

direct	1100 Jan 24 j 18:30	5°♄49'00		evening set	1105 Nov 05 j 11:32	29°♃30'24	
evening set	1100 May 30 j 10:09	24°♄35'47			1105 Nov 07 j 16:14	0°♄	
				max. Earth dist.	1105 Nov 16 j 01:37	1°♄53'41	6.29134 AU
conjunction	1100 Jun 13 j 04:09	27°♄42'10	0°-4'-20	conjunction	1105 Nov 18 j 03:03	2°♄21'39	0°33'14
minimum elong	1100 Jun 13 j 04:08	27°♄42'09	0°04'21	minimum elong	1105 Nov 18 j 03:04	2°♄21'40	0°33'15
behind sun begin	1100 Jun 12 j 19:56	27°♄37'32		morning rise	1105 Nov 30 j 17:41	5°♄12'40	
behind sun end	1100 Jun 13 j 12:21	27°♄46'47		retrograde	1106 Apr 03 j 21:20	23°♄13'31	
max. Earth dist.	1100 Jun 14 j 22:00	28°♄05'50	6.19885 AU	opposition	1106 Jun 03 j 19:15	18°♄20'38	0°22'44
	1100 Jun 23 j 08:18	0°♄		min. Earth dist.	1106 Jun 05 j 02:55	18°♄10'30	4.22310 AU
morning rise	1100 Jun 26 j 22:06	0°♄48'11		direct	1106 Aug 04 j 06:27	13°♄23'26	
asc. node	1100 Jul 26 j 14:15	7°♄14'41		desc. node	1106 Nov 08 j 11:05	25°♄24'43	
retrograde	1100 Oct 30 j 04:22	19°♄08'55			1106 Nov 29 j 05:05	0°♄	
opposition	1100 Dec 28 j 21:11	14°♄07'11	0°22'07	evening set	1106 Dec 07 j 13:53	1°♄55'25	
min. Earth dist.	1100 Dec 28 j 01:38	14°♄13'45	4.26815 AU	max. Earth dist.	1106 Dec 18 j 20:10	4°♄32'40	6.15284 AU
direct	1101 Feb 27 j 01:09	9°♄05'13					
evening set	1101 Jul 03 j 22:49	27°♄16'09		conjunction	1106 Dec 20 j 06:52	4°♄52'55	0°-4'-13
	1101 Jul 16 j 09:16	0°♄		minimum elong	1106 Dec 20 j 06:51	4°♄52'55	0°04'14
conjunction	1101 Jul 17 j 12:17	0°♄14'52	0°33'00	behind sun begin	1106 Dec 19 j 22:58	4°♄48'20	
minimum elong	1101 Jul 17 j 12:15	0°♄14'51	0°33'00	behind sun end	1106 Dec 20 j 14:44	4°♄57'29	
max. Earth dist.	1101 Jul 18 j 06:31	0°♄24'54	6.33222 AU	morning rise	1107 Jan 02 j 00:08	7°♄50'54	
morning rise	1101 Jul 30 j 23:42	3°♄12'24		retrograde	1107 May 09 j 17:38	26°♄57'31	
	1101 Sep 28 j 17:35	15°♄		opposition	1107 Jul 09 j 09:12	22°♄02'07	0°-35'-44
retrograde	1101 Nov 30 j 04:08	20°♄36'35		min. Earth dist.	1107 Jul 10 j 01:58	21°♄56'41	4.08495 AU
opposition	1102 Jan 29 j 04:53	15°♄38'39	1°09'32	direct	1107 Sep 07 j 10:59	17°♄07'25	
min. Earth dist.	1102 Jan 29 j 01:47	15°♄39'41	4.38460 AU		1107 Dec 14 j 09:43	0°♄	
	1102 Feb 03 j 02:24	15°♄		evening set	1108 Jan 10 j 13:16	6°♄16'04	
direct	1102 Mar 31 j 15:07	10°♄35'39					
	1102 May 26 j 22:28	15°♄		conjunction	1108 Jan 23 j 10:13	9°♄20'41	0°-41'-46
evening set	1102 Aug 05 j 15:02	28°♄20'24		minimum elong	1108 Jan 23 j 10:11	9°♄20'39	0°41'46
	1102 Aug 13 j 07:28	0°♄		max. Earth dist.	1108 Jan 23 j 00:41	9°♄14'58	6.02757 AU
conjunction	1102 Aug 18 j 20:44	1°♄12'15	0°59'15	morning rise	1108 Feb 05 j 09:23	12°♄26'37	
minimum elong	1102 Aug 18 j 20:42	1°♄12'14	0°59'14		1108 Feb 16 j 05:19	15°♄	
max. Earth dist.	1102 Aug 18 j 09:49	1°♄06'20	6.42273 AU	retrograde	1108 May 05 j 06:16	0°♄	
morning rise	1102 Aug 31 j 23:44	4°♄02'41			1108 Jun 15 j 07:46	2°♄35'20	
retrograde	1102 Dec 30 j 10:23	20°♄54'36		opposition	1108 Jul 26 j 15:53	30°♄	
opposition	1103 Feb 28 j 18:29	16°♄00'04	1°35'54	min. Earth dist.	1108 Aug 14 j 14:39	27°♄36'05	-1°-24'-32
min. Earth dist.	1103 Mar 01 j 10:20	15°♄54'56	4.44455 AU	direct	1108 Aug 14 j 08:30	27°♄38'08	3.98508 AU
direct	1103 May 02 j 04:44	10°♄57'10			1108 Oct 12 j 06:54	22°♄42'37	
evening set	1103 Sep 05 j 21:49	28°♄30'32		evening set	1108 Dec 20 j 20:22	0°♄	
	1103 Sep 12 j 19:32	0°♄			1109 Feb 14 j 12:58	12°♄17'46	
max. Earth dist.	1103 Sep 17 j 10:10	0°♄59'58	6.44683 AU	conjunction	1109 Feb 27 j 16:51	15°♄28'22	-1°-5'-2
				minimum elong	1109 Feb 27 j 16:50	15°♄28'21	1°05'02
conjunction	1103 Sep 18 j 20:15	1°♄18'27	1°08'39	max. Earth dist.	1109 Feb 28 j 16:50	15°♄42'52	5.96198 AU
minimum elong	1103 Sep 18 j 20:15	1°♄18'27	1°08'39	morning rise	1109 Mar 12 j 23:38	18°♄40'37	
morning rise	1103 Oct 01 j 15:46	4°♄05'02			1109 May 02 j 13:26	0°♄	
retrograde	1104 Jan 29 j 19:18	20°♄52'44		retrograde	1109 Jul 23 j 10:56	9°♄18'48	
opposition	1104 Mar 30 j 12:04	16°♄00'19	1°36'25	min. Earth dist.	1109 Sep 20 j 06:07	4°♄24'06	3.96237 AU
min. Earth dist.	1104 Mar 31 j 17:16	15°♄50'58	4.43262 AU	opposition	1109 Sep 21 j 06:51	4°♄15'46	-1°-41'-30
direct	1104 Jun 01 j 06:02	10°♄58'35			1109 Oct 29 j 20:56	30°♄	
evening set	1104 Oct 05 j 13:24	28°♄36'51		direct	1109 Nov 18 j 06:04	29°♄21'25	
	1104 Oct 11 j 21:10	0°♄			1109 Dec 07 j 13:48	0°♄	
max. Earth dist.	1104 Oct 16 j 07:43	0°♄58'39	6.39911 AU	evening set	1110 Mar 23 j 20:23	18°♄59'36	
conjunction	1104 Oct 18 j 06:48	1°♄24'36	0°59'26	conjunction	1110 Apr 06 j 08:11	22°♄12'52	-1°-3'-7
minimum elong	1104 Oct 18 j 06:50	1°♄24'37	0°59'26	minimum elong	1110 Apr 06 j 08:13	22°♄12'53	1°03'08
morning rise	1104 Oct 30 j 21:55	4°♄11'25		max. Earth dist.	1110 Apr 08 j 08:57	22°♄42'01	5.98321 AU
	1104 Dec 23 j 17:22	15°♄		morning rise	1110 Apr 19 j 22:56	25°♄27'33	
retrograde	1105 Mar 01 j 09:11	21°♄23'01			1110 May 09 j 11:00	0°♄	
opposition	1105 May 01 j 06:50	16°♄31'12	1°10'38		1110 Aug 07 j 20:30	15°♄	
min. Earth dist.	1105 May 02 j 19:06	16°♄19'40	4.35183 AU	retrograde	1110 Aug 29 j 08:01	15°♄45'13	
	1105 May 13 j 09:52	15°♄			1110 Sep 19 j 15:08	15°♄	
direct	1105 Jul 02 j 17:40	11°♄31'30		min. Earth dist.	1110 Oct 26 j 11:46	10°♄51'58	4.02579 AU
	1105 Aug 21 j 03:28	15°♄		opposition	1110 Oct 27 j 22:26	10°♄40'09	-1°-18'-18

direct	1110 Dec 24 j 23:38	5°♄43'13		conjunction	1116 Oct 22 j 13:26	5°♄48'20	0°56'40
	1111 Mar 15 j 12:13	15°♄		minimum elong	1116 Oct 22 j 13:28	5°♄48'21	0°56'40
evening set	1111 Apr 30 j 03:57	24°♄59'27		morning rise	1116 Nov 04 j 04:22	8°♄35'37	
					1116 Dec 04 j 07:25	15°♄	
conjunction	1111 May 13 j 21:22	28°♄10'45	0°-37'-5	retrograde	1117 Mar 05 j 22:31	25°♄53'13	
minimum elong	1111 May 13 j 21:25	28°♄10'46	0°37'06	opposition	1117 May 05 j 20:49	21°♄01'20	1°05'01
max. Earth dist.	1111 May 16 j 02:31	28°♄41'39	6.08240 AU	min. Earth dist.	1117 May 07 j 08:14	20°♄50'03	4.33505 AU
	1111 May 21 j 17:31	0°♄		direct	1117 Jul 07 j 04:29	16°♄01'58	
morning rise	1111 May 27 j 16:31	1°♄22'37			1117 Oct 22 j 09:55	0°♄	
retrograde	1111 Oct 03 j 00:37	20°♄41'48		evening set	1117 Nov 09 j 21:33	4°♄05'10	
min. Earth dist.	1111 Nov 30 j 08:21	15°♄47'51	4.14899 AU	max. Earth dist.	1117 Nov 20 j 14:40	6°♄30'44	6.27295 AU
opposition	1111 Dec 01 j 14:44	15°♄37'30	0°-27'-21				
direct	1112 Jan 29 j 15:10	10°♄37'32		conjunction	1117 Nov 22 j 13:11	6°♄57'11	0°28'26
evening set	1112 Jun 04 j 06:25	29°♄18'32		minimum elong	1117 Nov 22 j 13:13	6°♄57'12	0°28'27
asc. node	1112 Jun 06 j 07:48	29°♄46'11		morning rise	1117 Dec 05 j 03:53	9°♄49'01	
	1112 Jun 07 j 08:26	0°♄		retrograde	1118 Apr 08 j 19:13	27°♄58'13	
				opposition	1118 Jun 08 j 16:10	23°♄05'06	0°14'45
conjunction	1112 Jun 18 j 00:12	2°♄23'52	0°01'11	min. Earth dist.	1118 Jun 09 j 22:37	22°♄55'21	4.20429 AU
minimum elong	1112 Jun 18 j 00:11	2°♄23'52	0°01'12	direct	1118 Aug 08 j 23:34	18°♄08'19	
behind sun begin	1112 Jun 17 j 15:50	2°♄19'11		desc. node	1118 Sep 18 j 02:03	20°♄34'28	
behind sun end	1112 Jun 18 j 08:33	2°♄28'33			1118 Nov 12 j 02:44	0°♄	
max. Earth dist.	1112 Jun 19 j 16:08	2°♄46'21	6.21953 AU	evening set	1118 Dec 12 j 05:11	6°♄44'56	
morning rise	1112 Jul 01 j 17:21	5°♄28'40					
retrograde	1112 Nov 03 j 11:58	23°♄40'23		conjunction	1118 Dec 24 j 22:22	9°♄43'17	0°-9'-47
opposition	1113 Jan 02 j 06:00	18°♄39'14	0°29'33	minimum elong	1118 Dec 24 j 22:21	9°♄43'17	0°09'48
min. Earth dist.	1113 Jan 01 j 12:14	18°♄45'11	4.28666 AU	behind sun begin	1118 Dec 24 j 15:46	9°♄39'26	
direct	1113 Mar 03 j 13:48	13°♄37'07		behind sun end	1118 Dec 25 j 04:57	9°♄47'08	
	1113 Jun 30 j 13:06	0°♄		max. Earth dist.	1118 Dec 23 j 13:40	9°♄24'08	6.13511 AU
evening set	1113 Jul 08 j 12:53	1°♄43'54		morning rise	1119 Jan 06 j 16:25	12°♄42'19	
					1119 Apr 09 j 01:23	0°♄	
conjunction	1113 Jul 22 j 01:15	4°♄41'35	0°37'26	retrograde	1119 May 14 j 20:17	1°♄57'38	
minimum elong	1113 Jul 22 j 01:12	4°♄41'33	0°37'26		1119 Jun 19 j 20:17	30°♄	
max. Earth dist.	1113 Jul 22 j 13:38	4°♄48'22	6.34712 AU	opposition	1119 Jul 14 j 11:52	27°♄01'40	0°-43'-41
morning rise	1113 Aug 04 j 11:43	7°♄38'05		min. Earth dist.	1119 Jul 15 j 00:52	26°♄57'27	4.06980 AU
	1113 Sep 08 j 18:40	15°♄		direct	1119 Sep 12 j 08:13	22°♄07'12	
retrograde	1113 Dec 04 j 09:39	24°♄56'48			1119 Nov 25 j 00:39	0°♄	
opposition	1114 Feb 02 j 10:22	19°♄59'26	1°14'33	evening set	1120 Jan 15 j 10:44	11°♄19'37	
min. Earth dist.	1114 Feb 02 j 10:56	19°♄59'14	4.39511 AU				
	1114 Mar 29 j 19:12	15°♄		conjunction	1120 Jan 28 j 08:33	14°♄25'04	0°-46'-12
direct	1114 Apr 05 j 01:17	14°♄56'22		minimum elong	1120 Jan 28 j 08:30	14°♄25'02	0°46'13
	1114 Apr 11 j 07:00	15°♄		max. Earth dist.	1120 Jan 28 j 04:46	14°♄22'48	6.01630 AU
	1114 Jul 28 j 12:29	0°♄			1120 Jan 30 j 18:44	15°♄	
evening set	1114 Aug 09 j 23:56	2°♄39'23		morning rise	1120 Feb 10 j 08:26	17°♄31'51	
					1120 Apr 07 j 08:57	0°♄	
conjunction	1114 Aug 23 j 04:46	5°♄30'38	1°01'36	retrograde	1120 Jun 20 j 15:23	7°♄46'12	
minimum elong	1114 Aug 23 j 04:44	5°♄30'37	1°01'35	opposition	1120 Aug 19 j 20:04	2°♄46'23	-1°-29'-11
max. Earth dist.	1114 Aug 22 j 15:01	5°♄23'11	6.42803 AU	min. Earth dist.	1120 Aug 19 j 11:57	2°♄49'05	3.97893 AU
morning rise	1114 Sep 05 j 06:34	8°♄20'25			1120 Sep 11 j 02:29	30°♄	
retrograde	1115 Jan 03 j 13:46	25°♄11'00		direct	1120 Oct 17 j 10:13	27°♄52'53	
opposition	1115 Mar 04 j 23:51	20°♄16'53	1°37'32		1120 Nov 22 j 06:28	0°♄	
min. Earth dist.	1115 Mar 05 j 17:01	20°♄11'20	4.44470 AU	evening set	1121 Feb 19 j 15:24	17°♄29'10	
direct	1115 May 06 j 10:41	15°♄14'09					
	1115 Aug 28 j 00:33	0°♄		conjunction	1121 Mar 04 j 20:15	20°♄40'15	-1°-6'-23
evening set	1115 Sep 10 j 04:29	2°♄48'12		minimum elong	1121 Mar 04 j 20:14	20°♄40'14	1°06'23
max. Earth dist.	1115 Sep 21 j 13:22	5°♄16'04	6.44183 AU	max. Earth dist.	1121 Mar 05 j 23:46	20°♄56'52	5.96129 AU
				morning rise	1121 Mar 18 j 04:15	23°♄53'02	
conjunction	1115 Sep 23 j 02:00	5°♄35'59	1°08'27		1121 Apr 13 j 08:39	0°♄	
minimum elong	1115 Sep 23 j 02:00	5°♄35'59	1°08'27	retrograde	1121 Jul 28 j 14:49	14°♄30'39	
morning rise	1115 Oct 05 j 20:48	8°♄22'29		min. Earth dist.	1121 Sep 25 j 06:48	9°♄36'27	3.96755 AU
retrograde	1116 Feb 03 j 03:52	25°♄12'46		opposition	1121 Sep 26 j 10:10	9°♄27'12	-1°-40'-34
opposition	1116 Apr 03 j 20:38	20°♄20'36	1°34'19	direct	1121 Nov 23 j 07:28	4°♄32'33	
min. Earth dist.	1116 Apr 05 j 03:57	20°♄10'36	4.42289 AU	evening set	1122 Mar 29 j 00:15	24°♄08'35	
direct	1116 Jun 05 j 15:17	15°♄19'09					
	1116 Sep 25 j 23:14	0°♄		conjunction	1122 Apr 11 j 12:57	27°♄21'47	-1°00'-46
evening set	1116 Oct 09 j 20:27	3°♄00'12		minimum elong	1122 Apr 11 j 12:59	27°♄21'48	1°00'46
max. Earth dist.	1116 Oct 20 j 12:46	5°♄21'25	6.38538 AU	max. Earth dist.	1122 Apr 13 j 14:17	27°♄51'11	5.99355 AU
					1122 Apr 22 j 15:07	0°♄	

morning rise	1122 Apr 25 j 04:35	0°♄36'20			1128 Sep 08 j 19:18	0°♄	
	1122 Jul 02 j 14:09	15°♄		evening set	1128 Oct 14 j 04:08	7°♄25'09	
retrograde	1122 Sep 03 j 05:25	20°♄47'33		max. Earth dist.	1128 Oct 24 j 20:42	9°♄46'54	6.37523 AU
min. Earth dist.	1122 Oct 31 j 09:47	15°♄54'03	4.03997 AU				
opposition	1122 Nov 01 j 20:00	15°♄42'22	-1°-12'-26	conjunction	1128 Oct 26 j 20:39	10°♄13'30	0°53'37
	1122 Nov 07 j 00:39	15°♄♂		minimum elong	1128 Oct 26 j 20:41	10°♄13'31	0°53'36
direct	1122 Dec 30 j 00:11	10°♄44'57		morning rise	1128 Nov 08 j 11:17	13°♄01'05	
	1123 Feb 20 j 04:00	15°♄			1128 Nov 17 j 12:23	15°♄	
evening set	1123 May 05 j 05:15	29°♄56'51			1129 Feb 22 j 15:37	0°♄♂	
	1123 May 05 j 10:42	0°♄♄		retrograde	1129 Mar 10 j 13:20	0°♄23'30	
					1129 Mar 26 j 10:14	30°♄♄	
conjunction	1123 May 18 j 23:13	3°♄07'35	0°-32'-11	opposition	1129 May 10 j 11:33	25°♄31'35	0°59'04
minimum elong	1123 May 18 j 23:16	3°♄07'37	0°32'12	min. Earth dist.	1129 May 11 j 23:17	25°♄20'13	4.32266 AU
max. Earth dist.	1123 May 21 j 04:35	3°♄38'29	6.09931 AU	direct	1129 Jul 11 j 17:54	20°♄32'37	
morning rise	1123 Jun 01 j 18:20	6°♄18'42			1129 Oct 04 j 19:29	0°♄♂	
retrograde	1123 Oct 07 j 15:40	25°♄28'49		evening set	1129 Nov 14 j 07:13	8°♄38'21	
min. Earth dist.	1123 Dec 05 j 00:17	20°♄34'46	4.16682 AU	max. Earth dist.	1129 Nov 25 j 00:51	11°♄04'43	6.25942 AU
opposition	1123 Dec 06 j 05:24	20°♄24'53	0°-19'-20				
direct	1124 Feb 03 j 09:38	15°♄24'32		conjunction	1129 Nov 26 j 22:47	11°♄30'54	0°23'33
asc. node	1124 Apr 16 j 17:45	22°♄57'52		minimum elong	1129 Nov 26 j 22:48	11°♄30'55	0°23'33
	1124 May 21 j 19:57	0°♄♄		morning rise	1129 Dec 09 j 13:45	14°♄23'24	
evening set	1124 Jun 09 j 02:45	4°♄01'00			1130 Mar 02 j 10:43	0°♄♄	
				retrograde	1130 Apr 13 j 13:49	2°♄39'18	
conjunction	1124 Jun 22 j 19:56	7°♄05'23	0°06'38		1130 May 26 j 07:52	30°♄♄♂	
minimum elong	1124 Jun 22 j 19:56	7°♄05'23	0°06'37	opposition	1130 Jun 13 j 11:41	27°♄45'51	0°06'50
behind sun begin	1124 Jun 22 j 12:09	7°♄01'02		min. Earth dist.	1130 Jun 14 j 15:23	27°♄36'58	4.19048 AU
behind sun end	1124 Jun 23 j 03:43	7°♄09'43		desc. node	1130 Jul 30 j 06:28	23°♄08'55	
max. Earth dist.	1124 Jun 24 j 07:12	7°♄25'09	6.23672 AU	direct	1130 Aug 13 j 14:27	22°♄49'25	
morning rise	1124 Jul 06 j 12:37	10°♄09'11			1130 Oct 23 j 22:22	0°♄♄	
retrograde	1124 Nov 07 j 20:57	28°♄13'08		evening set	1130 Dec 16 j 18:46	11°♄29'06	
opposition	1125 Jan 06 j 15:31	23°♄12'27	0°36'49	max. Earth dist.	1130 Dec 28 j 07:55	14°♄11'25	6.12230 AU
min. Earth dist.	1125 Jan 06 j 00:28	23°♄17'29	4.30185 AU				
direct	1125 Mar 08 j 03:55	18°♄10'04		conjunction	1130 Dec 29 j 12:24	14°♄28'09	0°-15'-8
	1125 Jun 13 j 14:53	0°♄♄		minimum elong	1130 Dec 29 j 12:22	14°♄28'08	0°15'08
evening set	1125 Jul 13 j 03:23	6°♄13'35		behind sun begin	1130 Dec 29 j 09:20	14°♄26'22	
				behind sun end	1130 Dec 29 j 15:25	14°♄29'55	
conjunction	1125 Jul 26 j 14:58	9°♄10'24	0°41'41	morning rise	1131 Jan 11 j 06:51	17°♄27'56	
minimum elong	1125 Jul 26 j 14:56	9°♄10'23	0°41'41		1131 Mar 11 j 06:51	0°♄♄	
max. Earth dist.	1125 Jul 27 j 00:57	9°♄15'52	6.35925 AU	retrograde	1131 May 19 j 21:51	6°♄50'11	
morning rise	1125 Aug 09 j 00:09	12°♄05'55		opposition	1131 Jul 19 j 11:45	1°♄53'48	0°-51'-4
	1125 Aug 22 j 12:12	15°♄		min. Earth dist.	1131 Jul 19 j 23:12	1°♄50'04	4.05898 AU
retrograde	1125 Dec 08 j 15:12	29°♄19'59			1131 Aug 03 j 10:28	30°♄♄♄	
opposition	1126 Feb 06 j 17:15	24°♄23'09	1°19'14	direct	1131 Sep 17 j 05:06	26°♄59'34	
min. Earth dist.	1126 Feb 06 j 19:33	24°♄22'24	4.40357 AU		1131 Oct 30 j 21:30	0°♄♄	
direct	1126 Apr 09 j 10:35	19°♄20'07			1132 Jan 14 j 23:56	15°♄♄	
	1126 Jul 11 j 09:33	0°♄♄		evening set	1132 Jan 20 j 05:10	16°♄14'26	
evening set	1126 Aug 14 j 10:22	7°♄01'43					
				conjunction	1132 Feb 02 j 03:38	19°♄20'32	0°-50'-7
conjunction	1126 Aug 27 j 13:58	9°♄52'22	1°03'39	minimum elong	1132 Feb 02 j 03:36	19°♄20'31	0°50'08
minimum elong	1126 Aug 27 j 13:56	9°♄52'21	1°03'39	max. Earth dist.	1132 Feb 02 j 02:39	19°♄19'57	6.00836 AU
max. Earth dist.	1126 Aug 26 j 19:38	9°♄42'25	6.43218 AU	morning rise	1132 Feb 15 j 04:34	22°♄28'06	
morning rise	1126 Sep 09 j 14:51	12°♄41'34			1132 Mar 18 j 21:40	0°♄♄	
retrograde	1127 Jan 07 j 21:17	29°♄31'02		retrograde	1132 Jun 25 j 17:00	12°♄46'47	
opposition	1127 Mar 09 j 07:10	24°♄37'19	1°38'41	opposition	1132 Aug 24 j 21:11	7°♄46'31	-1°-32'-57
min. Earth dist.	1127 Mar 10 j 03:06	24°♄30'52	4.44469 AU	min. Earth dist.	1132 Aug 24 j 09:56	7°♄50'16	3.97498 AU
direct	1127 May 10 j 20:31	19°♄34'43		direct	1132 Oct 22 j 07:28	2°♄53'00	
	1127 Aug 10 j 21:46	0°♄♄		evening set	1133 Feb 24 j 14:09	22°♄30'06	
evening set	1127 Sep 14 j 12:22	7°♄09'09					
max. Earth dist.	1127 Sep 25 j 19:35	9°♄36'18	6.43781 AU	conjunction	1133 Mar 09 j 19:59	25°♄41'38	-1°-7'-10
				minimum elong	1133 Mar 09 j 19:58	25°♄41'37	1°07'11
conjunction	1127 Sep 27 j 09:14	9°♄56'48	1°07'54	max. Earth dist.	1133 Mar 11 j 01:54	25°♄59'41	5.96155 AU
minimum elong	1127 Sep 27 j 09:15	9°♄56'49	1°07'54	morning rise	1133 Mar 23 j 05:02	28°♄54'52	
morning rise	1127 Oct 10 j 03:12	12°♄43'10			1133 Mar 27 j 18:12	0°♄♄	
retrograde	1128 Feb 07 j 11:56	29°♄35'35		retrograde	1133 Aug 02 j 14:27	19°♄31'52	
opposition	1128 Apr 08 j 06:42	24°♄43'33	1°31'42	min. Earth dist.	1133 Sep 30 j 04:57	14°♄37'35	3.97200 AU
min. Earth dist.	1128 Apr 09 j 13:44	24°♄33'39	4.41544 AU	opposition	1133 Oct 01 j 08:59	14°♄28'05	-1°-38'-56
direct	1128 Jun 09 j 23:44	19°♄42'26		direct	1133 Nov 28 j 06:26	9°♄33'08	

evening set	1134 Apr 03 j 00:31	29° Υ 07'50		direct	1139 May 15 j 03:53	23° η 53'56	
	1134 Apr 06 j 16:39	0° Υ			1139 Jul 22 j 02:40	0° ϵ	
conjunction	1134 Apr 16 j 14:21	2° Υ 21'09	0°-58'-3	evening set	1139 Sep 18 j 18:58	11° ϵ 28'09	
minimum elong	1134 Apr 16 j 14:23	2° Υ 21'10	0°58'04	max. Earth dist.	1139 Sep 29 j 22:27	13° ϵ 53'32	6.43417 AU
max. Earth dist.	1134 Apr 18 j 17:57	2° Υ 51'48	6.00196 AU	conjunction	1139 Oct 01 j 14:53	14° ϵ 15'35	1°06'58
morning rise	1134 Apr 30 j 06:43	5° Υ 35'40		minimum elong	1139 Oct 01 j 14:54	14° ϵ 15'36	1°06'57
	1134 Jun 11 j 08:16	15° Υ		morning rise	1139 Oct 14 j 08:18	17° ϵ 01'51	
retrograde	1134 Sep 08 j 01:04	25° Υ 41'21			1139 Dec 21 j 20:13	0° μ	
min. Earth dist.	1134 Nov 05 j 04:09	20° Υ 47'50	4.05142 AU	retrograde	1140 Feb 11 j 21:13	3° μ 56'16	
opposition	1134 Nov 06 j 13:58	20° Υ 36'18	-1°-6'-18		1140 Apr 05 j 07:55	30° μ ϵ	
direct	1135 Jan 03 j 19:47	15° Υ 38'33		opposition	1140 Apr 12 j 15:52	29° ϵ 04'18	1°28'34
	1135 Apr 18 j 21:58	0° Π		min. Earth dist.	1140 Apr 14 j 00:53	28° ϵ 53'46	4.40744 AU
evening set	1135 May 10 j 03:57	4° Π 47'35		direct	1140 Jun 14 j 09:22	24° ϵ 03'20	
					1140 Aug 19 j 21:59	0° μ	
conjunction	1135 May 23 j 22:08	7° Π 57'51	0°-27'-14	evening set	1140 Oct 18 j 10:27	11° μ 47'48	
minimum elong	1135 May 23 j 22:10	7° Π 57'53	0°27'14	max. Earth dist.	1140 Oct 29 j 02:19	14° μ 09'34	6.36326 AU
max. Earth dist.	1135 May 26 j 00:40	8° Π 27'00	6.11279 AU	conjunction	1140 Oct 31 j 02:44	14° μ 36'30	0°50'14
morning rise	1135 Jun 06 j 17:33	11° Π 08'26		minimum elong	1140 Oct 31 j 02:46	14° μ 36'31	0°50'15
	1135 Oct 01 j 13:55	0° Θ			1140 Nov 01 j 20:59	15° μ	
retrograde	1135 Oct 12 j 04:00	0° Θ 11'10		morning rise	1140 Nov 12 j 17:08	17° μ 24'29	
	1135 Oct 22 j 17:08	30° μ Π			1141 Jan 15 j 18:09	0° ν	
opposition	1135 Dec 10 j 18:03	25° Π 07'35	0°-11'-28	retrograde	1141 Mar 15 j 01:49	4° ν 52'25	
min. Earth dist.	1135 Dec 09 j 14:08	25° Π 17'04	4.18105 AU	opposition	1141 May 15 j 01:14	0° ν 00'18	0°52'45
direct	1136 Feb 08 j 01:40	20° Π 06'54			1141 May 15 j 02:11	30° μ μ	
asc. node	1136 Feb 27 j 06:45	20° Π 42'49		min. Earth dist.	1141 May 16 j 11:47	29° μ 49'18	4.30730 AU
	1136 May 03 j 23:22	0° Θ		direct	1141 Jul 16 j 03:42	25° μ 01'37	
evening set	1136 Jun 13 j 21:19	8° Θ 40'14			1141 Sep 13 j 15:11	0° ν	
conjunction	1136 Jun 27 j 14:12	11° Θ 43'51	0°11'52	evening set	1141 Nov 18 j 16:25	13° ν 11'06	
minimum elong	1136 Jun 27 j 14:11	11° Θ 43'50	0°11'52	max. Earth dist.	1141 Nov 29 j 11:54	15° ν 39'06	6.24184 AU
behind sun begin	1136 Jun 27 j 08:32	11° Θ 40'41		conjunction	1141 Dec 01 j 08:03	16° ν 04'23	0°18'29
behind sun end	1136 Jun 27 j 19:50	11° Θ 46'59		minimum elong	1141 Dec 01 j 08:04	16° ν 04'24	0°18'29
max. Earth dist.	1136 Jun 28 j 23:21	12° Θ 02'23	6.25087 AU	morning rise	1141 Dec 13 j 23:17	18° ν 57'43	
morning rise	1136 Jul 11 j 06:01	14° Θ 46'42			1142 Feb 04 j 12:34	0° ζ	
	1136 Oct 01 j 00:44	0° Ω		retrograde	1142 Apr 18 j 11:42	7° ζ 22'03	
retrograde	1136 Nov 12 j 05:47	2° Ω 44'04		desc. node	1142 Jun 09 j 18:42	3° ζ 33'32	
	1136 Dec 24 j 08:33	30° μ Θ		opposition	1142 Jun 18 j 07:58	2° ζ 28'15	0°-1'-15
min. Earth dist.	1137 Jan 10 j 11:03	27° Θ 48'16	4.31480 AU	min. Earth dist.	1142 Jun 19 j 11:04	2° ζ 19'33	4.17166 AU
opposition	1137 Jan 11 j 00:06	27° Θ 43'55	0°43'43		1142 Jul 08 j 11:40	30° μ ν	
direct	1137 Mar 12 j 16:14	22° Θ 41'25		direct	1142 Aug 18 j 07:22	27° ν 32'05	
	1137 May 25 j 10:09	0° Ω			1142 Sep 27 j 10:26	0° ζ	
evening set	1137 Jul 17 j 17:17	10° Ω 42'17		evening set	1142 Dec 21 j 09:32	16° ζ 16'42	
conjunction	1137 Jul 31 j 03:47	13° Ω 38'15	0°45'37	max. Earth dist.	1143 Jan 02 j 01:22	19° ζ 01'16	6.10389 AU
minimum elong	1137 Jul 31 j 03:44	13° Ω 38'13	0°45'37	conjunction	1143 Jan 03 j 03:39	19° ζ 16'45	0°-20'-30
max. Earth dist.	1137 Jul 31 j 09:20	13° Ω 41'17	6.36995 AU	minimum elong	1143 Jan 03 j 03:38	19° ζ 16'45	0°20'31
	1137 Aug 06 j 09:23	15° Ω		morning rise	1143 Jan 15 j 22:55	22° ζ 17'39	
morning rise	1137 Aug 13 j 12:01	16° Ω 32'54			1143 Feb 19 j 03:02	0° \approx	
	1137 Oct 23 j 21:36	0° η		retrograde	1143 May 24 j 23:58	11° \approx 48'59	
retrograde	1137 Dec 12 j 21:10	3° η 42'40		opposition	1143 Jul 24 j 13:46	6° \approx 52'05	0°-58'-20
	1138 Feb 01 j 12:05	30° μ Ω		min. Earth dist.	1143 Jul 24 j 21:41	6° \approx 49'30	4.04281 AU
opposition	1138 Feb 10 j 23:44	28° Ω 46'14	1°23'23	direct	1143 Sep 22 j 01:30	1° \approx 58'02	
min. Earth dist.	1138 Feb 11 j 04:23	28° Ω 44'42	4.41151 AU		1143 Dec 29 j 01:35	15° \approx	
direct	1138 Apr 13 j 20:11	23° Ω 43'08		evening set	1144 Jan 25 j 03:11	21° \approx 17'29	
	1138 Jun 21 j 13:33	0° η		conjunction	1144 Feb 07 j 02:32	24° \approx 24'33	0°-53'-50
evening set	1138 Aug 18 j 19:38	11° η 23'07		minimum elong	1144 Feb 07 j 02:30	24° \approx 24'31	0°53'50
conjunction	1138 Aug 31 j 22:22	14° η 13'11	1°05'19	max. Earth dist.	1144 Feb 07 j 05:38	24° \approx 26'24	5.99582 AU
minimum elong	1138 Aug 31 j 22:21	14° η 13'10	1°05'20	morning rise	1144 Feb 20 j 04:29	27° \approx 33'07	
max. Earth dist.	1138 Aug 31 j 02:46	14° η 02'34	6.43665 AU		1144 Mar 01 j 12:10	0° \varkappa	
morning rise	1138 Sep 13 j 22:01	17° η 01'46		retrograde	1144 Jul 01 j 00:08	17° \varkappa 57'47	
	1138 Nov 21 j 23:38	0° ϵ		opposition	1144 Aug 30 j 02:13	12° \varkappa 56'56	-1°-36'-12
retrograde	1139 Jan 12 j 01:57	3° ϵ 49'52		min. Earth dist.	1144 Aug 29 j 12:46	13° \varkappa 01'25	3.96752 AU
	1139 Mar 05 j 06:39	30° μ η		direct	1144 Oct 27 j 10:13	8° \varkappa 03'18	
opposition	1139 Mar 13 j 13:45	28° η 56'24	1°39'16	evening set	1145 Mar 01 j 17:51	27° \varkappa 42'28	
min. Earth dist.	1139 Mar 14 j 10:43	28° η 49'39	4.44532 AU				

	1145 Mar 11 j 06:23	0°♃		max. Earth dist.	1150 Sep 04 j 03:08	18°♎13'07	6.44430 AU
conjunction	1145 Mar 15 j 00:59	0°♃54'39	-1°-7'-29	conjunction	1150 Sep 05 j 03:32	18°♎26'20	1°06'35
minimum elong	1145 Mar 15 j 01:00	0°♃54'39	1°07'30	minimum elong	1150 Sep 05 j 03:31	18°♎26'19	1°06'35
max. Earth dist.	1145 Mar 16 j 11:53	1°♃15'42	5.95991 AU	morning rise	1150 Sep 18 j 02:14	21°♎14'13	
morning rise	1145 Mar 28 j 11:10	4°♃08'29			1150 Oct 31 j 08:32	0°♏	
retrograde	1145 Aug 07 j 19:54	24°♃44'50		retrograde	1151 Jan 16 j 04:45	8°♏00'27	
min. Earth dist.	1145 Oct 05 j 06:58	19°♃50'47	3.97666 AU	opposition	1151 Mar 17 j 17:28	3°♏07'16	1°39'16
opposition	1145 Oct 06 j 12:30	19°♃40'46	-1°-36'-28	min. Earth dist.	1151 Mar 18 j 17:09	2°♏59'38	4.44723 AU
direct	1145 Dec 03 j 09:08	14°♃45'34			1151 Apr 12 j 23:42	30°♎	
	1146 Mar 20 j 16:49	0°♄		direct	1151 May 19 j 09:19	28°♎04'53	
evening set	1146 Apr 08 j 06:07	4°♄18'36			1151 Jun 25 j 00:33	0°♏	
				evening set	1151 Sep 22 j 22:00	15°♏38'49	
conjunction	1146 Apr 21 j 20:43	7°♄31'50	0°-54'-46	max. Earth dist.	1151 Oct 03 j 23:36	18°♏03'20	6.43004 AU
minimum elong	1146 Apr 21 j 20:46	7°♄31'52	0°54'48				
max. Earth dist.	1146 Apr 24 j 00:44	8°♄02'38	6.01243 AU	conjunction	1151 Oct 05 j 17:23	18°♏26'09	1°05'41
morning rise	1146 May 05 j 14:03	10°♄46'14		minimum elong	1151 Oct 05 j 17:24	18°♏26'10	1°05'40
	1146 May 23 j 21:25	15°♄		morning rise	1151 Oct 18 j 10:01	21°♏12'19	
	1146 Aug 22 j 13:20	0°♅			1151 Nov 30 j 09:49	0°♐	
retrograde	1146 Sep 12 j 22:24	0°♅44'59		retrograde	1152 Feb 16 j 01:56	8°♐09'22	
	1146 Oct 04 j 04:18	30°♎♄		opposition	1152 Apr 16 j 22:05	3°♐17'30	1°25'03
min. Earth dist.	1146 Nov 10 j 01:18	25°♄51'45	4.06671 AU	min. Earth dist.	1152 Apr 18 j 07:53	3°♐06'44	4.39739 AU
opposition	1146 Nov 11 j 11:51	25°♄39'58	0°-59'-26		1152 May 15 j 04:11	30°♎♄	
direct	1147 Jan 08 j 20:10	20°♄41'48		direct	1152 Jun 18 j 13:48	28°♏16'49	
	1147 Mar 31 j 02:27	0°♅			1152 Jul 23 j 00:35	0°♐	
evening set	1147 May 15 j 06:29	9°♅46'15		evening set	1152 Oct 17 j 17:47	15°♐	
				max. Earth dist.	1152 Oct 22 j 14:01	16°♐04'02	
conjunction	1147 May 29 j 00:56	12°♅55'47	0°-21'-55		1152 Nov 02 j 03:43	18°♐25'10	6.34789 AU
minimum elong	1147 May 29 j 00:58	12°♅55'47	0°21'56				
max. Earth dist.	1147 May 31 j 03:08	13°♅24'37	6.13200 AU	conjunction	1152 Nov 04 j 05:56	18°♐53'13	0°46'41
morning rise	1147 Jun 11 j 20:05	16°♅05'22		minimum elong	1152 Nov 04 j 05:58	18°♐53'14	0°46'41
	1147 Aug 19 j 21:59	0°♆		morning rise	1152 Nov 16 j 20:23	21°♐41'50	
retrograde	1147 Oct 16 j 19:15	4°♆58'12			1152 Dec 26 j 04:35	0°♑	
min. Earth dist.	1147 Dec 14 j 06:50	0°♆03'51	4.20219 AU	retrograde	1153 Mar 19 j 15:34	9°♑16'57	
	1147 Dec 14 j 18:13	30°♎♅		opposition	1153 May 19 j 13:29	4°♑24'43	0°46'16
opposition	1147 Dec 15 j 08:56	29°♅55'01	0°-3'-21	min. Earth dist.	1153 May 21 j 01:01	4°♑13'23	4.28723 AU
asc. node	1148 Jan 07 j 11:05	27°♅00'06			1153 Jul 01 j 08:57	30°♎♐	
direct	1148 Feb 12 j 21:34	24°♅54'03		direct	1153 Jul 20 j 13:27	29°♐26'18	
	1148 Apr 12 j 02:17	0°♆			1153 Aug 08 j 17:00	0°♑	
evening set	1148 Jun 18 j 17:20	13°♆21'34		evening set	1153 Nov 23 j 00:23	17°♑41'28	
				max. Earth dist.	1153 Dec 03 j 21:03	20°♑10'53	6.21877 AU
conjunction	1148 Jul 02 j 09:28	16°♆23'57	0°17'06				
minimum elong	1148 Jul 02 j 09:27	16°♆23'56	0°17'06	conjunction	1153 Dec 05 j 16:22	20°♑35'48	0°13'24
max. Earth dist.	1148 Jul 03 j 15:35	16°♆40'43	6.27228 AU	minimum elong	1153 Dec 05 j 16:23	20°♑35'49	0°13'24
morning rise	1148 Jul 16 j 00:26	19°♆25'30		behind sun begin	1153 Dec 05 j 11:42	20°♑33'08	
	1148 Sep 05 j 18:16	0°♇		behind sun end	1153 Dec 05 j 21:04	20°♑38'30	
retrograde	1148 Nov 16 j 12:06	7°♇13'46		morning rise	1153 Dec 17 j 08:01	23°♑30'18	
opposition	1149 Jan 15 j 08:39	2°♇14'06	0°50'19		1154 Jan 16 j 15:01	0°♈	
min. Earth dist.	1149 Jan 14 j 21:15	2°♇17'54	4.33483 AU	desc. node	1154 Apr 21 j 04:38	12°♈04'49	
	1149 Feb 01 j 19:09	30°♎♆		retrograde	1154 Apr 23 j 08:01	12°♈05'15	
direct	1149 Mar 17 j 04:38	27°♆11'26		opposition	1154 Jun 23 j 03:59	7°♈11'08	0°-9'-17
	1149 Apr 30 j 01:57	0°♇		min. Earth dist.	1154 Jun 24 j 04:38	7°♈03'13	4.14731 AU
	1149 Jul 21 j 16:20	15°♇		direct	1154 Aug 22 j 21:14	2°♈15'21	
evening set	1149 Jul 22 j 05:37	15°♇07'11		evening set	1154 Dec 26 j 01:30	21°♈07'16	
conjunction	1149 Aug 04 j 15:02	18°♇01'59	0°49'15	conjunction	1155 Jan 07 j 20:13	24°♈08'36	0°-25'-43
minimum elong	1149 Aug 04 j 15:00	18°♇01'58	0°49'14	minimum elong	1155 Jan 07 j 20:12	24°♈08'35	0°25'44
max. Earth dist.	1149 Aug 04 j 17:35	18°♇03'22	6.38708 AU	max. Earth dist.	1155 Jan 06 j 21:09	23°♈54'56	6.08043 AU
morning rise	1149 Aug 17 j 21:54	20°♇55'24		morning rise	1155 Jan 20 j 16:23	27°♈10'55	
	1149 Oct 01 j 13:32	0°♈			1155 Feb 01 j 18:10	0°♉	
retrograde	1149 Dec 17 j 00:33	7°♈59'11			1155 Apr 25 j 06:20	15°♉	
opposition	1150 Feb 15 j 04:25	3°♈03'15	1°26'57	retrograde	1155 May 30 j 06:56	16°♉53'27	
min. Earth dist.	1150 Feb 15 j 11:42	3°♈00'52	4.42453 AU		1155 Jul 04 j 09:42	15°♊	
	1150 Mar 12 j 09:22	30°♎♇		opposition	1155 Jul 29 j 17:45	11°♉56'02	-1°-5'-13
direct	1150 Apr 18 j 04:49	28°♇00'12		min. Earth dist.	1155 Jul 29 j 23:02	11°♉54'18	4.02239 AU
	1150 May 25 j 09:32	0°♈		direct	1155 Sep 27 j 01:11	7°♉02'09	
evening set	1150 Aug 23 j 02:00	15°♈37'02			1155 Dec 09 j 12:59	15°♉	

evening set	1156 Jan 30 j 03:52	26° \approx 27'51		conjunction	1161 Aug 09 j 03:00	22° Ω 27'54	0°52'41
				minimum elong	1161 Aug 09 j 02:58	22° Ω 27'53	0°52'41
conjunction	1156 Feb 12 j 04:25	29° \approx 36'06	0°-57'-8	max. Earth dist.	1161 Aug 09 j 01:23	22° Ω 27'01	6.40058 AU
minimum elong	1156 Feb 12 j 04:23	29° \approx 36'05	0°57'08	morning rise	1161 Aug 22 j 08:39	25° Ω 20'17	
max. Earth dist.	1156 Feb 12 j 13:13	29° \approx 41'25	5.98050 AU		1161 Sep 13 j 10:11	0° \mp	
	1156 Feb 13 j 20:00	0° H		retrograde	1161 Dec 21 j 04:22	12° \mp 19'29	
morning rise	1156 Feb 25 j 07:31	2° H 45'54		opposition	1162 Feb 19 j 10:35	7° \mp 23'56	1°30'12
retrograde	1156 Jul 06 j 10:29	23° H 17'10		min. Earth dist.	1162 Feb 19 j 20:04	7° \mp 20'51	4.43312 AU
opposition	1156 Sep 04 j 10:09	18° H 15'48	-1°-38'-40	direct	1162 Apr 22 j 13:30	2° \mp 20'53	
min. Earth dist.	1156 Sep 03 j 17:30	18° H 21'22	3.95932 AU	evening set	1162 Aug 27 j 10:15	19° \mp 56'02	
direct	1156 Nov 01 j 14:02	13° H 22'07		max. Earth dist.	1162 Sep 08 j 07:56	22° \mp 30'15	6.44733 AU
	1157 Feb 22 j 04:10	0° Y					
evening set	1157 Mar 07 j 01:08	3° Y 03'25		conjunction	1162 Sep 09 j 10:49	22° \mp 44'49	1°07'34
				minimum elong	1162 Sep 09 j 10:49	22° \mp 44'49	1°07'33
conjunction	1157 Mar 20 j 09:19	6° Y 16'08	-1°-7'-13	morning rise	1162 Sep 22 j 08:25	25° \mp 32'11	
minimum elong	1157 Mar 20 j 09:19	6° Y 16'09	1°07'13		1162 Oct 13 j 12:30	0° $\underline{\text{A}}$	
max. Earth dist.	1157 Mar 21 j 23:16	6° Y 39'01	5.95933 AU	retrograde	1163 Jan 20 j 10:34	12° $\underline{\text{A}}$ 18'06	
morning rise	1157 Apr 02 j 20:50	9° Y 30'32		opposition	1163 Mar 22 j 00:30	7° $\underline{\text{A}}$ 25'12	1°38'51
	1157 Aug 05 j 23:03	0° Z		min. Earth dist.	1163 Mar 23 j 02:21	7° $\underline{\text{A}}$ 16'54	4.44462 AU
retrograde	1157 Aug 13 j 01:18	0° Z 05'02		direct	1163 May 23 j 17:49	2° $\underline{\text{A}}$ 23'02	
	1157 Aug 20 j 03:34	30° R Y		evening set	1163 Sep 27 j 04:28	19° $\underline{\text{A}}$ 57'53	
min. Earth dist.	1157 Oct 10 j 09:51	25° Y 11'29	3.98378 AU	max. Earth dist.	1163 Oct 08 j 01:45	22° $\underline{\text{A}}$ 20'27	6.42182 AU
opposition	1157 Oct 11 j 17:59	25° Y 00'33	-1°-33'-6				
direct	1157 Dec 08 j 14:53	20° Y 04'55		conjunction	1163 Oct 09 j 23:04	22° $\underline{\text{A}}$ 45'15	1°04'03
	1158 Mar 01 j 15:40	0° Z		minimum elong	1163 Oct 09 j 23:05	22° $\underline{\text{A}}$ 45'16	1°04'03
evening set	1158 Apr 13 j 14:04	9° Z 35'06		morning rise	1163 Oct 22 j 15:20	25° $\underline{\text{A}}$ 31'35	
					1163 Nov 12 j 14:24	0° M	
conjunction	1158 Apr 27 j 05:38	12° Z 48'05	0°-50'-59	retrograde	1164 Feb 20 j 13:09	12° M 32'37	
minimum elong	1158 Apr 27 j 05:41	12° Z 48'06	0°51'00	opposition	1164 Apr 21 j 09:03	7° M 40'47	1°20'58
max. Earth dist.	1158 Apr 29 j 12:02	13° Z 20'11	6.02643 AU	min. Earth dist.	1164 Apr 22 j 20:10	7° M 29'35	4.38406 AU
	1158 May 06 j 13:32	15° Z		direct	1164 Jun 22 j 23:49	2° M 40'19	
morning rise	1158 May 10 j 23:25	16° Z 02'02			1164 Oct 01 j 08:06	15° M	
	1158 Jul 16 j 18:26	0° II		evening set	1164 Oct 26 j 22:01	20° M 31'08	
retrograde	1158 Sep 17 j 22:04	5° II 51'56		max. Earth dist.	1164 Nov 06 j 12:34	22° M 53'16	6.33057 AU
min. Earth dist.	1158 Nov 15 j 01:02	0° II 58'21	4.08549 AU				
opposition	1158 Nov 16 j 10:34	0° II 46'55	0°-52'-2	conjunction	1164 Nov 08 j 13:56	23° M 20'57	0°42'43
	1158 Nov 22 j 04:41	30° R Z		minimum elong	1164 Nov 08 j 13:58	23° M 20'58	0°42'43
direct	1159 Jan 13 j 23:03	25° Z 48'15		morning rise	1164 Nov 21 j 04:13	26° M 10'15	
	1159 Mar 07 j 03:24	0° II			1164 Dec 08 j 14:42	0° Z	
evening set	1159 May 20 j 09:40	14° II 46'48		retrograde	1165 Mar 24 j 08:15	13° Z 53'05	
				opposition	1165 May 24 j 06:47	9° Z 00'44	0°39'10
conjunction	1159 Jun 03 j 04:05	17° II 55'20	0°-16'-23	min. Earth dist.	1165 May 25 j 17:10	8° Z 49'46	4.26704 AU
minimum elong	1159 Jun 03 j 04:06	17° II 55'21	0°16'25	direct	1165 Jul 25 j 02:18	4° Z 02'44	
max. Earth dist.	1159 Jun 05 j 04:56	18° II 23'14	6.15358 AU	evening set	1165 Nov 27 j 13:20	22° Z 23'22	
morning rise	1159 Jun 16 j 22:59	21° II 03'49		max. Earth dist.	1165 Dec 08 j 11:37	24° Z 54'30	6.19741 AU
	1159 Jul 28 j 13:26	0° S					
retrograde	1159 Oct 21 j 07:49	9° S 45'57		conjunction	1165 Dec 10 j 05:26	25° Z 18'41	0°07'58
asc. node	1159 Nov 16 j 15:02	8° S 38'09		minimum elong	1165 Dec 10 j 05:26	25° Z 18'41	0°07'59
opposition	1159 Dec 19 j 23:45	4° S 43'08	0°04'50	behind sun begin	1165 Dec 09 j 22:17	25° Z 14'34	
min. Earth dist.	1159 Dec 18 j 22:32	4° S 51'39	4.22430 AU	behind sun end	1165 Dec 10 j 12:36	25° Z 22'48	
	1160 Feb 04 j 02:36	30° R II		morning rise	1165 Dec 22 j 21:40	28° Z 14'18	
direct	1160 Feb 17 j 16:00	29° II 41'48			1165 Dec 30 j 14:34	0° Z	
	1160 Mar 02 j 09:39	0° S		desc. node	1166 Feb 28 j 14:15	11° Z 59'07	
evening set	1160 Jun 23 j 13:17	18° S 03'23		retrograde	1166 Apr 28 j 10:49	16° Z 59'23	
				opposition	1166 Jun 28 j 05:09	12° Z 04'55	0°-17'-39
conjunction	1160 Jul 07 j 04:33	21° S 04'32	0°22'17	min. Earth dist.	1166 Jun 29 j 03:42	11° Z 57'38	4.12645 AU
minimum elong	1160 Jul 07 j 04:31	21° S 04'31	0°22'18	direct	1166 Aug 27 j 18:14	7° Z 09'28	
max. Earth dist.	1160 Jul 08 j 06:20	21° S 18'50	6.29309 AU	evening set	1166 Dec 30 j 21:19	26° Z 07'10	
morning rise	1160 Jul 20 j 18:28	24° S 04'44					
	1160 Aug 17 j 12:03	0° Ω		conjunction	1167 Jan 12 j 16:50	29° Z 09'36	0°-30'-58
retrograde	1160 Nov 20 j 20:43	11° Ω 44'33		minimum elong	1167 Jan 12 j 16:48	29° Z 09'35	0°30'59
opposition	1161 Jan 19 j 17:42	6° Ω 45'24	0°56'44	max. Earth dist.	1167 Jan 11 j 22:53	28° Z 58'56	6.06225 AU
min. Earth dist.	1161 Jan 19 j 09:44	6° Ω 48'03	4.35271 AU		1167 Jan 16 j 05:32	0° \approx	
direct	1161 Mar 21 j 19:34	1° Ω 42'35		morning rise	1167 Jan 25 j 13:45	2° \approx 13'04	
	1161 Jul 05 j 04:21	15° Ω			1167 Mar 25 j 23:06	15° \approx	
evening set	1161 Jul 26 j 18:42	19° Ω 34'07		retrograde	1167 Jun 04 j 15:40	22° \approx 04'29	
				opposition	1167 Aug 04 j 00:36	17° \approx 06'36	-1°-11'-50

