

superior conj	1100 May 07 j 12:50	22°♄43'22	-0°23'08	min. Earth dist.	1102 Sep 26 j 09:13	7°♄33'33	0.27479 AU
minimum elong	1100 May 07 j 17:34	22°♄57'56	0°22'55	morning rise	1102 Sep 29 j 20:52	5°♄28'18	
max. Earth dist.	1100 May 08 j 08:43	23°♄44'28	1.73514 AU	direct	1102 Oct 16 j 09:51	0°♄11'21	
	1100 May 13 j 10:57	0°♄		greatest brilliancy	1102 Oct 27 j 13:20	2°♄30'14	-4.9m
asc. node	1100 May 17 j 09:24	4°♄50'10		asc. node	1102 Nov 02 j 04:15	5°♄11'17	
	1100 Jun 06 j 21:13	0°♄			1102 Dec 02 j 14:15	0°♄	
evening rise	1100 Jun 12 j 22:14	7°♄25'14		morning max el	1102 Dec 06 j 03:29	3°♄34'52	46°55'41
	1100 Jul 01 j 07:41	0°♄			1102 Dec 30 j 12:23	0°♄	
	1100 Jul 25 j 18:43	0°♄			1103 Jan 25 j 08:41	0°♄	
	1100 Aug 19 j 07:37	0°♄			1103 Feb 19 j 11:34	0°♄	
desc. node	1100 Sep 05 j 22:37	21°♄26'32		desc. node	1103 Feb 21 j 17:41	2°♄42'50	
	1100 Sep 13 j 00:02	0°♄			1103 Mar 16 j 07:24	0°♄	
	1100 Oct 07 j 22:11	0°♄			1103 Apr 10 j 00:18	0°♄	
	1100 Nov 02 j 06:55	0°♄			1103 May 04 j 15:48	0°♄	
	1100 Nov 28 j 16:48	0°♄			1103 May 29 j 05:54	0°♄	
evening max el	1100 Dec 12 j 16:33	14°♄51'09	47°15'30	morning set	1103 Jun 08 j 13:38	12°♄37'39	
asc. node	1100 Dec 28 j 01:59	29°♄36'30		asc. node	1103 Jun 14 j 21:10	20°♄21'48	
	1100 Dec 28 j 12:40	0°♄			1103 Jun 22 j 17:42	0°♄	
greatest brilliancy	1101 Jan 22 j 01:47	16°♄25'25	-4.9m	max. Earth dist.	1103 Jul 11 j 20:00	23°♄29'56	1.73277 AU
retrograde	1101 Feb 01 j 14:37	18°♄31'39					
evening set	1101 Feb 19 j 12:51	12°♄15'31		superior conj	1103 Jul 14 j 21:41	27°♄17'11	1°03'14
min. Earth dist.	1101 Feb 21 j 23:34	10°♄43'48	0.27974 AU	minimum elong	1103 Jul 14 j 12:59	26°♄50'20	1°02'57
inferior conj	1101 Feb 22 j 14:19	10°♄20'31	8°43'46		1103 Jul 17 j 02:27	0°♄	
minimum elong	1101 Feb 22 j 15:20	10°♄18'56	8°43'45		1103 Aug 10 j 08:21	0°♄	
morning rise	1101 Feb 25 j 18:04	8°♄22'46		evening rise	1103 Aug 20 j 00:05	11°♄58'35	
direct	1101 Mar 15 j 12:44	2°♄20'32			1103 Sep 03 j 12:30	0°♄	
greatest brilliancy	1101 Mar 24 j 14:01	3°♄52'32	-4.8m		1103 Sep 27 j 16:19	0°♄	
desc. node	1101 Apr 18 j 15:19	19°♄19'34		desc. node	1103 Oct 04 j 10:38	8°♄23'38	
	1101 Apr 30 j 15:37	0°♄			1103 Oct 21 j 20:53	0°♄	
morning max el	1101 May 03 j 15:30	2°♄51'02	45°55'39		1103 Nov 15 j 03:21	0°♄	
	1101 May 30 j 00:01	0°♄			1103 Dec 09 j 14:18	0°♄	
	1101 Jun 25 j 21:21	0°♄			1104 Jan 03 j 11:53	0°♄	
	1101 Jul 21 j 16:04	0°♄		asc. node	1104 Jan 25 j 13:44	25°♄40'35	
asc. node	1101 Aug 09 j 18:46	22°♄49'14			1104 Jan 29 j 09:46	0°♄	
	1101 Aug 15 j 17:22	0°♄		evening max el	1104 Feb 22 j 23:24	26°♄08'47	46°12'10
	1101 Sep 09 j 05:44	0°♄			1104 Feb 26 j 22:01	0°♄	
	1101 Oct 03 j 09:09	0°♄		greatest brilliancy	1104 Apr 01 j 18:05	25°♄28'12	-4.8m
	1101 Oct 27 j 07:28	0°♄		retrograde	1104 Apr 12 j 13:26	27°♄37'15	
greatest brilliancy	1101 Oct 28 j 09:08	1°♄20'41	-3.9m	evening set	1104 Apr 28 j 03:23	22°♄54'33	
morning set	1101 Oct 28 j 12:14	1°♄30'26		inferior conj	1104 May 03 j 23:51	19°♄21'33	2°48'37
	1101 Nov 20 j 03:41	0°♄		minimum elong	1104 May 04 j 05:42	19°♄12'19	2°47'00
desc. node	1101 Nov 29 j 08:17	11°♄34'29		min. Earth dist.	1104 May 04 j 02:46	19°♄16'57	0.28870 AU
				morning rise	1104 May 10 j 08:06	15°♄31'42	
superior conj	1101 Dec 08 j 11:06	23°♄03'02	-0°21'34	desc. node	1104 May 16 j 03:08	12°♄49'17	
minimum elong	1101 Dec 08 j 05:25	22°♄45'09	0°21'17	direct	1104 May 25 j 11:54	11°♄04'50	
max. Earth dist.	1101 Dec 09 j 20:51	24°♄49'15	1.71053 AU	greatest brilliancy	1104 Jun 04 j 18:49	12°♄58'26	-4.7m
	1101 Dec 13 j 23:39	0°♄			1104 Jul 01 j 08:24	0°♄	
	1102 Jan 06 j 20:34	0°♄		morning max el	1104 Jul 13 j 05:56	10°♄45'17	45°46'12
evening rise	1102 Jan 19 j 00:22	15°♄14'23			1104 Aug 01 j 06:14	0°♄	
	1102 Jan 30 j 19:42	0°♄			1104 Aug 28 j 07:23	0°♄	
	1102 Feb 23 j 22:50	0°♄		asc. node	1104 Sep 06 j 06:42	10°♄24'20	
	1102 Mar 20 j 08:09	0°♄			1104 Sep 22 j 19:06	0°♄	
asc. node	1102 Mar 22 j 11:40	2°♄37'21			1104 Oct 17 j 10:26	0°♄	
	1102 Apr 14 j 01:58	0°♄			1104 Nov 10 j 14:40	0°♄	
	1102 May 09 j 07:35	0°♄			1104 Dec 04 j 13:49	0°♄	
	1102 Jun 04 j 07:33	0°♄		desc. node	1104 Dec 26 j 20:01	27°♄56'01	
	1102 Jul 01 j 18:44	0°♄			1104 Dec 28 j 11:32	0°♄	
desc. node	1102 Jul 12 j 00:52	10°♄27'24		morning set	1105 Jan 13 j 08:00	19°♄52'56	
evening max el	1102 Jul 17 j 13:28	15°♄50'46	45°47'09		1105 Jan 21 j 09:46	0°♄	
	1102 Aug 02 j 11:31	0°♄			1105 Feb 14 j 09:41	0°♄	
greatest brilliancy	1102 Aug 26 j 12:15	14°♄24'10	-4.8m				
retrograde	1102 Sep 04 j 12:53	15°♄53'19		superior conj	1105 Feb 23 j 05:27	11°♄00'05	-1°25'43
evening set	1102 Sep 21 j 19:11	10°♄19'39		minimum elong	1105 Feb 23 j 06:34	11°♄03'31	1°25'42
inferior conj	1102 Sep 25 j 11:20	8°♄07'04	-7°47'41	max. Earth dist.	1105 Feb 27 j 04:13	15°♄55'01	1.72172 AU
minimum elong	1102 Sep 25 j 20:14	7°♄53'26	7°46'24		1105 Mar 10 j 12:14	0°♄	

evening rise	1105 Apr 03 j 08:33	29° Υ 29'59			1107 Sep 01 j 08:47	0° Ω	
	1105 Apr 03 j 18:17	0° \mathcal{B}		morning max el	1107 Sep 22 j 23:42	19° Ω 07'18	46°19'30
asc. node	1105 Apr 18 j 23:36	18° \mathcal{B} 43'34			1107 Oct 03 j 14:29	0° \mathfrak{M}	
	1105 Apr 28 j 04:19	0° Π		asc. node	1107 Oct 04 j 18:37	1° \mathfrak{M} 14'36	
	1105 May 22 j 18:40	0° \mathfrak{E}			1107 Oct 30 j 11:22	0° $\underline{\mathfrak{A}}$	
	1105 Jun 16 j 14:07	0° Ω			1107 Nov 24 j 16:47	0° \mathfrak{M}	
	1105 Jul 11 j 16:49	0° \mathfrak{M}			1107 Dec 19 j 05:50	0° \mathcal{X}	
	1105 Aug 06 j 07:13	0° $\underline{\mathfrak{A}}$			1108 Jan 12 j 12:27	0° \mathfrak{Z}	
desc. node	1105 Aug 08 j 12:39	2° $\underline{\mathfrak{A}}$ 34'16		desc. node	1108 Jan 24 j 07:52	14° \mathfrak{Z} 38'22	
	1105 Sep 01 j 18:35	0° \mathfrak{M}			1108 Feb 05 j 17:09	0° \approx	
evening max el	1105 Sep 28 j 21:05	28° \mathfrak{M} 37'27	46°58'15		1108 Feb 29 j 22:04	0° \mathcal{H}	
	1105 Sep 30 j 06:34	0° \mathcal{X}			1108 Mar 25 j 04:18	0° Υ	
greatest brilliancy	1105 Nov 08 j 10:33	29° \mathcal{X} 18'55	-4.9m	morning set	1108 Mar 28 j 19:27	4° Υ 28'55	
	1105 Nov 10 j 13:05	0° \mathfrak{Z}			1108 Apr 18 j 12:18	0° \mathcal{B}	
retrograde	1105 Nov 18 j 07:20	1° \mathfrak{Z} 10'00					
	1105 Nov 25 j 19:19	30° \mathcal{R} \mathcal{X}		superior conj	1108 May 05 j 06:26	20° \mathcal{B} 36'30	-0°26'13
asc. node	1105 Nov 29 j 16:05	28° \mathcal{X} 31'27		minimum elong	1108 May 05 j 11:46	20° \mathcal{B} 52'54	0°25'58
evening set	1105 Dec 02 j 14:34	27° \mathcal{X} 04'31		max. Earth dist.	1108 May 06 j 07:18	21° \mathcal{B} 52'56	1.73491 AU
inferior conj	1105 Dec 08 j 19:47	23° \mathcal{X} 26'43	2°21'25		1108 May 12 j 21:50	0° Π	
minimum elong	1105 Dec 08 j 14:33	23° \mathcal{X} 34'42	2°19'45	asc. node	1108 May 16 j 11:24	4° Π 22'51	
min. Earth dist.	1105 Dec 08 j 09:30	23° \mathcal{X} 42'23	0.26419 AU		1108 Jun 06 j 08:08	0° \mathfrak{E}	
morning rise	1105 Dec 14 j 14:46	20° \mathcal{X} 03'24		evening rise	1108 Jun 10 j 17:21	5° \mathfrak{E} 22'56	
direct	1105 Dec 29 j 03:21	15° \mathcal{X} 50'16			1108 Jun 30 j 18:45	0° Ω	
greatest brilliancy	1106 Jan 07 j 20:34	17° \mathcal{X} 38'24	-4.9m		1108 Jul 25 j 06:05	0° \mathfrak{M}	
	1106 Jan 28 j 05:40	0° \mathfrak{Z}			1108 Aug 18 j 19:26	0° $\underline{\mathfrak{A}}$	
morning max el	1106 Feb 17 j 08:10	18° \mathfrak{Z} 17'40	46°39'27	desc. node	1108 Sep 05 j 00:45	20° $\underline{\mathfrak{A}}$ 55'47	
	1106 Feb 28 j 17:41	0° \approx			1108 Sep 12 j 12:32	0° \mathfrak{M}	
desc. node	1106 Mar 21 j 05:41	22° \approx 22'13			1108 Oct 07 j 11:43	0° \mathcal{X}	
	1106 Mar 28 j 00:10	0° \mathcal{H}			1108 Nov 01 j 22:09	0° \mathfrak{Z}	
	1106 Apr 23 j 00:39	0° Υ			1108 Nov 28 j 11:40	0° \approx	
	1106 May 18 j 11:34	0° \mathcal{B}		evening max el	1108 Dec 10 j 07:17	12° \approx 28'48	47°16'29
	1106 Jun 12 j 14:05	0° Π		asc. node	1108 Dec 27 j 04:01	28° \approx 31'44	
	1106 Jul 07 j 09:25	0° \mathfrak{E}			1108 Dec 28 j 21:21	0° \mathcal{H}	
asc. node	1106 Jul 12 j 08:59	6° \mathfrak{E} 04'06		greatest brilliancy	1109 Jan 19 j 17:53	14° \mathcal{H} 06'03	-4.9m
	1106 Jul 31 j 21:41	0° Ω		retrograde	1109 Jan 30 j 05:27	16° \mathcal{H} 11'06	
morning set	1106 Aug 15 j 12:51	18° Ω 04'13		evening set	1109 Feb 17 j 03:23	9° \mathcal{H} 56'23	
	1106 Aug 25 j 03:35	0° \mathfrak{M}		min. Earth dist.	1109 Feb 19 j 13:41	8° \mathcal{H} 25'16	0.27915 AU
	1106 Sep 18 j 04:51	0° $\underline{\mathfrak{A}}$		inferior conj	1109 Feb 20 j 05:04	8° \mathcal{H} 00'59	8°44'58
max. Earth dist.	1106 Sep 18 j 20:19	0° $\underline{\mathfrak{A}}$ 48'21	1.71847 AU	minimum elong	1109 Feb 20 j 05:14	8° \mathcal{H} 00'42	8°44'58
				morning rise	1109 Feb 23 j 07:20	6° \mathcal{H} 05'18	
superior conj	1106 Sep 21 j 18:55	4° $\underline{\mathfrak{A}}$ 29'10	1°16'43	direct	1109 Mar 13 j 02:34	0° \mathcal{H} 02'08	
minimum elong	1106 Sep 22 j 02:42	4° $\underline{\mathfrak{A}}$ 53'30	1°16'34	greatest brilliancy	1109 Mar 22 j 03:25	1° \mathcal{H} 33'25	-4.8m
	1106 Oct 12 j 03:38	0° \mathfrak{M}		desc. node	1109 Apr 17 j 17:19	18° \mathcal{H} 17'12	
evening rise	1106 Oct 31 j 08:51	24° \mathfrak{M} 06'13			1109 Apr 30 j 15:24	0° Υ	
desc. node	1106 Oct 31 j 22:31	24° \mathfrak{M} 49'04		morning max el	1109 May 01 j 05:10	0° Υ 33'05	45°56'51
	1106 Nov 05 j 01:40	0° \mathcal{X}			1109 May 29 j 16:15	0° \mathcal{B}	
	1106 Nov 29 j 00:02	0° \mathfrak{Z}			1109 Jun 25 j 10:57	0° Π	
	1106 Dec 22 j 23:56	0° \approx			1109 Jul 21 j 04:26	0° \mathfrak{E}	
	1107 Jan 16 j 03:33	0° \mathcal{H}		asc. node	1109 Aug 08 j 20:54	22° \mathfrak{E} 20'00	
	1107 Feb 09 j 14:50	0° Υ			1109 Aug 15 j 05:05	0° Ω	
asc. node	1107 Feb 22 j 01:47	15° Υ 01'44			1109 Sep 08 j 17:07	0° \mathfrak{M}	
	1107 Mar 06 j 15:56	0° \mathcal{B}			1109 Oct 02 j 20:23	0° $\underline{\mathfrak{A}}$	
	1107 Apr 01 j 17:36	0° Π		morning set	1109 Oct 26 j 00:40	29° $\underline{\mathfrak{A}}$ 03'31	
	1107 Apr 29 j 22:54	0° \mathfrak{E}			1109 Oct 26 j 18:39	0° \mathfrak{M}	
evening max el	1107 May 04 j 16:57	4° \mathfrak{E} 38'32	45°22'41		1109 Nov 19 j 14:51	0° \mathcal{X}	
	1107 Jun 06 j 10:19	0° Ω		desc. node	1109 Nov 28 j 10:13	11° \mathcal{X} 05'24	
greatest brilliancy	1107 Jun 11 j 12:41	2° Ω 12'42	-4.7m				
desc. node	1107 Jun 13 j 15:04	2° Ω 54'34		superior conj	1109 Dec 05 j 20:42	20° \mathcal{X} 27'03	-0°17'39
retrograde	1107 Jun 22 j 05:21	4° Ω 14'45		minimum elong	1109 Dec 05 j 16:00	20° \mathcal{X} 12'17	0°17'25
	1107 Jul 07 j 02:12	30° \mathcal{R} \mathfrak{E}		max. Earth dist.	1109 Dec 06 j 23:14	21° \mathcal{X} 50'34	1.71049 AU
evening set	1107 Jul 08 j 04:28	29° \mathfrak{E} 23'47			1109 Dec 13 j 10:50	0° \mathfrak{Z}	
inferior conj	1107 Jul 13 j 15:27	26° \mathfrak{E} 06'28	-6°18'16		1110 Jan 06 j 07:46	0° \approx	
minimum elong	1107 Jul 13 j 05:30	26° \mathfrak{E} 21'57	6°16'15	evening rise	1110 Jan 16 j 10:35	12° \approx 40'52	
min. Earth dist.	1107 Jul 13 j 16:49	26° \mathfrak{E} 04'20	0.28885 AU		1110 Jan 30 j 06:58	0° \mathcal{H}	
morning rise	1107 Jul 18 j 06:24	23° \mathfrak{E} 17'33			1110 Feb 23 j 10:12	0° Υ	
direct	1107 Aug 04 j 07:09	17° \mathfrak{E} 50'32			1110 Mar 19 j 19:42	0° \mathcal{B}	
greatest brilliancy	1107 Aug 14 j 22:22	19° \mathfrak{E} 53'39	-4.8m	asc. node	1110 Mar 21 j 13:48	2° \mathcal{B} 08'31	

	1110 Apr 13 j 13:55	0°♄			1112 Nov 10 j 02:11	0°♄	
	1110 May 08 j 20:22	0°♅			1112 Dec 04 j 01:09	0°♁	
	1110 Jun 03 j 22:04	0°♆	desc. node		1112 Dec 25 j 22:06	27°♁27'24	
	1110 Jul 01 j 13:22	0°♇			1112 Dec 27 j 22:44	0°♂	
desc. node	1110 Jul 11 j 02:53	9°♇39'23	morning set		1113 Jan 10 j 17:40	17°♂17'55	
evening max el	1110 Jul 15 j 02:18	13°♇30'47 45°45'04			1113 Jan 20 j 20:51	0°♂	
	1110 Aug 02 j 23:33	0°♁			1113 Feb 13 j 20:39	0°♂	
greatest brilliancy	1110 Aug 24 j 00:53	12°♁03'20 -4.8m					
retrograde	1110 Sep 02 j 01:44	13°♁33'01	superior conj		1113 Feb 20 j 17:50	8°♂35'03 -1°25'49	
evening set	1110 Sep 19 j 11:19	7°♁54'35	minimum elong		1113 Feb 20 j 17:58	8°♂35'27 1°25'50	
inferior conj	1110 Sep 23 j 00:58	5°♁45'49 -7°57'27	max. Earth dist.		1113 Feb 24 j 16:17	13°♂29'13 1.72118 AU	
minimum elong	1110 Sep 23 j 09:21	5°♁33'00 7°56'20			1113 Mar 09 j 23:08	0°♂	
min. Earth dist.	1110 Sep 23 j 23:03	5°♁12'02 0.27550 AU	evening rise		1113 Mar 31 j 23:30	27°♂14'36	
morning rise	1110 Sep 27 j 06:57	3°♁12'14			1113 Apr 03 j 05:10	0°♂	
	1110 Oct 03 j 14:44	30°♇♄	asc. node		1113 Apr 18 j 01:35	18°♂16'02	
direct	1110 Oct 13 j 23:51	27°♄48'43			1113 Apr 27 j 15:19	0°♄	
	1110 Oct 24 j 19:39	0°♁			1113 May 22 j 05:55	0°♅	
greatest brilliancy	1110 Oct 25 j 04:41	0°♁08'51 -4.9m			1113 Jun 16 j 01:50	0°♆	
asc. node	1110 Nov 01 j 06:14	3°♁39'14			1113 Jul 11 j 05:20	0°♇	
	1110 Dec 02 j 13:47	0°♄			1113 Aug 05 j 21:08	0°♁	
morning max el	1110 Dec 03 j 17:37	1°♄10'45 46°55'17	desc. node		1113 Aug 07 j 14:51	2°♁00'03	
	1110 Dec 30 j 05:07	0°♁			1113 Sep 01 j 11:21	0°♄	
	1111 Jan 24 j 22:54	0°♂	evening max el		1113 Sep 26 j 11:44	26°♄17'01 46°56'04	
	1111 Feb 19 j 00:30	0°♂			1113 Sep 30 j 07:07	0°♁	
desc. node	1111 Feb 20 j 19:52	2°♂10'41	greatest brilliancy		1113 Nov 05 j 23:13	26°♁49'47 -4.9m	
	1111 Mar 15 j 19:32	0°♂	retrograde		1113 Nov 15 j 20:05	28°♁40'15	
	1111 Apr 09 j 11:54	0°♂	asc. node		1113 Nov 28 j 18:10	25°♁17'24	
	1111 May 04 j 03:01	0°♂	evening set		1113 Nov 30 j 02:17	24°♁35'57	
	1111 May 28 j 16:50	0°♄	inferior conj		1113 Dec 06 j 07:52	20°♁57'32 1°57'21	
morning set	1111 Jun 06 j 07:58	10°♄33'32	minimum elong		1113 Dec 06 j 03:28	21°♁04'14 1°55'58	
asc. node	1111 Jun 13 j 23:13	19°♄54'54	min. Earth dist.		1113 Dec 05 j 22:43	21°♁11'28 0.26406 AU	
	1111 Jun 22 j 04:29	0°♅	morning rise		1113 Dec 12 j 04:57	17°♁31'39	
max. Earth dist.	1111 Jul 09 j 18:18	21°♅37'30 1.73312 AU	direct		1113 Dec 26 j 16:09	13°♁21'26	
			greatest brilliancy		1114 Jan 05 j 09:44	15°♁10'14 -4.9m	
superior conj	1111 Jul 12 j 16:15	25°♅13'11 1°01'07			1114 Jan 28 j 18:03	0°♂	
minimum elong	1111 Jul 12 j 07:30	24°♅46'12 1°00'49	morning max el		1114 Feb 14 j 21:59	15°♂54'55 46°40'43	
	1111 Jul 16 j 13:13	0°♆			1114 Feb 28 j 12:59	0°♂	
	1111 Aug 09 j 19:13	0°♇	desc. node		1114 Mar 20 j 07:42	21°♂43'34	
evening rise	1111 Aug 17 j 17:22	9°♇49'29			1114 Mar 27 j 15:11	0°♂	
	1111 Sep 02 j 23:34	0°♁			1114 Apr 22 j 13:45	0°♂	
	1111 Sep 27 j 03:40	0°♄			1114 May 17 j 23:36	0°♂	
desc. node	1111 Oct 03 j 12:40	7°♄54'28			1114 Jun 12 j 01:29	0°♄	
	1111 Oct 21 j 08:35	0°♁			1114 Jul 06 j 20:27	0°♅	
	1111 Nov 14 j 15:29	0°♂	asc. node		1114 Jul 11 j 11:07	5°♅37'10	
	1111 Dec 09 j 03:05	0°♂			1114 Jul 31 j 08:30	0°♆	
	1112 Jan 03 j 01:48	0°♂	morning set		1114 Aug 13 j 05:43	15°♆54'36	
asc. node	1112 Jan 24 j 15:54	25°♂02'01			1114 Aug 24 j 14:19	0°♇	
	1112 Jan 29 j 02:07	0°♂	max. Earth dist.		1114 Sep 16 j 07:09	28°♇18'36 1.71894 AU	
evening max el	1112 Feb 20 j 14:33	23°♂53'14 46°14'44			1114 Sep 17 j 15:36	0°♁	
	1112 Feb 26 j 21:57	0°♂					
greatest brilliancy	1112 Mar 30 j 10:19	23°♂17'28 -4.8m	superior conj		1114 Sep 19 j 10:02	2°♁12'41 1°18'09	
retrograde	1112 Apr 10 j 06:22	25°♂27'21	minimum elong		1114 Sep 19 j 17:13	2°♁35'08 1°18'00	
evening set	1112 Apr 25 j 21:41	20°♂41'25			1114 Oct 11 j 14:28	0°♄	
inferior conj	1112 May 01 j 16:08	17°♂11'19 3°07'28	evening rise		1114 Oct 28 j 20:28	21°♄37'47	
minimum elong	1112 May 01 j 22:34	17°♂01'11 3°05'41	desc. node		1114 Oct 31 j 00:30	24°♄20'58	
min. Earth dist.	1112 May 01 j 18:58	17°♂06'52 0.28857 AU			1114 Nov 04 j 12:38	0°♁	
morning rise	1112 May 07 j 23:35	13°♂22'54			1114 Nov 28 j 11:11	0°♂	
desc. node	1112 May 15 j 05:07	10°♂10'20			1114 Dec 22 j 11:17	0°♂	
direct	1112 May 23 j 03:54	8°♂54'41			1115 Jan 15 j 15:11	0°♂	
greatest brilliancy	1112 Jun 02 j 10:18	10°♂48'18 -4.7m			1115 Feb 09 j 02:56	0°♂	
	1112 Jul 01 j 12:35	0°♄	asc. node		1115 Feb 21 j 03:52	14°♂30'33	
morning max el	1112 Jul 10 j 22:52	8°♄37'52 45°45'53			1115 Mar 06 j 05:00	0°♂	
	1112 Jul 31 j 23:10	0°♅			1115 Apr 01 j 08:42	0°♄	
	1112 Aug 27 j 21:11	0°♆			1115 Apr 29 j 19:43	0°♅	
asc. node	1112 Sep 05 j 08:52	9°♆51'55	evening max el		1115 May 02 j 08:41	2°♅27'52 45°23'15	
	1112 Sep 22 j 07:36	0°♇	greatest brilliancy		1115 Jun 09 j 04:10	0°♆02'59 -4.7m	
	1112 Oct 16 j 22:17	0°♁			1115 Jun 09 j 00:55	0°♆	

desc. node	1115 Jun 12 j 17:09	1°Ω08'58	desc. node	1117 Nov 27 j 12:22	10°♄37'54
retrograde	1115 Jun 19 j 20:31	2°Ω05'00			
	1115 Jun 30 j 04:24	30°♋	superior conj	1117 Dec 03 j 06:33	17°♄52'50 -0°13'43
evening set	1115 Jul 05 j 17:43	27°♊17'52	minimum elong	1117 Dec 03 j 02:52	17°♄41'17 0°13'32
inferior conj	1115 Jul 11 j 07:24	23°♊56'32 -6°04'08	behind sun begin	1117 Dec 02 j 11:47	16°♄53'47
minimum elong	1115 Jul 10 j 21:29	24°♊12'00 6°02'04	behind sun end	1117 Dec 03 j 17:58	18°♄28'47
min. Earth dist.	1115 Jul 11 j 08:38	23°♊54'36 0.28899 AU	max. Earth dist.	1117 Dec 04 j 02:50	18°♄56'40 1.71042 AU
morning rise	1115 Jul 16 j 01:04	21°♊03'18		1117 Dec 12 j 21:42	0°♄
direct	1115 Aug 01 j 23:12	15°♊40'27		1118 Jan 05 j 18:37	0°♋
greatest brilliancy	1115 Aug 12 j 14:03	17°♊42'41 -4.8m	evening rise	1118 Jan 13 j 21:08	10°♋09'37
	1115 Sep 01 j 20:54	0°♊		1118 Jan 29 j 17:51	0°♋
morning max el	1115 Sep 20 j 13:44	16°♊49'33 46°18'04		1118 Feb 22 j 21:12	0°♋
	1115 Oct 03 j 08:48	0°♋		1118 Mar 19 j 06:55	0°♋
asc. node	1115 Oct 03 j 20:31	0°♋31'18	asc. node	1118 Mar 20 j 15:44	1°♋40'06
	1115 Oct 30 j 01:51	0°♋		1118 Apr 13 j 01:37	0°♋
	1115 Nov 24 j 05:42	0°♋		1118 May 08 j 08:59	0°♋
	1115 Dec 18 j 17:57	0°♋		1118 Jun 03 j 12:31	0°♋
	1116 Jan 12 j 00:05	0°♋		1118 Jul 01 j 08:18	0°♋
desc. node	1116 Jan 23 j 10:01	14°♋09'33	desc. node	1118 Jul 10 j 05:03	8°♋51'29
	1116 Feb 05 j 04:27	0°♋	evening max el	1118 Jul 12 j 15:38	11°♋12'45 45°43'11
	1116 Feb 29 j 09:06	0°♋		1118 Aug 03 j 15:18	0°♋
	1116 Mar 24 j 15:08	0°♋	greatest brilliancy	1118 Aug 21 j 12:45	9°♋42'29 -4.8m
morning set	1116 Mar 26 j 10:40	2°♋14'26	retrograde	1118 Aug 30 j 15:05	11°♋13'24
	1116 Apr 17 j 23:00	0°♋	evening set	1118 Sep 17 j 03:14	5°♋30'16
			inferior conj	1118 Sep 20 j 14:31	3°♋25'02 -8°06'18
superior conj	1116 May 02 j 23:30	18°♋28'47 -0°29'19	minimum elong	1118 Sep 20 j 22:19	3°♋13'06 8°05'20
minimum elong	1116 May 03 j 05:24	18°♋46'56 0°29'02	min. Earth dist.	1118 Sep 21 j 12:22	2°♋51'39 0.27621 AU
max. Earth dist.	1116 May 04 j 03:50	19°♋55'53 1.73464 AU	morning rise	1118 Sep 24 j 17:02	0°♋56'41
	1116 May 12 j 08:27	0°♋		1118 Sep 26 j 08:59	30°♋
asc. node	1116 May 15 j 13:26	3°♋56'31	direct	1118 Oct 11 j 14:16	25°♋26'41
	1116 Jun 05 j 18:47	0°♋	greatest brilliancy	1118 Oct 22 j 19:28	27°♋47'32 -4.9m
evening rise	1116 Jun 08 j 12:00	3°♋20'09		1118 Oct 27 j 13:14	0°♋
	1116 Jun 30 j 05:33	0°♋	asc. node	1118 Oct 31 j 08:21	2°♋11'10
	1116 Jul 24 j 17:12	0°♋	morning max el	1118 Dec 01 j 08:37	28°♋49'31 46°54'54
	1116 Aug 18 j 07:02	0°♋		1118 Dec 02 j 12:08	0°♋
desc. node	1116 Sep 04 j 02:46	20°♋25'27		1118 Dec 29 j 21:17	0°♋
	1116 Sep 12 j 00:49	0°♋		1119 Jan 24 j 12:42	0°♋
	1116 Oct 07 j 00:59	0°♋		1119 Feb 18 j 13:03	0°♋
	1116 Nov 01 j 13:08	0°♋	desc. node	1119 Feb 19 j 21:52	1°♋39'05
	1116 Nov 28 j 06:30	0°♋		1119 Mar 15 j 07:19	0°♋
evening max el	1116 Dec 07 j 21:01	10°♋05'14 47°17'26		1119 Apr 08 j 23:10	0°♋
asc. node	1116 Dec 26 j 06:07	27°♋26'56		1119 May 03 j 13:56	0°♋
	1116 Dec 29 j 08:18	0°♋		1119 May 28 j 03:33	0°♋
greatest brilliancy	1117 Jan 17 j 09:53	11°♋47'37 -4.9m	morning set	1119 Jun 04 j 02:14	8°♋29'52
retrograde	1117 Jan 27 j 19:57	13°♋51'44	asc. node	1119 Jun 13 j 01:22	19°♋28'52
evening set	1117 Feb 14 j 17:24	7°♋38'53		1119 Jun 21 j 15:06	0°♋
min. Earth dist.	1117 Feb 17 j 03:58	6°♋07'27 0.27862 AU	max. Earth dist.	1119 Jul 07 j 16:30	19°♋45'19 1.73347 AU
inferior conj	1117 Feb 17 j 19:47	5°♋42'29 8°45'09			
minimum elong	1117 Feb 17 j 19:07	5°♋43'33 8°45'09	superior conj	1119 Jul 10 j 10:36	23°♋09'01 0°58'53
morning rise	1117 Feb 20 j 21:03	3°♋48'16	minimum elong	1119 Jul 10 j 01:52	22°♋42'05 0°58'35
	1117 Feb 28 j 02:01	30°♋		1119 Jul 15 j 23:50	0°♋
direct	1117 Mar 10 j 16:05	27°♋44'25		1119 Aug 09 j 05:56	0°♋
greatest brilliancy	1117 Mar 19 j 17:29	29°♋15'50 -4.8m	evening rise	1119 Aug 15 j 10:30	7°♋40'25
	1117 Mar 21 j 19:10	0°♋		1119 Sep 02 j 10:30	0°♋
desc. node	1117 Apr 16 j 19:20	17°♋17'08		1119 Sep 26 j 14:53	0°♋
morning max el	1117 Apr 28 j 18:53	28°♋15'48 45°57'59	desc. node	1119 Oct 02 j 14:38	7°♋25'30
	1117 Apr 30 j 13:53	0°♋		1119 Oct 20 j 20:09	0°♋
	1117 May 29 j 07:58	0°♋		1119 Nov 14 j 03:33	0°♋
	1117 Jun 25 j 00:12	0°♋		1119 Dec 08 j 15:50	0°♋
	1117 Jul 20 j 16:28	0°♋	asc. node	1120 Jan 02 j 15:41	0°♋
asc. node	1117 Aug 07 j 22:58	21°♋51'32		1120 Jan 23 j 17:59	24°♋23'32
	1117 Aug 14 j 16:28	0°♋		1120 Jan 28 j 18:31	0°♋
	1117 Sep 08 j 04:11	0°♋	evening max el	1120 Feb 18 j 06:37	21°♋40'42 46°17'26
	1117 Oct 02 j 07:19	0°♋		1120 Feb 26 j 22:42	0°♋
morning set	1117 Oct 23 j 13:14	26°♋37'53	greatest brilliancy	1120 Mar 28 j 02:36	21°♋08'00 -4.8m
	1117 Oct 26 j 05:33	0°♋	retrograde	1120 Apr 07 j 23:39	23°♋18'35
	1117 Nov 19 j 01:44	0°♋	evening set	1120 Apr 23 j 16:19	18°♋29'32

inferior conj	1120 Apr 29 j 08:37	15°♄02'14	3°25'49	evening rise	1122 Oct 26 j 07:56	19°♍08'15	
minimum elong	1120 Apr 29 j 15:35	14°♄51'16	3°23'56	desc. node	1122 Oct 30 j 02:38	23°♍52'33	
min. Earth dist.	1120 Apr 29 j 11:01	14°♄58'28	0.28844 AU		1122 Nov 03 j 23:51	0°♄	
morning rise	1120 May 05 j 15:05	11°♄15'27			1122 Nov 27 j 22:34	0°♄	
desc. node	1120 May 14 j 07:14	7°♄37'22			1122 Dec 21 j 22:52	0°♄	
direct	1120 May 20 j 20:30	6°♄45'53			1123 Jan 15 j 03:03	0°♄	
greatest brilliancy	1120 May 31 j 01:24	8°♄38'42	-4.7m		1123 Feb 08 j 15:20	0°♄	
	1120 Jul 01 j 14:52	0°♄		asc. node	1123 Feb 20 j 05:48	13°♄58'08	
morning max el	1120 Jul 08 j 16:00	6°♄31'29	45°45'19		1123 Mar 05 j 18:22	0°♄	
	1120 Jul 31 j 15:40	0°♄			1123 Apr 01 j 00:13	0°♄	
	1120 Aug 27 j 10:50	0°♄			1123 Apr 29 j 17:29	0°♄	
asc. node	1120 Sep 04 j 10:48	9°♄19'06		evening max el	1123 Apr 29 j 23:51	0°♄15'21	45°24'02
	1120 Sep 21 j 20:01	0°♄		greatest brilliancy	1123 Jun 06 j 19:56	27°♄53'40	-4.7m
	1120 Oct 16 j 10:05	0°♄		desc. node	1123 Jun 11 j 19:15	29°♄19'47	
	1120 Nov 09 j 13:39	0°♄		retrograde	1123 Jun 17 j 12:02	29°♄56'02	
	1120 Dec 03 j 12:26	0°♄		evening set	1123 Jul 03 j 07:24	25°♄12'10	
desc. node	1120 Dec 25 j 00:10	26°♄58'50		inferior conj	1123 Jul 08 j 23:41	21°♄47'15	-5°49'39
	1120 Dec 27 j 09:53	0°♄		minimum elong	1123 Jul 08 j 13:49	22°♄02'38	5°47'31
morning set	1121 Jan 08 j 03:21	14°♄42'58		min. Earth dist.	1123 Jul 09 j 00:53	21°♄45'23	0.28912 AU
	1121 Jan 20 j 07:55	0°♄		morning rise	1123 Jul 13 j 20:01	18°♄49'54	
	1121 Feb 13 j 07:36	0°♄		direct	1123 Jul 30 j 15:12	13°♄30'54	
				greatest brilliancy	1123 Aug 10 j 06:30	15°♄32'59	-4.8m
superior conj	1121 Feb 18 j 06:11	6°♄09'53	-1°25'47		1123 Sep 02 j 05:54	0°♄	
minimum elong	1121 Feb 18 j 05:21	6°♄07'15	1°25'47	morning max el	1123 Sep 18 j 03:45	14°♄31'26	46°16'25
max. Earth dist.	1121 Feb 22 j 05:54	11°♄08'11	1.72060 AU	asc. node	1123 Oct 02 j 22:39	29°♄48'36	
	1121 Mar 09 j 09:59	0°♄			1123 Oct 03 j 02:54	0°♄	
evening rise	1121 Mar 29 j 14:33	24°♄59'33			1123 Oct 29 j 16:29	0°♄	
	1121 Apr 02 j 16:00	0°♄			1123 Nov 23 j 18:54	0°♄	
asc. node	1121 Apr 17 j 03:41	17°♄49'06			1123 Dec 18 j 06:25	0°♄	
	1121 Apr 27 j 02:14	0°♄			1124 Jan 11 j 12:03	0°♄	
	1121 May 21 j 17:06	0°♄		desc. node	1124 Jan 22 j 12:02	13°♄39'14	
	1121 Jun 15 j 13:32	0°♄			1124 Feb 04 j 16:03	0°♄	
	1121 Jul 10 j 17:55	0°♄			1124 Feb 28 j 20:25	0°♄	
	1121 Aug 05 j 11:17	0°♄		morning set	1124 Mar 24 j 01:39	29°♄58'08	
desc. node	1121 Aug 06 j 16:47	1°♄24'39			1124 Mar 24 j 02:15	0°♄	
	1121 Sep 01 j 04:35	0°♄			1124 Apr 17 j 10:00	0°♄	
evening max el	1121 Sep 24 j 02:14	23°♄55'54	46°53'46				
	1121 Sep 30 j 09:08	0°♄		superior conj	1124 Apr 30 j 16:37	16°♄20'17	-0°32'21
greatest brilliancy	1121 Nov 03 j 12:19	24°♄20'54	-4.9m	minimum elong	1124 Apr 30 j 23:05	16°♄40'08	0°32'04
retrograde	1121 Nov 13 j 08:19	26°♄09'59		max. Earth dist.	1124 May 01 j 22:44	17°♄52'50	1.73434 AU
evening set	1121 Nov 27 j 14:15	22°♄06'49			1124 May 11 j 19:23	0°♄	
asc. node	1121 Nov 27 j 20:16	21°♄58'45		asc. node	1124 May 14 j 15:35	3°♄29'32	
inferior conj	1121 Dec 03 j 19:55	18°♄28'05	1°33'09		1124 Jun 05 j 05:44	0°♄	
minimum elong	1121 Dec 03 j 16:24	18°♄33'27	1°32'01	evening rise	1124 Jun 06 j 06:52	1°♄17'09	
min. Earth dist.	1121 Dec 03 j 12:11	18°♄39'53	0.26393 AU		1124 Jun 29 j 16:38	0°♄	
morning rise	1121 Dec 09 j 18:50	14°♄59'38			1124 Jul 24 j 04:34	0°♄	
direct	1121 Dec 24 j 04:41	10°♄52'17			1124 Aug 17 j 18:54	0°♄	
greatest brilliancy	1122 Jan 02 j 23:12	12°♄41'52	-4.9m	desc. node	1124 Sep 03 j 04:47	19°♄54'15	
	1122 Jan 29 j 03:24	0°♄			1124 Sep 11 j 13:26	0°♄	
morning max el	1122 Feb 12 j 10:51	13°♄29'14	46°41'58		1124 Oct 06 j 14:43	0°♄	
	1122 Feb 28 j 07:52	0°♄			1124 Nov 01 j 04:48	0°♄	
desc. node	1122 Mar 19 j 09:40	21°♄04'51			1124 Nov 28 j 02:29	0°♄	
	1122 Mar 27 j 06:07	0°♄		evening max el	1124 Dec 05 j 10:31	7°♄39'23	47°18'15
	1122 Apr 22 j 02:50	0°♄		asc. node	1124 Dec 25 j 08:10	26°♄18'24	
	1122 May 17 j 11:39	0°♄			1124 Dec 30 j 00:03	0°♄	
	1122 Jun 11 j 12:55	0°♄		greatest brilliancy	1125 Jan 15 j 01:18	9°♄26'12	-4.9m
	1122 Jul 06 j 07:31	0°♄		retrograde	1125 Jan 25 j 10:23	11°♄30'06	
asc. node	1122 Jul 10 j 13:09	5°♄09'47		evening set	1125 Feb 12 j 06:40	5°♄19'32	
	1122 Jul 30 j 19:24	0°♄		min. Earth dist.	1125 Feb 14 j 17:53	3°♄47'24	0.27806 AU
morning set	1122 Aug 10 j 22:42	13°♄45'00		inferior conj	1125 Feb 15 j 10:15	3°♄21'37	8°44'29
	1122 Aug 24 j 01:12	0°♄		minimum elong	1125 Feb 15 j 08:42	3°♄24'04	8°44'27
max. Earth dist.	1122 Sep 13 j 17:41	25°♄47'25	1.71950 AU	morning rise	1125 Feb 18 j 10:55	1°♄28'28	
					1125 Feb 20 j 23:06	30°♄	
superior conj	1122 Sep 17 j 01:14	29°♄55'55	1°19'25	direct	1125 Mar 08 j 05:19	25°♄24'17	
minimum elong	1122 Sep 17 j 07:46	0°♄16'21	1°19'19	greatest brilliancy	1125 Mar 17 j 07:18	26°♄56'10	-4.8m
	1122 Sep 17 j 02:32	0°♄			1125 Mar 24 j 11:19	0°♄	
	1122 Oct 11 j 01:32	0°♄		desc. node	1125 Apr 15 j 21:31	16°♄17'34	

morning max el	1125 Apr 26 j 09:02	25° H 58'13	45°59'18	desc. node	1127 Oct 01 j 16:48	6° M 56'29	
	1125 Apr 30 j 11:59	0° Y			1127 Oct 20 j 07:57	0° X	
	1125 May 28 j 23:50	0° B			1127 Nov 13 j 15:49	0° Z	
	1125 Jun 24 j 13:42	0° II			1127 Dec 08 j 04:49	0° \approx	
	1125 Jul 20 j 04:46	0° G			1128 Jan 02 j 05:57	0° H	
asc. node	1125 Aug 07 j 00:56	21° G 21'51		asc. node	1128 Jan 22 j 19:55	23° H 43'16	
	1125 Aug 14 j 04:07	0° Q			1128 Jan 28 j 11:35	0° Y	
	1125 Sep 07 j 15:31	0° M		evening max el	1128 Feb 15 j 22:54	19° Y 27'15	46°19'50
	1125 Oct 01 j 18:32	0° L			1128 Feb 27 j 01:25	0° B	
morning set	1125 Oct 21 j 02:18	24° L 13'04		greatest brilliancy	1128 Mar 25 j 19:13	18° B 57'01	-4.8m
	1125 Oct 25 j 16:44	0° M		retrograde	1128 Apr 05 j 16:26	21° B 07'23	
	1125 Nov 18 j 12:57	0° X		evening set	1128 Apr 21 j 10:49	16° B 15'27	
desc. node	1125 Nov 26 j 14:27	10° X 09'05		inferior conj	1128 Apr 27 j 00:49	12° B 51'00	3°44'04
				minimum elong	1128 Apr 27 j 08:16	12° B 39'15	3°42'06
superior conj	1125 Nov 30 j 16:23	15° X 17'19	-0°09'45	min. Earth dist.	1128 Apr 27 j 02:49	12° B 47'51	0.28828 AU
minimum elong	1125 Nov 30 j 13:46	15° X 09'05	0°09'37	morning rise	1128 May 03 j 06:04	9° B 05'56	
behind sun begin	1125 Nov 29 j 16:02	14° X 00'42		desc. node	1128 May 13 j 09:17	5° B 06'53	
behind sun end	1125 Dec 01 j 11:29	16° X 17'28		direct	1128 May 18 j 12:57	4° B 35'09	
max. Earth dist.	1125 Dec 01 j 09:00	16° X 09'37	1.71049 AU	greatest brilliancy	1128 May 28 j 15:57	6° B 26'40	-4.7m
	1125 Dec 12 j 08:57	0° Z			1128 Jul 01 j 16:18	0° II	
	1126 Jan 05 j 05:56	0° \approx		morning max el	1128 Jul 06 j 08:05	4° II 21'34	45°44'51
evening rise	1126 Jan 11 j 07:16	7° \approx 35'36			1128 Jul 31 j 08:12	0° G	
	1126 Jan 29 j 05:12	0° H			1128 Aug 27 j 00:37	0° Q	
	1126 Feb 22 j 08:39	0° Y		asc. node	1128 Sep 03 j 12:54	8° Q 46'14	
	1126 Mar 18 j 18:37	0° B			1128 Sep 21 j 08:34	0° M	
asc. node	1126 Mar 19 j 17:52	1° B 10'54			1128 Oct 15 j 22:00	0° L	
	1126 Apr 12 j 13:47	0° II			1128 Nov 09 j 01:13	0° M	
	1126 May 07 j 22:06	0° G			1128 Dec 02 j 23:47	0° X	
	1126 Jun 03 j 03:36	0° Q		desc. node	1128 Dec 24 j 02:11	26° X 29'50	
	1126 Jul 01 j 04:11	0° M			1128 Dec 26 j 21:07	0° Z	
desc. node	1126 Jul 09 j 07:02	8° M 01'26		morning set	1129 Jan 05 j 13:26	12° Z 09'03	
evening max el	1126 Jul 10 j 06:10	8° M 56'53	45°41'30		1129 Jan 19 j 19:02	0° \approx	
	1126 Aug 04 j 12:49	0° L			1129 Feb 12 j 18:39	0° H	
greatest brilliancy	1126 Aug 19 j 00:27	7° L 21'36	-4.8m				
retrograde	1126 Aug 28 j 05:04	8° L 54'01		superior conj	1129 Feb 15 j 18:30	3° H 44'10	-1°25'35
evening set	1126 Sep 14 j 19:15	3° L 06'46		minimum elong	1129 Feb 15 j 16:41	3° H 38'28	1°25'34
inferior conj	1126 Sep 18 j 04:22	1° L 04'36	-8°14'08	max. Earth dist.	1129 Feb 19 j 21:15	8° H 52'02	1.72010 AU
minimum elong	1126 Sep 18 j 11:33	0° L 53'39	8°13'22		1129 Mar 08 j 21:00	0° Y	
min. Earth dist.	1126 Sep 19 j 01:28	0° L 32'22	0.27687 AU	evening rise	1129 Mar 27 j 05:10	22° Y 42'29	
	1126 Sep 19 j 22:45	30° R M			1129 Apr 02 j 03:01	0° B	
morning rise	1126 Sep 22 j 03:32	28° M 41'16		asc. node	1129 Apr 16 j 05:47	17° B 21'29	
direct	1126 Oct 09 j 05:23	23° M 05'23			1129 Apr 26 j 13:24	0° II	
greatest brilliancy	1126 Oct 20 j 09:42	25° M 25'47	-4.9m		1129 May 21 j 04:33	0° G	
	1126 Oct 29 j 05:35	0° L			1129 Jun 15 j 01:29	0° Q	
asc. node	1126 Oct 30 j 10:26	0° L 46'02			1129 Jul 10 j 06:46	0° M	
morning max el	1126 Nov 28 j 23:55	26° L 28'49	46°54'10		1129 Aug 05 j 01:44	0° L	
	1126 Dec 02 j 09:48	0° M		desc. node	1129 Aug 05 j 18:50	0° L 48'54	
	1126 Dec 29 j 13:29	0° X			1129 Aug 31 j 22:21	0° M	
	1127 Jan 24 j 02:45	0° Z		evening max el	1129 Sep 21 j 15:48	21° M 32'13	46°51'27
	1127 Feb 18 j 01:58	0° \approx			1129 Sep 30 j 12:45	0° X	
desc. node	1127 Feb 18 j 23:52	1° \approx 06'11		greatest brilliancy	1129 Nov 01 j 02:06	21° X 52'54	-4.9m
	1127 Mar 14 j 19:31	0° H		retrograde	1129 Nov 10 j 20:07	23° X 40'00	
	1127 Apr 08 j 10:51	0° Y		evening set	1129 Nov 25 j 02:32	19° X 37'37	
	1127 May 03 j 01:15	0° B		asc. node	1129 Nov 26 j 22:15	18° X 37'14	
	1127 May 27 j 14:36	0° II		inferior conj	1129 Dec 01 j 08:06	15° X 59'06	1°08'49
morning set	1127 Jun 01 j 20:16	6° II 24'24		minimum elong	1129 Dec 01 j 05:29	16° X 03'06	1°07'58
asc. node	1127 Jun 12 j 03:20	19° II 01'14		min. Earth dist.	1129 Dec 01 j 02:06	16° X 08'14	0.26379 AU
	1127 Jun 21 j 02:02	0° G		morning rise	1129 Dec 07 j 08:36	12° X 28'14	
max. Earth dist.	1127 Jul 05 j 14:22	17° G 51'06	1.73376 AU	direct	1129 Dec 21 j 16:46	8° X 23'31	
				greatest brilliancy	1129 Dec 31 j 13:14	10° X 14'29	-4.9m
superior conj	1127 Jul 08 j 04:52	21° G 03'38	0°56'35		1130 Jan 29 j 10:01	0° Z	
minimum elong	1127 Jul 07 j 20:12	20° G 36'56	0°56'16	morning max el	1130 Feb 09 j 22:44	11° Z 01'18	46°43'15
	1127 Jul 15 j 10:47	0° Q			1130 Feb 28 j 02:08	0° \approx	
	1127 Aug 08 j 16:59	0° M		desc. node	1130 Mar 18 j 11:53	20° \approx 27'29	
evening rise	1127 Aug 13 j 03:50	5° M 31'01			1130 Mar 26 j 20:46	0° H	
	1127 Sep 01 j 21:43	0° L			1130 Apr 21 j 15:48	0° Y	
	1127 Sep 26 j 02:20	0° M			1130 May 16 j 23:40	0° B	

	1130 Jun 11 j 00:23	0°♂		greatest brilliancy	1133 Jan 12 j 16:07	7°♂04'58	-4.9m
	1130 Jul 05 j 18:38	0°♂		retrograde	1133 Jan 23 j 01:22	9°♂09'29	
asc. node	1130 Jul 09 j 15:10	4°♂42'09		evening set	1133 Feb 09 j 19:34	3°♂01'30	
	1130 Jul 30 j 06:20	0°♂		min. Earth dist.	1133 Feb 12 j 07:28	1°♂28'36	0.27748 AU
morning set	1130 Aug 08 j 15:26	11°♂34'38		inferior conj	1133 Feb 13 j 00:41	1°♂01'33	8°42'57
	1130 Aug 23 j 12:03	0°♂		minimum elong	1133 Feb 12 j 22:18	1°♂05'19	8°42'51
max. Earth dist.	1130 Sep 11 j 06:44	23°♂24'14	1.72006 AU		1133 Feb 14 j 16:00	30°♂	
				morning rise	1133 Feb 16 j 01:13	29°♂08'54	
superior conj	1130 Sep 14 j 16:22	27°♂39'12	1°20'34	direct	1133 Mar 05 j 18:49	23°♂04'59	
minimum elong	1130 Sep 14 j 22:15	27°♂57'34	1°20'29	greatest brilliancy	1133 Mar 14 j 20:40	24°♂37'03	-4.8m
	1130 Sep 16 j 13:26	0°♂			1133 Mar 26 j 02:32	0°♂	
	1130 Oct 10 j 12:34	0°♂		desc. node	1133 Apr 14 j 23:30	15°♂20'06	
evening rise	1130 Oct 23 j 19:35	16°♂39'30		morning max el	1133 Apr 24 j 00:03	23°♂43'53	46°00'42
desc. node	1130 Oct 29 j 04:41	23°♂24'03			1133 Apr 30 j 08:47	0°♂	
	1130 Nov 03 j 11:02	0°♂			1133 May 28 j 15:00	0°♂	
	1130 Nov 27 j 09:54	0°♂			1133 Jun 24 j 02:40	0°♂	
	1130 Dec 21 j 10:20	0°♂			1133 Jul 19 j 16:40	0°♂	
	1131 Jan 14 j 14:47	0°♂		asc. node	1133 Aug 06 j 03:05	20°♂53'42	
	1131 Feb 08 j 03:34	0°♂			1133 Aug 13 j 15:28	0°♂	
asc. node	1131 Feb 19 j 07:58	13°♂26'57			1133 Sep 07 j 02:35	0°♂	
	1131 Mar 05 j 07:38	0°♂			1133 Oct 01 j 05:29	0°♂	
	1131 Mar 31 j 15:48	0°♂		morning set	1133 Oct 18 j 15:17	21°♂48'52	
evening max el	1131 Apr 27 j 14:22	28°♂01'32	45°24'41		1133 Oct 25 j 03:39	0°♂	
	1131 Apr 29 j 16:00	0°♂		desc. node	1133 Nov 17 j 23:51	0°♂	
greatest brilliancy	1131 Jun 04 j 11:13	25°♂43'35	-4.7m		1133 Nov 25 j 16:25	9°♂40'54	
desc. node	1131 Jun 10 j 21:14	27°♂26'12					
retrograde	1131 Jun 15 j 03:45	27°♂46'51		superior conj	1133 Nov 28 j 02:04	12°♂42'21	-0°05'46
evening set	1131 Jun 30 j 20:59	23°♂05'48		minimum elong	1133 Nov 28 j 00:31	12°♂37'29	0°05'41
inferior conj	1131 Jul 06 j 15:48	19°♂37'36	-5°34'33	behind sun begin	1133 Nov 26 j 23:27	11°♂18'33	
minimum elong	1131 Jul 06 j 06:03	19°♂52'48	5°32'22	behind sun end	1133 Nov 29 j 01:35	13°♂56'24	
min. Earth dist.	1131 Jul 06 j 17:00	19°♂35'43	0.28929 AU	max. Earth dist.	1133 Nov 28 j 17:41	13°♂31'33	1.71050 AU
morning rise	1131 Jul 11 j 14:49	16°♂36'20			1133 Dec 11 j 19:52	0°♂	
direct	1131 Jul 28 j 06:52	11°♂20'51			1134 Jan 04 j 16:53	0°♂	
greatest brilliancy	1131 Aug 07 j 23:10	13°♂23'27	-4.8m	evening rise	1134 Jan 08 j 17:24	5°♂02'36	
	1131 Sep 02 j 12:24	0°♂			1134 Jan 28 j 16:13	0°♂	
morning max el	1131 Sep 15 j 18:16	12°♂14'50	46°14'57		1134 Feb 21 j 19:46	0°♂	
asc. node	1131 Oct 02 j 00:48	29°♂06'42			1134 Mar 18 j 05:56	0°♂	
	1131 Oct 02 j 20:29	0°♂		asc. node	1134 Mar 18 j 19:57	0°♂42'41	
	1131 Oct 29 j 06:48	0°♂			1134 Apr 12 j 01:35	0°♂	
	1131 Nov 23 j 07:50	0°♂			1134 May 07 j 10:52	0°♂	
	1131 Dec 17 j 18:37	0°♂			1134 Jun 02 j 18:23	0°♂	
	1132 Jan 10 j 23:46	0°♂			1134 Jul 01 j 00:13	0°♂	
desc. node	1132 Jan 21 j 14:03	13°♂09'40		evening max el	1134 Jul 07 j 21:07	6°♂43'16	45°39'36
	1132 Feb 04 j 03:24	0°♂		desc. node	1134 Jul 08 j 09:05	7°♂11'49	
	1132 Feb 28 j 07:29	0°♂			1134 Aug 05 j 17:44	0°♂	
morning set	1132 Mar 21 j 16:47	27°♂43'02		greatest brilliancy	1134 Aug 16 j 12:08	5°♂01'40	-4.8m
	1132 Mar 23 j 13:06	0°♂		retrograde	1134 Aug 25 j 18:42	6°♂35'06	
	1132 Apr 16 j 20:41	0°♂		evening set	1134 Sep 12 j 10:57	0°♂44'22	
					1134 Sep 13 j 16:43	30°♂	
superior conj	1132 Apr 28 j 09:55	14°♂13'09	-0°35'20	inferior conj	1134 Sep 15 j 18:07	28°♂44'47	-8°21'12
minimum elong	1132 Apr 28 j 16:53	14°♂34'36	0°35'02	minimum elong	1134 Sep 16 j 00:35	28°♂34'52	8°20'34
max. Earth dist.	1132 Apr 29 j 17:58	15°♂51'41	1.73408 AU	min. Earth dist.	1134 Sep 16 j 14:23	28°♂13'45	0.27756 AU
	1132 May 11 j 06:01	0°♂		morning rise	1134 Sep 19 j 13:58	26°♂26'08	
asc. node	1132 May 13 j 17:35	3°♂02'57		direct	1134 Oct 06 j 20:32	20°♂44'46	
evening rise	1132 Jun 04 j 01:50	29°♂15'14		greatest brilliancy	1134 Oct 17 j 23:26	23°♂03'56	-4.9m
	1132 Jun 04 j 16:25	0°♂		asc. node	1134 Oct 29 j 12:24	29°♂23'52	
	1132 Jun 29 j 03:31	0°♂			1134 Oct 30 j 09:23	0°♂	
	1132 Jul 23 j 15:48	0°♂		morning max el	1134 Nov 26 j 14:47	24°♂07'36	46°53'27
	1132 Aug 17 j 06:38	0°♂			1134 Dec 02 j 06:31	0°♂	
desc. node	1132 Sep 02 j 06:56	19°♂23'59			1134 Dec 29 j 05:08	0°♂	
	1132 Sep 11 j 01:54	0°♂			1135 Jan 23 j 16:21	0°♂	
	1132 Oct 06 j 04:20	0°♂			1135 Feb 17 j 14:26	0°♂	
	1132 Oct 31 j 20:24	0°♂		desc. node	1135 Feb 18 j 02:03	0°♂35'11	
	1132 Nov 27 j 22:43	0°♂			1135 Mar 14 j 07:16	0°♂	
evening max el	1132 Dec 03 j 00:30	5°♂15'46	47°19'07		1135 Apr 07 j 22:07	0°♂	
asc. node	1132 Dec 24 j 10:11	25°♂08'55			1135 May 02 j 12:09	0°♂	
	1132 Dec 30 j 20:35	0°♂			1135 May 27 j 01:15	0°♂	

morning set	1135 May 30 j 14:41	4° Π 21'21		minimum elong	1137 Nov 28 j 18:35	13° X 33'13	0°43'39
asc. node	1135 Jun 11 j 05:25	18° Π 35'10		min. Earth dist.	1137 Nov 28 j 16:17	13° X 36'44	0.26379 AU
	1135 Jun 20 j 12:34	0° E		morning rise	1137 Dec 04 j 22:12	9° X 57'37	
max. Earth dist.	1135 Jul 03 j 11:52	15° E 57'07	1.73403 AU	direct	1137 Dec 19 j 04:32	5° X 54'45	
				greatest brilliancy	1137 Dec 29 j 03:53	7° X 47'53	-4.9m
superior conj	1135 Jul 05 j 23:32	19° E 00'50	0°54'14		1138 Jan 29 j 14:37	0° Z	
minimum elong	1135 Jul 05 j 14:58	18° E 34'28	0°53'54	morning max el	1138 Feb 07 j 10:46	8° Z 33'23	46°44'33
	1135 Jul 14 j 21:19	0° Ω			1138 Feb 27 j 19:58	0° \approx	
	1135 Aug 08 j 03:39	0° Π		desc. node	1138 Mar 17 j 13:53	19° \approx 49'48	
evening rise	1135 Aug 10 j 21:31	3° Π 23'58			1138 Mar 26 j 11:12	0° X	
	1135 Sep 01 j 08:37	0° E			1138 Apr 21 j 04:35	0° Y	
	1135 Sep 25 j 13:32	0° Π			1138 May 16 j 11:31	0° B	
desc. node	1135 Sep 30 j 18:50	6° Π 27'49			1138 Jun 10 j 11:40	0° Π	
	1135 Oct 19 j 19:33	0° X			1138 Jul 05 j 05:35	0° E	
	1135 Nov 13 j 03:56	0° Z		asc. node	1138 Jul 08 j 17:18	4° E 15'20	
	1135 Dec 07 j 17:40	0° \approx			1138 Jul 29 j 17:06	0° Ω	
	1136 Jan 01 j 20:04	0° X		morning set	1138 Aug 06 j 08:37	9° Ω 26'10	
asc. node	1136 Jan 21 j 22:05	23° X 04'15			1138 Aug 22 j 22:46	0° Π	
	1136 Jan 28 j 04:38	0° Y		max. Earth dist.	1138 Sep 08 j 22:33	21° Π 10'12	1.72058 AU
evening max el	1136 Feb 13 j 14:43	17° Y 13'33	46°22'23				
	1136 Feb 27 j 05:15	0° B		superior conj	1138 Sep 12 j 08:08	25° Π 24'56	1°21'34
greatest brilliancy	1136 Mar 23 j 12:36	16° B 48'14	-4.8m	minimum elong	1138 Sep 12 j 13:20	25° Π 41'11	1°21'29
retrograde	1136 Apr 03 j 08:57	18° B 57'39			1138 Sep 16 j 00:11	0° E	
evening set	1136 Apr 19 j 05:35	14° B 02'49			1138 Oct 09 j 23:26	0° Π	
inferior conj	1136 Apr 24 j 17:12	10° B 41'21	4°02'04	evening rise	1138 Oct 21 j 07:55	14° Π 13'28	
minimum elong	1136 Apr 25 j 01:06	10° B 28'53	4°00'00	desc. node	1138 Oct 28 j 06:41	22° Π 55'53	
min. Earth dist.	1136 Apr 24 j 18:59	10° B 38'32	0.28808 AU		1138 Nov 02 j 22:05	0° X	
morning rise	1136 Apr 30 j 20:59	6° B 58'04			1138 Nov 26 j 21:07	0° Z	
desc. node	1136 May 12 j 11:18	2° B 42'45			1138 Dec 20 j 21:48	0° \approx	
direct	1136 May 16 j 05:23	2° B 26'03			1139 Jan 14 j 02:35	0° X	
greatest brilliancy	1136 May 26 j 06:47	4° B 16'13	-4.7m		1139 Feb 07 j 15:56	0° Y	
	1136 Jul 01 j 15:57	0° Π		asc. node	1139 Feb 18 j 10:01	12° Y 55'05	
morning max el	1136 Jul 03 j 23:35	2° Π 11'24	45°44'33		1139 Mar 04 j 21:06	0° B	
	1136 Jul 30 j 23:59	0° E			1139 Mar 31 j 07:41	0° Π	
	1136 Aug 26 j 13:52	0° Ω		evening max el	1139 Apr 25 j 05:16	25° Π 48'41	45°25'43
asc. node	1136 Sep 02 j 15:02	8° Ω 14'47			1139 Apr 29 j 15:31	0° E	
	1136 Sep 20 j 20:42	0° Π		greatest brilliancy	1139 Jun 02 j 02:06	23° E 33'22	-4.7m
	1136 Oct 15 j 09:36	0° E		desc. node	1139 Jun 09 j 23:20	25° E 28'48	
	1136 Nov 08 j 12:32	0° Π		retrograde	1139 Jun 12 j 20:04	25° E 38'13	
	1136 Dec 02 j 10:58	0° X		evening set	1139 Jun 28 j 10:52	20° E 59'33	
desc. node	1136 Dec 23 j 04:18	26° X 01'38		inferior conj	1139 Jul 04 j 08:00	17° E 28'20	-5°19'02
	1136 Dec 26 j 08:12	0° Z		minimum elong	1139 Jul 03 j 22:26	17° E 43'13	5°16'49
morning set	1137 Jan 02 j 23:00	9° Z 33'52		min. Earth dist.	1139 Jul 04 j 08:58	17° E 26'49	0.28942 AU
	1137 Jan 19 j 06:00	0° \approx		morning rise	1139 Jul 09 j 09:43	14° E 23'22	
	1137 Feb 12 j 05:30	0° X		direct	1139 Jul 25 j 22:51	9° E 11'08	
				greatest brilliancy	1139 Aug 05 j 15:38	11° E 14'10	-4.8m
superior conj	1137 Feb 13 j 06:23	1° X 17'39	-1°25'12		1139 Sep 02 j 16:45	0° Ω	
minimum elong	1137 Feb 13 j 03:33	1° X 08'46	1°25'11	morning max el	1139 Sep 13 j 09:57	10° Ω 01'34	46°13'37
max. Earth dist.	1137 Feb 17 j 11:35	6° X 33'20	1.71951 AU	asc. node	1139 Oct 01 j 02:42	28° Ω 24'50	
	1137 Mar 08 j 07:46	0° Y			1139 Oct 02 j 13:38	0° Π	
evening rise	1137 Mar 24 j 19:32	20° Y 25'16			1139 Oct 28 j 20:55	0° E	
	1137 Apr 01 j 13:49	0° B			1139 Nov 22 j 20:38	0° Π	
asc. node	1137 Apr 15 j 07:46	16° B 54'16			1139 Dec 17 j 06:43	0° X	
	1137 Apr 26 j 00:19	0° Π			1140 Jan 10 j 11:26	0° Z	
	1137 May 20 j 15:45	0° E		desc. node	1140 Jan 20 j 16:12	12° Z 40'28	
	1137 Jun 14 j 13:12	0° Ω			1140 Feb 03 j 14:46	0° \approx	
	1137 Jul 09 j 19:23	0° Π			1140 Feb 27 j 18:38	0° X	
desc. node	1137 Aug 04 j 21:02	0° E 14'18		morning set	1140 Mar 19 j 07:23	25° X 25'45	
	1137 Aug 04 j 16:01	0° E			1140 Mar 23 j 00:05	0° Y	
	1137 Aug 31 j 16:08	0° Π			1140 Apr 16 j 07:32	0° B	
evening max el	1137 Sep 19 j 04:19	19° Π 07'06	46°48'57				
	1137 Sep 30 j 17:45	0° X		superior conj	1140 Apr 26 j 02:44	12° B 04'02	-0°38'19
greatest brilliancy	1137 Oct 29 j 16:00	19° X 25'45	-4.9m	minimum elong	1140 Apr 26 j 10:12	12° B 27'00	0°37'59
retrograde	1137 Nov 08 j 07:35	21° X 10'50		max. Earth dist.	1140 Apr 27 j 12:56	13° B 49'13	1.73378 AU
evening set	1137 Nov 22 j 14:59	17° X 08'27			1140 May 10 j 16:48	0° Π	
asc. node	1137 Nov 26 j 00:21	15° X 13'23		asc. node	1140 May 12 j 19:38	2° Π 36'08	
inferior conj	1137 Nov 28 j 20:16	13° X 30'39	0°44'12	evening rise	1140 Jun 01 j 20:31	27° Π 12'11	

	1140 Jun 04 j 03:14	0°☿		asc. node	1142 Oct 28 j 14:34	28°☿04'12	
	1140 Jun 28 j 14:31	0°♌			1142 Oct 31 j 05:53	0°♌	
	1140 Jul 23 j 03:08	0°♍		morning max el	1142 Nov 24 j 04:56	21°♌43'58	46°52'36
	1140 Aug 16 j 18:31	0°♍			1142 Dec 02 j 02:48	0°♌	
desc. node	1140 Sep 01 j 08:55	18°♌52'51			1142 Dec 28 j 20:49	0°♌	
	1140 Sep 10 j 14:32	0°♌			1143 Jan 23 j 06:05	0°♌	
	1140 Oct 05 j 18:07	0°♌		desc. node	1143 Feb 17 j 04:01	0°♌02'49	
	1140 Oct 31 j 12:16	0°♌			1143 Feb 17 j 03:06	0°♌	
	1140 Nov 27 j 19:38	0°♌			1143 Mar 13 j 19:15	0°♌	
evening max el	1140 Nov 30 j 15:25	2°♌54'33	47°19'53		1143 Apr 07 j 09:36	0°♌	
asc. node	1140 Dec 23 j 12:19	23°♌57'35			1143 May 01 j 23:19	0°♌	
	1141 Jan 01 j 00:49	0°♌			1143 May 26 j 12:14	0°♌	
greatest brilliancy	1141 Jan 10 j 06:24	4°♌42'53	-4.9m	morning set	1143 May 28 j 08:59	2°♌16'55	
retrograde	1141 Jan 20 j 16:47	6°♌48'25		asc. node	1143 Jun 10 j 07:34	18°♌08'13	
evening set	1141 Feb 07 j 08:02	0°♌43'36			1143 Jun 19 j 23:28	0°♌	
	1141 Feb 08 j 12:27	30°♌		max. Earth dist.	1143 Jul 01 j 07:14	13°♌55'28	1.73429 AU
min. Earth dist.	1141 Feb 09 j 20:45	29°♌09'40	0.27693 AU				
inferior conj	1141 Feb 10 j 15:06	28°♌40'54	8°40'22	superior conj	1143 Jul 03 j 18:03	16°♌56'30	0°51'47
minimum elong	1141 Feb 10 j 11:54	28°♌45'56	8°40'13	minimum elong	1143 Jul 03 j 09:39	16°♌30'38	0°51'28
morning rise	1141 Feb 13 j 15:59	26°♌48'01			1143 Jul 14 j 08:14	0°♌	
direct	1141 Mar 03 j 08:52	20°♌45'11			1143 Aug 07 j 14:41	0°♌	
greatest brilliancy	1141 Mar 12 j 09:33	22°♌16'48	-4.8m	evening rise	1143 Aug 08 j 15:03	1°♌15'28	
	1141 Mar 27 j 06:12	0°♌			1143 Aug 31 j 19:50	0°♌	
desc. node	1141 Apr 14 j 01:32	14°♌23'16			1143 Sep 25 j 01:03	0°♌	
morning max el	1141 Apr 21 j 15:35	21°♌30'00	46°01'55	desc. node	1143 Sep 29 j 20:49	5°♌58'05	
	1141 Apr 30 j 05:12	0°♌			1143 Oct 19 j 07:29	0°♌	
	1141 May 28 j 06:16	0°♌			1143 Nov 12 j 16:24	0°♌	
	1141 Jun 23 j 15:50	0°♌			1143 Dec 07 j 06:55	0°♌	
	1141 Jul 19 j 04:45	0°♌			1144 Jan 01 j 10:42	0°♌	
asc. node	1141 Aug 05 j 05:09	20°♌24'39		asc. node	1144 Jan 21 j 00:10	22°♌23'30	
	1141 Aug 13 j 02:59	0°♌			1144 Jan 27 j 22:25	0°♌	
	1141 Sep 06 j 13:49	0°♌		evening max el	1144 Feb 11 j 05:40	14°♌56'24	46°24'54
	1141 Sep 30 j 16:37	0°♌			1144 Feb 27 j 11:30	0°♌	
morning set	1141 Oct 16 j 04:33	19°♌25'02		greatest brilliancy	1144 Mar 21 j 06:23	14°♌38'46	-4.8m
	1141 Oct 24 j 14:45	0°♌		retrograde	1144 Apr 01 j 01:06	16°♌46'52	
	1141 Nov 17 j 10:58	0°♌		evening set	1144 Apr 17 j 00:23	11°♌48'57	
desc. node	1141 Nov 24 j 18:33	9°♌12'36		inferior conj	1144 Apr 22 j 09:34	8°♌30'45	4°19'36
				minimum elong	1144 Apr 22 j 17:53	8°♌17'37	4°17'28
superior conj	1141 Nov 25 j 12:06	10°♌07'50	-0°01'46	min. Earth dist.	1144 Apr 22 j 11:24	8°♌27'51	0.28789 AU
minimum elong	1141 Nov 25 j 11:38	10°♌06'21	0°01'45	morning rise	1144 Apr 28 j 11:42	4°♌49'22	
behind sun begin	1141 Nov 24 j 09:20	8°♌43'35		desc. node	1144 May 11 j 13:24	0°♌22'14	
behind sun end	1141 Nov 26 j 13:56	11°♌29'08		direct	1144 May 13 j 21:14	0°♌15'53	
max. Earth dist.	1141 Nov 26 j 02:11	10°♌52'10	1.71051 AU	greatest brilliancy	1144 May 23 j 22:00	2°♌05'07	-4.7m
	1141 Dec 11 j 07:00	0°♌		morning max el	1144 Jul 01 j 14:28	29°♌58'35	45°44'14
	1142 Jan 04 j 04:02	0°♌			1144 Jul 01 j 15:04	0°♌	
evening rise	1142 Jan 06 j 03:46	2°♌29'41			1144 Jul 30 j 15:59	0°♌	
	1142 Jan 28 j 03:25	0°♌			1144 Aug 26 j 03:27	0°♌	
	1142 Feb 21 j 07:06	0°♌		asc. node	1144 Sep 01 j 16:59	7°♌41'39	
asc. node	1142 Mar 17 j 21:55	0°♌13'20			1144 Sep 20 j 09:11	0°♌	
	1142 Mar 17 j 17:32	0°♌			1144 Oct 14 j 21:30	0°♌	
	1142 Apr 11 j 13:43	0°♌			1144 Nov 08 j 00:08	0°♌	
	1142 May 07 j 00:04	0°♌			1144 Dec 01 j 22:24	0°♌	
	1142 Jun 02 j 09:47	0°♌		desc. node	1144 Dec 22 j 06:22	25°♌32'26	
	1142 Jun 30 j 21:20	0°♌			1144 Dec 25 j 19:32	0°♌	
evening max el	1142 Jul 05 j 12:08	4°♌28'57	45°37'52	morning set	1144 Dec 31 j 08:27	6°♌57'22	
desc. node	1142 Jul 07 j 11:15	6°♌20'34			1145 Jan 18 j 17:16	0°♌	
	1142 Aug 07 j 12:05	0°♌					
greatest brilliancy	1142 Aug 14 j 00:41	2°♌42'24	-4.8m	superior conj	1145 Feb 10 j 18:12	28°♌49'51	-1°24'40
retrograde	1142 Aug 23 j 08:07	4°♌16'05		minimum elong	1145 Feb 10 j 14:22	28°♌37'54	1°24'38
	1142 Sep 07 j 05:55	30°♌			1145 Feb 11 j 16:40	0°♌	
evening set	1142 Sep 10 j 02:41	28°♌22'31		max. Earth dist.	1145 Feb 14 j 22:58	4°♌04'18	1.71893 AU
inferior conj	1142 Sep 13 j 08:07	26°♌25'08	-8°27'22		1145 Mar 07 j 18:52	0°♌	
minimum elong	1142 Sep 13 j 13:52	26°♌16'18	8°26'52	evening rise	1145 Mar 22 j 09:45	18°♌06'35	
min. Earth dist.	1142 Sep 14 j 03:46	25°♌54'59	0.27820 AU		1145 Apr 01 j 00:56	0°♌	
morning rise	1142 Sep 17 j 00:50	24°♌10'47		asc. node	1145 Apr 14 j 09:54	16°♌26'37	
direct	1142 Oct 04 j 11:36	18°♌24'25			1145 Apr 25 j 11:33	0°♌	
greatest brilliancy	1142 Oct 15 j 13:28	20°♌42'14	-4.9m		1145 May 20 j 03:16	0°♌	

