

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

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°37'06	retrograde	1117 Mar 05 j 22:30	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 04:28	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 00:38	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°27'22				
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 19:12	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 02:43	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°09'48
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 15:45	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°43'42
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 10:43	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°46'13
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°29'12
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°06'24
evening set	1115 Sep 10 j 04:28	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°40'35
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 12:56	27°♂21'47	-1°00'47
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 14:08	15°♄		evening set	1128 Oct 14 j 04:08	7°♍25'09	
retrograde	1122 Sep 03 j 05:24	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°12'27	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 00:10	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 15:36	0°♄	
	1123 May 05 j 10:42	0°♄		retrograde	1129 Mar 10 j 13:20	0°♄23'30	
					1129 Mar 26 j 10:13	30°♍	
conjunction	1123 May 18 j 23:13	3°♄07'35	-0°32'12	opposition	1129 May 10 j 11:32	25°♍31'35	0°59'04
minimum elong	1123 May 18 j 23:15	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°19'21				
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 19:56	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 13:48	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 15:22	27°♄36'58	4.19048 AU
behind sun end	1124 Jun 23 j 03:42	7°♄09'43		desc. node	1130 Jul 30 j 06:28	23°♄08'55	
max. Earth dist.	1124 Jun 24 j 07:11	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 22:21	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 00:27	23°♄17'29	4.30185 AU				
direct	1125 Mar 08 j 03:55	18°♄10'04		conjunction	1130 Dec 29 j 12:23	14°♄28'09	-0°15'09
	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 06:50	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 11:44	1°♄53'48	-0°51'05
	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 15:11	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 19:32	24°♄22'24	4.40357 AU		1131 Oct 30 j 21:29	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 05:09	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°50'08
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 16:59	12°♄46'47	
opposition	1127 Mar 09 j 07:09	24°♄37'19	1°38'41	opposition	1132 Aug 24 j 21:11	7°♄46'31	-1°32'58
min. Earth dist.	1127 Mar 10 j 03:06	24°♄30'52	4.44469 AU	min. Earth dist.	1132 Aug 24 j 09:55	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 14:08	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 19:58	25°♄41'38	-1°07'11
				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 05:01	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 06:41	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°38'57
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°Υ07'50	direct	1139 May 15 j 03:53	23°Π53'56	
	1134 Apr 06 j 16:39	0°Ϡ		1139 Jul 22 j 02:39	0°♄	
conjunction	1134 Apr 16 j 14:21	2°Ϡ21'09 -0°58'04	evening set	1139 Sep 18 j 18:57	11°♄28'09	
minimum elong	1134 Apr 16 j 14:23	2°Ϡ21'10 0°58'04	max. Earth dist.	1139 Sep 29 j 22:27	13°♄53'32	6.43417 AU
max. Earth dist.	1134 Apr 18 j 17:56	2°Ϡ51'48 6.00196 AU	conjunction	1139 Oct 01 j 14:53	14°♄15'35	1°06'58
morning rise	1134 Apr 30 j 06:42	5°Ϡ35'40	minimum elong	1139 Oct 01 j 14:53	14°♄15'36	1°06'57
	1134 Jun 11 j 08:16	15°Ϡ	morning rise	1139 Oct 14 j 08:17	17°♄01'51	
retrograde	1134 Sep 08 j 01:03	25°Ϡ41'21		1139 Dec 21 j 20:13	0°♄	
min. Earth dist.	1134 Nov 05 j 04:09	20°Ϡ47'50 4.05142 AU	retrograde	1140 Feb 11 j 21:13	3°♄56'16	
opposition	1134 Nov 06 j 13:58	20°Ϡ36'18 -1°06'19		1140 Apr 05 j 07:54	30°Ϡ♄	
direct	1135 Jan 03 j 19:47	15°Ϡ38'33	opposition	1140 Apr 12 j 15:52	29°♄04'18	1°28'34
	1135 Apr 18 j 21:57	0°♄	min. Earth dist.	1140 Apr 14 j 00:53	28°♄53'46	4.40744 AU
evening set	1135 May 10 j 03:57	4°♄47'35	direct	1140 Jun 14 j 09:22	24°♄03'20	
				1140 Aug 19 j 21:59	0°♄	
conjunction	1135 May 23 j 22:08	7°♄57'51 -0°27'15	evening set	1140 Oct 18 j 10:26	11°♄47'48	
minimum elong	1135 May 23 j 22:10	7°♄57'53 0°27'14	max. Earth dist.	1140 Oct 29 j 02:18	14°♄09'34	6.36326 AU
max. Earth dist.	1135 May 26 j 00:40	8°♄27'00 6.11279 AU				
morning rise	1135 Jun 06 j 17:33	11°♄08'26	conjunction	1140 Oct 31 j 02:44	14°♄36'30	0°50'14
	1135 Oct 01 j 13:55	0°♄	minimum elong	1140 Oct 31 j 02:46	14°♄36'31	0°50'15
retrograde	1135 Oct 12 j 04:00	0°♄11'10		1140 Nov 01 j 20:58	15°♄	
	1135 Oct 22 j 17:08	30°Ϡ♄	morning rise	1140 Nov 12 j 17:07	17°♄24'29	
opposition	1135 Dec 10 j 18:03	25°♄07'35 -0°11'29		1141 Jan 15 j 18:08	0°♄	
min. Earth dist.	1135 Dec 09 j 14:08	25°♄17'04 4.18105 AU	retrograde	1141 Mar 15 j 01:48	4°♄52'25	
direct	1136 Feb 08 j 01:39	20°♄06'54	opposition	1141 May 15 j 01:14	0°♄00'18	0°52'45
asc. node	1136 Feb 27 j 06:45	20°♄42'49		1141 May 15 j 02:11	30°Ϡ♄	
	1136 May 03 j 23:21	0°♄	min. Earth dist.	1141 May 16 j 11:47	29°♄49'18	4.30730 AU
evening set	1136 Jun 13 j 21:19	8°♄40'14	direct	1141 Jul 16 j 03:41	25°♄01'37	
				1141 Sep 13 j 15:11	0°♄	
conjunction	1136 Jun 27 j 14:12	11°♄43'51 0°11'52	evening set	1141 Nov 18 j 16:25	13°♄11'06	
minimum elong	1136 Jun 27 j 14:11	11°♄43'50 0°11'52	max. Earth dist.	1141 Nov 29 j 11:53	15°♄39'06	6.24184 AU
behind sun begin	1136 Jun 27 j 08:31	11°♄40'41				
behind sun end	1136 Jun 27 j 19:50	11°♄46'59	conjunction	1141 Dec 01 j 08:03	16°♄04'23	0°18'29
max. Earth dist.	1136 Jun 28 j 23:20	12°♄02'23 6.25087 AU	minimum elong	1141 Dec 01 j 08:04	16°♄04'24	0°18'29
morning rise	1136 Jul 11 j 06:01	14°♄46'42	morning rise	1141 Dec 13 j 23:17	18°♄57'43	
	1136 Oct 01 j 00:44	0°♄		1142 Feb 04 j 12:33	0°♄	
retrograde	1136 Nov 12 j 05:47	2°♄44'04	retrograde	1142 Apr 18 j 11:42	7°♄22'03	
	1136 Dec 24 j 08:33	30°Ϡ♄	desc. node	1142 Jun 09 j 18:42	3°♄33'32	
min. Earth dist.	1137 Jan 10 j 11:03	27°♄48'16 4.31480 AU	opposition	1142 Jun 18 j 07:58	2°♄28'15 -0°01'16	
opposition	1137 Jan 11 j 00:05	27°♄43'55 0°43'43	min. Earth dist.	1142 Jun 19 j 11:04	2°♄19'33	4.17166 AU
direct	1137 Mar 12 j 16:13	22°♄41'25		1142 Jul 08 j 11:39	30°Ϡ♄	
	1137 May 25 j 10:08	0°♄	direct	1142 Aug 18 j 07:21	27°♄32'05	
evening set	1137 Jul 17 j 17:17	10°♄42'17		1142 Sep 27 j 10:26	0°♄	
			evening set	1142 Dec 21 j 09:32	16°♄16'42	
conjunction	1137 Jul 31 j 03:46	13°♄38'15 0°45'37	max. Earth dist.	1143 Jan 02 j 01:22	19°♄01'16	6.10389 AU
minimum elong	1137 Jul 31 j 03:44	13°♄38'13 0°45'37				
max. Earth dist.	1137 Jul 31 j 09:20	13°♄41'17 6.36995 AU	conjunction	1143 Jan 03 j 03:39	19°♄16'45	-0°20'31
	1137 Aug 06 j 09:23	15°♄	minimum elong	1143 Jan 03 j 03:37	19°♄16'45	0°20'31
morning rise	1137 Aug 13 j 12:00	16°♄32'54	morning rise	1143 Jan 15 j 22:54	22°♄17'39	
	1137 Oct 23 j 21:36	0°♄		1143 Feb 19 j 03:01	0°♄	
retrograde	1137 Dec 12 j 21:10	3°♄42'40	retrograde	1143 May 24 j 23:57	11°♄48'59	
	1138 Feb 01 j 12:05	30°Ϡ♄	opposition	1143 Jul 24 j 13:45	6°♄52'05 -0°58'21	
opposition	1138 Feb 10 j 23:44	28°♄46'14 1°23'23	min. Earth dist.	1143 Jul 24 j 21:40	6°♄49'30	4.04281 AU
min. Earth dist.	1138 Feb 11 j 04:22	28°♄44'42 4.41151 AU	direct	1143 Sep 22 j 01:30	1°♄58'02	
direct	1138 Apr 13 j 20:11	23°♄43'08		1143 Dec 29 j 01:35	15°♄	
	1138 Jun 21 j 13:33	0°♄	evening set	1144 Jan 25 j 03:11	21°♄17'29	
evening set	1138 Aug 18 j 19:37	11°♄23'07				
			conjunction	1144 Feb 07 j 02:32	24°♄24'33	-0°53'51
conjunction	1138 Aug 31 j 22:22	14°♄13'11 1°05'19	minimum elong	1144 Feb 07 j 02:30	24°♄24'31	0°53'50
minimum elong	1138 Aug 31 j 22:20	14°♄13'10 1°05'20	max. Earth dist.	1144 Feb 07 j 05:37	24°♄26'24	5.99582 AU
max. Earth dist.	1138 Aug 31 j 02:46	14°♄02'34 6.43665 AU	morning rise	1144 Feb 20 j 04:29	27°♄33'07	
morning rise	1138 Sep 13 j 22:00	17°♄01'46		1144 Mar 01 j 12:10	0°♄	
	1138 Nov 21 j 23:38	0°♄	retrograde	1144 Jul 01 j 00:07	17°♄57'47	
retrograde	1139 Jan 12 j 01:57	3°♄49'52	opposition	1144 Aug 30 j 02:13	12°♄56'56	-1°36'13
	1139 Mar 05 j 06:39	30°Ϡ♄	min. Earth dist.	1144 Aug 29 j 12:46	13°♄01'25	3.96752 AU
opposition	1139 Mar 13 j 13:45	28°♄56'24 1°39'16	direct	1144 Oct 27 j 10:13	8°♄03'18	
min. Earth dist.	1139 Mar 14 j 10:43	28°♄49'39 4.44532 AU	evening set	1145 Mar 01 j 17:50	27°♄42'28	