min. Earth dist.	1167 Aug 04 j 02:26	17°≈06'00	4.00912 AU	direct	1173 Mar 26 j 04:48	6°Ω07'03	
	1167 Aug 20 j 15:07	15°R≈			1173 Jun 17 j 07:24	15°Ω	
direct	1167 Oct 02 j 02:47	12°≈12'58		evening set	1173 Jul 31 j 05:04	23°Ω55'51	
	1167 Nov 12 j 17:46	15°≈					
	1168 Jan 28 j 03:52	0°✕		conjunction	1173 Aug 13 j 12:14	26°Ω48'50	0°55'44
evening set	1168 Feb 04 j 06:52	1°✕42'06		minimum elong	1173 Aug 13 j 12:11	26°Ω48'49	0°55'45
				max. Earth dist.	1173 Aug 13 j 05:52	26°Ω45'23	6.40953 AU
conjunction	1168 Feb 17 j 08:12	4°✕51'05	-1°00'-5	morning rise	1173 Aug 26 j 16:48	29°Ω40'25	
minimum elong	1168 Feb 17 j 08:10	4°✕51'03	1°00'06		1173 Aug 28 j 05:09	0°൬	
max. Earth dist.	1168 Feb 17 j 20:49	4°✕58'42	5.97329 AU	retrograde	1173 Dec 25 j 09:28	16°൬36'51	
morning rise	1168 Mar 01 j 12:32	8°✕01'43		opposition	1174 Feb 23 j 15:49	11°൬41'48	1°32'56
retrograde	1168 Jul 11 j 17:33	28°✕35'55		min. Earth dist.	1174 Feb 24 j 04:40	11°൬37'38	4.43686 AU
opposition	1168 Sep 09 j 17:30	23°✕34'00	-1°-40'-22	direct	1174 Apr 26 j 22:25	6°൬38'51	
min. Earth dist.	1168 Sep 08 j 21:10	23°✕40'49	3.95930 AU	evening set	1174 Aug 31 j 17:17	24°൬13'47	
direct	1168 Nov 06 j 19:08	18°✕40'10		max. Earth dist.	1174 Sep 12 j 10:28	26°൬45'45	6.44546 AU
	1169 Feb 04 j 00:04	0°Υ					
evening set	1169 Mar 12 j 07:21	8°Υ20'38		conjunction	1174 Sep 13 j 16:59	27°൬02'17	1°08'10
				minimum elong	1174 Sep 13 j 16:59	27°൬02'17	1°08'09
conjunction	1169 Mar 25 j 16:45	11°Υ33'33	-1°-6'-26	morning rise	1174 Sep 26 j 13:45	29°൬49'24	
minimum elong	1169 Mar 25 j 16:46	11°Υ33'33	1°06'27		1174 Sep 27 j 09:26	0°Ω	
max. Earth dist.	1169 Mar 27 j 11:25	11°Υ59'12	5.96644 AU	retrograde	1175 Jan 24 j 16:31	16°Ω36'41	
morning rise	1169 Apr 08 j 05:08	14°Υ48'01		opposition	1175 Mar 26 j 07:39	11°Ω44'00	1°37'54
	1169 Jun 19 j 13:52	0°Ϟ		min. Earth dist.	1175 Mar 27 j 10:43	11°Ω35'19	4.43763 AU
retrograde	1169 Aug 18 j 05:36	5°Ϟ17'36		direct	1175 May 28 j 00:48	6°Ω42'01	
opposition	1169 Oct 16 j 20:36	0°Ϟ12'54	-1°-29'-5	evening set	1175 Oct 01 j 11:04	24°Ω19'05	
min. Earth dist.	1169 Oct 15 j 12:13	0°Ϟ23'55	3.99709 AU	max. Earth dist.	1175 Oct 12 j 07:53	26°Ω41'48	6.41032 AU
	1169 Oct 18 j 10:30	30°RΥ					
direct	1169 Dec 13 j 19:44	25°Υ16'53		conjunction	1175 Oct 14 j 05:15	27°Ω06'43	1°02'02
	1170 Feb 06 j 14:41	0°Ϟ		minimum elong	1175 Oct 14 j 05:16	27°Ω06'44	1°02'02
evening set	1170 Apr 18 j 18:30	14°Ϟ42'16		morning rise	1175 Oct 26 j 20:57	29°Ω53'19	
	1170 Apr 20 j 00:50	15°Ϟ			1175 Oct 27 j 09:12	0°൬	
conjunction	1170 May 02 j 10:40	17°Ϟ54'43	0°-46'-56	retrograde	1176 Jan 19 j 16:36	15°൬	
minimum elong	1170 May 02 j 10:43	17°Ϟ54'44	0°46'57		1176 Feb 25 j 00:28	16°൬59'22	
max. Earth dist.	1170 May 04 j 17:48	18°Ϟ27'05	6.04449 AU	opposition	1176 Apr 01 j 15:42	15°R൬	
morning rise	1170 May 16 j 04:59	21°Ϟ08'01		min. Earth dist.	1176 Apr 25 j 21:14	12°൬07'35	1°16'23
	1170 Jun 25 j 04:57	0°Π		direct	1176 Apr 27 j 08:48	11°൬56'16	4.36876 AU
retrograde	1170 Sep 22 j 15:10	10°Π48'05		evening set	1176 Jun 27 j 10:20	7°൬07'31	
min. Earth dist.	1170 Nov 19 j 19:25	5°Π54'43	4.10627 AU	max. Earth dist.	1176 Sep 12 j 17:37	15°൬	
opposition	1170 Nov 21 j 05:02	5°Π43'16	0°-44'-31		1176 Oct 31 j 06:59	25°൬02'13	
direct	1171 Jan 18 j 19:57	0°Π44'13		conjunction	1176 Nov 10 j 20:48	27°൬24'37	6.31270 AU
evening set	1171 May 25 j 08:36	19°Π36'45		minimum elong	1176 Nov 12 j 22:38	27°൬52'41	0°38'27
				morning rise	1176 Nov 12 j 22:40	27°൬52'42	0°38'26
conjunction	1171 Jun 08 j 02:48	22°Π44'14	0°-10'-58		1176 Nov 22 j 08:54	0°✕	
minimum elong	1171 Jun 08 j 02:49	22°Π44'14	0°10'59	morning rise	1176 Nov 25 j 13:11	0°✕42'47	
behind sun begin	1171 Jun 07 j 20:37	22°Π40'44		retrograde	1177 Mar 29 j 03:39	18°✕33'34	
behind sun end	1171 Jun 08 j 09:00	22°Π47'45		opposition	1177 May 29 j 01:50	13°✕40'57	0°31'44
max. Earth dist.	1171 Jun 09 j 23:50	23°Π09'51	6.17528 AU	min. Earth dist.	1177 May 30 j 10:49	13°✕30'25	4.24767 AU
morning rise	1171 Jun 21 j 21:20	25°Π51'34		direct	1177 Jul 29 j 18:06	8°✕43'18	
	1171 Jul 10 j 13:46	0°Ω		evening set	1177 Dec 02 j 03:04	27°✕08'44	
asc. node	1171 Sep 27 j 04:34	13°Ω05'31		max. Earth dist.	1177 Dec 13 j 05:52	29°✕43'04	6.17838 AU
retrograde	1171 Oct 25 j 18:49	14°Ω23'48					
opposition	1171 Dec 24 j 10:49	9°Ω21'28	0°12'40	conjunction	1177 Dec 14 j 19:35	0°Ω04'58	0°02'28
min. Earth dist.	1171 Dec 23 j 12:51	9°Ω28'52	4.24477 AU	minimum elong	1177 Dec 14 j 19:36	0°Ω04'59	0°02'27
direct	1172 Feb 22 j 08:53	4°Ω19'52		behind sun begin	1177 Dec 14 j 11:37	0°Ω00'22	
evening set	1172 Jun 28 j 05:19	22°Ω36'27		behind sun end	1177 Dec 15 j 03:35	0°Ω09'35	
					1177 Dec 14 j 11:02	0°Ω	
conjunction	1172 Jul 11 j 19:55	25°Ω36'33	0°27'11	morning rise	1177 Dec 27 j 12:10	3°Ω01'34	
minimum elong	1172 Jul 11 j 19:53	25°Ω36'32	0°27'10	desc. node	1178 Jan 08 j 01:31	5°Ω40'12	
max. Earth dist.	1172 Jul 12 j 18:39	25°Ω49'06	6.31080 AU	retrograde	1178 May 03 j 13:23	21°Ω55'35	
morning rise	1172 Jul 25 j 08:45	28°Ω35'35		opposition	1178 Jul 03 j 06:42	17°Ω00'43	0°-25'-57
	1172 Jul 31 j 19:32	0°Ω		min. Earth dist.	1178 Jul 04 j 02:40	16°Ω54'16	4.10927 AU
	1172 Oct 29 j 04:39	15°Ω		direct	1178 Sep 01 j 14:56	12°Ω05'36	
retrograde	1172 Nov 25 j 00:44	16°Ω08'30			1178 Dec 30 j 22:59	0°≈	
	1172 Dec 21 j 18:23	15°RΩ		evening set	1179 Jan 04 j 17:29	1°≈07'31	
opposition	1173 Jan 23 j 23:59	11°Ω09'56	1°02'38				
min. Earth dist.	1173 Jan 23 j 17:52	11°Ω11'58	4.36656 AU	conjunction	1179 Jan 17 j 13:27	4°≈10'47	0°-35'-59

minimum elong	1179 Jan 17 j 13:25	4°≈10'46	0°35'59	retrograde	1184 Nov 29 j 08:08	20°Ω33'34	
max. Earth dist.	1179 Jan 16 j 22:32	4°≈01'54	6.04828 AU	opposition	1185 Jan 28 j 07:18	15°Ω35'32	1°08'13
morning rise	1179 Jan 30 j 11:21	7°≈15'15		min. Earth dist.	1185 Jan 28 j 04:36	15°Ω36'25	4.37750 AU
	1179 Mar 05 j 10:08	15°≈			1185 Feb 01 j 19:04	15°RΩ	
retrograde	1179 Jun 09 j 21:20	27°≈13'38		direct	1185 Mar 30 j 16:58	10°Ω32'34	
opposition	1179 Aug 09 j 06:08	22°≈15'06	-1°-17'-49		1185 May 26 j 06:12	15°Ω	
min. Earth dist.	1179 Aug 09 j 04:05	22°≈15'46	3.99975 AU	evening set	1185 Aug 04 j 16:25	28°Ω19'26	
direct	1179 Oct 07 j 03:58	17°≈21'30			1185 Aug 12 j 10:26	0°mp	
	1180 Jan 10 j 19:21	0°✕					
evening set	1180 Feb 09 j 08:23	6°✕52'40		conjunction	1185 Aug 17 j 22:41	1°mp11'45	0°58'32
				minimum elong	1185 Aug 17 j 22:39	1°mp11'44	0°58'32
conjunction	1180 Feb 22 j 10:52	10°✕02'17	-1°-2'-32	max. Earth dist.	1185 Aug 17 j 13:44	1°mp06'54	6.41618 AU
minimum elong	1180 Feb 22 j 10:50	10°✕02'16	1°02'33	morning rise	1185 Aug 31 j 02:00	4°mp02'37	
max. Earth dist.	1180 Feb 23 j 05:15	10°✕13'24	5.96932 AU	retrograde	1185 Dec 29 j 14:03	20°mp56'55	
morning rise	1180 Mar 06 j 16:06	13°✕13'31		opposition	1186 Feb 27 j 22:23	16°mp02'18	1°35'14
	1180 May 27 j 20:06	0°Y		min. Earth dist.	1186 Feb 28 j 12:27	15°mp57'45	4.43921 AU
retrograde	1180 Jul 17 j 00:53	3°Y49'15		direct	1186 May 01 j 06:02	10°mp59'30	
	1180 Sep 05 j 18:43	30°R✕		evening set	1186 Sep 05 j 01:47	28°mp34'32	
opposition	1180 Sep 14 j 22:38	28°✕46'48	-1°-41'-13		1186 Sep 11 j 16:01	0°Ω	
min. Earth dist.	1180 Sep 14 j 00:55	28°✕54'07	3.96128 AU	max. Earth dist.	1186 Sep 16 j 15:34	1°Ω04'52	6.44343 AU
direct	1180 Nov 11 j 23:39	23°✕52'46					
	1181 Jan 13 j 19:30	0°Y		conjunction	1186 Sep 18 j 00:31	1°Ω22'45	1°08'25
evening set	1181 Mar 17 j 11:38	13°Y31'50		minimum elong	1186 Sep 18 j 00:30	1°Ω22'45	1°08'25
				morning rise	1186 Sep 30 j 20:27	4°Ω09'38	
conjunction	1181 Mar 30 j 21:59	16°Y44'52	-1°-5'-9	retrograde	1187 Jan 29 j 01:24	20°Ω58'19	
minimum elong	1181 Mar 30 j 22:01	16°Y44'53	1°05'11	opposition	1187 Mar 30 j 16:47	16°Ω05'57	1°36'26
max. Earth dist.	1181 Apr 01 j 18:58	17°Y11'50	5.97395 AU	min. Earth dist.	1187 Mar 31 j 21:52	15°Ω56'39	4.43157 AU
morning rise	1181 Apr 13 j 11:28	19°Y59'26		direct	1187 Jun 01 j 11:10	11°Ω04'17	
	1181 May 28 j 00:36	0°Z		evening set	1187 Oct 05 j 18:45	28°Ω42'58	
retrograde	1181 Aug 23 j 05:11	10°Z23'52			1187 Oct 11 j 15:24	0°M	
min. Earth dist.	1181 Oct 20 j 10:32	5°Z30'31	4.00947 AU	max. Earth dist.	1187 Oct 16 j 13:38	1°M05'02	6.40079 AU
opposition	1181 Oct 21 j 20:24	5°Z18'59	-1°-24'-29				
direct	1181 Dec 18 j 19:39	0°Z22'34		conjunction	1187 Oct 18 j 12:23	1°M30'46	0°59'42
	1182 Apr 03 j 04:54	15°Z		minimum elong	1187 Oct 18 j 12:24	1°M30'47	0°59'42
evening set	1182 Apr 23 j 21:20	19°Z43'57		morning rise	1187 Oct 31 j 03:46	4°M17'37	
					1187 Dec 23 j 09:40	15°M	
conjunction	1182 May 07 j 14:03	22°Z55'55	0°-42'-37	retrograde	1188 Feb 29 j 12:40	21°M28'08	
minimum elong	1182 May 07 j 14:06	22°Z55'57	0°42'38	opposition	1188 Apr 30 j 10:37	16°M36'19	1°11'21
max. Earth dist.	1182 May 09 j 19:37	23°Z27'15	6.06053 AU	min. Earth dist.	1188 May 01 j 21:26	16°M25'14	4.35652 AU
morning rise	1182 May 21 j 08:47	26°Z08'39			1188 May 13 j 06:42	15°RM	
	1182 Jun 07 j 06:01	0°II		direct	1188 Jul 01 j 21:25	11°M36'36	
retrograde	1182 Sep 27 j 08:07	15°II39'53			1188 Aug 19 j 17:09	15°M	
opposition	1182 Nov 25 j 21:54	10°II35'14	0°-36'-50	evening set	1188 Nov 04 j 16:20	29°M34'06	
min. Earth dist.	1182 Nov 24 j 14:12	10°II46'02	4.12407 AU		1188 Nov 06 j 14:34	0°Z	
direct	1183 Jan 23 j 17:17	5°II35'45		max. Earth dist.	1188 Nov 15 j 08:51	1°Z58'28	6.29891 AU
evening set	1183 May 30 j 06:30	24°II23'29					
				conjunction	1188 Nov 17 j 07:58	2°Z25'05	0°34'00
conjunction	1183 Jun 13 j 00:42	27°II30'09	0°-5'-31	minimum elong	1188 Nov 17 j 07:59	2°Z25'06	0°34'00
minimum elong	1183 Jun 13 j 00:42	27°II30'09	0°05'32	morning rise	1188 Nov 29 j 22:23	5°Z15'44	
behind sun begin	1183 Jun 12 j 16:40	27°II25'37		retrograde	1189 Apr 02 j 22:20	23°Z13'04	
behind sun end	1183 Jun 13 j 08:44	27°II34'40		opposition	1189 Jun 02 j 20:30	18°Z20'18	0°24'10
max. Earth dist.	1183 Jun 14 j 20:18	27°II54'50	6.19349 AU	min. Earth dist.	1189 Jun 04 j 04:29	18°Z10'05	4.23316 AU
	1183 Jun 24 j 01:49	0°S		direct	1189 Aug 03 j 09:47	13°Z23'03	
morning rise	1183 Jun 26 j 18:39	0°S36'27		desc. node	1189 Nov 18 j 22:08	27°Z50'10	
asc. node	1183 Aug 07 j 15:01	9°S30'32			1189 Nov 28 j 13:11	0°Z	
retrograde	1183 Oct 30 j 04:33	19°S00'07		evening set	1189 Dec 06 j 16:02	1°Z51'43	
opposition	1183 Dec 28 j 21:35	13°S58'17	0°20'24	max. Earth dist.	1189 Dec 17 j 20:23	4°Z27'30	6.16433 AU
min. Earth dist.	1183 Dec 28 j 01:02	14°S05'12	4.26177 AU				
direct	1184 Feb 26 j 23:12	8°S56'28		conjunction	1189 Dec 19 j 08:40	4°Z48'37	0°-3'-4
evening set	1184 Jul 02 j 21:36	27°S09'14		minimum elong	1189 Dec 19 j 08:40	4°Z48'37	0°03'05
	1184 Jul 15 j 20:05	0°Ω		behind sun begin	1189 Dec 19 j 00:41	4°Z44'00	
				behind sun end	1189 Dec 19 j 16:38	4°Z53'14	
conjunction	1184 Jul 16 j 11:12	0°Ω08'20	0°31'55	morning rise	1190 Jan 01 j 01:51	7°Z46'02	
minimum elong	1184 Jul 16 j 11:10	0°Ω08'19	0°31'55	retrograde	1190 May 08 j 12:44	26°Z47'23	
max. Earth dist.	1184 Jul 17 j 04:33	0°Ω17'53	6.32520 AU	opposition	1190 Jul 08 j 06:12	21°Z52'02	0°-33'-51
morning rise	1184 Jul 29 j 23:09	3°Ω06'21		min. Earth dist.	1190 Jul 08 j 22:57	21°Z46'37	4.09678 AU
	1184 Sep 28 j 04:59	15°Ω		direct	1190 Sep 06 j 09:40	16°Z57'11	

	1190 Dec 14 j 07:24	0°♊			1196 Jun 29 j 20:18	0°♈	
evening set	1191 Jan 09 j 11:04	6°♊01'56		evening set	1196 Jul 07 j 12:44	1°♈40'11	
conjunction	1191 Jan 22 j 07:47	9°♊05'54	0°-40'-35	conjunction	1196 Jul 21 j 01:41	4°♈38'28	0°36'22
minimum elong	1191 Jan 22 j 07:45	9°♊05'53	0°40'35	minimum elong	1196 Jul 21 j 01:38	4°♈38'27	0°36'22
max. Earth dist.	1191 Jan 21 j 22:06	9°♊00'07	6.03850 AU	max. Earth dist.	1196 Jul 21 j 17:06	4°♈46'57	6.33718 AU
morning rise	1191 Feb 04 j 06:18	12°♊11'06		morning rise	1196 Aug 03 j 12:26	7°♈35'32	
	1191 Feb 16 j 05:36	15°♊			1196 Sep 07 j 22:54	15°♈	
	1191 May 07 j 19:31	0°♋		retrograde	1196 Dec 03 j 13:41	24°♈57'40	
retrograde	1191 Jun 15 j 01:04	2°♋14'56		opposition	1197 Feb 01 j 14:03	20°♈00'07	1°13'19
	1191 Jul 23 j 08:32	30°♋		min. Earth dist.	1197 Feb 01 j 12:44	20°♈00'33	4.38701 AU
opposition	1191 Aug 14 j 08:05	27°♋15'54	-1°-23'00		1197 Mar 29 j 12:30	15°♋	
min. Earth dist.	1191 Aug 14 j 04:26	27°♋17'06	3.99375 AU	direct	1197 Apr 04 j 02:21	14°♋57'07	
direct	1191 Oct 12 j 03:31	22°♋22'22			1197 Apr 09 j 16:30	15°♋	
	1191 Dec 22 j 12:30	0°♌			1197 Jul 27 j 10:36	0°♌	
evening set	1192 Feb 14 j 06:43	11°♌54'42		evening set	1197 Aug 09 j 03:02	2°♌42'06	
conjunction	1192 Feb 27 j 10:01	15°♌04'48	-1°-4'-24	conjunction	1197 Aug 22 j 08:05	5°♌33'42	1°00'56
minimum elong	1192 Feb 27 j 10:00	15°♌04'48	1°04'25	minimum elong	1197 Aug 22 j 08:03	5°♌33'41	1°00'55
max. Earth dist.	1192 Feb 28 j 07:02	15°♌17'30	5.96745 AU	max. Earth dist.	1197 Aug 21 j 18:46	5°♌26'29	6.42239 AU
morning rise	1192 Mar 11 j 16:27	18°♌16'37		morning rise	1197 Sep 04 j 10:28	8°♌23'53	
	1192 May 03 j 08:13	0°♍		retrograde	1198 Jan 02 j 20:29	25°♌16'01	
retrograde	1192 Jul 22 j 01:43	8°♍52'53		opposition	1198 Mar 04 j 04:54	20°♌21'44	1°36'56
opposition	1192 Sep 19 j 22:52	3°♍50'04	-1°-41'-15	min. Earth dist.	1198 Mar 04 j 21:44	20°♌16'16	4.44180 AU
min. Earth dist.	1192 Sep 18 j 22:39	3°♍58'14	3.96409 AU	direct	1198 May 05 j 15:40	15°♌18'56	
	1192 Oct 22 j 19:37	30°♍			1198 Aug 26 j 19:14	0°♎	
direct	1192 Nov 16 j 21:44	28°♍55'47		evening set	1198 Sep 09 j 09:01	2°♎53'24	
	1192 Dec 12 j 00:30	0°♎		max. Earth dist.	1198 Sep 20 j 20:40	5°♎22'40	6.44195 AU
evening set	1193 Mar 22 j 12:10	18°♎33'46					
conjunction	1193 Apr 04 j 23:33	21°♎46'57	-1°-3'-27	conjunction	1198 Sep 22 j 07:01	5°♎41'20	1°08'17
minimum elong	1193 Apr 04 j 23:35	21°♎46'58	1°03'28	minimum elong	1198 Sep 22 j 07:01	5°♎41'20	1°08'17
max. Earth dist.	1193 Apr 06 j 21:21	22°♎14'21	5.98106 AU	morning rise	1198 Oct 05 j 02:01	8°♎27'55	
morning rise	1193 Apr 18 j 13:58	25°♎01'35		retrograde	1199 Feb 02 j 07:14	25°♎17'37	
	1193 May 09 j 23:15	0°♏		opposition	1199 Apr 04 j 00:52	20°♎25'19	1°34'24
	1193 Aug 13 j 09:25	15°♏		min. Earth dist.	1199 Apr 05 j 06:13	20°♎15'56	4.42601 AU
retrograde	1193 Aug 28 j 01:27	15°♏21'24		direct	1199 Jun 05 j 18:21	15°♎23'48	
	1193 Sep 11 j 15:49	15°♏			1199 Sep 25 j 20:48	0°♐	
min. Earth dist.	1193 Oct 25 j 06:53	10°♏27'46	4.01996 AU	evening set	1199 Oct 10 j 01:07	3°♐03'42	
opposition	1193 Oct 26 j 16:12	10°♏16'24	-1°-19'-29	max. Earth dist.	1199 Oct 20 j 19:04	5°♐25'36	6.39130 AU
direct	1193 Dec 23 j 17:34	5°♏19'34					
	1194 Mar 16 j 02:21	15°♏		conjunction	1199 Oct 22 j 18:12	5°♐51'38	0°57'02
evening set	1194 Apr 28 j 20:39	24°♏38'02		minimum elong	1199 Oct 22 j 18:14	5°♐51'39	0°57'01
				morning rise	1199 Nov 04 j 09:13	8°♐38'43	
conjunction	1194 May 12 j 14:07	27°♏49'42	0°-38'-9		1199 Dec 04 j 07:21	15°♐	
minimum elong	1194 May 12 j 14:10	27°♏49'44	0°38'11	retrograde	1200 Mar 05 j 01:09	25°♐53'38	
max. Earth dist.	1194 May 14 j 20:13	28°♏21'13	6.07371 AU	opposition	1200 May 04 j 22:58	21°♐01'47	1°05'54
	1194 May 21 j 22:04	0°♑		min. Earth dist.	1200 May 06 j 10:53	20°♐50'21	4.34325 AU
morning rise	1194 May 26 j 09:05	1°♑01'57		direct	1200 Jul 06 j 08:46	16°♐02'19	
retrograde	1194 Oct 01 j 22:56	20°♑25'40			1200 Oct 21 j 15:51	0°♒	
min. Earth dist.	1194 Nov 29 j 05:12	15°♑31'51	4.13856 AU	evening set	1200 Nov 09 j 00:22	4°♒02'53	
opposition	1194 Nov 30 j 12:03	15°♑21'22	0°-29'-13	max. Earth dist.	1200 Nov 19 j 16:16	6°♒27'29	6.28276 AU
direct	1195 Jan 28 j 10:19	10°♑21'33					
evening set	1195 Jun 04 j 02:31	29°♑05'52		conjunction	1200 Nov 21 j 15:55	6°♒54'30	0°29'20
	1195 Jun 08 j 02:50	0°♒		minimum elong	1200 Nov 21 j 15:57	6°♒54'31	0°29'20
conjunction	1195 Jun 17 j 20:18	2°♒11'44	0°00'-8	morning rise	1200 Dec 04 j 06:37	9°♒45'54	
minimum elong	1195 Jun 17 j 20:19	2°♒11'45	0°00'09	retrograde	1201 Apr 07 j 16:11	27°♒50'52	
behind sun begin	1195 Jun 17 j 12:03	2°♒07'06		opposition	1201 Jun 07 j 14:42	22°♒57'45	0°16'25
behind sun end	1195 Jun 18 j 04:35	2°♒16'23		min. Earth dist.	1201 Jun 08 j 20:37	22°♒48'11	4.21502 AU
max. Earth dist.	1195 Jun 19 j 11:40	2°♒33'57	6.20819 AU	direct	1201 Aug 07 j 23:10	18°♒00'48	
asc. node	1195 Jun 19 j 06:20	2°♒30'57		desc. node	1201 Sep 29 j 09:20	22°♒03'02	
morning rise	1195 Jul 01 j 13:59	5°♒17'13			1201 Nov 11 j 20:49	0°♓	
retrograde	1195 Nov 03 j 13:53	23°♒33'44		evening set	1201 Dec 11 j 04:55	6°♓34'09	
opposition	1196 Jan 02 j 07:00	18°♒32'21	0°27'48				
min. Earth dist.	1196 Jan 01 j 12:51	18°♒38'27	4.27551 AU	conjunction	1201 Dec 23 j 22:00	9°♓31'59	0°-8'-31
direct	1196 Mar 02 j 13:08	13°♒30'14		minimum elong	1201 Dec 23 j 21:59	9°♓31'59	0°08'32
				behind sun begin	1201 Dec 23 j 14:58	9°♓27'54	
				behind sun end	1201 Dec 24 j 05:01	9°♓36'04	

max. Earth dist.	1201 Dec 22 j 13:22	9°☾12'55	6.14580 AU	max. Earth dist.	1207 Jun 24 j 08:31	7°☾20'06	6.22918 AU
morning rise	1202 Jan 05 j 15:37	12°☾30'24		morning rise	1207 Jul 06 j 11:13	10°☾02'55	
	1202 Apr 10 j 12:19	0°♊		retrograde	1207 Nov 08 j 00:06	28°☾09'57	
retrograde	1202 May 13 j 15:30	1°♊40'55		opposition	1208 Jan 06 j 17:45	23°☾09'07	0°35'06
	1202 Jun 15 j 19:57	30°♊☾		min. Earth dist.	1208 Jan 06 j 01:22	23°☾14'36	4.29632 AU
opposition	1202 Jul 13 j 06:42	26°☾45'09	0°-41'-41	direct	1208 Mar 07 j 04:34	18°☾06'53	
min. Earth dist.	1202 Jul 13 j 22:02	26°☾40'10	4.07931 AU		1208 Jun 12 j 20:16	0°♋	
direct	1202 Sep 11 j 06:12	21°☾50'33		evening set	1208 Jul 12 j 03:52	6°♋11'23	
	1202 Nov 25 j 10:35	0°♊					
evening set	1203 Jan 14 j 06:53	11°♊00'10		conjunction	1208 Jul 25 j 15:35	9°♋08'25	0°40'36
				minimum elong	1208 Jul 25 j 15:33	9°♋08'24	0°40'37
conjunction	1203 Jan 27 j 04:17	14°♊05'08	0°-45'00	max. Earth dist.	1208 Jul 26 j 02:25	9°♋14'21	6.35607 AU
minimum elong	1203 Jan 27 j 04:15	14°♊05'06	0°45'02	morning rise	1208 Aug 08 j 01:16	12°♋04'14	
max. Earth dist.	1203 Jan 26 j 21:15	14°♊00'55	6.02362 AU		1208 Aug 21 j 16:16	15°♋	
	1203 Jan 30 j 23:52	15°♊		retrograde	1208 Dec 07 j 18:22	29°♋19'19	
morning rise	1203 Feb 09 j 03:55	17°♊11'26		opposition	1209 Feb 05 j 20:01	24°♋22'14	1°17'55
	1203 Apr 09 j 03:02	0°♋		min. Earth dist.	1209 Feb 05 j 21:26	24°♋21'46	4.40280 AU
retrograde	1203 Jun 20 j 06:18	7°♋22'32		direct	1209 Apr 08 j 12:32	19°♋19'08	
opposition	1203 Aug 19 j 12:32	2°♋22'59	-1°-27'-46		1209 Jul 10 j 13:14	0°♌	
min. Earth dist.	1203 Aug 19 j 05:08	2°♋25'26	3.98325 AU	evening set	1209 Aug 13 j 11:23	7°♌00'14	
	1203 Sep 07 j 07:59	30°♊♋					
direct	1203 Oct 17 j 03:04	27°♊29'29		conjunction	1209 Aug 26 j 15:26	9°♌50'56	1°02'58
	1203 Nov 25 j 08:09	0°♋		minimum elong	1209 Aug 26 j 15:24	9°♌50'55	1°02'57
evening set	1204 Feb 19 j 08:53	17°♋04'52		max. Earth dist.	1209 Aug 26 j 00:02	9°♌42'36	6.43381 AU
				morning rise	1209 Sep 08 j 16:25	12°♌40'09	
conjunction	1204 Mar 03 j 13:19	20°♋15'43	-1°-5'-52	retrograde	1210 Jan 06 j 22:02	29°♌28'51	
minimum elong	1204 Mar 03 j 13:18	20°♋15'43	1°05'52	opposition	1210 Mar 08 j 08:42	24°♌34'55	1°38'01
max. Earth dist.	1204 Mar 04 j 14:17	20°♋30'48	5.96221 AU	min. Earth dist.	1210 Mar 09 j 03:15	24°♌28'56	4.44817 AU
morning rise	1204 Mar 16 j 20:52	23°♋28'17		direct	1210 May 09 j 21:06	19°♌32'15	
	1204 Apr 13 j 21:09	0°♌			1210 Aug 10 j 05:28	0°♍	
retrograde	1204 Jul 27 j 07:57	14°♌06'18		evening set	1210 Sep 13 j 13:06	7°♍05'12	
min. Earth dist.	1204 Sep 24 j 01:42	9°♌11'43	3.96475 AU	max. Earth dist.	1210 Sep 24 j 19:46	9°♍31'54	6.44253 AU
opposition	1204 Sep 25 j 03:20	9°♌03'03	-1°-40'-33				
direct	1204 Nov 22 j 01:36	4°♌08'31		conjunction	1210 Sep 26 j 10:03	9°♍52'43	1°07'46
evening set	1205 Mar 27 j 17:31	23°♌46'07		minimum elong	1210 Sep 26 j 10:03	9°♍52'43	1°07'46
				morning rise	1210 Oct 09 j 04:24	12°♍39'01	
conjunction	1205 Apr 10 j 06:05	26°♌59'32	-1°-1'-11	retrograde	1211 Feb 06 j 12:38	29°♍29'34	
minimum elong	1205 Apr 10 j 06:07	26°♌59'33	1°01'11	opposition	1211 Apr 08 j 06:11	24°♍37'26	1°31'56
max. Earth dist.	1205 Apr 12 j 07:38	27°♌29'06	5.98767 AU	min. Earth dist.	1211 Apr 09 j 14:21	24°♍27'10	4.42061 AU
	1205 Apr 22 j 21:16	0°♌		direct	1211 Jun 10 j 00:39	19°♍36'04	
morning rise	1205 Apr 23 j 21:22	0°♌14'16			1211 Sep 09 j 09:53	0°♎	
	1205 Jul 03 j 07:54	15°♌		evening set	1211 Oct 14 j 03:57	7°♎17'21	
retrograde	1205 Sep 02 j 02:39	20°♌29'00		max. Earth dist.	1211 Oct 24 j 19:59	9°♎38'35	6.38015 AU
min. Earth dist.	1205 Oct 30 j 06:03	15°♌35'37	4.03197 AU				
opposition	1205 Oct 31 j 16:06	15°♌24'01	-1°-13'-41	conjunction	1211 Oct 26 j 20:44	10°♎05'35	0°54'07
	1205 Nov 03 j 14:40	15°♊♌		minimum elong	1211 Oct 26 j 20:46	10°♎05'36	0°54'08
direct	1205 Dec 28 j 18:30	10°♌26'53		morning rise	1211 Nov 08 j 11:26	12°♎53'00	
	1206 Feb 20 j 20:47	15°♌			1211 Nov 18 j 03:44	15°♎	
evening set	1206 May 04 j 00:49	29°♌41'46			1212 Feb 26 j 12:03	0°♏	
	1206 May 05 j 08:24	0°♎		retrograde	1212 Mar 09 j 09:49	0°♏13'19	
conjunction	1206 May 17 j 18:32	2°♎52'53	0°-33'-15		1212 Mar 21 j 08:26	30°♊♎	
minimum elong	1206 May 17 j 18:35	2°♎52'54	0°33'16	opposition	1212 May 09 j 08:38	25°♎21'21	1°00'15
max. Earth dist.	1206 May 19 j 23:03	3°♎23'20	6.09015 AU	min. Earth dist.	1212 May 10 j 20:12	25°♎10'02	4.32691 AU
morning rise	1206 May 31 j 13:52	6°♎04'29		direct	1212 Jul 10 j 14:39	20°♎22'09	
retrograde	1206 Oct 06 j 15:18	25°♎19'04			1212 Oct 04 j 16:28	0°♏	
min. Earth dist.	1206 Dec 03 j 22:59	20°♎25'19	4.15789 AU	evening set	1212 Nov 13 j 06:20	8°♏27'12	
opposition	1206 Dec 05 j 05:10	20°♎15'03	0°-21'-8	max. Earth dist.	1212 Nov 23 j 23:05	10°♏52'55	6.26246 AU
direct	1207 Feb 02 j 07:38	15°♎14'54					
asc. node	1207 Apr 29 j 06:36	25°♎12'43		conjunction	1212 Nov 25 j 21:55	11°♏19'37	0°24'37
	1207 May 22 j 08:16	0°☾		minimum elong	1212 Nov 25 j 21:57	11°♏19'38	0°24'38
evening set	1207 Jun 09 j 00:57	3°☾53'53		morning rise	1212 Dec 08 j 12:50	14°♏11'57	
					1213 Mar 03 j 03:17	0°♐	
conjunction	1207 Jun 22 j 18:27	6°☾58'42	0°05'24	retrograde	1213 Apr 12 j 11:21	2°♐26'18	
minimum elong	1207 Jun 22 j 18:27	6°☾58'42	0°05'23		1213 May 23 j 05:26	30°♊♏	
behind sun begin	1207 Jun 22 j 10:25	6°☾54'13		opposition	1213 Jun 12 j 07:40	27°♏32'56	0°08'42
behind sun end	1207 Jun 23 j 02:29	7°☾03'12		min. Earth dist.	1213 Jun 13 j 13:41	27°♏23'19	4.19190 AU
				desc. node	1213 Aug 11 j 00:31	22°♏36'29	

direct	1213 Aug 12 j 12:24	22°♄36'16		evening set	1219 Jun 13 j 23:44	8°♃42'05	
	1213 Oct 24 j 00:50	0°♃					
evening set	1213 Dec 15 j 17:27	11°♃16'21		conjunction	1219 Jun 27 j 16:34	11°♃45'41	0°10'52
max. Earth dist.	1213 Dec 27 j 03:49	13°♃57'04	6.12188 AU	minimum elong	1219 Jun 27 j 16:34	11°♃45'41	0°10'52
				behind sun begin	1219 Jun 27 j 10:20	11°♃42'13	
conjunction	1213 Dec 28 j 11:03	14°♃15'25	0°-13'-50	behind sun end	1219 Jun 27 j 22:48	11°♃49'09	
minimum elong	1213 Dec 28 j 11:02	14°♃15'24	0°13'50	max. Earth dist.	1219 Jun 29 j 03:09	12°♃05'01	6.25083 AU
behind sun begin	1213 Dec 28 j 06:40	14°♃12'51		morning rise	1219 Jul 11 j 08:37	14°♃48'36	
behind sun end	1213 Dec 28 j 15:24	14°♃17'58			1219 Sep 30 j 21:32	0°♃	
morning rise	1214 Jan 10 j 05:31	17°♃15'12		retrograde	1219 Nov 12 j 08:56	2°♃46'13	
	1214 Mar 11 j 10:03	0°♃			1219 Dec 24 j 19:50	30°♃	
retrograde	1214 May 18 j 17:02	6°♃37'00		opposition	1220 Jan 11 j 04:41	27°♃45'51	0°42'16
opposition	1214 Jul 18 j 07:40	1°♃40'46	0°-49'-13	min. Earth dist.	1220 Jan 10 j 14:15	27°♃50'40	4.31617 AU
min. Earth dist.	1214 Jul 18 j 19:28	1°♃36'55	4.05677 AU	direct	1220 Mar 11 j 19:29	22°♃43'22	
	1214 Jul 31 j 11:39	30°♃			1220 May 24 j 09:32	0°♃	
direct	1214 Sep 16 j 00:45	26°♃46'24		evening set	1220 Jul 16 j 19:22	10°♃43'02	
	1214 Oct 31 j 10:02	0°♃					
	1215 Jan 14 j 18:27	15°♃		conjunction	1220 Jul 30 j 06:06	13°♃38'57	0°44'41
evening set	1215 Jan 19 j 04:11	16°♃02'55		minimum elong	1220 Jul 30 j 06:04	13°♃38'56	0°44'41
				max. Earth dist.	1220 Jul 30 j 13:27	13°♃42'58	6.37264 AU
conjunction	1215 Feb 01 j 02:32	19°♃09'08	0°-49'-5		1220 Aug 05 j 10:28	15°♃	
minimum elong	1215 Feb 01 j 02:30	19°♃09'07	0°49'06	morning rise	1220 Aug 12 j 14:26	16°♃33'33	
max. Earth dist.	1215 Feb 01 j 00:14	19°♃07'45	6.00454 AU		1220 Oct 23 j 00:01	0°♃	
morning rise	1215 Feb 14 j 03:14	22°♃16'47		retrograde	1220 Dec 12 j 00:40	3°♃42'40	
	1215 Mar 19 j 16:14	0°♃			1221 Jan 31 j 15:10	30°♃	
retrograde	1215 Jun 25 j 15:56	12°♃36'45		opposition	1221 Feb 10 j 03:13	28°♃46'07	1°22'13
opposition	1215 Aug 24 j 19:15	7°♃36'36	-1°-31'-52	min. Earth dist.	1221 Feb 10 j 07:27	28°♃44'44	4.41501 AU
min. Earth dist.	1215 Aug 24 j 09:14	7°♃39'56	3.96974 AU	direct	1221 Apr 12 j 23:40	23°♃43'04	
direct	1215 Oct 22 j 06:47	2°♃43'03			1221 Jun 20 j 17:17	0°♃	
evening set	1216 Feb 24 j 14:03	22°♃22'25		evening set	1221 Aug 17 j 21:09	11°♃21'29	
conjunction	1216 Mar 08 j 19:49	25°♃34'10	-1°-6'-46	conjunction	1221 Aug 31 j 00:00	14°♃11'28	1°04'44
minimum elong	1216 Mar 08 j 19:49	25°♃34'10	1°06'47	minimum elong	1221 Aug 30 j 23:58	14°♃11'28	1°04'44
max. Earth dist.	1216 Mar 10 j 02:34	25°♃52'46	5.95561 AU	max. Earth dist.	1221 Aug 30 j 03:37	14°♃00'27	6.44059 AU
morning rise	1216 Mar 22 j 04:37	28°♃47'36		morning rise	1221 Sep 13 j 00:03	17°♃00'02	
	1216 Mar 27 j 05:47	0°♃			1221 Nov 21 j 08:57	0°♃	
retrograde	1216 Aug 01 j 16:19	19°♃26'57		retrograde	1222 Jan 11 j 04:07	3°♃47'04	
min. Earth dist.	1216 Sep 29 j 05:51	14°♃32'47	3.96606 AU		1222 Mar 03 j 23:11	30°♃	
opposition	1216 Sep 30 j 10:01	14°♃23'15	-1°-38'-56	opposition	1222 Mar 12 j 15:32	28°♃53'28	1°38'45
direct	1216 Nov 27 j 06:36	9°♃28'27		min. Earth dist.	1222 Mar 13 j 12:48	28°♃46'37	4.44935 AU
evening set	1217 Apr 02 j 01:57	29°♃05'04		direct	1222 May 14 j 05:42	23°♃50'53	
	1217 Apr 05 j 22:36	0°♃			1222 Jul 21 j 12:07	0°♃	
				evening set	1222 Sep 17 j 19:51	11°♃23'55	
conjunction	1217 Apr 15 j 15:24	2°♃18'30	0°-58'-20	max. Earth dist.	1222 Sep 29 j 00:40	13°♃49'47	6.43798 AU
minimum elong	1217 Apr 15 j 15:26	2°♃18'32	0°58'21				
max. Earth dist.	1217 Apr 17 j 18:23	2°♃48'50	5.99643 AU	conjunction	1222 Sep 30 j 16:12	14°♃11'20	1°06'55
morning rise	1217 Apr 29 j 07:47	5°♃33'15		minimum elong	1222 Sep 30 j 16:13	14°♃11'21	1°06'54
	1217 Jun 10 j 12:22	15°♃		morning rise	1222 Oct 13 j 09:41	16°♃57'31	
retrograde	1217 Sep 07 j 03:19	25°♃41'17			1222 Dec 21 j 12:19	0°♃	
min. Earth dist.	1217 Nov 04 j 06:19	20°♃48'06	4.04686 AU	retrograde	1223 Feb 10 j 20:31	3°♃50'41	
opposition	1217 Nov 05 j 17:26	20°♃36'07	-1°-7'-10		1223 Apr 04 j 13:57	30°♃	
direct	1218 Jan 02 j 22:31	15°♃38'27		opposition	1223 Apr 12 j 15:38	28°♃58'43	1°28'56
	1218 Apr 17 j 23:16	0°♃		min. Earth dist.	1223 Apr 14 j 00:24	28°♃48'16	4.41069 AU
evening set	1218 May 09 j 06:06	4°♃48'20		direct	1223 Jun 14 j 08:27	23°♃57'40	
					1223 Aug 20 j 12:42	0°♃	
conjunction	1218 May 23 j 00:17	7°♃58'43	0°-28'-1	evening set	1223 Oct 18 j 11:20	11°♃41'41	
minimum elong	1218 May 23 j 00:19	7°♃58'44	0°28'01	max. Earth dist.	1223 Oct 29 j 01:23	14°♃02'23	6.36557 AU
max. Earth dist.	1218 May 25 j 05:04	8°♃29'12	6.10971 AU				
morning rise	1218 Jun 05 j 19:28	11°♃09'21		conjunction	1223 Oct 31 j 03:39	14°♃30'20	0°50'48
	1218 Sep 29 j 16:24	0°♃		minimum elong	1223 Oct 31 j 03:41	14°♃30'21	0°50'49
retrograde	1218 Oct 11 j 09:24	0°♃13'32			1223 Nov 02 j 09:00	15°♃	
	1218 Oct 22 j 23:22	30°♃		morning rise	1223 Nov 12 j 18:18	17°♃18'19	
opposition	1218 Dec 09 j 22:59	25°♃09'48	0°-12'-50		1224 Jan 16 j 12:31	0°♃	
min. Earth dist.	1218 Dec 08 j 18:35	25°♃19'26	4.17952 AU	retrograde	1224 Mar 14 j 02:38	4°♃45'18	
direct	1219 Feb 07 j 06:25	20°♃09'14			1224 May 13 j 02:59	30°♃	
asc. node	1219 Mar 08 j 04:33	21°♃29'10		opposition	1224 May 14 j 00:02	29°♃53'17	0°53'58
	1219 May 03 j 22:00	0°♃		min. Earth dist.	1224 May 15 j 12:23	29°♃41'42	4.30837 AU