	1145 Jun 14 j 01:17	0°♈			1148 Feb 03 j 02:15	0°♊	
	1145 Jul 09 j 08:27	0°♍			1148 Feb 27 j 05:52	0°♋	
desc. node	1145 Aug 03 j 22:57	29°♍37'29	morning set		1148 Mar 16 j 21:44	23°♋07'23	
	1145 Aug 04 j 06:53	0°♌			1148 Mar 22 j 11:08	0°♌	
	1145 Aug 31 j 10:50	0°♍			1148 Apr 15 j 18:28	0°♌	
evening max el	1145 Sep 16 j 16:23	16°♍39'50 46°46'35					
	1145 Oct 01 j 01:27	0°♊	superior conj		1148 Apr 23 j 19:24	9°♌54'06 -0°41'14	
greatest brilliancy	1145 Oct 27 j 05:43	16°♊57'17 -4.9m	minimum elong		1148 Apr 24 j 03:20	10°♌18'31 0°40'54	
retrograde	1145 Nov 05 j 19:16	18°♊40'53	max. Earth dist.		1148 Apr 25 j 09:03	11°♌49'57 1.73348 AU	
evening set	1145 Nov 20 j 03:34	14°♊37'45			1148 May 10 j 03:41	0°♍	
asc. node	1145 Nov 25 j 02:27	11°♊46'44	asc. node		1148 May 11 j 21:47	2°♍09'21	
inferior conj	1145 Nov 26 j 08:24	11°♊01'11 0°19'31	evening rise		1148 May 30 j 15:13	25°♍08'50	
minimum elong	1145 Nov 26 j 07:39	11°♊02'19 0°19'16			1148 Jun 03 j 14:09	0°♎	
min. Earth dist.	1145 Nov 26 j 06:19	11°♊04'21 0.26382 AU			1148 Jun 28 j 01:36	0°♈	
morning rise	1145 Dec 02 j 11:36	7°♊26'29			1148 Jul 22 j 14:33	0°♍	
direct	1145 Dec 16 j 16:08	3°♊24'48			1148 Aug 16 j 06:27	0°♌	
greatest brilliancy	1145 Dec 26 j 18:28	5°♊20'27 -4.9m	desc. node		1148 Aug 31 j 10:58	18°♌21'44	
	1146 Jan 29 j 17:48	0°♎			1148 Sep 10 j 03:16	0°♍	
morning max el	1146 Feb 04 j 23:39	6°♎06'43 46°45'46			1148 Oct 05 j 08:07	0°♊	
	1146 Feb 27 j 13:41	0°♊			1148 Oct 31 j 04:33	0°♎	
desc. node	1146 Mar 16 j 15:53	19°♊11'39			1148 Nov 27 j 17:34	0°♊	
	1146 Mar 26 j 01:45	0°♋	evening max el		1148 Nov 28 j 07:09	0°♊34'44 47°20'26	
	1146 Apr 20 j 17:35	0°♌	asc. node		1148 Dec 22 j 14:21	22°♊43'04	
	1146 May 15 j 23:36	0°♌			1149 Jan 02 j 18:21	0°♋	
	1146 Jun 09 j 23:11	0°♍	greatest brilliancy		1149 Jan 07 j 20:33	2°♋19'32 -4.9m	
	1146 Jul 04 j 16:46	0°♎	retrograde		1149 Jan 18 j 08:00	4°♋25'42	
asc. node	1146 Jul 07 j 19:21	3°♎47'34			1149 Feb 02 j 02:41	30°♋	
	1146 Jul 29 j 04:07	0°♈	evening set		1149 Feb 04 j 19:51	28°♋24'58	
morning set	1146 Aug 04 j 01:46	7°♈16'55	min. Earth dist.		1149 Feb 07 j 09:39	26°♋49'28 0.27632 AU	
	1146 Aug 22 j 09:44	0°♍	inferior conj		1149 Feb 08 j 05:12	26°♋18'51 8°36'53	
max. Earth dist.	1146 Sep 06 j 14:58	18°♍57'11 1.72114 AU	minimum elong		1149 Feb 08 j 01:11	26°♋25'09 8°36'39	
			morning rise		1149 Feb 11 j 06:47	24°♋25'09	
superior conj	1146 Sep 09 j 23:45	23°♍09'17 1°22'26	direct		1149 Feb 28 j 22:55	18°♋24'21	
minimum elong	1146 Sep 10 j 04:13	23°♍23'16 1°22'22	greatest brilliancy		1149 Mar 09 j 21:45	19°♋54'55 -4.8m	
	1146 Sep 15 j 11:15	0°♌			1149 Mar 28 j 02:38	0°♋	
	1146 Oct 09 j 10:38	0°♍	desc. node		1149 Apr 13 j 03:44	13°♋27'49	
evening rise	1146 Oct 18 j 20:00	11°♍45'48	morning max el		1149 Apr 19 j 06:38	19°♋14'47 46°03'10	
desc. node	1146 Oct 27 j 08:51	22°♍27'16			1149 Apr 30 j 01:00	0°♌	
	1146 Nov 02 j 09:25	0°♊			1149 May 27 j 21:16	0°♌	
	1146 Nov 26 j 08:37	0°♎			1149 Jun 23 j 04:51	0°♍	
	1146 Dec 20 j 09:30	0°♊			1149 Jul 18 j 16:44	0°♎	
	1147 Jan 13 j 14:38	0°♋	asc. node		1149 Aug 04 j 07:08	19°♎55'39	
	1147 Feb 07 j 04:35	0°♌			1149 Aug 12 j 14:24	0°♈	
asc. node	1147 Feb 17 j 11:59	12°♌22'09			1149 Sep 06 j 00:58	0°♍	
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	1147 Mar 31 j 00:05	0°♍	morning set		1149 Oct 13 j 18:05	17°♌02'28	
evening max el	1147 Apr 22 j 21:06	23°♍37'32 45°26'51			1149 Oct 24 j 01:45	0°♍	
	1147 Apr 29 j 16:27	0°♎			1149 Nov 16 j 21:59	0°♊	
greatest brilliancy	1147 May 30 j 16:44	21°♎22'26 -4.7m					
desc. node	1147 Jun 09 j 01:26	23°♎26'33	superior conj		1149 Nov 22 j 22:13	7°♊33'51 0°02'16	
retrograde	1147 Jun 10 j 12:43	23°♎29'03	minimum elong		1149 Nov 22 j 22:49	7°♊35'45 0°02'13	
evening set	1147 Jun 26 j 00:56	18°♎52'45	behind sun begin		1149 Nov 21 j 20:40	6°♊13'25	
inferior conj	1147 Jul 02 j 00:10	15°♎18'35 -5°03'01	behind sun end		1149 Nov 24 j 00:59	8°♊58'05	
minimum elong	1147 Jul 01 j 14:51	15°♎33'05 5°00'48	max. Earth dist.		1149 Nov 23 j 09:00	8°♊07'46 1.71058 AU	
min. Earth dist.	1147 Jul 02 j 00:37	15°♎17'53 0.28953 AU	desc. node		1149 Nov 23 j 20:37	8°♊44'22	
morning rise	1147 Jul 07 j 04:32	12°♎10'05			1149 Dec 10 j 18:04	0°♎	
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greatest brilliancy	1147 Aug 03 j 07:24	9°♎03'55 -4.7m			1150 Jan 03 j 15:10	0°♊	
	1147 Sep 02 j 19:35	0°♈			1150 Jan 27 j 14:36	0°♋	
morning max el	1147 Sep 11 j 02:19	7°♈49'47 46°12'05			1150 Feb 20 j 18:23	0°♌	
asc. node	1147 Sep 30 j 04:54	27°♈43'42	asc. node		1150 Mar 17 j 00:03	29°♌44'44	
	1147 Oct 02 j 06:37	0°♍			1150 Mar 17 j 05:04	0°♌	
	1147 Oct 28 j 11:06	0°♌			1150 Apr 11 j 01:48	0°♍	
	1147 Nov 22 j 09:37	0°♍			1150 May 06 j 13:14	0°♎	
	1147 Dec 16 j 19:00	0°♊			1150 Jun 02 j 01:15	0°♈	
	1148 Jan 09 j 23:16	0°♎			1150 Jun 30 j 19:03	0°♍	
desc. node	1148 Jan 19 j 18:13	12°♎10'24	evening max el		1150 Jul 03 j 02:38	2°♍13'51 45°36'10	




































































































































desc. node	1150 Jul 06 j 13:13	5° \mathbb{M} 28'19			1152 Dec 25 j 06:29	0° \mathcal{Z}	
	1150 Aug 10 j 08:57	0° $\underline{\mathbf{a}}$		morning set	1152 Dec 28 j 18:19	4° \mathcal{Z} 23'19	
greatest brilliancy	1150 Aug 11 j 13:52	0° $\underline{\mathbf{a}}$ 24'39	-4.8m		1153 Jan 18 j 04:06	0° \approx	
retrograde	1150 Aug 20 j 21:11	1° $\underline{\mathbf{a}}$ 58'12					
	1150 Aug 30 j 21:58	30° \mathbb{R} \mathbb{M}		superior conj	1153 Feb 08 j 06:11	26° \approx 23'49	-1°23'57
evening set	1150 Sep 07 j 18:11	26° \mathbb{M} 02'20		minimum elong	1153 Feb 08 j 01:24	26° \approx 08'52	1°23'55
inferior conj	1150 Sep 10 j 22:15	24° \mathbb{M} 06'46	-8°32'31		1153 Feb 11 j 03:25	0° \mathbb{H}	
minimum elong	1150 Sep 11 j 03:14	23° \mathbb{M} 59'07	8°32'10	max. Earth dist.	1153 Feb 12 j 08:22	1° \mathbb{H} 30'20	1.71840 AU
min. Earth dist.	1150 Sep 11 j 17:34	23° \mathbb{M} 37'04	0.27880 AU		1153 Mar 07 j 05:36	0° \mathbb{Y}	
morning rise	1150 Sep 14 j 12:03	21° \mathbb{M} 56'22		evening rise	1153 Mar 19 j 23:55	15° \mathbb{Y} 48'47	
direct	1150 Oct 02 j 02:12	16° \mathbb{M} 05'15			1153 Mar 31 j 11:42	0° \mathcal{B}	
greatest brilliancy	1150 Oct 13 j 04:01	18° \mathbb{M} 22'17	-4.9m	asc. node	1153 Apr 13 j 11:58	15° \mathcal{B} 59'49	
asc. node	1150 Oct 27 j 16:38	26° \mathbb{M} 47'44			1153 Apr 24 j 22:27	0° \mathbb{I}	
	1150 Oct 31 j 20:42	0° $\underline{\mathbf{a}}$			1153 May 19 j 14:28	0° \mathcal{G}	
morning max el	1150 Nov 21 j 18:13	19° $\underline{\mathbf{a}}$ 19'02	46°51'45		1153 Jun 13 j 13:02	0° \mathcal{Q}	
	1150 Dec 01 j 22:10	0° \mathbb{M}			1153 Jul 08 j 21:13	0° \mathbb{M}	
	1150 Dec 28 j 12:01	0° \mathcal{X}		desc. node	1153 Aug 03 j 01:02	29° \mathbb{M} 01'58	
	1151 Jan 22 j 19:30	0° \mathcal{Z}			1153 Aug 03 j 21:32	0° $\underline{\mathbf{a}}$	
desc. node	1151 Feb 16 j 06:03	29° \mathcal{Z} 31'13			1153 Aug 31 j 05:36	0° \mathbb{M}	
	1151 Feb 16 j 15:32	0° \approx		evening max el	1153 Sep 14 j 04:52	14° \mathbb{M} 14'59	46°44'12
	1151 Mar 13 j 07:02	0° \mathbb{H}			1153 Oct 01 j 11:19	0° \mathcal{X}	
	1151 Apr 06 j 20:54	0° \mathbb{Y}		greatest brilliancy	1153 Oct 24 j 18:57	14° \mathcal{X} 29'30	-4.9m
	1151 May 01 j 10:16	0° \mathcal{B}		retrograde	1153 Nov 03 j 07:22	16° \mathcal{X} 12'16	
	1151 May 25 j 22:58	0° \mathbb{I}		evening set	1153 Nov 17 j 16:23	12° \mathcal{X} 07'52	
morning set	1151 May 26 j 03:02	0° \mathbb{I} 12'27		inferior conj	1153 Nov 23 j 20:29	8° \mathcal{X} 32'48	-0°05'11
asc. node	1151 Jun 09 j 09:32	17° \mathbb{I} 41'34		minimum elong	1153 Nov 23 j 20:41	8° \mathcal{X} 32'30	0°05'08
	1151 Jun 19 j 10:06	0° \mathcal{G}		transit middle	1153 Nov 23 j 20:41	8° \mathcal{X} 32'30	0°05'08
max. Earth dist.	1151 Jun 29 j 02:23	11° \mathcal{G} 54'03	1.73456 AU	transit begin	1153 Nov 23 j 16:48	8° \mathcal{X} 38'24	
				transit end	1153 Nov 24 j 00:34	8° \mathcal{X} 26'36	
superior conj	1151 Jul 01 j 12:30	14° \mathcal{G} 52'51	0°49'16	min. Earth dist.	1153 Nov 23 j 20:08	8° \mathcal{X} 33'21	0.26388 AU
minimum elong	1151 Jul 01 j 04:18	14° \mathcal{G} 27'37	0°48'57	asc. node	1153 Nov 24 j 04:27	8° \mathcal{X} 20'43	
	1151 Jul 13 j 18:54	0° \mathcal{Q}		morning rise	1153 Nov 30 j 00:47	4° \mathcal{X} 56'58	
evening rise	1151 Aug 06 j 08:46	29° \mathcal{Q} 08'22		direct	1153 Dec 14 j 04:15	0° \mathcal{X} 55'53	
	1151 Aug 07 j 01:27	0° \mathbb{M}		greatest brilliancy	1153 Dec 24 j 08:43	2° \mathcal{X} 53'52	-4.9m
	1151 Aug 31 j 06:48	0° $\underline{\mathbf{a}}$			1154 Jan 29 j 18:59	0° \mathcal{Z}	
	1151 Sep 24 j 12:19	0° \mathbb{M}		morning max el	1154 Feb 02 j 13:31	3° \mathcal{Z} 43'54	46°47'07
desc. node	1151 Sep 28 j 22:59	5° \mathbb{M} 29'47			1154 Feb 27 j 06:30	0° \approx	
	1151 Oct 18 j 19:08	0° \mathcal{X}		desc. node	1154 Mar 15 j 18:05	18° \approx 35'46	
	1151 Nov 12 j 04:34	0° \mathcal{Z}			1154 Mar 25 j 15:40	0° \mathbb{H}	
	1151 Dec 06 j 19:53	0° \approx			1154 Apr 20 j 06:03	0° \mathbb{Y}	
	1152 Jan 01 j 01:06	0° \mathbb{H}			1154 May 15 j 11:15	0° \mathcal{B}	
asc. node	1152 Jan 20 j 02:06	21° \mathbb{H} 42'49			1154 Jun 09 j 10:19	0° \mathbb{I}	
	1152 Jan 27 j 16:17	0° \mathbb{Y}			1154 Jul 04 j 03:35	0° \mathcal{G}	
evening max el	1152 Feb 08 j 19:51	12° \mathbb{Y} 38'00	46°27'18	asc. node	1154 Jul 06 j 21:22	3° \mathcal{G} 20'46	
	1152 Feb 27 j 19:52	0° \mathcal{B}			1154 Jul 28 j 14:45	0° \mathcal{Q}	
greatest brilliancy	1152 Mar 19 j 00:05	12° \mathcal{B} 29'26	-4.8m	morning set	1154 Aug 01 j 18:58	5° \mathcal{Q} 09'00	
retrograde	1152 Mar 29 j 17:05	14° \mathcal{B} 36'28			1154 Aug 21 j 20:21	0° \mathbb{M}	
evening set	1152 Apr 14 j 19:09	9° \mathcal{B} 35'06		max. Earth dist.	1154 Sep 04 j 07:44	16° \mathbb{M} 46'34	1.72167 AU
inferior conj	1152 Apr 20 j 01:52	6° \mathcal{B} 20'32	4°36'47				
minimum elong	1152 Apr 20 j 10:31	6° \mathcal{B} 06'50	4°34'38	superior conj	1154 Sep 07 j 15:26	20° \mathbb{M} 55'10	1°23'09
min. Earth dist.	1152 Apr 20 j 03:57	6° \mathcal{B} 17'14	0.28770 AU	minimum elong	1154 Sep 07 j 19:11	21° \mathbb{M} 06'51	1°23'07
morning rise	1152 Apr 26 j 02:09	2° \mathcal{B} 41'21			1154 Sep 14 j 21:56	0° $\underline{\mathbf{a}}$	
	1152 May 01 j 17:10	30° \mathbb{R} \mathbb{Y}			1154 Oct 08 j 21:28	0° \mathbb{M}	
desc. node	1152 May 10 j 15:27	28° \mathbb{Y} 06'49		evening rise	1154 Oct 16 j 08:18	9° \mathbb{M} 19'56	
direct	1152 May 11 j 12:31	28° \mathbb{Y} 05'55		desc. node	1154 Oct 26 j 10:51	21° \mathbb{M} 59'17	
greatest brilliancy	1152 May 21 j 13:40	29° \mathbb{Y} 55'02	-4.7m		1154 Nov 01 j 20:25	0° \mathcal{X}	
	1152 May 21 j 19:20	0° \mathcal{B}			1154 Nov 25 j 19:48	0° \mathcal{Z}	
morning max el	1152 Jun 29 j 05:23	27° \mathcal{B} 46'38	45°44'05		1154 Dec 19 j 20:54	0° \approx	
	1152 Jul 01 j 12:54	0° \mathbb{I}			1155 Jan 13 j 02:21	0° \mathbb{H}	
	1152 Jul 30 j 07:20	0° \mathcal{G}			1155 Feb 06 j 16:52	0° \mathbb{Y}	
	1152 Aug 25 j 16:33	0° \mathcal{Q}		asc. node	1155 Feb 16 j 14:10	11° \mathbb{Y} 51'01	
asc. node	1152 Aug 31 j 19:06	7° \mathcal{Q} 10'19			1155 Mar 04 j 00:20	0° \mathcal{B}	
	1152 Sep 19 j 21:13	0° \mathbb{M}			1155 Mar 30 j 16:17	0° \mathbb{I}	
	1152 Oct 14 j 09:01	0° $\underline{\mathbf{a}}$		evening max el	1155 Apr 20 j 13:46	21° \mathbb{I} 29'40	45°27'54
	1152 Nov 07 j 11:22	0° \mathbb{M}			1155 Apr 29 j 18:09	0° \mathcal{G}	
	1152 Dec 01 j 09:28	0° \mathcal{X}		greatest brilliancy	1155 May 28 j 07:41	19° \mathcal{G} 13'08	-4.7m
desc. node	1152 Dec 21 j 08:21	25° \mathcal{X} 04'17		retrograde	1155 Jun 08 j 05:26	21° \mathcal{G} 20'59	

desc. node	1155 Jun 08 j 03:24	21°☿20'59		minimum elong	1157 Nov 20 j 10:05	5°♂05'40	0°06'08
evening set	1155 Jun 23 j 15:20	16°☿47'07		behind sun begin	1157 Nov 19 j 09:30	3°♂48'16	
inferior conj	1155 Jun 29 j 16:27	13°☿10'01	-4°46'40	behind sun end	1157 Nov 21 j 10:41	6°♂23'03	
minimum elong	1155 Jun 29 j 07:25	13°☿24'05	4°44'27	max. Earth dist.	1157 Nov 20 j 13:15	5°♂15'36	1.71065 AU
min. Earth dist.	1155 Jun 29 j 16:20	13°☿10'12	0.28962 AU	desc. node	1157 Nov 22 j 22:37	8°♂16'05	
morning rise	1155 Jul 04 j 23:22	9°☿58'00			1157 Dec 10 j 05:05	0°♂	
direct	1155 Jul 21 j 08:13	4°☿52'34		evening rise	1157 Dec 31 j 23:34	27°♂21'02	
greatest brilliancy	1155 Jul 31 j 22:51	6°☿54'22	-4.7m		1158 Jan 03 j 02:14	0°♂	
	1155 Sep 02 j 20:36	0°♂			1158 Jan 27 j 01:46	0°♂	
morning max el	1155 Sep 08 j 18:41	5°♂39'13	46°10'31		1158 Feb 20 j 05:41	0°♂	
asc. node	1155 Sep 29 j 06:59	27°♂03'41		asc. node	1158 Mar 16 j 02:07	29°♂15'48	
	1155 Oct 01 j 22:57	0°♂			1158 Mar 16 j 16:38	0°♂	
	1155 Oct 28 j 00:50	0°♂			1158 Apr 10 j 13:56	0°♂	
	1155 Nov 21 j 22:10	0°♂			1158 May 06 j 02:29	0°☿	
	1155 Dec 16 j 06:56	0°♂			1158 Jun 01 j 16:54	0°♂	
	1156 Jan 09 j 10:47	0°♂		evening max el	1158 Jun 30 j 16:15	29°♂56'50	45°34'29
desc. node	1156 Jan 18 j 20:13	11°♂41'07			1158 Jun 30 j 17:34	0°♂	
	1156 Feb 02 j 13:29	0°♂		desc. node	1158 Jul 05 j 15:17	4°♂35'27	
	1156 Feb 26 j 16:51	0°♂		greatest brilliancy	1158 Aug 09 j 03:05	28°♂07'11	-4.8m
morning set	1156 Mar 14 j 12:14	20°♂50'11		retrograde	1158 Aug 18 j 10:07	29°♂40'49	
	1156 Mar 21 j 21:54	0°♂		evening set	1158 Sep 05 j 09:22	23°♂42'53	
	1156 Apr 15 j 05:06	0°♂		inferior conj	1158 Sep 08 j 12:30	21°♂48'42	-8°36'45
				minimum elong	1158 Sep 08 j 16:39	21°♂42'18	8°36'31
superior conj	1156 Apr 21 j 12:13	7°♂45'26	-0°44'06	min. Earth dist.	1158 Sep 09 j 07:40	21°♂19'11	0.27945 AU
minimum elong	1156 Apr 21 j 20:34	8°♂11'09	0°43'45	morning rise	1158 Sep 11 j 23:40	19°♂41'57	
max. Earth dist.	1156 Apr 23 j 07:19	9°♂58'08	1.73315 AU	direct	1158 Sep 29 j 16:37	13°♂46'03	
	1156 May 09 j 14:15	0°♂		greatest brilliancy	1158 Oct 10 j 19:25	16°♂03'18	-4.9m
asc. node	1156 May 10 j 23:45	1°♂42'54		asc. node	1158 Oct 26 j 18:35	25°♂32'57	
evening rise	1156 May 28 j 10:01	23°♂06'43			1158 Nov 01 j 07:56	0°♂	
	1156 Jun 03 j 00:48	0°☿		morning max el	1158 Nov 19 j 07:26	16°♂53'29	46°50'53
	1156 Jun 27 j 12:27	0°♂			1158 Dec 01 j 17:11	0°♂	
	1156 Jul 22 j 01:47	0°♂			1158 Dec 28 j 03:10	0°♂	
	1156 Aug 15 j 18:14	0°♂			1159 Jan 22 j 08:57	0°♂	
desc. node	1156 Aug 30 j 13:06	17°♂51'21		desc. node	1159 Feb 15 j 08:14	28°♂59'52	
	1156 Sep 09 j 15:52	0°♂			1159 Feb 16 j 04:01	0°♂	
	1156 Oct 04 j 22:01	0°♂			1159 Mar 12 j 18:53	0°♂	
	1156 Oct 30 j 20:54	0°♂			1159 Apr 06 j 08:19	0°♂	
evening max el	1156 Nov 25 j 22:50	28°♂15'16	47°20'44		1159 Apr 30 j 21:21	0°♂	
	1156 Nov 27 j 16:08	0°♂		morning set	1159 May 23 j 21:06	28°♂07'31	
asc. node	1156 Dec 21 j 16:22	21°♂26'34			1159 May 25 j 09:51	0°♂	
greatest brilliancy	1157 Jan 05 j 11:05	29°♂56'50	-4.9m	asc. node	1159 Jun 08 j 11:36	17°♂14'48	
	1157 Jan 05 j 14:25	0°♂			1159 Jun 18 j 20:53	0°☿	
retrograde	1157 Jan 15 j 22:50	2°♂02'44		max. Earth dist.	1159 Jun 26 j 22:22	9°☿54'46	1.73479 AU
	1157 Jan 25 j 20:12	30°♂					
evening set	1157 Feb 02 j 07:18	26°♂06'54		superior conj	1159 Jun 29 j 07:08	12°☿49'26	0°46'43
min. Earth dist.	1157 Feb 04 j 22:47	24°♂28'47	0.27568 AU	minimum elong	1159 Jun 28 j 23:10	12°☿24'55	0°46'23
inferior conj	1157 Feb 05 j 19:11	23°♂56'48	8°32'34		1159 Jul 13 j 05:41	0°♂	
minimum elong	1157 Feb 05 j 14:22	24°♂04'21	8°32'13	evening rise	1159 Aug 04 j 02:50	27°♂02'08	
morning rise	1157 Feb 08 j 21:45	22°♂01'36			1159 Aug 06 j 12:21	0°♂	
direct	1157 Feb 26 j 12:47	16°♂03'37			1159 Aug 30 j 17:56	0°♂	
greatest brilliancy	1157 Mar 07 j 10:12	17°♂33'09	-4.8m		1159 Sep 23 j 23:48	0°♂	
	1157 Mar 28 j 17:42	0°♂		desc. node	1159 Sep 28 j 01:00	5°♂00'21	
desc. node	1157 Apr 12 j 05:40	12°♂33'18			1159 Oct 18 j 07:03	0°♂	
morning max el	1157 Apr 16 j 20:55	16°♂58'02	46°04'35		1159 Nov 11 j 17:04	0°♂	
	1157 Apr 29 j 20:02	0°♂			1159 Dec 06 j 09:12	0°♂	
	1157 May 27 j 11:52	0°♂			1159 Dec 31 j 15:59	0°♂	
	1157 Jun 22 j 17:34	0°♂		asc. node	1160 Jan 19 j 04:17	21°♂01'29	
	1157 Jul 18 j 04:30	0°☿			1160 Jan 27 j 10:53	0°♂	
asc. node	1157 Aug 03 j 09:16	19°☿27'32		evening max el	1160 Feb 06 j 09:41	10°♂17'46	46°29'52
	1157 Aug 12 j 01:41	0°♂			1160 Feb 28 j 07:44	0°♂	
	1157 Sep 05 j 12:01	0°♂		greatest brilliancy	1160 Mar 16 j 17:06	10°♂18'13	-4.8m
	1157 Sep 29 j 14:36	0°♂		retrograde	1160 Mar 27 j 09:10	12°♂25'05	
morning set	1157 Oct 11 j 07:38	14°♂40'06		evening set	1160 Apr 12 j 13:51	7°♂19'44	
	1157 Oct 23 j 12:41	0°♂		inferior conj	1160 Apr 17 j 18:04	4°♂09'04	4°53'43
	1157 Nov 16 j 08:57	0°♂		minimum elong	1160 Apr 18 j 03:01	3°♂54'54	4°51'32
				min. Earth dist.	1160 Apr 17 j 20:17	4°♂05'33	0.28752 AU
superior conj	1157 Nov 20 j 08:27	5°♂00'30	0°06'13	morning rise	1160 Apr 23 j 16:23	0°♂32'34	

	1160 Apr 24 j 16:05	30° RY	evening rise	1162 Oct 13 j 20:58	6° M 54'16	
direct	1160 May 09 j 03:39	25° Y 54'30	desc. node	1162 Oct 25 j 12:52	21° M 30'19	
desc. node	1160 May 09 j 17:29	25° Y 54'53		1162 Nov 01 j 07:44	0° X	
greatest brilliancy	1160 May 19 j 05:23	27° Y 43'58 -4.7m		1162 Nov 25 j 07:19	0° Z	
	1160 May 24 j 14:21	0° B		1162 Dec 19 j 08:40	0° \approx	
morning max el	1160 Jun 26 j 21:06	25° B 35'45 45°44'07		1163 Jan 12 j 14:30	0° H	
	1160 Jul 01 j 10:16	0° II		1163 Feb 06 j 05:41	0° Y	
	1160 Jul 29 j 22:45	0° G	asc. node	1163 Feb 15 j 16:10	11° Y 17'44	
	1160 Aug 25 j 05:47	0° O		1163 Mar 03 j 14:26	0° B	
asc. node	1160 Aug 30 j 21:12	6° O 38'15		1163 Mar 30 j 09:22	0° II	
	1160 Sep 19 j 09:27	0° M	evening max el	1163 Apr 18 j 06:32	19° II 20'23 45°29'05	
	1160 Oct 13 j 20:45	0° L		1163 Apr 29 j 22:09	0° G	
	1160 Nov 06 j 22:52	0° M	greatest brilliancy	1163 May 25 j 23:04	17° G 02'45 -4.7m	
	1160 Nov 30 j 20:52	0° X	retrograde	1163 Jun 05 j 21:43	19° G 11'02	
desc. node	1160 Dec 20 j 10:29	24° X 35'27	desc. node	1163 Jun 07 j 05:30	19° G 08'59	
	1160 Dec 24 j 17:48	0° Z	evening set	1163 Jun 21 j 05:48	14° G 39'40	
morning set	1160 Dec 26 j 03:47	1° Z 46'46	inferior conj	1163 Jun 27 j 08:35	10° G 59'45 -4°29'54	
	1161 Jan 17 j 15:19	0° \approx	minimum elong	1163 Jun 26 j 23:54	11° G 13'18 4°27'42	
			min. Earth dist.	1163 Jun 27 j 08:03	11° G 00'36 0.28968 AU	
superior conj	1161 Feb 05 j 17:31	23° \approx 54'28 -1°23'05	morning rise	1163 Jul 02 j 17:57	7° G 44'07	
minimum elong	1161 Feb 05 j 11:46	23° \approx 36'30 1°23'00	direct	1163 Jul 19 j 01:02	2° G 42'22	
max. Earth dist.	1161 Feb 09 j 15:26	28° \approx 47'49 1.71786 AU	greatest brilliancy	1163 Jul 29 j 13:58	4° G 42'48 -4.7m	
	1161 Feb 10 j 14:33	0° H		1163 Sep 02 j 20:59	0° O	
	1161 Mar 06 j 16:42	0° Y	morning max el	1163 Sep 06 j 10:15	3° O 25'25 46°09'03	
evening rise	1161 Mar 17 j 13:36	13° Y 28'21	asc. node	1163 Sep 28 j 08:54	26° O 22'24	
	1161 Mar 30 j 22:50	0° B		1163 Oct 01 j 15:26	0° M	
asc. node	1161 Apr 12 j 13:56	15° B 31'34		1163 Oct 27 j 14:48	0° L	
	1161 Apr 24 j 09:45	0° II		1163 Nov 21 j 10:59	0° M	
	1161 May 19 j 02:05	0° G		1163 Dec 15 j 19:06	0° X	
	1161 Jun 13 j 01:14	0° O		1164 Jan 08 j 22:33	0° Z	
	1161 Jul 08 j 10:27	0° M	desc. node	1164 Jan 17 j 22:23	11° Z 11'36	
desc. node	1161 Aug 02 j 03:12	28° M 25'25		1164 Feb 02 j 00:58	0° \approx	
	1161 Aug 03 j 12:44	0° L		1164 Feb 26 j 04:08	0° H	
	1161 Aug 31 j 01:13	0° M	morning set	1164 Mar 12 j 02:22	18° H 30'45	
evening max el	1161 Sep 11 j 18:13	11° M 51'49 46°41'51		1164 Mar 21 j 09:02	0° Y	
	1161 Oct 02 j 00:54	0° X		1164 Apr 14 j 16:06	0° B	
greatest brilliancy	1161 Oct 22 j 07:24	12° X 00'15 -4.9m				
retrograde	1161 Oct 31 j 19:47	13° X 42'50	superior conj	1164 Apr 19 j 04:33	5° B 34'05 -0°46'57	
evening set	1161 Nov 15 j 05:25	9° X 36'53	minimum elong	1164 Apr 19 j 13:17	6° B 00'56 0°46'34	
inferior conj	1161 Nov 21 j 08:32	6° X 03'20 -0°29'55	max. Earth dist.	1164 Apr 21 j 05:02	8° B 03'23 1.73280 AU	
minimum elong	1161 Nov 21 j 09:41	6° X 01'35 0°29'32		1164 May 09 j 01:12	0° II	
min. Earth dist.	1161 Nov 21 j 09:31	6° X 01'50 0.26402 AU	asc. node	1164 May 10 j 01:50	1° II 15'37	
asc. node	1161 Nov 23 j 06:31	4° X 53'52	evening rise	1164 May 26 j 04:19	21° II 01'52	
morning rise	1161 Nov 27 j 13:45	2° X 26'44		1164 Jun 02 j 11:50	0° G	
	1161 Dec 03 j 00:30	30° RM		1164 Jun 26 j 23:42	0° O	
direct	1161 Dec 11 j 17:04	28° M 25'59		1164 Jul 21 j 13:25	0° M	
	1161 Dec 20 j 17:35	0° X		1164 Aug 15 j 06:26	0° L	
greatest brilliancy	1161 Dec 21 j 22:31	0° X 25'32 -4.9m	desc. node	1164 Aug 29 j 15:04	17° L 19'13	
	1162 Jan 29 j 19:32	0° Z		1164 Sep 09 j 04:55	0° M	
morning max el	1162 Jan 31 j 04:03	1° Z 21'14 46°48'10		1164 Oct 04 j 12:25	0° X	
	1162 Feb 26 j 23:33	0° \approx		1164 Oct 30 j 13:49	0° Z	
desc. node	1162 Mar 14 j 20:03	17° \approx 57'59	evening max el	1164 Nov 23 j 13:58	25° Z 53'48 47°21'05	
	1162 Mar 25 j 05:57	0° H		1164 Nov 27 j 15:53	0° \approx	
	1162 Apr 19 j 18:56	0° Y	asc. node	1164 Dec 20 j 18:30	20° \approx 07'39	
	1162 May 14 j 23:18	0° B	greatest brilliancy	1165 Jan 03 j 02:15	27° \approx 34'45 -4.9m	
	1162 Jun 08 j 21:50	0° II	retrograde	1165 Jan 13 j 13:20	29° \approx 39'44	
	1162 Jul 03 j 14:47	0° G	evening set	1165 Jan 30 j 18:42	23° \approx 49'22	
asc. node	1162 Jul 05 j 23:29	2° G 53'06	min. Earth dist.	1165 Feb 02 j 12:28	22° \approx 07'46 0.27505 AU	
	1162 Jul 28 j 01:48	0° O	inferior conj	1165 Feb 03 j 09:23	21° \approx 34'57 8°27'21	
morning set	1162 Jul 30 j 12:14	3° O 00'08	minimum elong	1165 Feb 03 j 03:50	21° \approx 43'40 8°26'52	
	1162 Aug 21 j 07:21	0° M	morning rise	1165 Feb 06 j 13:16	19° \approx 37'39	
max. Earth dist.	1162 Sep 01 j 22:47	14° M 29'28 1.72214 AU	direct	1165 Feb 24 j 02:28	13° \approx 43'02	
			greatest brilliancy	1165 Mar 04 j 23:29	15° \approx 12'01 -4.8m	
superior conj	1162 Sep 05 j 07:27	18° M 40'56 1°23'44		1165 Mar 29 j 05:06	0° H	
minimum elong	1162 Sep 05 j 10:27	18° M 50'19 1°23'43	desc. node	1165 Apr 11 j 07:45	11° H 39'38	
	1162 Sep 14 j 09:00	0° L	morning max el	1165 Apr 14 j 10:26	14° H 38'35 46°05'46	
	1162 Oct 08 j 08:38	0° M		1165 Apr 29 j 14:49	0° Y	

	1165 May 27 j 02:36	0°♄			1167 Dec 31 j 06:57	0°♄	
	1165 Jun 22 j 06:31	0°♄		asc. node	1168 Jan 18 j 06:20	20°♄19'37	
	1165 Jul 17 j 16:32	0°♄			1168 Jan 27 j 05:51	0°♄	
asc. node	1165 Aug 02 j 11:20	18°♄58'26		evening max el	1168 Feb 04 j 00:17	7°♄59'54	46°32'38
	1165 Aug 11 j 13:13	0°♄			1168 Feb 28 j 23:13	0°♄	
	1165 Sep 04 j 23:17	0°♄		greatest brilliancy	1168 Mar 14 j 09:42	8°♄07'28	-4.8m
	1165 Sep 29 j 01:46	0°♄		retrograde	1168 Mar 25 j 01:57	10°♄15'00	
morning set	1165 Oct 08 j 21:08	12°♄16'56		evening set	1168 Apr 10 j 08:49	5°♄05'28	
	1165 Oct 22 j 23:50	0°♄		inferior conj	1168 Apr 15 j 10:27	1°♄58'47	5°10'06
	1165 Nov 15 j 20:07	0°♄		minimum elong	1168 Apr 15 j 19:41	1°♄44'13	5°07'54
				min. Earth dist.	1168 Apr 15 j 12:26	1°♄55'38	0.28732 AU
superior conj	1165 Nov 17 j 18:52	2°♄27'05	0°10'08		1168 Apr 18 j 14:31	30°♄	
minimum elong	1165 Nov 17 j 21:31	2°♄35'27	0°10'01	morning rise	1168 Apr 21 j 06:43	28°♄25'24	
behind sun begin	1165 Nov 17 j 00:33	1°♄29'28		direct	1168 May 06 j 19:20	23°♄44'23	
behind sun end	1165 Nov 18 j 18:29	3°♄41'26		desc. node	1168 May 08 j 19:35	23°♄49'03	
max. Earth dist.	1165 Nov 17 j 15:09	2°♄15'24	1.71073 AU	greatest brilliancy	1168 May 16 j 20:54	25°♄34'00	-4.7m
desc. node	1165 Nov 22 j 00:46	7°♄47'42			1168 May 26 j 06:28	0°♄	
	1165 Dec 09 j 16:16	0°♄		morning max el	1168 Jun 24 j 13:44	23°♄27'58	45°44'01
evening rise	1165 Dec 29 j 09:39	24°♄46'55			1168 Jul 01 j 06:35	0°♄	
	1166 Jan 02 j 13:27	0°♄			1168 Jul 29 j 13:44	0°♄	
	1166 Jan 26 j 13:00	0°♄			1168 Aug 24 j 18:47	0°♄	
	1166 Feb 19 j 17:02	0°♄		asc. node	1168 Aug 29 j 23:08	6°♄06'20	
asc. node	1166 Mar 15 j 04:05	28°♄46'21			1168 Sep 18 j 21:30	0°♄	
	1166 Mar 16 j 04:18	0°♄			1168 Oct 13 j 08:19	0°♄	
	1166 Apr 10 j 02:12	0°♄			1168 Nov 06 j 10:12	0°♄	
	1166 May 05 j 15:59	0°♄			1168 Nov 30 j 08:04	0°♄	
	1166 Jun 01 j 09:01	0°♄		desc. node	1168 Dec 19 j 12:32	24°♄06'58	
evening max el	1166 Jun 28 j 05:26	27°♄38'22	45°32'56	morning set	1168 Dec 23 j 13:14	29°♄10'48	
	1166 Jun 30 j 17:20	0°♄			1168 Dec 24 j 04:54	0°♄	
desc. node	1166 Jul 04 j 17:27	3°♄41'06			1169 Jan 17 j 02:19	0°♄	
greatest brilliancy	1166 Aug 06 j 15:59	25°♄49'00	-4.8m				
retrograde	1166 Aug 15 j 23:24	27°♄23'27		superior conj	1169 Feb 03 j 04:42	21°♄25'05	-1°22'01
evening set	1166 Sep 03 j 00:12	21°♄23'38		minimum elong	1169 Feb 02 j 22:02	21°♄04'12	1°21'55
inferior conj	1166 Sep 06 j 02:46	19°♄30'25	-8°40'06	max. Earth dist.	1169 Feb 06 j 23:33	26°♄09'03	1.71735 AU
minimum elong	1166 Sep 06 j 06:05	19°♄25'18	8°39'56		1169 Feb 10 j 01:29	0°♄	
min. Earth dist.	1166 Sep 06 j 21:41	19°♄01'17	0.28011 AU		1169 Mar 06 j 03:35	0°♄	
morning rise	1166 Sep 09 j 11:41	17°♄27'01		evening rise	1169 Mar 15 j 03:21	11°♄08'44	
direct	1166 Sep 27 j 07:03	11°♄26'33			1169 Mar 30 j 09:44	0°♄	
greatest brilliancy	1166 Oct 08 j 11:06	13°♄44'39	-4.9m	asc. node	1169 Apr 11 j 16:05	15°♄04'41	
asc. node	1166 Oct 25 j 20:46	24°♄20'23			1169 Apr 23 j 20:45	0°♄	
	1166 Nov 01 j 16:21	0°♄			1169 May 18 j 13:23	0°♄	
morning max el	1166 Nov 16 j 21:11	14°♄29'06	46°50'02		1169 Jun 12 j 13:08	0°♄	
	1166 Dec 01 j 11:48	0°♄			1169 Jul 07 j 23:29	0°♄	
	1166 Dec 27 j 18:12	0°♄		desc. node	1169 Aug 01 j 05:07	27°♄48'36	
	1167 Jan 21 j 22:21	0°♄			1169 Aug 03 j 03:53	0°♄	
desc. node	1167 Feb 14 j 10:11	28°♄27'56			1169 Aug 30 j 21:13	0°♄	
	1167 Feb 15 j 16:26	0°♄		evening max el	1169 Sep 09 j 08:26	9°♄31'30	46°39'20
	1167 Mar 12 j 06:38	0°♄			1169 Oct 02 j 18:41	0°♄	
	1167 Apr 05 j 19:36	0°♄		greatest brilliancy	1169 Oct 19 j 19:41	9°♄31'36	-4.9m
	1167 Apr 30 j 08:20	0°♄		retrograde	1169 Oct 29 j 08:21	11°♄13'53	
morning set	1167 May 21 j 15:18	26°♄03'08		evening set	1169 Nov 12 j 18:43	7°♄06'30	
	1167 May 24 j 20:39	0°♄		inferior conj	1169 Nov 18 j 20:33	3°♄34'28	-0°54'37
asc. node	1167 Jun 07 j 13:44	16°♄48'22		minimum elong	1169 Nov 18 j 22:39	3°♄31'18	0°53'56
	1167 Jun 18 j 07:38	0°♄		min. Earth dist.	1169 Nov 18 j 22:43	3°♄31'11	0.26417 AU
max. Earth dist.	1167 Jun 24 j 19:17	7°♄58'28	1.73507 AU	asc. node	1169 Nov 22 j 08:37	1°♄28'52	
				morning rise	1169 Nov 25 j 02:27	29°♄57'19	
superior conj	1167 Jun 27 j 01:48	10°♄46'07	0°44'05		1169 Nov 25 j 00:25	30°♄	
minimum elong	1167 Jun 26 j 18:06	10°♄22'26	0°43'45	direct	1169 Dec 09 j 06:06	25°♄57'00	
	1167 Jul 12 j 16:28	0°♄		greatest brilliancy	1169 Dec 19 j 11:53	27°♄57'20	-4.9m
evening rise	1167 Aug 01 j 20:55	24°♄56'01			1169 Dec 24 j 02:54	0°♄	
	1167 Aug 05 j 23:15	0°♄		morning max el	1170 Jan 28 j 18:15	28°♄58'28	46°49'07
	1167 Aug 30 j 05:04	0°♄			1170 Jan 29 j 18:39	0°♄	
	1167 Sep 23 j 11:16	0°♄			1170 Feb 26 j 15:58	0°♄	
desc. node	1167 Sep 27 j 03:00	4°♄30'56		desc. node	1170 Mar 13 j 22:05	17°♄21'35	
	1167 Oct 17 j 18:58	0°♄			1170 Mar 24 j 19:47	0°♄	
	1167 Nov 11 j 05:34	0°♄			1170 Apr 19 j 07:24	0°♄	
	1167 Dec 05 j 22:35	0°♄			1170 May 14 j 10:57	0°♄	

	1170 Jun 08 j 08:57	0°♂		retrograde	1173 Jan 11 j 03:02	27°♂16'04	
	1170 Jul 03 j 01:34	0°♂		evening set	1173 Jan 28 j 05:26	21°♂31'37	
asc. node	1170 Jul 05 j 01:31	2°♂26'24		min. Earth dist.	1173 Jan 31 j 02:12	19°♂45'35	0.27443 AU
	1170 Jul 27 j 12:26	0°♂		inferior conj	1173 Jan 31 j 23:16	19°♂12'33	8°20'59
morning set	1170 Jul 28 j 05:57	0°♂53'57		minimum elong	1173 Jan 31 j 16:59	19°♂22'25	8°20'22
	1170 Aug 20 j 18:00	0°♂		morning rise	1173 Feb 04 j 04:51	17°♂12'38	
max. Earth dist.	1170 Aug 30 j 12:48	12°♂10'20	1.72270 AU	direct	1173 Feb 21 j 15:22	11°♂21'40	
				greatest brilliancy	1173 Mar 02 j 13:04	12°♂50'56	-4.8m
superior conj	1170 Sep 02 j 23:49	16°♂28'58	1°24'12		1173 Mar 29 j 13:22	0°♂	
minimum elong	1170 Sep 03 j 02:04	16°♂35'58	1°24'11	desc. node	1173 Apr 10 j 09:56	10°♂47'42	
	1170 Sep 13 j 19:45	0°♂		morning max el	1173 Apr 11 j 23:12	12°♂17'36	46°07'12
	1170 Oct 07 j 19:32	0°♂			1173 Apr 29 j 08:51	0°♂	
evening rise	1170 Oct 11 j 09:41	4°♂29'34			1173 May 26 j 16:51	0°♂	
desc. node	1170 Oct 24 j 15:02	21°♂02'37			1173 Jun 21 j 19:04	0°♂	
	1170 Oct 31 j 18:49	0°♂			1173 Jul 17 j 04:11	0°♂	
	1170 Nov 24 j 18:35	0°♂		asc. node	1173 Aug 01 j 13:18	18°♂30'11	
	1170 Dec 18 j 20:12	0°♂			1173 Aug 11 j 00:22	0°♂	
	1171 Jan 12 j 02:25	0°♂			1173 Sep 04 j 10:11	0°♂	
	1171 Feb 05 j 18:15	0°♂			1173 Sep 28 j 12:33	0°♂	
asc. node	1171 Feb 14 j 18:10	10°♂45'13		morning set	1173 Oct 06 j 11:15	9°♂56'56	
	1171 Mar 03 j 04:18	0°♂			1173 Oct 22 j 10:37	0°♂	
	1171 Mar 30 j 02:24	0°♂					
evening max el	1171 Apr 15 j 23:01	17°♂11'29	45°30'20	superior conj	1173 Nov 15 j 05:37	29°♂55'49	0°14'01
	1171 Apr 30 j 03:25	0°♂		minimum elong	1173 Nov 15 j 09:15	0°♂07'15	0°13'50
greatest brilliancy	1171 May 23 j 15:29	14°♂55'13	-4.7m	behind sun begin	1173 Nov 14 j 19:10	29°♂22'57	
retrograde	1171 Jun 03 j 13:52	17°♂03'13		behind sun end	1173 Nov 15 j 23:20	0°♂51'33	
desc. node	1171 Jun 06 j 07:36	16°♂54'26		max. Earth dist.	1173 Nov 14 j 20:12	29°♂26'12	1.71094 AU
evening set	1171 Jun 18 j 20:45	12°♂34'14			1173 Nov 15 j 06:57	0°♂	
inferior conj	1171 Jun 25 j 01:02	8°♂51'52	-4°12'49	desc. node	1173 Nov 21 j 02:49	7°♂20'02	
minimum elong	1171 Jun 24 j 16:45	9°♂04'49	4°10'42		1173 Dec 09 j 03:12	0°♂	
min. Earth dist.	1171 Jun 25 j 00:22	8°♂52'55	0.28969 AU	evening rise	1173 Dec 26 j 19:35	22°♂13'03	
morning rise	1171 Jun 30 j 12:42	5°♂32'38			1174 Jan 02 j 00:27	0°♂	
direct	1171 Jul 16 j 17:44	0°♂34'40			1174 Jan 26 j 00:05	0°♂	
greatest brilliancy	1171 Jul 27 j 05:32	2°♂33'47	-4.7m		1174 Feb 19 j 04:16	0°♂	
	1171 Sep 02 j 19:38	0°♂		asc. node	1174 Mar 14 j 06:15	28°♂17'51	
morning max el	1171 Sep 04 j 00:59	1°♂11'19	46°07'30		1174 Mar 15 j 15:51	0°♂	
asc. node	1171 Sep 27 j 11:05	25°♂43'41			1174 Apr 09 j 14:23	0°♂	
	1171 Oct 01 j 07:08	0°♂			1174 May 05 j 05:25	0°♂	
	1171 Oct 27 j 04:16	0°♂			1174 Jun 01 j 01:12	0°♂	
	1171 Nov 20 j 23:26	0°♂		evening max el	1174 Jun 25 j 19:04	25°♂21'53	45°31'38
	1171 Dec 15 j 06:58	0°♂			1174 Jun 30 j 17:54	0°♂	
	1172 Jan 08 j 10:02	0°♂		desc. node	1174 Jul 03 j 19:24	2°♂45'56	
desc. node	1172 Jan 17 j 00:23	10°♂42'22		greatest brilliancy	1174 Aug 04 j 04:29	23°♂31'45	-4.8m
	1172 Feb 01 j 12:10	0°♂		retrograde	1174 Aug 13 j 13:35	25°♂07'44	
	1172 Feb 25 j 15:07	0°♂		evening set	1174 Aug 31 j 14:53	19°♂06'25	
morning set	1172 Mar 09 j 16:10	16°♂11'13		inferior conj	1174 Sep 03 j 17:13	17°♂13'40	-8°42'33
	1172 Mar 20 j 19:50	0°♂		minimum elong	1174 Sep 03 j 19:42	17°♂09'50	8°42'28
	1172 Apr 14 j 02:47	0°♂		min. Earth dist.	1174 Sep 04 j 11:31	16°♂45'31	0.28071 AU
				morning rise	1174 Sep 07 j 00:17	15°♂13'12	
superior conj	1172 Apr 16 j 20:52	3°♂23'37	-0°49'42	direct	1174 Sep 24 j 21:55	9°♂08'46	
minimum elong	1172 Apr 17 j 05:54	3°♂51'28	0°49'21	greatest brilliancy	1174 Oct 06 j 02:25	11°♂27'21	-4.9m
max. Earth dist.	1172 Apr 19 j 01:59	6°♂07'15	1.73240 AU	asc. node	1174 Oct 24 j 22:48	23°♂10'57	
	1172 May 08 j 11:50	0°♂			1174 Nov 01 j 21:49	0°♂	
asc. node	1172 May 09 j 03:58	0°♂49'33		morning max el	1174 Nov 14 j 11:54	12°♂08'37	46°49'10
evening rise	1172 May 23 j 22:44	18°♂58'22			1174 Dec 01 j 05:34	0°♂	
	1172 Jun 01 j 22:31	0°♂			1174 Dec 27 j 08:44	0°♂	
	1172 Jun 26 j 10:35	0°♂			1175 Jan 21 j 11:24	0°♂	
	1172 Jul 21 j 00:38	0°♂		desc. node	1175 Feb 13 j 12:14	27°♂56'53	
	1172 Aug 14 j 18:12	0°♂			1175 Feb 15 j 04:39	0°♂	
desc. node	1172 Aug 28 j 17:10	16°♂48'44			1175 Mar 11 j 18:17	0°♂	
	1172 Sep 08 j 17:35	0°♂			1175 Apr 05 j 06:50	0°♂	
	1172 Oct 04 j 02:32	0°♂			1175 Apr 29 j 19:16	0°♂	
	1172 Oct 30 j 06:44	0°♂		morning set	1175 May 19 j 09:05	23°♂57'36	
evening max el	1172 Nov 21 j 04:00	23°♂29'59	47°21'01		1175 May 24 j 07:24	0°♂	
	1172 Nov 27 j 16:34	0°♂		asc. node	1175 Jun 06 j 15:43	16°♂21'43	
asc. node	1172 Dec 19 j 20:31	18°♂45'58			1175 Jun 17 j 18:18	0°♂	
greatest brilliancy	1172 Dec 31 j 17:33	25°♂12'19	-4.9m	max. Earth dist.	1175 Jun 22 j 17:44	6°♂07'07	1.73529 AU

superior conj	1175 Jun 24 j 20:09	8°  42'10	0°41'22	morning rise	1177 Nov 22 j 14:51	27°  27'50	
minimum elong	1175 Jun 24 j 12:46	8°  19'27	0°41'04	direct	1177 Dec 06 j 19:03	23°  27'59	
	1175 Jul 12 j 03:08	0°  Ω		greatest brilliancy	1177 Dec 17 j 01:17	25°  28'51	-4.9m
evening rise	1175 Jul 30 j 15:02	22°  Ω50'23			1177 Dec 26 j 01:35	0°  ♁	
	1175 Aug 05 j 10:03	0°  ♐		morning max el	1178 Jan 26 j 07:29	26°  ♁33'05	46°50'08
	1175 Aug 29 j 16:06	0°  ♑			1178 Jan 29 j 16:53	0°  ♐	
	1175 Sep 22 j 22:38	0°  ♒			1178 Feb 26 j 08:07	0°  ♑	
desc. node	1175 Sep 26 j 05:11	4°  ♒02'26		desc. node	1178 Mar 13 j 00:17	16°  ♑45'51	
	1175 Oct 17 j 06:45	0°  ♐			1178 Mar 24 j 09:32	0°  ♐	
	1175 Nov 10 j 17:55	0°  ♐			1178 Apr 18 j 19:55	0°  ♐	
	1175 Dec 05 j 11:49	0°  ♑			1178 May 13 j 22:44	0°  ♐	
	1175 Dec 30 j 21:57	0°  ♐			1178 Jun 07 j 20:16	0°  ♒	
asc. node	1176 Jan 17 j 08:18	19°  ♐37'19			1178 Jul 02 j 12:36	0°  ♑	
	1176 Jan 27 j 01:18	0°  ♐		asc. node	1178 Jul 04 j 03:34	1°  ♑58'59	
evening max el	1176 Feb 01 j 15:35	5°  ♐43'47	46°35'04	morning set	1178 Jul 25 j 23:18	28°  ♑45'57	
	1176 Feb 29 j 20:31	0°  ♐			1178 Jul 26 j 23:20	0°  ♒	
greatest brilliancy	1176 Mar 12 j 01:37	5°  ♐55'02	-4.8m		1178 Aug 20 j 04:53	0°  ♐	
retrograde	1176 Mar 22 j 18:45	8°  ♐03'25		max. Earth dist.	1178 Aug 28 j 02:05	9°  ♐48'21	1.72323 AU
evening set	1176 Apr 08 j 03:32	2°  ♐49'39					
	1176 Apr 12 j 18:09	30°  ♐		superior conj	1178 Aug 31 j 16:00	14°  ♐15'51	1°24'30
inferior conj	1176 Apr 13 j 02:28	29°  ♐46'54	5°26'08	minimum elong	1178 Aug 31 j 17:28	14°  ♐20'27	1°24'30
minimum elong	1176 Apr 13 j 11:54	29°  ♐32'01	5°23'59		1178 Sep 13 j 06:43	0°  ♑	
min. Earth dist.	1176 Apr 13 j 03:55	29°  ♐44'36	0.28714 AU		1178 Oct 07 j 06:39	0°  ♒	
morning rise	1176 Apr 18 j 20:31	26°  ♐17'00		evening rise	1178 Oct 08 j 22:21	2°  ♒04'11	
direct	1176 May 04 j 11:11	21°  ♐32'48		desc. node	1178 Oct 23 j 17:02	20°  ♒33'44	
desc. node	1176 May 07 j 21:38	21°  ♐46'22			1178 Oct 31 j 06:06	0°  ♐	
greatest brilliancy	1176 May 14 j 11:37	23°  ♐22'00	-4.7m		1178 Nov 24 j 06:05	0°  ♐	
	1176 May 27 j 10:47	0°  ♐			1178 Dec 18 j 07:57	0°  ♑	
morning max el	1176 Jun 22 j 06:26	21°  ♐19'53	45°44'01		1179 Jan 11 j 14:33	0°  ♐	
	1176 Jul 01 j 02:26	0°  ♒			1179 Feb 05 j 07:02	0°  ♐	
	1176 Jul 29 j 04:35	0°  ♑		asc. node	1179 Feb 13 j 20:21	10°  ♐12'41	
	1176 Aug 24 j 07:43	0°  ♒			1179 Mar 02 j 18:28	0°  ♐	
asc. node	1176 Aug 29 j 01:19	5°  ♒35'09			1179 Mar 29 j 19:58	0°  ♒	
	1176 Sep 18 j 09:31	0°  ♐		evening max el	1179 Apr 13 j 14:27	14°  ♒59'18	45°31'29
	1176 Oct 12 j 19:52	0°  ♑			1179 Apr 30 j 11:19	0°  ♑	
	1176 Nov 05 j 21:31	0°  ♒		greatest brilliancy	1179 May 21 j 08:01	12°  ♑46'41	-4.7m
	1176 Nov 29 j 19:14	0°  ♐		retrograde	1179 Jun 01 j 05:33	14°  ♑54'14	
desc. node	1176 Dec 18 j 14:33	23°  ♐38'33		desc. node	1179 Jun 05 j 09:35	14°  ♑33'50	
morning set	1176 Dec 20 j 23:16	26°  ♐36'47		evening set	1179 Jun 16 j 11:40	10°  ♑27'10	
	1176 Dec 23 j 15:56	0°  ♐		inferior conj	1179 Jun 22 j 17:22	6°  ♑42'45	-3°55'20
	1177 Jan 16 j 13:16	0°  ♑		minimum elong	1179 Jun 22 j 09:31	6°  ♑55'02	3°53'17
				min. Earth dist.	1179 Jun 22 j 16:56	6°  ♑43'26	0.28974 AU
superior conj	1177 Jan 31 j 16:06	18°  ♑56'24	-1°20'48	morning rise	1179 Jun 28 j 07:15	3°  ♑19'58	
minimum elong	1177 Jan 31 j 08:34	18°  ♑32'50	1°20'41		1179 Jul 05 j 10:33	30°  ♐	
max. Earth dist.	1177 Feb 04 j 11:19	23°  ♑41'44	1.71689 AU	direct	1179 Jul 14 j 09:55	28°  ♒25'27	
	1177 Feb 09 j 12:23	0°  ♐			1179 Jul 23 j 17:42	0°  ♑	
	1177 Mar 05 j 14:29	0°  ♐		greatest brilliancy	1179 Jul 24 j 21:44	0°  ♑24'03	-4.7m
evening rise	1177 Mar 12 j 17:04	8°  ♐48'53		morning max el	1179 Sep 01 j 15:03	28°  ♑54'19	46°06'04
	1177 Mar 29 j 20:42	0°  ♐			1179 Sep 02 j 17:53	0°  ♒	
asc. node	1177 Apr 10 j 18:09	14°  ♐37'13		asc. node	1179 Sep 26 j 13:11	25°  ♒03'57	
	1177 Apr 23 j 07:53	0°  ♒			1179 Sep 30 j 23:01	0°  ♐	
	1177 May 18 j 00:52	0°  ♑			1179 Oct 26 j 17:57	0°  ♑	
	1177 Jun 12 j 01:17	0°  ♒			1179 Nov 20 j 12:05	0°  ♒	
	1177 Jul 07 j 12:47	0°  ♐			1179 Dec 14 j 19:03	0°  ♐	
desc. node	1177 Jul 31 j 07:14	27°  ♐11'34			1180 Jan 07 j 21:46	0°  ♐	
	1177 Aug 02 j 19:25	0°  ♑		desc. node	1180 Jan 16 j 02:26	10°  ♐12'32	
	1177 Aug 30 j 18:02	0°  ♒			1180 Jan 31 j 23:38	0°  ♑	
evening max el	1177 Sep 06 j 22:43	7°  ♒11'05	46°36'48		1180 Feb 25 j 02:21	0°  ♐	
	1177 Oct 03 j 18:49	0°  ♐		morning set	1180 Mar 07 j 06:00	13°  ♐50'47	
greatest brilliancy	1177 Oct 17 j 08:22	7°  ♐03'22	-4.9m		1180 Mar 20 j 06:52	0°  ♐	
retrograde	1177 Oct 26 j 20:37	8°  ♐44'36			1180 Apr 13 j 13:41	0°  ♐	
evening set	1177 Nov 10 j 08:18	4°  ♐35'49					
inferior conj	1177 Nov 16 j 08:37	1°  ♐05'31	-1°19'09	superior conj	1180 Apr 14 j 13:20	1°  ♐12'52	-0°52'23
minimum elong	1177 Nov 16 j 11:38	1°  ♐00'55	1°18'10	minimum elong	1180 Apr 14 j 22:38	1°  ♐41'33	0°52'01
min. Earth dist.	1177 Nov 16 j 12:06	1°  ♐00'13	0.26431 AU	max. Earth dist.	1180 Apr 16 j 22:06	4°  ♐07'46	1.73198 AU
	1177 Nov 18 j 03:57	30°  ♒			1180 May 07 j 22:43	0°  ♒	
asc. node	1177 Nov 21 j 10:38	28°  ♒05'56		asc. node	1180 May 08 j 05:56	0°  ♒22'12	

evening rise	1180 May 21 j 17:11	16° Π 54'12			1183 Jan 21 j 00:45	0° \mathcal{Z}		
	1180 Jun 01 j 09:30	0° \mathcal{E}		desc. node	1183 Feb 12 j 14:25	27° \mathcal{Z} 5'26		
	1180 Jun 25 j 21:48	0° Ω			1183 Feb 14 j 17:07	0° \approx		
	1180 Jul 20 j 12:16	0° \mathcal{M}			1183 Mar 11 j 06:09	0° \mathcal{H}		
	1180 Aug 14 j 06:27	0° $\underline{\mathcal{L}}$			1183 Apr 04 j 18:17	0° \mathcal{Y}		
desc. node	1180 Aug 27 j 19:16	16° $\underline{\mathcal{L}}$ 16'54			1183 Apr 29 j 06:26	0° \mathcal{B}		
	1180 Sep 08 j 06:44	0° \mathcal{M}		morning set	1183 May 17 j 03:06	21° \mathcal{B} 52'03		
	1180 Oct 03 j 17:13	0° \mathcal{X}			1183 May 23 j 18:23	0° Π		
	1180 Oct 30 j 00:25	0° \mathcal{Z}		asc. node	1183 Jun 05 j 17:48	15° Π 54'42		
evening max el	1180 Nov 18 j 17:02	21° \mathcal{Z} 02'37	47°21'03		1183 Jun 17 j 05:10	0° \mathcal{E}		
	1180 Nov 27 j 18:59	0° \approx		max. Earth dist.	1183 Jun 20 j 17:15	4° \mathcal{E} 18'24	1.73546 AU	
asc. node	1180 Dec 18 j 22:34	17° \approx 20'35						
greatest brilliancy	1180 Dec 29 j 08:39	22° \approx 48'26	-4.9m	superior conj	1183 Jun 22 j 14:46	6° \mathcal{E} 38'23	0°38'38	
retrograde	1181 Jan 08 j 16:42	24° \approx 51'24		minimum elong	1183 Jun 22 j 07:45	6° \mathcal{E} 16'46	0°38'19	
evening set	1181 Jan 25 j 15:52	19° \approx 12'47			1183 Jul 11 j 14:01	0° Ω		
min. Earth dist.	1181 Jan 28 j 15:57	17° \approx 22'04	0.27381 AU	evening rise	1183 Jul 28 j 09:30	20° Ω 45'15		
inferior conj	1181 Jan 29 j 13:06	16° \approx 48'56	8°13'45		1183 Aug 04 j 21:04	0° \mathcal{M}		
minimum elong	1181 Jan 29 j 06:07	16° \approx 59'54	8°12'59		1183 Aug 29 j 03:23	0° $\underline{\mathcal{L}}$		
morning rise	1181 Feb 01 j 20:38	14° \approx 46'11			1183 Sep 22 j 10:17	0° \mathcal{M}		
direct	1181 Feb 19 j 03:58	8° \approx 58'51		desc. node	1183 Sep 25 j 07:10	3° \mathcal{M} 32'27		
greatest brilliancy	1181 Feb 28 j 02:54	10° \approx 28'57	-4.8m		1183 Oct 16 j 18:54	0° \mathcal{X}		
	1181 Mar 29 j 19:41	0° \mathcal{H}			1183 Nov 10 j 06:41	0° \mathcal{Z}		
desc. node	1181 Apr 09 j 11:53	9° \mathcal{H} 55'21			1183 Dec 05 j 01:34	0° \approx		
morning max el	1181 Apr 09 j 12:25	9° \mathcal{H} 56'40	46°08'49		1183 Dec 30 j 13:33	0° \mathcal{H}		
	1181 Apr 29 j 02:47	0° \mathcal{Y}		asc. node	1184 Jan 16 j 10:29	18° \mathcal{H} 54'05		
	1181 May 26 j 07:13	0° \mathcal{B}			1184 Jan 26 j 21:42	0° \mathcal{Y}		
	1181 Jun 21 j 07:50	0° Π		evening max el	1184 Jan 30 j 07:30	3° \mathcal{Y} 28'12	46°37'41	
	1181 Jul 16 j 16:07	0° \mathcal{E}			1184 Mar 02 j 02:33	0° \mathcal{B}		
asc. node	1181 Jul 31 j 15:29	18° \mathcal{E} 01'36		greatest brilliancy	1184 Mar 09 j 17:45	3° \mathcal{B} 42'14	-4.8m	
	1181 Aug 10 j 11:52	0° Ω		retrograde	1184 Mar 20 j 11:40	5° \mathcal{B} 51'01		
	1181 Sep 03 j 21:28	0° \mathcal{M}		evening set	1184 Apr 05 j 22:22	0° \mathcal{B} 33'17		
	1181 Sep 27 j 23:45	0° $\underline{\mathcal{L}}$			1184 Apr 06 j 20:46	30° \mathcal{R} \mathcal{Y}		
morning set	1181 Oct 04 j 01:09	7° $\underline{\mathcal{L}}$ 34'58		inferior conj	1184 Apr 10 j 18:29	27° \mathcal{Y} 34'23	5°41'48	
	1181 Oct 21 j 21:49	0° \mathcal{M}		minimum elong	1184 Apr 11 j 04:05	27° \mathcal{Y} 19'15	5°39'41	
max. Earth dist.	1181 Nov 12 j 03:37	26° \mathcal{M} 43'09	1.71111 AU	min. Earth dist.	1184 Apr 10 j 19:07	27° \mathcal{Y} 33'23	0.28690 AU	
				morning rise	1184 Apr 16 j 10:08	24° \mathcal{Y} 08'08		
superior conj	1181 Nov 12 j 16:06	27° \mathcal{M} 22'25	0°17'53	direct	1184 May 02 j 03:18	19° \mathcal{Y} 20'51		
minimum elong	1181 Nov 12 j 20:41	27° \mathcal{M} 36'50	0°17'39	desc. node	1184 May 06 j 23:40	19° \mathcal{Y} 47'42		
	1181 Nov 14 j 18:11	0° \mathcal{X}		greatest brilliancy	1184 May 12 j 01:42	21° \mathcal{Y} 08'48	-4.7m	
desc. node	1181 Nov 20 j 04:48	6° \mathcal{X} 50'55			1184 May 28 j 07:38	0° \mathcal{B}		
	1181 Dec 08 j 14:29	0° \mathcal{Z}		morning max el	1184 Jun 19 j 23:05	19° \mathcal{B} 11'20	45°44'04	
evening rise	1181 Dec 24 j 05:24	19° \mathcal{Z} 37'46			1184 Jun 30 j 21:50	0° Π		
	1182 Jan 01 j 11:47	0° \approx			1184 Jul 28 j 19:21	0° \mathcal{E}		
	1182 Jan 25 j 11:30	0° \mathcal{H}			1184 Aug 23 j 20:38	0° Ω		
	1182 Feb 18 j 15:50	0° \mathcal{Y}		asc. node	1184 Aug 28 j 03:21	5° Ω 03'28		
asc. node	1182 Mar 13 j 08:17	27° \mathcal{Y} 47'54			1184 Sep 17 j 21:34	0° \mathcal{M}		
	1182 Mar 15 j 03:45	0° \mathcal{B}			1184 Oct 12 j 07:30	0° $\underline{\mathcal{L}}$		
	1182 Apr 09 j 02:56	0° Π			1184 Nov 05 j 08:57	0° \mathcal{M}		
	1182 May 04 j 19:15	0° \mathcal{E}			1184 Nov 29 j 06:34	0° \mathcal{X}		
	1182 May 31 j 17:56	0° Ω		desc. node	1184 Dec 17 j 16:40	23° \mathcal{X} 09'47		
evening max el	1182 Jun 23 j 09:29	23° Ω 06'43	45°30'23	morning set	1184 Dec 18 j 08:56	24° \mathcal{X} 00'54		
	1182 Jun 30 j 20:07	0° \mathcal{M}			1184 Dec 23 j 03:12	0° \mathcal{Z}		
desc. node	1182 Jul 02 j 21:30	1° \mathcal{M} 49'11			1185 Jan 16 j 00:27	0° \approx		
greatest brilliancy	1182 Aug 01 j 16:23	21° \mathcal{M} 13'16	-4.8m					
retrograde	1182 Aug 11 j 04:08	22° \mathcal{M} 51'11		superior conj	1185 Jan 29 j 02:49	16° \approx 24'51	-1°19'24	
evening set	1182 Aug 29 j 05:06	16° \mathcal{M} 49'00		minimum elong	1185 Jan 28 j 18:29	15° \approx 58'44	1°19'14	
inferior conj	1182 Sep 01 j 07:39	14° \mathcal{M} 55'56	-8°44'02	max. Earth dist.	1185 Feb 01 j 23:09	21° \approx 13'44	1.71639 AU	
minimum elong	1182 Sep 01 j 09:17	14° \mathcal{M} 53'25	8°44'01		1185 Feb 08 j 23:30	0° \mathcal{H}		
min. Earth dist.	1182 Sep 02 j 00:57	14° \mathcal{M} 29'21	0.28135 AU		1185 Mar 05 j 01:34	0° \mathcal{Y}		
morning rise	1182 Sep 04 j 13:15	12° \mathcal{M} 57'45		evening rise	1185 Mar 10 j 06:14	6° \mathcal{Y} 26'40		
direct	1182 Sep 22 j 13:18	6° \mathcal{M} 50'02			1185 Mar 29 j 07:48	0° \mathcal{B}		
greatest brilliancy	1182 Oct 03 j 17:12	9° \mathcal{M} 08'20	-4.8m	asc. node	1185 Apr 09 j 20:07	14° \mathcal{B} 09'03		
asc. node	1182 Oct 24 j 00:48	22° \mathcal{M} 01'56			1185 Apr 22 j 19:08	0° Π		
	1182 Nov 02 j 02:03	0° $\underline{\mathcal{L}}$			1185 May 17 j 12:29	0° \mathcal{E}		
morning max el	1182 Nov 12 j 03:27	9° $\underline{\mathcal{L}}$ 48'59	46°48'08		1185 Jun 11 j 13:32	0° Ω		
	1182 Nov 30 j 23:27	0° \mathcal{M}			1185 Jul 07 j 02:14	0° \mathcal{M}		
	1182 Dec 26 j 23:33	0° \mathcal{X}		desc. node	1185 Jul 30 j 09:22	26° \mathcal{M} 34'22		

	1185 Aug 02 j 11:10	0°♄		desc. node	1188 Jan 15 j 04:34	9°♄34'54	
	1185 Aug 30 j 15:28	0°♍			1188 Jan 31 j 10:49	0°♎	
evening max el	1185 Sep 04 j 12:30	4°♍49'48 46°34'12			1188 Feb 24 j 13:21	0°♏	
	1185 Oct 05 j 03:58	0°♐		morning set	1188 Mar 04 j 19:26	11°♏29'42	
greatest brilliancy	1185 Oct 14 j 21:33	4°♐36'22 -4.9m			1188 Mar 19 j 17:43	0°♑	
retrograde	1185 Oct 24 j 08:22	6°♐15'57					
evening set	1185 Nov 07 j 22:11	2°♐05'34		superior conj	1188 Apr 12 j 05:23	29°♑01'21 -0°55'01	
	1185 Nov 11 j 14:06	30°♑♍		minimum elong	1188 Apr 12 j 14:55	29°♑30'44 0°54'39	
inferior conj	1185 Nov 13 j 20:49	28°♍37'15 -1°43'16			1188 Apr 13 j 00:25	0°♒	
minimum elong	1185 Nov 14 j 00:44	28°♍31'18 1°42'02		max. Earth dist.	1188 Apr 14 j 15:16	1°♒59'44 1.73156 AU	
min. Earth dist.	1185 Nov 14 j 01:51	28°♍29'36 0.26455 AU		asc. node	1188 May 07 j 08:02	29°♒55'45	
morning rise	1185 Nov 20 j 03:07	24°♍59'07			1188 May 07 j 09:25	0°♓	
asc. node	1185 Nov 20 j 12:42	24°♍46'37		evening rise	1188 May 19 j 11:13	14°♓49'22	
direct	1185 Dec 04 j 07:41	20°♍59'25			1188 May 31 j 20:17	0°♔	
greatest brilliancy	1185 Dec 14 j 15:18	23°♍01'09 -4.9m			1188 Jun 25 j 08:48	0°♕	
	1185 Dec 27 j 09:16	0°♐			1188 Jul 19 j 23:39	0°♖	
morning max el	1186 Jan 23 j 20:02	24°♐05'20 46°50'55			1188 Aug 13 j 18:27	0°♗	
	1186 Jan 29 j 14:27	0°♑		desc. node	1188 Aug 26 j 21:13	15°♗45'21	
	1186 Feb 26 j 00:10	0°♒			1188 Sep 07 j 19:42	0°♘	
desc. node	1186 Mar 12 j 02:12	16°♒09'06			1188 Oct 03 j 07:46	0°♙	
	1186 Mar 23 j 23:19	0°♏			1188 Oct 29 j 18:06	0°♑	
	1186 Apr 18 j 08:27	0°♑		evening max el	1188 Nov 16 j 06:24	18°♑37'22 47°21'06	
	1186 May 13 j 10:29	0°♒			1188 Nov 27 j 22:25	0°♒	
	1186 Jun 07 j 07:32	0°♓		asc. node	1188 Dec 18 j 00:41	15°♒53'48	
	1186 Jul 01 j 23:34	0°♔		greatest brilliancy	1188 Dec 26 j 23:17	20°♒25'14 -4.9m	
asc. node	1186 Jul 03 j 05:41	1°♔31'59		retrograde	1189 Jan 06 j 06:51	22°♒28'14	
morning set	1186 Jul 23 j 16:49	26°♔38'41		evening set	1189 Jan 23 j 02:12	16°♒55'15	
	1186 Jul 26 j 10:10	0°♕		min. Earth dist.	1189 Jan 26 j 05:32	15°♒00'04 0.27323 AU	
	1186 Aug 19 j 15:42	0°♖		inferior conj	1189 Jan 27 j 02:58	14°♒26'36 8°05'36	
max. Earth dist.	1186 Aug 25 j 16:15	7°♖29'26 1.72376 AU		minimum elong	1189 Jan 26 j 19:20	14°♒38'31 8°04'38	
				morning rise	1189 Jan 30 j 12:45	12°♒20'46	
superior conj	1186 Aug 29 j 08:38	12°♖04'31 1°24'41		direct	1189 Feb 16 j 16:45	6°♒37'13	
minimum elong	1186 Aug 29 j 09:22	12°♖06'49 1°24'42		greatest brilliancy	1189 Feb 25 j 16:31	8°♒08'04 -4.8m	
	1186 Sep 12 j 17:36	0°♗			1189 Mar 29 j 23:31	0°♏	
evening rise	1186 Oct 06 j 11:40	29°♗41'18		morning max el	1189 Apr 07 j 02:33	7°♏38'53 46°10'16	
	1186 Oct 06 j 17:38	0°♘		desc. node	1189 Apr 08 j 13:57	9°♏05'20	
desc. node	1186 Oct 22 j 19:03	20°♘05'22			1189 Apr 28 j 19:58	0°♑	
	1186 Oct 30 j 17:15	0°♐			1189 May 25 j 21:10	0°♒	
	1186 Nov 23 j 17:27	0°♑			1189 Jun 20 j 20:15	0°♓	
	1186 Dec 17 j 19:37	0°♒			1189 Jul 16 j 03:43	0°♔	
	1187 Jan 11 j 02:39	0°♏		asc. node	1189 Jul 30 j 17:30	17°♔33'33	
	1187 Feb 04 j 19:52	0°♑			1189 Aug 09 j 23:00	0°♕	
asc. node	1187 Feb 12 j 22:20	9°♑39'21			1189 Sep 03 j 08:22	0°♖	
	1187 Mar 02 j 08:46	0°♒			1189 Sep 27 j 10:34	0°♗	
	1187 Mar 29 j 13:57	0°♓		morning set	1189 Oct 01 j 15:15	5°♗14'59	
evening max el	1187 Apr 11 j 05:13	12°♓45'33 45°32'55			1189 Oct 21 j 08:38	0°♘	
	1187 Apr 30 j 22:01	0°♔		max. Earth dist.	1189 Nov 09 j 13:24	24°♘08'42 1.71130 AU	
greatest brilliancy	1187 May 19 j 00:30	10°♔38'22 -4.7m					
retrograde	1187 May 29 j 21:27	12°♔45'58		superior conj	1189 Nov 10 j 02:52	24°♘51'03 0°21'40	
desc. node	1187 Jun 04 j 11:40	12°♔09'04		minimum elong	1189 Nov 10 j 08:21	25°♘08'19 0°21'25	
evening set	1187 Jun 14 j 02:49	8°♔20'15			1189 Nov 14 j 05:03	0°♐	
inferior conj	1187 Jun 20 j 09:47	4°♔34'16 -3°37'39		desc. node	1189 Nov 19 j 06:58	6°♐23'30	
minimum elong	1187 Jun 20 j 02:24	4°♔45'50 3°35'39			1189 Dec 08 j 01:24	0°♑	
min. Earth dist.	1187 Jun 20 j 09:41	4°♔34'26 0.28976 AU		evening rise	1189 Dec 21 j 15:32	17°♑04'35	
morning rise	1187 Jun 26 j 01:49	1°♔08'14			1189 Dec 31 j 22:44	0°♒	
	1187 Jun 28 j 04:20	30°♕♓			1190 Jan 24 j 22:30	0°♏	
direct	1187 Jul 12 j 01:44	26°♓16'47			1190 Feb 18 j 03:00	0°♑	
greatest brilliancy	1187 Jul 22 j 14:22	28°♓15'36 -4.7m		asc. node	1190 Mar 12 j 10:16	27°♑19'01	
	1187 Jul 26 j 18:07	0°♔			1190 Mar 14 j 15:16	0°♒	
morning max el	1187 Aug 30 j 05:37	26°♔39'21 46°04'46			1190 Apr 08 j 15:09	0°♓	
	1187 Sep 02 j 15:03	0°♕			1190 May 04 j 08:50	0°♔	
asc. node	1187 Sep 25 j 15:05	24°♕24'51			1190 May 31 j 10:39	0°♕	
	1187 Sep 30 j 14:23	0°♖		evening max el	1190 Jun 21 j 00:54	20°♕54'56 45°29'12	
	1187 Oct 26 j 07:16	0°♗			1190 Jun 30 j 23:29	0°♖	
	1187 Nov 20 j 00:24	0°♘		desc. node	1190 Jul 01 j 23:37	0°♗52'07	
	1187 Dec 14 j 06:49	0°♐		greatest brilliancy	1190 Jul 30 j 04:23	18°♖56'08 -4.7m	
	1188 Jan 07 j 09:11	0°♑		retrograde	1190 Aug 08 j 18:40	20°♖35'42	

evening set	1190 Aug 26 j 19:03	14° \cap 33'33		minimum elong	1193 Jan 26 j 04:25	13° \approx 25'29	1°17'38
inferior conj	1190 Aug 29 j 22:07	12° \cap 39'31	-8°44'48	max. Earth dist.	1193 Jan 30 j 10:37	18° \approx 45'24	1.71590 AU
minimum elong	1190 Aug 29 j 22:55	12° \cap 38'19	8°44'47		1193 Feb 08 j 10:22	0° H	
min. Earth dist.	1190 Aug 30 j 14:13	12° \cap 14'46	0.28193 AU		1193 Mar 04 j 12:24	0° Y	
morning rise	1190 Sep 02 j 02:35	10° \cap 43'01		evening rise	1193 Mar 07 j 19:15	4° Y 04'39	
direct	1190 Sep 20 j 05:01	4° \cap 32'57			1193 Mar 28 j 18:40	0° B	
greatest brilliancy	1190 Oct 01 j 07:20	6° \cap 50'01	-4.8m	asc. node	1193 Apr 08 j 22:16	13° B 42'10	
asc. node	1190 Oct 23 j 02:57	20° \cap 56'20			1193 Apr 22 j 06:09	0° II	
	1190 Nov 02 j 04:06	0° L			1193 May 16 j 23:51	0° E	
morning max el	1190 Nov 09 j 18:54	7° L 30'40	46°46'57		1193 Jun 11 j 01:36	0° O	
	1190 Nov 30 j 16:31	0° L			1193 Jul 06 j 15:35	0° \cap	
	1190 Dec 26 j 13:47	0° X		desc. node	1193 Jul 29 j 11:17	25° \cap 56'37	
	1191 Jan 20 j 13:36	0° Z			1193 Aug 02 j 03:02	0° L	
desc. node	1191 Feb 11 j 16:20	26° Z 54'28			1193 Aug 30 j 13:40	0° L	
	1191 Feb 14 j 05:07	0° \approx		evening max el	1193 Sep 02 j 01:18	2° L 26'24	46°31'28
	1191 Mar 10 j 17:34	0° H			1193 Oct 07 j 05:12	0° X	
	1191 Apr 04 j 05:18	0° Y		greatest brilliancy	1193 Oct 12 j 11:12	2° X 09'52	-4.9m
	1191 Apr 28 j 17:12	0° B		retrograde	1193 Oct 21 j 19:39	3° X 47'25	
morning set	1191 May 14 j 21:05	19° B 47'34			1193 Nov 04 j 17:02	30° R L	
	1191 May 23 j 04:59	0° II		evening set	1193 Nov 05 j 12:06	29° L 34'54	
asc. node	1191 Jun 04 j 19:55	15° II 28'51		inferior conj	1193 Nov 11 j 08:56	26° L 09'09	-2°07'19
	1191 Jun 16 j 15:43	0° E		minimum elong	1193 Nov 11 j 13:43	26° L 01'53	2°05'48
max. Earth dist.	1191 Jun 18 j 16:02	2° E 28'29	1.73563 AU	min. Earth dist.	1193 Nov 11 j 15:52	25° L 58'35	0.26479 AU
				morning rise	1193 Nov 17 j 15:01	22° L 30'50	
superior conj	1191 Jun 20 j 09:13	4° E 35'04	0°35'49	asc. node	1193 Nov 19 j 14:48	21° L 30'54	
minimum elong	1191 Jun 20 j 02:35	4° E 14'40	0°35'31	direct	1193 Dec 01 j 19:40	18° L 30'44	
	1191 Jul 11 j 00:36	0° O		greatest brilliancy	1193 Dec 12 j 05:44	20° L 34'10	-4.9m
evening rise	1191 Jul 26 j 03:44	18° O 40'22			1193 Dec 28 j 08:00	0° X	
	1191 Aug 04 j 07:47	0° \cap		morning max el	1194 Jan 21 j 08:03	21° X 36'35	46°51'48
	1191 Aug 28 j 14:22	0° L			1194 Jan 29 j 11:04	0° Z	
	1191 Sep 21 j 21:38	0° L			1194 Feb 25 j 15:47	0° \approx	
desc. node	1191 Sep 24 j 09:11	3° L 03'34		desc. node	1194 Mar 11 j 04:17	15° \approx 33'42	
	1191 Oct 16 j 06:42	0° X			1194 Mar 23 j 12:48	0° H	
	1191 Nov 09 j 19:09	0° Z			1194 Apr 17 j 20:46	0° Y	
	1191 Dec 04 j 15:02	0° \approx			1194 May 12 j 22:04	0° B	
	1191 Dec 30 j 04:59	0° H			1194 Jun 06 j 18:38	0° II	
asc. node	1192 Jan 15 j 12:30	18° H 10'54			1194 Jul 01 j 10:23	0° E	
	1192 Jan 26 j 18:22	0° Y		asc. node	1194 Jul 02 j 07:42	1° E 05'08	
evening max el	1192 Jan 27 j 23:36	1° Y 13'55	46°40'12	morning set	1194 Jul 21 j 10:28	24° E 32'15	
	1192 Mar 03 j 21:50	0° B			1194 Jul 25 j 20:52	0° O	
greatest brilliancy	1192 Mar 07 j 10:33	1° B 31'14	-4.8m		1194 Aug 19 j 02:25	0° \cap	
retrograde	1192 Mar 18 j 04:19	3° B 39'30		max. Earth dist.	1194 Aug 23 j 08:41	5° \cap 17'52	1.72435 AU
	1192 Mar 31 j 16:00	30° R Y					
evening set	1192 Apr 03 j 17:17	28° Y 18'04		superior conj	1194 Aug 27 j 01:20	9° \cap 53'39	1°24'45
inferior conj	1192 Apr 08 j 10:33	25° Y 23'01	5°56'59	minimum elong	1194 Aug 27 j 01:20	9° \cap 53'37	1°24'45
minimum elong	1192 Apr 08 j 20:14	25° Y 07'43	5°54'54		1194 Sep 12 j 04:26	0° L	
min. Earth dist.	1192 Apr 08 j 10:28	25° Y 23'08	0.28663 AU	evening rise	1194 Oct 04 j 00:56	27° L 18'24	
morning rise	1192 Apr 13 j 23:34	22° Y 00'25			1194 Oct 06 j 04:38	0° L	
direct	1192 Apr 29 j 19:25	17° Y 10'14		desc. node	1194 Oct 21 j 21:12	19° L 37'17	
desc. node	1192 May 06 j 01:45	17° Y 54'35			1194 Oct 30 j 04:27	0° X	
greatest brilliancy	1192 May 09 j 15:36	18° Y 56'28	-4.7m		1194 Nov 23 j 04:52	0° Z	
	1192 May 28 j 22:31	0° B			1194 Dec 17 j 07:19	0° \approx	
morning max el	1192 Jun 17 j 14:55	17° B 01'52	45°44'01		1195 Jan 10 j 14:45	0° H	
	1192 Jun 30 j 16:17	0° II			1195 Feb 04 j 08:44	0° Y	
	1192 Jul 28 j 09:38	0° E		asc. node	1195 Feb 12 j 00:19	9° Y 06'03	
asc. node	1192 Aug 23 j 09:14	0° O			1195 Mar 01 j 23:12	0° B	
	1192 Aug 27 j 05:19	4° O 32'25			1195 Mar 29 j 08:22	0° II	
	1192 Sep 17 j 09:21	0° \cap		evening max el	1195 Apr 08 j 19:56	10° II 31'42	45°34'27
	1192 Oct 11 j 18:53	0° L			1195 May 01 j 12:24	0° E	
	1192 Nov 04 j 20:07	0° L		greatest brilliancy	1195 May 16 j 16:32	8° E 29'32	-4.7m
	1192 Nov 28 j 17:36	0° X		retrograde	1195 May 27 j 13:47	10° E 37'56	
morning set	1192 Dec 15 j 18:37	21° X 26'00		desc. node	1195 Jun 03 j 13:46	9° E 39'46	
desc. node	1192 Dec 16 j 18:43	22° X 41'45		evening set	1195 Jun 11 j 18:08	6° E 13'04	
	1192 Dec 22 j 14:09	0° Z		inferior conj	1195 Jun 18 j 02:13	2° E 25'51	-3°19'31
	1193 Jan 15 j 11:21	0° \approx		minimum elong	1195 Jun 17 j 19:21	2° E 36'36	3°17'39
				min. Earth dist.	1195 Jun 18 j 02:21	2° E 25'39	0.28978 AU
superior conj	1193 Jan 26 j 13:30	13° \approx 53'58	-1°17'50		1195 Jun 22 j 00:53	30° R II	

morning rise	1195 Jun 23 j 20:20	28° Π 56'53			1198 Jan 24 j 09:53	0° H	
direct	1195 Jul 09 j 17:29	24° Π 08'06			1198 Feb 17 j 14:34	0° Υ	
greatest brilliancy	1195 Jul 20 j 07:02	26° Π 07'26	-4.7m	asc. node	1198 Mar 11 j 12:24	26° Υ 49'26	
	1195 Jul 28 j 12:49	0° E			1198 Mar 14 j 03:12	0° B	
morning max el	1195 Aug 27 j 21:00	24° E 26'39	46°03'29		1198 Apr 08 j 03:47	0° Π	
	1195 Sep 02 j 11:29	0° Ω			1198 May 03 j 22:55	0° E	
asc. node	1195 Sep 24 j 17:18	23° Ω 46'57			1198 May 31 j 04:06	0° Ω	
	1195 Sep 30 j 05:35	0° M		evening max el	1198 Jun 18 j 16:43	18° Ω 43'12	45°28'02
	1195 Oct 25 j 20:34	0° A		desc. node	1198 Jul 01 j 01:34	29° Ω 52'31	
	1195 Nov 19 j 12:49	0° M			1198 Jul 01 j 05:08	0° M	
	1195 Dec 13 j 18:44	0° A		greatest brilliancy	1198 Jul 27 j 16:59	16° M 39'04	-4.7m
	1196 Jan 06 j 20:46	0° B		retrograde	1198 Aug 06 j 08:59	18° M 19'38	
desc. node	1196 Jan 14 j 06:33	9° B 14'17		evening set	1198 Aug 24 j 08:48	12° M 18'23	
	1196 Jan 30 j 22:09	0° \approx		inferior conj	1198 Aug 27 j 12:45	10° M 22'45	-8°44'43
	1196 Feb 24 j 00:28	0° H		minimum elong	1198 Aug 27 j 12:42	10° M 22'50	8°44'43
morning set	1196 Mar 02 j 08:29	9° H 06'52		min. Earth dist.	1198 Aug 28 j 03:46	9° M 59'36	0.28246 AU
	1196 Mar 19 j 04:39	0° Υ		morning rise	1198 Aug 30 j 16:26	8° M 27'13	
				direct	1198 Sep 17 j 20:48	2° M 15'40	
superior conj	1196 Apr 09 j 21:16	26° Υ 48'54	-0°57'34	greatest brilliancy	1198 Sep 28 j 21:21	4° M 30'59	-4.8m
minimum elong	1196 Apr 10 j 06:58	27° Υ 18'49	0°57'13	asc. node	1198 Oct 22 j 04:59	19° M 51'30	
	1196 Apr 12 j 11:15	0° B			1198 Nov 02 j 05:08	0° A	
max. Earth dist.	1196 Apr 12 j 07:57	29° Υ 49'49	1.73115 AU	morning max el	1198 Nov 07 j 09:46	5° A 10'11	46°45'49
asc. node	1196 May 06 j 10:07	29° B 28'53			1198 Nov 30 j 09:31	0° M	
	1196 May 06 j 20:15	0° Π			1198 Dec 26 j 04:09	0° A	
evening rise	1196 May 17 j 05:16	12° Π 44'14			1199 Jan 20 j 02:42	0° B	
	1196 May 31 j 07:13	0° E		desc. node	1199 Feb 10 j 18:25	26° B 23'00	
	1196 Jun 24 j 19:58	0° Ω			1199 Feb 13 j 17:26	0° \approx	
	1196 Jul 19 j 11:12	0° M			1199 Mar 10 j 05:22	0° H	
	1196 Aug 13 j 06:37	0° A			1199 Apr 03 j 16:44	0° Υ	
desc. node	1196 Aug 25 j 23:20	15° A 13'48			1199 Apr 28 j 04:21	0° B	
	1196 Sep 07 j 08:53	0° M		morning set	1199 May 12 j 14:52	17° B 41'19	
	1196 Oct 02 j 22:41	0° A			1199 May 22 j 15:57	0° Π	
	1196 Oct 29 j 12:30	0° B		asc. node	1199 Jun 03 j 21:52	15° Π 01'24	
evening max el	1196 Nov 13 j 20:35	16° B 13'21	47°20'52		1199 Jun 16 j 02:36	0° E	
	1196 Nov 28 j 04:13	0° \approx		max. Earth dist.	1199 Jun 16 j 14:07	0° E 35'22	1.73576 AU
asc. node	1196 Dec 17 j 02:41	14° \approx 22'14					
greatest brilliancy	1196 Dec 24 j 13:09	17° \approx 59'16	-4.9m	superior conj	1199 Jun 18 j 03:36	2° E 30'33	0°32'57
retrograde	1197 Jan 03 j 21:12	20° \approx 02'49		minimum elong	1199 Jun 17 j 21:23	2° E 11'29	0°32'40
evening set	1197 Jan 20 j 12:02	14° \approx 35'36			1199 Jul 10 j 11:32	0° Ω	
min. Earth dist.	1197 Jan 23 j 18:33	12° \approx 36'03	0.27262 AU	evening rise	1199 Jul 23 j 22:07	16° Ω 34'52	
inferior conj	1197 Jan 24 j 16:28	12° \approx 01'56	7°56'18		1199 Aug 03 j 18:53	0° M	
minimum elong	1197 Jan 24 j 08:16	12° \approx 14'43	7°55'11		1199 Aug 28 j 01:44	0° A	
morning rise	1197 Jan 28 j 04:47	9° \approx 52'41			1199 Sep 21 j 09:21	0° M	
direct	1197 Feb 14 j 05:38	4° \approx 13'22		desc. node	1199 Sep 23 j 11:20	2° M 33'58	
greatest brilliancy	1197 Feb 23 j 05:23	5° \approx 44'36	-4.8m		1199 Oct 15 j 18:53	0° A	
	1197 Mar 30 j 02:12	0° H			1199 Nov 09 j 07:58	0° B	
morning max el	1197 Apr 04 j 17:17	5° H 21'33	46°11'50		1199 Dec 04 j 04:54	0° \approx	
desc. node	1197 Apr 07 j 16:08	8° H 15'30			1199 Dec 29 j 20:57	0° H	
	1197 Apr 28 j 13:05	0° Υ		asc. node	1200 Jan 14 j 14:29	17° H 26'16	
	1197 May 25 j 11:12	0° B		evening max el	1200 Jan 25 j 15:07	28° H 57'01	46°42'28
	1197 Jun 20 j 08:51	0° Π			1200 Jan 26 j 16:11	0° Υ	
	1197 Jul 15 j 15:31	0° E		greatest brilliancy	1200 Mar 05 j 03:50	29° Υ 19'24	-4.8m
asc. node	1197 Jul 29 j 19:29	17° E 04'44			1200 Mar 07 j 02:24	0° B	
	1197 Aug 09 j 10:22	0° Ω		retrograde	1200 Mar 15 j 20:25	1° B 26'30	
	1197 Sep 02 j 19:30	0° M			1200 Mar 24 j 06:06	30° R Υ	
	1197 Sep 26 j 21:36	0° A		evening set	1200 Apr 01 j 12:14	26° Υ 01'26	
morning set	1197 Sep 29 j 05:51	2° A 55'56		inferior conj	1200 Apr 06 j 02:37	23° Υ 10'19	6°11'38
	1197 Oct 20 j 19:41	0° M		minimum elong	1200 Apr 06 j 12:21	22° Υ 54'56	6°09'37
max. Earth dist.	1197 Nov 06 j 23:56	21° M 35'54	1.71152 AU	min. Earth dist.	1200 Apr 06 j 02:10	23° Υ 11'02	0.28636 AU
				morning rise	1200 Apr 11 j 12:50	19° Υ 51'25	
superior conj	1197 Nov 07 j 14:00	22° M 20'07	0°25'24	direct	1200 Apr 27 j 11:12	14° Υ 58'14	
minimum elong	1197 Nov 07 j 20:18	22° M 39'58	0°25'06	desc. node	1200 May 05 j 03:48	16° Υ 04'12	
	1197 Nov 13 j 16:11	0° A		greatest brilliancy	1200 May 07 j 06:02	16° Υ 43'10	-4.7m
desc. node	1197 Nov 18 j 08:59	5° A 54'51			1200 May 29 j 10:14	0° B	
	1197 Dec 07 j 12:37	0° B		morning max el	1200 Jun 15 j 06:00	14° B 49'14	45°44'06
evening rise	1197 Dec 19 j 01:34	14° B 30'08			1200 Jun 30 j 10:43	0° Π	
	1197 Dec 31 j 10:01	0° \approx			1200 Jul 28 j 00:07	0° E	