	1145 Mar 11 j 06:22	0°♈	max. Earth dist.	1150 Sep 04 j 03:07	18°♏13'07	6.44430 AU
conjunction	1145 Mar 15 j 00:59	0°♈54'39 -1°07'30	conjunction	1150 Sep 05 j 03:31	18°♏26'20	1°06'35
minimum elong	1145 Mar 15 j 00:59	0°♈54'39 1°07'30	minimum elong	1150 Sep 05 j 03:30	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 11:09	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 04:44	8°♏00'27	
min. Earth dist.	1145 Oct 05 j 06:57	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°36'29	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 23:41	30°♏♏	
	1146 Mar 20 j 16:48	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 21:59	15°♏38'49	
conjunction	1146 Apr 21 j 20:43	7°♏31'50 -0°54'47	max. Earth dist.	1151 Oct 03 j 23:36	18°♏03'20	6.43004 AU
minimum elong	1146 Apr 21 j 20:45	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 14:02	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 10:00	21°♏12'19	
	1146 Aug 22 j 13:19	0°♏		1151 Nov 30 j 09:49	0°♏	
retrograde	1146 Sep 12 j 22:24	0°♏44'59	retrograde	1152 Feb 16 j 01:55	8°♏09'22	
	1146 Oct 04 j 04:18	30°♏♏	opposition	1152 Apr 16 j 22:04	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 07:52	3°♏06'44	4.39739 AU
opposition	1146 Nov 11 j 11:50	25°♏39'58 -0°59'27		1152 May 15 j 04:11	30°♏♏	
direct	1147 Jan 08 j 20:10	20°♏41'48	direct	1152 Jun 18 j 13:47	28°♏16'49	
	1147 Mar 31 j 02:26	0°♏		1152 Jul 23 j 00:34	0°♏	
evening set	1147 May 15 j 06:28	9°♏46'15		1152 Oct 17 j 17:46	15°♏	
			evening set	1152 Oct 22 j 14:01	16°♏04'02	
conjunction	1147 May 29 j 00:56	12°♏55'47 -0°21'56	max. Earth dist.	1152 Nov 02 j 03:42	18°♏25'10	6.34789 AU
minimum elong	1147 May 29 j 00:57	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 05:55	18°♏53'13	0°46'41
morning rise	1147 Jun 11 j 20:04	16°♏05'22	minimum elong	1152 Nov 04 j 05:57	18°♏53'14	0°46'41
	1147 Aug 19 j 21:58	0°♏	morning rise	1152 Nov 16 j 20:22	21°♏41'50	
retrograde	1147 Oct 16 j 19:14	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 13:28	4°♏24'43	0°46'16
opposition	1147 Dec 15 j 08:55	29°♏55'01 -0°03'22	min. Earth dist.	1153 May 21 j 01:00	4°♏13'23	4.28723 AU
asc. node	1148 Jan 07 j 11:04	27°♏00'06		1153 Jul 01 j 08:57	30°♏♏	
direct	1148 Feb 12 j 21:33	24°♏54'03	direct	1153 Jul 20 j 13:27	29°♏26'18	
	1148 Apr 12 j 02:16	0°♏		1153 Aug 08 j 16:59	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 09:26	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 16:22	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 21:03	20°♏38'30	
retrograde	1148 Nov 16 j 12:06	7°♏13'46	morning rise	1153 Dec 18 j 08:01	23°♏30'18	
opposition	1149 Jan 15 j 08:38	2°♏14'06 0°50'19		1154 Jan 16 j 15:00	0°♏	
min. Earth dist.	1149 Jan 14 j 21:14	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°09'18
	1149 Apr 30 j 01:57	0°♏	min. Earth dist.	1154 Jun 24 j 04:37	7°♏03'13	4.14731 AU
	1149 Jul 21 j 16:20	15°♏	direct	1154 Aug 22 j 21:13	2°♏15'21	
evening set	1149 Jul 22 j 05:37	15°♏07'11	evening set	1154 Dec 26 j 01:29	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°25'44
minimum elong	1149 Aug 04 j 14:59	18°♏01'58 0°49'14	minimum elong	1155 Jan 07 j 20:11	24°♏08'35	0°25'44
max. Earth dist.	1149 Aug 04 j 17:34	18°♏03'22 6.38708 AU	max. Earth dist.	1155 Jan 06 j 21:08	23°♏54'56	6.08043 AU
morning rise	1149 Aug 17 j 21:53	20°♏55'24	morning rise	1155 Jan 20 j 16:22	27°♏10'55	
	1149 Oct 01 j 13:31	0°♏		1155 Feb 01 j 18:09	0°♏	
retrograde	1149 Dec 17 j 00:33	7°♏59'11		1155 Apr 25 j 06:20	15°♏	
opposition	1150 Feb 15 j 04:24	3°♏03'15 1°26'57	retrograde	1155 May 30 j 06:55	16°♏53'27	
min. Earth dist.	1150 Feb 15 j 11:42	3°♏00'52 4.42453 AU		1155 Jul 04 j 09:41	15°♏	
	1150 Mar 12 j 09:21	30°♏♏	opposition	1155 Jul 29 j 17:44	11°♏56'02	-1°05'14
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 09:31	0°♏	direct	1155 Sep 27 j 01:10	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 03:51	26° \approx 27'51	conjunction	1161 Aug 09 j 03:00	22° Ω 27'54	0°52'41
			minimum elong	1161 Aug 09 j 02:57	22° Ω 27'53	0°52'41
conjunction	1156 Feb 12 j 04:24	29° \approx 36'06 -0°57'09	max. Earth dist.	1161 Aug 09 j 01:22	22° Ω 27'01	6.40058 AU
minimum elong	1156 Feb 12 j 04:22	29° \approx 36'05 0°57'08	morning rise	1161 Aug 22 j 08:38	25° Ω 20'17	
max. Earth dist.	1156 Feb 12 j 13:12	29° \approx 41'25 5.98050 AU		1161 Sep 13 j 10:11	0° \mathbb{M}	
	1156 Feb 13 j 19:59	0° \mathbb{H}	retrograde	1161 Dec 21 j 04:22	12° \mathbb{M} 19'29	
morning rise	1156 Feb 25 j 07:30	2° \mathbb{H} 45'54	opposition	1162 Feb 19 j 10:34	7° \mathbb{M} 23'56	1°30'12
retrograde	1156 Jul 06 j 10:28	23° \mathbb{H} 17'10	min. Earth dist.	1162 Feb 19 j 20:04	7° \mathbb{M} 20'51	4.43312 AU
opposition	1156 Sep 04 j 10:08	18° \mathbb{H} 15'48 -1°38'41	direct	1162 Apr 22 j 13:29	2° \mathbb{M} 20'53	
min. Earth dist.	1156 Sep 03 j 17:29	18° \mathbb{H} 21'22 3.95932 AU	evening set	1162 Aug 27 j 10:14	19° \mathbb{M} 56'02	
direct	1156 Nov 01 j 14:02	13° \mathbb{H} 22'07	max. Earth dist.	1162 Sep 08 j 07:55	22° \mathbb{M} 30'15	6.44733 AU
	1157 Feb 22 j 04:09	0° \mathbb{Y}				
evening set	1157 Mar 07 j 01:08	3° \mathbb{Y} 03'25	conjunction	1162 Sep 09 j 10:49	22° \mathbb{M} 44'49	1°07'34
			minimum elong	1162 Sep 09 j 10:48	22° \mathbb{M} 44'49	1°07'33
conjunction	1157 Mar 20 j 09:18	6° \mathbb{Y} 16'08 -1°07'14	morning rise	1162 Sep 22 j 08:24	25° \mathbb{M} 32'11	
minimum elong	1157 Mar 20 j 09:18	6° \mathbb{Y} 16'09 1°07'13		1162 Oct 13 j 12:29	0° $\underline{\Omega}$	
max. Earth dist.	1157 Mar 21 j 23:15	6° \mathbb{Y} 39'01 5.95933 AU	retrograde	1163 Jan 20 j 10:34	12° $\underline{\Omega}$ 18'06	
morning rise	1157 Apr 02 j 20:49	9° \mathbb{Y} 30'32	opposition	1163 Mar 22 j 00:29	7° $\underline{\Omega}$ 25'12	1°38'51
	1157 Aug 05 j 23:02	0° \mathbb{B}	min. Earth dist.	1163 Mar 23 j 02:20	7° $\underline{\Omega}$ 16'54	4.44462 AU
retrograde	1157 Aug 13 j 01:18	0° \mathbb{B} 05'02	direct	1163 May 23 j 17:48	2° $\underline{\Omega}$ 23'02	
	1157 Aug 20 j 03:33	30° \mathbb{R} \mathbb{Y}	evening set	1163 Sep 27 j 04:27	19° $\underline{\Omega}$ 57'53	
min. Earth dist.	1157 Oct 10 j 09:50	25° \mathbb{Y} 11'29 3.98378 AU	max. Earth dist.	1163 Oct 08 j 01:44	22° $\underline{\Omega}$ 20'27	6.42182 AU
opposition	1157 Oct 11 j 17:58	25° \mathbb{Y} 00'33 -1°33'07				
direct	1157 Dec 08 j 14:52	20° \mathbb{Y} 04'55	conjunction	1163 Oct 09 j 23:03	22° $\underline{\Omega}$ 45'15	1°04'03
	1158 Mar 01 j 15:39	0° \mathbb{B}	minimum elong	1163 Oct 09 j 23:04	22° $\underline{\Omega}$ 45'16	1°04'03
evening set	1158 Apr 13 j 14:03	9° \mathbb{B} 35'06	morning rise	1163 Oct 22 j 15:19	25° $\underline{\Omega}$ 31'35	
				1163 Nov 12 j 14:24	0° \mathbb{M}	
conjunction	1158 Apr 27 j 05:37	12° \mathbb{B} 48'05 -0°51'00	retrograde	1164 Feb 20 j 13:08	12° \mathbb{M} 32'37	
minimum elong	1158 Apr 27 j 05:40	12° \mathbb{B} 48'06 0°51'00	opposition	1164 Apr 21 j 09:02	7° \mathbb{M} 40'47	1°20'58
max. Earth dist.	1158 Apr 29 j 12:02	13° \mathbb{B} 20'11 6.02643 AU	min. Earth dist.	1164 Apr 22 j 20:09	7° \mathbb{M} 29'35	4.38406 AU
	1158 May 06 j 13:32	15° \mathbb{B}	direct	1164 Jun 22 j 23:48	2° \mathbb{M} 40'19	
morning rise	1158 May 10 j 23:24	16° \mathbb{B} 02'02		1164 Oct 01 j 08:05	15° \mathbb{M}	
	1158 Jul 16 j 18:25	0° \mathbb{I}	evening set	1164 Oct 26 j 22:01	20° \mathbb{M} 31'08	
retrograde	1158 Sep 17 j 22:03	5° \mathbb{I} 51'56	max. Earth dist.	1164 Nov 06 j 12:33	22° \mathbb{M} 53'16	6.33057 AU
min. Earth dist.	1158 Nov 15 j 01:01	0° \mathbb{I} 58'21 4.08549 AU				
opposition	1158 Nov 16 j 10:34	0° \mathbb{I} 46'55 -0°52'03	conjunction	1164 Nov 08 j 13:55	23° \mathbb{M} 20'57	0°42'43
	1158 Nov 22 j 04:41	30° \mathbb{R} \mathbb{B}	minimum elong	1164 Nov 08 j 13:57	23° \mathbb{M} 20'58	0°42'43
direct	1159 Jan 13 j 23:03	25° \mathbb{B} 48'15	morning rise	1164 Nov 21 j 04:12	26° \mathbb{M} 10'15	
	1159 Mar 07 j 03:23	0° \mathbb{I}		1164 Dec 08 j 14:42	0° \mathbb{J}	
evening set	1159 May 20 j 09:39	14° \mathbb{I} 46'48	retrograde	1165 Mar 24 j 08:14	13° \mathbb{J} 53'05	
			opposition	1165 May 24 j 06:46	9° \mathbb{J} 00'44	0°39'10
conjunction	1159 Jun 03 j 04:05	17° \mathbb{I} 55'20 -0°16'24	min. Earth dist.	1165 May 25 j 17:10	8° \mathbb{J} 49'46	4.26704 AU
minimum elong	1159 Jun 03 j 04:06	17° \mathbb{I} 55'21 0°16'25	direct	1165 Jul 25 j 02:17	4° \mathbb{J} 02'44	
max. Earth dist.	1159 Jun 05 j 04:55	18° \mathbb{I} 23'14 6.15358 AU	evening set	1165 Nov 27 j 13:19	22° \mathbb{J} 23'22	
morning rise	1159 Jun 16 j 22:59	21° \mathbb{I} 03'49	max. Earth dist.	1165 Dec 08 j 11:36	24° \mathbb{J} 54'30	6.19741 AU
	1159 Jul 28 j 13:25	0° \mathbb{E}				
retrograde	1159 Oct 21 j 07:49	9° \mathbb{E} 45'57	conjunction	1165 Dec 10 j 05:26	25° \mathbb{J} 18'41	0°07'58
asc. node	1159 Nov 16 j 15:02	8° \mathbb{E} 38'09	minimum elong	1165 Dec 10 j 05:25	25° \mathbb{J} 18'41	0°07'59
opposition	1159 Dec 19 j 23:44	4° \mathbb{E} 43'08 0°04'50	behind sun begin	1165 Dec 09 j 22:16	25° \mathbb{J} 14'34	
min. Earth dist.	1159 Dec 18 j 22:32	4° \mathbb{E} 51'39 4.22430 AU	behind sun end	1165 Dec 10 j 12:35	25° \mathbb{J} 22'48	
	1160 Feb 04 j 02:36	30° \mathbb{R} \mathbb{I}	morning rise	1165 Dec 22 j 21:39	28° \mathbb{J} 14'18	
direct	1160 Feb 17 j 15:59	29° \mathbb{I} 41'48		1165 Dec 30 j 14:34	0° \mathbb{Z}	
	1160 Mar 02 j 09:39	0° \mathbb{E}	desc. node	1166 Feb 28 j 14:14	11° \mathbb{Z} 59'07	
evening set	1160 Jun 23 j 13:16	18° \mathbb{E} 03'23	retrograde	1166 Apr 28 j 10:49	16° \mathbb{Z} 59'23	
			opposition	1166 Jun 28 j 05:08	12° \mathbb{Z} 04'55	-0°17'40
conjunction	1160 Jul 07 j 04:32	21° \mathbb{E} 04'32 0°22'17	min. Earth dist.	1166 Jun 29 j 03:41	11° \mathbb{Z} 57'38	4.12645 AU
minimum elong	1160 Jul 07 j 04:31	21° \mathbb{E} 04'31 0°22'18	direct	1166 Aug 27 j 18:13	7° \mathbb{Z} 09'28	
max. Earth dist.	1160 Jul 08 j 06:19	21° \mathbb{E} 18'50 6.29309 AU	evening set	1166 Dec 30 j 21:19	26° \mathbb{Z} 07'10	
morning rise	1160 Jul 20 j 18:28	24° \mathbb{E} 04'44				
	1160 Aug 17 j 12:02	0° Ω	conjunction	1167 Jan 12 j 16:49	29° \mathbb{Z} 09'36	-0°30'59
retrograde	1160 Nov 20 j 20:42	11° Ω 44'33	minimum elong	1167 Jan 12 j 16:47	29° \mathbb{Z} 09'35	0°30'59
opposition	1161 Jan 19 j 17:41	6° Ω 45'24 0°56'44	max. Earth dist.	1167 Jan 11 j 22:52	28° \mathbb{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 05:31	0° \approx	
direct	1161 Mar 21 j 19:33	1° Ω 42'35	morning rise	1167 Jan 25 j 13:44	2° \approx 13'04	
	1161 Jul 05 j 04:21	15° Ω		1167 Mar 25 j 23:05	15° \approx	
evening set	1161 Jul 26 j 18:41	19° Ω 34'07	retrograde	1167 Jun 04 j 15:39	22° \approx 04'29	
			opposition	1167 Aug 04 j 00:35	17° \approx 06'36	-1°11'51

