum elong	1423 Oct 24 j 21:19	9° \mathbb{M} 40'29	0°06'28
	1419 Jan 01 j 08:38	0° \mathcal{Y}		behind sun begin	1423 Oct 24 j 02:03	9° \mathbb{M} 06'50	
asc. node	1419 Jan 12 j 05:53	7° \mathcal{Y} 29'42		behind sun end	1423 Oct 25 j 16:35	10° \mathbb{M} 14'11	
	1419 Feb 14 j 03:54	0° \mathcal{B}		desc. node	1423 Nov 04 j 13:20	17° \mathbb{M} 11'12	
	1419 Mar 30 j 23:32	0° \mathbb{I}			1423 Nov 22 j 11:01	0° \mathcal{A}	
	1419 May 16 j 00:45	0° \mathcal{E}		morning rise	1423 Dec 14 j 17:58	16° \mathcal{A} 18'21	
evening set	1419 Jun 24 j 09:55	25° \mathcal{E} 11'33			1424 Jan 02 j 02:22	0° \mathcal{B}	
	1419 Jul 01 j 23:16	0° \mathcal{O}			1424 Feb 10 j 09:58	0° \approx	
max. Earth dist.	1419 Aug 06 j 15:19	22° \mathcal{O} 40'20	2.67559 AU		1424 Mar 20 j 02:48	0° \mathcal{H}	

	1424 Apr 28 j 01:40	0°♄			1429 Dec 10 j 05:17	0°♁		
	1424 Jun 07 j 08:39	0°♄			1430 Jan 17 j 07:58	0°♄		
	1424 Jul 20 j 13:17	0°♄			1430 Feb 24 j 22:45	0°♄		
asc. node	1424 Sep 03 j 02:59	27°♄06'19		evening set	1430 Feb 25 j 10:35	0°♄22'39		
	1424 Sep 08 j 12:53	0°♄			1430 Apr 05 j 21:47	0°♄		
retrograde	1424 Nov 13 j 12:37	20°♄57'00		asc. node	1430 Apr 25 j 23:53	14°♄34'51		
min. Earth dist.	1424 Dec 19 j 12:57	12°♄34'03	0.63355 AU					
opposition	1424 Dec 23 j 11:45	10°♄59'06	3°54'36	conjunction	1430 Apr 29 j 09:24	17°♄00'43	0°02'11	
greatest brilliancy	1424 Dec 22 j 21:32	11°♄13'20	-1.5m	minimum elong	1430 Apr 29 j 09:13	17°♄00'24	0°02'10	
direct	1425 Jan 31 j 01:18	1°♄53'49		behind sun begin	1430 Apr 28 j 08:27	16°♄16'10		
	1425 Apr 26 j 13:45	0°♄		behind sun end	1430 Apr 30 j 09:58	17°♄44'34		
	1425 Jun 19 j 15:18	0°♄			1430 May 17 j 18:36	0°♄		
	1425 Aug 07 j 04:07	0°♄		max. Earth dist.	1430 Jun 05 j 19:53	13°♄10'12	2.53094 AU	
desc. node	1425 Sep 21 j 11:58	0°♄12'26		morning rise	1430 Jun 25 j 00:20	26°♄08'53		
	1425 Sep 21 j 04:46	0°♄			1430 Jun 30 j 18:53	0°♄		
evening set	1425 Oct 19 j 22:30	20°♄13'11			1430 Aug 15 j 22:40	0°♄		
	1425 Nov 02 j 10:36	0°♄			1430 Oct 03 j 08:38	0°♄		
max. Earth dist.	1425 Nov 04 j 17:48	1°♄40'59	2.43864 AU		1430 Nov 24 j 08:21	0°♄		
	1425 Dec 12 j 13:00	0°♄			1431 Jan 29 j 03:54	0°♄		
				retrograde	1431 Mar 04 j 06:52	5°♄59'21		
conjunction	1425 Dec 14 j 04:49	1°♄16'06	-0°47'35		1431 Apr 04 j 14:49	30°♄		
minimum elong	1425 Dec 14 j 02:35	1°♄11'51	0°47'33	opposition	1431 Apr 10 j 00:41	28°♄02'28	1°30'32	
	1426 Jan 20 j 06:06	0°♄		greatest brilliancy	1431 Apr 10 j 11:29	27°♄52'27	-1.8m	
morning rise	1426 Feb 16 j 05:23	21°♄11'51		min. Earth dist.	1431 Apr 17 j 07:07	25°♄20'44	0.56627 AU	
	1426 Feb 27 j 10:03	0°♄		desc. node	1431 May 14 j 08:34	18°♄43'55		
	1426 Apr 06 j 21:52	0°♄		direct	1431 May 20 j 05:37	18°♄29'50		
	1426 May 16 j 14:51	0°♄			1431 Jul 05 j 06:37	0°♄		
	1426 Jun 27 j 10:29	0°♄			1431 Aug 27 j 12:45	0°♄		
asc. node	1426 Jul 22 j 02:41	16°♄45'58			1431 Oct 09 j 10:36	0°♄		
	1426 Aug 11 j 11:36	0°♄			1431 Nov 18 j 04:42	0°♄		
	1426 Oct 01 j 13:33	0°♄			1431 Dec 27 j 01:45	0°♄		
retrograde	1426 Dec 18 j 06:27	25°♄36'50			1432 Feb 04 j 09:38	0°♄		
opposition	1427 Jan 27 j 08:09	15°♄54'11	4°33'31	asc. node	1432 Mar 12 j 23:10	27°♄45'01		
greatest brilliancy	1427 Jan 27 j 06:54	15°♄55'26	-1.3m		1432 Mar 16 j 01:50	0°♄		
min. Earth dist.	1427 Jan 27 j 06:01	15°♄56'18	0.67654 AU	evening set	1432 Apr 24 j 18:48	28°♄03'20		
direct	1427 Mar 09 j 00:08	6°♄06'41			1432 Apr 27 j 14:22	0°♄		
	1427 May 24 j 16:26	0°♄			1432 Jun 11 j 01:10	0°♄		
	1427 Jul 17 j 02:10	0°♄						
desc. node	1427 Aug 09 j 10:50	14°♄43'11		conjunction	1432 Jun 16 j 18:53	3°♄47'14	0°51'03	
	1427 Sep 01 j 11:42	0°♄		minimum elong	1432 Jun 16 j 17:23	3°♄44'45	0°51'02	
	1427 Oct 14 j 00:25	0°♄		max. Earth dist.	1432 Jul 04 j 08:32	15°♄17'04	2.62843 AU	
	1427 Nov 22 j 23:46	0°♄			1432 Jul 27 j 03:27	0°♄		
evening set	1427 Dec 17 j 04:40	18°♄47'10		morning rise	1432 Aug 04 j 06:02	5°♄11'27		
	1427 Dec 31 j 11:06	0°♄			1432 Sep 12 j 10:21	0°♄		
	1428 Feb 07 j 10:19	0°♄			1432 Oct 30 j 16:09	0°♄		
					1432 Dec 19 j 10:02	0°♄		
conjunction	1428 Feb 22 j 01:49	11°♄31'16	-0°58'03		1433 Feb 11 j 12:41	0°♄		
minimum elong	1428 Feb 22 j 04:29	11°♄36'29	0°58'02	desc. node	1433 Mar 31 j 08:05	20°♄01'57		
	1428 Mar 16 j 19:57	0°♄		retrograde	1433 Apr 29 j 11:40	24°♄39'36		
max. Earth dist.	1428 Apr 11 j 08:29	19°♄26'35	2.39779 AU	opposition	1433 Jun 01 j 02:31	18°♄36'27	-3°22'16	
	1428 Apr 25 j 12:06	0°♄		greatest brilliancy	1433 Jun 02 j 00:57	18°♄18'49	-2.5m	
morning rise	1428 May 01 j 02:59	4°♄08'36		min. Earth dist.	1433 Jun 09 j 01:55	16°♄06'36	0.43674 AU	
	1428 Jun 06 j 02:51	0°♄		direct	1433 Jul 06 j 13:00	11°♄18'41		
asc. node	1428 Jun 08 j 00:44	1°♄20'24			1433 Sep 02 j 10:36	0°♄		
	1428 Jul 20 j 04:15	0°♄			1433 Oct 19 j 20:19	0°♄		
	1428 Sep 05 j 07:16	0°♄			1433 Dec 01 j 00:43	0°♄		
	1428 Oct 27 j 13:29	0°♄			1434 Jan 11 j 13:15	0°♄		
retrograde	1429 Jan 21 j 16:59	29°♄00'37		asc. node	1434 Jan 28 j 21:01	12°♄22'24		
opposition	1429 Mar 01 j 18:48	19°♄57'07	3°50'10		1434 Feb 22 j 22:20	0°♄		
greatest brilliancy	1429 Mar 02 j 06:58	19°♄45'12	-1.4m		1434 Apr 07 j 19:19	0°♄		
min. Earth dist.	1429 Mar 05 j 13:22	18°♄28'27	0.65353 AU		1434 May 23 j 05:31	0°♄		
direct	1429 Apr 12 j 04:09	9°♄55'03		evening set	1434 Jun 08 j 23:40	10°♄51'22		
	1429 Jun 18 j 02:24	0°♄			1434 Jul 08 j 19:36	0°♄		
desc. node	1429 Jun 26 j 09:30	4°♄15'44						
	1429 Aug 09 j 01:21	0°♄		conjunction	1434 Jul 26 j 13:11	11°♄18'36	1°08'55	
	1429 Sep 22 j 02:42	0°♄		minimum elong	1434 Jul 26 j 12:59	11°♄18'17	1°08'54	
	1429 Nov 01 j 13:43	0°♄		max. Earth dist.	1434 Jul 28 j 19:19	12°♄44'47	2.67311 AU	

	1434 Aug 24 j 21:47	0°♈			1439 Nov 30 j 03:35	30°♏♐	
morning rise	1434 Sep 09 j 11:21	9°♈55'12		min. Earth dist.	1439 Dec 04 j 07:15	28°♐24'18	0.59957 AU
	1434 Oct 10 j 20:56	0°♏		opposition	1439 Dec 09 j 16:42	26°♐15'51	3°12'09
	1434 Nov 26 j 09:22	0°♐		greatest brilliancy	1439 Dec 09 j 00:39	26°♐31'48	-1.7m
	1435 Jan 11 j 12:26	0°♏		direct	1440 Jan 16 j 01:50	17°♐35'52	
desc. node	1435 Feb 16 j 07:02	23°♏15'56			1440 Mar 07 j 09:46	0°♏	
	1435 Feb 26 j 17:00	0°♏			1440 May 07 j 01:38	0°♏	
	1435 Apr 15 j 08:08	0°♏			1440 Jun 27 j 15:38	0°♏	
	1435 Jun 11 j 04:57	0°♏			1440 Aug 14 j 10:38	0°♏	
retrograde	1435 Jul 18 j 08:01	8°♏10'11			1440 Sep 28 j 07:11	0°♐	
min. Earth dist.	1435 Aug 15 j 08:55	3°♏35'19	0.37582 AU	evening set	1440 Oct 01 j 15:30	2°♐18'45	
opposition	1435 Aug 18 j 02:53	2°♏50'38	-6°30'13	desc. node	1440 Oct 08 j 03:33	6°♐50'06	
greatest brilliancy	1435 Aug 17 j 15:59	2°♏58'02	-2.9m	max. Earth dist.	1440 Oct 16 j 13:05	12°♐43'57	2.48993 AU
	1435 Aug 29 j 09:20	30°♏			1440 Nov 09 j 14:49	0°♏	
direct	1435 Sep 16 j 15:59	27°♏54'23					
	1435 Oct 04 j 17:45	0°♏		conjunction	1440 Nov 22 j 06:11	9°♏16'20	-0°27'13
	1435 Dec 10 j 10:11	0°♏		minimum elong	1440 Nov 22 j 04:49	9°♏13'49	0°27'12
asc. node	1435 Dec 16 j 20:16	3°♏45'23			1440 Dec 19 j 21:37	0°♏	
	1436 Jan 28 j 14:09	0°♏		morning rise	1441 Jan 19 j 05:34	23°♏19'28	
	1436 Mar 16 j 00:35	0°♐			1441 Jan 27 j 19:24	0°♏	
	1436 May 02 j 12:52	0°♏			1441 Mar 07 j 03:09	0°♏	
	1436 Jun 19 j 06:36	0°♏			1441 Apr 14 j 17:37	0°♏	
evening set	1436 Jul 16 j 13:46	17°♏12'08			1441 May 24 j 13:12	0°♏	
	1436 Aug 05 j 18:09	0°♏			1441 Jul 05 j 15:30	0°♐	
max. Earth dist.	1436 Aug 19 j 19:45	8°♏58'57	2.66307 AU	asc. node	1441 Aug 07 j 17:49	21°♐55'55	
					1441 Aug 20 j 15:57	0°♏	
conjunction	1436 Aug 31 j 03:50	16°♏15'51	0°59'17		1441 Oct 15 j 13:12	0°♏	
minimum elong	1436 Aug 31 j 04:50	16°♏17'27	0°59'17	retrograde	1441 Dec 04 j 22:39	12°♏44'14	
	1436 Sep 21 j 08:17	0°♏		min. Earth dist.	1442 Jan 12 j 12:12	3°♏30'55	0.66757 AU
morning rise	1436 Oct 14 j 18:51	15°♏25'00		opposition	1442 Jan 14 j 02:54	2°♏52'05	4°28'54
	1436 Nov 05 j 14:33	0°♐		greatest brilliancy	1442 Jan 13 j 19:50	2°♏59'09	-1.3m
	1436 Dec 19 j 09:35	0°♏			1442 Jan 21 j 10:11	30°♏	
desc. node	1437 Jan 03 j 05:59	10°♏23'50		direct	1442 Feb 23 j 03:09	23°♏17'47	
	1437 Jan 30 j 20:06	0°♏			1442 Mar 31 j 13:26	0°♏	
	1437 Mar 13 j 05:38	0°♏			1442 Jun 04 j 15:48	0°♏	
	1437 Apr 23 j 06:07	0°♏			1442 Jul 25 j 09:26	0°♏	
	1437 Jun 04 j 08:34	0°♏		desc. node	1442 Aug 26 j 02:14	20°♏32'26	
	1437 Jul 21 j 23:10	0°♏			1442 Sep 09 j 02:05	0°♐	
retrograde	1437 Sep 17 j 23:34	18°♏51'18			1442 Oct 21 j 10:37	0°♏	
min. Earth dist.	1437 Oct 16 j 16:39	13°♏09'09	0.47832 AU	evening set	1442 Nov 22 j 06:02	23°♏44'56	
opposition	1437 Oct 24 j 19:54	10°♏13'49	-0°29'28		1442 Nov 30 j 10:25	0°♏	
greatest brilliancy	1437 Oct 24 j 16:33	10°♏16'50	-2.3m		1443 Jan 07 j 23:18	0°♏	
asc. node	1437 Nov 02 j 20:17	7°♏10'00		max. Earth dist.	1443 Jan 10 j 01:43	1°♏39'14	2.37262 AU
direct	1437 Nov 27 j 05:48	3°♏13'15					
	1438 Feb 15 j 03:56	0°♐		conjunction	1443 Jan 24 j 00:41	12°♏39'48	-1°04'53
	1438 Apr 10 j 05:42	0°♏		minimum elong	1443 Jan 24 j 00:31	12°♏39'27	1°04'54
	1438 May 30 j 16:21	0°♏			1443 Feb 14 j 23:37	0°♏	
	1438 Jul 18 j 07:19	0°♏			1443 Mar 25 j 09:11	0°♏	
evening set	1438 Aug 22 j 19:46	22°♏39'01		morning rise	1443 Apr 04 j 12:42	7°♏47'45	
	1438 Sep 03 j 02:38	0°♏			1443 May 04 j 00:16	0°♏	
max. Earth dist.	1438 Sep 14 j 07:00	7°♏21'41	2.59996 AU		1443 Jun 14 j 14:39	0°♐	
				asc. node	1443 Jun 25 j 17:34	7°♐43'59	
conjunction	1438 Oct 08 j 09:35	23°♏31'16	0°25'19		1443 Jul 28 j 20:31	0°♏	
minimum elong	1438 Oct 08 j 10:28	23°♏32'47	0°25'19		1443 Sep 14 j 20:32	0°♏	
	1438 Oct 17 j 21:28	0°♐			1443 Nov 10 j 03:20	0°♏	
desc. node	1438 Nov 21 j 04:56	23°♐58'01		retrograde	1444 Jan 08 j 13:03	16°♏03'49	
morning rise	1438 Nov 25 j 09:48	26°♐57'46		opposition	1444 Feb 17 j 03:32	6°♏42'13	4°16'34
	1438 Nov 29 j 15:38	0°♏		greatest brilliancy	1444 Feb 17 j 11:09	6°♏34'40	-1.3m
	1439 Jan 09 j 15:24	0°♏		min. Earth dist.	1444 Feb 19 j 09:57	5°♏48'21	0.67052 AU
	1439 Feb 18 j 07:58	0°♏			1444 Mar 06 j 19:39	30°♏	
	1439 Mar 29 j 09:26	0°♏		direct	1444 Mar 29 j 10:27	26°♏42'12	
	1439 May 07 j 17:17	0°♏			1444 Apr 22 j 22:27	0°♏	
	1439 Jun 17 j 14:08	0°♏			1444 Jun 30 j 08:24	0°♏	
	1439 Aug 01 j 07:22	0°♐		desc. node	1444 Jul 13 j 01:58	7°♏21'49	
asc. node	1439 Sep 20 j 19:00	26°♐51'47			1444 Aug 18 j 02:04	0°♐	
	1439 Sep 29 j 00:50	0°♏			1444 Sep 30 j 07:28	0°♏	
retrograde	1439 Oct 31 j 03:16	6°♏09'05			1444 Nov 09 j 11:43	0°♏	