	1200 Aug 22 j 22:05	0°♌		1203 Mar 01 j 13:53	0°♋	
asc. node	1200 Aug 26 j 07:30	4°♌01'10		1203 Mar 29 j 03:20	0°♊	
	1200 Sep 16 j 21:25	0°♎	evening max el	1203 Apr 06 j 11:16	8°♊19'18	45°36'05
	1200 Oct 11 j 06:34	0°♊		1203 May 02 j 07:50	0°♋	
	1200 Nov 04 j 07:36	0°♎	greatest brilliancy	1203 May 14 j 08:03	6°♋20'08	-4.7m
	1200 Nov 28 j 04:57	0°♌	retrograde	1203 May 25 j 06:35	8°♋29'58	
morning set	1200 Dec 13 j 04:41	18°♌51'18	desc. node	1203 Jun 02 j 15:43	7°♋06'14	
desc. node	1200 Dec 15 j 20:43	22°♌12'38	evening set	1203 Jun 09 j 09:44	4°♋05'39	
	1200 Dec 22 j 01:24	0°♋	inferior conj	1203 Jun 15 j 18:44	0°♋17'21	-3°01'08
	1201 Jan 14 j 22:31	0°♌	minimum elong	1203 Jun 15 j 12:24	0°♋27'15	2°59'24
			min. Earth dist.	1203 Jun 15 j 18:50	0°♋17'11	0.28983 AU
superior conj	1201 Jan 24 j 00:30	11°♌23'15 -1°16'07		1203 Jun 16 j 05:51	30°♎♊	
minimum elong	1201 Jan 23 j 14:45	10°♌52'40 1°15'54	morning rise	1203 Jun 21 j 14:53	26°♊45'45	
max. Earth dist.	1201 Jan 27 j 20:43	16°♌12'00 1.71540 AU	direct	1203 Jul 07 j 09:49	21°♊59'18	
	1201 Feb 07 j 21:28	0°♎	greatest brilliancy	1203 Jul 17 j 23:37	23°♊59'05	-4.7m
	1201 Mar 03 j 23:30	0°♎		1203 Jul 29 j 18:12	0°♋	
evening rise	1201 Mar 05 j 08:22	1°♎42'00	morning max el	1203 Aug 25 j 13:25	22°♋16'17	46°02'12
	1201 Mar 28 j 05:50	0°♋		1203 Sep 02 j 07:25	0°♌	
asc. node	1201 Apr 08 j 00:19	13°♋13'58	asc. node	1203 Sep 23 j 19:20	23°♌08'35	
	1201 Apr 21 j 17:30	0°♊		1203 Sep 29 j 20:40	0°♎	
	1201 May 16 j 11:35	0°♋		1203 Oct 25 j 09:50	0°♊	
	1201 Jun 10 j 14:04	0°♌		1203 Nov 19 j 01:12	0°♎	
desc. node	1201 Jul 06 j 05:23	0°♎		1203 Dec 13 j 06:39	0°♌	
	1201 Jul 28 j 13:26	25°♎18'22		1204 Jan 06 j 08:23	0°♋	
	1201 Aug 01 j 19:29	0°♊	desc. node	1204 Jan 13 j 08:36	8°♋44'45	
evening max el	1201 Aug 30 j 13:25	0°♎00'45 46°28'48		1204 Jan 30 j 09:32	0°♌	
	1201 Aug 30 j 13:06	0°♎		1204 Feb 23 j 11:37	0°♎	
greatest brilliancy	1201 Oct 10 j 00:53	29°♎42'53 -4.9m	morning set	1204 Feb 28 j 21:27	6°♎43'32	
	1201 Oct 10 j 22:22	0°♌		1204 Mar 18 j 15:37	0°♎	
retrograde	1201 Oct 19 j 07:00	1°♌18'45				
	1201 Oct 27 j 09:00	30°♎♊	superior conj	1204 Apr 07 j 13:14	24°♎36'32	-1°00'02
evening set	1201 Nov 03 j 02:14	27°♎03'23	minimum elong	1204 Apr 07 j 23:03	25°♎06'51	0°59'42
inferior conj	1201 Nov 08 j 21:09	23°♎40'39 -2°31'00	max. Earth dist.	1204 Apr 10 j 01:53	27°♎43'39	1.73070 AU
minimum elong	1201 Nov 09 j 02:45	23°♎32'07 2°29'14		1204 Apr 11 j 22:06	0°♋	
min. Earth dist.	1201 Nov 09 j 06:05	23°♎27'03 0.26510 AU	asc. node	1204 May 05 j 12:07	29°♋01'46	
morning rise	1201 Nov 15 j 02:49	20°♎02'37		1204 May 06 j 07:04	0°♊	
asc. node	1201 Nov 18 j 16:48	18°♎19'26	evening rise	1204 May 14 j 23:33	10°♊39'50	
direct	1201 Nov 29 j 07:41	16°♎01'16		1204 May 30 j 18:09	0°♋	
greatest brilliancy	1201 Dec 09 j 20:41	18°♎07'10 -4.9m		1204 Jun 24 j 07:08	0°♌	
	1201 Dec 29 j 01:14	0°♌		1204 Jul 18 j 22:46	0°♎	
morning max el	1202 Jan 18 j 20:45	19°♌08'41 46°52'51		1204 Aug 12 j 18:51	0°♊	
	1202 Jan 29 j 07:18	0°♋	desc. node	1204 Aug 25 j 01:25	14°♊42'03	
	1202 Feb 25 j 07:21	0°♌		1204 Sep 06 j 22:11	0°♎	
desc. node	1202 Mar 10 j 06:27	14°♌58'15		1204 Oct 02 j 13:45	0°♌	
	1202 Mar 23 j 02:21	0°♎		1204 Oct 29 j 07:18	0°♋	
	1202 Apr 17 j 09:11	0°♎	evening max el	1204 Nov 11 j 11:39	13°♋51'50	47°20'35
	1202 May 12 j 09:47	0°♋		1204 Nov 28 j 12:09	0°♌	
	1202 Jun 06 j 05:55	0°♊	asc. node	1204 Dec 16 j 04:44	12°♌47'42	
	1202 Jun 30 j 21:25	0°♋	greatest brilliancy	1204 Dec 22 j 02:41	15°♌33'05	-4.9m
asc. node	1202 Jul 01 j 09:45	0°♋37'39	retrograde	1205 Jan 01 j 11:43	17°♌37'17	
morning set	1202 Jul 19 j 04:09	22°♋25'13	evening set	1205 Jan 17 j 21:47	12°♌16'00	
	1202 Jul 25 j 07:47	0°♌	min. Earth dist.	1205 Jan 21 j 07:24	10°♌12'05	0.27203 AU
	1202 Aug 18 j 13:21	0°♎	inferior conj	1205 Jan 22 j 05:55	9°♌37'06	7°46'05
max. Earth dist.	1202 Aug 21 j 02:59	3°♎11'32 1.72490 AU	minimum elong	1205 Jan 21 j 21:10	9°♌50'41	7°44'47
			morning rise	1205 Jan 25 j 20:56	7°♌24'13	
superior conj	1202 Aug 24 j 18:06	7°♎42'27 1°24'40	direct	1205 Feb 11 j 19:00	1°♌49'31	
minimum elong	1202 Aug 24 j 17:21	7°♎40'06 1°24'40	greatest brilliancy	1205 Feb 20 j 17:57	3°♌20'36	-4.8m
	1202 Sep 11 j 15:26	0°♊		1205 Mar 30 j 03:26	0°♎	
evening rise	1202 Oct 01 j 14:28	24°♊55'56	morning max el	1205 Apr 02 j 08:19	3°♎05'02	46°13'24
	1202 Oct 05 j 15:48	0°♎	desc. node	1205 Apr 06 j 18:03	7°♎26'06	
desc. node	1202 Oct 20 j 23:11	19°♎08'08		1205 Apr 28 j 05:48	0°♎	
	1202 Oct 29 j 15:49	0°♌		1205 May 25 j 01:00	0°♋	
	1202 Nov 22 j 16:29	0°♋		1205 Jun 19 j 21:14	0°♊	
	1202 Dec 16 j 19:14	0°♌		1205 Jul 15 j 03:08	0°♋	
	1203 Jan 10 j 03:05	0°♎	asc. node	1205 Jul 28 j 21:40	16°♋37'02	
	1203 Feb 03 j 21:48	0°♎		1205 Aug 08 j 21:34	0°♌	
asc. node	1203 Feb 11 j 02:31	8°♎32'49		1205 Sep 02 j 06:30	0°♎	

	1205 Sep 26 j 08:33	0°♄		evening set	1208 Mar 30 j 07:00	23°♃44'43	
morning set	1205 Sep 26 j 20:28	0°♄37'15		inferior conj	1208 Apr 03 j 18:31	20°♃57'46	6°25'46
	1205 Oct 20 j 06:39	0°♍		minimum elong	1208 Apr 04 j 04:12	20°♃42'25	6°23'52
max. Earth dist.	1205 Nov 04 j 07:27	18°♍53'57	1.71172 AU	min. Earth dist.	1208 Apr 03 j 17:54	20°♃58'44	0.28609 AU
				morning rise	1208 Apr 09 j 01:43	17°♃42'47	
superior conj	1205 Nov 05 j 01:08	19°♍49'34	0°29'05	direct	1208 Apr 25 j 02:14	12°♃46'12	
minimum elong	1205 Nov 05 j 08:12	20°♍11'47	0°28'44	desc. node	1208 May 04 j 05:51	14°♃18'05	
	1205 Nov 13 j 03:13	0°♁		greatest brilliancy	1208 May 04 j 20:48	14°♃30'28	-4.7m
desc. node	1205 Nov 17 j 11:01	5°♁26'32			1208 May 29 j 18:38	0°♄	
	1205 Dec 06 j 23:41	0°♄		morning max el	1208 Jun 12 j 20:40	12°♄36'08	45°44'23
evening rise	1205 Dec 16 j 11:23	11°♄55'24			1208 Jun 30 j 04:25	0°♅	
	1205 Dec 30 j 21:09	0°♅			1208 Jul 27 j 14:07	0°♅	
	1206 Jan 23 j 21:08	0°♆			1208 Aug 22 j 10:31	0°♆	
	1206 Feb 17 j 02:02	0°♃		asc. node	1208 Aug 25 j 09:31	3°♆30'37	
asc. node	1206 Mar 10 j 14:26	26°♃19'47			1208 Sep 16 j 09:06	0°♇	
	1206 Mar 13 j 15:03	0°♄			1208 Oct 10 j 17:52	0°♄	
	1206 Apr 07 j 16:21	0°♅			1208 Nov 03 j 18:43	0°♍	
	1206 May 03 j 12:57	0°♅			1208 Nov 27 j 15:58	0°♁	
	1206 May 30 j 21:39	0°♆		morning set	1208 Dec 10 j 14:31	16°♁16'40	
evening max el	1206 Jun 16 j 08:04	16°♆31'08	45°26'58	desc. node	1208 Dec 14 j 22:52	21°♁44'52	
desc. node	1206 Jun 30 j 03:42	28°♆52'51			1208 Dec 21 j 12:22	0°♄	
	1206 Jul 01 j 12:35	0°♇			1209 Jan 14 j 09:26	0°♅	
greatest brilliancy	1206 Jul 25 j 06:12	14°♇23'58	-4.7m				
retrograde	1206 Aug 03 j 22:58	16°♇04'59		superior conj	1209 Jan 21 j 10:56	8°♅51'24	-1°14'13
evening set	1206 Aug 21 j 22:19	10°♇05'23		minimum elong	1209 Jan 21 j 00:35	8°♅18'59	1°13'57
inferior conj	1206 Aug 25 j 03:34	8°♇07'32	-8°43'44	max. Earth dist.	1209 Jan 25 j 02:45	13°♅26'29	1.71493 AU
minimum elong	1206 Aug 25 j 02:40	8°♇08'55	8°43'44		1209 Feb 07 j 08:21	0°♆	
min. Earth dist.	1206 Aug 25 j 17:46	7°♇45'35	0.28299 AU	evening rise	1209 Mar 02 j 20:50	29°♆18'02	
morning rise	1206 Aug 28 j 06:52	6°♇12'17			1209 Mar 03 j 10:21	0°♃	
	1206 Sep 15 j 04:29	30°♆♄			1209 Mar 27 j 16:44	0°♄	
direct	1206 Sep 15 j 12:23	29°♄59'52		asc. node	1209 Apr 07 j 02:18	12°♄46'24	
	1206 Sep 15 j 20:17	0°♇			1209 Apr 21 j 04:36	0°♅	
greatest brilliancy	1206 Sep 26 j 12:02	2°♇13'49	-4.8m		1209 May 15 j 23:06	0°♅	
asc. node	1206 Oct 21 j 07:00	18°♇48'58			1209 Jun 10 j 02:20	0°♆	
	1206 Nov 02 j 04:47	0°♄			1209 Jul 05 j 19:00	0°♇	
morning max el	1206 Nov 04 j 23:47	2°♄48'12	46°44'29	desc. node	1209 Jul 27 j 15:33	24°♇40'42	
	1206 Nov 30 j 02:03	0°♍			1209 Aug 01 j 11:52	0°♄	
	1206 Dec 25 j 18:13	0°♁		evening max el	1209 Aug 28 j 01:36	27°♄36'46	46°26'21
	1207 Jan 19 j 15:30	0°♄			1209 Aug 30 j 13:05	0°♍	
desc. node	1207 Feb 09 j 20:36	25°♄52'39		greatest brilliancy	1209 Oct 07 j 13:58	27°♍17'05	-4.9m
	1207 Feb 13 j 05:28	0°♅		retrograde	1209 Oct 16 j 18:50	28°♍52'13	
	1207 Mar 09 j 16:54	0°♆		evening set	1209 Oct 31 j 16:40	24°♍33'24	
	1207 Apr 03 j 03:54	0°♃		inferior conj	1209 Nov 06 j 09:30	21°♍13'54	-2°54'04
	1207 Apr 27 j 15:16	0°♄		minimum elong	1209 Nov 06 j 15:54	21°♍04'11	2°52'07
morning set	1207 May 10 j 08:34	15°♄35'29		min. Earth dist.	1209 Nov 06 j 20:03	20°♍57'53	0.26547 AU
	1207 May 22 j 02:41	0°♅		morning rise	1209 Nov 12 j 14:34	17°♍36'45	
asc. node	1207 Jun 02 j 24:00	14°♅35'10		asc. node	1209 Nov 17 j 18:53	15°♍14'58	
max. Earth dist.	1207 Jun 14 j 10:25	28°♅37'36	1.73584 AU	direct	1209 Nov 26 j 20:13	13°♍33'29	
				greatest brilliancy	1209 Dec 07 j 11:30	15°♍41'44	-4.9m
superior conj	1207 Jun 15 j 22:05	0°♅27'12	0°30'03		1209 Dec 29 j 13:34	0°♁	
minimum elong	1207 Jun 15 j 16:21	0°♅09'35	0°29'47	morning max el	1210 Jan 16 j 10:28	16°♁44'22	46°53'34
	1207 Jun 15 j 13:14	0°♅			1210 Jan 29 j 02:36	0°♄	
	1207 Jul 09 j 22:11	0°♆			1210 Feb 24 j 22:29	0°♅	
evening rise	1207 Jul 21 j 16:43	14°♆31'02		desc. node	1210 Mar 09 j 08:23	14°♅23'03	
	1207 Aug 03 j 05:41	0°♇			1210 Mar 22 j 15:34	0°♆	
	1207 Aug 27 j 12:48	0°♄			1210 Apr 16 j 21:20	0°♃	
	1207 Sep 20 j 20:49	0°♍			1210 May 11 j 21:15	0°♄	
desc. node	1207 Sep 22 j 13:20	2°♍04'44			1210 Jun 05 j 16:56	0°♅	
	1207 Oct 15 j 06:50	0°♁		asc. node	1210 Jun 30 j 11:52	0°♅11'14	
	1207 Nov 08 j 20:37	0°♄			1210 Jun 30 j 08:12	0°♅	
	1207 Dec 03 j 18:42	0°♅		morning set	1210 Jul 16 j 21:42	20°♅18'37	
	1207 Dec 29 j 13:01	0°♆			1210 Jul 24 j 18:28	0°♆	
asc. node	1208 Jan 13 j 16:41	16°♆42'06			1210 Aug 18 j 00:01	0°♇	
evening max el	1208 Jan 23 j 05:30	26°♆37'31	46°44'49	max. Earth dist.	1210 Aug 18 j 21:26	1°♇06'31	1.72540 AU
	1208 Jan 26 j 14:40	0°♃					
greatest brilliancy	1208 Mar 02 j 21:08	27°♃07'43	-4.8m	superior conj	1210 Aug 22 j 10:54	5°♇32'12	1°24'27
retrograde	1208 Mar 13 j 12:01	29°♃13'37		minimum elong	1210 Aug 22 j 09:26	5°♇27'36	1°24'27

	1210 Sep 11 j 02:11	0°♄			1213 Feb 14 j 16:08	0°♁	
evening rise	1210 Sep 29 j 04:18	22°♄35'21		greatest brilliancy	1213 Feb 18 j 06:29	0°♁57'23	-4.8m
	1210 Oct 05 j 02:40	0°♄			1213 Mar 30 j 03:09	0°♁	
desc. node	1210 Oct 20 j 01:14	18°♄40'11		morning max el	1213 Mar 30 j 22:36	0°♁47'17	46°14'45
	1210 Oct 29 j 02:51	0°♄		desc. node	1213 Apr 05 j 20:10	6°♁38'45	
	1210 Nov 22 j 03:46	0°♄			1213 Apr 27 j 22:01	0°♁	
	1210 Dec 16 j 06:50	0°♁			1213 May 24 j 14:35	0°♁	
	1211 Jan 09 j 15:09	0°♁			1213 Jun 19 j 09:31	0°♄	
	1211 Feb 03 j 10:43	0°♁			1213 Jul 14 j 14:42	0°♄	
asc. node	1211 Feb 10 j 04:29	7°♁59'25		asc. node	1213 Jul 27 j 23:39	16°♄08'49	
	1211 Mar 01 j 04:34	0°♁			1213 Aug 08 j 08:43	0°♄	
	1211 Mar 28 j 22:42	0°♄			1213 Sep 01 j 17:27	0°♄	
evening max el	1211 Apr 04 j 03:20	6°♄08'57 45°37'47		morning set	1213 Sep 24 j 10:53	28°♄18'13	
	1211 May 03 j 10:26	0°♄			1213 Sep 25 j 19:27	0°♄	
greatest brilliancy	1211 May 11 j 23:18	4°♄10'32 -4.7m			1213 Oct 19 j 17:36	0°♄	
retrograde	1211 May 22 j 23:27	6°♄21'44		max. Earth dist.	1213 Nov 01 j 11:58	16°♄02'46 1.71196 AU	
desc. node	1211 Jun 01 j 17:51	4°♄27'52					
evening set	1211 Jun 07 j 01:21	1°♄58'01		superior conj	1213 Nov 02 j 12:20	17°♄19'22 0°32'40	
	1211 Jun 10 j 10:54	30°♄		minimum elong	1213 Nov 02 j 20:06	17°♄43'46 0°32'19	
inferior conj	1211 Jun 13 j 11:01	28°♄08'37 -2°42'29			1213 Nov 12 j 14:13	0°♄	
minimum elong	1211 Jun 13 j 05:16	28°♄17'35 2°40'52		desc. node	1213 Nov 16 j 13:08	4°♄58'33	
min. Earth dist.	1211 Jun 13 j 10:49	28°♄08'55 0.28985 AU			1213 Dec 06 j 10:45	0°♄	
morning rise	1211 Jun 19 j 09:06	24°♄34'36		evening rise	1213 Dec 13 j 21:13	9°♄20'40	
direct	1211 Jul 05 j 02:28	19°♄50'30			1213 Dec 30 j 08:16	0°♁	
greatest brilliancy	1211 Jul 15 j 15:21	21°♄50'00 -4.7m			1214 Jan 23 j 08:19	0°♁	
	1211 Jul 30 j 15:20	0°♄			1214 Feb 16 j 13:24	0°♁	
morning max el	1211 Aug 23 j 06:00	20°♄07'00 46°00'54		asc. node	1214 Mar 09 j 16:26	25°♁50'24	
	1211 Sep 02 j 02:34	0°♄			1214 Mar 13 j 02:48	0°♁	
asc. node	1211 Sep 22 j 21:18	22°♄31'01			1214 Apr 07 j 04:53	0°♄	
	1211 Sep 29 j 11:22	0°♄			1214 May 03 j 03:05	0°♄	
	1211 Oct 24 j 22:48	0°♄			1214 May 30 j 15:39	0°♄	
	1211 Nov 18 j 13:18	0°♄		evening max el	1214 Jun 13 j 22:39	14°♄17'01 45°25'51	
	1211 Dec 12 j 18:16	0°♄		desc. node	1214 Jun 29 j 05:48	27°♄51'25	
	1212 Jan 05 j 19:41	0°♄			1214 Jul 01 j 22:57	0°♄	
desc. node	1212 Jan 12 j 10:44	8°♄16'24		greatest brilliancy	1214 Jul 22 j 19:51	12°♄08'59 -4.7m	
	1212 Jan 29 j 20:36	0°♁		retrograde	1214 Aug 01 j 12:40	13°♄50'17	
	1212 Feb 22 j 22:31	0°♁		evening set	1214 Aug 19 j 11:25	7°♄52'51	
morning set	1212 Feb 26 j 10:22	4°♁20'43		inferior conj	1214 Aug 22 j 18:26	5°♄52'16 -8°41'54	
	1212 Mar 18 j 02:23	0°♁		minimum elong	1214 Aug 22 j 16:40	5°♄55'00 8°41'52	
				min. Earth dist.	1214 Aug 23 j 08:05	5°♄31'08 0.28350 AU	
superior conj	1212 Apr 05 j 04:51	22°♁23'30 -1°02'26		morning rise	1214 Aug 25 j 21:44	3°♄56'47	
minimum elong	1212 Apr 05 j 14:45	22°♁54'03 1°02'06			1214 Sep 02 j 10:53	30°♄	
max. Earth dist.	1212 Apr 07 j 20:37	25°♁40'22 1.73030 AU		direct	1214 Sep 13 j 03:29	27°♄43'53	
	1212 Apr 11 j 08:48	0°♁		greatest brilliancy	1214 Sep 24 j 03:18	29°♄57'14 -4.8m	
asc. node	1212 May 04 j 14:14	28°♁35'23			1214 Sep 24 j 06:09	0°♄	
	1212 May 05 j 17:46	0°♄		asc. node	1214 Oct 20 j 09:09	17°♄48'02	
evening rise	1212 May 12 j 17:20	8°♄34'21			1214 Nov 02 j 03:32	0°♄	
	1212 May 30 j 04:57	0°♄		morning max el	1214 Nov 02 j 12:56	0°♄23'47 46°43'10	
	1212 Jun 23 j 18:10	0°♄			1214 Nov 29 j 18:22	0°♄	
	1212 Jul 18 j 10:15	0°♄			1214 Dec 25 j 08:13	0°♄	
	1212 Aug 12 j 07:03	0°♄			1215 Jan 19 j 04:19	0°♄	
desc. node	1212 Aug 24 j 03:23	14°♄10'05		desc. node	1215 Feb 08 j 22:29	25°♄21'13	
	1212 Sep 06 j 11:29	0°♄			1215 Feb 12 j 17:32	0°♁	
	1212 Oct 02 j 04:57	0°♄			1215 Mar 09 j 04:26	0°♁	
	1212 Oct 29 j 02:28	0°♄			1215 Apr 02 j 15:04	0°♁	
evening max el	1212 Nov 09 j 03:22	11°♄32'29 47°20'17			1215 Apr 27 j 02:10	0°♁	
	1212 Nov 28 j 22:35	0°♁		morning set	1215 May 08 j 02:31	13°♁30'15	
asc. node	1212 Dec 15 j 06:53	11°♁10'39			1215 May 21 j 13:26	0°♄	
greatest brilliancy	1212 Dec 19 j 16:28	13°♁08'04 -4.9m		asc. node	1215 Jun 02 j 02:06	14°♄08'41	
retrograde	1212 Dec 30 j 02:12	15°♁12'23		max. Earth dist.	1215 Jun 12 j 06:03	26°♄37'37 1.73597 AU	
evening set	1213 Jan 15 j 07:41	9°♁57'22					
min. Earth dist.	1213 Jan 18 j 20:24	7°♁48'55 0.27139 AU		superior conj	1215 Jun 13 j 16:44	28°♄24'09 0°27'07	
inferior conj	1213 Jan 19 j 19:25	7°♁13'11 7°35'08		minimum elong	1215 Jun 13 j 11:30	28°♄08'02 0°26'52	
minimum elong	1213 Jan 19 j 10:14	7°♁27'27 7°33'38			1215 Jun 14 j 23:57	0°♄	
morning rise	1213 Jan 23 j 13:12	4°♁56'23			1215 Jul 09 j 08:58	0°♄	
	1213 Feb 04 j 04:16	30°♄		evening rise	1215 Jul 19 j 11:22	12°♄27'02	
direct	1213 Feb 09 j 08:38	29°♄26'50			1215 Aug 02 j 16:39	0°♄	

	1215 Aug 27 j 00:03	0°♄			1218 Apr 16 j 09:44	0°♃		
	1215 Sep 20 j 08:27	0°♍			1218 May 11 j 08:58	0°♄		
desc. node	1215 Sep 21 j 15:22	1°♍35'04			1218 Jun 05 j 04:14	0°♂		
	1215 Oct 14 j 19:01	0°♂		asc. node	1218 Jun 29 j 13:52	29°♂43'39		
	1215 Nov 08 j 09:33	0°♄			1218 Jun 29 j 19:13	0°♄		
	1215 Dec 03 j 08:50	0°♂		morning set	1218 Jul 14 j 15:42	18°♄12'48		
	1215 Dec 29 j 05:34	0°♂			1218 Jul 24 j 05:23	0°♄		
asc. node	1216 Jan 12 j 18:40	15°♂56'11		max. Earth dist.	1218 Aug 16 j 16:29	29°♄02'39	1.72593 AU	
evening max el	1216 Jan 20 j 19:20	24°♂15'55	46°47'13		1218 Aug 17 j 10:57	0°♄		
	1216 Jan 26 j 14:22	0°♃						
greatest brilliancy	1216 Feb 29 j 14:24	24°♃55'27	-4.8m	superior conj	1218 Aug 20 j 04:04	3°♄22'17	1°24'07	
retrograde	1216 Mar 11 j 03:48	27°♃00'40		minimum elong	1218 Aug 20 j 01:54	3°♄15'33	1°24'07	
evening set	1216 Mar 28 j 01:50	21°♃27'42			1218 Sep 10 j 13:13	0°♄		
inferior conj	1216 Apr 01 j 10:32	18°♃45'07	6°39'20	evening rise	1218 Sep 26 j 18:19	20°♄14'18		
minimum elong	1216 Apr 01 j 20:07	18°♃29'56	6°37'32		1218 Oct 04 j 13:53	0°♍		
min. Earth dist.	1216 Apr 01 j 09:48	18°♃46'17	0.28578 AU	desc. node	1218 Oct 19 j 03:23	18°♍11'20		
morning rise	1216 Apr 06 j 14:40	15°♃34'24			1218 Oct 28 j 14:19	0°♂		
direct	1216 Apr 22 j 17:05	10°♃33'57			1218 Nov 21 j 15:30	0°♄		
greatest brilliancy	1216 May 02 j 11:59	12°♃18'14	-4.7m		1218 Dec 15 j 18:53	0°♂		
desc. node	1216 May 03 j 07:55	12°♃35'50			1219 Jan 09 j 03:40	0°♂		
	1216 May 30 j 00:40	0°♄			1219 Feb 03 j 00:06	0°♃		
morning max el	1216 Jun 10 j 11:37	10°♄23'31	45°44'43	asc. node	1219 Feb 09 j 06:30	7°♃24'50		
	1216 Jun 29 j 21:49	0°♂			1219 Feb 28 j 19:50	0°♄		
	1216 Jul 27 j 04:09	0°♄			1219 Mar 28 j 19:06	0°♂		
	1216 Aug 21 j 23:08	0°♄		evening max el	1219 Apr 01 j 20:00	3°♂59'00	45°39'34	
asc. node	1216 Aug 24 j 11:30	2°♄59'20			1219 May 05 j 01:19	0°♄		
	1216 Sep 15 j 21:01	0°♄		greatest brilliancy	1219 May 09 j 15:17	2°♄01'09	-4.7m	
	1216 Oct 10 j 05:26	0°♄		retrograde	1219 May 20 j 16:28	4°♄12'52		
	1216 Nov 03 j 06:05	0°♍		desc. node	1219 May 31 j 19:55	1°♄45'03		
	1216 Nov 27 j 03:14	0°♂			1219 Jun 04 j 09:55	30°♄		
morning set	1216 Dec 08 j 00:21	13°♂41'10		evening set	1219 Jun 04 j 17:21	29°♂49'55		
desc. node	1216 Dec 14 j 00:53	21°♂15'52		inferior conj	1219 Jun 11 j 03:26	25°♂59'28	-2°23'39	
	1216 Dec 20 j 23:34	0°♄		minimum elong	1219 Jun 10 j 22:19	26°♂07'28	2°22'11	
	1217 Jan 13 j 20:37	0°♂		min. Earth dist.	1219 Jun 11 j 02:54	26°♂00'18	0.28980 AU	
				morning rise	1219 Jun 17 j 03:19	22°♂23'05		
superior conj	1217 Jan 18 j 21:13	6°♂18'16	-1°12'09	direct	1219 Jul 02 j 19:25	17°♂41'36		
minimum elong	1217 Jan 18 j 10:21	5°♂44'10	1°11'51	greatest brilliancy	1219 Jul 13 j 06:39	19°♂40'01	-4.7m	
max. Earth dist.	1217 Jan 22 j 07:19	10°♂35'31	1.71451 AU		1219 Jul 31 j 07:13	0°♄		
	1217 Feb 06 j 19:30	0°♂		morning max el	1219 Aug 20 j 22:15	17°♄56'31	45°59'36	
evening rise	1217 Feb 28 j 09:19	26°♂53'11			1219 Sep 01 j 21:24	0°♄		
	1217 Mar 02 j 21:30	0°♃		asc. node	1219 Sep 21 j 23:29	21°♄53'47		
	1217 Mar 27 j 03:54	0°♄			1219 Sep 29 j 02:06	0°♄		
asc. node	1217 Apr 06 j 04:28	12°♄18'34			1219 Oct 24 j 11:56	0°♄		
	1217 Apr 20 j 15:56	0°♂			1219 Nov 18 j 01:41	0°♍		
	1217 May 15 j 10:50	0°♄			1219 Dec 12 j 06:14	0°♂		
	1217 Jun 09 j 14:52	0°♄			1220 Jan 05 j 07:23	0°♄		
	1217 Jul 05 j 08:59	0°♄		desc. node	1220 Jan 11 j 12:43	7°♄46'17		
desc. node	1217 Jul 26 j 17:27	24°♄01'20			1220 Jan 29 j 08:04	0°♂		
	1217 Aug 01 j 04:51	0°♄			1220 Feb 22 j 09:46	0°♂		
evening max el	1217 Aug 25 j 14:24	25°♄13'31	46°23'44	morning set	1220 Feb 23 j 22:48	1°♂55'10		
	1217 Aug 30 j 14:45	0°♍			1220 Mar 17 j 13:29	0°♃		
greatest brilliancy	1217 Oct 05 j 02:23	24°♍49'18	-4.9m					
retrograde	1217 Oct 14 j 07:05	26°♍24'19		superior conj	1220 Apr 02 j 20:07	20°♃08'19	-1°04'45	
evening set	1217 Oct 29 j 07:09	22°♍01'46		minimum elong	1220 Apr 03 j 06:00	20°♃38'50	1°04'26	
inferior conj	1217 Nov 03 j 21:42	18°♍45'32	-3°16'53	max. Earth dist.	1220 Apr 05 j 16:56	23°♃40'50	1.72984 AU	
minimum elong	1217 Nov 04 j 04:50	18°♍34'44	3°14'44		1220 Apr 10 j 19:49	0°♄		
min. Earth dist.	1217 Nov 04 j 09:31	18°♍27'38	0.26589 AU	asc. node	1220 May 03 j 16:18	28°♄07'53		
morning rise	1217 Nov 10 j 01:59	15°♍09'48			1220 May 05 j 04:48	0°♂		
asc. node	1217 Nov 16 j 20:58	12°♍14'27		evening rise	1220 May 10 j 11:00	6°♂27'28		
direct	1217 Nov 24 j 09:12	11°♍04'13			1220 May 29 j 16:04	0°♄		
greatest brilliancy	1217 Dec 05 j 01:41	13°♍14'12	-4.9m		1220 Jun 23 j 05:31	0°♄		
	1217 Dec 29 j 23:17	0°♂			1220 Jul 17 j 22:00	0°♄		
morning max el	1218 Jan 14 j 00:48	14°♂20'25	46°54'17		1220 Aug 11 j 19:30	0°♄		
	1218 Jan 28 j 21:47	0°♄		desc. node	1220 Aug 23 j 05:30	13°♄37'58		
	1218 Feb 24 j 13:45	0°♂			1220 Sep 06 j 01:05	0°♍		
desc. node	1218 Mar 08 j 10:29	13°♂47'32			1220 Oct 01 j 20:33	0°♂		
	1218 Mar 22 j 05:02	0°♂			1220 Oct 28 j 22:29	0°♄		

evening max el	1220 Nov 06 j 18:24	9° Z 10'24	47°19'28		1223 Apr 26 j 13:12	0° B	
	1220 Nov 29 j 13:15	0° \approx		morning set	1223 May 05 j 19:51	11° B 22'41	
asc. node	1220 Dec 14 j 08:50	9° \approx 27'51			1223 May 21 j 00:17	0° II	
greatest brilliancy	1220 Dec 17 j 06:29	10° \approx 41'23	-4.9m	asc. node	1223 Jun 01 j 04:03	13° II 41'29	
retrograde	1220 Dec 27 j 15:53	12° \approx 44'55		max. Earth dist.	1223 Jun 10 j 01:55	24° II 38'05	1.73606 AU
evening set	1221 Jan 12 j 17:14	7° \approx 36'31					
min. Earth dist.	1221 Jan 16 j 09:32	5° \approx 22'45	0.27079 AU	superior conj	1223 Jun 11 j 10:57	26° II 19'31	0°24'07
inferior conj	1221 Jan 17 j 08:35	4° \approx 46'55	7°23'01	minimum elong	1223 Jun 11 j 06:13	26° II 04'59	0°23'54
minimum elong	1221 Jan 16 j 23:02	5° \approx 01'46	7°21'22		1223 Jun 14 j 10:43	0° E	
morning rise	1221 Jan 21 j 05:18	2° \approx 25'49			1223 Jul 08 j 19:48	0° Ω	
	1221 Jan 25 j 18:25	30° R Z		evening rise	1223 Jul 17 j 05:52	10° Ω 22'34	
direct	1221 Feb 06 j 21:40	27° Z 01'50			1223 Aug 02 j 03:40	0° np	
greatest brilliancy	1221 Feb 15 j 19:19	28° Z 32'09	-4.9m		1223 Aug 26 j 11:21	0° A	
	1221 Feb 19 j 14:51	0° \approx			1223 Sep 19 j 20:07	0° M	
morning max el	1221 Mar 28 j 11:38	28° \approx 24'51	46°16'14	desc. node	1223 Sep 20 j 17:30	1° M 05'42	
	1221 Mar 30 j 02:24	0° H			1223 Oct 14 j 07:10	0° X	
desc. node	1221 Apr 04 j 22:18	5° H 50'54			1223 Nov 07 j 22:25	0° Z	
	1221 Apr 27 j 14:22	0° Y			1223 Dec 02 j 22:56	0° \approx	
	1221 May 24 j 04:21	0° B			1223 Dec 28 j 22:13	0° H	
	1221 Jun 18 j 22:00	0° II		asc. node	1224 Jan 11 j 20:41	15° H 10'16	
	1221 Jul 14 j 02:26	0° E		evening max el	1224 Jan 18 j 09:06	21° H 54'35	46°49'28
asc. node	1221 Jul 27 j 01:40	15° E 40'06			1224 Jan 26 j 15:00	0° Y	
	1221 Aug 07 j 20:02	0° Ω		greatest brilliancy	1224 Feb 27 j 06:47	22° Y 42'01	-4.8m
	1221 Sep 01 j 04:33	0° np		retrograde	1224 Mar 08 j 19:42	24° Y 47'28	
morning set	1221 Sep 22 j 01:54	26° np 00'39		evening set	1224 Mar 25 j 20:29	19° Y 10'00	
	1221 Sep 25 j 06:29	0° A		inferior conj	1224 Mar 30 j 02:22	16° Y 31'54	6°52'21
	1221 Oct 19 j 04:39	0° M		minimum elong	1224 Mar 30 j 11:49	16° Y 16'57	6°50'39
max. Earth dist.	1221 Oct 29 j 17:23	13° M 14'11	1.71225 AU	min. Earth dist.	1224 Mar 30 j 01:17	16° Y 33'37	0.28554 AU
				morning rise	1224 Apr 04 j 03:23	13° Y 25'51	
superior conj	1221 Oct 31 j 00:15	14° M 51'10	0°36'09	direct	1224 Apr 20 j 07:58	8° Y 20'58	
minimum elong	1221 Oct 31 j 08:38	15° M 17'31	0°35'46	greatest brilliancy	1224 Apr 30 j 03:02	10° Y 05'30	-4.7m
	1221 Nov 12 j 01:20	0° X		desc. node	1224 May 02 j 09:58	10° Y 56'52	
desc. node	1221 Nov 15 j 15:10	4° X 29'55			1224 May 30 j 04:51	0° B	
	1221 Dec 05 j 21:56	0° Z		morning max el	1224 Jun 08 j 03:15	8° B 12'19	45°45'07
evening rise	1221 Dec 11 j 07:20	6° Z 46'25			1224 Jun 29 j 14:52	0° II	
	1221 Dec 29 j 19:33	0° \approx			1224 Jul 26 j 18:00	0° E	
	1222 Jan 22 j 19:45	0° H			1224 Aug 21 j 11:34	0° Ω	
	1222 Feb 16 j 01:04	0° Y		asc. node	1224 Aug 23 j 13:41	2° Ω 29'05	
asc. node	1222 Mar 08 j 18:35	25° Y 20'32			1224 Sep 15 j 08:45	0° np	
	1222 Mar 12 j 14:52	0° B			1224 Oct 09 j 16:49	0° A	
	1222 Apr 06 j 17:45	0° II			1224 Nov 02 j 17:17	0° M	
	1222 May 02 j 17:38	0° E			1224 Nov 26 j 14:19	0° X	
	1222 May 30 j 10:22	0° Ω		morning set	1224 Dec 05 j 10:35	11° X 07'39	
evening max el	1222 Jun 11 j 12:25	12° Ω 00'26	45°24'57	desc. node	1224 Dec 13 j 02:54	20° X 47'29	
desc. node	1222 Jun 28 j 07:44	26° Ω 47'40			1224 Dec 20 j 10:33	0° Z	
	1222 Jul 02 j 13:08	0° np			1225 Jan 13 j 07:32	0° \approx	
greatest brilliancy	1222 Jul 20 j 09:30	9° np 53'46	-4.7m				
retrograde	1222 Jul 30 j 02:39	11° np 35'47		superior conj	1225 Jan 16 j 07:45	3° \approx 46'35	-1°09'56
evening set	1222 Aug 17 j 00:18	5° np 40'42		minimum elong	1225 Jan 15 j 20:26	3° \approx 11'06	1°09'37
inferior conj	1222 Aug 20 j 09:23	3° np 37'06	-8°39'21	max. Earth dist.	1225 Jan 19 j 13:57	7° \approx 51'46	1.71409 AU
minimum elong	1222 Aug 20 j 06:48	3° np 41'07	8°39'15		1225 Feb 06 j 06:22	0° H	
min. Earth dist.	1222 Aug 20 j 22:36	3° np 16'38	0.28398 AU	evening rise	1225 Feb 25 j 22:00	24° H 29'46	
morning rise	1222 Aug 23 j 13:04	1° np 40'58			1225 Mar 02 j 08:21	0° Y	
	1222 Aug 26 j 10:46	30° R Ω			1225 Mar 26 j 14:51	0° B	
direct	1222 Sep 10 j 18:20	25° Ω 27'52		asc. node	1225 Apr 05 j 06:28	11° B 50'56	
greatest brilliancy	1222 Sep 21 j 19:01	27° Ω 41'25	-4.8m		1225 Apr 20 j 03:07	0° II	
	1222 Sep 26 j 20:10	0° np			1225 May 14 j 22:28	0° E	
asc. node	1222 Oct 19 j 11:09	16° np 48'17			1225 Jun 09 j 03:19	0° Ω	
morning max el	1222 Oct 31 j 02:26	28° np 00'30	46°42'04		1225 Jul 04 j 22:57	0° np	
	1222 Nov 02 j 01:22	0° A		desc. node	1225 Jul 25 j 19:37	23° np 22'48	
	1222 Nov 29 j 10:21	0° M			1225 Jul 31 j 22:00	0° A	
	1222 Dec 24 j 22:02	0° X		evening max el	1225 Aug 23 j 03:58	22° A 52'56	46°21'14
	1223 Jan 18 j 17:02	0° Z			1225 Aug 30 j 17:34	0° M	
desc. node	1223 Feb 08 j 00:36	24° Z 50'30		greatest brilliancy	1225 Oct 02 j 14:19	22° M 22'01	-4.9m
	1223 Feb 12 j 05:36	0° \approx		retrograde	1225 Oct 11 j 19:36	23° M 57'03	
	1223 Mar 08 j 16:04	0° H		evening set	1225 Oct 26 j 21:47	19° M 30'50	
	1223 Apr 02 j 02:22	0° Y		inferior conj	1225 Nov 01 j 09:50	16° M 17'48	-3°39'22

minimum elong	1225 Nov 01 j 17:39	16° \mathbb{M} 05'58	3°37'03			1228 Apr 10 j 06:25	0° \mathcal{B}	
min. Earth dist.	1225 Nov 01 j 22:35	15° \mathbb{M} 58'30	0.26631 AU	asc. node		1228 May 02 j 18:17	27° \mathcal{B} 41'25	
morning rise	1225 Nov 07 j 13:03	12° \mathbb{M} 43'48				1228 May 04 j 15:24	0° \mathbb{I}	
asc. node	1225 Nov 15 j 22:58	9° \mathbb{M} 20'25		evening rise		1228 May 08 j 04:47	4° \mathbb{I} 22'10	
direct	1225 Nov 21 j 22:30	8° \mathbb{M} 35'50				1228 May 29 j 02:46	0° \mathcal{E}	
greatest brilliancy	1225 Dec 02 j 15:12	10° \mathbb{M} 46'34	-4.9m			1228 Jun 22 j 16:29	0° \mathcal{O}	
	1225 Dec 30 j 06:03	0° \mathcal{A}				1228 Jul 17 j 09:28	0° \mathbb{M}	
morning max el	1226 Jan 11 j 15:19	11° \mathcal{A} 57'53	46°55'02			1228 Aug 11 j 07:44	0° \mathcal{A}	
	1226 Jan 28 j 16:07	0° \mathcal{B}		desc. node		1228 Aug 22 j 07:34	13° \mathcal{A} 06'23	
	1226 Feb 24 j 04:26	0° \mathcal{A}				1228 Sep 05 j 14:32	0° \mathbb{M}	
desc. node	1226 Mar 07 j 12:37	13° \mathcal{A} 13'33				1228 Oct 01 j 12:06	0° \mathcal{A}	
	1226 Mar 21 j 17:58	0° \mathcal{H}				1228 Oct 28 j 18:48	0° \mathcal{B}	
	1226 Apr 15 j 21:41	0° \mathcal{Y}		evening max el		1228 Nov 04 j 08:22	6° \mathcal{B} 46'26	47°18'43
	1226 May 10 j 20:18	0° \mathcal{B}				1228 Nov 30 j 08:15	0° \mathcal{A}	
	1226 Jun 04 j 15:11	0° \mathbb{I}		asc. node		1228 Dec 13 j 10:54	7° \mathcal{A} 42'14	
asc. node	1226 Jun 28 j 15:55	29° \mathbb{I} 17'00		greatest brilliancy		1228 Dec 14 j 21:04	8° \mathcal{A} 16'18	-4.9m
	1226 Jun 29 j 05:59	0° \mathcal{E}		retrograde		1228 Dec 25 j 05:05	10° \mathcal{A} 18'25	
morning set	1226 Jul 12 j 09:31	16° \mathcal{E} 07'12		evening set		1229 Jan 10 j 02:49	5° \mathcal{A} 16'33	
	1226 Jul 23 j 16:03	0° \mathcal{O}		min. Earth dist.		1229 Jan 13 j 23:04	2° \mathcal{A} 57'05	0.27017 AU
max. Earth dist.	1226 Aug 14 j 09:29	26° \mathcal{O} 53'19	1.72642 AU	inferior conj		1229 Jan 14 j 21:46	2° \mathcal{A} 21'47	7°10'03
	1226 Aug 16 j 21:37	0° \mathbb{M}		minimum elong		1229 Jan 14 j 11:54	2° \mathcal{A} 37'08	7°08'13
				morning rise		1229 Jan 18 j 21:27	29° \mathcal{B} 56'14	
superior conj	1226 Aug 17 j 21:02	1° \mathbb{M} 12'42	1°23'40			1229 Jan 18 j 18:52	30° \mathcal{R} \mathcal{B}	
minimum elong	1226 Aug 17 j 18:11	1° \mathbb{M} 03'50	1°23'38	direct		1229 Feb 04 j 10:09	24° \mathcal{B} 37'44	
	1226 Sep 09 j 23:59	0° \mathcal{A}		greatest brilliancy		1229 Feb 13 j 08:47	26° \mathcal{B} 08'31	-4.9m
evening rise	1226 Sep 24 j 08:12	17° \mathcal{A} 53'52				1229 Feb 21 j 22:25	0° \mathcal{A}	
	1226 Oct 04 j 00:49	0° \mathbb{M}		morning max el		1229 Mar 25 j 23:59	26° \mathcal{A} 01'39	46°17'51
desc. node	1226 Oct 18 j 05:20	17° \mathbb{M} 42'53				1229 Mar 30 j 00:17	0° \mathcal{H}	
	1226 Oct 28 j 01:29	0° \mathcal{A}		desc. node		1229 Apr 04 j 00:14	5° \mathcal{H} 04'26	
	1226 Nov 21 j 02:56	0° \mathcal{B}				1229 Apr 27 j 06:00	0° \mathcal{Y}	
	1226 Dec 15 j 06:37	0° \mathcal{A}				1229 May 23 j 17:35	0° \mathcal{B}	
	1227 Jan 08 j 15:52	0° \mathcal{H}				1229 Jun 18 j 10:00	0° \mathbb{I}	
	1227 Feb 02 j 13:10	0° \mathcal{Y}				1229 Jul 13 j 13:45	0° \mathcal{E}	
asc. node	1227 Feb 08 j 08:41	6° \mathcal{Y} 51'54		asc. node		1229 Jul 26 j 03:50	15° \mathcal{E} 12'59	
	1227 Feb 28 j 10:50	0° \mathcal{B}				1229 Aug 07 j 06:59	0° \mathcal{O}	
	1227 Mar 28 j 15:36	0° \mathbb{I}				1229 Aug 31 j 15:22	0° \mathbb{M}	
evening max el	1227 Mar 30 j 12:32	1° \mathbb{I} 50'06	45°41'19	morning set		1229 Sep 19 j 16:46	23° \mathbb{M} 43'21	
greatest brilliancy	1227 May 07 j 07:50	29° \mathbb{I} 53'48	-4.7m			1229 Sep 24 j 17:17	0° \mathcal{A}	
	1227 May 07 j 14:28	0° \mathcal{E}				1229 Oct 18 j 15:30	0° \mathbb{M}	
retrograde	1227 May 18 j 09:03	2° \mathcal{E} 05'12		max. Earth dist.		1229 Oct 26 j 23:26	10° \mathbb{M} 28'12	1.71258 AU
	1227 May 28 j 15:08	30° \mathcal{R} \mathbb{I}						
desc. node	1227 May 30 j 21:53	28° \mathbb{I} 59'39		superior conj		1229 Oct 28 j 11:56	12° \mathbb{M} 22'53	0°39'35
evening set	1227 Jun 02 j 09:34	27° \mathbb{I} 42'58		minimum elong		1229 Oct 28 j 20:52	12° \mathbb{M} 50'57	0°39'10
inferior conj	1227 Jun 08 j 19:55	23° \mathbb{I} 51'38	-2°04'33			1229 Nov 11 j 12:15	0° \mathcal{A}	
minimum elong	1227 Jun 08 j 15:26	23° \mathbb{I} 58'39	2°03'17	desc. node		1229 Nov 14 j 17:11	4° \mathcal{A} 01'55	
min. Earth dist.	1227 Jun 08 j 19:16	23° \mathbb{I} 52'39	0.28978 AU			1229 Dec 05 j 08:54	0° \mathcal{B}	
morning rise	1227 Jun 14 j 21:25	20° \mathbb{I} 12'49		evening rise		1229 Dec 08 j 17:07	4° \mathcal{B} 11'56	
direct	1227 Jun 30 j 12:21	15° \mathbb{I} 33'59				1229 Dec 29 j 06:36	0° \mathcal{A}	
greatest brilliancy	1227 Jul 10 j 22:04	17° \mathbb{I} 31'04	-4.7m			1230 Jan 22 j 06:56	0° \mathcal{H}	
	1227 Jul 31 j 18:38	0° \mathcal{E}				1230 Feb 15 j 12:28	0° \mathcal{Y}	
morning max el	1227 Aug 18 j 13:45	15° \mathcal{E} 45'05	45°58'15	asc. node		1230 Mar 07 j 20:34	24° \mathcal{Y} 51'03	
	1227 Sep 01 j 15:28	0° \mathcal{O}				1230 Mar 12 j 02:41	0° \mathcal{B}	
asc. node	1227 Sep 21 j 01:30	21° \mathcal{O} 17'09				1230 Apr 06 j 06:23	0° \mathbb{I}	
	1227 Sep 28 j 16:23	0° \mathbb{M}				1230 May 02 j 08:00	0° \mathcal{E}	
	1227 Oct 24 j 00:41	0° \mathcal{A}				1230 May 30 j 05:09	0° \mathcal{O}	
	1227 Nov 17 j 13:41	0° \mathbb{M}		evening max el		1230 Jun 09 j 02:16	9° \mathcal{O} 45'22	45°24'15
	1227 Dec 11 j 17:49	0° \mathcal{A}		desc. node		1230 Jun 27 j 09:53	25° \mathcal{O} 44'00	
	1228 Jan 04 j 18:41	0° \mathcal{B}				1230 Jul 03 j 07:19	0° \mathbb{M}	
desc. node	1228 Jan 10 j 14:47	7° \mathcal{B} 17'40		greatest brilliancy		1230 Jul 17 j 22:42	7° \mathbb{M} 39'35	-4.7m
	1228 Jan 28 j 19:08	0° \mathcal{A}		retrograde		1230 Jul 27 j 17:16	9° \mathbb{M} 23'08	
morning set	1228 Feb 21 j 11:12	29° \mathcal{A} 30'37		evening set		1230 Aug 14 j 12:59	3° \mathbb{M} 30'32	
	1228 Feb 21 j 20:38	0° \mathcal{H}		inferior conj		1230 Aug 18 j 00:30	1° \mathbb{M} 23'28	-8°35'49
	1228 Mar 17 j 00:11	0° \mathcal{Y}		minimum elong		1230 Aug 17 j 21:07	1° \mathbb{M} 28'42	8°35'39
				min. Earth dist.		1230 Aug 18 j 13:05	1° \mathbb{M} 04'00	0.28451 AU
superior conj	1228 Mar 31 j 11:32	17° \mathcal{Y} 54'44	-1°06'57			1230 Aug 20 j 06:41	30° \mathcal{R} \mathcal{O}	
minimum elong	1228 Mar 31 j 21:19	18° \mathcal{Y} 25'01	1°06'39	morning rise		1230 Aug 21 j 05:02	29° \mathcal{O} 26'07	
max. Earth dist.	1228 Apr 03 j 13:51	21° \mathcal{Y} 44'20	1.72933 AU	direct		1230 Sep 08 j 09:31	23° \mathcal{O} 13'15	

greatest brilliancy	1230 Sep 19 j 10:56	25°♎27'12	-4.8m		1233 Apr 19 j 14:26	0°♐	
	1230 Sep 28 j 10:18	0°♏			1233 May 14 j 10:15	0°♍	
asc. node	1230 Oct 18 j 13:10	15°♏50'30			1233 Jun 08 j 15:56	0°♎	
morning max el	1230 Oct 28 j 16:59	25°♏40'29	46°40'44		1233 Jul 04 j 13:08	0°♏	
	1230 Nov 01 j 22:15	0°♎		desc. node	1233 Jul 24 j 21:42	22°♏43'34	
	1230 Nov 29 j 02:02	0°♍			1233 Jul 31 j 15:32	0°♎	
	1230 Dec 24 j 11:41	0°♌		evening max el	1233 Aug 20 j 18:26	20°♎34'48	46°18'46
	1231 Jan 18 j 05:36	0°♋			1233 Aug 30 j 21:58	0°♍	
desc. node	1231 Feb 07 j 02:45	24°♋20'14		greatest brilliancy	1233 Sep 30 j 02:37	19°♍56'10	-4.9m
	1231 Feb 11 j 17:29	0°♊		retrograde	1233 Oct 09 j 08:16	21°♍30'49	
	1231 Mar 08 j 03:29	0°♑		evening set	1233 Oct 24 j 12:55	17°♍01'05	
	1231 Apr 01 j 13:27	0°♒		inferior conj	1233 Oct 29 j 22:20	13°♍51'16	-4°00'59
	1231 Apr 26 j 00:02	0°♑		minimum elong	1233 Oct 30 j 06:45	13°♍38'30	3°58'33
morning set	1231 May 03 j 13:15	9°♑15'50		min. Earth dist.	1233 Oct 30 j 11:52	13°♍30'45	0.26675 AU
	1231 May 20 j 10:57	0°♐		morning rise	1233 Nov 05 j 00:11	10°♍19'01	
asc. node	1231 May 31 j 06:10	13°♐15'18		asc. node	1233 Nov 15 j 01:02	6°♍33'31	
max. Earth dist.	1231 Jun 07 j 23:09	22°♐43'18	1.73612 AU	direct	1233 Nov 19 j 12:11	6°♍08'47	
				greatest brilliancy	1233 Nov 30 j 04:42	8°♍19'28	-4.9m
superior conj	1231 Jun 09 j 05:25	24°♐16'14	0°21'06		1233 Dec 30 j 10:47	0°♌	
minimum elong	1231 Jun 09 j 01:13	24°♐03'22	0°20'54	morning max el	1234 Jan 09 j 05:31	9°♌34'09	46°55'21
	1231 Jun 13 j 21:20	0°♍			1234 Jan 28 j 10:13	0°♋	
	1231 Jul 08 j 06:27	0°♎			1234 Feb 23 j 19:14	0°♊	
evening rise	1231 Jul 15 j 00:50	8°♎20'12		desc. node	1234 Mar 06 j 14:32	12°♊38'11	
	1231 Aug 01 j 14:30	0°♏			1234 Mar 21 j 07:09	0°♑	
	1231 Aug 25 j 22:28	0°♎			1234 Apr 15 j 09:53	0°♒	
	1231 Sep 19 j 07:40	0°♍			1234 May 10 j 07:53	0°♑	
desc. node	1231 Sep 19 j 19:29	0°♌36'18			1234 Jun 04 j 02:22	0°♐	
	1231 Oct 13 j 19:17	0°♌		asc. node	1234 Jun 27 j 18:02	28°♐49'57	
	1231 Nov 07 j 11:22	0°♋			1234 Jun 28 j 16:56	0°♍	
	1231 Dec 02 j 13:14	0°♊		morning set	1234 Jul 10 j 03:26	14°♍01'25	
	1231 Dec 28 j 15:18	0°♑			1234 Jul 23 j 02:55	0°♎	
asc. node	1232 Jan 10 j 22:51	14°♑23'47		max. Earth dist.	1234 Aug 12 j 00:58	24°♎38'45	1.72690 AU
evening max el	1232 Jan 15 j 23:42	19°♑35'04	46°51'54				
	1232 Jan 26 j 17:04	0°♒		superior conj	1234 Aug 15 j 14:23	29°♎03'48	1°23'05
greatest brilliancy	1232 Feb 24 j 22:42	20°♒27'46	-4.8m	minimum elong	1234 Aug 15 j 10:53	28°♎52'54	1°23'04
retrograde	1232 Mar 06 j 12:11	22°♒34'00			1234 Aug 16 j 08:30	0°♏	
evening set	1232 Mar 23 j 15:04	16°♒52'01			1234 Sep 09 j 10:57	0°♎	
inferior conj	1232 Mar 27 j 18:08	14°♒18'18	7°04'44	evening rise	1234 Sep 21 j 22:39	15°♎34'37	
minimum elong	1232 Mar 28 j 03:24	14°♒03'41	7°03'09		1234 Oct 03 j 11:57	0°♍	
min. Earth dist.	1232 Mar 27 j 16:17	14°♒21'14	0.28523 AU	desc. node	1234 Oct 17 j 07:24	17°♍14'15	
morning rise	1232 Apr 01 j 15:57	11°♒17'15			1234 Oct 27 j 12:49	0°♌	
direct	1232 Apr 17 j 23:07	6°♒07'47			1234 Nov 20 j 14:31	0°♋	
greatest brilliancy	1232 Apr 27 j 17:21	7°♒52'01	-4.7m		1234 Dec 14 j 18:33	0°♊	
desc. node	1232 May 01 j 12:01	9°♒21'25			1235 Jan 08 j 04:21	0°♑	
	1232 May 30 j 07:18	0°♑			1235 Feb 02 j 02:40	0°♒	
morning max el	1232 Jun 05 j 19:43	6°♑03'19	45°45'35	asc. node	1235 Feb 07 j 10:37	6°♒17'02	
	1232 Jun 29 j 07:29	0°♐			1235 Feb 28 j 02:28	0°♑	
	1232 Jul 26 j 07:38	0°♍		evening max el	1235 Mar 28 j 04:32	29°♑38'21	45°43'05
	1232 Aug 20 j 23:52	0°♎			1235 Mar 28 j 13:26	0°♐	
asc. node	1232 Aug 22 j 15:38	1°♎58'28		greatest brilliancy	1235 May 05 j 01:01	27°♐45'42	-4.7m
	1232 Sep 14 j 20:24	0°♏		retrograde	1235 May 16 j 01:12	29°♐56'12	
	1232 Oct 09 j 04:08	0°♎		desc. node	1235 May 30 j 00:00	26°♐09'00	
	1232 Nov 02 j 04:27	0°♍		evening set	1235 May 31 j 01:56	25°♐34'28	
	1232 Nov 26 j 01:25	0°♌		inferior conj	1235 Jun 06 j 12:24	21°♐42'42	-1°45'22
morning set	1232 Dec 02 j 20:55	8°♌34'11		minimum elong	1235 Jun 06 j 08:35	21°♐48'41	1°44'16
desc. node	1232 Dec 12 j 05:03	20°♌19'18		min. Earth dist.	1235 Jun 06 j 11:58	21°♐43'22	0.28972 AU
	1232 Dec 19 j 21:39	0°♋		morning rise	1235 Jun 12 j 15:19	18°♐01'28	
	1233 Jan 12 j 18:36	0°♊		direct	1235 Jun 28 j 04:46	13°♐25'16	
				greatest brilliancy	1235 Jul 08 j 13:45	15°♐21'20	-4.7m
superior conj	1233 Jan 13 j 17:42	1°♊12'29	-1°07'33		1235 Aug 01 j 03:28	0°♍	
minimum elong	1233 Jan 13 j 06:04	0°♊36'00	1°07'12	morning max el	1235 Aug 16 j 04:29	13°♍30'58	45°57'01
max. Earth dist.	1233 Jan 16 j 21:15	5°♊09'27	1.71374 AU		1235 Sep 01 j 09:24	0°♎	
	1233 Feb 05 j 17:25	0°♑		asc. node	1235 Sep 20 j 03:29	20°♎39'56	
evening rise	1233 Feb 23 j 10:03	22°♑03'49			1235 Sep 28 j 06:47	0°♏	
	1233 Mar 01 j 19:22	0°♒			1235 Oct 23 j 13:37	0°♎	
	1233 Mar 26 j 01:56	0°♑			1235 Nov 17 j 01:54	0°♍	
asc. node	1233 Apr 04 j 08:28	11°♑22'52			1235 Dec 11 j 05:37	0°♌	

	1236 Jan 04 j 06:12	0° Z			1238 Jul 04 j 09:04	0° M	
desc. node	1236 Jan 09 j 16:54	6° Z 48'28		greatest brilliancy	1238 Jul 15 j 11:22	5° M 23'32	-4.7m
	1236 Jan 28 j 06:26	0° \approx		retrograde	1238 Jul 25 j 08:20	7° M 09'08	
morning set	1236 Feb 18 j 23:31	27° \approx 04'54		evening set	1238 Aug 12 j 01:19	1° M 19'29	
	1236 Feb 21 j 07:47	0° H			1238 Aug 14 j 06:07	30° R 02	
	1236 Mar 16 j 11:14	0° Y		inferior conj	1238 Aug 15 j 15:33	29° O 08'31	-8°31'30
				minimum elong	1238 Aug 15 j 11:24	29° O 14'56	8°31'16
superior conj	1236 Mar 29 j 02:43	15° Y 39'18	-1°09'04	min. Earth dist.	1238 Aug 16 j 03:12	28° O 50'32	0.28499 AU
minimum elong	1236 Mar 29 j 12:22	16° Y 09'09	1°08'48	morning rise	1238 Aug 18 j 21:15	27° O 09'35	
max. Earth dist.	1236 Apr 01 j 08:38	19° Y 40'08	1.72885 AU	direct	1238 Sep 06 j 01:01	20° O 57'31	
	1236 Apr 09 j 17:25	0° B		greatest brilliancy	1238 Sep 17 j 02:18	23° O 11'29	-4.8m
asc. node	1236 May 01 j 20:24	27° B 14'11			1238 Sep 29 j 13:33	0° M	
	1236 May 04 j 02:24	0° II		asc. node	1238 Oct 17 j 15:21	14° M 53'27	
evening rise	1236 May 05 j 22:07	2° II 14'13		morning max el	1238 Oct 26 j 08:23	23° M 21'59	46°39'25
	1236 May 28 j 13:53	0° E			1238 Nov 01 j 18:47	0° A	
	1236 Jun 22 j 03:52	0° O			1238 Nov 28 j 17:43	0° M	
	1236 Jul 16 j 21:19	0° M			1238 Dec 24 j 01:28	0° X	
	1236 Aug 10 j 20:22	0° A			1239 Jan 17 j 18:21	0° Z	
desc. node	1236 Aug 21 j 09:31	12° A 33'22		desc. node	1239 Feb 06 j 04:39	23° Z 48'35	
	1236 Sep 05 j 04:26	0° M			1239 Feb 11 j 05:36	0° \approx	
	1236 Oct 01 j 04:15	0° X			1239 Mar 07 j 15:08	0° H	
	1236 Oct 28 j 16:07	0° Z			1239 Apr 01 j 00:45	0° Y	
evening max el	1236 Nov 01 j 21:43	4° Z 20'08	47°17'56		1239 Apr 25 j 11:05	0° B	
	1236 Dec 01 j 10:25	0° \approx		morning set	1239 May 01 j 06:45	7° B 08'31	
greatest brilliancy	1236 Dec 12 j 12:00	5° \approx 50'54	-4.9m		1239 May 19 j 21:51	0° II	
asc. node	1236 Dec 12 j 13:02	5° \approx 51'52		asc. node	1239 May 30 j 08:16	12° II 48'20	
retrograde	1236 Dec 22 j 18:12	7° \approx 51'37		max. Earth dist.	1239 Jun 05 j 22:04	20° II 52'50	1.73622 AU
evening set	1237 Jan 07 j 12:34	2° \approx 55'51					
min. Earth dist.	1237 Jan 11 j 12:57	0° \approx 30'42	0.26959 AU	superior conj	1239 Jun 06 j 23:49	22° II 11'57	0°18'03
inferior conj	1237 Jan 12 j 11:05	29° Z 56'18	6°56'17	minimum elong	1239 Jun 06 j 20:12	22° II 00'50	0°17'52
minimum elong	1237 Jan 12 j 00:58	0° \approx 12'01	6°54'17		1239 Jun 13 j 08:12	0° E	
	1237 Jan 12 j 08:42	30° R 33			1239 Jul 07 j 17:25	0° O	
morning rise	1237 Jan 16 j 13:46	27° Z 26'21		evening rise	1239 Jul 12 j 19:43	6° O 16'39	
direct	1237 Feb 01 j 22:23	22° Z 13'02			1239 Aug 01 j 01:39	0° M	
greatest brilliancy	1237 Feb 10 j 22:45	23° Z 44'56	-4.9m		1239 Aug 25 j 09:55	0° A	
	1237 Feb 23 j 10:46	0° \approx		desc. node	1239 Sep 18 j 21:32	0° M 06'16	
morning max el	1237 Mar 23 j 12:30	23° \approx 37'54	46°19'23		1239 Sep 18 j 19:30	0° M	
	1237 Mar 29 j 21:39	0° H			1239 Oct 13 j 07:42	0° X	
desc. node	1237 Apr 03 j 02:23	4° H 18'24			1239 Nov 07 j 00:38	0° Z	
	1237 Apr 26 j 21:46	0° Y			1239 Dec 02 j 03:54	0° \approx	
	1237 May 23 j 07:07	0° B			1239 Dec 28 j 08:57	0° H	
	1237 Jun 17 j 22:22	0° II		asc. node	1240 Jan 10 j 00:50	13° H 35'24	
	1237 Jul 13 j 01:28	0° E		evening max el	1240 Jan 13 j 15:18	17° H 17'21	46°54'11
asc. node	1237 Jul 25 j 05:50	14° E 44'08			1240 Jan 26 j 21:00	0° Y	
	1237 Aug 06 j 18:19	0° O		greatest brilliancy	1240 Feb 22 j 14:24	18° Y 12'25	-4.8m
	1237 Aug 31 j 02:30	0° M		retrograde	1240 Mar 04 j 04:53	20° Y 19'23	
morning set	1237 Sep 17 j 07:42	21° M 25'26		evening set	1240 Mar 21 j 09:33	14° Y 33'10	
	1237 Sep 24 j 04:23	0° A		inferior conj	1240 Mar 25 j 09:48	12° Y 03'41	7°16'33
	1237 Oct 18 j 02:39	0° M		minimum elong	1240 Mar 25 j 18:48	11° Y 49'29	7°15'07
max. Earth dist.	1237 Oct 24 j 08:51	7° M 51'50	1.71293 AU	min. Earth dist.	1240 Mar 25 j 06:54	12° Y 08'14	0.28491 AU
				morning rise	1240 Mar 30 j 04:18	9° Y 07'44	
superior conj	1237 Oct 25 j 23:48	9° M 54'14	0°42'53	direct	1240 Apr 15 j 14:32	3° Y 53'48	
minimum elong	1237 Oct 26 j 09:12	10° M 23'47	0°42'29	greatest brilliancy	1240 Apr 25 j 06:56	5° Y 36'58	-4.7m
	1237 Nov 10 j 23:28	0° X		desc. node	1240 Apr 30 j 14:07	7° Y 48'41	
desc. node	1237 Nov 13 j 19:20	3° X 33'20			1240 May 30 j 08:33	0° B	
	1237 Dec 04 j 20:12	0° Z		morning max el	1240 Jun 03 j 12:13	3° B 54'01	45°46'03
evening rise	1237 Dec 06 j 03:10	1° Z 37'15			1240 Jun 28 j 23:58	0° II	
	1237 Dec 28 j 17:58	0° \approx			1240 Jul 25 j 21:21	0° E	
	1238 Jan 21 j 18:25	0° H			1240 Aug 20 j 12:20	0° O	
	1238 Feb 15 j 00:10	0° Y		asc. node	1240 Aug 21 j 17:42	1° O 27'33	
asc. node	1238 Mar 06 j 22:36	24° Y 20'45			1240 Sep 14 j 08:14	0° M	
	1238 Mar 11 j 14:50	0° B			1240 Oct 08 j 15:39	0° A	
	1238 Apr 05 j 19:26	0° II			1240 Nov 01 j 15:47	0° M	
	1238 May 01 j 22:56	0° E			1240 Nov 25 j 12:39	0° X	
	1238 May 30 j 00:59	0° O		morning set	1240 Nov 30 j 07:14	6° X 00'23	
evening max el	1238 Jun 06 j 16:58	7° O 31'09	45°23'34	desc. node	1240 Dec 11 j 07:04	19° X 50'24	
desc. node	1238 Jun 26 j 11:58	24° O 37'02			1240 Dec 19 j 08:50	0° Z	

superior conj	1241 Jan 11 j 03:32	28° Z 37'42	-1°05'01	greatest brilliancy	1243 Jul 06 j 06:01	13° II 12'42	-4.7m
minimum elong	1241 Jan 10 j 15:42	28° Z 00'31	1°04'38		1243 Aug 01 j 09:34	0° G	
	1241 Jan 12 j 05:46	0° \approx		morning max el	1243 Aug 13 j 19:01	11° G 16'59	45°55'58
max. Earth dist.	1241 Jan 14 j 07:03	2° \approx 34'41	1.71338 AU		1243 Sep 01 j 02:41	0° Ω	
	1241 Feb 05 j 04:32	0° H		asc. node	1243 Sep 19 j 05:41	20° Ω 04'14	
evening rise	1241 Feb 20 j 22:03	19° H 37'13			1243 Sep 27 j 20:48	0° M	
	1241 Mar 01 j 06:30	0° Y			1243 Oct 23 j 02:18	0° $\underline{\text{A}}$	
	1241 Mar 25 j 13:08	0° B			1243 Nov 16 j 13:56	0° M	
asc. node	1241 Apr 03 j 10:38	10° B 55'01			1243 Dec 10 j 17:17	0° X	
	1241 Apr 19 j 01:51	0° II			1244 Jan 03 j 17:36	0° Z	
	1241 May 13 j 22:08	0° G		desc. node	1244 Jan 08 j 18:52	6° Z 19'09	
	1241 Jun 08 j 04:40	0° Ω			1244 Jan 27 j 17:36	0° \approx	
	1241 Jul 04 j 03:31	0° M		morning set	1244 Feb 16 j 11:18	24° \approx 37'49	
desc. node	1241 Jul 23 j 23:38	22° M 03'11			1244 Feb 20 j 18:45	0° H	
	1241 Jul 31 j 09:36	0° $\underline{\text{A}}$			1244 Mar 15 j 22:04	0° Y	
evening max el	1241 Aug 18 j 08:30	18° $\underline{\text{A}}$ 15'18	46°16'02				
	1241 Aug 31 j 04:39	0° M		superior conj	1244 Mar 26 j 17:38	13° Y 23'43	-1°11'05
greatest brilliancy	1241 Sep 27 j 15:20	17° M 30'01	-4.8m	minimum elong	1244 Mar 27 j 03:05	13° Y 52'56	1°10'49
retrograde	1241 Oct 06 j 20:09	19° M 03'28		max. Earth dist.	1244 Mar 30 j 01:50	17° Y 31'39	1.72833 AU
evening set	1241 Oct 22 j 04:01	14° M 30'18			1244 Apr 09 j 04:11	0° B	
inferior conj	1241 Oct 27 j 10:40	11° M 23'56	-4°22'11	asc. node	1244 Apr 30 j 22:28	26° B 47'27	
minimum elong	1241 Oct 27 j 19:37	11° M 10'19	4°19'41	evening rise	1244 May 03 j 15:20	0° II 06'38	
min. Earth dist.	1241 Oct 28 j 01:18	11° M 01'40	0.26721 AU		1244 May 03 j 13:10	0° II	
morning rise	1241 Nov 02 j 10:49	7° M 53'32			1244 May 28 j 00:46	0° G	
asc. node	1241 Nov 14 j 03:08	3° M 51'25			1244 Jun 21 j 15:02	0° Ω	
direct	1241 Nov 17 j 01:22	3° M 40'52			1244 Jul 16 j 08:58	0° M	
greatest brilliancy	1241 Nov 27 j 18:28	5° M 51'51	-4.9m		1244 Aug 10 j 08:47	0° $\underline{\text{A}}$	
	1241 Dec 30 j 13:58	0° X		desc. node	1244 Aug 20 j 11:40	12° $\underline{\text{A}}$ 01'43	
morning max el	1242 Jan 06 j 18:33	7° X 07'06	46°55'46		1244 Sep 04 j 18:07	0° M	
	1242 Jan 28 j 03:56	0° Z			1244 Sep 30 j 20:18	0° X	
	1242 Feb 23 j 09:48	0° \approx			1244 Oct 28 j 13:54	0° Z	
desc. node	1242 Mar 05 j 16:41	12° \approx 03'50		evening max el	1244 Oct 30 j 10:33	1° Z 53'23	47°16'55
	1242 Mar 20 j 20:10	0° H			1244 Dec 02 j 23:08	0° \approx	
	1242 Apr 14 j 21:59	0° Y		greatest brilliancy	1244 Dec 10 j 02:20	3° \approx 24'41	-4.9m
	1242 May 09 j 19:24	0° B		asc. node	1244 Dec 11 j 15:00	3° \approx 56'49	
	1242 Jun 03 j 13:30	0° II		retrograde	1244 Dec 20 j 07:12	5° \approx 24'35	
asc. node	1242 Jun 26 j 20:02	28° II 22'44		evening set	1245 Jan 04 j 22:03	0° \approx 34'20	
	1242 Jun 28 j 03:49	0° G			1245 Jan 05 j 21:50	30° R Z	
morning set	1242 Jul 07 j 21:29	11° G 56'16		min. Earth dist.	1245 Jan 09 j 02:35	28° Z 03'41	0.26906 AU
	1242 Jul 22 j 13:42	0° Ω		inferior conj	1245 Jan 10 j 00:06	27° Z 30'19	6°41'27
max. Earth dist.	1242 Aug 09 j 16:51	22° Ω 25'48	1.72741 AU	minimum elong	1245 Jan 09 j 13:49	27° Z 46'16	6°39'17
				morning rise	1245 Jan 14 j 05:57	24° Z 55'59	
superior conj	1242 Aug 13 j 07:54	26° Ω 55'46	1°22'23	direct	1245 Jan 30 j 10:16	19° Z 47'35	
minimum elong	1242 Aug 13 j 03:47	26° Ω 42'58	1°22'21	greatest brilliancy	1245 Feb 08 j 12:38	21° Z 21'02	-4.9m
	1242 Aug 15 j 19:17	0° M			1245 Feb 24 j 12:30	0° \approx	
	1242 Sep 08 j 21:51	0° $\underline{\text{A}}$		morning max el	1245 Mar 21 j 01:46	21° \approx 16'15	46°21'05
evening rise	1242 Sep 19 j 13:10	13° $\underline{\text{A}}$ 15'51			1245 Mar 29 j 18:08	0° H	
	1242 Oct 02 j 23:03	0° M		desc. node	1245 Apr 02 j 04:29	3° H 33'26	
desc. node	1242 Oct 16 j 09:33	16° M 45'53			1245 Apr 26 j 13:02	0° Y	
	1242 Oct 27 j 00:11	0° X			1245 May 22 j 20:14	0° B	
	1242 Nov 20 j 02:09	0° Z			1245 Jun 17 j 10:21	0° II	
	1242 Dec 14 j 06:30	0° \approx			1245 Jul 12 j 12:48	0° G	
	1243 Jan 07 j 16:50	0° H		asc. node	1245 Jul 24 j 07:51	14° G 16'23	
	1243 Feb 01 j 16:11	0° Y			1245 Aug 06 j 05:18	0° Ω	
asc. node	1243 Feb 06 j 12:41	5° Y 42'36			1245 Aug 30 j 13:20	0° M	
	1243 Feb 27 j 18:14	0° B		morning set	1245 Sep 14 j 23:02	19° M 09'52	
evening max el	1243 Mar 25 j 19:34	27° B 24'31	45°44'55		1245 Sep 23 j 15:10	0° $\underline{\text{A}}$	
	1243 Mar 28 j 11:58	0° II			1245 Oct 17 j 13:27	0° M	
greatest brilliancy	1243 May 02 j 18:18	25° II 37'58	-4.7m	max. Earth dist.	1245 Oct 21 j 20:51	5° M 24'45	1.71326 AU
retrograde	1243 May 13 j 17:09	27° II 47'43					
evening set	1243 May 28 j 18:23	23° II 26'00		superior conj	1245 Oct 23 j 12:06	7° M 28'04	0°46'05
desc. node	1243 May 29 j 02:04	23° II 15'26		minimum elong	1245 Oct 23 j 21:54	7° M 58'52	0°45'41
inferior conj	1243 Jun 04 j 04:52	19° II 34'14	-1°26'00		1245 Nov 10 j 10:19	0° X	
minimum elong	1243 Jun 04 j 01:44	19° II 39'09	1°25'04	desc. node	1245 Nov 12 j 21:20	3° X 05'29	
min. Earth dist.	1243 Jun 04 j 04:59	19° II 34'03	0.28965 AU	evening rise	1245 Dec 03 j 13:29	29° X 04'33	
morning rise	1243 Jun 10 j 09:06	15° II 50'47			1245 Dec 04 j 07:09	0° Z	
direct	1243 Jun 25 j 20:39	11° II 16'51			1245 Dec 28 j 05:02	0° \approx	

	1246 Jan 21 j 05:39	0° H			1248 Jun 28 j 15:52	0° II	
	1246 Feb 14 j 11:38	0° Y			1248 Jul 25 j 10:37	0° G	
asc. node	1246 Mar 06 j 00:45	23° Y 51'33			1248 Aug 20 j 00:25	0° Ω	
	1246 Mar 11 j 02:44	0° B		asc. node	1248 Aug 20 j 19:51	0° Ω 58'03	
	1246 Apr 05 j 08:14	0° II			1248 Sep 13 j 19:43	0° M	
	1246 May 01 j 13:43	0° G			1248 Oct 08 j 02:49	0° Ω	
	1246 May 29 j 21:02	0° Ω			1248 Nov 01 j 02:48	0° M	
evening max el	1246 Jun 04 j 08:28	5° Ω 20'05	45°23'04		1248 Nov 24 j 23:37	0° A	
desc. node	1246 Jun 25 j 13:54	23° Ω 29'07		morning set	1248 Nov 27 j 17:49	3° A 28'15	
	1246 Jul 05 j 20:32	0° M		desc. node	1248 Dec 10 j 09:04	19° A 22'20	
greatest brilliancy	1246 Jul 12 j 23:49	3° M 08'40	-4.7m		1248 Dec 18 j 19:45	0° Z	
retrograde	1246 Jul 22 j 23:37	4° M 56'25					
	1246 Aug 08 j 02:56	30° R Ω		superior conj	1249 Jan 08 j 13:38	26° Z 04'38	-1°02'21
evening set	1246 Aug 09 j 13:34	29° Ω 10'06		minimum elong	1249 Jan 08 j 01:40	25° Z 27'05	1°01'56
inferior conj	1246 Aug 13 j 06:39	26° Ω 54'52	-8°26'31	max. Earth dist.	1249 Jan 11 j 17:11	0° \approx 01'47	1.71299 AU
minimum elong	1246 Aug 13 j 01:46	27° Ω 02'24	8°26'10		1249 Jan 11 j 16:36	0° \approx	
min. Earth dist.	1246 Aug 13 j 17:05	26° Ω 38'44	0.28544 AU		1249 Feb 04 j 15:20	0° H	
morning rise	1246 Aug 16 j 13:45	24° Ω 53'53		evening rise	1249 Feb 18 j 10:12	17° H 12'03	
direct	1246 Sep 03 j 17:03	18° Ω 43'15			1249 Feb 28 j 17:17	0° Y	
greatest brilliancy	1246 Sep 14 j 17:07	20° Ω 56'26	-4.8m		1249 Mar 25 j 00:02	0° B	
	1246 Sep 30 j 08:51	0° M		asc. node	1249 Apr 02 j 12:38	10° B 27'34	
asc. node	1246 Oct 16 j 17:19	13° M 58'17			1249 Apr 18 j 13:01	0° II	
morning max el	1246 Oct 24 j 00:21	21° M 06'26	46°38'08		1249 May 13 j 09:47	0° G	
	1246 Nov 01 j 14:13	0° Ω			1249 Jun 07 j 17:14	0° Ω	
	1246 Nov 28 j 08:44	0° M			1249 Jul 03 j 17:49	0° M	
	1246 Dec 23 j 14:41	0° A		desc. node	1249 Jul 23 j 01:48	21° M 23'44	
	1247 Jan 17 j 06:38	0° Z			1249 Jul 31 j 03:49	0° Ω	
desc. node	1247 Feb 05 j 06:47	23° Z 18'49		evening max el	1249 Aug 15 j 21:50	15° Ω 54'56	46°13'24
	1247 Feb 10 j 17:18	0° \approx			1249 Aug 31 j 13:23	0° M	
	1247 Mar 07 j 02:26	0° H		greatest brilliancy	1249 Sep 25 j 04:34	15° M 05'42	-4.8m
	1247 Mar 31 j 11:44	0° Y		retrograde	1249 Oct 04 j 07:36	16° M 37'36	
	1247 Apr 24 j 21:49	0° B		evening set	1249 Oct 19 j 19:20	12° M 00'38	
morning set	1247 Apr 28 j 23:59	5° B 01'15		inferior conj	1249 Oct 24 j 23:11	8° M 58'01	-4°42'45
	1247 May 19 j 08:26	0° II		minimum elong	1249 Oct 25 j 08:35	8° M 43'40	4°40'11
asc. node	1247 May 29 j 10:14	12° II 21'58		min. Earth dist.	1249 Oct 25 j 15:10	8° M 33'40	0.26771 AU
max. Earth dist.	1247 Jun 03 j 21:55	19° II 06'17	1.73624 AU	morning rise	1249 Oct 30 j 21:22	5° M 29'41	
				asc. node	1249 Nov 13 j 05:08	1° M 16'22	
superior conj	1247 Jun 04 j 17:57	20° II 07'47	0°14'57	direct	1249 Nov 14 j 14:16	1° M 14'03	
minimum elong	1247 Jun 04 j 14:55	19° II 58'29	0°14'48	greatest brilliancy	1249 Nov 25 j 08:58	3° M 26'01	-4.9m
behind sun begin	1247 Jun 04 j 06:56	19° II 33'59			1249 Dec 30 j 15:26	0° A	
behind sun end	1247 Jun 04 j 22:53	20° II 22'59		morning max el	1250 Jan 04 j 07:06	4° A 39'15	46°56'14
	1247 Jun 12 j 18:44	0° G			1250 Jan 27 j 21:04	0° Z	
	1247 Jul 07 j 04:02	0° Ω			1250 Feb 23 j 00:00	0° \approx	
evening rise	1247 Jul 10 j 14:31	4° Ω 13'58		desc. node	1250 Mar 04 j 18:46	11° \approx 30'07	
	1247 Jul 31 j 12:28	0° M			1250 Mar 20 j 08:52	0° H	
	1247 Aug 24 j 21:02	0° Ω			1250 Apr 14 j 09:48	0° Y	
desc. node	1247 Sep 17 j 23:40	29° Ω 37'22			1250 May 09 j 06:40	0° B	
	1247 Sep 18 j 07:03	0° M			1250 Jun 03 j 00:26	0° II	
	1247 Oct 12 j 19:49	0° A		asc. node	1250 Jun 25 j 22:07	27° II 56'11	
	1247 Nov 06 j 13:36	0° Z			1250 Jun 27 j 14:34	0° G	
	1247 Dec 01 j 18:18	0° \approx		morning set	1250 Jul 05 j 15:30	9° G 51'27	
	1247 Dec 28 j 02:30	0° H			1250 Jul 22 j 00:21	0° Ω	
asc. node	1248 Jan 09 j 02:52	12° H 47'44		max. Earth dist.	1250 Aug 07 j 09:34	20° Ω 15'50	1.72793 AU
evening max el	1248 Jan 11 j 07:30	15° H 02'20	46°56'19				
	1248 Jan 27 j 02:12	0° Y		superior conj	1250 Aug 11 j 01:26	24° Ω 48'10	1°21'35
greatest brilliancy	1248 Feb 20 j 06:13	15° Y 58'18	-4.8m	minimum elong	1250 Aug 10 j 20:43	24° Ω 33'32	1°21'30
retrograde	1248 Mar 01 j 21:19	18° Y 05'30			1250 Aug 15 j 05:57	0° M	
evening set	1248 Mar 19 j 04:01	12° Y 15'20			1250 Sep 08 j 08:39	0° Ω	
inferior conj	1248 Mar 23 j 01:26	9° Y 49'55	7°27'48	evening rise	1250 Sep 17 j 03:50	10° Ω 58'00	
minimum elong	1248 Mar 23 j 10:07	9° Y 36'13	7°26'29		1250 Oct 02 j 10:03	0° M	
min. Earth dist.	1248 Mar 22 j 21:28	9° Y 56'11	0.28458 AU	desc. node	1250 Oct 15 j 11:29	16° M 17'16	
morning rise	1248 Mar 27 j 16:32	6° Y 59'02			1250 Oct 26 j 11:26	0° A	
direct	1248 Apr 13 j 06:14	1° Y 40'50			1250 Nov 19 j 13:42	0° Z	
greatest brilliancy	1248 Apr 22 j 20:19	3° Y 22'25	-4.7m		1250 Dec 13 j 18:26	0° \approx	
desc. node	1248 Apr 29 j 16:07	6° Y 19'46			1251 Jan 07 j 05:21	0° H	
	1248 May 30 j 08:15	0° B			1251 Feb 01 j 05:44	0° Y	
morning max el	1248 Jun 01 j 04:23	1° B 44'38	45°46'28	asc. node	1251 Feb 05 j 14:51	5° Y 08'30	