min. Earth dist.	1167 Aug 04 j 02:25	17°≈06'00	4.00912 AU	direct	1173 Mar 26 j 04:47	6°Ω07'03	
	1167 Aug 20 j 15:07	15°≈			1173 Jun 17 j 07:23	15°Ω	
direct	1167 Oct 02 j 02:46	12°≈12'58		evening set	1173 Jul 31 j 05:03	23°Ω55'51	
	1167 Nov 12 j 17:45	15°≈					
	1168 Jan 28 j 03:51	0°✕		conjunction	1173 Aug 13 j 12:13	26°Ω48'50	0°55'44
evening set	1168 Feb 04 j 06:51	1°✕42'06		minimum elong	1173 Aug 13 j 12:10	26°Ω48'49	0°55'45
				max. Earth dist.	1173 Aug 13 j 05:51	26°Ω45'23	6.40953 AU
conjunction	1168 Feb 17 j 08:11	4°✕51'05	-1°00'06	morning rise	1173 Aug 26 j 16:47	29°Ω40'25	
minimum elong	1168 Feb 17 j 08:09	4°✕51'03	1°00'06		1173 Aug 28 j 05:08	0°൬	
max. Earth dist.	1168 Feb 17 j 20:48	4°✕58'42	5.97329 AU	retrograde	1173 Dec 25 j 09:27	16°൬36'51	
morning rise	1168 Mar 01 j 12:32	8°✕01'43		opposition	1174 Feb 23 j 15:48	11°൬41'48	1°32'56
retrograde	1168 Jul 11 j 17:32	28°✕35'55		min. Earth dist.	1174 Feb 24 j 04:40	11°൬37'38	4.43686 AU
opposition	1168 Sep 09 j 17:29	23°✕34'00	-1°40'23	direct	1174 Apr 26 j 22:24	6°൬38'51	
min. Earth dist.	1168 Sep 08 j 21:09	23°✕40'49	3.95930 AU	evening set	1174 Aug 31 j 17:16	24°൬13'47	
direct	1168 Nov 06 j 19:07	18°✕40'10		max. Earth dist.	1174 Sep 12 j 10:27	26°൬45'45	6.44546 AU
	1169 Feb 04 j 00:03	0°Υ					
evening set	1169 Mar 12 j 07:21	8°Υ20'38		conjunction	1174 Sep 13 j 16:58	27°൬02'17	1°08'10
				minimum elong	1174 Sep 13 j 16:58	27°൬02'17	1°08'09
conjunction	1169 Mar 25 j 16:44	11°Υ33'33	-1°06'27	morning rise	1174 Sep 26 j 13:44	29°൬49'24	
minimum elong	1169 Mar 25 j 16:45	11°Υ33'33	1°06'27		1174 Sep 27 j 09:25	0°Δ	
max. Earth dist.	1169 Mar 27 j 11:25	11°Υ59'12	5.96644 AU	retrograde	1175 Jan 24 j 16:31	16°Δ36'41	
morning rise	1169 Apr 08 j 05:07	14°Υ48'01		opposition	1175 Mar 26 j 07:38	11°Δ44'00	1°37'54
	1169 Jun 19 j 13:51	0°♄		min. Earth dist.	1175 Mar 27 j 10:43	11°Δ35'19	4.43763 AU
retrograde	1169 Aug 18 j 05:35	5°♄17'36		direct	1175 May 28 j 00:47	6°Δ42'01	
opposition	1169 Oct 16 j 20:35	0°♄12'54	-1°29'06	evening set	1175 Oct 01 j 11:03	24°Δ19'05	
min. Earth dist.	1169 Oct 15 j 12:13	0°♄23'55	3.99709 AU	max. Earth dist.	1175 Oct 12 j 07:53	26°Δ41'48	6.41032 AU
	1169 Oct 18 j 10:29	30°♄Υ					
direct	1169 Dec 13 j 19:43	25°Υ16'53		conjunction	1175 Oct 14 j 05:14	27°Δ06'43	1°02'02
	1170 Feb 06 j 14:40	0°♄		minimum elong	1175 Oct 14 j 05:15	27°Δ06'44	1°02'02
evening set	1170 Apr 18 j 18:29	14°♄42'16		morning rise	1175 Oct 26 j 20:56	29°Δ53'19	
	1170 Apr 20 j 00:49	15°♄			1175 Oct 27 j 09:11	0°♌	
conjunction	1170 May 02 j 10:39	17°♄54'43	-0°46'57	retrograde	1176 Jan 19 j 16:35	15°♌	
minimum elong	1170 May 02 j 10:42	17°♄54'44	0°46'57		1176 Feb 25 j 00:27	16°♌59'22	
max. Earth dist.	1170 May 04 j 17:47	18°♄27'05	6.04449 AU	opposition	1176 Apr 01 j 15:41	15°♌♌	
morning rise	1170 May 16 j 04:58	21°♄08'01		min. Earth dist.	1176 Apr 25 j 21:13	12°♌07'35	1°16'23
	1170 Jun 25 j 04:56	0°♌		direct	1176 Apr 27 j 08:47	11°♌56'16	4.36876 AU
retrograde	1170 Sep 22 j 15:09	10°♌48'05			1176 Jun 27 j 10:19	7°♌07'31	
min. Earth dist.	1170 Nov 19 j 19:24	5°♌54'43	4.10627 AU	evening set	1176 Sep 12 j 17:36	15°♌	
opposition	1170 Nov 21 j 05:01	5°♌43'16	-0°44'32	max. Earth dist.	1176 Oct 31 j 06:58	25°♌02'13	
direct	1171 Jan 18 j 19:56	0°♌44'13			1176 Nov 10 j 20:47	27°♌24'37	6.31270 AU
evening set	1171 May 25 j 08:35	19°♌36'45		conjunction	1176 Nov 12 j 22:37	27°♌52'41	0°38'27
				minimum elong	1176 Nov 12 j 22:39	27°♌52'42	0°38'26
conjunction	1171 Jun 08 j 02:47	22°♌44'14	-0°10'59		1176 Nov 22 j 08:53	0°♐	
minimum elong	1171 Jun 08 j 02:48	22°♌44'14	0°10'59	morning rise	1176 Nov 25 j 13:10	0°♐42'47	
behind sun begin	1171 Jun 07 j 20:36	22°♌40'44		retrograde	1177 Mar 29 j 03:38	18°♐33'34	
behind sun end	1171 Jun 08 j 08:59	22°♌47'45		opposition	1177 May 29 j 01:49	13°♐40'57	0°31'44
max. Earth dist.	1171 Jun 09 j 23:49	23°♌09'51	6.17528 AU	min. Earth dist.	1177 May 30 j 10:48	13°♐30'25	4.24767 AU
morning rise	1171 Jun 21 j 21:19	25°♌51'34		direct	1177 Jul 29 j 18:05	8°♐43'18	
	1171 Jul 10 j 13:45	0°♑		evening set	1177 Dec 02 j 03:03	27°♐08'44	
asc. node	1171 Sep 27 j 04:33	13°♑05'31		max. Earth dist.	1177 Dec 13 j 05:51	29°♐43'04	6.17838 AU
retrograde	1171 Oct 25 j 18:48	14°♑23'48					
opposition	1171 Dec 24 j 10:48	9°♑21'28	0°12'40	conjunction	1177 Dec 14 j 19:34	0°♑04'58	0°02'28
min. Earth dist.	1171 Dec 23 j 12:50	9°♑28'52	4.24477 AU	minimum elong	1177 Dec 14 j 19:35	0°♑04'59	0°02'27
direct	1172 Feb 22 j 08:52	4°♑19'52		behind sun begin	1177 Dec 14 j 11:36	0°♑00'22	
evening set	1172 Jun 28 j 05:18	22°♑36'27		behind sun end	1177 Dec 15 j 03:34	0°♑09'35	
					1177 Dec 14 j 10:58	0°♑	
conjunction	1172 Jul 11 j 19:54	25°♑36'33	0°27'11	morning rise	1177 Dec 27 j 12:09	3°♑01'34	
minimum elong	1172 Jul 11 j 19:52	25°♑36'32	0°27'10	desc. node	1178 Jan 08 j 01:30	5°♑40'12	
max. Earth dist.	1172 Jul 12 j 18:38	25°♑49'06	6.31080 AU	retrograde	1178 May 03 j 13:22	21°♑55'35	
morning rise	1172 Jul 25 j 08:44	28°♑35'35		opposition	1178 Jul 03 j 06:41	17°♑00'43	-0°25'58
	1172 Jul 31 j 19:31	0°Ω		min. Earth dist.	1178 Jul 04 j 02:39	16°♑54'16	4.10927 AU
	1172 Oct 29 j 04:38	15°Ω		direct	1178 Sep 01 j 14:55	12°♑05'36	
retrograde	1172 Nov 25 j 00:43	16°Ω08'30			1178 Dec 30 j 22:58	0°≈	
	1172 Dec 21 j 18:22	15°♌Ω		evening set	1179 Jan 04 j 17:28	1°≈07'31	
opposition	1173 Jan 23 j 23:58	11°Ω09'56	1°02'38				
min. Earth dist.	1173 Jan 23 j 17:51	11°Ω11'58	4.36656 AU	conjunction	1179 Jan 17 j 13:26	4°≈10'47	-0°36'00

minimum elong	1179 Jan 17 j 13:24	4°≈10'46	0°35'59	retrograde	1184 Nov 29 j 08:07	20°Ω33'34	
max. Earth dist.	1179 Jan 16 j 22:31	4°≈01'54	6.04828 AU	opposition	1185 Jan 28 j 07:17	15°Ω35'32	1°08'13
morning rise	1179 Jan 30 j 11:20	7°≈15'15		min. Earth dist.	1185 Jan 28 j 04:35	15°Ω36'25	4.37750 AU
	1179 Mar 05 j 10:07	15°≈			1185 Feb 01 j 19:03	15°℞Ω	
retrograde	1179 Jun 09 j 21:19	27°≈13'38		direct	1185 Mar 30 j 16:57	10°Ω32'34	
opposition	1179 Aug 09 j 06:07	22°≈15'06	-1°17'50		1185 May 26 j 06:11	15°Ω	
min. Earth dist.	1179 Aug 09 j 04:04	22°≈15'46	3.99975 AU	evening set	1185 Aug 04 j 16:23	28°Ω19'26	
direct	1179 Oct 07 j 03:57	17°≈21'30			1185 Aug 12 j 10:25	0°℥	
	1180 Jan 10 j 19:20	0°℥					
evening set	1180 Feb 09 j 08:22	6°℥52'40		conjunction	1185 Aug 17 j 22:40	1°℥11'45	0°58'32
				minimum elong	1185 Aug 17 j 22:38	1°℥11'44	0°58'32
conjunction	1180 Feb 22 j 10:51	10°℥02'17	-1°02'33	max. Earth dist.	1185 Aug 17 j 13:43	1°℥06'54	6.41618 AU
minimum elong	1180 Feb 22 j 10:49	10°℥02'16	1°02'33	morning rise	1185 Aug 31 j 01:59	4°℥02'37	
max. Earth dist.	1180 Feb 23 j 05:14	10°℥13'24	5.96932 AU	retrograde	1185 Dec 29 j 14:02	20°℥56'55	
morning rise	1180 Mar 06 j 16:05	13°℥13'31		opposition	1186 Feb 27 j 22:22	16°℥02'18	1°35'14
	1180 May 27 j 20:05	0°℥		min. Earth dist.	1186 Feb 28 j 12:26	15°℥57'45	4.43921 AU
retrograde	1180 Jul 17 j 00:52	3°℥49'15		direct	1186 May 01 j 06:01	10°℥59'30	
	1180 Sep 05 j 18:42	30°℥℥		evening set	1186 Sep 05 j 01:46	28°℥34'32	
opposition	1180 Sep 14 j 22:37	28°℥46'48	-1°41'14		1186 Sep 11 j 16:00	0°♁	
min. Earth dist.	1180 Sep 14 j 00:54	28°℥54'07	3.96128 AU	max. Earth dist.	1186 Sep 16 j 15:32	1°♁04'52	6.44343 AU
direct	1180 Nov 11 j 23:38	23°℥52'46					
	1181 Jan 13 j 19:29	0°℥		conjunction	1186 Sep 18 j 00:30	1°♁22'45	1°08'25
evening set	1181 Mar 17 j 11:37	13°℥31'50		minimum elong	1186 Sep 18 j 00:29	1°♁22'45	1°08'25
				morning rise	1186 Sep 30 j 20:26	4°♁09'38	
conjunction	1181 Mar 30 j 21:58	16°℥44'52	-1°05'10	retrograde	1187 Jan 29 j 01:23	20°♁58'19	
minimum elong	1181 Mar 30 j 22:00	16°℥44'53	1°05'11	opposition	1187 Mar 30 j 16:46	16°♁05'57	1°36'26
max. Earth dist.	1181 Apr 01 j 18:57	17°℥11'50	5.97395 AU	min. Earth dist.	1187 Mar 31 j 21:51	15°♁56'39	4.43157 AU
morning rise	1181 Apr 13 j 11:27	19°℥59'26		direct	1187 Jun 01 j 11:09	11°♁04'17	
	1181 May 28 j 00:35	0°♁		evening set	1187 Oct 05 j 18:44	28°♁42'58	
retrograde	1181 Aug 23 j 05:10	10°♁23'52			1187 Oct 11 j 15:23	0°℥	
min. Earth dist.	1181 Oct 20 j 10:31	5°♁30'31	4.00947 AU	max. Earth dist.	1187 Oct 16 j 13:37	1°℥05'02	6.40079 AU
opposition	1181 Oct 21 j 20:23	5°♁18'59	-1°24'30				
direct	1181 Dec 18 j 19:38	0°♁22'34		conjunction	1187 Oct 18 j 12:22	1°℥30'46	0°59'42
	1182 Apr 03 j 04:53	15°♁		minimum elong	1187 Oct 18 j 12:23	1°℥30'47	0°59'42
evening set	1182 Apr 23 j 21:19	19°♁43'57		morning rise	1187 Oct 31 j 03:45	4°℥17'37	
					1187 Dec 23 j 09:39	15°℥	
conjunction	1182 May 07 j 14:02	22°♁55'55	-0°42'38	retrograde	1188 Feb 29 j 12:39	21°℥28'08	
minimum elong	1182 May 07 j 14:05	22°♁55'57	0°42'38	opposition	1188 Apr 30 j 10:36	16°℥36'19	1°11'21
max. Earth dist.	1182 May 09 j 19:36	23°♁27'15	6.06053 AU	min. Earth dist.	1188 May 01 j 21:25	16°℥25'14	4.35652 AU
morning rise	1182 May 21 j 08:46	26°♁08'39			1188 May 13 j 06:41	15°℥℥	
	1182 Jun 07 j 06:00	0°♁		direct	1188 Jul 01 j 21:24	11°℥36'36	
retrograde	1182 Sep 27 j 08:06	15°♁39'53			1188 Aug 19 j 17:07	15°℥	
opposition	1182 Nov 25 j 21:53	10°♁35'14	-0°36'51	evening set	1188 Nov 04 j 16:19	29°℥34'06	
min. Earth dist.	1182 Nov 24 j 14:11	10°♁46'02	4.12407 AU		1188 Nov 06 j 14:32	0°♁	
direct	1183 Jan 23 j 17:16	5°♁35'45		max. Earth dist.	1188 Nov 15 j 08:50	1°♁58'28	6.29891 AU
evening set	1183 May 30 j 06:29	24°♁23'29					
				conjunction	1188 Nov 17 j 07:56	2°♁25'05	0°34'00
conjunction	1183 Jun 13 j 00:41	27°♁30'09	-0°05'32	minimum elong	1188 Nov 17 j 07:58	2°♁25'06	0°34'00
minimum elong	1183 Jun 13 j 00:41	27°♁30'09	0°05'32	morning rise	1188 Nov 29 j 22:22	5°♁15'44	
behind sun begin	1183 Jun 12 j 16:39	27°♁25'37		retrograde	1189 Apr 02 j 22:19	23°♁13'04	
behind sun end	1183 Jun 13 j 08:43	27°♁34'40		opposition	1189 Jun 02 j 20:28	18°♁20'18	0°24'10
max. Earth dist.	1183 Jun 14 j 20:17	27°♁54'50	6.19349 AU	min. Earth dist.	1189 Jun 04 j 04:28	18°♁10'05	4.23316 AU
	1183 Jun 24 j 01:48	0°♁		direct	1189 Aug 03 j 09:45	13°♁23'03	
morning rise	1183 Jun 26 j 18:38	0°♁36'27		desc. node	1189 Nov 18 j 22:07	27°♁50'10	
asc. node	1183 Aug 07 j 15:00	9°♁30'32			1189 Nov 28 j 13:10	0°♁	
retrograde	1183 Oct 30 j 04:32	19°♁00'07		evening set	1189 Dec 06 j 16:01	1°♁51'43	
opposition	1183 Dec 28 j 21:34	13°♁58'17	0°20'24	max. Earth dist.	1189 Dec 17 j 20:21	4°♁27'30	6.16433 AU
min. Earth dist.	1183 Dec 28 j 01:01	14°♁05'12	4.26177 AU				
direct	1184 Feb 26 j 23:11	8°♁56'28		conjunction	1189 Dec 19 j 08:39	4°♁48'37	-0°03'05
evening set	1184 Jul 02 j 21:35	27°♁09'14		minimum elong	1189 Dec 19 j 08:38	4°♁48'37	0°03'05
	1184 Jul 15 j 20:04	0°Ω		behind sun begin	1189 Dec 19 j 00:40	4°♁44'00	
				behind sun end	1189 Dec 19 j 16:36	4°♁53'14	
conjunction	1184 Jul 16 j 11:11	0°Ω08'20	0°31'55	morning rise	1190 Jan 01 j 01:50	7°♁46'02	
minimum elong	1184 Jul 16 j 11:09	0°Ω08'19	0°31'55	retrograde	1190 May 08 j 12:43	26°♁47'23	
max. Earth dist.	1184 Jul 17 j 04:32	0°Ω17'53	6.32520 AU	opposition	1190 Jul 08 j 06:11	21°♁52'02	-0°33'52
morning rise	1184 Jul 29 j 23:08	3°Ω06'21		min. Earth dist.	1190 Jul 08 j 22:55	21°♁46'37	4.09678 AU
	1184 Sep 28 j 04:58	15°Ω		direct	1190 Sep 06 j 09:39	16°♁57'11	