	1444 Dec 18 j 00:08	0°♊		1449 Oct 18 j 01:17	0°♊
	1445 Jan 25 j 00:12	0°♋		1449 Dec 04 j 10:57	0°♌
evening set	1445 Jan 28 j 19:42	3°♋00'00		1450 Jan 21 j 08:59	0°♍
	1445 Mar 04 j 11:49	0°♎	desc. node	1450 Mar 04 j 22:29	25°♍41'31
				1450 Mar 12 j 09:07	0°♎
conjunction	1445 Apr 05 j 12:27	24°♎14'36 -0°23'31		1450 May 12 j 12:17	0°♏
minimum elong	1445 Apr 05 j 14:16	24°♎17'59 0°23'29	retrograde	1450 Jun 16 j 06:24	6°♏46'58
	1445 Apr 13 j 06:54	0°♐	opposition	1450 Jul 16 j 11:48	1°♏48'03 -6°37'36
asc. node	1445 May 12 j 15:17	21°♐16'13	greatest brilliancy	1450 Jul 17 j 02:35	1°♏38'07 -2.9m
max. Earth dist.	1445 May 21 j 09:23	27°♐28'03 2.48064 AU	min. Earth dist.	1450 Jul 19 j 03:32	1°♏05'21 0.37898 AU
	1445 May 24 j 23:54	0°♑		1450 Jul 23 j 07:47	30°♑♎
morning rise	1445 Jun 05 j 22:56	8°♑19'25	direct	1450 Aug 16 j 03:57	26°♑32'09
	1445 Jul 07 j 22:32	0°♒		1450 Sep 08 j 08:57	0°♒
	1445 Aug 23 j 07:12	0°♓		1450 Nov 08 j 13:34	0°♋
	1445 Oct 11 j 15:15	0°♌		1450 Dec 25 j 02:22	0°♎
	1445 Dec 06 j 04:30	0°♊	asc. node	1451 Jan 02 j 13:01	5°♎36'41
retrograde	1446 Feb 14 j 21:31	20°♊57'33		1451 Feb 08 j 03:05	0°♋
opposition	1446 Mar 24 j 17:55	12°♊30'00 2°38'54		1451 Mar 25 j 15:26	0°♌
greatest brilliancy	1446 Mar 25 j 08:29	12°♊16'06 -1.6m		1451 May 11 j 02:30	0°♍
min. Earth dist.	1446 Mar 30 j 17:54	10°♊12'40 0.60785 AU		1451 Jun 27 j 06:37	0°♎
direct	1446 May 04 j 17:20	2°♊37'44	evening set	1451 Jul 02 j 23:19	3°♎36'38
desc. node	1446 May 31 j 00:56	6°♊37'51	max. Earth dist.	1451 Aug 11 j 21:13	28°♎57'03 2.67337 AU
	1446 Jul 22 j 02:52	0°♌		1451 Aug 13 j 12:44	0°♍
	1446 Sep 07 j 07:54	0°♍			
	1446 Oct 18 j 19:39	0°♎	conjunction	1451 Aug 17 j 23:44	2°♍50'36 1°06'02
	1446 Nov 26 j 22:38	0°♏	minimum elong	1451 Aug 18 j 00:21	2°♍51'36 1°06'02
	1447 Jan 04 j 09:22	0°♋		1451 Sep 29 j 04:47	0°♊
	1447 Feb 12 j 08:05	0°♎	morning rise	1451 Oct 01 j 08:45	1°♊24'24
	1447 Mar 24 j 15:21	0°♋		1451 Nov 13 j 20:14	0°♌
asc. node	1447 Mar 30 j 14:13	4°♋19'14		1451 Dec 28 j 07:48	0°♍
evening set	1447 Apr 04 j 19:37	8°♋05'17	desc. node	1452 Jan 20 j 21:52	16°♍12'34
	1447 May 05 j 19:54	0°♌		1452 Feb 09 j 18:25	0°♎
				1452 Mar 23 j 12:03	0°♏
conjunction	1447 May 31 j 05:47	17°♌24'25 0°35'52		1452 May 05 j 11:16	0°♋
minimum elong	1447 May 31 j 04:13	17°♌21'47 0°35'51		1452 Jun 20 j 17:06	0°♎
	1447 Jun 19 j 00:53	0°♍	retrograde	1452 Aug 27 j 20:41	24°♎48'52
max. Earth dist.	1447 Jun 24 j 23:14	3°♍55'42 2.59635 AU	min. Earth dist.	1452 Sep 23 j 18:32	19°♎56'19 0.42741 AU
morning rise	1447 Jul 21 j 05:08	21°♍04'52	opposition	1452 Oct 01 j 14:48	17°♎22'48 -2°52'12
	1447 Aug 04 j 01:44	0°♎	greatest brilliancy	1452 Sep 30 j 21:16	17°♎37'10 -2.6m
	1447 Sep 20 j 15:10	0°♏	direct	1452 Nov 02 j 02:29	11°♎17'29
	1447 Nov 08 j 20:02	0°♊	asc. node	1452 Nov 19 j 11:33	13°♎09'59
	1447 Dec 31 j 08:24	0°♌		1453 Jan 03 j 16:57	0°♋
	1448 Mar 09 j 13:13	0°♍		1453 Feb 27 j 18:30	0°♌
retrograde	1448 Apr 04 j 07:51	3°♍38'18		1453 Apr 19 j 03:15	0°♍
desc. node	1448 Apr 16 j 23:07	2°♍38'17		1453 Jun 07 j 05:10	0°♎
	1448 Apr 28 j 15:55	30°♑♌		1453 Jul 25 j 06:36	0°♏
opposition	1448 May 08 j 20:35	26°♌43'45 -1°07'10	evening set	1453 Aug 08 j 04:37	8°♏50'32
greatest brilliancy	1448 May 09 j 04:57	26°♌36'34 -2.2m	max. Earth dist.	1453 Sep 03 j 21:53	26°♏03'56 2.63077 AU
min. Earth dist.	1448 May 17 j 07:46	23°♌49'59 0.48907 AU		1453 Sep 09 j 22:29	0°♊
direct	1448 Jun 15 j 17:56	18°♌15'09			
	1448 Jul 30 j 19:37	0°♍	conjunction	1453 Sep 23 j 00:20	8°♊36'27 0°41'11
	1448 Sep 20 j 00:22	0°♎	minimum elong	1453 Sep 23 j 01:29	8°♊38'21 0°41'10
	1448 Nov 01 j 05:26	0°♏		1453 Oct 24 j 20:35	0°♌
	1448 Dec 11 j 10:08	0°♋	morning rise	1453 Nov 08 j 03:43	9°♌49'06
	1449 Jan 20 j 17:25	0°♎		1453 Dec 06 j 22:44	0°♍
asc. node	1449 Feb 14 j 14:21	18°♎07'20	desc. node	1453 Dec 07 j 20:30	0°♍38'41
	1449 Mar 03 j 04:55	0°♋		1454 Jan 17 j 09:35	0°♎
	1449 Apr 15 j 09:29	0°♌		1454 Feb 26 j 14:26	0°♏
evening set	1449 May 23 j 13:02	25°♌32'03		1454 Apr 07 j 04:24	0°♋
	1449 May 30 j 07:58	0°♍		1454 May 17 j 02:55	0°♎
				1454 Jun 28 j 01:47	0°♋
conjunction	1449 Jul 11 j 18:18	27°♍30'22 1°05'29		1454 Aug 15 j 08:05	0°♌
minimum elong	1449 Jul 11 j 17:31	27°♍29'07 1°05'28	asc. node	1454 Oct 07 j 11:29	19°♌20'09
	1449 Jul 15 j 15:37	0°♎	retrograde	1454 Oct 15 j 16:24	19°♌48'17
max. Earth dist.	1449 Jul 19 j 15:47	2°♎34'01 2.66207 AU	min. Earth dist.	1454 Nov 16 j 19:14	12°♌47'29 0.55677 AU
morning rise	1449 Aug 26 j 15:45	26°♎46'36	opposition	1454 Nov 23 j 12:47	10°♌10'33 2°08'36
	1449 Aug 31 j 17:38	0°♏	greatest brilliancy	1454 Nov 22 j 22:55	10°♌24'02 -1.9m

direct	1454 Dec 29 j 12:10	2° Π 02'41		conjunction	1460 Mar 09 j 07:58	27° X 54'42	-0°47'51
	1455 Mar 23 j 14:42	0° S		minimum elong	1460 Mar 09 j 11:10	28° X 00'53	0°47'50
	1455 May 17 j 03:52	0° Ω			1460 Mar 12 j 00:55	0° Υ	
	1455 Jul 06 j 05:41	0° M			1460 Apr 20 j 17:02	0° B	
	1455 Aug 22 j 12:53	0° L		max. Earth dist.	1460 Apr 29 j 13:40	6° B 31'20	2.42621 AU
evening set	1455 Sep 15 j 22:40	16° L 08'52		morning rise	1460 May 15 j 01:00	17° B 44'30	
max. Earth dist.	1455 Oct 02 j 21:13	27° L 38'28	2.53755 AU	asc. node	1460 May 29 j 08:10	27° B 55'10	
	1455 Oct 06 j 07:36	0° M			1460 Jun 01 j 07:08	0° Π	
desc. node	1455 Oct 25 j 19:46	13° M 35'46			1460 Jul 15 j 05:44	0° S	
					1460 Aug 30 j 23:05	0° Ω	
conjunction	1455 Nov 03 j 22:52	20° M 04'12	-0°05'36		1460 Oct 20 j 18:45	0° M	
minimum elong	1455 Nov 03 j 22:37	20° M 03'45	0°05'35		1460 Dec 23 j 18:43	0° L	
behind sun begin	1455 Nov 03 j 02:18	19° M 27'33		retrograde	1461 Jan 30 j 04:32	7° L 05'37	
behind sun end	1455 Nov 04 j 18:57	20° M 40'00			1461 Mar 05 j 06:01	30° R M	
	1455 Nov 17 j 18:19	0° J		opposition	1461 Mar 09 j 21:16	28° M 13'30	3°28'21
morning rise	1455 Dec 26 j 23:41	29° J 01'36		greatest brilliancy	1461 Mar 10 j 11:04	28° M 00'05	-1.4m
	1455 Dec 28 j 06:38	0° Z		min. Earth dist.	1461 Mar 14 j 11:11	26° M 26'41	0.63995 AU
	1456 Feb 05 j 10:27	0° \approx		direct	1461 Apr 20 j 05:08	18° M 12'48	
	1456 Mar 14 j 23:29	0° X			1461 Jun 07 j 18:17	0° L	
	1456 Apr 22 j 18:33	0° Υ		desc. node	1461 Jun 16 j 16:08	3° L 58'55	
	1456 Jun 01 j 19:44	0° B			1461 Aug 02 j 17:04	0° M	
	1456 Jul 14 j 10:54	0° Π			1461 Sep 16 j 14:39	0° J	
asc. node	1456 Aug 24 j 10:12	25° L 59'43			1461 Oct 27 j 09:05	0° Z	
	1456 Aug 31 j 07:59	0° S			1461 Dec 05 j 04:05	0° \approx	
retrograde	1456 Nov 21 j 10:38	29° S 23'09			1462 Jan 12 j 08:56	0° X	
min. Earth dist.	1456 Dec 28 j 09:53	20° S 41'20	0.64850 AU		1462 Feb 20 j 01:48	0° Υ	
opposition	1456 Dec 31 j 13:07	19° S 25'50	4°11'27	evening set	1462 Mar 12 j 01:20	15° Υ 07'41	
greatest brilliancy	1456 Dec 31 j 00:59	19° S 38'01	-1.4m		1462 Apr 01 j 02:48	0° B	
direct	1457 Feb 08 j 16:45	10° S 09'05		asc. node	1462 Apr 16 j 07:26	11° B 02'23	
	1457 Apr 18 j 10:15	0° Ω					
	1457 Jun 13 j 23:16	0° M		conjunction	1462 May 11 j 14:27	28° B 59'19	0°15'41
	1457 Aug 02 j 04:26	0° L		minimum elong	1462 May 11 j 13:31	28° B 57'42	0°15'40
desc. node	1457 Sep 11 j 18:55	26° L 48'15		behind sun begin	1462 May 11 j 10:16	28° B 52'01	
	1457 Sep 16 j 10:56	0° M		behind sun end	1462 May 11 j 16:46	29° B 03'23	
	1457 Oct 28 j 18:06	0° J			1462 May 13 j 01:12	0° Π	
evening set	1457 Oct 31 j 04:29	1° J 46'47		max. Earth dist.	1462 Jun 13 j 08:57	21° L 29'11	2.55616 AU
max. Earth dist.	1457 Nov 19 j 02:44	15° J 49'08	2.41090 AU		1462 Jun 26 j 01:55	0° S	
	1457 Dec 07 j 19:53	0° Z		morning rise	1462 Jul 04 j 22:57	5° S 53'03	
					1462 Aug 11 j 03:04	0° Ω	
conjunction	1457 Dec 27 j 23:10	15° Z 32'12	-0°56'51		1462 Sep 28 j 03:04	0° M	
minimum elong	1457 Dec 27 j 21:01	15° Z 28'01	0°56'50		1462 Nov 17 j 19:20	0° L	
	1458 Jan 15 j 11:22	0° \approx			1463 Jan 14 j 20:51	0° M	
	1458 Feb 22 j 13:28	0° X		retrograde	1463 Mar 15 j 01:26	15° M 41'00	
morning rise	1458 Mar 05 j 06:03	8° X 24'08		opposition	1463 Apr 20 j 02:37	8° M 03'42	0°40'33
	1458 Apr 01 j 23:40	0° Υ		greatest brilliancy	1463 Apr 20 j 08:06	7° M 58'42	-1.9m
	1458 May 11 j 14:44	0° B		min. Earth dist.	1463 Apr 27 j 22:58	5° M 12'57	0.54035 AU
	1458 Jun 22 j 06:38	0° Π		desc. node	1463 May 04 j 15:06	2° M 58'46	
asc. node	1458 Jul 12 j 08:22	13° L 47'26			1463 May 16 j 11:50	30° R L	
	1458 Aug 05 j 21:33	0° S		direct	1463 May 29 j 16:10	28° L 48'09	
	1458 Sep 24 j 09:55	0° Ω			1463 Jun 12 j 07:52	0° M	
	1458 Dec 01 j 09:14	0° M			1463 Aug 19 j 13:43	0° J	
retrograde	1458 Dec 25 j 22:52	3° M 22'54			1463 Oct 03 j 01:31	0° Z	
	1459 Jan 17 j 16:00	30° R Ω			1463 Nov 12 j 10:03	0° \approx	
opposition	1459 Feb 03 j 21:54	23° Ω 46'44	4°30'39		1463 Dec 21 j 15:06	0° X	
greatest brilliancy	1459 Feb 03 j 23:55	23° Ω 44'44	-1.3m		1464 Jan 30 j 05:04	0° Υ	
min. Earth dist.	1459 Feb 04 j 15:45	23° Ω 28'56	0.67733 AU	asc. node	1464 Mar 03 j 05:55	24° Υ 20'03	
direct	1459 Mar 16 j 20:57	13° Ω 53'44			1464 Mar 11 j 02:19	0° B	
	1459 May 15 j 22:16	0° M			1464 Apr 22 j 19:01	0° Π	
	1459 Jul 11 j 05:46	0° L		evening set	1464 May 05 j 17:07	8° L 49'17	
desc. node	1459 Jul 30 j 17:23	11° L 58'31			1464 Jun 06 j 08:50	0° S	
	1459 Aug 27 j 08:21	0° M					
	1459 Oct 09 j 02:47	0° J		conjunction	1464 Jun 26 j 04:15	12° S 59'09	0°57'41
	1459 Nov 18 j 04:11	0° Z		minimum elong	1464 Jun 26 j 02:57	12° S 57'03	0°57'40
	1459 Dec 26 j 15:58	0° \approx		max. Earth dist.	1464 Jul 10 j 01:57	22° S 00'15	2.64272 AU
evening set	1460 Jan 01 j 10:07	4° \approx 32'29			1464 Jul 22 j 12:03	0° Ω	
	1460 Feb 02 j 15:11	0° X		morning rise	1464 Aug 12 j 13:26	13° Ω 27'22	
					1464 Sep 07 j 16:03	0° M	