	1251 Feb 27 j 10:08	0° B		morning set	1253 Sep 12 j 14:26	16° M 53'53	
evening max el	1251 Mar 23 j 10:09	25° B 09'57 45°46'55			1253 Sep 23 j 02:11	0° A	
	1251 Mar 28 j 11:17	0° II			1253 Oct 17 j 00:32	0° M	
greatest brilliancy	1251 Apr 30 j 11:11	23° II 30'24 -4.7m		max. Earth dist.	1253 Oct 19 j 07:52	2° M 53'44 1.71362 AU	
retrograde	1251 May 11 j 09:24	25° II 40'15					
evening set	1251 May 26 j 11:07	21° II 17'55		superior conj	1253 Oct 21 j 00:21	5° M 00'53 0°49'13	
desc. node	1251 May 28 j 04:01	20° II 20'14		minimum elong	1253 Oct 21 j 10:27	5° M 32'37 0°48'48	
inferior conj	1251 Jun 01 j 21:30	17° II 26'34 -1°06'34			1253 Nov 09 j 21:28	0° A	
minimum elong	1251 Jun 01 j 19:04	17° II 30'23 1°05'51		desc. node	1253 Nov 11 j 23:22	2° A 36'45	
min. Earth dist.	1251 Jun 01 j 22:09	17° II 25'32 0.28962 AU		evening rise	1253 Nov 30 j 23:33	26° A 30'08	
morning rise	1251 Jun 08 j 02:56	13° II 41'13			1253 Dec 03 j 18:23	0° B	
direct	1251 Jun 23 j 12:32	9° II 08'59			1253 Dec 27 j 16:23	0° \approx	
greatest brilliancy	1251 Jul 03 j 22:55	11° II 05'20 -4.7m			1254 Jan 20 j 17:09	0° H	
	1251 Aug 01 j 13:37	0° B			1254 Feb 13 j 23:25	0° Y	
morning max el	1251 Aug 11 j 10:15	9° B 04'53 45°54'53		asc. node	1254 Mar 05 j 02:43	23° Y 20'48	
	1251 Aug 31 j 19:37	0° Q			1254 Mar 10 j 15:00	0° B	
asc. node	1251 Sep 18 j 07:39	19° Q 28'05			1254 Apr 04 j 21:29	0° II	
	1251 Sep 27 j 10:42	0° M			1254 May 01 j 05:04	0° B	
	1251 Oct 22 j 14:55	0° A			1254 May 29 j 18:08	0° Q	
	1251 Nov 16 j 01:55	0° M		evening max el	1254 Jun 02 j 00:38	3° Q 09'46 45°22'40	
	1251 Dec 10 j 04:54	0° A		desc. node	1254 Jun 24 j 16:04	22° Q 19'02	
	1252 Jan 03 j 04:59	0° B			1254 Jul 08 j 03:47	0° M	
desc. node	1252 Jan 07 j 20:58	5° B 50'11		greatest brilliancy	1254 Jul 10 j 12:41	0° M 53'57 -4.7m	
	1252 Jan 27 j 04:48	0° \approx		retrograde	1254 Jul 20 j 14:52	2° M 43'20	
morning set	1252 Feb 13 j 22:51	22° \approx 09'39			1254 Aug 01 j 09:56	30° R Q	
	1252 Feb 20 j 05:48	0° H		evening set	1254 Aug 07 j 01:51	27° Q 00'55	
	1252 Mar 15 j 09:00	0° Y		inferior conj	1254 Aug 10 j 21:54	24° Q 41'02 -8°20'48	
				minimum elong	1254 Aug 10 j 16:21	24° Q 49'37 8°20'20	
superior conj	1252 Mar 24 j 08:32	11° Y 07'41 -1°13'00		min. Earth dist.	1254 Aug 11 j 07:04	24° Q 26'52 0.28585 AU	
minimum elong	1252 Mar 24 j 17:42	11° Y 36'03 1°12'45		morning rise	1254 Aug 14 j 06:41	22° Q 37'29	
max. Earth dist.	1252 Mar 27 j 16:48	15° Y 15'57 1.72777 AU		direct	1254 Sep 01 j 09:29	16° Q 29'03	
	1252 Apr 08 j 15:01	0° B		greatest brilliancy	1254 Sep 12 j 07:34	18° Q 40'38 -4.8m	
asc. node	1252 Apr 30 j 00:27	26° B 20'21			1254 Sep 30 j 23:31	0° M	
evening rise	1252 May 01 j 08:35	27° B 59'01		asc. node	1254 Oct 15 j 19:22	13° M 03'29	
	1252 May 02 j 24:00	0° II		morning max el	1254 Oct 21 j 15:48	18° M 48'48 46°36'33	
	1252 May 27 j 11:43	0° B			1254 Nov 01 j 09:30	0° A	
	1252 Jun 21 j 02:16	0° Q			1254 Nov 27 j 23:59	0° M	
	1252 Jul 15 j 20:44	0° M			1254 Dec 23 j 04:15	0° A	
	1252 Aug 09 j 21:25	0° A			1255 Jan 16 j 19:17	0° B	
desc. node	1252 Aug 19 j 13:42	11° A 29'03		desc. node	1255 Feb 04 j 08:54	22° B 47'52	
	1252 Sep 04 j 08:08	0° M			1255 Feb 10 j 05:21	0° \approx	
	1252 Sep 30 j 12:51	0° A			1255 Mar 06 j 14:04	0° H	
evening max el	1252 Oct 27 j 23:53	29° A 27'31 47°15'58			1255 Mar 30 j 23:03	0° Y	
	1252 Oct 28 j 12:47	0° B			1255 Apr 24 j 08:55	0° B	
	1252 Dec 05 j 08:30	0° \approx		morning set	1255 Apr 26 j 17:01	2° B 52'10	
greatest brilliancy	1252 Dec 07 j 15:59	0° \approx 56'56 -4.9m			1255 May 18 j 19:24	0° II	
asc. node	1252 Dec 10 j 17:05	1° \approx 56'24		asc. node	1255 May 28 j 12:20	11° II 54'50	
retrograde	1252 Dec 17 j 20:32	2° \approx 56'48		max. Earth dist.	1255 Jun 01 j 20:53	17° II 15'46 1.73621 AU	
	1252 Dec 29 j 20:17	30° R Q					
evening set	1253 Jan 02 j 07:32	28° B 11'33		superior conj	1255 Jun 02 j 12:01	18° II 02'16 0°11'49	
min. Earth dist.	1253 Jan 06 j 15:50	25° B 35'58 0.26855 AU		minimum elong	1255 Jun 02 j 09:36	17° II 54'51 0°11'43	
inferior conj	1253 Jan 07 j 12:59	25° B 03'19 6°25'39		behind sun begin	1255 Jun 01 j 18:18	17° II 07'52	
minimum elong	1253 Jan 07 j 02:37	25° B 19'20 6°23'22		behind sun end	1255 Jun 03 j 00:54	18° II 41'51	
morning rise	1253 Jan 11 j 22:04	22° B 24'43			1255 Jun 12 j 05:40	0° B	
direct	1253 Jan 27 j 22:30	17° B 21'01			1255 Jul 06 j 15:02	0° Q	
greatest brilliancy	1253 Feb 06 j 02:06	18° B 55'50 -4.9m		evening rise	1255 Jul 08 j 09:24	2° Q 10'25	
	1253 Feb 25 j 07:47	0° \approx			1255 Jul 30 j 23:38	0° M	
morning max el	1253 Mar 18 j 15:55	18° \approx 56'02 46°22'44			1255 Aug 24 j 08:29	0° A	
	1253 Mar 29 j 14:13	0° H		desc. node	1255 Sep 17 j 01:38	29° A 06'58	
desc. node	1253 Apr 01 j 06:26	2° H 47'58			1255 Sep 17 j 18:57	0° M	
	1253 Apr 26 j 04:19	0° Y			1255 Oct 12 j 08:22	0° A	
	1253 May 22 j 09:27	0° B			1255 Nov 06 j 03:06	0° B	
	1253 Jun 16 j 22:28	0° II			1255 Dec 01 j 09:23	0° \approx	
	1253 Jul 12 j 00:17	0° B			1255 Dec 27 j 21:04	0° H	
asc. node	1253 Jul 23 j 10:01	13° B 48'36		asc. node	1256 Jan 08 j 05:02	11° H 57'50	
	1253 Aug 05 j 16:27	0° Q		evening max el	1256 Jan 08 j 23:18	12° H 44'22 46°58'22	
	1253 Aug 30 j 00:21	0° M			1256 Jan 27 j 10:30	0° Y	

greatest brilliancy	1256 Feb 17 j 22:29	13° Υ 42'43	-4.8m	morning set	1258 Jul 03 j 09:16	7° \ominus 44'56	
retrograde	1256 Feb 28 j 13:11	15° Υ 49'18			1258 Jul 21 j 11:17	0° Ω	
evening set	1256 Mar 16 j 22:16	9° Υ 55'35		max. Earth dist.	1258 Aug 05 j 03:51	18° Ω 09'51	1.72844 AU
inferior conj	1256 Mar 20 j 16:54	7° Υ 34'07	7°38'23				
minimum elong	1256 Mar 21 j 01:12	7° Υ 20'59	7°37'13	superior conj	1258 Aug 08 j 18:54	22° Ω 39'33	1°20'38
min. Earth dist.	1256 Mar 20 j 12:02	7° Υ 41'49	0.28420 AU	minimum elong	1258 Aug 08 j 13:36	22° Ω 23'08	1°20'33
morning rise	1256 Mar 25 j 04:29	4° Υ 48'16			1258 Aug 14 j 16:55	0° \mathbb{M}	
	1256 Apr 05 j 14:05	30° \mathbb{R} \mathbb{H}			1258 Sep 07 j 19:43	0° $\underline{\Omega}$	
direct	1256 Apr 10 j 21:35	29° \mathbb{H} 25'58		evening rise	1258 Sep 14 j 18:44	8° $\underline{\Omega}$ 40'14	
	1256 Apr 16 j 08:29	0° Υ			1258 Oct 01 j 21:19	0° \mathbb{M}	
greatest brilliancy	1256 Apr 20 j 09:41	1° Υ 05'58	-4.8m	desc. node	1258 Oct 14 j 13:33	15° \mathbb{M} 48'21	
desc. node	1256 Apr 28 j 18:12	4° Υ 52'15			1258 Oct 25 j 22:54	0° \mathbb{H}	
morning max el	1256 May 29 j 19:33	29° Υ 31'23	45°46'56		1258 Nov 19 j 01:25	0° \mathbb{Z}	
	1256 May 30 j 07:30	0° \mathbb{B}			1258 Dec 13 j 06:31	0° \approx	
	1256 Jun 28 j 07:57	0° \mathbb{H}			1259 Jan 06 j 18:02	0° \mathbb{H}	
	1256 Jul 25 j 00:13	0° \ominus			1259 Jan 31 j 19:35	0° Υ	
asc. node	1256 Aug 19 j 21:48	0° Ω 26'51		asc. node	1259 Feb 04 j 16:46	4° Υ 32'51	
	1256 Aug 19 j 12:49	0° Ω			1259 Feb 27 j 02:34	0° \mathbb{B}	
	1256 Sep 13 j 07:30	0° \mathbb{M}		evening max el	1259 Mar 21 j 00:48	22° \mathbb{B} 54'38	45°48'57
	1256 Oct 07 j 14:17	0° $\underline{\Omega}$			1259 Mar 28 j 12:10	0° \mathbb{H}	
greatest brilliancy	1256 Oct 28 j 15:42	26° $\underline{\Omega}$ 19'13	-3.9m	greatest brilliancy	1259 Apr 28 j 03:26	21° \mathbb{H} 20'49	-4.7m
	1256 Oct 31 j 14:07	0° \mathbb{M}		retrograde	1259 May 09 j 01:55	23° \mathbb{H} 31'27	
	1256 Nov 24 j 10:54	0° \mathbb{H}		evening set	1259 May 24 j 03:50	19° \mathbb{H} 08'07	
morning set	1256 Nov 25 j 04:31	0° \mathbb{H} 55'26		desc. node	1259 May 27 j 06:09	17° \mathbb{H} 20'51	
desc. node	1256 Dec 09 j 11:13	18° \mathbb{H} 53'37		inferior conj	1259 May 30 j 13:56	15° \mathbb{H} 17'24	-0°46'53
	1256 Dec 18 j 07:01	0° \mathbb{Z}		minimum elong	1259 May 30 j 12:13	15° \mathbb{H} 20'06	0°46'23
				min. Earth dist.	1259 May 30 j 14:52	15° \mathbb{H} 15'56	0.28959 AU
superior conj	1257 Jan 05 j 23:24	23° \mathbb{Z} 29'18	-0°59'31	morning rise	1259 Jun 05 j 20:30	11° \mathbb{H} 30'37	
minimum elong	1257 Jan 05 j 11:28	22° \mathbb{Z} 51'48	0°59'06	direct	1259 Jun 21 j 04:22	6° \mathbb{H} 59'38	
max. Earth dist.	1257 Jan 09 j 00:26	27° \mathbb{Z} 18'35	1.71265 AU	greatest brilliancy	1259 Jul 01 j 15:31	8° \mathbb{H} 56'41	-4.7m
	1257 Jan 11 j 03:52	0° \approx			1259 Aug 01 j 16:20	0° \ominus	
	1257 Feb 04 j 02:33	0° \mathbb{H}		morning max el	1259 Aug 09 j 02:08	6° \ominus 53'48	45°53'53
evening rise	1257 Feb 15 j 21:40	14° \mathbb{H} 43'17			1259 Aug 31 j 12:25	0° Ω	
	1257 Feb 28 j 04:31	0° Υ		asc. node	1259 Sep 17 j 09:40	18° Ω 51'47	
	1257 Mar 24 j 11:22	0° \mathbb{B}			1259 Sep 27 j 00:38	0° \mathbb{M}	
asc. node	1257 Apr 01 j 14:38	9° \mathbb{B} 58'48			1259 Oct 22 j 03:37	0° $\underline{\Omega}$	
	1257 Apr 18 j 00:37	0° \mathbb{H}			1259 Nov 15 j 13:59	0° \mathbb{M}	
	1257 May 12 j 21:54	0° \ominus			1259 Dec 09 j 16:35	0° \mathbb{H}	
	1257 Jun 07 j 06:18	0° Ω			1260 Jan 02 j 16:22	0° \mathbb{Z}	
	1257 Jul 03 j 08:44	0° \mathbb{M}		desc. node	1260 Jan 06 j 23:02	5° \mathbb{Z} 21'10	
desc. node	1257 Jul 22 j 03:51	20° \mathbb{M} 42'23			1260 Jan 26 j 15:58	0° \approx	
	1257 Jul 30 j 22:57	0° $\underline{\Omega}$		morning set	1260 Feb 11 j 10:33	19° \approx 41'54	
evening max el	1257 Aug 13 j 10:21	13° $\underline{\Omega}$ 31'41	46°10'54		1260 Feb 19 j 16:50	0° \mathbb{H}	
	1257 Sep 01 j 01:36	0° \mathbb{M}			1260 Mar 14 j 19:55	0° Υ	
greatest brilliancy	1257 Sep 22 j 17:59	12° \mathbb{M} 41'14	-4.8m				
retrograde	1257 Oct 01 j 19:10	14° \mathbb{M} 11'52		superior conj	1260 Mar 21 j 23:20	8° Υ 51'13	-1°14'46
evening set	1257 Oct 17 j 10:52	9° \mathbb{M} 30'39		minimum elong	1260 Mar 22 j 08:10	9° Υ 18'34	1°14'34
inferior conj	1257 Oct 22 j 11:52	6° \mathbb{M} 32'06	-5°02'31	max. Earth dist.	1260 Mar 25 j 07:25	12° Υ 59'06	1.72729 AU
minimum elong	1257 Oct 22 j 21:40	6° \mathbb{M} 17'09	4°59'55		1260 Apr 08 j 01:54	0° \mathbb{B}	
min. Earth dist.	1257 Oct 23 j 05:15	6° \mathbb{M} 05'38	0.26823 AU	evening rise	1260 Apr 29 j 01:37	25° \mathbb{B} 50'30	
morning rise	1257 Oct 28 j 07:55	3° \mathbb{M} 06'18		asc. node	1260 Apr 29 j 02:34	25° \mathbb{B} 53'26	
	1257 Nov 04 j 10:01	30° \mathbb{R} $\underline{\Omega}$			1260 May 02 j 10:53	0° \mathbb{H}	
direct	1257 Nov 12 j 02:57	28° $\underline{\Omega}$ 47'03			1260 May 26 j 22:44	0° \ominus	
asc. node	1257 Nov 12 j 07:13	28° $\underline{\Omega}$ 47'06			1260 Jun 20 j 13:36	0° Ω	
	1257 Nov 20 j 01:37	0° \mathbb{M}			1260 Jul 15 j 08:37	0° \mathbb{M}	
greatest brilliancy	1257 Nov 22 j 23:57	1° \mathbb{M} 00'42	-4.9m		1260 Aug 09 j 10:10	0° $\underline{\Omega}$	
	1257 Dec 30 j 15:54	0° \mathbb{H}		desc. node	1260 Aug 18 j 15:40	10° $\underline{\Omega}$ 55'54	
morning max el	1258 Jan 01 j 19:41	2° \mathbb{H} 10'41	46°56'31		1260 Sep 03 j 22:19	0° \mathbb{M}	
	1258 Jan 27 j 14:08	0° \mathbb{Z}			1260 Sep 30 j 05:44	0° \mathbb{H}	
	1258 Feb 22 j 14:24	0° \approx		evening max el	1260 Oct 25 j 14:17	27° \mathbb{H} 04'29	47°14'58
desc. node	1258 Mar 03 j 20:41	10° \approx 55'02			1260 Oct 28 j 12:40	0° \mathbb{Z}	
	1258 Mar 19 j 21:52	0° \mathbb{H}		greatest brilliancy	1260 Dec 05 j 05:13	28° \mathbb{Z} 28'54	-4.9m
	1258 Apr 13 j 21:57	0° Υ		asc. node	1260 Dec 09 j 19:11	29° \mathbb{Z} 51'15	
	1258 May 08 j 18:16	0° \mathbb{B}			1260 Dec 10 j 12:05	0° \approx	
	1258 Jun 02 j 11:40	0° \mathbb{H}		retrograde	1260 Dec 15 j 10:19	0° \approx 29'12	
asc. node	1258 Jun 25 j 00:12	27° \mathbb{H} 28'49			1260 Dec 20 j 06:01	30° \mathbb{R} \mathbb{Z}	
	1258 Jun 27 j 01:35	0° \ominus		evening set	1260 Dec 30 j 17:12	25° \mathbb{Z} 48'51	

min. Earth dist.	1261 Jan 04 j 04:49	23° Z 08'55	0.26801 AU	behind sun begin	1263 May 30 j 09:32	14° II 54'53	
inferior conj	1261 Jan 05 j 01:50	22° Z 36'33	6°09'06	behind sun end	1263 May 31 j 23:42	16° II 52'03	
minimum elong	1261 Jan 04 j 15:28	22° Z 52'32	6°06'43	max. Earth dist.	1263 May 30 j 19:25	15° II 25'11	1.73618 AU
morning rise	1261 Jan 09 j 14:09	19° Z 53'52			1263 Jun 11 j 16:13	0° Z	
direct	1261 Jan 25 j 11:21	14° Z 55'02		evening rise	1263 Jul 06 j 04:29	0° Ω 08'35	
greatest brilliancy	1261 Feb 03 j 14:59	16° Z 30'31	-4.9m		1263 Jul 06 j 01:41	0° Ω	
	1261 Feb 25 j 21:51	0° \approx			1263 Jul 30 j 10:30	0° M	
morning max el	1261 Mar 16 j 06:28	16° \approx 37'28	46°24'20		1263 Aug 23 j 19:40	0° $\underline{\Omega}$	
	1261 Mar 29 j 09:27	0° X		desc. node	1263 Sep 16 j 03:42	28° $\underline{\Omega}$ 37'44	
desc. node	1261 Mar 31 j 08:34	2° X 04'18			1263 Sep 17 j 06:35	0° M	
	1261 Apr 25 j 19:11	0° Y			1263 Oct 11 j 20:40	0° X	
	1261 May 21 j 22:26	0° Z			1263 Nov 05 j 16:21	0° Z	
	1261 Jun 16 j 10:26	0° II			1263 Dec 01 j 00:18	0° \approx	
	1261 Jul 11 j 11:40	0° Z			1263 Dec 27 j 15:42	0° X	
asc. node	1261 Jul 22 j 11:58	13° Z 20'25		evening max el	1264 Jan 06 j 14:12	10° X 25'00	47°00'19
	1261 Aug 05 j 03:30	0° Ω		asc. node	1264 Jan 07 j 06:57	11° X 07'31	
	1261 Aug 29 j 11:16	0° M			1264 Jan 27 j 21:10	0° Y	
morning set	1261 Sep 10 j 05:50	14° M 38'26		greatest brilliancy	1264 Feb 15 j 15:22	11° Y 28'48	-4.8m
	1261 Sep 22 j 13:05	0° $\underline{\Omega}$		retrograde	1264 Feb 26 j 04:43	13° Y 34'13	
	1261 Oct 16 j 11:28	0° M		evening set	1264 Mar 14 j 16:29	7° Y 37'15	
max. Earth dist.	1261 Oct 16 j 17:33	0° M 19'05	1.71398 AU	inferior conj	1264 Mar 18 j 08:27	5° Y 19'40	7°48'16
				minimum elong	1264 Mar 18 j 16:19	5° Y 07'14	7°47'15
superior conj	1261 Oct 18 j 12:43	2° M 34'38	0°52'13	min. Earth dist.	1264 Mar 18 j 02:59	5° Y 28'20	0.28377 AU
minimum elong	1261 Oct 18 j 23:02	3° M 06'59	0°51'49	morning rise	1264 Mar 22 j 16:27	2° Y 38'51	
	1261 Nov 09 j 08:29	0° X			1264 Mar 27 j 16:02	30° R X	
desc. node	1261 Nov 11 j 01:29	2° X 08'48		direct	1264 Apr 08 j 12:31	27° X 12'26	
evening rise	1261 Nov 28 j 09:39	23° X 56'15		greatest brilliancy	1264 Apr 17 j 23:38	28° X 51'24	-4.8m
	1261 Dec 03 j 05:30	0° Z			1264 Apr 20 j 23:59	0° Y	
	1261 Dec 27 j 03:35	0° \approx		desc. node	1264 Apr 27 j 20:16	3° Y 28'53	
	1262 Jan 20 j 04:29	0° X		morning max el	1264 May 27 j 09:53	27° Y 17'28	45°47'36
	1262 Feb 13 j 10:57	0° Y			1264 May 30 j 05:12	0° Z	
asc. node	1262 Mar 04 j 04:46	22° Y 51'07			1264 Jun 27 j 23:15	0° II	
	1262 Mar 10 j 03:01	0° Z			1264 Jul 24 j 13:12	0° Z	
	1262 Apr 04 j 10:29	0° II		asc. node	1264 Aug 18 j 23:51	29° Z 57'18	
	1262 Apr 30 j 20:18	0° Z			1264 Aug 19 j 00:45	0° Ω	
	1262 May 29 j 15:41	0° Ω			1264 Sep 12 j 18:54	0° M	
evening max el	1262 May 30 j 16:48	1° Ω 00'14	45°22'07		1264 Oct 07 j 01:24	0° $\underline{\Omega}$	
desc. node	1262 Jun 23 j 18:06	21° Ω 07'19			1264 Oct 31 j 01:07	0° M	
greatest brilliancy	1262 Jul 08 j 02:19	28° Ω 40'52	-4.7m	greatest brilliancy	1264 Nov 01 j 09:36	1° M 41'55	-3.9m
	1262 Jul 12 j 23:04	0° M		morning set	1264 Nov 22 j 15:11	28° M 23'31	
retrograde	1262 Jul 18 j 05:49	0° M 31'02			1264 Nov 23 j 21:51	0° X	
	1262 Jul 23 j 09:09	30° R Ω		desc. node	1264 Dec 08 j 13:14	18° X 25'37	
evening set	1262 Aug 04 j 14:03	24° Ω 53'05			1264 Dec 17 j 17:56	0° Z	
inferior conj	1262 Aug 08 j 13:15	22° Ω 28'12	-8°14'13				
minimum elong	1262 Aug 08 j 07:03	22° Ω 37'49	8°13'39	superior conj	1265 Jan 03 j 09:05	20° Z 54'48	-0°56'34
min. Earth dist.	1262 Aug 08 j 21:23	22° Ω 15'35	0.28623 AU	minimum elong	1265 Jan 02 j 21:15	20° Z 17'40	0°56'08
morning rise	1262 Aug 11 j 23:54	20° Ω 21'40		max. Earth dist.	1265 Jan 06 j 05:08	24° Z 8'31	1.71232 AU
direct	1262 Aug 30 j 01:45	14° Ω 15'59			1265 Jan 10 j 14:45	0° \approx	
greatest brilliancy	1262 Sep 09 j 22:12	16° Ω 25'48	-4.8m		1265 Feb 03 j 13:25	0° X	
	1262 Oct 01 j 10:08	0° M		evening rise	1265 Feb 13 j 09:03	12° X 15'15	
asc. node	1262 Oct 14 j 21:30	12° M 10'39			1265 Feb 27 j 15:25	0° Y	
morning max el	1262 Oct 19 j 06:16	16° M 29'33	46°34'57		1265 Mar 23 j 22:22	0° Z	
	1262 Nov 01 j 03:59	0° $\underline{\Omega}$		asc. node	1265 Mar 31 j 16:47	9° Z 31'38	
	1262 Nov 27 j 14:45	0° M			1265 Apr 17 j 11:51	0° II	
	1262 Dec 22 j 17:26	0° X			1265 May 12 j 09:37	0° Z	
	1263 Jan 16 j 07:36	0° Z			1265 Jun 06 j 18:58	0° Ω	
desc. node	1263 Feb 03 j 10:48	22° Z 17'09			1265 Jul 02 j 23:18	0° M	
	1263 Feb 09 j 17:06	0° \approx		desc. node	1265 Jul 21 j 05:48	20° M 01'37	
	1263 Mar 06 j 01:23	0° X			1265 Jul 30 j 18:05	0° $\underline{\Omega}$	
	1263 Mar 30 j 10:01	0° Y		evening max el	1265 Aug 10 j 22:19	11° $\underline{\Omega}$ 08'37	46°08'16
	1263 Apr 23 j 19:37	0° Z			1265 Sep 01 j 17:13	0° M	
morning set	1263 Apr 24 j 10:22	0° Z 45'16		greatest brilliancy	1265 Sep 20 j 06:59	10° M 17'22	-4.8m
	1263 May 18 j 05:58	0° II		retrograde	1265 Sep 29 j 06:58	11° M 47'22	
asc. node	1263 May 27 j 14:26	11° II 28'53		evening set	1265 Oct 15 j 02:24	7° M 01'18	
				inferior conj	1265 Oct 20 j 00:31	4° M 07'04	-5°21'32
superior conj	1263 May 31 j 06:24	15° II 58'58	0°08'43	minimum elong	1265 Oct 20 j 10:39	3° M 51'39	5°18'58
minimum elong	1263 May 31 j 04:37	15° II 53'28	0°08'38	min. Earth dist.	1265 Oct 20 j 19:10	3° M 38'40	0.26884 AU

morning rise	1265 Oct 25 j 18:16	0° \mathbb{M} 44'19		asc. node	1268 Apr 28 j 04:37	25° \mathcal{B} 26'40	
	1265 Oct 27 j 03:43	30° \mathcal{R} \mathcal{A}			1268 May 01 j 21:40	0° \mathbb{I}	
direct	1265 Nov 09 j 15:48	26° \mathcal{A} 20'40			1268 May 26 j 09:40	0° \mathcal{G}	
asc. node	1265 Nov 11 j 09:17	26° \mathcal{A} 24'16			1268 Jun 20 j 00:50	0° \mathcal{Q}	
greatest brilliancy	1265 Nov 20 j 15:04	28° \mathcal{A} 36'23	-4.9m		1268 Jul 14 j 20:23	0° \mathbb{M}	
	1265 Nov 23 j 19:00	0° \mathbb{M}			1268 Aug 08 j 22:47	0° \mathcal{A}	
morning max el	1265 Dec 30 j 08:57	29° \mathbb{M} 44'37	46°56'52	desc. node	1268 Aug 17 j 17:50	10° \mathcal{A} 23'53	
	1265 Dec 30 j 15:00	0° \mathcal{X}			1268 Sep 03 j 12:23	0° \mathbb{M}	
	1266 Jan 27 j 06:35	0° \mathcal{Z}			1268 Sep 29 j 22:38	0° \mathcal{X}	
	1266 Feb 22 j 04:18	0° \approx		evening max el	1268 Oct 23 j 05:12	24° \mathcal{X} 43'36	47°13'39
desc. node	1266 Mar 02 j 22:51	10° \approx 21'52			1268 Oct 28 j 13:24	0° \mathcal{Z}	
	1266 Mar 19 j 10:26	0° \mathcal{H}		greatest brilliancy	1268 Dec 02 j 18:08	26° \mathcal{Z} 00'47	-4.9m
	1266 Apr 13 j 09:43	0° \mathcal{Y}		asc. node	1268 Dec 08 j 21:09	27° \mathcal{Z} 40'48	
	1266 May 08 j 05:30	0° \mathcal{B}		retrograde	1268 Dec 12 j 23:59	28° \mathcal{Z} 01'16	
	1266 Jun 01 j 22:32	0° \mathbb{I}		evening set	1268 Dec 28 j 02:58	23° \mathcal{Z} 25'48	
asc. node	1266 Jun 24 j 02:12	27° \mathbb{I} 02'21		min. Earth dist.	1269 Jan 01 j 17:42	20° \mathcal{Z} 41'27	0.26754 AU
	1266 Jun 26 j 12:14	0° \mathcal{G}		inferior conj	1269 Jan 02 j 14:33	20° \mathcal{Z} 09'22	5°51'39
morning set	1266 Jul 01 j 03:30	5° \mathcal{G} 41'05		minimum elong	1269 Jan 02 j 04:17	20° \mathcal{Z} 25'11	5°49'10
	1266 Jul 20 j 21:49	0° \mathcal{Q}		morning rise	1269 Jan 07 j 06:07	17° \mathcal{Z} 22'27	
max. Earth dist.	1266 Aug 03 j 01:03	16° \mathcal{Q} 14'09	1.72892 AU	direct	1269 Jan 23 j 00:27	12° \mathcal{Z} 28'44	
				greatest brilliancy	1269 Feb 01 j 03:43	14° \mathcal{Z} 04'21	-4.9m
superior conj	1266 Aug 06 j 12:52	20° \mathcal{Q} 33'45	1°19'35		1269 Feb 26 j 08:31	0° \approx	
minimum elong	1266 Aug 06 j 07:02	20° \mathcal{Q} 15'43	1°19'30	morning max el	1269 Mar 13 j 20:37	14° \approx 17'24	46°25'48
	1266 Aug 14 j 03:29	0° \mathbb{M}			1269 Mar 29 j 04:18	0° \mathcal{H}	
	1266 Sep 07 j 06:27	0° \mathcal{A}		desc. node	1269 Mar 30 j 10:40	1° \mathcal{H} 20'46	
evening rise	1266 Sep 12 j 10:12	6° \mathcal{A} 25'23			1269 Apr 25 j 09:58	0° \mathcal{Y}	
	1266 Oct 01 j 08:16	0° \mathbb{M}			1269 May 21 j 11:22	0° \mathcal{B}	
desc. node	1266 Oct 13 j 15:42	15° \mathbb{M} 20'34			1269 Jun 15 j 22:21	0° \mathbb{I}	
	1266 Oct 25 j 10:07	0° \mathcal{X}			1269 Jul 10 j 23:00	0° \mathcal{G}	
	1266 Nov 18 j 12:56	0° \mathcal{Z}		asc. node	1269 Jul 21 j 14:01	12° \mathcal{G} 52'38	
	1266 Dec 12 j 18:26	0° \approx			1269 Aug 04 j 14:32	0° \mathcal{Q}	
	1267 Jan 06 j 06:36	0° \mathcal{H}			1269 Aug 28 j 22:10	0° \mathbb{M}	
	1267 Jan 31 j 09:21	0° \mathcal{Y}		morning set	1269 Sep 07 j 21:39	12° \mathbb{M} 24'25	
asc. node	1267 Feb 03 j 18:51	3° \mathcal{Y} 58'04			1269 Sep 21 j 23:56	0° \mathcal{A}	
	1267 Feb 26 j 19:04	0° \mathcal{B}		max. Earth dist.	1269 Oct 14 j 02:08	27° \mathcal{A} 41'16	1.71432 AU
evening max el	1267 Mar 18 j 16:04	20° \mathcal{B} 41'33	45°51'09		1269 Oct 15 j 22:20	0° \mathbb{M}	
	1267 Mar 28 j 14:02	0° \mathbb{I}		superior conj	1269 Oct 16 j 01:49	0° \mathbb{M} 10'53	0°55'04
greatest brilliancy	1267 Apr 25 j 19:30	19° \mathbb{I} 11'53	-4.7m	minimum elong	1269 Oct 16 j 12:15	0° \mathbb{M} 43'38	0°54'41
retrograde	1267 May 06 j 18:58	21° \mathbb{I} 23'33			1269 Nov 08 j 19:26	0° \mathcal{X}	
evening set	1267 May 21 j 20:48	16° \mathbb{I} 59'05		desc. node	1269 Nov 10 j 03:29	1° \mathcal{X} 40'41	
desc. node	1267 May 26 j 08:12	14° \mathbb{I} 21'05		evening rise	1269 Nov 25 j 20:12	21° \mathcal{X} 23'54	
inferior conj	1267 May 28 j 06:24	13° \mathbb{I} 09'04	-0°27'12		1269 Dec 02 j 16:34	0° \mathcal{Z}	
minimum elong	1267 May 28 j 05:24	13° \mathbb{I} 10'38	0°26'54		1269 Dec 26 j 14:49	0° \approx	
min. Earth dist.	1267 May 28 j 07:20	13° \mathbb{I} 07'37	0.28951 AU		1270 Jan 19 j 15:53	0° \mathcal{H}	
morning rise	1267 Jun 03 j 13:59	9° \mathbb{I} 21'12			1270 Feb 12 j 22:39	0° \mathcal{Y}	
direct	1267 Jun 18 j 20:43	4° \mathbb{I} 51'15		asc. node	1270 Mar 03 j 06:54	22° \mathcal{Y} 21'00	
greatest brilliancy	1267 Jun 29 j 07:37	6° \mathbb{I} 48'31	-4.7m		1270 Mar 09 j 15:15	0° \mathcal{B}	
	1267 Aug 01 j 17:12	0° \mathcal{G}			1270 Apr 03 j 23:50	0° \mathbb{I}	
morning max el	1267 Aug 06 j 18:47	4° \mathcal{G} 45'49	45°53'02		1270 Apr 30 j 12:01	0° \mathcal{G}	
	1267 Aug 31 j 04:31	0° \mathcal{Q}		evening max el	1270 May 28 j 08:04	28° \mathcal{G} 47'51	45°21'44
asc. node	1267 Sep 16 j 11:51	18° \mathcal{Q} 17'18			1270 May 29 j 14:24	0° \mathcal{Q}	
	1267 Sep 26 j 14:06	0° \mathbb{M}		desc. node	1270 Jun 22 j 20:05	19° \mathcal{Q} 52'46	
	1267 Oct 21 j 15:58	0° \mathcal{A}		greatest brilliancy	1270 Jul 05 j 16:34	26° \mathcal{Q} 27'53	-4.7m
	1267 Nov 15 j 01:47	0° \mathbb{M}		retrograde	1270 Jul 15 j 20:20	28° \mathcal{Q} 18'17	
	1267 Dec 09 j 04:03	0° \mathcal{X}		evening set	1270 Aug 02 j 02:07	22° \mathcal{Q} 44'59	
desc. node	1268 Jan 02 j 03:38	0° \mathcal{Z}		inferior conj	1270 Aug 06 j 04:35	20° \mathcal{Q} 15'03	-8°07'04
	1268 Jan 06 j 01:02	4° \mathcal{Z} 52'15		minimum elong	1270 Aug 05 j 21:45	20° \mathcal{Q} 25'39	8°06'22
morning set	1268 Jan 26 j 03:04	0° \approx		min. Earth dist.	1270 Aug 06 j 12:04	20° \mathcal{Q} 03'26	0.28657 AU
	1268 Feb 08 j 21:39	17° \approx 12'23		morning rise	1270 Aug 09 j 17:13	18° \mathcal{Q} 05'13	
	1268 Feb 19 j 03:46	0° \mathcal{H}		direct	1270 Aug 27 j 17:22	12° \mathcal{Q} 02'27	
	1268 Mar 14 j 06:45	0° \mathcal{Y}		greatest brilliancy	1270 Sep 07 j 13:13	14° \mathcal{Q} 11'01	-4.8m
superior conj	1268 Mar 19 j 13:36	6° \mathcal{Y} 33'17	-1°16'27		1270 Oct 01 j 18:05	0° \mathbb{M}	
minimum elong	1268 Mar 19 j 22:03	6° \mathcal{Y} 59'26	1°16'16	asc. node	1270 Oct 13 j 23:30	11° \mathbb{M} 18'10	
max. Earth dist.	1268 Mar 22 j 23:17	10° \mathcal{Y} 46'17	1.72678 AU	morning max el	1270 Oct 16 j 19:57	14° \mathbb{M} 08'08	46°33'37
	1268 Apr 07 j 12:39	0° \mathcal{B}			1270 Oct 31 j 22:05	0° \mathcal{A}	
evening rise	1268 Apr 26 j 18:24	23° \mathcal{B} 41'36			1270 Nov 27 j 05:23	0° \mathbb{M}	

	1270 Dec 22 j 06:33	0°♂			1273 May 11 j 21:45	0°♄		
	1271 Jan 15 j 19:54	0°♄			1273 Jun 06 j 08:09	0°♄		
desc. node	1271 Feb 02 j 12:58	21°♄47'10			1273 Jul 02 j 14:34	0°♄		
	1271 Feb 09 j 04:54	0°♄		desc. node	1273 Jul 20 j 08:00	19°♄19'41		
	1271 Mar 05 j 12:49	0°♄			1273 Jul 30 j 14:21	0°♄		
	1271 Mar 29 j 21:11	0°♄		evening max el	1273 Aug 08 j 10:45	8°♄45'40	46°05'53	
morning set	1271 Apr 22 j 03:12	28°♄35'52			1273 Sep 02 j 14:55	0°♄		
	1271 Apr 23 j 06:35	0°♄		greatest brilliancy	1273 Sep 17 j 19:20	7°♄51'55	-4.8m	
	1271 May 17 j 16:49	0°♄		retrograde	1273 Sep 26 j 19:21	9°♄22'04		
asc. node	1271 May 26 j 16:23	11°♄01'41		evening set	1273 Oct 12 j 18:01	4°♄30'51		
max. Earth dist.	1271 May 28 j 15:39	13°♄26'44	1.73613 AU	inferior conj	1273 Oct 17 j 13:10	1°♄40'56	-5°39'56	
				minimum elong	1273 Oct 17 j 23:32	1°♄25'11	5°37'23	
superior conj	1271 May 29 j 00:19	13°♄53'22	0°05'34	min. Earth dist.	1273 Oct 18 j 08:39	1°♄11'20	0.26945 AU	
minimum elong	1271 May 28 j 23:11	13°♄49'52	0°05'30		1273 Oct 20 j 08:02	30°♄		
behind sun begin	1271 May 28 j 01:52	12°♄44'26		morning rise	1273 Oct 23 j 04:25	28°♄21'50		
behind sun end	1271 May 29 j 20:29	14°♄55'18		direct	1273 Nov 07 j 05:06	23°♄53'18		
	1271 Jun 11 j 03:03	0°♄		asc. node	1273 Nov 10 j 11:19	24°♄06'02		
evening rise	1271 Jul 03 j 23:11	28°♄04'55		greatest brilliancy	1273 Nov 18 j 05:36	26°♄10'34	-4.9m	
	1271 Jul 05 j 12:36	0°♄			1273 Nov 25 j 20:33	0°♄		
	1271 Jul 29 j 21:37	0°♄		morning max el	1273 Dec 27 j 23:20	27°♄20'25	46°57'13	
	1271 Aug 23 j 07:08	0°♄			1273 Dec 30 j 13:32	0°♄		
desc. node	1271 Sep 15 j 05:49	28°♄07'45			1274 Jan 26 j 23:04	0°♄		
	1271 Sep 16 j 18:31	0°♄			1274 Feb 21 j 18:21	0°♄		
	1271 Oct 11 j 09:15	0°♄		desc. node	1274 Mar 02 j 00:54	9°♄47'43		
	1271 Nov 05 j 05:53	0°♄			1274 Mar 18 j 23:12	0°♄		
	1271 Nov 30 j 15:31	0°♄			1274 Apr 12 j 21:42	0°♄		
	1271 Dec 27 j 10:56	0°♄			1274 May 07 j 16:59	0°♄		
evening max el	1272 Jan 04 j 04:05	8°♄02'35	47°02'13		1274 Jun 01 j 09:43	0°♄		
asc. node	1272 Jan 06 j 09:04	10°♄16'29		asc. node	1274 Jun 23 j 04:18	26°♄35'04		
	1272 Jan 28 j 11:41	0°♄			1274 Jun 25 j 23:14	0°♄		
greatest brilliancy	1272 Feb 13 j 08:10	9°♄14'08	-4.9m	morning set	1274 Jun 28 j 21:36	3°♄35'39		
retrograde	1272 Feb 23 j 19:58	11°♄18'38			1274 Jul 20 j 08:46	0°♄		
evening set	1272 Mar 12 j 10:32	5°♄18'18		max. Earth dist.	1274 Jul 31 j 21:41	14°♄15'29	1.72939 AU	
inferior conj	1272 Mar 16 j 00:02	3°♄04'31	7°57'25					
minimum elong	1272 Mar 16 j 07:23	2°♄52'52	7°56'32	superior conj	1274 Aug 04 j 06:31	18°♄25'45	1°18'26	
min. Earth dist.	1272 Mar 15 j 18:05	3°♄13'56	0.28341 AU	minimum elong	1274 Aug 04 j 00:13	18°♄06'15	1°18'19	
morning rise	1272 Mar 20 j 04:29	0°♄28'45			1274 Aug 13 j 14:28	0°♄		
	1272 Mar 21 j 00:05	30°♄			1274 Sep 06 j 17:34	0°♄		
direct	1272 Apr 06 j 03:04	24°♄57'52		evening rise	1274 Sep 10 j 01:24	4°♄08'33		
greatest brilliancy	1272 Apr 15 j 14:09	26°♄36'27	-4.8m		1274 Sep 30 j 19:35	0°♄		
	1272 Apr 23 j 06:33	0°♄		desc. node	1274 Oct 12 j 17:39	14°♄51'01		
desc. node	1272 Apr 26 j 22:18	2°♄07'10			1274 Oct 24 j 21:41	0°♄		
morning max el	1272 May 25 j 00:09	25°♄02'03	45°48'13		1274 Nov 18 j 00:49	0°♄		
	1272 May 30 j 02:37	0°♄			1274 Dec 12 j 06:45	0°♄		
	1272 Jun 27 j 14:46	0°♄			1275 Jan 05 j 19:35	0°♄		
	1272 Jul 24 j 02:32	0°♄			1275 Jan 30 j 23:35	0°♄		
asc. node	1272 Aug 18 j 02:02	29°♄27'09		asc. node	1275 Feb 02 j 21:00	3°♄22'21		
	1272 Aug 18 j 13:00	0°♄			1275 Feb 26 j 12:10	0°♄		
	1272 Sep 12 j 06:35	0°♄		evening max el	1275 Mar 16 j 08:12	18°♄29'52	45°53'27	
	1272 Oct 06 j 12:49	0°♄			1275 Mar 28 j 17:44	0°♄		
	1272 Oct 30 j 12:25	0°♄		greatest brilliancy	1275 Apr 23 j 11:34	17°♄02'30	-4.7m	
greatest brilliancy	1272 Nov 02 j 22:54	4°♄18'53	-3.9m	retrograde	1275 May 04 j 12:13	19°♄14'58		
morning set	1272 Nov 20 j 02:01	25°♄51'11		evening set	1275 May 19 j 14:01	14°♄49'26		
	1272 Nov 23 j 09:05	0°♄		desc. node	1275 May 25 j 10:10	11°♄20'00		
desc. node	1272 Dec 07 j 15:15	17°♄56'43		inferior conj	1275 May 25 j 22:55	11°♄00'03	-0°07'30	
	1272 Dec 17 j 05:08	0°♄		minimum elong	1275 May 25 j 22:38	11°♄00'29	0°07'25	
				transit middle	1275 May 25 j 22:38	11°♄00'29	0°07'25	
superior conj	1272 Dec 31 j 18:59	18°♄20'07	-0°53'30	transit begin	1275 May 25 j 19:02	11°♄06'08		
minimum elong	1272 Dec 31 j 07:21	17°♄43'34	0°53'03	transit end	1275 May 26 j 02:15	10°♄54'50		
max. Earth dist.	1273 Jan 03 j 07:56	21°♄31'36	1.71199 AU	min. Earth dist.	1275 May 25 j 23:33	10°♄59'02	0.28946 AU	
	1273 Jan 10 j 01:52	0°♄		morning rise	1275 Jun 01 j 07:22	7°♄11'16		
	1273 Feb 03 j 00:31	0°♄		direct	1275 Jun 16 j 13:33	2°♄42'22		
evening rise	1273 Feb 10 j 20:43	9°♄47'22		greatest brilliancy	1275 Jun 26 j 23:09	4°♄39'00	-4.7m	
	1273 Feb 27 j 02:32	0°♄			1275 Aug 01 j 17:19	0°♄		
	1273 Mar 23 j 09:38	0°♄		morning max el	1275 Aug 04 j 11:36	2°♄37'15	45°51'57	
asc. node	1273 Mar 30 j 18:47	9°♄03'07			1275 Aug 30 j 20:47	0°♄		
	1273 Apr 16 j 23:25	0°♄		asc. node	1275 Sep 15 j 13:49	17°♄41'09		

	1275 Sep 26 j 03:53	0°♍			1278 May 29 j 14:04	0°♎	
	1275 Oct 21 j 04:39	0°♊		desc. node	1278 Jun 21 j 22:15	18°♎36'45	
	1275 Nov 14 j 13:52	0°♋		greatest brilliancy	1278 Jul 03 j 07:13	24°♎15'57	-4.7m
	1275 Dec 08 j 15:48	0°♌		retrograde	1278 Jul 13 j 11:01	26°♎06'48	
	1276 Jan 01 j 15:08	0°♍		evening set	1278 Jul 30 j 14:25	20°♎37'57	
desc. node	1276 Jan 05 j 03:09	4°♍22'55		inferior conj	1278 Aug 03 j 20:14	18°♎03'08	-7°59'13
	1276 Jan 25 j 14:24	0°♎		minimum elong	1278 Aug 03 j 12:51	18°♎14'36	7°58'22
morning set	1276 Feb 06 j 08:39	14°♎41'45		min. Earth dist.	1278 Aug 04 j 03:19	17°♎52'07	0.28691 AU
	1276 Feb 18 j 14:59	0°♏		morning rise	1278 Aug 07 j 11:04	15°♎49'47	
	1276 Mar 13 j 17:50	0°♐		direct	1278 Aug 25 j 08:54	9°♎49'57	
				greatest brilliancy	1278 Sep 05 j 05:06	11°♎58'07	-4.8m
superior conj	1276 Mar 17 j 03:52	4°♐14'26	-1°18'01		1278 Oct 01 j 23:36	0°♑	
minimum elong	1276 Mar 17 j 11:50	4°♐39'07	1°17'51	asc. node	1278 Oct 13 j 01:33	10°♑26'51	
max. Earth dist.	1276 Mar 20 j 16:33	8°♐36'52	1.72623 AU	morning max el	1278 Oct 14 j 09:33	11°♑46'36	46°32'01
	1276 Apr 06 j 23:39	0°♒			1278 Oct 31 j 15:50	0°♑	
evening rise	1276 Apr 24 j 11:16	21°♒32'13			1278 Nov 26 j 19:59	0°♒	
asc. node	1276 Apr 27 j 06:38	24°♒59'07			1278 Dec 21 j 19:45	0°♓	
	1276 May 01 j 08:40	0°♑			1279 Jan 15 j 08:18	0°♓	
	1276 May 25 j 20:48	0°♒		desc. node	1279 Feb 01 j 15:04	21°♓16'42	
	1276 Jun 19 j 12:19	0°♎			1279 Feb 08 j 16:46	0°♑	
	1276 Jul 14 j 08:27	0°♏			1279 Mar 05 j 00:16	0°♏	
	1276 Aug 08 j 11:48	0°♊			1279 Mar 29 j 08:18	0°♐	
desc. node	1276 Aug 16 j 19:50	9°♊50'10		morning set	1279 Apr 19 j 19:57	26°♐26'16	
	1276 Sep 03 j 03:00	0°♋			1279 Apr 22 j 17:30	0°♒	
	1276 Sep 29 j 16:20	0°♌			1279 May 17 j 03:37	0°♑	
evening max el	1276 Oct 20 j 20:08	22°♌21'35	47°12'18	asc. node	1279 May 25 j 18:32	10°♑35'12	
	1276 Oct 28 j 15:57	0°♍					
greatest brilliancy	1276 Nov 30 j 07:33	23°♍32'10	-4.9m	superior conj	1279 May 26 j 18:27	11°♑48'37	0°02'24
asc. node	1276 Dec 07 j 23:15	25°♍23'48		minimum elong	1279 May 26 j 17:57	11°♑47'04	0°02'22
retrograde	1276 Dec 10 j 13:21	25°♍31'55		behind sun begin	1279 May 25 j 19:35	10°♑38'26	
evening set	1276 Dec 25 j 12:52	21°♍01'28		behind sun end	1279 May 27 j 16:18	12°♑55'42	
min. Earth dist.	1276 Dec 30 j 06:48	18°♍12'28	0.26704 AU	max. Earth dist.	1279 May 26 j 10:53	11°♑25'21	1.73605 AU
inferior conj	1276 Dec 31 j 03:10	17°♍41'06	5°33'28		1279 Jun 10 j 13:50	0°♒	
minimum elong	1276 Dec 30 j 17:05	17°♍56'38	5°30'56	evening rise	1279 Jul 01 j 18:16	26°♒02'42	
morning rise	1277 Jan 04 j 21:52	14°♍49'51			1279 Jul 04 j 23:26	0°♎	
direct	1277 Jan 20 j 13:14	10°♍01'32			1279 Jul 29 j 08:38	0°♏	
greatest brilliancy	1277 Jan 29 j 16:33	11°♍37'14	-4.9m		1279 Aug 22 j 18:28	0°♊	
	1277 Feb 26 j 16:39	0°♋		desc. node	1279 Sep 14 j 07:47	27°♊37'43	
morning max el	1277 Mar 11 j 09:48	11°♋54'12	46°27'16		1279 Sep 16 j 06:22	0°♋	
	1277 Mar 28 j 22:51	0°♌			1279 Oct 10 j 21:48	0°♌	
desc. node	1277 Mar 29 j 12:37	0°♌36'53			1279 Nov 04 j 19:31	0°♍	
	1277 Apr 25 j 00:43	0°♐			1279 Nov 30 j 07:00	0°♎	
	1277 May 21 j 00:20	0°♒			1279 Dec 27 j 06:51	0°♏	
	1277 Jun 15 j 10:21	0°♑		evening max el	1280 Jan 01 j 17:33	5°♏38'39	47°04'04
	1277 Jul 10 j 10:27	0°♒		asc. node	1280 Jan 05 j 11:11	9°♏24'05	
asc. node	1277 Jul 20 j 16:12	12°♒24'55			1280 Jan 29 j 07:33	0°♐	
	1277 Aug 04 j 01:41	0°♎		greatest brilliancy	1280 Feb 11 j 00:35	6°♐58'08	-4.9m
	1277 Aug 28 j 09:12	0°♏		retrograde	1280 Feb 21 j 11:17	9°♐02'16	
morning set	1277 Sep 05 j 13:26	10°♏09'49		evening set	1280 Mar 10 j 04:14	2°♐58'34	
	1277 Sep 21 j 10:58	0°♊		inferior conj	1280 Mar 13 j 15:22	0°♐48'34	8°05'53
max. Earth dist.	1277 Oct 11 j 08:46	24°♊56'44	1.71476 AU	minimum elong	1280 Mar 13 j 22:11	0°♐37'47	8°05'08
				min. Earth dist.	1280 Mar 13 j 08:56	0°♐58'46	0.28301 AU
superior conj	1277 Oct 13 j 14:47	27°♊46'08	0°57'50		1280 Mar 14 j 22:07	30°♑♏	
minimum elong	1277 Oct 14 j 01:16	28°♊19'02	0°57'27	morning rise	1280 Mar 17 j 16:20	28°♑18'02	
	1277 Oct 15 j 09:27	0°♋		direct	1280 Apr 03 j 17:08	22°♑42'28	
	1277 Nov 08 j 06:38	0°♌		greatest brilliancy	1280 Apr 13 j 04:29	24°♑21'07	-4.8m
desc. node	1277 Nov 09 j 05:33	1°♌11'59			1280 Apr 24 j 18:07	0°♐	
evening rise	1277 Nov 23 j 06:18	18°♌49'27		desc. node	1280 Apr 26 j 00:22	0°♐48'00	
	1277 Dec 02 j 03:52	0°♍		morning max el	1280 May 22 j 14:54	22°♐48'05	45°49'03
	1277 Dec 26 j 02:14	0°♎			1280 May 29 j 23:07	0°♒	
	1278 Jan 19 j 03:27	0°♏			1280 Jun 27 j 05:53	0°♑	
	1278 Feb 12 j 10:30	0°♐			1280 Jul 23 j 15:32	0°♒	
asc. node	1278 Mar 02 j 08:52	21°♐50'00		asc. node	1280 Aug 17 j 03:57	28°♒57'01	
	1278 Mar 09 j 03:40	0°♒			1280 Aug 18 j 00:58	0°♎	
	1278 Apr 03 j 13:21	0°♑			1280 Sep 11 j 18:00	0°♏	
	1278 Apr 30 j 04:02	0°♒			1280 Oct 05 j 23:57	0°♊	
evening max el	1278 May 25 j 22:51	26°♒34'23	45°21'32		1280 Oct 29 j 23:27	0°♋	

greatest brilliancy	1280 Nov 03 j 16:24	5° \mathbb{M} 54'37	-3.9m	retrograde	1283 May 02 j 05:12	17° \mathbb{I} 06'27	
morning set	1280 Nov 17 j 13:13	23° \mathbb{M} 20'47		evening set	1283 May 17 j 07:18	12° \mathbb{I} 40'03	
	1280 Nov 22 j 20:06	0° \mathbb{X}		inferior conj	1283 May 23 j 15:18	8° \mathbb{I} 51'25	0°12'22
desc. node	1280 Dec 06 j 17:24	17° \mathbb{X} 28'55		minimum elong	1283 May 23 j 15:46	8° \mathbb{I} 50'42	0°12'14
	1280 Dec 16 j 16:08	0° \mathbb{Z}		transit middle	1283 May 23 j 15:46	8° \mathbb{I} 50'42	0°12'14
				transit begin	1283 May 23 j 13:06	8° \mathbb{I} 54'53	
superior conj	1280 Dec 29 j 04:38	15° \mathbb{Z} 45'00	-0°50'18	transit end	1283 May 23 j 18:26	8° \mathbb{I} 46'31	
minimum elong	1280 Dec 28 j 17:17	15° \mathbb{Z} 09'23	0°49'50	min. Earth dist.	1283 May 23 j 15:47	8° \mathbb{I} 50'40	0.28936 AU
max. Earth dist.	1280 Dec 31 j 11:12	18° \mathbb{Z} 36'31	1.71178 AU	desc. node	1283 May 24 j 12:19	8° \mathbb{I} 18'31	
	1281 Jan 09 j 12:52	0° \approx		morning rise	1283 May 30 j 00:26	5° \mathbb{I} 01'46	
	1281 Feb 02 j 11:30	0° \mathbb{X}		direct	1283 Jun 14 j 06:17	0° \mathbb{I} 34'06	
evening rise	1281 Feb 08 j 07:51	7° \mathbb{X} 18'09		greatest brilliancy	1283 Jun 24 j 14:07	2° \mathbb{I} 29'26	-4.7m
	1281 Feb 26 j 13:34	0° \mathbb{Y}			1283 Aug 01 j 15:57	0° \mathbb{G}	
	1281 Mar 22 j 20:46	0° \mathbb{B}		morning max el	1283 Aug 02 j 03:47	0° \mathbb{G} 28'18	45°50'57
asc. node	1281 Mar 29 j 20:48	8° \mathbb{B} 35'04			1283 Aug 30 j 12:22	0° \mathbb{Q}	
	1281 Apr 16 j 10:49	0° \mathbb{I}		asc. node	1283 Sep 14 j 15:52	17° \mathbb{Q} 06'46	
	1281 May 11 j 09:42	0° \mathbb{G}			1283 Sep 25 j 17:08	0° \mathbb{M}	
	1281 Jun 05 j 21:09	0° \mathbb{Q}			1283 Oct 20 j 16:51	0° \mathbb{L}	
	1281 Jul 02 j 05:43	0° \mathbb{M}			1283 Nov 14 j 01:31	0° \mathbb{M}	
desc. node	1281 Jul 19 j 10:00	18° \mathbb{M} 37'42			1283 Dec 08 j 03:07	0° \mathbb{X}	
	1281 Jul 30 j 10:52	0° \mathbb{L}			1284 Jan 01 j 02:13	0° \mathbb{Z}	
evening max el	1281 Aug 06 j 00:26	6° \mathbb{L} 27'03	46°03'38	desc. node	1284 Jan 04 j 05:12	3° \mathbb{Z} 54'44	
	1281 Sep 03 j 19:37	0° \mathbb{M}			1284 Jan 25 j 01:19	0° \approx	
greatest brilliancy	1281 Sep 15 j 07:24	5° \mathbb{M} 28'11	-4.8m	morning set	1284 Feb 03 j 19:56	12° \approx 13'14	
retrograde	1281 Sep 24 j 08:28	6° \mathbb{M} 58'50			1284 Feb 18 j 01:45	0° \mathbb{X}	
evening set	1281 Oct 10 j 09:57	2° \mathbb{M} 02'36			1284 Mar 13 j 04:31	0° \mathbb{Y}	
	1281 Oct 13 j 21:36	30° \mathbb{R} \mathbb{L}					
inferior conj	1281 Oct 15 j 02:03	29° \mathbb{L} 16'53	-5°57'29	superior conj	1284 Mar 14 j 18:06	1° \mathbb{Y} 56'34	-1°19'26
minimum elong	1281 Oct 15 j 12:35	29° \mathbb{L} 00'53	5°54'59	minimum elong	1284 Mar 15 j 01:30	2° \mathbb{Y} 19'34	1°19'18
min. Earth dist.	1281 Oct 15 j 21:56	28° \mathbb{L} 46'41	0.27006 AU	max. Earth dist.	1284 Mar 18 j 10:54	6° \mathbb{Y} 31'55	1.72573 AU
morning rise	1281 Oct 20 j 14:39	26° \mathbb{L} 01'39			1284 Apr 06 j 10:17	0° \mathbb{B}	
direct	1281 Nov 04 j 19:05	21° \mathbb{L} 28'17		evening rise	1284 Apr 22 j 03:50	19° \mathbb{B} 22'47	
asc. node	1281 Nov 09 j 13:23	21° \mathbb{L} 55'18		asc. node	1284 Apr 26 j 08:46	24° \mathbb{B} 32'53	
greatest brilliancy	1281 Nov 15 j 19:39	23° \mathbb{L} 46'04	-4.9m		1284 Apr 30 j 19:21	0° \mathbb{I}	
	1281 Nov 27 j 04:45	0° \mathbb{M}			1284 May 25 j 07:39	0° \mathbb{G}	
morning max el	1281 Dec 25 j 14:25	24° \mathbb{M} 59'23	46°57'16		1284 Jun 18 j 23:30	0° \mathbb{Q}	
	1281 Dec 30 j 10:45	0° \mathbb{X}			1284 Jul 13 j 20:13	0° \mathbb{M}	
	1282 Jan 26 j 14:55	0° \mathbb{Z}			1284 Aug 08 j 00:31	0° \mathbb{L}	
	1282 Feb 21 j 08:01	0° \approx		desc. node	1284 Aug 15 j 21:49	9° \mathbb{L} 17'19	
desc. node	1282 Mar 01 j 02:50	9° \approx 14'07			1284 Sep 02 j 17:22	0° \mathbb{M}	
	1282 Mar 18 j 11:41	0° \mathbb{X}			1284 Sep 29 j 10:01	0° \mathbb{X}	
	1282 Apr 12 j 09:27	0° \mathbb{Y}		evening max el	1284 Oct 18 j 10:29	19° \mathbb{X} 59'14	47°10'46
	1282 May 07 j 04:13	0° \mathbb{B}			1284 Oct 28 j 19:34	0° \mathbb{Z}	
	1282 May 31 j 20:36	0° \mathbb{I}		greatest brilliancy	1284 Nov 27 j 21:38	21° \mathbb{Z} 05'25	-4.9m
asc. node	1282 Jun 22 j 06:23	26° \mathbb{I} 08'45		asc. node	1284 Dec 07 j 01:22	23° \mathbb{Z} 02'15	
	1282 Jun 25 j 09:53	0° \mathbb{G}		retrograde	1284 Dec 08 j 02:10	23° \mathbb{Z} 03'33	
morning set	1282 Jun 26 j 15:38	1° \mathbb{G} 31'07		evening set	1284 Dec 22 j 22:57	18° \mathbb{Z} 37'59	
	1282 Jul 19 j 19:21	0° \mathbb{Q}		min. Earth dist.	1284 Dec 27 j 20:22	15° \mathbb{Z} 44'02	0.26655 AU
max. Earth dist.	1282 Jul 29 j 17:38	12° \mathbb{Q} 15'54	1.72983 AU	inferior conj	1284 Dec 28 j 15:48	15° \mathbb{Z} 14'06	5°14'28
				minimum elong	1284 Dec 28 j 05:58	15° \mathbb{Z} 29'14	5°11'55
superior conj	1282 Aug 02 j 00:15	16° \mathbb{Q} 19'10	1°17'10	morning rise	1285 Jan 02 j 13:32	12° \mathbb{Z} 18'27	
minimum elong	1282 Aug 01 j 17:30	15° \mathbb{Q} 58'15	1°17'01	direct	1285 Jan 18 j 01:30	7° \mathbb{Z} 35'26	
	1282 Aug 13 j 01:07	0° \mathbb{M}		greatest brilliancy	1285 Jan 27 j 05:57	9° \mathbb{Z} 11'45	-4.9m
	1282 Sep 06 j 04:21	0° \mathbb{L}			1285 Feb 26 j 21:56	0° \approx	
evening rise	1282 Sep 07 j 16:55	1° \mathbb{L} 53'47		morning max el	1285 Mar 08 j 22:07	9° \approx 29'52	46°28'49
	1282 Sep 30 j 06:34	0° \mathbb{M}		desc. node	1285 Mar 28 j 14:46	29° \approx 55'19	
desc. node	1282 Oct 11 j 19:43	14° \mathbb{M} 22'59			1285 Mar 28 j 16:30	0° \mathbb{X}	
	1282 Oct 24 j 08:54	0° \mathbb{X}			1285 Apr 24 j 14:53	0° \mathbb{Y}	
	1282 Nov 17 j 12:19	0° \mathbb{Z}			1285 May 20 j 12:54	0° \mathbb{B}	
	1282 Dec 11 j 18:41	0° \approx			1285 Jun 14 j 22:01	0° \mathbb{I}	
	1283 Jan 05 j 08:14	0° \mathbb{X}			1285 Jul 09 j 21:36	0° \mathbb{G}	
	1283 Jan 30 j 13:33	0° \mathbb{Y}		asc. node	1285 Jul 19 j 18:08	11° \mathbb{G} 57'20	
asc. node	1283 Feb 01 j 22:55	2° \mathbb{Y} 46'43			1285 Aug 03 j 12:33	0° \mathbb{Q}	
	1283 Feb 26 j 05:17	0° \mathbb{B}			1285 Aug 27 j 19:56	0° \mathbb{M}	
evening max el	1283 Mar 14 j 00:49	16° \mathbb{B} 19'57	45°55'34	morning set	1285 Sep 03 j 05:08	7° \mathbb{M} 56'00	
	1283 Mar 28 j 23:02	0° \mathbb{I}			1285 Sep 20 j 21:41	0° \mathbb{L}	
greatest brilliancy	1283 Apr 21 j 04:12	14° \mathbb{I} 54'09	-4.7m	max. Earth dist.	1285 Oct 08 j 17:20	22° \mathbb{L} 19'20	1.71521 AU

superior conj	1285 Oct 11 j 03:54	25° Ω 22'58	1°00'28	min. Earth dist.	1288 Mar 10 j 23:23	28° \mathbb{H} 43'37	0.28260 AU
minimum elong	1285 Oct 11 j 14:21	25° Ω 55'45	1°00'06	morning rise	1288 Mar 15 j 04:12	26° \mathbb{H} 07'00	
	1285 Oct 14 j 20:13	0° \mathbb{M}		direct	1288 Apr 01 j 07:21	20° \mathbb{H} 26'40	
	1285 Nov 07 j 17:31	0° \mathbb{A}		greatest brilliancy	1288 Apr 10 j 18:25	22° \mathbb{H} 05'17	-4.8m
desc. node	1285 Nov 08 j 07:39	0° \mathbb{A} 44'23		desc. node	1288 Apr 25 j 02:26	29° \mathbb{H} 31'22	
evening rise	1285 Nov 20 j 16:36	16° \mathbb{A} 16'42			1288 Apr 25 j 19:17	0° \mathbb{Y}	
	1285 Dec 01 j 14:53	0° \mathbb{Z}		morning max el	1288 May 20 j 06:28	20° \mathbb{Y} 36'10	45°49'59
	1285 Dec 25 j 13:22	0° \approx			1288 May 29 j 18:55	0° \mathbb{B}	
	1286 Jan 18 j 14:44	0° \mathbb{H}			1288 Jun 26 j 20:43	0° \mathbb{I}	
	1286 Feb 11 j 22:03	0° \mathbb{Y}			1288 Jul 23 j 04:25	0° \mathbb{G}	
asc. node	1286 Mar 01 j 10:57	21° \mathbb{Y} 20'12		asc. node	1288 Aug 16 j 06:02	28° \mathbb{G} 27'24	
	1286 Mar 08 j 15:47	0° \mathbb{B}			1288 Aug 17 j 12:54	0° \mathbb{Q}	
	1286 Apr 03 j 02:39	0° \mathbb{I}			1288 Sep 11 j 05:27	0° \mathbb{M}	
	1286 Apr 29 j 20:02	0° \mathbb{G}			1288 Oct 05 j 11:11	0° \mathbb{Q}	
evening max el	1286 May 23 j 13:12	24° \mathbb{G} 20'35	45°21'17		1288 Oct 29 j 10:35	0° \mathbb{M}	
	1286 May 29 j 14:38	0° \mathbb{Q}		greatest brilliancy	1288 Nov 04 j 03:03	7° \mathbb{M} 08'30	-3.9m
desc. node	1286 Jun 21 j 00:15	17° \mathbb{Q} 18'30		morning set	1288 Nov 15 j 00:23	20° \mathbb{M} 50'01	
greatest brilliancy	1286 Jun 30 j 21:20	22° \mathbb{Q} 03'44	-4.7m		1288 Nov 22 j 07:11	0° \mathbb{A}	
retrograde	1286 Jul 11 j 01:52	23° \mathbb{Q} 55'44		desc. node	1288 Dec 05 j 19:23	17° \mathbb{A} 00'21	
evening set	1286 Jul 28 j 02:29	18° \mathbb{Q} 31'08			1288 Dec 16 j 03:11	0° \mathbb{Z}	
inferior conj	1286 Aug 01 j 11:47	15° \mathbb{Q} 51'25	-7°50'30				
minimum elong	1286 Aug 01 j 03:53	16° \mathbb{Q} 03'41	7°49'31	superior conj	1288 Dec 26 j 14:01	13° \mathbb{Z} 08'55	-0°46'57
min. Earth dist.	1286 Aug 01 j 18:31	15° \mathbb{Q} 40'58	0.28725 AU	minimum elong	1288 Dec 26 j 03:06	12° \mathbb{Z} 34'35	0°46'31
morning rise	1286 Aug 05 j 05:02	13° \mathbb{Q} 34'27		max. Earth dist.	1288 Dec 28 j 17:56	15° \mathbb{Z} 52'06	1.71156 AU
direct	1286 Aug 23 j 00:11	7° \mathbb{Q} 37'33			1289 Jan 08 j 23:54	0° \approx	
greatest brilliancy	1286 Sep 02 j 21:17	9° \mathbb{Q} 46'02	-4.8m		1289 Feb 01 j 22:33	0° \mathbb{H}	
	1286 Oct 02 j 03:04	0° \mathbb{M}		evening rise	1289 Feb 05 j 18:56	4° \mathbb{H} 48'30	
morning max el	1286 Oct 11 j 23:43	9° \mathbb{M} 27'14	46°30'34		1289 Feb 26 j 00:40	0° \mathbb{Y}	
asc. node	1286 Oct 12 j 03:42	9° \mathbb{M} 37'11			1289 Mar 22 j 08:01	0° \mathbb{B}	
	1286 Oct 31 j 08:58	0° \mathbb{Q}		asc. node	1289 Mar 28 j 22:57	8° \mathbb{B} 07'04	
	1286 Nov 26 j 10:10	0° \mathbb{M}			1289 Apr 15 j 22:21	0° \mathbb{I}	
	1286 Dec 21 j 08:37	0° \mathbb{A}			1289 May 10 j 21:48	0° \mathbb{G}	
	1287 Jan 14 j 20:26	0° \mathbb{Z}			1289 Jun 05 j 10:22	0° \mathbb{Q}	
desc. node	1287 Jan 31 j 16:57	20° \mathbb{Z} 46'17			1289 Jul 01 j 21:13	0° \mathbb{M}	
	1287 Feb 08 j 04:24	0° \approx		desc. node	1289 Jul 18 j 11:59	17° \mathbb{M} 54'45	
	1287 Mar 04 j 11:30	0° \mathbb{H}			1289 Jul 30 j 08:18	0° \mathbb{Q}	
	1287 Mar 28 j 19:15	0° \mathbb{Y}		evening max el	1289 Aug 03 j 14:46	4° \mathbb{Q} 09'41	46°01'11
morning set	1287 Apr 17 j 12:41	24° \mathbb{Y} 17'01			1289 Sep 05 j 13:35	0° \mathbb{M}	
	1287 Apr 22 j 04:14	0° \mathbb{B}		greatest brilliancy	1289 Sep 12 j 19:08	3° \mathbb{M} 03'25	-4.8m
	1287 May 16 j 14:15	0° \mathbb{I}		retrograde	1289 Sep 21 j 21:13	4° \mathbb{M} 34'21	
					1289 Oct 07 j 06:37	30° \mathbb{R} \mathbb{Q}	
superior conj	1287 May 24 j 12:33	9° \mathbb{I} 44'18	-0°00'49	evening set	1289 Oct 08 j 01:49	29° \mathbb{Q} 33'16	
minimum elong	1287 May 24 j 12:42	9° \mathbb{I} 44'47	0°00'48	inferior conj	1289 Oct 12 j 14:46	26° \mathbb{Q} 51'41	-6°14'19
behind sun begin	1287 May 23 j 14:11	8° \mathbb{I} 35'39		minimum elong	1289 Oct 13 j 01:23	26° \mathbb{Q} 35'32	6°11'55
behind sun end	1287 May 25 j 11:13	10° \mathbb{I} 53'55		min. Earth dist.	1289 Oct 13 j 10:55	26° \mathbb{Q} 21'04	0.27070 AU
max. Earth dist.	1287 May 24 j 07:01	9° \mathbb{I} 27'18	1.73599 AU	morning rise	1289 Oct 18 j 00:28	23° \mathbb{Q} 40'25	
asc. node	1287 May 24 j 20:38	10° \mathbb{I} 09'11		direct	1289 Nov 02 j 09:14	19° \mathbb{Q} 02'12	
	1287 Jun 10 j 00:27	0° \mathbb{G}		asc. node	1289 Nov 08 j 15:27	19° \mathbb{Q} 48'28	
evening rise	1287 Jun 29 j 13:21	24° \mathbb{G} 00'56		greatest brilliancy	1289 Nov 13 j 09:15	21° \mathbb{Q} 19'48	-4.9m
	1287 Jul 04 j 10:10	0° \mathbb{Q}			1289 Nov 28 j 04:29	0° \mathbb{M}	
	1287 Jul 28 j 19:35	0° \mathbb{M}		morning max el	1289 Dec 23 j 05:05	22° \mathbb{M} 36'20	46°57'17
	1287 Aug 22 j 05:47	0° \mathbb{Q}			1289 Dec 30 j 07:37	0° \mathbb{A}	
desc. node	1287 Sep 13 j 09:52	27° \mathbb{Q} 08'04			1290 Jan 26 j 06:47	0° \mathbb{Z}	
	1287 Sep 15 j 18:12	0° \mathbb{M}			1290 Feb 20 j 21:47	0° \approx	
	1287 Oct 10 j 10:22	0° \mathbb{A}		desc. node	1290 Feb 28 j 05:01	8° \approx 40'50	
	1287 Nov 04 j 09:09	0° \mathbb{Z}			1290 Mar 18 j 00:18	0° \mathbb{H}	
	1287 Nov 29 j 22:36	0° \approx			1290 Apr 11 j 21:21	0° \mathbb{Y}	
	1287 Dec 27 j 03:19	0° \mathbb{H}			1290 May 06 j 15:38	0° \mathbb{B}	
evening max el	1287 Dec 30 j 07:35	3° \mathbb{H} 16'22	47°05'54		1290 May 31 j 07:41	0° \mathbb{I}	
asc. node	1288 Jan 04 j 13:08	8° \mathbb{H} 30'30		asc. node	1290 Jun 21 j 08:21	25° \mathbb{I} 41'24	
	1288 Jan 30 j 10:42	0° \mathbb{Y}		morning set	1290 Jun 24 j 09:53	29° \mathbb{I} 26'36	
greatest brilliancy	1288 Feb 08 j 16:20	4° \mathbb{Y} 41'13	-4.9m		1290 Jun 24 j 20:47	0° \mathbb{G}	
retrograde	1288 Feb 19 j 02:57	6° \mathbb{Y} 45'44			1290 Jul 19 j 06:10	0° \mathbb{Q}	
evening set	1288 Mar 07 j 21:36	0° \mathbb{Y} 38'42		max. Earth dist.	1290 Jul 27 j 12:33	10° \mathbb{Q} 12'30	1.73024 AU
	1288 Mar 08 j 22:45	30° \mathbb{R} \mathbb{H}					
inferior conj	1288 Mar 11 j 06:35	28° \mathbb{H} 32'14	8°13'31	superior conj	1290 Jul 30 j 18:17	14° \mathbb{Q} 12'52	1°15'47
minimum elong	1288 Mar 11 j 12:48	28° \mathbb{H} 22'26	8°12'55	minimum elong	1290 Jul 30 j 11:08	13° \mathbb{Q} 50'45	1°15'38

	1290 Aug 12 j 12:00	0°♍			1293 Feb 27 j 02:03	0°♍	
evening rise	1290 Sep 05 j 08:42	29°♍39'11		morning max el	1293 Mar 06 j 10:13	7°♍03'08	46°30'24
	1290 Sep 05 j 15:23	0°♌		desc. node	1293 Mar 27 j 16:49	29°♍12'31	
	1290 Sep 29 j 17:50	0°♍			1293 Mar 28 j 10:18	0°♋	
desc. node	1290 Oct 10 j 21:51	13°♍54'08			1293 Apr 24 j 05:23	0°♍	
	1290 Oct 23 j 20:27	0°♌			1293 May 20 j 01:47	0°♋	
	1290 Nov 17 j 00:13	0°♌			1293 Jun 14 j 10:01	0°♌	
	1290 Dec 11 j 07:03	0°♍			1293 Jul 09 j 09:05	0°♌	
	1291 Jan 04 j 21:19	0°♋		asc. node	1293 Jul 18 j 20:12	11°♌29'06	
	1291 Jan 30 j 04:02	0°♍			1293 Aug 02 j 23:46	0°♌	
asc. node	1291 Feb 01 j 01:01	2°♍10'22			1293 Aug 27 j 07:01	0°♍	
	1291 Feb 25 j 23:09	0°♋		morning set	1293 Aug 31 j 21:06	5°♍41'54	
evening max el	1291 Mar 11 j 17:00	14°♋07'52	45°57'48		1293 Sep 20 j 08:45	0°♌	
	1291 Mar 29 j 07:04	0°♌		max. Earth dist.	1293 Oct 06 j 04:25	19°♌48'48	1.71564 AU
greatest brilliancy	1291 Apr 18 j 21:25	12°♌45'33	-4.7m				
retrograde	1291 Apr 29 j 21:39	14°♌56'57		superior conj	1293 Oct 08 j 17:30	23°♌00'19	1°02'57
evening set	1291 May 15 j 00:47	10°♌29'35		minimum elong	1293 Oct 09 j 03:51	23°♌32'47	1°02'37
inferior conj	1291 May 21 j 07:44	6°♌41'57	0°32'10		1293 Oct 14 j 07:19	0°♍	
minimum elong	1291 May 21 j 08:55	6°♌40'06	0°31'49	desc. node	1293 Nov 07 j 09:39	0°♌15'27	
min. Earth dist.	1291 May 21 j 08:20	6°♌41'01	0.28924 AU		1293 Nov 07 j 04:43	0°♌	
desc. node	1291 May 23 j 14:20	5°♌16'41		evening rise	1293 Nov 18 j 03:25	13°♌44'41	
morning rise	1291 May 27 j 17:19	2°♌51'21			1293 Dec 01 j 02:12	0°♌	
	1291 Jun 02 j 23:39	30°♋♌			1293 Dec 25 j 00:49	0°♍	
direct	1291 Jun 11 j 22:50	28°♋24'57			1294 Jan 18 j 02:23	0°♋	
	1291 Jun 21 j 06:58	0°♌			1294 Feb 11 j 10:02	0°♍	
greatest brilliancy	1291 Jun 22 j 05:23	0°♌19'04	-4.7m	asc. node	1294 Feb 28 j 13:02	20°♍49'08	
morning max el	1291 Jul 30 j 19:14	28°♌16'40	45°50'05		1294 Mar 08 j 04:23	0°♋	
	1291 Aug 01 j 14:05	0°♌			1294 Apr 02 j 16:31	0°♌	
	1291 Aug 30 j 04:01	0°♌			1294 Apr 29 j 12:45	0°♌	
asc. node	1291 Sep 13 j 18:00	16°♌32'01		evening max el	1294 May 21 j 03:48	22°♌06'25	45°21'22
	1291 Sep 25 j 06:35	0°♍			1294 May 29 j 17:00	0°♌	
	1291 Oct 20 j 05:18	0°♌		desc. node	1294 Jun 20 j 02:14	15°♌56'56	
	1291 Nov 13 j 13:29	0°♍		greatest brilliancy	1294 Jun 28 j 10:57	19°♌50'16	-4.7m
	1291 Dec 07 j 14:47	0°♌		retrograde	1294 Jul 08 j 17:21	21°♌44'13	
	1291 Dec 31 j 13:43	0°♌		evening set	1294 Jul 25 j 14:37	16°♌23'36	
desc. node	1292 Jan 03 j 07:11	3°♌25'03		inferior conj	1294 Jul 30 j 03:25	13°♌39'01	-7°41'09
	1292 Jan 24 j 12:39	0°♍		minimum elong	1294 Jul 29 j 19:03	13°♌52'01	7°40'01
morning set	1292 Feb 01 j 06:36	9°♍41'22		min. Earth dist.	1294 Jul 30 j 09:30	13°♌29'35	0.28759 AU
	1292 Feb 17 j 12:58	0°♋		morning rise	1294 Aug 02 j 23:11	11°♌18'26	
				direct	1294 Aug 20 j 15:50	5°♌24'27	
superior conj	1292 Mar 12 j 07:50	29°♋35'55	-1°20'44	greatest brilliancy	1294 Aug 31 j 13:24	7°♌33'18	-4.8m
minimum elong	1292 Mar 12 j 14:39	29°♋57'03	1°20'38		1294 Oct 02 j 05:21	0°♍	
	1292 Mar 12 j 15:36	0°♍		morning max el	1294 Oct 09 j 15:03	7°♍10'06	46°29'13
max. Earth dist.	1292 Mar 16 j 04:48	4°♍24'19	1.72515 AU	asc. node	1294 Oct 11 j 05:40	8°♍47'06	
	1292 Apr 05 j 21:18	0°♋			1294 Oct 31 j 02:03	0°♌	
evening rise	1292 Apr 19 j 20:02	17°♋11'02			1294 Nov 26 j 00:28	0°♍	
asc. node	1292 Apr 25 j 10:46	24°♋05'06			1294 Dec 20 j 21:39	0°♌	
	1292 Apr 30 j 06:24	0°♌			1295 Jan 14 j 08:44	0°♌	
	1292 May 24 j 18:54	0°♌		desc. node	1295 Jan 30 j 19:09	20°♌16'14	
	1292 Jun 18 j 11:07	0°♌			1295 Feb 07 j 16:13	0°♍	
	1292 Jul 13 j 08:25	0°♍			1295 Mar 03 j 22:58	0°♋	
	1292 Aug 07 j 13:42	0°♌			1295 Mar 28 j 06:28	0°♍	
desc. node	1292 Aug 14 j 23:59	8°♌43'49		morning set	1295 Apr 15 j 05:08	22°♍05'53	
	1292 Sep 02 j 08:14	0°♍			1295 Apr 21 j 15:16	0°♋	
	1292 Sep 29 j 04:27	0°♌			1295 May 16 j 01:10	0°♌	
evening max el	1292 Oct 15 j 23:42	17°♌33'11	47°09'03				
	1292 Oct 29 j 01:29	0°♌		superior conj	1295 May 22 j 06:21	7°♌38'10	-0°04'01
greatest brilliancy	1292 Nov 25 j 11:54	18°♌37'29	-4.9m	minimum elong	1295 May 22 j 07:11	7°♌40'43	0°03'59
retrograde	1292 Dec 05 j 14:20	20°♌33'45		behind sun begin	1295 May 21 j 09:07	6°♌32'57	
asc. node	1292 Dec 06 j 03:16	20°♌33'23		behind sun end	1295 May 23 j 05:15	8°♌48'28	
evening set	1292 Dec 20 j 09:05	16°♌12'27		max. Earth dist.	1295 May 22 j 04:05	7°♌31'11	1.73590 AU
min. Earth dist.	1292 Dec 25 j 10:15	13°♌13'26	0.26614 AU	asc. node	1295 May 23 j 22:34	9°♌41'37	
inferior conj	1292 Dec 26 j 04:19	12°♌45'34	4°54'46		1295 Jun 09 j 11:21	0°♌	
minimum elong	1292 Dec 25 j 18:50	13°♌00'13	4°52'12	evening rise	1295 Jun 27 j 08:20	21°♌58'08	
morning rise	1292 Dec 31 j 05:02	9°♌45'35			1295 Jul 03 j 21:09	0°♌	
direct	1293 Jan 15 j 13:18	5°♌07'23			1295 Jul 28 j 06:47	0°♍	
greatest brilliancy	1293 Jan 24 j 20:05	6°♌45'18	-4.9m		1295 Aug 21 j 17:22	0°♌	

desc. node	1295 Sep 12 j 11:57	26°♄37'36			1298 Jan 25 j 22:21	0°♁		
	1295 Sep 15 j 06:19	0°♄			1298 Feb 20 j 11:20	0°♁		
	1295 Oct 09 j 23:13	0°♁		desc. node	1298 Feb 27 j 07:03	8°♁07'34		
	1295 Nov 03 j 23:06	0°♁			1298 Mar 17 j 12:44	0°♁		
	1295 Nov 29 j 14:35	0°♁			1298 Apr 11 j 09:04	0°♁		
	1295 Dec 27 j 00:33	0°♁			1298 May 06 j 02:52	0°♁		
evening max el	1295 Dec 27 j 22:45	0°♁56'48	47°07'45		1298 May 30 j 18:36	0°♄		
asc. node	1296 Jan 03 j 15:14	7°♁36'08		asc. node	1298 Jun 20 j 10:28	25°♄14'53		
	1296 Feb 01 j 01:43	0°♁		morning set	1298 Jun 22 j 04:14	27°♄22'48		
greatest brilliancy	1296 Feb 06 j 07:32	2°♁23'37	-4.9m		1298 Jun 24 j 07:32	0°♁		
retrograde	1296 Feb 16 j 19:09	4°♁29'10			1298 Jul 18 j 16:53	0°♄		
	1296 Mar 02 j 18:02	30°♁		max. Earth dist.	1298 Jul 25 j 05:40	8°♄03'59	1.73067 AU	
evening set	1296 Mar 05 j 14:54	28°♁19'04						
inferior conj	1296 Mar 08 j 21:55	26°♁15'47	8°20'25	superior conj	1298 Jul 28 j 12:24	12°♄07'18	1°14'19	
minimum elong	1296 Mar 09 j 03:29	26°♁06'59	8°19'56	minimum elong	1298 Jul 28 j 04:55	11°♄44'08	1°14'08	
min. Earth dist.	1296 Mar 08 j 13:33	26°♁28'58	0.28220 AU		1298 Aug 11 j 22:46	0°♄		
morning rise	1296 Mar 12 j 16:17	23°♁55'42		evening rise	1298 Sep 03 j 00:35	27°♄25'22		
direct	1296 Mar 29 j 22:11	18°♁10'51			1298 Sep 05 j 02:18	0°♄		
greatest brilliancy	1296 Apr 08 j 07:58	19°♁48'51	-4.8m		1298 Sep 29 j 04:57	0°♄		
desc. node	1296 Apr 24 j 04:28	28°♁16'44		desc. node	1298 Oct 09 j 23:47	13°♄25'10		
	1296 Apr 26 j 13:55	0°♁			1298 Oct 23 j 07:51	0°♁		
morning max el	1296 May 17 j 22:54	18°♁25'54	45°50'46		1298 Nov 16 j 11:59	0°♁		
	1296 May 29 j 14:19	0°♁			1298 Dec 10 j 19:18	0°♁		
	1296 Jun 26 j 11:34	0°♄			1299 Jan 04 j 10:20	0°♁		
	1296 Jul 22 j 17:22	0°♁			1299 Jan 29 j 18:31	0°♁		
asc. node	1296 Aug 15 j 08:11	27°♁57'46		asc. node	1299 Jan 31 j 03:09	1°♁34'18		
	1296 Aug 17 j 00:54	0°♄			1299 Feb 25 j 17:12	0°♁		
	1296 Sep 10 j 16:58	0°♄		evening max el	1299 Mar 09 j 08:32	11°♁54'41	46°00'07	
	1296 Oct 04 j 22:28	0°♄			1299 Mar 29 j 17:32	0°♄		
	1296 Oct 28 j 21:48	0°♄		greatest brilliancy	1299 Apr 16 j 15:04	10°♄38'20	-4.7m	
greatest brilliancy	1296 Nov 03 j 23:47	7°♄38'31	-3.9m	retrograde	1299 Apr 27 j 13:49	12°♄48'42		
morning set	1296 Nov 12 j 11:49	18°♄19'52		evening set	1299 May 12 j 18:31	8°♄20'05		
	1296 Nov 21 j 18:22	0°♁		inferior conj	1299 May 19 j 00:21	4°♄33'50	0°51'45	
desc. node	1296 Dec 04 j 21:25	16°♁31'42		minimum elong	1299 May 19 j 02:14	4°♄30'51	0°51'13	
	1296 Dec 15 j 14:19	0°♁		min. Earth dist.	1299 May 19 j 01:18	4°♄32'20	0.28911 AU	
				desc. node	1299 May 22 j 16:19	2°♄17'25		
superior conj	1296 Dec 23 j 23:36	10°♁33'04	-0°43'32	morning rise	1299 May 25 j 10:10	0°♄42'26		
minimum elong	1296 Dec 23 j 13:12	10°♁00'22	0°43'05		1299 May 26 j 18:09	30°♁		
max. Earth dist.	1296 Dec 26 j 02:46	13°♁13'59	1.71132 AU	direct	1299 Jun 09 j 15:06	26°♁17'06		
	1297 Jan 08 j 11:00	0°♁		greatest brilliancy	1299 Jun 19 j 21:17	28°♁10'32	-4.7m	
	1297 Feb 01 j 09:37	0°♁			1299 Jun 24 j 06:53	0°♄		
evening rise	1297 Feb 03 j 06:13	2°♁19'19		morning max el	1299 Jul 28 j 10:08	26°♄04'31	45°49'11	
	1297 Feb 25 j 11:46	0°♁			1299 Aug 01 j 11:04	0°♁		
	1297 Mar 21 j 19:15	0°♁			1299 Aug 29 j 19:13	0°♄		
asc. node	1297 Mar 28 j 00:56	7°♁38'33		asc. node	1299 Sep 12 j 19:57	15°♄57'36		
	1297 Apr 15 j 09:53	0°♄			1299 Sep 24 j 19:44	0°♄		
	1297 May 10 j 09:58	0°♁			1299 Oct 19 j 17:31	0°♄		
	1297 Jun 04 j 23:42	0°♄			1299 Nov 13 j 01:10	0°♄		
	1297 Jul 01 j 13:00	0°♄			1299 Dec 07 j 02:11	0°♁		
desc. node	1297 Jul 17 j 14:10	17°♄11'46			1299 Dec 31 j 00:55	0°♁		
	1297 Jul 30 j 06:34	0°♄		desc. node	1300 Jan 02 j 09:20	2°♁56'44		
evening max el	1297 Aug 01 j 05:25	1°♄53'12	45°58'50		1300 Jan 23 j 23:44	0°♁		
	1297 Sep 08 j 09:25	0°♄		morning set	1300 Jan 29 j 17:02	7°♁09'31		
greatest brilliancy	1297 Sep 10 j 07:21	0°♄40'01	-4.8m		1300 Feb 16 j 23:55	0°♁		
retrograde	1297 Sep 19 j 09:44	2°♄10'42						
	1297 Sep 29 j 21:10	30°♁		superior conj	1300 Mar 09 j 21:31	27°♁15'46	-1°21'55	
evening set	1297 Oct 05 j 17:56	27°♄05'04		minimum elong	1300 Mar 10 j 03:39	27°♁34'49	1°21'49	
inferior conj	1297 Oct 10 j 03:44	24°♄27'31	-6°30'13		1300 Mar 12 j 02:26	0°♁		
minimum elong	1297 Oct 10 j 14:20	24°♄11'23	6°27'57	max. Earth dist.	1300 Mar 13 j 20:23	2°♁10'11	1.72456 AU	
min. Earth dist.	1297 Oct 11 j 00:07	23°♄56'29	0.27134 AU		1300 Apr 05 j 08:04	0°♁		
morning rise	1297 Oct 15 j 10:19	21°♄20'16		evening rise	1300 Apr 17 j 12:10	14°♁59'52		
direct	1297 Oct 30 j 23:28	16°♄37'15		asc. node	1300 Apr 24 j 12:48	23°♁38'15		
asc. node	1297 Nov 07 j 17:28	17°♄47'19			1300 Apr 29 j 17:11	0°♄		
greatest brilliancy	1297 Nov 10 j 23:03	18°♄54'22	-4.9m		1300 May 24 j 05:51	0°♁		
	1297 Nov 28 j 21:52	0°♄			1300 Jun 17 j 22:25	0°♄		
morning max el	1297 Dec 20 j 19:07	20°♄11'51	46°57'09		1300 Jul 12 j 20:20	0°♄		
	1297 Dec 30 j 03:44	0°♁			1300 Aug 07 j 02:39	0°♄		