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

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

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

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

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

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

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

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

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

conjunction	1293 Sep 25 j 16:00	10°♄00'09	1°07'38	max. Earth dist.	1299 Mar 10 j 02:51	25°♄50'49	5.95885 AU
minimum elong	1293 Sep 25 j 16:00	10°♄00'09	1°07'37	morning rise	1299 Mar 22 j 06:43	28°♄46'37	
morning rise	1293 Oct 08 j 10:29	12°♄46'34			1299 Mar 27 j 09:35	0°♄	
retrograde	1294 Feb 05 j 17:55	29°♄37'22		retrograde	1299 Aug 01 j 16:12	19°♄24'43	
opposition	1294 Apr 07 j 11:42	24°♄45'13	1°32'03	min. Earth dist.	1299 Sep 29 j 07:33	14°♄30'41	3.96829 AU
min. Earth dist.	1294 Apr 08 j 18:56	24°♄35'14	4.42029 AU	opposition	1299 Sep 30 j 11:51	14°♄21'06	-1°38'54
direct	1294 Jun 09 j 04:50	19°♄43'50		direct	1299 Nov 27 j 09:05	9°♄26'22	
	1294 Sep 07 j 23:27	0°♄		evening set	1300 Apr 01 j 02:49	29°♄02'01	
evening set	1294 Oct 13 j 10:33	7°♄25'34			1300 Apr 05 j 04:39	0°♄	
max. Earth dist.	1294 Oct 24 j 01:55	9°♄46'27	6.38046 AU				
conjunction	1294 Oct 26 j 03:25	10°♄13'51	0°54'25	conjunction	1300 Apr 14 j 16:05	2°♄15'17	-0°58'40
minimum elong	1294 Oct 26 j 03:27	10°♄13'52	0°54'25	minimum elong	1300 Apr 14 j 16:07	2°♄15'18	0°58'39
morning rise	1294 Nov 07 j 18:25	13°♄01'22		max. Earth dist.	1300 Apr 16 j 19:50	2°♄46'04	5.99753 AU
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retrograde	1295 Mar 09 j 17:01	0°♄21'16		retrograde	1300 Sep 06 j 06:22	25°♄38'05	
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opposition	1295 May 09 j 13:51	25°♄29'23	1°00'59	opposition	1300 Nov 04 j 19:34	20°♄32'58	-1°08'06
min. Earth dist.	1295 May 11 j 02:23	25°♄17'45	4.32789 AU	direct	1301 Jan 02 j 01:17	15°♄35'26	
direct	1295 Jul 10 j 21:02	20°♄30'05		evening set	1301 Apr 17 j 05:34	0°♄	
	1295 Oct 04 j 06:19	0°♄			1301 May 08 j 06:21	4°♄45'06	
evening set	1295 Nov 13 j 13:11	8°♄35'20		conjunction	1301 May 22 j 00:16	7°♄55'28	-0°28'52
max. Earth dist.	1295 Nov 24 j 05:48	11°♄00'54	6.26418 AU	minimum elong	1301 May 22 j 00:18	7°♄55'29	0°28'51
conjunction	1295 Nov 26 j 04:58	11°♄27'46	0°25'18	max. Earth dist.	1301 May 24 j 04:57	8°♄25'54	6.10790 AU
minimum elong	1295 Nov 26 j 05:00	11°♄27'46	0°25'17	morning rise	1301 Jun 04 j 19:27	11°♄06'11	
morning rise	1295 Dec 08 j 19:54	14°♄20'03			1301 Sep 29 j 12:09	0°♄	
	1296 Mar 01 j 08:41	0°♄		retrograde	1301 Oct 10 j 10:47	0°♄11'54	
retrograde	1296 Apr 11 j 14:59	2°♄33'12			1301 Oct 21 j 08:33	30°♄	
	1296 May 23 j 11:14	30°♄		min. Earth dist.	1301 Dec 07 j 20:29	25°♄18'01	4.17651 AU
opposition	1296 Jun 11 j 12:05	27°♄39'56	0°09'53	opposition	1301 Dec 09 j 01:46	25°♄08'05	-0°14'16
min. Earth dist.	1296 Jun 12 j 17:17	27°♄30'35	4.19454 AU	direct	1302 Feb 06 j 07:14	20°♄07'38	
direct	1296 Aug 11 j 16:10	22°♄43'16		asc. node	1302 Mar 17 j 12:04	22°♄30'42	
desc. node	1296 Aug 18 j 15:42	22°♄47'51			1302 May 03 j 01:37	0°♄	
	1296 Oct 22 j 15:53	0°♄		evening set	1302 Jun 13 j 00:30	8°♄41'10	
evening set	1296 Dec 14 j 23:51	11°♄22'56		conjunction	1302 Jun 26 j 17:25	11°♄44'58	0°09'51
max. Earth dist.	1296 Dec 26 j 10:10	14°♄03'31	6.12523 AU	minimum elong	1302 Jun 26 j 17:25	11°♄44'58	0°09'51
conjunction	1296 Dec 27 j 17:20	14°♄21'50	-0°12'59	behind sun begin	1302 Jun 26 j 10:43	11°♄41'14	
minimum elong	1296 Dec 27 j 17:20	14°♄21'50	0°12'58	behind sun end	1302 Jun 27 j 00:07	11°♄48'42	
behind sun begin	1296 Dec 27 j 12:20	14°♄18'54		max. Earth dist.	1302 Jun 28 j 03:56	12°♄04'18	6.24683 AU
behind sun end	1296 Dec 27 j 22:20	14°♄24'45		morning rise	1302 Jul 10 j 09:36	14°♄48'08	
morning rise	1297 Jan 09 j 11:40	17°♄21'25			1302 Sep 29 j 20:14	0°♄	
	1297 Mar 10 j 03:31	0°♄		retrograde	1302 Nov 11 j 14:20	2°♄47'59	
retrograde	1297 May 17 j 21:15	6°♄41'22			1302 Dec 24 j 05:39	30°♄	
opposition	1297 Jul 17 j 11:13	1°♄45'15	-0°47'54	opposition	1303 Jan 10 j 08:50	27°♄47'30	0°40'52
min. Earth dist.	1297 Jul 18 j 00:01	1°♄41'05	4.06053 AU	min. Earth dist.	1303 Jan 09 j 18:59	27°♄52'07	4.31142 AU
	1297 Jul 31 j 05:55	30°♄		direct	1303 Mar 11 j 23:20	22°♄45'05	
direct	1297 Sep 15 j 06:34	26°♄50'51		evening set	1303 May 24 j 06:48	0°♄	
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evening set	1298 Jan 18 j 09:07	16°♄06'21		minimum elong	1303 Jul 30 j 08:51	13°♄42'14	0°43'49
conjunction	1298 Jan 31 j 07:19	19°♄12'20	-0°48'19	max. Earth dist.	1303 Jul 30 j 16:45	13°♄46'33	6.36739 AU
minimum elong	1298 Jan 31 j 07:17	19°♄12'19	0°48'19		1303 Aug 05 j 07:08	15°♄	
max. Earth dist.	1298 Jan 31 j 04:51	19°♄10'51	6.00847 AU	morning rise	1303 Aug 12 j 17:39	16°♄37'14	
morning rise	1298 Feb 13 j 07:42	22°♄19'41			1303 Oct 22 j 13:40	0°♄	
	1298 Mar 18 j 15:56	0°♄		retrograde	1303 Dec 12 j 05:29	3°♄48'32	
retrograde	1298 Jun 24 j 18:05	12°♄37'27			1304 Feb 01 j 14:47	30°♄	
opposition	1298 Aug 23 j 21:38	7°♄37'31	-1°30'56	opposition	1304 Feb 10 j 08:28	28°♄51'49	1°21'15
min. Earth dist.	1298 Aug 23 j 11:47	7°♄40'47	3.97358 AU	min. Earth dist.	1304 Feb 10 j 11:52	28°♄50'42	4.40973 AU
direct	1298 Oct 21 j 09:19	2°♄44'04		direct	1304 Apr 12 j 02:53	23°♄48'45	
evening set	1299 Feb 23 j 16:59	22°♄22'06			1304 Jun 19 j 05:55	0°♄	
conjunction	1299 Mar 08 j 22:12	25°♄33'30	-1°06'26	evening set	1304 Aug 17 j 01:52	11°♄28'46	
minimum elong	1299 Mar 08 j 22:12	25°♄33'30	1°06'27	max. Earth dist.	1304 Aug 29 j 10:16	14°♄08'52	6.43583 AU
				conjunction	1304 Aug 30 j 05:09	14°♄19'06	1°04'14





























































































