	1464 Oct 25 j 12:04	0°♄		greatest brilliancy	1469 Nov 05 j 04:52	22°♄14'00	-2.2m
	1464 Dec 13 j 04:39	0°♌		direct	1469 Dec 09 j 18:36	14°♄41'57	
	1465 Feb 02 j 04:32	0°♊			1470 Feb 04 j 15:05	0°♊	
desc. node	1465 Mar 21 j 13:32	24°♊19'10			1470 Apr 03 j 20:04	0°♊	
	1465 Apr 04 j 08:15	0°♊			1470 May 25 j 10:04	0°♊	
retrograde	1465 May 15 j 16:31	8°♊48'29			1470 Jul 13 j 11:55	0°♊	
opposition	1465 Jun 16 j 04:21	3°♊13'49 -4°44'33			1470 Aug 29 j 11:26	0°♄	
greatest brilliancy	1465 Jun 17 j 06:36	2°♊54'19 -2.7m		evening set	1470 Aug 31 j 09:11	1°♄14'51	
min. Earth dist.	1465 Jun 22 j 22:50	1°♊13'28 0.41122 AU		max. Earth dist.	1470 Sep 20 j 17:15	14°♄42'39	2.57982 AU
	1465 Jun 27 j 08:05	30°♊♊			1470 Oct 13 j 06:34	0°♌	
direct	1465 Jul 19 j 23:20	26°♊42'13					
	1465 Aug 11 j 04:44	0°♊		conjunction	1470 Oct 17 j 14:44	2°♌59'13	0°14'45
	1465 Oct 10 j 06:20	0°♊		minimum elong	1470 Oct 17 j 15:19	3°♌00'12	0°14'45
	1465 Nov 23 j 17:58	0°♋		behind sun begin	1470 Oct 17 j 06:51	2°♌45'38	
	1466 Jan 05 j 08:34	0°♎		behind sun end	1470 Oct 17 j 23:46	3°♌14'47	
asc. node	1466 Jan 19 j 04:59	9°♎43'32		desc. node	1470 Nov 11 j 11:27	20°♌22'53	
	1466 Feb 17 j 09:41	0°♋			1470 Nov 24 j 22:28	0°♊	
	1466 Apr 02 j 17:10	0°♊		morning rise	1470 Dec 06 j 01:28	8°♊03'16	
	1466 May 18 j 10:19	0°♊			1471 Jan 04 j 18:22	0°♊	
evening set	1466 Jun 17 j 21:48	19°♊36'30			1471 Feb 13 j 06:20	0°♊	
	1466 Jul 04 j 04:24	0°♊			1471 Mar 24 j 02:43	0°♋	
					1471 May 02 j 04:37	0°♎	
conjunction	1466 Aug 03 j 18:59	19°♊29'00 1°09'00			1471 Jun 11 j 15:26	0°♋	
minimum elong	1466 Aug 03 j 19:07	19°♊29'12 1°08'59			1471 Jul 25 j 06:14	0°♊	
max. Earth dist.	1466 Aug 03 j 01:01	19°♊00'24 2.67554 AU		asc. node	1471 Sep 11 j 02:02	27°♊55'10	
	1466 Aug 20 j 07:23	0°♊			1471 Sep 15 j 07:51	0°♊	
morning rise	1466 Sep 17 j 09:26	17°♊56'44		retrograde	1471 Nov 08 j 11:37	15°♊15'02	
	1466 Oct 06 j 03:32	0°♄		min. Earth dist.	1471 Dec 13 j 16:33	7°♊08'56	0.61952 AU
	1466 Nov 21 j 07:17	0°♌		opposition	1471 Dec 18 j 07:38	5°♊18'05	3°39'19
	1467 Jan 05 j 17:30	0°♊		greatest brilliancy	1471 Dec 17 j 16:04	5°♊33'37	-1.6m
desc. node	1467 Feb 06 j 13:29	21°♊14'06			1472 Jan 01 j 23:08	30°♊♊	
	1467 Feb 19 j 16:06	0°♊		direct	1472 Jan 25 j 09:30	26°♊23'28	
	1467 Apr 05 j 19:11	0°♊			1472 Feb 20 j 02:51	0°♊	
	1467 May 23 j 14:45	0°♋			1472 Apr 30 j 09:20	0°♊	
retrograde	1467 Aug 03 j 14:44	26°♋17'22			1472 Jun 22 j 08:07	0°♊	
min. Earth dist.	1467 Aug 30 j 11:17	21°♋50'08 0.38794 AU			1472 Aug 09 j 14:18	0°♄	
opposition	1467 Sep 04 j 18:55	20°♋17'58 -5°26'18			1472 Sep 23 j 14:33	0°♌	
greatest brilliancy	1467 Sep 03 j 22:47	20°♋32'32 -2.8m		desc. node	1472 Sep 28 j 09:58	3°♌19'18	
direct	1467 Oct 04 j 15:30	15°♋04'54		evening set	1472 Oct 11 j 19:25	12°♌41'33	
	1467 Nov 27 j 04:21	0°♎		max. Earth dist.	1472 Oct 26 j 15:22	23°♌16'04	2.46176 AU
asc. node	1467 Dec 07 j 04:00	4°♎54'07			1472 Nov 04 j 22:20	0°♊	
	1468 Jan 20 j 21:47	0°♋					
	1468 Mar 10 j 01:09	0°♊		conjunction	1472 Dec 04 j 07:08	21°♊46'37	-0°39'15
	1468 Apr 27 j 08:19	0°♊		minimum elong	1472 Dec 04 j 05:11	21°♊42'57	0°39'15
	1468 Jun 14 j 11:37	0°♊			1472 Dec 15 j 03:37	0°♊	
evening set	1468 Jul 24 j 19:07	25°♊20'30			1473 Jan 22 j 23:19	0°♊	
	1468 Aug 01 j 03:26	0°♊		morning rise	1473 Feb 03 j 13:33	9°♊04'50	
max. Earth dist.	1468 Aug 25 j 05:32	15°♊23'48 2.65392 AU			1473 Mar 02 j 04:51	0°♋	
					1473 Apr 09 j 17:17	0°♎	
conjunction	1468 Sep 08 j 07:56	24°♊30'35 0°53'40			1473 May 19 j 10:14	0°♋	
minimum elong	1468 Sep 08 j 09:03	24°♊32'24 0°53'39			1473 Jun 30 j 06:33	0°♊	
	1468 Sep 16 j 18:13	0°♄		asc. node	1473 Jul 29 j 01:44	19°♊25'04	
morning rise	1468 Oct 23 j 07:42	24°♄12'58			1473 Aug 14 j 13:44	0°♊	
	1468 Oct 31 j 21:37	0°♌			1473 Oct 05 j 23:27	0°♊	
	1468 Dec 14 j 10:21	0°♊		retrograde	1473 Dec 12 j 14:30	20°♊38'47	
desc. node	1468 Dec 24 j 13:09	7°♊07'43		opposition	1474 Jan 21 j 18:01	10°♊51'18	4°33'05
	1469 Jan 25 j 11:30	0°♊		min. Earth dist.	1474 Jan 20 j 23:01	11°♊10'20	0.67381 AU
	1469 Mar 07 j 08:57	0°♊		greatest brilliancy	1474 Jan 21 j 14:04	10°♊55'15	-1.3m
	1469 Apr 16 j 17:30	0°♋		direct	1474 Mar 03 j 04:01	1°♊09'21	
	1469 May 27 j 17:41	0°♎			1474 May 28 j 18:05	0°♊	
	1469 Jul 11 j 01:46	0°♋			1474 Jul 19 j 23:39	0°♄	
	1469 Sep 15 j 06:34	0°♊		desc. node	1474 Aug 16 j 09:07	17°♄27'49	
retrograde	1469 Sep 28 j 16:22	1°♊15'13			1474 Sep 04 j 03:21	0°♌	
	1469 Oct 11 j 15:07	30°♊♊			1474 Oct 16 j 15:31	0°♊	
asc. node	1469 Oct 24 j 02:18	26°♊38'44			1474 Nov 25 j 16:00	0°♊	
min. Earth dist.	1469 Oct 28 j 14:58	25°♊03'38 0.50742 AU		evening set	1474 Dec 05 j 22:46	7°♊55'29	
opposition	1469 Nov 05 j 09:49	22°♊09'22 0°37'53			1475 Jan 03 j 04:24	0°♊	

conjunction	1475 Feb 09 j 06:34	29° \approx 18'00	-1°02'55	desc. node	1480 Apr 07 j 06:09	14° \nearrow 50'10	
minimum elong	1475 Feb 09 j 08:09	29° \approx 21'09	1°02'55	retrograde	1480 Apr 17 j 23:32	15° \nearrow 30'58	
	1475 Feb 10 j 03:51	0° \mathbb{H}		opposition	1480 May 21 j 11:43	9° \nearrow 04'14	-2°21'15
max. Earth dist.	1475 Mar 17 j 20:56	27° \mathbb{H} 56'37	2.37835 AU	greatest brilliancy	1480 May 22 j 04:40	8° \nearrow 50'19	-2.4m
	1475 Mar 20 j 12:48	0° Υ		min. Earth dist.	1480 May 29 j 21:42	6° \nearrow 19'08	0.45962 AU
morning rise	1475 Apr 20 j 13:21	23° Υ 36'14		direct	1480 Jun 27 j 03:46	1° \nearrow 11'55	
	1475 Apr 29 j 03:25	0° \mathcal{B}			1480 Sep 10 j 14:44	0° \mathcal{B}	
	1475 Jun 09 j 16:24	0° \mathbb{I}			1480 Oct 25 j 00:47	0° \approx	
asc. node	1475 Jun 15 j 23:58	4° \mathbb{I} 25'00			1480 Dec 05 j 03:54	0° \mathbb{H}	
	1475 Jul 23 j 17:48	0° \mathcal{C}			1481 Jan 15 j 00:54	0° Υ	
	1475 Sep 09 j 02:23	0° \mathcal{O}		asc. node	1481 Feb 04 j 20:34	15° Υ 01'56	
	1475 Nov 01 j 12:58	0° \mathbb{M}			1481 Feb 25 j 22:35	0° \mathcal{B}	
retrograde	1476 Jan 16 j 14:11	23° \mathbb{M} 55'21			1481 Apr 10 j 10:35	0° \mathbb{I}	
opposition	1476 Feb 24 j 22:12	14° \mathbb{M} 43'13	4°02'32		1481 May 25 j 14:26	0° \mathcal{C}	
greatest brilliancy	1476 Feb 25 j 08:26	14° \mathbb{M} 33'07	-1.3m	evening set	1481 Jun 02 j 01:59	4° \mathcal{C} 52'51	
min. Earth dist.	1476 Feb 28 j 00:11	13° \mathbb{M} 30'23	0.66238 AU		1481 Jul 11 j 00:49	0° \mathcal{O}	
direct	1476 Apr 06 j 07:18	4° \mathbb{M} 41'36					
	1476 Jun 22 j 21:45	0° \mathcal{L}		conjunction	1481 Jul 20 j 07:17	5° \mathcal{O} 55'31	1°07'58
desc. node	1476 Jul 03 j 07:54	5° \mathcal{L} 40'44		minimum elong	1481 Jul 20 j 06:51	5° \mathcal{O} 54'49	1°07'58
	1476 Aug 12 j 09:02	0° \mathbb{M}		max. Earth dist.	1481 Jul 25 j 00:05	8° \mathcal{O} 55'33	2.66930 AU
	1476 Sep 25 j 02:44	0° \nearrow			1481 Aug 27 j 02:31	0° \mathbb{M}	
	1476 Nov 04 j 11:44	0° \mathcal{B}		morning rise	1481 Sep 03 j 14:10	4° \mathbb{M} 45'39	
	1476 Dec 13 j 02:20	0° \approx			1481 Oct 13 j 05:18	0° \mathcal{L}	
	1477 Jan 20 j 03:31	0° \mathbb{H}			1481 Nov 29 j 02:27	0° \mathbb{M}	
evening set	1477 Feb 13 j 14:09	19° \mathbb{H} 07'16			1482 Jan 14 j 22:22	0° \nearrow	
	1477 Feb 27 j 16:07	0° Υ		desc. node	1482 Feb 23 j 05:26	24° \nearrow 52'32	
	1477 Apr 08 j 12:13	0° \mathcal{B}			1482 Mar 03 j 11:06	0° \mathcal{B}	
					1482 Apr 23 j 07:52	0° \approx	
conjunction	1477 Apr 19 j 09:43	7° \mathcal{B} 58'46	-0°08'41	retrograde	1482 Jul 04 j 15:48	24° \approx 38'06	
minimum elong	1477 Apr 19 j 10:21	7° \mathcal{B} 59'54	0°08'40	opposition	1482 Aug 03 j 19:18	19° \approx 36'56	-6°52'01
behind sun begin	1477 Apr 18 j 12:17	7° \mathcal{B} 19'45		greatest brilliancy	1482 Aug 03 j 20:04	19° \approx 36'26	-2.9m
behind sun end	1477 Apr 20 j 08:25	8° \mathcal{B} 40'00		min. Earth dist.	1482 Aug 03 j 12:04	19° \approx 41'43	0.37306 AU
asc. node	1477 May 02 j 22:56	17° \mathcal{B} 45'21		direct	1482 Sep 02 j 12:28	14° \approx 40'54	
	1477 May 20 j 05:48	0° \mathbb{I}			1482 Oct 25 j 13:22	0° \mathbb{H}	
max. Earth dist.	1477 May 30 j 19:19	7° \mathbb{I} 21'21	2.50907 AU		1482 Dec 16 j 18:29	0° Υ	
morning rise	1477 Jun 17 j 01:55	19° \mathbb{I} 11'32		asc. node	1482 Dec 23 j 19:23	4° Υ 25'21	
	1477 Jul 03 j 03:53	0° \mathcal{C}			1483 Feb 01 j 16:07	0° \mathcal{B}	
	1477 Aug 18 j 08:01	0° \mathcal{O}			1483 Mar 20 j 02:39	0° \mathbb{I}	
	1477 Oct 06 j 00:53	0° \mathbb{M}			1483 May 06 j 02:20	0° \mathcal{C}	
	1477 Nov 28 j 03:55	0° \mathcal{L}			1483 Jun 22 j 13:23	0° \mathcal{O}	
retrograde	1478 Feb 24 j 13:34	29° \mathcal{L} 50'13		evening set	1483 Jul 11 j 09:21	11° \mathcal{O} 53'38	
opposition	1478 Apr 02 j 20:14	21° \mathcal{L} 38'40	2°01'41		1483 Aug 08 j 22:30	0° \mathbb{M}	
greatest brilliancy	1478 Apr 03 j 09:13	21° \mathcal{L} 26'27	-1.7m	max. Earth dist.	1483 Aug 17 j 02:52	5° \mathbb{M} 13'03	2.66876 AU
min. Earth dist.	1478 Apr 09 j 13:33	19° \mathcal{L} 07'02	0.58587 AU				
direct	1478 May 13 j 10:39	11° \mathcal{L} 55'49		conjunction	1483 Aug 26 j 02:29	10° \mathbb{M} 57'55	1°02'33
desc. node	1478 May 21 j 06:30	12° \mathcal{L} 19'15		minimum elong	1483 Aug 26 j 03:20	10° \mathbb{M} 59'17	1°02'32
	1478 Jul 12 j 18:48	0° \mathbb{M}			1483 Sep 24 j 13:57	0° \mathcal{L}	
	1478 Aug 31 j 19:24	0° \nearrow		morning rise	1483 Oct 09 j 13:03	9° \mathcal{L} 46'57	
	1478 Oct 13 j 01:24	0° \mathcal{B}			1483 Nov 09 j 00:40	0° \mathbb{M}	
	1478 Nov 21 j 12:46	0° \approx			1483 Dec 23 j 03:21	0° \nearrow	
	1478 Dec 30 j 04:39	0° \mathbb{H}		desc. node	1484 Jan 11 j 04:23	13° \nearrow 13'41	
	1479 Feb 07 j 07:31	0° Υ			1484 Feb 04 j 00:12	0° \mathcal{B}	
	1479 Mar 19 j 18:33	0° \mathcal{B}			1484 Mar 16 j 22:44	0° \approx	
asc. node	1479 Mar 20 j 22:34	0° \mathcal{B} 50'47			1484 Apr 27 j 15:47	0° \mathbb{H}	
evening set	1479 Apr 17 j 00:13	20° \mathcal{B} 10'30			1484 Jun 09 j 23:49	0° Υ	
	1479 May 01 j 02:02	0° \mathbb{I}			1484 Aug 01 j 15:27	0° \mathcal{B}	
				retrograde	1484 Sep 09 j 06:13	9° \mathcal{B} 20'59	
conjunction	1479 Jun 10 j 10:42	27° \mathbb{I} 23'19	0°45'13	min. Earth dist.	1484 Oct 07 j 01:43	4° \mathcal{B} 01'40	0.45486 AU
minimum elong	1479 Jun 10 j 09:06	27° \mathbb{I} 20'40	0°45'13	opposition	1484 Oct 15 j 05:37	1° \mathcal{B} 12'09	-1°27'05
	1479 Jun 14 j 09:00	0° \mathcal{C}		greatest brilliancy	1484 Oct 14 j 19:52	1° \mathcal{B} 20'38	-2.5m
max. Earth dist.	1479 Jul 01 j 03:45	11° \mathcal{C} 03'30	2.61505 AU		1484 Oct 18 j 17:56	30° \mathbb{R} Υ	
morning rise	1479 Jul 29 j 22:21	29° \mathcal{C} 42'12		asc. node	1484 Nov 09 j 19:33	24° Υ 55'17	
	1479 Jul 30 j 09:27	0° \mathcal{O}		direct	1484 Nov 16 j 19:20	24° Υ 35'27	
	1479 Sep 15 j 18:11	0° \mathbb{M}			1484 Dec 17 j 13:25	0° \mathcal{B}	
	1479 Nov 03 j 08:30	0° \mathcal{L}			1485 Feb 20 j 04:29	0° \mathbb{I}	
	1479 Dec 24 j 01:40	0° \mathbb{M}			1485 Apr 13 j 09:12	0° \mathcal{C}	
	1480 Feb 19 j 19:02	0° \nearrow			1485 Jun 02 j 04:25	0° \mathcal{O}	