desc. node	1300 Aug 14 j 01:59	8°♌10'31		morning set	1303 Apr 12 j 21:18	19°♍54'47	
	1300 Sep 01 j 23:01	0°♌			1303 Apr 21 j 02:00	0°♌	
	1300 Sep 28 j 23:04	0°♌			1303 May 15 j 11:49	0°♌	
evening max el	1300 Oct 13 j 12:24	15°♌06'43	47°07'22				
	1300 Oct 29 j 09:19	0°♌		superior conj	1303 May 20 j 00:01	5°♌32'22	-0°07'13
greatest brilliancy	1300 Nov 23 j 02:08	16°♌10'20	-4.9m	minimum elong	1303 May 20 j 01:31	5°♌36'59	0°07'08
retrograde	1300 Dec 03 j 02:33	18°♌05'08		behind sun begin	1303 May 19 j 05:03	4°♌34'04	
asc. node	1300 Dec 05 j 05:25	17°♌59'37		behind sun end	1303 May 20 j 22:00	6°♌39'53	
evening set	1300 Dec 17 j 19:25	13°♌47'20		max. Earth dist.	1303 May 20 j 02:17	5°♌39'18	1.73580 AU
min. Earth dist.	1300 Dec 23 j 00:12	10°♌43'44	0.26577 AU	asc. node	1303 May 23 j 00:43	9°♌15'36	
inferior conj	1300 Dec 23 j 16:53	10°♌18'04	4°34'25		1303 Jun 08 j 21:58	0°♌	
minimum elong	1300 Dec 23 j 07:48	10°♌32'03	4°31'53	evening rise	1303 Jun 25 j 03:22	19°♌56'18	
morning rise	1300 Dec 28 j 20:31	7°♌14'02			1303 Jul 03 j 07:51	0°♌	
direct	1301 Jan 13 j 00:58	2°♌40'07			1303 Jul 27 j 17:42	0°♌	
greatest brilliancy	1301 Jan 22 j 10:29	4°♌20'11	-4.9m		1303 Aug 21 j 04:38	0°♌	
	1301 Feb 27 j 04:07	0°♌		desc. node	1303 Sep 11 j 13:57	26°♌07'57	
morning max el	1301 Mar 03 j 22:49	4°♌38'31	46°31'57		1303 Sep 14 j 18:08	0°♌	
desc. node	1301 Mar 26 j 18:48	28°♌31'06			1303 Oct 09 j 11:48	0°♌	
	1301 Mar 28 j 03:21	0°♌			1303 Nov 03 j 12:52	0°♌	
	1301 Apr 23 j 19:22	0°♌			1303 Nov 29 j 06:36	0°♌	
	1301 May 19 j 14:16	0°♌		evening max el	1303 Dec 25 j 14:36	28°♌39'11	47°09'21
	1301 Jun 13 j 21:38	0°♌			1303 Dec 26 j 22:26	0°♌	
	1301 Jul 08 j 20:12	0°♌		asc. node	1304 Jan 02 j 17:21	6°♌40'58	
asc. node	1301 Jul 17 j 22:21	11°♌02'18			1304 Feb 03 j 16:51	0°♌	
	1301 Aug 02 j 10:36	0°♌		greatest brilliancy	1304 Feb 03 j 22:28	0°♌05'25	-4.9m
	1301 Aug 26 j 17:45	0°♌		retrograde	1304 Feb 14 j 11:10	2°♌11'43	
morning set	1301 Aug 29 j 13:18	3°♌29'45			1304 Feb 24 j 17:55	30°♌	
	1301 Sep 19 j 19:29	0°♌		evening set	1304 Mar 03 j 07:43	25°♌59'07	
max. Earth dist.	1301 Oct 03 j 17:40	17°♌26'00	1.71613 AU	min. Earth dist.	1304 Mar 06 j 03:14	24°♌13'52	0.28175 AU
				inferior conj	1304 Mar 06 j 12:55	23°♌58'36	8°26'36
superior conj	1301 Oct 06 j 07:10	20°♌38'48	1°05'19	minimum elong	1304 Mar 06 j 17:50	23°♌50'53	8°26'14
minimum elong	1301 Oct 06 j 17:22	21°♌10'45	1°05'00	morning rise	1304 Mar 10 j 04:10	21°♌43'25	
	1301 Oct 13 j 18:08	0°♌		direct	1304 Mar 27 j 13:04	15°♌54'36	
desc. node	1301 Nov 06 j 11:44	29°♌47'39		greatest brilliancy	1304 Apr 05 j 20:46	17°♌31'21	-4.8m
	1301 Nov 06 j 15:40	0°♌		desc. node	1304 Apr 23 j 06:33	27°♌04'38	
evening rise	1301 Nov 15 j 14:05	11°♌13'02			1304 Apr 27 j 03:43	0°♌	
	1301 Nov 30 j 13:16	0°♌		morning max el	1304 May 15 j 14:49	16°♌14'52	45°51'34
	1301 Dec 24 j 12:01	0°♌			1304 May 29 j 09:00	0°♌	
	1302 Jan 17 j 13:45	0°♌			1304 Jun 26 j 02:01	0°♌	
	1302 Feb 10 j 21:44	0°♌			1304 Jul 22 j 06:02	0°♌	
asc. node	1302 Feb 27 j 15:01	20°♌18'33		asc. node	1304 Aug 14 j 10:05	27°♌28'06	
	1302 Mar 07 j 16:46	0°♌			1304 Aug 16 j 12:39	0°♌	
	1302 Apr 02 j 06:13	0°♌			1304 Sep 10 j 04:14	0°♌	
	1302 Apr 29 j 05:29	0°♌			1304 Oct 04 j 09:30	0°♌	
evening max el	1302 May 18 j 19:17	19°♌55'25	45°21'35		1304 Oct 28 j 08:44	0°♌	
	1302 May 29 j 20:31	0°♌		greatest brilliancy	1304 Nov 03 j 09:01	7°♌33'13	-3.9m
desc. node	1302 Jun 19 j 04:26	14°♌34'16		morning set	1304 Nov 09 j 23:41	15°♌51'58	
greatest brilliancy	1302 Jun 26 j 00:16	17°♌37'47	-4.7m		1304 Nov 21 j 05:16	0°♌	
retrograde	1302 Jul 06 j 09:18	19°♌34'01		desc. node	1304 Dec 03 j 23:34	16°♌04'10	
evening set	1302 Jul 23 j 02:54	14°♌17'28			1304 Dec 15 j 01:13	0°♌	
inferior conj	1302 Jul 27 j 19:06	11°♌28'01	-7°31'14				
minimum elong	1302 Jul 27 j 10:20	11°♌41'37	7°29'57	superior conj	1304 Dec 21 j 09:12	7°♌57'59	-0°40'01
min. Earth dist.	1302 Jul 28 j 00:12	11°♌20'07	0.28787 AU	minimum elong	1304 Dec 20 j 23:25	7°♌27'14	0°39'35
morning rise	1302 Jul 31 j 17:31	9°♌03'44		max. Earth dist.	1304 Dec 23 j 11:48	10°♌37'06	1.71115 AU
direct	1302 Aug 18 j 08:04	3°♌13'00			1305 Jan 07 j 21:55	0°♌	
greatest brilliancy	1302 Aug 29 j 04:56	5°♌21'35	-4.8m	evening rise	1305 Jan 31 j 17:04	29°♌49'04	
	1302 Oct 02 j 05:45	0°♌			1305 Jan 31 j 20:34	0°♌	
morning max el	1302 Oct 07 j 06:52	4°♌55'45	46°27'39		1305 Feb 24 j 22:47	0°♌	
asc. node	1302 Oct 10 j 07:45	7°♌59'25			1305 Mar 21 j 06:24	0°♌	
	1302 Oct 30 j 18:26	0°♌		asc. node	1305 Mar 27 j 02:59	7°♌10'30	
	1302 Nov 25 j 14:21	0°♌			1305 Apr 14 j 21:21	0°♌	
	1302 Dec 20 j 10:22	0°♌			1305 May 09 j 22:04	0°♌	
	1303 Jan 13 j 20:46	0°♌			1305 Jun 04 j 13:05	0°♌	
desc. node	1303 Jan 29 j 21:13	19°♌46'33			1305 Jul 01 j 04:58	0°♌	
	1303 Feb 07 j 03:45	0°♌		desc. node	1305 Jul 16 j 16:10	16°♌28'01	
	1303 Mar 03 j 10:09	0°♌		evening max el	1305 Jul 29 j 19:22	29°♌35'22	45°56'29
	1303 Mar 27 j 17:22	0°♌			1305 Jul 30 j 05:39	0°♌	

greatest brilliancy	1305 Sep 07 j 20:17	28°♄18'07	-4.8m	superior conj	1308 Mar 07 j 11:27	24°♄56'15	-1°22'55
retrograde	1305 Sep 16 j 21:56	29°♄48'02		minimum elong	1308 Mar 07 j 16:51	25°♄13'01	1°22'51
evening set	1305 Oct 03 j 10:10	24°♄37'55		max. Earth dist.	1308 Mar 11 j 10:45	29°♄52'09	1.72400 AU
inferior conj	1305 Oct 07 j 16:51	22°♄04'32	-6°45'24		1308 Mar 11 j 13:17	0°♄	
minimum elong	1305 Oct 08 j 03:20	21°♄48'31	6°43'15		1308 Apr 04 j 18:54	0°♄	
min. Earth dist.	1305 Oct 08 j 13:42	21°♄32'42	0.27193 AU	evening rise	1308 Apr 15 j 04:20	12°♄48'29	
morning rise	1305 Oct 12 j 20:06	19°♄01'28		asc. node	1308 Apr 23 j 14:57	23°♄11'21	
direct	1305 Oct 28 j 13:15	14°♄13'28			1308 Apr 29 j 04:06	0°♄	
asc. node	1305 Nov 06 j 19:33	15°♄51'56			1308 May 23 j 16:58	0°♄	
greatest brilliancy	1305 Nov 08 j 13:16	16°♄30'28	-4.9m		1308 Jun 17 j 09:55	0°♄	
	1305 Nov 29 j 10:28	0°♄			1308 Jul 12 j 08:29	0°♄	
morning max el	1305 Dec 18 j 08:01	17°♄45'14	46°57'00		1308 Aug 06 j 15:53	0°♄	
	1305 Dec 29 j 22:58	0°♄		desc. node	1308 Aug 13 j 03:58	7°♄36'27	
	1306 Jan 25 j 13:29	0°♄			1308 Sep 01 j 14:13	0°♄	
	1306 Feb 20 j 00:40	0°♄			1308 Sep 28 j 18:27	0°♄	
desc. node	1306 Feb 26 j 09:00	7°♄34'33		evening max el	1308 Oct 11 j 01:05	12°♄39'44	47°05'39
	1306 Mar 17 j 01:03	0°♄			1308 Oct 29 j 20:17	0°♄	
	1306 Apr 10 j 20:44	0°♄		greatest brilliancy	1308 Nov 20 j 15:48	13°♄41'42	-4.9m
	1306 May 05 j 14:06	0°♄		retrograde	1308 Nov 30 j 15:05	15°♄35'51	
	1306 May 30 j 05:31	0°♄		asc. node	1308 Dec 04 j 07:31	15°♄19'02	
morning set	1306 Jun 19 j 22:16	25°♄18'05		evening set	1308 Dec 15 j 05:51	11°♄20'53	
asc. node	1306 Jun 19 j 12:33	24°♄48'20		min. Earth dist.	1308 Dec 20 j 13:50	8°♄13'22	0.26540 AU
	1306 Jun 23 j 18:16	0°♄		inferior conj	1308 Dec 21 j 05:19	7°♄49'37	4°13'17
	1306 Jul 18 j 03:35	0°♄		minimum elong	1308 Dec 20 j 20:43	8°♄02'48	4°10'49
max. Earth dist.	1306 Jul 22 j 22:49	5°♄55'39	1.73111 AU	morning rise	1308 Dec 26 j 11:51	4°♄41'56	
				direct	1309 Jan 10 j 12:48	0°♄11'49	
superior conj	1306 Jul 26 j 06:23	10°♄01'25	1°12'44	greatest brilliancy	1309 Jan 20 j 00:25	1°♄53'55	-4.9m
minimum elong	1306 Jul 25 j 22:34	9°♄37'16	1°12'32		1309 Feb 27 j 04:58	0°♄	
	1306 Aug 11 j 09:33	0°♄		morning max el	1309 Mar 01 j 12:17	2°♄15'40	46°33'40
evening rise	1306 Aug 31 j 16:32	25°♄11'48		desc. node	1309 Mar 25 j 20:57	27°♄50'24	
	1306 Sep 04 j 13:15	0°♄			1309 Mar 27 j 20:08	0°♄	
	1306 Sep 28 j 16:05	0°♄			1309 Apr 23 j 09:18	0°♄	
desc. node	1306 Oct 09 j 01:54	12°♄56'43			1309 May 19 j 02:49	0°♄	
	1306 Oct 22 j 19:14	0°♄			1309 Jun 13 j 09:24	0°♄	
	1306 Nov 15 j 23:42	0°♄			1309 Jul 08 j 07:32	0°♄	
	1306 Dec 10 j 07:30	0°♄		asc. node	1309 Jul 17 j 00:18	10°♄34'06	
	1307 Jan 03 j 23:20	0°♄			1309 Aug 01 j 21:41	0°♄	
	1307 Jan 29 j 09:04	0°♄			1309 Aug 26 j 04:43	0°♄	
asc. node	1307 Jan 30 j 05:05	0°♄57'39		morning set	1309 Aug 27 j 05:27	1°♄16'45	
	1307 Feb 25 j 11:42	0°♄			1309 Sep 19 j 06:27	0°♄	
evening max el	1307 Mar 06 j 23:06	9°♄38'49	46°02'15	max. Earth dist.	1309 Oct 01 j 07:41	15°♄05'01	1.71660 AU
	1307 Mar 30 j 07:55	0°♄					
greatest brilliancy	1307 Apr 14 j 08:34	8°♄30'12	-4.7m	superior conj	1309 Oct 03 j 20:47	18°♄16'27	1°07'35
retrograde	1307 Apr 25 j 05:52	10°♄39'48		minimum elong	1309 Oct 04 j 06:44	18°♄47'37	1°07'17
evening set	1307 May 10 j 12:13	6°♄09'23			1309 Oct 13 j 05:12	0°♄	
inferior conj	1307 May 16 j 16:50	2°♄24'55	1°11'29	desc. node	1309 Nov 05 j 13:50	29°♄19'05	
minimum elong	1307 May 16 j 19:26	2°♄20'50	1°10'43		1309 Nov 06 j 02:52	0°♄	
min. Earth dist.	1307 May 16 j 18:20	2°♄22'33	0.28902 AU	evening rise	1309 Nov 13 j 00:45	8°♄40'39	
	1307 May 20 j 14:21	30°♄			1309 Nov 30 j 00:36	0°♄	
desc. node	1307 May 21 j 18:28	29°♄18'34			1309 Dec 23 j 23:29	0°♄	
morning rise	1307 May 23 j 02:46	28°♄33'01			1310 Jan 17 j 01:24	0°♄	
direct	1307 Jun 07 j 06:51	24°♄08'15			1310 Feb 10 j 09:43	0°♄	
greatest brilliancy	1307 Jun 17 j 13:39	26°♄01'48	-4.7m	asc. node	1310 Feb 26 j 17:07	19°♄47'38	
	1307 Jun 26 j 01:58	0°♄			1310 Mar 07 j 05:23	0°♄	
morning max el	1307 Jul 26 j 00:55	23°♄51'35	45°48'25		1310 Apr 01 j 20:11	0°♄	
	1307 Aug 01 j 07:32	0°♄			1310 Apr 28 j 22:42	0°♄	
	1307 Aug 29 j 10:20	0°♄		evening max el	1310 May 16 j 11:32	17°♄45'50	45°21'43
asc. node	1307 Sep 11 j 22:03	15°♄23'30			1310 May 30 j 02:09	0°♄	
	1307 Sep 24 j 08:54	0°♄		desc. node	1310 Jun 18 j 06:24	13°♄07'56	
	1307 Oct 19 j 05:46	0°♄		greatest brilliancy	1310 Jun 23 j 13:46	15°♄25'01	-4.7m
	1307 Nov 12 j 12:56	0°♄		retrograde	1310 Jul 04 j 01:20	17°♄23'06	
	1307 Dec 06 j 13:38	0°♄		evening set	1310 Jul 20 j 15:21	12°♄10'49	
	1307 Dec 30 j 12:10	0°♄		inferior conj	1310 Jul 25 j 10:51	9°♄16'20	-7°20'35
desc. node	1308 Jan 01 j 11:21	2°♄27'53		minimum elong	1310 Jul 25 j 01:45	9°♄30'26	7°19'10
	1308 Jan 23 j 10:49	0°♄		min. Earth dist.	1310 Jul 25 j 14:49	9°♄10'11	0.28816 AU
morning set	1308 Jan 27 j 03:46	4°♄38'23		morning rise	1310 Jul 29 j 11:59	6°♄48'08	
	1308 Feb 16 j 10:52	0°♄		direct	1310 Aug 16 j 00:46	1°♄01'03	

greatest brilliancy	1310 Aug 26 j 20:00	3°Ω08'31	-4.8m			1313 Feb 24 j 10:06	0°Υ		
	1310 Oct 02 j 05:28	0°Π				1313 Mar 20 j 17:52	0°Ϡ		
morning max el	1310 Oct 04 j 22:47	2°Π40'52	46°26'01	asc. node		1313 Mar 26 j 05:07	6°Ϡ41'47		
asc. node	1310 Oct 09 j 09:52	7°Π11'39				1313 Apr 14 j 09:08	0°Π		
	1310 Oct 30 j 10:53	0°Ω				1313 May 09 j 10:30	0°Ω		
	1310 Nov 25 j 04:25	0°Π				1313 Jun 04 j 02:45	0°Ω		
	1310 Dec 19 j 23:18	0°Ϡ				1313 Jun 30 j 21:22	0°Π		
	1311 Jan 13 j 09:03	0°Ϡ		desc. node		1313 Jul 15 j 18:10	15°Π43'20		
desc. node	1311 Jan 28 j 23:08	19°Ϡ15'34		evening max el		1313 Jul 27 j 08:23	27°Π15'00	45°54'07	
	1311 Feb 06 j 15:34	0°≈				1313 Jul 30 j 05:58	0°Ω		
	1311 Mar 02 j 21:36	0°Ϡ		greatest brilliancy		1313 Sep 05 j 09:28	25°Ω56'17	-4.8m	
	1311 Mar 27 j 04:33	0°Υ		retrograde		1313 Sep 14 j 09:56	27°Ω25'21		
morning set	1311 Apr 10 j 13:45	17°Υ43'37		evening set		1313 Oct 01 j 02:27	22°Ω10'29		
	1311 Apr 20 j 12:59	0°Ϡ		inferior conj		1313 Oct 05 j 06:07	19°Ω41'20	-6°59'35	
	1311 May 14 j 22:40	0°Π		minimum elong		1313 Oct 05 j 16:26	19°Ω25'34	6°57'35	
				min. Earth dist.		1313 Oct 06 j 03:38	19°Ω08'26	0.27261 AU	
superior conj	1311 May 17 j 17:58	3°Π26'42	-0°10'23	morning rise		1313 Oct 10 j 05:57	16°Ω42'37		
minimum elong	1311 May 17 j 20:08	3°Π33'21	0°10'16	direct		1313 Oct 26 j 02:46	11°Ω49'04		
behind sun begin	1311 May 17 j 02:35	2°Π39'27		asc. node		1313 Nov 05 j 21:37	14°Ω00'16		
behind sun end	1311 May 18 j 13:40	4°Π27'14		greatest brilliancy		1313 Nov 06 j 04:17	14°Ω06'48	-4.9m	
max. Earth dist.	1311 May 18 j 02:10	3°Π51'55	1.73565 AU			1313 Nov 29 j 20:19	0°Π		
asc. node	1311 May 22 j 02:45	8°Π48'35		morning max el		1313 Dec 15 j 20:38	15°Π16'33	46°56'48	
	1311 Jun 08 j 08:49	0°Ω				1313 Dec 29 j 18:07	0°Ϡ		
evening rise	1311 Jun 22 j 22:39	17°Ω54'34				1314 Jan 25 j 04:47	0°Ϡ		
	1311 Jul 02 j 18:49	0°Ω				1314 Feb 19 j 14:13	0°≈		
	1311 Jul 27 j 04:56	0°Π		desc. node		1314 Feb 25 j 11:12	7°≈01'31		
	1311 Aug 20 j 16:17	0°Ω				1314 Mar 16 j 13:35	0°Ϡ		
desc. node	1311 Sep 10 j 16:02	25°Ω37'21				1314 Apr 10 j 08:36	0°Υ		
	1311 Sep 14 j 06:20	0°Π				1314 May 05 j 01:30	0°Ϡ		
	1311 Oct 09 j 00:48	0°Ϡ				1314 May 29 j 16:37	0°Π		
	1311 Nov 03 j 03:08	0°Ϡ		morning set		1314 Jun 17 j 16:33	23°Π13'32		
	1311 Nov 28 j 23:16	0°≈		asc. node		1314 Jun 18 j 14:31	24°Π20'52		
evening max el	1311 Dec 23 j 06:30	26°≈20'29	47°10'49			1314 Jun 23 j 05:11	0°Ω		
	1311 Dec 26 j 21:39	0°Ϡ				1314 Jul 17 j 14:26	0°Ω		
asc. node	1312 Jan 01 j 19:17	5°Ϡ43'11		max. Earth dist.		1314 Jul 20 j 18:10	3°Ω53'44	1.73151 AU	
greatest brilliancy	1312 Feb 01 j 13:48	27°Ϡ46'28	-4.9m						
retrograde	1312 Feb 12 j 02:52	29°Ϡ52'47		superior conj		1314 Jul 24 j 00:47	7°Ω56'28	1°11'04	
evening set	1312 Mar 01 j 00:15	23°Ϡ38'25		minimum elong		1314 Jul 23 j 16:41	7°Ω31'27	1°10'51	
min. Earth dist.	1312 Mar 03 j 17:00	21°Ϡ57'21	0.28126 AU			1314 Aug 10 j 20:27	0°Π		
inferior conj	1312 Mar 04 j 03:53	21°Ϡ40'12	8°32'00	evening rise		1314 Aug 29 j 09:03	22°Π59'50		
minimum elong	1312 Mar 04 j 08:04	21°Ϡ33'35	8°31'44			1314 Sep 04 j 00:17	0°Ω		
morning rise	1312 Mar 07 j 16:09	19°Ϡ29'31				1314 Sep 28 j 03:22	0°Π		
direct	1312 Mar 25 j 04:05	13°Ϡ37'18		desc. node		1314 Oct 08 j 04:00	12°Π27'44		
greatest brilliancy	1312 Apr 03 j 09:31	15°Ϡ12'33	-4.8m			1314 Oct 22 j 06:50	0°Ϡ		
desc. node	1312 Apr 22 j 08:37	25°Ϡ53'41				1314 Nov 15 j 11:43	0°Ϡ		
	1312 Apr 27 j 14:25	0°Υ				1314 Dec 09 j 20:03	0°≈		
morning max el	1312 May 13 j 05:56	14°Υ00'58	45°52'33			1315 Jan 03 j 12:43	0°Ϡ		
	1312 May 29 j 03:27	0°Ϡ		asc. node		1315 Jan 29 j 07:12	0°Υ20'24		
	1312 Jun 25 j 16:30	0°Π				1315 Jan 29 j 00:05	0°Υ		
	1312 Jul 21 j 18:49	0°Ω				1315 Feb 25 j 07:01	0°Ϡ		
asc. node	1312 Aug 13 j 12:14	26°Ω58'28		evening max el		1315 Mar 04 j 13:01	7°Ϡ20'32	46°04'40	
	1312 Aug 16 j 00:36	0°Ω				1315 Mar 31 j 03:42	0°Π		
	1312 Sep 09 j 15:46	0°Π		greatest brilliancy		1315 Apr 12 j 01:37	6°Π20'48	-4.8m	
	1312 Oct 03 j 20:52	0°Ω		retrograde		1315 Apr 22 j 22:12	8°Π30'22		
	1312 Oct 27 j 20:02	0°Π		evening set		1315 May 08 j 06:00	3°Π57'40		
greatest brilliancy	1312 Nov 02 j 15:36	7°Π18'28	-3.9m	inferior conj		1315 May 14 j 09:16	0°Π15'20	1°31'08	
morning set	1312 Nov 07 j 11:23	13°Π22'26		minimum elong		1315 May 14 j 12:34	0°Π10'09	1°30'10	
	1312 Nov 20 j 16:31	0°Ϡ		min. Earth dist.		1315 May 14 j 11:14	0°Π12'15	0.28890 AU	
desc. node	1312 Dec 03 j 01:33	15°Ϡ34'59				1315 May 14 j 19:01	30°Ϡ		
	1312 Dec 14 j 12:28	0°Ϡ		morning rise		1315 May 20 j 19:12	26°Ϡ23'21		
				desc. node		1315 May 20 j 20:29	26°Ϡ21'35		
superior conj	1312 Dec 18 j 18:37	5°Ϡ21'20	-0°36'23	direct		1315 Jun 04 j 22:23	21°Ϡ58'37		
minimum elong	1312 Dec 18 j 09:33	4°Ϡ52'47	0°35'59	greatest brilliancy		1315 Jun 15 j 06:08	23°Ϡ52'47	-4.7m	
max. Earth dist.	1312 Dec 20 j 17:59	7°Ϡ50'15	1.71096 AU			1315 Jun 27 j 07:43	0°Π		
	1313 Jan 07 j 09:09	0°≈		morning max el		1315 Jul 23 j 16:27	21°Π40'17	45°47'55	
evening rise	1313 Jan 29 j 03:43	27°≈17'08				1315 Aug 01 j 03:26	0°Ω		
	1313 Jan 31 j 07:50	0°Ϡ				1315 Aug 29 j 01:15	0°Ω		

asc. node	1315 Sep 11 j 00:10	14°♌49'45			1318 Apr 01 j 10:14	0°♊	
	1315 Sep 23 j 21:57	0°♍			1318 Apr 28 j 16:16	0°♋	
	1315 Oct 18 j 17:56	0°♊	evening max el		1318 May 14 j 03:56	15°♋36'39	45°22'00
	1315 Nov 12 j 00:39	0°♌			1318 May 30 j 10:01	0°♌	
	1315 Dec 06 j 01:07	0°♈	desc. node		1318 Jun 17 j 08:24	11°♌38'56	
	1315 Dec 29 j 23:31	0°♉	greatest brilliancy		1318 Jun 21 j 03:56	13°♌13'15	-4.7m
desc. node	1315 Dec 31 j 13:21	1°♊58'37	retrograde		1318 Jul 01 j 17:06	15°♌12'14	
	1316 Jan 22 j 22:03	0°♊	evening set		1318 Jul 18 j 03:48	10°♌04'31	
morning set	1316 Jan 24 j 13:50	2°♊04'33	inferior conj		1318 Jul 23 j 02:32	7°♌04'59	-7°09'20
	1316 Feb 15 j 21:58	0°♈	minimum elong		1318 Jul 22 j 17:09	7°♌19'33	7°07'48
			min. Earth dist.		1318 Jul 23 j 05:32	7°♌00'19	0.28838 AU
superior conj	1316 Mar 05 j 00:39	22°♈33'56	morning rise		1318 Jul 27 j 06:22	4°♌32'39	
minimum elong	1316 Mar 05 j 05:17	22°♈48'18			1318 Aug 06 j 00:59	30°♌	
max. Earth dist.	1316 Mar 08 j 22:45	27°♈26'15	direct		1318 Aug 13 j 17:18	28°♌49'38	
	1316 Mar 11 j 00:16	0°♍			1318 Aug 21 j 15:37	0°♌	
	1316 Apr 04 j 05:50	0°♋	greatest brilliancy		1318 Aug 24 j 10:36	0°♌55'21	-4.8m
evening rise	1316 Apr 12 j 19:57	10°♋35'08			1318 Oct 02 j 03:55	0°♍	
asc. node	1316 Apr 22 j 16:56	22°♋43'42	morning max el		1318 Oct 02 j 14:04	0°♍25'11	46°24'27
	1316 Apr 28 j 15:06	0°♊	asc. node		1318 Oct 08 j 11:51	6°♍24'57	
	1316 May 23 j 04:10	0°♋			1318 Oct 30 j 02:46	0°♊	
	1316 Jun 16 j 21:29	0°♌			1318 Nov 24 j 18:03	0°♌	
	1316 Jul 11 j 20:41	0°♍			1318 Dec 19 j 11:50	0°♈	
	1316 Aug 06 j 05:10	0°♊			1319 Jan 12 j 20:55	0°♉	
desc. node	1316 Aug 12 j 06:08	7°♊02'57	desc. node		1319 Jan 28 j 01:19	18°♊46'32	
	1316 Sep 01 j 05:30	0°♌			1319 Feb 06 j 03:00	0°♊	
	1316 Sep 28 j 14:12	0°♈			1319 Mar 02 j 08:44	0°♈	
evening max el	1316 Oct 08 j 14:21	10°♈15'07			1319 Mar 26 j 15:28	0°♍	
	1316 Oct 30 j 10:33	0°♉	morning set		1319 Apr 08 j 05:48	15°♍31'56	
greatest brilliancy	1316 Nov 18 j 04:42	11°♉12'44			1319 Apr 19 j 23:45	0°♋	
retrograde	1316 Nov 28 j 04:00	13°♉06'54			1319 May 14 j 09:20	0°♊	
asc. node	1316 Dec 03 j 09:27	12°♉32'50					
evening set	1316 Dec 12 j 16:30	8°♉54'16	superior conj		1319 May 15 j 11:23	1°♊20'03	-0°13'34
min. Earth dist.	1316 Dec 18 j 03:05	5°♉43'26	minimum elong		1319 May 15 j 14:13	1°♊28'43	0°13'26
inferior conj	1316 Dec 18 j 17:41	5°♉21'08	behind sun begin		1319 May 15 j 01:59	0°♊51'07	
minimum elong	1316 Dec 18 j 09:38	5°♉33'26	behind sun end		1319 May 16 j 02:27	2°♊06'19	
morning rise	1316 Dec 24 j 03:03	2°♉10'04	max. Earth dist.		1319 May 16 j 00:43	2°♊01'00	1.73548 AU
	1316 Dec 28 j 12:57	30°♌	asc. node		1319 May 21 j 04:44	8°♊21'57	
direct	1317 Jan 08 j 01:16	27°♈43'29			1319 Jun 07 j 19:28	0°♋	
greatest brilliancy	1317 Jan 17 j 13:57	29°♈27'04	evening rise		1319 Jun 20 j 17:24	15°♋51'52	
	1317 Jan 19 j 01:33	0°♉			1319 Jul 02 j 05:34	0°♌	
morning max el	1317 Feb 27 j 02:30	29°♉54'20			1319 Jul 26 j 15:56	0°♍	
	1317 Feb 27 j 04:47	0°♊			1319 Aug 20 j 03:42	0°♊	
desc. node	1317 Mar 24 j 22:59	27°♊09'32	desc. node		1319 Sep 09 j 18:06	25°♊07'30	
	1317 Mar 27 j 12:43	0°♈			1319 Sep 13 j 18:20	0°♌	
	1317 Apr 22 j 23:11	0°♍			1319 Oct 08 j 13:36	0°♈	
	1317 May 18 j 15:19	0°♋			1319 Nov 02 j 17:13	0°♉	
	1317 Jun 12 j 21:07	0°♊			1319 Nov 28 j 15:49	0°♊	
	1317 Jul 07 j 18:46	0°♋	evening max el		1319 Dec 20 j 21:46	24°♊01'20	47°12'15
asc. node	1317 Jul 16 j 02:23	10°♋06'38			1319 Dec 26 j 21:20	0°♈	
	1317 Aug 01 j 08:40	0°♌	asc. node		1319 Dec 31 j 21:27	4°♈46'08	
morning set	1317 Aug 24 j 21:47	29°♌04'48	greatest brilliancy		1320 Jan 30 j 05:38	25°♈29'33	-4.9m
	1317 Aug 25 j 15:34	0°♍	retrograde		1320 Feb 09 j 18:12	27°♈35'13	
	1317 Sep 18 j 17:17	0°♊	evening set		1320 Feb 27 j 16:33	21°♈19'47	
max. Earth dist.	1317 Sep 28 j 20:38	12°♊41'11	inferior conj		1320 Mar 01 j 18:55	19°♈23'19	8°36'32
			minimum elong		1320 Mar 01 j 22:21	19°♈17'54	8°36'22
superior conj	1317 Oct 01 j 10:55	15°♊56'15	min. Earth dist.		1320 Mar 01 j 07:02	19°♈42'06	0.28076 AU
minimum elong	1317 Oct 01 j 20:32	16°♊26'23	morning rise		1320 Mar 05 j 04:25	17°♈16'42	
	1317 Oct 12 j 16:06	0°♌	direct		1320 Mar 22 j 18:48	11°♈21'34	
desc. node	1317 Nov 04 j 15:48	28°♌50'48	greatest brilliancy		1320 Mar 31 j 22:43	12°♈55'28	-4.8m
	1317 Nov 05 j 13:51	0°♈	desc. node		1320 Apr 21 j 10:38	24°♈45'50	
evening rise	1317 Nov 10 j 11:55	6°♈10'32			1320 Apr 27 j 21:44	0°♍	
	1317 Nov 29 j 11:42	0°♉	morning max el		1320 May 10 j 20:12	11°♍45'52	45°53'22
	1317 Dec 23 j 10:44	0°♊			1320 May 28 j 21:08	0°♋	
	1318 Jan 16 j 12:53	0°♈			1320 Jun 25 j 06:33	0°♊	
	1318 Feb 09 j 21:35	0°♍			1320 Jul 21 j 07:16	0°♋	
asc. node	1318 Feb 25 j 19:12	19°♍16'57	asc. node		1320 Aug 12 j 14:20	26°♋29'41	
	1318 Mar 06 j 17:59	0°♋			1320 Aug 15 j 12:13	0°♌	

	1320 Sep 09 j 02:58	0°♎		greatest brilliancy	1323 Apr 09 j 18:14	4°♐12'10	-4.8m
	1320 Oct 03 j 07:53	0°♏		retrograde	1323 Apr 20 j 15:06	6°♐22'26	
	1320 Oct 27 j 06:57	0°♎		evening set	1323 May 06 j 00:01	1°♐47'09	
greatest brilliancy	1320 Nov 01 j 09:25	6°♎24'42	-3.9m		1323 May 09 j 01:13	30°♐8	
morning set	1320 Nov 04 j 23:06	10°♎54'04		inferior conj	1323 May 12 j 01:49	28°♐07'04	1°50'28
	1320 Nov 20 j 03:25	0°♐		minimum elong	1323 May 12 j 05:47	28°♐00'49	1°49'20
desc. node	1320 Dec 02 j 03:36	15°♐07'05		min. Earth dist.	1323 May 12 j 03:52	28°♐03'50	0.28880 AU
	1320 Dec 13 j 23:20	0°♑		morning rise	1323 May 18 j 11:37	24°♐15'27	
				desc. node	1323 May 19 j 22:28	23°♐29'09	
superior conj	1320 Dec 16 j 04:12	2°♑46'17	-0°32'42	direct	1323 Jun 02 j 14:21	19°♐50'19	
minimum elong	1320 Dec 15 j 19:54	2°♑20'11	0°32'19	greatest brilliancy	1323 Jun 12 j 22:17	21°♐44'50	-4.7m
max. Earth dist.	1320 Dec 17 j 20:32	4°♑53'09	1.71077 AU		1323 Jun 28 j 04:36	0°♐	
	1321 Jan 06 j 20:01	0°♑		morning max el	1323 Jul 21 j 08:53	19°♐32'15	45°47'14
evening rise	1321 Jan 26 j 14:27	24°♑46'39			1323 Jul 31 j 22:25	0°♑	
	1321 Jan 30 j 18:41	0°♒			1323 Aug 28 j 15:47	0°♑	
	1321 Feb 23 j 21:00	0°♑		asc. node	1323 Sep 10 j 02:07	14°♑16'10	
asc. node	1321 Mar 20 j 04:54	0°♒			1323 Sep 23 j 10:46	0°♑	
	1321 Mar 25 j 07:06	6°♒13'53			1323 Oct 18 j 05:56	0°♑	
	1321 Apr 13 j 20:32	0°♐			1323 Nov 11 j 12:12	0°♎	
	1321 May 08 j 22:36	0°♑			1323 Dec 05 j 12:25	0°♐	
	1321 Jun 03 j 16:15	0°♑			1323 Dec 29 j 10:39	0°♑	
	1321 Jun 30 j 13:48	0°♑		desc. node	1323 Dec 30 j 15:30	1°♑30'29	
desc. node	1321 Jul 14 j 20:21	14°♑59'12		morning set	1324 Jan 21 j 23:50	29°♑31'09	
evening max el	1321 Jul 24 j 20:45	24°♑53'55	45°51'53		1324 Jan 22 j 09:03	0°♑	
	1321 Jul 30 j 07:14	0°♑			1324 Feb 15 j 08:50	0°♒	
greatest brilliancy	1321 Sep 02 j 22:28	23°♑35'05	-4.8m				
retrograde	1321 Sep 11 j 22:05	25°♑03'48		superior conj	1324 Mar 02 j 13:48	20°♒11'56	-1°24'32
evening set	1321 Sep 28 j 18:36	19°♑43'52		minimum elong	1324 Mar 02 j 17:36	20°♒23'45	1°24'30
inferior conj	1321 Oct 02 j 19:20	17°♑19'05	-7°12'51	max. Earth dist.	1324 Mar 06 j 10:35	25°♒00'24	1.72286 AU
minimum elong	1321 Oct 03 j 05:23	17°♑03'42	7°11'02		1324 Mar 10 j 11:04	0°♑	
min. Earth dist.	1321 Oct 03 j 17:28	16°♑45'14	0.27329 AU		1324 Apr 03 j 16:36	0°♒	
morning rise	1321 Oct 07 j 15:41	14°♑25'06		evening rise	1324 Apr 10 j 11:40	8°♒22'38	
direct	1321 Oct 23 j 16:02	9°♑25'27		asc. node	1324 Apr 21 j 18:58	22°♒16'52	
greatest brilliancy	1321 Nov 03 j 19:23	11°♑44'28	-4.9m		1324 Apr 28 j 01:55	0°♐	
asc. node	1321 Nov 04 j 23:37	12°♑13'47			1324 May 22 j 15:10	0°♑	
	1321 Nov 30 j 03:05	0°♎			1324 Jun 16 j 08:52	0°♑	
morning max el	1321 Dec 13 j 09:51	12°♎50'29	46°56'37		1324 Jul 11 j 08:45	0°♑	
	1321 Dec 29 j 12:23	0°♐			1324 Aug 05 j 18:27	0°♑	
	1322 Jan 24 j 19:31	0°♑		desc. node	1324 Aug 11 j 08:07	6°♑29'01	
	1322 Feb 19 j 03:17	0°♑			1324 Aug 31 j 20:59	0°♎	
desc. node	1322 Feb 24 j 13:10	6°♑29'07			1324 Sep 28 j 10:37	0°♐	
	1322 Mar 16 j 01:40	0°♒		evening max el	1324 Oct 06 j 04:38	7°♐52'56	47°02'01
	1322 Apr 09 j 20:02	0°♑			1324 Oct 31 j 05:49	0°♑	
	1322 May 04 j 12:29	0°♒		greatest brilliancy	1324 Nov 15 j 17:20	8°♑43'07	-4.9m
	1322 May 29 j 03:19	0°♐		retrograde	1324 Nov 25 j 17:03	10°♑37'11	
morning set	1322 Jun 15 j 10:46	21°♐09'50		asc. node	1324 Dec 02 j 11:35	9°♑39'54	
asc. node	1322 Jun 17 j 16:38	23°♐54'52		evening set	1324 Dec 10 j 03:15	6°♑26'56	
	1322 Jun 22 j 15:46	0°♑		min. Earth dist.	1324 Dec 15 j 16:03	3°♑13'01	0.26484 AU
	1322 Jul 17 j 01:00	0°♑		inferior conj	1324 Dec 16 j 05:49	2°♑52'00	3°29'15
max. Earth dist.	1322 Jul 18 j 14:35	1°♑55'58	1.73195 AU	minimum elong	1324 Dec 15 j 22:24	3°♑03'20	3°27'01
					1324 Dec 21 j 01:49	30°♒♐	
superior conj	1322 Jul 21 j 18:58	5°♑51'46	1°09'17	morning rise	1324 Dec 21 j 17:55	29°♐37'44	
minimum elong	1322 Jul 21 j 10:39	5°♑26'04	1°09'04	direct	1325 Jan 05 j 13:54	25°♐14'51	
	1322 Aug 10 j 07:06	0°♑		greatest brilliancy	1325 Jan 15 j 02:47	26°♐59'08	-4.9m
evening rise	1322 Aug 27 j 01:25	20°♑48'15			1325 Jan 21 j 20:40	0°♑	
	1322 Sep 03 j 11:06	0°♑		morning max el	1325 Feb 24 j 16:36	27°♑32'53	46°36'34
	1322 Sep 27 j 14:25	0°♎			1325 Feb 27 j 03:29	0°♑	
desc. node	1322 Oct 07 j 05:57	11°♎59'04		desc. node	1325 Mar 24 j 00:59	26°♑29'20	
	1322 Oct 21 j 18:11	0°♐			1325 Mar 27 j 04:53	0°♒	
	1322 Nov 14 j 23:27	0°♑			1325 Apr 22 j 12:50	0°♑	
	1322 Dec 09 j 08:20	0°♑			1325 May 18 j 03:39	0°♒	
	1323 Jan 03 j 01:52	0°♒			1325 Jun 12 j 08:42	0°♐	
asc. node	1323 Jan 28 j 09:18	29°♒43'47			1325 Jul 07 j 05:53	0°♑	
	1323 Jan 28 j 14:58	0°♑		asc. node	1325 Jul 15 j 04:31	9°♑39'37	
	1323 Feb 25 j 02:28	0°♒			1325 Jul 31 j 19:31	0°♑	
evening max el	1323 Mar 02 j 03:41	5°♒05'06	46°07'15	morning set	1325 Aug 22 j 14:25	26°♑54'06	
	1323 Apr 01 j 06:00	0°♐			1325 Aug 25 j 02:21	0°♑	

	1325 Sep 18 j 04:07	0°♄		minimum elong	1328 Feb 28 j 12:22	17°♄00'14	8°40'14
max. Earth dist.	1325 Sep 26 j 07:35	10°♄11'13	1.71751 AU	min. Earth dist.	1328 Feb 27 j 21:14	17°♄24'10	0.28024 AU
				morning rise	1328 Mar 02 j 16:41	15°♄01'28	
superior conj	1325 Sep 29 j 01:13	13°♄36'37	1°11'39	direct	1328 Mar 20 j 08:38	9°♄03'39	
minimum elong	1325 Sep 29 j 10:27	14°♄05'31	1°11'25	greatest brilliancy	1328 Mar 29 j 12:16	10°♄36'54	-4.8m
	1325 Oct 12 j 03:03	0°♄		desc. node	1328 Apr 20 j 12:44	23°♄38'40	
desc. node	1325 Nov 03 j 17:55	28°♄22'36			1328 Apr 28 j 03:25	0°♄	
	1325 Nov 05 j 00:57	0°♄		morning max el	1328 May 08 j 09:46	9°♄27'44	45°54'25
evening rise	1325 Nov 07 j 22:49	3°♄39'13			1328 May 28 j 14:45	0°♄	
	1325 Nov 28 j 22:56	0°♄			1328 Jun 24 j 20:44	0°♄	
	1325 Dec 22 j 22:06	0°♄			1328 Jul 20 j 19:55	0°♄	
	1326 Jan 16 j 00:28	0°♄		asc. node	1328 Aug 11 j 16:14	25°♄59'32	
	1326 Feb 09 j 09:34	0°♄			1328 Aug 15 j 00:04	0°♄	
asc. node	1326 Feb 24 j 21:09	18°♄45'37			1328 Sep 08 j 14:25	0°♄	
	1326 Mar 06 j 06:42	0°♄			1328 Oct 02 j 19:07	0°♄	
	1326 Apr 01 j 00:28	0°♄			1328 Oct 26 j 18:07	0°♄	
	1326 Apr 28 j 10:14	0°♄		greatest brilliancy	1328 Oct 31 j 02:35	5°♄28'11	-3.9m
evening max el	1326 May 11 j 20:19	13°♄27'28	45°22'23	morning set	1328 Nov 02 j 11:29	8°♄26'59	
	1326 May 30 j 20:39	0°♄			1328 Nov 19 j 14:34	0°♄	
desc. node	1326 Jun 16 j 10:36	10°♄07'35		desc. node	1328 Dec 01 j 05:45	14°♄38'43	
greatest brilliancy	1326 Jun 18 j 19:03	11°♄03'05	-4.7m		1328 Dec 13 j 10:30	0°♄	
retrograde	1326 Jun 29 j 08:41	13°♄02'18					
evening set	1326 Jul 15 j 16:41	7°♄59'10		superior conj	1328 Dec 13 j 14:03	0°♄11'08	-0°28'58
inferior conj	1326 Jul 20 j 18:33	4°♄54'48	-6°57'38	minimum elong	1328 Dec 13 j 06:35	29°♄47'40	0°28'36
minimum elong	1326 Jul 20 j 08:56	5°♄09'45	6°55'58	max. Earth dist.	1328 Dec 14 j 22:37	1°♄53'36	1.71070 AU
min. Earth dist.	1326 Jul 20 j 20:55	4°♄51'05	0.28857 AU		1329 Jan 06 j 07:13	0°♄	
morning rise	1326 Jul 25 j 01:03	2°♄18'12		evening rise	1329 Jan 24 j 00:59	22°♄14'18	
	1326 Jul 29 j 06:52	30°♄			1329 Jan 30 j 05:56	0°♄	
direct	1326 Aug 11 j 09:45	26°♄39'23			1329 Feb 23 j 08:19	0°♄	
greatest brilliancy	1326 Aug 22 j 01:42	28°♄43'27	-4.8m		1329 Mar 19 j 16:24	0°♄	
	1326 Aug 25 j 03:29	0°♄		asc. node	1329 Mar 24 j 09:08	5°♄44'51	
morning max el	1326 Sep 30 j 04:32	28°♄07'40	46°22'44		1329 Apr 13 j 08:23	0°♄	
	1326 Oct 02 j 01:29	0°♄			1329 May 08 j 11:11	0°♄	
asc. node	1326 Oct 07 j 13:56	5°♄39'14			1329 Jun 03 j 06:16	0°♄	
	1326 Oct 29 j 18:30	0°♄			1329 Jun 30 j 06:57	0°♄	
	1326 Nov 24 j 07:45	0°♄		desc. node	1329 Jul 13 j 22:19	14°♄12'57	
	1326 Dec 19 j 00:33	0°♄		evening max el	1329 Jul 22 j 09:32	22°♄33'10	45°49'51
	1327 Jan 12 j 09:01	0°♄			1329 Jul 30 j 10:18	0°♄	
desc. node	1327 Jan 27 j 03:21	18°♄16'14		greatest brilliancy	1329 Aug 31 j 11:14	21°♄13'26	-4.8m
	1327 Feb 05 j 14:40	0°♄		retrograde	1329 Sep 09 j 11:02	22°♄42'31	
	1327 Mar 01 j 20:04	0°♄		evening set	1329 Sep 26 j 10:56	17°♄17'23	
	1327 Mar 26 j 02:34	0°♄		inferior conj	1329 Sep 30 j 08:49	14°♄56'54	-7°25'14
morning set	1327 Apr 05 j 21:37	13°♄18'57		minimum elong	1329 Sep 30 j 18:33	14°♄42'02	7°23'36
	1327 Apr 19 j 10:40	0°♄		min. Earth dist.	1329 Oct 01 j 07:17	14°♄22'35	0.27397 AU
				morning rise	1329 Oct 05 j 01:39	12°♄08'00	
superior conj	1327 May 13 j 04:52	29°♄13'01	-0°16'44	direct	1329 Oct 21 j 05:56	7°♄01'55	
minimum elong	1327 May 13 j 08:20	29°♄23'41	0°16'35	greatest brilliancy	1329 Nov 01 j 10:30	9°♄22'11	-4.9m
	1327 May 13 j 20:09	0°♄		asc. node	1329 Nov 04 j 01:44	10°♄31'16	
max. Earth dist.	1327 May 13 j 22:13	0°♄06'19	1.73527 AU		1329 Nov 30 j 07:58	0°♄	
asc. node	1327 May 20 j 06:52	7°♄55'14		morning max el	1329 Dec 11 j 00:13	10°♄26'54	46°56'24
	1327 Jun 07 j 06:17	0°♄			1329 Dec 29 j 06:27	0°♄	
evening rise	1327 Jun 18 j 12:22	13°♄49'14			1330 Jan 24 j 10:22	0°♄	
	1327 Jul 01 j 16:31	0°♄			1330 Feb 18 j 16:36	0°♄	
	1327 Jul 26 j 03:08	0°♄		desc. node	1330 Feb 23 j 15:10	5°♄55'48	
	1327 Aug 19 j 15:17	0°♄			1330 Mar 15 j 14:06	0°♄	
desc. node	1327 Sep 08 j 20:06	24°♄36'58			1330 Apr 09 j 07:52	0°♄	
	1327 Sep 13 j 06:30	0°♄			1330 May 03 j 23:54	0°♄	
	1327 Oct 08 j 02:38	0°♄			1330 May 28 j 14:26	0°♄	
	1327 Nov 02 j 07:39	0°♄		morning set	1330 Jun 13 j 04:50	19°♄04'29	
	1327 Nov 28 j 09:02	0°♄		asc. node	1330 Jun 16 j 18:42	23°♄27'30	
evening max el	1327 Dec 18 j 12:03	21°♄38'15	47°13'21		1330 Jun 22 j 02:43	0°♄	
	1327 Dec 26 j 22:47	0°♄			1330 Jul 16 j 11:56	0°♄	
asc. node	1327 Dec 30 j 23:30	3°♄46'04		max. Earth dist.	1330 Jul 16 j 12:39	0°♄02'13	1.73234 AU
greatest brilliancy	1328 Jan 27 j 21:54	23°♄10'59	-4.9m				
retrograde	1328 Feb 07 j 08:59	25°♄15'25		superior conj	1330 Jul 19 j 13:09	3°♄45'57	1°07'26
evening set	1328 Feb 25 j 08:18	18°♄59'31		minimum elong	1330 Jul 19 j 04:39	3°♄19'42	1°07'10
inferior conj	1328 Feb 28 j 09:45	17°♄04'23	8°40'20		1330 Aug 09 j 18:06	0°♄	

evening rise	1330 Aug 24 j 18:07	18° \mathbb{M} 36'38			1333 Jan 23 j 14:09	0° \mathcal{Z}	
	1330 Sep 02 j 22:15	0° \mathcal{L}		morning max el	1333 Feb 22 j 06:13	25° \mathcal{Z} 09'44	46°38'00
	1330 Sep 27 j 01:48	0° \mathbb{M}			1333 Feb 27 j 01:26	0° \approx	
desc. node	1330 Oct 06 j 08:04	11° \mathbb{M} 29'56		desc. node	1333 Mar 23 j 03:08	25° \approx 49'38	
	1330 Oct 21 j 05:52	0° \mathcal{Z}			1333 Mar 26 j 20:53	0° \mathcal{H}	
	1330 Nov 14 j 11:32	0° \mathcal{Z}			1333 Apr 22 j 02:29	0° \mathcal{Y}	
	1330 Dec 08 j 20:57	0° \approx			1333 May 17 j 16:05	0° \mathcal{B}	
	1331 Jan 02 j 15:22	0° \mathcal{H}			1333 Jun 11 j 20:26	0° \mathbb{I}	
asc. node	1331 Jan 27 j 11:14	29° \mathcal{H} 05'32			1333 Jul 06 j 17:12	0° \mathcal{G}	
	1331 Jan 28 j 06:21	0° \mathcal{Y}		asc. node	1333 Jul 14 j 06:28	9° \mathcal{G} 11'19	
	1331 Feb 24 j 22:59	0° \mathcal{B}			1333 Jul 31 j 06:36	0° \mathcal{Q}	
evening max el	1331 Feb 27 j 19:12	2° \mathcal{B} 50'38	46°09'37	morning set	1333 Aug 20 j 06:55	24° \mathcal{Q} 42'27	
	1331 Apr 02 j 21:09	0° \mathbb{I}			1333 Aug 24 j 13:19	0° \mathbb{M}	
greatest brilliancy	1331 Apr 07 j 10:28	2° \mathbb{I} 01'28	-4.8m		1333 Sep 17 j 15:06	0° \mathcal{L}	
retrograde	1331 Apr 18 j 08:14	4° \mathbb{I} 12'29		max. Earth dist.	1333 Sep 23 j 17:06	7° \mathcal{L} 36'25	1.71798 AU
	1331 May 02 j 23:32	30° \mathcal{R} \mathcal{B}					
evening set	1331 May 03 j 18:02	29° \mathcal{B} 34'35		superior conj	1333 Sep 26 j 15:37	11° \mathcal{L} 17'00	1°13'29
inferior conj	1331 May 09 j 18:10	25° \mathcal{B} 56'45	2°09'54	minimum elong	1333 Sep 27 j 00:24	11° \mathcal{L} 44'30	1°13'16
minimum elong	1331 May 09 j 22:48	25° \mathcal{B} 49'29	2°08'35		1333 Oct 11 j 14:07	0° \mathbb{M}	
min. Earth dist.	1331 May 09 j 20:06	25° \mathcal{B} 53'44	0.28870 AU	desc. node	1333 Nov 02 j 20:00	27° \mathbb{M} 54'05	
morning rise	1331 May 16 j 03:43	22° \mathcal{B} 05'52			1333 Nov 04 j 12:09	0° \mathcal{Z}	
desc. node	1331 May 19 j 00:38	20° \mathcal{B} 37'45		evening rise	1333 Nov 05 j 09:50	1° \mathcal{Z} 08'02	
direct	1331 May 31 j 06:36	17° \mathcal{B} 40'08			1333 Nov 28 j 10:16	0° \mathcal{Z}	
greatest brilliancy	1331 Jun 10 j 13:47	19° \mathcal{B} 34'28	-4.7m		1333 Dec 22 j 09:36	0° \approx	
	1331 Jun 28 j 20:51	0° \mathbb{I}			1334 Jan 15 j 12:12	0° \mathcal{H}	
morning max el	1331 Jul 19 j 01:52	17° \mathbb{I} 24'21	45°46'40		1334 Feb 08 j 21:41	0° \mathcal{Y}	
	1331 Jul 31 j 17:21	0° \mathcal{G}		asc. node	1334 Feb 23 j 23:17	18° \mathcal{Y} 14'29	
	1331 Aug 28 j 06:29	0° \mathcal{Q}			1334 Mar 05 j 19:33	0° \mathcal{B}	
asc. node	1331 Sep 09 j 04:14	13° \mathcal{Q} 42'21			1334 Mar 31 j 14:54	0° \mathbb{I}	
	1331 Sep 22 j 23:48	0° \mathbb{M}			1334 Apr 28 j 04:44	0° \mathcal{G}	
	1331 Oct 17 j 18:09	0° \mathcal{L}		evening max el	1334 May 09 j 11:51	11° \mathcal{G} 15'53	45°22'38
	1331 Nov 11 j 00:00	0° \mathbb{M}			1334 May 31 j 11:09	0° \mathcal{Q}	
	1331 Dec 04 j 23:59	0° \mathcal{Z}		desc. node	1334 Jun 15 j 12:33	8° \mathcal{Q} 32'09	
	1331 Dec 28 j 22:02	0° \mathcal{Z}		greatest brilliancy	1334 Jun 16 j 10:19	8° \mathcal{Q} 52'30	-4.7m
desc. node	1331 Dec 29 j 17:30	1° \mathcal{Z} 01'04		retrograde	1334 Jun 26 j 23:44	10° \mathcal{Q} 51'50	
morning set	1332 Jan 19 j 10:11	26° \mathcal{Z} 58'03		evening set	1334 Jul 13 j 05:30	5° \mathcal{Q} 52'59	
	1332 Jan 21 j 20:17	0° \approx		inferior conj	1334 Jul 18 j 10:28	2° \mathcal{Q} 44'05	-6°45'16
	1332 Feb 14 j 19:56	0° \mathcal{H}		minimum elong	1334 Jul 18 j 00:42	2° \mathcal{Q} 59'19	6°43'28
				min. Earth dist.	1334 Jul 18 j 12:40	2° \mathcal{Q} 40'41	0.28877 AU
superior conj	1332 Feb 29 j 03:01	17° \mathcal{H} 49'19	-1°25'07	morning rise	1334 Jul 22 j 19:43	0° \mathcal{Q} 03'08	
minimum elong	1332 Feb 29 j 05:56	17° \mathcal{H} 58'25	1°25'05		1334 Jul 22 j 21:51	30° \mathcal{R} \mathcal{G}	
max. Earth dist.	1332 Mar 04 j 00:44	22° \mathcal{H} 40'53	1.72234 AU	direct	1334 Aug 09 j 01:39	24° \mathcal{G} 28'25	
	1332 Mar 09 j 22:05	0° \mathcal{Y}		greatest brilliancy	1334 Aug 19 j 17:29	26° \mathcal{G} 31'42	-4.8m
	1332 Apr 03 j 03:37	0° \mathcal{B}			1334 Aug 27 j 02:41	0° \mathcal{Q}	
evening rise	1332 Apr 08 j 03:20	6° \mathcal{B} 09'05		morning max el	1334 Sep 27 j 18:26	25° \mathcal{Q} 48'23	46°21'11
asc. node	1332 Apr 20 j 21:07	21° \mathcal{B} 49'26			1334 Oct 01 j 22:29	0° \mathbb{M}	
	1332 Apr 27 j 13:01	0° \mathbb{I}		asc. node	1334 Oct 06 j 16:03	4° \mathbb{M} 53'54	
	1332 May 22 j 02:29	0° \mathcal{G}			1334 Oct 29 j 10:06	0° \mathcal{L}	
	1332 Jun 15 j 20:36	0° \mathcal{Q}			1334 Nov 23 j 21:21	0° \mathbb{M}	
	1332 Jul 10 j 21:11	0° \mathbb{M}			1334 Dec 18 j 13:09	0° \mathcal{Z}	
	1332 Aug 05 j 08:07	0° \mathcal{L}			1335 Jan 11 j 21:02	0° \mathcal{Z}	
desc. node	1332 Aug 10 j 10:09	5° \mathcal{L} 54'15		desc. node	1335 Jan 26 j 05:19	17° \mathcal{Z} 45'51	
	1332 Aug 31 j 12:57	0° \mathbb{M}			1335 Feb 05 j 02:17	0° \approx	
	1332 Sep 28 j 07:58	0° \mathcal{Z}			1335 Mar 01 j 07:23	0° \mathcal{H}	
evening max el	1332 Oct 03 j 19:25	5° \mathcal{Z} 31'40	47°00'03		1335 Mar 25 j 13:37	0° \mathcal{Y}	
	1332 Nov 01 j 08:09	0° \mathcal{Z}		morning set	1335 Apr 03 j 13:28	11° \mathcal{Y} 06'04	
greatest brilliancy	1332 Nov 13 j 06:19	6° \mathcal{Z} 13'40	-4.9m		1335 Apr 18 j 21:32	0° \mathcal{B}	
retrograde	1332 Nov 23 j 06:03	8° \mathcal{Z} 06'59					
asc. node	1332 Dec 01 j 13:40	6° \mathcal{Z} 40'53		superior conj	1335 May 10 j 22:30	27° \mathcal{B} 06'40	-0°19'53
evening set	1332 Dec 07 j 14:23	3° \mathcal{Z} 59'08		minimum elong	1335 May 11 j 02:36	27° \mathcal{B} 19'17	0°19'41
min. Earth dist.	1332 Dec 13 j 05:17	0° \mathcal{Z} 42'03	0.26456 AU	max. Earth dist.	1335 May 11 j 18:44	28° \mathcal{B} 08'52	1.73504 AU
inferior conj	1332 Dec 13 j 18:02	0° \mathcal{Z} 22'35	3°06'27		1335 May 13 j 06:55	0° \mathbb{I}	
minimum elong	1332 Dec 13 j 11:19	0° \mathcal{Z} 32'51	3°04'23	asc. node	1335 May 19 j 08:56	7° \mathbb{I} 28'31	
	1332 Dec 14 j 08:51	30° \mathcal{R} \mathcal{Z}			1335 Jun 06 j 17:03	0° \mathcal{G}	
morning rise	1332 Dec 19 j 08:40	27° \mathcal{Z} 05'05		evening rise	1335 Jun 16 j 07:27	11° \mathcal{G} 47'13	
direct	1333 Jan 03 j 02:35	22° \mathcal{Z} 46'04			1335 Jul 01 j 03:25	0° \mathcal{Q}	
greatest brilliancy	1333 Jan 12 j 15:48	24° \mathcal{Z} 30'47	-4.9m		1335 Jul 25 j 14:19	0° \mathbb{M}	

	1335 Aug 19 j 02:54	0°♄		1338 Mar 15 j 02:10	0°♁	
desc. node	1335 Sep 07 j 22:13	24°♄06'43		1338 Apr 08 j 19:20	0°♁	
	1335 Sep 12 j 18:43	0°♄		1338 May 03 j 10:57	0°♁	
	1335 Oct 07 j 15:44	0°♁		1338 May 28 j 01:14	0°♄	
	1335 Nov 01 j 22:12	0°♁	morning set	1338 Jun 10 j 23:04	17°♄00'34	
	1335 Nov 28 j 02:30	0°♁	asc. node	1338 Jun 15 j 20:42	23°♄00'53	
evening max el	1335 Dec 16 j 01:36	19°♁13'39 47°14'33		1338 Jun 21 j 13:22	0°♁	
	1335 Dec 27 j 01:26	0°♁	max. Earth dist.	1338 Jul 14 j 10:53	28°♁09'59 1.73267 AU	
asc. node	1335 Dec 30 j 01:28	2°♁44'51		1338 Jul 15 j 22:33	0°♄	
greatest brilliancy	1336 Jan 25 j 14:03	20°♁52'32 -4.9m				
retrograde	1336 Feb 04 j 23:39	22°♁56'05	superior conj	1338 Jul 17 j 07:31	1°♄41'43 1°05'28	
evening set	1336 Feb 22 j 23:38	16°♁40'02	minimum elong	1338 Jul 16 j 22:52	1°♄15'03 1°05'12	
min. Earth dist.	1336 Feb 25 j 11:37	15°♁06'18 0.27973 AU		1338 Aug 09 j 04:46	0°♄	
inferior conj	1336 Feb 26 j 00:35	14°♁45'49 8°43'12	evening rise	1338 Aug 22 j 11:04	16°♄26'58	
minimum elong	1336 Feb 26 j 02:23	14°♁42'57 8°43'09		1338 Sep 02 j 09:05	0°♄	
morning rise	1336 Feb 29 j 05:21	12°♁46'09		1338 Sep 26 j 12:53	0°♄	
direct	1336 Mar 17 j 22:10	6°♁45'47	desc. node	1338 Oct 05 j 10:11	11°♄01'43	
greatest brilliancy	1336 Mar 27 j 02:17	8°♁19'09 -4.8m		1338 Oct 20 j 17:18	0°♁	
desc. node	1336 Apr 19 j 14:49	22°♁33'37		1338 Nov 13 j 23:24	0°♁	
	1336 Apr 28 j 07:00	0°♁		1338 Dec 08 j 09:23	0°♁	
morning max el	1336 May 05 j 23:45	7°♁10'56 45°55'38		1339 Jan 02 j 04:45	0°♁	
	1336 May 28 j 07:48	0°♁	asc. node	1339 Jan 26 j 13:23	28°♁28'17	
	1336 Jun 24 j 10:34	0°♄		1339 Jan 27 j 21:42	0°♁	
	1336 Jul 20 j 08:17	0°♁		1339 Feb 24 j 19:51	0°♁	
asc. node	1336 Aug 10 j 18:25	25°♁30'49	evening max el	1339 Feb 25 j 11:23	0°♁38'36 46°12'11	
	1336 Aug 14 j 11:42	0°♄	greatest brilliancy	1339 Apr 05 j 02:50	29°♁51'56 -4.8m	
	1336 Sep 08 j 01:41	0°♄		1339 Apr 05 j 11:25	0°♄	
	1336 Oct 02 j 06:14	0°♄	retrograde	1339 Apr 16 j 01:20	2°♄03'16	
	1336 Oct 26 j 05:10	0°♄		1339 Apr 26 j 03:18	30°♁	
greatest brilliancy	1336 Oct 30 j 01:31	4°♄50'06 -3.9m	evening set	1339 May 01 j 12:12	27°♁22'53	
morning set	1336 Oct 30 j 23:38	5°♄59'38	inferior conj	1339 May 07 j 10:30	23°♁47'18 2°29'12	
	1336 Nov 19 j 01:35	0°♁	minimum elong	1339 May 07 j 15:46	23°♁39'02 2°27'42	
desc. node	1336 Nov 30 j 07:45	14°♁10'17	min. Earth dist.	1339 May 07 j 12:08	23°♁44'44 0.28857 AU	
			morning rise	1339 May 13 j 19:34	19°♁57'15	
superior conj	1336 Dec 10 j 23:33	27°♁35'23 -0°25'08	desc. node	1339 May 18 j 02:37	17°♁51'10	
minimum elong	1336 Dec 10 j 16:58	27°♁14'44 0°24'49	direct	1339 May 28 j 23:08	15°♁30'58	
max. Earth dist.	1336 Dec 12 j 02:31	29°♁00'16 1.71062 AU	greatest brilliancy	1339 Jun 08 j 04:43	17°♁24'23 -4.7m	
	1336 Dec 12 j 21:30	0°♁		1339 Jun 29 j 08:30	0°♄	
	1337 Jan 05 j 18:13	0°♁	morning max el	1339 Jul 16 j 18:43	15°♄17'16 45°46'07	
evening rise	1337 Jan 21 j 11:23	19°♁42'10		1339 Jul 31 j 11:24	0°♁	
	1337 Jan 29 j 16:58	0°♁		1339 Aug 27 j 20:38	0°♄	
	1337 Feb 22 j 19:25	0°♁	asc. node	1339 Sep 08 j 06:20	13°♄09'46	
	1337 Mar 19 j 03:40	0°♁		1339 Sep 22 j 12:22	0°♄	
asc. node	1337 Mar 23 j 11:17	5°♁16'47		1339 Oct 17 j 05:57	0°♄	
	1337 Apr 12 j 20:03	0°♄		1339 Nov 10 j 11:25	0°♄	
	1337 May 07 j 23:36	0°♁		1339 Dec 04 j 11:12	0°♁	
	1337 Jun 02 j 20:09	0°♄		1339 Dec 28 j 09:08	0°♁	
	1337 Jun 30 j 00:07	0°♄	desc. node	1339 Dec 28 j 19:32	0°♁32'41	
desc. node	1337 Jul 13 j 00:22	13°♄27'02	morning set	1340 Jan 16 j 20:05	24°♁24'20	
evening max el	1337 Jul 19 j 23:05	20°♄15'22 45°47'50		1340 Jan 21 j 07:15	0°♁	
	1337 Jul 30 j 14:41	0°♄		1340 Feb 14 j 06:47	0°♁	
greatest brilliancy	1337 Aug 28 j 23:04	18°♄51'47 -4.8m				
retrograde	1337 Sep 07 j 00:18	20°♄21'57	superior conj	1340 Feb 26 j 15:39	15°♁25'33 -1°25'32	
evening set	1337 Sep 24 j 03:07	14°♄51'36	minimum elong	1340 Feb 26 j 17:39	15°♁31'46 1°25'32	
inferior conj	1337 Sep 27 j 22:12	12°♄35'12 -7°36'48	max. Earth dist.	1340 Mar 01 j 15:39	20°♁24'23 1.72178 AU	
minimum elong	1337 Sep 28 j 07:33	12°♄20'56 7°35'19		1340 Mar 09 j 08:50	0°♁	
min. Earth dist.	1337 Sep 28 j 20:35	12°♄01'03 0.27470 AU		1340 Apr 02 j 14:21	0°♁	
morning rise	1337 Oct 02 j 11:32	9°♄51'32	evening rise	1340 Apr 05 j 18:31	3°♁54'56	
direct	1337 Oct 18 j 20:21	4°♄39'00	asc. node	1340 Apr 19 j 23:06	21°♁22'30	
greatest brilliancy	1337 Oct 30 j 01:07	6°♄59'54 -4.9m		1340 Apr 26 j 23:50	0°♄	
asc. node	1337 Nov 03 j 03:47	8°♄52'53		1340 May 21 j 13:30	0°♁	
	1337 Nov 30 j 10:58	0°♄		1340 Jun 15 j 08:02	0°♄	
morning max el	1337 Dec 08 j 15:24	8°♄05'52 46°56'02		1340 Jul 10 j 09:22	0°♄	
	1337 Dec 28 j 23:58	0°♁		1340 Aug 04 j 21:34	0°♄	
	1338 Jan 24 j 00:51	0°♁	desc. node	1340 Aug 09 j 12:19	5°♄20'44	
	1338 Feb 18 j 05:35	0°♁		1340 Aug 31 j 04:47	0°♄	
desc. node	1338 Feb 22 j 17:22	5°♁24'02		1340 Sep 28 j 05:37	0°♁	

evening max el	1340 Oct 01 j 09:53	3° 𐌶 10'55	46°57'59		1343 Mar 25 j 00:30	0° 𐌶	
	1340 Nov 02 j 20:10	0° 𐌶		morning set	1343 Apr 01 j 05:09	8° 𐌶 53'02	
greatest brilliancy	1340 Nov 10 j 19:49	3° 𐌶 46'18	-4.9m		1343 Apr 18 j 08:16	0° 𐌶	
retrograde	1340 Nov 20 j 18:32	5° 𐌶 38'04					
asc. node	1340 Nov 30 j 15:37	3° 𐌶 37'46		superior conj	1343 May 08 j 15:56	25° 𐌶 00'05	-0°23'01
evening set	1340 Dec 05 j 01:51	1° 𐌶 32'26		minimum elong	1343 May 08 j 20:40	25° 𐌶 14'37	0°22'47
	1340 Dec 07 j 19:22	30° 𐌶 𐌶		max. Earth dist.	1343 May 09 j 13:35	26° 𐌶 06'38	1.73482 AU
inferior conj	1340 Dec 11 j 06:21	27° 𐌶 54'39	2°43'15		1343 May 12 j 17:33	0° 𐌶	
minimum elong	1340 Dec 11 j 00:23	28° 𐌶 03'47	2°41'24	asc. node	1343 May 18 j 10:55	7° 𐌶 01'58	
min. Earth dist.	1340 Dec 10 j 18:59	28° 𐌶 12'02	0.26434 AU		1343 Jun 06 j 03:42	0° 𐌶	
morning rise	1340 Dec 16 j 23:17	24° 𐌶 33'50		evening rise	1343 Jun 14 j 02:19	9° 𐌶 45'03	
direct	1340 Dec 31 j 15:07	20° 𐌶 18'34			1343 Jun 30 j 14:12	0° 𐌶	
greatest brilliancy	1341 Jan 10 j 05:30	22° 𐌶 04'09	-4.9m		1343 Jul 25 j 01:23	0° 𐌶	
	1341 Jan 24 j 18:25	0° 𐌶			1343 Aug 18 j 14:25	0° 𐌶	
morning max el	1341 Feb 19 j 18:59	22° 𐌶 44'59	46°39'16	desc. node	1343 Sep 07 j 00:15	23° 𐌶 36'30	
	1341 Feb 26 j 22:19	0° 𐌶			1343 Sep 12 j 06:52	0° 𐌶	
desc. node	1341 Mar 22 j 05:10	25° 𐌶 10'35			1343 Oct 07 j 04:50	0° 𐌶	
	1341 Mar 26 j 12:25	0° 𐌶			1343 Nov 01 j 12:49	0° 𐌶	
	1341 Apr 21 j 15:48	0° 𐌶			1343 Nov 27 j 20:15	0° 𐌶	
	1341 May 17 j 04:13	0° 𐌶		evening max el	1343 Dec 13 j 15:23	16° 𐌶 49'58	47°15'48
	1341 Jun 11 j 07:51	0° 𐌶			1343 Dec 27 j 05:33	0° 𐌶	
	1341 Jul 06 j 04:11	0° 𐌶		asc. node	1343 Dec 29 j 03:39	1° 𐌶 43'04	
asc. node	1341 Jul 13 j 08:35	8° 𐌶 44'33		greatest brilliancy	1344 Jan 23 j 05:40	18° 𐌶 33'49	-4.9m
	1341 Jul 30 j 17:22	0° 𐌶		retrograde	1344 Feb 02 j 14:39	20° 𐌶 37'27	
morning set	1341 Aug 17 j 23:31	22° 𐌶 32'00		evening set	1344 Feb 20 j 14:34	14° 𐌶 21'34	
	1341 Aug 24 j 00:00	0° 𐌶		min. Earth dist.	1344 Feb 23 j 01:48	12° 𐌶 49'15	0.27921 AU
	1341 Sep 17 j 01:49	0° 𐌶		inferior conj	1344 Feb 23 j 15:27	12° 𐌶 27'43	8°45'08
max. Earth dist.	1341 Sep 21 j 03:04	5° 𐌶 03'58	1.71847 AU	minimum elong	1344 Feb 23 j 16:25	12° 𐌶 26'11	8°45'07
				morning rise	1344 Feb 26 j 18:27	10° 𐌶 30'54	
superior conj	1341 Sep 24 j 06:24	8° 𐌶 59'32	1°15'11	direct	1344 Mar 15 j 11:49	4° 𐌶 28'19	
minimum elong	1341 Sep 24 j 14:41	9° 𐌶 25'27	1°14'59	greatest brilliancy	1344 Mar 24 j 16:13	6° 𐌶 01'55	-4.8m
	1341 Oct 11 j 00:56	0° 𐌶		desc. node	1344 Apr 18 j 16:50	21° 𐌶 30'32	
desc. node	1341 Nov 01 j 21:59	27° 𐌶 26'07			1344 Apr 28 j 08:52	0° 𐌶	
evening rise	1341 Nov 02 j 21:17	28° 𐌶 39'12		morning max el	1344 May 03 j 14:38	4° 𐌶 56'37	45°56'47
	1341 Nov 03 j 23:03	0° 𐌶			1344 May 28 j 00:26	0° 𐌶	
	1341 Nov 27 j 21:18	0° 𐌶			1344 Jun 24 j 00:16	0° 𐌶	
	1341 Dec 21 j 20:48	0° 𐌶			1344 Jul 19 j 20:36	0° 𐌶	
	1342 Jan 14 j 23:40	0° 𐌶		asc. node	1344 Aug 09 j 20:30	25° 𐌶 01'53	
	1342 Feb 08 j 09:36	0° 𐌶			1344 Aug 13 j 23:18	0° 𐌶	
asc. node	1342 Feb 23 j 01:22	17° 𐌶 43'47			1344 Sep 07 j 12:56	0° 𐌶	
	1342 Mar 05 j 08:17	0° 𐌶			1344 Oct 01 j 17:18	0° 𐌶	
	1342 Mar 31 j 05:19	0° 𐌶			1344 Oct 25 j 16:10	0° 𐌶	
	1342 Apr 27 j 23:30	0° 𐌶		morning set	1344 Oct 28 j 11:57	3° 𐌶 32'52	
evening max el	1342 May 07 j 02:41	9° 𐌶 03'10	45°23'08		1344 Nov 18 j 12:36	0° 𐌶	
	1342 Jun 01 j 06:15	0° 𐌶		desc. node	1344 Nov 29 j 09:47	13° 𐌶 41'56	
greatest brilliancy	1342 Jun 14 j 01:35	6° 𐌶 42'42	-4.7m				
desc. node	1342 Jun 14 j 14:35	6° 𐌶 54'13		superior conj	1344 Dec 08 j 09:04	24° 𐌶 59'32	-0°21'14
retrograde	1342 Jun 24 j 15:00	8° 𐌶 42'39		minimum elong	1344 Dec 08 j 03:27	24° 𐌶 41'53	0°20'58
evening set	1342 Jul 10 j 18:32	3° 𐌶 47'34		max. Earth dist.	1344 Dec 09 j 08:43	26° 𐌶 13'58	1.71057 AU
inferior conj	1342 Jul 16 j 02:32	0° 𐌶 34'30	-6°32'19		1344 Dec 12 j 08:33	0° 𐌶	
minimum elong	1342 Jul 15 j 16:39	0° 𐌶 49'55	6°30'25		1345 Jan 05 j 05:17	0° 𐌶	
min. Earth dist.	1342 Jul 16 j 04:39	0° 𐌶 31'13	0.28896 AU	evening rise	1345 Jan 18 j 21:53	17° 𐌶 10'13	
	1342 Jul 17 j 00:40	30° 𐌶 𐌶			1345 Jan 29 j 04:02	0° 𐌶	
morning rise	1342 Jul 20 j 14:31	27° 𐌶 49'21			1345 Feb 22 j 06:32	0° 𐌶	
direct	1342 Aug 06 j 17:22	22° 𐌶 18'24			1345 Mar 18 j 14:57	0° 𐌶	
greatest brilliancy	1342 Aug 17 j 09:57	24° 𐌶 21'48	-4.8m	asc. node	1345 Mar 22 j 13:16	4° 𐌶 48'12	
	1342 Aug 28 j 09:53	0° 𐌶			1345 Apr 12 j 07:44	0° 𐌶	
morning max el	1342 Sep 25 j 08:35	23° 𐌶 30'34	46°19'40		1345 May 07 j 12:06	0° 𐌶	
	1342 Oct 01 j 18:32	0° 𐌶			1345 Jun 02 j 10:14	0° 𐌶	
asc. node	1342 Oct 05 j 18:03	4° 𐌶 09'31			1345 Jun 29 j 17:47	0° 𐌶	
	1342 Oct 29 j 01:15	0° 𐌶		desc. node	1345 Jul 12 j 02:32	12° 𐌶 40'24	
	1342 Nov 23 j 10:38	0° 𐌶		evening max el	1345 Jul 17 j 13:43	18° 𐌶 00'02	45°45'53
	1342 Dec 18 j 01:29	0° 𐌶			1345 Jul 30 j 21:11	0° 𐌶	
	1343 Jan 11 j 08:47	0° 𐌶		greatest brilliancy	1345 Aug 26 j 10:42	16° 𐌶 30'17	-4.8m
desc. node	1343 Jan 25 j 07:30	17° 𐌶 16'57		retrograde	1345 Sep 04 j 13:55	18° 𐌶 01'38	
	1343 Feb 04 j 13:37	0° 𐌶		evening set	1345 Sep 21 j 19:24	12° 𐌶 26'31	
	1343 Feb 28 j 18:27	0° 𐌶		inferior conj	1345 Sep 25 j 11:46	10° 𐌶 13'52	-7°47'21





































































































































minimum elong	1345 Sep 25 j 20:40	10° Ω 00'17	7°46'03	evening rise	1348 Apr 03 j 09:31	1° \mathcal{B} 38'56	
min. Earth dist.	1345 Sep 26 j 09:40	9° Ω 40'28	0.27540 AU	asc. node	1348 Apr 19 j 01:10	20° \mathcal{B} 54'43	
morning rise	1345 Sep 29 j 21:35	7° Ω 35'18			1348 Apr 26 j 10:59	0° Π	
direct	1345 Oct 16 j 11:19	2° Ω 16'44			1348 May 21 j 00:51	0° \mathcal{E}	
greatest brilliancy	1345 Oct 27 j 15:12	4° Ω 37'12	-4.9m		1348 Jun 14 j 19:48	0° Ω	
asc. node	1345 Nov 02 j 05:49	7° Ω 18'04			1348 Jul 09 j 21:54	0° \mathcal{M}	
	1345 Nov 30 j 12:36	0° \mathcal{M}			1348 Aug 04 j 11:28	0° Ω	
morning max el	1345 Dec 06 j 06:44	5° \mathcal{M} 45'10	46°55'26	desc. node	1348 Aug 08 j 14:17	4° Ω 45'25	
	1345 Dec 28 j 17:15	0° \mathcal{A}			1348 Aug 30 j 21:18	0° \mathcal{M}	
	1346 Jan 23 j 15:20	0° \mathcal{E}			1348 Sep 28 j 04:41	0° \mathcal{A}	
	1346 Feb 17 j 18:39	0° \approx		evening max el	1348 Sep 28 j 23:25	0° \mathcal{A} 46'30	46°55'42
desc. node	1346 Feb 21 j 19:19	4° \approx 51'06			1348 Nov 05 j 04:56	0° \mathcal{E}	
	1346 Mar 14 j 14:22	0° \mathcal{H}		greatest brilliancy	1348 Nov 08 j 09:40	1° \mathcal{E} 17'37	-4.9m
	1346 Apr 08 j 06:55	0° Υ		retrograde	1348 Nov 18 j 06:11	3° \mathcal{E} 07'20	
	1346 May 02 j 22:08	0° \mathcal{B}		asc. node	1348 Nov 29 j 17:47	0° \mathcal{E} 27'04	
	1346 May 27 j 12:09	0° Π			1348 Nov 30 j 16:56	30° \mathcal{R} \mathcal{A}	
morning set	1346 Jun 08 j 17:30	14° Π 56'55		evening set	1348 Dec 02 j 13:21	29° \mathcal{A} 03'28	
asc. node	1346 Jun 14 j 22:50	22° Π 34'14		inferior conj	1348 Dec 08 j 18:31	25° \mathcal{A} 25'00	2°19'39
	1346 Jun 21 j 00:11	0° \mathcal{E}		minimum elong	1348 Dec 08 j 13:20	25° \mathcal{A} 32'55	2°18'01
max. Earth dist.	1346 Jul 12 j 08:03	26° \mathcal{E} 14'01	1.73301 AU	min. Earth dist.	1348 Dec 08 j 08:52	25° \mathcal{A} 39'45	0.26416 AU
				morning rise	1348 Dec 14 j 13:35	22° \mathcal{A} 01'02	
superior conj	1346 Jul 15 j 01:58	29° \mathcal{E} 37'14	1°03'26	direct	1348 Dec 29 j 03:01	17° \mathcal{A} 49'08	
minimum elong	1346 Jul 14 j 17:15	29° \mathcal{E} 10'21	1°03'09	greatest brilliancy	1349 Jan 07 j 19:39	19° \mathcal{A} 36'19	-4.9m
	1346 Jul 15 j 09:21	0° Ω			1349 Jan 25 j 15:46	0° \mathcal{E}	
	1346 Aug 08 j 15:39	0° \mathcal{M}		morning max el	1349 Feb 17 j 06:48	20° \mathcal{E} 16'21	46°40'34
evening rise	1346 Aug 20 j 04:04	14° \mathcal{M} 16'45			1349 Feb 26 j 18:59	0° \approx	
	1346 Sep 01 j 20:08	0° Ω		desc. node	1349 Mar 21 j 07:11	24° \approx 30'40	
	1346 Sep 26 j 00:12	0° \mathcal{M}			1349 Mar 26 j 04:08	0° \mathcal{H}	
desc. node	1346 Oct 04 j 12:06	10° \mathcal{M} 32'17			1349 Apr 21 j 05:24	0° Υ	
	1346 Oct 20 j 04:59	0° \mathcal{A}			1349 May 16 j 16:41	0° \mathcal{B}	
	1346 Nov 13 j 11:31	0° \mathcal{E}			1349 Jun 10 j 19:37	0° Π	
	1346 Dec 07 j 22:07	0° \approx			1349 Jul 05 j 15:30	0° \mathcal{E}	
	1347 Jan 01 j 18:32	0° \mathcal{H}		asc. node	1349 Jul 12 j 10:41	8° \mathcal{E} 16'40	
asc. node	1347 Jan 25 j 15:28	27° \mathcal{H} 49'35			1349 Jul 30 j 04:26	0° Ω	
	1347 Jan 27 j 13:36	0° Υ		morning set	1349 Aug 15 j 16:20	20° Ω 21'20	
evening max el	1347 Feb 23 j 03:54	28° Υ 26'16	46°14'42		1349 Aug 23 j 11:00	0° \mathcal{M}	
	1347 Feb 24 j 17:53	0° \mathcal{B}			1349 Sep 16 j 12:52	0° Ω	
greatest brilliancy	1347 Apr 02 j 19:48	27° \mathcal{B} 42'19	-4.8m	max. Earth dist.	1349 Sep 18 j 16:10	2° Ω 40'20	1.71903 AU
retrograde	1347 Apr 13 j 18:08	29° \mathcal{B} 53'14					
evening set	1347 Apr 29 j 06:35	25° \mathcal{B} 10'32		superior conj	1349 Sep 21 j 21:22	6° Ω 41'41	1°16'44
inferior conj	1347 May 05 j 02:53	21° \mathcal{B} 37'18	2°48'09	minimum elong	1349 Sep 22 j 05:07	7° Ω 05'54	1°16'34
minimum elong	1347 May 05 j 08:45	21° \mathcal{B} 28'04	2°46'31		1349 Oct 10 j 12:05	0° \mathcal{M}	
min. Earth dist.	1347 May 05 j 04:18	21° \mathcal{B} 35'05	0.28838 AU	evening rise	1349 Oct 31 j 08:45	26° \mathcal{M} 09'14	
morning rise	1347 May 11 j 11:16	17° \mathcal{B} 48'08		desc. node	1349 Nov 01 j 00:06	26° \mathcal{M} 57'21	
desc. node	1347 May 17 j 04:38	15° \mathcal{B} 08'02			1349 Nov 03 j 10:22	0° \mathcal{A}	
direct	1347 May 26 j 15:44	13° \mathcal{B} 21'28			1349 Nov 27 j 08:45	0° \mathcal{E}	
greatest brilliancy	1347 Jun 05 j 19:29	15° \mathcal{B} 13'30	-4.7m		1349 Dec 21 j 08:26	0° \approx	
	1347 Jun 29 j 17:19	0° Π			1350 Jan 14 j 11:34	0° \mathcal{H}	
morning max el	1347 Jul 14 j 10:47	13° Π 07'42	45°45'33		1350 Feb 07 j 21:56	0° Υ	
	1347 Jul 31 j 05:16	0° \mathcal{E}		asc. node	1350 Feb 22 j 03:20	17° Υ 11'26	
	1347 Aug 27 j 10:55	0° Ω			1350 Mar 04 j 21:28	0° \mathcal{B}	
asc. node	1347 Sep 07 j 08:18	12° Ω 36'03			1350 Mar 30 j 20:19	0° Π	
	1347 Sep 22 j 01:10	0° \mathcal{M}			1350 Apr 27 j 19:17	0° \mathcal{E}	
	1347 Oct 16 j 18:02	0° Ω		evening max el	1350 May 04 j 17:17	6° \mathcal{E} 48'45	45°23'48
	1347 Nov 09 j 23:08	0° \mathcal{M}			1350 Jun 02 j 09:12	0° Ω	
	1347 Dec 03 j 22:42	0° \mathcal{A}		greatest brilliancy	1350 Jun 11 j 16:24	4° Ω 31'16	-4.7m
desc. node	1347 Dec 27 j 21:41	0° \mathcal{E} 03'44		desc. node	1350 Jun 13 j 16:46	5° Ω 11'42	
	1347 Dec 27 j 20:29	0° \mathcal{E}		retrograde	1350 Jun 22 j 06:44	6° Ω 32'35	
morning set	1348 Jan 14 j 05:52	21° \mathcal{E} 49'16		evening set	1350 Jul 08 j 07:37	1° Ω 40'52	
	1348 Jan 20 j 18:29	0° \approx			1350 Jul 11 j 04:21	30° \mathcal{R} \mathcal{E}	
	1348 Feb 13 j 17:56	0° \mathcal{H}		inferior conj	1350 Jul 13 j 18:34	28° \mathcal{E} 23'55	-6°18'47
				minimum elong	1350 Jul 13 j 08:37	28° \mathcal{E} 39'25	6°16'48
superior conj	1348 Feb 24 j 04:06	13° \mathcal{H} 00'09	-1°25'48	min. Earth dist.	1350 Jul 13 j 20:26	28° \mathcal{E} 21'00	0.28912 AU
minimum elong	1348 Feb 24 j 05:10	13° \mathcal{H} 03'27	1°25'49	morning rise	1350 Jul 18 j 09:20	25° \mathcal{E} 34'47	
max. Earth dist.	1348 Feb 28 j 06:47	18° \mathcal{H} 07'29	1.72123 AU	direct	1350 Aug 04 j 09:02	20° \mathcal{E} 07'24	
	1348 Mar 08 j 19:56	0° Υ		greatest brilliancy	1350 Aug 15 j 02:28	22° \mathcal{E} 11'19	-4.8m
	1348 Apr 02 j 01:26	0° \mathcal{B}			1350 Aug 29 j 08:43	0° Ω	

morning max el	1350 Sep 22 j 23:18	21° Ω 13'38	46°18'13		1353 May 07 j 00:50	0° Θ	
	1350 Oct 01 j 14:14	0° Π			1353 Jun 02 j 00:38	0° Ω	
asc. node	1350 Oct 04 j 20:08	3° Π 25'15			1353 Jun 29 j 12:01	0° Π	
	1350 Oct 28 j 16:28	0° Ω		desc. node	1353 Jul 11 j 04:29	11° Π 52'01	
	1350 Nov 23 j 00:07	0° Π		evening max el	1353 Jul 15 j 04:33	15° Π 44'53	45°43'57
	1350 Dec 17 j 14:06	0° \mathcal{A}			1353 Jul 31 j 06:23	0° Ω	
	1351 Jan 10 j 20:52	0° \mathcal{B}		greatest brilliancy	1353 Aug 23 j 22:39	14° Ω 09'03	-4.8m
desc. node	1351 Jan 24 j 09:31	16° \mathcal{B} 46'19		retrograde	1353 Sep 02 j 03:16	15° Ω 41'01	
	1351 Feb 04 j 01:21	0° \approx		evening set	1353 Sep 19 j 11:33	10° Ω 01'43	
	1351 Feb 28 j 05:53	0° \mathcal{H}		inferior conj	1353 Sep 23 j 01:19	7° Ω 52'33	-7°57'07
	1351 Mar 24 j 11:41	0° Υ		minimum elong	1353 Sep 23 j 09:41	7° Ω 39'44	7°56'01
morning set	1351 Mar 29 j 20:16	6° Υ 37'08		min. Earth dist.	1353 Sep 23 j 22:40	7° Ω 19'54	0.27605 AU
	1351 Apr 17 j 19:17	0° \mathcal{B}		morning rise	1353 Sep 27 j 07:32	5° Ω 19'01	
					1353 Oct 12 j 00:19	30° \mathcal{R} Π	
superior conj	1351 May 06 j 09:02	22° \mathcal{B} 51'27	-0°26'08	direct	1353 Oct 14 j 02:14	29° Π 54'42	
minimum elong	1351 May 06 j 14:22	23° \mathcal{B} 07'52	0°25'54		1353 Oct 16 j 04:34	0° Ω	
max. Earth dist.	1351 May 07 j 08:34	24° \mathcal{B} 03'49	1.73459 AU	greatest brilliancy	1353 Oct 25 j 04:53	2° Ω 14'06	-4.9m
	1351 May 12 j 04:30	0° Π		asc. node	1353 Nov 01 j 07:55	5° Ω 46'37	
asc. node	1351 May 17 j 13:04	6° Π 34'55			1353 Nov 30 j 12:53	0° Π	
	1351 Jun 05 j 14:40	0° Θ		morning max el	1353 Dec 03 j 21:13	3° Π 22'36	46°54'56
evening rise	1351 Jun 11 j 21:07	7° Θ 41'39			1353 Dec 28 j 10:04	0° \mathcal{A}	
	1351 Jun 30 j 01:19	0° Ω			1354 Jan 23 j 05:32	0° \mathcal{B}	
	1351 Jul 24 j 12:46	0° Π			1354 Feb 17 j 07:32	0° \approx	
	1351 Aug 18 j 02:12	0° Ω		desc. node	1354 Feb 20 j 21:20	4° \approx 18'48	
desc. node	1351 Sep 06 j 02:16	23° Ω 05'34			1354 Mar 14 j 02:26	0° \mathcal{H}	
	1351 Sep 11 j 19:16	0° Π			1354 Apr 07 j 18:28	0° Υ	
	1351 Oct 06 j 18:11	0° \mathcal{A}			1354 May 02 j 09:17	0° \mathcal{B}	
	1351 Nov 01 j 03:49	0° \mathcal{B}			1354 May 26 j 23:04	0° Π	
	1351 Nov 27 j 14:42	0° \approx		morning set	1354 Jun 06 j 11:35	12° Π 52'14	
evening max el	1351 Dec 11 j 05:41	14° \approx 26'43	47°16'45	asc. node	1354 Jun 14 j 00:53	22° Π 07'27	
	1351 Dec 27 j 12:11	0° \mathcal{H}			1354 Jun 20 j 10:57	0° Θ	
asc. node	1351 Dec 28 j 05:40	0° \mathcal{H} 38'04		max. Earth dist.	1354 Jul 10 j 03:52	24° Θ 14'07	1.73333 AU
greatest brilliancy	1352 Jan 20 j 20:22	16° \mathcal{H} 12'09	-4.9m				
retrograde	1352 Jan 31 j 05:48	18° \mathcal{H} 16'32		superior conj	1354 Jul 12 j 20:08	27° Θ 32'11	1°01'18
evening set	1352 Feb 18 j 04:42	12° \mathcal{H} 01'21		minimum elong	1354 Jul 12 j 11:24	27° Θ 05'14	1°01'00
min. Earth dist.	1352 Feb 20 j 15:20	10° \mathcal{H} 30'13	0.27871 AU		1354 Jul 14 j 20:05	0° Ω	
inferior conj	1352 Feb 21 j 05:57	10° \mathcal{H} 07'14	8°46'11		1354 Aug 08 j 02:28	0° Π	
minimum elong	1352 Feb 21 j 06:03	10° \mathcal{H} 07'03	8°46'11	evening rise	1354 Aug 17 j 20:57	12° Π 06'28	
morning rise	1352 Feb 24 j 07:36	8° \mathcal{H} 12'46			1354 Sep 01 j 07:08	0° Ω	
direct	1352 Mar 13 j 01:32	2° \mathcal{H} 08'32			1354 Sep 25 j 11:29	0° Π	
greatest brilliancy	1352 Mar 22 j 05:28	3° \mathcal{H} 42'09	-4.8m	desc. node	1354 Oct 03 j 14:14	10° Π 03'37	
desc. node	1352 Apr 17 j 18:56	20° \mathcal{H} 27'56			1354 Oct 19 j 16:35	0° \mathcal{A}	
	1352 Apr 28 j 09:52	0° Υ			1354 Nov 12 j 23:31	0° \mathcal{B}	
morning max el	1352 May 01 j 05:54	2° Υ 42'07	45°58'00		1354 Dec 07 j 10:42	0° \approx	
	1352 May 27 j 17:02	0° \mathcal{B}			1355 Jan 01 j 08:07	0° \mathcal{H}	
	1352 Jun 23 j 14:03	0° Π		asc. node	1355 Jan 24 j 17:24	27° \mathcal{H} 10'59	
	1352 Jul 19 j 09:04	0° Θ			1355 Jan 27 j 05:26	0° Υ	
asc. node	1352 Aug 08 j 22:25	24° Θ 31'54		evening max el	1355 Feb 20 j 19:34	26° Υ 12'27	46°17'02
	1352 Aug 13 j 11:04	0° Ω			1355 Feb 24 j 16:29	0° \mathcal{B}	
	1352 Sep 07 j 00:19	0° Π		greatest brilliancy	1355 Mar 31 j 13:16	25° \mathcal{B} 33'41	-4.8m
	1352 Oct 01 j 04:29	0° Ω		retrograde	1355 Apr 11 j 10:25	27° \mathcal{B} 43'29	
	1352 Oct 25 j 03:16	0° Π		evening set	1355 Apr 27 j 01:02	22° \mathcal{B} 58'21	
morning set	1352 Oct 26 j 00:52	1° Π 07'50		inferior conj	1355 May 02 j 19:16	19° \mathcal{B} 27'41	3°06'57
	1352 Nov 17 j 23:41	0° \mathcal{A}		minimum elong	1355 May 03 j 01:42	19° \mathcal{B} 17'33	3°05'11
desc. node	1352 Nov 28 j 11:56	13° \mathcal{A} 13'48		min. Earth dist.	1355 May 02 j 20:43	19° \mathcal{B} 25'24	0.28822 AU
				morning rise	1355 May 09 j 02:43	15° \mathcal{B} 39'26	
superior conj	1352 Dec 05 j 18:58	22° \mathcal{A} 24'40	-0°17'21	desc. node	1355 May 16 j 06:48	12° \mathcal{B} 29'15	
minimum elong	1352 Dec 05 j 14:21	22° \mathcal{A} 10'09	0°17'07	direct	1355 May 24 j 08:03	11° \mathcal{B} 12'18	
max. Earth dist.	1352 Dec 06 j 18:01	23° \mathcal{A} 37'12	1.71056 AU	greatest brilliancy	1355 Jun 03 j 10:41	13° \mathcal{B} 03'15	-4.7m
	1352 Dec 11 j 19:40	0° \mathcal{B}			1355 Jun 29 j 23:32	0° Π	
	1353 Jan 04 j 16:26	0° \approx		morning max el	1355 Jul 12 j 01:56	10° Π 56'15	45°45'00
evening rise	1353 Jan 16 j 08:23	14° \approx 37'53			1355 Jul 30 j 22:34	0° Θ	
	1353 Jan 28 j 15:14	0° \mathcal{H}			1355 Aug 27 j 00:51	0° Ω	
	1353 Feb 21 j 17:48	0° Υ		asc. node	1355 Sep 06 j 10:26	12° Ω 03'35	
	1353 Mar 18 j 02:26	0° \mathcal{B}			1355 Sep 21 j 13:40	0° Π	
asc. node	1353 Mar 21 j 15:19	4° \mathcal{B} 19'19			1355 Oct 16 j 05:51	0° Ω	
	1353 Apr 11 j 19:39	0° Π			1355 Nov 09 j 10:36	0° Π	