direct	1224 Jul 15 j 03:51	24°♄54'25		conjunction	1230 May 28 j 01:51	12°♂55'05	0°-22'-46
	1224 Sep 13 j 09:15	0°♂		minimum elong	1230 May 28 j 01:52	12°♂55'05	0°22'47
evening set	1224 Nov 17 j 17:17	13°♂04'28		max. Earth dist.	1230 May 30 j 04:54	13°♂24'24	6.13132 AU
max. Earth dist.	1224 Nov 28 j 11:28	15°♂31'41	6.24160 AU	morning rise	1230 Jun 10 j 20:58	16°♂04'40	
					1230 Aug 19 j 00:12	0°♂	
conjunction	1224 Nov 30 j 09:08	15°♂57'50	0°19'31	retrograde	1230 Oct 15 j 20:53	4°♂58'16	
minimum elong	1224 Nov 30 j 09:09	15°♂57'50	0°19'30	min. Earth dist.	1230 Dec 13 j 09:06	0°♂04'10	4.20124 AU
morning rise	1224 Dec 13 j 00:23	18°♂51'12			1230 Dec 13 j 21:23	30°♂♂	
	1225 Feb 04 j 03:57	0°♂		opposition	1230 Dec 14 j 12:25	29°♂54'55	0°-4'-46
retrograde	1225 Apr 17 j 09:59	7°♂15'15		asc. node	1231 Jan 16 j 13:26	26°♂02'13	
opposition	1225 Jun 17 j 06:30	2°♂21'37	0°00'27	direct	1231 Feb 11 j 23:14	24°♂54'00	
min. Earth dist.	1225 Jun 18 j 09:41	2°♂12'53	4.17032 AU		1231 Apr 12 j 04:34	0°♂	
desc. node	1225 Jun 20 j 08:03	1°♂58'01		evening set	1231 Jun 18 j 18:21	13°♂21'11	
	1225 Jul 06 j 10:31	30°♂♂					
direct	1225 Aug 17 j 05:06	27°♂25'25		conjunction	1231 Jul 02 j 10:32	16°♂23'39	0°16'05
	1225 Sep 27 j 08:09	0°♂		minimum elong	1231 Jul 02 j 10:30	16°♂23'38	0°16'06
evening set	1225 Dec 20 j 11:12	16°♂11'30		max. Earth dist.	1231 Jul 03 j 16:41	16°♂40'27	6.27094 AU
max. Earth dist.	1226 Jan 01 j 01:52	18°♂55'29	6.10161 AU	morning rise	1231 Jul 16 j 01:39	19°♂25'19	
					1231 Sep 05 j 19:28	0°♂	
conjunction	1226 Jan 02 j 05:16	19°♂11'39	0°-19'-21	retrograde	1231 Nov 16 j 16:46	7°♂14'42	
minimum elong	1226 Jan 02 j 05:14	19°♂11'39	0°19'22	opposition	1232 Jan 15 j 12:32	2°♂14'53	0°48'56
morning rise	1226 Jan 15 j 00:28	22°♂12'38		min. Earth dist.	1232 Jan 15 j 01:39	2°♂18'30	4.33307 AU
	1226 Feb 18 j 13:28	0°♂			1232 Feb 02 j 01:11	30°♂♂	
retrograde	1226 May 24 j 01:07	11°♂44'28		direct	1232 Mar 16 j 08:48	27°♂12'14	
opposition	1226 Jul 23 j 13:26	6°♂47'46	0°-56'-45		1232 Apr 29 j 01:37	0°♂	
min. Earth dist.	1226 Jul 23 j 22:31	6°♂44'48	4.03982 AU		1232 Jul 20 j 16:26	15°♂	
direct	1226 Sep 21 j 02:40	1°♂53'41		evening set	1232 Jul 21 j 07:29	15°♂08'08	
	1226 Dec 28 j 09:08	15°♂					
evening set	1227 Jan 24 j 05:26	21°♂14'52		conjunction	1232 Aug 03 j 17:11	18°♂03'08	0°48'24
				minimum elong	1232 Aug 03 j 17:09	18°♂03'07	0°48'24
conjunction	1227 Feb 06 j 04:46	24°♂22'03	0°-52'-57	max. Earth dist.	1232 Aug 03 j 20:11	18°♂04'46	6.38495 AU
minimum elong	1227 Feb 06 j 04:43	24°♂22'01	0°52'58	morning rise	1232 Aug 17 j 00:24	20°♂56'47	
max. Earth dist.	1227 Feb 06 j 08:04	24°♂24'02	5.99275 AU		1232 Sep 30 j 12:40	0°♂	
morning rise	1227 Feb 19 j 06:29	27°♂30'41		retrograde	1232 Dec 16 j 03:49	8°♂01'39	
	1227 Mar 01 j 18:02	0°♂		opposition	1233 Feb 14 j 08:26	3°♂05'32	1°26'00
retrograde	1227 Jul 01 j 02:12	17°♂56'05		min. Earth dist.	1233 Feb 14 j 14:57	3°♂03'24	4.42232 AU
opposition	1227 Aug 30 j 03:40	12°♂55'25	-1°-35'-18		1233 Mar 11 j 21:58	30°♂♂	
min. Earth dist.	1227 Aug 29 j 14:09	12°♂59'55	3.96491 AU	direct	1233 Apr 17 j 07:17	28°♂02'27	
direct	1227 Oct 27 j 11:01	8°♂01'55			1233 May 24 j 03:10	0°♂	
evening set	1228 Feb 29 j 20:22	27°♂41'58		evening set	1233 Aug 22 j 05:11	15°♂39'50	
	1228 Mar 10 j 09:31	0°♂		max. Earth dist.	1233 Sep 03 j 08:02	18°♂16'52	6.44238 AU
conjunction	1228 Mar 14 j 03:04	0°♂54'05	-1°-7'-11	conjunction	1233 Sep 04 j 07:06	18°♂29'21	1°06'07
minimum elong	1228 Mar 14 j 03:04	0°♂54'05	1°07'12	minimum elong	1233 Sep 04 j 07:04	18°♂29'21	1°06'08
max. Earth dist.	1228 Mar 15 j 12:50	1°♂14'28	5.95792 AU	morning rise	1233 Sep 17 j 06:02	21°♂17'26	
morning rise	1228 Mar 27 j 13:07	4°♂07'54			1233 Oct 30 j 05:06	0°♂	
retrograde	1228 Aug 06 j 20:59	24°♂44'51		retrograde	1234 Jan 15 j 09:28	8°♂04'22	
min. Earth dist.	1228 Oct 04 j 08:39	19°♂51'07	3.97536 AU	opposition	1234 Mar 16 j 21:43	3°♂11'07	1°38'57
opposition	1228 Oct 05 j 15:13	19°♂40'44	-1°-36'-32	min. Earth dist.	1234 Mar 17 j 21:11	3°♂03'34	4.44575 AU
direct	1228 Dec 02 j 11:59	14°♂45'34			1234 Apr 12 j 18:59	30°♂♂	
	1229 Mar 19 j 19:12	0°♂		direct	1234 May 18 j 13:20	28°♂08'44	
evening set	1229 Apr 07 j 08:01	4°♂18'28			1234 Jun 23 j 12:46	0°♂	
				evening set	1234 Sep 22 j 02:32	15°♂43'12	
conjunction	1229 Apr 20 j 22:27	7°♂31'36	0°-55'-8	max. Earth dist.	1234 Oct 03 j 03:03	18°♂07'10	6.42914 AU
minimum elong	1229 Apr 20 j 22:30	7°♂31'38	0°55'09				
max. Earth dist.	1229 Apr 23 j 04:03	8°♂03'22	6.01175 AU	conjunction	1234 Oct 04 j 22:06	18°♂30'41	1°05'42
morning rise	1229 May 04 j 15:19	10°♂45'52		minimum elong	1234 Oct 04 j 22:07	18°♂30'41	1°05'42
	1229 May 22 j 23:18	15°♂		morning rise	1234 Oct 17 j 15:12	21°♂17'01	
	1229 Aug 21 j 14:57	0°♂			1234 Nov 29 j 04:43	0°♂	
retrograde	1229 Sep 12 j 02:16	0°♂45'03		retrograde	1235 Feb 15 j 07:30	8°♂14'09	
	1229 Oct 03 j 07:02	30°♂♂		opposition	1235 Apr 17 j 02:13	3°♂22'14	1°25'25
min. Earth dist.	1229 Nov 09 j 05:09	25°♂51'33	4.06627 AU	min. Earth dist.	1235 Apr 18 j 12:14	3°♂11'22	4.39727 AU
opposition	1229 Nov 10 j 15:12	25°♂39'56	-1°00'-23		1235 May 16 j 03:58	30°♂♂	
direct	1230 Jan 08 j 00:10	20°♂41'50		direct	1235 Jun 18 j 18:16	28°♂21'25	
	1230 Mar 30 j 04:58	0°♂			1235 Jul 22 j 09:17	0°♂	
evening set	1230 May 14 j 07:37	9°♂45'38			1235 Oct 17 j 14:02	15°♂	
				evening set	1235 Oct 22 j 19:22	16°♂09'01	

max. Earth dist.	1235 Nov 02 j 10:31	18°♁30'51	6.34874 AU	max. Earth dist.	1241 Apr 28 j 09:22	13°♁09'38	6.02622 AU
conjunction	1235 Nov 04 j 11:38	18°♁58'16	0°47'10	morning rise	1241 May 06 j 04:50	15°♁	
minimum elong	1235 Nov 04 j 11:40	18°♁58'18	0°47'10		1241 May 09 j 20:58	15°♁51'38	
morning rise	1235 Nov 17 j 02:04	21°♁46'53		retrograde	1241 Jul 16 j 16:02	0°♁	
	1235 Dec 26 j 00:17	0°♁			1241 Sep 16 j 20:36	5°♁42'27	
retrograde	1236 Mar 18 j 18:31	9°♁21'08		min. Earth dist.	1241 Nov 14 j 00:06	0°♁49'11	4.08365 AU
opposition	1236 May 18 j 16:58	4°♁28'59	0°47'16	opposition	1241 Nov 15 j 10:27	0°♁37'28	0°-53'-19
min. Earth dist.	1236 May 20 j 03:58	4°♁17'50	4.28924 AU	direct	1241 Nov 20 j 00:44	30°♁	
	1236 Jul 01 j 18:55	30°♁			1242 Jan 12 j 21:16	25°♁38'58	
direct	1236 Jul 19 j 16:38	29°♁30'32		evening set	1242 Mar 07 j 03:01	0°♁	
	1236 Aug 06 j 15:38	0°♁			1242 May 19 j 07:33	14°♁37'53	
evening set	1236 Nov 22 j 05:55	17°♁45'27		conjunction	1242 Jun 02 j 01:50	17°♁46'31	0°-17'-26
max. Earth dist.	1236 Dec 03 j 01:51	20°♁14'23	6.22180 AU	minimum elong	1242 Jun 02 j 01:51	17°♁46'32	0°17'27
conjunction	1236 Dec 04 j 21:46	20°♁39'39	0°14'14	max. Earth dist.	1242 Jun 04 j 01:42	18°♁13'54	6.15018 AU
minimum elong	1236 Dec 04 j 21:47	20°♁39'40	0°14'14	morning rise	1242 Jun 15 j 20:46	20°♁55'11	
behind sun begin	1236 Dec 04 j 17:47	20°♁37'22			1242 Jul 28 j 03:40	0°♁	
behind sun end	1236 Dec 05 j 01:47	20°♁41'57		retrograde	1242 Oct 20 j 10:01	9°♁39'40	
morning rise	1236 Dec 17 j 13:29	23°♁34'01		asc. node	1242 Nov 26 j 22:35	7°♁25'28	
	1237 Jan 15 j 13:59	0°♁		min. Earth dist.	1242 Dec 18 j 00:46	4°♁45'00	4.21960 AU
retrograde	1237 Apr 22 j 11:21	12°♁07'11		opposition	1242 Dec 19 j 01:08	4°♁36'45	0°03'12
desc. node	1237 Apr 29 j 15:12	12°♁02'18			1243 Jan 31 j 22:33	30°♁	
opposition	1237 Jun 22 j 06:34	7°♁13'09	0°-7'-52	direct	1243 Feb 16 j 17:12	29°♁35'33	
min. Earth dist.	1237 Jun 23 j 07:52	7°♁05'01	4.15121 AU	evening set	1243 Mar 04 j 14:19	0°♁	
direct	1237 Aug 22 j 01:48	2°♁17'15			1243 Jun 23 j 12:27	17°♁58'23	
evening set	1237 Dec 25 j 05:45	21°♁08'11		conjunction	1243 Jul 07 j 04:05	20°♁59'53	0°21'12
max. Earth dist.	1238 Jan 06 j 01:46	23°♁55'51	6.08498 AU	minimum elong	1243 Jul 07 j 04:03	20°♁59'52	0°21'12
conjunction	1238 Jan 07 j 00:30	24°♁09'18	0°-24'-45	max. Earth dist.	1243 Jul 08 j 07:28	21°♁15'05	6.28743 AU
minimum elong	1238 Jan 07 j 00:28	24°♁09'17	0°24'46	morning rise	1243 Jul 20 j 18:14	24°♁00'28	
morning rise	1238 Jan 19 j 20:22	27°♁11'19			1243 Aug 17 j 19:19	0°♁	
	1238 Jan 31 j 21:46	0°♁		retrograde	1243 Nov 20 j 22:41	11°♁42'58	
	1238 Apr 24 j 15:08	15°♁		opposition	1244 Jan 19 j 20:27	6°♁43'43	0°55'20
retrograde	1238 May 29 j 07:39	16°♁51'13		min. Earth dist.	1244 Jan 19 j 11:12	6°♁46'47	4.34659 AU
	1238 Jul 03 j 02:06	15°♁		direct	1244 Mar 20 j 19:41	1°♁40'59	
opposition	1238 Jul 28 j 18:46	11°♁53'59	-1°-3'-49	evening set	1244 Jul 04 j 06:17	15°♁	
min. Earth dist.	1238 Jul 29 j 00:28	11°♁52'07	4.02735 AU		1244 Jul 25 j 20:23	19°♁34'21	
direct	1238 Sep 26 j 02:58	7°♁00'07		conjunction	1244 Aug 08 j 04:59	22°♁28'31	0°51'52
	1238 Dec 08 j 21:17	15°♁		minimum elong	1244 Aug 08 j 04:57	22°♁28'30	0°51'52
evening set	1239 Jan 29 j 06:10	26°♁24'14		max. Earth dist.	1244 Aug 08 j 03:24	22°♁27'40	6.39450 AU
conjunction	1239 Feb 11 j 06:13	29°♁32'06	0°-56'-23	morning rise	1244 Aug 21 j 11:07	25°♁21'20	
minimum elong	1239 Feb 11 j 06:11	29°♁32'04	0°56'23		1244 Sep 12 j 09:52	0°♁	
max. Earth dist.	1239 Feb 11 j 13:02	29°♁36'12	5.98527 AU	retrograde	1244 Dec 20 j 10:28	12°♁22'55	
	1239 Feb 13 j 04:29	0°♁		opposition	1245 Feb 18 j 15:02	7°♁27'20	1°29'21
morning rise	1239 Feb 24 j 09:05	2°♁41'32		min. Earth dist.	1245 Feb 19 j 00:46	7°♁24'09	4.42749 AU
retrograde	1239 Jul 06 j 08:06	23°♁10'28		direct	1245 Apr 21 j 17:39	2°♁24'20	
opposition	1239 Sep 04 j 09:54	18°♁09'12	-1°-37'-55	evening set	1245 Aug 26 j 14:14	20°♁01'12	
min. Earth dist.	1239 Sep 03 j 17:06	18°♁14'49	3.96334 AU	conjunction	1245 Sep 08 j 15:14	22°♁50'21	1°07'11
direct	1239 Nov 01 j 14:51	13°♁15'33		minimum elong	1245 Sep 08 j 15:13	22°♁50'20	1°07'10
	1240 Feb 22 j 17:32	0°♁		max. Earth dist.	1245 Sep 07 j 12:45	22°♁36'00	6.44267 AU
evening set	1240 Mar 06 j 00:46	2°♁55'20		morning rise	1245 Sep 21 j 13:16	25°♁38'04	
conjunction	1240 Mar 19 j 08:42	6°♁07'46	-1°-7'-4		1245 Oct 12 j 05:30	0°♁	
minimum elong	1240 Mar 19 j 08:42	6°♁07'46	1°07'04	retrograde	1246 Jan 19 j 16:20	12°♁25'32	
max. Earth dist.	1240 Mar 20 j 23:08	6°♁30'55	5.96237 AU	opposition	1246 Mar 21 j 05:52	7°♁32'34	1°38'38
morning rise	1240 Apr 01 j 19:38	9°♁21'48		min. Earth dist.	1246 Mar 22 j 06:25	7°♁24'40	4.44157 AU
retrograde	1240 Aug 12 j 01:13	29°♁55'24		direct	1246 May 22 j 21:40	2°♁30'25	
min. Earth dist.	1240 Oct 09 j 10:37	25°♁01'30	3.98534 AU	evening set	1246 Sep 26 j 10:20	20°♁06'19	
opposition	1240 Oct 10 j 17:27	24°♁51'02	-1°-33'-26	max. Earth dist.	1246 Oct 07 j 10:20	22°♁30'20	6.42099 AU
direct	1240 Dec 07 j 15:45	19°♁55'31		conjunction	1246 Oct 09 j 05:20	22°♁53'53	1°04'08
	1241 Mar 01 j 09:41	0°♁		minimum elong	1246 Oct 09 j 05:21	22°♁53'54	1°04'08
evening set	1241 Apr 12 j 12:10	9°♁24'56		morning rise	1246 Oct 21 j 21:44	25°♁40'20	
conjunction	1241 Apr 26 j 03:21	12°♁37'46	0°-51'-34		1246 Nov 11 j 03:59	0°♁	
minimum elong	1241 Apr 26 j 03:23	12°♁37'47	0°51'35	retrograde	1247 Feb 19 j 18:22	12°♁41'14	
				opposition	1247 Apr 21 j 14:16	7°♁49'27	1°21'25

min. Earth dist.	1247 Apr 23 j 00:42	7°♄38'30	4.38582 AU	evening set	1253 Apr 17 j 12:33	14°♄22'29	
direct	1247 Jun 23 j 05:17	2°♄49'03			1253 Apr 20 j 04:37	15°♄	
	1247 Sep 30 j 21:52	15°♄					
evening set	1247 Oct 27 j 04:27	20°♄39'24		conjunction	1253 May 01 j 04:26	17°♄35'04	0°-47'-46
max. Earth dist.	1247 Nov 06 j 18:37	23°♄01'15	6.33498 AU	minimum elong	1253 May 01 j 04:29	17°♄35'06	0°47'46
				max. Earth dist.	1253 May 03 j 09:26	18°♄06'15	6.03885 AU
conjunction	1247 Nov 08 j 20:19	23°♄29'05	0°43'16	morning rise	1253 May 14 j 22:35	20°♄48'35	
minimum elong	1247 Nov 08 j 20:21	23°♄29'06	0°43'15		1253 Jun 25 j 10:47	0°♄	
morning rise	1247 Nov 21 j 10:51	26°♄18'16		retrograde	1253 Sep 21 j 13:13	10°♄32'09	
	1247 Dec 08 j 06:47	0°♄		min. Earth dist.	1253 Nov 18 j 17:59	5°♄38'24	4.09809 AU
retrograde	1248 Mar 23 j 12:04	13°♄58'51		opposition	1253 Nov 20 j 02:32	5°♄27'17	0°-46'-9
opposition	1248 May 23 j 10:33	9°♄06'30	0°40'17	direct	1254 Jan 17 j 17:10	0°♄28'22	
min. Earth dist.	1248 May 24 j 20:27	8°♄55'41	4.27402 AU	evening set	1254 May 24 j 04:44	19°♄23'36	
direct	1248 Jul 24 j 07:48	4°♄08'24					
evening set	1248 Nov 26 j 18:01	22°♄26'44		conjunction	1254 Jun 06 j 23:09	22°♄31'35	0°-12'-10
max. Earth dist.	1248 Dec 07 j 17:55	24°♄58'27	6.20656 AU	minimum elong	1254 Jun 06 j 23:10	22°♄31'36	0°12'12
				behind sun begin	1254 Jun 06 j 17:41	22°♄28'29	
conjunction	1248 Dec 09 j 10:11	25°♄21'40	0°08'56	behind sun end	1254 Jun 07 j 04:39	22°♄34'42	
minimum elong	1248 Dec 09 j 10:11	25°♄21'41	0°08'56	max. Earth dist.	1254 Jun 08 j 21:59	22°♄58'16	6.16547 AU
behind sun begin	1248 Dec 09 j 03:19	25°♄17'44		morning rise	1254 Jun 20 j 17:44	25°♄39'25	
behind sun end	1248 Dec 09 j 17:03	25°♄25'37			1254 Jul 10 j 07:37	0°♄	
morning rise	1248 Dec 22 j 02:06	28°♄16'48		asc. node	1254 Oct 08 j 13:44	13°♄50'12	
	1248 Dec 29 j 15:00	0°♄		retrograde	1254 Oct 24 j 19:49	14°♄16'08	
desc. node	1249 Mar 10 j 03:58	13°♄30'34		opposition	1254 Dec 23 j 11:40	9°♄13'42	0°10'54
retrograde	1249 Apr 27 j 10:28	16°♄57'28		min. Earth dist.	1254 Dec 22 j 12:22	9°♄21'33	4.23445 AU
opposition	1249 Jun 27 j 05:39	12°♄03'06	0°-15'-59	direct	1255 Feb 21 j 06:54	4°♄12'14	
min. Earth dist.	1249 Jun 28 j 04:32	11°♄55'43	4.13710 AU	evening set	1255 Jun 28 j 05:04	22°♄31'52	
direct	1249 Aug 26 j 20:31	7°♄07'33					
evening set	1249 Dec 29 j 22:47	26°♄01'35		conjunction	1255 Jul 11 j 19:50	25°♄32'29	0°26'03
				minimum elong	1255 Jul 11 j 19:48	25°♄32'28	0°26'02
conjunction	1250 Jan 11 j 17:49	29°♄03'23	0°-29'-49	max. Earth dist.	1255 Jul 12 j 18:22	25°♄44'58	6.30077 AU
minimum elong	1250 Jan 11 j 17:47	29°♄03'22	0°29'51	morning rise	1255 Jul 25 j 09:14	28°♄32'09	
max. Earth dist.	1250 Jan 10 j 21:44	28°♄51'27	6.07312 AU		1255 Aug 01 j 02:01	0°♄	
	1250 Jan 15 j 17:13	0°♄			1255 Oct 29 j 07:50	15°♄	
morning rise	1250 Jan 24 j 14:31	2°♄06'13		retrograde	1255 Nov 25 j 06:18	16°♄08'54	
	1250 Mar 25 j 19:47	15°♄			1255 Dec 22 j 00:21	15°♄	
retrograde	1250 Jun 03 j 10:15	21°♄52'31		opposition	1256 Jan 24 j 03:52	11°♄10'08	1°01'15
opposition	1250 Aug 02 j 21:12	16°♄54'42	-1°-10'-11	min. Earth dist.	1256 Jan 23 j 21:42	11°♄12'11	4.35759 AU
min. Earth dist.	1250 Aug 02 j 23:33	16°♄53'56	4.01891 AU	direct	1256 Mar 25 j 07:56	6°♄07'16	
	1250 Aug 17 j 20:35	15°♄			1256 Jun 16 j 06:39	15°♄	
direct	1250 Oct 01 j 01:20	12°♄00'55		evening set	1256 Jul 30 j 08:03	23°♄58'29	
	1250 Nov 13 j 07:00	15°♄					
	1251 Jan 28 j 02:39	0°♄		conjunction	1256 Aug 12 j 15:46	26°♄51'56	0°54'57
evening set	1251 Feb 03 j 03:59	1°♄26'44		minimum elong	1256 Aug 12 j 15:44	26°♄51'55	0°54'58
				max. Earth dist.	1256 Aug 12 j 12:06	26°♄49'57	6.40235 AU
conjunction	1251 Feb 16 j 05:03	4°♄35'11	0°-59'-16	morning rise	1256 Aug 25 j 20:39	29°♄43'57	
minimum elong	1251 Feb 16 j 05:01	4°♄35'10	0°59'17		1256 Aug 27 j 02:23	0°♄	
max. Earth dist.	1251 Feb 16 j 17:11	4°♄42'30	5.98104 AU	retrograde	1256 Dec 24 j 14:28	16°♄42'38	
morning rise	1251 Mar 01 j 08:42	7°♄45'11		opposition	1257 Feb 22 j 21:15	11°♄47'25	1°32'09
retrograde	1251 Jul 11 j 12:22	28°♄16'11		min. Earth dist.	1257 Feb 23 j 07:59	11°♄43'56	4.43196 AU
opposition	1251 Sep 09 j 12:03	23°♄14'26	-1°-39'-39	direct	1257 Apr 26 j 01:30	6°♄44'29	
min. Earth dist.	1251 Sep 08 j 18:01	23°♄20'29	3.96397 AU	evening set	1257 Aug 30 j 22:35	24°♄20'35	
direct	1251 Nov 06 j 15:51	18°♄20'37					
	1252 Feb 05 j 08:57	0°♄		conjunction	1257 Sep 12 j 22:31	27°♄09'17	1°07'50
evening set	1252 Mar 11 j 01:34	7°♄59'36		minimum elong	1257 Sep 12 j 22:30	27°♄09'17	1°07'49
				max. Earth dist.	1257 Sep 11 j 17:29	26°♄53'33	6.44331 AU
conjunction	1252 Mar 24 j 10:26	11°♄12'14	-1°-6'-26	morning rise	1257 Sep 25 j 19:38	29°♄56'36	
minimum elong	1252 Mar 24 j 10:26	11°♄12'15	1°06'27		1257 Sep 26 j 01:56	0°♄	
max. Earth dist.	1252 Mar 26 j 02:31	11°♄36'20	5.96754 AU	retrograde	1258 Jan 23 j 23:18	16°♄44'13	
morning rise	1252 Apr 06 j 22:32	14°♄26'31		opposition	1258 Mar 25 j 13:25	11°♄51'29	1°37'45
	1252 Jun 20 j 12:34	0°♄		min. Earth dist.	1258 Mar 26 j 16:17	11°♄42'52	4.43822 AU
retrograde	1252 Aug 16 j 23:13	4°♄56'29		direct	1258 May 27 j 07:15	6°♄49'29	
min. Earth dist.	1252 Oct 14 j 07:00	0°♄02'55	3.99467 AU	evening set	1258 Sep 30 j 16:57	24°♄26'10	
	1252 Oct 14 j 15:34	30°♄		max. Earth dist.	1258 Oct 11 j 14:15	26°♄49'02	6.41358 AU
opposition	1252 Oct 15 j 15:23	29°♄51'54	-1°-29'-47				
direct	1252 Dec 12 j 13:10	24°♄56'00		conjunction	1258 Oct 13 j 11:20	27°♄13'46	1°02'11
	1253 Feb 07 j 12:48	0°♄		minimum elong	1258 Oct 13 j 11:21	27°♄13'47	1°02'12

morning rise	1258 Oct 26 j 03:18	0°♁00'20		retrograde	1264 Aug 22 j 01:46	10°♁07'34	
	1258 Oct 26 j 02:42	0°♁		min. Earth dist.	1264 Oct 19 j 08:19	5°♁13'55	4.00320 AU
	1259 Jan 18 j 00:47	15°♁		opposition	1264 Oct 20 j 16:56	5°♁02'47	-1°-25'-19
retrograde	1259 Feb 24 j 04:12	17°♁04'45		direct	1264 Dec 17 j 16:19	0°♁06'32	
	1259 Apr 02 j 16:30	15°♁			1265 Apr 03 j 02:12	15°♁	
opposition	1259 Apr 26 j 01:24	12°♁12'54	1°16'57	evening set	1265 Apr 22 j 17:27	19°♁30'27	
min. Earth dist.	1259 Apr 27 j 11:50	12°♁01'56	4.37452 AU				
direct	1259 Jun 27 j 14:40	7°♁12'44		conjunction	1265 May 06 j 10:11	22°♁42'48	0°-43'-28
	1259 Sep 12 j 12:34	15°♁		minimum elong	1265 May 06 j 10:14	22°♁42'49	0°43'28
evening set	1259 Oct 31 j 11:54	25°♁05'42		max. Earth dist.	1265 May 08 j 17:02	23°♁14'56	6.05235 AU
max. Earth dist.	1259 Nov 11 j 03:41	27°♁28'54	6.32054 AU	morning rise	1265 May 20 j 04:45	25°♁55'53	
					1265 Jun 06 j 23:59	0°♁	
conjunction	1259 Nov 13 j 03:42	27°♁55'53	0°39'07	retrograde	1265 Sep 26 j 08:54	15°♁31'17	
minimum elong	1259 Nov 13 j 03:44	27°♁55'54	0°39'07	opposition	1265 Nov 24 j 21:58	10°♁26'43	0°-38'-25
	1259 Nov 22 j 08:32	0°♁		min. Earth dist.	1265 Nov 23 j 13:19	10°♁37'50	4.11526 AU
morning rise	1259 Nov 25 j 18:02	0°♁45'37		direct	1266 Jan 22 j 15:11	5°♁27'30	
retrograde	1260 Mar 28 j 04:35	18°♁32'57		evening set	1266 May 29 j 05:29	24°♁17'56	
opposition	1260 May 28 j 03:12	13°♁40'27	0°33'03				
min. Earth dist.	1260 May 29 j 12:47	13°♁29'45	4.25705 AU	conjunction	1266 Jun 11 j 23:35	27°♁24'59	0°-6'-40
direct	1260 Jul 28 j 21:29	8°♁42'44		minimum elong	1266 Jun 11 j 23:36	27°♁24'59	0°06'40
evening set	1260 Dec 01 j 05:36	27°♁05'19		behind sun begin	1266 Jun 11 j 15:48	27°♁20'35	
max. Earth dist.	1260 Dec 12 j 06:05	29°♁38'02	6.18836 AU	behind sun end	1266 Jun 12 j 07:24	27°♁29'23	
				max. Earth dist.	1266 Jun 13 j 19:13	27°♁49'43	6.18509 AU
conjunction	1260 Dec 13 j 21:49	0°♁01'03	0°03'34		1266 Jun 23 j 09:28	0°♁	
minimum elong	1260 Dec 13 j 21:50	0°♁01'04	0°03'34	morning rise	1266 Jun 25 j 17:55	0°♁31'47	
behind sun begin	1260 Dec 13 j 13:55	29°♁56'30		asc. node	1266 Aug 18 j 09:14	11°♁39'44	
behind sun end	1260 Dec 14 j 05:46	0°♁05'38		retrograde	1266 Oct 29 j 08:05	18°♁59'04	
	1260 Dec 13 j 20:03	0°♁		min. Earth dist.	1266 Dec 27 j 03:19	14°♁04'15	4.25483 AU
morning rise	1260 Dec 26 j 14:21	2°♁57'10		opposition	1266 Dec 28 j 00:41	13°♁57'03	0°18'44
desc. node	1261 Jan 18 j 12:45	8°♁07'15		direct	1267 Feb 26 j 01:20	8°♁55'19	
retrograde	1261 May 02 j 09:51	21°♁46'46		evening set	1267 Jul 02 j 22:54	27°♁09'35	
opposition	1261 Jul 02 j 04:25	16°♁51'58	0°-24'-6		1267 Jul 15 j 20:35	0°♁	
min. Earth dist.	1261 Jul 03 j 00:42	16°♁45'25	4.11894 AU				
direct	1261 Aug 31 j 14:20	11°♁56'42		conjunction	1267 Jul 16 j 12:56	0°♁09'01	0°30'50
	1261 Dec 30 j 17:49	0°♁		minimum elong	1267 Jul 16 j 12:54	0°♁09'00	0°30'49
evening set	1262 Jan 03 j 16:29	0°♁55'45		max. Earth dist.	1267 Jul 17 j 09:52	0°♁20'33	6.32057 AU
				morning rise	1267 Jul 30 j 01:01	3°♁07'20	
conjunction	1262 Jan 16 j 12:19	3°♁58'33	0°-34'-47		1267 Sep 28 j 02:59	15°♁	
minimum elong	1262 Jan 16 j 12:17	3°♁58'32	0°34'47	retrograde	1267 Nov 29 j 11:53	20°♁36'06	
max. Earth dist.	1262 Jan 15 j 21:06	3°♁49'30	6.05673 AU	opposition	1268 Jan 28 j 11:26	15°♁37'52	1°06'49
morning rise	1262 Jan 29 j 09:41	7°♁02'27		min. Earth dist.	1268 Jan 28 j 06:41	15°♁39'26	4.37539 AU
	1262 Mar 05 j 09:55	15°♁			1268 Feb 02 j 06:22	15°♁	
retrograde	1262 Jun 08 j 16:37	26°♁57'01		direct	1268 Mar 29 j 19:20	10°♁34'56	
opposition	1262 Aug 08 j 01:04	21°♁58'44	-1°-16'-12		1268 May 25 j 02:22	15°♁	
min. Earth dist.	1262 Aug 08 j 01:33	21°♁58'34	4.00594 AU	evening set	1268 Aug 03 j 19:04	28°♁21'37	
direct	1262 Oct 06 j 01:28	17°♁05'06			1268 Aug 11 j 09:04	0°♁	
	1263 Jan 10 j 23:21	0°♁					
evening set	1263 Feb 08 j 04:25	6°♁34'36		conjunction	1268 Aug 17 j 01:25	1°♁14'00	0°57'44
				minimum elong	1268 Aug 17 j 01:23	1°♁13'58	0°57'44
conjunction	1263 Feb 21 j 06:23	9°♁43'53	-1°-1'-47	max. Earth dist.	1268 Aug 16 j 16:51	1°♁09'20	6.41670 AU
minimum elong	1263 Feb 21 j 06:21	9°♁43'52	1°01'48	morning rise	1268 Aug 30 j 05:12	4°♁04'57	
max. Earth dist.	1263 Feb 21 j 21:31	9°♁53'01	5.97253 AU	retrograde	1268 Dec 28 j 18:35	20°♁58'50	
morning rise	1263 Mar 06 j 11:21	12°♁54'49		opposition	1269 Feb 27 j 02:04	16°♁04'00	1°34'21
	1263 May 29 j 22:22	0°♁		min. Earth dist.	1269 Feb 27 j 16:05	15°♁59'27	4.44198 AU
retrograde	1263 Jul 16 j 18:06	3°♁29'27		direct	1269 Apr 30 j 10:28	11°♁01'03	
	1263 Sep 03 j 00:23	30°♁		evening set	1269 Sep 04 j 03:54	28°♁34'33	
opposition	1263 Sep 14 j 16:56	28°♁27'16	-1°-40'-43		1269 Sep 10 j 18:20	0°♁	
min. Earth dist.	1263 Sep 13 j 19:35	28°♁34'26	3.96114 AU	max. Earth dist.	1269 Sep 15 j 19:39	1°♁05'42	6.44804 AU
direct	1263 Nov 11 j 17:38	23°♁33'18					
	1264 Jan 15 j 09:58	0°♁		conjunction	1269 Sep 17 j 03:00	1°♁22'41	1°08'05
evening set	1264 Mar 16 j 06:25	13°♁12'59		minimum elong	1269 Sep 17 j 03:00	1°♁22'41	1°08'05
				morning rise	1269 Sep 29 j 23:05	4°♁09'27	
conjunction	1264 Mar 29 j 16:27	16°♁26'02	-1°-5'-16	retrograde	1270 Jan 28 j 01:27	20°♁56'17	
minimum elong	1264 Mar 29 j 16:28	16°♁26'03	1°05'17	opposition	1270 Mar 29 j 18:10	16°♁03'42	1°36'19
max. Earth dist.	1264 Mar 31 j 11:13	16°♁51'43	5.97058 AU	min. Earth dist.	1270 Mar 30 j 22:02	15°♁54'46	4.43738 AU
morning rise	1264 Apr 12 j 05:35	19°♁40'38		direct	1270 May 31 j 11:51	11°♁01'49	
	1264 May 28 j 05:57	0°♁		evening set	1270 Oct 04 j 19:59	28°♁38'35	

	1270 Oct 11 j 00:54	0°♍		conjunction	1276 Apr 04 j 01:31	21°♃45'42	-1°-3'-30
max. Earth dist.	1270 Oct 15 j 15:04	1°♍00'31	6.40705 AU	minimum elong	1276 Apr 04 j 01:33	21°♃45'43	1°03'31
				max. Earth dist.	1276 Apr 06 j 01:11	22°♃14'16	5.97367 AU
conjunction	1270 Oct 17 j 13:43	1°♍26'10	0°59'58	morning rise	1276 Apr 17 j 15:45	25°♃00'37	
minimum elong	1270 Oct 17 j 13:45	1°♍26'11	0°59'58		1276 May 09 j 01:48	0°♃	
morning rise	1270 Oct 30 j 05:13	4°♍12'48			1276 Aug 11 j 19:33	15°♃	
	1270 Dec 23 j 00:59	15°♍		retrograde	1276 Aug 27 j 06:34	15°♃23'36	
retrograde	1271 Feb 28 j 12:13	21°♍20'48			1276 Sep 11 j 14:32	15°♃	
opposition	1271 Apr 30 j 09:26	16°♍28'58	1°12'11	min. Earth dist.	1276 Oct 24 j 10:24	10°♃30'17	4.01345 AU
min. Earth dist.	1271 May 01 j 21:50	16°♍17'23	4.36240 AU	opposition	1276 Oct 25 j 20:38	10°♃18'37	-1°-20'-2
	1271 May 12 j 04:56	15°♍		direct	1276 Dec 22 j 20:23	5°♃21'58	
direct	1271 Jul 01 j 22:12	11°♍28'59			1277 Mar 14 j 23:31	15°♃	
	1271 Aug 20 j 16:44	15°♍		evening set	1277 Apr 28 j 00:34	24°♃42'14	
evening set	1271 Nov 04 j 16:19	29°♍25'03					
	1271 Nov 07 j 06:43	0°♃		conjunction	1277 May 11 j 17:43	27°♃54'04	0°-38'-44
max. Earth dist.	1271 Nov 15 j 06:08	1°♃47'44	6.30364 AU	minimum elong	1277 May 11 j 17:46	27°♃54'05	0°38'45
				max. Earth dist.	1277 May 13 j 23:49	28°♃25'37	6.06844 AU
conjunction	1271 Nov 17 j 07:59	2°♃15'51	0°34'52		1277 May 20 j 17:56	0°♃	
minimum elong	1271 Nov 17 j 08:01	2°♃15'52	0°34'53	morning rise	1277 May 25 j 12:48	1°♃06'34	
morning rise	1271 Nov 29 j 22:33	5°♃06'20		retrograde	1277 Oct 01 j 04:28	20°♃32'31	
retrograde	1272 Apr 01 j 18:45	23°♃01'33		min. Earth dist.	1277 Nov 28 j 10:25	15°♃38'58	4.13501 AU
opposition	1272 Jun 01 j 17:15	18°♃08'46	0°25'48	opposition	1277 Nov 29 j 18:30	15°♃28'03	0°-30'-18
min. Earth dist.	1272 Jun 03 j 01:39	17°♃58'24	4.23630 AU	direct	1278 Jan 27 j 16:13	10°♃28'20	
direct	1272 Aug 02 j 06:46	13°♃11'15		evening set	1278 Jun 03 j 06:57	29°♃12'58	
	1272 Nov 28 j 09:17	0°♃			1278 Jun 06 j 18:38	0°♃	
desc. node	1272 Nov 30 j 07:10	0°♃26'12					
evening set	1272 Dec 05 j 15:08	1°♃39'43		conjunction	1278 Jun 17 j 00:55	2°♃18'57	0°-1'00
max. Earth dist.	1272 Dec 16 j 18:54	4°♃15'02	6.16553 AU	minimum elong	1278 Jun 17 j 00:53	2°♃18'56	0°01'01
				behind sun begin	1278 Jun 16 j 16:31	2°♃14'14	
conjunction	1272 Dec 18 j 07:53	4°♃36'35	0°-1'-49	behind sun end	1278 Jun 17 j 09:15	2°♃23'38	
minimum elong	1272 Dec 18 j 07:52	4°♃36'34	0°01'50	max. Earth dist.	1278 Jun 18 j 19:13	2°♃42'51	6.20669 AU
behind sun begin	1272 Dec 17 j 23:52	4°♃31'56		asc. node	1278 Jun 27 j 02:11	4°♃35'00	
behind sun end	1272 Dec 18 j 15:53	4°♃41'12		morning rise	1278 Jun 30 j 18:25	5°♃24'27	
morning rise	1272 Dec 31 j 00:51	7°♃33'52		retrograde	1278 Nov 02 j 20:54	23°♃41'43	
retrograde	1273 May 07 j 10:45	26°♃34'20		opposition	1279 Jan 01 j 13:57	18°♃40'12	0°26'30
opposition	1273 Jul 07 j 02:35	21°♃39'09	0°-31'-58	min. Earth dist.	1278 Dec 31 j 18:36	18°♃46'41	4.27597 AU
min. Earth dist.	1273 Jul 07 j 21:48	21°♃32'56	4.09574 AU	direct	1279 Mar 02 j 19:23	13°♃38'14	
direct	1273 Sep 05 j 07:40	16°♃44'08			1279 Jun 29 j 11:42	0°♃	
	1273 Dec 14 j 04:19	0°♃		evening set	1279 Jul 07 j 17:06	1°♃47'06	
evening set	1274 Jan 08 j 10:22	5°♃50'11					
				conjunction	1279 Jul 21 j 06:01	4°♃45'19	0°35'28
conjunction	1274 Jan 21 j 06:55	8°♃54'16	0°-39'-26	minimum elong	1279 Jul 21 j 05:58	4°♃45'18	0°35'29
minimum elong	1274 Jan 21 j 06:52	8°♃54'14	0°39'27	max. Earth dist.	1279 Jul 21 j 21:47	4°♃53'59	6.33932 AU
max. Earth dist.	1274 Jan 20 j 18:01	8°♃46'33	6.03521 AU	morning rise	1279 Aug 03 j 17:07	7°♃42'24	
morning rise	1274 Feb 03 j 05:27	11°♃59'35			1279 Sep 07 j 14:05	15°♃	
	1274 Feb 16 j 00:11	15°♃		retrograde	1279 Dec 03 j 19:21	25°♃04'03	
	1274 May 08 j 08:24	0°♃		opposition	1280 Feb 01 j 19:57	20°♃06'19	1°12'07
retrograde	1274 Jun 13 j 22:24	2°♃04'21		min. Earth dist.	1280 Feb 01 j 18:13	20°♃06'53	4.39053 AU
	1274 Jul 20 j 15:38	30°♃		direct	1280 Apr 03 j 08:01	15°♃03'17	
opposition	1274 Aug 13 j 05:49	27°♃05'31	-1°-21'-39		1280 Jul 26 j 05:20	0°♃	
min. Earth dist.	1274 Aug 13 j 02:14	27°♃06'42	3.98852 AU	evening set	1280 Aug 08 j 06:35	2°♃46'35	
direct	1274 Oct 11 j 00:25	22°♃11'57					
	1274 Dec 22 j 07:41	0°♃		conjunction	1280 Aug 21 j 11:59	5°♃38'07	1°00'16
evening set	1275 Feb 13 j 07:03	11°♃46'54		minimum elong	1280 Aug 21 j 11:57	5°♃38'06	1°00'15
				max. Earth dist.	1280 Aug 21 j 00:57	5°♃32'08	6.42704 AU
conjunction	1275 Feb 26 j 10:14	14°♃57'16	-1°-3'-47	morning rise	1280 Sep 03 j 14:23	8°♃28'10	
minimum elong	1275 Feb 26 j 10:13	14°♃57'15	1°03'48	retrograde	1281 Jan 01 j 23:26	25°♃18'58	
max. Earth dist.	1275 Feb 27 j 06:30	15°♃09'31	5.96087 AU	opposition	1281 Mar 03 j 08:51	20°♃24'35	1°36'12
morning rise	1275 Mar 11 j 16:24	18°♃09'17		min. Earth dist.	1281 Mar 04 j 00:41	20°♃19'28	4.44706 AU
	1275 May 03 j 20:23	0°♃		direct	1281 May 04 j 18:51	15°♃21'48	
retrograde	1275 Jul 22 j 03:52	8°♃48'24			1281 Aug 25 j 19:21	0°♃	
min. Earth dist.	1275 Sep 19 j 00:39	3°♃53'33	3.95665 AU	evening set	1281 Sep 08 j 11:46	2°♃54'28	
opposition	1275 Sep 20 j 00:03	3°♃45'40	-1°-40'-55	max. Earth dist.	1281 Sep 19 j 22:22	5°♃23'00	6.44736 AU
	1275 Oct 21 j 23:40	30°♃					
direct	1275 Nov 16 j 23:27	28°♃51'27		conjunction	1281 Sep 21 j 09:47	5°♃42'14	1°08'02
	1275 Dec 12 j 21:09	0°♃		minimum elong	1281 Sep 21 j 09:47	5°♃42'14	1°08'03
evening set	1276 Mar 21 j 14:11	18°♃32'12		morning rise	1281 Oct 04 j 05:09	8°♃28'44	

retrograde	1282 Feb 01 j 10:20	25°♁16'45		opposition	1287 Sep 25 j 07:25	9°♃06'38	-1°-40'-18
opposition	1282 Apr 03 j 02:44	20°♁24'26	1°34'26	direct	1287 Nov 22 j 04:57	4°♃12'13	
min. Earth dist.	1282 Apr 04 j 09:24	20°♁14'37	4.43103 AU	evening set	1288 Mar 26 j 21:44	23°♃50'33	
direct	1282 Jun 04 j 21:29	15°♁22'45					
	1282 Sep 25 j 02:36	0°♃		conjunction	1288 Apr 09 j 09:53	27°♃03'54	-1°-1'-18
evening set	1282 Oct 09 j 02:58	3°♃01'25		minimum elong	1288 Apr 09 j 09:55	27°♃03'55	1°01'17
max. Earth dist.	1282 Oct 19 j 20:17	5°♃22'47	6.39546 AU	max. Earth dist.	1288 Apr 11 j 10:46	27°♃33'06	5.98522 AU
					1288 Apr 21 j 17:35	0°♃	
conjunction	1282 Oct 21 j 20:22	5°♃49'18	0°57'22	morning rise	1288 Apr 23 j 01:07	0°♃18'40	
minimum elong	1282 Oct 21 j 20:24	5°♃49'19	0°57'21		1288 Jul 01 j 23:40	15°♃	
morning rise	1282 Nov 03 j 11:29	8°♃36'17		retrograde	1288 Sep 01 j 06:24	20°♃34'15	
	1282 Dec 03 j 15:15	15°♃		min. Earth dist.	1288 Oct 29 j 10:23	15°♃41'02	4.03037 AU
retrograde	1283 Mar 05 j 00:34	25°♃49'40		opposition	1288 Oct 30 j 21:22	15°♃29'06	-1°-14'-16
opposition	1283 May 04 j 22:47	20°♃57'50	1°06'48		1288 Nov 03 j 10:51	15°♃	
min. Earth dist.	1283 May 06 j 10:37	20°♃46'25	4.34627 AU	direct	1288 Dec 27 j 23:59	10°♃31'57	
direct	1283 Jul 06 j 07:49	15°♃58'12			1289 Feb 19 j 12:34	15°♃	
	1283 Oct 22 j 01:19	0°♃		evening set	1289 May 03 j 04:33	29°♃46'33	
evening set	1283 Nov 09 j 02:02	3°♃58'36			1289 May 04 j 03:51	0°♃	
max. Earth dist.	1283 Nov 19 j 17:08	6°♃22'39	6.28430 AU	conjunction	1289 May 16 j 22:15	2°♃57'38	0°-33'-52
				minimum elong	1289 May 16 j 22:17	2°♃57'39	0°33'53
conjunction	1283 Nov 21 j 17:40	6°♃50'10	0°30'12	max. Earth dist.	1289 May 19 j 04:32	3°♃29'08	6.08926 AU
minimum elong	1283 Nov 21 j 17:42	6°♃50'11	0°30'12	morning rise	1289 May 30 j 17:15	6°♃09'09	
morning rise	1283 Dec 04 j 08:22	9°♃41'31		retrograde	1289 Oct 05 j 21:32	25°♃24'20	
retrograde	1284 Apr 06 j 17:22	27°♃45'40		min. Earth dist.	1289 Dec 03 j 04:54	20°♃30'24	4.15729 AU
opposition	1284 Jun 06 j 13:56	22°♃42'25	0°17'58	opposition	1289 Dec 04 j 11:02	20°♃20'10	0°-22'-17
min. Earth dist.	1284 Jun 07 j 22:05	22°♃42'25	4.21486 AU	direct	1290 Feb 01 j 13:29	15°♃20'03	
direct	1284 Aug 06 j 23:49	17°♃55'37		asc. node	1290 May 07 j 06:04	27°♃04'03	
desc. node	1284 Oct 09 j 12:35	23°♃42'03			1290 May 21 j 03:15	0°♃	
	1284 Nov 11 j 06:50	0°♃		evening set	1290 Jun 08 j 04:20	3°♃58'24	
evening set	1284 Dec 10 j 06:49	6°♃29'59					
conjunction	1284 Dec 22 j 23:56	9°♃27'55	0°-7'-24	conjunction	1290 Jun 21 j 21:43	7°♃03'12	0°04'31
minimum elong	1284 Dec 22 j 23:55	9°♃27'55	0°07'25	minimum elong	1290 Jun 21 j 21:44	7°♃03'13	0°04'31
behind sun begin	1284 Dec 22 j 16:35	9°♃23'38		behind sun begin	1290 Jun 21 j 13:33	6°♃58'38	
behind sun end	1284 Dec 23 j 07:15	9°♃32'11		behind sun end	1290 Jun 22 j 05:54	7°♃07'47	
max. Earth dist.	1284 Dec 21 j 12:43	9°♃07'19	6.14398 AU	max. Earth dist.	1290 Jun 23 j 12:08	7°♃24'47	6.22845 AU
morning rise	1285 Jan 04 j 17:38	12°♃26'26		morning rise	1290 Jul 05 j 14:42	10°♃07'30	
	1285 Apr 10 j 04:27	0°♃		retrograde	1290 Nov 07 j 04:39	28°♃15'17	
retrograde	1285 May 12 j 14:41	1°♃37'13		opposition	1291 Jan 05 j 23:34	23°♃14'14	0°33'48
	1285 Jun 14 j 04:43	30°♃		min. Earth dist.	1291 Jan 05 j 06:25	23°♃19'59	4.29544 AU
opposition	1285 Jul 12 j 06:26	26°♃41'37	0°-40'-3	direct	1291 Mar 07 j 08:55	18°♃11'59	
min. Earth dist.	1285 Jul 12 j 21:44	26°♃36'39	4.07615 AU		1291 Jun 12 j 14:17	0°♃	
direct	1285 Sep 10 j 05:18	21°♃46'58		evening set	1291 Jul 12 j 07:32	6°♃16'16	
	1285 Nov 24 j 18:14	0°♃					
evening set	1286 Jan 13 j 09:44	10°♃58'36		conjunction	1291 Jul 25 j 19:33	9°♃13'26	0°39'46
				minimum elong	1291 Jul 25 j 19:30	9°♃13'25	0°39'46
conjunction	1286 Jan 26 j 07:06	14°♃03'43	0°-44'-2	max. Earth dist.	1291 Jul 26 j 07:31	9°♃20'00	6.35508 AU
minimum elong	1286 Jan 26 j 07:04	14°♃03'42	0°44'03	morning rise	1291 Aug 08 j 05:22	12°♃09'22	
max. Earth dist.	1286 Jan 25 j 23:34	13°♃59'12	6.01960 AU		1291 Aug 21 j 10:45	15°♃	
	1286 Jan 30 j 04:54	15°♃		retrograde	1291 Dec 08 j 00:43	29°♃25'12	
morning rise	1286 Feb 08 j 06:33	17°♃10'09		opposition	1292 Feb 06 j 01:50	24°♃28'00	1°16'53
	1286 Apr 08 j 06:35	0°♃		min. Earth dist.	1292 Feb 06 j 03:07	24°♃27'35	4.40164 AU
retrograde	1286 Jun 19 j 09:31	7°♃22'31		direct	1292 Apr 07 j 17:49	19°♃24'57	
opposition	1286 Aug 18 j 14:26	2°♃23'06	-1°-26'-40		1292 Jul 09 j 05:40	0°♃	
min. Earth dist.	1286 Aug 18 j 08:04	2°♃25'13	3.97878 AU	evening set	1292 Aug 12 j 16:02	7°♃06'12	
	1286 Sep 06 j 10:23	30°♃					
direct	1286 Oct 16 j 06:24	27°♃29'37		conjunction	1292 Aug 25 j 20:16	9°♃57'03	1°02'25
	1286 Nov 24 j 09:37	0°♃		minimum elong	1292 Aug 25 j 20:15	9°♃57'02	1°02'25
evening set	1287 Feb 18 j 12:34	17°♃06'50		max. Earth dist.	1292 Aug 25 j 03:56	9°♃48'12	6.43253 AU
				morning rise	1292 Sep 07 j 21:46	12°♃46'30	
conjunction	1287 Mar 03 j 16:55	20°♃17'50	-1°-5'-23	retrograde	1293 Jan 06 j 04:50	29°♃35'50	
minimum elong	1287 Mar 03 j 16:54	20°♃17'50	1°05'23	opposition	1293 Mar 07 j 14:38	24°♃41'48	1°37'31
max. Earth dist.	1287 Mar 04 j 18:47	20°♃33'29	5.95802 AU	min. Earth dist.	1293 Mar 08 j 09:20	24°♃35'45	4.44697 AU
morning rise	1287 Mar 17 j 00:14	23°♃30'30		direct	1293 May 09 j 02:26	19°♃39'03	
	1287 Apr 13 j 19:45	0°♃			1293 Aug 08 j 20:02	0°♃	
retrograde	1287 Jul 27 j 12:05	14°♃09'51		evening set	1293 Sep 12 j 18:36	7°♃12'26	
min. Earth dist.	1287 Sep 24 j 05:14	9°♃15'29	3.96140 AU	max. Earth dist.	1293 Sep 24 j 03:14	9°♃40'08	6.44167 AU