	1485 Jul 20 j 13:37	0°♎			1490 May 06 j 16:39	0°♎	
evening set	1485 Aug 16 j 12:38	17°♎08'58			1490 Jun 17 j 05:57	0°♎	
	1485 Sep 05 j 08:19	0°♎		asc. node	1490 Jul 02 j 16:41	10°♎42'16	
max. Earth dist.	1485 Sep 09 j 18:42	2°♎54'21	2.61480 AU		1490 Jul 31 j 13:17	0°♎	
					1490 Sep 17 j 23:34	0°♎	
conjunction	1485 Oct 01 j 16:38	17°♎26'55	0°32'22		1490 Nov 16 j 00:08	0°♎	
minimum elong	1485 Oct 01 j 17:40	17°♎28'39	0°32'22	retrograde	1491 Jan 02 j 16:49	11°♎07'09	
	1485 Oct 20 j 05:31	0°♎		opposition	1491 Feb 11 j 11:43	1°♎38'30	4°23'45
morning rise	1485 Nov 17 j 18:06	19°♎46'52		greatest brilliancy	1491 Feb 11 j 16:53	1°♎33'22	-1.3m
desc. node	1485 Nov 28 j 03:12	27°♎07'17		min. Earth dist.	1491 Feb 13 j 01:28	1°♎01'00	0.67483 AU
	1485 Dec 02 j 04:10	0°♎			1491 Feb 15 j 15:17	30°♎	
	1486 Jan 12 j 09:19	0°♎		direct	1491 Mar 24 j 16:06	21°♎41'10	
	1486 Feb 21 j 07:32	0°♎			1491 May 04 j 10:50	0°♎	
	1486 Apr 01 j 14:02	0°♎			1491 Jul 04 j 23:40	0°♎	
	1486 May 11 j 02:57	0°♎		desc. node	1491 Jul 21 j 00:06	9°♎31'52	
	1486 Jun 21 j 07:47	0°♎			1491 Aug 22 j 00:46	0°♎	
	1486 Aug 06 j 00:35	0°♎			1491 Oct 04 j 02:38	0°♎	
asc. node	1486 Sep 27 j 18:44	25°♎18'09			1491 Nov 13 j 06:24	0°♎	
retrograde	1486 Oct 24 j 15:36	29°♎48'27			1491 Dec 21 j 18:59	0°♎	
min. Earth dist.	1486 Nov 26 j 22:17	22°♎23'00	0.58143 AU	evening set	1492 Jan 17 j 09:15	21°♎00'37	
opposition	1486 Dec 02 j 23:06	20°♎00'28	2°48'28		1492 Jan 28 j 18:30	0°♎	
greatest brilliancy	1486 Dec 02 j 07:12	20°♎16'08	-1.7m		1492 Mar 07 j 04:35	0°♎	
direct	1487 Jan 08 j 17:50	11°♎34'00					
	1487 Mar 14 j 16:41	0°♎		conjunction	1492 Mar 25 j 01:52	13°♎40'04	-0°34'31
	1487 May 11 j 05:59	0°♎		minimum elong	1492 Mar 25 j 04:31	13°♎45'05	0°34'30
	1487 Jul 01 j 04:08	0°♎			1492 Apr 15 j 21:24	0°♎	
	1487 Aug 17 j 19:05	0°♎		max. Earth dist.	1492 May 13 j 05:12	19°♎52'50	2.45659 AU
evening set	1487 Sep 25 j 07:17	25°♎38'13		asc. node	1492 May 19 j 14:58	24°♎26'44	
	1487 Oct 01 j 16:06	0°♎		morning rise	1492 May 27 j 20:58	0°♎16'17	
max. Earth dist.	1487 Oct 10 j 22:13	6°♎24'23	2.51195 AU		1492 May 27 j 11:42	0°♎	
desc. node	1487 Oct 16 j 01:43	10°♎00'09			1492 Jul 10 j 08:44	0°♎	
	1487 Nov 13 j 02:20	0°♎			1492 Aug 25 j 18:58	0°♎	
					1492 Oct 14 j 14:12	0°♎	
conjunction	1487 Nov 14 j 14:48	1°♎06'13	-0°17'58		1492 Dec 11 j 10:44	0°♎	
minimum elong	1487 Nov 14 j 13:56	1°♎04'38	0°17'56	retrograde	1493 Feb 07 j 23:34	15°♎22'42	
	1487 Dec 23 j 12:24	0°♎		opposition	1493 Mar 18 j 05:54	6°♎43'21	3°01'27
morning rise	1488 Jan 09 j 04:40	12°♎43'02		greatest brilliancy	1493 Mar 18 j 20:24	6°♎29'22	-1.5m
	1488 Jan 31 j 13:23	0°♎		min. Earth dist.	1493 Mar 23 j 14:38	4°♎39'28	0.62348 AU
	1488 Mar 09 j 23:20	0°♎			1493 Apr 06 j 06:12	30°♎	
	1488 Apr 17 j 15:02	0°♎		direct	1493 Apr 28 j 10:17	26°♎46'17	
	1488 May 27 j 11:43	0°♎			1493 May 22 j 01:50	0°♎	
	1488 Jul 08 j 16:48	0°♎		desc. node	1493 Jun 06 j 23:02	5°♎05'55	
asc. node	1488 Aug 14 j 17:07	24°♎11'22			1493 Jul 26 j 17:10	0°♎	
	1488 Aug 24 j 05:51	0°♎			1493 Sep 10 j 20:39	0°♎	
	1488 Oct 22 j 22:33	0°♎			1493 Oct 22 j 00:59	0°♎	
retrograde	1488 Nov 29 j 05:31	7°♎35'37			1493 Nov 30 j 00:33	0°♎	
	1489 Jan 02 j 14:03	30°♎			1494 Jan 07 j 08:10	0°♎	
min. Earth dist.	1489 Jan 06 j 02:28	28°♎36'10	0.66028 AU		1494 Feb 15 j 03:13	0°♎	
opposition	1489 Jan 08 j 09:58	27°♎40'28	4°23'24	evening set	1494 Mar 25 j 21:16	28°♎59'15	
greatest brilliancy	1489 Jan 08 j 00:28	27°♎50'01	-1.4m		1494 Mar 27 j 06:28	0°♎	
direct	1489 Feb 17 j 02:06	18°♎13'34		asc. node	1494 Apr 06 j 13:34	7°♎29'13	
	1489 Apr 08 j 07:43	0°♎			1494 May 08 j 06:49	0°♎	
	1489 Jun 07 j 22:32	0°♎					
	1489 Jul 28 j 01:07	0°♎		conjunction	1494 May 23 j 01:51	10°♎13'29	0°27'55
desc. node	1489 Sep 02 j 00:32	23°♎29'14		minimum elong	1494 May 23 j 00:27	10°♎11'05	0°27'54
	1489 Sep 11 j 14:42	0°♎		max. Earth dist.	1494 Jun 20 j 09:02	29°♎20'47	2.57942 AU
	1489 Oct 24 j 00:00	0°♎			1494 Jun 21 j 08:36	0°♎	
evening set	1489 Nov 12 j 08:00	14°♎17'49		morning rise	1494 Jul 14 j 10:18	15°♎11'48	
	1489 Dec 03 j 01:38	0°♎			1494 Aug 06 j 08:15	0°♎	
max. Earth dist.	1489 Dec 11 j 00:55	6°♎07'20	2.38620 AU		1494 Sep 23 j 00:58	0°♎	
	1490 Jan 10 j 16:16	0°♎			1494 Nov 11 j 18:13	0°♎	
					1495 Jan 05 j 00:18	0°♎	
conjunction	1490 Jan 11 j 20:29	0°♎55'26	-1°03'02	retrograde	1495 Mar 26 j 16:22	26°♎01'34	
minimum elong	1490 Jan 11 j 19:10	0°♎52'51	1°03'01	desc. node	1495 Apr 24 j 21:17	20°♎51'30	
	1490 Feb 17 j 17:22	0°♎		opposition	1495 Apr 30 j 22:57	18°♎46'44	-0°17'52
morning rise	1490 Mar 22 j 10:48	25°♎37'12		greatest brilliancy	1495 May 01 j 01:14	18°♎44'44	-2.1m
	1490 Mar 28 j 02:37	0°♎		min. Earth dist.	1495 May 09 j 06:16	15°♎51'24	0.51254 AU

direct	1495 Jun 08 j 17:03	9° \mathbb{M} 54'28		minimum elong	1500 Sep 16 j 17:32	2° \mathbb{A} 59'21	0°46'48
	1495 Aug 09 j 15:58	0° \mathbb{A}			1500 Oct 27 j 05:05	0° \mathbb{M}	
	1495 Sep 26 j 00:34	0° \mathbb{Z}		morning rise	1500 Nov 01 j 05:28	3° \mathbb{M} 24'49	
	1495 Nov 06 j 06:53	0° \approx			1500 Dec 09 j 12:44	0° \mathbb{A}	
	1495 Dec 15 j 23:33	0° \mathbb{H}		desc. node	1500 Dec 14 j 18:36	3° \mathbb{A} 42'44	
	1496 Jan 24 j 21:25	0° \mathbb{Y}			1501 Jan 20 j 06:18	0° \mathbb{Z}	
asc. node	1496 Feb 22 j 13:33	21° \mathbb{Y} 01'43			1501 Mar 01 j 18:34	0° \approx	
	1496 Mar 06 j 00:58	0° \mathbb{B}			1501 Apr 10 j 16:00	0° \mathbb{H}	
	1496 Apr 17 j 22:33	0° \mathbb{II}			1501 May 20 j 23:15	0° \mathbb{Y}	
evening set	1496 May 16 j 02:05	19° \mathbb{II} 00'50			1501 Jul 02 j 15:22	0° \mathbb{B}	
	1496 Jun 01 j 15:54	0° \mathbb{G}			1501 Aug 23 j 00:07	0° \mathbb{II}	
				retrograde	1501 Oct 08 j 13:57	12° \mathbb{II} 34'01	
conjunction	1496 Jul 05 j 05:27	21° \mathbb{G} 52'16	1°02'45	asc. node	1501 Oct 14 j 10:35	12° \mathbb{II} 18'48	
minimum elong	1496 Jul 05 j 04:26	21° \mathbb{G} 50'38	1°02'45	min. Earth dist.	1501 Nov 08 j 17:58	5° \mathbb{II} 54'58	0.53530 AU
max. Earth dist.	1496 Jul 15 j 16:47	28° \mathbb{G} 36'55	2.65445 AU	opposition	1501 Nov 16 j 00:28	3° \mathbb{II} 08'02	1°34'01
	1496 Jul 17 j 20:33	0° \mathbb{Q}		greatest brilliancy	1501 Nov 15 j 13:18	3° \mathbb{II} 18'43	-2.0m
morning rise	1496 Aug 20 j 17:02	21° \mathbb{Q} 36'01			1501 Nov 24 j 15:41	30° \mathbb{R} \mathbb{B}	
	1496 Sep 02 j 22:56	0° \mathbb{M}		direct	1501 Dec 21 j 06:50	25° \mathbb{B} 17'18	
	1496 Oct 20 j 11:26	0° \mathbb{A}			1502 Jan 19 j 11:03	0° \mathbb{II}	
	1496 Dec 07 j 09:03	0° \mathbb{M}			1502 Mar 27 j 20:29	0° \mathbb{G}	
	1497 Jan 25 j 09:40	0° \mathbb{A}			1502 May 19 j 23:37	0° \mathbb{Q}	
desc. node	1497 Mar 11 j 20:29	26° \mathbb{A} 00'54			1502 Jul 08 j 15:11	0° \mathbb{M}	
	1497 Mar 19 j 09:41	0° \mathbb{Z}			1502 Aug 24 j 19:57	0° \mathbb{A}	
retrograde	1497 Jun 02 j 00:39	24° \mathbb{Z} 25'16		evening set	1502 Sep 09 j 03:57	10° \mathbb{A} 05'12	
opposition	1497 Jul 02 j 17:10	19° \mathbb{Z} 14'44	-5°57'51	max. Earth dist.	1502 Sep 27 j 11:31	22° \mathbb{A} 22'10	2.55719 AU
greatest brilliancy	1497 Jul 03 j 16:09	18° \mathbb{Z} 58'39	-2.8m		1502 Oct 08 j 15:50	0° \mathbb{M}	
min. Earth dist.	1497 Jul 07 j 11:59	17° \mathbb{Z} 54'45	0.39043 AU				
direct	1497 Aug 03 j 15:58	13° \mathbb{Z} 29'03		conjunction	1502 Oct 27 j 07:00	12° \mathbb{M} 56'29	0°03'20
	1497 Sep 26 j 19:23	0° \approx		minimum elong	1502 Oct 27 j 07:07	12° \mathbb{M} 56'40	0°03'20
	1497 Nov 15 j 06:37	0° \mathbb{H}		behind sun begin	1502 Oct 26 j 10:36	12° \mathbb{M} 20'42	
	1497 Dec 29 j 15:03	0° \mathbb{Y}		behind sun end	1502 Oct 28 j 03:37	13° \mathbb{M} 32'41	
asc. node	1498 Jan 09 j 12:21	7° \mathbb{Y} 27'16		desc. node	1502 Nov 01 j 17:37	16° \mathbb{M} 46'36	
	1498 Feb 11 j 14:36	0° \mathbb{B}			1502 Nov 20 j 05:53	0° \mathbb{A}	
	1498 Mar 28 j 11:50	0° \mathbb{II}		morning rise	1502 Dec 17 j 13:45	20° \mathbb{A} 01'11	
	1498 May 13 j 13:34	0° \mathbb{G}			1502 Dec 30 j 22:10	0° \mathbb{Z}	
evening set	1498 Jun 26 j 14:57	28° \mathbb{G} 09'36			1503 Feb 08 j 05:56	0° \approx	
	1498 Jun 29 j 12:24	0° \mathbb{Q}			1503 Mar 18 j 22:10	0° \mathbb{H}	
max. Earth dist.	1498 Aug 08 j 07:06	25° \mathbb{Q} 16'43	2.67539 AU		1503 Apr 26 j 19:28	0° \mathbb{Y}	
					1503 Jun 05 j 23:17	0° \mathbb{B}	
conjunction	1498 Aug 11 j 23:18	27° \mathbb{Q} 37'05	1°07'43		1503 Jul 18 j 20:57	0° \mathbb{II}	
minimum elong	1498 Aug 11 j 23:44	27° \mathbb{Q} 37'47	1°07'43	asc. node	1503 Sep 01 j 09:42	27° \mathbb{II} 30'57	
	1498 Aug 15 j 17:01	0° \mathbb{M}			1503 Sep 05 j 21:49	0° \mathbb{G}	
morning rise	1498 Sep 25 j 09:17	26° \mathbb{M} 04'28		retrograde	1503 Nov 16 j 13:12	23° \mathbb{G} 55'07	
	1498 Oct 01 j 11:06	0° \mathbb{A}		min. Earth dist.	1503 Dec 22 j 18:18	15° \mathbb{G} 29'00	0.63679 AU
	1498 Nov 16 j 08:09	0° \mathbb{M}		opposition	1503 Dec 26 j 14:00	13° \mathbb{G} 57'12	4°00'07
	1498 Dec 31 j 05:38	0° \mathbb{A}		greatest brilliancy	1503 Dec 25 j 24:00	14° \mathbb{G} 11'13	-1.5m
desc. node	1499 Jan 27 j 20:00	18° \mathbb{A} 44'31		direct	1504 Feb 03 j 07:24	4° \mathbb{G} 49'48	
	1499 Feb 13 j 06:41	0° \mathbb{Z}			1504 Apr 22 j 23:34	0° \mathbb{Q}	
	1499 Mar 28 j 21:35	0° \approx			1504 Jun 16 j 20:26	0° \mathbb{M}	
	1499 May 12 j 08:08	0° \mathbb{H}			1504 Aug 04 j 16:39	0° \mathbb{A}	
	1499 Jul 02 j 03:44	0° \mathbb{Y}		desc. node	1504 Sep 18 j 16:59	29° \mathbb{A} 51'54	
retrograde	1499 Aug 18 j 11:48	13° \mathbb{Y} 19'48			1504 Sep 18 j 21:42	0° \mathbb{M}	
min. Earth dist.	1499 Sep 14 j 00:08	8° \mathbb{Y} 43'38	0.40748 AU	evening set	1504 Oct 22 j 12:18	23° \mathbb{M} 39'12	
greatest brilliancy	1499 Sep 20 j 04:49	6° \mathbb{Y} 48'59	-2.7m		1504 Oct 31 j 06:29	0° \mathbb{A}	
opposition	1499 Sep 21 j 01:50	6° \mathbb{Y} 32'42	-4°00'45	max. Earth dist.	1504 Nov 07 j 10:23	5° \mathbb{A} 14'47	2.43329 AU
direct	1499 Oct 21 j 17:28	0° \mathbb{Y} 52'37			1504 Dec 10 j 10:35	0° \mathbb{Z}	
asc. node	1499 Nov 27 j 10:49	8° \mathbb{Y} 28'48					
	1500 Jan 11 j 19:18	0° \mathbb{B}		conjunction	1504 Dec 17 j 06:09	5° \mathbb{Z} 12'56	-0°50'04
	1500 Mar 03 j 15:25	0° \mathbb{II}		minimum elong	1504 Dec 17 j 03:53	5° \mathbb{Z} 08'36	0°50'03
	1500 Apr 21 j 23:35	0° \mathbb{G}			1505 Jan 18 j 04:17	0° \approx	
	1500 Jun 09 j 14:41	0° \mathbb{Q}		morning rise	1505 Feb 20 j 00:21	25° \mathbb{A} 49'21	
	1500 Jul 27 j 11:58	0° \mathbb{M}			1505 Feb 25 j 07:46	0° \mathbb{H}	
evening set	1500 Aug 02 j 01:10	3° \mathbb{M} 31'17			1505 Apr 04 j 18:10	0° \mathbb{Y}	
max. Earth dist.	1500 Aug 30 j 18:31	21° \mathbb{M} 56'22	2.64206 AU		1505 May 14 j 08:48	0° \mathbb{B}	
	1500 Sep 12 j 03:57	0° \mathbb{A}			1505 Jun 25 j 00:46	0° \mathbb{II}	
				asc. node	1505 Jul 19 j 07:19	16° \mathbb{II} 34'55	
conjunction	1500 Sep 16 j 16:22	2° \mathbb{A} 57'26	0°46'49		1505 Aug 08 j 19:26	0° \mathbb{G}	