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





























































































































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	1315 Sep 30 j 03:27	0°♍			1321 Jan 31 j 07:22	0°♍	
retrograde	1315 Dec 16 j 11:57	8°♍09'41			1321 Apr 24 j 20:32	15°♍	
opposition	1316 Feb 14 j 14:55	3°♍13'28	1°25'04	retrograde	1321 May 28 j 04:30	16°♍42'57	
min. Earth dist.	1316 Feb 14 j 21:13	3°♍11'24	4.41620 AU		1321 Jun 30 j 14:21	15°♍	
	1316 Mar 12 j 11:22	30°♍		opposition	1321 Jul 27 j 16:45	11°♍45'49	-1°02'11
direct	1316 Apr 16 j 13:20	28°Ω10'26		min. Earth dist.	1321 Jul 27 j 23:17	11°♍43'40	4.03463 AU
	1316 May 21 j 23:49	0°♍		direct	1321 Sep 25 j 02:39	6°♍51'47	
evening set	1316 Aug 21 j 11:13	15°♍49'26			1321 Dec 08 j 16:01	15°♍	
				evening set	1322 Jan 28 j 05:07	26°♍13'45	
conjunction	1316 Sep 03 j 13:31	18°♍39'16	1°05'39	conjunction	1322 Feb 10 j 05:00	29°♍21'15	-0°55'31
minimum elong	1316 Sep 03 j 13:30	18°♍39'15	1°05'40	minimum elong	1322 Feb 10 j 04:58	29°♍21'14	0°55'31
max. Earth dist.	1316 Sep 02 j 15:31	18°♍27'21	6.43836 AU	max. Earth dist.	1322 Feb 10 j 11:18	29°♍25'03	5.99035 AU
morning rise	1316 Sep 16 j 12:51	21°♍27'39			1322 Feb 12 j 21:17	0°♍	
	1316 Oct 28 j 12:54	0°♍		morning rise	1322 Feb 23 j 07:18	2°♍30'15	
retrograde	1317 Jan 14 j 16:48	8°♍15'43		retrograde	1322 Jul 05 j 05:24	22°♍57'02	
opposition	1317 Mar 16 j 04:57	3°♍22'19	1°38'35	opposition	1322 Sep 03 j 06:36	17°♍55'59	-1°37'04
min. Earth dist.	1317 Mar 17 j 02:51	3°♍15'16	4.44416 AU	min. Earth dist.	1322 Sep 02 j 16:00	18°♍00'52	3.96549 AU
	1317 Apr 14 j 00:17	30°♍		direct	1322 Oct 31 j 13:12	13°♍02'22	
direct	1317 May 17 j 19:14	28°♍19'56			1323 Feb 22 j 13:48	0°♍	
	1317 Jun 20 j 20:33	0°♍		evening set	1323 Mar 05 j 21:54	2°♍41'46	
evening set	1317 Sep 21 j 09:43	15°♍54'42					
max. Earth dist.	1317 Oct 02 j 13:06	18°♍20'08	6.43022 AU	conjunction	1323 Mar 19 j 05:20	5°♍54'03	-1°06'54
				minimum elong	1323 Mar 19 j 05:20	5°♍54'03	1°06'53
conjunction	1317 Oct 04 j 05:37	18°♍42'16	1°05'40	max. Earth dist.	1323 Mar 20 j 17:01	6°♍15'33	5.96129 AU
minimum elong	1317 Oct 04 j 05:37	18°♍42'16	1°05'40	morning rise	1323 Apr 01 j 16:04	9°♍08'01	
morning rise	1317 Oct 16 j 22:48	21°♍28'38		retrograde	1323 Aug 11 j 22:08	29°♍42'45	
	1317 Nov 27 j 11:57	0°♍		min. Earth dist.	1323 Oct 09 j 08:10	24°♍49'04	3.98127 AU
retrograde	1318 Feb 14 j 13:39	8°♍24'59		opposition	1323 Oct 10 j 15:12	24°♍38'32	-1°33'50
opposition	1318 Apr 16 j 08:38	3°♍33'04	1°25'41	direct	1323 Dec 07 j 12:03	19°♍43'08	
min. Earth dist.	1318 Apr 17 j 17:59	3°♍22'26	4.40089 AU		1324 Mar 01 j 05:37	0°♍	
	1318 May 17 j 09:58	30°♍		evening set	1324 Apr 11 j 09:41	9°♍14'17	
direct	1318 Jun 18 j 01:04	28°♍32'16					
	1318 Jul 19 j 17:17	0°♍		conjunction	1324 Apr 25 j 00:40	12°♍27'21	-0°52'10
	1318 Oct 16 j 03:09	15°♍		minimum elong	1324 Apr 25 j 00:42	12°♍27'22	0°52'10
evening set	1318 Oct 22 j 02:24	16°♍18'43		max. Earth dist.	1324 Apr 27 j 05:16	12°♍58'27	6.01970 AU
max. Earth dist.	1318 Nov 01 j 16:50	18°♍40'02	6.35452 AU		1324 May 05 j 19:25	15°♍	
				morning rise	1324 May 08 j 18:07	15°♍41'28	
conjunction	1318 Nov 03 j 18:37	19°♍07'46	0°47'36		1324 Jul 16 j 09:33	0°♍	
minimum elong	1318 Nov 03 j 18:39	19°♍07'47	0°47'36	retrograde	1324 Sep 15 j 22:10	5°♍36'01	
morning rise	1318 Nov 16 j 09:16	21°♍56'12		min. Earth dist.	1324 Nov 13 j 01:50	0°♍42'28	4.07550 AU
	1318 Dec 24 j 13:42	0°♍		opposition	1324 Nov 14 j 11:24	0°♍31'01	-0°54'36
retrograde	1319 Mar 18 j 22:50	9°♍27'52			1324 Nov 18 j 06:29	30°♍	
opposition	1319 May 18 j 21:10	4°♍35'43	0°48'13	direct	1325 Jan 11 j 21:51	25°♍32'41	
min. Earth dist.	1319 May 20 j 08:08	4°♍24'34	4.29680 AU		1325 Mar 06 j 17:38	0°♍	
	1319 Jul 04 j 04:19	30°♍		evening set	1325 May 18 j 07:25	14°♍34'18	
direct	1319 Jul 19 j 22:41	29°♍37'09					
	1319 Aug 04 j 16:58	0°♍		conjunction	1325 Jun 01 j 01:50	17°♍43'22	-0°18'27
evening set	1319 Nov 22 j 11:00	17°♍49'46		minimum elong	1325 Jun 01 j 01:51	17°♍43'23	0°18'27
max. Earth dist.	1319 Dec 03 j 07:55	20°♍18'57	6.23055 AU	max. Earth dist.	1325 Jun 03 j 04:03	18°♍12'08	6.14155 AU
				morning rise	1325 Jun 14 j 20:47	20°♍52'27	
conjunction	1319 Dec 05 j 02:57	20°♍43'38	0°15'06		1325 Jul 27 j 06:58	0°♍	
minimum elong	1319 Dec 05 j 02:57	20°♍43'38	0°15'07	retrograde	1325 Oct 19 j 13:46	9°♍40'48	
behind sun begin	1319 Dec 04 j 23:54	20°♍41'54		asc. node	1325 Dec 06 j 15:43	6°♍10'09	
behind sun end	1319 Dec 05 j 06:01	20°♍45'23		min. Earth dist.	1325 Dec 17 j 02:57	4°♍46'40	4.21178 AU
morning rise	1319 Dec 17 j 18:21	23°♍37'32		opposition	1325 Dec 18 j 05:11	4°♍37'48	0°01'40
	1320 Jan 15 j 13:38	0°♍			1326 Jan 31 j 10:58	30°♍	
retrograde	1320 Apr 21 j 11:22	12°♍06'45		direct	1326 Feb 15 j 18:50	29°♍36'47	
desc. node	1320 May 09 j 01:22	11°♍37'52			1326 Mar 03 j 06:55	0°♍	
opposition	1320 Jun 21 j 07:39	7°♍12'51	-0°06'19	evening set	1326 Jun 22 j 15:05	18°♍01'33	
min. Earth dist.	1320 Jun 22 j 09:28	7°♍04'33	4.16051 AU				
direct	1320 Aug 21 j 04:25	2°♍16'52		conjunction	1326 Jul 06 j 06:45	21°♍03'22	0°20'10
evening set	1320 Dec 24 j 08:00	21°♍04'54		minimum elong	1326 Jul 06 j 06:43	21°♍03'22	0°20'10
max. Earth dist.	1321 Jan 05 j 01:17	23°♍50'42	6.09379 AU	max. Earth dist.	1326 Jul 07 j 10:47	21°♍18'57	6.28133 AU
				morning rise	1326 Jul 19 j 21:19	24°♍04'21	
conjunction	1321 Jan 06 j 02:20	24°♍05'30	-0°23'39		1326 Aug 16 j 14:00	0°♍	
minimum elong	1321 Jan 06 j 02:19	24°♍05'29	0°23'39				

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

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

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

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

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

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

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

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

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

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
































































































































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

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



























































































































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




































































































































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

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

min. Earth dist.	1498 Jun 26 j 18:00	12°  13'19	4.14737 AU	evening set	1504 Jun 26 j 01:57	23°  12'38	
direct	1498 Aug 25 j 10:42	7°  25'19					
evening set	1498 Dec 28 j 16:16	26°  17'29		conjunction	1504 Jul 09 j 17:15	26°  13'48	0°23'47
				minimum elong	1504 Jul 09 j 17:13	26°  13'47	0°23'46
conjunction	1499 Jan 10 j 11:04	29°  18'48	-0°27'10	max. Earth dist.	1504 Jul 10 j 20:40	26°  29'01	6.29235 AU
minimum elong	1499 Jan 10 j 11:02	29°  18'47	0°27'10	morning rise	1504 Jul 23 j 07:04	29°  14'02	
max. Earth dist.	1499 Jan 09 j 12:32	29°  05'27	6.08101 AU		1504 Jul 26 j 18:53	0° 	
	1499 Jan 13 j 08:32	0° 			1504 Oct 19 j 09:24	15° 	
morning rise	1499 Jan 23 j 07:07	2°  21'03		retrograde	1504 Nov 23 j 11:10	16°  54'37	
	1499 Mar 23 j 06:09	15° 			1504 Dec 28 j 07:28	15°  R 	
retrograde	1499 Jun 01 j 20:27	22°  02'52		opposition	1505 Jan 22 j 08:15	11°  55'29	0°58'11
opposition	1499 Aug 01 j 06:54	17°  05'30	-1°06'28	min. Earth dist.	1505 Jan 21 j 23:17	11°  58'27	4.35281 AU
min. Earth dist.	1499 Aug 01 j 12:45	17°  03'35	4.02342 AU	direct	1505 Mar 24 j 09:09	6°  52'50	
	1499 Aug 17 j 18:49	15°  R 			1505 Jun 11 j 02:26	15° 	
direct	1499 Sep 29 j 14:46	12°  11'33		evening set	1505 Jul 29 j 07:36	24°  54'57	
	1499 Nov 10 j 12:12	15° 					
	1500 Jan 25 j 23:33	0° 		conjunction	1505 Aug 11 j 15:52	27°  53'742	0°53'05
evening set	1500 Feb 01 j 18:27	1°  37'12		minimum elong	1505 Aug 11 j 15:50	27°  53'741	0°53'05
				max. Earth dist.	1505 Aug 11 j 14:47	27°  53'707	6.40175 AU
conjunction	1500 Feb 14 j 18:51	4°  45'21	-0°57'18		1505 Aug 22 j 14:01	0° 	
minimum elong	1500 Feb 14 j 18:49	4°  45'19	0°57'18	morning rise	1505 Aug 24 j 21:40	0°  30'05	
max. Earth dist.	1500 Feb 15 j 02:40	4°  50'04	5.98167 AU	retrograde	1505 Dec 23 j 18:43	17°  39'12	
morning rise	1500 Feb 27 j 21:53	7°  55'02		opposition	1506 Feb 22 j 00:44	12°  33'37	1°29'56
retrograde	1500 Jul 08 j 22:48	28°  25'17		min. Earth dist.	1506 Feb 22 j 09:55	12°  30'37	4.43539 AU
opposition	1500 Sep 06 j 22:51	23°  24'00	-1°37'49	direct	1506 Apr 25 j 03:48	7°  30'38	
min. Earth dist.	1500 Sep 06 j 06:02	23°  29'38	3.96044 AU	evening set	1506 Aug 29 j 22:47	25°  30'41	
direct	1500 Nov 04 j 03:14	18°  30'19					
	1501 Feb 02 j 02:16	0° 		conjunction	1506 Sep 11 j 23:32	27°  35'24	1°06'47
evening set	1501 Mar 09 j 14:35	8°  11'18		minimum elong	1506 Sep 11 j 23:31	27°  35'24	1°06'47
				max. Earth dist.	1506 Sep 10 j 21:49	27°  39'29	6.45070 AU
conjunction	1501 Mar 22 j 22:38	11°  23'56	-1°06'01		1506 Sep 21 j 17:38	0° 	
minimum elong	1501 Mar 22 j 22:39	11°  23'56	1°06'01	morning rise	1506 Sep 24 j 21:12	0°  40'41	
max. Earth dist.	1501 Mar 24 j 12:12	11°  46'34	5.96021 AU	retrograde	1507 Jan 22 j 22:33	17°  25'39	
morning rise	1501 Apr 05 j 09:58	14°  38'13		opposition	1507 Mar 24 j 13:26	12°  32'41	1°36'58
	1501 Jun 17 j 12:33	0° 		min. Earth dist.	1507 Mar 25 j 14:20	12°  24'41	4.44890 AU
retrograde	1501 Aug 15 j 13:56	5°  12'17		direct	1507 May 26 j 06:06	7°  30'32	
min. Earth dist.	1501 Oct 12 j 23:19	0°  18'37	3.98413 AU	evening set	1507 Sep 29 j 16:00	25°  03'42	
opposition	1501 Oct 14 j 06:56	0°  07'52	-1°30'31	max. Earth dist.	1507 Oct 10 j 13:57	27°  26'27	6.42683 AU
	1501 Oct 15 j 06:05	30°  R 					
direct	1501 Dec 11 j 04:18	25°  12'18		conjunction	1507 Oct 12 j 10:46	27°  50'58	1°02'21
	1502 Feb 04 j 09:14	0° 		minimum elong	1507 Oct 12 j 10:48	27°  50'59	1°02'21
evening set	1502 Apr 16 j 02:42	14°  42'15			1507 Oct 22 j 06:56	0° 	
	1502 Apr 17 j 08:57	15° 		morning rise	1507 Oct 25 j 03:15	0°  37'11	
					1508 Jan 12 j 02:42	15° 	
conjunction	1502 Apr 29 j 18:13	17°  55'13	-0°48'57	retrograde	1508 Feb 23 j 00:14	17°  36'35	
minimum elong	1502 Apr 29 j 18:16	17°  55'15	0°48'56		1508 Apr 05 j 09:09	15°  R 	
max. Earth dist.	1502 May 02 j 01:01	18°  27'34	6.02624 AU	opposition	1508 Apr 23 j 20:09	12°  34'42	1°18'04
morning rise	1502 May 13 j 11:54	21°  09'10		min. Earth dist.	1508 Apr 25 j 07:38	12°  33'23	4.38931 AU
	1502 Jun 22 j 04:23	0° 		direct	1508 Jun 25 j 11:44	7°  34'09	
retrograde	1502 Sep 20 j 11:15	10°  15'21			1508 Sep 07 j 13:54	15° 	
opposition	1502 Nov 18 j 23:50	5°  15'47	-0°48'46	evening set	1508 Oct 29 j 08:29	25°  33'13	
min. Earth dist.	1502 Nov 17 j 14:08	6°  05'56	4.08474 AU	max. Earth dist.	1508 Nov 08 j 22:13	27°  34'43	6.33562 AU
direct	1503 Jan 16 j 12:03	0°  15'56					
evening set	1503 May 22 j 22:22	19°  15'41		conjunction	1508 Nov 11 j 00:35	28°  32'55	0°40'37
				minimum elong	1508 Nov 11 j 00:37	28°  32'56	0°40'36
conjunction	1503 Jun 05 j 16:36	23°  11'03	-0°14'17		1508 Nov 18 j 05:58	0° 	
minimum elong	1503 Jun 05 j 16:37	23°  11'03	0°14'16	morning rise	1508 Nov 23 j 15:05	1°  12'05	
behind sun begin	1503 Jun 05 j 12:58	23°  11'01		retrograde	1509 Mar 26 j 16:54	18°  52'58	
behind sun end	1503 Jun 05 j 20:17	23°  11'05		opposition	1509 May 26 j 15:39	14°  50'34	0°36'07
max. Earth dist.	1503 Jun 07 j 16:59	23°  11'30	6.15243 AU	min. Earth dist.	1509 May 28 j 02:21	13°  54'30	4.27136 AU
morning rise	1503 Jun 19 j 11:30	26°  11'46		direct	1509 Jul 27 j 11:34	9°  50'22	
	1503 Jul 06 j 12:32	0° 		evening set	1509 Nov 29 j 22:57	27°  52'15	
retrograde	1503 Oct 23 j 21:51	14°  54'48		max. Earth dist.	1509 Dec 10 j 20:43	29°  52'35	6.20057 AU
asc. node	1503 Oct 30 j 04:30	14°  50'51			1509 Dec 11 j 09:33	0° 	
opposition	1503 Dec 22 j 13:48	9°  52'02	0°07'37				
min. Earth dist.	1503 Dec 21 j 12:28	10°  50'36	4.22310 AU	conjunction	1509 Dec 12 j 15:09	0°  31'06	0°06'07
direct	1504 Feb 20 j 06:05	4°  50'52		minimum elong	1509 Dec 12 j 15:09	0°  31'06	0°06'07