conjunction	1293 Sep 25 j 16:02	10°♁00'09	1°07'38	max. Earth dist.	1299 Mar 10 j 02:53	25°♃50'49	5.95885 AU
minimum elong	1293 Sep 25 j 16:02	10°♁00'09	1°07'37	morning rise	1299 Mar 22 j 06:46	28°♃46'37	
morning rise	1293 Oct 08 j 10:31	12°♁46'34			1299 Mar 27 j 09:38	0°♃	
retrograde	1294 Feb 05 j 17:58	29°♁37'22		retrograde	1299 Aug 01 j 16:14	19°♃24'43	
opposition	1294 Apr 07 j 11:45	24°♁45'13	1°32'03	min. Earth dist.	1299 Sep 29 j 07:36	14°♃30'41	3.96829 AU
min. Earth dist.	1294 Apr 08 j 18:59	24°♁35'14	4.42029 AU	opposition	1299 Sep 30 j 11:53	14°♃21'06	-1°-38'-53
direct	1294 Jun 09 j 04:53	19°♁43'50		direct	1299 Nov 27 j 09:08	9°♃26'22	
	1294 Sep 07 j 23:29	0°♁		evening set	1300 Apr 01 j 02:51	29°♃02'01	
evening set	1294 Oct 13 j 10:35	7°♁25'34			1300 Apr 05 j 04:41	0°♃	
max. Earth dist.	1294 Oct 24 j 01:58	9°♁46'27	6.38046 AU				
conjunction	1294 Oct 26 j 03:27	10°♁13'51	0°54'25	conjunction	1300 Apr 14 j 16:07	2°♃15'17	0°-58'-39
minimum elong	1294 Oct 26 j 03:29	10°♁13'52	0°54'25	minimum elong	1300 Apr 14 j 16:09	2°♃15'18	0°58'39
morning rise	1294 Nov 07 j 18:28	13°♁01'22		max. Earth dist.	1300 Apr 16 j 19:52	2°♃46'04	5.99753 AU
	1294 Nov 16 j 19:22	15°♁		morning rise	1300 Apr 28 j 07:59	5°♃29'48	
	1295 Feb 22 j 14:03	0°♁			1300 Jun 09 j 19:25	15°♃	
retrograde	1295 Mar 09 j 17:03	0°♁21'16		retrograde	1300 Sep 06 j 06:24	25°♃38'05	
	1295 Mar 24 j 18:18	30°♁		min. Earth dist.	1300 Nov 03 j 09:29	20°♃44'36	4.04660 AU
opposition	1295 May 09 j 13:54	25°♁29'23	1°00'59	opposition	1300 Nov 04 j 19:36	20°♃32'58	-1°-8'-5
min. Earth dist.	1295 May 11 j 02:25	25°♁17'45	4.32789 AU	direct	1301 Jan 02 j 01:19	15°♃35'26	
direct	1295 Jul 10 j 21:05	20°♁30'05			1301 Apr 17 j 05:36	0°♁	
	1295 Oct 04 j 06:22	0°♁		evening set	1301 May 08 j 06:23	4°♁45'06	
evening set	1295 Nov 13 j 13:13	8°♁35'20		conjunction	1301 May 22 j 00:18	7°♁55'28	0°-28'-51
max. Earth dist.	1295 Nov 24 j 05:50	11°♁00'54	6.26418 AU	minimum elong	1301 May 22 j 00:20	7°♁55'29	0°28'51
				max. Earth dist.	1301 May 24 j 04:59	8°♁25'54	6.10790 AU
conjunction	1295 Nov 26 j 05:01	11°♁27'46	0°25'18	morning rise	1301 Jun 04 j 19:29	11°♁06'11	
minimum elong	1295 Nov 26 j 05:02	11°♁27'46	0°25'17		1301 Sep 29 j 12:12	0°♁	
morning rise	1295 Dec 08 j 19:56	14°♁20'03		retrograde	1301 Oct 10 j 10:49	0°♁11'54	
	1296 Mar 01 j 08:44	0°♁			1301 Oct 21 j 08:35	30°♁	
retrograde	1296 Apr 11 j 15:02	2°♁33'12		min. Earth dist.	1301 Dec 07 j 20:31	25°♁18'01	4.17651 AU
	1296 May 23 j 11:17	30°♁		opposition	1301 Dec 09 j 01:48	25°♁08'05	0°-14'-15
opposition	1296 Jun 11 j 12:08	27°♁39'56	0°09'53	direct	1302 Feb 06 j 07:17	20°♁07'38	
min. Earth dist.	1296 Jun 12 j 17:19	27°♁30'35	4.19454 AU	asc. node	1302 Mar 17 j 12:06	22°♁30'42	
direct	1296 Aug 11 j 16:12	22°♁43'16			1302 May 03 j 01:39	0°♁	
desc. node	1296 Aug 18 j 15:45	22°♁47'51		evening set	1302 Jun 13 j 00:33	8°♁41'10	
	1296 Oct 22 j 15:55	0°♁					
evening set	1296 Dec 14 j 23:54	11°♁22'56		conjunction	1302 Jun 26 j 17:28	11°♁44'58	0°09'51
max. Earth dist.	1296 Dec 26 j 10:12	14°♁03'31	6.12523 AU	minimum elong	1302 Jun 26 j 17:27	11°♁44'58	0°09'51
				behind sun begin	1302 Jun 26 j 10:45	11°♁41'14	
conjunction	1296 Dec 27 j 17:23	14°♁21'50	0°-12'-58	behind sun end	1302 Jun 27 j 00:10	11°♁48'42	
minimum elong	1296 Dec 27 j 17:22	14°♁21'50	0°12'58	max. Earth dist.	1302 Jun 28 j 03:58	12°♁04'18	6.24683 AU
behind sun begin	1296 Dec 27 j 12:22	14°♁18'54		morning rise	1302 Jul 10 j 09:38	14°♁48'08	
behind sun end	1296 Dec 27 j 22:22	14°♁24'45			1302 Sep 29 j 20:16	0°♁	
morning rise	1297 Jan 09 j 11:43	17°♁21'25		retrograde	1302 Nov 11 j 14:22	2°♁47'59	
	1297 Mar 10 j 03:33	0°♁			1302 Dec 24 j 05:42	30°♁	
retrograde	1297 May 17 j 21:18	6°♁41'22		opposition	1303 Jan 10 j 08:52	27°♁47'30	0°40'52
opposition	1297 Jul 17 j 11:15	1°♁45'15	0°-47'-53	min. Earth dist.	1303 Jan 09 j 19:02	27°♁52'07	4.31142 AU
min. Earth dist.	1297 Jul 18 j 00:03	1°♁41'05	4.06053 AU	direct	1303 Mar 11 j 23:22	22°♁45'05	
	1297 Jul 31 j 05:58	30°♁			1303 May 24 j 06:51	0°♁	
direct	1297 Sep 15 j 06:37	26°♁50'51		evening set	1303 Jul 16 j 21:52	10°♁45'59	
	1297 Oct 30 j 02:05	0°♁					
	1298 Jan 13 j 17:35	15°♁		conjunction	1303 Jul 30 j 08:56	13°♁42'15	0°43'50
evening set	1298 Jan 18 j 09:09	16°♁06'21		minimum elong	1303 Jul 30 j 08:54	13°♁42'14	0°43'49
				max. Earth dist.	1303 Jul 30 j 16:47	13°♁46'33	6.36739 AU
conjunction	1298 Jan 31 j 07:22	19°♁12'20	0°-48'-18		1303 Aug 05 j 07:11	15°♁	
minimum elong	1298 Jan 31 j 07:19	19°♁12'19	0°48'19	morning rise	1303 Aug 12 j 17:42	16°♁37'14	
max. Earth dist.	1298 Jan 31 j 04:53	19°♁10'51	6.00847 AU		1303 Oct 22 j 13:43	0°♁	
morning rise	1298 Feb 13 j 07:45	22°♁19'41		retrograde	1303 Dec 12 j 05:31	3°♁48'32	
	1298 Mar 18 j 15:59	0°♁			1304 Feb 01 j 14:50	30°♁	
retrograde	1298 Jun 24 j 18:07	12°♁37'27		opposition	1304 Feb 10 j 08:31	28°♁51'49	1°21'15
opposition	1298 Aug 23 j 21:40	7°♁37'31	-1°-30'-55	min. Earth dist.	1304 Feb 10 j 11:54	28°♁50'42	4.40973 AU
min. Earth dist.	1298 Aug 23 j 11:50	7°♁40'47	3.97358 AU	direct	1304 Apr 12 j 02:55	23°♁48'45	
direct	1298 Oct 21 j 09:21	2°♁44'04			1304 Jun 19 j 05:58	0°♁	
evening set	1299 Feb 23 j 17:01	22°♁22'06		evening set	1304 Aug 17 j 01:55	11°♁28'46	
				max. Earth dist.	1304 Aug 29 j 10:18	14°♁08'52	6.43583 AU
conjunction	1299 Mar 08 j 22:15	25°♁33'30	-1°-6'-25	conjunction	1304 Aug 30 j 05:11	14°♁19'06	1°04'14
minimum elong	1299 Mar 08 j 22:14	25°♁33'30	1°06'27				

minimum elong	1304 Aug 30 j 05:10	14°♎19'05	1°04'14	morning rise	1310 Feb 18 j 06:52	27°♊23'05	
morning rise	1304 Sep 12 j 05:31	17°♎07'59			1310 Mar 01 j 07:49	0°♋	
	1304 Nov 19 j 13:29	0°♏		retrograde	1310 Jun 29 j 21:30	17°♋44'28	
retrograde	1305 Jan 10 j 11:17	3°♏56'37		opposition	1310 Aug 29 j 01:12	12°♋43'55	-1°-34'-17
	1305 Mar 04 j 11:55	30°♑		min. Earth dist.	1310 Aug 28 j 12:27	12°♋48'10	3.97152 AU
opposition	1305 Mar 11 j 21:57	29°♑02'59	1°38'21	direct	1310 Oct 26 j 10:27	7°♋50'20	
min. Earth dist.	1305 Mar 12 j 18:43	28°♑56'17	4.44548 AU	evening set	1311 Feb 28 j 17:51	27°♋28'11	
direct	1305 May 13 j 11:25	24°♑00'28			1311 Mar 11 j 06:05	0°♌	
	1305 Jul 19 j 17:22	0°♒					
evening set	1305 Sep 17 j 02:41	11°♒34'43		conjunction	1311 Mar 14 j 00:17	0°♌39'57	-1°-6'-54
max. Earth dist.	1305 Sep 28 j 07:01	14°♒00'27	6.43546 AU	minimum elong	1311 Mar 14 j 00:17	0°♌39'57	1°06'55
				max. Earth dist.	1311 Mar 15 j 09:30	0°♌59'59	5.96179 AU
conjunction	1305 Sep 29 j 23:13	14°♒22'21	1°06'51	morning rise	1311 Mar 27 j 09:40	3°♌53'20	
minimum elong	1305 Sep 29 j 23:14	14°♒22'22	1°06'50	retrograde	1311 Aug 06 j 18:33	24°♌29'16	
morning rise	1305 Oct 12 j 17:11	17°♒08'47		min. Earth dist.	1311 Oct 04 j 07:34	19°♌35'03	3.97596 AU
	1305 Dec 19 j 10:51	0°♓		opposition	1311 Oct 05 j 12:13	19°♌25'21	-1°-36'-44
retrograde	1306 Feb 10 j 04:57	4°♓02'32		direct	1311 Dec 02 j 10:10	14°♌30'17	
	1306 Apr 05 j 10:40	30°♒			1312 Mar 19 j 18:29	0°♍	
opposition	1306 Apr 11 j 22:31	29°♒10'31	1°29'08	evening set	1312 Apr 06 j 04:17	4°♍03'10	
min. Earth dist.	1306 Apr 13 j 07:00	29°♒00'08	4.41000 AU				
direct	1306 Jun 13 j 15:27	24°♒09'24		conjunction	1312 Apr 19 j 18:18	7°♍16'17	0°-55'-39
	1306 Aug 18 j 14:19	0°♓		minimum elong	1312 Apr 19 j 18:21	7°♍16'18	0°55'40
evening set	1306 Oct 17 j 19:10	11°♓53'47		max. Earth dist.	1312 Apr 21 j 22:07	7°♍47'00	6.00904 AU
max. Earth dist.	1306 Oct 28 j 11:34	14°♓15'40	6.36715 AU	morning rise	1312 May 03 j 11:04	10°♍30'36	
					1312 May 22 j 21:34	15°♍	
conjunction	1306 Oct 30 j 11:52	14°♓42'30	0°51'09		1312 Aug 23 j 23:52	0°♎	
minimum elong	1306 Oct 30 j 11:54	14°♓42'31	0°51'10	retrograde	1312 Sep 10 j 23:46	0°♎31'59	
	1306 Oct 31 j 19:21	15°♓			1312 Sep 28 j 20:59	30°♎	
morning rise	1306 Nov 12 j 02:30	17°♓30'27		min. Earth dist.	1312 Nov 08 j 03:09	25°♎38'42	4.06079 AU
	1307 Jan 14 j 14:31	0°♏		opposition	1312 Nov 09 j 13:40	25°♎26'56	-1°-1'-40
retrograde	1307 Mar 14 j 07:41	4°♏56'12		direct	1313 Jan 06 j 20:43	20°♎28'59	
opposition	1307 May 14 j 06:03	0°♏04'13	0°54'46		1313 Mar 30 j 02:34	0°♏	
	1307 May 14 j 19:19	30°♑		evening set	1313 May 13 j 05:06	9°♏34'50	
min. Earth dist.	1307 May 15 j 17:14	29°♑53'01	4.31250 AU				
direct	1307 Jul 15 j 09:43	25°♑05'22		conjunction	1313 May 26 j 23:15	12°♏44'36	0°-23'-49
	1307 Sep 12 j 12:56	0°♏		minimum elong	1313 May 26 j 23:17	12°♏44'37	0°23'50
evening set	1307 Nov 18 j 00:49	13°♏14'08		max. Earth dist.	1313 May 29 j 01:17	13°♏13'24	6.12370 AU
max. Earth dist.	1307 Nov 28 j 18:57	15°♏41'10	6.24806 AU	morning rise	1313 Jun 09 j 18:25	15°♏54'35	
					1313 Aug 18 j 18:34	0°♐	
conjunction	1307 Nov 30 j 16:29	16°♏07'12	0°20'15	retrograde	1313 Oct 14 j 23:57	4°♐52'11	
minimum elong	1307 Nov 30 j 16:30	16°♏07'12	0°20'15	min. Earth dist.	1313 Dec 12 j 11:29	29°♏57'46	4.19230 AU
morning rise	1307 Dec 13 j 07:44	19°♏00'16			1313 Dec 12 j 04:55	30°♏	
	1308 Feb 03 j 17:43	0°♐		opposition	1313 Dec 13 j 14:03	29°♏48'46	0°-6'-25
retrograde	1308 Apr 16 j 14:07	7°♐21'04		asc. node	1314 Jan 27 j 01:10	25°♏10'09	
opposition	1308 Jun 16 j 10:29	2°♐27'27	0°01'48	direct	1314 Feb 11 j 00:09	24°♏48'00	
min. Earth dist.	1308 Jun 17 j 14:06	2°♐18'35	4.17867 AU		1314 Apr 11 j 17:45	0°♐	
desc. node	1308 Jun 28 j 19:57	0°♐53'35		evening set	1314 Jun 17 j 18:30	13°♐17'58	
	1308 Jul 06 j 11:42	30°♑					
direct	1308 Aug 16 j 11:55	27°♑31'06		conjunction	1314 Jul 01 j 11:02	16°♐20'58	0°14'59
	1308 Sep 25 j 19:39	0°♐		minimum elong	1314 Jul 01 j 11:01	16°♐20'57	0°15'00
evening set	1308 Dec 19 j 16:05	16°♐14'19		behind sun begin	1314 Jul 01 j 08:24	16°♐19'30	
max. Earth dist.	1308 Dec 31 j 06:57	18°♐58'02	6.11115 AU	behind sun end	1314 Jul 01 j 13:39	16°♐22'25	
				max. Earth dist.	1314 Jul 02 j 19:10	16°♐38'54	6.26151 AU
conjunction	1309 Jan 01 j 10:04	19°♐13'59	0°-18'-20	morning rise	1314 Jul 15 j 02:26	19°♐23'11	
minimum elong	1309 Jan 01 j 10:03	19°♐13'58	0°18'21		1314 Sep 04 j 21:55	0°♑	
morning rise	1309 Jan 14 j 04:55	22°♐14'25		retrograde	1314 Nov 15 j 20:38	7°♑16'29	
	1309 Feb 17 j 16:31	0°♑		opposition	1315 Jan 14 j 16:54	2°♑16'31	0°47'31
retrograde	1309 May 23 j 00:20	11°♑41'27		min. Earth dist.	1315 Jan 14 j 04:19	2°♑20'43	4.32408 AU
opposition	1309 Jul 22 j 13:51	6°♑44'52	0°-55'-10		1315 Feb 01 j 10:59	30°♑	
min. Earth dist.	1309 Jul 22 j 23:24	6°♑41'45	4.04965 AU	direct	1315 Mar 16 j 10:10	27°♑13'59	
direct	1309 Sep 20 j 04:30	1°♑50'42			1315 Apr 28 j 21:04	0°♑	
	1309 Dec 27 j 20:31	15°♑			1315 Jul 20 j 12:02	15°♑	
evening set	1310 Jan 23 j 06:42	21°♑08'28		evening set	1315 Jul 21 j 11:06	15°♑12'30	
conjunction	1310 Feb 05 j 05:29	24°♑15'02	0°-52'-3	conjunction	1315 Aug 03 j 21:06	18°♑07'57	0°47'33
minimum elong	1310 Feb 05 j 05:27	24°♑15'00	0°52'04	minimum elong	1315 Aug 03 j 21:04	18°♑07'56	0°47'33
max. Earth dist.	1310 Feb 05 j 06:13	24°♑15'28	6.00158 AU	max. Earth dist.	1315 Aug 04 j 00:53	18°♑10'01	6.37717 AU

morning rise	1315 Aug 17 j 04:47	21°♃02'05		morning rise	1321 Jan 18 j 22:06	27°♁07'02	
	1315 Sep 30 j 03:30	0°♃			1321 Jan 31 j 07:25	0°♁	
retrograde	1315 Dec 16 j 11:59	8°♃09'41			1321 Apr 24 j 20:35	15°♁	
opposition	1316 Feb 14 j 14:57	3°♃13'28	1°25'04	retrograde	1321 May 28 j 04:32	16°♁42'57	
min. Earth dist.	1316 Feb 14 j 21:15	3°♃11'24	4.41620 AU		1321 Jun 30 j 14:23	15°♁	
	1316 Mar 12 j 11:25	30°♃		opposition	1321 Jul 27 j 16:47	11°♁45'49	-1°-2'-10
direct	1316 Apr 16 j 13:23	28°♃10'26		min. Earth dist.	1321 Jul 27 j 23:20	11°♁43'40	4.03463 AU
	1316 May 21 j 23:51	0°♃		direct	1321 Sep 25 j 02:41	6°♁51'47	
evening set	1316 Aug 21 j 11:16	15°♃49'26			1321 Dec 08 j 16:04	15°♁	
				evening set	1322 Jan 28 j 05:10	26°♁13'45	
conjunction	1316 Sep 03 j 13:34	18°♃39'16	1°05'39	conjunction	1322 Feb 10 j 05:03	29°♁21'15	0°-55'-30
minimum elong	1316 Sep 03 j 13:32	18°♃39'15	1°05'40	minimum elong	1322 Feb 10 j 05:01	29°♁21'14	0°55'31
max. Earth dist.	1316 Sep 02 j 15:33	18°♃27'21	6.43836 AU	max. Earth dist.	1322 Feb 10 j 11:21	29°♁25'03	5.99035 AU
morning rise	1316 Sep 16 j 12:54	21°♃27'39			1322 Feb 12 j 21:19	0°♃	
	1316 Oct 28 j 12:57	0°♃		morning rise	1322 Feb 23 j 07:20	2°♃30'15	
retrograde	1317 Jan 14 j 16:50	8°♃15'43		retrograde	1322 Jul 05 j 05:27	22°♃57'02	
opposition	1317 Mar 16 j 05:00	3°♃22'19	1°38'35	opposition	1322 Sep 03 j 06:38	17°♃55'59	-1°-37'-3
min. Earth dist.	1317 Mar 17 j 02:54	3°♃15'16	4.44416 AU	min. Earth dist.	1322 Sep 02 j 16:03	18°♃00'52	3.96549 AU
	1317 Apr 14 j 00:20	30°♃		direct	1322 Oct 31 j 13:14	13°♃02'22	
direct	1317 May 17 j 19:17	28°♃19'56			1323 Feb 22 j 13:51	0°♃	
	1317 Jun 20 j 20:35	0°♃		evening set	1323 Mar 05 j 21:56	2°♃41'46	
evening set	1317 Sep 21 j 09:45	15°♃54'42					
max. Earth dist.	1317 Oct 02 j 13:08	18°♃20'08	6.43022 AU	conjunction	1323 Mar 19 j 05:22	5°♃54'03	-1°-6'-53
				minimum elong	1323 Mar 19 j 05:22	5°♃54'03	1°06'53
conjunction	1317 Oct 04 j 05:39	18°♃42'16	1°05'40	max. Earth dist.	1323 Mar 20 j 17:03	6°♃15'33	5.96129 AU
minimum elong	1317 Oct 04 j 05:40	18°♃42'16	1°05'40	morning rise	1323 Apr 01 j 16:07	9°♃08'01	
morning rise	1317 Oct 16 j 22:50	21°♃28'38		retrograde	1323 Aug 11 j 22:11	29°♃42'45	
	1317 Nov 27 j 11:59	0°♃		min. Earth dist.	1323 Oct 09 j 08:12	24°♃49'04	3.98127 AU
retrograde	1318 Feb 14 j 13:41	8°♃24'59		opposition	1323 Oct 10 j 15:15	24°♃38'32	-1°-33'-49
opposition	1318 Apr 16 j 08:40	3°♃33'04	1°25'41	direct	1323 Dec 07 j 12:06	19°♃43'08	
min. Earth dist.	1318 Apr 17 j 18:01	3°♃22'26	4.40089 AU		1324 Mar 01 j 05:40	0°♃	
	1318 May 17 j 10:01	30°♃		evening set	1324 Apr 11 j 09:43	9°♃14'17	
direct	1318 Jun 18 j 01:07	28°♃32'16					
	1318 Jul 19 j 17:19	0°♃		conjunction	1324 Apr 25 j 00:42	12°♃27'21	0°-52'-9
	1318 Oct 16 j 03:11	15°♃		minimum elong	1324 Apr 25 j 00:45	12°♃27'22	0°52'10
evening set	1318 Oct 22 j 02:27	16°♃18'43		max. Earth dist.	1324 Apr 27 j 05:19	12°♃58'27	6.01970 AU
max. Earth dist.	1318 Nov 01 j 16:53	18°♃40'02	6.35452 AU		1324 May 05 j 19:27	15°♃	
				morning rise	1324 May 08 j 18:10	15°♃41'28	
conjunction	1318 Nov 03 j 18:39	19°♃07'46	0°47'36		1324 Jul 16 j 09:35	0°♃	
minimum elong	1318 Nov 03 j 18:41	19°♃07'47	0°47'36	retrograde	1324 Sep 15 j 22:13	5°♃36'01	
morning rise	1318 Nov 16 j 09:18	21°♃56'12		min. Earth dist.	1324 Nov 13 j 01:53	0°♃42'28	4.07550 AU
	1318 Dec 24 j 13:45	0°♃		opposition	1324 Nov 14 j 11:26	0°♃31'01	0°-54'-35
retrograde	1319 Mar 18 j 22:53	9°♃27'52		direct	1324 Nov 18 j 06:31	30°♃	
opposition	1319 May 18 j 21:13	4°♃35'43	0°48'13		1325 Jan 11 j 21:54	25°♃32'41	
min. Earth dist.	1319 May 20 j 08:11	4°♃24'34	4.29680 AU	evening set	1325 Mar 06 j 17:40	0°♃	
	1319 Jul 04 j 04:22	30°♃			1325 May 18 j 07:27	14°♃34'18	
direct	1319 Jul 19 j 22:44	29°♃37'09					
	1319 Aug 04 j 17:00	0°♃		conjunction	1325 Jun 01 j 01:53	17°♃43'22	0°-18'-26
evening set	1319 Nov 22 j 11:02	17°♃49'46		minimum elong	1325 Jun 01 j 01:54	17°♃43'23	0°18'27
max. Earth dist.	1319 Dec 03 j 07:58	20°♃18'57	6.23055 AU	max. Earth dist.	1325 Jun 03 j 04:06	18°♃12'08	6.14155 AU
				morning rise	1325 Jun 14 j 20:50	20°♃52'27	
conjunction	1319 Dec 05 j 02:59	20°♃43'38	0°15'06		1325 Jul 27 j 07:01	0°♃	
minimum elong	1319 Dec 05 j 03:00	20°♃43'38	0°15'07	retrograde	1325 Oct 19 j 13:49	9°♃40'48	
behind sun begin	1319 Dec 04 j 23:56	20°♃41'54		asc. node	1325 Dec 06 j 15:45	6°♃10'09	
behind sun end	1319 Dec 05 j 06:03	20°♃45'23		min. Earth dist.	1325 Dec 17 j 02:59	4°♃46'40	4.21178 AU
morning rise	1319 Dec 17 j 18:23	23°♃37'32		opposition	1325 Dec 18 j 05:14	4°♃37'48	0°01'40
	1320 Jan 15 j 13:41	0°♃			1326 Jan 31 j 11:01	30°♃	
retrograde	1320 Apr 21 j 11:25	12°♃06'45		direct	1326 Feb 15 j 18:52	29°♃36'47	
desc. node	1320 May 09 j 01:25	11°♃37'52			1326 Mar 03 j 06:58	0°♃	
opposition	1320 Jun 21 j 07:42	7°♃12'51	0°-6'-18	evening set	1326 Jun 22 j 15:08	18°♃01'33	
min. Earth dist.	1320 Jun 22 j 09:30	7°♃04'33	4.16051 AU				
direct	1320 Aug 21 j 04:28	2°♃16'52		conjunction	1326 Jul 06 j 06:47	21°♃03'22	0°20'10
evening set	1320 Dec 24 j 08:03	21°♃04'54		minimum elong	1326 Jul 06 j 06:46	21°♃03'22	0°20'10
max. Earth dist.	1321 Jan 05 j 01:20	23°♃50'42	6.09379 AU	max. Earth dist.	1326 Jul 07 j 10:49	21°♃18'57	6.28133 AU
				morning rise	1326 Jul 19 j 21:22	24°♃04'21	
conjunction	1321 Jan 06 j 02:23	24°♃05'30	0°-23'-38		1326 Aug 16 j 14:03	0°♃	
minimum elong	1321 Jan 06 j 02:21	24°♃05'29	0°23'39				

retrograde	1326 Nov 20 j 05:39	11°♏49'09		minimum elong	1333 Jan 10 j 17:48	28°♁53'15	0°28'40
opposition	1327 Jan 19 j 02:30	6°♏49'41	0°53'57	max. Earth dist.	1333 Jan 09 j 20:53	28°♁40'50	6.07148 AU
min. Earth dist.	1327 Jan 18 j 16:45	6°♏52'55	4.34279 AU		1333 Jan 15 j 10:10	0°♁	
direct	1327 Mar 21 j 01:42	1°♏46'58		morning rise	1333 Jan 23 j 14:14	1°♁56'06	
	1327 Jul 03 j 22:15	15°♏			1333 Mar 25 j 17:11	15°♁	
evening set	1327 Jul 26 j 00:32	19°♏40'39		retrograde	1333 Jun 02 j 10:11	21°♁42'49	
				opposition	1333 Aug 01 j 19:12	16°♁45'15	-1°-8'-40
conjunction	1327 Aug 08 j 09:33	22°♏35'00	0°51'02	min. Earth dist.	1333 Aug 01 j 23:54	16°♁43'43	4.01470 AU
minimum elong	1327 Aug 08 j 09:31	22°♏34'58	0°51'02		1333 Aug 15 j 11:13	15°♁	
max. Earth dist.	1327 Aug 08 j 11:09	22°♏35'52	6.39342 AU	direct	1333 Sep 30 j 00:14	11°♁51'25	
morning rise	1327 Aug 21 j 15:52	25°♏27'57			1333 Nov 13 j 09:53	15°♁	
	1327 Sep 12 j 01:55	0°♏			1334 Jan 27 j 15:31	0°♁	
retrograde	1327 Dec 20 j 14:52	12°♏29'40		evening set	1334 Feb 02 j 04:50	1°♁19'43	
opposition	1328 Feb 18 j 20:49	7°♏33'50	1°28'21				
min. Earth dist.	1328 Feb 19 j 04:22	7°♏31'23	4.42903 AU	conjunction	1334 Feb 15 j 05:39	4°♁28'24	0°-58'-29
direct	1328 Apr 20 j 22:02	2°♏30'49		minimum elong	1334 Feb 15 j 05:37	4°♁28'23	0°58'30
evening set	1328 Aug 25 j 18:38	20°♏06'26		max. Earth dist.	1334 Feb 15 j 14:59	4°♁34'02	5.97461 AU
				morning rise	1334 Feb 28 j 09:21	7°♁38'42	
conjunction	1328 Sep 07 j 19:44	22°♏55'29	1°06'42	retrograde	1334 Jul 10 j 13:05	28°♁12'21	
minimum elong	1328 Sep 07 j 19:43	22°♏55'28	1°06'41	opposition	1334 Sep 08 j 12:57	23°♁10'48	-1°-39'-1
max. Earth dist.	1328 Sep 06 j 18:26	22°♏41'46	6.44672 AU	min. Earth dist.	1334 Sep 07 j 18:28	23°♁16'59	3.95597 AU
morning rise	1328 Sep 20 j 18:02	25°♏43'07		direct	1334 Nov 05 j 15:22	18°♁17'04	
	1328 Oct 11 j 01:00	0°♏			1335 Feb 04 j 13:55	0°♁	
retrograde	1329 Jan 18 j 20:39	12°♏28'57		evening set	1335 Mar 11 j 04:17	7°♁59'27	
opposition	1329 Mar 20 j 10:01	7°♏35'49	1°38'15				
min. Earth dist.	1329 Mar 21 j 10:49	7°♏27'51	4.44741 AU	conjunction	1335 Mar 24 j 13:04	11°♁12'27	-1°-6'-16
direct	1329 May 22 j 03:19	2°♏33'32		minimum elong	1335 Mar 24 j 13:04	11°♁12'28	1°06'17
evening set	1329 Sep 25 j 13:32	20°♏07'13		max. Earth dist.	1335 Mar 26 j 05:03	11°♁36'34	5.95888 AU
max. Earth dist.	1329 Oct 06 j 13:03	22°♏30'43	6.42790 AU	morning rise	1335 Apr 07 j 00:58	14°♁27'05	
					1335 Jun 20 j 07:43	0°♁	
conjunction	1329 Oct 08 j 08:42	22°♏54'34	1°04'10	retrograde	1335 Aug 17 j 04:56	5°♁00'59	
minimum elong	1329 Oct 08 j 08:43	22°♏54'35	1°04'10	opposition	1335 Oct 15 j 20:22	29°♁56'24	-1°-30'-2
morning rise	1329 Oct 21 j 01:20	25°♏40'48		min. Earth dist.	1335 Oct 14 j 12:17	0°♁07'19	3.98611 AU
	1329 Nov 10 j 07:36	0°♏			1335 Oct 15 j 09:47	30°♁	
retrograde	1330 Feb 18 j 18:56	12°♏39'05		direct	1335 Dec 12 j 18:07	25°♁00'38	
opposition	1330 Apr 20 j 15:29	7°♏47'09	1°21'52		1336 Feb 07 j 04:06	0°♁	
min. Earth dist.	1330 Apr 22 j 01:46	7°♏36'13	4.39299 AU	evening set	1336 Apr 16 j 17:38	14°♁29'58	
direct	1330 Jun 22 j 06:59	2°♏46'29			1336 Apr 18 j 20:49	15°♁	
	1330 Sep 30 j 07:16	15°♏					
evening set	1330 Oct 26 j 06:07	20°♏34'50		conjunction	1336 Apr 30 j 09:34	17°♁42'55	0°-48'-8
max. Earth dist.	1330 Nov 05 j 20:47	22°♏56'39	6.34162 AU	minimum elong	1336 Apr 30 j 09:37	17°♁42'56	0°48'08
				max. Earth dist.	1336 May 02 j 17:08	18°♁15'39	6.03130 AU
conjunction	1330 Nov 07 j 22:12	23°♏24'17	0°43'54	morning rise	1336 May 14 j 03:37	20°♁56'46	
minimum elong	1330 Nov 07 j 22:14	23°♏24'18	0°43'53		1336 Jun 23 j 21:54	0°♁	
morning rise	1330 Nov 20 j 12:35	26°♏13'10		retrograde	1336 Sep 20 j 21:12	10°♁43'23	
	1330 Dec 07 j 18:47	0°♏		min. Earth dist.	1336 Nov 18 j 00:12	5°♁50'08	4.09229 AU
retrograde	1331 Mar 23 j 10:36	13°♏51'03		opposition	1336 Nov 19 j 10:25	5°♁38'29	0°-46'-58
opposition	1331 May 23 j 09:06	8°♏58'47	0°41'36	direct	1337 Jan 16 j 23:06	0°♁39'44	
min. Earth dist.	1331 May 24 j 20:36	8°♏47'28	4.27937 AU	evening set	1337 May 23 j 11:36	19°♁36'15	
direct	1331 Jul 24 j 07:56	4°♏00'29					
evening set	1331 Nov 26 j 18:28	22°♏17'48		conjunction	1337 Jun 06 j 05:49	22°♁44'22	0°-12'-50
max. Earth dist.	1331 Dec 07 j 14:46	24°♏47'22	6.20991 AU	minimum elong	1337 Jun 06 j 05:50	22°♁44'23	0°12'51
				behind sun begin	1337 Jun 06 j 00:49	22°♁41'32	
conjunction	1331 Dec 09 j 10:28	25°♏12'33	0°10'01	behind sun end	1337 Jun 06 j 10:50	22°♁47'13	
minimum elong	1331 Dec 09 j 10:29	25°♏12'34	0°10'02	max. Earth dist.	1337 Jun 08 j 05:02	23°♁11'18	6.16170 AU
behind sun begin	1331 Dec 09 j 04:00	25°♏08'51		morning rise	1337 Jun 20 j 00:36	25°♁52'25	
behind sun end	1331 Dec 09 j 16:57	25°♏16'17			1337 Jul 08 j 14:04	0°♁	
morning rise	1331 Dec 22 j 02:29	28°♏07'32		asc. node	1337 Oct 15 j 04:27	14°♁22'31	
	1331 Dec 30 j 07:48	0°♏		retrograde	1337 Oct 24 j 04:44	14°♁30'37	
desc. node	1332 Mar 20 j 22:14	14°♁45'53		opposition	1337 Dec 22 j 20:55	9°♁27'58	0°09'50
retrograde	1332 Apr 26 j 07:46	16°♁46'40		min. Earth dist.	1337 Dec 21 j 20:48	9°♁36'07	4.23292 AU
opposition	1332 Jun 26 j 02:51	11°♁52'23	0°-14'-12	direct	1338 Feb 20 j 16:13	4°♁26'33	
min. Earth dist.	1332 Jun 27 j 02:52	11°♁44'38	4.13797 AU	evening set	1338 Jun 27 j 11:59	22°♁45'45	
direct	1332 Aug 25 j 18:34	6°♁56'37					
evening set	1332 Dec 28 j 22:39	25°♁51'24		conjunction	1338 Jul 11 j 03:00	25°♁46'24	0°25'17
				minimum elong	1338 Jul 11 j 02:59	25°♁46'23	0°25'16
conjunction	1333 Jan 10 j 17:49	28°♁53'16	0°-28'-39	max. Earth dist.	1338 Jul 12 j 04:55	26°♁00'45	6.30158 AU

morning rise	1338 Jul 24 j 16:21	28°♄46'02		opposition	1344 Jul 01 j 04:49	16°♃49'29	0°-22'-31
	1338 Jul 30 j 07:40	0°♌		min. Earth dist.	1344 Jul 02 j 03:18	16°♃42'13	4.11682 AU
	1338 Oct 26 j 00:29	15°♌		direct	1344 Aug 30 j 15:45	11°♃54'05	
retrograde	1338 Nov 24 j 13:55	16°♌22'34			1344 Dec 29 j 22:51	0°♁	
	1338 Dec 23 j 23:29	15°♌		evening set	1345 Jan 02 j 19:48	0°♁54'49	
opposition	1339 Jan 23 j 12:29	11°♌23'39	1°00'09				
min. Earth dist.	1339 Jan 23 j 04:32	11°♌26'17	4.36044 AU	conjunction	1345 Jan 15 j 15:32	3°♁57'47	0°-33'-47
direct	1339 Mar 25 j 15:34	6°♌20'51		minimum elong	1345 Jan 15 j 15:30	3°♁57'46	0°33'47
	1339 Jun 15 j 09:51	15°♌		max. Earth dist.	1345 Jan 14 j 21:24	3°♁46'59	6.05283 AU
evening set	1339 Jul 30 j 14:34	24°♌10'24		morning rise	1345 Jan 28 j 13:01	7°♁01'52	
					1345 Mar 04 j 13:18	15°♁	
conjunction	1339 Aug 12 j 22:15	27°♌03'42	0°54'17	retrograde	1345 Jun 07 j 18:08	26°♁57'37	
minimum elong	1339 Aug 12 j 22:13	27°♌03'41	0°54'17	opposition	1345 Aug 07 j 03:04	21°♁59'29	-1°-14'-58
max. Earth dist.	1339 Aug 12 j 18:21	27°♌01'35	6.40689 AU	min. Earth dist.	1345 Aug 07 j 03:17	21°♁59'25	4.00081 AU
morning rise	1339 Aug 26 j 03:29	29°♌55'38		direct	1345 Oct 05 j 02:40	17°♁05'50	
	1339 Aug 26 j 11:35	0°♍			1346 Jan 09 j 23:15	0°♁	
retrograde	1339 Dec 24 j 21:54	16°♍52'52		evening set	1346 Feb 07 j 09:03	6°♁37'49	
opposition	1340 Feb 23 j 04:12	11°♍57'32	1°31'18				
min. Earth dist.	1340 Feb 23 j 15:21	11°♍53'54	4.43764 AU	conjunction	1346 Feb 20 j 10:58	9°♁47'20	-1°-1'-9
direct	1340 Apr 25 j 09:35	6°♍54'30		minimum elong	1346 Feb 20 j 10:57	9°♁47'19	1°01'10
evening set	1340 Aug 30 j 03:42	24°♍28'26		max. Earth dist.	1346 Feb 21 j 02:12	9°♁56'32	5.96693 AU
max. Earth dist.	1340 Sep 11 j 00:01	27°♍01'52	6.44968 AU	morning rise	1346 Mar 05 j 15:42	12°♁58'27	
					1346 May 28 j 11:38	0°♁	
conjunction	1340 Sep 12 j 03:58	27°♍16'59	1°07'27	retrograde	1346 Jul 16 j 00:07	3°♁35'10	
minimum elong	1340 Sep 12 j 03:57	27°♍16'59	1°07'27		1346 Sep 02 j 23:09	30°♁	
	1340 Sep 24 j 17:31	0°♎		opposition	1346 Sep 13 j 21:53	28°♁33'02	-1°-40'-13
morning rise	1340 Sep 25 j 01:09	0°♎04'07		min. Earth dist.	1346 Sep 13 j 01:14	28°♁39'58	3.95566 AU
retrograde	1341 Jan 23 j 02:15	16°♎49'41		direct	1346 Nov 10 j 23:32	23°♁39'06	
opposition	1341 Mar 24 j 17:47	11°♎56'49	1°37'29		1347 Jan 14 j 01:11	0°♁	
min. Earth dist.	1341 Mar 25 j 19:45	11°♎48'30	4.44479 AU	evening set	1347 Mar 16 j 12:14	13°♁20'37	
direct	1341 May 26 j 10:57	6°♎54'42					
evening set	1341 Sep 29 j 20:49	24°♎29'24		conjunction	1347 Mar 29 j 22:09	16°♁33'49	-1°-5'-10
max. Earth dist.	1341 Oct 10 j 18:01	26°♎51'58	6.41980 AU	minimum elong	1347 Mar 29 j 22:10	16°♁33'50	1°05'12
				max. Earth dist.	1347 Mar 31 j 18:48	17°♁00'39	5.96592 AU
conjunction	1341 Oct 12 j 15:19	27°♎16'48	1°02'18	morning rise	1347 Apr 12 j 11:05	19°♁48'33	
minimum elong	1341 Oct 12 j 15:20	27°♎16'49	1°02'19		1347 May 27 j 18:36	0°♁	
morning rise	1341 Oct 25 j 07:26	0°♏03'10		retrograde	1347 Aug 22 j 08:59	10°♁17'07	
	1341 Oct 25 j 01:37	0°♏		min. Earth dist.	1347 Oct 19 j 14:26	5°♁23'45	3.99980 AU
	1342 Jan 17 j 00:00	15°♏		opposition	1347 Oct 21 j 00:06	5°♁12'18	-1°-25'-35
retrograde	1342 Feb 23 j 06:58	17°♏05'26		direct	1347 Dec 17 j 22:21	0°♁16'08	
	1342 Apr 01 j 21:26	15°♏			1348 Apr 01 j 14:57	15°♁	
opposition	1342 Apr 25 j 03:24	12°♏13'36	1°17'29	evening set	1348 Apr 21 j 23:52	19°♁40'31	
min. Earth dist.	1342 Apr 26 j 15:29	12°♏02'07	4.37978 AU				
direct	1342 Jun 26 j 18:25	7°♏13'13		conjunction	1348 May 05 j 16:15	22°♁52'50	0°-43'-51
	1342 Sep 11 j 15:20	15°♏		minimum elong	1348 May 05 j 16:18	22°♁52'51	0°43'52
evening set	1342 Oct 30 j 14:52	25°♏05'03		max. Earth dist.	1348 May 07 j 22:42	23°♁24'45	6.05009 AU
max. Earth dist.	1342 Nov 10 j 03:52	27°♏26'35	6.32425 AU	morning rise	1348 May 19 j 10:51	26°♁05'59	
					1348 Jun 05 j 11:44	0°♐	
conjunction	1342 Nov 12 j 06:44	27°♏55'08	0°39'46	retrograde	1348 Sep 25 j 15:44	15°♐42'17	
minimum elong	1342 Nov 12 j 06:46	27°♏55'09	0°39'46	min. Earth dist.	1348 Nov 22 j 20:45	10°♐48'51	4.11391 AU
	1342 Nov 21 j 13:14	0°♑		opposition	1348 Nov 24 j 06:03	10°♐37'30	0°-39'-16
morning rise	1342 Nov 24 j 21:16	0°♑44'45		direct	1349 Jan 21 j 23:27	5°♐38'15	
retrograde	1343 Mar 28 j 04:53	18°♑30'31		evening set	1349 May 28 j 11:29	24°♐28'18	
opposition	1343 May 28 j 03:24	13°♑38'02	0°34'20				
min. Earth dist.	1343 May 29 j 13:28	13°♑27'09	4.25893 AU	conjunction	1349 Jun 11 j 05:41	27°♐35'22	0°-7'-22
direct	1343 Jul 28 j 21:38	8°♑40'03		minimum elong	1349 Jun 11 j 05:41	27°♐35'22	0°07'22
evening set	1343 Dec 01 j 08:12	27°♑02'57		behind sun begin	1349 Jun 10 j 22:05	27°♐31'04	
max. Earth dist.	1343 Dec 12 j 08:15	29°♑35'21	6.18825 AU	behind sun end	1349 Jun 11 j 13:18	27°♐39'39	
				max. Earth dist.	1349 Jun 13 j 03:24	28°♐01'18	6.18444 AU
conjunction	1343 Dec 14 j 00:37	29°♑58'44	0°04'35		1349 Jun 21 j 21:01	0°♑	
minimum elong	1343 Dec 14 j 00:37	29°♑58'44	0°04'35	morning rise	1349 Jun 24 j 23:48	0°♑42'07	
behind sun begin	1343 Dec 13 j 16:47	29°♑54'13		asc. node	1349 Aug 25 j 03:47	13°♑08'40	
behind sun end	1343 Dec 14 j 08:26	0°♒03'14		retrograde	1349 Oct 28 j 16:23	19°♑09'58	
	1343 Dec 14 j 02:47	0°♒		min. Earth dist.	1349 Dec 26 j 11:01	14°♑15'12	4.25450 AU
morning rise	1343 Dec 26 j 16:57	2°♒54'48		opposition	1349 Dec 27 j 08:55	14°♑07'50	0°17'37
desc. node	1344 Jan 29 j 01:29	10°♒18'34		direct	1350 Feb 25 j 08:54	9°♑06'09	
retrograde	1344 May 01 j 11:59	21°♒44'06		evening set	1350 Jul 02 j 04:53	27°♑19'53	