	1505 Sep 28 j 03:40	0°♏			1510 Oct 06 j 23:48	0°♄		
retrograde	1505 Dec 20 j 06:04	28°♏27'10			1510 Nov 15 j 22:05	0°♁		
opposition	1506 Jan 29 j 08:00	18°♏45'26	4°33'01		1510 Dec 24 j 20:30	0°♂		
greatest brilliancy	1506 Jan 29 j 07:20	18°♏46'05	-1.3m		1511 Feb 02 j 04:17	0°♐		
min. Earth dist.	1506 Jan 29 j 09:10	18°♏44'16	0.67714 AU	asc. node	1511 Mar 11 j 05:20	27°♐23'52		
direct	1506 Mar 11 j 02:22	8°♏56'58			1511 Mar 14 j 19:34	0°♄		
	1506 May 20 j 22:31	0°♐			1511 Apr 26 j 06:47	0°♐		
	1506 Jul 14 j 08:14	0°♐		evening set	1511 Apr 28 j 11:27	1°♐30'48		
desc. node	1506 Aug 06 j 15:48	14°♐33'41			1511 Jun 09 j 16:14	0°♄		
	1506 Aug 30 j 02:03	0°♐						
	1506 Oct 11 j 19:14	0°♐		conjunction	1511 Jun 20 j 04:18	6°♄55'40	0°53'02	
	1506 Nov 20 j 21:08	0°♄		minimum elong	1511 Jun 20 j 02:50	6°♄53'15	0°53'01	
evening set	1506 Dec 20 j 12:22	23°♄00'45		max. Earth dist.	1511 Jul 07 j 00:59	17°♄56'28	2.63137 AU	
	1506 Dec 29 j 09:39	0°♁			1511 Jul 25 j 17:09	0°♏		
	1507 Feb 05 j 08:51	0°♂		morning rise	1511 Aug 07 j 09:57	8°♏07'52		
conjunction	1507 Feb 25 j 17:21	16°♂00'09	-0°55'59		1511 Sep 10 j 22:23	0°♐		
minimum elong	1507 Feb 25 j 20:17	16°♂05'52	0°55'57		1511 Oct 29 j 01:02	0°♐		
	1507 Mar 15 j 17:26	0°♐			1511 Dec 17 j 11:18	0°♐		
max. Earth dist.	1507 Apr 16 j 16:13	24°♐18'23	2.40271 AU	desc. node	1512 Feb 08 j 13:20	0°♐		
	1507 Apr 24 j 07:39	0°♄		retrograde	1512 Mar 28 j 11:51	21°♐56'28		
morning rise	1507 May 05 j 10:38	8°♄11'41		opposition	1512 May 03 j 01:00	28°♐34'48		
	1507 Jun 04 j 19:40	0°♐		greatest brilliancy	1512 Jun 04 j 09:39	22°♐37'01	-3°41'53	
asc. node	1507 Jun 06 j 07:07	1°♐02'19		min. Earth dist.	1512 Jun 05 j 09:39	22°♐18'19	-2.5m	
	1507 Jul 18 j 17:26	0°♄		direct	1512 Jun 12 j 04:05	20°♐12'06	0.43179 AU	
	1507 Sep 03 j 14:32	0°♏			1512 Jul 09 j 14:15	15°♐27'14		
	1507 Oct 25 j 05:29	0°♐			1512 Aug 28 j 13:24	0°♄		
	1508 Jan 06 j 13:28	0°♐			1512 Oct 16 j 18:58	0°♁		
retrograde	1508 Jan 24 j 20:18	1°♐53'13			1512 Nov 28 j 09:56	0°♂		
	1508 Feb 10 j 23:12	30°♐		asc. node	1513 Jan 09 j 02:21	0°♐		
opposition	1508 Mar 03 j 20:35	22°♐51'29	3°44'05		1513 Jan 26 j 04:11	12°♐10'34		
greatest brilliancy	1508 Mar 04 j 08:58	22°♐39'23	-1.4m		1513 Feb 20 j 12:41	0°♄		
min. Earth dist.	1508 Mar 07 j 18:23	21°♐19'49	0.65127 AU		1513 Apr 05 j 09:41	0°♐		
direct	1508 Apr 14 j 06:04	12°♐49'44		evening set	1513 May 20 j 19:31	0°♄		
	1508 Jun 14 j 02:42	0°♐			1513 Jun 11 j 05:53	13°♄52'29		
desc. node	1508 Jun 23 j 14:17	4°♐41'38			1513 Jul 06 j 09:22	0°♏		
	1508 Aug 06 j 07:45	0°♐		conjunction	1513 Jul 28 j 15:49	14°♏11'57	1°09'02	
	1508 Sep 19 j 17:54	0°♐		minimum elong	1513 Jul 28 j 15:43	14°♏11'47	1°09'03	
	1508 Oct 30 j 08:53	0°♄		max. Earth dist.	1513 Jul 30 j 06:57	15°♏14'16	2.67381 AU	
	1508 Dec 08 j 02:15	0°♁			1513 Aug 22 j 11:33	0°♐		
	1509 Jan 15 j 05:19	0°♂		morning rise	1513 Sep 11 j 12:14	12°♐46'04		
	1509 Feb 22 j 19:28	0°♐			1513 Oct 08 j 10:28	0°♐		
evening set	1509 Feb 28 j 19:43	4°♐35'47			1513 Nov 23 j 21:38	0°♐		
	1509 Apr 03 j 17:07	0°♄			1514 Jan 08 j 21:24	0°♐		
asc. node	1509 Apr 23 j 06:57	14°♄14'26		desc. node	1514 Feb 13 j 11:37	23°♐16'57		
conjunction	1509 May 02 j 08:13	20°♄42'53	0°05'45		1514 Feb 23 j 18:53	0°♄		
minimum elong	1509 May 02 j 07:49	20°♄42'10	0°05'45		1514 Apr 11 j 17:03	0°♁		
behind sun begin	1509 May 01 j 08:27	20°♄00'37		retrograde	1514 Jun 03 j 23:41	0°♂		
behind sun end	1509 May 03 j 07:11	21°♄23'41		min. Earth dist.	1514 Jul 22 j 01:06	13°♄02'59		
	1509 May 15 j 11:58	0°♐		opposition	1514 Aug 18 j 20:03	8°♄31'14	0.37753 AU	
max. Earth dist.	1509 Jun 07 j 23:53	16°♐14'03	2.53587 AU	greatest brilliancy	1514 Aug 22 j 03:37	7°♄36'32	-6°18'23	
morning rise	1509 Jun 27 j 12:12	29°♐23'49		direct	1514 Aug 21 j 14:19	7°♄45'42	-2.9m	
	1509 Jun 28 j 09:54	0°♄			1514 Sep 20 j 17:10	2°♄38'01		
	1509 Aug 13 j 10:44	0°♏		asc. node	1514 Dec 06 j 10:57	0°♐		
	1509 Sep 30 j 15:58	0°♐			1514 Dec 14 j 03:35	4°♐21'46		
	1509 Nov 21 j 03:41	0°♐			1515 Jan 25 j 14:42	0°♄		
	1510 Jan 22 j 14:27	0°♐			1515 Mar 14 j 08:33	0°♐		
retrograde	1510 Mar 06 j 18:15	9°♐07'13			1515 Apr 30 j 23:50	0°♄		
opposition	1510 Apr 12 j 10:01	1°♐13'29	1°17'38	evening set	1515 Jun 17 j 19:13	0°♏		
greatest brilliancy	1510 Apr 12 j 19:30	1°♐04'43	-1.8m		1515 Jul 19 j 15:47	20°♏03'38		
	1510 Apr 15 j 17:15	30°♐		max. Earth dist.	1515 Aug 04 j 08:10	0°♐		
min. Earth dist.	1510 Apr 19 j 19:44	28°♐29'35	0.56172 AU		1515 Aug 22 j 10:20	11°♐32'50	2.66160 AU	
desc. node	1510 May 11 j 13:09	22°♐32'55		conjunction	1515 Sep 03 j 05:04	19°♐07'18	0°57'48	
direct	1510 May 22 j 12:41	21°♐43'44		minimum elong	1515 Sep 03 j 06:06	19°♐08'58	0°57'48	
	1510 Jun 29 j 17:47	0°♐			1515 Sep 19 j 23:41	0°♐		
	1510 Aug 24 j 14:28	0°♐		morning rise	1515 Oct 17 j 21:18	18°♐21'33		

	1515 Nov 04 j 07:00	0°♌		greatest brilliancy	1521 Jan 15 j 20:34	5°♏51'17	-1.3m
	1515 Dec 18 j 02:21	0°♐			1521 Jan 31 j 18:21	30°♑♌	
desc. node	1516 Jan 01 j 11:21	10°♐03'59		direct	1521 Feb 25 j 06:19	26°♌09'04	
	1516 Jan 29 j 12:12	0°♑			1521 Mar 24 j 01:57	0°♏	
	1516 Mar 10 j 19:52	0°♒			1521 Jun 01 j 11:22	0°♑	
	1516 Apr 20 j 16:32	0°♓			1521 Jul 22 j 18:52	0°♎	
	1516 Jun 01 j 10:19	0°♑		desc. node	1521 Aug 23 j 07:24	20°♎17'33	
	1516 Jul 17 j 18:24	0°♒			1521 Sep 06 j 17:49	0°♌	
retrograde	1516 Sep 20 j 15:07	22°♒40'53			1521 Oct 19 j 06:04	0°♐	
min. Earth dist.	1516 Oct 19 j 14:46	16°♒52'34	0.48400 AU	evening set	1521 Nov 25 j 06:49	27°♐40'10	
opposition	1516 Oct 27 j 16:27	13°♒56'48	-0°10'57		1521 Nov 28 j 07:57	0°♑	
greatest brilliancy	1516 Feb 06 j 20:44	6°♑00'51	0.7m		1522 Jan 05 j 21:40	0°♒	
asc. node	1516 Oct 31 j 01:54	12°♒43'55		max. Earth dist.	1522 Jan 23 j 21:46	14°♒12'03	2.37108 AU
direct	1516 Nov 30 j 05:50	6°♒50'50					
	1517 Feb 11 j 05:41	0°♑		conjunction	1522 Jan 27 j 14:13	17°♒06'49	-1°04'52
	1517 Apr 07 j 06:54	0°♌		minimum elong	1522 Jan 27 j 14:26	17°♒07'15	1°04'52
	1517 May 28 j 00:51	0°♏			1522 Feb 12 j 21:46	0°♓	
	1517 Jul 15 j 19:42	0°♑			1522 Mar 23 j 06:14	0°♑	
evening set	1517 Aug 24 j 22:47	25°♑34'34		morning rise	1522 Apr 08 j 05:07	12°♑14'41	
	1517 Aug 31 j 17:53	0°♎			1522 May 01 j 19:26	0°♒	
max. Earth dist.	1517 Sep 15 j 22:11	9°♎59'26	2.59651 AU		1522 Jun 12 j 07:06	0°♑	
				asc. node	1522 Jun 22 j 23:29	7°♑27'19	
conjunction	1517 Oct 10 j 14:57	26°♎35'04	0°22'32		1522 Jul 26 j 08:48	0°♌	
minimum elong	1517 Oct 10 j 15:45	26°♎36'27	0°22'31		1522 Sep 12 j 00:35	0°♏	
	1517 Oct 15 j 15:01	0°♌			1522 Nov 06 j 00:56	0°♑	
desc. node	1517 Nov 18 j 09:43	23°♌32'47		retrograde	1523 Jan 10 j 14:19	18°♑54'27	
morning rise	1517 Nov 27 j 21:03	0°♐18'08		opposition	1523 Feb 19 j 03:59	9°♑34'25	4°12'40
	1517 Nov 27 j 10:56	0°♐		greatest brilliancy	1523 Feb 19 j 12:02	9°♑26'28	-1.3m
	1518 Jan 07 j 11:41	0°♑		min. Earth dist.	1523 Feb 21 j 13:38	8°♑37'29	0.66922 AU
	1518 Feb 16 j 04:25	0°♒			1523 Mar 24 j 06:40	30°♒♏	
	1518 Mar 27 j 05:03	0°♓		direct	1523 Apr 01 j 12:06	29°♏34'18	
	1518 May 05 j 10:37	0°♑			1523 Apr 09 j 23:53	0°♑	
	1518 Jun 15 j 02:36	0°♒			1523 Jun 28 j 02:47	0°♎	
	1518 Jul 29 j 07:39	0°♑		desc. node	1523 Jul 11 j 06:08	7°♎27'38	
asc. node	1518 Sep 18 j 01:15	27°♑56'10			1523 Aug 16 j 12:27	0°♌	
	1518 Sep 22 j 22:08	0°♌			1523 Sep 29 j 00:29	0°♐	
retrograde	1518 Nov 02 j 06:15	9°♌16'26			1523 Nov 08 j 08:09	0°♑	
min. Earth dist.	1518 Dec 06 j 15:02	1°♌28'17	0.60361 AU		1523 Dec 16 j 22:10	0°♒	
	1518 Dec 10 j 08:03	30°♒♑			1524 Jan 23 j 22:28	0°♓	
opposition	1518 Dec 11 j 22:07	29°♑22'11	3°20'44	evening set	1524 Feb 02 j 08:38	7°♓24'46	
greatest brilliancy	1518 Dec 11 j 05:47	29°♑38'23	-1.6m		1524 Mar 02 j 09:11	0°♑	
direct	1519 Jan 18 j 11:28	20°♑39'20					
	1519 Mar 03 j 00:12	0°♌		conjunction	1524 Apr 08 j 18:45	28°♑16'45	-0°19'50
	1519 May 04 j 22:39	0°♏		minimum elong	1524 Apr 08 j 20:18	28°♑19'37	0°19'49
	1519 Jun 25 j 23:53	0°♑			1524 Apr 11 j 02:33	0°♒	
	1519 Aug 13 j 00:22	0°♎		asc. node	1524 May 09 j 22:20	20°♒56'32	
	1519 Sep 27 j 00:26	0°♌			1524 May 22 j 17:17	0°♑	
evening set	1519 Oct 05 j 01:29	5°♌33'38		max. Earth dist.	1524 May 23 j 23:30	0°♑53'01	2.48606 AU
desc. node	1519 Oct 06 j 08:09	6°♌26'56		morning rise	1524 Jun 08 j 16:26	11°♑48'01	
max. Earth dist.	1519 Oct 19 j 20:24	15°♌56'22	2.48466 AU		1524 Jul 05 j 13:11	0°♌	
	1519 Nov 08 j 10:30	0°♐			1524 Aug 20 j 18:09	0°♏	
					1524 Oct 08 j 19:09	0°♑	
conjunction	1519 Nov 25 j 23:34	12°♐53'04	-0°30'20		1524 Dec 02 j 08:41	0°♎	
minimum elong	1519 Nov 25 j 22:04	12°♐50'16	0°30'18	retrograde	1525 Feb 17 j 05:40	23°♎58'48	
	1519 Dec 18 j 18:47	0°♑		opposition	1525 Mar 26 j 23:59	15°♎34'01	2°28'52
morning rise	1520 Jan 23 j 13:29	27°♑32'28		greatest brilliancy	1525 Mar 27 j 14:03	15°♎20'38	-1.6m
	1520 Jan 26 j 17:14	0°♒		min. Earth dist.	1525 Apr 02 j 03:16	13°♎14'04	0.60375 AU
	1520 Mar 05 j 00:48	0°♓		direct	1525 May 06 j 21:57	5°♎43'40	
	1520 Apr 12 j 14:07	0°♑		desc. node	1525 May 28 j 04:19	8°♎24'43	
	1520 May 22 j 07:20	0°♒			1525 Jul 18 j 14:24	0°♌	
	1520 Jul 03 j 05:18	0°♑			1525 Sep 04 j 16:32	0°♐	
asc. node	1520 Aug 05 j 01:01	21°♑54'52			1525 Oct 16 j 11:23	0°♑	
	1520 Aug 17 j 20:22	0°♌			1525 Nov 24 j 17:30	0°♒	
	1520 Oct 11 j 03:03	0°♏			1526 Jan 02 j 05:23	0°♓	
retrograde	1520 Dec 06 j 22:10	15°♏36'10			1526 Feb 10 j 03:56	0°♑	
min. Earth dist.	1521 Jan 14 j 15:25	6°♏20'30	0.66902 AU		1526 Mar 22 j 10:08	0°♒	
opposition	1521 Jan 16 j 03:07	5°♏44'43	4°30'38	asc. node	1526 Mar 27 j 22:07	3°♒59'53	