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

max. Earth dist.	1521 Dec 15 j 13:25	4°  40'35	6.17878 AU	conjunction	1527 Jun 15 j 20:33	2°  56'13	-0°03'13
				minimum elong	1527 Jun 15 j 20:35	2°  56'14	0°03'13
conjunction	1521 Dec 17 j 05:45	5°  04'00	0°00'37	behind sun begin	1527 Jun 15 j 12:15	2°  51'33	
minimum elong	1521 Dec 17 j 05:44	5°  03'59	0°00'36	behind sun end	1527 Jun 16 j 04:54	3°  00'55	
behind sun begin	1521 Dec 16 j 21:44	4°  59'23		max. Earth dist.	1527 Jun 17 j 17:52	3°  21'52	6.19405 AU
behind sun end	1521 Dec 17 j 13:43	5°  08'36		morning rise	1527 Jun 29 j 14:28	6°  02'27	
desc. node	1521 Dec 23 j 06:49	6°  28'12		asc. node	1527 Jul 18 j 05:52	10°  09'13	
morning rise	1521 Dec 29 j 22:24	8°  00'35		retrograde	1527 Nov 01 j 23:39	24°  25'28	
retrograde	1522 May 05 j 22:04	26°  54'36		opposition	1527 Dec 31 j 17:53	19°  23'30	0°23'17
opposition	1522 Jul 05 j 15:19	21°  59'48	-0°28'06	min. Earth dist.	1527 Dec 30 j 19:59	19°  30'52	4.26496 AU
min. Earth dist.	1522 Jul 06 j 12:25	21°  52'59	4.10665 AU	direct	1528 Feb 29 j 19:24	14°  21'44	
direct	1522 Sep 03 j 23:08	17°  04'32			1528 Jun 23 j 22:34	0°  00'00	
	1522 Dec 11 j 12:13	0°  00'00		evening set	1528 Jul 05 j 16:04	2°  32'31	
evening set	1523 Jan 07 j 04:26	6°  08'31					
max. Earth dist.	1523 Jan 19 j 07:55	9°  02'10	6.04280 AU	conjunction	1528 Jul 19 j 05:31	5°  31'18	0°33'21
				minimum elong	1528 Jul 19 j 05:29	5°  31'17	0°33'21
conjunction	1523 Jan 20 j 00:30	9°  12'04	-0°36'57	max. Earth dist.	1528 Jul 20 j 00:43	5°  41'52	6.33074 AU
minimum elong	1523 Jan 20 j 00:28	9°  12'03	0°36'57	morning rise	1528 Aug 01 j 17:16	8°  02'00	
morning rise	1523 Feb 01 j 22:25	12°  16'47			1528 Sep 01 j 14:58	15°  00'00	
	1523 Feb 13 j 11:55	15°  00'00		retrograde	1528 Dec 02 j 01:45	25°  05'47	
	1523 May 04 j 19:40	0°  00'00		opposition	1529 Jan 31 j 01:54	20°  05'06	1°09'23
retrograde	1523 Jun 12 j 10:01	2°  00'00		min. Earth dist.	1529 Jan 30 j 22:27	20°  05'14	4.38472 AU
	1523 Jul 21 j 03:56	30°  00'00		direct	1529 Apr 02 j 11:59	15°  05'09	
opposition	1523 Aug 11 j 16:43	27°  19'13	-1°18'25		1529 Jul 21 j 06:50	0°  00'00	
min. Earth dist.	1523 Aug 11 j 16:17	27°  19'22	3.99177 AU	evening set	1529 Aug 07 j 08:34	3°  36'56	
direct	1523 Oct 09 j 14:47	22°  25'34					
	1523 Dec 19 j 18:12	0°  00'00		conjunction	1529 Aug 20 j 14:42	6°  38'52	0°58'41
evening set	1524 Feb 11 j 22:04	12°  00'46		minimum elong	1529 Aug 20 j 14:40	6°  38'51	0°58'40
				max. Earth dist.	1529 Aug 20 j 05:55	6°  24'07	6.42437 AU
conjunction	1524 Feb 25 j 00:42	15°  00'55	-1°02'16	morning rise	1529 Sep 02 j 18:02	9°  19'22	
minimum elong	1524 Feb 25 j 00:40	15°  00'54	1°02'15	retrograde	1530 Jan 01 j 05:08	26°  11'08	
max. Earth dist.	1524 Feb 25 j 18:14	15°  00'55	5.95977 AU	opposition	1530 Mar 02 j 14:16	21°  16'22	1°34'29
morning rise	1524 Mar 09 j 06:03	18°  00'00		min. Earth dist.	1530 Mar 03 j 04:22	21°  16'47	4.44754 AU
	1524 Apr 30 j 05:21	0°  00'00		direct	1530 May 03 j 22:35	16°  13'28	
retrograde	1524 Jul 19 j 16:45	9°  02'18			1530 Aug 20 j 20:36	0°  00'00	
opposition	1524 Sep 17 j 13:07	4°  00'00	-1°39'51	evening set	1530 Sep 07 j 15:26	3°  45'23	
min. Earth dist.	1524 Sep 16 j 15:23	4°  07'19	3.95132 AU	max. Earth dist.	1530 Sep 19 j 05:33	6°  15'35	6.45114 AU
	1524 Oct 22 j 13:20	30°  00'00					
direct	1524 Nov 14 j 12:33	29°  06'03		conjunction	1530 Sep 20 j 14:16	6°  33'19	1°07'22
	1524 Dec 07 j 11:28	0°  00'00		minimum elong	1530 Sep 20 j 14:16	6°  33'19	1°07'21
evening set	1525 Mar 20 j 04:30	18°  00'00		morning rise	1530 Oct 03 j 10:12	9°  19'55	
				retrograde	1531 Jan 31 j 13:42	26°  06'18	
conjunction	1525 Apr 02 j 14:57	22°  02'45	-1°03'36	opposition	1531 Apr 02 j 05:57	21°  13'47	1°34'10
minimum elong	1525 Apr 02 j 14:58	22°  02'46	1°03'35	min. Earth dist.	1531 Apr 03 j 11:20	21°  14'23	4.43781 AU
max. Earth dist.	1525 Apr 04 j 11:57	22°  02'48	5.96474 AU	direct	1531 Jun 04 j 00:21	16°  11'59	
morning rise	1525 Apr 16 j 04:38	25°  00'00			1531 Sep 20 j 11:34	0°  00'00	
	1525 May 06 j 06:55	0°  00'00		evening set	1531 Oct 08 j 06:36	3°  48'36	
	1525 Aug 04 j 10:02	15°  00'00		max. Earth dist.	1531 Oct 18 j 23:53	6°  38'38	6.40485 AU
retrograde	1525 Aug 25 j 23:59	15°  00'00					
	1525 Sep 16 j 10:36	15°  00'00		conjunction	1531 Oct 21 j 00:23	6°  36'19	0°57'48
min. Earth dist.	1525 Oct 23 j 04:01	10°  00'00	4.00194 AU	minimum elong	1531 Oct 21 j 00:24	6°  36'20	0°57'48
opposition	1525 Oct 24 j 14:50	10°  00'00	-1°21'25	morning rise	1531 Nov 02 j 16:03	9°  23'07	
direct	1525 Dec 21 j 13:31	5°  00'00			1531 Nov 29 j 01:16	15°  00'00	
	1526 Mar 11 j 15:56	15°  00'00		retrograde	1532 Mar 03 j 00:59	26°  32'30	
evening set	1526 Apr 26 j 16:40	25°  00'00		opposition	1532 May 02 j 22:01	21°  40'37	1°08'15
				min. Earth dist.	1532 May 04 j 10:31	21°  40'59	4.35773 AU
conjunction	1526 May 10 j 09:32	28°  00'00	-0°40'14	direct	1532 Jul 04 j 09:13	16°  40'39	
minimum elong	1526 May 10 j 09:35	28°  00'00	0°40'14		1532 Oct 16 j 23:37	0°  00'00	
max. Earth dist.	1526 May 12 j 17:14	28°  00'00	6.05552 AU	evening set	1532 Nov 07 j 04:04	4°  38'16	
	1526 May 17 j 11:40	0°  00'00		max. Earth dist.	1532 Nov 17 j 18:44	7°  01'35	6.29699 AU
morning rise	1526 May 24 j 04:16	1°  00'00					
retrograde	1526 Sep 30 j 04:59	21°  00'00		conjunction	1532 Nov 19 j 20:02	7°  29'26	0°31'47
min. Earth dist.	1526 Nov 27 j 09:35	16°  00'00	4.12179 AU	minimum elong	1532 Nov 19 j 20:04	7°  29'27	0°31'47
opposition	1526 Nov 28 j 18:17	16°  00'00	-0°33'11	morning rise	1532 Dec 02 j 10:42	10°  20'17	
direct	1527 Jun 26 j 13:43	11°  00'00		retrograde	1533 Apr 05 j 10:21	28°  21'18	
evening set	1527 Jun 02 j 02:34	29°  00'00		opposition	1533 Jun 05 j 07:53	23°  25'38	0°21'02
	1527 Jun 02 j 20:55	0°  00'00		min. Earth dist.	1533 Jun 06 j 16:57	23°  25'04	4.22807 AU