	1350 Jul 14 j 07:49	0°♈		behind sun begin	1355 Dec 18 j 08:18	4°♁44'19	
				behind sun end	1355 Dec 19 j 00:19	4°♁53'35	
conjunction	1350 Jul 15 j 18:53	0°♈19'21	0°30'04	morning rise	1355 Dec 31 j 09:19	7°♁46'09	
minimum elong	1350 Jul 15 j 18:51	0°♈19'20	0°30'03	retrograde	1356 May 06 j 15:27	26°♁45'15	
max. Earth dist.	1350 Jul 16 j 15:12	0°♈30'33	6.32022 AU	opposition	1356 Jul 06 j 08:26	21°♁50'11	0°-30'-47
morning rise	1350 Jul 29 j 07:20	3°♈17'47		min. Earth dist.	1356 Jul 07 j 02:50	21°♁44'13	4.09841 AU
	1350 Sep 26 j 07:40	15°♈		direct	1356 Sep 04 j 13:15	16°♁55'10	
retrograde	1350 Nov 28 j 20:01	20°♈47'08			1356 Dec 12 j 16:43	0°≈	
opposition	1351 Jan 27 j 19:27	15°♈48'44	1°05'48	evening set	1357 Jan 07 j 18:02	6°≈00'41	
min. Earth dist.	1351 Jan 27 j 14:47	15°♈50'17	4.37496 AU				
	1351 Feb 02 j 23:23	15°♈♈		conjunction	1357 Jan 20 j 14:28	9°≈04'35	0°-38'-41
direct	1351 Mar 30 j 02:46	10°♈45'47		minimum elong	1357 Jan 20 j 14:26	9°≈04'34	0°38'41
	1351 May 24 j 02:49	15°♈		max. Earth dist.	1357 Jan 20 j 01:53	8°≈57'04	6.03829 AU
evening set	1351 Aug 04 j 01:21	28°♈32'21		morning rise	1357 Feb 02 j 12:42	12°≈09'39	
	1351 Aug 10 j 19:38	0°♉			1357 Feb 14 j 14:20	15°≈	
					1357 May 06 j 07:10	0°♉	
conjunction	1351 Aug 17 j 08:09	1°♉24'53	0°57'08	retrograde	1357 Jun 13 j 04:06	2°♉12'39	
minimum elong	1351 Aug 17 j 08:07	1°♉24'52	0°57'08		1357 Jul 21 j 03:33	30°♈≈	
max. Earth dist.	1351 Aug 17 j 01:20	1°♉21'11	6.41626 AU	opposition	1357 Aug 12 j 10:56	27°≈13'57	-1°-20'-39
morning rise	1351 Aug 30 j 12:03	4°♉15'57		min. Earth dist.	1357 Aug 12 j 08:32	27°≈14'45	3.99162 AU
retrograde	1351 Dec 29 j 01:56	21°♉10'18		direct	1357 Oct 10 j 07:58	22°≈20'24	
opposition	1352 Feb 27 j 09:45	16°♉15'26	1°33'43		1357 Dec 20 j 21:12	0°♉	
min. Earth dist.	1352 Feb 27 j 22:55	16°♉11'09	4.44149 AU	evening set	1358 Feb 12 j 13:02	11°♉54'20	
direct	1352 Apr 29 j 16:42	11°♉12'31					
evening set	1352 Sep 03 j 11:08	28°♉46'14		conjunction	1358 Feb 25 j 15:57	15°♉04'26	-1°-3'-19
	1352 Sep 09 j 03:58	0°♊		minimum elong	1358 Feb 25 j 15:56	15°♉04'26	1°03'19
max. Earth dist.	1352 Sep 15 j 02:01	1°♊16'56	6.44761 AU	max. Earth dist.	1358 Feb 26 j 12:06	15°♉16'37	5.96377 AU
				morning rise	1358 Mar 10 j 21:47	18°♉16'11	
conjunction	1352 Sep 16 j 10:21	1°♊34'28	1°07'50		1358 May 02 j 12:31	0°♊	
minimum elong	1352 Sep 16 j 10:20	1°♊34'28	1°07'50	retrograde	1358 Jul 21 j 07:42	8°♊53'47	
morning rise	1352 Sep 29 j 06:51	4°♊21'24		min. Earth dist.	1358 Sep 18 j 05:05	3°♊59'05	3.95917 AU
retrograde	1353 Jan 27 j 10:47	21°♊08'30		opposition	1358 Sep 19 j 04:34	3°♊51'11	-1°-40'-34
opposition	1353 Mar 29 j 01:47	16°♊15'56	1°36'13		1358 Oct 22 j 07:41	30°♈♉	
min. Earth dist.	1353 Mar 30 j 06:33	16°♊06'43	4.43709 AU	direct	1358 Nov 16 j 03:43	28°♉57'06	
direct	1353 May 30 j 19:59	11°♊14'01			1358 Dec 11 j 00:06	0°♊	
evening set	1353 Oct 04 j 03:53	28°♊51'10		evening set	1359 Mar 21 j 18:23	18°♊36'45	
	1353 Oct 09 j 09:51	0°♋					
max. Earth dist.	1353 Oct 14 j 23:21	1°♋13'15	6.40703 AU	conjunction	1359 Apr 04 j 05:11	21°♊49'57	-1°-3'-34
				minimum elong	1359 Apr 04 j 05:13	21°♊49'58	1°03'35
conjunction	1353 Oct 16 j 21:59	1°♋38'54	1°00'06	max. Earth dist.	1359 Apr 06 j 03:00	22°♊17'25	5.97538 AU
minimum elong	1353 Oct 16 j 22:01	1°♋38'55	1°00'06	morning rise	1359 Apr 17 j 19:11	25°♊04'40	
morning rise	1353 Oct 29 j 13:39	4°♋25'37			1359 May 08 j 22:07	0°♋	
	1353 Dec 21 j 03:35	15°♋			1359 Aug 10 j 19:11	15°♋	
retrograde	1354 Feb 27 j 18:59	21°♋33'28		retrograde	1359 Aug 27 j 09:23	15°♋27'19	
opposition	1354 Apr 29 j 16:24	16°♋41'41	1°12'39		1359 Sep 12 j 22:22	15°♋♋	
min. Earth dist.	1354 May 01 j 03:50	16°♋30'24	4.36288 AU	min. Earth dist.	1359 Oct 24 j 14:45	10°♋34'01	4.01412 AU
	1354 May 13 j 06:13	15°♋♋		opposition	1359 Oct 26 j 01:05	10°♋22'19	-1°-20'-34
direct	1354 Jul 01 j 03:49	11°♋41'40		direct	1359 Dec 23 j 01:28	5°♋25'44	
	1354 Aug 18 j 09:30	15°♋			1360 Mar 13 j 20:26	15°♋	
evening set	1354 Nov 04 j 00:57	29°♋38'08		evening set	1360 Apr 27 j 03:30	24°♋45'24	
	1354 Nov 05 j 16:02	0°♌					
max. Earth dist.	1354 Nov 14 j 15:21	2°♌01'06	6.30467 AU	conjunction	1360 May 10 j 20:35	27°♋57'10	0°-39'-20
				minimum elong	1360 May 10 j 20:38	27°♋57'11	0°39'21
conjunction	1354 Nov 16 j 16:43	2°♌28'57	0°35'22	max. Earth dist.	1360 May 13 j 03:44	28°♋29'21	6.06809 AU
minimum elong	1354 Nov 16 j 16:45	2°♌28'58	0°35'22		1360 May 19 j 15:19	0°♌	
morning rise	1354 Nov 29 j 07:19	5°♌19'26		morning rise	1360 May 24 j 15:17	1°♌09'33	
retrograde	1355 Apr 02 j 03:11	23°♌13'53		retrograde	1360 Sep 30 j 10:14	20°♌36'20	
opposition	1355 Jun 01 j 23:55	18°♌21'16	0°26'45	opposition	1360 Nov 28 j 23:28	15°♌31'50	0°-31'-27
min. Earth dist.	1355 Jun 03 j 09:30	18°♌10'31	4.23788 AU	min. Earth dist.	1360 Nov 27 j 15:52	15°♌42'35	4.13359 AU
direct	1355 Aug 02 j 14:45	13°♌23'43		direct	1361 Jan 26 j 21:02	10°♌32'14	
	1355 Nov 27 j 19:51	0°♍		evening set	1361 Jun 02 j 09:58	29°♌16'55	
evening set	1355 Dec 05 j 23:37	1°♍52'10			1361 Jun 05 j 14:32	0°♍	
desc. node	1355 Dec 08 j 00:53	2°♍20'38					
max. Earth dist.	1355 Dec 17 j 01:58	4°♍26'39	6.16762 AU	conjunction	1361 Jun 16 j 03:47	2°♍22'58	0°-1'-54
				minimum elong	1361 Jun 16 j 03:46	2°♍22'58	0°01'55
conjunction	1355 Dec 18 j 16:18	4°♍48'57	0°-1'-4	behind sun begin	1361 Jun 15 j 19:23	2°♍18'15	
minimum elong	1355 Dec 18 j 16:18	4°♍48'57	0°01'05	behind sun end	1361 Jun 16 j 12:08	2°♍27'40	

max. Earth dist.	1361 Jun 17 j 21:45	2°♄46'41	6.20409 AU	max. Earth dist.	1367 Dec 21 j 21:24	9°♁18'04	6.15163 AU
morning rise	1361 Jun 29 j 21:29	5°♄28'39		conjunction	1367 Dec 23 j 07:55	9°♁38'14	0°-6'-35
asc. node	1361 Jul 05 j 06:54	6°♄40'51		minimum elong	1367 Dec 23 j 07:54	9°♁38'14	0°06'35
retrograde	1361 Nov 02 j 01:44	23°♄47'32		behind sun begin	1367 Dec 23 j 00:24	9°♁33'52	
opposition	1361 Dec 31 j 19:42	18°♄45'51	0°25'12	behind sun end	1367 Dec 23 j 15:25	9°♁42'36	
min. Earth dist.	1361 Dec 30 j 23:49	18°♄52'32	4.27256 AU	morning rise	1368 Jan 05 j 01:23	12°♁36'19	
direct	1362 Mar 01 j 23:24	13°♄43'53			1368 Apr 08 j 06:45	0°≈	
	1362 Jun 28 j 03:54	0°♁		retrograde	1368 May 11 j 19:08	1°≈43'21	
evening set	1362 Jul 06 j 21:02	1°♁53'30			1368 Jun 14 j 10:18	30°R♁	
conjunction	1362 Jul 20 j 10:15	4°♁51'59	0°34'38	opposition	1368 Jul 11 j 10:51	26°♁47'48	0°-38'-41
minimum elong	1362 Jul 20 j 10:13	4°♁51'58	0°34'39	min. Earth dist.	1368 Jul 12 j 03:10	26°♁42'30	4.08481 AU
max. Earth dist.	1362 Jul 21 j 03:07	5°♁01'16	6.33539 AU	direct	1368 Sep 09 j 12:42	21°♁53'02	
morning rise	1362 Aug 02 j 21:31	7°♁49'19			1368 Nov 23 j 13:59	0°≈	
	1362 Sep 06 j 03:49	15°♁		evening set	1369 Jan 12 j 14:41	11°≈01'36	
retrograde	1362 Dec 03 j 03:02	25°♁12'47		conjunction	1369 Jan 25 j 11:49	14°≈06'13	0°-43'-9
opposition	1363 Feb 01 j 02:43	20°♁14'56	1°11'05	minimum elong	1369 Jan 25 j 11:46	14°≈06'12	0°43'11
min. Earth dist.	1363 Feb 01 j 00:51	20°♁15'33	4.38626 AU	max. Earth dist.	1369 Jan 25 j 03:36	14°≈01'18	6.02831 AU
direct	1363 Apr 03 j 13:51	15°♁11'55			1369 Jan 29 j 05:39	15°≈	
	1363 Jul 25 j 16:45	0°♎		morning rise	1369 Feb 07 j 10:54	17°≈12'06	
evening set	1363 Aug 08 j 12:29	2°♎56'22			1369 Apr 07 j 10:13	0°♋	
conjunction	1363 Aug 21 j 18:06	5°♎48'11	0°59'42	retrograde	1369 Jun 18 j 09:35	7°♋20'15	
minimum elong	1363 Aug 21 j 18:04	5°♎48'10	0°59'41	opposition	1369 Aug 17 j 15:40	2°♋21'01	-1°-25'-30
max. Earth dist.	1363 Aug 21 j 06:16	5°♎41'46	6.42265 AU	min. Earth dist.	1369 Aug 17 j 09:48	2°♋22'57	3.98658 AU
morning rise	1363 Sep 03 j 21:02	8°♎38'35			1369 Sep 05 j 04:49	30°R♎	
retrograde	1364 Jan 02 j 08:15	25°♎30'58		direct	1369 Oct 15 j 08:26	27°≈27'31	
opposition	1364 Mar 02 j 16:34	20°♎36'27	1°35'39		1369 Nov 23 j 20:39	0°♋	
min. Earth dist.	1364 Mar 03 j 08:27	20°♎31'18	4.44296 AU	evening set	1370 Feb 17 j 14:03	17°♋02'04	
direct	1364 May 04 j 01:40	15°♎33'35		conjunction	1370 Mar 02 j 17:48	20°♋12'34	-1°-4'-53
	1364 Aug 24 j 02:19	0°♌		minimum elong	1370 Mar 02 j 17:47	20°♋12'33	1°04'54
evening set	1364 Sep 07 j 19:28	3°♌07'33		max. Earth dist.	1370 Mar 03 j 16:43	20°♋26'25	5.96383 AU
max. Earth dist.	1364 Sep 19 j 08:26	5°♌37'24	6.44405 AU	morning rise	1370 Mar 16 j 00:46	23°♋24'46	
conjunction	1364 Sep 20 j 17:59	5°♌55'37	1°07'50		1370 Apr 13 j 07:14	0°♎	
minimum elong	1364 Sep 20 j 17:59	5°♌55'37	1°07'51	retrograde	1370 Jul 26 j 09:53	14°♎02'00	
morning rise	1364 Oct 03 j 13:30	8°♌42'20		min. Earth dist.	1370 Sep 23 j 05:41	9°♎07'31	3.96441 AU
retrograde	1365 Jan 31 j 18:32	25°♌31'18		opposition	1370 Sep 24 j 07:05	8°♎58'56	-1°-40'-4
opposition	1365 Apr 02 j 11:03	20°♌38'56	1°34'25	direct	1370 Nov 21 j 05:42	4°♎04'34	
min. Earth dist.	1365 Apr 03 j 16:24	20°♌29'33	4.42898 AU	evening set	1371 Mar 26 j 20:40	23°♎42'01	
direct	1365 Jun 04 j 04:09	15°♌37'18		conjunction	1371 Apr 09 j 08:38	26°♎55'14	-1°-1'-31
	1365 Sep 23 j 06:50	0°♍		minimum elong	1371 Apr 09 j 08:40	26°♎55'16	1°01'32
evening set	1365 Oct 08 j 12:15	3°♍16'45		max. Earth dist.	1371 Apr 11 j 09:28	27°♎24'25	5.98536 AU
max. Earth dist.	1365 Oct 19 j 05:37	5°♍38'11	6.39505 AU	morning rise	1371 Apr 22 j 23:21	0°♏09'51	
conjunction	1365 Oct 21 j 05:44	6°♍04'44	0°57'32		1371 Apr 22 j 06:44	0°♏	
minimum elong	1365 Oct 21 j 05:45	6°♍04'45	0°57'32		1371 Jul 02 j 18:34	15°♏	
morning rise	1365 Nov 02 j 21:11	8°♍51'49		retrograde	1371 Sep 01 j 08:06	20°♏26'28	
	1365 Dec 01 j 18:13	15°♍		opposition	1371 Oct 30 j 21:52	15°♏21'28	-1°-15'-8
retrograde	1366 Mar 04 j 10:44	26°♍04'57		min. Earth dist.	1371 Oct 29 j 12:16	15°♏32'55	4.02765 AU
opposition	1366 May 04 j 07:08	21°♍13'08	1°07'19		1371 Nov 02 j 12:53	15°R♏	
min. Earth dist.	1366 May 05 j 19:19	21°♍01'36	4.34781 AU	direct	1371 Dec 28 j 00:42	10°♏24'30	
direct	1366 Jul 05 j 17:19	16°♍13'27			1372 Feb 20 j 07:01	15°♏	
	1366 Oct 20 j 06:40	0°♎		evening set	1372 May 02 j 03:48	29°♏40'12	
evening set	1366 Nov 08 j 11:33	4°♎13'32			1372 May 03 j 14:02	0°♐	
max. Earth dist.	1366 Nov 19 j 03:21	6°♎37'50	6.28795 AU	conjunction	1372 May 15 j 21:15	2°♐51'27	0°-34'-42
conjunction	1366 Nov 21 j 03:21	7°♎05'01	0°30'44	minimum elong	1372 May 15 j 21:18	2°♐51'28	0°34'42
minimum elong	1366 Nov 21 j 03:23	7°♎05'02	0°30'44	max. Earth dist.	1372 May 18 j 02:39	3°♐22'29	6.08392 AU
morning rise	1366 Dec 03 j 18:02	9°♎56'13		morning rise	1372 May 29 j 16:22	6°♐03'15	
retrograde	1367 Apr 06 j 22:49	27°♎58'16		retrograde	1372 Oct 04 j 23:21	25°♐21'39	
opposition	1367 Jun 06 j 20:46	23°♎05'21	0°19'00	min. Earth dist.	1372 Dec 02 j 06:45	20°♐27'58	4.15016 AU
min. Earth dist.	1367 Jun 08 j 03:33	22°♎55'30	4.22075 AU	opposition	1372 Dec 03 j 13:37	20°♐17'28	0°-23'-44
direct	1367 Aug 07 j 06:25	18°♎08'13		direct	1373 Jan 31 j 13:46	15°♐17'31	
desc. node	1367 Oct 17 j 21:19	25°♎17'41		asc. node	1373 May 16 j 17:01	29°♐14'24	
	1367 Nov 10 j 17:35	0°♁			1373 May 20 j 05:43	0°♁	
evening set	1367 Dec 10 j 15:00	6°♁40'41		evening set	1373 Jun 07 j 05:35	3°♁58'15	

conjunction	1373 Jun 20 j 23:08	7°♄03'28	0°03'30			1379 May 24 j 17:22	30°♁♁	
minimum elong	1373 Jun 20 j 23:08	7°♄03'29	0°03'29	opposition		1379 Jun 11 j 16:32	27°♁47'20	0°11'07
behind sun begin	1373 Jun 20 j 14:52	6°♄58'50		min. Earth dist.		1379 Jun 12 j 22:39	27°♁37'40	4.20280 AU
behind sun end	1373 Jun 21 j 07:25	7°♄08'07		direct		1379 Aug 11 j 23:32	22°♁50'29	
max. Earth dist.	1373 Jun 22 j 13:46	7°♄25'14	6.22031 AU	desc. node		1379 Aug 27 j 23:28	23°♁14'41	
morning rise	1373 Jul 04 j 16:16	10°♄08'14				1379 Oct 22 j 07:53	0°♁	
retrograde	1373 Nov 06 j 11:55	28°♄19'48		evening set		1379 Dec 15 j 05:08	11°♁27'30	
opposition	1374 Jan 05 j 05:03	23°♄18'40	0°32'24					
min. Earth dist.	1374 Jan 04 j 12:08	23°♄24'21	4.28704 AU	conjunction		1379 Dec 27 j 22:34	14°♁26'00	0°-12'00
direct	1374 Mar 06 j 13:22	18°♄16'34		minimum elong		1379 Dec 27 j 22:33	14°♁25'59	0°12'01
	1374 Jun 11 j 05:53	0°♁		behind sun begin		1379 Dec 27 j 16:58	14°♁22'44	
evening set	1374 Jul 11 j 11:42	6°♁23'17		behind sun end		1379 Dec 28 j 04:09	14°♁29'15	
				max. Earth dist.		1379 Dec 26 j 15:01	14°♁07'31	6.13367 AU
conjunction	1374 Jul 25 j 00:03	9°♁20'56	0°38'54	morning rise		1380 Jan 09 j 16:36	17°♁25'06	
minimum elong	1374 Jul 25 j 00:01	9°♁20'55	0°38'54			1380 Mar 09 j 03:42	0°≈	
max. Earth dist.	1374 Jul 25 j 13:12	9°♁28'08	6.34711 AU	retrograde		1380 May 16 j 21:31	6°≈41'01	
morning rise	1374 Aug 07 j 10:20	12°♁17'23		opposition		1380 Jul 16 j 12:33	1°≈45'02	0°-46'-21
	1374 Aug 20 j 00:05	15°♁		min. Earth dist.		1380 Jul 17 j 01:55	1°≈40'41	4.06842 AU
retrograde	1374 Dec 07 j 07:57	29°♁36'14				1380 Jul 30 j 06:57	30°♁♁	
opposition	1375 Feb 05 j 09:18	24°♁38'52	1°15'52	direct		1380 Sep 14 j 09:00	26°♁50'32	
min. Earth dist.	1375 Feb 05 j 09:14	24°♁38'54	4.39478 AU			1380 Oct 29 j 07:43	0°≈	
direct	1375 Apr 07 j 22:54	19°♁35'51				1381 Jan 13 j 00:35	15°≈	
	1375 Jul 08 j 11:02	0°♁		evening set		1381 Jan 17 j 11:35	16°≈03'31	
evening set	1375 Aug 12 j 22:56	7°♁19'00						
				conjunction		1381 Jan 30 j 09:22	19°≈09'02	0°-47'-22
conjunction	1375 Aug 26 j 03:35	10°♁10'13	1°01'51	minimum elong		1381 Jan 30 j 09:19	19°≈09'01	0°47'23
minimum elong	1375 Aug 26 j 03:33	10°♁10'12	1°01'51	max. Earth dist.		1381 Jan 30 j 04:20	19°≈06'01	6.01484 AU
max. Earth dist.	1375 Aug 25 j 13:25	10°♁02'32	6.42745 AU	morning rise		1381 Feb 12 j 09:29	22°≈15'57	
morning rise	1375 Sep 08 j 05:21	13°♁00'00				1381 Mar 18 j 01:43	0°♁	
retrograde	1376 Jan 06 j 14:11	29°♁50'54		retrograde		1381 Jun 23 j 15:53	12°♁30'50	
opposition	1376 Mar 06 j 23:19	24°♁56'48	1°36'59	opposition		1381 Aug 22 j 20:52	7°♁30'59	-1°-29'-49
min. Earth dist.	1376 Mar 07 j 17:05	24°♁51'03	4.44388 AU	min. Earth dist.		1381 Aug 22 j 12:06	7°♁33'53	3.97748 AU
direct	1376 May 08 j 10:19	19°♁54'07		direct		1381 Oct 20 j 10:12	2°♁37'25	
	1376 Aug 06 j 19:56	0°♁		evening set		1382 Feb 22 j 16:53	22°♁14'24	
evening set	1376 Sep 12 j 03:11	7°♁28'11						
max. Earth dist.	1376 Sep 23 j 11:49	9°♁55'57	6.44081 AU	conjunction		1382 Mar 07 j 21:56	25°♁25'37	-1°-6'00
				minimum elong		1382 Mar 07 j 21:55	25°♁25'37	1°06'02
conjunction	1376 Sep 25 j 00:46	10°♁16'02	1°07'27	max. Earth dist.		1382 Mar 09 j 02:07	25°♁42'39	5.96002 AU
minimum elong	1376 Sep 25 j 00:46	10°♁16'03	1°07'26	morning rise		1382 Mar 21 j 05:54	28°♁38'29	
morning rise	1376 Oct 07 j 19:41	13°♁02'37				1382 Mar 26 j 22:28	0°♁	
retrograde	1377 Feb 05 j 03:50	29°♁53'23		retrograde		1382 Jul 31 j 16:50	19°♁16'30	
opposition	1377 Apr 06 j 20:23	25°♁01'08	1°32'03	min. Earth dist.		1382 Sep 28 j 08:57	14°♁22'02	3.96645 AU
min. Earth dist.	1377 Apr 08 j 03:10	24°♁51'17	4.42174 AU	opposition		1382 Sep 29 j 11:31	14°♁13'03	-1°-38'-50
direct	1377 Jun 08 j 13:48	19°♁59'41		direct		1382 Nov 26 j 09:30	9°♁18'23	
	1377 Sep 06 j 00:01	0°♁		evening set		1383 Apr 01 j 02:19	28°♁54'56	
evening set	1377 Oct 12 j 19:22	7°♁40'50				1383 Apr 05 j 15:53	0°♁	
max. Earth dist.	1377 Oct 23 j 13:05	10°♁02'49	6.38420 AU					
				conjunction		1383 Apr 14 j 15:12	2°♁08'17	0°-58'-57
conjunction	1377 Oct 25 j 12:34	10°♁29'05	0°54'39	minimum elong		1383 Apr 14 j 15:15	2°♁08'18	0°58'58
minimum elong	1377 Oct 25 j 12:36	10°♁29'06	0°54'39	max. Earth dist.		1383 Apr 16 j 17:04	2°♁37'59	5.99283 AU
morning rise	1377 Nov 07 j 03:32	13°♁16'28		morning rise		1383 Apr 28 j 07:03	5°♁22'58	
	1377 Nov 15 j 00:54	15°♁				1383 Jun 10 j 06:03	15°♁	
	1378 Feb 17 j 16:38	0°♁		retrograde		1383 Sep 06 j 07:20	25°♁34'04	
retrograde	1378 Mar 08 j 22:41	0°♁34'30		min. Earth dist.		1383 Nov 03 j 10:37	20°♁40'52	4.03979 AU
	1378 Mar 28 j 05:57	30°♁♁		opposition		1383 Nov 04 j 21:28	20°♁28'59	-1°-9'-1
opposition	1378 May 08 j 20:44	25°♁42'36	1°01'36	direct		1384 Jan 02 j 01:08	15°♁31'36	
min. Earth dist.	1378 May 10 j 08:14	25°♁31'18	4.33374 AU			1384 Apr 16 j 10:30	0°♁	
direct	1378 Jul 10 j 03:50	20°♁43'16		evening set		1384 May 07 j 07:43	4°♁43'45	
	1378 Oct 02 j 12:48	0°♁						
evening set	1378 Nov 12 j 21:05	8°♁46'41		conjunction		1384 May 21 j 01:36	7°♁54'29	0°-29'-39
max. Earth dist.	1378 Nov 23 j 13:12	11°♁11'47	6.27158 AU	minimum elong		1384 May 21 j 01:38	7°♁54'30	0°29'39
				max. Earth dist.		1384 May 23 j 06:00	8°♁24'49	6.09985 AU
conjunction	1378 Nov 25 j 12:42	11°♁38'47	0°25'57	morning rise		1384 Jun 03 j 20:48	11°♁05'35	
minimum elong	1378 Nov 25 j 12:44	11°♁38'48	0°25'56			1384 Sep 27 j 07:51	0°♁	
morning rise	1378 Dec 08 j 03:39	14°♁30'45		retrograde		1384 Oct 09 j 17:22	0°♁15'14	
	1379 Feb 28 j 11:38	0°♁				1384 Oct 22 j 00:13	30°♁♁	
retrograde	1379 Apr 11 j 19:42	2°♁40'33		min. Earth dist.		1384 Dec 07 j 02:04	25°♁21'11	4.16827 AU

opposition	1384 Dec 08 j 07:01	25°II11'22	0°-15'-35	retrograde	1390 Mar 13 j 09:00	4°♁54'30	
direct	1385 Feb 05 j 11:54	20°II11'05		opposition	1390 May 13 j 07:02	0°♁02'29	0°55'43
asc. node	1385 Mar 26 j 02:30	23°II46'18			1390 May 13 j 14:50	30°R♄	
	1385 May 01 j 19:45	0°♁		min. Earth dist.	1390 May 14 j 19:22	29°♄50'54	4.31990 AU
evening set	1385 Jun 12 j 04:32	8°♁47'00		direct	1390 Jul 14 j 12:31	25°♄03'22	
					1390 Sep 11 j 21:34	0°♁	
conjunction	1385 Jun 25 j 21:41	11°♁51'14	0°08'56	evening set	1390 Nov 17 j 02:52	13°♁10'22	
minimum elong	1385 Jun 25 j 21:41	11°♁51'14	0°08'56	max. Earth dist.	1390 Nov 27 j 20:24	15°♁36'47	6.25386 AU
behind sun begin	1385 Jun 25 j 14:36	11°♁47'17					
behind sun end	1385 Jun 26 j 04:46	11°♁55'11		conjunction	1390 Nov 29 j 18:42	16°♁03'13	0°21'10
max. Earth dist.	1385 Jun 27 j 10:52	12°♁12'05	6.23948 AU	minimum elong	1390 Nov 29 j 18:44	16°♁03'14	0°21'09
morning rise	1385 Jul 09 j 14:03	14°♁54'49		morning rise	1390 Dec 12 j 09:45	18°♁56'00	
	1385 Sep 27 j 21:52	0°♄			1391 Feb 03 j 07:09	0°♁	
retrograde	1385 Nov 10 j 20:50	2°♄57'34		retrograde	1391 Apr 16 j 12:12	7°♁14'22	
	1385 Dec 24 j 21:00	30°R♁		opposition	1391 Jun 16 j 09:03	2°♁20'55	0°03'24
opposition	1386 Jan 09 j 16:21	27°♁56'56	0°39'35	min. Earth dist.	1391 Jun 17 j 14:10	2°♁11'35	4.18228 AU
min. Earth dist.	1386 Jan 09 j 00:15	28°♁02'19	4.30599 AU		1391 Jul 05 j 10:48	30°R♁	
direct	1386 Mar 11 j 04:24	22°♁54'39		desc. node	1391 Jul 09 j 20:44	29°♁31'11	
	1386 May 22 j 13:42	0°♄		direct	1391 Aug 16 j 11:21	27°♁24'24	
evening set	1386 Jul 16 j 03:59	10°♄56'36			1391 Sep 26 j 18:47	0°♁	
				evening set	1391 Dec 19 j 17:08	16°♁07'24	
conjunction	1386 Jul 29 j 15:12	13°♄53'04	0°43'01	max. Earth dist.	1391 Dec 31 j 04:26	18°♁49'02	6.11203 AU
minimum elong	1386 Jul 29 j 15:10	13°♄53'03	0°43'00				
max. Earth dist.	1386 Jul 30 j 00:37	13°♄58'13	6.36458 AU	conjunction	1392 Jan 01 j 10:54	19°♁06'59	0°-17'-13
	1386 Aug 03 j 17:33	15°♄		minimum elong	1392 Jan 01 j 10:53	19°♁06'58	0°17'13
morning rise	1386 Aug 12 j 00:18	16°♄48'18		morning rise	1392 Jan 14 j 05:47	22°♁07'21	
	1386 Oct 20 j 11:55	0°♄			1392 Feb 18 j 06:44	0°≈	
retrograde	1386 Dec 11 j 14:35	4°♄00'28		retrograde	1392 May 21 j 23:20	11°≈33'57	
	1387 Feb 02 j 11:44	30°R♄		opposition	1392 Jul 21 j 12:16	6°≈37'31	0°-53'-34
opposition	1387 Feb 09 j 16:45	29°♄03'36	1°20'13	min. Earth dist.	1392 Jul 21 j 23:20	6°≈33'54	4.04742 AU
min. Earth dist.	1387 Feb 09 j 19:33	29°♄02'41	4.40964 AU	direct	1392 Sep 19 j 03:45	1°≈43'11	
direct	1387 Apr 12 j 11:30	24°♄00'34			1392 Dec 27 j 08:25	15°≈	
	1387 Jun 18 j 08:16	0°♄		evening set	1393 Jan 22 j 07:47	21°≈02'51	
evening set	1387 Aug 17 j 08:36	11°♄39'52					
				conjunction	1393 Feb 04 j 06:42	24°≈09'39	0°-51'-9
conjunction	1387 Aug 30 j 12:07	14°♄30'12	1°03'41	minimum elong	1393 Feb 04 j 06:40	24°≈09'38	0°51'09
minimum elong	1387 Aug 30 j 12:06	14°♄30'11	1°03'41	max. Earth dist.	1393 Feb 04 j 06:47	24°≈09'42	5.99658 AU
max. Earth dist.	1387 Aug 29 j 18:38	14°♄20'44	6.43843 AU	morning rise	1393 Feb 17 j 07:49	27°≈17'52	
morning rise	1387 Sep 12 j 12:43	17°♄19'05			1393 Feb 28 j 17:21	0°♁	
	1387 Nov 18 j 15:34	0°♄		retrograde	1393 Jun 29 j 00:11	17°♁41'22	
retrograde	1388 Jan 10 j 17:17	4°♄06'36		opposition	1393 Aug 28 j 02:01	12°♁41'03	-1°-33'-23
	1388 Mar 05 j 01:50	30°R♄		min. Earth dist.	1393 Aug 27 j 15:05	12°♁44'42	3.96411 AU
opposition	1388 Mar 11 j 04:47	29°♄12'46	1°37'46	direct	1393 Oct 25 j 11:14	7°♁47'32	
min. Earth dist.	1388 Mar 12 j 00:08	29°♄06'31	4.45048 AU	evening set	1394 Feb 27 j 20:57	27°♁28'51	
direct	1388 May 12 j 17:51	24°♄10'10			1394 Mar 10 j 07:24	0°♁	
	1388 Jul 18 j 00:53	0°♄					
evening set	1388 Sep 16 j 08:27	11°♄42'25		conjunction	1394 Mar 13 j 03:08	0°♁40'58	-1°-6'-33
max. Earth dist.	1388 Sep 27 j 14:59	14°♄09'04	6.44243 AU	minimum elong	1394 Mar 13 j 03:07	0°♁40'58	1°06'34
				max. Earth dist.	1394 Mar 14 j 10:24	0°♁59'52	5.95265 AU
conjunction	1388 Sep 29 j 05:12	14°♄29'51	1°06'42	morning rise	1394 Mar 26 j 12:37	3°♁54'48	
minimum elong	1388 Sep 29 j 05:13	14°♄29'52	1°06'41	retrograde	1394 Aug 05 j 23:22	24°♁34'45	
morning rise	1388 Oct 11 j 23:11	17°♄16'03		min. Earth dist.	1394 Oct 03 j 11:17	19°♁40'59	3.96614 AU
	1388 Dec 18 j 00:58	0°♄		opposition	1394 Oct 04 j 17:01	19°♁30'55	-1°-36'-44
retrograde	1389 Feb 09 j 08:17	4°♄07'12		direct	1394 Dec 01 j 13:08	14°♁35'58	
	1389 Apr 05 j 05:21	30°R♄			1395 Mar 19 j 09:05	0°♁	
opposition	1389 Apr 11 j 02:41	29°♄15'06	1°29'14	evening set	1395 Apr 06 j 10:05	4°♁12'31	
min. Earth dist.	1389 Apr 12 j 11:09	29°♄04'45	4.41809 AU				
direct	1389 Jun 12 j 20:38	24°♄13'53		conjunction	1395 Apr 20 j 00:06	7°♁26'03	0°-55'-50
	1389 Aug 17 j 09:45	0°♄		minimum elong	1395 Apr 20 j 00:09	7°♁26'05	0°55'51
evening set	1389 Oct 16 j 23:12	11°♄55'44		max. Earth dist.	1395 Apr 22 j 04:26	7°♁57'11	5.99960 AU
max. Earth dist.	1389 Oct 27 j 13:35	14°♄16'16	6.37535 AU	morning rise	1395 May 03 j 16:46	10°♁40'48	
					1395 May 22 j 08:08	15°♁	
conjunction	1389 Oct 29 j 15:50	14°♄44'08	0°51'33		1395 Aug 20 j 16:22	0°♁	
minimum elong	1389 Oct 29 j 15:52	14°♄44'09	0°51'33	retrograde	1395 Sep 11 j 09:21	0°II46'15	
	1389 Oct 30 j 20:27	15°♄			1395 Oct 02 j 21:29	30°R♁	
morning rise	1389 Nov 11 j 06:42	17°♄31'49		min. Earth dist.	1395 Nov 08 j 11:58	25°♁52'53	4.05251 AU
	1390 Jan 13 j 19:14	0°♁		opposition	1395 Nov 09 j 22:32	25°♁41'05	-1°-2'-15

direct	1396 Jan 07 j 05:17	20°♄43'14		min. Earth dist.	1401 Apr 16 j 22:39	3°♍28'38	4.40801 AU
	1396 Mar 28 j 03:22	0°♂			1401 May 17 j 18:39	30°♌♁	
evening set	1396 May 12 j 13:24	9°♂51'25		direct	1401 Jun 17 j 06:11	28°♁38'14	
					1401 Jul 17 j 20:03	0°♍	
conjunction	1396 May 26 j 07:40	13°♂01'30	0°-24'-18		1401 Oct 15 j 00:20	15°♍	
minimum elong	1396 May 26 j 07:42	13°♂01'31	0°24'19	evening set	1401 Oct 21 j 07:14	16°♍22'45	
max. Earth dist.	1396 May 28 j 12:51	13°♂32'08	6.11733 AU	max. Earth dist.	1401 Oct 31 j 22:00	18°♍43'57	6.36061 AU
morning rise	1396 Jun 09 j 02:50	16°♂11'47					
	1396 Aug 16 j 04:23	0°♄		conjunction	1401 Nov 02 j 23:40	19°♍11'36	0°48'02
retrograde	1396 Oct 14 j 10:02	5°♄11'40		minimum elong	1401 Nov 02 j 23:42	19°♍11'37	0°48'02
min. Earth dist.	1396 Dec 11 j 20:17	0°♄17'52	4.18833 AU	morning rise	1401 Nov 15 j 14:12	21°♍59'46	
opposition	1396 Dec 13 j 01:05	0°♄08'06	0°-7'-16		1401 Dec 23 j 12:54	0°♄	
	1396 Dec 14 j 01:02	30°♌♂		retrograde	1402 Mar 18 j 00:58	9°♄29'06	
asc. node	1397 Feb 01 j 12:15	25°♂15'19		opposition	1402 May 17 j 23:18	4°♄37'01	0°49'12
direct	1397 Feb 10 j 09:28	25°♂07'27		min. Earth dist.	1402 May 19 j 11:50	4°♄25'23	4.30128 AU
	1397 Apr 09 j 01:17	0°♄			1402 Jul 03 j 15:51	30°♌♍	
evening set	1397 Jun 17 j 04:01	13°♄37'46		direct	1402 Jul 19 j 02:12	29°♍38'14	
					1402 Aug 03 j 11:48	0°♄	
conjunction	1397 Jun 30 j 20:26	16°♄40'49	0°14'21	evening set	1402 Nov 21 j 14:59	17°♄50'09	
minimum elong	1397 Jun 30 j 20:25	16°♄40'48	0°14'22	max. Earth dist.	1402 Dec 02 j 08:22	20°♄17'15	6.23287 AU
behind sun begin	1397 Jun 30 j 16:54	16°♄38'51					
behind sun end	1397 Jun 30 j 23:57	16°♄42'46		conjunction	1402 Dec 04 j 06:49	20°♄43'54	0°15'58
max. Earth dist.	1397 Jul 02 j 05:19	16°♄59'10	6.26014 AU	minimum elong	1402 Dec 04 j 06:50	20°♄43'54	0°15'58
morning rise	1397 Jul 14 j 12:04	19°♄43'08		behind sun begin	1402 Dec 04 j 05:14	20°♄43'00	
	1397 Sep 02 j 10:58	0°♌		behind sun end	1402 Dec 04 j 08:25	20°♄44'48	
retrograde	1397 Nov 15 j 08:14	7°♌36'51		morning rise	1402 Dec 16 j 22:23	23°♄37'43	
opposition	1398 Jan 14 j 04:21	2°♌36'40	0°46'34		1403 Jan 14 j 17:41	0°♄	
min. Earth dist.	1398 Jan 13 j 15:22	2°♌41'00	4.32516 AU	retrograde	1403 Apr 21 j 13:04	12°♄05'50	
	1398 Feb 03 j 19:58	30°♌♂		desc. node	1403 May 18 j 22:33	10°♄56'52	
direct	1398 Mar 15 j 22:28	27°♄34'08		opposition	1403 Jun 21 j 08:51	7°♄12'00	0°-4'-51
	1398 Apr 25 j 10:54	0°♌		min. Earth dist.	1403 Jun 22 j 11:48	7°♄03'20	4.16037 AU
	1398 Jul 18 j 10:18	15°♌		direct	1403 Aug 21 j 06:17	2°♄15'47	
evening set	1398 Jul 20 j 20:11	15°♌31'18		evening set	1403 Dec 24 j 11:49	21°♄04'54	
				max. Earth dist.	1404 Jan 05 j 04:39	23°♄50'27	6.09134 AU
conjunction	1398 Aug 03 j 06:27	18°♌26'41	0°46'55				
minimum elong	1398 Aug 03 j 06:25	18°♌26'40	0°46'55	conjunction	1404 Jan 06 j 06:20	24°♄05'38	0°-22'-38
max. Earth dist.	1398 Aug 03 j 13:01	18°♌30'16	6.38057 AU	minimum elong	1404 Jan 06 j 06:18	24°♄05'37	0°22'40
morning rise	1398 Aug 16 j 14:11	21°♌20'43		morning rise	1404 Jan 19 j 01:49	27°♄07'13	
	1398 Sep 27 j 21:56	0°♎			1404 Jan 31 j 10:43	0°♎	
retrograde	1398 Dec 15 j 19:54	8°♎27'04			1404 Apr 23 j 20:31	15°♎	
opposition	1399 Feb 14 j 00:46	3°♎30'40	1°24'13	retrograde	1404 May 27 j 08:43	16°♎43'52	
min. Earth dist.	1399 Feb 14 j 05:15	3°♎29'12	4.42147 AU		1404 Jun 29 j 21:19	15°♌♎	
	1399 Mar 15 j 20:54	30°♌♌		opposition	1404 Jul 26 j 19:08	11°♎46'58	-1°00'-51
direct	1399 Apr 16 j 22:26	28°♌27'36		min. Earth dist.	1404 Jul 27 j 03:37	11°♎44'11	4.03012 AU
	1399 May 19 j 09:52	0°♎		direct	1404 Sep 24 j 05:34	6°♎52'55	
evening set	1399 Aug 21 j 19:20	16°♎04'19			1404 Dec 07 j 15:51	15°♎	
				evening set	1405 Jan 27 j 10:22	26°♎17'24	
conjunction	1399 Sep 03 j 21:40	18°♎53'55	1°05'13				
minimum elong	1399 Sep 03 j 21:39	18°♎53'54	1°05'12	conjunction	1405 Feb 09 j 10:02	29°♎25'08	0°-54'-46
max. Earth dist.	1399 Sep 03 j 00:06	18°♎42'15	6.44510 AU	minimum elong	1405 Feb 09 j 10:00	29°♎25'06	0°54'47
morning rise	1399 Sep 16 j 21:12	21°♎42'06		max. Earth dist.	1405 Feb 09 j 13:49	29°♎27'25	5.98431 AU
	1399 Oct 27 j 15:58	0°♁			1405 Feb 11 j 19:48	0°♁	
retrograde	1400 Jan 15 j 00:20	8°♁27'53		morning rise	1405 Feb 22 j 12:24	2°♁34'24	
opposition	1400 Mar 15 j 12:33	3°♁34'24	1°38'07	retrograde	1405 Jul 04 j 10:01	23°♁03'28	
min. Earth dist.	1400 Mar 16 j 11:03	3°♁27'10	4.45163 AU	opposition	1405 Sep 02 j 11:33	18°♁02'34	-1°-36'-21
	1400 Apr 15 j 12:28	30°♌♎		min. Earth dist.	1405 Sep 01 j 20:16	18°♁07'41	3.95877 AU
direct	1400 May 17 j 04:35	28°♎31'54		direct	1405 Oct 30 j 17:02	13°♁09'00	
	1400 Jun 18 j 01:10	0°♁			1406 Feb 21 j 05:10	0°♎	
evening set	1400 Sep 20 j 16:02	16°♁04'05		evening set	1406 Mar 05 j 04:49	2°♎51'13	
max. Earth dist.	1400 Oct 01 j 18:34	18°♁28'47	6.43779 AU				
conjunction	1400 Oct 03 j 12:04	18°♁51'24	1°05'36	conjunction	1406 Mar 18 j 12:11	6°♎03'46	-1°-6'-38
minimum elong	1400 Oct 03 j 12:05	18°♁51'24	1°05'36	minimum elong	1406 Mar 18 j 12:11	6°♎03'46	1°06'38
morning rise	1400 Oct 16 j 05:27	21°♁37'32		max. Earth dist.	1406 Mar 20 j 00:30	6°♎25'43	5.95481 AU
	1400 Nov 26 j 01:34	0°♍		morning rise	1406 Mar 31 j 22:40	9°♎17'58	
retrograde	1401 Feb 13 j 17:31	8°♍31'19		retrograde	1406 Aug 11 j 07:06	29°♎55'21	
opposition	1401 Apr 15 j 13:17	3°♍39'17	1°25'54	opposition	1406 Oct 09 j 23:28	24°♎51'06	-1°-33'-51
				min. Earth dist.	1406 Oct 08 j 16:42	25°♎01'33	3.97559 AU

direct	1406 Dec 06 j 20:53	19°♃55'47		conjunction	1412 Oct 07 j 18:22	23°♁11'52	1°04'10
	1407 Feb 28 j 11:37	0°♄		minimum elong	1412 Oct 07 j 18:23	23°♁11'53	1°04'10
evening set	1407 Apr 11 j 17:49	9°♃28'31		morning rise	1412 Oct 20 j 11:12	25°♁58'11	
					1412 Nov 08 j 08:04	0°♃	
conjunction	1407 Apr 25 j 08:43	12°♃41'44	0°-52'-21	retrograde	1413 Feb 18 j 05:05	12°♃56'21	
minimum elong	1407 Apr 25 j 08:46	12°♃41'45	0°52'22	opposition	1413 Apr 20 j 00:28	8°♃04'30	1°22'06
max. Earth dist.	1407 Apr 27 j 15:43	13°♃14'16	6.01533 AU	min. Earth dist.	1413 Apr 21 j 11:40	7°♃53'17	4.39342 AU
	1407 May 05 j 02:45	15°♄		direct	1413 Jun 21 j 16:55	3°♃03'47	
morning rise	1407 May 09 j 02:01	15°♄56'00			1413 Sep 28 j 06:52	15°♃	
	1407 Jul 15 j 04:31	0°♂		evening set	1413 Oct 25 j 16:08	20°♃52'25	
retrograde	1407 Sep 16 j 07:43	5°♂52'09		max. Earth dist.	1413 Nov 05 j 05:23	23°♃13'27	6.34222 AU
min. Earth dist.	1407 Nov 13 j 10:19	0°♂59'00	4.07269 AU				
opposition	1407 Nov 14 j 21:23	0°♂47'03	0°-55'-10	conjunction	1413 Nov 07 j 08:21	23°♃41'56	0°44'14
	1407 Nov 20 j 16:06	30°♃		minimum elong	1413 Nov 07 j 08:23	23°♃41'57	0°44'13
direct	1408 Jan 12 j 06:16	25°♃48'48		morning rise	1413 Nov 19 j 22:59	26°♃30'53	
	1408 Mar 04 j 07:54	0°♂			1413 Dec 05 j 20:17	0°♄	
evening set	1408 May 17 j 16:07	14°♂50'36		retrograde	1414 Mar 22 j 19:09	14°♄08'15	
				opposition	1414 May 22 j 17:29	9°♄16'01	0°42'18
conjunction	1408 May 31 j 10:16	17°♂59'39	0°-18'-57	min. Earth dist.	1414 May 24 j 04:28	9°♄04'52	4.28031 AU
minimum elong	1408 May 31 j 10:17	17°♂59'40	0°18'58	direct	1414 Jul 23 j 15:50	4°♄17'37	
max. Earth dist.	1408 Jun 02 j 12:06	18°♂28'13	6.13994 AU	evening set	1414 Nov 26 j 04:41	22°♄35'12	
morning rise	1408 Jun 14 j 05:19	21°♂08'48		max. Earth dist.	1414 Dec 07 j 02:07	25°♄05'18	6.21124 AU
	1408 Jul 25 j 06:00	0°♅					
retrograde	1408 Oct 18 j 23:42	9°♅57'53		conjunction	1414 Dec 08 j 20:50	25°♄29'56	0°10'37
asc. node	1408 Dec 12 j 07:43	5°♅37'51		minimum elong	1414 Dec 08 j 20:51	25°♄29'56	0°10'37
opposition	1408 Dec 17 j 15:39	4°♅54'42	0°00'46	behind sun begin	1414 Dec 08 j 14:38	25°♄26'22	
min. Earth dist.	1408 Dec 16 j 13:17	5°♅03'37	4.21104 AU	behind sun end	1414 Dec 09 j 03:05	25°♄33'31	
	1409 Feb 07 j 05:46	30°♃		morning rise	1414 Dec 21 j 12:41	28°♄24'49	
direct	1409 Feb 15 j 05:44	29°♂53'40			1414 Dec 28 j 11:37	0°♄	
	1409 Feb 23 j 06:07	0°♅		desc. node	1415 Mar 27 j 19:42	15°♄40'42	
evening set	1409 Jun 21 j 23:23	18°♅17'58		retrograde	1415 Apr 26 j 17:00	17°♄02'55	
				opposition	1415 Jun 26 j 10:54	12°♄08'47	0°-13'-12
conjunction	1409 Jul 05 j 15:15	21°♅19'50	0°19'31	min. Earth dist.	1415 Jun 27 j 12:00	12°♄00'42	4.13974 AU
minimum elong	1409 Jul 05 j 15:13	21°♅19'49	0°19'30	direct	1415 Aug 26 j 03:38	7°♄13'00	
max. Earth dist.	1409 Jul 06 j 21:35	21°♅36'42	6.28119 AU	evening set	1415 Dec 29 j 08:31	26°♄07'33	
morning rise	1409 Jul 19 j 05:43	24°♅20'49		max. Earth dist.	1416 Jan 10 j 04:46	28°♄55'49	6.07356 AU
	1409 Aug 14 j 14:24	0°♆					
retrograde	1409 Nov 19 j 15:04	12°♆06'01		conjunction	1416 Jan 11 j 03:28	29°♄09'17	0°-27'-58
opposition	1410 Jan 18 j 12:38	7°♆06'26	0°53'01	minimum elong	1416 Jan 11 j 03:26	29°♄09'16	0°27'59
min. Earth dist.	1410 Jan 18 j 01:46	7°♆10'03	4.34296 AU		1416 Jan 14 j 16:54	0°♇	
direct	1410 Mar 20 j 10:35	2°♆03'47		morning rise	1416 Jan 23 j 23:55	2°♇12'01	
	1410 Jul 01 j 22:36	15°♆			1416 Mar 23 j 16:01	15°♇	
evening set	1410 Jul 25 j 08:57	19°♆57'02		retrograde	1416 Jun 01 j 15:48	21°♇57'16	
				opposition	1416 Aug 01 j 02:37	16°♇59'47	-1°-7'-41
conjunction	1410 Aug 07 j 17:59	22°♆51'25	0°50'26	min. Earth dist.	1416 Aug 01 j 06:34	16°♇58'29	4.01705 AU
minimum elong	1410 Aug 07 j 17:56	22°♆51'24	0°50'27		1416 Aug 16 j 19:13	15°♇	
max. Earth dist.	1410 Aug 07 j 18:33	22°♆51'44	6.39364 AU	direct	1416 Sep 29 j 07:46	12°♇05'56	
morning rise	1410 Aug 21 j 00:42	25°♆44'29			1416 Nov 10 j 22:54	15°♇	
	1410 Sep 10 j 02:39	0°♈		evening set	1417 Jan 26 j 00:48	0°♈	
retrograde	1410 Dec 20 j 01:46	12°♈46'30			1417 Feb 01 j 13:30	1°♈33'35	
opposition	1411 Feb 18 j 06:39	7°♈50'37	1°27'39				
min. Earth dist.	1411 Feb 18 j 14:59	7°♈47'54	4.42919 AU	conjunction	1417 Feb 14 j 14:11	4°♈42'04	0°-57'-57
direct	1411 Apr 21 j 08:20	2°♈47'33		minimum elong	1417 Feb 14 j 14:09	4°♈42'02	0°57'58
evening set	1411 Aug 26 j 03:23	20°♈23'06		max. Earth dist.	1417 Feb 14 j 23:53	4°♈47'55	5.97709 AU
max. Earth dist.	1411 Sep 07 j 04:32	22°♈59'06	6.44679 AU	morning rise	1417 Feb 27 j 17:29	7°♈52'05	
				retrograde	1417 Jul 09 j 20:37	28°♈24'21	
conjunction	1411 Sep 08 j 04:54	23°♈12'17	1°06'22	opposition	1417 Sep 07 j 20:03	23°♈22'53	-1°-38'-28
minimum elong	1411 Sep 08 j 04:53	23°♈12'16	1°06'21	min. Earth dist.	1417 Sep 07 j 02:44	23°♈28'40	3.95819 AU
morning rise	1411 Sep 21 j 03:21	26°♈00'00		direct	1417 Nov 05 j 00:38	18°♈29'09	
	1411 Oct 10 j 01:39	0°♁			1418 Feb 03 j 00:18	0°♃	
retrograde	1412 Jan 19 j 05:10	12°♁46'00		evening set	1418 Mar 10 j 11:19	8°♃10'32	
opposition	1412 Mar 19 j 19:16	7°♁52'50	1°37'59				
min. Earth dist.	1412 Mar 20 j 19:05	7°♁45'11	4.44751 AU	conjunction	1418 Mar 23 j 19:48	11°♃23'19	-1°-6'-9
direct	1412 May 21 j 11:05	2°♁50'32		minimum elong	1418 Mar 23 j 19:48	11°♃23'19	1°06'10
evening set	1412 Sep 24 j 23:03	20°♁24'27		max. Earth dist.	1418 Mar 25 j 12:17	11°♃47'42	5.96070 AU
max. Earth dist.	1412 Oct 05 j 22:59	22°♁48'09	6.42815 AU	morning rise	1418 Apr 06 j 07:22	14°♃37'42	
					1418 Jun 18 j 12:35	0°♄	