	1355 Dec 03 j 09:58	0°♊	greatest brilliancy	1358 Jun 09 j 06:49	2°♏21'17	-4.7m
desc. node	1355 Dec 26 j 23:39	29°♊35'07	desc. node	1358 Jun 12 j 18:42	3°♏27'05	
	1355 Dec 27 j 07:35	0°♋	retrograde	1358 Jun 19 j 23:08	4°♏24'31	
morning set	1356 Jan 11 j 15:55	19°♋15'51		1358 Jul 05 j 03:31	30°♏	
	1356 Jan 20 j 05:25	0°♌	evening set	1358 Jul 05 j 21:03	29°♏35'49	
	1356 Feb 13 j 04:44	0°♍	inferior conj	1358 Jul 11 j 10:46	26°♏15'06	-6°04'49
			minimum elong	1358 Jul 11 j 00:49	26°♏30'34	6°02'44
superior conj	1356 Feb 21 j 16:52	10°♍36'48	min. Earth dist.	1358 Jul 11 j 12:06	26°♏13'02	0.28931 AU
minimum elong	1356 Feb 21 j 16:57	10°♍37'04	morning rise	1358 Jul 16 j 04:20	23°♏22'07	
max. Earth dist.	1356 Feb 25 j 22:12	15°♍52'30	direct	1358 Aug 02 j 01:17	17°♏58'08	
	1356 Mar 08 j 06:40	0°♎	greatest brilliancy	1358 Aug 12 j 18:50	20°♏02'17	-4.8m
evening rise	1356 Apr 01 j 00:37	29°♎24'22		1358 Aug 30 j 00:58	0°♏	
	1356 Apr 01 j 12:10	0°♏	morning max el	1358 Sep 20 j 15:10	19°♏00'51	46°16'42
asc. node	1356 Apr 18 j 03:17	20°♏28'10		1358 Oct 01 j 09:01	0°♐	
	1356 Apr 25 j 21:48	0°♐	asc. node	1358 Oct 03 j 22:14	2°♐42'36	
	1356 May 20 j 11:55	0°♑		1358 Oct 28 j 07:08	0°♑	
	1356 Jun 14 j 07:19	0°♒		1358 Nov 22 j 13:10	0°♒	
	1356 Jul 09 j 10:14	0°♓		1358 Dec 17 j 02:17	0°♓	
	1356 Aug 04 j 01:13	0°♑		1359 Jan 10 j 08:33	0°♋	
desc. node	1356 Aug 07 j 16:19	4°♑10'53	desc. node	1359 Jan 23 j 11:29	16°♋16'49	
	1356 Aug 30 j 13:49	0°♒		1359 Feb 03 j 12:40	0°♌	
evening max el	1356 Sep 26 j 11:47	28°♒20'12		1359 Feb 27 j 16:56	0°♍	
	1356 Sep 28 j 04:24	0°♊		1359 Mar 23 j 22:31	0°♎	
greatest brilliancy	1356 Nov 05 j 23:34	28°♊49'48	morning set	1359 Mar 27 j 11:27	4°♎22'28	
	1356 Nov 10 j 01:28	0°♋		1359 Apr 17 j 05:55	0°♏	
retrograde	1356 Nov 15 j 17:40	0°♋37'39				
	1356 Nov 21 j 06:47	30°♋	superior conj	1359 May 04 j 02:20	20°♏44'38	-0°29'13
asc. node	1356 Nov 28 j 19:49	27°♊12'24	minimum elong	1359 May 04 j 08:15	21°♏02'51	0°28'56
evening set	1356 Nov 30 j 00:59	26°♊34'48	max. Earth dist.	1359 May 05 j 05:13	22°♏07'18	1.73432 AU
inferior conj	1356 Dec 06 j 06:36	22°♊56'12		1359 May 11 j 15:01	0°♐	
minimum elong	1356 Dec 06 j 02:17	23°♊02'49	asc. node	1359 May 16 j 15:05	6°♐08'47	
min. Earth dist.	1356 Dec 05 j 22:55	23°♊07'58		1359 Jun 05 j 01:13	0°♑	
morning rise	1356 Dec 12 j 03:40	19°♊29'25	evening rise	1359 Jun 09 j 16:14	5°♑40'38	
direct	1356 Dec 26 j 14:31	15°♊20'12		1359 Jun 29 j 12:01	0°♒	
greatest brilliancy	1357 Jan 05 j 10:08	17°♊09'44		1359 Jul 23 j 23:47	0°♓	
	1357 Jan 26 j 07:14	0°♋		1359 Aug 17 j 13:41	0°♑	
morning max el	1357 Feb 14 j 18:53	17°♋49'18	desc. node	1359 Sep 05 j 04:23	22°♑35'43	
	1357 Feb 26 j 14:32	0°♌		1359 Sep 11 j 07:26	0°♒	
desc. node	1357 Mar 20 j 09:19	23°♌52'49		1359 Oct 06 j 07:23	0°♓	
	1357 Mar 25 j 19:08	0°♍		1359 Oct 31 j 18:45	0°♋	
	1357 Apr 20 j 18:25	0°♎		1359 Nov 27 j 09:19	0°♌	
	1357 May 16 j 04:37	0°♏	evening max el	1359 Dec 08 j 20:51	12°♌06'35	47°17'42
	1357 Jun 10 j 06:54	0°♐	asc. node	1359 Dec 27 j 07:38	29°♌32'07	
	1357 Jul 05 j 02:25	0°♑		1359 Dec 27 j 20:51	0°♍	
asc. node	1357 Jul 11 j 12:38	7°♑49'28	greatest brilliancy	1360 Jan 18 j 10:35	13°♍50'44	-4.9m
	1357 Jul 29 j 15:09	0°♒	retrograde	1360 Jan 28 j 21:14	15°♍56'11	
morning set	1357 Aug 13 j 09:07	18°♒11'41	evening set	1360 Feb 15 j 18:25	9°♍42'19	
	1357 Aug 22 j 21:40	0°♓	min. Earth dist.	1360 Feb 18 j 04:29	8°♍12'11	0.27816 AU
	1357 Sep 15 j 23:34	0°♑	inferior conj	1360 Feb 18 j 20:22	7°♍47'17	8°46'25
max. Earth dist.	1357 Sep 16 j 07:24	0°♑24'31	minimum elong	1360 Feb 18 j 19:38	7°♍48'25	8°46'25
		1.71957 AU	morning rise	1360 Feb 21 j 21:04	5°♍54'33	
superior conj	1357 Sep 19 j 12:21	4°♑24'57		1360 Mar 07 j 17:20	30°♍	
minimum elong	1357 Sep 19 j 19:31	4°♑47'22	direct	1360 Mar 10 j 15:45	29°♌49'30	
	1357 Oct 09 j 22:54	0°♒		1360 Mar 13 j 15:19	0°♍	
evening rise	1357 Oct 28 j 20:18	23°♒40'51	greatest brilliancy	1360 Mar 19 j 18:06	1°♍22'25	-4.8m
desc. node	1357 Oct 31 j 02:10	26°♒29'38	desc. node	1360 Apr 16 j 21:00	19°♍27'38	
	1357 Nov 02 j 21:18	0°♊		1360 Apr 28 j 09:18	0°♎	
	1357 Nov 26 j 19:52	0°♋	morning max el	1360 Apr 28 j 21:30	0°♎29'20	45°59'18
	1357 Dec 20 j 19:45	0°♌		1360 May 27 j 08:58	0°♏	
	1358 Jan 13 j 23:08	0°♍		1360 Jun 23 j 03:20	0°♐	
	1358 Feb 07 j 09:56	0°♎		1360 Jul 18 j 21:05	0°♑	
asc. node	1358 Feb 21 j 05:27	16°♎40'44	asc. node	1360 Aug 08 j 00:35	24°♑03'51	
	1358 Mar 04 j 10:17	0°♏		1360 Aug 12 j 22:27	0°♒	
	1358 Mar 30 j 10:58	0°♐		1360 Sep 06 j 11:22	0°♓	
	1358 Apr 27 j 15:02	0°♑		1360 Sep 30 j 15:25	0°♑	
evening max el	1358 May 02 j 08:27	4°♑37'27	morning set	1360 Oct 23 j 13:46	28°♑43'22	
	1358 Jun 03 j 22:16	0°♒		1360 Oct 24 j 14:10	0°♒	

	1360 Nov 17 j 10:36	0°♊	evening set	1363 Apr 24 j 19:29	20°♌45'10	
desc. node	1360 Nov 27 j 13:54	12°♊45'37	inferior conj	1363 Apr 30 j 11:35	17°♌17'25	3°25'35
			minimum elong	1363 Apr 30 j 18:33	17°♌06'26	3°23'41
superior conj	1360 Dec 03 j 04:37	19°♊49'33 -0°13'23	min. Earth dist.	1363 Apr 30 j 13:18	17°♌14'42	0.28803 AU
minimum elong	1360 Dec 03 j 01:03	19°♊38'18 0°13'12	morning rise	1363 May 06 j 17:54	13°♌30'19	
behind sun begin	1360 Dec 02 j 09:12	18°♊48'26	desc. node	1363 May 15 j 08:47	9°♌54'15	
behind sun end	1360 Dec 03 j 16:54	20°♊28'11	direct	1363 May 21 j 23:47	9°♌02'20	
max. Earth dist.	1360 Dec 04 j 01:55	20°♊56'34 1.71053 AU	greatest brilliancy	1363 Jun 01 j 02:16	10°♌52'48	-4.7m
	1360 Dec 11 j 06:37	0°♋		1363 Jun 30 j 03:55	0°♋	
	1361 Jan 04 j 03:24	0°♋	morning max el	1363 Jul 09 j 16:38	8°♋43'15	45°44'42
evening rise	1361 Jan 13 j 18:32	12°♋04'55		1363 Jul 30 j 15:35	0°♋	
	1361 Jan 28 j 02:13	0°♋		1363 Aug 26 j 14:42	0°♋	
	1361 Feb 21 j 04:54	0°♋	asc. node	1363 Sep 05 j 12:29	11°♋30'54	
	1361 Mar 17 j 13:45	0°♋		1363 Sep 21 j 02:09	0°♋	
asc. node	1361 Mar 20 j 17:27	3°♋51'10		1363 Oct 15 j 17:40	0°♋	
	1361 Apr 11 j 07:24	0°♋		1363 Nov 08 j 22:06	0°♋	
	1361 May 06 j 13:26	0°♋		1363 Dec 02 j 21:18	0°♋	
	1361 Jun 01 j 14:54	0°♋	desc. node	1363 Dec 26 j 01:43	29°♋06'24	
	1361 Jun 29 j 06:21	0°♋		1363 Dec 26 j 18:48	0°♋	
desc. node	1361 Jul 10 j 06:34	11°♋04'08	morning set	1364 Jan 09 j 01:34	16°♋40'32	
evening max el	1361 Jul 12 j 19:15	13°♋30'28 45°42'04		1364 Jan 19 j 16:33	0°♋	
	1361 Jul 31 j 18:07	0°♋		1364 Feb 12 j 15:48	0°♋	
greatest brilliancy	1361 Aug 21 j 11:14	11°♋50'06 -4.8m				
retrograde	1361 Aug 30 j 16:20	13°♋22'07	superior conj	1364 Feb 19 j 05:01	8°♋10'35	-1°25'52
evening set	1361 Sep 17 j 03:48	7°♋39'00	minimum elong	1364 Feb 19 j 04:05	8°♋07'41	1°25'52
inferior conj	1361 Sep 20 j 15:10	5°♋32'58 -8°05'57	max. Earth dist.	1364 Feb 23 j 09:56	13°♋25'08	1.72006 AU
minimum elong	1361 Sep 20 j 22:57	5°♋21'03 8°05'00		1364 Mar 07 j 17:41	0°♋	
min. Earth dist.	1361 Sep 21 j 12:06	5°♋00'53 0.27673 AU	evening rise	1364 Mar 29 j 15:01	27°♋06'42	
morning rise	1361 Sep 24 j 17:50	3°♋04'13		1364 Mar 31 j 23:10	0°♋	
	1361 Sep 30 j 17:06	30°♋	asc. node	1364 Apr 17 j 05:16	20°♋00'22	
direct	1361 Oct 11 j 17:05	27°♋34'20		1364 Apr 25 j 08:54	0°♋	
greatest brilliancy	1361 Oct 22 j 19:06	29°♋52'38 -4.9m		1364 May 19 j 23:15	0°♋	
	1361 Oct 23 j 02:26	0°♋		1364 Jun 13 j 19:09	0°♋	
asc. node	1361 Oct 31 j 09:56	4°♋18'55		1364 Jul 08 j 22:53	0°♋	
	1361 Nov 30 j 12:02	0°♋		1364 Aug 03 j 15:20	0°♋	
morning max el	1361 Dec 01 j 10:58	0°♋58'21 46°54'09	desc. node	1364 Aug 06 j 18:29	3°♋35'53	
	1361 Dec 28 j 02:36	0°♋		1364 Aug 30 j 06:48	0°♋	
	1362 Jan 22 j 19:37	0°♋	evening max el	1364 Sep 23 j 23:55	25°♋53'26	46°51'15
	1362 Feb 16 j 20:20	0°♋		1364 Sep 28 j 05:18	0°♋	
desc. node	1362 Feb 19 j 23:32	3°♋47'07	greatest brilliancy	1364 Nov 03 j 13:16	26°♋22'09	-4.9m
	1362 Mar 13 j 14:26	0°♋	retrograde	1364 Nov 13 j 05:43	28°♋08'51	
	1362 Apr 07 j 05:54	0°♋	evening set	1364 Nov 27 j 13:06	24°♋06'11	
	1362 May 01 j 20:22	0°♋	asc. node	1364 Nov 27 j 21:46	23°♋54'36	
	1362 May 26 j 09:54	0°♋	inferior conj	1364 Dec 03 j 18:58	20°♋27'54	1°31'32
morning set	1362 Jun 04 j 05:48	10°♋48'09	minimum elong	1364 Dec 03 j 15:30	20°♋33'11	1°30'26
asc. node	1362 Jun 13 j 02:51	21°♋40'39	min. Earth dist.	1364 Dec 03 j 12:59	20°♋37'01	0.26396 AU
	1362 Jun 19 j 21:39	0°♋	morning rise	1364 Dec 09 j 17:53	16°♋58'45	
max. Earth dist.	1362 Jul 07 j 22:44	22°♋11'35 1.73360 AU	direct	1364 Dec 24 j 02:25	12°♋51'32	
			greatest brilliancy	1365 Jan 03 j 00:46	14°♋43'29	-4.9m
superior conj	1362 Jul 10 j 14:43	25°♋28'39 0°59'06		1365 Jan 26 j 18:56	0°♋	
minimum elong	1362 Jul 10 j 05:59	25°♋01'45 0°58'47	morning max el	1365 Feb 12 j 08:00	15°♋24'02	46°43'22
	1362 Jul 14 j 06:45	0°♋		1365 Feb 26 j 09:52	0°♋	
	1362 Aug 07 j 13:12	0°♋	desc. node	1365 Mar 19 j 11:21	23°♋13'55	
evening rise	1362 Aug 15 j 14:25	9°♋58'21		1365 Mar 25 j 10:20	0°♋	
	1362 Aug 31 j 18:03	0°♋		1365 Apr 20 j 07:46	0°♋	
	1362 Sep 24 j 22:41	0°♋		1365 May 15 j 16:54	0°♋	
desc. node	1362 Oct 02 j 16:20	9°♋35'08		1365 Jun 09 j 18:32	0°♋	
	1362 Oct 19 j 04:10	0°♋		1365 Jul 04 j 13:39	0°♋	
	1362 Nov 12 j 11:35	0°♋	asc. node	1365 Jul 10 j 14:47	7°♋21'56	
	1362 Dec 06 j 23:26	0°♋		1365 Jul 29 j 02:11	0°♋	
	1362 Dec 31 j 22:00	0°♋	morning set	1365 Aug 11 j 01:54	16°♋01'06	
asc. node	1363 Jan 23 j 19:34	26°♋32'04		1365 Aug 22 j 08:38	0°♋	
	1363 Jan 26 j 21:45	0°♋	max. Earth dist.	1365 Sep 13 j 23:28	28°♋10'19	1.72005 AU
evening max el	1363 Feb 18 j 10:10	23°♋55'08 46°19'30		1365 Sep 15 j 10:35	0°♋	
	1363 Feb 24 j 16:22	0°♋				
greatest brilliancy	1363 Mar 29 j 07:00	23°♋24'33 -4.8m	superior conj	1365 Sep 17 j 03:32	2°♋07'57	1°19'26
retrograde	1363 Apr 09 j 02:24	25°♋33'04	minimum elong	1365 Sep 17 j 10:05	2°♋28'26	1°19'19

	1365 Oct 09 j 09:59	0°♌	greatest brilliancy	1368 Mar 17 j 06:30	29°≈01'54	-4.8m
evening rise	1365 Oct 26 j 08:19	21°♌13'04		1368 Mar 19 j 22:07	0°♋	
desc. node	1365 Oct 30 j 04:09	26°♌00'50	desc. node	1368 Apr 15 j 23:01	18°♋28'03	
	1365 Nov 02 j 08:30	0°♊	morning max el	1368 Apr 26 j 12:41	28°♋14'46	46°00'21
	1365 Nov 26 j 07:12	0°♊		1368 Apr 28 j 08:02	0°♊	
	1365 Dec 20 j 07:17	0°≈		1368 May 27 j 01:00	0°♊	
	1366 Jan 13 j 10:59	0°♋		1368 Jun 22 j 16:56	0°♊	
	1366 Feb 06 j 22:17	0°♊		1368 Jul 18 j 09:30	0°♋	
asc. node	1366 Feb 20 j 07:31	16°♊08'37	asc. node	1368 Aug 07 j 02:40	23°♋34'20	
	1366 Mar 03 j 23:35	0°♋		1368 Aug 12 j 10:13	0°♋	
	1366 Mar 30 j 02:19	0°♊		1368 Sep 05 j 22:48	0°♋	
	1366 Apr 27 j 12:06	0°♋		1368 Sep 30 j 02:41	0°♋	
evening max el	1366 Apr 30 j 00:20	2°♋26'15 45°25'26	morning set	1368 Oct 21 j 02:37	26°♋17'50	
	1366 Jun 06 j 11:07	0°♋		1368 Oct 24 j 01:23	0°♌	
greatest brilliancy	1366 Jun 06 j 21:05	0°♋09'20 -4.7m		1368 Nov 16 j 21:50	0°♊	
desc. node	1366 Jun 11 j 20:46	1°♋36'44	desc. node	1368 Nov 26 j 15:59	12°♊16'49	
retrograde	1366 Jun 17 j 15:36	2°♋14'20				
	1366 Jun 28 j 07:13	30°♋♋	superior conj	1368 Nov 30 j 14:23	17°♊13'52 -0°09'24	
evening set	1366 Jul 03 j 10:27	27°♋28'43	minimum elong	1368 Nov 30 j 11:52	17°♊05'57 0°09'17	
inferior conj	1366 Jul 09 j 02:44	24°♋04'16 -5°50'13	behind sun begin	1368 Nov 29 j 13:50	15°♊56'34	
minimum elong	1366 Jul 08 j 16:52	24°♋19'37 5°48'05	behind sun end	1368 Dec 01 j 09:55	18°♊15'20	
min. Earth dist.	1366 Jul 09 j 03:21	24°♋03'19 0.28945 AU	max. Earth dist.	1368 Dec 01 j 07:25	18°♊07'27 1.71051 AU	
morning rise	1366 Jul 13 j 23:05	21°♋07'27		1368 Dec 10 j 17:52	0°♊	
direct	1366 Jul 30 j 17:45	15°♋47'05		1369 Jan 03 j 14:40	0°≈	
greatest brilliancy	1366 Aug 10 j 10:16	17°♋50'42 -4.8m	evening rise	1369 Jan 11 j 04:43	9°≈31'06	
	1366 Aug 30 j 13:46	0°♋		1369 Jan 27 j 13:29	0°♋	
morning max el	1366 Sep 18 j 07:21	16°♋47'47 46°15'11		1369 Feb 20 j 16:14	0°♊	
	1366 Oct 01 j 03:46	0°♋		1369 Mar 17 j 01:18	0°♋	
asc. node	1366 Oct 03 j 00:14	1°♋59'01	asc. node	1369 Mar 19 j 19:26	3°♋21'52	
	1366 Oct 27 j 22:01	0°♋		1369 Apr 10 j 19:26	0°♊	
	1366 Nov 22 j 02:26	0°♌		1369 May 06 j 02:22	0°♋	
	1366 Dec 16 j 14:43	0°♊		1369 Jun 01 j 05:42	0°♋	
	1367 Jan 09 j 20:28	0°♊		1369 Jun 29 j 01:38	0°♋	
desc. node	1367 Jan 22 j 13:42	15°♊47'17	desc. node	1369 Jul 09 j 08:43	10°♋14'20	
	1367 Feb 03 j 00:14	0°≈	evening max el	1369 Jul 10 j 09:12	11°♋13'02 45°40'05	
	1367 Feb 27 j 04:15	0°♋		1369 Aug 01 j 10:35	0°♋	
	1367 Mar 23 j 09:38	0°♊	greatest brilliancy	1369 Aug 19 j 00:24	9°♋30'31 -4.8m	
morning set	1367 Mar 25 j 02:32	2°♊06'27	retrograde	1369 Aug 28 j 05:04	11°♋02'09	
	1367 Apr 16 j 16:55	0°♋	evening set	1369 Sep 14 j 19:49	5°♋15'31	
			inferior conj	1369 Sep 18 j 05:01	3°♋12'29 -8°13'51	
superior conj	1367 May 01 j 19:18	18°♋35'30 -0°32'17	minimum elong	1369 Sep 18 j 12:09	3°♋01'31 8°13'04	
minimum elong	1367 May 02 j 01:47	18°♋55'26 0°31'59	min. Earth dist.	1369 Sep 19 j 01:52	2°♋40'25 0.27739 AU	
max. Earth dist.	1367 May 03 j 02:28	20°♋11'23 1.73409 AU	morning rise	1369 Sep 22 j 04:12	0°♋48'23	
	1367 May 11 j 01:58	0°♊		1369 Sep 23 j 13:58	30°♋♋	
asc. node	1367 May 15 j 17:07	5°♊41'25	direct	1369 Oct 09 j 07:15	25°♋12'54	
	1367 Jun 04 j 12:12	0°♋	greatest brilliancy	1369 Oct 20 j 09:45	27°♋30'49 -4.9m	
evening rise	1367 Jun 07 j 10:56	3°♋37'01		1369 Oct 25 j 16:19	0°♋	
	1367 Jun 28 j 23:10	0°♋	asc. node	1369 Oct 30 j 12:00	2°♋53'09	
	1367 Jul 23 j 11:14	0°♋	morning max el	1369 Nov 28 j 23:58	28°♋31'20 46°53'26	
	1367 Aug 17 j 01:36	0°♋		1369 Nov 30 j 10:34	0°♌	
desc. node	1367 Sep 04 j 06:25	22°♋04'17		1369 Dec 27 j 19:05	0°♊	
	1367 Sep 10 j 20:03	0°♌		1370 Jan 22 j 09:47	0°♊	
	1367 Oct 05 j 21:04	0°♊		1370 Feb 16 j 09:14	0°≈	
	1367 Oct 31 j 10:15	0°♊	desc. node	1370 Feb 19 j 01:29	3°≈14'19	
	1367 Nov 27 j 04:47	0°≈		1370 Mar 13 j 02:32	0°♋	
evening max el	1367 Dec 06 j 12:45	9°≈47'22 47°18'39		1370 Apr 06 j 17:28	0°♊	
asc. node	1367 Dec 26 j 09:50	28°≈24'13		1370 May 01 j 07:34	0°♋	
	1367 Dec 28 j 08:55	0°♋		1370 May 25 j 20:52	0°♊	
greatest brilliancy	1368 Jan 16 j 01:06	11°♋29'09 -4.9m	morning set	1370 Jun 02 j 00:11	8°♊44'09	
retrograde	1368 Jan 26 j 12:47	13°♋35'12	asc. node	1370 Jun 12 j 05:02	21°♊14'01	
evening set	1368 Feb 13 j 07:51	7°♋23'37		1370 Jun 19 j 08:31	0°♋	
min. Earth dist.	1368 Feb 15 j 17:41	5°♋53'53 0.27758 AU	max. Earth dist.	1370 Jul 05 j 17:47	20°♋09'01 1.73394 AU	
inferior conj	1368 Feb 16 j 10:53	5°♋26'53 8°45'42				
minimum elong	1368 Feb 16 j 09:20	5°♋29'19 8°45'41	superior conj	1370 Jul 08 j 09:21	23°♋24'46 0°56'49	
morning rise	1368 Feb 19 j 11:04	3°♋35'06	minimum elong	1370 Jul 08 j 00:40	22°♋58'03 0°56'30	
	1368 Feb 26 j 04:10	30°♋≈		1370 Jul 13 j 17:36	0°♋	
direct	1368 Mar 08 j 06:18	27°≈30'20		1370 Aug 07 j 00:10	0°♋	

evening rise	1370 Aug 13 j 07:50	7°  49'28		1373 Mar 25 j 01:12	0° 	
	1370 Aug 31 j 05:13	0° 		1373 Apr 19 j 20:49	0° 	
	1370 Sep 24 j 10:08	0° 		1373 May 15 j 04:57	0° 	
desc. node	1370 Oct 01 j 18:17	9°  05'25		1373 Jun 09 j 05:56	0° 	
	1370 Oct 18 j 15:59	0° 		1373 Jul 04 j 00:39	0° 	
	1370 Nov 11 j 23:51	0° 		asc. node	1373 Jul 09 j 16:52	6°  54'55
	1370 Dec 06 j 12:23	0° 			1373 Jul 28 j 12:59	0° 
	1370 Dec 31 j 12:09	0° 		morning set	1373 Aug 08 j 19:12	13°  52'59
asc. node	1371 Jan 22 j 21:37	25°  52'06			1373 Aug 21 j 19:23	0° 
	1371 Jan 26 j 14:29	0° 		max. Earth dist.	1373 Sep 11 j 15:41	25°  57'25 1.72059 AU
evening max el	1371 Feb 16 j 00:15	21°  36'13 46°22'04				
	1371 Feb 24 j 17:31	0° 		superior conj	1373 Sep 14 j 19:05	29°  52'49 1°20'34
greatest brilliancy	1371 Mar 27 j 00:41	21°  15'14 -4.8m		minimum elong	1373 Sep 15 j 00:58	0°  11'12 1°20'29
retrograde	1371 Apr 06 j 18:37	23°  23'01			1373 Sep 14 j 21:23	0° 
evening set	1371 Apr 22 j 14:08	18°  31'55			1373 Oct 08 j 20:55	0° 
inferior conj	1371 Apr 28 j 04:02	15°  07'26 3°43'47		evening rise	1373 Oct 23 j 20:21	18°  45'52
minimum elong	1371 Apr 28 j 11:29	14°  55'40 3°41'48		desc. node	1373 Oct 29 j 06:17	25°  32'50
min. Earth dist.	1371 Apr 28 j 06:04	15°  04'13 0.28785 AU			1373 Nov 01 j 19:35	0° 
morning rise	1371 May 04 j 09:04	11°  21'51			1373 Nov 25 j 18:29	0° 
desc. node	1371 May 14 j 10:50	7°  24'16			1373 Dec 19 j 18:46	0° 
direct	1371 May 19 j 15:11	6°  52'34			1374 Jan 12 j 22:45	0° 
greatest brilliancy	1371 May 29 j 18:13	8°  43'05 -4.7m			1374 Feb 06 j 10:32	0° 
	1371 Jun 30 j 06:32	0° 		asc. node	1374 Feb 19 j 09:30	15°  36'38
morning max el	1371 Jul 07 j 07:47	6°  31'30 45°44'25			1374 Mar 03 j 12:47	0° 
	1371 Jul 30 j 08:16	0° 			1374 Mar 29 j 17:38	0° 
	1371 Aug 26 j 04:28	0° 			1374 Apr 27 j 09:35	0° 
asc. node	1371 Sep 04 j 14:28	10°  57'57		evening max el	1374 Apr 27 j 17:08	0°  18'12 45°26'25
	1371 Sep 20 j 14:41	0° 		greatest brilliancy	1374 Jun 04 j 12:01	27°  59'36 -4.7m
	1371 Oct 15 j 05:36	0° 		desc. node	1374 Jun 10 j 22:57	29°  43'56
	1371 Nov 08 j 09:43	0° 			1374 Jun 13 j 02:46	0° 
	1371 Dec 02 j 08:43	0° 		retrograde	1374 Jun 15 j 08:14	0°  05'42
desc. node	1371 Dec 25 j 03:52	28°  37'48			1374 Jun 17 j 13:03	30°  R 
	1371 Dec 26 j 06:03	0° 		evening set	1374 Jul 01 j 00:19	25°  23'21
morning set	1372 Jan 06 j 11:02	14°  30'42'7		inferior conj	1374 Jul 06 j 18:57	21°  55'13 -5°35'13
	1372 Jan 19 j 03:41	0° 		minimum elong	1374 Jul 06 j 09:13	22°  10'22 5°33'03
	1372 Feb 12 j 02:51	0° 		min. Earth dist.	1374 Jul 06 j 18:50	21°  55'25 0.28953 AU
				morning rise	1374 Jul 11 j 18:01	18°  54'34
superior conj	1372 Feb 16 j 17:04	5°  44'04 -1°25'38		direct	1374 Jul 28 j 10:40	13°  38'06
minimum elong	1372 Feb 16 j 15:08	5°  38'04 1°25'39		greatest brilliancy	1374 Aug 08 j 01:20	15°  40'20 -4.8m
max. Earth dist.	1372 Feb 20 j 19:19	10°  50'30 1.71949 AU			1374 Aug 30 j 22:35	0° 
	1372 Mar 07 j 04:40	0° 		morning max el	1374 Sep 15 j 23:25	14°  53'02 46°13'37
evening rise	1372 Mar 27 j 05:29	24°  49'16			1374 Sep 30 j 21:35	0° 
	1372 Mar 31 j 10:09	0° 		asc. node	1374 Oct 02 j 02:20	1°  17'28
asc. node	1372 Apr 16 j 07:21	19°  33'01			1374 Oct 27 j 12:20	0° 
	1372 Apr 24 j 19:57	0° 			1374 Nov 21 j 15:20	0° 
	1372 May 19 j 10:31	0° 			1374 Dec 16 j 02:53	0° 
	1372 Jun 13 j 06:53	0° 			1375 Jan 09 j 08:10	0° 
	1372 Jul 08 j 11:30	0° 		desc. node	1375 Jan 21 j 15:40	15°  31'35
	1372 Aug 03 j 05:30	0° 			1375 Feb 02 j 11:38	0° 
desc. node	1372 Aug 05 j 20:26	3°  00'14			1375 Feb 26 j 15:22	0° 
	1372 Aug 30 j 00:08	0° 		morning set	1375 Mar 22 j 17:15	29°  49'57
evening max el	1372 Sep 21 j 12:37	23°  28'03 46°48'53			1375 Mar 22 j 20:30	0° 
	1372 Sep 28 j 07:41	0° 			1375 Apr 16 j 03:37	0° 
greatest brilliancy	1372 Nov 01 j 02:16	23°  52'51 -4.9m				
retrograde	1372 Nov 10 j 17:58	25°  38'59		superior conj	1375 Apr 29 j 12:07	16°  26'42 -0°35'18
evening set	1372 Nov 25 j 01:08	21°  36'05		minimum elong	1375 Apr 29 j 19:08	16°  48'18 0°35'00
asc. node	1372 Nov 26 j 23:58	20°  31'39		max. Earth dist.	1375 May 01 j 00:49	18°  19'38 1.73379 AU
inferior conj	1372 Dec 01 j 06:58	17°  58'21 1°06'58			1375 May 10 j 12:36	0° 
minimum elong	1372 Dec 01 j 04:25	18°  02'14 1°06'09		asc. node	1375 May 14 j 19:15	5°  15'20
min. Earth dist.	1372 Dec 01 j 02:32	18°  05'07 0.26394 AU			1375 Jun 03 j 22:53	0° 
morning rise	1372 Dec 07 j 07:38	14°  27'20		evening rise	1375 Jun 05 j 05:42	1°  34'34
direct	1372 Dec 21 j 14:31	10°  21'41			1375 Jun 28 j 10:01	0° 
greatest brilliancy	1372 Dec 31 j 14:40	12°  15'42 -4.9m			1375 Jul 22 j 22:20	0° 
	1373 Jan 27 j 03:43	0° 			1375 Aug 16 j 13:09	0° 
morning max el	1373 Feb 09 j 21:53	13°  30'43 46°44'44		desc. node	1375 Sep 03 j 08:27	21°  34'03
	1373 Feb 26 j 04:37	0° 			1375 Sep 10 j 08:18	0° 
desc. node	1373 Mar 18 j 13:23	22°  35'48			1375 Oct 05 j 10:25	0° 

	1375 Oct 31 j 01:33	0° Z		desc. node	1378 Feb 18 j 03:30	2° \approx 43'00	
	1375 Nov 27 j 00:28	0° \approx			1378 Mar 12 j 14:17	0° H	
evening max el	1375 Dec 04 j 04:17	7° \approx 27'52	47°19'05		1378 Apr 06 j 04:45	0° Y	
asc. node	1375 Dec 25 j 11:50	27° \approx 14'20			1378 Apr 30 j 18:31	0° B	
	1375 Dec 29 j 00:52	0° H			1378 May 25 j 07:35	0° II	
greatest brilliancy	1376 Jan 13 j 16:00	9° H 07'46	-4.9m	morning set	1378 May 30 j 18:11	6° II 39'42	
retrograde	1376 Jan 24 j 03:41	11° H 13'21		asc. node	1378 Jun 11 j 07:03	20° II 47'43	
evening set	1376 Feb 10 j 20:31	5° H 05'10			1378 Jun 18 j 19:05	0° G	
min. Earth dist.	1376 Feb 13 j 06:58	3° H 34'24	0.27700 AU	max. Earth dist.	1378 Jul 03 j 13:55	18° G 10'48	1.73423 AU
inferior conj	1376 Feb 14 j 01:06	3° H 05'56	8°44'02				
minimum elong	1376 Feb 13 j 22:41	3° H 09'43	8°43'58	superior conj	1378 Jul 06 j 03:44	21° G 21'08	0°54'27
morning rise	1376 Feb 17 j 01:07	1° H 14'20		minimum elong	1378 Jul 05 j 19:10	20° G 54'43	0°54'08
	1376 Feb 19 j 03:42	30° R \approx			1378 Jul 13 j 04:09	0° Ω	
direct	1376 Mar 05 j 20:19	25° \approx 10'41			1378 Aug 06 j 10:49	0° M	
greatest brilliancy	1376 Mar 14 j 19:04	26° \approx 41'05	-4.8m	evening rise	1378 Aug 11 j 01:21	5° M 42'01	
	1376 Mar 22 j 10:29	0° H			1378 Aug 30 j 16:05	0° L	
desc. node	1376 Apr 15 j 01:08	17° H 30'19			1378 Sep 23 j 21:18	0° M	
morning max el	1376 Apr 24 j 02:44	25° H 57'47	46°01'36	desc. node	1378 Sep 30 j 20:25	8° M 37'13	
	1376 Apr 28 j 05:41	0° Y			1378 Oct 18 j 03:31	0° J	
	1376 May 26 j 16:28	0° B			1378 Nov 11 j 11:50	0° Z	
	1376 Jun 22 j 06:03	0° II			1378 Dec 06 j 01:03	0° \approx	
	1376 Jul 17 j 21:28	0° G			1378 Dec 31 j 02:03	0° H	
asc. node	1376 Aug 06 j 04:35	23° G 05'34		asc. node	1379 Jan 21 j 23:36	25° H 12'37	
	1376 Aug 11 j 21:34	0° Ω			1379 Jan 26 j 07:08	0° Y	
	1376 Sep 05 j 09:49	0° M		evening max el	1379 Feb 13 j 14:15	19° Y 17'56	46°24'31
	1376 Sep 29 j 13:32	0° L			1379 Feb 24 j 19:40	0° B	
morning set	1376 Oct 18 j 16:02	23° L 55'27		greatest brilliancy	1379 Mar 24 j 17:37	19° B 05'24	-4.8m
	1376 Oct 23 j 12:10	0° M		retrograde	1379 Apr 04 j 10:58	21° B 13'13	
	1376 Nov 16 j 08:38	0° J		evening set	1379 Apr 20 j 08:40	16° B 18'28	
desc. node	1376 Nov 25 j 18:07	11° J 49'30		inferior conj	1379 Apr 25 j 20:19	12° B 57'29	4°01'44
				minimum elong	1379 Apr 26 j 04:14	12° B 45'00	3°59'40
superior conj	1376 Nov 28 j 00:43	14° J 41'18	-0°05'28	min. Earth dist.	1379 Apr 25 j 22:33	12° B 53'57	0.28771 AU
minimum elong	1376 Nov 27 j 23:15	14° J 36'43	0°05'24	morning rise	1379 May 01 j 23:57	9° B 13'51	
behind sun begin	1376 Nov 26 j 22:07	13° J 17'36		desc. node	1379 May 13 j 12:58	4° B 59'04	
behind sun end	1376 Nov 29 j 00:24	15° J 55'50		direct	1379 May 17 j 06:30	4° B 42'36	
max. Earth dist.	1376 Nov 28 j 11:46	15° J 16'05	1.71055 AU	greatest brilliancy	1379 May 27 j 10:08	6° B 33'33	-4.7m
	1376 Dec 10 j 04:43	0° Z			1379 Jun 30 j 07:35	0° II	
	1377 Jan 03 j 01:34	0° \approx		morning max el	1379 Jul 04 j 23:48	4° II 22'12	45°44'15
evening rise	1377 Jan 08 j 14:58	6° \approx 58'30			1379 Jul 30 j 00:27	0° G	
	1377 Jan 27 j 00:27	0° H			1379 Aug 25 j 17:54	0° Ω	
	1377 Feb 20 j 03:19	0° Y		asc. node	1379 Sep 03 j 16:37	10° Ω 26'18	
	1377 Mar 16 j 12:38	0° B			1379 Sep 20 j 02:54	0° M	
asc. node	1377 Mar 18 j 21:31	2° B 53'36			1379 Oct 14 j 17:14	0° L	
	1377 Apr 10 j 07:13	0° II			1379 Nov 07 j 21:03	0° M	
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	1377 May 31 j 20:18	0° Ω		desc. node	1379 Dec 24 j 05:49	28° J 09'18	
	1377 Jun 28 j 21:01	0° M			1379 Dec 25 j 17:04	0° Z	
evening max el	1377 Jul 07 j 22:28	8° M 55'18	45°38'20	morning set	1380 Jan 03 j 20:47	11° Z 29'54	
desc. node	1377 Jul 08 j 10:40	9° M 24'22			1380 Jan 18 j 14:35	0° \approx	
	1377 Aug 02 j 07:48	0° L			1380 Feb 11 j 13:40	0° H	
greatest brilliancy	1377 Aug 16 j 13:50	7° L 12'56	-4.8m				
retrograde	1377 Aug 25 j 17:56	8° L 44'26		superior conj	1380 Feb 14 j 05:14	3° H 18'34	-1°25'16
evening set	1377 Sep 12 j 11:45	2° L 54'21		minimum elong	1380 Feb 14 j 02:19	3° H 09'28	1°25'15
inferior conj	1377 Sep 15 j 19:06	0° L 54'07	-8°20'46	max. Earth dist.	1380 Feb 18 j 04:27	8° H 15'40	1.71895 AU
minimum elong	1377 Sep 16 j 01:32	0° L 44'13	8°20'09		1380 Mar 06 j 15:26	0° Y	
min. Earth dist.	1377 Sep 16 j 16:03	0° L 21'54	0.27803 AU	evening rise	1380 Mar 24 j 20:02	22° Y 32'45	
	1377 Sep 17 j 06:19	30° R M			1380 Mar 30 j 20:55	0° B	
morning rise	1377 Sep 19 j 14:59	28° M 34'37		asc. node	1380 Apr 15 j 09:29	19° B 06'20	
direct	1377 Oct 06 j 21:24	22° M 53'20			1380 Apr 24 j 06:50	0° II	
greatest brilliancy	1377 Oct 18 j 01:08	25° M 11'48	-4.9m		1380 May 18 j 21:41	0° G	
	1377 Oct 27 j 06:16	0° L			1380 Jun 12 j 18:34	0° Ω	
asc. node	1377 Oct 29 j 14:06	1° L 31'49			1380 Jul 08 j 00:06	0° M	
morning max el	1377 Nov 26 j 13:15	26° L 06'33	46°52'50		1380 Aug 02 j 19:44	0° L	
	1377 Nov 30 j 07:42	0° M		desc. node	1380 Aug 04 j 22:30	2° L 24'56	
	1377 Dec 27 j 10:47	0° J			1380 Aug 29 j 17:42	0° M	
	1378 Jan 21 j 23:21	0° Z		evening max el	1380 Sep 19 j 02:14	21° M 05'44	46°46'38
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


































































































































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retrograde	1380 Nov 08 j 06:37	23° ♁ 09'46		max. Earth dist.	1383 Apr 28 j 22:53	16° ♁ 26'28	1.73344 AU
evening set	1380 Nov 22 j 13:30	19° ♁ 06'24			1383 May 09 j 23:26	0° ♁	
asc. node	1380 Nov 26 j 01:59	17° ♁ 07'08		asc. node	1383 May 13 j 21:16	4° ♁ 48'18	
inferior conj	1380 Nov 28 j 19:00	15° ♁ 29'16	0°42'20	evening rise	1383 Jun 03 j 00:24	29° ♁ 31'20	
minimum elong	1380 Nov 28 j 17:22	15° ♁ 31'44	0°41'48		1383 Jun 03 j 09:45	0° ♁	
min. Earth dist.	1380 Nov 28 j 15:50	15° ♁ 34'04	0.26395 AU		1383 Jun 27 j 21:02	0° ♁	
morning rise	1380 Dec 04 j 21:13	11° ♁ 56'38			1383 Jul 22 j 09:42	0° ♁	
direct	1380 Dec 19 j 03:12	7° ♁ 52'24			1383 Aug 16 j 01:02	0° ♁	
greatest brilliancy	1380 Dec 29 j 04:11	9° ♁ 47'45	-4.9m	desc. node	1383 Sep 02 j 10:33	21° ♁ 02'58	
	1381 Jan 27 j 09:55	0° ♁			1383 Sep 09 j 20:57	0° ♁	
morning max el	1381 Feb 07 j 12:26	10° ♁ 39'19	46°46'02		1383 Oct 05 j 00:15	0° ♁	
	1381 Feb 25 j 22:47	0° ♁			1383 Oct 30 j 17:26	0° ♁	
desc. node	1381 Mar 17 j 15:30	21° ♁ 58'30			1383 Nov 26 j 21:07	0° ♁	
	1381 Mar 24 j 15:47	0° ♁		evening max el	1383 Dec 01 j 18:58	5° ♁ 05'13	47°19'34
	1381 Apr 19 j 09:42	0° ♁		asc. node	1383 Dec 24 j 13:49	26° ♁ 01'36	
	1381 May 14 j 16:52	0° ♁			1383 Dec 29 j 22:49	0° ♁	
	1381 Jun 08 j 17:16	0° ♁		greatest brilliancy	1384 Jan 11 j 07:20	6° ♁ 45'56	-4.9m
	1381 Jul 03 j 11:39	0° ♁		retrograde	1384 Jan 21 j 18:01	8° ♁ 50'25	
asc. node	1381 Jul 08 j 18:49	6° ♁ 27'28		evening set	1384 Feb 08 j 08:48	2° ♁ 46'18	
	1381 Jul 27 j 23:49	0° ♁		min. Earth dist.	1384 Feb 10 j 20:35	1° ♁ 13'27	0.27640 AU
morning set	1381 Aug 06 j 12:18	11° ♁ 44'11		inferior conj	1384 Feb 11 j 15:16	0° ♁ 44'04	8°41'36
	1381 Aug 21 j 06:11	0° ♁		minimum elong	1384 Feb 11 j 12:01	0° ♁ 49'11	8°41'26
max. Earth dist.	1381 Sep 09 j 05:26	23° ♁ 36'48	1.72108 AU		1384 Feb 12 j 19:23	30° ♁	
				morning rise	1384 Feb 14 j 15:31	28° ♁ 52'01	
superior conj	1381 Sep 12 j 10:32	27° ♁ 37'24	1°21'34	direct	1384 Mar 03 j 09:47	22° ♁ 49'58	
minimum elong	1381 Sep 12 j 15:44	27° ♁ 53'37	1°21'30	greatest brilliancy	1384 Mar 12 j 08:13	24° ♁ 19'48	-4.8m
	1381 Sep 14 j 08:13	0° ♁			1384 Mar 24 j 01:15	0° ♁	
	1381 Oct 08 j 07:51	0° ♁		desc. node	1384 Apr 14 j 03:12	16° ♁ 32'57	
evening rise	1381 Oct 21 j 08:21	16° ♁ 18'30		morning max el	1384 Apr 21 j 16:07	23° ♁ 38'03	46°02'55
desc. node	1381 Oct 28 j 08:21	25° ♁ 04'38			1384 Apr 28 j 02:53	0° ♁	
	1381 Nov 01 j 06:41	0° ♁			1384 May 26 j 08:00	0° ♁	
	1381 Nov 25 j 05:46	0° ♁			1384 Jun 21 j 19:22	0° ♁	
	1381 Dec 19 j 06:18	0° ♁			1384 Jul 17 j 09:40	0° ♁	
	1382 Jan 12 j 10:35	0° ♁		asc. node	1384 Aug 05 j 06:48	22° ♁ 36'54	
	1382 Feb 05 j 22:52	0° ♁			1384 Aug 11 j 09:10	0° ♁	
asc. node	1382 Feb 18 j 11:38	15° ♁ 04'51			1384 Sep 04 j 21:07	0° ♁	
	1382 Mar 03 j 02:07	0° ♁			1384 Sep 29 j 00:43	0° ♁	
	1382 Mar 29 j 09:13	0° ♁		morning set	1384 Oct 16 j 05:14	21° ♁ 31'06	
evening max el	1382 Apr 25 j 09:53	28° ♁ 09'52	45°27'21		1384 Oct 22 j 23:22	0° ♁	
	1382 Apr 27 j 07:57	0° ♁			1384 Nov 15 j 19:51	0° ♁	
greatest brilliancy	1382 Jun 02 j 03:24	25° ♁ 50'07	-4.7m	desc. node	1384 Nov 24 j 20:05	11° ♁ 20'23	
desc. node	1382 Jun 10 j 00:51	27° ♁ 46'27					
retrograde	1382 Jun 13 j 00:21	27° ♁ 56'32		superior conj	1384 Nov 25 j 10:43	12° ♁ 06'26	-0°01'29
evening set	1382 Jun 28 j 14:17	23° ♁ 17'25		minimum elong	1384 Nov 25 j 10:20	12° ♁ 05'14	0°01'27
inferior conj	1382 Jul 04 j 11:08	19° ♁ 45'46	-5°19'49	behind sun begin	1384 Nov 24 j 08:06	10° ♁ 42'41	
minimum elong	1382 Jul 04 j 01:34	20° ♁ 00'40	5°17'36	behind sun end	1384 Nov 26 j 12:34	13° ♁ 27'48	
min. Earth dist.	1382 Jul 04 j 10:32	19° ♁ 46'42	0.28962 AU	max. Earth dist.	1384 Nov 25 j 13:58	12° ♁ 16'42	1.71061 AU
morning rise	1382 Jul 09 j 12:47	16° ♁ 41'08			1384 Dec 09 j 15:58	0° ♁	
direct	1382 Jul 26 j 03:27	11° ♁ 28'41			1385 Jan 02 j 12:49	0° ♁	
greatest brilliancy	1382 Aug 05 j 16:28	13° ♁ 29'21	-4.8m	evening rise	1385 Jan 06 j 00:51	4° ♁ 23'36	
	1382 Aug 31 j 05:14	0° ♁			1385 Jan 26 j 11:44	0° ♁	
morning max el	1382 Sep 13 j 14:46	12° ♁ 21'54	46°12'00		1385 Feb 19 j 14:44	0° ♁	
	1382 Sep 30 j 15:16	0° ♁			1385 Mar 16 j 00:19	0° ♁	
asc. node	1382 Oct 01 j 04:26	0° ♁ 35'42		asc. node	1385 Mar 17 j 23:36	2° ♁ 24'14	
	1382 Oct 27 j 02:44	0° ♁			1385 Apr 09 j 19:26	0° ♁	
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	1382 Dec 15 j 15:07	0° ♁			1385 May 31 j 11:29	0° ♁	
	1383 Jan 08 j 19:58	0° ♁			1385 Jun 28 j 17:24	0° ♁	
desc. node	1383 Jan 20 j 17:42	14° ♁ 47'46		evening max el	1385 Jul 05 j 11:33	6° ♁ 36'17	45°36'44
	1383 Feb 01 j 23:07	0° ♁		desc. node	1385 Jul 07 j 12:46	8° ♁ 32'54	
	1383 Feb 26 j 02:37	0° ♁			1385 Aug 03 j 13:38	0° ♁	
morning set	1383 Mar 20 j 07:51	27° ♁ 32'26		greatest brilliancy	1385 Aug 14 j 02:34	4° ♁ 53'53	-4.8m
	1383 Mar 22 j 07:33	0° ♁		retrograde	1385 Aug 23 j 07:09	6° ♁ 26'13	
	1383 Apr 15 j 14:30	0° ♁		evening set	1385 Sep 10 j 03:24	0° ♁ 32'41	
					1385 Sep 11 j 01:21	30° ♁	
superior conj	1383 Apr 27 j 04:53	14° ♁ 17'12	-0°38'18	inferior conj	1385 Sep 13 j 09:12	28° ♁ 34'53	-8°26'46

minimum elong	1385 Sep 13 j 14:53	28° \mathbb{M} 26'09	8°26'17	evening rise	1388 Mar 22 j 10:02	20° Υ 13'25	
min. Earth dist.	1385 Sep 14 j 06:00	28° \mathbb{M} 02'56	0.27872 AU		1388 Mar 30 j 08:02	0° \mathcal{B}	
morning rise	1385 Sep 17 j 02:03	26° \mathbb{M} 19'55		asc. node	1388 Apr 14 j 11:25	18° \mathcal{B} 38'02	
direct	1385 Oct 04 j 11:46	20° \mathbb{M} 32'47			1388 Apr 23 j 18:02	0° \mathbb{I}	
greatest brilliancy	1385 Oct 15 j 16:41	22° \mathbb{M} 52'10	-4.9m		1388 May 18 j 09:11	0° \mathcal{E}	
	1385 Oct 28 j 09:29	0° \mathcal{E}			1388 Jun 12 j 06:36	0° \mathcal{Q}	
asc. node	1385 Oct 28 j 16:08	0° \mathcal{E} 11'45			1388 Jul 07 j 13:05	0° \mathbb{M}	
morning max el	1385 Nov 24 j 03:22	23° \mathcal{E} 42'34	46°52'04		1388 Aug 02 j 10:24	0° \mathcal{E}	
	1385 Nov 30 j 04:40	0° \mathbb{M}		desc. node	1388 Aug 04 j 00:39	1° \mathcal{E} 48'47	
	1385 Dec 27 j 02:48	0° \mathcal{A}			1388 Aug 29 j 11:56	0° \mathbb{M}	
	1386 Jan 21 j 13:19	0° \mathcal{B}		evening max el	1388 Sep 16 j 16:46	18° \mathbb{M} 45'15	46°44'21
	1386 Feb 15 j 10:31	0° \approx			1388 Sep 28 j 17:09	0° \mathcal{A}	
desc. node	1386 Feb 17 j 05:42	2° \approx 10'59		greatest brilliancy	1388 Oct 27 j 03:20	18° \mathcal{A} 54'57	-4.9m
	1386 Mar 12 j 02:23	0° \mathcal{H}		retrograde	1388 Nov 05 j 19:19	20° \mathcal{A} 40'21	
	1386 Apr 05 j 16:22	0° Υ		evening set	1388 Nov 20 j 02:16	16° \mathcal{A} 36'37	
	1386 Apr 30 j 05:48	0° \mathcal{B}		asc. node	1388 Nov 25 j 03:57	13° \mathcal{A} 41'20	
	1386 May 24 j 18:40	0° \mathbb{I}		inferior conj	1388 Nov 26 j 07:07	13° \mathcal{A} 00'08	0°17'42
morning set	1386 May 28 j 12:10	4° \mathbb{I} 33'58		minimum elong	1388 Nov 26 j 06:26	13° \mathcal{A} 01'10	0°17'28
asc. node	1386 Jun 10 j 09:03	20° \mathbb{I} 20'14		min. Earth dist.	1388 Nov 26 j 05:09	13° \mathcal{A} 03'07	0.26399 AU
	1386 Jun 18 j 06:02	0° \mathcal{E}		morning rise	1388 Dec 02 j 10:38	9° \mathcal{A} 26'02	
max. Earth dist.	1386 Jul 01 j 11:21	16° \mathcal{E} 15'23	1.73450 AU	direct	1388 Dec 16 j 16:14	5° \mathcal{A} 23'19	
				greatest brilliancy	1388 Dec 26 j 17:32	7° \mathcal{A} 19'21	-4.9m
superior conj	1386 Jul 03 j 22:14	19° \mathcal{E} 16'39	0°52'01		1389 Jan 27 j 14:21	0° \mathcal{B}	
minimum elong	1386 Jul 03 j 13:48	18° \mathcal{E} 50'40	0°51'41	morning max el	1389 Feb 05 j 02:30	8° \mathcal{B} 16'05	46°47'02
	1386 Jul 12 j 15:05	0° \mathcal{Q}			1389 Feb 25 j 16:46	0° \approx	
	1386 Aug 05 j 21:50	0° \mathbb{M}		desc. node	1389 Mar 16 j 17:31	21° \approx 20'31	
evening rise	1386 Aug 08 j 19:10	3° \mathbb{M} 34'30			1389 Mar 24 j 06:28	0° \mathcal{H}	
	1386 Aug 30 j 03:19	0° \mathcal{E}			1389 Apr 18 j 22:46	0° Υ	
	1386 Sep 23 j 08:50	0° \mathbb{M}			1389 May 14 j 04:58	0° \mathcal{B}	
desc. node	1386 Sep 29 j 22:29	8° \mathbb{M} 07'39			1389 Jun 08 j 04:46	0° \mathbb{I}	
	1386 Oct 17 j 15:26	0° \mathcal{A}			1389 Jul 02 j 22:48	0° \mathcal{E}	
	1386 Nov 11 j 00:17	0° \mathcal{B}		asc. node	1389 Jul 07 j 20:58	6° \mathcal{E} 00'12	
	1386 Dec 05 j 14:16	0° \approx			1389 Jul 27 j 10:47	0° \mathcal{Q}	
	1386 Dec 30 j 16:36	0° \mathcal{H}		morning set	1389 Aug 04 j 05:25	9° \mathcal{Q} 35'09	
asc. node	1387 Jan 21 j 01:45	24° \mathcal{H} 31'42			1389 Aug 20 j 17:07	0° \mathbb{M}	
	1387 Jan 26 j 00:42	0° Υ		max. Earth dist.	1389 Sep 06 j 17:33	21° \mathbb{M} 10'48	1.72160 AU
evening max el	1387 Feb 11 j 05:03	17° Υ 00'10	46°27'12				
	1387 Feb 25 j 00:06	0° \mathcal{B}		superior conj	1389 Sep 10 j 02:18	25° \mathbb{M} 22'34	1°22'27
greatest brilliancy	1387 Mar 22 j 09:58	16° \mathcal{B} 53'28	-4.8m	minimum elong	1389 Sep 10 j 06:47	25° \mathbb{M} 36'34	1°22'24
retrograde	1387 Apr 02 j 03:43	19° \mathcal{B} 01'59			1389 Sep 13 j 19:12	0° \mathcal{E}	
evening set	1387 Apr 18 j 03:16	14° \mathcal{B} 03'22			1389 Oct 07 j 18:56	0° \mathbb{M}	
inferior conj	1387 Apr 23 j 12:32	10° \mathcal{B} 45'59	4°19'27	evening rise	1389 Oct 18 j 20:41	13° \mathbb{M} 51'52	
minimum elong	1387 Apr 23 j 20:52	10° \mathcal{B} 32'52	4°17'19	desc. node	1389 Oct 27 j 10:19	24° \mathbb{M} 35'46	
min. Earth dist.	1387 Apr 23 j 14:36	10° \mathcal{B} 42'44	0.28754 AU		1389 Oct 31 j 17:53	0° \mathcal{A}	
morning rise	1387 Apr 29 j 14:38	7° \mathcal{B} 04'47			1389 Nov 24 j 17:08	0° \mathcal{B}	
desc. node	1387 May 12 j 14:56	2° \mathcal{B} 37'30			1389 Dec 18 j 17:53	0° \approx	
direct	1387 May 14 j 22:12	2° \mathcal{B} 31'14			1390 Jan 11 j 22:28	0° \mathcal{H}	
greatest brilliancy	1387 May 25 j 01:32	4° \mathcal{B} 22'18	-4.7m		1390 Feb 05 j 11:18	0° Υ	
	1387 Jun 30 j 07:52	0° \mathbb{I}		asc. node	1390 Feb 17 j 13:40	14° Υ 32'25	
morning max el	1387 Jul 02 j 16:34	2° \mathbb{I} 13'45	45°44'06		1390 Mar 02 j 15:37	0° \mathcal{B}	
	1387 Jul 29 j 16:42	0° \mathcal{E}			1390 Mar 29 j 01:10	0° \mathbb{I}	
	1387 Aug 25 j 07:33	0° \mathcal{Q}		evening max el	1390 Apr 23 j 02:09	25° \mathbb{I} 59'51	45°28'21
asc. node	1387 Sep 02 j 18:39	9° \mathcal{Q} 53'32			1390 Apr 27 j 07:29	0° \mathcal{E}	
	1387 Sep 19 j 15:23	0° \mathbb{M}		greatest brilliancy	1390 May 30 j 19:31	23° \mathcal{E} 41'13	-4.7m
	1387 Oct 14 j 05:08	0° \mathcal{E}		desc. node	1390 Jun 09 j 02:57	25° \mathcal{E} 44'40	
	1387 Nov 07 j 08:38	0° \mathbb{M}		retrograde	1390 Jun 10 j 16:06	25° \mathcal{E} 47'25	
	1387 Dec 01 j 07:17	0° \mathcal{A}		evening set	1390 Jun 26 j 04:33	21° \mathcal{E} 11'20	
desc. node	1387 Dec 23 j 07:54	27° \mathcal{A} 40'17		inferior conj	1390 Jul 02 j 03:26	17° \mathcal{E} 36'33	-5°04'00
	1387 Dec 25 j 04:23	0° \mathcal{B}		minimum elong	1390 Jul 01 j 18:07	17° \mathcal{E} 51'07	5°01'46
morning set	1388 Jan 01 j 06:28	8° \mathcal{B} 54'04		min. Earth dist.	1390 Jul 02 j 02:43	17° \mathcal{E} 37'40	0.28968 AU
	1388 Jan 18 j 01:50	0° \approx		morning rise	1390 Jul 07 j 07:36	14° \mathcal{E} 27'55	
	1388 Feb 11 j 00:50	0° \mathcal{H}		direct	1390 Jul 23 j 19:53	9° \mathcal{E} 19'32	
				greatest brilliancy	1390 Aug 03 j 08:11	11° \mathcal{E} 19'08	-4.7m
superior conj	1388 Feb 11 j 16:52	0° \mathcal{H} 50'04	-1°24'42		1390 Aug 31 j 09:47	0° \mathcal{Q}	
minimum elong	1388 Feb 11 j 12:56	0° \mathcal{H} 37'47	1°24'40	morning max el	1390 Sep 11 j 05:11	10° \mathcal{Q} 05'39	46°10'24
max. Earth dist.	1388 Feb 15 j 13:40	5° \mathcal{H} 39'51	1.71843 AU	asc. node	1390 Sep 30 j 06:25	29° \mathcal{Q} 54'15	
	1388 Mar 06 j 02:33	0° Υ			1390 Sep 30 j 08:31	0° \mathbb{M}	

	1390 Oct 26 j 16:56	0°♄			1393 Apr 09 j 07:19	0°♄	
	1390 Nov 20 j 17:10	0°♄			1393 May 04 j 17:09	0°♄	
	1390 Dec 15 j 03:16	0°♄			1393 May 31 j 02:31	0°♄	
	1391 Jan 08 j 07:41	0°♄			1393 Jun 28 j 14:07	0°♄	
desc. node	1391 Jan 19 j 19:52	14°♄18'42		evening max el	1393 Jul 03 j 01:18	4°♄19'56	45°35'11
	1391 Feb 01 j 10:30	0°♄		desc. node	1393 Jul 06 j 14:54	7°♄41'27	
	1391 Feb 25 j 13:44	0°♄			1393 Aug 05 j 08:06	0°♄	
morning set	1391 Mar 17 j 22:30	25°♄15'25		greatest brilliancy	1393 Aug 11 j 14:48	2°♄35'32	-4.8m
	1391 Mar 21 j 18:28	0°♄		retrograde	1393 Aug 20 j 21:07	4°♄09'23	
	1391 Apr 15 j 01:18	0°♄			1393 Sep 04 j 14:39	30°♄	
				evening set	1393 Sep 07 j 18:53	28°♄12'44	
superior conj	1391 Apr 24 j 21:38	12°♄07'53	-0°41'14	inferior conj	1393 Sep 10 j 23:24	26°♄16'55	-8°31'52
minimum elong	1391 Apr 25 j 05:36	12°♄32'23	0°40'53	minimum elong	1393 Sep 11 j 04:20	26°♄09'21	8°31'30
max. Earth dist.	1391 Apr 26 j 19:39	14°♄29'31	1.73310 AU	min. Earth dist.	1393 Sep 11 j 19:40	25°♄45'50	0.27940 AU
	1391 May 09 j 10:11	0°♄		morning rise	1393 Sep 14 j 13:30	24°♄06'12	
asc. node	1391 May 12 j 23:18	4°♄21'31		direct	1393 Oct 02 j 02:38	18°♄13'41	
evening rise	1391 May 31 j 18:56	27°♄27'47		greatest brilliancy	1393 Oct 13 j 07:54	20°♄33'37	-4.9m
	1391 Jun 02 j 20:33	0°♄		asc. node	1393 Oct 27 j 18:09	28°♄55'19	
	1391 Jun 27 j 08:01	0°♄			1393 Oct 29 j 04:49	0°♄	
	1391 Jul 21 j 20:58	0°♄		morning max el	1393 Nov 21 j 18:20	21°♄22'06	46°51'11
	1391 Aug 15 j 12:49	0°♄			1393 Nov 30 j 00:33	0°♄	
desc. node	1391 Sep 01 j 12:34	20°♄31'53			1393 Dec 26 j 18:10	0°♄	
	1391 Sep 09 j 09:32	0°♄			1394 Jan 21 j 02:47	0°♄	
	1391 Oct 04 j 14:05	0°♄			1394 Feb 14 j 22:55	0°♄	
	1391 Oct 30 j 09:26	0°♄		desc. node	1394 Feb 16 j 07:38	1°♄39'17	
	1391 Nov 26 j 18:19	0°♄			1394 Mar 11 j 14:07	0°♄	
evening max el	1391 Nov 29 j 08:56	2°♄41'04	47°19'58		1394 Apr 05 j 03:37	0°♄	
asc. node	1391 Dec 23 j 16:01	24°♄47'47			1394 Apr 29 j 16:42	0°♄	
	1391 Dec 31 j 04:40	0°♄			1394 May 24 j 05:19	0°♄	
greatest brilliancy	1392 Jan 08 j 23:01	4°♄24'59	-4.9m	morning set	1394 May 26 j 06:23	2°♄30'13	
retrograde	1392 Jan 19 j 08:10	6°♄28'21		asc. node	1394 Jun 09 j 11:13	19°♄54'30	
evening set	1392 Feb 05 j 20:46	0°♄28'49			1394 Jun 17 j 16:34	0°♄	
	1392 Feb 06 j 15:36	30°♄		max. Earth dist.	1394 Jun 29 j 10:22	14°♄26'04	1.73477 AU
min. Earth dist.	1392 Feb 08 j 10:36	28°♄52'59	0.27578 AU				
inferior conj	1392 Feb 09 j 05:33	28°♄23'12	8°38'09	superior conj	1394 Jul 01 j 16:52	17°♄13'48	0°49'31
minimum elong	1392 Feb 09 j 01:29	28°♄29'36	8°37'53	minimum elong	1394 Jul 01 j 08:37	16°♄48'23	0°49'11
morning rise	1392 Feb 12 j 06:26	26°♄30'06			1394 Jul 12 j 01:38	0°♄	
direct	1392 Feb 29 j 22:53	20°♄30'06			1394 Aug 05 j 08:31	0°♄	
greatest brilliancy	1392 Mar 09 j 22:00	22°♄00'09	-4.8m	evening rise	1394 Aug 06 j 13:10	1°♄28'35	
	1392 Mar 25 j 03:51	0°♄			1394 Aug 29 j 14:13	0°♄	
desc. node	1392 Apr 13 j 05:12	15°♄37'39			1394 Sep 22 j 20:02	0°♄	
morning max el	1392 Apr 19 j 05:22	21°♄18'47	46°04'16	desc. node	1394 Sep 29 j 00:28	7°♄38'48	
	1392 Apr 27 j 23:01	0°♄			1394 Oct 17 j 03:01	0°♄	
	1392 May 25 j 23:03	0°♄			1394 Nov 10 j 12:23	0°♄	
	1392 Jun 21 j 08:22	0°♄			1394 Dec 05 j 03:10	0°♄	
	1392 Jul 16 j 21:37	0°♄			1394 Dec 30 j 06:56	0°♄	
asc. node	1392 Aug 04 j 08:49	22°♄08'23		asc. node	1395 Jan 20 j 03:47	23°♄51'03	
	1392 Aug 10 j 20:33	0°♄			1395 Jan 25 j 18:14	0°♄	
	1392 Sep 04 j 08:10	0°♄		evening max el	1395 Feb 08 j 20:48	14°♄45'42	46°29'47
	1392 Sep 28 j 11:38	0°♄			1395 Feb 25 j 06:04	0°♄	
morning set	1392 Oct 13 j 18:37	19°♄08'19		greatest brilliancy	1395 Mar 20 j 02:05	14°♄42'13	-4.8m
	1392 Oct 22 j 10:16	0°♄		retrograde	1395 Mar 30 j 20:44	16°♄51'29	
	1392 Nov 15 j 06:48	0°♄		evening set	1395 Apr 15 j 21:57	11°♄49'07	
				inferior conj	1395 Apr 21 j 04:41	8°♄35'17	4°36'49
superior conj	1392 Nov 22 j 20:53	9°♄32'58	0°02'33	minimum elong	1395 Apr 21 j 13:23	8°♄21'36	4°34'38
minimum elong	1392 Nov 22 j 21:34	9°♄35'06	0°02'31	min. Earth dist.	1395 Apr 21 j 06:17	8°♄32'46	0.28733 AU
behind sun begin	1392 Nov 21 j 19:30	8°♄13'06		morning rise	1395 Apr 27 j 05:05	4°♄56'49	
behind sun end	1392 Nov 23 j 23:37	10°♄57'05		desc. node	1395 May 11 j 17:00	0°♄21'52	
max. Earth dist.	1392 Nov 22 j 18:09	9°♄24'21	1.71075 AU	direct	1395 May 12 j 14:16	0°♄20'56	
desc. node	1392 Nov 23 j 22:10	10°♄52'32		greatest brilliancy	1395 May 22 j 16:13	2°♄11'23	-4.7m
	1392 Dec 09 j 02:57	0°♄			1395 Jun 30 j 06:31	0°♄	
	1393 Jan 01 j 23:50	0°♄		morning max el	1395 Jun 30 j 09:30	0°♄07'05	45°43'59
evening rise	1393 Jan 03 j 10:52	1°♄49'55			1395 Jul 29 j 08:13	0°♄	
	1393 Jan 25 j 22:48	0°♄			1395 Aug 24 j 20:41	0°♄	
	1393 Feb 19 j 01:54	0°♄		asc. node	1395 Sep 01 j 20:38	9°♄21'59	
	1393 Mar 15 j 11:43	0°♄			1395 Sep 19 j 03:27	0°♄	
asc. node	1393 Mar 17 j 01:36	1°♄55'30			1395 Oct 13 j 16:41	0°♄	

	1395 Nov 06 j 19:55	0°♌			1398 Apr 27 j 08:00	0°♉	
	1395 Nov 30 j 18:23	0°♊		greatest brilliancy	1398 May 28 j 11:47	21°♊32'41	-4.7m
desc. node	1395 Dec 22 j 10:03	27°♊12'32		retrograde	1398 Jun 08 j 07:39	23°♊38'45	
	1395 Dec 24 j 15:22	0°♊		desc. node	1398 Jun 08 j 05:07	23°♊38'44	
morning set	1395 Dec 29 j 16:03	6°♊19'02		evening set	1398 Jun 23 j 18:52	19°♊05'15	
	1396 Jan 17 j 12:44	0°♊		inferior conj	1398 Jun 29 j 19:42	15°♊27'46	-4°47'37
				minimum elong	1398 Jun 29 j 10:41	15°♊41'53	4°45'25
superior conj	1396 Feb 09 j 04:13	28°♊21'39	-1°23'58	min. Earth dist.	1398 Jun 29 j 19:10	15°♊28'37	0.28971 AU
minimum elong	1396 Feb 08 j 23:17	28°♊06'17	1°23'55	morning rise	1398 Jul 05 j 02:20	12°♊15'17	
	1396 Feb 10 j 11:41	0°♋		direct	1398 Jul 21 j 11:52	7°♊10'38	
max. Earth dist.	1396 Feb 13 j 01:25	3°♋12'53	1.71795 AU	greatest brilliancy	1398 Aug 01 j 00:26	9°♊09'57	-4.7m
	1396 Mar 05 j 13:21	0°♋			1398 Aug 31 j 12:24	0°♋	
evening rise	1396 Mar 19 j 23:53	17°♋54'24		morning max el	1398 Sep 08 j 19:10	7°♋48'54	46°09'02
	1396 Mar 29 j 18:51	0°♌		asc. node	1398 Sep 29 j 08:32	29°♋14'14	
asc. node	1396 Apr 13 j 13:32	18°♌11'10			1398 Sep 30 j 01:13	0°♌	
	1396 Apr 23 j 04:57	0°♌			1398 Oct 26 j 06:47	0°♌	
	1396 May 17 j 20:22	0°♌			1398 Nov 20 j 05:49	0°♌	
	1396 Jun 11 j 18:19	0°♍			1398 Dec 14 j 15:17	0°♊	
	1396 Jul 07 j 01:45	0°♌			1399 Jan 07 j 19:19	0°♊	
	1396 Aug 02 j 00:52	0°♌		desc. node	1399 Jan 18 j 21:51	13°♊49'10	
desc. node	1396 Aug 03 j 02:37	1°♌12'59			1399 Jan 31 j 21:51	0°♊	
	1396 Aug 29 j 06:15	0°♌			1399 Feb 25 j 00:49	0°♋	
evening max el	1396 Sep 14 j 07:11	16°♌25'23	46°41'46	morning set	1399 Mar 15 j 12:32	22°♋56'24	
	1396 Sep 29 j 00:50	0°♊			1399 Mar 21 j 05:22	0°♋	
greatest brilliancy	1396 Oct 24 j 16:10	16°♊26'57	-4.9m		1399 Apr 14 j 12:04	0°♋	
retrograde	1396 Nov 03 j 07:25	18°♊11'04					
evening set	1396 Nov 17 j 15:09	14°♊06'58		superior conj	1399 Apr 22 j 14:03	9°♋57'36	-0°44'07
inferior conj	1396 Nov 23 j 19:08	10°♊31'24	-0°07'10	minimum elong	1399 Apr 22 j 22:25	10°♋23'22	0°43'46
minimum elong	1396 Nov 23 j 19:24	10°♊30'59	0°07'04	max. Earth dist.	1399 Apr 24 j 14:52	12°♋27'52	1.73273 AU
transit middle	1396 Nov 23 j 19:24	10°♊30'59	0°07'04		1399 May 08 j 20:55	0°♌	
transit begin	1396 Nov 23 j 15:42	10°♊36'36		asc. node	1399 May 12 j 01:26	3°♌55'08	
transit end	1396 Nov 23 j 23:06	10°♊25'21		evening rise	1399 May 29 j 13:18	25°♌23'48	
min. Earth dist.	1396 Nov 23 j 18:36	10°♊32'12	0.26405 AU		1399 Jun 02 j 07:21	0°♌	
asc. node	1396 Nov 24 j 06:08	10°♊14'39			1399 Jun 26 j 18:59	0°♍	
morning rise	1396 Nov 29 j 23:40	6°♊55'49			1399 Jul 21 j 08:16	0°♌	
direct	1396 Dec 14 j 04:59	2°♊54'38			1399 Aug 15 j 00:37	0°♌	
greatest brilliancy	1396 Dec 24 j 07:02	4°♊51'22	-4.9m	desc. node	1399 Aug 31 j 14:37	20°♌01'01	
	1397 Jan 27 j 16:52	0°♊			1399 Sep 08 j 22:08	0°♌	
morning max el	1397 Feb 02 j 15:27	5°♊50'32	46°48'03		1399 Oct 04 j 03:56	0°♊	
	1397 Feb 25 j 10:05	0°♊			1399 Oct 30 j 01:36	0°♊	
desc. node	1397 Mar 15 j 19:35	20°♊43'53			1399 Nov 26 j 16:13	0°♊	
	1397 Mar 23 j 20:41	0°♋		evening max el	1399 Nov 26 j 22:09	0°♊15'10	47°20'09
	1397 Apr 18 j 11:27	0°♋		asc. node	1399 Dec 22 j 18:00	23°♊31'04	
	1397 May 13 j 16:45	0°♋			1400 Jan 02 j 00:35	0°♋	
	1397 Jun 07 j 16:00	0°♌		greatest brilliancy	1400 Jan 06 j 14:09	2°♋02'37	-4.9m
	1397 Jul 02 j 09:41	0°♌		retrograde	1400 Jan 16 j 22:05	4°♋05'28	
asc. node	1397 Jul 06 j 23:02	5°♌33'27			1400 Jan 31 j 04:01	30°♋	
	1397 Jul 26 j 21:29	0°♍		evening set	1400 Feb 03 j 08:05	28°♊10'41	
morning set	1397 Aug 01 j 22:52	7°♍27'57		min. Earth dist.	1400 Feb 06 j 00:24	26°♊31'23	0.27522 AU
	1397 Aug 20 j 03:46	0°♌		inferior conj	1400 Feb 06 j 19:37	26°♊01'14	8°33'34
max. Earth dist.	1397 Sep 04 j 06:33	18°♌48'29	1.72214 AU	minimum elong	1400 Feb 06 j 14:44	26°♊08'54	8°33'13
				morning rise	1400 Feb 09 j 21:36	24°♊06'35	
superior conj	1397 Sep 07 j 18:27	23°♌09'57	1°23'10	direct	1400 Feb 27 j 11:45	18°♊08'49	
minimum elong	1397 Sep 07 j 22:12	23°♌21'40	1°23'08	greatest brilliancy	1400 Mar 07 j 11:54	19°♊39'38	-4.8m
	1397 Sep 13 j 05:54	0°♌			1400 Mar 25 j 23:44	0°♋	
	1397 Oct 07 j 05:46	0°♌		desc. node	1400 Apr 12 j 07:21	14°♋43'12	
evening rise	1397 Oct 16 j 09:14	11°♌26'43		morning max el	1400 Apr 16 j 18:58	18°♋59'35	46°05'43
desc. node	1397 Oct 26 j 12:29	24°♌08'06			1400 Apr 27 j 18:46	0°♋	
	1397 Oct 31 j 04:55	0°♊			1400 May 25 j 14:03	0°♋	
	1397 Nov 24 j 04:23	0°♊			1400 Jun 20 j 21:23	0°♌	
	1397 Dec 18 j 05:21	0°♊			1400 Jul 16 j 09:37	0°♌	
	1398 Jan 11 j 10:16	0°♋		asc. node	1400 Aug 03 j 10:46	21°♊39'23	
	1398 Feb 04 j 23:39	0°♋			1400 Aug 10 j 07:59	0°♍	
asc. node	1398 Feb 16 j 15:39	14°♋00'11			1400 Sep 03 j 19:19	0°♌	
	1398 Mar 02 j 05:07	0°♋			1400 Sep 27 j 22:40	0°♌	
	1398 Mar 28 j 17:15	0°♌		morning set	1400 Oct 11 j 08:26	16°♌46'40	
evening max el	1398 Apr 20 j 17:24	23°♌47'38	45°29'24		1400 Oct 21 j 21:16	0°♌	