evening set	1526 Apr 07 j 17:40	11°♄47'19			1531 Mar 21 j 20:58	0°♁	
	1526 May 03 j 13:03	0°♂			1531 May 03 j 12:32	0°♄	
					1531 Jun 17 j 18:45	0°♂	
conjunction	1526 Jun 02 j 18:11	20°♂40'51	0°38'30	retrograde	1531 Aug 31 j 20:58	29°♂00'33	
minimum elong	1526 Jun 02 j 16:36	20°♂38'10	0°38'28	min. Earth dist.	1531 Sep 27 j 22:26	24°♂02'34	0.43233 AU
	1526 Jun 16 j 16:11	0°♄		opposition	1531 Oct 05 j 20:09	21°♂25'48	-2°31'05
max. Earth dist.	1526 Jun 26 j 20:32	6°♄44'30	2.60005 AU	greatest brilliancy	1531 Oct 05 j 04:27	21°♂38'51	-2.6m
morning rise	1526 Jul 23 j 10:07	24°♄04'22		direct	1531 Nov 06 j 13:37	15°♂14'16	
	1526 Aug 01 j 15:07	0°♂		asc. node	1531 Nov 17 j 18:38	16°♂02'53	
	1526 Sep 18 j 02:05	0°♄			1531 Dec 30 j 19:55	0°♄	
	1526 Nov 06 j 01:55	0°♂			1532 Feb 25 j 14:45	0°♂	
	1526 Dec 27 j 23:46	0°♂			1532 Apr 16 j 09:09	0°♄	
	1527 Mar 02 j 00:48	0°♄			1532 Jun 04 j 15:14	0°♂	
retrograde	1527 Apr 08 j 09:27	7°♄09'23			1532 Jul 22 j 19:25	0°♄	
desc. node	1527 Apr 15 j 04:08	6°♄52'20		evening set	1532 Aug 10 j 07:46	11°♄45'24	
opposition	1527 May 12 j 17:23	0°♄20'19	-1°25'05	max. Earth dist.	1532 Sep 05 j 10:59	28°♄37'23	2.62801 AU
greatest brilliancy	1527 May 13 j 03:58	0°♄11'19	-2.2m		1532 Sep 07 j 13:36	0°♂	
	1527 May 13 j 17:15	30°♄♂					
min. Earth dist.	1527 May 21 j 06:07	27°♂26'48	0.48318 AU	conjunction	1532 Sep 25 j 04:15	11°♂35'34	0°38'49
direct	1527 Jun 19 j 10:57	21°♂58'15		minimum elong	1532 Sep 25 j 05:22	11°♂37'26	0°38'49
	1527 Jul 25 j 19:00	0°♄			1532 Oct 22 j 13:34	0°♂	
	1527 Sep 17 j 21:01	0°♄		morning rise	1532 Nov 10 j 11:05	12°♂59'12	
	1527 Oct 30 j 14:20	0°♁			1532 Dec 04 j 16:55	0°♄	
	1527 Dec 09 j 23:32	0°♄		desc. node	1532 Dec 05 j 01:11	0°♄14'40	
	1528 Jan 19 j 08:30	0°♂			1533 Jan 15 j 04:10	0°♄	
asc. node	1528 Feb 12 j 20:06	17°♂49'59			1533 Feb 24 j 08:36	0°♁	
	1528 Feb 29 j 20:19	0°♄			1533 Apr 04 j 21:12	0°♄	
	1528 Apr 13 j 00:29	0°♂			1533 May 14 j 16:34	0°♂	
evening set	1528 May 25 j 22:56	28°♂42'09			1533 Jun 25 j 08:01	0°♄	
	1528 May 27 j 22:20	0°♄			1533 Aug 11 j 12:29	0°♂	
				asc. node	1533 Oct 04 j 18:06	21°♂55'21	
conjunction	1528 Jul 13 j 22:42	0°♂27'48	1°06'18	retrograde	1533 Oct 17 j 22:22	23°♂06'30	
minimum elong	1528 Jul 13 j 22:00	0°♂26'41	1°06'18	min. Earth dist.	1533 Nov 19 j 06:53	16°♂01'34	0.56170 AU
	1528 Jul 13 j 05:21	0°♂		opposition	1533 Nov 25 j 22:21	13°♂26'24	2°20'30
max. Earth dist.	1528 Jul 21 j 02:52	5°♂03'28	2.66374 AU	greatest brilliancy	1533 Nov 25 j 07:33	13°♂40'48	-1.9m
morning rise	1528 Aug 28 j 16:45	29°♂37'40		direct	1534 Jan 01 j 01:55	5°♂14'56	
	1528 Aug 29 j 06:49	0°♄			1534 Mar 19 j 21:36	0°♄	
	1528 Oct 15 j 13:28	0°♂			1534 May 14 j 06:42	0°♂	
	1528 Dec 01 j 20:37	0°♂			1534 Jul 03 j 15:36	0°♄	
	1529 Jan 18 j 12:26	0°♄			1534 Aug 20 j 03:02	0°♂	
desc. node	1529 Mar 02 j 03:37	26°♄03'17		evening set	1534 Sep 18 j 05:46	19°♂15'27	
	1529 Mar 08 j 19:52	0°♄			1534 Oct 04 j 00:55	0°♂	
	1529 May 04 j 21:29	0°♁		max. Earth dist.	1534 Oct 04 j 21:10	0°♂34'48	2.53303 AU
retrograde	1529 Jun 20 j 09:10	11°♁24'26		desc. node	1534 Oct 22 j 23:49	13°♂10'23	
opposition	1529 Jul 20 j 10:42	6°♁27'04	-6°44'42				
greatest brilliancy	1529 Jul 20 j 23:29	6°♁18'35	-2.9m	conjunction	1534 Nov 06 j 10:54	23°♂25'57	-0°08'48
min. Earth dist.	1529 Jul 22 j 15:13	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 20:32	1°♁16'49		behind sun begin	1534 Nov 05 j 16:08	22°♂52'23	
	1529 Nov 04 j 15:12	0°♄		behind sun end	1534 Nov 07 j 04:51	23°♂58'04	
	1529 Dec 22 j 02:22	0°♂			1534 Nov 15 j 13:58	0°♄	
asc. node	1529 Dec 30 j 18:25	5°♂42'20			1534 Dec 26 j 03:44	0°♄	
	1530 Feb 05 j 10:25	0°♄		morning rise	1534 Dec 29 j 22:13	2°♄50'57	
	1530 Mar 23 j 01:45	0°♂			1535 Feb 03 j 08:03	0°♁	
	1530 May 08 j 14:12	0°♄			1535 Mar 13 j 20:39	0°♄	
	1530 Jun 24 j 19:18	0°♂			1535 Apr 21 j 14:11	0°♂	
evening set	1530 Jul 05 j 03:46	6°♂33'25			1535 May 31 j 12:22	0°♄	
	1530 Aug 11 j 02:23	0°♄			1535 Jul 12 j 21:42	0°♂	
max. Earth dist.	1530 Aug 13 j 12:24	1°♄32'24	2.67285 AU	asc. node	1535 Aug 22 j 16:13	26°♂10'29	
					1535 Aug 29 j 03:27	0°♄	
conjunction	1530 Aug 20 j 02:06	5°♄43'56	1°05'08		1535 Nov 04 j 23:35	0°♂	
minimum elong	1530 Aug 20 j 02:47	5°♄45'02	1°05'08	retrograde	1535 Nov 24 j 10:53	2°♂18'56	
	1530 Sep 26 j 19:16	0°♂			1535 Dec 12 j 20:23	30°♄♄	
morning rise	1530 Oct 03 j 10:47	4°♂19'14		min. Earth dist.	1535 Dec 31 j 14:50	23°♄34'02	0.65104 AU
	1530 Nov 11 j 11:01	0°♂		opposition	1536 Jan 03 j 14:50	22°♄21'53	4°15'36
	1530 Dec 25 j 22:02	0°♄		greatest brilliancy	1536 Jan 03 j 03:06	22°♄33'39	-1.4m
desc. node	1531 Jan 18 j 02:20	15°♄57'02		direct	1536 Feb 11 j 21:58	13°♄03'06	
	1531 Feb 07 j 06:52	0°♄			1536 Apr 14 j 06:36	0°♂	

	1536 Jun 11 j 01:29	0°♍	conjunction	1541 May 14 j 11:13	2°♊35'50	0°19'04
	1536 Jul 30 j 15:36	0°♊	minimum elong	1541 May 14 j 10:08	2°♊33'56	0°19'04
desc. node	1536 Sep 08 j 22:36	26°♊28'01	max. Earth dist.	1541 Jun 15 j 10:29	24°♊28'16	2.56099 AU
	1536 Sep 14 j 02:58	0°♌		1541 Jun 23 j 16:34	0°♊	
	1536 Oct 26 j 13:20	0°♌	morning rise	1541 Jul 07 j 09:11	9°♊04'17	
evening set	1536 Nov 03 j 00:10	5°♌27'22		1541 Aug 08 j 15:26	0°♌	
max. Earth dist.	1536 Nov 22 j 23:56	20°♌21'04		1541 Sep 25 j 11:52	0°♌	
	1536 Dec 05 j 17:09	0°♍		1541 Nov 14 j 19:42	0°♊	
				1542 Jan 10 j 10:20	0°♌	
conjunction	1536 Dec 31 j 07:10	19°♍45'07	retrograde	1542 Mar 17 j 16:29	18°♌55'31	
minimum elong	1536 Dec 31 j 05:10	19°♍41'12	opposition	1542 Apr 22 j 15:22	11°♌22'13	0°25'52
	1537 Jan 13 j 09:39	0°♎	greatest brilliancy	1542 Apr 22 j 18:58	11°♌18'57	-2.0m
	1537 Feb 20 j 11:48	0°♏	min. Earth dist.	1542 Apr 30 j 15:09	8°♌29'35	0.53534 AU
morning rise	1537 Mar 09 j 02:21	13°♏02'48	desc. node	1542 May 01 j 19:26	8°♌04'56	
	1537 Mar 30 j 21:04	0°♐	direct	1542 Jun 01 j 02:42	2°♌10'45	
	1537 May 09 j 10:09	0°♑		1542 Aug 16 j 05:05	0°♌	
	1537 Jun 19 j 22:51	0°♒		1542 Sep 30 j 11:07	0°♍	
asc. node	1537 Jul 09 j 15:34	13°♒35'43		1542 Nov 10 j 01:36	0°♎	
	1537 Aug 03 j 08:19	0°♊		1542 Dec 19 j 08:49	0°♏	
	1537 Sep 21 j 07:58	0°♌		1543 Jan 27 j 23:05	0°♐	
	1537 Nov 23 j 19:44	0°♍	asc. node	1543 Mar 01 j 12:33	24°♐00'29	
retrograde	1537 Dec 27 j 22:23	6°♍11'18		1543 Mar 09 j 19:32	0°♑	
	1538 Jan 28 j 03:15	30°♎0		1543 Apr 21 j 10:56	0°♒	
opposition	1538 Feb 05 j 21:22	26°♎36'17	evening set	1543 May 09 j 07:44	12°♒11'11	
greatest brilliancy	1538 Feb 05 j 23:57	26°♎33'43		1543 Jun 04 j 23:23	0°♊	
min. Earth dist.	1538 Feb 06 j 18:36	26°♎15'09				
direct	1538 Mar 18 j 22:29	16°♎42'27	conjunction	1543 Jun 29 j 12:24	16°♊04'55	0°59'15
	1538 May 11 j 11:31	0°♍	minimum elong	1543 Jun 29 j 11:10	16°♊02'55	0°59'14
	1538 Jul 08 j 09:08	0°♊	max. Earth dist.	1543 Jul 12 j 18:57	24°♊40'38	2.64517 AU
desc. node	1538 Jul 27 j 22:06	11°♊52'47		1543 Jul 21 j 01:26	0°♌	
	1538 Aug 24 j 21:38	0°♌	morning rise	1543 Aug 15 j 16:46	16°♌23'03	
	1538 Oct 06 j 20:49	0°♌		1543 Sep 06 j 04:16	0°♍	
	1538 Nov 16 j 00:44	0°♍		1543 Oct 23 j 22:12	0°♊	
	1538 Dec 24 j 13:36	0°♎		1543 Dec 11 j 09:45	0°♌	
evening set	1539 Jan 05 j 01:12	9°♎03'44		1544 Jan 30 j 19:37	0°♌	
	1539 Jan 31 j 12:52	0°♏	desc. node	1544 Mar 18 j 18:40	25°♌27'00	
	1539 Mar 10 j 21:46	0°♐		1544 Mar 28 j 20:39	0°♍	
			retrograde	1544 May 19 j 09:03	13°♍00'10	
conjunction	1539 Mar 14 j 00:34	2°♐24'09	opposition	1544 Jun 19 j 18:08	7°♍30'31	-5°02'50
minimum elong	1539 Mar 14 j 03:43	2°♐30'13	greatest brilliancy	1544 Jun 20 j 20:28	7°♍11'08	-2.7m
	1539 Apr 19 j 12:22	0°♑	min. Earth dist.	1544 Jun 26 j 04:11	5°♍37'43	0.40679 AU
max. Earth dist.	1539 May 04 j 07:01	10°♑51'35	direct	1544 Jul 23 j 03:50	1°♍08'01	
morning rise	1539 May 19 j 03:45	21°♑35'14		1544 Oct 06 j 11:28	0°♎	
asc. node	1539 May 27 j 14:39	27°♑35'57		1544 Nov 20 j 20:14	0°♏	
	1539 May 31 j 00:18	0°♒		1545 Jan 02 j 17:55	0°♐	
	1539 Jul 13 j 19:56	0°♊	asc. node	1545 Jan 16 j 11:46	9°♐36'58	
	1539 Aug 29 j 08:35	0°♌		1545 Feb 14 j 21:48	0°♑	
	1539 Oct 18 j 17:19	0°♍		1545 Mar 31 j 06:08	0°♒	
	1539 Dec 18 j 23:10	0°♊		1545 May 15 j 23:20	0°♊	
retrograde	1540 Feb 02 j 08:17	9°♊58'50	evening set	1545 Jun 20 j 03:32	22°♊36'44	
opposition	1540 Mar 11 j 23:46	1°♊08'45		1545 Jul 01 j 17:25	0°♌	
greatest brilliancy	1540 Mar 12 j 13:32	0°♊55'23				
	1540 Mar 14 j 22:34	30°♎0	conjunction	1545 Aug 05 j 21:46	22°♌23'24	1°08'44
min. Earth dist.	1540 Mar 16 j 17:01	29°♎19'01	minimum elong	1545 Aug 05 j 21:58	22°♌23'45	1°08'44
direct	1540 Apr 22 j 07:50	21°♎08'46	max. Earth dist.	1545 Aug 04 j 13:50	21°♌32'36	2.67577 AU
	1540 Jun 02 j 12:40	0°♊		1545 Aug 17 j 20:37	0°♍	
desc. node	1540 Jun 13 j 21:08	4°♊43'26	morning rise	1545 Sep 19 j 10:59	20°♍50'05	
	1540 Jul 30 j 19:51	0°♌		1545 Oct 03 j 17:00	0°♊	
	1540 Sep 14 j 04:46	0°♌		1545 Nov 18 j 20:24	0°♌	
	1540 Oct 25 j 03:51	0°♍		1546 Jan 03 j 04:54	0°♌	
	1540 Dec 03 j 00:43	0°♎	desc. node	1546 Feb 03 j 18:19	21°♌07'15	
	1541 Jan 10 j 05:50	0°♏		1546 Feb 16 j 23:31	0°♍	
	1541 Feb 17 j 21:54	0°♐		1546 Apr 02 j 17:53	0°♎	
evening set	1541 Mar 15 j 09:09	19°♐15'25		1546 May 19 j 12:06	0°♏	
	1541 Mar 29 j 21:22	0°♑		1546 Jul 26 j 07:40	0°♐	
asc. node	1541 Apr 13 j 12:59	10°♑40'05	retrograde	1546 Aug 07 j 03:53	0°♐57'49	
	1541 May 10 j 17:53	0°♒		1546 Aug 18 j 23:41	30°♎0	