retrograde	1418 Aug 16 j 11:04	5°♄10'50		direct	1424 May 25 j 20:59	7°♃11'51	
min. Earth dist.	1418 Oct 13 j 18:48	0°♄17'21	3.98744 AU	evening set	1424 Sep 29 j 06:57	24°♃47'33	
opposition	1418 Oct 15 j 03:17	0°♄06'19	-1°-30'-14	max. Earth dist.	1424 Oct 10 j 05:15	27°♃10'45	6.41803 AU
	1418 Oct 15 j 21:53	30°♄					
direct	1418 Dec 12 j 00:25	25°♄10'39		conjunction	1424 Oct 12 j 01:50	27°♃35'10	1°02'21
	1419 Feb 05 j 10:35	0°♄		minimum elong	1424 Oct 12 j 01:51	27°♃35'11	1°02'20
evening set	1419 Apr 16 j 23:25	14°♄39'07			1424 Oct 23 j 02:19	0°♃	
	1419 Apr 18 j 11:02	15°♄		morning rise	1424 Oct 24 j 18:07	0°♃21'42	
					1425 Jan 13 j 15:01	15°♃	
conjunction	1419 Apr 30 j 14:55	17°♄51'51	0°-48'-30	retrograde	1425 Feb 22 j 16:38	17°♃24'23	
minimum elong	1419 Apr 30 j 14:57	17°♄51'53	0°48'30		1425 Apr 04 j 06:45	15°♃	
max. Earth dist.	1419 May 02 j 20:54	18°♄23'40	6.03183 AU	opposition	1425 Apr 24 j 13:21	12°♃32'34	1°17'47
morning rise	1419 May 14 j 08:53	21°♄05'36		min. Earth dist.	1425 Apr 25 j 23:53	12°♃21'33	4.37950 AU
	1419 Jun 23 j 09:53	0°♃		direct	1425 Jun 26 j 02:43	7°♃32'13	
retrograde	1419 Sep 21 j 03:08	10°♃52'32			1425 Sep 09 j 06:58	15°♃	
min. Earth dist.	1419 Nov 18 j 07:21	5°♃59'11	4.09192 AU	evening set	1425 Oct 30 j 02:02	25°♃24'26	
opposition	1419 Nov 19 j 17:29	5°♃47'32	0°-47'-50	max. Earth dist.	1425 Nov 09 j 16:29	27°♃46'42	6.32579 AU
direct	1420 Jan 17 j 06:44	0°♃48'49					
evening set	1420 May 22 j 16:43	19°♃45'00		conjunction	1425 Nov 11 j 18:01	28°♃14'30	0°40'08
				minimum elong	1425 Nov 11 j 18:02	28°♃14'31	0°40'07
conjunction	1420 Jun 05 j 11:02	22°♃53'09	0°-13'-33		1425 Nov 19 j 13:57	0°♃	
minimum elong	1420 Jun 05 j 11:02	22°♃53'10	0°13'34	morning rise	1425 Nov 24 j 08:35	1°♃04'06	
behind sun begin	1420 Jun 05 j 06:38	22°♃50'40		retrograde	1426 Mar 27 j 15:43	18°♃48'50	
behind sun end	1420 Jun 05 j 15:26	22°♃55'40		opposition	1426 May 27 j 12:49	13°♃56'29	0°35'05
max. Earth dist.	1420 Jun 07 j 11:39	23°♃20'54	6.16052 AU	min. Earth dist.	1426 May 28 j 23:26	13°♃45'26	4.26243 AU
morning rise	1420 Jun 19 j 05:36	26°♃01'12		direct	1426 Jul 28 j 08:31	8°♃58'31	
	1420 Jul 07 j 02:52	0°♃		evening set	1426 Nov 30 j 18:51	27°♃20'26	
asc. node	1420 Oct 22 j 07:51	14°♃40'21		max. Earth dist.	1426 Dec 11 j 18:10	29°♃52'16	6.19357 AU
retrograde	1420 Oct 23 j 12:47	14°♃40'29			1426 Dec 12 j 07:32	0°♃	
min. Earth dist.	1420 Dec 21 j 04:14	9°♃45'59	4.23096 AU				
opposition	1420 Dec 22 j 04:36	9°♃37'46	0°08'41	conjunction	1426 Dec 13 j 11:10	0°♃15'59	0°05'13
direct	1421 Feb 19 j 22:57	4°♃36'27		minimum elong	1426 Dec 13 j 11:11	0°♃15'59	0°05'13
evening set	1421 Jun 26 j 17:39	22°♃55'49		behind sun begin	1426 Dec 13 j 03:26	0°♃11'32	
				behind sun end	1426 Dec 13 j 18:55	0°♃20'27	
conjunction	1421 Jul 10 j 08:39	25°♃56'36	0°24'30	morning rise	1426 Dec 26 j 03:32	3°♃11'49	
minimum elong	1421 Jul 10 j 08:37	25°♃56'35	0°24'30	desc. node	1427 Feb 04 j 09:33	11°♃59'46	
max. Earth dist.	1421 Jul 11 j 09:38	26°♃10'26	6.29882 AU	retrograde	1427 May 01 j 17:55	21°♃58'22	
morning rise	1421 Jul 23 j 22:22	28°♃56'28		opposition	1427 Jul 01 j 12:19	17°♃03'49	0°-21'-23
	1421 Jul 28 j 18:26	0°♃		min. Earth dist.	1427 Jul 02 j 09:37	16°♃56'56	4.12378 AU
	1421 Oct 23 j 05:37	15°♃		direct	1427 Aug 30 j 23:23	12°♃08'24	
retrograde	1421 Nov 23 j 22:35	16°♃34'31			1427 Dec 29 j 10:38	0°♃	
	1421 Dec 25 j 11:13	15°♃		evening set	1428 Jan 03 j 04:09	1°♃06'46	
opposition	1422 Jan 22 j 20:53	11°♃35'26	0°59'08				
min. Earth dist.	1422 Jan 22 j 13:04	11°♃38'01	4.35716 AU	conjunction	1428 Jan 15 j 23:42	4°♃09'18	0°-32'-59
direct	1422 Mar 24 j 23:02	6°♃32'35		minimum elong	1428 Jan 15 j 23:40	4°♃09'17	0°33'00
	1422 Jun 13 j 14:12	15°♃		max. Earth dist.	1428 Jan 15 j 06:18	3°♃58'56	6.06074 AU
evening set	1422 Jul 29 j 21:25	24°♃22'55		morning rise	1428 Jan 28 j 20:47	7°♃12'53	
					1428 Mar 03 j 02:09	15°♃	
conjunction	1422 Aug 12 j 05:34	27°♃16'30	0°53'40	retrograde	1428 Jun 06 j 23:02	27°♃04'53	
minimum elong	1422 Aug 12 j 05:32	27°♃16'29	0°53'40	opposition	1428 Aug 06 j 08:02	22°♃06'51	-1°-13'-48
max. Earth dist.	1422 Aug 12 j 03:26	27°♃15'21	6.40339 AU	min. Earth dist.	1428 Aug 06 j 09:40	22°♃06'19	4.00864 AU
	1422 Aug 24 j 18:53	0°♃		direct	1428 Oct 04 j 10:33	17°♃13'08	
morning rise	1422 Aug 25 j 10:57	0°♃08'41			1429 Jan 08 j 19:08	0°♃	
retrograde	1422 Dec 24 j 06:49	17°♃07'22		evening set	1429 Feb 06 j 14:08	6°♃42'21	
opposition	1423 Feb 22 j 13:08	12°♃11'56	1°30'39				
min. Earth dist.	1423 Feb 22 j 23:23	12°♃08'36	4.43411 AU	conjunction	1429 Feb 19 j 15:42	9°♃51'22	-1°00'-33
direct	1423 Apr 25 j 16:44	7°♃08'56		minimum elong	1429 Feb 19 j 15:40	9°♃51'21	1°00'35
evening set	1423 Aug 30 j 12:29	24°♃43'59		max. Earth dist.	1429 Feb 20 j 05:44	9°♃59'51	5.97372 AU
max. Earth dist.	1423 Sep 11 j 08:06	27°♃17'09	6.44640 AU	morning rise	1429 Mar 04 j 20:03	13°♃02'00	
					1429 May 27 j 10:44	0°♃	
conjunction	1423 Sep 12 j 12:54	27°♃32'45	1°07'09	retrograde	1429 Jul 15 j 01:54	3°♃35'45	
minimum elong	1423 Sep 12 j 12:53	27°♃32'45	1°07'09		1429 Sep 02 j 03:54	30°♃	
	1423 Sep 23 j 21:07	0°♃		min. Earth dist.	1429 Sep 12 j 04:17	28°♃40'36	3.96062 AU
morning rise	1423 Sep 25 j 10:35	0°♃20'10		opposition	1429 Sep 13 j 00:30	28°♃33'49	-1°-39'-40
retrograde	1424 Jan 23 j 14:00	17°♃06'52		direct	1429 Nov 10 j 02:14	23°♃39'58	
opposition	1424 Mar 24 j 03:39	12°♃14'00	1°37'18		1430 Jan 13 j 03:54	0°♃	
min. Earth dist.	1424 Mar 25 j 06:13	12°♃05'28	4.44206 AU	evening set	1430 Mar 15 j 14:31	13°♃19'52	

conjunction	1430 Mar 28 j 23:54	16° Υ 32'44	-1°-5'-9	retrograde	1436 Jan 27 j 20:32	21° Ω 28'15	
minimum elong	1430 Mar 28 j 23:55	16° Υ 32'44	1°05'10	opposition	1436 Mar 28 j 11:56	16° Ω 35'35	1°36'02
max. Earth dist.	1430 Mar 30 j 17:37	16° Υ 57'48	5.96836 AU	min. Earth dist.	1436 Mar 29 j 15:04	16° Ω 26'53	4.43691 AU
morning rise	1430 Apr 11 j 12:32	19° Υ 47'12		direct	1436 May 30 j 04:42	11° Ω 33'40	
	1430 May 26 j 22:48	0° Υ		evening set	1436 Oct 03 j 14:27	29° Ω 10'41	
retrograde	1430 Aug 21 j 10:04	10° Υ 15'36			1436 Oct 07 j 08:50	0° \mathbb{M}	
min. Earth dist.	1430 Oct 18 j 17:34	5° Υ 22'07	3.99945 AU	max. Earth dist.	1436 Oct 14 j 10:07	1° \mathbb{M} 32'51	6.40907 AU
opposition	1430 Oct 20 j 02:33	5° Υ 10'53	-1°-26'-3				
direct	1430 Dec 17 j 01:12	0° Υ 14'49		conjunction	1436 Oct 16 j 08:35	1° \mathbb{M} 58'23	1°00'10
	1431 Apr 01 j 18:31	15° Υ		minimum elong	1436 Oct 16 j 08:37	1° \mathbb{M} 58'24	1°00'09
evening set	1431 Apr 22 j 01:04	19° Υ 39'28		morning rise	1436 Oct 29 j 00:33	4° \mathbb{M} 45'06	
					1436 Dec 18 j 18:33	15° \mathbb{M}	
conjunction	1431 May 05 j 17:25	22° Υ 51'52	0°-44'-26	retrograde	1437 Feb 27 j 05:46	21° \mathbb{M} 51'45	
minimum elong	1431 May 05 j 17:28	22° Υ 51'53	0°44'28	opposition	1437 Apr 29 j 01:43	16° \mathbb{M} 59'54	1°12'59
max. Earth dist.	1431 May 08 j 00:24	23° Υ 24'07	6.04721 AU	min. Earth dist.	1437 Apr 30 j 13:33	16° \mathbb{M} 48'29	4.36694 AU
morning rise	1431 May 19 j 11:41	26° Υ 05'03			1437 May 15 j 04:54	15° $\mathbb{R}\mathbb{M}$	
	1431 Jun 05 j 13:56	0° \mathbb{I}		direct	1437 Jun 30 j 14:36	11° \mathbb{M} 59'46	
retrograde	1431 Sep 25 j 21:19	15° \mathbb{I} 43'40			1437 Aug 15 j 10:43	15° \mathbb{M}	
min. Earth dist.	1431 Nov 23 j 01:30	10° \mathbb{I} 50'03	4.10894 AU	evening set	1437 Nov 03 j 10:48	29° \mathbb{M} 54'54	
opposition	1431 Nov 24 j 10:07	10° \mathbb{I} 38'57	0°-40'-27		1437 Nov 03 j 19:56	0° \mathcal{Z}	
direct	1432 Jan 22 j 02:48	5° \mathbb{I} 39'53		max. Earth dist.	1437 Nov 14 j 01:39	2° \mathcal{Z} 17'53	6.31047 AU
evening set	1432 May 27 j 14:13	24° \mathbb{I} 31'38					
				conjunction	1437 Nov 16 j 02:44	2° \mathcal{Z} 45'32	0°35'48
conjunction	1432 Jun 10 j 08:20	27° \mathbb{I} 38'59	0°-8'-15	minimum elong	1437 Nov 16 j 02:46	2° \mathcal{Z} 45'33	0°35'49
minimum elong	1432 Jun 10 j 08:20	27° \mathbb{I} 38'59	0°08'16	morning rise	1437 Nov 28 j 17:19	5° \mathcal{Z} 35'46	
behind sun begin	1432 Jun 10 j 00:59	27° \mathbb{I} 34'50		retrograde	1438 Apr 01 j 08:30	23° \mathcal{Z} 27'26	
behind sun end	1432 Jun 10 j 15:41	27° \mathbb{I} 43'08		opposition	1438 Jun 01 j 06:51	18° \mathcal{Z} 34'47	0°27'40
max. Earth dist.	1432 Jun 12 j 05:25	28° \mathbb{I} 04'36	6.17774 AU	min. Earth dist.	1438 Jun 02 j 15:28	18° \mathcal{Z} 24'22	4.24509 AU
	1432 Jun 20 j 16:57	0° \mathcal{E}		direct	1438 Aug 01 j 21:39	13° \mathcal{Z} 37'09	
morning rise	1432 Jun 24 j 02:44	0° \mathcal{E} 46'09			1438 Nov 26 j 07:52	0° \mathcal{Z}	
asc. node	1432 Sep 02 j 14:31	14° \mathcal{E} 43'37		evening set	1438 Dec 05 j 07:45	2° \mathcal{Z} 03'20	
retrograde	1432 Oct 27 j 22:23	19° \mathcal{E} 17'20		desc. node	1438 Dec 15 j 08:00	4° \mathcal{Z} 22'21	
opposition	1432 Dec 26 j 15:12	14° \mathcal{E} 15'05	0°16'18	max. Earth dist.	1438 Dec 16 j 10:05	4° \mathcal{Z} 37'31	6.17557 AU
min. Earth dist.	1432 Dec 25 j 16:41	14° \mathcal{E} 22'40	4.24701 AU				
direct	1433 Feb 24 j 12:59	9° \mathcal{E} 13'29		conjunction	1438 Dec 18 j 00:18	4° \mathcal{Z} 59'43	0°00'-15
evening set	1433 Jul 01 j 09:58	27° \mathcal{E} 29'29		minimum elong	1438 Dec 18 j 00:17	4° \mathcal{Z} 59'42	0°00'17
	1433 Jul 12 j 19:08	0° Ω		behind sun begin	1438 Dec 17 j 16:20	4° \mathcal{Z} 55'07	
				behind sun end	1438 Dec 18 j 08:14	5° \mathcal{Z} 04'18	
conjunction	1433 Jul 15 j 00:19	0° Ω 29'24	0°29'13	morning rise	1438 Dec 30 j 17:04	7° \mathcal{Z} 56'29	
minimum elong	1433 Jul 15 j 00:17	0° Ω 29'23	0°29'12	retrograde	1439 May 06 j 20:00	26° \mathcal{Z} 51'51	
max. Earth dist.	1433 Jul 15 j 22:15	0° Ω 41'31	6.31271 AU	opposition	1439 Jul 06 j 12:47	21° \mathcal{Z} 56'50	0°-29'-27
morning rise	1433 Jul 28 j 12:58	3° Ω 28'16		min. Earth dist.	1439 Jul 07 j 08:45	21° \mathcal{Z} 50'23	4.10626 AU
	1433 Sep 24 j 08:58	15° Ω		direct	1439 Sep 04 j 20:42	17° \mathcal{Z} 01'40	
retrograde	1433 Nov 28 j 05:58	21° Ω 00'37			1439 Dec 12 j 13:42	0° \approx	
opposition	1434 Jan 27 j 04:00	16° Ω 02'08	1°04'45	evening set	1440 Jan 07 j 23:17	6° \approx 04'38	
min. Earth dist.	1434 Jan 26 j 22:46	16° Ω 03'51	4.36804 AU				
	1434 Feb 04 j 01:07	15° $\mathbb{R}\Omega$		conjunction	1440 Jan 20 j 19:31	9° \approx 08'06	0°-37'-47
direct	1434 Mar 29 j 09:48	10° Ω 59'15		minimum elong	1440 Jan 20 j 19:29	9° \approx 08'05	0°37'48
	1434 May 21 j 18:09	15° Ω		max. Earth dist.	1440 Jan 20 j 05:33	8° \approx 59'47	6.04531 AU
evening set	1434 Aug 03 j 09:08	28° Ω 47'42		morning rise	1440 Feb 02 j 17:30	12° \approx 12'44	
	1434 Aug 08 j 22:52	0° \mathbb{M}			1440 Feb 14 j 14:12	15° \approx	
					1440 May 05 j 08:40	0° \mathcal{K}	
conjunction	1434 Aug 16 j 16:10	1° \mathbb{M} 40'35	0°56'32	retrograde	1440 Jun 12 j 04:51	2° \mathcal{K} 12'20	
minimum elong	1434 Aug 16 j 16:08	1° \mathbb{M} 40'34	0°56'31		1440 Jul 20 j 04:22	30° $\mathbb{R}\approx$	
max. Earth dist.	1434 Aug 16 j 09:24	1° \mathbb{M} 36'55	6.41040 AU	opposition	1440 Aug 11 j 12:45	27° \approx 13'46	-1°-19'-26
morning rise	1434 Aug 29 j 20:37	4° \mathbb{M} 32'05		min. Earth dist.	1440 Aug 11 j 10:56	27° \approx 14'22	3.99704 AU
retrograde	1434 Dec 28 j 12:55	21° \mathbb{M} 28'20		direct	1440 Oct 09 j 10:16	22° \approx 20'08	
opposition	1435 Feb 26 j 19:40	16° \mathbb{M} 33'18	1°33'04		1440 Dec 20 j 02:34	0° \mathcal{K}	
min. Earth dist.	1435 Feb 27 j 08:21	16° \mathbb{M} 29'11	4.43717 AU	evening set	1441 Feb 11 j 15:47	11° \mathcal{K} 52'29	
direct	1435 Apr 30 j 01:33	11° \mathbb{M} 30'20					
evening set	1435 Sep 03 j 20:48	29° \mathbb{M} 05'09		conjunction	1441 Feb 24 j 18:17	15° \mathcal{K} 02'16	-1°-2'-45
	1435 Sep 08 j 02:38	0° Ω		minimum elong	1441 Feb 24 j 18:15	15° \mathcal{K} 02'15	1°02'45
				max. Earth dist.	1441 Feb 25 j 11:31	15° \mathcal{K} 12'41	5.96687 AU
conjunction	1435 Sep 16 j 20:28	1° Ω 53'37	1°07'32	morning rise	1441 Mar 09 j 23:49	18° \mathcal{K} 13'42	
minimum elong	1435 Sep 16 j 20:28	1° Ω 53'37	1°07'32		1441 May 01 j 20:15	0° Υ	
max. Earth dist.	1435 Sep 15 j 14:43	1° Ω 37'29	6.44528 AU	retrograde	1441 Jul 20 j 07:38	8° Υ 50'12	
morning rise	1435 Sep 29 j 17:05	4° Ω 40'43		min. Earth dist.	1441 Sep 17 j 07:21	3° Υ 55'16	3.95933 AU

opposition	1441 Sep 18 j 05:48	3°♃47'43	-1°-40'-10	evening set	1447 Sep 08 j 03:54	3°♌22'24	
	1441 Oct 20 j 16:29	30°♃46'47		max. Earth dist.	1447 Sep 19 j 16:40	5°♌51'58	6.45009 AU
direct	1441 Nov 15 j 06:03	28°♃53'37					
	1441 Dec 10 j 18:42	0°♃		conjunction	1447 Sep 21 j 02:27	6°♌10'17	1°07'33
evening set	1442 Mar 20 j 19:43	18°♃33'33		minimum elong	1447 Sep 21 j 02:27	6°♌10'17	1°07'34
				morning rise	1447 Oct 03 j 22:16	8°♌56'51	
conjunction	1442 Apr 03 j 06:25	21°♃46'46	-1°-3'-38	retrograde	1448 Feb 01 j 02:19	25°♌43'34	
minimum elong	1442 Apr 03 j 06:27	21°♃46'47	1°03'39	opposition	1448 Apr 01 j 18:23	20°♌51'06	1°34'16
max. Earth dist.	1442 Apr 05 j 04:14	22°♃14'15	5.97278 AU	min. Earth dist.	1448 Apr 02 j 23:36	20°♌41'44	4.43684 AU
morning rise	1442 Apr 16 j 19:59	25°♃01'28		direct	1448 Jun 03 j 12:32	15°♌49'19	
	1442 May 08 j 04:08	0°♃			1448 Sep 21 j 18:49	0°♌	
	1442 Aug 10 j 07:39	15°♃		evening set	1448 Oct 07 j 18:42	3°♌26'06	
retrograde	1442 Aug 26 j 13:48	15°♃26'01		max. Earth dist.	1448 Oct 18 j 13:34	5°♌48'00	6.40400 AU
	1442 Sep 11 j 15:46	15°♃					
min. Earth dist.	1442 Oct 23 j 18:57	10°♃32'26	4.00902 AU	conjunction	1448 Oct 20 j 12:26	6°♌13'48	0°57'43
opposition	1442 Oct 25 j 04:07	10°♃21'09	-1°-21'-9	minimum elong	1448 Oct 20 j 12:28	6°♌13'49	0°57'42
direct	1442 Dec 22 j 04:22	5°♃24'43		morning rise	1448 Nov 02 j 03:46	9°♌00'32	
	1443 Mar 13 j 23:00	15°♃			1448 Nov 30 j 09:11	15°♌	
evening set	1443 Apr 27 j 06:04	24°♃46'23		retrograde	1449 Mar 03 j 13:01	26°♌10'20	
				opposition	1449 May 03 j 10:54	21°♌18'28	1°07'55
conjunction	1443 May 10 j 22:56	27°♃58'26	0°-39'-56	min. Earth dist.	1449 May 04 j 22:54	21°♌07'01	4.35696 AU
minimum elong	1443 May 10 j 22:59	27°♃58'27	0°39'57	direct	1449 Jul 04 j 21:23	16°♌18'39	
max. Earth dist.	1443 May 13 j 05:12	28°♃30'08	6.06098 AU		1449 Oct 19 j 05:09	0°♃	
	1443 May 19 j 15:13	0°♃		evening set	1449 Nov 07 j 15:57	4°♃16'08	
morning rise	1443 May 24 j 17:48	1°♃11'12		max. Earth dist.	1449 Nov 18 j 05:45	6°♃39'05	6.29619 AU
retrograde	1443 Sep 30 j 15:24	20°♃41'39					
min. Earth dist.	1443 Nov 27 j 20:40	15°♃48'15	4.12553 AU	conjunction	1449 Nov 20 j 07:36	7°♃07'16	0°31'25
opposition	1443 Nov 29 j 05:16	15°♃37'09	0°-32'-35	minimum elong	1449 Nov 20 j 07:37	7°♃07'16	0°31'25
direct	1444 Jan 27 j 00:37	10°♃37'42		morning rise	1449 Dec 02 j 22:19	9°♃58'07	
evening set	1444 Jun 01 j 15:06	29°♃25'07		retrograde	1450 Apr 06 j 00:24	27°♃56'57	
	1444 Jun 04 j 05:02	0°♃		opposition	1450 Jun 05 j 21:26	23°♃04'05	0°20'20
				min. Earth dist.	1450 Jun 07 j 06:28	22°♃53'31	4.22710 AU
conjunction	1444 Jun 15 j 09:04	2°♃31'36	0°-2'-44	direct	1450 Aug 06 j 09:51	18°♃06'42	
minimum elong	1444 Jun 15 j 09:04	2°♃31'36	0°02'45	desc. node	1450 Oct 27 j 05:47	27°♃11'21	
behind sun begin	1444 Jun 15 j 00:43	2°♃26'53			1450 Nov 10 j 00:27	0°♃	
behind sun end	1444 Jun 15 j 17:25	2°♃36'18		evening set	1450 Dec 09 j 17:20	6°♃37'52	
max. Earth dist.	1444 Jun 17 j 04:00	2°♃55'54	6.19618 AU	max. Earth dist.	1450 Dec 20 j 21:38	9°♃13'51	6.15541 AU
morning rise	1444 Jun 29 j 02:54	5°♃37'43					
asc. node	1444 Jul 12 j 21:17	8°♃40'54		conjunction	1450 Dec 22 j 10:19	9°♃35'15	0°-5'-33
retrograde	1444 Nov 01 j 12:15	24°♃00'04		minimum elong	1450 Dec 22 j 10:18	9°♃35'15	0°05'33
min. Earth dist.	1444 Dec 30 j 08:23	19°♃05'07	4.26574 AU	behind sun begin	1450 Dec 22 j 02:36	9°♃30'47	
opposition	1444 Dec 31 j 04:33	18°♃58'20	0°24'02	behind sun end	1450 Dec 22 j 18:00	9°♃39'43	
direct	1445 Mar 01 j 07:25	13°♃56'34		morning rise	1451 Jan 04 j 03:36	12°♃33'07	
	1445 Jun 26 j 08:58	0°♃			1451 Apr 09 j 02:11	0°♃	
evening set	1445 Jul 06 j 04:34	2°♃07'55		retrograde	1451 May 11 j 17:59	1°♃38'24	
					1451 Jun 13 j 13:22	30°♃	
conjunction	1445 Jul 19 j 18:00	5°♃06'44	0°33'52	opposition	1451 Jul 11 j 10:00	26°♃43'02	0°-37'-5
minimum elong	1445 Jul 19 j 17:58	5°♃06'42	0°33'53	min. Earth dist.	1451 Jul 12 j 03:41	26°♃37'19	4.08559 AU
max. Earth dist.	1445 Jul 20 j 12:56	5°♃17'09	6.33054 AU	direct	1451 Sep 09 j 12:04	21°♃48'08	
morning rise	1445 Aug 02 j 05:36	8°♃04'24			1451 Nov 24 j 00:55	0°♃	
	1445 Sep 04 j 04:29	15°♃		evening set	1452 Jan 12 j 16:26	10°♃57'28	
retrograde	1445 Dec 02 j 12:15	25°♃29'37					
opposition	1446 Jan 31 j 12:49	20°♃31'36	1°10'06	conjunction	1452 Jan 25 j 13:22	14°♃02'08	0°-42'-11
min. Earth dist.	1446 Jan 31 j 09:01	20°♃32'51	4.38401 AU	minimum elong	1452 Jan 25 j 13:20	14°♃02'07	0°42'13
direct	1446 Apr 02 j 22:08	15°♃28'41		max. Earth dist.	1452 Jan 25 j 02:04	13°♃55'22	6.02588 AU
	1446 Jul 23 j 17:17	0°♃			1452 Jan 29 j 13:57	15°♃	
evening set	1446 Aug 07 j 21:16	3°♃13'14		morning rise	1452 Feb 07 j 12:24	17°♃08'05	
					1452 Apr 06 j 19:01	0°♃	
conjunction	1446 Aug 21 j 03:10	6°♃05'07	0°59'06	retrograde	1452 Jun 17 j 10:43	7°♃17'19	
minimum elong	1446 Aug 21 j 03:08	6°♃05'06	0°59'06	opposition	1452 Aug 16 j 16:07	2°♃18'13	-1°-24'-23
max. Earth dist.	1446 Aug 20 j 18:04	6°♃00'11	6.42346 AU	min. Earth dist.	1452 Aug 16 j 11:42	2°♃19'41	3.98084 AU
morning rise	1446 Sep 03 j 06:15	8°♃55'34			1452 Sep 03 j 19:45	30°♃	
retrograde	1447 Jan 01 j 17:39	25°♃47'29		direct	1452 Oct 14 j 09:20	27°♃24'37	
opposition	1447 Mar 03 j 02:03	20°♃52'53	1°34'58		1452 Nov 23 j 06:06	0°♃	
min. Earth dist.	1447 Mar 03 j 16:49	20°♃48'06	4.44655 AU	evening set	1453 Feb 16 j 16:57	17°♃02'11	
direct	1447 May 04 j 11:08	15°♃50'04					
	1447 Aug 23 j 05:35	0°♃		conjunction	1453 Mar 01 j 20:48	20°♃13'04	-1°-4'-23

minimum elong	1453 Mar 01 j 20:47	20° Υ 13'04	1°04'24	retrograde	1459 Jan 05 j 23:12	0° Ω 09'37	
max. Earth dist.	1453 Mar 02 j 19:38	20° Υ 26'54	5.95557 AU		1459 Jan 15 j 23:33	30° \mathbb{R} \mathbb{M}	
morning rise	1453 Mar 15 j 03:30	23° Υ 25'35		opposition	1459 Mar 07 j 09:42	25° \mathbb{M} 15'19	1°36'25
	1453 Apr 12 j 06:54	0° Υ		min. Earth dist.	1459 Mar 08 j 02:25	25° \mathbb{M} 09'55	4.45126 AU
retrograde	1453 Jul 25 j 16:13	14° Υ 06'30		direct	1459 May 08 j 20:45	20° \mathbb{M} 12'33	
min. Earth dist.	1453 Sep 22 j 11:01	9° Υ 11'48	3.95443 AU		1459 Aug 05 j 17:50	0° Ω	
opposition	1453 Sep 23 j 11:21	9° Υ 03'35	-1°-39'-50	evening set	1459 Sep 12 j 12:09	7° Ω 43'56	
direct	1453 Nov 20 j 09:23	4° Υ 09'19		max. Earth dist.	1459 Sep 23 j 22:22	10° Ω 12'13	6.44919 AU
evening set	1454 Mar 26 j 02:32	23° Υ 50'45					
				conjunction	1459 Sep 25 j 09:53	10° Ω 31'30	1°07'15
conjunction	1454 Apr 08 j 14:17	27° Υ 04'25	-1°-1'-33	minimum elong	1459 Sep 25 j 09:53	10° Ω 31'30	1°07'14
minimum elong	1454 Apr 08 j 14:19	27° Υ 04'27	1°01'34	morning rise	1459 Oct 08 j 04:45	13° Ω 17'46	
max. Earth dist.	1454 Apr 10 j 14:11	27° Υ 33'06	5.97459 AU		1460 Jan 28 j 15:37	0° \mathbb{M}	
	1454 Apr 20 j 20:13	0° Υ		retrograde	1460 Feb 05 j 10:15	0° \mathbb{M} 05'41	
morning rise	1454 Apr 22 j 05:09	0° Υ 19'34			1460 Feb 13 j 04:26	30° \mathbb{R} Ω	
	1454 Jun 30 j 18:34	15° Υ		opposition	1460 Apr 06 j 03:51	25° Ω 13'23	1°32'00
retrograde	1454 Aug 31 j 16:26	20° Υ 40'46		min. Earth dist.	1460 Apr 07 j 10:52	25° Ω 03'29	4.43036 AU
min. Earth dist.	1454 Oct 28 j 19:21	15° Υ 47'43	4.01734 AU	direct	1460 Jun 07 j 22:27	20° Ω 11'51	
opposition	1454 Oct 30 j 06:33	15° Υ 35'42	-1°-15'-33		1460 Sep 04 j 09:16	0° \mathbb{M}	
	1454 Nov 03 j 15:34	15° \mathbb{R} Υ		evening set	1460 Oct 12 j 02:25	7° \mathbb{M} 50'21	
direct	1454 Dec 27 j 07:08	10° Υ 38'49		max. Earth dist.	1460 Oct 22 j 17:56	10° \mathbb{M} 10'53	6.39231 AU
	1455 Feb 17 j 23:52	15° Υ					
evening set	1455 May 02 j 12:45	29° Υ 57'51		conjunction	1460 Oct 24 j 19:33	10° \mathbb{M} 38'17	0°54'53
	1455 May 02 j 16:28	0° \mathbb{I}		minimum elong	1460 Oct 24 j 19:35	10° \mathbb{M} 38'17	0°54'53
				morning rise	1460 Nov 06 j 10:45	13° \mathbb{M} 25'24	
conjunction	1455 May 16 j 06:16	3° \mathbb{I} 09'31	0°-35'-3		1460 Nov 13 j 15:57	15° \mathbb{M}	
minimum elong	1455 May 16 j 06:18	3° \mathbb{I} 09'33	0°35'04		1461 Feb 15 j 05:11	0° \mathbb{J}	
max. Earth dist.	1455 May 18 j 12:57	3° \mathbb{I} 41'23	6.07506 AU	retrograde	1461 Mar 08 j 03:29	0° \mathbb{J} 40'35	
morning rise	1455 May 30 j 01:22	6° \mathbb{I} 21'44			1461 Mar 29 j 01:42	30° \mathbb{R} \mathbb{M}	
retrograde	1455 Oct 05 j 12:29	25° \mathbb{I} 43'34		opposition	1461 May 08 j 01:12	25° \mathbb{M} 48'40	1°02'16
min. Earth dist.	1455 Dec 02 j 18:38	20° \mathbb{I} 49'48	4.14337 AU	min. Earth dist.	1461 May 09 j 13:56	25° \mathbb{M} 36'57	4.34063 AU
opposition	1455 Dec 04 j 01:48	20° \mathbb{I} 39'12	0°-24'-24	direct	1461 Jul 09 j 09:58	20° \mathbb{M} 49'05	
direct	1456 Feb 01 j 01:42	15° \mathbb{I} 39'18			1461 Oct 01 j 07:56	0° \mathbb{J}	
	1456 May 17 j 22:17	0° \mathbb{E}		evening set	1461 Nov 12 j 02:22	8° \mathbb{J} 50'53	
asc. node	1456 May 21 j 06:20	0° \mathbb{E} 43'20		max. Earth dist.	1461 Nov 22 j 17:55	11° \mathbb{J} 15'24	6.27664 AU
evening set	1456 Jun 06 j 16:42	4° \mathbb{E} 21'28					
				conjunction	1461 Nov 24 j 18:13	11° \mathbb{J} 42'49	0°26'38
conjunction	1456 Jun 20 j 10:22	7° \mathbb{E} 26'55	0°03'00	minimum elong	1461 Nov 24 j 18:14	11° \mathbb{J} 42'50	0°26'37
minimum elong	1456 Jun 20 j 10:22	7° \mathbb{E} 26'55	0°02'59	morning rise	1461 Dec 07 j 09:00	14° \mathbb{J} 34'33	
behind sun begin	1456 Jun 20 j 02:02	7° \mathbb{E} 22'15			1462 Feb 27 j 08:23	0° \mathbb{E}	
behind sun end	1456 Jun 20 j 18:41	7° \mathbb{E} 31'35		retrograde	1462 Apr 10 j 21:31	2° \mathbb{E} 42'18	
max. Earth dist.	1456 Jun 22 j 04:10	7° \mathbb{E} 50'28	6.21606 AU		1462 May 24 j 02:28	30° \mathbb{R} \mathbb{J}	
morning rise	1456 Jul 04 j 03:34	10° \mathbb{E} 31'52		opposition	1462 Jun 10 j 18:50	27° \mathbb{J} 49'13	0°12'23
retrograde	1456 Nov 05 j 23:25	28° \mathbb{E} 44'41		min. Earth dist.	1462 Jun 12 j 02:18	27° \mathbb{J} 39'08	4.20560 AU
opposition	1457 Jan 04 j 18:19	23° \mathbb{E} 43'20	0°31'38	direct	1462 Aug 11 j 02:25	22° \mathbb{J} 52'14	
min. Earth dist.	1457 Jan 03 j 23:03	23° \mathbb{E} 49'48	4.28559 AU	desc. node	1462 Sep 05 j 07:05	23° \mathbb{J} 51'19	
direct	1457 Mar 06 j 01:09	18° \mathbb{E} 41'16			1462 Oct 21 j 08:22	0° \mathbb{E}	
	1457 Jun 08 j 16:59	0° Ω		evening set	1462 Dec 14 j 09:50	11° \mathbb{E} 29'18	
evening set	1457 Jul 10 j 23:17	6° Ω 47'26		max. Earth dist.	1462 Dec 25 j 16:23	14° \mathbb{E} 07'24	6.13382 AU
conjunction	1457 Jul 24 j 11:38	9° Ω 45'02	0°38'21	conjunction	1462 Dec 27 j 03:05	14° \mathbb{E} 27'45	0°-11'-4
minimum elong	1457 Jul 24 j 11:36	9° Ω 45'00	0°38'21	minimum elong	1462 Dec 27 j 03:04	14° \mathbb{E} 27'44	0°11'05
max. Earth dist.	1457 Jul 25 j 02:14	9° Ω 53'02	6.34852 AU	behind sun begin	1462 Dec 26 j 21:00	14° \mathbb{E} 24'12	
morning rise	1457 Aug 06 j 22:04	12° Ω 41'27		behind sun end	1462 Dec 27 j 09:08	14° \mathbb{E} 31'16	
	1457 Aug 17 j 14:50	15° Ω		morning rise	1463 Jan 08 j 21:09	17° \mathbb{E} 26'50	
retrograde	1457 Dec 06 j 20:47	29° Ω 59'38			1463 Mar 09 j 04:02	0° \approx	
opposition	1458 Feb 04 j 22:01	25° Ω 02'05	1°15'05	retrograde	1463 May 17 j 00:46	6° \approx 42'39	
min. Earth dist.	1458 Feb 04 j 21:35	25° Ω 02'14	4.39863 AU	opposition	1463 Jul 16 j 15:01	1° \approx 46'50	0°-44'-59
direct	1458 Apr 07 j 12:43	19° Ω 59'04		min. Earth dist.	1463 Jul 17 j 05:51	1° \approx 42'00	4.06573 AU
	1458 Jul 06 j 00:16	0° \mathbb{M}			1463 Jul 30 j 15:23	30° \mathbb{R} \mathbb{E}	
evening set	1458 Aug 12 j 09:32	7° \mathbb{M} 40'08		direct	1463 Sep 14 j 12:22	26° \mathbb{E} 52'13	
					1463 Oct 29 j 05:17	0° \approx	
conjunction	1458 Aug 25 j 14:21	10° \mathbb{M} 31'10	1°01'24		1464 Jan 12 j 23:35	15° \approx	
minimum elong	1458 Aug 25 j 14:19	10° \mathbb{M} 31'09	1°01'24	evening set	1464 Jan 17 j 16:41	16° \approx 07'14	
max. Earth dist.	1458 Aug 25 j 01:17	10° \mathbb{M} 24'06	6.43333 AU				
morning rise	1458 Sep 07 j 16:16	13° \mathbb{M} 20'46		conjunction	1464 Jan 30 j 14:36	19° \approx 13'01	0°-46'-34
	1458 Dec 26 j 22:43	0° Ω		minimum elong	1464 Jan 30 j 14:34	19° \approx 13'00	0°46'35

max. Earth dist.	1464 Jan 30 j 09:09	19° \approx 09'44	6.00988 AU		1469 Oct 17 j 11:32	0° \cap	
morning rise	1464 Feb 12 j 14:31	22° \approx 20'06		retrograde	1469 Dec 11 j 00:44	4° \cap 22'05	
	1464 Mar 16 j 21:49	0° H			1470 Feb 04 j 17:42	30° $\text{R}\Omega$	
retrograde	1464 Jun 22 j 22:31	12° H 37'02		opposition	1470 Feb 09 j 04:18	29° Ω 25'04	1°19'30
opposition	1464 Aug 22 j 01:40	7° H 37'26	-1°-28'-57	min. Earth dist.	1470 Feb 09 j 05:50	29° Ω 24'34	4.41027 AU
min. Earth dist.	1464 Aug 21 j 18:18	7° H 39'53	3.97085 AU	direct	1470 Apr 11 j 21:43	24° Ω 22'03	
direct	1464 Oct 19 j 14:45	2° H 43'59			1470 Jun 15 j 13:12	0° \cap	
evening set	1465 Feb 21 j 23:59	22° H 24'06		evening set	1470 Aug 16 j 18:58	12° \cap 00'55	
conjunction	1465 Mar 07 j 04:48	25° H 35'37	-1°-5'-37	conjunction	1470 Aug 29 j 22:36	14° \cap 51'17	1°03'17
minimum elong	1465 Mar 07 j 04:47	25° H 35'37	1°05'39	minimum elong	1470 Aug 29 j 22:35	14° \cap 51'16	1°03'17
max. Earth dist.	1465 Mar 08 j 07:17	25° H 51'39	5.95250 AU	max. Earth dist.	1470 Aug 29 j 04:52	14° \cap 41'41	6.43917 AU
morning rise	1465 Mar 20 j 12:52	28° H 48'51		morning rise	1470 Sep 11 j 23:29	17° \cap 40'14	
	1465 Mar 25 j 11:43	0° V			1470 Nov 15 j 16:52	0° Ω	
retrograde	1465 Jul 31 j 00:34	19° V 30'00		retrograde	1471 Jan 10 j 05:07	4° Ω 27'43	
opposition	1465 Sep 28 j 19:39	14° V 26'39	-1°-38'-40		1471 Mar 08 j 06:40	30° $\text{R}\cap$	
min. Earth dist.	1465 Sep 27 j 15:50	14° V 36'04	3.95905 AU	opposition	1471 Mar 11 j 15:51	29° \cap 33'51	1°37'22
direct	1465 Nov 25 j 16:19	9° V 32'07		min. Earth dist.	1471 Mar 12 j 12:01	29° \cap 27'20	4.45113 AU
evening set	1466 Mar 31 j 11:16	29° V 11'18		direct	1471 May 13 j 05:51	24° \cap 31'12	
	1466 Apr 03 j 21:12	0° B			1471 Jul 16 j 06:14	0° Ω	
conjunction	1466 Apr 14 j 00:06	2° B 24'55	0°-59'-1	evening set	1471 Sep 16 j 19:10	12° Ω 03'18	
minimum elong	1466 Apr 14 j 00:08	2° B 24'56	0°59'01	max. Earth dist.	1471 Sep 28 j 01:07	14° Ω 29'35	6.44295 AU
max. Earth dist.	1466 Apr 16 j 03:00	2° B 55'18	5.98642 AU	conjunction	1471 Sep 29 j 16:10	14° Ω 50'49	1°06'35
morning rise	1466 Apr 27 j 15:43	5° B 39'50		minimum elong	1471 Sep 29 j 16:10	14° Ω 50'49	1°06'34
	1466 Jun 08 j 04:16	15° B		morning rise	1471 Oct 12 j 10:25	17° Ω 37'05	
retrograde	1466 Sep 05 j 18:53	25° B 53'37			1471 Dec 16 j 02:57	0° M	
min. Earth dist.	1466 Nov 02 j 21:42	21° B 00'20	4.03478 AU	retrograde	1472 Feb 09 j 18:40	4° M 28'05	
opposition	1466 Nov 04 j 08:33	20° B 48'26	-1°-9'-23		1472 Apr 07 j 09:49	30° $\text{R}\Omega$	
direct	1467 Jan 01 j 12:30	15° B 51'08		opposition	1472 Apr 10 j 13:14	29° Ω 35'56	1°29'17
	1467 Apr 15 j 07:45	0° II		min. Earth dist.	1472 Apr 11 j 21:19	29° Ω 25'41	4.41862 AU
evening set	1467 May 07 j 17:48	5° II 04'19		direct	1472 Jun 12 j 06:40	24° Ω 34'36	
conjunction	1467 May 21 j 11:41	8° II 15'11	0°-30'-2		1472 Aug 14 j 15:52	0° M	
minimum elong	1467 May 21 j 11:43	8° II 15'12	0°30'02	evening set	1472 Oct 16 j 10:18	12° M 16'35	
max. Earth dist.	1467 May 23 j 18:39	8° II 47'01	6.09646 AU	max. Earth dist.	1472 Oct 27 j 02:06	14° M 37'48	6.37599 AU
morning rise	1467 Jun 04 j 06:48	11° II 26'25			1472 Oct 28 j 18:08	15° M	
	1467 Sep 20 j 16:36	0° S		conjunction	1472 Oct 29 j 03:14	15° M 05'02	0°51'44
retrograde	1467 Oct 10 j 04:09	0° S 37'16		minimum elong	1472 Oct 29 j 03:16	15° M 05'03	0°51'45
	1467 Oct 29 j 12:35	30° RII		morning rise	1472 Nov 10 j 18:06	17° M 52'43	
opposition	1467 Dec 08 j 19:03	25° II 33'14	0°-16'-18		1473 Jan 11 j 01:48	0° J	
min. Earth dist.	1467 Dec 07 j 12:19	25° II 43'40	4.16643 AU	retrograde	1473 Mar 12 j 19:14	5° J 14'57	
direct	1468 Feb 05 j 22:24	20° II 33'01		opposition	1473 May 12 j 17:05	0° J 23'01	0°56'13
asc. node	1468 Mar 30 j 22:20	24° II 54'09		min. Earth dist.	1473 May 14 j 05:55	0° J 11'17	4.32073 AU
	1468 Apr 29 j 09:35	0° S			1473 May 15 j 17:25	30° RM	
evening set	1468 Jun 11 j 14:57	9° S 08'45		direct	1473 Jul 13 j 23:14	25° M 23'50	
conjunction	1468 Jun 25 j 07:57	12° S 12'58	0°08'23		1473 Sep 09 j 02:23	0° J	
minimum elong	1468 Jun 25 j 07:56	12° S 12'57	0°08'23	evening set	1473 Nov 16 j 14:28	13° J 30'59	
behind sun begin	1468 Jun 25 j 00:40	12° S 08'54		max. Earth dist.	1473 Nov 27 j 06:06	15° J 56'21	6.25479 AU
behind sun end	1468 Jun 25 j 15:12	12° S 17'00		conjunction	1473 Nov 29 j 06:15	16° J 23'49	0°21'37
max. Earth dist.	1468 Jun 26 j 20:50	12° S 33'38	6.23880 AU	minimum elong	1473 Nov 29 j 06:16	16° J 23'50	0°21'37
morning rise	1468 Jul 09 j 00:28	15° S 16'35		morning rise	1473 Dec 11 j 21:30	19° J 16'37	
	1468 Sep 24 j 12:55	0° Ω			1474 Jan 31 j 21:50	0° Z	
retrograde	1468 Nov 10 j 09:15	3° Ω 19'47		retrograde	1474 Apr 15 j 22:16	7° Z 34'11	
	1468 Dec 27 j 08:19	30° RS		opposition	1474 Jun 15 j 18:38	2° Z 40'46	0°04'14
opposition	1469 Jan 09 j 04:35	28° S 18'58	0°38'45	min. Earth dist.	1474 Jun 16 j 23:46	2° Z 31'25	4.18338 AU
min. Earth dist.	1469 Jan 08 j 12:47	28° S 24'15	4.30602 AU		1474 Jul 07 j 20:40	30° RJ	
direct	1469 Mar 10 j 17:23	23° S 16'40		desc. node	1474 Jul 15 j 02:42	29° J 16'25	
	1469 May 19 j 21:29	0° Ω		direct	1474 Aug 15 j 21:32	27° J 44'07	
evening set	1469 Jul 15 j 13:58	11° Ω 17'58			1474 Sep 23 j 09:32	0° Z	
conjunction	1469 Jul 29 j 01:28	14° Ω 14'30	0°42'28	evening set	1474 Dec 19 j 04:28	16° Z 27'11	
minimum elong	1469 Jul 29 j 01:26	14° Ω 14'29	0°42'27	conjunction	1474 Dec 31 j 22:22	19° Z 26'43	0°-16'-36
max. Earth dist.	1469 Jul 29 j 12:42	14° Ω 20'38	6.36501 AU	minimum elong	1474 Dec 31 j 22:21	19° Z 26'43	0°16'37
	1469 Aug 01 j 12:39	15° Ω		max. Earth dist.	1474 Dec 30 j 16:45	19° Z 09'17	6.11339 AU
morning rise	1469 Aug 11 j 10:37	17° Ω 09'45		morning rise	1475 Jan 13 j 16:59	22° Z 26'57	