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

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

min. Earth dist.	1555 Apr 12 j 09:39	29° <u>♄</u> 49'20	4.41957 AU		1561 Mar 16 j 13:12	0° <u>♄</u>	
direct	1555 Jun 12 j 19:50	24° <u>♄</u> 58'18		evening set	1561 Apr 04 j 22:14	4° <u>♄</u> 31'04	
	1555 Aug 12 j 14:57	0° <u>♄</u>					
evening set	1555 Oct 16 j 22:50	12° <u>♄</u> 39'55		conjunction	1561 Apr 18 j 11:38	7° <u>♄</u> 44'29	-0°56'17
	1555 Oct 27 j 12:42	15° <u>♄</u>		minimum elong	1561 Apr 18 j 11:41	7° <u>♄</u> 44'31	0°56'18
max. Earth dist.	1555 Oct 27 j 14:21	15° <u>♄</u> 00'55	6.37881 AU	max. Earth dist.	1561 Apr 20 j 14:28	8° <u>♄</u> 14'45	5.99670 AU
				morning rise	1561 May 02 j 03:55	10° <u>♄</u> 59'12	
conjunction	1555 Oct 29 j 15:51	15° <u>♄</u> 28'20	0°51'53		1561 May 19 j 10:22	15° <u>♄</u>	
minimum elong	1555 Oct 29 j 15:53	15° <u>♄</u> 28'21	0°51'53		1561 Aug 14 j 17:29	0° <u>♄</u>	
morning rise	1555 Nov 11 j 06:55	18° <u>♄</u> 15'58		retrograde	1561 Sep 09 j 23:24	1° <u>♄</u> 07'06	
	1556 Jan 09 j 06:19	0° <u>♄</u>			1561 Oct 06 j 00:45	30° <u>♄</u>	
retrograde	1556 Mar 12 j 05:39	5° <u>♄</u> 36'48		min. Earth dist.	1561 Nov 07 j 03:00	26° <u>♄</u> 13'50	4.04692 AU
opposition	1556 May 12 j 04:02	0° <u>♄</u> 44'50	0°56'38	opposition	1561 Nov 08 j 13:41	26° <u>♄</u> 01'59	-1°03'35
min. Earth dist.	1556 May 13 j 15:42	0° <u>♄</u> 33'28	4.32536 AU	direct	1562 Jan 05 j 19:08	21° <u>♄</u> 04'23	
	1556 May 18 j 01:13	30° <u>♄</u>			1562 Mar 25 j 20:06	0° <u>♄</u>	
direct	1556 Jul 13 j 10:02	25° <u>♄</u> 45'35		evening set	1562 May 12 j 02:05	10° <u>♄</u> 14'10	
	1556 Sep 06 j 03:46	0° <u>♄</u>					
evening set	1556 Nov 16 j 02:08	13° <u>♄</u> 51'21		conjunction	1562 May 25 j 20:14	13° <u>♄</u> 24'33	-0°25'30
max. Earth dist.	1556 Nov 26 j 19:24	16° <u>♄</u> 17'24	6.26093 AU	minimum elong	1562 May 25 j 20:16	13° <u>♄</u> 24'34	0°25'30
				max. Earth dist.	1562 May 28 j 01:32	13° <u>♄</u> 55'20	6.10959 AU
conjunction	1556 Nov 28 j 18:01	16° <u>♄</u> 43'58	0°22'05	morning rise	1562 Jun 08 j 15:20	16° <u>♄</u> 35'11	
minimum elong	1556 Nov 28 j 18:03	16° <u>♄</u> 43'59	0°22'05		1562 Aug 13 j 02:31	0° <u>♄</u>	
morning rise	1556 Dec 11 j 09:04	19° <u>♄</u> 36'28		retrograde	1562 Oct 14 j 05:26	5° <u>♄</u> 39'33	
	1557 Jan 29 j 16:21	0° <u>♄</u>		opposition	1562 Dec 12 j 19:27	0° <u>♄</u> 35'54	-0°09'16
retrograde	1557 Apr 15 j 07:15	7° <u>♄</u> 51'12		min. Earth dist.	1562 Dec 11 j 14:35	0° <u>♄</u> 45'41	4.17934 AU
opposition	1557 Jun 15 j 03:19	2° <u>♄</u> 57'54	0°05'09		1562 Dec 17 j 05:40	30° <u>♄</u>	
min. Earth dist.	1557 Jun 16 j 09:18	2° <u>♄</u> 48'18	4.19055 AU	direct	1563 Feb 10 j 02:26	25° <u>♄</u> 35'28	
	1557 Jul 09 j 23:00	30° <u>♄</u>		asc. node	1563 Feb 15 j 06:22	25° <u>♄</u> 38'07	
desc. node	1557 Jul 21 j 01:05	29° <u>♄</u> 00'26			1563 Apr 05 j 13:25	0° <u>♄</u>	
direct	1557 Aug 15 j 07:58	28° <u>♄</u> 01'13		evening set	1563 Jun 16 j 19:34	14° <u>♄</u> 08'17	
	1557 Sep 20 j 06:25	0° <u>♄</u>					
evening set	1557 Dec 18 j 14:11	16° <u>♄</u> 42'05		conjunction	1563 Jun 30 j 12:12	17° <u>♄</u> 11'50	0°12'58
max. Earth dist.	1557 Dec 30 j 00:08	19° <u>♄</u> 22'36	6.12083 AU	minimum elong	1563 Jun 30 j 12:11	17° <u>♄</u> 11'49	0°12'59
				behind sun begin	1563 Jun 30 j 07:19	17° <u>♄</u> 09'06	
conjunction	1557 Dec 31 j 07:48	19° <u>♄</u> 41'13	-0°15'54	behind sun end	1563 Jun 30 j 17:04	17° <u>♄</u> 14'32	
minimum elong	1557 Dec 31 j 07:46	19° <u>♄</u> 41'12	0°15'54	max. Earth dist.	1563 Jul 01 j 22:43	17° <u>♄</u> 31'08	6.25079 AU
behind sun begin	1557 Dec 31 j 06:01	19° <u>♄</u> 40'10		morning rise	1563 Jul 14 j 04:11	20° <u>♄</u> 14'44	
behind sun end	1557 Dec 31 j 09:32	19° <u>♄</u> 42'14			1563 Aug 30 j 03:14	0° <u>♄</u>	
morning rise	1558 Jan 13 j 02:21	22° <u>♄</u> 41'04		retrograde	1563 Nov 15 j 05:47	8° <u>♄</u> 12'45	
	1558 Feb 14 j 13:20	0° <u>♄</u>		min. Earth dist.	1564 Jan 13 j 11:03	3° <u>♄</u> 17'16	4.31664 AU
retrograde	1558 May 21 j 13:43	12° <u>♄</u> 03'06		opposition	1564 Jan 14 j 01:37	3° <u>♄</u> 12'24	0°44'40
opposition	1558 Jul 21 j 03:41	7° <u>♄</u> 06'52	-0°51'29		1564 Feb 09 j 05:58	30° <u>♄</u>	
min. Earth dist.	1558 Jul 21 j 15:24	7° <u>♄</u> 03'03	4.05611 AU	direct	1564 Mar 14 j 16:48	28° <u>♄</u> 10'03	
direct	1558 Sep 18 j 20:44	2° <u>♄</u> 12'28			1564 Apr 18 j 14:28	0° <u>♄</u>	
	1558 Dec 25 j 00:57	15° <u>♄</u>			1564 Jul 14 j 06:44	15° <u>♄</u>	
evening set	1559 Jan 22 j 01:20	21° <u>♄</u> 29'32		evening set	1564 Jul 19 j 14:53	16° <u>♄</u> 09'15	
conjunction	1559 Feb 03 j 23:46	24° <u>♄</u> 35'46	-0°49'55	conjunction	1564 Aug 02 j 01:36	19° <u>♄</u> 05'06	0°45'43
minimum elong	1559 Feb 03 j 23:44	24° <u>♄</u> 35'45	0°49'55	minimum elong	1564 Aug 02 j 01:33	19° <u>♄</u> 05'05	0°45'43
max. Earth dist.	1559 Feb 03 j 21:52	24° <u>♄</u> 34'38	6.00430 AU	max. Earth dist.	1564 Aug 02 j 10:27	19° <u>♄</u> 09'56	6.37395 AU
morning rise	1559 Feb 17 j 00:22	27° <u>♄</u> 43'24		morning rise	1564 Aug 15 j 09:51	21° <u>♄</u> 59'37	
	1559 Feb 26 j 14:48	0° <u>♄</u>			1564 Sep 23 j 05:30	0° <u>♄</u>	
retrograde	1559 Jun 28 j 12:21	18° <u>♄</u> 03'07		retrograde	1564 Dec 14 j 20:00	9° <u>♄</u> 08'35	
opposition	1559 Aug 27 j 15:19	13° <u>♄</u> 03'02	-1°31'53	opposition	1565 Feb 12 j 23:42	4° <u>♄</u> 12'00	1°22'46
min. Earth dist.	1559 Aug 27 j 05:42	13° <u>♄</u> 06'14	3.96986 AU	min. Earth dist.	1565 Feb 13 j 02:54	4° <u>♄</u> 10'57	4.41737 AU
direct	1559 Oct 25 j 03:07	8° <u>♄</u> 09'30			1565 Mar 23 j 05:11	30° <u>♄</u>	
evening set	1560 Feb 27 j 11:04	27° <u>♄</u> 49'00		direct	1565 Apr 15 j 19:46	29° <u>♄</u> 09'02	
	1560 Mar 07 j 12:17	0° <u>♄</u>			1565 May 09 j 17:07	0° <u>♄</u>	
				evening set	1565 Aug 20 j 16:20	16° <u>♄</u> 46'21	
conjunction	1560 Mar 11 j 16:42	1° <u>♄</u> 00'42	-1°06'01				
minimum elong	1560 Mar 11 j 16:42	1° <u>♄</u> 00'42	1°06'00	conjunction	1565 Sep 02 j 19:10	19° <u>♄</u> 36'12	1°04'26
max. Earth dist.	1560 Mar 12 j 22:41	1° <u>♄</u> 18'49	5.95586 AU	minimum elong	1565 Sep 02 j 19:09	19° <u>♄</u> 36'11	1°04'26
morning rise	1560 Mar 25 j 01:29	4° <u>♄</u> 14'06		max. Earth dist.	1565 Sep 01 j 23:30	19° <u>♄</u> 25'33	6.44404 AU
retrograde	1560 Aug 04 j 12:02	24° <u>♄</u> 53'01		morning rise	1565 Sep 15 j 19:18	22° <u>♄</u> 24'39	
min. Earth dist.	1560 Oct 02 j 01:38	19° <u>♄</u> 59'02	3.96635 AU		1565 Oct 22 j 19:36	0° <u>♄</u>	
opposition	1560 Oct 03 j 06:05	19° <u>♄</u> 49'24	-1°36'40	retrograde	1566 Jan 13 j 23:13	9° <u>♄</u> 10'40	
direct	1560 Nov 30 j 02:47	14° <u>♄</u> 54'37		opposition	1566 Mar 15 j 11:03	4° <u>♄</u> 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°06'11
	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°34'06
retrograde	1567 Feb 13 j 13:27	9°♐10'35		direct	1572 Dec 05 j 05:50	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 17:53	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°52'57
	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 11:17	22°♐35'43		opposition	1573 Nov 13 j 13:13	1°♐09'21	-0°56'38
	1567 Dec 20 j 11:09	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°20'07
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°01'04
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°02'34	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°21'00	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°58'22	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 16:35	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°53'23		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°34'54	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 01:35	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° \mathbb{M} 47'13	direct	1583 Nov 14 08:56	18° \mathbb{H} 38'47	
	1577 Oct 05 j 07:25	0° \mathbb{A}		1584 Feb 11 13:55	0° \mathbb{Y}	
retrograde	1578 Jan 18 j 05:05	13° \mathbb{A} 31'44	evening set	1584 Mar 18 21:58	8° \mathbb{Y} 23'07	
opposition	1578 Mar 19 j 18:55	8° \mathbb{A} 38'26 1°37'18				
min. Earth dist.	1578 Mar 20 j 17:31	8° \mathbb{A} 31'10 4.45444 AU	conjunction	1584 Apr 01 06:07	11° \mathbb{Y} 36'10 -1°05'52	
direct	1578 May 21 j 10:36	3° \mathbb{A} 36'05	minimum elong	1584 Apr 01 06:07	11° \mathbb{Y} 36'10 1°05'52	
evening set	1578 Sep 24 j 21:44	21° \mathbb{A} 07'24	max. Earth dist.	1584 Apr 02 20:46	11° \mathbb{Y} 59'31 5.95170 AU	
max. Earth dist.	1578 Oct 05 j 22:28	23° \mathbb{A} 31'12 6.43823 AU	morning rise	1584 Apr 14 17:14	14° \mathbb{Y} 50'48	
				1584 Jun 25 07:47	0° \mathbb{B}	
conjunction	1578 Oct 07 j 17:18	23° \mathbb{A} 54'33 1°04'03	retrograde	1584 Aug 25 01:01	5° \mathbb{B} 28'31	
minimum elong	1578 Oct 07 j 17:19	23° \mathbb{A} 54'33 1°04'03	min. Earth dist.	1584 Oct 22 08:44	0° \mathbb{B} 34'55 3.97569 AU	
morning rise	1578 Oct 20 j 10:27	26° \mathbb{A} 40'35	opposition	1584 Oct 23 16:19	0° \mathbb{B} 24'11 -1°30'40	
	1578 Nov 04 j 23:23	0° \mathbb{M}		1584 Oct 26 15:36	30° \mathbb{R} \mathbb{Y}	
retrograde	1579 Feb 18 j 01:09	13° \mathbb{M} 34'53	direct	1584 Dec 20 13:01	25° \mathbb{Y} 28'44	
opposition	1579 Apr 19 j 20:27	8° \mathbb{M} 42'57 1°22'23		1585 Feb 11 22:59	0° \mathbb{B}	
min. Earth dist.	1579 Apr 21 j 07:03	8° \mathbb{M} 31'55 4.40595 AU	evening set	1585 Apr 25 12:42	15° \mathbb{B} 01'31	
direct	1579 Jun 21 j 13:43	3° \mathbb{M} 42'03		1585 Apr 25 10:07	15° \mathbb{B}	
	1579 Sep 25 j 04:37	15° \mathbb{M}				
evening set	1579 Oct 25 j 12:07	21° \mathbb{M} 26'48	conjunction	1585 May 09 03:58	18° \mathbb{B} 14'47 -0°49'10	
max. Earth dist.	1579 Nov 05 j 01:59	23° \mathbb{M} 47'40 6.35625 AU	minimum elong	1585 May 09 04:01	18° \mathbb{B} 14'49 0°49'09	
			max. Earth dist.	1585 May 11 10:50	18° \mathbb{B} 47'13 6.01861 AU	
conjunction	1579 Nov 07 j 04:30	24° \mathbb{M} 15'49 0°44'52	morning rise	1585 May 22 21:48	21° \mathbb{B} 29'07	
minimum elong	1579 Nov 07 j 04:32	24° \mathbb{M} 15'50 0°44'51		1585 Jun 29 21:59	0° \mathbb{I}	
morning rise	1579 Nov 19 j 19:06	27° \mathbb{M} 04'12	retrograde	1585 Sep 29 22:24	11° \mathbb{I} 22'14	
	1579 Dec 03 j 03:52	0° \mathbb{X}	min. Earth dist.	1585 Nov 27 00:45	6° \mathbb{I} 29'14 4.07870 AU	
retrograde	1580 Mar 21 j 09:24	14° \mathbb{X} 36'02	opposition	1585 Nov 28 12:10	6° \mathbb{I} 17'09 -0°49'18	
opposition	1580 May 21 j 08:11	9° \mathbb{X} 43'51 0°43'46	direct	1586 Jan 25 22:57	1° \mathbb{I} 18'38	
min. Earth dist.	1580 May 22 j 19:57	9° \mathbb{X} 32'26 4.29481 AU	evening set	1586 Jun 01 09:49	20° \mathbb{I} 18'40	
direct	1580 Jul 22 j 08:17	4° \mathbb{X} 45'12				
evening set	1580 Nov 24 j 21:13	22° \mathbb{X} 58'45	conjunction	1586 Jun 15 04:08	23° \mathbb{I} 27'23 -0°14'42	
max. Earth dist.	1580 Dec 05 j 15:57	25° \mathbb{X} 26'52 6.22482 AU	minimum elong	1586 Jun 15 04:09	23° \mathbb{I} 27'24 0°14'42	
			behind sun begin	1586 Jun 15 01:02	23° \mathbb{I} 25'38	
conjunction	1580 Dec 07 j 13:13	25° \mathbb{X} 52'53 0°11'59	behind sun end	1586 Jun 15 07:15	23° \mathbb{I} 29'10	
minimum elong	1580 Dec 07 j 13:13	25° \mathbb{X} 52'53 0°11'59	max. Earth dist.	1586 Jun 17 06:21	23° \mathbb{I} 56'08 6.14835 AU	
behind sun begin	1580 Dec 07 j 07:39	25° \mathbb{X} 49'42	morning rise	1586 Jun 28 22:57	26° \mathbb{I} 36'05	
behind sun end	1580 Dec 07 j 18:47	25° \mathbb{X} 56'04		1586 Jul 14 03:24	0° \mathbb{E}	
morning rise	1580 Dec 20 j 04:55	28° \mathbb{X} 47'08	retrograde	1586 Nov 02 12:14	15° \mathbb{E} 20'29	
	1580 Dec 25 j 12:58	0° \mathbb{Z}	asc. node	1586 Nov 13 12:33	15° \mathbb{E} 08'18	
desc. node	1581 Apr 11 j 03:22	17° \mathbb{Z} 01'07	min. Earth dist.	1586 Dec 31 01:58	10° \mathbb{E} 26'08 4.22078 AU	
retrograde	1581 Apr 25 j 02:17	17° \mathbb{Z} 19'22	opposition	1587 Jan 01 03:34	10° \mathbb{E} 17'29 0°06'55	
opposition	1581 Jun 24 j 20:29	12° \mathbb{Z} 25'24 -0°10'47	direct	1587 Mar 01 19:57	5° \mathbb{E} 16'18	
min. Earth dist.	1581 Jun 25 j 23:42	12° \mathbb{Z} 16'39 4.15112 AU	evening set	1587 Jul 06 14:00	23° \mathbb{E} 37'52	
direct	1581 Aug 24 j 16:10	7° \mathbb{Z} 29'19				
evening set	1581 Dec 27 j 21:12	26° \mathbb{Z} 21'12	conjunction	1587 Jul 20 05:19	26° \mathbb{E} 39'05 0°23'17	
			minimum elong	1587 Jul 20 05:17	26° \mathbb{E} 39'04 0°23'16	
conjunction	1582 Jan 09 j 15:57	29° \mathbb{Z} 22'28 -0°26'17	max. Earth dist.	1587 Jul 21 10:04	26° \mathbb{E} 55'01 6.29140 AU	
minimum elong	1582 Jan 09 j 15:56	29° \mathbb{Z} 22'27 0°26'17	morning rise	1587 Aug 02 19:19	29° \mathbb{E} 39'22	
max. Earth dist.	1582 Jan 08 j 14:25	29° \mathbb{Z} 07'20 6.08167 AU		1587 Aug 04 08:51	0° \mathbb{O}	
	1582 Jan 12 j 07:18	0° \mathbb{A}		1587 Oct 26 00:57	15° \mathbb{O}	
morning rise	1582 Jan 22 j 11:56	2° \mathbb{A} 24'38	retrograde	1587 Dec 03 22:57	17° \mathbb{O} 20'11	
	1582 Mar 22 j 02:49	15° \mathbb{A}		1588 Jan 11 19:16	15° \mathbb{R} \mathbb{O}	
retrograde	1582 May 31 j 23:08	22° \mathbb{A} 06'08	opposition	1588 Feb 01 21:46	12° \mathbb{O} 20'47 0°57'28	
opposition	1582 Jul 31 j 09:44	17° \mathbb{A} 09'00 -1°05'16	min. Earth dist.	1588 Feb 01 11:36	12° \mathbb{O} 24'10 4.35290 AU	
min. Earth dist.	1582 Jul 31 j 16:25	17° \mathbb{A} 06'49 4.02094 AU	direct	1588 Apr 02 21:41	7° \mathbb{O} 18'03	
	1582 Aug 17 j 09:45	15° \mathbb{R} \mathbb{A}		1588 Jun 18 06:52	15° \mathbb{O}	
direct	1582 Sep 28 j 17:04	12° \mathbb{A} 15'01	evening set	1588 Aug 07 19:31	25° \mathbb{O} 08'31	
	1582 Nov 19 04:46	15° \mathbb{A}				
	1583 Feb 03 19:57	0° \mathbb{H}	conjunction	1588 Aug 21 03:57	28° \mathbb{O} 02'16 0°52'38	
evening set	1583 Feb 10 23:48	1° \mathbb{H} 42'35	minimum elong	1588 Aug 21 03:55	28° \mathbb{O} 02'15 0°52'38	
			max. Earth dist.	1588 Aug 21 04:06	28° \mathbb{O} 02'21 6.40262 AU	
conjunction	1583 Feb 24 00:03	4° \mathbb{H} 50'56 -0°56'40		1588 Aug 30 04:44	0° \mathbb{M}	
minimum elong	1583 Feb 24 00:01	4° \mathbb{H} 50'55 0°56'41	morning rise	1588 Sep 03 09:50	0° \mathbb{M} 54'39	
max. Earth dist.	1583 Feb 24 05:40	4° \mathbb{H} 54'20 5.97644 AU	retrograde	1589 Jan 02 07:40	17° \mathbb{M} 53'32	
morning rise	1583 Mar 09 03:00	8° \mathbb{H} 00'50	opposition	1589 Mar 03 13:40	12° \mathbb{M} 57'50 1°29'23	
retrograde	1583 Jul 19 04:50	28° \mathbb{H} 33'36	min. Earth dist.	1589 Mar 03 22:42	12° \mathbb{M} 54'53 4.43662 AU	
opposition	1583 Sep 17 04:24	23° \mathbb{H} 32'27 -1°37'18	direct	1589 May 04 16:45	7° \mathbb{M} 54'49	
min. Earth dist.	1583 Sep 16 12:33	23° \mathbb{H} 37'45 3.95296 AU	evening set	1589 Sep 08 10:43	25° \mathbb{M} 28'13	