min. Earth dist.	1546 Sep 02 j 18:53	26° X 30'51	0.39096 AU		1551 Aug 08 j 03:51	0° L	
opposition	1546 Sep 08 j 13:12	24° X 50'08	-5°07'39		1551 Sep 22 j 08:08	0° M	
greatest brilliancy	1546 Sep 07 j 16:30	25° X 05'15	-2.8m	desc. node	1551 Sep 26 j 15:12	2° M 57'22	
direct	1546 Oct 08 j 11:36	19° X 32'51		evening set	1551 Oct 15 j 06:56	16° M 00'29	
	1546 Nov 21 j 03:44	0° Y		max. Earth dist.	1551 Oct 29 j 23:37	26° M 31'35	2.45631 AU
asc. node	1546 Dec 04 j 10:28	6° Y 00'51			1551 Nov 03 j 18:35	0° Z	
	1547 Jan 17 j 13:16	0° Z					
	1547 Mar 08 j 05:18	0° II		conjunction	1551 Dec 08 j 04:31	25° Z 32'50	-0°42'05
	1547 Apr 25 j 17:11	0° E		minimum elong	1551 Dec 08 j 02:29	25° Z 28'58	0°42'03
	1547 Jun 12 j 22:54	0° L			1551 Dec 14 j 01:24	0° Z	
evening set	1547 Jul 27 j 22:01	28° L 14'42			1552 Jan 21 j 21:35	0° \approx	
	1547 Jul 30 j 16:29	0° M		morning rise	1552 Feb 08 j 04:15	13° \approx 32'38	
max. Earth dist.	1547 Aug 27 j 20:33	18° M 00'04	2.65178 AU		1552 Feb 29 j 02:40	0° X	
					1552 Apr 07 j 13:45	0° Y	
conjunction	1547 Sep 11 j 10:56	27° M 27'04	0°51'49		1552 May 17 j 04:22	0° Z	
minimum elong	1547 Sep 11 j 12:04	27° M 28'55	0°51'49		1552 Jun 27 j 20:55	0° II	
	1547 Sep 15 j 08:48	0° L		asc. node	1552 Jul 26 j 06:54	19° II 16'27	
morning rise	1547 Oct 26 j 12:57	27° L 17'12			1552 Aug 11 j 20:53	0° E	
	1547 Oct 30 j 13:27	0° M			1552 Oct 02 j 07:56	0° L	
	1547 Dec 13 j 02:55	0° Z		retrograde	1552 Dec 14 j 13:38	23° L 28'26	
desc. node	1547 Dec 22 j 16:43	6° Z 44'33		opposition	1553 Jan 23 j 18:00	13° L 41'53	4°33'25
	1548 Jan 24 j 04:09	0° Z		min. Earth dist.	1553 Jan 23 j 02:39	13° L 57'13	0.67488 AU
	1548 Mar 05 j 00:51	0° \approx		greatest brilliancy	1553 Jan 23 j 14:41	13° L 45'12	-1.3m
	1548 Apr 14 j 07:21	0° X		direct	1553 Mar 05 j 06:44	3° L 58'40	
	1548 May 25 j 02:25	0° Y			1553 May 25 j 07:25	0° M	
	1548 Jul 07 j 19:22	0° Z			1553 Jul 17 j 07:40	0° L	
	1548 Sep 04 j 00:11	0° II		desc. node	1553 Aug 13 j 14:09	17° L 15'04	
retrograde	1548 Oct 01 j 02:05	4° II 47'35			1553 Sep 01 j 18:43	0° M	
asc. node	1548 Oct 21 j 09:49	1° II 47'28			1553 Oct 14 j 11:02	0° Z	
	1548 Oct 27 j 02:42	30° R Z			1553 Nov 23 j 13:58	0° Z	
min. Earth dist.	1548 Oct 31 j 06:45	28° Z 31'20	0.51267 AU	evening set	1553 Dec 09 j 02:38	11° Z 58'41	
opposition	1548 Nov 08 j 00:13	25° Z 37'28	0°53'36		1554 Jan 01 j 03:29	0° \approx	
greatest brilliancy	1548 Nov 07 j 17:17	25° Z 43'58	-2.1m		1554 Feb 08 j 02:52	0° X	
direct	1548 Dec 12 j 12:32	18° Z 05'43					
	1549 Jan 30 j 13:58	0° II		conjunction	1554 Feb 12 j 21:34	3° X 46'12	-1°01'42
	1549 Mar 31 j 16:52	0° E		minimum elong	1554 Feb 12 j 23:31	3° X 50'04	1°01'41
	1549 May 22 j 16:56	0° L			1554 Mar 18 j 10:44	0° Y	
	1549 Jul 10 j 23:32	0° M		max. Earth dist.	1554 Mar 26 j 21:08	6° Y 29'53	2.38200 AU
	1549 Aug 27 j 02:16	0° L		morning rise	1554 Apr 24 j 01:07	27° Y 49'18	
evening set	1549 Sep 02 j 13:30	4° L 13'54			1554 Apr 26 j 23:20	0° Z	
max. Earth dist.	1549 Sep 22 j 08:29	17° L 21'51	2.57559 AU		1554 Jun 07 j 09:32	0° II	
	1549 Oct 10 j 23:50	0° M		asc. node	1554 Jun 13 j 06:18	4° II 06'59	
					1554 Jul 21 j 07:05	0° E	
conjunction	1549 Oct 19 j 23:00	6° M 10'29	0°11'44		1554 Sep 06 j 09:03	0° L	
minimum elong	1549 Oct 19 j 23:28	6° M 11'18	0°11'43		1554 Oct 29 j 00:21	0° M	
behind sun begin	1549 Oct 19 j 09:12	5° M 46'38		retrograde	1555 Jan 18 j 15:49	26° M 45'44	
behind sun end	1549 Oct 20 j 13:45	6° M 36'00		opposition	1555 Feb 26 j 23:05	17° M 35'17	3°57'21
desc. node	1549 Nov 08 j 15:40	19° M 57'39		greatest brilliancy	1555 Feb 27 j 09:40	17° M 24'53	-1.4m
	1549 Nov 22 j 17:23	0° Z		min. Earth dist.	1555 Mar 02 j 04:54	16° M 18'55	0.66062 AU
morning rise	1549 Dec 08 j 18:04	11° Z 37'14		direct	1555 Apr 09 j 09:18	7° M 33'38	
	1550 Jan 02 j 14:10	0° Z			1555 Jun 20 j 08:03	0° L	
	1550 Feb 11 j 02:18	0° \approx		desc. node	1555 Jul 01 j 12:21	5° L 55'51	
	1550 Mar 21 j 22:05	0° X			1555 Aug 10 j 17:39	0° M	
	1550 Apr 29 j 22:22	0° Y			1555 Sep 23 j 18:57	0° Z	
	1550 Jun 09 j 05:39	0° Z			1555 Nov 03 j 07:37	0° Z	
	1550 Jul 22 j 12:14	0° II			1555 Dec 11 j 23:56	0° \approx	
asc. node	1550 Sep 08 j 09:17	28° II 32'21			1556 Jan 19 j 01:32	0° X	
	1550 Sep 11 j 05:36	0° E		evening set	1556 Feb 18 j 01:31	23° X 26'30	
retrograde	1550 Nov 10 j 12:35	18° E 14'33			1556 Feb 26 j 13:32	0° Y	
min. Earth dist.	1550 Dec 15 j 22:41	10° E 04'59	0.62313 AU		1556 Apr 06 j 08:10	0° Z	
opposition	1550 Dec 20 j 10:35	8° E 17'25	3°45'57				
greatest brilliancy	1550 Dec 19 j 19:08	8° E 32'49	-1.5m	conjunction	1556 Apr 22 j 11:59	11° Z 49'06	-0°05'00
	1551 Jan 17 j 13:04	30° R II		minimum elong	1556 Apr 22 j 12:20	11° Z 49'44	0°05'00
direct	1551 Jan 27 j 16:43	29° II 20'14		behind sun begin	1556 Apr 21 j 11:40	11° Z 05'02	
	1551 Feb 07 j 06:07	0° E		behind sun end	1556 Apr 23 j 13:01	12° Z 34'22	
	1551 Apr 28 j 01:20	0° L		asc. node	1556 Apr 30 j 06:33	17° Z 25'18	
	1551 Jun 20 j 15:14	0° M			1556 May 17 j 23:40	0° II	

max. Earth dist.	1556 Jun 01 j 23:46	10° Π 26'44	2.51421 AU	direct	1561 Sep 06 j 14:33	19° \approx 31'41	
morning rise	1556 Jun 19 j 16:12	22° Π 31'33			1561 Oct 19 j 06:37	0° H	
	1556 Jun 30 j 19:10	0° S			1561 Dec 13 j 08:30	0° Y	
	1556 Aug 15 j 19:59	0° Ω		asc. node	1561 Dec 21 j 02:51	4° Y 47'26	
	1556 Oct 03 j 07:15	0° M			1562 Jan 29 j 20:10	0° X	
	1556 Nov 24 j 18:55	0° $\underline{\text{A}}$			1562 Mar 17 j 11:42	0° Π	
	1557 Feb 03 j 23:31	0° M			1562 May 03 j 13:28	0° S	
retrograde	1557 Feb 26 j 22:28	2° M 53'36			1562 Jun 20 j 01:46	0° Ω	
	1557 Mar 20 j 08:55	30° R $\underline{\text{A}}$		evening set	1562 Jul 13 j 12:04	14° Ω 47'13	
opposition	1557 Apr 05 j 03:33	24° $\underline{\text{A}}$ 45'03	1°50'07		1562 Aug 06 j 12:02	0° M	
greatest brilliancy	1557 Apr 05 j 15:37	24° $\underline{\text{A}}$ 33'45	-1.7m	max. Earth dist.	1562 Aug 18 j 18:30	7° M 49'15	2.66769 AU
min. Earth dist.	1557 Apr 12 j 00:52	22° $\underline{\text{A}}$ 10'27	0.58161 AU				
direct	1557 May 15 j 16:58	15° $\underline{\text{A}}$ 04'25		conjunction	1562 Aug 28 j 03:58	13° M 50'14	1°01'18
desc. node	1557 May 18 j 11:07	15° $\underline{\text{A}}$ 07'22		minimum elong	1562 Aug 28 j 04:52	13° M 51'41	1°01'18
	1557 Jul 08 j 12:48	0° M			1562 Sep 22 j 04:39	0° $\underline{\text{A}}$	
	1557 Aug 29 j 01:09	0° X		morning rise	1562 Oct 11 j 15:24	12° $\underline{\text{A}}$ 43'14	
	1557 Oct 10 j 16:11	0° Z			1562 Nov 06 j 16:08	0° M	
	1557 Nov 19 j 07:01	0° \approx			1562 Dec 20 j 18:42	0° X	
	1557 Dec 27 j 24:00	0° H		desc. node	1563 Jan 08 j 09:06	12° X 55'45	
	1558 Feb 05 j 02:39	0° Y			1563 Feb 01 j 14:21	0° Z	
	1558 Mar 17 j 12:37	0° X			1563 Mar 15 j 10:14	0° \approx	
asc. node	1558 Mar 18 j 04:57	0° X 29'41			1563 Apr 25 j 22:05	0° H	
evening set	1558 Apr 19 j 19:09	23° X 44'26			1563 Jun 07 j 17:30	0° Y	
	1558 Apr 28 j 18:39	0° Π			1563 Jul 27 j 17:31	0° X	
				retrograde	1563 Sep 13 j 00:55	13° X 23'58	
conjunction	1558 Jun 12 j 21:20	0° S 35'21	0°47'30	min. Earth dist.	1563 Oct 11 j 03:05	7° X 58'43	0.46051 AU
minimum elong	1558 Jun 12 j 19:45	0° S 32'44	0°47'29	opposition	1563 Oct 19 j 06:57	5° X 07'03	-1°06'47
	1558 Jun 12 j 00:03	0° S		greatest brilliancy	1563 Oct 18 j 23:20	5° X 13'45	-2.4m
max. Earth dist.	1558 Jul 02 j 22:41	13° S 47'51	2.61836 AU		1563 Nov 05 j 17:37	30° R Y	
	1558 Jul 27 j 22:53	0° Ω		asc. node	1563 Nov 08 j 01:24	29° Y 33'19	
morning rise	1558 Aug 01 j 02:50	2° Ω 40'22		direct	1563 Nov 21 j 00:27	28° Y 24'21	
	1558 Sep 13 j 05:31	0° M			1563 Dec 07 j 01:33	0° X	
	1558 Oct 31 j 15:55	0° $\underline{\text{A}}$			1564 Feb 17 j 15:25	0° Π	
	1558 Dec 20 j 23:15	0° M			1564 Apr 10 j 12:18	0° S	
	1559 Feb 15 j 00:31	0° X			1564 May 30 j 13:21	0° Ω	
desc. node	1559 Apr 05 j 10:10	17° X 37'02			1564 Jul 18 j 01:51	0° M	
retrograde	1559 Apr 22 j 08:22	19° X 15'17		evening set	1564 Aug 18 j 15:22	20° M 04'04	
opposition	1559 May 25 j 14:08	12° X 53'59	-2°40'33		1564 Sep 02 j 23:07	0° $\underline{\text{A}}$	
greatest brilliancy	1559 May 26 j 09:10	12° X 38'30	-2.4m	max. Earth dist.	1564 Sep 11 j 09:04	5° $\underline{\text{A}}$ 30'51	2.61164 AU
min. Earth dist.	1559 Jun 02 j 21:29	10° X 12'05	0.45431 AU				
direct	1559 Jul 01 j 00:47	5° X 08'52		conjunction	1564 Oct 03 j 20:48	20° $\underline{\text{A}}$ 28'10	0°29'46
	1559 Sep 07 j 20:18	0° Z		minimum elong	1564 Oct 03 j 21:46	20° $\underline{\text{A}}$ 29'49	0°29'46
	1559 Oct 23 j 05:25	0° \approx			1564 Oct 17 j 22:30	0° M	
	1559 Dec 03 j 15:34	0° H		morning rise	1564 Nov 20 j 03:11	23° M 02'12	
	1560 Jan 13 j 15:08	0° Y		desc. node	1564 Nov 25 j 07:49	26° M 42'44	
asc. node	1560 Feb 03 j 03:21	14° Y 47'46			1564 Nov 29 j 22:44	0° X	
	1560 Feb 24 j 13:25	0° X			1565 Jan 10 j 04:47	0° Z	
	1560 Apr 08 j 01:03	0° Π			1565 Feb 19 j 03:01	0° \approx	
	1560 May 23 j 04:18	0° S			1565 Mar 30 j 08:27	0° H	
evening set	1560 Jun 04 j 09:38	7° S 58'00			1565 May 08 j 18:43	0° Y	
	1560 Jul 08 j 14:13	0° Ω			1565 Jun 18 j 17:42	0° X	
					1565 Aug 02 j 18:33	0° Π	
conjunction	1560 Jul 22 j 10:43	8° Ω 51'17	1°08'24	asc. node	1565 Sep 25 j 00:09	26° Π 52'59	
minimum elong	1560 Jul 22 j 10:22	8° Ω 50'43	1°08'23		1565 Oct 05 j 02:23	0° S	
max. Earth dist.	1560 Jul 26 j 10:36	11° Ω 24'14	2.67034 AU	retrograde	1565 Oct 26 j 20:47	3° S 02'15	
	1560 Aug 24 j 15:37	0° M			1565 Nov 16 j 13:20	30° R Π	
morning rise	1560 Sep 05 j 15:26	7° M 37'44		min. Earth dist.	1565 Nov 29 j 08:29	25° Π 33'01	0.58596 AU
	1560 Oct 10 j 17:47	0° $\underline{\text{A}}$		opposition	1565 Dec 05 j 06:57	23° Π 12'46	2°58'33
	1560 Nov 26 j 13:04	0° M		greatest brilliancy	1565 Dec 04 j 14:32	23° Π 28'56	-1.7m
	1561 Jan 12 j 04:29	0° X		direct	1566 Jan 11 j 06:42	14° Π 42'56	
desc. node	1561 Feb 20 j 09:31	25° X 01'30			1566 Mar 10 j 05:17	0° S	
	1561 Feb 28 j 07:05	0° Z			1566 May 08 j 05:19	0° Ω	
	1561 Apr 18 j 22:01	0° \approx			1566 Jun 28 j 12:52	0° M	
retrograde	1561 Jul 08 j 13:44	29° \approx 31'42			1566 Aug 15 j 08:46	0° $\underline{\text{A}}$	
opposition	1561 Aug 07 j 21:54	24° \approx 26'56	-6°48'13	evening set	1566 Sep 27 j 15:38	28° $\underline{\text{A}}$ 48'54	
min. Earth dist.	1561 Aug 07 j 00:04	24° \approx 41'28	0.37325 AU		1566 Sep 29 j 09:08	0° M	
greatest brilliancy	1561 Aug 07 j 19:43	24° \approx 28'24	-2.9m	max. Earth dist.	1566 Oct 12 j 23:12	9° M 24'26	2.50695 AU