	1475 Feb 16 j 05:09	0°♊		opposition	1481 Jan 13 j 14:03	2°♌51'37	0°45'35
retrograde	1475 May 22 j 09:30	11°♊52'25		min. Earth dist.	1481 Jan 13 j 00:11	2°♌56'14	4.32302 AU
opposition	1475 Jul 21 j 21:39	6°♊56'07	0°-52'-39		1481 Feb 05 j 11:23	30°♌	
min. Earth dist.	1475 Jul 22 j 09:38	6°♊52'13	4.04911 AU	direct	1481 Mar 15 j 06:34	27°♌49'10	
direct	1475 Sep 19 j 13:56	2°♊01'47			1481 Apr 22 j 13:14	0°♌	
	1475 Dec 26 j 10:22	15°♊			1481 Jul 16 j 13:51	15°♌	
evening set	1476 Jan 22 j 18:33	21°♊21'02		evening set	1481 Jul 20 j 04:22	15°♌46'45	
conjunction	1476 Feb 04 j 17:08	24°♊27'39	0°-50'-36	conjunction	1481 Aug 02 j 14:41	18°♌42'18	0°46'19
minimum elong	1476 Feb 04 j 17:06	24°♊27'38	0°50'37	minimum elong	1481 Aug 02 j 14:39	18°♌42'17	0°46'18
max. Earth dist.	1476 Feb 04 j 15:24	24°♊26'37	5.99838 AU	max. Earth dist.	1481 Aug 02 j 20:06	18°♌45'16	6.37797 AU
morning rise	1476 Feb 17 j 18:14	27°♊35'44		morning rise	1481 Aug 15 j 22:52	21°♌36'36	
	1476 Feb 27 j 21:19	0°♋			1481 Sep 25 j 19:55	0°♌	
retrograde	1476 Jun 28 j 07:34	17°♋57'59		retrograde	1481 Dec 15 j 07:34	8°♌44'16	
opposition	1476 Aug 27 j 10:57	12°♋57'44	-1°-32'-44	opposition	1482 Feb 13 j 11:03	3°♌47'46	1°23'29
min. Earth dist.	1476 Aug 26 j 23:17	13°♋01'37	3.96592 AU	min. Earth dist.	1482 Feb 13 j 16:18	3°♌46'03	4.41858 AU
direct	1476 Oct 24 j 20:20	8°♋04'12			1482 Mar 18 j 11:54	30°♌	
evening set	1477 Feb 27 j 06:26	27°♋44'50		direct	1482 Apr 16 j 08:45	28°♌44'41	
	1477 Mar 08 j 14:36	0°♌		evening set	1482 May 15 j 12:34	0°♌	
conjunction	1477 Mar 12 j 12:25	0°♌56'45	-1°-6'-18	max. Earth dist.	1482 Aug 21 j 04:43	16°♌22'17	
minimum elong	1477 Mar 12 j 12:25	0°♌56'45	1°06'19		1482 Sep 02 j 11:09	19°♌01'08	6.44214 AU
max. Earth dist.	1477 Mar 13 j 20:08	1°♌15'56	5.95440 AU	conjunction	1482 Sep 03 j 07:31	19°♌12'10	1°04'50
morning rise	1477 Mar 25 j 21:27	4°♌10'20		minimum elong	1482 Sep 03 j 07:30	19°♌12'09	1°04'50
retrograde	1477 Aug 05 j 08:28	24°♌49'30		morning rise	1482 Sep 16 j 07:16	22°♌00'35	
min. Earth dist.	1477 Oct 02 j 21:15	19°♌55'26	3.96750 AU		1482 Oct 25 j 09:53	0°♌	
opposition	1477 Oct 04 j 01:59	19°♌45'41	-1°-36'-41	retrograde	1483 Jan 14 j 10:30	8°♌47'32	
direct	1477 Nov 30 j 23:39	14°♌50'48		opposition	1483 Mar 15 j 23:10	3°♌54'01	1°37'48
	1478 Mar 17 j 16:40	0°♍		min. Earth dist.	1483 Mar 16 j 20:33	3°♌47'08	4.44888 AU
evening set	1478 Apr 05 j 18:11	4°♍26'29			1483 Apr 19 j 19:17	30°♌	
conjunction	1478 Apr 19 j 07:57	7°♍39'52	0°-56'-1	direct	1483 May 17 j 13:15	28°♌51'33	
minimum elong	1478 Apr 19 j 07:59	7°♍39'53	0°56'03		1483 Jun 14 j 13:24	0°♌	
max. Earth dist.	1478 Apr 21 j 13:15	8°♍11'32	6.00049 AU	evening set	1483 Sep 21 j 03:06	16°♌24'50	
morning rise	1478 May 03 j 00:21	10°♍54'27		max. Earth dist.	1483 Oct 02 j 06:18	18°♌49'59	6.43561 AU
	1478 May 20 j 15:45	15°♍		conjunction	1483 Oct 03 j 23:19	19°♌12'20	1°05'32
	1478 Aug 16 j 23:06	0°♎		minimum elong	1483 Oct 03 j 23:20	19°♌12'21	1°05'31
retrograde	1478 Sep 10 j 17:35	0°♎59'49		morning rise	1483 Oct 16 j 16:57	21°♌58'40	
	1478 Oct 05 j 06:38	30°♎			1483 Nov 24 j 15:40	0°♎	
min. Earth dist.	1478 Nov 07 j 20:11	26°♎06'43	4.05294 AU	retrograde	1484 Feb 14 j 06:05	8°♎53'08	
opposition	1478 Nov 09 j 07:32	25°♎54'40	-1°-2'-50	opposition	1484 Apr 15 j 00:29	4°♎01'12	1°26'01
direct	1479 Jan 06 j 13:03	20°♎56'56		min. Earth dist.	1484 Apr 16 j 10:22	3°♎50'24	4.40667 AU
	1479 Mar 27 j 08:07	0°♏			1484 May 21 j 18:24	30°♎	
evening set	1479 May 12 j 20:47	10°♏04'31		direct	1484 Jun 16 j 17:59	29°♏00'13	
conjunction	1479 May 26 j 14:46	13°♏14'31	0°-24'-51		1484 Jul 12 j 17:53	0°♎	
minimum elong	1479 May 26 j 14:47	13°♏14'32	0°24'53		1484 Oct 12 j 18:45	15°♎	
max. Earth dist.	1479 May 28 j 18:32	13°♏44'22	6.11705 AU	evening set	1484 Oct 20 j 19:22	16°♎45'28	
morning rise	1479 Jun 09 j 09:58	16°♏24'48		max. Earth dist.	1484 Oct 31 j 09:33	19°♎06'23	6.36046 AU
	1479 Aug 15 j 02:43	0°♏		conjunction	1484 Nov 02 j 11:58	19°♎34'26	0°48'16
retrograde	1479 Oct 14 j 19:00	5°♏25'27		minimum elong	1484 Nov 02 j 12:00	19°♎34'27	0°48'15
min. Earth dist.	1479 Dec 12 j 06:03	0°♏31'24	4.18732 AU	morning rise	1484 Nov 15 j 02:47	22°♎22'43	
opposition	1479 Dec 13 j 10:25	0°♏21'47	0°-8'-14		1484 Dec 21 j 02:32	0°♏	
	1479 Dec 16 j 02:42	30°♏		retrograde	1485 Mar 17 j 11:58	9°♏51'48	
asc. node	1480 Feb 08 j 19:15	25°♏21'33		opposition	1485 May 17 j 10:15	4°♏59'46	0°49'44
direct	1480 Feb 10 j 19:09	25°♏21'09		min. Earth dist.	1485 May 18 j 21:39	4°♏48'29	4.30274 AU
	1480 Apr 06 j 21:39	0°♐		direct	1485 Jul 18 j 12:33	0°♏00'59	
evening set	1480 Jun 16 j 11:18	13°♐51'25		evening set	1485 Nov 21 j 03:21	18°♏12'47	
				max. Earth dist.	1485 Dec 01 j 22:42	20°♏40'52	6.23613 AU
conjunction	1480 Jun 30 j 03:56	16°♐54'35	0°13'39	conjunction	1485 Dec 03 j 19:20	21°♏06'27	0°16'27
minimum elong	1480 Jun 30 j 03:55	16°♐54'34	0°13'40	minimum elong	1485 Dec 03 j 19:21	21°♏06'28	0°16'28
behind sun begin	1480 Jun 29 j 23:38	16°♐52'11		morning rise	1485 Dec 16 j 10:44	24°♏00'07	
behind sun end	1480 Jun 30 j 08:12	16°♐56'57			1486 Jan 12 j 12:15	0°♐	
max. Earth dist.	1480 Jul 01 j 14:33	17°♐13'55	6.25850 AU	retrograde	1486 Apr 20 j 23:45	12°♐26'23	
morning rise	1480 Jul 13 j 19:29	19°♐56'59		desc. node	1486 May 24 j 11:20	10°♐44'52	
	1480 Aug 31 j 11:28	0°♑		opposition	1486 Jun 20 j 18:48	7°♐32'43	0°-3'-56
retrograde	1480 Nov 14 j 17:34	7°♑51'52					

min. Earth dist.	1486 Jun 21 j 22:14	7°♁23'54	4.16543 AU	conjunction	1492 Jul 04 j 21:17	21°♁31'14	0°18'42
direct	1486 Aug 20 j 17:33	2°♁36'32		minimum elong	1492 Jul 04 j 21:15	21°♁31'13	0°18'42
evening set	1486 Dec 23 j 22:54	21°♁24'01		max. Earth dist.	1492 Jul 06 j 02:47	21°♁47'39	6.27430 AU
				morning rise	1492 Jul 18 j 12:12	24°♁32'39	
conjunction	1487 Jan 05 j 17:07	24°♁24'23	0°-21'-58		1492 Aug 12 j 21:00	0°♁	
minimum elong	1487 Jan 05 j 17:06	24°♁24'23	0°21'59	retrograde	1492 Nov 19 j 01:06	12°♁20'47	
max. Earth dist.	1487 Jan 04 j 14:07	24°♁08'27	6.09773 AU	opposition	1493 Jan 17 j 21:56	7°♁21'02	0°51'58
morning rise	1487 Jan 18 j 12:34	27°♁25'38		min. Earth dist.	1493 Jan 17 j 10:55	7°♁24'42	4.33608 AU
	1487 Jan 29 j 13:44	0°♁		direct	1493 Mar 19 j 18:29	2°♁18'24	
	1487 Apr 21 j 16:17	15°♁			1493 Jun 29 j 23:21	15°♁	
retrograde	1487 May 27 j 14:08	16°♁59'02		evening set	1493 Jul 24 j 17:12	20°♁13'32	
	1487 Jul 02 j 16:50	15°♁					
opposition	1487 Jul 27 j 02:51	12°♁02'11	0°-59'-45	conjunction	1493 Aug 07 j 02:44	23°♁08'20	0°49'48
min. Earth dist.	1487 Jul 27 j 10:31	11°♁59'40	4.03730 AU	minimum elong	1493 Aug 07 j 02:41	23°♁08'18	0°49'48
direct	1487 Sep 24 j 13:59	7°♁08'06		max. Earth dist.	1493 Aug 07 j 05:45	23°♁09'59	6.38748 AU
	1487 Dec 06 j 19:35	15°♁		morning rise	1493 Aug 20 j 09:37	26°♁01'45	
evening set	1488 Jan 27 j 18:36	26°♁30'00			1493 Sep 08 j 01:47	0°♁	
				retrograde	1493 Dec 19 j 12:44	13°♁05'54	
conjunction	1488 Feb 09 j 18:05	29°♁37'17	0°-54'-8	opposition	1494 Feb 17 j 17:26	8°♁09'54	1°26'56
minimum elong	1488 Feb 09 j 18:02	29°♁37'16	0°54'09	min. Earth dist.	1494 Feb 18 j 00:20	8°♁07'38	4.42419 AU
max. Earth dist.	1488 Feb 09 j 22:05	29°♁39'42	5.99150 AU	direct	1494 Apr 20 j 17:08	3°♁06'52	
	1488 Feb 11 j 07:45	0°♁		evening set	1494 Aug 25 j 14:02	20°♁43'42	
morning rise	1488 Feb 22 j 19:57	2°♁46'03					
retrograde	1488 Jul 03 j 15:35	23°♁11'47		conjunction	1494 Sep 07 j 15:42	23°♁33'06	1°05'59
opposition	1488 Sep 01 j 17:01	18°♁11'00	-1°-35'-36	minimum elong	1494 Sep 07 j 15:41	23°♁33'05	1°05'58
min. Earth dist.	1488 Sep 01 j 03:29	18°♁15'31	3.96483 AU	max. Earth dist.	1494 Sep 06 j 15:10	23°♁19'49	6.44336 AU
direct	1488 Oct 30 j 01:21	13°♁17'25		morning rise	1494 Sep 20 j 14:37	26°♁21'07	
	1489 Feb 19 j 23:34	0°♁			1494 Oct 07 j 19:48	0°♁	
evening set	1489 Mar 04 j 10:00	2°♁57'26		retrograde	1495 Jan 18 j 18:26	13°♁07'58	
				opposition	1495 Mar 20 j 06:51	8°♁14'43	1°37'39
conjunction	1489 Mar 17 j 16:59	6°♁09'37	-1°-6'-25	min. Earth dist.	1495 Mar 21 j 06:50	8°♁07'00	4.44586 AU
minimum elong	1489 Mar 17 j 17:00	6°♁09'37	1°06'25	direct	1495 May 21 j 23:01	3°♁12'20	
max. Earth dist.	1489 Mar 19 j 04:18	6°♁30'55	5.95899 AU	evening set	1495 Sep 25 j 10:44	20°♁46'35	
morning rise	1489 Mar 31 j 03:07	9°♁23'27		max. Earth dist.	1495 Oct 06 j 12:19	23°♁11'07	6.42848 AU
retrograde	1489 Aug 10 j 10:30	29°♁59'24					
min. Earth dist.	1489 Oct 07 j 21:17	25°♁05'39	3.97750 AU	conjunction	1495 Oct 08 j 06:24	23°♁34'07	1°04'05
opposition	1489 Oct 09 j 03:49	24°♁55'18	-1°-33'-57	minimum elong	1495 Oct 08 j 06:25	23°♁34'07	1°04'06
direct	1489 Dec 06 j 00:36	20°♁00'06		morning rise	1495 Oct 20 j 23:22	26°♁20'28	
	1490 Feb 27 j 08:02	0°♁			1495 Nov 07 j 01:49	0°♁	
evening set	1490 Apr 10 j 21:18	9°♁32'14		retrograde	1496 Feb 18 j 15:23	13°♁18'04	
				opposition	1496 Apr 19 j 11:30	8°♁26'07	1°22'13
conjunction	1490 Apr 24 j 11:46	12°♁45'18	0°-52'-42	min. Earth dist.	1496 Apr 20 j 21:01	8°♁15'26	4.39586 AU
minimum elong	1490 Apr 24 j 11:49	12°♁45'19	0°52'43	direct	1496 Jun 21 j 02:44	3°♁25'22	
max. Earth dist.	1490 Apr 26 j 16:15	13°♁16'22	6.01470 AU		1496 Sep 26 j 01:03	15°♁	
	1490 May 03 j 23:41	15°♁		evening set	1496 Oct 25 j 03:47	21°♁13'10	
morning rise	1490 May 08 j 04:56	15°♁59'32		max. Earth dist.	1496 Nov 04 j 18:22	23°♁34'47	6.34662 AU
	1490 Jul 13 j 21:59	0°♁					
retrograde	1490 Sep 15 j 12:12	5°♁56'56		conjunction	1496 Nov 06 j 20:02	24°♁02'32	0°44'30
min. Earth dist.	1490 Nov 12 j 16:09	1°♁03'35	4.06967 AU	minimum elong	1496 Nov 06 j 20:04	24°♁02'33	0°44'29
opposition	1490 Nov 14 j 02:34	0°♁51'51	0°-56'-4	morning rise	1496 Nov 19 j 10:42	26°♁51'18	
	1490 Nov 20 j 11:27	30°♁			1496 Dec 03 j 18:34	0°♁	
direct	1491 Jan 11 j 11:49	25°♁53'41		retrograde	1497 Mar 22 j 05:33	14°♁26'34	
	1491 Mar 03 j 22:30	0°♁		opposition	1497 May 22 j 02:56	9°♁34'22	0°42'56
evening set	1491 May 17 j 19:56	14°♁56'30		min. Earth dist.	1497 May 23 j 14:40	9°♁22'58	4.28632 AU
				direct	1497 Jul 23 j 03:12	4°♁35'52	
conjunction	1491 May 31 j 14:14	18°♁05'48	0°-19'-42	evening set	1497 Nov 25 j 14:59	22°♁51'34	
minimum elong	1491 May 31 j 14:16	18°♁05'49	0°19'43	max. Earth dist.	1497 Dec 06 j 11:06	25°♁20'43	6.21830 AU
max. Earth dist.	1491 Jun 02 j 17:08	18°♁35'01	6.13507 AU				
morning rise	1491 Jun 14 j 09:09	21°♁15'10		conjunction	1497 Dec 08 j 07:03	25°♁46'00	0°11'13
	1491 Jul 24 j 19:46	0°♁		minimum elong	1497 Dec 08 j 07:03	25°♁46'00	0°11'14
retrograde	1491 Oct 19 j 07:53	10°♁06'58		behind sun begin	1497 Dec 08 j 01:06	25°♁42'35	
opposition	1491 Dec 17 j 22:44	5°♁03'45	0°00'-25	behind sun end	1497 Dec 08 j 13:01	25°♁49'24	
min. Earth dist.	1491 Dec 16 j 20:13	5°♁12'43	4.20492 AU	morning rise	1497 Dec 20 j 22:53	28°♁40'33	
asc. node	1491 Dec 20 j 22:57	4°♁39'22			1497 Dec 26 j 18:15	0°♁	
direct	1492 Feb 15 j 11:19	0°♁02'51		desc. node	1498 Apr 03 j 07:01	16°♁27'31	
evening set	1492 Jun 21 j 05:23	18°♁29'02		retrograde	1498 Apr 25 j 22:05	17°♁15'18	
				opposition	1498 Jun 25 j 17:34	12°♁21'12	0°-12'-4

min. Earth dist.	1498 Jun 26 j 18:02	12°♁13'19	4.14737 AU	evening set	1504 Jun 26 j 01:59	23°♁12'38	
direct	1498 Aug 25 j 10:44	7°♁25'19					
evening set	1498 Dec 28 j 16:18	26°♁17'29		conjunction	1504 Jul 09 j 17:16	26°♁13'48	0°23'47
				minimum elong	1504 Jul 09 j 17:15	26°♁13'47	0°23'46
conjunction	1499 Jan 10 j 11:06	29°♁18'48	0°-27'-9	max. Earth dist.	1504 Jul 10 j 20:42	26°♁29'01	6.29235 AU
minimum elong	1499 Jan 10 j 11:04	29°♁18'47	0°27'10	morning rise	1504 Jul 23 j 07:06	29°♁14'02	
max. Earth dist.	1499 Jan 09 j 12:34	29°♁05'27	6.08101 AU		1504 Jul 26 j 18:54	0°♁	
	1499 Jan 13 j 08:34	0°♁			1504 Oct 19 j 09:25	15°♁	
morning rise	1499 Jan 23 j 07:08	2°♁21'03		retrograde	1504 Nov 23 j 11:11	16°♁54'37	
	1499 Mar 23 j 06:11	15°♁			1504 Dec 28 j 07:30	15°♁♁	
retrograde	1499 Jun 01 j 20:28	22°♁02'52		opposition	1505 Jan 22 j 08:17	11°♁55'29	0°58'11
opposition	1499 Aug 01 j 06:56	17°♁05'30	-1°-6'-27	min. Earth dist.	1505 Jan 21 j 23:19	11°♁58'27	4.35281 AU
min. Earth dist.	1499 Aug 01 j 12:47	17°♁03'35	4.02342 AU	direct	1505 Mar 24 j 09:10	6°♁52'50	
	1499 Aug 17 j 18:50	15°♁♁			1505 Jun 11 j 02:27	15°♁	
direct	1499 Sep 29 j 14:48	12°♁11'33		evening set	1505 Jul 29 j 07:38	24°♁43'57	
	1499 Nov 10 j 12:14	15°♁					
evening set	1500 Jan 25 j 23:35	0°♁		conjunction	1505 Aug 11 j 15:54	27°♁37'42	0°53'05
	1500 Feb 01 j 18:29	1°♁37'12		minimum elong	1505 Aug 11 j 15:52	27°♁37'41	0°53'05
				max. Earth dist.	1505 Aug 11 j 14:49	27°♁37'07	6.40175 AU
conjunction	1500 Feb 14 j 18:52	4°♁45'21	0°-57'-17		1505 Aug 22 j 14:02	0°♁	
minimum elong	1500 Feb 14 j 18:50	4°♁45'19	0°57'18	morning rise	1505 Aug 24 j 21:42	0°♁30'05	
max. Earth dist.	1500 Feb 15 j 02:42	4°♁50'04	5.98167 AU	retrograde	1505 Dec 23 j 18:45	17°♁29'12	
morning rise	1500 Feb 27 j 21:55	7°♁55'02		opposition	1506 Feb 22 j 00:45	12°♁33'37	1°29'56
retrograde	1500 Jul 08 j 22:50	28°♁25'17		min. Earth dist.	1506 Feb 22 j 09:56	12°♁30'37	4.43539 AU
opposition	1500 Sep 06 j 22:52	23°♁24'00	-1°-37'-48	direct	1506 Apr 25 j 03:49	7°♁30'38	
min. Earth dist.	1500 Sep 06 j 06:04	23°♁29'38	3.96044 AU	evening set	1506 Aug 29 j 22:48	25°♁04'41	
direct	1500 Nov 04 j 03:15	18°♁30'19					
	1501 Feb 02 j 02:17	0°♁		conjunction	1506 Sep 11 j 23:33	27°♁53'24	1°06'47
evening set	1501 Mar 09 j 14:37	8°♁11'18		minimum elong	1506 Sep 11 j 23:32	27°♁53'24	1°06'47
				max. Earth dist.	1506 Sep 10 j 21:51	27°♁39'29	6.45070 AU
conjunction	1501 Mar 22 j 22:40	11°♁23'56	-1°-6'00		1506 Sep 21 j 17:40	0°♁	
minimum elong	1501 Mar 22 j 22:40	11°♁23'56	1°06'01	morning rise	1506 Sep 24 j 21:14	0°♁40'41	
max. Earth dist.	1501 Mar 24 j 12:13	11°♁46'34	5.96021 AU	retrograde	1507 Jan 22 j 22:34	17°♁25'39	
morning rise	1501 Apr 05 j 09:59	14°♁38'13		opposition	1507 Mar 24 j 13:27	12°♁32'41	1°36'58
	1501 Jun 17 j 12:35	0°♁		min. Earth dist.	1507 Mar 25 j 14:21	12°♁24'41	4.44890 AU
retrograde	1501 Aug 15 j 13:58	5°♁12'17		direct	1507 May 26 j 06:08	7°♁30'32	
min. Earth dist.	1501 Oct 12 j 23:20	0°♁18'37	3.98413 AU	evening set	1507 Sep 29 j 16:01	25°♁03'42	
opposition	1501 Oct 14 j 06:58	0°♁07'52	-1°-30'-30	max. Earth dist.	1507 Oct 10 j 13:59	27°♁26'27	6.42683 AU
	1501 Oct 15 j 06:06	30°♁♁					
direct	1501 Dec 11 j 04:19	25°♁12'18		conjunction	1507 Oct 12 j 10:48	27°♁50'58	1°02'21
	1502 Feb 04 j 09:16	0°♁		minimum elong	1507 Oct 12 j 10:49	27°♁50'59	1°02'21
evening set	1502 Apr 16 j 02:44	14°♁42'15			1507 Oct 22 j 06:57	0°♁	
	1502 Apr 17 j 08:59	15°♁		morning rise	1507 Oct 25 j 03:16	0°♁37'11	
					1508 Jan 12 j 02:44	15°♁	
conjunction	1502 Apr 29 j 18:15	17°♁55'13	0°-48'-56	retrograde	1508 Feb 23 j 00:16	17°♁36'35	
minimum elong	1502 Apr 29 j 18:18	17°♁55'15	0°48'56		1508 Apr 05 j 09:10	15°♁♁	
max. Earth dist.	1502 May 02 j 01:03	18°♁27'34	6.02624 AU	opposition	1508 Apr 23 j 20:11	12°♁44'42	1°18'04
morning rise	1502 May 13 j 11:55	21°♁09'10		min. Earth dist.	1508 Apr 25 j 07:39	12°♁33'23	4.38931 AU
	1502 Jun 22 j 04:25	0°♁		direct	1508 Jun 25 j 11:46	7°♁44'09	
retrograde	1502 Sep 20 j 11:17	10°♁59'21			1508 Sep 07 j 13:56	15°♁	
opposition	1502 Nov 18 j 23:52	5°♁54'27	0°-48'-45	evening set	1508 Oct 29 j 08:31	25°♁33'13	
min. Earth dist.	1502 Nov 17 j 14:10	6°♁05'56	4.08474 AU	max. Earth dist.	1508 Nov 08 j 22:15	27°♁54'43	6.33562 AU
direct	1503 Jan 16 j 12:04	0°♁55'56					
evening set	1503 May 22 j 22:23	19°♁54'41		conjunction	1508 Nov 11 j 00:36	28°♁22'55	0°40'37
				minimum elong	1508 Nov 11 j 00:38	28°♁22'56	0°40'36
conjunction	1503 Jun 05 j 16:38	23°♁03'13	0°-14'-16		1508 Nov 18 j 06:00	0°♁	
minimum elong	1503 Jun 05 j 16:39	23°♁03'14	0°14'16	morning rise	1508 Nov 23 j 15:07	1°♁12'05	
behind sun begin	1503 Jun 05 j 12:59	23°♁01'09		retrograde	1509 Mar 26 j 16:56	18°♁52'58	
behind sun end	1503 Jun 05 j 20:18	23°♁05'19		opposition	1509 May 26 j 15:40	14°♁00'34	0°36'07
max. Earth dist.	1503 Jun 07 j 17:01	23°♁30'53	6.15243 AU	min. Earth dist.	1509 May 28 j 02:22	13°♁49'30	4.27136 AU
morning rise	1503 Jun 19 j 11:32	26°♁11'46		direct	1509 Jul 27 j 11:35	9°♁02'22	
	1503 Jul 06 j 12:33	0°♁		evening set	1509 Nov 29 j 22:58	27°♁21'54	
retrograde	1503 Oct 23 j 21:52	14°♁54'48		max. Earth dist.	1509 Dec 10 j 20:45	29°♁52'35	6.20057 AU
asc. node	1503 Oct 30 j 04:31	14°♁50'51			1509 Dec 11 j 09:34	0°♁	
opposition	1503 Dec 22 j 13:50	9°♁52'02	0°07'37				
min. Earth dist.	1503 Dec 21 j 12:29	10°♁00'36	4.22310 AU	conjunction	1509 Dec 12 j 15:10	0°♁17'06	0°06'07
direct	1504 Feb 20 j 06:07	4°♁50'52		minimum elong	1509 Dec 12 j 15:11	0°♁17'06	0°06'07

behind sun begin	1509 Dec 12 j 07:36	0°☾12'45		retrograde	1515 Oct 28 j 13:49	19°☾44'08	
behind sun end	1509 Dec 12 j 22:45	0°☾21'28		min. Earth dist.	1515 Dec 26 j 06:23	14°☾49'31	4.24257 AU
morning rise	1509 Dec 25 j 07:21	3°☾12'34		opposition	1515 Dec 27 j 05:35	14°☾41'42	0°15'39
desc. node	1510 Feb 13 j 05:06	13°☾52'07		direct	1516 Feb 25 j 03:09	9°☾40'11	
retrograde	1510 Apr 30 j 19:16	21°☾56'12		evening set	1516 Jun 30 j 22:59	27°☾56'41	
opposition	1510 Jun 30 j 12:46	17°☾01'45	0°-19'-52		1516 Jul 10 j 06:47	0°♈	
min. Earth dist.	1510 Jul 01 j 12:51	16°☾53'58	4.12787 AU				
direct	1510 Aug 30 j 02:42	12°☾06'05		conjunction	1516 Jul 14 j 13:24	0°♈56'42	0°28'44
	1510 Dec 28 j 17:57	0°♁		minimum elong	1516 Jul 14 j 13:22	0°♈56'41	0°28'44
evening set	1511 Jan 02 j 06:32	1°♁03'53		max. Earth dist.	1516 Jul 15 j 13:38	1°♈10'05	6.31118 AU
max. Earth dist.	1511 Jan 14 j 05:36	3°♁54'12	6.06151 AU	morning rise	1516 Jul 28 j 02:13	3°♈55'40	
					1516 Sep 21 j 05:09	15°♈	
conjunction	1511 Jan 15 j 02:00	4°♁06'20	0°-32'00	retrograde	1516 Nov 27 j 18:49	21°♈28'19	
minimum elong	1511 Jan 15 j 01:58	4°♁06'19	0°32'00	opposition	1517 Jan 26 j 18:32	16°♈29'35	1°04'04
morning rise	1511 Jan 27 j 22:57	7°♁09'49		min. Earth dist.	1517 Jan 26 j 11:21	16°♈31'57	4.36941 AU
	1511 Mar 03 j 09:56	15°♁			1517 Feb 07 j 05:34	15°♈♈	
retrograde	1511 Jun 06 j 23:14	27°♁01'21		direct	1517 Mar 28 j 23:17	11°♈26'43	
opposition	1511 Aug 06 j 08:17	22°♁03'30	-1°-12'-30		1517 May 17 j 23:30	15°♈	
min. Earth dist.	1511 Aug 06 j 10:59	22°♁02'37	4.00590 AU	evening set	1517 Aug 02 j 21:49	29°♈13'52	
direct	1511 Oct 04 j 10:21	17°♁09'41			1517 Aug 06 j 11:22	0°♁	
	1512 Jan 09 j 01:35	0°♁					
evening set	1512 Feb 06 j 16:55	6°♁40'51		conjunction	1517 Aug 16 j 05:00	2°♁06'38	0°56'05
				minimum elong	1517 Aug 16 j 04:58	2°♁06'37	0°56'05
conjunction	1512 Feb 19 j 18:17	9°♁50'05	0°-59'-55	max. Earth dist.	1517 Aug 16 j 00:40	2°♁04'17	6.41460 AU
minimum elong	1512 Feb 19 j 18:16	9°♁50'04	0°59'56	morning rise	1517 Aug 29 j 09:28	4°♁57'58	
max. Earth dist.	1512 Feb 20 j 05:26	9°♁56'50	5.96771 AU	retrograde	1517 Dec 28 j 01:20	21°♁52'42	
morning rise	1512 Mar 03 j 22:33	13°♁00'57		opposition	1518 Feb 26 j 08:39	16°♁57'33	1°32'29
	1512 May 26 j 10:41	0°♁		min. Earth dist.	1518 Feb 26 j 20:29	16°♁53'43	4.44359 AU
retrograde	1512 Jul 14 j 05:05	3°♁37'30		direct	1518 Apr 29 j 15:01	11°♁54'38	
	1512 Sep 01 j 12:55	30°♁♁		evening set	1518 Sep 03 j 08:10	29°♁26'53	
min. Earth dist.	1512 Sep 11 j 08:26	28°♁42'06	3.95167 AU		1518 Sep 05 j 21:48	0°♁	
opposition	1512 Sep 12 j 03:35	28°♁35'40	-1°-39'-12	max. Earth dist.	1518 Sep 15 j 01:27	1°♁58'39	6.45333 AU
direct	1512 Nov 09 j 05:23	23°♁41'47					
	1513 Jan 12 j 01:00	0°♁		conjunction	1518 Sep 16 j 07:48	2°♁15'04	1°07'15
evening set	1513 Mar 14 j 19:31	13°♁25'36		minimum elong	1518 Sep 16 j 07:48	2°♁15'04	1°07'16
				morning rise	1518 Sep 29 j 04:40	5°♁01'55	
conjunction	1513 Mar 28 j 05:00	16°♁38'59	-1°-5'-3	retrograde	1519 Jan 27 j 06:50	21°♁46'45	
minimum elong	1513 Mar 28 j 05:01	16°♁38'59	1°05'04	opposition	1519 Mar 28 j 22:06	16°♁54'00	1°35'48
max. Earth dist.	1513 Mar 29 j 23:30	17°♁04'35	5.95764 AU	min. Earth dist.	1519 Mar 30 j 01:24	16°♁45'14	4.44593 AU
morning rise	1513 Apr 10 j 17:26	19°♁53'54		direct	1519 May 30 j 16:02	11°♁51'58	
	1513 May 25 j 11:23	0°♁		evening set	1519 Oct 03 j 23:35	29°♁26'06	
retrograde	1513 Aug 20 j 20:01	10°♁27'05			1519 Oct 06 j 13:55	0°♁	
min. Earth dist.	1513 Oct 18 j 01:42	5°♁33'32	3.98809 AU	max. Earth dist.	1519 Oct 14 j 20:28	1°♁48'33	6.41842 AU
opposition	1513 Oct 19 j 10:23	5°♁22'24	-1°-26'-19				
direct	1513 Dec 16 j 08:07	0°♁26'28		conjunction	1519 Oct 16 j 17:56	2°♁13'29	1°00'14
	1514 Mar 31 j 00:30	15°♁		minimum elong	1519 Oct 16 j 17:58	2°♁13'30	1°00'14
evening set	1514 Apr 21 j 09:35	19°♁55'05		morning rise	1519 Oct 29 j 09:45	4°♁59'50	
					1519 Dec 17 j 21:23	15°♁	
conjunction	1514 May 05 j 01:49	23°♁07'58	0°-44'-43	retrograde	1520 Feb 27 j 11:06	22°♁03'18	
minimum elong	1514 May 05 j 01:52	23°♁08'00	0°44'44	opposition	1520 Apr 28 j 08:30	17°♁11'27	1°13'22
max. Earth dist.	1514 May 07 j 09:04	23°♁40'28	6.03621 AU	min. Earth dist.	1520 Apr 29 j 20:15	17°♁00'04	4.37594 AU
morning rise	1514 May 18 j 20:20	26°♁21'45			1520 May 16 j 03:59	15°♁♁	
	1514 Jun 03 j 15:49	0°♁		direct	1520 Jun 29 j 21:33	12°♁11'14	
retrograde	1514 Sep 25 j 08:28	16°♁04'47			1520 Aug 13 j 06:28	15°♁	
min. Earth dist.	1514 Nov 22 j 11:36	11°♁11'38	4.09945 AU	evening set	1520 Nov 02 j 17:52	0°♁03'53	
opposition	1514 Nov 23 j 22:01	10°♁59'54	0°-41'-2		1520 Nov 02 j 10:53	0°♁	
direct	1515 Jan 21 j 12:37	6°♁00'53		max. Earth dist.	1520 Nov 13 j 06:43	2°♁25'32	6.31824 AU
evening set	1515 May 28 j 01:48	24°♁55'18					
				conjunction	1520 Nov 15 j 09:41	2°♁54'12	0°36'19
conjunction	1515 Jun 10 j 20:02	28°♁03'00	0°-8'-41	minimum elong	1520 Nov 15 j 09:42	2°♁54'13	0°36'20
minimum elong	1515 Jun 10 j 20:03	28°♁03'00	0°08'41	morning rise	1520 Nov 28 j 00:21	5°♁44'08	
behind sun begin	1515 Jun 10 j 12:51	27°♁58'55		retrograde	1521 Mar 31 j 13:36	23°♁33'00	
behind sun end	1515 Jun 11 j 03:15	28°♁07'05		opposition	1521 May 31 j 10:48	18°♁40'27	0°28'43
max. Earth dist.	1515 Jun 12 j 19:14	28°♁29'52	6.17061 AU	min. Earth dist.	1521 Jun 01 j 21:39	18°♁29'18	4.25086 AU
	1515 Jun 19 j 09:48	0°♁		direct	1521 Aug 01 j 03:58	13°♁42'35	
morning rise	1515 Jun 24 j 14:29	1°♁10'31			1521 Nov 25 j 05:23	0°♁	
asc. node	1515 Sep 07 j 15:13	15°♁49'23		evening set	1521 Dec 04 j 13:07	2°♁07'43	

max. Earth dist.	1521 Dec 15 j 13:26	4°☾40'35	6.17878 AU	conjunction	1527 Jun 15 j 20:35	2°☾56'13	0°-3'-12
				minimum elong	1527 Jun 15 j 20:36	2°☾56'14	0°03'13
conjunction	1521 Dec 17 j 05:46	5°☾04'00	0°00'37	behind sun begin	1527 Jun 15 j 12:16	2°☾51'33	
minimum elong	1521 Dec 17 j 05:45	5°☾03'59	0°00'36	behind sun end	1527 Jun 16 j 04:55	3°☾00'55	
behind sun begin	1521 Dec 16 j 21:46	4°☾59'23		max. Earth dist.	1527 Jun 17 j 17:53	3°☾21'52	6.19405 AU
behind sun end	1521 Dec 17 j 13:44	5°☾08'36		morning rise	1527 Jun 29 j 14:29	6°☾02'27	
desc. node	1521 Dec 23 j 06:50	6°☾28'12		asc. node	1527 Jul 18 j 05:53	10°☾09'13	
morning rise	1521 Dec 29 j 22:25	8°☾00'35		retrograde	1527 Nov 01 j 23:40	24°☾25'28	
retrograde	1522 May 05 j 22:05	26°☾54'36		opposition	1527 Dec 31 j 17:54	19°☾23'30	0°23'17
opposition	1522 Jul 05 j 15:20	21°☾59'48	0°-28'-5	min. Earth dist.	1527 Dec 30 j 20:00	19°☾30'52	4.26496 AU
min. Earth dist.	1522 Jul 06 j 12:26	21°☾52'59	4.10665 AU	direct	1528 Feb 29 j 19:25	14°☾21'44	
direct	1522 Sep 03 j 23:09	17°☾04'32			1528 Jun 23 j 22:35	0°♁	
	1522 Dec 11 j 12:14	0°♁		evening set	1528 Jul 05 j 16:05	2°♁32'31	
evening set	1523 Jan 07 j 04:27	6°♁08'31					
max. Earth dist.	1523 Jan 19 j 07:56	9°♁02'10	6.04280 AU	conjunction	1528 Jul 19 j 05:32	5°♁31'18	0°33'21
				minimum elong	1528 Jul 19 j 05:30	5°♁31'17	0°33'21
conjunction	1523 Jan 20 j 00:31	9°♁12'04	0°-36'-56	max. Earth dist.	1528 Jul 20 j 00:44	5°♁41'52	6.33074 AU
minimum elong	1523 Jan 20 j 00:29	9°♁12'03	0°36'57	morning rise	1528 Aug 01 j 17:17	8°♁29'00	
morning rise	1523 Feb 01 j 22:26	12°♁16'47			1528 Sep 01 j 14:59	15°♁	
	1523 Feb 13 j 11:56	15°♁		retrograde	1528 Dec 02 j 01:46	25°♁54'17	
	1523 May 04 j 19:41	0°♁		opposition	1529 Jan 31 j 01:55	20°♁56'06	1°09'23
retrograde	1523 Jun 12 j 10:02	2°♁17'35		min. Earth dist.	1529 Jan 30 j 22:28	20°♁57'14	4.38472 AU
	1523 Jul 21 j 03:57	30°♁		direct	1529 Apr 02 j 12:00	15°♁53'09	
opposition	1523 Aug 11 j 16:44	27°♁19'13	-1°-18'-24		1529 Jul 21 j 06:51	0°♁	
min. Earth dist.	1523 Aug 11 j 16:18	27°♁19'22	3.99177 AU	evening set	1529 Aug 07 j 08:35	3°♁36'56	
direct	1523 Oct 09 j 14:48	22°♁25'34					
	1523 Dec 19 j 18:13	0°♁		conjunction	1529 Aug 20 j 14:43	6°♁28'52	0°58'41
evening set	1524 Feb 11 j 22:06	12°♁00'46		minimum elong	1529 Aug 20 j 14:41	6°♁28'51	0°58'40
				max. Earth dist.	1529 Aug 20 j 05:56	6°♁24'07	6.42437 AU
conjunction	1524 Feb 25 j 00:43	15°♁10'55	-1°-2'-15	morning rise	1529 Sep 02 j 18:03	9°♁19'22	
minimum elong	1524 Feb 25 j 00:41	15°♁10'54	1°02'15	retrograde	1530 Jan 01 j 05:09	26°♁11'08	
max. Earth dist.	1524 Feb 25 j 18:15	15°♁21'32	5.95977 AU	opposition	1530 Mar 02 j 14:17	21°♁16'22	1°34'29
morning rise	1524 Mar 09 j 06:04	18°♁22'40		min. Earth dist.	1530 Mar 03 j 04:23	21°♁11'47	4.44754 AU
	1524 Apr 30 j 05:22	0°♁		direct	1530 May 03 j 22:36	16°♁13'28	
retrograde	1524 Jul 19 j 16:46	9°♁02'18			1530 Aug 20 j 20:37	0°♁	
opposition	1524 Sep 17 j 13:08	4°♁00'00	-1°-39'-50	evening set	1530 Sep 07 j 15:27	3°♁45'23	
min. Earth dist.	1524 Sep 16 j 15:24	4°♁07'19	3.95132 AU	max. Earth dist.	1530 Sep 19 j 05:34	6°♁15'35	6.45114 AU
	1524 Oct 22 j 13:21	30°♁					
direct	1524 Nov 14 j 12:34	29°♁06'03		conjunction	1530 Sep 20 j 14:17	6°♁33'19	1°07'22
	1524 Dec 07 j 11:29	0°♁		minimum elong	1530 Sep 20 j 14:17	6°♁33'19	1°07'21
evening set	1525 Mar 20 j 04:32	18°♁49'13		morning rise	1530 Oct 03 j 10:13	9°♁19'55	
				retrograde	1531 Jan 31 j 13:43	26°♁06'18	
conjunction	1525 Apr 02 j 14:58	22°♁02'45	-1°-3'-35	opposition	1531 Apr 02 j 05:57	21°♁13'47	1°34'10
minimum elong	1525 Apr 02 j 15:00	22°♁02'46	1°03'35	min. Earth dist.	1531 Apr 03 j 11:21	21°♁04'23	4.43781 AU
max. Earth dist.	1525 Apr 04 j 11:59	22°♁29'48	5.96474 AU	direct	1531 Jun 04 j 00:22	16°♁11'59	
morning rise	1525 Apr 16 j 04:39	25°♁17'51			1531 Sep 20 j 11:35	0°♁	
	1525 May 06 j 06:56	0°♁		evening set	1531 Oct 08 j 06:37	3°♁48'36	
	1525 Aug 04 j 10:03	15°♁		max. Earth dist.	1531 Oct 18 j 23:54	6°♁09'38	6.40485 AU
retrograde	1525 Aug 26 j 00:00	15°♁45'43					
	1525 Sep 16 j 10:37	15°♁		conjunction	1531 Oct 21 j 00:24	6°♁36'19	0°57'48
min. Earth dist.	1525 Oct 23 j 04:03	10°♁52'41	4.00194 AU	minimum elong	1531 Oct 21 j 00:25	6°♁36'20	0°57'48
opposition	1525 Oct 24 j 14:51	10°♁40'49	-1°-21'-24	morning rise	1531 Nov 02 j 16:04	9°♁23'07	
direct	1525 Dec 21 j 13:33	5°♁44'29			1531 Nov 29 j 01:17	15°♁	
	1526 Mar 11 j 15:57	15°♁		retrograde	1532 Mar 03 j 01:00	26°♁32'30	
evening set	1526 Apr 26 j 16:41	25°♁08'12		opposition	1532 May 02 j 22:02	21°♁40'37	1°08'15
				min. Earth dist.	1532 May 04 j 10:32	21°♁28'59	4.35773 AU
conjunction	1526 May 10 j 09:33	28°♁20'28	0°-40'-13	direct	1532 Jul 04 j 09:14	16°♁40'39	
minimum elong	1526 May 10 j 09:36	28°♁20'30	0°40'14		1532 Oct 16 j 23:38	0°♁	
max. Earth dist.	1526 May 12 j 17:15	28°♁53'05	6.05552 AU	evening set	1532 Nov 07 j 04:05	4°♁38'16	
	1526 May 17 j 11:41	0°♁		max. Earth dist.	1532 Nov 17 j 18:45	7°♁01'35	6.29699 AU
morning rise	1526 May 24 j 04:17	1°♁33'27					
retrograde	1526 Sep 30 j 05:00	21°♁06'01		conjunction	1532 Nov 19 j 20:03	7°♁29'26	0°31'47
min. Earth dist.	1526 Nov 27 j 09:36	16°♁12'27	4.12179 AU	minimum elong	1532 Nov 19 j 20:05	7°♁29'27	0°31'47
opposition	1526 Nov 28 j 18:18	16°♁01'19	0°-33'-10	morning rise	1532 Dec 02 j 10:43	10°♁20'17	
direct	1527 Jun 26 j 13:44	11°♁01'54		retrograde	1533 Apr 05 j 10:22	28°♁18'24	
evening set	1527 Jun 02 j 02:35	29°♁49'40		opposition	1533 Jun 05 j 07:54	23°♁25'38	0°21'02
	1527 Jun 02 j 20:56	0°♁		min. Earth dist.	1533 Jun 06 j 16:58	23°♁15'04	4.22807 AU

direct	1533 Aug 05 j 20:20	18°♂28'12		direct	1539 Jan 31 j 10:29	15°♃56'20	
desc. node	1533 Nov 01 j 03:04	28°♂37'16			1539 May 16 j 23:56	0°♄	
	1533 Nov 07 j 19:35	0°♄		asc. node	1539 May 28 j 00:21	2°♄24'08	
evening set	1533 Dec 09 j 05:46	6°♄59'31		evening set	1539 Jun 07 j 01:23	4°♄38'14	
max. Earth dist.	1533 Dec 20 j 08:35	9°♄34'40	6.15645 AU				
conjunction	1533 Dec 21 j 22:35	9°♄56'50	0°-5'00	conjunction	1539 Jun 20 j 18:53	7°♄43'40	0°02'22
minimum elong	1533 Dec 21 j 22:35	9°♄56'50	0°05'01	minimum elong	1539 Jun 20 j 18:53	7°♄43'40	0°02'21
behind sun begin	1533 Dec 21 j 14:48	9°♄52'19		behind sun begin	1539 Jun 20 j 10:32	7°♄38'59	
behind sun end	1533 Dec 22 j 06:22	10°♄01'21		behind sun end	1539 Jun 21 j 03:14	7°♄48'21	
morning rise	1534 Jan 03 j 15:58	12°♄54'40		max. Earth dist.	1539 Jun 22 j 11:31	8°♄06'34	6.21528 AU
	1534 Apr 05 j 03:43	0°♁		morning rise	1539 Jul 04 j 12:14	10°♄48'42	
retrograde	1534 May 11 j 04:48	1°♁59'06		retrograde	1539 Nov 06 j 10:37	29°♄02'27	
	1534 Jun 16 j 11:19	30°♃		min. Earth dist.	1540 Jan 04 j 10:29	24°♄07'15	4.28426 AU
opposition	1534 Jul 10 j 20:23	27°♄03'49	0°-36'-13	opposition	1540 Jan 05 j 05:03	24°♄01'01	0°30'42
min. Earth dist.	1534 Jul 11 j 14:28	26°♄57'57	4.08666 AU	direct	1540 Mar 05 j 12:19	18°♄59'00	
direct	1534 Sep 08 j 23:44	22°♄08'50			1540 Jun 06 j 14:15	0°♃	
	1534 Nov 21 j 17:24	0°♁		evening set	1540 Jul 10 j 08:12	7°♃05'21	
evening set	1535 Jan 12 j 04:18	11°♁18'08		conjunction	1540 Jul 23 j 20:50	10°♃03'06	0°37'44
				minimum elong	1540 Jul 23 j 20:48	10°♃03'05	0°37'44
conjunction	1535 Jan 25 j 01:17	14°♁22'43	0°-41'-38	max. Earth dist.	1540 Jul 24 j 12:52	10°♃11'54	6.34669 AU
minimum elong	1535 Jan 25 j 01:15	14°♁22'42	0°41'40	morning rise	1540 Aug 06 j 07:21	12°♃59'41	
max. Earth dist.	1535 Jan 24 j 14:44	14°♁16'24	6.02712 AU		1540 Aug 15 j 14:00	15°♃	
	1535 Jan 27 j 15:30	15°♁			1540 Nov 22 j 06:45	0°♄	
morning rise	1535 Feb 07 j 00:01	17°♁28'31		retrograde	1540 Dec 06 j 06:45	0°♄18'58	
	1535 Apr 05 j 10:38	0°♃			1540 Dec 20 j 06:51	30°♃♃	
retrograde	1535 Jun 17 j 21:32	7°♃36'47		opposition	1541 Feb 04 j 08:57	25°♃21'21	1°14'19
opposition	1535 Aug 17 j 02:27	2°♃37'49	-1°-23'-40	min. Earth dist.	1541 Feb 04 j 07:23	25°♃21'52	4.39648 AU
min. Earth dist.	1535 Aug 16 j 22:44	2°♃39'03	3.98226 AU	direct	1541 Apr 06 j 21:48	20°♃18'23	
	1535 Sep 07 j 03:09	30°♃♁			1541 Jul 03 j 16:35	0°♄	
direct	1535 Oct 14 j 20:14	27°♁44'17		evening set	1541 Aug 11 j 19:33	8°♄00'04	
	1535 Nov 21 j 00:33	0°♃		max. Earth dist.	1541 Aug 24 j 11:04	10°♄44'00	6.43102 AU
evening set	1536 Feb 17 j 04:11	17°♃21'26		conjunction	1541 Aug 25 j 00:31	10°♄51'17	1°00'58
				minimum elong	1541 Aug 25 j 00:29	10°♄51'16	1°00'58
conjunction	1536 Mar 01 j 07:38	20°♃32'07	-1°-4'-3	morning rise	1541 Sep 07 j 02:48	13°♄41'06	
minimum elong	1536 Mar 01 j 07:37	20°♃32'06	1°04'04		1541 Dec 18 j 08:34	0°♄	
max. Earth dist.	1536 Mar 02 j 04:47	20°♃44'56	5.95694 AU	retrograde	1542 Jan 05 j 11:52	0°♄31'01	
morning rise	1536 Mar 14 j 14:16	23°♃44'30			1542 Jan 23 j 12:50	30°♃♄	
	1536 Apr 10 j 08:06	0°♃		opposition	1542 Mar 06 j 21:07	25°♄36'43	1°36'00
retrograde	1536 Jul 25 j 00:39	14°♃24'34		min. Earth dist.	1542 Mar 07 j 14:35	25°♄31'03	4.44885 AU
opposition	1536 Sep 22 j 21:24	9°♃21'45	-1°-39'-35	direct	1542 May 08 j 08:37	20°♄33'56	
min. Earth dist.	1536 Sep 21 j 20:15	9°♃30'14	3.95567 AU		1542 Aug 03 j 06:19	0°♄	
direct	1536 Nov 19 j 19:25	4°♃27'32		evening set	1542 Sep 11 j 23:29	8°♄06'14	
evening set	1537 Mar 25 j 12:27	24°♃08'23		max. Earth dist.	1542 Sep 23 j 09:31	10°♄34'29	6.44684 AU
				conjunction	1542 Sep 24 j 21:32	10°♄54'01	1°07'05
conjunction	1537 Apr 08 j 00:00	27°♃21'54	-1°-1'-36	minimum elong	1542 Sep 24 j 21:32	10°♄54'02	1°07'05
minimum elong	1537 Apr 08 j 00:02	27°♃21'55	1°01'36	morning rise	1542 Oct 07 j 16:44	13°♄40'31	
max. Earth dist.	1537 Apr 10 j 00:13	27°♃50'47	5.97568 AU		1543 Jan 18 j 06:43	0°♃	
	1537 Apr 19 j 00:27	0°♃		retrograde	1543 Feb 04 j 22:02	0°♃29'14	
morning rise	1537 Apr 21 j 14:26	0°♃36'50			1543 Feb 22 j 14:11	30°♃♄	
	1537 Jun 28 j 11:08	15°♃		opposition	1543 Apr 06 j 15:31	25°♄36'55	1°31'59
retrograde	1537 Aug 31 j 02:48	20°♃57'55		min. Earth dist.	1543 Apr 07 j 21:56	25°♄27'12	4.42843 AU
min. Earth dist.	1537 Oct 28 j 06:32	16°♃04'35	4.01803 AU	direct	1543 Jun 08 j 09:08	20°♄35'22	
opposition	1537 Oct 29 j 16:54	15°♃52'51	-1°-15'-54		1543 Sep 02 j 18:47	0°♃	
	1537 Nov 05 j 04:48	15°♃		evening set	1543 Oct 12 j 15:02	8°♃14'50	
direct	1537 Dec 26 j 18:35	10°♃56'05		max. Earth dist.	1543 Oct 23 j 08:25	10°♃36'23	6.39119 AU
	1538 Feb 15 j 12:12	15°♃		conjunction	1543 Oct 25 j 08:27	11°♃02'55	0°55'00
	1538 Apr 30 j 20:35	0°♃		minimum elong	1543 Oct 25 j 08:29	11°♃02'56	0°55'01
evening set	1538 May 01 j 21:33	0°♃14'28		morning rise	1543 Nov 06 j 23:40	13°♃50'08	
					1543 Nov 12 j 07:26	15°♃	
conjunction	1538 May 15 j 14:55	3°♃26'03	0°-35'-28		1544 Feb 09 j 23:35	0°♃	
minimum elong	1538 May 15 j 14:58	3°♃26'05	0°35'29	retrograde	1544 Mar 07 j 15:42	1°♃05'28	
max. Earth dist.	1538 May 17 j 22:47	3°♃58'35	6.07526 AU		1544 Apr 03 j 09:51	30°♃♄	
morning rise	1538 May 29 j 09:52	6°♃38'13		opposition	1544 May 07 j 13:06	26°♃13'40	1°02'38
retrograde	1538 Oct 04 j 21:40	26°♃00'29					
min. Earth dist.	1538 Dec 02 j 03:52	21°♃07'04	4.14316 AU				
opposition	1538 Dec 03 j 12:10	20°♃56'06	0°-25'-12				