max. Earth dist.	1589 Sep 20 08:37	28° 7 02'23	6.45199 AU	morning rise	1595 Mar 14 09:47	13° 1 21'27	
					1595 Jun 03 12:52	0° 7	
conjunction	1589 Sep 21 11:34	28° 7 16'57	1°06'31	retrograde	1595 Jul 24 16:03	3° 7 57'18	
minimum elong	1589 Sep 21 11:34	28° 7 16'57	1°06'31		1595 Sep 14 12:32	30° 8 1	
	1589 Sep 29 10:15	0° 2		opposition	1595 Sep 22 14:04	28° 1 55'38	-1°38'49
morning rise	1589 Oct 04 09:38	1° 2 04'18		min. Earth dist.	1595 Sep 21 19:24	29° 1 01'53	3.95272 AU
retrograde	1590 Feb 01 11:35	17° 2 48'53		direct	1595 Nov 19 16:02	24° 1 01'53	
opposition	1590 Apr 03 01:34	12° 2 55'49	1°36'45		1596 Jan 20 15:02	0° 7	
min. Earth dist.	1590 Apr 04 02:53	12° 2 47'41	4.45014 AU	evening set	1596 Mar 24 06:19	13° 7 45'19	
direct	1590 Jun 04 18:28	7° 2 53'33					
evening set	1590 Oct 09 04:04	25° 2 26'28		conjunction	1596 Apr 06 15:22	16° 7 58'30	-1°04'59
max. Earth dist.	1590 Oct 20 03:26	27° 2 49'53	6.42801 AU	minimum elong	1596 Apr 06 15:23	16° 7 58'31	1°04'59
				max. Earth dist.	1596 Apr 08 08:21	17° 7 23'11	5.95852 AU
conjunction	1590 Oct 21 23:12	28° 2 13'48	1°02'21	morning rise	1596 Apr 20 03:44	20° 7 13'19	
minimum elong	1590 Oct 21 23:14	28° 2 13'49	1°02'21		1596 Jun 02 08:02	0° 8	
	1590 Oct 30 01:30	0° 8		retrograde	1596 Aug 30 05:07	10° 8 46'11	
morning rise	1590 Nov 03 15:41	1° 8 00'01		min. Earth dist.	1596 Oct 27 11:17	5° 8 53'02	3.98877 AU
	1591 Jan 18 13:36	15° 8		opposition	1596 Oct 28 20:56	5° 8 41'35	-1°26'31
retrograde	1591 Mar 04 10:57	17° 8 58'55		direct	1596 Dec 25 18:23	0° 8 45'45	
	1591 Apr 19 02:52	15° 8 1			1597 Apr 08 00:43	15° 8	
opposition	1591 May 04 07:29	13° 8 07'02	1°18'17	evening set	1597 Apr 30 19:12	20° 8 13'52	
min. Earth dist.	1591 May 05 18:33	12° 8 55'52	4.39046 AU				
direct	1591 Jul 05 22:18	8° 8 06'28		conjunction	1597 May 14 11:16	23° 8 26'38	-0°45'02
	1591 Sep 15 22:38	15° 8		minimum elong	1597 May 14 11:19	23° 8 26'40	0°45'02
evening set	1591 Nov 08 20:58	25° 8 55'34		max. Earth dist.	1597 May 16 18:51	23° 8 59'20	6.03671 AU
max. Earth dist.	1591 Nov 19 09:45	28° 8 16'32	6.33668 AU	morning rise	1597 May 28 05:27	26° 8 40'17	
					1597 Jun 11 16:15	0° 8 1	
conjunction	1591 Nov 21 13:03	28° 8 45'15	0°40'54	retrograde	1597 Oct 04 19:48	16° 8 23'40	
minimum elong	1591 Nov 21 13:05	28° 8 45'16	0°40'54	min. Earth dist.	1597 Dec 01 23:14	11° 8 30'16	4.09960 AU
	1591 Nov 27 02:33	0° 8 1		opposition	1597 Dec 03 08:58	11° 8 18'46	-0°41'43
morning rise	1591 Dec 04 03:46	1° 8 1 34'28		direct	1598 Jan 31 00:07	6° 8 19'53	
retrograde	1592 Apr 05 05:27	19° 8 1 14'44		evening set	1598 Jun 06 10:52	25° 8 13'48	
opposition	1592 Jun 05 02:35	14° 8 1 22'25	0°36'44				
min. Earth dist.	1592 Jun 06 14:31	14° 8 1 10'57	4.27229 AU	conjunction	1598 Jun 20 05:05	28° 8 121'31	-0°09'16
direct	1592 Aug 05 23:56	9° 8 1 24'07		minimum elong	1598 Jun 20 05:05	28° 8 121'31	0°09'15
evening set	1592 Dec 09 11:23	27° 8 1 43'53		behind sun begin	1598 Jun 19 22:05	28° 8 117'33	
	1592 Dec 19 08:01	0° 8 1 3		behind sun end	1598 Jun 20 12:04	28° 8 125'29	
max. Earth dist.	1592 Dec 20 08:48	0° 8 1 14'18	6.20142 AU	max. Earth dist.	1598 Jun 22 05:22	28° 8 149'00	6.17031 AU
					1598 Jun 27 10:15	0° 8 1 3	
conjunction	1592 Dec 22 03:47	0° 8 1 39'08	0°06'37	morning rise	1598 Jul 03 23:30	1° 8 29'02	
minimum elong	1592 Dec 22 03:47	0° 8 1 39'07	0°06'37	asc. node	1598 Sep 23 04:49	16° 8 58'36	
behind sun begin	1592 Dec 21 20:17	0° 8 1 34'49		retrograde	1598 Nov 06 23:08	20° 8 03'20	
behind sun end	1592 Dec 22 11:16	0° 8 1 43'26		opposition	1599 Jan 05 16:30	15° 8 00'49	0°14'45
morning rise	1593 Jan 03 19:55	3° 8 33'33		min. Earth dist.	1599 Jan 04 16:07	15° 8 09'02	4.24190 AU
desc. node	1593 Feb 28 02:27	15° 8 12'59		direct	1599 Mar 06 12:27	9° 8 59'24	
retrograde	1593 May 10 04:51	22° 8 17'23		evening set	1599 Jul 11 08:17	28° 8 15'49	
opposition	1593 Jul 09 23:06	17° 8 23'05	-0°19'03		1599 Jul 19 05:27	0° 8 1	
min. Earth dist.	1593 Jul 10 22:59	17° 8 15'23	4.12882 AU				
direct	1593 Sep 08 12:38	12° 8 27'26		conjunction	1599 Jul 24 22:44	1° 8 15'53	0°28'07
	1594 Jan 05 17:23	0° 8 1 3		minimum elong	1599 Jul 24 22:42	1° 8 15'52	0°28'07
evening set	1594 Jan 11 18:55	1° 8 1 25'28		max. Earth dist.	1599 Jul 25 22:31	1° 8 29'02	6.31015 AU
				morning rise	1599 Aug 07 11:44	4° 8 14'59	
conjunction	1594 Jan 24 14:13	4° 8 1 27'49	-0°31'27		1599 Sep 29 17:26	15° 8	
minimum elong	1594 Jan 24 14:11	4° 8 1 27'48	0°31'26	retrograde	1599 Dec 08 07:01	21° 8 48'30	
max. Earth dist.	1594 Jan 23 17:04	4° 8 1 15'15	6.06249 AU	opposition	1600 Feb 06 05:54	16° 8 49'42	1°03'15
morning rise	1594 Feb 06 11:04	7° 8 1 31'13		min. Earth dist.	1600 Feb 05 23:20	16° 8 51'52	4.36797 AU
	1594 Mar 11 06:19	15° 8 1			1600 Feb 20 09:11	15° 8 1	
retrograde	1594 Jun 16 10:05	27° 8 1 22'00		direct	1600 Apr 07 10:55	11° 8 46'53	
opposition	1594 Aug 15 18:42	22° 8 1 24'17	-1°11'45		1600 May 24 19:17	15° 8	
min. Earth dist.	1594 Aug 15 22:01	22° 8 1 23'11	4.00681 AU	evening set	1600 Aug 12 07:36	29° 8 34'14	
direct	1594 Oct 13 22:18	17° 8 1 30'27			1600 Aug 14 07:25	0° 8 1 3	
	1595 Jan 16 23:48	0° 8 1 3					
evening set	1595 Feb 16 04:29	7° 8 1 01'35		conjunction	1600 Aug 25 15:03	2° 8 27'10	0°55'36
				minimum elong	1600 Aug 25 15:01	2° 8 27'09	0°55'35
conjunction	1595 Mar 01 05:50	10° 8 1 10'44	-0°59'31	max. Earth dist.	1600 Aug 25 11:01	2° 8 24'58	6.41278 AU
minimum elong	1595 Mar 01 05:49	10° 8 1 10'43	0°59'31	morning rise	1600 Sep 07 19:48	5° 8 18'42	
max. Earth dist.	1595 Mar 01 17:56	10° 8 1 18'03	5.96870 AU	retrograde	1601 Jan 06 12:19	22° 8 14'22	

opposition	1601 Mar 07 20:05	17° <u>17</u> 19'06	1°31'57
min. Earth dist.	1601 Mar 08 07:13	17° <u>17</u> 15'28	4.44158 AU
direct	1601 May 09 01:08	12° <u>17</u> 16'08	
evening set	1601 Sep 12 19:08	29° <u>17</u> 49'01	
	1601 Sep 13 15:35	0° <u>17</u>	
conjunction	1601 Sep 25 19:07	2° <u>17</u> 37'25	1°07'01
minimum elong	1601 Sep 25 19:06	2° <u>17</u> 37'25	1°07'01
max. Earth dist.	1601 Sep 24 13:49	2° <u>17</u> 21'33	6.45136 AU
morning rise	1601 Oct 08 16:10	5° <u>17</u> 24'26	