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°21'09		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 06:00	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 01:12	9°♏30'25	-1.5m
	1567 Jan 29 j 11:00	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 11:20	0°♏	direct	1572 Apr 30 j 14:59	29°♏48'26	
	1567 May 26 j 05:29	0°♏		1572 May 06 j 04:20	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 11 j 01:50	0°♏43'49 -1.4m		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 11:31	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 02:01	12°♏24'27 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°03'53	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°34'22
	1569 Mar 25 j 23:52	0°♏	greatest brilliancy	1574 May 03 j 20:18	22°♏10'39	-2.1m
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 17:39	4°♏24'09 -1.3m		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°♏	
	1570 Aug 19 j 12:51	0°♏	max. Earth dist.	1575 Jul 18 j 07:02	1°♏11'18	2.65648 AU
	1570 Oct 01 j 20:37	0°♏	morning rise	1575 Aug 23 j 18:30	24°♏27'30	
	1570 Nov 11 j 03:33	0°♏		1575 Sep 01 j 12:07	0°♏	
	1570 Dec 19 j 17:31	0°♏		1575 Oct 18 j 23:12	0°♏	
evening set	1571 Jan 20 j 22:37	25°♏26'38		1575 Dec 05 j 17:26	0°♏	
	1571 Jan 26 j 17:06	0°♏		1576 Jan 23 j 09:30	0°♏	
	1571 Mar 06 j 02:15	0°♏	desc. node	1576 Mar 09 j 01:50	26°♏37'37	
				1576 Mar 15 j 06:02	0°♏	
conjunction	1571 Mar 29 j 11:48	17°♏51'44 -0°31'01	retrograde	1576 Jun 06 j 00:27	28°♏50'18	
minimum elong	1571 Mar 29 j 14:13	17°♏56'18 0°30'59	opposition	1576 Jul 06 j 12:08	23°♏43'51	-6°11'23
	1571 Apr 14 j 17:19	0°♏	greatest brilliancy	1576 Jul 07 j 10:04	23°♏28'45	-2.8m
max. Earth dist.	1571 May 17 j 02:37	23°♏32'33 2.46221 AU	min. Earth dist.	1576 Jul 10 j 21:56	22°♏31'17	0.38706 AU
asc. node	1571 May 17 j 21:42	24°♏06'32	direct	1576 Aug 07 j 01:59	18°♏06'25	
	1571 May 26 j 05:19	0°♏		1576 Sep 21 j 00:58	0°♏	
morning rise	1571 May 31 j 18:03	3°♏53'00		1576 Nov 11 j 22:19	0°♏	

	1576 Dec 26 j 19:32	0°♄		behind sun end	1581 Oct 30 j 13:25	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 23:56	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 01:49	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 14:02	26°♄53'14	
	1577 Sep 29 j 01:07	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 16:17	16°♄55'27	4°05'20
	1577 Dec 28 j 18:42	0°♄		greatest brilliancy	1583 Jan 07 02:38	17°♄09'06	-1.5m
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 01:51	0°♄			1583 Aug 13 04:12	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	
opposition	1578 Sep 24 j 12:36	10°♄48'14	-3°39'33		1583 Nov 09 01:37	0°♄	
greatest brilliancy	1578 Sep 23 j 16:43	11°♄03'54	-2.7m	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 17:58	10°♄25'44					
	1579 Jan 07 j 19:43	0°♄		conjunction	1583 Dec 31 09:15	9°♄14'21	-0°52'27
	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 20:32	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 07:32	21°♌35'13	-1.3m
	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 04:15	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 20:04	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	
greatest brilliancy	1580 Nov 17 j 23:20	6°♌41'17	-2.0m		1586 Jan 06 07:26	0°♄	
	1580 Dec 09 j 09:29	30°♌			1586 Feb 13 06:47	0°♄	
direct	1580 Dec 23 j 23:06	28°♌34'32					
	1581 Jan 08 j 09:26	0°♌		conjunction	1586 Mar 11 11:15	20°♄34'05	-0°53'35
	1581 Mar 24 j 09:44	0°♄		minimum elong	1586 Mar 11 14:19	20°♄40'04	0°53'34
	1581 May 17 j 03:42	0°♌			1586 Mar 23 14:39	0°♄	
	1581 Jul 06 j 01:18	0°♌		max. Earth dist.	1586 May 01 05:52	29°♄19'59	2.40838 AU
	1581 Aug 22 j 09:59	0°♄			1586 May 02 03:24	0°♄	
evening set	1581 Sep 11 j 09:43	13°♄08'41		morning rise	1586 May 18 16:55	12°♄11'12	
max. Earth dist.	1581 Sep 29 j 06:23	25°♄09'07	2.55298 AU		1586 Jun 12 13:12	0°♌	
	1581 Oct 06 j 08:53	0°♌		asc. node	1586 Jun 13 14:24	0°♌44'25	
					1586 Jul 26 07:50	0°♄	
conjunction	1581 Oct 29 j 16:45	16°♌12'38	0°00'08		1586 Sep 10 23:38	0°♌	
minimum elong	1581 Oct 29 j 16:46	16°♌12'41	0°00'09		1586 Nov 01 01:16	0°♌	
behind sun begin	1581 Oct 28 j 20:08	15°♌36'20			1587 Jan 07 02:26	0°♄	

retrograde	1587 Feb 05 21:56	4°♌43'27			1591 Oct 24 13:43	0°♏	
	1587 Mar 05 07:11	30°♏			1591 Dec 06 17:18	0°♏	
opposition	1587 Mar 16 21:44	25°♏43'40	3°37'35		1592 Jan 17 14:24	0°♏	
greatest brilliancy	1587 Mar 17 10:18	25°♏31'24	-1.4m	asc. node	1592 Feb 03 11:08	11°♏59'50	
min. Earth dist.	1587 Mar 20 23:30	24°♏08'25	0.64894 AU		1592 Feb 29 02:28	0°♏	
direct	1587 Apr 27 08:20	15°♏42'06			1592 Apr 12 23:43	0°♏	
	1587 Jun 20 20:49	0°♏			1592 May 28 09:17	0°♏	
desc. node	1587 Jul 01 19:14	5°♏10'46		evening set	1592 Jun 23 12:42	16°♏54'38	
	1587 Aug 14 13:43	0°♏			1592 Jul 13 22:51	0°♏	
	1587 Sep 28 09:17	0°♏					
	1587 Nov 08 04:20	0°♏		conjunction	1592 Aug 09 19:00	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 16:08	0°♏			1592 Aug 30 01:01	0°♏	
evening set	1588 Mar 14 07:03	8°♏52'32		morning rise	1592 Sep 23 13:43	15°♏38'26	
	1588 Apr 11 12:21	0°♏			1592 Oct 15 23:52	0°♏	
asc. node	1588 Apr 30 12:33	13°♏51'25			1592 Dec 01 10:13	0°♏	
					1593 Jan 16 07:27	0°♏	
conjunction	1588 May 15 08:16	24°♏26'47	0°09'21	desc. node	1593 Feb 20 16:23	23°♏14'57	
minimum elong	1588 May 15 07:39	24°♏25'42	0°09'20		1593 Mar 02 23:08	0°♏	
behind sun begin	1588 May 14 11:31	23°♏50'03			1593 Apr 18 07:31	0°♏	
behind sun end	1588 May 16 03:47	25°♏01'19			1593 Jun 08 05:45	0°♏	
	1588 May 23 05:20	0°♏		retrograde	1593 Aug 04 19:16	17°♏50'58	
max. Earth dist.	1588 Jun 19 23:38	19°♏10'22	2.54105 AU	min. Earth dist.	1593 Sep 01 04:50	13°♏22'43	0.37925 AU
	1588 Jul 06 01:10	0°♏		greatest brilliancy	1593 Sep 04 10:57	12°♏28'44	-2.9m
morning rise	1588 Jul 10 00:16	2°♏38'31		opposition	1593 Sep 05 02:17	12°♏18'08	-6°04'50
	1588 Aug 20 23:26	0°♏		direct	1593 Oct 04 14:34	7°♏17'29	
	1588 Oct 08 00:28	0°♏			1593 Dec 12 03:14	0°♏	
	1588 Nov 28 01:41	0°♏		asc. node	1593 Dec 21 09:57	5°♏03'58	
	1589 Jan 27 03:01	0°♏			1594 Feb 01 12:32	0°♏	
retrograde	1589 Mar 19 06:14	12°♏15'04			1594 Mar 21 14:55	0°♏	
opposition	1589 Apr 24 20:02	4°♏25'01	1°04'20		1594 May 08 09:40	0°♏	
greatest brilliancy	1589 Apr 25 04:07	4°♏17'35	-1.9m		1594 Jun 25 06:54	0°♏	
min. Earth dist.	1589 May 02 09:29	1°♏38'36	0.55701 AU	evening set	1594 Jul 31 19:14	22°♏58'37	
	1589 May 07 02:44	30°♏			1594 Aug 11 21:18	0°♏	
desc. node	1589 May 18 17:40	26°♏43'57		max. Earth dist.	1594 Sep 03 02:58	14°♏11'23	2.65990 AU
direct	1589 Jun 03 21:31	24°♏58'17					
	1589 Jul 02 21:56	0°♏		conjunction	1594 Sep 15 08:01	22°♏03'08	0°56'12
	1589 Aug 31 14:04	0°♏		minimum elong	1594 Sep 15 09:05	22°♏04'50	0°56'11
	1589 Oct 14 12:32	0°♏			1594 Sep 27 14:08	0°♏	
	1589 Nov 23 15:32	0°♏		morning rise	1594 Oct 30 01:52	21°♏23'27	
	1590 Jan 01 15:34	0°♏			1594 Nov 11 22:28	0°♏	
	1590 Feb 09 23:19	0°♏			1594 Dec 25 18:18	0°♏	
asc. node	1590 Mar 18 11:45	27°♏02'33		desc. node	1595 Jan 08 14:36	9°♏41'38	
	1590 Mar 22 13:37	0°♏			1595 Feb 06 03:53	0°♏	
	1590 May 03 23:21	0°♏			1595 Mar 19 10:21	0°♏	
evening set	1590 May 11 04:08	4°♏57'39			1595 Apr 29 04:07	0°♏	
	1590 Jun 17 07:18	0°♏			1595 Jun 09 14:51	0°♏	
					1595 Jul 24 23:06	0°♏	
conjunction	1590 Jul 02 13:29	10°♏03'34	0°54'53	retrograde	1595 Oct 04 03:54	26°♏24'04	
minimum elong	1590 Jul 02 12:04	10°♏01'16	0°54'53	min. Earth dist.	1595 Nov 02 09:25	20°♏31'09	0.48932 AU
max. Earth dist.	1590 Jul 18 20:55	20°♏41'29	2.63426 AU	asc. node	1595 Nov 08 08:56	18°♏20'19	
	1590 Aug 02 06:54	0°♏		opposition	1595 Nov 10 10:46	17°♏34'36	0°06'39
morning rise	1590 Aug 19 13:39	11°♏03'50		greatest brilliancy	1594 Apr 18 19:21	17°♏42'18	1.2m
	1590 Sep 18 10:41	0°♏		direct	1595 Dec 14 04:11	10°♏23'47	
	1590 Nov 05 10:43	0°♏			1596 Feb 18 01:18	0°♏	
	1590 Dec 24 14:26	0°♏			1596 Apr 14 06:25	0°♏	
	1591 Feb 14 20:01	0°♏			1596 Jun 04 08:17	0°♏	
desc. node	1591 Apr 05 16:50	23°♏36'55		evening set	1596 Jul 23 07:10	0°♏	
	1591 Apr 26 09:48	0°♏			1596 Sep 06 02:48	28°♏33'06	
retrograde	1591 May 17 13:58	2°♏33'14			1596 Sep 08 08:12	0°♏	
	1591 Jun 06 23:00	30°♏		max. Earth dist.	1596 Sep 27 12:52	12°♏37'55	2.59254 AU
opposition	1591 Jun 18 18:28	26°♏40'50	-4°01'26				
greatest brilliancy	1591 Jun 19 19:36	26°♏21'22	-2.6m	conjunction	1596 Oct 22 21:54	29°♏43'34	0°19'39
min. Earth dist.	1591 Jun 26 06:52	24°♏21'56	0.42671 AU	minimum elong	1596 Oct 22 22:38	29°♏44'48	0°19'39
direct	1591 Jul 23 14:08	19°♏39'53			1596 Oct 23 07:31	0°♏	
	1591 Sep 02 18:44	0°♏		desc. node	1596 Nov 25 13:38	23°♏08'15	

	1596 Dec 05 04:59	0°♄	
morning rise	1596 Dec 10 10:58	3°♄46'00	
	1597 Jan 15 06:35	0°♄	
	1597 Feb 23 23:30	0°♄	
	1597 Apr 03 23:33	0°♄	
	1597 May 13 03:20	0°♄	
	1597 Jun 22 15:15	0°♄	
	1597 Aug 05 10:00	0°♄	
asc. node	1597 Sep 25 08:28	28°♄52'20	
	1597 Sep 27 19:36	0°♄	
retrograde	1597 Nov 14 09:07	12°♄21'01	
min. Earth dist.	1597 Dec 18 23:08	4°♄28'58	0.60762 AU
greatest brilliancy	1597 Dec 23 10:24	2°♄42'36	-1.6m
opposition	1597 Dec 24 02:47	2°♄26'20	3°28'42
	1597 Dec 30 10:02	30°♄	
direct	1598 Jan 30 20:16	23°♄40'31	
	1598 Mar 06 17:00	0°♄	
	1598 May 11 17:45	0°♄	
	1598 Jul 03 07:15	0°♄	
	1598 Aug 20 13:32	0°♄	
	1598 Oct 04 17:21	0°♄	
desc. node	1598 Oct 13 13:17	6°♄05'24	
evening set	1598 Oct 17 11:19	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 18:09	16°♄32'52	-0°33'22
minimum elong	1598 Dec 08 16:29	16°♄29'47	0°33'22
	1598 Dec 26 15:40	0°♄	
	1599 Feb 03 14:36	0°♄	
morning rise	1599 Feb 06 00:19	1°♄52'32	
	1599 Mar 13 21:44	0°♄	
greatest brilliancy	1599 Apr 09 09:45	20°♄42'35	1.2m
	1599 Apr 21 09:44	0°♄	
	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 01:14	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 03:21	8°♄37'11	4°31'54
greatest brilliancy	1600 Jan 28 21:29	8°♄43'03	-1.3m
	1600 Feb 25 19:41	30°♄	
direct	1600 Mar 09 09:11	28°♄59'52	
	1600 Mar 22 12:50	0°♄	
	1600 Jun 08 04:41	0°♄	
	1600 Jul 30 03:28	0°♄	
desc. node	1600 Aug 30 12:06	20°♄02'59	
	1600 Sep 14 09:06	0°♄	
	1600 Oct 27 01:19	0°♄	
	1600 Dec 06 05:33	0°♄	
evening set	1600 Dec 08 07:43	1°♄36'00	
	1601 Jan 13 20:19	0°♄	
conjunction	1601 Feb 10 04:21	21°♄34'29	-1°04'34
minimum elong	1601 Feb 10 05:01	21°♄35'47	1°04'34
max. Earth dist.	1601 Feb 16 17:19	26°♄44'35	2.37053 AU
	1601 Feb 20 20:19	0°♄	
	1601 Mar 31 03:36	0°♄	
morning rise	1601 Apr 21 21:41	16°♄41'00	
	1601 May 09 14:43	0°♄	
	1601 Jun 19 23:27	0°♄	
asc. node	1601 Jun 30 05:27	7°♄10'50	
	1601 Aug 02 20:58	0°♄	
	1601 Sep 19 05:07	0°♄	
	1601 Nov 12 04:06	0°♄	