	1400 Nov 14 j 17:49	0°♈		evening set	1403 Apr 13 j 16:50	9°♋34'24	
				inferior conj	1403 Apr 18 j 20:57	6°♋24'02	4°53'43
superior conj	1400 Nov 20 j 07:29	7°♈00'39	0°06'29	minimum elong	1403 Apr 19 j 05:58	6°♋09'50	4°51'30
minimum elong	1400 Nov 20 j 09:11	7°♈06'01	0°06'23	min. Earth dist.	1403 Apr 18 j 21:56	6°♋22'28	0.28715 AU
behind sun begin	1400 Nov 19 j 08:47	5°♈49'13		morning rise	1403 Apr 24 j 19:26	2°♋48'21	
behind sun end	1400 Nov 21 j 09:35	8°♈22'48			1403 Apr 30 j 17:05	30°♋	
max. Earth dist.	1400 Nov 20 j 02:21	6°♈44'31	1.71087 AU	direct	1403 May 10 j 06:45	28°♋10'10	
desc. node	1400 Nov 23 j 00:18	10°♈24'36		desc. node	1403 May 10 j 19:09	28°♋10'29	
	1400 Dec 08 j 13:59	0°♋			1403 May 20 j 07:28	0°♋	
evening rise	1400 Dec 31 j 21:12	29°♋17'01		greatest brilliancy	1403 May 20 j 06:44	29°♋59'21	-4.7m
	1401 Jan 01 j 10:54	0°♋		morning max el	1403 Jun 28 j 02:03	27°♋58'25	45°43'46
	1401 Jan 25 j 09:58	0°♋			1403 Jun 30 j 04:43	0°♋	
	1401 Feb 18 j 13:13	0°♋			1403 Jul 28 j 23:54	0°♋	
	1401 Mar 14 j 23:20	0°♋			1403 Aug 24 j 10:05	0°♋	
asc. node	1401 Mar 16 j 03:41	1°♋26'24		asc. node	1403 Aug 31 j 22:49	8°♋50'04	
	1401 Apr 08 j 19:28	0°♋			1403 Sep 18 j 15:49	0°♋	
	1401 May 04 j 06:23	0°♋			1403 Oct 13 j 04:32	0°♋	
	1401 May 30 j 18:02	0°♋			1403 Nov 06 j 07:29	0°♋	
	1401 Jun 28 j 11:54	0°♋			1403 Nov 30 j 05:48	0°♋	
evening max el	1401 Jun 30 j 15:42	2°♋04'35	45°33'45	desc. node	1403 Dec 21 j 11:59	26°♋43'03	
desc. node	1401 Jul 05 j 16:51	6°♋47'51			1403 Dec 24 j 02:40	0°♋	
	1401 Aug 08 j 07:30	0°♋		morning set	1403 Dec 27 j 01:46	3°♋43'22	
greatest brilliancy	1401 Aug 09 j 02:31	0°♋16'04	-4.8m		1404 Jan 16 j 23:56	0°♋	
retrograde	1401 Aug 18 j 11:20	1°♋51'40					
	1401 Aug 28 j 04:15	30°♋		superior conj	1404 Feb 06 j 15:45	25°♋52'55	-1°23'04
evening set	1401 Sep 05 j 10:00	25°♋52'27		minimum elong	1404 Feb 06 j 09:54	25°♋34'38	1°23'00
inferior conj	1401 Sep 08 j 13:31	23°♋58'04	-8°36'07		1404 Feb 09 j 22:47	0°♋	
minimum elong	1401 Sep 08 j 17:40	23°♋51'42	8°35'52	max. Earth dist.	1404 Feb 10 j 15:23	0°♋51'53	1.71740 AU
min. Earth dist.	1401 Sep 09 j 08:52	23°♋28'22	0.28004 AU		1404 Mar 05 j 00:24	0°♋	
morning rise	1401 Sep 12 j 01:05	21°♋51'11		evening rise	1404 Mar 17 j 13:57	15°♋35'16	
direct	1401 Sep 29 j 17:53	15°♋53'53			1404 Mar 29 j 05:53	0°♋	
greatest brilliancy	1401 Oct 10 j 22:22	18°♋13'29	-4.9m	asc. node	1404 Apr 12 j 15:39	17°♋43'32	
asc. node	1401 Oct 26 j 20:18	27°♋40'41			1404 Apr 22 j 16:08	0°♋	
	1401 Oct 29 j 19:35	0°♋			1404 May 17 j 07:52	0°♋	
morning max el	1401 Nov 19 j 09:44	19°♋02'20	46°50'28		1404 Jun 11 j 06:25	0°♋	
	1401 Nov 29 j 20:03	0°♋			1404 Jul 06 j 14:53	0°♋	
	1401 Dec 26 j 09:28	0°♋			1404 Aug 01 j 15:53	0°♋	
	1402 Jan 20 j 16:16	0°♋		desc. node	1404 Aug 02 j 04:42	0°♋36'10	
	1402 Feb 14 j 11:24	0°♋			1404 Aug 29 j 01:27	0°♋	
desc. node	1402 Feb 15 j 09:42	1°♋07'48		evening max el	1404 Sep 11 j 20:40	14°♋02'14	46°39'10
	1402 Mar 11 j 01:58	0°♋			1404 Sep 29 j 11:47	0°♋	
	1402 Apr 04 j 15:03	0°♋		greatest brilliancy	1404 Oct 22 j 05:32	13°♋58'44	-4.9m
	1402 Apr 29 j 03:51	0°♋		retrograde	1404 Oct 31 j 18:58	15°♋40'59	
	1402 May 23 j 16:15	0°♋		evening set	1404 Nov 15 j 04:17	11°♋36'09	
morning set	1402 May 24 j 00:22	0°♋24'51		inferior conj	1404 Nov 21 j 07:12	8°♋01'53	-0°31'53
asc. node	1402 Jun 08 j 13:13	19°♋27'22		minimum elong	1404 Nov 21 j 08:25	8°♋00'01	0°31'28
	1402 Jun 17 j 03:24	0°♋		min. Earth dist.	1404 Nov 21 j 08:26	8°♋00'00	0.26416 AU
max. Earth dist.	1402 Jun 27 j 09:14	12°♋35'26	1.73500 AU	asc. node	1404 Nov 23 j 08:09	6°♋47'44	
				morning rise	1404 Nov 27 j 12:29	4°♋24'56	
superior conj	1402 Jun 29 j 11:13	15°♋09'11	0°46'56	direct	1404 Dec 11 j 17:17	0°♋24'54	
minimum elong	1402 Jun 29 j 03:12	14°♋44'30	0°46'37	greatest brilliancy	1404 Dec 21 j 21:09	2°♋22'54	-4.9m
	1402 Jul 11 j 12:28	0°♋			1405 Jan 27 j 18:26	0°♋	
evening rise	1402 Aug 04 j 07:00	29°♋21'23		morning max el	1405 Jan 31 j 03:38	3°♋21'45	46°49'12
	1402 Aug 04 j 19:29	0°♋			1405 Feb 25 j 03:23	0°♋	
	1402 Aug 29 j 01:26	0°♋		desc. node	1405 Mar 14 j 21:41	20°♋06'49	
	1402 Sep 22 j 07:34	0°♋			1405 Mar 23 j 11:01	0°♋	
desc. node	1402 Sep 28 j 02:36	7°♋09'29			1405 Apr 18 j 00:17	0°♋	
	1402 Oct 16 j 14:57	0°♋			1405 May 13 j 04:42	0°♋	
	1402 Nov 10 j 00:50	0°♋			1405 Jun 07 j 03:25	0°♋	
	1402 Dec 04 j 16:24	0°♋			1405 Jul 01 j 20:49	0°♋	
	1402 Dec 29 j 21:36	0°♋		asc. node	1405 Jul 06 j 01:00	5°♋05'36	
asc. node	1403 Jan 19 j 05:48	23°♋09'34			1405 Jul 26 j 08:30	0°♋	
	1403 Jan 25 j 12:21	0°♋		morning set	1405 Jul 30 j 16:18	5°♋19'50	
evening max el	1403 Feb 06 j 12:58	12°♋31'48	46°32'19		1405 Aug 19 j 14:45	0°♋	
	1403 Feb 25 j 14:38	0°♋		max. Earth dist.	1405 Sep 01 j 20:38	16°♋28'34	1.72270 AU
greatest brilliancy	1403 Mar 17 j 18:30	12°♋30'56	-4.8m				
retrograde	1403 Mar 28 j 13:42	14°♋40'22		superior conj	1405 Sep 05 j 10:37	20°♋56'28	1°23'45

minimum elong	1405 Sep 05 j 13:38	21°  05'51	1°23'44	greatest brilliancy	1408 Mar 05 j 01:13	17°  17'41	-4.8m
	1405 Sep 12 j 16:56	0°  ♁			1408 Mar 26 j 14:52	0°  ✕	
	1405 Oct 06 j 16:55	0°  ♌		desc. node	1408 Apr 11 j 09:24	13°  ✕49'12	
evening rise	1405 Oct 13 j 21:49	9°  ♌00'49		morning max el	1408 Apr 14 j 09:26	16°  ✕41'58	46°07'17
desc. node	1405 Oct 25 j 14:31	23°  ♌39'06			1408 Apr 27 j 14:07	0°  ♑	
	1405 Oct 30 j 16:14	0°  ♊			1408 May 25 j 04:57	0°  ♋	
	1405 Nov 23 j 15:56	0°  ♊			1408 Jun 20 j 10:23	0°  ♊	
	1405 Dec 17 j 17:09	0°  ♐			1408 Jul 15 j 21:36	0°  ♏	
	1406 Jan 10 j 22:24	0°  ♏		asc. node	1408 Aug 02 j 12:59	21°  ♏11'11	
	1406 Feb 04 j 12:22	0°  ♑			1408 Aug 09 j 19:25	0°  ♑	
asc. node	1406 Feb 15 j 17:48	13°  ♑27'22			1408 Sep 03 j 06:28	0°  ♑	
	1406 Mar 01 j 19:00	0°  ♋			1408 Sep 27 j 09:44	0°  ♁	
	1406 Mar 28 j 09:51	0°  ♊		morning set	1408 Oct 08 j 22:24	14°  ♁25'18	
evening max el	1406 Apr 18 j 08:04	21°  ♊33'36	45°30'41		1408 Oct 21 j 08:21	0°  ♌	
	1406 Apr 27 j 09:58	0°  ♏			1408 Nov 14 j 04:57	0°  ♊	
greatest brilliancy	1406 May 26 j 03:52	19°  ♏23'55	-4.7m				
retrograde	1406 Jun 05 j 23:44	21°  ♏30'32		superior conj	1408 Nov 17 j 17:51	4°  ♊27'09	0°10'24
desc. node	1406 Jun 07 j 07:00	21°  ♏28'33		minimum elong	1408 Nov 17 j 20:34	4°  ♊35'43	0°10'16
evening set	1406 Jun 21 j 09:34	16°  ♏58'58		behind sun begin	1408 Nov 16 j 23:58	3°  ♊30'53	
inferior conj	1406 Jun 27 j 12:13	13°  ♏19'11	-4°31'02	behind sun end	1408 Nov 18 j 17:10	5°  ♊40'32	
minimum elong	1406 Jun 27 j 03:31	13°  ♏32'47	4°28'51	max. Earth dist.	1408 Nov 17 j 11:29	4°  ♊07'06	1.71104 AU
min. Earth dist.	1406 Jun 27 j 11:49	13°  ♏19'49	0.28979 AU	desc. node	1408 Nov 22 j 02:17	9°  ♊55'45	
morning rise	1406 Jul 02 j 21:15	10°  ♏03'09			1408 Dec 08 j 01:09	0°  ♊	
direct	1406 Jul 19 j 03:50	5°  ♏01'47		evening rise	1408 Dec 29 j 07:05	26°  ♊42'16	
greatest brilliancy	1406 Jul 29 j 17:18	7°  ♏01'26	-4.7m		1408 Dec 31 j 22:07	0°  ♐	
	1406 Aug 31 j 13:51	0°  ♑			1409 Jan 24 j 21:15	0°  ♏	
morning max el	1406 Sep 06 j 09:54	5°  ♑33'28	46°07'34		1409 Feb 18 j 00:39	0°  ♑	
asc. node	1406 Sep 28 j 10:37	28°  ♑33'45			1409 Mar 14 j 11:02	0°  ♋	
	1406 Sep 29 j 17:54	0°  ♑		asc. node	1409 Mar 15 j 05:47	0°  ♋57'07	
	1406 Oct 25 j 20:49	0°  ♌			1409 Apr 08 j 07:44	0°  ♊	
	1406 Nov 19 j 18:40	0°  ♌			1409 May 03 j 19:44	0°  ♏	
	1406 Dec 14 j 03:31	0°  ♊			1409 May 30 j 09:45	0°  ♑	
	1407 Jan 07 j 07:09	0°  ♊			1409 Jun 28 j 10:23	0°  ♑	
desc. node	1407 Jan 17 j 23:53	13°  ♊19'10		evening max el	1409 Jun 28 j 07:09	29°  ♑52'18	45°32'31
	1407 Jan 31 j 09:23	0°  ♐		desc. node	1409 Jul 04 j 18:58	5°  ♑54'10	
	1407 Feb 24 j 12:08	0°  ♏		greatest brilliancy	1409 Aug 06 j 14:36	27°  ♑58'28	-4.8m
morning set	1407 Mar 13 j 02:24	20°  ♏36'01		retrograde	1409 Aug 16 j 01:50	29°  ♑35'32	
	1407 Mar 20 j 16:28	0°  ♑		evening set	1409 Sep 03 j 01:08	23°  ♑34'40	
	1407 Apr 13 j 23:03	0°  ♋		inferior conj	1409 Sep 06 j 04:00	21°  ♑41'00	-8°39'25
				minimum elong	1409 Sep 06 j 07:21	21°  ♑35'52	8°39'16
superior conj	1407 Apr 20 j 06:35	7°  ♋47'01	-0°46'56	min. Earth dist.	1409 Sep 06 j 22:09	21°  ♑13'08	0.28066 AU
minimum elong	1407 Apr 20 j 15:20	8°  ♋13'59	0°46'35	morning rise	1409 Sep 09 j 13:22	19°  ♑37'21	
max. Earth dist.	1407 Apr 22 j 08:41	10°  ♋21'18	1.73231 AU	direct	1409 Sep 27 j 09:41	13°  ♑36'10	
	1407 May 08 j 07:50	0°  ♊		greatest brilliancy	1409 Oct 08 j 12:27	15°  ♑54'18	-4.9m
asc. node	1407 May 11 j 03:26	3°  ♊27'47		asc. node	1409 Oct 25 j 22:18	26°  ♑28'51	
evening rise	1407 May 27 j 07:55	23°  ♊20'12			1409 Oct 30 j 06:15	0°  ♁	
	1407 Jun 01 j 18:17	0°  ♏		morning max el	1409 Nov 17 j 01:07	16°  ♁43'03	46°49'15
	1407 Jun 26 j 06:05	0°  ♑			1409 Nov 29 j 14:57	0°  ♌	
	1407 Jul 20 j 19:42	0°  ♑			1409 Dec 26 j 00:35	0°  ♊	
	1407 Aug 14 j 12:38	0°  ♁			1410 Jan 20 j 05:42	0°  ♊	
desc. node	1407 Aug 30 j 16:43	19°  ♁29'38			1410 Feb 13 j 23:53	0°  ♐	
	1407 Sep 08 j 11:01	0°  ♌		desc. node	1410 Feb 14 j 11:52	0°  ♐36'31	
	1407 Oct 03 j 18:11	0°  ♊			1410 Mar 10 j 13:49	0°  ♏	
	1407 Oct 29 j 18:19	0°  ♊			1410 Apr 04 j 02:27	0°  ♑	
evening max el	1407 Nov 24 j 11:42	27°  ♊49'22	47°20'22		1410 Apr 28 j 14:55	0°  ♋	
	1407 Nov 26 j 15:19	0°  ♐		morning set	1410 May 21 j 18:17	28°  ♋19'30	
asc. node	1407 Dec 21 j 20:01	22°  ♐11'15			1410 May 23 j 03:06	0°  ♊	
greatest brilliancy	1408 Jan 04 j 04:33	29°  ♐38'22	-4.9m	asc. node	1410 Jun 07 j 15:14	19°  ♊00'32	
	1408 Jan 05 j 04:17	0°  ♏			1410 Jun 16 j 14:08	0°  ♏	
retrograde	1408 Jan 14 j 12:21	1°  ♏41'37		max. Earth dist.	1410 Jun 25 j 07:11	10°  ♏42'19	1.73515 AU
	1408 Jan 23 j 12:54	30°  ♏					
evening set	1408 Jan 31 j 18:57	25°  ♐51'41		superior conj	1410 Jun 27 j 05:41	13°  ♏05'17	0°44'18
min. Earth dist.	1408 Feb 03 j 13:43	24°  ♐09'00	0.27465 AU	minimum elong	1410 Jun 26 j 21:56	12°  ♏41'29	0°43'58
inferior conj	1408 Feb 04 j 09:31	23°  ♐38'03	8°28'08		1410 Jul 10 j 23:12	0°  ♑	
minimum elong	1408 Feb 04 j 03:50	23°  ♐46'55	8°27'39	evening rise	1410 Aug 02 j 01:09	27°  ♑15'40	
morning rise	1408 Feb 07 j 12:57	21°  ♐41'31			1410 Aug 04 j 06:19	0°  ♑	
direct	1408 Feb 25 j 00:42	15°  ♐46'19			1410 Aug 28 j 12:27	0°  ♁	

	1410 Sep 21 j 18:54	0°♌		1413 Feb 24 j 19:57	0°♏	
desc. node	1410 Sep 27 j 04:40	6°♌40'36	desc. node	1413 Mar 13 j 23:42	19°♏30'39	
	1410 Oct 16 j 02:41	0°♏		1413 Mar 23 j 00:56	0°♏	
	1410 Nov 09 j 13:10	0°♏		1413 Apr 17 j 12:49	0°♏	
	1410 Dec 04 j 05:38	0°♏		1413 May 12 j 16:25	0°♏	
	1410 Dec 29 j 12:27	0°♏		1413 Jun 06 j 14:36	0°♏	
asc. node	1411 Jan 18 j 07:57	22°♏27'52	asc. node	1413 Jul 01 j 07:41	0°♏	
	1411 Jan 25 j 06:58	0°♏		1413 Jul 05 j 03:10	4°♏39'12	
evening max el	1411 Feb 04 j 04:49	10°♏16'35 46°34'43		1413 Jul 25 j 19:12	0°♏	
	1411 Feb 26 j 02:29	0°♏	morning set	1413 Jul 28 j 09:26	3°♏11'45	
greatest brilliancy	1411 Mar 15 j 11:21	10°♏19'27 -4.8m		1413 Aug 19 j 01:25	0°♏	
retrograde	1411 Mar 26 j 06:01	12°♏28'07	max. Earth dist.	1413 Aug 30 j 12:39	14°♏15'41 1.72325 AU	
evening set	1411 Apr 11 j 11:31	7°♏18'47				
inferior conj	1411 Apr 16 j 12:54	4°♏11'59 5°10'22	superior conj	1413 Sep 03 j 02:45	18°♏43'49 1°24'12	
minimum elong	1411 Apr 16 j 22:10	3°♏57'21 5°08'10	minimum elong	1413 Sep 03 j 05:01	18°♏50'53 1°24'12	
min. Earth dist.	1411 Apr 16 j 13:26	4°♏11'08 0.28690 AU		1413 Sep 12 j 03:39	0°♏	
morning rise	1411 Apr 22 j 09:13	0°♏39'12		1413 Oct 06 j 03:45	0°♏	
	1411 Apr 23 j 13:56	30°♏	evening rise	1413 Oct 11 j 10:41	6°♏36'53	
direct	1411 May 07 j 22:47	25°♏58'48	desc. node	1413 Oct 24 j 16:30	23°♏10'59	
desc. node	1411 May 09 j 21:06	26°♏03'08		1413 Oct 30 j 03:14	0°♏	
greatest brilliancy	1411 May 17 j 20:53	27°♏46'31 -4.7m		1413 Nov 23 j 03:06	0°♏	
	1411 May 23 j 03:58	0°♏		1413 Dec 17 j 04:32	0°♏	
morning max el	1411 Jun 25 j 17:29	25°♏47'22 45°43'42		1414 Jan 10 j 10:08	0°♏	
	1411 Jun 30 j 01:56	0°♏		1414 Feb 04 j 00:44	0°♏	
	1411 Jul 28 j 15:08	0°♏	asc. node	1414 Feb 14 j 19:50	12°♏55'16	
asc. node	1411 Aug 23 j 23:08	0°♏		1414 Mar 01 j 08:39	0°♏	
	1411 Aug 31 j 00:49	8°♏18'34		1414 Mar 28 j 02:29	0°♏	
	1411 Sep 18 j 03:51	0°♏	evening max el	1414 Apr 15 j 22:48	19°♏20'17 45°31'57	
	1411 Oct 12 j 16:02	0°♏		1414 Apr 27 j 13:18	0°♏	
	1411 Nov 05 j 18:43	0°♏	greatest brilliancy	1414 May 23 j 19:21	17°♏14'30 -4.7m	
	1411 Nov 29 j 16:52	0°♏	retrograde	1414 Jun 03 j 16:01	19°♏22'15	
desc. node	1411 Dec 20 j 14:07	26°♏15'08	desc. node	1414 Jun 06 j 09:08	19°♏13'33	
	1411 Dec 23 j 13:40	0°♏	evening set	1414 Jun 19 j 00:09	14°♏52'16	
morning set	1411 Dec 24 j 11:37	1°♏08'57	inferior conj	1414 Jun 25 j 04:28	11°♏10'28 -4°13'55	
	1412 Jan 16 j 10:53	0°♏	minimum elong	1414 Jun 24 j 20:08	11°♏23'28 4°11'47	
			min. Earth dist.	1414 Jun 25 j 04:05	11°♏11'03 0.28985 AU	
superior conj	1412 Feb 04 j 02:54	23°♏23'32 -1°22'00	morning rise	1414 Jun 30 j 15:54	7°♏51'08	
minimum elong	1412 Feb 03 j 20:09	23°♏02'24 1°21'54	direct	1414 Jul 16 j 19:37	2°♏52'46	
max. Earth dist.	1412 Feb 08 j 03:25	28°♏25'20 1.71691 AU	greatest brilliancy	1414 Jul 27 j 09:50	4°♏52'58 -4.7m	
	1412 Feb 09 j 09:42	0°♏		1414 Aug 31 j 13:45	0°♏	
	1412 Mar 04 j 11:16	0°♏	morning max el	1414 Sep 04 j 01:16	3°♏20'31 46°06'12	
evening rise	1412 Mar 15 j 03:14	13°♏14'03	asc. node	1414 Sep 27 j 12:38	27°♏54'28	
	1412 Mar 28 j 16:46	0°♏		1414 Sep 29 j 09:57	0°♏	
asc. node	1412 Apr 11 j 17:36	17°♏15'53		1414 Oct 25 j 10:23	0°♏	
	1412 Apr 22 j 03:09	0°♏		1414 Nov 19 j 07:07	0°♏	
	1412 May 16 j 19:12	0°♏		1414 Dec 13 j 15:21	0°♏	
	1412 Jun 10 j 18:21	0°♏		1415 Jan 06 j 18:35	0°♏	
	1412 Jul 06 j 03:52	0°♏	desc. node	1415 Jan 17 j 02:03	12°♏50'49	
desc. node	1412 Aug 01 j 06:49	29°♏59'59		1415 Jan 30 j 20:30	0°♏	
	1412 Aug 01 j 06:49	0°♏		1415 Feb 23 j 23:00	0°♏	
	1412 Aug 28 j 20:48	0°♏	morning set	1415 Mar 10 j 16:20	18°♏17'00	
evening max el	1412 Sep 09 j 09:23	11°♏38'30 46°36'45		1415 Mar 20 j 03:10	0°♏	
	1412 Sep 30 j 01:35	0°♏		1415 Apr 13 j 09:40	0°♏	
greatest brilliancy	1412 Oct 19 j 19:27	11°♏32'56 -4.9m				
retrograde	1412 Oct 29 j 06:30	13°♏13'14	superior conj	1415 Apr 17 j 22:59	5°♏37'00 -0°49'42	
evening set	1412 Nov 12 j 17:48	9°♏07'04	minimum elong	1415 Apr 18 j 08:04	6°♏05'00 0°49'20	
inferior conj	1412 Nov 18 j 19:31	5°♏34'39 -0°56'16	max. Earth dist.	1415 Apr 20 j 02:23	8°♏15'24 1.73197 AU	
minimum elong	1412 Nov 18 j 21:40	5°♏31'22 0°55'34		1415 May 07 j 18:26	0°♏	
min. Earth dist.	1412 Nov 18 j 22:40	5°♏29'51 0.26430 AU	asc. node	1415 May 10 j 05:30	3°♏01'31	
asc. node	1412 Nov 22 j 10:08	3°♏24'42	evening rise	1415 May 25 j 02:13	21°♏16'32	
morning rise	1412 Nov 25 j 01:18	1°♏56'40		1415 Jun 01 j 04:58	0°♏	
	1412 Nov 29 j 04:52	30°♏		1415 Jun 25 j 16:56	0°♏	
direct	1412 Dec 09 j 05:20	27°♏57'13		1415 Jul 20 j 06:55	0°♏	
greatest brilliancy	1412 Dec 19 j 11:49	29°♏57'08 -4.9m		1415 Aug 14 j 00:26	0°♏	
	1412 Dec 19 j 14:53	0°♏	desc. node	1415 Aug 29 j 18:43	18°♏58'39	
	1413 Jan 27 j 18:12	0°♏		1415 Sep 07 j 23:42	0°♏	
morning max el	1413 Jan 28 j 15:39	0°♏53'47 46°50'05		1415 Oct 03 j 08:17	0°♏	

	1415 Oct 29 j 11:02	0° Z		morning set	1418 May 19 j 12:26	26° Z 15'18	
evening max el	1415 Nov 22 j 02:12	25° Z 27'01	47°20'35		1418 May 22 j 13:49	0° II	
	1415 Nov 26 j 15:03	0° \approx		asc. node	1418 Jun 06 j 17:23	18° II 34'28	
asc. node	1415 Dec 20 j 22:14	20° \approx 50'14			1418 Jun 16 j 00:45	0° G	
greatest brilliancy	1416 Jan 01 j 18:33	27° \approx 14'36	-4.9m	max. Earth dist.	1418 Jun 23 j 04:32	8° G 47'43	1.73534 AU
retrograde	1416 Jan 12 j 03:12	29° \approx 18'40					
evening set	1416 Jan 29 j 05:35	23° \approx 33'53		superior conj	1418 Jun 25 j 00:18	11° G 02'15	0°41'37
min. Earth dist.	1416 Feb 01 j 02:44	21° \approx 47'54	0.27403 AU	minimum elong	1418 Jun 24 j 16:52	10° G 39'25	0°41'17
inferior conj	1416 Feb 01 j 23:21	21° \approx 15'45	8°21'47		1418 Jul 10 j 09:51	0° Ω	
minimum elong	1416 Feb 01 j 16:58	21° \approx 25'43	8°21'08	evening rise	1418 Jul 30 j 19:20	25° Ω 10'11	
morning rise	1416 Feb 05 j 04:36	19° \approx 16'51			1418 Aug 03 j 17:08	0° W	
direct	1416 Feb 22 j 14:03	13° \approx 24'56			1418 Aug 27 j 23:32	0° $\underline{\Omega}$	
greatest brilliancy	1416 Mar 02 j 13:53	14° \approx 56'11	-4.8m		1418 Sep 21 j 06:18	0° M	
	1416 Mar 27 j 01:34	0° X		desc. node	1418 Sep 26 j 06:38	6° M 11'11	
desc. node	1416 Apr 10 j 11:24	12° X 57'29			1418 Oct 15 j 14:32	0° Z	
morning max el	1416 Apr 12 j 00:27	14° X 26'52	46°08'45		1418 Nov 09 j 01:36	0° Z	
	1416 Apr 27 j 08:29	0° Y			1418 Dec 03 j 18:59	0° \approx	
	1416 May 24 j 19:20	0° Z			1418 Dec 29 j 03:29	0° X	
	1416 Jun 19 j 23:02	0° II		asc. node	1419 Jan 17 j 09:57	21° X 45'17	
	1416 Jul 15 j 09:20	0° G			1419 Jan 25 j 02:04	0° Y	
asc. node	1416 Aug 01 j 14:59	20° G 42'58		evening max el	1419 Feb 01 j 19:56	7° Y 59'21	46°37'09
	1416 Aug 09 j 06:38	0° Ω			1419 Feb 26 j 18:18	0° Z	
	1416 Sep 02 j 17:26	0° W		greatest brilliancy	1419 Mar 13 j 04:56	8° Z 08'51	-4.8m
	1416 Sep 26 j 20:35	0° $\underline{\Omega}$		retrograde	1419 Mar 23 j 22:04	10° Z 16'09	
morning set	1416 Oct 06 j 12:15	12° $\underline{\Omega}$ 04'24		evening set	1419 Apr 09 j 06:24	5° Z 03'22	
	1416 Oct 20 j 19:13	0° M		inferior conj	1419 Apr 14 j 05:00	2° Z 00'20	5°26'37
	1416 Nov 13 j 15:51	0° Z		minimum elong	1419 Apr 14 j 14:29	1° Z 45'22	5°24'25
				min. Earth dist.	1419 Apr 14 j 05:21	1° Z 59'47	0.28662 AU
superior conj	1416 Nov 15 j 04:14	1° Z 54'27	0°14'18		1419 Apr 17 j 10:05	30° R Y	
minimum elong	1416 Nov 15 j 07:56	2° Z 06'06	0°14'08	morning rise	1419 Apr 19 j 22:56	28° Y 30'33	
behind sun begin	1416 Nov 14 j 18:43	1° Z 24'32		direct	1419 May 05 j 14:25	23° Y 47'49	
behind sun end	1416 Nov 15 j 21:09	2° Z 47'41		desc. node	1419 May 08 j 23:12	24° Y 00'48	
max. Earth dist.	1416 Nov 14 j 20:37	1° Z 30'31	1.71120 AU	greatest brilliancy	1419 May 15 j 11:29	25° Y 34'22	-4.7m
desc. node	1416 Nov 21 j 04:22	9° Z 27'57			1419 May 24 j 21:17	0° Z	
	1416 Dec 07 j 12:06	0° Z		morning max el	1419 Jun 23 j 08:20	23° Z 35'00	45°43'45
evening rise	1416 Dec 26 j 16:59	24° Z 08'10			1419 Jun 29 j 22:21	0° II	
	1416 Dec 31 j 09:07	0° \approx			1419 Jul 28 j 06:08	0° G	
	1417 Jan 24 j 08:19	0° X			1419 Aug 23 j 12:09	0° Ω	
	1417 Feb 17 j 11:50	0° Y		asc. node	1419 Aug 30 j 02:49	7° Ω 46'59	
	1417 Mar 13 j 22:30	0° Z			1419 Sep 17 j 15:57	0° W	
asc. node	1417 Mar 14 j 07:45	0° Z 28'12			1419 Oct 12 j 03:41	0° $\underline{\Omega}$	
	1417 Apr 07 j 19:45	0° II			1419 Nov 05 j 06:08	0° M	
	1417 May 03 j 08:55	0° G			1419 Nov 29 j 04:09	0° Z	
	1417 May 30 j 01:31	0° Ω		desc. node	1419 Dec 19 j 16:13	25° Z 46'34	
evening max el	1417 Jun 25 j 22:35	27° Ω 40'15	45°31'04	morning set	1419 Dec 21 j 21:11	28° Z 33'03	
	1417 Jun 28 j 09:45	0° W			1419 Dec 23 j 00:51	0° Z	
desc. node	1417 Jul 03 j 21:04	4° W 59'30			1420 Jan 15 j 21:59	0° \approx	
greatest brilliancy	1417 Aug 04 j 03:12	25° W 41'20	-4.8m				
retrograde	1417 Aug 13 j 15:45	27° W 19'00		superior conj	1420 Feb 01 j 13:54	20° \approx 53'12	-1°20'46
evening set	1417 Aug 31 j 15:48	21° W 17'19		minimum elong	1420 Feb 01 j 06:16	20° \approx 29'19	1°20'38
inferior conj	1417 Sep 03 j 18:22	19° W 23'47	-8°41'57	max. Earth dist.	1420 Feb 05 j 13:17	25° \approx 51'34	1.71638 AU
minimum elong	1417 Sep 03 j 20:52	19° W 19'56	8°41'52		1420 Feb 08 j 20:44	0° X	
min. Earth dist.	1417 Sep 04 j 11:35	18° W 57'16	0.28126 AU		1420 Mar 03 j 22:16	0° Y	
morning rise	1417 Sep 07 j 01:46	17° W 22'47		evening rise	1420 Mar 12 j 16:27	10° Y 52'11	
direct	1417 Sep 25 j 01:08	11° W 18'21			1420 Mar 28 j 03:48	0° Z	
greatest brilliancy	1417 Oct 06 j 02:25	13° W 34'48	-4.8m	asc. node	1420 Apr 10 j 19:43	16° Z 48'17	
asc. node	1417 Oct 25 j 00:22	25° W 19'05			1420 Apr 21 j 14:19	0° II	
	1417 Oct 30 j 14:05	0° $\underline{\Omega}$			1420 May 16 j 06:42	0° G	
morning max el	1417 Nov 14 j 15:31	14° $\underline{\Omega}$ 21'27	46°48'06		1420 Jun 10 j 06:26	0° Ω	
	1417 Nov 29 j 09:16	0° M			1420 Jul 05 j 17:01	0° W	
	1417 Dec 25 j 15:23	0° Z		desc. node	1420 Jul 31 j 08:47	29° W 22'47	
	1418 Jan 19 j 18:54	0° Z			1420 Jul 31 j 22:04	0° $\underline{\Omega}$	
desc. node	1418 Feb 13 j 13:47	0° \approx 04'57			1420 Aug 28 j 16:59	0° M	
	1418 Feb 13 j 12:10	0° \approx		evening max el	1420 Sep 06 j 21:22	9° M 12'26	46°34'03
	1418 Mar 10 j 01:31	0° X			1420 Sep 30 j 20:37	0° Z	
	1418 Apr 03 j 13:42	0° Y		greatest brilliancy	1420 Oct 17 j 08:59	9° Z 05'22	-4.9m
	1418 Apr 28 j 01:50	0° Z		retrograde	1420 Oct 26 j 17:53	10° Z 44'05	

evening set	1420 Nov 10 j 07:16	6°♊35'49		minimum elong	1423 Apr 16 j 00:18	3°♋53'11	0°52'03
inferior conj	1420 Nov 16 j 07:36	3°♊05'42	-1°20'48	max. Earth dist.	1423 Apr 17 j 21:07	6°♋11'22	1.73157 AU
minimum elong	1420 Nov 16 j 10:41	3°♊01'01	1°19'48		1423 May 07 j 05:24	0°♋	
min. Earth dist.	1420 Nov 16 j 12:46	2°♊57'51	0.26454 AU	asc. node	1423 May 09 j 07:36	2°♋34'15	
asc. node	1420 Nov 21 j 12:19	0°♊01'34		evening rise	1423 May 22 j 20:25	19°♋11'23	
	1420 Nov 21 j 13:27	30°♋			1423 May 31 j 16:00	0°♋	
morning rise	1420 Nov 22 j 13:43	29°♋27'08			1423 Jun 25 j 04:10	0°♋	
direct	1420 Dec 06 j 17:06	25°♋27'23			1423 Jul 19 j 18:31	0°♋	
greatest brilliancy	1420 Dec 17 j 02:36	27°♋29'49	-4.9m		1423 Aug 13 j 12:36	0°♋	
	1420 Dec 22 j 14:16	0°♊		desc. node	1423 Aug 28 j 20:46	18°♋26'51	
morning max el	1421 Jan 26 j 04:25	28°♊26'16	46°51'11		1423 Sep 07 j 12:45	0°♋	
	1421 Jan 27 j 17:28	0°♋			1423 Oct 02 j 22:46	0°♊	
	1421 Feb 24 j 12:35	0°♋			1423 Oct 29 j 04:21	0°♋	
desc. node	1421 Mar 13 j 01:46	18°♋54'02		evening max el	1423 Nov 19 j 17:30	23°♋05'56	47°20'27
	1421 Mar 22 j 15:00	0°♋			1423 Nov 26 j 16:18	0°♋	
	1421 Apr 17 j 01:32	0°♋		asc. node	1423 Dec 20 j 00:08	19°♋24'43	
	1421 May 12 j 04:19	0°♋		greatest brilliancy	1423 Dec 30 j 08:10	24°♋48'53	-4.9m
	1421 Jun 06 j 02:00	0°♋		retrograde	1424 Jan 09 j 17:55	26°♋53'36	
	1421 Jun 30 j 18:46	0°♋		evening set	1424 Jan 26 j 15:49	21°♋14'28	
asc. node	1421 Jul 04 j 05:11	4°♋11'35		min. Earth dist.	1424 Jan 29 j 15:32	19°♋24'46	0.27345 AU
	1421 Jul 25 j 06:07	0°♋		inferior conj	1424 Jan 30 j 12:59	18°♋51'21	8°14'19
morning set	1421 Jul 26 j 03:05	1°♋04'35		minimum elong	1424 Jan 30 j 05:55	19°♋02'21	8°13'32
	1421 Aug 18 j 12:17	0°♋		morning rise	1424 Feb 02 j 20:21	16°♋49'34	
max. Earth dist.	1421 Aug 28 j 07:10	12°♋10'00	1.72379 AU	direct	1424 Feb 20 j 03:43	11°♋01'35	
				greatest brilliancy	1424 Feb 29 j 02:15	12°♋32'16	-4.8m
superior conj	1421 Aug 31 j 19:21	16°♋32'04	1°24'32		1424 Mar 27 j 10:10	0°♋	
minimum elong	1421 Aug 31 j 20:53	16°♋36'48	1°24'31	morning max el	1424 Apr 09 j 15:21	12°♋09'48	46°10'12
	1421 Sep 11 j 14:36	0°♋		desc. node	1424 Apr 09 j 13:32	12°♋05'24	
	1421 Oct 05 j 14:52	0°♋			1424 Apr 27 j 02:58	0°♋	
evening rise	1421 Oct 08 j 24:00	4°♋13'37			1424 May 24 j 10:00	0°♋	
desc. node	1421 Oct 23 j 18:39	22°♋42'28			1424 Jun 19 j 11:58	0°♋	
	1421 Oct 29 j 14:34	0°♋			1424 Jul 14 j 21:20	0°♋	
	1421 Nov 22 j 14:40	0°♋		asc. node	1424 Jul 31 j 16:56	20°♋13'42	
	1421 Dec 16 j 16:22	0°♋			1424 Aug 08 j 18:07	0°♋	
	1422 Jan 09 j 22:20	0°♋			1424 Sep 02 j 04:41	0°♋	
	1422 Feb 03 j 13:35	0°♋			1424 Sep 26 j 07:44	0°♋	
asc. node	1422 Feb 13 j 21:49	12°♋21'42		morning set	1424 Oct 04 j 02:38	9°♋44'25	
	1422 Feb 28 j 22:50	0°♋			1424 Oct 20 j 06:20	0°♋	
	1422 Mar 27 j 19:51	0°♋		max. Earth dist.	1424 Nov 12 j 04:39	28°♋49'46	1.71134 AU
evening max el	1422 Apr 13 j 14:23	17°♋08'10	45°33'28				
	1422 Apr 27 j 18:53	0°♋		superior conj	1424 Nov 12 j 15:20	29°♋23'22	0°18'07
greatest brilliancy	1422 May 21 j 10:36	15°♋04'16	-4.7m	minimum elong	1424 Nov 12 j 19:58	29°♋37'55	0°17'53
retrograde	1422 Jun 01 j 08:51	17°♋13'34			1424 Nov 13 j 02:59	0°♋	
desc. node	1422 Jun 05 j 11:15	16°♋53'34		desc. node	1424 Nov 20 j 06:28	8°♋59'28	
evening set	1422 Jun 16 j 15:07	12°♋44'57			1424 Dec 06 j 23:17	0°♋	
inferior conj	1422 Jun 22 j 20:51	9°♋01'15	-3°56'26	evening rise	1424 Dec 24 j 03:16	21°♋34'28	
minimum elong	1422 Jun 22 j 12:57	9°♋13'34	3°54'22		1424 Dec 30 j 20:22	0°♋	
min. Earth dist.	1422 Jun 22 j 20:14	9°♋02'14	0.28987 AU		1425 Jan 23 j 19:40	0°♋	
morning rise	1422 Jun 28 j 10:38	5°♋38'53			1425 Feb 16 j 23:23	0°♋	
direct	1422 Jul 14 j 11:58	0°♋43'23		asc. node	1425 Mar 13 j 09:51	29°♋58'29	
greatest brilliancy	1422 Jul 25 j 01:59	2°♋43'40	-4.7m		1425 Mar 13 j 10:21	0°♋	
	1422 Aug 31 j 12:52	0°♋			1425 Apr 07 j 08:13	0°♋	
morning max el	1422 Sep 01 j 17:44	1°♋09'53	46°04'56		1425 May 02 j 22:37	0°♋	
asc. node	1422 Sep 26 j 14:42	27°♋15'04			1425 May 29 j 17:57	0°♋	
	1422 Sep 29 j 01:58	0°♋		evening max el	1425 Jun 23 j 13:32	25°♋26'09	45°29'48
	1422 Oct 25 j 00:05	0°♋			1425 Jun 28 j 10:37	0°♋	
	1422 Nov 18 j 19:47	0°♋		desc. node	1425 Jul 02 j 23:01	4°♋02'30	
	1422 Dec 13 j 03:30	0°♋		greatest brilliancy	1425 Aug 01 j 16:30	23°♋24'38	-4.7m
	1423 Jan 06 j 06:23	0°♋		retrograde	1425 Aug 11 j 05:20	25°♋02'27	
desc. node	1423 Jan 16 j 03:59	12°♋20'27		evening set	1425 Aug 29 j 06:18	19°♋00'35	
	1423 Jan 30 j 08:03	0°♋		inferior conj	1425 Sep 01 j 08:57	17°♋06'41	-8°43'37
	1423 Feb 23 j 10:19	0°♋		minimum elong	1425 Sep 01 j 10:36	17°♋04'08	8°43'35
morning set	1423 Mar 08 j 05:40	15°♋54'35		min. Earth dist.	1425 Sep 02 j 01:34	16°♋41'02	0.28182 AU
	1423 Mar 19 j 14:19	0°♋		morning rise	1425 Sep 04 j 14:44	15°♋07'45	
	1423 Apr 12 j 20:41	0°♋		direct	1425 Sep 22 j 16:18	9°♋00'34	
				greatest brilliancy	1425 Oct 03 j 17:06	11°♋15'55	-4.8m
superior conj	1423 Apr 15 j 14:56	3°♋24'18	-0°52'26	asc. node	1425 Oct 24 j 02:29	24°♋10'55	

	1425 Oct 30 j 19:52	0°♄			1428 May 15 j 18:12	0°♄		
morning max el	1425 Nov 12 j 05:14	11°♄57'40	46°47'04		1428 Jun 09 j 18:34	0°♄		
	1425 Nov 29 j 03:20	0°♄			1428 Jul 05 j 06:18	0°♄		
	1425 Dec 25 j 06:09	0°♄		desc. node	1428 Jul 30 j 10:52	28°♄45'36		
	1426 Jan 19 j 08:09	0°♄			1428 Jul 31 j 13:33	0°♄		
desc. node	1426 Feb 12 j 15:53	29°♄33'35			1428 Aug 28 j 13:46	0°♄		
	1426 Feb 13 j 00:33	0°♄		evening max el	1428 Sep 04 j 09:35	6°♄47'25	46°31'36	
	1426 Mar 09 j 13:20	0°♄			1428 Oct 01 j 22:05	0°♄		
	1426 Apr 03 j 01:09	0°♄		greatest brilliancy	1428 Oct 14 j 22:02	6°♄37'54	-4.9m	
	1426 Apr 27 j 13:00	0°♄		retrograde	1428 Oct 24 j 05:47	8°♄15'50		
morning set	1426 May 17 j 06:17	24°♄09'21		evening set	1428 Nov 07 j 20:58	4°♄04'53		
	1426 May 22 j 00:46	0°♄		inferior conj	1428 Nov 13 j 19:45	0°♄37'21	-1°45'00	
asc. node	1426 Jun 05 j 19:23	18°♄07'09		minimum elong	1428 Nov 13 j 23:43	0°♄31'18	1°43'43	
	1426 Jun 15 j 11:37	0°♄		min. Earth dist.	1428 Nov 14 j 02:37	0°♄26'55	0.26482 AU	
max. Earth dist.	1426 Jun 21 j 00:12	6°♄47'19	1.73549 AU		1428 Nov 14 j 20:21	30°♄		
				morning rise	1428 Nov 20 j 02:01	26°♄58'46		
superior conj	1426 Jun 22 j 18:42	8°♄57'55	0°38'51	asc. node	1428 Nov 20 j 14:18	26°♄42'42		
minimum elong	1426 Jun 22 j 11:38	8°♄36'12	0°38'33	direct	1428 Dec 04 j 05:26	22°♄58'06		
	1426 Jul 09 j 20:44	0°♄		greatest brilliancy	1428 Dec 14 j 17:10	25°♄02'58	-4.9m	
evening rise	1426 Jul 28 j 13:28	23°♄04'06			1428 Dec 24 j 08:58	0°♄		
	1426 Aug 03 j 04:08	0°♄		morning max el	1429 Jan 23 j 18:20	26°♄02'08	46°52'12	
	1426 Aug 27 j 10:46	0°♄			1429 Jan 27 j 15:36	0°♄		
	1426 Sep 20 j 17:52	0°♄			1429 Feb 24 j 04:44	0°♄		
desc. node	1426 Sep 25 j 08:47	5°♄41'53		desc. node	1429 Mar 12 j 03:52	18°♄18'19		
	1426 Oct 15 j 02:32	0°♄			1429 Mar 22 j 04:43	0°♄		
	1426 Nov 08 j 14:13	0°♄			1429 Apr 16 j 13:57	0°♄		
	1426 Dec 03 j 08:31	0°♄			1429 May 11 j 15:58	0°♄		
	1426 Dec 28 j 18:44	0°♄			1429 Jun 05 j 13:11	0°♄		
asc. node	1427 Jan 16 j 11:59	21°♄02'18			1429 Jun 30 j 05:41	0°♄		
	1427 Jan 24 j 21:42	0°♄		asc. node	1429 Jul 03 j 07:11	3°♄44'28		
evening max el	1427 Jan 30 j 10:08	5°♄39'42	46°39'30	morning set	1429 Jul 23 j 20:38	28°♄57'36		
	1427 Feb 27 j 15:42	0°♄			1429 Jul 24 j 16:54	0°♄		
greatest brilliancy	1427 Mar 10 j 22:31	5°♄58'02	-4.8m		1429 Aug 17 j 23:03	0°♄		
retrograde	1427 Mar 21 j 13:55	8°♄04'08		max. Earth dist.	1429 Aug 26 j 00:56	10°♄02'21	1.72432 AU	
evening set	1427 Apr 07 j 01:18	2°♄47'35						
inferior conj	1427 Apr 11 j 21:09	29°♄48'34	5°42'15	superior conj	1429 Aug 29 j 11:49	14°♄20'14	1°24'43	
minimum elong	1427 Apr 12 j 06:47	29°♄33'20	5°40'06	minimum elong	1429 Aug 29 j 12:35	14°♄22'36	1°24'43	
	1427 Apr 11 j 13:56	30°♄			1429 Sep 11 j 01:25	0°♄		
min. Earth dist.	1427 Apr 11 j 21:34	29°♄47'54	0.28640 AU		1429 Oct 05 j 01:49	0°♄		
morning rise	1427 Apr 17 j 12:34	26°♄21'59		evening rise	1429 Oct 06 j 13:11	1°♄50'31		
direct	1427 May 03 j 05:37	21°♄36'25		desc. node	1429 Oct 22 j 20:41	22°♄14'08		
desc. node	1427 May 08 j 01:19	22°♄02'39			1429 Oct 29 j 01:43	0°♄		
greatest brilliancy	1427 May 13 j 02:47	23°♄22'34	-4.7m		1429 Nov 22 j 02:01	0°♄		
	1427 May 26 j 02:01	0°♄			1429 Dec 16 j 03:58	0°♄		
morning max el	1427 Jun 20 j 23:12	21°♄22'04	45°43'49		1430 Jan 09 j 10:20	0°♄		
	1427 Jun 29 j 18:19	0°♄			1430 Feb 03 j 02:17	0°♄		
	1427 Jul 27 j 21:06	0°♄		asc. node	1430 Feb 12 j 23:58	11°♄49'09		
	1427 Aug 23 j 01:11	0°♄			1430 Feb 28 j 12:55	0°♄		
asc. node	1427 Aug 29 j 05:00	7°♄15'47			1430 Mar 27 j 13:18	0°♄		
	1427 Sep 17 j 04:03	0°♄		evening max el	1430 Apr 11 j 06:46	14°♄58'51	45°35'03	
	1427 Oct 11 j 15:19	0°♄			1430 Apr 28 j 02:18	0°♄		
	1427 Nov 04 j 17:30	0°♄		greatest brilliancy	1430 May 19 j 01:48	12°♄55'02	-4.7m	
	1427 Nov 28 j 15:23	0°♄		retrograde	1430 May 30 j 01:47	15°♄05'39		
desc. node	1427 Dec 18 j 18:10	25°♄17'30		desc. node	1430 Jun 04 j 13:09	14°♄29'51		
morning set	1427 Dec 19 j 06:52	25°♄57'26		evening set	1430 Jun 14 j 06:17	10°♄38'27		
	1427 Dec 22 j 12:01	0°♄		inferior conj	1430 Jun 20 j 13:13	6°♄52'51	-3°38'40	
	1428 Jan 15 j 09:04	0°♄		minimum elong	1430 Jun 20 j 05:47	7°♄04'26	3°36'41	
				min. Earth dist.	1430 Jun 20 j 12:09	6°♄54'31	0.28990 AU	
superior conj	1428 Jan 30 j 00:59	18°♄23'10	-1°19'21	morning rise	1430 Jun 26 j 05:14	3°♄27'33		
minimum elong	1428 Jan 29 j 16:32	17°♄56'46	1°19'12		1430 Jul 03 j 17:59	30°♄		
max. Earth dist.	1428 Feb 02 j 20:18	23°♄09'01	1.71586 AU	direct	1430 Jul 12 j 04:47	28°♄34'58		
	1428 Feb 08 j 07:44	0°♄			1430 Jul 21 j 00:19	0°♄		
	1428 Mar 03 j 09:12	0°♄		greatest brilliancy	1430 Jul 22 j 17:33	0°♄34'35	-4.7m	
evening rise	1428 Mar 10 j 05:45	8°♄30'40		morning max el	1430 Aug 30 j 10:25	29°♄00'33	46°03'29	
	1428 Mar 27 j 14:46	0°♄			1430 Aug 31 j 10:48	0°♄		
asc. node	1428 Apr 09 j 21:49	16°♄20'51		asc. node	1430 Sep 25 j 16:48	26°♄36'39		
	1428 Apr 21 j 01:28	0°♄			1430 Sep 28 j 17:33	0°♄		

	1430 Oct 24 j 13:30	0°♄			1433 Jun 28 j 12:19	0°♍	
	1430 Nov 18 j 08:12	0°♌		desc. node	1433 Jul 02 j 01:11	3°♍05'55	
	1430 Dec 12 j 15:21	0°♏		greatest brilliancy	1433 Jul 30 j 06:04	21°♍09'41	-4.7m
	1431 Jan 05 j 17:51	0°♎		retrograde	1433 Aug 08 j 18:52	22°♍47'48	
desc. node	1431 Jan 15 j 06:06	11°♎51'37		evening set	1433 Aug 26 j 20:28	16°♍46'16	
	1431 Jan 29 j 19:14	0°♏		inferior conj	1433 Aug 29 j 23:42	14°♍51'26	-8°44'17
	1431 Feb 22 j 21:18	0°♏		minimum elong	1433 Aug 30 j 00:29	14°♍50'13	8°44'17
morning set	1431 Mar 05 j 18:53	13°♏32'45		min. Earth dist.	1433 Aug 30 j 15:53	14°♍26'25	0.28239 AU
	1431 Mar 19 j 01:09	0°♑		morning rise	1433 Sep 02 j 04:20	12°♍54'01	
	1431 Apr 12 j 07:24	0°♑		direct	1433 Sep 20 j 07:11	6°♍44'26	
				greatest brilliancy	1433 Oct 01 j 08:29	8°♍59'29	-4.8m
superior conj	1431 Apr 13 j 06:51	1°♑12'19	-0°55'04	asc. node	1433 Oct 23 j 04:29	23°♍05'30	
minimum elong	1431 Apr 13 j 16:28	1°♑41'58	0°54'43		1433 Oct 30 j 23:17	0°♄	
max. Earth dist.	1431 Apr 15 j 17:00	4°♑11'42	1.73116 AU	morning max el	1433 Nov 09 j 18:33	9°♄33'53	46°45'50
	1431 May 06 j 16:04	0°♑			1433 Nov 28 j 20:43	0°♌	
asc. node	1431 May 08 j 09:36	2°♑07'37			1433 Dec 24 j 20:32	0°♏	
evening rise	1431 May 20 j 14:39	17°♑07'22			1434 Jan 18 j 21:08	0°♎	
	1431 May 31 j 02:42	0°♏		desc. node	1434 Feb 11 j 18:02	29°♎03'01	
	1431 Jun 24 j 15:04	0°♏			1434 Feb 12 j 12:42	0°♏	
	1431 Jul 19 j 05:49	0°♍			1434 Mar 09 j 00:54	0°♏	
	1431 Aug 13 j 00:32	0°♄			1434 Apr 02 j 12:17	0°♑	
desc. node	1431 Aug 27 j 22:53	17°♄55'58			1434 Apr 26 j 23:50	0°♑	
	1431 Sep 07 j 01:38	0°♌		morning set	1434 May 15 j 00:01	22°♑03'55	
	1431 Oct 02 j 13:13	0°♏			1434 May 21 j 11:25	0°♑	
	1431 Oct 28 j 21:47	0°♎		asc. node	1434 Jun 04 j 21:25	17°♑40'48	
evening max el	1431 Nov 17 j 09:13	20°♎46'28	47°20'19		1434 Jun 14 j 22:12	0°♏	
	1431 Nov 26 j 18:38	0°♏		max. Earth dist.	1434 Jun 18 j 19:34	4°♏46'49	1.73563 AU
asc. node	1431 Dec 19 j 02:13	17°♏57'18					
greatest brilliancy	1431 Dec 27 j 22:09	22°♏24'23	-4.9m	superior conj	1434 Jun 20 j 13:13	6°♏54'48	0°36'03
retrograde	1432 Jan 07 j 08:25	24°♏29'02		minimum elong	1434 Jun 20 j 06:32	6°♏34'18	0°35'45
evening set	1432 Jan 24 j 01:55	18°♏56'08			1434 Jul 09 j 07:20	0°♏	
min. Earth dist.	1432 Jan 27 j 04:27	17°♏02'12	0.27282 AU	evening rise	1434 Jul 26 j 07:55	20°♏59'53	
inferior conj	1432 Jan 28 j 02:35	16°♏27'45	8°06'01		1434 Aug 02 j 14:53	0°♍	
minimum elong	1432 Jan 27 j 18:53	16°♏39'44	8°05'04		1434 Aug 26 j 21:44	0°♄	
morning rise	1432 Jan 31 j 12:12	14°♏22'40			1434 Sep 20 j 05:09	0°♌	
direct	1432 Feb 17 j 17:19	8°♏39'16		desc. node	1434 Sep 24 j 10:49	5°♌13'09	
greatest brilliancy	1432 Feb 26 j 14:40	10°♏09'11	-4.8m		1434 Oct 14 j 14:18	0°♏	
	1432 Mar 27 j 15:54	0°♏			1434 Nov 08 j 02:38	0°♎	
morning max el	1432 Apr 07 j 05:34	9°♏52'06	46°11'34		1434 Dec 02 j 21:57	0°♏	
desc. node	1432 Apr 08 j 15:36	11°♏15'16			1434 Dec 28 j 10:03	0°♏	
	1432 Apr 26 j 20:36	0°♑		asc. node	1435 Jan 15 j 14:08	20°♏19'24	
	1432 May 24 j 00:07	0°♑			1435 Jan 24 j 17:51	0°♑	
	1432 Jun 19 j 00:26	0°♑		evening max el	1435 Jan 28 j 00:01	3°♑19'18	46°41'56
	1432 Jul 14 j 08:56	0°♏			1435 Feb 28 j 21:19	0°♑	
asc. node	1432 Jul 30 j 19:10	19°♏46'22		greatest brilliancy	1435 Mar 08 j 15:40	3°♑46'34	-4.8m
	1432 Aug 08 j 05:14	0°♏		retrograde	1435 Mar 19 j 05:47	5°♑52'11	
	1432 Sep 01 j 15:34	0°♍		evening set	1435 Apr 04 j 20:06	0°♑31'29	
	1432 Sep 25 j 18:34	0°♄			1435 Apr 05 j 17:14	30°♑♑	
morning set	1432 Oct 01 j 16:59	7°♄25'15		inferior conj	1435 Apr 09 j 13:12	27°♑36'46	5°57'24
	1432 Oct 19 j 17:11	0°♌		minimum elong	1435 Apr 09 j 22:54	27°♑21'25	5°55'19
max. Earth dist.	1432 Nov 09 j 08:35	25°♌56'56	1.71155 AU	min. Earth dist.	1435 Apr 09 j 13:38	27°♑36'05	0.28615 AU
				morning rise	1435 Apr 15 j 01:57	24°♑13'50	
superior conj	1432 Nov 10 j 02:16	26°♌52'31	0°21'55	direct	1435 Apr 30 j 20:31	19°♑24'51	
minimum elong	1432 Nov 10 j 07:46	27°♌09'48	0°21'39	desc. node	1435 May 07 j 03:16	20°♑08'55	
	1432 Nov 12 j 13:53	0°♏		greatest brilliancy	1435 May 10 j 18:10	21°♑11'13	-4.7m
desc. node	1432 Nov 19 j 08:27	8°♏31'19			1435 May 26 j 22:41	0°♑	
	1432 Dec 06 j 10:14	0°♎		morning max el	1435 Jun 18 j 14:30	19°♑10'46	45°44'02
evening rise	1432 Dec 21 j 13:00	18°♎59'46			1435 Jun 29 j 13:28	0°♑	
	1432 Dec 30 j 07:22	0°♏			1435 Jul 27 j 11:39	0°♏	
	1433 Jan 23 j 06:45	0°♏			1435 Aug 22 j 13:55	0°♏	
	1433 Feb 16 j 10:37	0°♑		asc. node	1435 Aug 28 j 06:58	6°♏44'43	
asc. node	1433 Mar 12 j 11:57	29°♑29'43			1435 Sep 16 j 15:54	0°♍	
	1433 Mar 12 j 21:54	0°♑			1435 Oct 11 j 02:42	0°♄	
	1433 Apr 06 j 20:24	0°♑			1435 Nov 04 j 04:39	0°♌	
	1433 May 02 j 12:05	0°♏			1435 Nov 28 j 02:25	0°♏	
	1433 May 29 j 10:18	0°♏		morning set	1435 Dec 16 j 16:47	23°♏23'06	
evening max el	1433 Jun 21 j 03:48	23°♏11'33	45°28'37	desc. node	1435 Dec 17 j 20:17	24°♏49'37	

	1435 Dec 21 j 23:00	0°☾	inferior conj	1438 Jun 18 j 05:37	4°☾44'05 -3°20'38
	1436 Jan 14 j 20:01	0°♊	minimum elong	1438 Jun 17 j 22:42	4°☾54'53 3°18'45
			min. Earth dist.	1438 Jun 18 j 04:12	4°☾46'18 0.28989 AU
superior conj	1436 Jan 27 j 11:46	15°♊52'29 -1°17'46	morning rise	1438 Jun 23 j 23:44	1°☾15'50
minimum elong	1436 Jan 27 j 02:35	15°♊23'44 1°17'35		1438 Jun 26 j 08:39	30°♊II
max. Earth dist.	1436 Jan 31 j 01:14	20°♊20'08 1.71542 AU	direct	1438 Jul 09 j 21:48	26°II26'24
	1436 Feb 07 j 18:38	0°♋	greatest brilliancy	1438 Jul 20 j 08:52	28°II24'48 -4.7m
	1436 Mar 02 j 20:04	0°♌		1438 Jul 24 j 04:58	0°☾
evening rise	1436 Mar 07 j 18:35	6°♌07'52	morning max el	1438 Aug 28 j 02:22	26°☾49'17 46°02'01
	1436 Mar 27 j 01:41	0°♍		1438 Aug 31 j 08:02	0°♎
asc. node	1436 Apr 08 j 23:46	15°♍53'10	asc. node	1438 Sep 24 j 18:49	25°♎58'05
	1436 Apr 20 j 12:32	0°♎		1438 Sep 28 j 08:59	0°♏
	1436 May 15 j 05:37	0°☾		1438 Oct 24 j 02:55	0°♐
	1436 Jun 09 j 06:39	0°♏		1438 Nov 17 j 20:41	0°♑
	1436 Jul 04 j 19:34	0°♒		1438 Dec 12 j 03:17	0°♓
desc. node	1436 Jul 29 j 13:00	28°♒08'28		1439 Jan 05 j 05:26	0°♊
	1436 Jul 31 j 05:10	0°♐	desc. node	1439 Jan 14 j 08:12	11°♊22'24
	1436 Aug 28 j 11:10	0°♑		1439 Jan 29 j 06:32	0°♋
evening max el	1436 Sep 01 j 22:55	4°♑25'48 46°29'12		1439 Feb 22 j 08:24	0°♌
	1436 Oct 03 j 09:16	0°♓	morning set	1439 Mar 03 j 08:19	11°♌11'09
greatest brilliancy	1436 Oct 12 j 10:38	4°♓10'55 -4.9m		1439 Mar 18 j 12:05	0°♍
retrograde	1436 Oct 21 j 18:18	5°♓48'42			
evening set	1436 Nov 05 j 11:04	1°♓34'54	superior conj	1439 Apr 10 j 22:50	29°♌00'04 -0°57'37
	1436 Nov 08 j 06:32	30°♌II	minimum elong	1439 Apr 11 j 08:37	29°♌30'17 0°57'16
inferior conj	1436 Nov 11 j 08:02	28°♌09'57 -2°08'46		1439 Apr 11 j 18:15	0°♍
minimum elong	1436 Nov 11 j 12:52	28°♌02'36 2°07'15	max. Earth dist.	1439 Apr 13 j 14:20	2°♍15'58 1.73076 AU
min. Earth dist.	1436 Nov 11 j 16:12	27°♌57'34 0.26511 AU		1439 May 06 j 02:54	0°♎
morning rise	1436 Nov 17 j 14:15	24°♌31'51	asc. node	1439 May 07 j 11:41	1°♎40'44
asc. node	1436 Nov 19 j 16:19	23°♌28'58	evening rise	1439 May 18 j 08:47	15°♎02'26
direct	1436 Dec 01 j 18:33	20°♌30'02		1439 May 30 j 13:37	0°☾
greatest brilliancy	1436 Dec 12 j 07:15	22°♌36'29 -4.9m		1439 Jun 24 j 02:12	0°♏
	1436 Dec 25 j 14:01	0°♓		1439 Jul 18 j 17:20	0°♐
morning max el	1437 Jan 21 j 08:55	23°♓40'12 46°52'59		1439 Aug 12 j 12:42	0°♑
	1437 Jan 27 j 12:44	0°♊	desc. node	1439 Aug 27 j 00:52	17°♑24'00
	1437 Feb 23 j 20:32	0°♋		1439 Sep 06 j 14:48	0°♒
desc. node	1437 Mar 11 j 05:52	17°♋42'37		1439 Oct 02 j 04:01	0°♓
	1437 Mar 21 j 18:18	0°♌		1439 Oct 28 j 15:52	0°♊
	1437 Apr 16 j 02:21	0°♍	evening max el	1439 Nov 15 j 00:17	18°♊24'34 47°19'55
	1437 May 11 j 03:38	0°♎		1439 Nov 26 j 22:53	0°♋
	1437 Jun 05 j 00:23	0°♎	asc. node	1439 Dec 18 j 04:24	16°♋26'01
	1437 Jun 29 j 16:35	0°☾	greatest brilliancy	1439 Dec 25 j 12:45	19°♋59'35 -4.9m
asc. node	1437 Jul 02 j 09:21	3°☾17'50	retrograde	1440 Jan 04 j 22:24	22°♋03'15
morning set	1437 Jul 21 j 14:16	26°☾50'59	evening set	1440 Jan 21 j 11:52	16°♋37'01
	1437 Jul 24 j 03:40	0°♏	min. Earth dist.	1440 Jan 24 j 17:48	14°♋38'01 0.27218 AU
	1437 Aug 17 j 09:48	0°♐	inferior conj	1440 Jan 25 j 16:06	14°♋03'14 7°56'50
max. Earth dist.	1437 Aug 23 j 18:08	7°♐53'06 1.72483 AU	minimum elong	1440 Jan 25 j 07:50	14°♋16'08 7°55'41
			morning rise	1440 Jan 29 j 04:11	11°♋54'26
superior conj	1437 Aug 27 j 04:27	12°♐09'04 1°24'46	direct	1440 Feb 15 j 06:27	6°♋16'01
minimum elong	1437 Aug 27 j 04:29	12°♐09'08 1°24'47	greatest brilliancy	1440 Feb 24 j 03:38	7°♋45'38 -4.8m
	1437 Sep 10 j 12:16	0°♑		1440 Mar 27 j 19:58	0°♌
evening rise	1437 Oct 04 j 02:40	29°♑28'14	morning max el	1440 Apr 04 j 18:43	7°♌30'56 46°13'05
	1437 Oct 04 j 12:50	0°♒	desc. node	1440 Apr 07 j 17:36	10°♌25'14
desc. node	1437 Oct 21 j 22:40	21°♒45'34		1440 Apr 26 j 14:03	0°♍
	1437 Oct 28 j 12:54	0°♓		1440 May 23 j 14:17	0°♎
	1437 Nov 21 j 13:24	0°♊		1440 Jun 18 j 13:06	0°♎
	1437 Dec 15 j 15:36	0°♋		1440 Jul 13 j 20:46	0°☾
	1438 Jan 08 j 22:22	0°♌	asc. node	1440 Jul 29 j 21:09	19°☾17'27
	1438 Feb 02 j 15:04	0°♍		1440 Aug 07 j 16:38	0°♏
asc. node	1438 Feb 12 j 02:00	11°♍16'05		1440 Sep 01 j 02:44	0°♐
	1438 Feb 28 j 03:11	0°♎		1440 Sep 25 j 05:39	0°♑
	1438 Mar 27 j 07:15	0°♎	morning set	1440 Sep 29 j 07:23	5°♑05'28
evening max el	1438 Apr 08 j 23:43	12°♎50'27 45°36'32		1440 Oct 19 j 04:17	0°♒
	1438 Apr 28 j 12:44	0°☾	max. Earth dist.	1440 Nov 06 j 12:29	23°♒03'18 1.71181 AU
greatest brilliancy	1438 May 16 j 17:40	10°☾46'05 -4.7m			
retrograde	1438 May 27 j 18:33	12°☾57'07	superior conj	1440 Nov 07 j 13:22	24°♒21'32 0°25'37
desc. node	1438 Jun 03 j 15:19	12°☾00'51	minimum elong	1440 Nov 07 j 19:41	24°♒41'24 0°25'20
evening set	1438 Jun 11 j 21:43	8°☾31'29		1440 Nov 12 j 01:02	0°♓

desc. node	1440 Nov 18 j 10:34	8° X 02'50		1443 May 27 j 14:39	0° X	
	1440 Dec 05 j 21:27	0° Z	morning max el	1443 Jun 16 j 06:31	17° X 00'09	45°44'27
evening rise	1440 Dec 18 j 22:48	16° Z 24'23		1443 Jun 29 j 08:26	0° II	
	1440 Dec 29 j 18:41	0° \approx		1443 Jul 27 j 02:19	0° G	
	1441 Jan 22 j 18:11	0° X		1443 Aug 22 j 02:51	0° Ω	
	1441 Feb 15 j 22:11	0° Y	asc. node	1443 Aug 27 j 09:01	6° Ω 13'11	
asc. node	1441 Mar 11 j 13:56	28° Y 59'43		1443 Sep 16 j 04:01	0° M	
	1441 Mar 12 j 09:46	0° X		1443 Oct 10 j 14:23	0° $\underline{\text{L}}$	
	1441 Apr 06 j 08:55	0° II		1443 Nov 03 j 16:07	0° M	
	1441 May 02 j 01:57	0° G		1443 Nov 27 j 13:48	0° X	
	1441 May 29 j 03:17	0° Ω	morning set	1443 Dec 14 j 02:35	20° X 47'25	
evening max el	1441 Jun 18 j 17:25	20° Ω 54'35	45°27'27	desc. node	1443 Dec 16 j 22:24	24° X 20'42
	1441 Jun 28 j 15:58	0° M		1443 Dec 21 j 10:18	0° Z	
desc. node	1441 Jul 01 j 03:14	2° M 06'50		1444 Jan 14 j 07:15	0° \approx	
greatest brilliancy	1441 Jul 27 j 19:27	18° M 53'40	-4.7m			
retrograde	1441 Aug 06 j 08:43	20° M 32'39		superior conj	1444 Jan 24 j 22:14	13° \approx 19'47 -1°16'01
evening set	1441 Aug 24 j 10:17	14° M 31'43		minimum elong	1444 Jan 24 j 12:22	12° \approx 48'51 1°15'47
inferior conj	1441 Aug 27 j 14:33	12° M 35'28	-8°44'08	max. Earth dist.	1444 Jan 28 j 08:22	17° \approx 37'08 1.71501 AU
minimum elong	1441 Aug 27 j 14:28	12° M 35'36	8°44'08		1444 Feb 07 j 05:48	0° X
min. Earth dist.	1441 Aug 28 j 06:19	12° M 11'06	0.28296 AU		1444 Mar 02 j 07:14	0° Y
morning rise	1441 Aug 30 j 18:25	10° M 39'09		evening rise	1444 Mar 05 j 07:17	3° Y 43'43
direct	1441 Sep 17 j 22:03	4° M 27'27			1444 Mar 26 j 12:55	0° X
greatest brilliancy	1441 Sep 29 j 00:24	6° M 43'01	-4.8m	asc. node	1444 Apr 08 j 01:55	15° X 25'06
asc. node	1441 Oct 22 j 06:33	22° M 00'55			1444 Apr 19 j 23:57	0° II
	1441 Oct 31 j 01:33	0° $\underline{\text{L}}$			1444 May 14 j 17:22	0° G
morning max el	1441 Nov 07 j 08:16	7° $\underline{\text{L}}$ 10'18	46°44'40		1444 Jun 08 j 19:03	0° Ω
	1441 Nov 28 j 14:02	0° M			1444 Jul 04 j 09:11	0° M
	1441 Dec 24 j 11:03	0° X		desc. node	1444 Jul 28 j 14:57	27° M 29'59
	1442 Jan 18 j 10:19	0° Z			1444 Jul 30 j 21:15	0° $\underline{\text{L}}$
desc. node	1442 Feb 10 j 19:58	28° Z 30'54			1444 Aug 28 j 09:39	0° M
	1442 Feb 12 j 01:06	0° \approx		evening max el	1444 Aug 30 j 12:50	2° M 05'08 46°26'38
	1442 Mar 08 j 12:47	0° X			1444 Oct 05 j 15:25	0° X
	1442 Apr 01 j 23:46	0° Y		greatest brilliancy	1444 Oct 09 j 22:37	1° X 42'31 -4.9m
	1442 Apr 26 j 11:00	0° X		retrograde	1444 Oct 19 j 06:46	3° X 20'14
morning set	1442 May 12 j 17:51	19° X 57'42			1444 Nov 01 j 05:28	30° R M
	1442 May 20 j 22:22	0° II		evening set	1444 Nov 03 j 01:13	29° M 03'36
asc. node	1442 Jun 03 j 23:36	17° II 14'02		inferior conj	1444 Nov 08 j 20:09	25° M 41'10 -2°32'27
	1442 Jun 14 j 09:04	0° G		minimum elong	1444 Nov 09 j 01:49	25° M 32'34 2°30'41
max. Earth dist.	1442 Jun 16 j 16:27	2° G 50'10	1.73578 AU	min. Earth dist.	1444 Nov 09 j 05:21	25° M 27'13 0.26547 AU
				morning rise	1444 Nov 15 j 02:02	22° M 03'46
superior conj	1442 Jun 18 j 07:51	4° G 51'12	0°33'13	asc. node	1444 Nov 18 j 18:30	20° M 17'58
minimum elong	1442 Jun 18 j 01:36	4° G 31'59	0°32'55	direct	1444 Nov 29 j 07:50	18° M 00'46
	1442 Jul 08 j 18:15	0° Ω		greatest brilliancy	1444 Dec 09 j 20:47	20° M 07'57 -4.9m
evening rise	1442 Jul 24 j 02:34	18° Ω 55'26			1444 Dec 26 j 11:46	0° X
	1442 Aug 02 j 01:57	0° M		morning max el	1445 Jan 18 j 23:18	21° X 16'36 46°53'41
	1442 Aug 26 j 09:03	0° $\underline{\text{L}}$			1445 Jan 27 j 09:34	0° Z
	1442 Sep 19 j 16:50	0° M			1445 Feb 23 j 12:23	0° \approx
desc. node	1442 Sep 23 j 12:48	4° M 43'05		desc. node	1445 Mar 10 j 07:57	17° \approx 06'40
	1442 Oct 14 j 02:28	0° X			1445 Mar 21 j 08:01	0° X
	1442 Nov 07 j 15:29	0° Z			1445 Apr 15 j 14:54	0° Y
	1442 Dec 02 j 11:51	0° \approx			1445 May 10 j 15:29	0° X
	1442 Dec 28 j 01:58	0° X			1445 Jun 04 j 11:47	0° II
asc. node	1443 Jan 14 j 16:07	19° X 34'18			1445 Jun 29 j 03:41	0° G
	1443 Jan 24 j 15:07	0° Y		asc. node	1445 Jul 01 j 11:21	2° G 50'06
evening max el	1443 Jan 25 j 14:03	0° Y 58'04	46°44'19	morning set	1445 Jul 19 j 08:01	24° G 44'22
	1443 Mar 02 j 18:07	0° X			1445 Jul 23 j 14:35	0° Ω
greatest brilliancy	1443 Mar 06 j 08:02	1° X 32'37	-4.8m		1445 Aug 16 j 20:40	0° M
retrograde	1443 Mar 16 j 21:52	3° X 38'36		max. Earth dist.	1445 Aug 21 j 10:21	5° M 40'27 1.72530 AU
	1443 Mar 30 j 09:52	30° R Y				
evening set	1443 Apr 02 j 14:45	28° Y 13'25		superior conj	1445 Aug 24 j 21:23	9° M 58'31 1°24'42
inferior conj	1443 Apr 07 j 05:02	25° Y 23'08	6°12'14	minimum elong	1445 Aug 24 j 20:41	9° M 56'19 1°24'43
minimum elong	1443 Apr 07 j 14:47	25° Y 07'44	6°10'13		1445 Sep 09 j 23:13	0° $\underline{\text{L}}$
min. Earth dist.	1443 Apr 07 j 05:13	25° Y 22'50	0.28589 AU	evening rise	1445 Oct 01 j 16:24	27° $\underline{\text{L}}$ 06'30
morning rise	1443 Apr 12 j 15:01	22° Y 04'20			1445 Oct 03 j 23:56	0° M
direct	1443 Apr 28 j 11:27	17° Y 11'26		desc. node	1445 Oct 21 j 00:50	21° M 17'11
desc. node	1443 May 06 j 05:24	18° Y 17'54			1445 Oct 28 j 00:13	0° X
greatest brilliancy	1443 May 08 j 09:09	18° Y 58'02	-4.7m		1445 Nov 21 j 00:57	0° Z