min. Earth dist.	1544 May 09 j 01:48	26°♁01'59	4.34072 AU		1550 Apr 13 j 23:49	0°♁	
direct	1544 Jul 08 j 22:19	21°♁14'08		evening set	1550 May 06 j 22:39	5°♁11'37	
	1544 Sep 28 j 15:37	0°♁					
evening set	1544 Nov 11 j 15:43	9°♁16'15		conjunction	1550 May 20 j 16:16	8°♁22'31	0°-30'-38
max. Earth dist.	1544 Nov 22 j 06:12	11°♁40'11	6.27810 AU	minimum elong	1550 May 20 j 16:18	8°♁22'32	0°30'39
				max. Earth dist.	1550 May 22 j 21:09	8°♁53'11	6.09340 AU
conjunction	1544 Nov 24 j 07:30	12°♁08'10	0°27'01	morning rise	1550 Jun 03 j 11:26	11°♁33'53	
minimum elong	1544 Nov 24 j 07:32	12°♁08'11	0°27'00		1550 Sep 17 j 14:23	0°♁	
morning rise	1544 Dec 06 j 22:31	14°♁59'54		retrograde	1550 Oct 09 j 11:49	0°♁46'53	
	1545 Feb 23 j 14:32	0°♁			1550 Oct 31 j 05:10	30°R♁	
retrograde	1545 Apr 10 j 09:08	3°♁06'36		min. Earth dist.	1550 Dec 06 j 20:34	25°♁52'59	4.16167 AU
	1545 May 27 j 01:19	30°R♁		opposition	1550 Dec 08 j 02:33	25°♁42'48	0°-17'-22
opposition	1545 Jun 10 j 06:09	28°♁13'34	0°13'07	direct	1551 Feb 05 j 05:57	20°♁42'37	
min. Earth dist.	1545 Jun 11 j 13:08	28°♁03'39	4.20867 AU	asc. node	1551 Apr 08 j 00:44	26°♁17'22	
direct	1545 Aug 10 j 14:31	23°♁16'32			1551 Apr 28 j 18:26	0°♁	
desc. node	1545 Sep 10 j 08:07	24°♁43'39		evening set	1551 Jun 11 j 21:04	9°♁19'50	
	1545 Oct 18 j 14:55	0°♁					
evening set	1545 Dec 13 j 22:28	11°♁52'47		conjunction	1551 Jun 25 j 14:23	12°♁24'23	0°07'37
max. Earth dist.	1545 Dec 25 j 06:37	14°♁31'36	6.13846 AU	minimum elong	1551 Jun 25 j 14:23	12°♁24'23	0°07'37
				behind sun begin	1551 Jun 25 j 06:52	12°♁20'11	
conjunction	1545 Dec 26 j 15:49	14°♁51'02	0°-10'-30	behind sun end	1551 Jun 25 j 21:54	12°♁28'35	
minimum elong	1545 Dec 26 j 15:48	14°♁51'01	0°10'30	max. Earth dist.	1551 Jun 27 j 04:56	12°♁46'01	6.23293 AU
behind sun begin	1545 Dec 26 j 09:29	14°♁47'20		morning rise	1551 Jul 09 j 06:56	15°♁28'20	
behind sun end	1545 Dec 26 j 22:07	14°♁54'42			1551 Sep 23 j 04:21	0°♁	
morning rise	1546 Jan 08 j 09:35	17°♁49'50		retrograde	1551 Nov 10 j 18:55	3°♁34'14	
	1546 Mar 06 j 14:48	0°♁			1551 Dec 29 j 15:27	30°R♁	
retrograde	1546 May 16 j 10:43	7°♁03'01		opposition	1552 Jan 09 j 14:02	28°♁33'21	0°37'42
opposition	1546 Jul 16 j 00:47	2°♁07'19	0°-44'00	min. Earth dist.	1552 Jan 08 j 21:14	28°♁38'59	4.29969 AU
min. Earth dist.	1546 Jul 16 j 16:08	2°♁02'19	4.07176 AU	direct	1552 Mar 10 j 00:41	23°♁31'10	
	1546 Aug 01 j 22:02	30°R♁			1552 May 17 j 17:49	0°♁	
direct	1546 Sep 13 j 23:17	27°♁12'40		evening set	1552 Jul 14 j 22:30	11°♁34'16	
	1546 Oct 26 j 02:38	0°♁					
	1547 Jan 11 j 03:08	15°♁		conjunction	1552 Jul 28 j 10:05	14°♁31'08	0°41'48
evening set	1547 Jan 17 j 03:20	16°♁25'31		minimum elong	1552 Jul 28 j 10:03	14°♁31'07	0°41'47
				max. Earth dist.	1552 Jul 28 j 20:37	14°♁36'54	6.35878 AU
conjunction	1547 Jan 30 j 00:50	19°♁30'50	0°-45'-57		1552 Jul 30 j 14:48	15°♁	
minimum elong	1547 Jan 30 j 00:47	19°♁30'49	0°45'57	morning rise	1552 Aug 10 j 19:43	17°♁26'48	
max. Earth dist.	1547 Jan 29 j 17:36	19°♁26'30	6.01652 AU		1552 Oct 14 j 19:57	0°♁	
morning rise	1547 Feb 12 j 00:36	22°♁37'31		retrograde	1552 Dec 10 j 13:36	4°♁41'31	
	1547 Mar 16 j 01:13	0°♁			1553 Feb 06 j 16:04	30°R♁	
retrograde	1547 Jun 23 j 03:35	12°♁51'02		opposition	1553 Feb 08 j 15:37	29°♁44'23	1°18'43
opposition	1547 Aug 22 j 09:07	7°♁51'29	-1°-28'-5	min. Earth dist.	1553 Feb 08 j 17:27	29°♁43'47	4.40470 AU
min. Earth dist.	1547 Aug 22 j 01:22	7°♁54'03	3.97731 AU	direct	1553 Apr 11 j 08:42	24°♁41'20	
direct	1547 Oct 19 j 23:14	2°♁57'56			1553 Jun 12 j 20:29	0°♁	
evening set	1548 Feb 22 j 07:30	22°♁35'38		evening set	1553 Aug 16 j 05:31	12°♁21'42	
conjunction	1548 Mar 06 j 12:05	25°♁46'44	-1°-5'-16	conjunction	1553 Aug 29 j 09:39	15°♁12'24	1°02'51
minimum elong	1548 Mar 06 j 12:04	25°♁46'43	1°05'17	minimum elong	1553 Aug 29 j 09:38	15°♁12'24	1°02'51
max. Earth dist.	1548 Mar 07 j 14:27	26°♁02'41	5.95800 AU	max. Earth dist.	1553 Aug 28 j 18:00	15°♁03'56	6.43479 AU
morning rise	1548 Mar 19 j 19:36	28°♁59'29		morning rise	1553 Sep 11 j 10:45	18°♁01'38	
	1548 Mar 24 j 00:48	0°♁			1553 Nov 12 j 17:36	0°♁	
retrograde	1548 Jul 30 j 06:49	19°♁38'23		retrograde	1554 Jan 09 j 16:36	4°♁50'28	
min. Earth dist.	1548 Sep 26 j 23:37	14°♁43'55	3.96265 AU		1554 Mar 10 j 17:03	30°R♁	
opposition	1548 Sep 28 j 01:38	14°♁35'07	-1°-38'-29	opposition	1554 Mar 11 j 03:53	29°♁56'30	1°36'56
direct	1548 Nov 25 j 00:20	9°♁40'35		min. Earth dist.	1554 Mar 11 j 22:21	29°♁50'32	4.44831 AU
evening set	1549 Mar 30 j 16:27	29°♁18'24		direct	1554 May 12 j 15:54	24°♁53'51	
	1549 Apr 02 j 14:25	0°♁			1554 Jul 13 j 06:01	0°♁	
				evening set	1554 Sep 16 j 07:25	12°♁26'44	
conjunction	1549 Apr 13 j 04:57	2°♁31'48	0°-59'-10	max. Earth dist.	1554 Sep 27 j 14:37	14°♁53'42	6.44202 AU
minimum elong	1549 Apr 13 j 04:59	2°♁31'49	0°59'11				
max. Earth dist.	1549 Apr 15 j 07:22	3°♁01'53	5.98774 AU	conjunction	1554 Sep 29 j 04:35	15°♁14'22	1°06'25
morning rise	1549 Apr 26 j 20:18	5°♁46'32		minimum elong	1554 Sep 29 j 04:36	15°♁14'22	1°06'24
	1549 Jun 06 j 19:59	15°♁		morning rise	1554 Oct 11 j 23:06	18°♁00'46	
retrograde	1549 Sep 05 j 00:08	26°♁00'25			1554 Dec 13 j 00:56	0°♁	
min. Earth dist.	1549 Nov 02 j 03:29	21°♁07'16	4.03387 AU	retrograde	1555 Feb 09 j 07:53	4°♁51'46	
opposition	1549 Nov 03 j 14:32	20°♁55'19	-1°-10'-1	opposition	1555 Apr 11 j 01:27	29°♁59'37	1°29'15
direct	1549 Dec 31 j 17:07	15°♁58'08			1555 Apr 11 j 00:16	30°R♁	

min. Earth dist.	1555 Apr 12 j 09:39	29°♄49'20	4.41957 AU		1561 Mar 16 j 13:12	0°♄	
direct	1555 Jun 12 j 19:51	24°♄58'18		evening set	1561 Apr 04 j 22:14	4°♄31'04	
	1555 Aug 12 j 14:58	0°♄					
evening set	1555 Oct 16 j 22:50	12°♄39'55		conjunction	1561 Apr 18 j 11:38	7°♄44'29	0°-56'-16
	1555 Oct 27 j 12:42	15°♄		minimum elong	1561 Apr 18 j 11:41	7°♄44'31	0°56'18
max. Earth dist.	1555 Oct 27 j 14:21	15°♄00'55	6.37881 AU	max. Earth dist.	1561 Apr 20 j 14:28	8°♄14'45	5.99670 AU
				morning rise	1561 May 02 j 03:55	10°♄59'12	
conjunction	1555 Oct 29 j 15:52	15°♄28'20	0°51'53		1561 May 19 j 10:22	15°♄	
minimum elong	1555 Oct 29 j 15:54	15°♄28'21	0°51'53		1561 Aug 14 j 17:30	0°♄	
morning rise	1555 Nov 11 j 06:56	18°♄15'58		retrograde	1561 Sep 09 j 23:24	1°♄07'06	
	1556 Jan 09 j 06:19	0°♄			1561 Oct 06 j 00:45	30°♄	
retrograde	1556 Mar 12 j 05:40	5°♄36'48		min. Earth dist.	1561 Nov 07 j 03:00	26°♄13'50	4.04692 AU
opposition	1556 May 12 j 04:02	0°♄44'50	0°56'38	opposition	1561 Nov 08 j 13:41	26°♄01'59	-1°-3'-34
min. Earth dist.	1556 May 13 j 15:43	0°♄33'28	4.32536 AU	direct	1562 Jan 05 j 19:09	21°♄04'23	
	1556 May 18 j 01:14	30°♄			1562 Mar 25 j 20:06	0°♄	
direct	1556 Jul 13 j 10:03	25°♄45'35		evening set	1562 May 12 j 02:05	10°♄14'10	
	1556 Sep 06 j 03:47	0°♄					
evening set	1556 Nov 16 j 02:08	13°♄51'21		conjunction	1562 May 25 j 20:14	13°♄24'33	0°-25'-29
max. Earth dist.	1556 Nov 26 j 19:25	16°♄17'24	6.26093 AU	minimum elong	1562 May 25 j 20:16	13°♄24'34	0°25'30
				max. Earth dist.	1562 May 28 j 01:32	13°♄55'20	6.10959 AU
conjunction	1556 Nov 28 j 18:02	16°♄43'58	0°22'05	morning rise	1562 Jun 08 j 15:20	16°♄35'11	
minimum elong	1556 Nov 28 j 18:03	16°♄43'59	0°22'05		1562 Aug 13 j 02:31	0°♄	
morning rise	1556 Dec 11 j 09:05	19°♄36'28		retrograde	1562 Oct 14 j 05:26	5°♄39'33	
	1557 Jan 29 j 16:21	0°♄		opposition	1562 Dec 12 j 19:28	0°♄35'54	0°-9'-15
retrograde	1557 Apr 15 j 07:15	7°♄51'12		min. Earth dist.	1562 Dec 11 j 14:36	0°♄45'41	4.17934 AU
opposition	1557 Jun 15 j 03:20	2°♄57'54	0°05'09		1562 Dec 17 j 05:40	30°♄	
min. Earth dist.	1557 Jun 16 j 09:19	2°♄48'18	4.19055 AU	direct	1563 Feb 10 j 02:27	25°♄35'28	
	1557 Jul 09 j 23:00	30°♄		asc. node	1563 Feb 15 j 06:22	25°♄38'07	
desc. node	1557 Jul 21 j 01:05	29°♄00'26			1563 Apr 05 j 13:26	0°♄	
direct	1557 Aug 15 j 07:58	28°♄01'13		evening set	1563 Jun 16 j 19:34	14°♄08'17	
	1557 Sep 20 j 06:26	0°♄					
evening set	1557 Dec 18 j 14:12	16°♄42'05		conjunction	1563 Jun 30 j 12:13	17°♄11'50	0°12'58
max. Earth dist.	1557 Dec 30 j 00:08	19°♄22'36	6.12083 AU	minimum elong	1563 Jun 30 j 12:12	17°♄11'49	0°12'59
				behind sun begin	1563 Jun 30 j 07:19	17°♄09'06	
conjunction	1557 Dec 31 j 07:48	19°♄41'13	0°-15'-53	behind sun end	1563 Jun 30 j 17:04	17°♄14'32	
minimum elong	1557 Dec 31 j 07:47	19°♄41'12	0°15'54	max. Earth dist.	1563 Jul 01 j 22:43	17°♄31'08	6.25079 AU
behind sun begin	1557 Dec 31 j 06:01	19°♄40'10		morning rise	1563 Jul 14 j 04:11	20°♄14'44	
behind sun end	1557 Dec 31 j 09:32	19°♄42'14			1563 Aug 30 j 03:14	0°♄	
morning rise	1558 Jan 13 j 02:21	22°♄41'04		retrograde	1563 Nov 15 j 05:47	8°♄12'45	
	1558 Feb 14 j 13:20	0°♄		min. Earth dist.	1564 Jan 13 j 11:03	3°♄17'16	4.31664 AU
retrograde	1558 May 21 j 13:43	12°♄03'06		opposition	1564 Jan 14 j 01:37	3°♄12'24	0°44'40
opposition	1558 Jul 21 j 03:41	7°♄06'52	0°-51'-28		1564 Feb 09 j 05:58	30°♄	
min. Earth dist.	1558 Jul 21 j 15:24	7°♄03'03	4.05611 AU	direct	1564 Mar 14 j 16:48	28°♄10'03	
direct	1558 Sep 18 j 20:44	2°♄12'28			1564 Apr 18 j 14:29	0°♄	
	1558 Dec 25 j 00:57	15°♄			1564 Jul 14 j 06:44	15°♄	
evening set	1559 Jan 22 j 01:21	21°♄29'32		evening set	1564 Jul 19 j 14:53	16°♄09'15	
conjunction	1559 Feb 03 j 23:46	24°♄35'46	0°-49'-54	conjunction	1564 Aug 02 j 01:36	19°♄05'06	0°45'43
minimum elong	1559 Feb 03 j 23:44	24°♄35'45	0°49'55	minimum elong	1564 Aug 02 j 01:33	19°♄05'05	0°45'43
max. Earth dist.	1559 Feb 03 j 21:52	24°♄34'38	6.00430 AU	max. Earth dist.	1564 Aug 02 j 10:27	19°♄09'56	6.37395 AU
morning rise	1559 Feb 17 j 00:23	27°♄43'24		morning rise	1564 Aug 15 j 09:51	21°♄59'37	
	1559 Feb 26 j 14:48	0°♄			1564 Sep 23 j 05:30	0°♄	
retrograde	1559 Jun 28 j 12:21	18°♄03'07		retrograde	1564 Dec 14 j 20:01	9°♄08'35	
opposition	1559 Aug 27 j 15:19	13°♄03'02	-1°-31'-52	opposition	1565 Feb 12 j 23:42	4°♄12'00	1°22'46
min. Earth dist.	1559 Aug 27 j 05:43	13°♄06'14	3.96986 AU	min. Earth dist.	1565 Feb 13 j 02:54	4°♄10'57	4.41737 AU
direct	1559 Oct 25 j 03:07	8°♄09'30			1565 Mar 23 j 05:11	30°♄	
evening set	1560 Feb 27 j 11:05	27°♄49'00		direct	1565 Apr 15 j 19:46	29°♄09'02	
	1560 Mar 07 j 12:18	0°♄		evening set	1565 May 09 j 17:08	0°♄	
					1565 Aug 20 j 16:21	16°♄46'21	
conjunction	1560 Mar 11 j 16:43	1°♄00'42	-1°-6'00				
minimum elong	1560 Mar 11 j 16:43	1°♄00'42	1°06'00	conjunction	1565 Sep 02 j 19:11	19°♄36'12	1°04'26
max. Earth dist.	1560 Mar 12 j 22:41	1°♄18'49	5.95586 AU	minimum elong	1565 Sep 02 j 19:09	19°♄36'11	1°04'26
morning rise	1560 Mar 25 j 01:29	4°♄14'06		max. Earth dist.	1565 Sep 01 j 23:30	19°♄25'33	6.44404 AU
retrograde	1560 Aug 04 j 12:02	24°♄53'01		morning rise	1565 Sep 15 j 19:18	22°♄24'39	
min. Earth dist.	1560 Oct 02 j 01:38	19°♄59'02	3.96635 AU		1565 Oct 22 j 19:36	0°♄	
opposition	1560 Oct 03 j 06:05	19°♄49'24	-1°-36'-39	retrograde	1566 Jan 13 j 23:13	9°♄10'40	
direct	1560 Nov 30 j 02:47	14°♄54'37		opposition	1566 Mar 15 j 11:03	4°♄17'00	1°37'22

min. Earth dist.	1566 Mar 16 j 08:10	4°♁10'12	4.45371 AU	evening set	1572 Mar 03 j 13:43	2°♃58'48	
	1566 Apr 24 j 12:22	30°♃♁					
direct	1566 May 17 j 02:11	29°♁14'28		conjunction	1572 Mar 16 j 20:33	6°♃11'22	-1°-6'-10
	1566 Jun 08 j 19:03	0°♁		minimum elong	1572 Mar 16 j 20:33	6°♃11'22	1°06'11
evening set	1566 Sep 20 j 13:52	16°♁45'42		max. Earth dist.	1572 Mar 18 j 05:20	6°♃31'12	5.94976 AU
max. Earth dist.	1566 Oct 01 j 19:00	19°♁11'35	6.44306 AU	morning rise	1572 Mar 30 j 06:38	9°♃25'37	
					1572 Aug 01 j 23:05	0°♃	
conjunction	1566 Oct 03 j 10:19	19°♁32'58	1°05'25	retrograde	1572 Aug 09 j 16:43	0°♃06'00	
minimum elong	1566 Oct 03 j 10:20	19°♁32'59	1°05'25		1572 Aug 17 j 10:15	30°♃♁	
morning rise	1566 Oct 16 j 03:57	22°♁19'01		min. Earth dist.	1572 Oct 07 j 03:37	25°♃12'09	3.96621 AU
	1566 Nov 22 j 09:48	0°♃		opposition	1572 Oct 08 j 09:35	25°♃01'58	-1°-34'-5
retrograde	1567 Feb 13 j 13:27	9°♃10'35		direct	1572 Dec 05 j 05:49	20°♃06'50	
opposition	1567 Apr 15 j 09:32	4°♃18'30	1°26'04		1573 Feb 25 j 20:45	0°♃	
min. Earth dist.	1567 Apr 16 j 17:54	4°♃08'11	4.41616 AU	evening set	1573 Apr 10 j 04:10	9°♃43'23	
	1567 May 26 j 07:20	30°♃♁					
direct	1567 Jun 17 j 02:45	29°♁17'23		conjunction	1573 Apr 23 j 18:50	12°♃57'04	0°-52'-56
	1567 Jul 09 j 01:49	0°♃		minimum elong	1573 Apr 23 j 18:52	12°♃57'05	0°52'56
	1567 Oct 12 j 01:07	15°♃		max. Earth dist.	1573 Apr 26 j 01:12	13°♃29'21	6.00273 AU
evening set	1567 Oct 21 j 04:01	16°♃59'23			1573 May 02 j 10:07	15°♃	
max. Earth dist.	1567 Oct 31 j 18:45	19°♃20'15	6.37112 AU	morning rise	1573 May 07 j 11:53	16°♃11'51	
					1573 Jul 11 j 17:56	0°♁	
conjunction	1567 Nov 02 j 20:33	19°♃47'54	0°48'34	retrograde	1573 Sep 15 j 00:56	6°♁14'27	
minimum elong	1567 Nov 02 j 20:35	19°♃47'55	0°48'34	min. Earth dist.	1573 Nov 12 j 02:21	1°♁21'14	4.05826 AU
morning rise	1567 Nov 15 j 11:18	22°♃35'43		opposition	1573 Nov 13 j 13:13	1°♁09'21	0°-56'-37
	1567 Dec 20 j 11:10	0°♃♁			1573 Nov 22 j 02:28	30°♃♁	
retrograde	1568 Mar 16 j 17:45	10°♃00'42		direct	1574 Jan 10 j 20:56	26°♃11'20	
opposition	1568 May 16 j 15:38	5°♃08'38	0°50'29		1574 Mar 01 j 05:27	0°♁	
min. Earth dist.	1568 May 18 j 04:34	4°♃56'52	4.31347 AU	evening set	1574 May 17 j 06:41	15°♁17'48	
direct	1568 Jul 17 j 20:33	0°♃09'37					
evening set	1568 Nov 20 j 09:01	18°♃18'07		conjunction	1574 May 31 j 00:57	18°♁27'34	0°-20'-6
max. Earth dist.	1568 Dec 01 j 01:38	20°♃44'19	6.24573 AU	minimum elong	1574 May 31 j 00:58	18°♁27'35	0°20'08
				max. Earth dist.	1574 Jun 02 j 04:44	18°♁57'21	6.12512 AU
conjunction	1568 Dec 03 j 00:54	21°♃11'20	0°17'13	morning rise	1574 Jun 13 j 20:12	21°♁37'30	
minimum elong	1568 Dec 03 j 00:55	21°♃11'20	0°17'14		1574 Jul 22 j 07:57	0°♁	
morning rise	1568 Dec 15 j 16:17	24°♃04'34		retrograde	1574 Oct 18 j 21:26	10°♁33'02	
	1569 Jan 11 j 10:57	0°♁		min. Earth dist.	1574 Dec 16 j 08:34	5°♁39'10	4.19728 AU
retrograde	1569 Apr 19 j 23:54	12°♁26'54		opposition	1574 Dec 17 j 12:43	5°♁29'38	0°-1'-3
desc. node	1569 Jun 01 j 23:32	9°♁45'38		asc. node	1574 Dec 24 j 21:49	4°♁30'06	
opposition	1569 Jun 19 j 20:21	7°♁33'13	0°-2'-33	direct	1575 Feb 14 j 23:39	0°♁28'46	
min. Earth dist.	1569 Jun 21 j 00:24	7°♁24'13	4.17292 AU	evening set	1575 Jun 21 j 18:35	18°♁56'48	
direct	1569 Aug 19 j 19:45	2°♁36'46					
evening set	1569 Dec 23 j 02:04	21°♁22'26		conjunction	1575 Jul 05 j 10:44	21°♁59'17	0°18'16
				minimum elong	1575 Jul 05 j 10:42	21°♁59'16	0°18'16
conjunction	1570 Jan 04 j 20:13	24°♁22'33	0°-20'-59	max. Earth dist.	1575 Jul 06 j 19:17	22°♁17'26	6.26966 AU
minimum elong	1570 Jan 04 j 20:12	24°♁22'32	0°21'00	morning rise	1575 Jul 19 j 01:40	25°♁00'56	
max. Earth dist.	1570 Jan 03 j 15:53	24°♁05'49	6.10232 AU		1575 Aug 11 j 03:37	0°♁	
morning rise	1570 Jan 17 j 15:20	27°♁23'27		retrograde	1575 Nov 19 j 17:14	12°♁50'29	
	1570 Jan 28 j 20:38	0°♁		opposition	1576 Jan 18 j 13:22	7°♁50'37	0°51'20
	1570 Apr 21 j 08:08	15°♁		min. Earth dist.	1576 Jan 18 j 01:01	7°♁54'43	4.33447 AU
retrograde	1570 May 26 j 15:29	16°♁54'55		direct	1576 Mar 19 j 09:17	2°♁48'05	
	1570 Jul 01 j 01:15	15°♁			1576 Jun 27 j 03:15	15°♁	
opposition	1570 Jul 26 j 02:59	11°♁58'13	0°-58'-21	evening set	1576 Jul 24 j 07:04	20°♁42'51	
min. Earth dist.	1570 Jul 26 j 13:38	11°♁54'45	4.03821 AU				
direct	1570 Sep 23 j 16:23	7°♁03'58		conjunction	1576 Aug 06 j 16:34	23°♁37'37	0°49'23
	1570 Dec 06 j 05:45	15°♁		minimum elong	1576 Aug 06 j 16:32	23°♁37'36	0°49'23
evening set	1571 Jan 26 j 20:48	26°♁26'28		max. Earth dist.	1576 Aug 06 j 20:45	23°♁39'53	6.38889 AU
				morning rise	1576 Aug 19 j 23:46	26°♁31'04	
conjunction	1571 Feb 08 j 20:06	29°♁33'49	0°-53'-22		1576 Sep 05 j 07:51	0°♁	
minimum elong	1571 Feb 08 j 20:04	29°♁33'48	0°53'23	retrograde	1576 Dec 19 j 03:07	13°♁34'35	
max. Earth dist.	1571 Feb 08 j 21:00	29°♁34'21	5.98867 AU	opposition	1577 Feb 17 j 08:07	8°♁38'24	1°26'22
	1571 Feb 10 j 15:32	0°♁		min. Earth dist.	1577 Feb 17 j 14:02	8°♁36'28	4.42838 AU
morning rise	1571 Feb 21 j 21:55	2°♁42'39		direct	1577 Apr 20 j 07:42	3°♁35'22	
retrograde	1571 Jul 03 j 17:24	23°♁09'44		evening set	1577 Aug 25 j 02:51	21°♁10'15	
opposition	1571 Sep 01 j 18:33	18°♁09'10	-1°-34'-53	max. Earth dist.	1577 Sep 06 j 07:03	23°♁47'42	6.45008 AU
min. Earth dist.	1571 Sep 01 j 05:41	18°♁13'27	3.95847 AU				
direct	1571 Oct 30 j 01:34	13°♁15'33		conjunction	1577 Sep 07 j 04:47	23°♁59'27	1°05'40
	1572 Feb 20 j 01:34	0°♁		minimum elong	1577 Sep 07 j 04:46	23°♁59'26	1°05'39

morning rise	1577 Sep 20 j 03:38	26°♎47'13		direct	1583 Nov 14 08:56	18°♋38'47	
	1577 Oct 05 j 07:25	0°♌			1584 Feb 11 13:55	0°♍	
retrograde	1578 Jan 18 j 05:05	13°♌31'44		evening set	1584 Mar 18 21:58	8°♍23'07	
opposition	1578 Mar 19 j 18:55	8°♌38'26	1°37'18				
min. Earth dist.	1578 Mar 20 j 17:31	8°♌31'10	4.45444 AU	conjunction	1584 Apr 01 06:06	11°♍36'10	-1°-5'-51
direct	1578 May 21 j 10:36	3°♌36'05		minimum elong	1584 Apr 01 06:07	11°♍36'10	1°05'52
evening set	1578 Sep 24 j 21:44	21°♌07'24		max. Earth dist.	1584 Apr 02 20:46	11°♍59'31	5.95170 AU
max. Earth dist.	1578 Oct 05 j 22:28	23°♌31'12	6.43823 AU	morning rise	1584 Apr 14 17:14	14°♍50'48	
					1584 Jun 25 07:47	0°♎	
conjunction	1578 Oct 07 j 17:18	23°♌54'33	1°04'03	retrograde	1584 Aug 25 01:01	5°♎28'31	
minimum elong	1578 Oct 07 j 17:19	23°♌54'33	1°04'03	min. Earth dist.	1584 Oct 22 08:44	0°♎34'55	3.97569 AU
morning rise	1578 Oct 20 j 10:27	26°♌40'35		opposition	1584 Oct 23 16:19	0°♎24'11	-1°-30'-39
	1578 Nov 04 j 23:23	0°♎			1584 Oct 26 15:36	30°♎	
retrograde	1579 Feb 18 j 01:09	13°♎34'53		direct	1584 Dec 20 13:00	25°♎28'44	
opposition	1579 Apr 19 j 20:27	8°♎42'57	1°22'23		1585 Feb 11 22:59	0°♎	
min. Earth dist.	1579 Apr 21 j 07:03	8°♎31'55	4.40595 AU	evening set	1585 Apr 25 12:42	15°♎01'31	
direct	1579 Jun 21 j 13:43	3°♎42'03			1585 Apr 25 10:06	15°♎	
	1579 Sep 25 j 04:37	15°♎					
evening set	1579 Oct 25 j 12:06	21°♎26'48		conjunction	1585 May 09 03:58	18°♎14'47	0°-49'-9
max. Earth dist.	1579 Nov 05 j 01:58	23°♎47'40	6.35625 AU	minimum elong	1585 May 09 04:01	18°♎14'49	0°49'09
				max. Earth dist.	1585 May 11 10:50	18°♎47'13	6.01861 AU
conjunction	1579 Nov 07 j 04:30	24°♎15'49	0°44'52	morning rise	1585 May 22 21:48	21°♎29'07	
minimum elong	1579 Nov 07 j 04:32	24°♎15'50	0°44'51		1585 Jun 29 21:59	0°♏	
morning rise	1579 Nov 19 j 19:06	27°♎04'12		retrograde	1585 Sep 29 22:24	11°♏22'14	
	1579 Dec 03 j 03:51	0°♏		min. Earth dist.	1585 Nov 27 00:45	6°♏29'14	4.07870 AU
retrograde	1580 Mar 21 j 09:24	14°♏36'02		opposition	1585 Nov 28 12:10	6°♏17'09	0°-49'-17
opposition	1580 May 21 j 08:11	9°♏43'51	0°43'46	direct	1586 Jan 25 22:57	1°♏18'38	
min. Earth dist.	1580 May 22 j 19:57	9°♏32'26	4.29481 AU	evening set	1586 Jun 01 09:49	20°♏18'40	
direct	1580 Jul 22 j 08:17	4°♏45'12					
evening set	1580 Nov 24 j 21:13	22°♏58'45		conjunction	1586 Jun 15 04:08	23°♏27'23	0°-14'-41
max. Earth dist.	1580 Dec 05 j 15:57	25°♏26'52	6.22482 AU	minimum elong	1586 Jun 15 04:08	23°♏27'24	0°14'42
				behind sun begin	1586 Jun 15 01:02	23°♏25'38	
conjunction	1580 Dec 07 j 13:12	25°♏52'53	0°11'59	behind sun end	1586 Jun 15 07:15	23°♏29'10	
minimum elong	1580 Dec 07 j 13:13	25°♏52'53	0°11'59	max. Earth dist.	1586 Jun 17 06:21	23°♏56'08	6.14835 AU
behind sun begin	1580 Dec 07 j 07:39	25°♏49'42		morning rise	1586 Jun 28 22:57	26°♏36'05	
behind sun end	1580 Dec 07 j 18:47	25°♏56'04			1586 Jul 14 03:24	0°♐	
morning rise	1580 Dec 20 j 04:55	28°♏47'08		retrograde	1586 Nov 02 12:14	15°♐20'29	
	1580 Dec 25 j 12:58	0°♑		asc. node	1586 Nov 13 12:33	15°♐08'18	
desc. node	1581 Apr 11 j 03:22	17°♑01'07		min. Earth dist.	1586 Dec 31 01:58	10°♐26'08	4.22078 AU
retrograde	1581 Apr 25 j 02:17	17°♑19'22		opposition	1587 Jan 01 03:33	10°♐17'29	0°06'55
opposition	1581 Jun 24 j 20:29	12°♑25'24	0°-10'-46	direct	1587 Mar 01 19:57	5°♐16'18	
min. Earth dist.	1581 Jun 25 j 23:42	12°♑16'39	4.15112 AU	evening set	1587 Jul 06 14:00	23°♐37'52	
direct	1581 Aug 24 j 16:10	7°♑29'19					
evening set	1581 Dec 27 j 21:12	26°♑21'12		conjunction	1587 Jul 20 05:19	26°♐39'05	0°23'17
				minimum elong	1587 Jul 20 05:17	26°♐39'04	0°23'16
conjunction	1582 Jan 09 j 15:57	29°♑22'28	0°-26'-16	max. Earth dist.	1587 Jul 21 10:03	26°♐55'01	6.29140 AU
minimum elong	1582 Jan 09 j 15:55	29°♑22'27	0°26'17	morning rise	1587 Aug 02 19:18	29°♐39'22	
max. Earth dist.	1582 Jan 08 j 14:25	29°♑07'20	6.08167 AU		1587 Aug 04 08:50	0°♒	
	1582 Jan 12 j 07:18	0°♒			1587 Oct 26 00:56	15°♒	
morning rise	1582 Jan 22 j 11:56	2°♒24'38		retrograde	1587 Dec 03 22:56	17°♒20'11	
	1582 Mar 22 j 02:48	15°♒			1588 Jan 11 19:16	15°♒♑	
retrograde	1582 May 31 j 23:08	22°♒06'08		opposition	1588 Feb 01 21:46	12°♒20'47	0°57'28
opposition	1582 Jul 31 j 09:44	17°♒09'00	-1°-5'-15	min. Earth dist.	1588 Feb 01 11:36	12°♒24'10	4.35290 AU
min. Earth dist.	1582 Jul 31 j 16:25	17°♒06'49	4.02094 AU	direct	1588 Apr 02 21:41	7°♒18'03	
	1582 Aug 17 j 09:45	15°♒			1588 Jun 18 06:52	15°♒	
direct	1582 Sep 28 j 17:04	12°♒15'01		evening set	1588 Aug 07 19:31	25°♒08'31	
	1582 Nov 19 04:46	15°♒					
	1583 Feb 03 19:57	0°♋		conjunction	1588 Aug 21 03:57	28°♒02'16	0°52'38
evening set	1583 Feb 10 23:48	1°♋42'35		minimum elong	1588 Aug 21 03:55	28°♒02'15	0°52'38
				max. Earth dist.	1588 Aug 21 04:06	28°♒02'21	6.40262 AU
conjunction	1583 Feb 24 00:03	4°♋50'56	0°-56'-39		1588 Aug 30 04:44	0°♌	
minimum elong	1583 Feb 24 00:01	4°♋50'55	0°56'41	morning rise	1588 Sep 03 09:50	0°♌54'39	
max. Earth dist.	1583 Feb 24 05:40	4°♋54'20	5.97644 AU	retrograde	1589 Jan 02 07:39	17°♌53'32	
morning rise	1583 Mar 09 02:59	8°♋00'50		opposition	1589 Mar 03 13:39	12°♌57'50	1°29'23
retrograde	1583 Jul 19 04:49	28°♋33'36		min. Earth dist.	1589 Mar 03 22:42	12°♌54'53	4.43662 AU
opposition	1583 Sep 17 04:23	23°♋32'27	-1°-37'-17	direct	1589 May 04 16:45	7°♌54'49	
min. Earth dist.	1583 Sep 16 12:33	23°♋37'45	3.95296 AU	evening set	1589 Sep 08 10:43	25°♌28'13	

max. Earth dist.	1589 Sep 20 08:37	28° \mathbb{M} 02'23	6.45199 AU	morning rise	1595 Mar 14 09:47	13° \mathbb{K} 21'27	
					1595 Jun 03 12:52	0° \mathbb{Y}	
conjunction	1589 Sep 21 11:34	28° \mathbb{M} 16'57	1°06'31	retrograde	1595 Jul 24 16:03	3° \mathbb{Y} 57'18	
minimum elong	1589 Sep 21 11:33	28° \mathbb{M} 16'57	1°06'31		1595 Sep 14 12:32	30° \mathbb{R} \mathbb{K}	
	1589 Sep 29 10:15	0° \mathbb{L}		opposition	1595 Sep 22 14:04	28° \mathbb{K} 55'38	-1°-38'-48
morning rise	1589 Oct 04 09:38	1° \mathbb{L} 04'18		min. Earth dist.	1595 Sep 21 19:24	29° \mathbb{K} 01'53	3.95272 AU
retrograde	1590 Feb 01 11:34	17° \mathbb{L} 48'53		direct	1595 Nov 19 16:01	24° \mathbb{K} 01'53	
opposition	1590 Apr 03 01:34	12° \mathbb{L} 55'49	1°36'45		1596 Jan 20 15:02	0° \mathbb{Y}	
min. Earth dist.	1590 Apr 04 02:53	12° \mathbb{L} 47'41	4.45014 AU	evening set	1596 Mar 24 06:19	13° \mathbb{Y} 45'19	
direct	1590 Jun 04 18:27	7° \mathbb{L} 53'33					
evening set	1590 Oct 09 04:04	25° \mathbb{L} 26'28		conjunction	1596 Apr 06 15:22	16° \mathbb{Y} 58'30	-1°-4'-58
max. Earth dist.	1590 Oct 20 03:26	27° \mathbb{L} 49'53	6.42801 AU	minimum elong	1596 Apr 06 15:23	16° \mathbb{Y} 58'31	1°04'59
				max. Earth dist.	1596 Apr 08 08:21	17° \mathbb{Y} 23'11	5.95852 AU
conjunction	1590 Oct 21 23:12	28° \mathbb{L} 13'48	1°02'21	morning rise	1596 Apr 20 03:43	20° \mathbb{Y} 13'19	
minimum elong	1590 Oct 21 23:13	28° \mathbb{L} 13'49	1°02'21		1596 Jun 02 08:01	0° \mathbb{B}	
	1590 Oct 30 01:29	0° \mathbb{M}		retrograde	1596 Aug 30 05:07	10° \mathbb{B} 46'11	
morning rise	1590 Nov 03 15:40	1° \mathbb{M} 00'01		min. Earth dist.	1596 Oct 27 11:16	5° \mathbb{B} 53'02	3.98877 AU
	1591 Jan 18 13:36	15° \mathbb{M}		opposition	1596 Oct 28 20:55	5° \mathbb{B} 41'35	-1°-26'-30
retrograde	1591 Mar 04 10:56	17° \mathbb{M} 58'55		direct	1596 Dec 25 18:22	0° \mathbb{B} 45'45	
	1591 Apr 19 02:52	15° \mathbb{R} \mathbb{M}			1597 Apr 08 00:42	15° \mathbb{B}	
opposition	1591 May 04 07:29	13° \mathbb{M} 07'02	1°18'17	evening set	1597 Apr 30 19:12	20° \mathbb{B} 13'52	
min. Earth dist.	1591 May 05 18:33	12° \mathbb{M} 55'52	4.39046 AU				
direct	1591 Jul 05 22:17	8° \mathbb{M} 06'28		conjunction	1597 May 14 11:16	23° \mathbb{B} 26'38	0°-45'-1
	1591 Sep 15 22:38	15° \mathbb{M}		minimum elong	1597 May 14 11:18	23° \mathbb{B} 26'40	0°45'02
evening set	1591 Nov 08 20:58	25° \mathbb{M} 55'34		max. Earth dist.	1597 May 16 18:50	23° \mathbb{B} 59'20	6.03671 AU
max. Earth dist.	1591 Nov 19 09:45	28° \mathbb{M} 16'32	6.33668 AU	morning rise	1597 May 28 05:26	26° \mathbb{B} 40'17	
					1597 Jun 11 16:15	0° \mathbb{I}	
conjunction	1591 Nov 21 13:02	28° \mathbb{M} 45'15	0°40'54	retrograde	1597 Oct 04 19:48	16° \mathbb{I} 23'40	
minimum elong	1591 Nov 21 13:04	28° \mathbb{M} 45'16	0°40'54	min. Earth dist.	1597 Dec 01 23:13	11° \mathbb{I} 30'16	4.09960 AU
	1591 Nov 27 02:32	0° \mathbb{J}		opposition	1597 Dec 03 08:58	11° \mathbb{I} 18'46	0°-41'-42
morning rise	1591 Dec 04 03:45	1° \mathbb{J} 34'28		direct	1598 Jan 31 00:07	6° \mathbb{I} 19'53	
retrograde	1592 Apr 05 05:27	19° \mathbb{J} 14'44		evening set	1598 Jun 06 10:52	25° \mathbb{I} 13'48	
opposition	1592 Jun 05 02:35	14° \mathbb{J} 22'25	0°36'44				
min. Earth dist.	1592 Jun 06 14:31	14° \mathbb{J} 10'57	4.27229 AU	conjunction	1598 Jun 20 05:04	28° \mathbb{I} 21'31	0°-9'-15
direct	1592 Aug 05 23:55	9° \mathbb{J} 24'07		minimum elong	1598 Jun 20 05:04	28° \mathbb{I} 21'31	0°09'15
evening set	1592 Dec 09 11:23	27° \mathbb{J} 43'53		behind sun begin	1598 Jun 19 22:05	28° \mathbb{I} 17'33	
	1592 Dec 19 08:01	0° \mathbb{Z}		behind sun end	1598 Jun 20 12:04	28° \mathbb{I} 25'29	
max. Earth dist.	1592 Dec 20 08:48	0° \mathbb{Z} 14'18	6.20142 AU	max. Earth dist.	1598 Jun 22 05:22	28° \mathbb{I} 49'00	6.17031 AU
					1598 Jun 27 10:15	0° \mathbb{S}	
conjunction	1592 Dec 22 03:47	0° \mathbb{Z} 39'08	0°06'37	morning rise	1598 Jul 03 23:30	1° \mathbb{S} 29'02	
minimum elong	1592 Dec 22 03:46	0° \mathbb{Z} 39'07	0°06'37	asc. node	1598 Sep 23 04:49	16° \mathbb{S} 58'36	
behind sun begin	1592 Dec 21 20:17	0° \mathbb{Z} 34'49		retrograde	1598 Nov 06 23:07	20° \mathbb{S} 03'20	
behind sun end	1592 Dec 22 11:15	0° \mathbb{Z} 43'26		opposition	1599 Jan 05 16:29	15° \mathbb{S} 00'49	0°14'45
morning rise	1593 Jan 03 19:55	3° \mathbb{Z} 34'33		min. Earth dist.	1599 Jan 04 16:07	15° \mathbb{S} 09'02	4.24190 AU
desc. node	1593 Feb 28 02:27	15° \mathbb{Z} 12'59		direct	1599 Mar 06 12:27	9° \mathbb{S} 59'24	
retrograde	1593 May 10 04:51	22° \mathbb{Z} 17'23		evening set	1599 Jul 11 08:17	28° \mathbb{S} 15'49	
opposition	1593 Jul 09 23:06	17° \mathbb{Z} 23'05	0°-19'-2		1599 Jul 19 05:27	0° \mathbb{Q}	
min. Earth dist.	1593 Jul 10 22:59	17° \mathbb{Z} 15'23	4.12882 AU				
direct	1593 Sep 08 12:38	12° \mathbb{Z} 27'26		conjunction	1599 Jul 24 22:43	1° \mathbb{Q} 15'53	0°28'07
	1594 Jan 05 17:23	0° \mathbb{Q}		minimum elong	1599 Jul 24 22:41	1° \mathbb{Q} 15'52	0°28'07
evening set	1594 Jan 11 18:55	1° \mathbb{Q} 25'28		max. Earth dist.	1599 Jul 25 22:31	1° \mathbb{Q} 29'02	6.31015 AU
				morning rise	1599 Aug 07 11:43	4° \mathbb{Q} 14'59	
conjunction	1594 Jan 24 14:12	4° \mathbb{Q} 27'49	0°-31'-26		1599 Sep 29 17:26	15° \mathbb{Q}	
minimum elong	1594 Jan 24 14:10	4° \mathbb{Q} 27'48	0°31'26	retrograde	1599 Dec 08 07:00	21° \mathbb{Q} 48'30	
max. Earth dist.	1594 Jan 23 17:04	4° \mathbb{Q} 15'15	6.06249 AU	opposition	1600 Feb 06 05:53	16° \mathbb{Q} 49'42	1°03'15
morning rise	1594 Feb 06 11:04	7° \mathbb{Q} 31'13		min. Earth dist.	1600 Feb 05 23:20	16° \mathbb{Q} 51'52	4.36797 AU
	1594 Mar 11 06:19	15° \mathbb{Q}			1600 Feb 20 09:10	15° \mathbb{R} \mathbb{Q}	
retrograde	1594 Jun 16 10:05	27° \mathbb{Q} 22'00		direct	1600 Apr 07 10:55	11° \mathbb{Q} 46'53	
opposition	1594 Aug 15 18:41	22° \mathbb{Q} 24'17	-1°-11'-44		1600 May 24 19:17	15° \mathbb{Q}	
min. Earth dist.	1594 Aug 15 22:00	22° \mathbb{Q} 23'11	4.00681 AU	evening set	1600 Aug 12 07:36	29° \mathbb{Q} 34'14	
direct	1594 Oct 13 22:17	17° \mathbb{Q} 30'27			1600 Aug 14 07:24	0° \mathbb{M}	
	1595 Jan 16 23:48	0° \mathbb{K}					
evening set	1595 Feb 16 04:29	7° \mathbb{K} 01'35		conjunction	1600 Aug 25 15:03	2° \mathbb{M} 27'10	0°55'36
				minimum elong	1600 Aug 25 15:01	2° \mathbb{M} 27'09	0°55'35
conjunction	1595 Mar 01 05:50	10° \mathbb{K} 10'44	0°-59'-30	max. Earth dist.	1600 Aug 25 11:00	2° \mathbb{M} 24'58	6.41278 AU
minimum elong	1595 Mar 01 05:48	10° \mathbb{K} 10'43	0°59'31	morning rise	1600 Sep 07 19:48	5° \mathbb{M} 18'42	
max. Earth dist.	1595 Mar 01 17:56	10° \mathbb{K} 18'03	5.96870 AU	retrograde	1601 Jan 06 12:19	22° \mathbb{M} 14'22	