	1445 Dec 15 j 03:28	0°♊			1448 Jul 13 j 08:25	0°♊		
	1446 Jan 08 j 10:40	0°♋		asc. node	1448 Jul 28 j 23:08	18°♊49'03		
	1446 Feb 02 j 04:08	0°♌			1448 Aug 07 j 03:50	0°♋		
asc. node	1446 Feb 11 j 03:59	10°♌42'09			1448 Aug 31 j 13:44	0°♍		
	1446 Feb 27 j 17:49	0°♎			1448 Sep 24 j 16:34	0°♎		
	1446 Mar 27 j 01:51	0°♏		morning set	1448 Sep 26 j 21:54	2°♎46'40		
evening max el	1446 Apr 06 j 16:04	10°♏39'59 45°38'05			1448 Oct 18 j 15:11	0°♐		
	1446 Apr 29 j 03:08	0°♑		max. Earth dist.	1448 Nov 03 j 18:58	20°♐18'30 1.71205 AU		
greatest brilliancy	1446 May 14 j 10:04	8°♑37'07 -4.7m						
retrograde	1446 May 25 j 10:46	10°♑47'47		superior conj	1448 Nov 05 j 00:52	21°♐52'30 0°29'16		
desc. node	1446 Jun 02 j 17:25	9°♑26'17		minimum elong	1448 Nov 05 j 07:57	22°♐14'47 0°28'56		
evening set	1446 Jun 09 j 13:12	6°♑23'39			1448 Nov 11 j 11:56	0°♑		
inferior conj	1446 Jun 15 j 21:54	2°♑34'41 -3°02'13		desc. node	1448 Nov 17 j 12:39	7°♑34'59		
minimum elong	1446 Jun 15 j 15:33	2°♑44'38 3°00'28			1448 Dec 05 j 08:24	0°♒		
min. Earth dist.	1446 Jun 15 j 20:25	2°♑37'01 0.28984 AU		evening rise	1448 Dec 16 j 09:02	13°♒51'19		
	1446 Jun 20 j 02:41	30°♒♏			1448 Dec 29 j 05:42	0°♓		
morning rise	1446 Jun 21 j 17:59	29°♏03'26			1449 Jan 22 j 05:18	0°♋		
direct	1446 Jul 07 j 14:26	24°♏17'15			1449 Feb 15 j 09:30	0°♌		
greatest brilliancy	1446 Jul 18 j 00:12	26°♏14'23 -4.7m		asc. node	1449 Mar 10 j 16:02	28°♌30'44		
	1446 Jul 26 j 01:42	0°♑			1449 Mar 11 j 21:26	0°♎		
morning max el	1446 Aug 25 j 17:22	24°♑35'34 46°00'47			1449 Apr 05 j 21:18	0°♏		
	1446 Aug 31 j 04:37	0°♋			1449 May 01 j 15:46	0°♑		
asc. node	1446 Sep 23 j 20:55	25°♋20'05			1449 May 28 j 20:26	0°♋		
	1446 Sep 28 j 00:12	0°♍		evening max el	1449 Jun 16 j 07:04	18°♋38'24 45°26'32		
	1446 Oct 23 j 16:12	0°♎			1449 Jun 28 j 21:12	0°♍		
	1446 Nov 17 j 09:03	0°♏		desc. node	1449 Jun 30 j 05:11	1°♍06'39		
	1446 Dec 11 j 15:10	0°♑		greatest brilliancy	1449 Jul 25 j 08:10	16°♍37'37 -4.7m		
	1447 Jan 04 j 17:00	0°♒		retrograde	1449 Aug 03 j 23:05	18°♍18'14		
desc. node	1447 Jan 13 j 10:09	10°♒52'39		evening set	1449 Aug 21 j 23:38	12°♍18'10		
	1447 Jan 28 j 17:52	0°♓		inferior conj	1449 Aug 25 j 05:17	10°♍20'00 -8°43'11		
	1447 Feb 21 j 19:32	0°♋		minimum elong	1449 Aug 25 j 04:21	10°♍21'26 8°43'10		
morning set	1447 Feb 28 j 21:05	8°♋47'17		min. Earth dist.	1449 Aug 25 j 20:22	9°♍56'43 0.28352 AU		
	1447 Mar 17 j 23:05	0°♌		morning rise	1449 Aug 28 j 08:51	8°♍24'17		
				direct	1449 Sep 15 j 13:04	2°♍10'58		
superior conj	1447 Apr 08 j 14:16	26°♌45'59 -1°00'08		greatest brilliancy	1449 Sep 26 j 16:02	4°♍27'04 -4.8m		
minimum elong	1447 Apr 09 j 00:09	27°♌16'30 0°59'46		asc. node	1449 Oct 21 j 08:41	20°♍58'41		
	1447 Apr 11 j 05:08	0°♎			1449 Oct 31 j 02:12	0°♎		
max. Earth dist.	1447 Apr 11 j 10:58	0°♎18'02 1.73029 AU		morning max el	1449 Nov 04 j 22:54	4°♎49'58 46°43'39		
	1447 May 05 j 13:44	0°♏			1449 Nov 28 j 06:42	0°♏		
asc. node	1447 May 06 j 13:47	1°♏13'52			1449 Dec 24 j 01:04	0°♑		
evening rise	1447 May 16 j 02:27	12°♏55'59			1450 Jan 17 j 23:02	0°♒		
	1447 May 30 j 00:32	0°♑		desc. node	1450 Feb 09 j 22:04	28°♒00'40		
	1447 Jun 23 j 13:21	0°♋			1450 Feb 11 j 13:03	0°♓		
	1447 Jul 18 j 04:54	0°♌			1450 Mar 08 j 00:13	0°♋		
	1447 Aug 12 j 00:53	0°♎			1450 Apr 01 j 10:49	0°♌		
desc. node	1447 Aug 26 j 02:56	16°♎52'24			1450 Apr 25 j 21:47	0°♎		
	1447 Sep 06 j 03:57	0°♏		morning set	1450 May 10 j 11:27	17°♎51'43		
	1447 Oct 01 j 18:49	0°♑			1450 May 20 j 09:00	0°♏		
	1447 Oct 28 j 10:08	0°♒		asc. node	1450 Jun 03 j 01:33	16°♏47'33		
evening max el	1447 Nov 12 j 14:12	16°♒00'20 47°19'22			1450 Jun 13 j 19:38	0°♑		
	1447 Nov 27 j 04:45	0°♓		max. Earth dist.	1450 Jun 14 j 14:05	0°♑56'42 1.73592 AU		
asc. node	1447 Dec 17 j 06:18	14°♓51'24						
greatest brilliancy	1447 Dec 23 j 03:30	17°♓35'16 -4.9m		superior conj	1450 Jun 16 j 02:10	2°♑47'31 0°30'17		
retrograde	1448 Jan 02 j 11:41	19°♓37'38		minimum elong	1450 Jun 15 j 20:22	2°♑29'42 0°30'01		
evening set	1448 Jan 18 j 21:40	14°♓18'02			1450 Jul 08 j 04:52	0°♋		
min. Earth dist.	1448 Jan 22 j 07:26	12°♓13'27 0.27159 AU		evening rise	1450 Jul 21 j 20:59	16°♋51'21		
inferior conj	1448 Jan 23 j 05:35	11°♓38'55 7°46'34			1450 Aug 01 j 12:42	0°♍		
minimum elong	1448 Jan 22 j 20:48	11°♓52'37 7°45'15			1450 Aug 25 j 20:03	0°♎		
morning rise	1448 Jan 26 j 20:19	9°♓26'04			1450 Sep 19 j 04:13	0°♏		
direct	1448 Feb 12 j 19:07	3°♓52'40		desc. node	1450 Sep 22 j 14:57	4°♏14'27		
greatest brilliancy	1448 Feb 21 j 17:17	5°♓22'46 -4.8m			1450 Oct 13 j 14:22	0°♑		
	1448 Mar 27 j 22:24	0°♋			1450 Nov 07 j 04:05	0°♒		
morning max el	1448 Apr 02 j 07:10	5°♋07'57 46°14'33			1450 Dec 02 j 01:29	0°♓		
desc. node	1448 Apr 06 j 19:44	9°♋36'28			1450 Dec 27 j 17:39	0°♋		
	1448 Apr 26 j 07:05	0°♌		asc. node	1451 Jan 13 j 18:11	18°♋50'16		
	1448 May 23 j 04:15	0°♎		evening max el	1451 Jan 23 j 05:00	28°♋40'42 46°46'52		
	1448 Jun 18 j 01:34	0°♏			1451 Jan 24 j 12:31	0°♌		

greatest brilliancy	1451 Mar 03 j 23:55	29° Υ 20'00	-4.8m		1453 Jul 23 j 01:11	0° Ω	
	1451 Mar 05 j 21:34	0° \mathcal{B}			1453 Aug 16 j 07:17	0° \mathfrak{M}	
retrograde	1451 Mar 14 j 14:35	1° \mathcal{B} 26'55		max. Earth dist.	1453 Aug 19 j 01:00	3° \mathfrak{M} 23'58	1.72584 AU
	1451 Mar 23 j 00:05	30° $\mathcal{R}\Upsilon$					
evening set	1451 Mar 31 j 09:34	25° Υ 57'11		superior conj	1453 Aug 22 j 14:25	7° \mathfrak{M} 49'14	1°24'31
inferior conj	1451 Apr 04 j 21:00	23° Υ 11'15	6°26'23	minimum elong	1453 Aug 22 j 12:59	7° \mathfrak{M} 44'47	1°24'30
minimum elong	1451 Apr 05 j 06:45	22° Υ 55'53	6°24'26		1453 Sep 09 j 09:56	0° $\underline{\mathfrak{L}}$	
min. Earth dist.	1451 Apr 04 j 20:30	23° Υ 12'02	0.28565 AU	evening rise	1453 Sep 29 j 06:08	24° $\underline{\mathfrak{L}}$ 45'35	
morning rise	1451 Apr 10 j 04:10	19° Υ 56'53			1453 Oct 03 j 10:49	0° \mathfrak{M}	
direct	1451 Apr 26 j 03:04	14° Υ 59'54		desc. node	1453 Oct 20 j 02:50	20° \mathfrak{M} 49'05	
desc. node	1451 May 05 j 07:27	16° Υ 32'37			1453 Oct 27 j 11:18	0° \mathcal{X}	
greatest brilliancy	1451 May 05 j 23:45	16° Υ 46'10	-4.7m		1453 Nov 20 j 12:16	0° \mathcal{Z}	
	1451 May 28 j 01:51	0° \mathcal{B}			1453 Dec 14 j 15:06	0° \approx	
morning max el	1451 Jun 13 j 23:14	14° \mathcal{B} 52'34	45°44'39		1454 Jan 07 j 22:46	0° \mathcal{H}	
	1451 Jun 29 j 02:28	0° \mathfrak{I}			1454 Feb 01 j 17:02	0° Υ	
	1451 Jul 26 j 16:27	0° \mathfrak{E}		asc. node	1454 Feb 10 j 06:07	10° Υ 09'08	
	1451 Aug 21 j 15:21	0° Ω			1454 Feb 27 j 08:21	0° \mathcal{B}	
asc. node	1451 Aug 26 j 11:09	5° Ω 42'59			1454 Mar 26 j 20:35	0° \mathfrak{I}	
	1451 Sep 15 j 15:42	0° \mathfrak{M}		evening max el	1454 Apr 04 j 07:50	8° \mathfrak{I} 28'54	45°39'49
	1451 Oct 10 j 01:40	0° $\underline{\mathfrak{L}}$			1454 Apr 29 j 21:39	0° \mathfrak{E}	
	1451 Nov 03 j 03:13	0° \mathfrak{M}		greatest brilliancy	1454 May 12 j 03:14	6° \mathfrak{E} 30'29	-4.7m
	1451 Nov 27 j 00:48	0° \mathcal{X}		retrograde	1454 May 23 j 02:55	8° \mathfrak{E} 40'26	
morning set	1451 Dec 11 j 12:29	18° \mathcal{X} 13'09		desc. node	1454 Jun 01 j 19:18	6° \mathfrak{E} 49'29	
desc. node	1451 Dec 16 j 00:19	23° \mathcal{X} 52'16		evening set	1454 Jun 07 j 05:09	4° \mathfrak{E} 17'25	
	1451 Dec 20 j 21:15	0° \mathcal{Z}		inferior conj	1454 Jun 13 j 14:32	0° \mathfrak{E} 27'21	-2°43'43
	1452 Jan 13 j 18:07	0° \approx		minimum elong	1454 Jun 13 j 08:45	0° \mathfrak{E} 36'23	2°42'07
				min. Earth dist.	1454 Jun 13 j 13:14	0° \mathfrak{E} 29'22	0.28979 AU
superior conj	1452 Jan 22 j 08:41	10° \approx 48'05	-1°14'06		1454 Jun 14 j 07:58	30° $\mathcal{R}\mathfrak{I}$	
minimum elong	1452 Jan 21 j 22:12	10° \approx 15'15	1°13'50	morning rise	1454 Jun 19 j 12:23	26° \mathfrak{I} 53'10	
max. Earth dist.	1452 Jan 25 j 17:25	15° \approx 01'13	1.71455 AU	direct	1454 Jul 05 j 06:54	22° \mathfrak{I} 10'03	
	1452 Feb 06 j 16:34	0° \mathcal{H}		greatest brilliancy	1454 Jul 15 j 16:15	24° \mathfrak{I} 06'22	-4.7m
	1452 Mar 01 j 17:58	0° Υ			1454 Jul 27 j 07:16	0° \mathfrak{E}	
evening rise	1452 Mar 02 j 20:08	1° Υ 21'18		morning max el	1454 Aug 23 j 07:53	22° \mathfrak{E} 21'37	45°59'22
	1452 Mar 25 j 23:41	0° \mathcal{B}			1454 Aug 31 j 00:14	0° Ω	
asc. node	1452 Apr 07 j 03:59	14° \mathcal{B} 58'18		asc. node	1454 Sep 22 j 22:58	24° Ω 42'50	
	1452 Apr 19 j 10:53	0° \mathfrak{I}			1454 Sep 27 j 15:02	0° \mathfrak{M}	
	1452 May 14 j 04:41	0° \mathfrak{E}			1454 Oct 23 j 05:16	0° $\underline{\mathfrak{L}}$	
	1452 Jun 08 j 07:05	0° Ω			1454 Nov 16 j 21:17	0° \mathfrak{M}	
	1452 Jul 03 j 22:32	0° \mathfrak{M}			1454 Dec 11 j 02:54	0° \mathcal{X}	
desc. node	1452 Jul 27 j 17:03	26° \mathfrak{M} 52'28			1455 Jan 04 j 04:24	0° \mathcal{Z}	
	1452 Jul 30 j 13:15	0° $\underline{\mathfrak{L}}$		desc. node	1455 Jan 12 j 12:17	10° \mathcal{Z} 23'52	
evening max el	1452 Aug 28 j 03:04	29° $\underline{\mathfrak{L}}$ 46'22	46°24'04		1455 Jan 28 j 05:03	0° \approx	
	1452 Aug 28 j 08:41	0° \mathfrak{M}			1455 Feb 21 j 06:33	0° \mathcal{H}	
greatest brilliancy	1452 Oct 07 j 10:57	29° \mathfrak{M} 15'55	-4.9m	morning set	1455 Feb 26 j 09:38	6° \mathcal{H} 23'01	
	1452 Oct 09 j 23:18	0° \mathcal{X}			1455 Mar 17 j 09:57	0° Υ	
retrograde	1452 Oct 16 j 19:03	0° \mathcal{X} 52'54					
	1452 Oct 23 j 09:20	30° $\mathcal{R}\mathfrak{M}$		superior conj	1455 Apr 06 j 05:45	24° Υ 32'20	-1°02'32
evening set	1452 Oct 31 j 15:38	26° \mathfrak{M} 33'33		minimum elong	1455 Apr 06 j 15:41	25° Υ 03'00	1°02'12
inferior conj	1452 Nov 06 j 08:19	23° \mathfrak{M} 13'44	-2°55'42	max. Earth dist.	1455 Apr 09 j 05:49	28° Υ 14'50	1.72978 AU
minimum elong	1452 Nov 06 j 14:46	23° \mathfrak{M} 03'57	2°53'42		1455 Apr 10 j 15:53	0° \mathcal{B}	
min. Earth dist.	1452 Nov 06 j 18:36	22° \mathfrak{M} 58'09	0.26584 AU		1455 May 05 j 00:27	0° \mathfrak{I}	
morning rise	1452 Nov 12 j 13:34	19° \mathfrak{M} 37'06		asc. node	1455 May 05 j 15:46	0° \mathfrak{I} 47'02	
asc. node	1452 Nov 17 j 20:26	17° \mathfrak{M} 13'26		evening rise	1455 May 13 j 20:13	10° \mathfrak{I} 50'14	
direct	1452 Nov 26 j 21:08	15° \mathfrak{M} 32'56			1455 May 29 j 11:19	0° \mathfrak{E}	
greatest brilliancy	1452 Dec 07 j 10:16	17° \mathfrak{M} 40'23	-4.9m		1455 Jun 23 j 00:21	0° Ω	
	1452 Dec 27 j 03:31	0° \mathcal{X}			1455 Jul 17 j 16:20	0° \mathfrak{M}	
morning max el	1453 Jan 16 j 12:57	18° \mathcal{X} 52'03	46°54'18		1455 Aug 11 j 13:00	0° $\underline{\mathfrak{L}}$	
	1453 Jan 27 j 05:22	0° \mathcal{Z}		desc. node	1455 Aug 25 j 05:03	16° $\underline{\mathfrak{L}}$ 21'01	
	1453 Feb 23 j 03:39	0° \approx			1455 Sep 05 j 17:09	0° \mathfrak{M}	
desc. node	1453 Mar 09 j 10:01	16° \approx 31'51			1455 Oct 01 j 09:51	0° \mathcal{X}	
	1453 Mar 20 j 21:15	0° \mathcal{H}			1455 Oct 28 j 04:58	0° \mathcal{Z}	
	1453 Apr 15 j 03:00	0° Υ		evening max el	1455 Nov 10 j 03:14	13° \mathcal{Z} 33'33	47°18'44
	1453 May 10 j 02:53	0° \mathcal{B}			1455 Nov 27 j 13:10	0° \approx	
	1453 Jun 03 j 22:44	0° \mathfrak{I}		asc. node	1455 Dec 16 j 08:23	13° \approx 12'52	
	1453 Jun 28 j 14:23	0° \mathfrak{E}		greatest brilliancy	1455 Dec 20 j 18:13	15° \approx 10'06	-4.9m
asc. node	1453 Jun 30 j 13:22	2° \mathfrak{E} 23'33		retrograde	1455 Dec 31 j 00:47	17° \approx 11'26	
morning set	1453 Jul 17 j 01:56	22° \mathfrak{E} 39'14		evening set	1456 Jan 16 j 07:12	11° \approx 58'12	

min. Earth dist.	1456 Jan 19 j 21:03	9° \approx 47'56	0.27101 AU	minimum elong	1458 Jun 13 j 15:06	0° \approx 26'26	0°27'05
inferior conj	1456 Jan 20 j 18:54	9° \approx 13'54	7°35'19		1458 Jul 07 j 15:46	0° Ω	
minimum elong	1456 Jan 20 j 09:39	9° \approx 28'19	7°33'49	evening rise	1458 Jul 19 j 15:40	14° Ω 47'10	
morning rise	1456 Jan 24 j 12:26	6° \approx 56'58			1458 Jul 31 j 23:43	0° \mathbb{M}	
direct	1456 Feb 10 j 07:18	1° \approx 28'24			1458 Aug 25 j 07:19	0° $\underline{\Omega}$	
greatest brilliancy	1456 Feb 19 j 07:04	2° \approx 59'34	-4.9m		1458 Sep 18 j 15:51	0° \mathbb{M}	
	1456 Mar 27 j 23:30	0° \mathbb{H}		desc. node	1458 Sep 21 j 16:58	3° \mathbb{M} 44'46	
morning max el	1456 Mar 30 j 19:51	2° \mathbb{H} 45'09	46°16'10		1458 Oct 13 j 02:31	0° \mathbb{Z}	
desc. node	1456 Apr 05 j 21:47	8° \mathbb{H} 48'08			1458 Nov 06 j 16:57	0° \mathbb{Z}	
	1456 Apr 25 j 23:49	0° \mathbb{Y}			1458 Dec 01 j 15:32	0° \approx	
	1456 May 22 j 18:05	0° \mathbb{B}			1458 Dec 27 j 09:59	0° \mathbb{H}	
	1456 Jun 17 j 13:58	0° \mathbb{I}		asc. node	1459 Jan 12 j 20:18	18° \mathbb{H} 04'22	
	1456 Jul 12 j 20:02	0° \mathbb{G}		evening max el	1459 Jan 20 j 20:48	26° \mathbb{H} 23'52	46°49'08
asc. node	1456 Jul 28 j 01:20	18° \mathbb{G} 21'24			1459 Jan 24 j 11:24	0° \mathbb{Y}	
	1456 Aug 06 j 15:01	0° Ω		greatest brilliancy	1459 Mar 01 j 15:38	27° \mathbb{Y} 04'59	-4.8m
	1456 Aug 31 j 00:42	0° \mathbb{M}		retrograde	1459 Mar 12 j 07:13	29° \mathbb{Y} 12'30	
	1456 Sep 24 j 03:30	0° $\underline{\Omega}$		evening set	1459 Mar 29 j 04:10	23° \mathbb{Y} 38'29	
morning set	1456 Sep 24 j 12:47	0° $\underline{\Omega}$ 29'02		inferior conj	1459 Apr 02 j 12:40	20° \mathbb{Y} 56'46	6°40'03
	1456 Oct 18 j 02:08	0° \mathbb{M}		minimum elong	1459 Apr 02 j 22:20	20° \mathbb{Y} 41'32	6°38'13
max. Earth dist.	1456 Nov 01 j 04:07	17° \mathbb{M} 41'43	1.71239 AU	min. Earth dist.	1459 Apr 02 j 11:13	20° \mathbb{Y} 59'03	0.28536 AU
				morning rise	1459 Apr 07 j 16:49	17° \mathbb{Y} 47'01	
superior conj	1456 Nov 02 j 12:25	19° \mathbb{M} 23'16	0°32'51	direct	1459 Apr 23 j 18:42	12° \mathbb{Y} 46'04	
minimum elong	1456 Nov 02 j 20:11	19° \mathbb{M} 47'42	0°32'29	greatest brilliancy	1459 May 03 j 13:25	14° \mathbb{Y} 31'10	-4.7m
	1456 Nov 10 j 22:59	0° \mathbb{Z}		desc. node	1459 May 04 j 09:26	14° \mathbb{Y} 48'55	
desc. node	1456 Nov 16 j 14:38	7° \mathbb{Z} 06'27			1459 May 28 j 10:50	0° \mathbb{B}	
	1456 Dec 04 j 19:32	0° \mathbb{Z}		morning max el	1459 Jun 11 j 15:38	12° \mathbb{B} 42'50	45°44'57
evening rise	1456 Dec 13 j 18:58	11° \mathbb{Z} 16'44			1459 Jun 28 j 20:35	0° \mathbb{I}	
	1456 Dec 28 j 16:56	0° \approx			1459 Jul 26 j 06:50	0° \mathbb{G}	
	1457 Jan 21 j 16:38	0° \mathbb{H}			1459 Aug 21 j 04:09	0° Ω	
	1457 Feb 14 j 21:00	0° \mathbb{Y}		asc. node	1459 Aug 25 j 13:08	5° Ω 11'21	
asc. node	1457 Mar 09 j 18:05	28° \mathbb{Y} 00'59			1459 Sep 15 j 03:42	0° \mathbb{M}	
	1457 Mar 11 j 09:19	0° \mathbb{B}			1459 Oct 09 j 13:15	0° $\underline{\Omega}$	
	1457 Apr 05 j 09:56	0° \mathbb{I}			1459 Nov 02 j 14:35	0° \mathbb{M}	
	1457 May 01 j 05:55	0° \mathbb{G}			1459 Nov 26 j 12:04	0° \mathbb{Z}	
	1457 May 28 j 14:08	0° Ω		morning set	1459 Dec 08 j 22:56	15° \mathbb{Z} 39'45	
evening max el	1457 Jun 13 j 21:48	16° Ω 24'41	45°25'51	desc. node	1459 Dec 15 j 02:29	23° \mathbb{Z} 23'49	
desc. node	1457 Jun 29 j 07:22	0° \mathbb{M} 05'18			1459 Dec 20 j 08:28	0° \mathbb{Z}	
	1457 Jun 29 j 04:44	0° \mathbb{M}			1460 Jan 13 j 05:17	0° \approx	
greatest brilliancy	1457 Jul 22 j 20:40	14° \mathbb{M} 21'48	-4.7m				
retrograde	1457 Aug 01 j 14:14	16° \mathbb{M} 04'31		superior conj	1460 Jan 19 j 19:04	8° \approx 15'03	-1°12'01
evening set	1457 Aug 19 j 12:56	10° \mathbb{M} 05'55		minimum elong	1460 Jan 19 j 08:07	7° \approx 40'42	1°11'43
inferior conj	1457 Aug 22 j 20:18	8° \mathbb{M} 05'13	-8°41'19	max. Earth dist.	1460 Jan 23 j 04:05	12° \approx 29'07	1.71419 AU
minimum elong	1457 Aug 22 j 18:33	8° \mathbb{M} 07'55	8°41'17		1460 Feb 06 j 03:44	0° \mathbb{H}	
min. Earth dist.	1457 Aug 23 j 10:16	7° \mathbb{M} 43'40	0.28404 AU	evening rise	1460 Feb 29 j 08:30	28° \mathbb{H} 55'52	
morning rise	1457 Aug 25 j 23:58	6° \mathbb{M} 09'28			1460 Mar 01 j 05:09	0° \mathbb{Y}	
	1457 Sep 11 j 05:48	30° \mathbb{R} Ω			1460 Mar 25 j 10:56	0° \mathbb{B}	
direct	1457 Sep 13 j 04:43	29° Ω 55'24		asc. node	1460 Apr 06 j 05:56	14° \mathbb{B} 29'33	
	1457 Sep 15 j 04:06	0° \mathbb{M}			1460 Apr 18 j 22:20	0° \mathbb{I}	
greatest brilliancy	1457 Sep 24 j 07:07	2° \mathbb{M} 11'10	-4.8m		1460 May 13 j 16:32	0° \mathbb{G}	
asc. node	1457 Oct 20 j 10:39	19° \mathbb{M} 57'36			1460 Jun 07 j 19:39	0° Ω	
	1457 Oct 31 j 01:44	0° $\underline{\Omega}$			1460 Jul 03 j 12:30	0° \mathbb{M}	
morning max el	1457 Nov 02 j 14:28	2° $\underline{\Omega}$ 32'06	46°42'18	desc. node	1460 Jul 26 j 19:09	26° \mathbb{M} 13'14	
	1457 Nov 27 j 23:14	0° \mathbb{M}			1460 Jul 30 j 06:02	0° $\underline{\Omega}$	
	1457 Dec 23 j 15:13	0° \mathbb{Z}		evening max el	1460 Aug 25 j 17:04	27° $\underline{\Omega}$ 25'55	46°21'30
	1458 Jan 17 j 12:01	0° \mathbb{Z}			1460 Aug 28 j 09:18	0° \mathbb{M}	
desc. node	1458 Feb 09 j 00:12	27° \mathbb{Z} 29'29		greatest brilliancy	1460 Oct 05 j 00:05	26° \mathbb{M} 49'39	-4.9m
	1458 Feb 11 j 01:19	0° \approx		retrograde	1460 Oct 14 j 06:59	28° \mathbb{M} 25'11	
	1458 Mar 07 j 11:58	0° \mathbb{H}		evening set	1460 Oct 29 j 06:25	24° \mathbb{M} 03'07	
	1458 Mar 31 j 22:10	0° \mathbb{Y}		inferior conj	1460 Nov 03 j 20:43	20° \mathbb{M} 46'14	-3°18'21
	1458 Apr 25 j 08:52	0° \mathbb{B}		minimum elong	1460 Nov 04 j 03:53	20° \mathbb{M} 35'20	3°16'12
morning set	1458 May 08 j 04:49	15° \mathbb{B} 44'05		min. Earth dist.	1460 Nov 04 j 08:18	20° \mathbb{M} 28'37	0.26618 AU
	1458 May 19 j 19:56	0° \mathbb{I}		morning rise	1460 Nov 10 j 01:00	17° \mathbb{M} 10'28	
asc. node	1458 Jun 02 j 03:36	16° \mathbb{I} 20'28		asc. node	1460 Nov 16 j 22:30	14° \mathbb{M} 13'57	
max. Earth dist.	1458 Jun 12 j 12:59	29° \mathbb{I} 06'09	1.73601 AU	direct	1460 Nov 24 j 10:08	13° \mathbb{M} 05'00	
	1458 Jun 13 j 06:30	0° \mathbb{G}		greatest brilliancy	1460 Dec 05 j 00:10	15° \mathbb{M} 12'56	-4.9m
					1460 Dec 27 j 15:29	0° \mathbb{Z}	
superior conj	1458 Jun 13 j 20:25	0° \mathbb{G} 42'45	0°27'20	morning max el	1461 Jan 14 j 01:42	16° \mathbb{Z} 24'29	46°54'51

	1461 Jan 27 j 00:49	0° Z		desc. node	1463 Aug 24 j 07:01	15° Z 48'23	
	1461 Feb 22 j 18:59	0° \approx			1463 Sep 05 j 06:40	0° M	
desc. node	1461 Mar 08 j 12:03	15° \approx 56'11			1463 Oct 01 j 01:17	0° X	
	1461 Mar 20 j 10:45	0° H			1463 Oct 28 j 00:31	0° Z	
	1461 Apr 14 j 15:29	0° Y		evening max el	1463 Nov 07 j 16:09	11° Z 06'05	47°18'07
	1461 May 09 j 14:43	0° B			1463 Nov 28 j 00:46	0° \approx	
	1461 Jun 03 j 10:08	0° II		asc. node	1463 Dec 15 j 10:34	11° \approx 30'11	
	1461 Jun 28 j 01:30	0° E		greatest brilliancy	1463 Dec 18 j 08:39	12° \approx 43'58	-4.9m
asc. node	1461 Jun 29 j 15:32	1° E 56'14		retrograde	1463 Dec 28 j 14:17	14° \approx 44'53	
morning set	1461 Jul 14 j 19:32	20° E 32'01		evening set	1464 Jan 13 j 16:42	9° \approx 37'38	
	1461 Jul 22 j 12:10	0° O		min. Earth dist.	1464 Jan 17 j 10:32	7° \approx 21'58	0.27041 AU
	1461 Aug 15 j 18:16	0° M		inferior conj	1464 Jan 18 j 08:11	6° \approx 48'22	7°23'11
max. Earth dist.	1461 Aug 16 j 16:10	1° M 07'56	1.72636 AU	minimum elong	1464 Jan 17 j 22:32	7° \approx 03'21	7°21'29
				morning rise	1464 Jan 22 j 04:41	4° \approx 27'21	
superior conj	1461 Aug 20 j 07:24	5° M 38'43	1°24'11		1464 Feb 01 j 00:53	30° R Z	
minimum elong	1461 Aug 20 j 05:15	5° M 32'05	1°24'11	direct	1464 Feb 07 j 19:28	29° Z 03'31	
	1461 Sep 08 j 21:01	0° Z			1464 Feb 14 j 19:53	0° \approx	
evening rise	1461 Sep 26 j 20:02	22° Z 24'11		greatest brilliancy	1464 Feb 16 j 20:41	0° \approx 35'55	-4.9m
	1461 Oct 02 j 22:05	0° M			1464 Mar 27 j 23:25	0° H	
desc. node	1461 Oct 19 j 04:50	20° M 19'50		morning max el	1464 Mar 28 j 09:24	0° H 24'22	46°17'54
	1461 Oct 26 j 22:44	0° X		desc. node	1464 Apr 04 j 23:47	8° H 00'30	
	1461 Nov 19 j 23:55	0° Z			1464 Apr 25 j 16:12	0° Y	
	1461 Dec 14 j 03:01	0° \approx			1464 May 22 j 07:47	0° B	
	1462 Jan 07 j 11:09	0° H			1464 Jun 17 j 02:22	0° II	
	1462 Feb 01 j 06:15	0° Y			1464 Jul 12 j 07:43	0° E	
asc. node	1462 Feb 09 j 08:08	9° Y 34'53		asc. node	1464 Jul 27 j 03:17	17° E 52'39	
	1462 Feb 26 j 23:19	0° B			1464 Aug 06 j 02:19	0° O	
	1462 Mar 26 j 16:16	0° II			1464 Aug 30 j 11:49	0° M	
evening max el	1462 Apr 01 j 22:43	6° II 14'28	45°41'22	morning set	1464 Sep 22 j 03:37	28° M 10'58	
	1462 May 01 j 00:06	0° E			1464 Sep 23 j 14:32	0° Z	
greatest brilliancy	1462 May 09 j 20:12	4° E 21'49	-4.7m		1464 Oct 17 j 13:10	0° M	
retrograde	1462 May 20 j 18:49	6° E 31'19		max. Earth dist.	1464 Oct 29 j 15:37	15° M 12'11	1.71270 AU
desc. node	1462 May 31 j 21:30	4° E 05'53					
evening set	1462 Jun 04 j 21:01	2° E 08'52		superior conj	1464 Oct 30 j 23:55	16° M 53'42	0°36'21
	1462 Jun 08 j 13:29	30° R II		minimum elong	1464 Oct 31 j 08:18	17° M 20'05	0°35'58
inferior conj	1462 Jun 11 j 06:57	28° II 18'09	-2°24'52		1464 Nov 10 j 10:04	0° X	
minimum elong	1462 Jun 11 j 01:48	28° II 26'15	2°23'24	desc. node	1464 Nov 15 j 16:45	6° X 38'12	
min. Earth dist.	1462 Jun 11 j 06:10	28° II 19'24	0.28976 AU		1464 Dec 04 j 06:43	0° Z	
morning rise	1462 Jun 17 j 06:31	24° II 41'15		evening rise	1464 Dec 11 j 04:57	8° Z 42'10	
direct	1462 Jul 02 j 22:44	20° II 00'48			1464 Dec 28 j 04:12	0° \approx	
greatest brilliancy	1462 Jul 13 j 08:43	21° II 57'09	-4.7m		1465 Jan 21 j 04:00	0° H	
	1462 Jul 28 j 05:28	0° E			1465 Feb 14 j 08:32	0° Y	
morning max el	1462 Aug 20 j 22:16	20° E 06'08	45°58'11	asc. node	1465 Mar 08 j 20:05	27° Y 31'05	
	1462 Aug 30 j 19:44	0° O			1465 Mar 10 j 21:12	0° B	
asc. node	1462 Sep 22 j 01:00	24° O 04'50			1465 Apr 04 j 22:33	0° II	
	1462 Sep 27 j 06:02	0° M			1465 Apr 30 j 20:07	0° E	
	1462 Oct 22 j 18:33	0° Z			1465 May 28 j 08:10	0° O	
	1462 Nov 16 j 09:43	0° M		evening max el	1465 Jun 11 j 13:21	14° O 13'10	45°25'00
	1462 Dec 10 j 14:51	0° X		desc. node	1465 Jun 28 j 09:24	29° O 02'09	
	1463 Jan 03 j 16:01	0° Z			1465 Jun 29 j 15:02	0° M	
desc. node	1463 Jan 11 j 14:22	9° Z 54'23		greatest brilliancy	1465 Jul 20 j 08:58	12° M 05'45	-4.7m
	1463 Jan 27 j 16:25	0° \approx		retrograde	1465 Jul 30 j 05:17	13° M 50'23	
	1463 Feb 20 j 17:42	0° H		evening set	1465 Aug 17 j 01:47	7° M 54'02	
morning set	1463 Feb 23 j 22:20	3° H 58'35		inferior conj	1465 Aug 20 j 11:13	5° M 50'09	-8°38'38
	1463 Mar 16 j 20:57	0° Y		minimum elong	1465 Aug 20 j 08:39	5° M 54'06	8°38'33
				min. Earth dist.	1465 Aug 20 j 23:56	5° M 30'32	0.28456 AU
superior conj	1463 Apr 03 j 21:23	22° Y 18'37	-1°04'50	morning rise	1465 Aug 23 j 15:21	3° M 53'44	
minimum elong	1463 Apr 04 j 07:18	22° Y 49'17	1°04'31		1465 Aug 31 j 01:31	30° R O	
max. Earth dist.	1463 Apr 06 j 23:31	26° Y 07'35	1.72932 AU	direct	1465 Sep 10 j 20:43	27° O 39'42	
	1463 Apr 10 j 02:48	0° B		greatest brilliancy	1465 Sep 21 j 21:39	29° O 54'22	-4.8m
	1463 May 04 j 11:22	0° II			1465 Sep 22 j 03:25	0° M	
asc. node	1463 May 04 j 17:52	0° II 19'56		asc. node	1465 Oct 19 j 12:44	18° M 57'55	
evening rise	1463 May 11 j 13:56	8° II 43'42			1465 Oct 31 j 00:22	0° Z	
	1463 May 28 j 22:21	0° E		morning max el	1465 Oct 31 j 06:12	0° Z 14'44	46°40'59
	1463 Jun 22 j 11:39	0° O			1465 Nov 27 j 15:29	0° M	
	1463 Jul 17 j 04:03	0° M			1465 Dec 23 j 05:11	0° X	
	1463 Aug 11 j 01:25	0° Z			1466 Jan 17 j 00:49	0° Z	

desc. node	1466 Feb 08 j 02:08	26°♄58'10		greatest brilliancy	1468 Oct 02 j 13:30	24°♍24'54	-4.9m
	1466 Feb 10 j 13:24	0°♊		retrograde	1468 Oct 11 j 18:23	25°♍58'41	
	1466 Mar 06 j 23:33	0°♋		evening set	1468 Oct 26 j 21:15	21°♍33'23	
	1466 Mar 31 j 09:22	0°♌		inferior conj	1468 Nov 01 j 09:08	18°♍19'47	-3°40'31
	1466 Apr 24 j 19:47	0°♍		minimum elong	1468 Nov 01 j 16:57	18°♍07'52	3°38'13
morning set	1466 May 05 j 22:30	13°♌37'59		min. Earth dist.	1468 Nov 01 j 22:20	17°♍59'40	0.26663 AU
	1466 May 19 j 06:40	0°♎		morning rise	1468 Nov 07 j 12:11	14°♍45'06	
asc. node	1466 Jun 01 j 05:46	15°♎54'22		asc. node	1468 Nov 16 j 00:39	11°♍20'44	
max. Earth dist.	1466 Jun 10 j 13:03	27°♎19'54	1.73607 AU	direct	1468 Nov 21 j 22:41	10°♍37'39	
				greatest brilliancy	1468 Dec 02 j 14:49	12°♍46'57	-4.9m
superior conj	1466 Jun 11 j 14:57	28°♎39'27	0°24'22		1468 Dec 28 j 00:12	0°♏	
minimum elong	1466 Jun 11 j 10:09	28°♎24'44	0°24'08	morning max el	1469 Jan 11 j 14:05	13°♏56'15	46°55'25
	1466 Jun 12 j 17:10	0°♐			1469 Jan 26 j 19:34	0°♑	
	1466 Jul 07 j 02:29	0°♑			1469 Feb 22 j 09:53	0°♒	
evening rise	1466 Jul 17 j 10:35	12°♑44'20		desc. node	1469 Mar 07 j 14:07	15°♒21'39	
	1466 Jul 31 j 10:36	0°♓			1469 Mar 19 j 23:51	0°♋	
	1466 Aug 24 j 18:29	0°♈			1469 Apr 14 j 03:33	0°♌	
	1466 Sep 18 j 03:25	0°♉			1469 May 09 j 02:08	0°♍	
desc. node	1466 Sep 20 j 18:59	3°♉15'15			1469 Jun 02 j 21:08	0°♎	
	1466 Oct 12 j 14:38	0°♊			1469 Jun 27 j 12:14	0°♏	
	1466 Nov 06 j 05:48	0°♋		asc. node	1469 Jun 28 j 17:31	1°♏29'31	
	1466 Dec 01 j 05:34	0°♌		morning set	1469 Jul 12 j 13:33	18°♏27'12	
	1466 Dec 27 j 02:25	0°♍			1469 Jul 21 j 22:45	0°♎	
asc. node	1467 Jan 11 j 22:17	17°♍17'59		max. Earth dist.	1469 Aug 14 j 09:26	28°♎59'48	1.72687 AU
evening max el	1467 Jan 18 j 12:50	24°♋08'09	46°51'25		1469 Aug 15 j 04:51	0°♓	
	1467 Jan 24 j 11:00	0°♌					
greatest brilliancy	1467 Feb 27 j 07:56	24°♌51'27	-4.8m	superior conj	1469 Aug 18 j 00:56	3°♓31'16	1°23'44
retrograde	1467 Mar 09 j 23:44	26°♌58'45		minimum elong	1469 Aug 17 j 22:07	3°♓22'34	1°23'43
evening set	1467 Mar 26 j 22:52	21°♌20'48			1469 Sep 08 j 07:42	0°♈	
inferior conj	1467 Mar 31 j 04:25	18°♌43'12	6°53'14	evening rise	1469 Sep 24 j 10:36	20°♈06'15	
minimum elong	1467 Mar 31 j 13:56	18°♌28'11	6°51'31		1469 Oct 02 j 08:55	0°♉	
min. Earth dist.	1467 Mar 31 j 02:02	18°♌46'58	0.28503 AU	desc. node	1469 Oct 18 j 07:01	19°♉52'22	
morning rise	1467 Apr 05 j 05:22	15°♌38'06			1469 Oct 26 j 09:48	0°♊	
direct	1467 Apr 21 j 10:29	10°♌33'21			1469 Nov 19 j 11:16	0°♋	
greatest brilliancy	1467 May 01 j 02:53	12°♌16'46	-4.7m		1469 Dec 13 j 14:43	0°♌	
desc. node	1467 May 03 j 11:35	13°♌09'59			1470 Jan 06 j 23:22	0°♍	
	1467 May 28 j 16:52	0°♎			1470 Jan 31 j 19:21	0°♌	
morning max el	1467 Jun 09 j 07:36	10°♌33'02	45°45'21	asc. node	1470 Feb 08 j 10:09	9°♌01'04	
	1467 Jun 28 j 13:52	0°♎			1470 Feb 26 j 14:14	0°♍	
	1467 Jul 25 j 20:42	0°♏			1470 Mar 26 j 12:12	0°♎	
	1467 Aug 20 j 16:32	0°♑		evening max el	1470 Mar 30 j 13:15	4°♎00'01	45°43'16
asc. node	1467 Aug 24 j 15:11	4°♑41'03			1470 May 02 j 12:58	0°♏	
	1467 Sep 14 j 15:22	0°♓		greatest brilliancy	1470 May 07 j 12:47	2°♏13'50	-4.7m
	1467 Oct 09 j 00:34	0°♈		retrograde	1470 May 18 j 11:08	4°♏23'42	
	1467 Nov 02 j 01:46	0°♉		desc. node	1470 May 30 j 23:32	1°♏19'51	
	1467 Nov 25 j 23:10	0°♊		evening set	1470 Jun 02 j 13:07	0°♏01'17	
morning set	1467 Dec 06 j 09:02	13°♊05'51			1470 Jun 02 j 14:03	30°♒♎	
desc. node	1467 Dec 14 j 04:34	22°♊55'40		inferior conj	1470 Jun 08 j 23:28	26°♎10'17	-2°05'52
	1467 Dec 19 j 19:29	0°♋		minimum elong	1470 Jun 08 j 18:57	26°♎17'22	2°04'34
	1468 Jan 12 j 16:14	0°♌		min. Earth dist.	1470 Jun 08 j 23:06	26°♎10'51	0.28972 AU
				morning rise	1470 Jun 15 j 00:39	22°♎31'02	
superior conj	1468 Jan 17 j 05:05	5°♌41'32	-1°09'46	direct	1470 Jun 30 j 14:27	17°♎52'44	
minimum elong	1468 Jan 16 j 17:44	5°♌05'55	1°09'26	greatest brilliancy	1470 Jul 11 j 01:29	19°♎49'40	-4.7m
max. Earth dist.	1468 Jan 20 j 14:09	9°♌55'51	1.71376 AU		1470 Jul 28 j 21:17	0°♏	
	1468 Feb 05 j 14:38	0°♋		morning max el	1470 Aug 18 j 13:42	17°♏54'37	45°57'11
evening rise	1468 Feb 26 j 20:37	26°♋30'24			1470 Aug 30 j 14:12	0°♑	
	1468 Feb 29 j 16:02	0°♌		asc. node	1470 Sep 21 j 03:05	23°♑28'36	
	1468 Mar 24 j 21:55	0°♍			1470 Sep 26 j 20:23	0°♓	
asc. node	1468 Apr 05 j 08:05	14°♌02'25			1470 Oct 22 j 07:17	0°♈	
	1468 Apr 18 j 09:29	0°♎			1470 Nov 15 j 21:41	0°♉	
	1468 May 13 j 04:03	0°♏			1470 Dec 10 j 02:23	0°♊	
	1468 Jun 07 j 07:54	0°♑			1471 Jan 03 j 03:18	0°♋	
	1468 Jul 03 j 02:09	0°♓		desc. node	1471 Jan 10 j 16:20	9°♋25'27	
desc. node	1468 Jul 25 j 21:08	25°♓34'37			1471 Jan 27 j 03:31	0°♌	
	1468 Jul 29 j 22:40	0°♈			1471 Feb 20 j 04:39	0°♍	
evening max el	1468 Aug 23 j 06:05	25°♈04'29	46°18'46	morning set	1471 Feb 21 j 10:22	1°♋32'33	
	1468 Aug 28 j 10:38	0°♉			1471 Mar 16 j 07:45	0°♌	

superior conj	1471 Apr 01 j 12:27	20° Υ 03'48	-1°07'04	morning rise	1473 Aug 21 j 07:07	1° \mathfrak{M} 38'22	
minimum elong	1471 Apr 01 j 22:18	20° Υ 34'14	1°06'45		1473 Aug 24 j 03:15	30° \mathfrak{R} 0	
max. Earth dist.	1471 Apr 04 j 14:42	23° Υ 53'12	1.72881 AU	direct	1473 Sep 08 j 12:56	25° Ω 25'07	
	1471 Apr 09 j 13:30	0° \mathfrak{B}		greatest brilliancy	1473 Sep 19 j 11:56	27° Ω 38'03	-4.8m
asc. node	1471 May 03 j 19:58	29° \mathfrak{B} 53'39			1473 Sep 24 j 15:57	0° \mathfrak{M}	
	1471 May 03 j 22:02	0° \mathfrak{I}		asc. node	1473 Oct 18 j 14:52	18° \mathfrak{M} 00'11	
evening rise	1471 May 09 j 07:19	6° \mathfrak{I} 36'58		morning max el	1473 Oct 28 j 21:32	27° \mathfrak{M} 57'00	46°39'35
	1471 May 28 j 09:06	0° \mathfrak{E}			1473 Oct 30 j 21:56	0° \mathfrak{A}	
	1471 Jun 21 j 22:40	0° Ω			1473 Nov 27 j 07:17	0° \mathfrak{M}	
	1471 Jul 16 j 15:31	0° \mathfrak{M}			1473 Dec 22 j 18:50	0° \mathfrak{X}	
	1471 Aug 10 j 13:34	0° \mathfrak{A}			1474 Jan 16 j 13:23	0° \mathfrak{Z}	
desc. node	1471 Aug 23 j 09:06	15° \mathfrak{A} 16'58		desc. node	1474 Feb 07 j 04:15	26° \mathfrak{Z} 28'06	
	1471 Sep 04 j 19:55	0° \mathfrak{M}			1474 Feb 10 j 01:17	0° \mathfrak{A}	
	1471 Sep 30 j 16:30	0° \mathfrak{X}			1474 Mar 06 j 10:58	0° \mathfrak{H}	
	1471 Oct 27 j 20:09	0° \mathfrak{Z}			1474 Mar 30 j 20:28	0° Υ	
evening max el	1471 Nov 05 j 05:57	8° \mathfrak{Z} 42'23	47°17'24		1474 Apr 24 j 06:39	0° \mathfrak{B}	
	1471 Nov 28 j 15:30	0° \mathfrak{A}		morning set	1474 May 03 j 15:55	11° \mathfrak{B} 31'01	
asc. node	1471 Dec 14 j 12:28	9° \mathfrak{A} 44'18			1474 May 18 j 17:25	0° \mathfrak{I}	
greatest brilliancy	1471 Dec 15 j 22:18	10° \mathfrak{A} 18'02	-4.9m	asc. node	1474 May 31 j 07:43	15° \mathfrak{I} 27'34	
retrograde	1471 Dec 26 j 04:08	12° \mathfrak{A} 19'16		max. Earth dist.	1474 Jun 08 j 11:27	25° \mathfrak{I} 28'25	1.73610 AU
evening set	1472 Jan 11 j 02:12	7° \mathfrak{A} 17'35					
min. Earth dist.	1472 Jan 14 j 23:45	4° \mathfrak{A} 56'58	0.26991 AU	superior conj	1474 Jun 09 j 09:06	26° \mathfrak{I} 34'56	0°21'19
inferior conj	1472 Jan 15 j 21:24	4° \mathfrak{A} 23'26	7°10'03	minimum elong	1474 Jun 09 j 04:52	26° \mathfrak{I} 21'55	0°21'06
minimum elong	1472 Jan 15 j 11:27	4° \mathfrak{A} 38'52	7°08'11		1474 Jun 12 j 03:52	0° \mathfrak{E}	
morning rise	1472 Jan 19 j 21:02	1° \mathfrak{A} 58'15			1474 Jul 06 j 13:12	0° Ω	
	1472 Jan 23 j 11:49	30° \mathfrak{R} 3		evening rise	1474 Jul 15 j 05:08	10° Ω 40'23	
direct	1472 Feb 05 j 08:10	26° \mathfrak{Z} 39'09			1474 Jul 30 j 21:28	0° \mathfrak{M}	
greatest brilliancy	1472 Feb 14 j 10:00	28° \mathfrak{Z} 12'24	-4.9m		1474 Aug 24 j 05:38	0° \mathfrak{A}	
	1472 Feb 18 j 22:29	0° \mathfrak{A}			1474 Sep 17 j 15:01	0° \mathfrak{M}	
morning max el	1472 Mar 25 j 23:59	28° \mathfrak{A} 06'23	46°19'27	desc. node	1474 Sep 19 j 21:07	2° \mathfrak{M} 46'06	
	1472 Mar 27 j 22:09	0° \mathfrak{H}			1474 Oct 12 j 02:47	0° \mathfrak{X}	
desc. node	1472 Apr 04 j 01:56	7° \mathfrak{H} 14'13			1474 Nov 05 j 18:44	0° \mathfrak{Z}	
	1472 Apr 25 j 08:13	0° Υ			1474 Nov 30 j 19:44	0° \mathfrak{A}	
	1472 May 21 j 21:15	0° \mathfrak{B}			1474 Dec 26 j 19:08	0° \mathfrak{H}	
	1472 Jun 16 j 14:31	0° \mathfrak{I}		asc. node	1475 Jan 11 j 00:23	16° \mathfrak{H} 31'19	
	1472 Jul 11 j 19:09	0° \mathfrak{E}		evening max el	1475 Jan 16 j 04:25	21° \mathfrak{H} 51'08	46°53'37
asc. node	1472 Jul 26 j 05:20	17° \mathfrak{E} 24'55			1475 Jan 24 j 11:42	0° Υ	
	1472 Aug 05 j 13:22	0° Ω		greatest brilliancy	1475 Feb 25 j 00:40	22° Υ 38'20	-4.8m
	1472 Aug 29 j 22:41	0° \mathfrak{M}		retrograde	1475 Mar 07 j 15:42	24° Υ 44'44	
morning set	1472 Sep 19 j 18:45	25° \mathfrak{M} 54'41		evening set	1475 Mar 24 j 17:32	19° Υ 03'01	
	1472 Sep 23 j 01:19	0° \mathfrak{A}		inferior conj	1475 Mar 28 j 20:09	16° Υ 29'33	7°05'47
	1472 Oct 16 j 23:58	0° \mathfrak{M}		minimum elong	1475 Mar 29 j 05:28	16° Υ 14'49	7°04'11
max. Earth dist.	1472 Oct 27 j 02:41	12° \mathfrak{M} 42'05	1.71296 AU	min. Earth dist.	1475 Mar 28 j 17:06	16° Υ 34'21	0.28471 AU
				morning rise	1475 Apr 02 j 17:45	13° Υ 29'02	
superior conj	1472 Oct 28 j 11:56	14° \mathfrak{M} 26'35	0°39'44	direct	1475 Apr 19 j 02:00	8° Υ 20'29	
minimum elong	1472 Oct 28 j 20:53	14° \mathfrak{M} 54'41	0°39'21	greatest brilliancy	1475 Apr 28 j 16:43	10° Υ 02'25	-4.7m
	1472 Nov 09 j 20:55	0° \mathfrak{X}		desc. node	1475 May 02 j 13:38	11° Υ 34'11	
desc. node	1472 Nov 14 j 18:49	6° \mathfrak{X} 10'33			1475 May 28 j 21:06	0° \mathfrak{B}	
	1472 Dec 03 j 17:39	0° \mathfrak{Z}		morning max el	1475 Jun 06 j 22:43	8° \mathfrak{B} 20'37	45°45'38
evening rise	1472 Dec 08 j 15:22	6° \mathfrak{Z} 09'50			1475 Jun 28 j 06:59	0° \mathfrak{I}	
	1472 Dec 27 j 15:13	0° \mathfrak{A}			1475 Jul 25 j 10:37	0° \mathfrak{E}	
	1473 Jan 20 j 15:08	0° \mathfrak{H}			1475 Aug 20 j 05:02	0° Ω	
	1473 Feb 13 j 19:54	0° Υ		asc. node	1475 Aug 23 j 17:21	4° Ω 10'39	
asc. node	1473 Mar 07 j 22:12	27° Υ 01'51			1475 Sep 14 j 03:08	0° \mathfrak{M}	
	1473 Mar 10 j 09:00	0° \mathfrak{B}			1475 Oct 08 j 11:59	0° \mathfrak{A}	
	1473 Apr 04 j 11:11	0° \mathfrak{I}			1475 Nov 01 j 13:01	0° \mathfrak{M}	
	1473 Apr 30 j 10:25	0° \mathfrak{E}			1475 Nov 25 j 10:21	0° \mathfrak{X}	
	1473 May 28 j 02:35	0° Ω		morning set	1475 Dec 03 j 19:12	10° \mathfrak{X} 31'46	
evening max el	1473 Jun 09 j 05:29	12° Ω 03'16	45°24'22	desc. node	1475 Dec 13 j 06:30	22° \mathfrak{X} 26'42	
desc. node	1473 Jun 27 j 11:22	27° Ω 57'33			1475 Dec 19 j 06:37	0° \mathfrak{Z}	
	1473 Jun 30 j 04:40	0° \mathfrak{M}			1476 Jan 12 j 03:19	0° \mathfrak{A}	
greatest brilliancy	1473 Jul 17 j 21:48	9° \mathfrak{M} 51'01	-4.7m				
retrograde	1473 Jul 27 j 20:10	11° \mathfrak{M} 36'58		superior conj	1476 Jan 14 j 15:11	3° \mathfrak{A} 07'54	-1°07'23
evening set	1473 Aug 14 j 14:35	5° \mathfrak{M} 43'30		minimum elong	1476 Jan 14 j 03:31	2° \mathfrak{A} 31'18	1°07'01
inferior conj	1473 Aug 18 j 02:16	3° \mathfrak{M} 36'00	-8°35'21	max. Earth dist.	1476 Jan 17 j 21:23	7° \mathfrak{A} 13'14	1.71334 AU
minimum elong	1473 Aug 17 j 22:55	3° \mathfrak{M} 41'10	8°35'11		1476 Feb 05 j 01:40	0° \mathfrak{H}	
min. Earth dist.	1473 Aug 18 j 13:44	3° \mathfrak{M} 18'15	0.28502 AU	evening rise	1476 Feb 24 j 08:44	24° \mathfrak{H} 04'29	

	1476 Feb 29 j 03:04	0° Υ		asc. node	1478 Sep 20 j 05:10	22° Ω 51'25	
	1476 Mar 24 j 09:00	0° \mathcal{B}			1478 Sep 26 j 11:01	0° \mathcal{M}	
asc. node	1476 Apr 04 j 10:09	13° \mathcal{B} 34'34			1478 Oct 21 j 20:25	0° \mathcal{L}	
	1476 Apr 17 j 20:47	0° Π			1478 Nov 15 j 10:03	0° \mathcal{M}	
	1476 May 12 j 15:47	0° \mathcal{E}			1478 Dec 09 j 14:18	0° \mathcal{X}	
	1476 Jun 06 j 20:27	0° Ω			1479 Jan 02 j 14:55	0° \mathcal{Z}	
	1476 Jul 02 j 16:14	0° \mathcal{M}		desc. node	1479 Jan 09 j 18:28	8° \mathcal{Z} 56'04	
desc. node	1476 Jul 24 j 23:15	24° \mathcal{M} 55'01			1479 Jan 26 j 14:55	0° \approx	
	1476 Jul 29 j 15:59	0° \mathcal{L}		morning set	1479 Feb 18 j 22:10	29° \approx 04'45	
evening max el	1476 Aug 20 j 18:21	22° \mathcal{L} 40'29	46°16'12		1479 Feb 19 j 15:54	0° \mathcal{H}	
	1476 Aug 28 j 13:48	0° \mathcal{M}			1479 Mar 15 j 18:52	0° Υ	
greatest brilliancy	1476 Sep 30 j 03:02	21° \mathcal{M} 59'39	-4.8m				
retrograde	1476 Oct 09 j 05:48	23° \mathcal{M} 31'58		superior conj	1479 Mar 30 j 03:24	17° Υ 47'23	-1°09'11
evening set	1476 Oct 24 j 12:14	19° \mathcal{M} 02'49		minimum elong	1479 Mar 30 j 13:07	18° Υ 17'24	1°08'54
inferior conj	1476 Oct 29 j 21:36	15° \mathcal{M} 52'57	-4°02'10	max. Earth dist.	1479 Apr 02 j 05:53	21° Υ 37'41	1.72832 AU
minimum elong	1476 Oct 30 j 06:01	15° \mathcal{M} 40'07	3°59'44		1479 Apr 09 j 00:31	0° \mathcal{B}	
min. Earth dist.	1476 Oct 30 j 12:29	15° \mathcal{M} 30'16	0.26711 AU	asc. node	1479 May 02 j 21:56	29° \mathcal{B} 25'51	
morning rise	1476 Nov 04 j 23:13	12° \mathcal{M} 19'49			1479 May 03 j 09:03	0° Π	
asc. node	1476 Nov 15 j 02:36	8° \mathcal{M} 33'00		evening rise	1479 May 07 j 00:40	4° Π 29'02	
direct	1476 Nov 19 j 11:06	8° \mathcal{M} 09'40			1479 May 27 j 20:13	0° \mathcal{E}	
greatest brilliancy	1476 Nov 30 j 05:53	10° \mathcal{M} 21'05	-4.9m		1479 Jun 21 j 10:02	0° Ω	
	1476 Dec 28 j 06:43	0° \mathcal{X}			1479 Jul 16 j 03:20	0° \mathcal{M}	
morning max el	1477 Jan 09 j 02:46	11° \mathcal{X} 28'03	46°55'55		1479 Aug 10 j 02:08	0° \mathcal{L}	
	1477 Jan 26 j 14:04	0° \mathcal{Z}		desc. node	1479 Aug 22 j 11:12	14° \mathcal{L} 44'15	
	1477 Feb 22 j 00:50	0° \approx			1479 Sep 04 j 09:42	0° \mathcal{M}	
desc. node	1477 Mar 06 j 16:12	14° \approx 46'38			1479 Sep 30 j 08:29	0° \mathcal{X}	
	1477 Mar 19 j 13:07	0° \mathcal{H}			1479 Oct 27 j 17:03	0° \mathcal{Z}	
	1477 Apr 13 j 15:50	0° Υ		evening max el	1479 Nov 02 j 20:38	6° \mathcal{Z} 19'19	47°16'33
	1477 May 08 j 13:47	0° \mathcal{B}			1479 Nov 29 j 12:22	0° \approx	
	1477 Jun 02 j 08:21	0° Π		greatest brilliancy	1479 Dec 13 j 11:25	7° \approx 49'24	-4.9m
	1477 Jun 26 j 23:13	0° \mathcal{E}		asc. node	1479 Dec 13 j 14:34	7° \approx 52'21	
asc. node	1477 Jun 27 j 19:34	1° \mathcal{E} 02'12		retrograde	1479 Dec 23 j 18:04	9° \approx 51'09	
morning set	1477 Jul 10 j 07:25	16° \mathcal{E} 21'04		evening set	1480 Jan 08 j 11:29	4° \approx 55'08	
	1477 Jul 21 j 09:39	0° Ω		min. Earth dist.	1480 Jan 12 j 12:29	2° \approx 29'49	0.26936 AU
max. Earth dist.	1477 Aug 12 j 03:54	26° Ω 54'16	1.72741 AU	inferior conj	1480 Jan 13 j 10:18	1° \approx 56'07	6°55'54
	1477 Aug 14 j 15:47	0° \mathcal{M}		minimum elong	1480 Jan 13 j 00:07	2° \approx 11'51	6°53'52
					1480 Jan 16 j 14:29	30° \mathcal{R} \mathcal{Z}	
superior conj	1477 Aug 15 j 18:14	1° \mathcal{M} 22'03	1°23'10	morning rise	1480 Jan 17 j 13:09	29° \mathcal{Z} 26'43	
minimum elong	1477 Aug 15 j 14:46	1° \mathcal{M} 11'18	1°23'08	direct	1480 Feb 02 j 21:02	24° \mathcal{Z} 12'41	
	1477 Sep 07 j 18:45	0° \mathcal{L}		greatest brilliancy	1480 Feb 11 j 22:33	25° \mathcal{Z} 46'13	-4.9m
evening rise	1477 Sep 22 j 00:59	17° \mathcal{L} 46'40			1480 Feb 21 j 03:01	0° \approx	
	1477 Oct 01 j 20:08	0° \mathcal{M}		morning max el	1480 Mar 23 j 14:37	25° \approx 47'24	46°21'00
desc. node	1477 Oct 17 j 08:59	19° \mathcal{M} 23'11			1480 Mar 27 j 20:25	0° \mathcal{H}	
	1477 Oct 25 j 21:13	0° \mathcal{X}		desc. node	1480 Apr 03 j 03:57	6° \mathcal{H} 27'20	
	1477 Nov 18 j 22:56	0° \mathcal{Z}			1480 Apr 25 j 00:18	0° Υ	
	1477 Dec 13 j 02:45	0° \approx			1480 May 21 j 10:55	0° \mathcal{B}	
	1478 Jan 06 j 11:56	0° \mathcal{H}			1480 Jun 16 j 02:58	0° Π	
	1478 Jan 31 j 08:51	0° Υ			1480 Jul 11 j 06:54	0° \mathcal{E}	
asc. node	1478 Feb 07 j 12:18	8° Υ 26'26		asc. node	1480 Jul 25 j 07:30	16° \mathcal{E} 56'42	
	1478 Feb 26 j 05:42	0° \mathcal{B}			1480 Aug 05 j 00:43	0° Ω	
	1478 Mar 26 j 09:11	0° Π			1480 Aug 29 j 09:50	0° \mathcal{M}	
evening max el	1478 Mar 28 j 04:12	1° Π 45'39	45°45'17	morning set	1480 Sep 17 j 10:02	23° \mathcal{M} 38'04	
greatest brilliancy	1478 May 05 j 04:46	0° \mathcal{E} 04'15	-4.7m		1480 Sep 22 j 12:25	0° \mathcal{L}	
	1478 May 05 j 00:20	0° \mathcal{E}			1480 Oct 16 j 11:07	0° \mathcal{M}	
retrograde	1478 May 16 j 03:51	2° \mathcal{E} 15'11		max. Earth dist.	1480 Oct 24 j 11:14	10° \mathcal{M} 03'06	1.71331 AU
	1478 May 26 j 19:48	30° \mathcal{R} Π					
desc. node	1478 May 30 j 01:28	28° Π 29'24		superior conj	1480 Oct 25 j 23:59	11° \mathcal{M} 58'29	0°43'03
evening set	1478 May 31 j 05:22	27° Π 52'26		minimum elong	1480 Oct 26 j 09:22	12° \mathcal{M} 27'59	0°42'38
inferior conj	1478 Jun 06 j 15:57	24° Π 01'22	-1°46'37		1480 Nov 09 j 08:09	0° \mathcal{X}	
minimum elong	1478 Jun 06 j 12:05	24° Π 07'25	1°45'30	desc. node	1480 Nov 13 j 20:49	5° \mathcal{X} 41'28	
min. Earth dist.	1478 Jun 06 j 15:44	24° Π 01'42	0.28968 AU		1480 Dec 03 j 04:59	0° \mathcal{Z}	
morning rise	1478 Jun 12 j 18:41	20° Π 20'09		evening rise	1480 Dec 06 j 01:20	3° \mathcal{Z} 34'45	
direct	1478 Jun 28 j 06:27	15° Π 43'38			1480 Dec 27 j 02:38	0° \approx	
greatest brilliancy	1478 Jul 08 j 17:58	17° Π 41'05	-4.7m		1481 Jan 20 j 02:40	0° \mathcal{H}	
	1478 Jul 29 j 09:30	0° \mathcal{E}			1481 Feb 13 j 07:37	0° Υ	
morning max el	1478 Aug 16 j 05:52	15° \mathcal{E} 44'01	45°56'02	asc. node	1481 Mar 07 j 00:15	26° Υ 31'19	
	1478 Aug 30 j 08:38	0° Ω			1481 Mar 09 j 21:10	0° \mathcal{B}	

	1481 Apr 04 j 00:12	0°♐			1483 Nov 01 j 00:14	0°♐
	1481 Apr 30 j 01:13	0°♐			1483 Nov 24 j 21:29	0°♐
	1481 May 27 j 21:50	0°♐	morning set		1483 Dec 01 j 05:51	7°♐59'20
evening max el	1481 Jun 06 j 21:22	9°♐51'56 45°23'45	desc. node		1483 Dec 12 j 08:41	21°♐58'44
desc. node	1481 Jun 26 j 13:32	26°♐50'56			1483 Dec 18 j 17:41	0°♐
	1481 Jun 30 j 23:24	0°♐			1484 Jan 11 j 14:21	0°♐
greatest brilliancy	1481 Jul 15 j 11:23	7°♐36'38 -4.7m				
retrograde	1481 Jul 25 j 10:46	9°♐23'13	superior conj		1484 Jan 12 j 01:26	0°♐34'49 -1°04'50
evening set	1481 Aug 12 j 03:15	3°♐33'20	minimum elong		1484 Jan 11 j 13:35	29°♐57'35 1°04'27
inferior conj	1481 Aug 15 j 17:28	1°♐21'45 -8°31'12	max. Earth dist.		1484 Jan 15 j 02:25	4°♐23'50 1.71299 AU
minimum elong	1481 Aug 15 j 13:22	1°♐28'06 8°30'57			1484 Feb 04 j 12:42	0°♐
min. Earth dist.	1481 Aug 16 j 03:59	1°♐05'28 0.28543 AU	evening rise		1484 Feb 21 j 20:38	21°♐37'45
	1481 Aug 17 j 22:28	30°♐♐			1484 Feb 28 j 14:07	0°♐
morning rise	1481 Aug 18 j 23:20	29°♐22'19			1484 Mar 23 j 20:07	0°♐
direct	1481 Sep 06 j 04:54	23°♐10'34	asc. node		1484 Apr 03 j 12:06	13°♐06'16
greatest brilliancy	1481 Sep 17 j 02:30	25°♐21'47 -4.8m			1484 Apr 17 j 08:05	0°♐
	1481 Sep 26 j 06:16	0°♐			1484 May 12 j 03:31	0°♐
asc. node	1481 Oct 17 j 16:49	17°♐02'48			1484 Jun 06 j 09:01	0°♐
morning max el	1481 Oct 26 j 11:47	25°♐36'07 46°38'05			1484 Jul 02 j 06:24	0°♐
	1481 Oct 30 j 18:57	0°♐	desc. node		1484 Jul 24 j 01:18	24°♐15'09
	1481 Nov 26 j 23:05	0°♐			1484 Jul 29 j 09:35	0°♐
	1481 Dec 22 j 08:41	0°♐	evening max el		1484 Aug 18 j 06:32	20°♐16'49 46°13'42
	1482 Jan 16 j 02:13	0°♐			1484 Aug 28 j 18:32	0°♐
desc. node	1482 Feb 06 j 06:21	25°♐56'58	greatest brilliancy		1484 Sep 27 j 16:08	19°♐34'37 -4.8m
	1482 Feb 09 j 13:28	0°♐	retrograde		1484 Oct 06 j 17:41	21°♐06'18
	1482 Mar 05 j 22:39	0°♐	evening set		1484 Oct 22 j 03:25	16°♐32'47
	1482 Mar 30 j 07:47	0°♐	inferior conj		1484 Oct 27 j 10:08	13°♐26'53 -4°23'11
	1482 Apr 23 j 17:44	0°♐	minimum elong		1484 Oct 27 j 19:07	13°♐13'15 4°20'40
morning set	1482 May 01 j 09:09	9°♐22'53	min. Earth dist.		1484 Oct 28 j 02:28	13°♐02'03 0.26760 AU
	1482 May 18 j 04:20	0°♐	morning rise		1484 Nov 02 j 10:08	9°♐55'57
asc. node	1482 May 30 j 09:47	15°♐00'32	asc. node		1484 Nov 14 j 04:40	5°♐52'04
max. Earth dist.	1482 Jun 06 j 08:50	23°♐33'19 1.73611 AU	direct		1484 Nov 16 j 23:51	5°♐42'25
			greatest brilliancy		1484 Nov 27 j 20:49	7°♐56'01 -4.9m
superior conj	1482 Jun 07 j 03:16	24°♐29'57 0°18'14			1484 Dec 28 j 10:54	0°♐
minimum elong	1482 Jun 06 j 23:36	24°♐18'42 0°18'04	morning max el		1485 Jan 06 j 16:21	9°♐02'51 46°56'30
	1482 Jun 11 j 14:44	0°♐			1485 Jan 26 j 07:51	0°♐
	1482 Jul 06 j 00:07	0°♐			1485 Feb 21 j 15:22	0°♐
evening rise	1482 Jul 12 j 23:52	8°♐36'25	desc. node		1485 Mar 05 j 18:12	14°♐12'16
	1482 Jul 30 j 08:32	0°♐			1485 Mar 19 j 02:05	0°♐
	1482 Aug 23 j 16:59	0°♐			1485 Apr 13 j 03:54	0°♐
	1482 Sep 17 j 02:45	0°♐			1485 May 08 j 01:15	0°♐
desc. node	1482 Sep 18 j 23:07	2°♐16'06			1485 Jun 01 j 19:25	0°♐
	1482 Oct 11 j 15:04	0°♐			1485 Jun 26 j 10:00	0°♐
	1482 Nov 05 j 07:50	0°♐	asc. node		1485 Jun 26 j 21:43	0°♐35'48
	1482 Nov 30 j 10:10	0°♐	morning set		1485 Jul 08 j 01:13	14°♐15'23
	1482 Dec 26 j 12:24	0°♐			1485 Jul 20 j 20:20	0°♐
asc. node	1483 Jan 10 j 02:28	15°♐43'08	max. Earth dist.		1485 Aug 10 j 00:05	24°♐54'55 1.72792 AU
evening max el	1483 Jan 13 j 19:08	19°♐30'54 46°55'34				
	1483 Jan 24 j 14:07	0°♐	superior conj		1485 Aug 13 j 11:32	29°♐13'36 1°22'28
greatest brilliancy	1483 Feb 22 j 17:42	20°♐24'12 -4.8m	minimum elong		1485 Aug 13 j 07:25	29°♐00'52 1°22'26
retrograde	1483 Mar 05 j 07:07	22°♐29'20			1485 Aug 14 j 02:29	0°♐
evening set	1483 Mar 22 j 12:00	16°♐43'59			1485 Sep 07 j 05:34	0°♐
inferior conj	1483 Mar 26 j 11:44	14°♐14'43 7°17'41	evening rise		1485 Sep 19 j 15:36	15°♐28'38
minimum elong	1483 Mar 26 j 20:47	14°♐00'23 7°16'14			1485 Oct 01 j 07:08	0°♐
min. Earth dist.	1483 Mar 26 j 08:21	14°♐20'05 0.28435 AU	desc. node		1485 Oct 16 j 11:00	18°♐54'42
morning rise	1483 Mar 31 j 05:53	11°♐18'56			1485 Oct 25 j 08:26	0°♐
direct	1483 Apr 16 j 16:49	6°♐06'26			1485 Nov 18 j 10:24	0°♐
greatest brilliancy	1483 Apr 26 j 06:56	7°♐47'31 -4.7m			1485 Dec 12 j 14:33	0°♐
desc. node	1483 May 01 j 15:36	10°♐00'47			1486 Jan 06 j 00:14	0°♐
	1483 May 28 j 23:51	0°♐			1486 Jan 30 j 22:05	0°♐
morning max el	1483 Jun 04 j 13:04	6°♐05'52 45°46'07	asc. node		1486 Feb 06 j 14:17	7°♐52'14
	1483 Jun 27 j 23:50	0°♐			1486 Feb 25 j 21:00	0°♐
	1483 Jul 25 j 00:26	0°♐	evening max el		1486 Mar 25 j 20:01	29°♐34'24 45°47'14
	1483 Aug 19 j 17:29	0°♐			1486 Mar 26 j 06:31	0°♐
asc. node	1483 Aug 22 j 19:17	3°♐39'38	greatest brilliancy		1486 May 02 j 20:31	27°♐55'14 -4.7m
	1483 Sep 13 j 14:54	0°♐			1486 May 11 j 08:16	0°♐
	1483 Oct 07 j 23:23	0°♐	retrograde		1486 May 13 j 20:54	0°♐07'25

	1486 May 16 j 08:49	30° $\text{R}\Pi$		superior conj	1488 Oct 23 j 12:16	9° M 32'31	0°46'15
evening set	1486 May 28 j 21:51	25° II 44'18		minimum elong	1488 Oct 23 j 22:01	10° M 03'08	0°45'50
desc. node	1486 May 29 j 03:39	25° II 36'22			1488 Nov 08 j 18:59	0° X	
inferior conj	1486 Jun 04 j 08:26	21° II 58'11	-1°27'12	desc. node	1488 Nov 12 j 22:57	5° X 14'06	
minimum elong	1486 Jun 04 j 05:15	21° II 58'10	1°26'17		1488 Dec 02 j 15:56	0° Z	
min. Earth dist.	1486 Jun 04 j 08:06	21° II 53'43	0.28964 AU	evening rise	1488 Dec 03 j 11:24	1° Z 01'09	
morning rise	1486 Jun 10 j 12:38	18° II 10'17			1488 Dec 26 j 13:42	0° \approx	
direct	1486 Jun 25 j 23:03	13° II 35'26			1489 Jan 19 j 13:50	0° X	
greatest brilliancy	1486 Jul 06 j 10:02	15° II 32'57	-4.7m		1489 Feb 12 j 19:02	0° Y	
	1486 Jul 29 j 18:08	0° G		asc. node	1489 Mar 06 j 02:14	26° Y 01'42	
morning max el	1486 Aug 13 j 22:34	13° G 35'50	45°54'54		1489 Mar 09 j 09:00	0° B	
	1486 Aug 30 j 02:16	0° Ω			1489 Apr 03 j 12:53	0° II	
asc. node	1486 Sep 19 j 07:11	22° Ω 15'25			1489 Apr 29 j 15:42	0° G	
	1486 Sep 26 j 01:08	0° M			1489 May 27 j 17:06	0° Ω	
	1486 Oct 21 j 09:05	0° L		evening max el	1489 Jun 04 j 12:24	7° Ω 39'54	45°23'08
	1486 Nov 14 j 22:00	0° M		desc. node	1489 Jun 25 j 15:33	25° Ω 43'35	
	1486 Dec 09 j 01:51	0° X			1489 Jul 01 j 23:56	0° M	
	1487 Jan 02 j 02:12	0° Z		greatest brilliancy	1489 Jul 13 j 01:29	5° M 24'11	-4.7m
desc. node	1487 Jan 08 j 20:31	8° Z 27'28		retrograde	1489 Jul 23 j 01:04	7° M 11'06	
	1487 Jan 26 j 01:59	0° \approx		evening set	1489 Aug 09 j 15:46	1° M 25'05	
morning set	1487 Feb 16 j 10:11	26° \approx 38'40			1489 Aug 11 j 23:57	30° $\text{R}\Omega$	
	1487 Feb 19 j 02:46	0° X		inferior conj	1489 Aug 13 j 08:48	29° Ω 09'09	-8°26'12
	1487 Mar 15 j 05:35	0° Y		minimum elong	1489 Aug 13 j 03:58	29° Ω 16'38	8°25'53
				min. Earth dist.	1489 Aug 13 j 18:41	28° Ω 53'48	0.28585 AU
superior conj	1487 Mar 27 j 18:28	15° Y 32'30	-1°11'11	morning rise	1489 Aug 16 j 16:01	27° Ω 07'26	
minimum elong	1487 Mar 28 j 03:59	16° Y 01'58	1°10'56	direct	1489 Sep 03 j 20:30	20° Ω 57'24	
max. Earth dist.	1487 Mar 30 j 23:29	19° Y 30'48	1.72784 AU	greatest brilliancy	1489 Sep 14 j 17:53	23° Ω 07'43	-4.8m
	1487 Apr 08 j 11:08	0° B			1489 Sep 27 j 08:30	0° M	
asc. node	1487 May 02 j 00:03	28° B 59'44		asc. node	1489 Oct 16 j 18:56	16° M 07'55	
	1487 May 02 j 19:40	0° II		morning max el	1489 Oct 24 j 01:15	23° M 14'16	46°36'36
evening rise	1487 May 04 j 18:07	2° II 22'37			1489 Oct 30 j 14:56	0° L	
	1487 May 27 j 06:59	0° G			1489 Nov 26 j 14:20	0° M	
	1487 Jun 20 j 21:04	0° Ω			1489 Dec 21 j 22:05	0° X	
	1487 Jul 15 j 14:50	0° M			1490 Jan 15 j 14:38	0° Z	
	1487 Aug 09 j 14:23	0° L		desc. node	1490 Feb 05 j 08:18	25° Z 26'32	
desc. node	1487 Aug 21 j 13:10	14° L 12'09			1490 Feb 09 j 01:15	0° \approx	
	1487 Sep 03 j 23:13	0° M			1490 Mar 05 j 10:00	0° X	
	1487 Sep 30 j 00:17	0° X			1490 Mar 29 j 18:49	0° Y	
	1487 Oct 27 j 14:13	0° Z			1490 Apr 23 j 04:31	0° B	
evening max el	1487 Oct 31 j 11:49	3° Z 58'47	47°15'30	morning set	1490 Apr 29 j 02:22	7° B 15'34	
	1487 Nov 30 j 16:04	0° \approx			1490 May 17 j 14:57	0° II	
greatest brilliancy	1487 Dec 11 j 00:38	5° \approx 21'59	-4.9m	asc. node	1490 May 29 j 11:55	14° II 34'44	
asc. node	1487 Dec 12 j 16:43	5° \approx 57'01		max. Earth dist.	1490 Jun 04 j 05:09	21° II 35'58	1.73608 AU
retrograde	1487 Dec 21 j 07:53	7° \approx 23'46					
evening set	1488 Jan 05 j 20:54	2° \approx 33'35		superior conj	1490 Jun 04 j 21:36	22° II 26'31	0°15'10
min. Earth dist.	1488 Jan 10 j 01:17	0° \approx 03'24	0.26879 AU	minimum elong	1490 Jun 04 j 18:32	22° II 17'05	0°15'01
	1488 Jan 10 j 03:30	30° RZ		behind sun begin	1490 Jun 04 j 11:23	21° II 55'08	
inferior conj	1488 Jan 10 j 23:08	29° Z 29'41	6°40'54	behind sun end	1490 Jun 05 j 01:41	22° II 39'03	
minimum elong	1488 Jan 10 j 12:48	29° Z 45'39	6°38'44		1490 Jun 11 j 01:16	0° G	
morning rise	1488 Jan 15 j 05:11	26° Z 55'55			1490 Jul 05 j 10:42	0° Ω	
direct	1488 Jan 31 j 10:09	21° Z 47'19		evening rise	1490 Jul 10 j 18:49	6° Ω 34'16	
greatest brilliancy	1488 Feb 09 j 11:03	23° Z 20'47	-4.9m		1490 Jul 29 j 19:18	0° M	
	1488 Feb 22 j 13:04	0° \approx			1490 Aug 23 j 04:04	0° L	
morning max el	1488 Mar 21 j 04:38	23° \approx 28'02	46°22'39		1490 Sep 16 j 14:18	0° M	
	1488 Mar 27 j 17:21	0° X		desc. node	1490 Sep 18 j 01:09	1° M 46'51	
desc. node	1488 Apr 02 j 05:58	5° X 42'25			1490 Oct 11 j 03:12	0° X	
	1488 Apr 24 j 15:37	0° Y			1490 Nov 04 j 20:48	0° Z	
	1488 May 20 j 23:59	0° B			1490 Nov 30 j 00:32	0° \approx	
	1488 Jun 15 j 14:53	0° II			1490 Dec 26 j 05:46	0° X	
	1488 Jul 10 j 18:11	0° G		asc. node	1491 Jan 09 j 04:27	14° X 54'37	
asc. node	1488 Jul 24 j 09:27	16° G 29'03		evening max el	1491 Jan 11 j 08:45	17° X 08'28	46°57'35
	1488 Aug 04 j 11:40	0° Ω			1491 Jan 24 j 17:48	0° Y	
	1488 Aug 28 j 20:36	0° M		greatest brilliancy	1491 Feb 20 j 10:33	18° Y 10'13	-4.8m
morning set	1488 Sep 15 j 01:25	21° M 22'55		retrograde	1491 Mar 02 j 22:22	20° Y 14'28	
	1488 Sep 21 j 23:08	0° L		evening set	1491 Mar 20 j 06:19	14° Y 25'13	
	1488 Oct 15 j 21:51	0° M		inferior conj	1491 Mar 24 j 03:16	12° Y 00'15	7°28'58
max. Earth dist.	1488 Oct 21 j 18:17	7° M 20'41	1.71365 AU	minimum elong	1491 Mar 24 j 11:58	11° Y 46'29	7°27'39

min. Earth dist.	1491 Mar 23 j 23:37	12° Υ 06'02	0.28400 AU	desc. node	1493 Oct 15 j 13:10	18° \mathbb{M} 26'34	
morning rise	1491 Mar 28 j 17:53	9° Υ 09'27			1493 Oct 24 j 19:43	0° \mathcal{X}	
direct	1491 Apr 14 j 07:13	3° Υ 52'27			1493 Nov 17 j 22:00	0° \mathcal{Z}	
greatest brilliancy	1491 Apr 23 j 21:37	5° Υ 33'28	-4.8m		1493 Dec 12 j 02:33	0° \approx	
desc. node	1491 Apr 30 j 17:47	8° Υ 31'16			1494 Jan 05 j 12:48	0° \mathcal{H}	
	1491 May 29 j 00:56	0° \mathcal{B}			1494 Jan 30 j 11:40	0° Υ	
morning max el	1491 Jun 02 j 03:34	3° \mathcal{B} 51'55	45°46'50	asc. node	1494 Feb 05 j 16:19	7° Υ 17'14	
	1491 Jun 27 j 16:07	0° \mathbb{I}			1494 Feb 25 j 12:48	0° \mathcal{B}	
	1491 Jul 24 j 13:53	0° \mathcal{E}		evening max el	1494 Mar 23 j 12:18	27° \mathcal{B} 23'23	45°49'20
	1491 Aug 19 j 05:38	0° \mathcal{O}			1494 Mar 26 j 05:03	0° \mathbb{I}	
asc. node	1491 Aug 21 j 21:21	3° \mathcal{O} 09'50		greatest brilliancy	1494 Apr 30 j 12:26	25° \mathbb{I} 45'37	-4.7m
	1491 Sep 13 j 02:25	0° \mathbb{P}		retrograde	1494 May 11 j 13:55	27° \mathbb{I} 58'26	
	1491 Oct 07 j 10:37	0° \mathcal{L}		evening set	1494 May 26 j 14:26	23° \mathbb{I} 35'02	
	1491 Oct 31 j 11:21	0° \mathbb{M}		desc. node	1494 May 28 j 05:41	22° \mathbb{I} 39'35	
	1491 Nov 24 j 08:32	0° \mathcal{X}		inferior conj	1494 Jun 02 j 00:46	19° \mathbb{I} 43'49	-1°07'38
morning set	1491 Nov 28 j 16:18	5° \mathcal{X} 26'24		minimum elong	1494 Jun 01 j 22:17	19° \mathbb{I} 47'41	1°06'54
desc. node	1491 Dec 11 j 10:44	21° \mathcal{X} 30'33		min. Earth dist.	1494 Jun 02 j 00:09	19° \mathbb{I} 44'47	0.28957 AU
	1491 Dec 18 j 04:41	0° \mathcal{Z}		morning rise	1494 Jun 08 j 06:16	15° \mathbb{I} 59'20	
				direct	1494 Jun 23 j 15:50	11° \mathbb{I} 26'15	
superior conj	1492 Jan 09 j 11:14	28° \mathcal{Z} 00'28	-1°02'08	greatest brilliancy	1494 Jul 04 j 01:22	13° \mathbb{I} 22'57	-4.7m
minimum elong	1492 Jan 08 j 23:16	27° \mathcal{Z} 22'54	1°01'44		1494 Jul 30 j 00:42	0° \mathcal{E}	
	1492 Jan 11 j 01:18	0° \approx		morning max el	1494 Aug 11 j 15:08	11° \mathcal{E} 26'40	45°53'53
max. Earth dist.	1492 Jan 12 j 05:51	1° \approx 29'38	1.71265 AU		1494 Aug 29 j 19:47	0° \mathcal{O}	
	1492 Feb 03 j 23:38	0° \mathcal{H}		asc. node	1494 Sep 18 j 09:16	21° \mathcal{O} 39'19	
evening rise	1492 Feb 19 j 08:11	19° \mathcal{H} 10'14			1494 Sep 25 j 15:18	0° \mathbb{P}	
	1492 Feb 28 j 01:04	0° Υ			1494 Oct 20 j 21:51	0° \mathcal{L}	
	1492 Mar 23 j 07:10	0° \mathcal{B}			1494 Nov 14 j 10:04	0° \mathbb{M}	
asc. node	1492 Apr 02 j 14:15	12° \mathcal{B} 38'45			1494 Dec 08 j 13:31	0° \mathcal{X}	
	1492 Apr 16 j 19:22	0° \mathbb{I}			1495 Jan 01 j 13:39	0° \mathcal{Z}	
	1492 May 11 j 15:15	0° \mathcal{E}		desc. node	1495 Jan 07 j 22:29	7° \mathcal{Z} 57'56	
	1492 Jun 05 j 21:36	0° \mathcal{O}			1495 Jan 25 j 13:17	0° \approx	
desc. node	1492 Jul 01 j 20:37	0° \mathbb{P}		morning set	1495 Feb 13 j 21:43	24° \approx 10'09	
	1492 Jul 23 j 03:19	23° \mathbb{P} 35'04			1495 Feb 18 j 13:55	0° \mathcal{H}	
	1492 Jul 29 j 03:27	0° \mathcal{L}			1495 Mar 14 j 16:36	0° Υ	
evening max el	1492 Aug 15 j 19:10	17° \mathcal{L} 54'54	46°11'16				
	1492 Aug 29 j 01:08	0° \mathbb{M}		superior conj	1495 Mar 25 j 08:56	13° Υ 14'38	-1°13'07
greatest brilliancy	1492 Sep 25 j 04:23	17° \mathbb{M} 09'18	-4.8m	minimum elong	1495 Mar 25 j 18:11	13° Υ 43'16	1°12'52
retrograde	1492 Oct 04 j 06:04	18° \mathbb{M} 41'08		max. Earth dist.	1495 Mar 28 j 17:47	17° Υ 24'57	1.72733 AU
evening set	1492 Oct 19 j 18:42	14° \mathbb{M} 02'54			1495 Apr 07 j 22:05	0° \mathcal{B}	
inferior conj	1492 Oct 24 j 22:40	11° \mathbb{M} 00'54	-4°43'32	asc. node	1495 May 01 j 02:06	28° \mathcal{B} 32'23	
minimum elong	1492 Oct 25 j 08:06	10° \mathbb{M} 46'35	4°40'58	evening rise	1495 May 02 j 11:02	0° \mathbb{I} 13'32	
min. Earth dist.	1492 Oct 25 j 15:58	10° \mathbb{M} 34'38	0.26818 AU		1495 May 02 j 06:37	0° \mathbb{I}	
morning rise	1492 Oct 30 j 20:52	7° \mathbb{M} 32'40			1495 May 26 j 18:04	0° \mathcal{E}	
asc. node	1492 Nov 13 j 06:49	3° \mathbb{M} 17'14			1495 Jun 20 j 08:27	0° \mathcal{O}	
direct	1492 Nov 14 j 13:12	3° \mathbb{M} 15'15			1495 Jul 15 j 02:43	0° \mathbb{P}	
greatest brilliancy	1492 Nov 25 j 11:19	5° \mathbb{M} 30'28	-4.9m		1495 Aug 09 j 03:02	0° \mathcal{L}	
	1492 Dec 28 j 13:36	0° \mathcal{X}		desc. node	1495 Aug 20 j 15:16	13° \mathcal{L} 39'20	
morning max el	1493 Jan 04 j 06:51	6° \mathcal{X} 39'40	46°56'53		1495 Sep 03 j 13:10	0° \mathbb{M}	
	1493 Jan 26 j 01:24	0° \mathcal{Z}			1495 Sep 29 j 16:37	0° \mathcal{X}	
	1493 Feb 21 j 05:52	0° \approx			1495 Oct 27 j 12:22	0° \mathcal{Z}	
desc. node	1493 Mar 04 j 20:18	13° \approx 38'06		evening max el	1495 Oct 29 j 02:50	1° \mathcal{Z} 37'21	47°14'25
	1493 Mar 18 j 15:04	0° \mathcal{H}			1495 Dec 02 j 07:55	0° \approx	
	1493 Apr 12 j 15:58	0° Υ		greatest brilliancy	1495 Dec 08 j 14:17	2° \approx 54'51	-4.9m
	1493 May 07 j 12:43	0° \mathcal{B}		asc. node	1495 Dec 11 j 18:36	3° \approx 56'32	
	1493 Jun 01 j 06:30	0° \mathbb{I}		retrograde	1495 Dec 18 j 21:23	4° \approx 55'56	
asc. node	1493 Jun 25 j 23:39	0° \mathcal{E} 08'29		evening set	1496 Jan 03 j 06:37	0° \approx 11'35	
	1493 Jun 25 j 20:53	0° \mathcal{E}			1496 Jan 03 j 14:45	30° \mathcal{R} \mathcal{Z}	
morning set	1493 Jul 05 j 19:10	12° \mathcal{E} 09'57		min. Earth dist.	1496 Jan 07 j 14:29	27° \mathcal{Z} 36'19	0.26826 AU
	1493 Jul 20 j 07:07	0° \mathcal{O}		inferior conj	1496 Jan 08 j 12:06	27° \mathcal{Z} 02'57	6°25'12
max. Earth dist.	1493 Aug 07 j 20:08	22° \mathcal{O} 54'56	1.72836 AU	minimum elong	1496 Jan 08 j 01:42	27° \mathcal{Z} 19'01	6°22'54
				morning rise	1496 Jan 12 j 21:19	24° \mathcal{Z} 24'40	
superior conj	1493 Aug 11 j 05:07	27° \mathcal{O} 05'52	1°21'39	direct	1496 Jan 28 j 23:11	19° \mathcal{Z} 21'41	
minimum elong	1493 Aug 11 j 00:25	26° \mathcal{O} 51'19	1°21'36	greatest brilliancy	1496 Feb 07 j 00:04	20° \mathcal{Z} 55'06	-4.9m
	1493 Aug 13 j 13:16	0° \mathbb{P}			1496 Feb 23 j 13:43	0° \approx	
	1493 Sep 06 j 16:27	0° \mathcal{L}		morning max el	1496 Mar 18 j 17:47	21° \approx 05'18	46°24'02
evening rise	1493 Sep 17 j 06:39	13° \mathcal{L} 11'49			1496 Mar 27 j 14:00	0° \mathcal{H}	
	1493 Sep 30 j 18:11	0° \mathbb{M}		desc. node	1496 Apr 01 j 08:07	4° \mathcal{H} 57'26	

	1496 Apr 24 j 07:09	0°♄			1498 Oct 10 j 15:44	0°♁	
	1496 May 20 j 13:24	0°♂			1498 Nov 04 j 10:12	0°♂	
	1496 Jun 15 j 03:10	0°♂			1498 Nov 29 j 15:25	0°♂	
	1496 Jul 10 j 05:50	0°♂			1498 Dec 25 j 23:50	0°♂	
asc. node	1496 Jul 23 j 11:30	16°♂00'37		asc. node	1499 Jan 08 j 06:34	14°♂04'57	
	1496 Aug 03 j 22:57	0°♂		evening max el	1499 Jan 08 j 22:27	14°♂45'26	46°59'45
	1496 Aug 28 j 07:43	0°♂			1499 Jan 24 j 23:39	0°♄	
morning set	1496 Sep 12 j 16:44	19°♂06'31		greatest brilliancy	1499 Feb 18 j 03:05	15°♄55'26	-4.8m
	1496 Sep 21 j 10:12	0°♂		retrograde	1499 Feb 28 j 14:06	17°♄59'40	
	1496 Oct 15 j 08:58	0°♂		evening set	1499 Mar 18 j 00:43	12°♄06'21	
max. Earth dist.	1496 Oct 19 j 00:17	4°♂33'58	1.71399 AU	inferior conj	1499 Mar 21 j 19:00	9°♄45'42	7°39'31
				minimum elong	1499 Mar 22 j 03:19	9°♄32'32	7°38'20
superior conj	1496 Oct 21 j 00:52	7°♂06'26	0°49'20	min. Earth dist.	1499 Mar 21 j 14:52	9°♄52'14	0.28365 AU
minimum elong	1496 Oct 21 j 10:55	7°♂37'59	0°48'55	morning rise	1499 Mar 26 j 06:07	7°♄00'09	
	1496 Nov 08 j 06:10	0°♁		direct	1499 Apr 11 j 21:49	1°♄38'19	
desc. node	1496 Nov 12 j 00:58	4°♁45'19		greatest brilliancy	1499 Apr 21 j 12:23	3°♄19'28	-4.8m
evening rise	1496 Nov 30 j 21:45	28°♁27'36		desc. node	1499 Apr 29 j 19:47	7°♄04'25	
	1496 Dec 02 j 03:10	0°♂			1499 May 29 j 01:01	0°♂	
	1496 Dec 26 j 01:00	0°♂		morning max el	1499 May 30 j 18:53	1°♂39'22	45°47'26
	1497 Jan 19 j 01:17	0°♂			1499 Jun 27 j 08:22	0°♂	
	1497 Feb 12 j 06:44	0°♄			1499 Jul 24 j 03:30	0°♂	
asc. node	1497 Mar 05 j 04:22	25°♄31'25			1499 Aug 18 j 18:02	0°♂	
	1497 Mar 08 j 21:12	0°♂		asc. node	1499 Aug 20 j 23:30	2°♂39'25	
	1497 Apr 03 j 02:02	0°♂			1499 Sep 12 j 14:13	0°♂	
	1497 Apr 29 j 06:51	0°♂			1499 Oct 06 j 22:07	0°♂	
	1497 May 27 j 13:31	0°♂			1499 Oct 30 j 22:42	0°♂	
evening max el	1497 Jun 02 j 02:39	5°♂24'37	45°22'39	greatest brilliancy	1499 Nov 02 j 21:45	3°♂42'49	-3.9m
desc. node	1497 Jun 24 j 17:33	24°♂32'59			1499 Nov 23 j 19:49	0°♁	
	1497 Jul 03 j 11:38	0°♂		morning set	1499 Nov 26 j 02:52	2°♁53'09	
greatest brilliancy	1497 Jul 10 j 15:36	3°♂10'23	-4.7m	desc. node	1499 Dec 10 j 12:41	21°♁01'18	
retrograde	1497 Jul 20 j 15:25	4°♂57'58			1499 Dec 17 j 15:55	0°♂	
	1497 Aug 05 j 21:25	30°♂♂					
evening set	1497 Aug 07 j 04:02	29°♂15'48		superior conj	1500 Jan 06 j 20:58	25°♂25'02	-0°59'18
inferior conj	1497 Aug 11 j 00:08	26°♂55'23	-8°20'31	minimum elong	1500 Jan 06 j 08:59	24°♂47'25	0°58'52
minimum elong	1497 Aug 10 j 18:35	27°♂04'00	8°20'04	max. Earth dist.	1500 Jan 09 j 09:43	28°♂35'50	1.71235 AU
min. Earth dist.	1497 Aug 11 j 09:31	26°♂40'47	0.28627 AU		1500 Jan 10 j 12:31	0°♂	
morning rise	1497 Aug 14 j 08:56	24°♂51'08			1500 Feb 03 j 10:48	0°♂	
direct	1497 Sep 01 j 11:44	18°♂42'56		evening rise	1500 Feb 16 j 19:52	16°♂42'21	
greatest brilliancy	1497 Sep 12 j 09:43	20°♂53'08	-4.8m		1500 Feb 27 j 12:14	0°♄	
	1497 Sep 28 j 04:20	0°♂			1500 Mar 22 j 18:23	0°♂	
asc. node	1497 Oct 15 j 21:02	15°♂13'00		asc. node	1500 Apr 01 j 16:19	12°♂10'27	
morning max el	1497 Oct 21 j 14:47	20°♂51'25	46°35'13		1500 Apr 16 j 06:48	0°♂	
	1497 Oct 30 j 10:47	0°♂			1500 May 11 j 03:09	0°♂	
	1497 Nov 26 j 05:47	0°♂			1500 Jun 05 j 10:26	0°♂	
	1497 Dec 21 j 11:44	0°♁			1500 Jul 01 j 11:13	0°♂	
	1498 Jan 15 j 03:17	0°♂		desc. node	1500 Jul 22 j 05:25	22°♂54'11	
desc. node	1498 Feb 04 j 10:26	24°♂55'52			1500 Jul 28 j 22:02	0°♂	
	1498 Feb 08 j 13:16	0°♂		evening max el	1500 Aug 13 j 08:55	15°♂35'16	46°08'51
	1498 Mar 04 j 21:34	0°♂			1500 Aug 29 j 10:34	0°♂	
	1498 Mar 29 j 06:05	0°♄		greatest brilliancy	1500 Sep 22 j 16:22	14°♂43'31	-4.8m
	1498 Apr 22 j 15:35	0°♂		retrograde	1500 Oct 01 j 18:57	16°♂15'41	
morning set	1498 Apr 26 j 19:34	5°♂07'07		evening set	1500 Oct 17 j 10:12	11°♂32'52	
	1498 May 17 j 01:54	0°♂		inferior conj	1500 Oct 22 j 11:17	8°♂34'43	-5°03'13
asc. node	1498 May 28 j 13:53	14°♂07'16		minimum elong	1500 Oct 22 j 21:07	8°♂19'48	5°00'38
max. Earth dist.	1498 Jun 02 j 00:22	19°♂34'10	1.73609 AU	min. Earth dist.	1500 Oct 23 j 05:10	8°♂07'34	0.26875 AU
				morning rise	1500 Oct 28 j 07:28	5°♂09'28	
superior conj	1498 Jun 02 j 15:52	20°♂21'44	0°12'04	direct	1500 Nov 12 j 03:02	0°♂48'11	
minimum elong	1498 Jun 02 j 13:24	20°♂14'11	0°11'56	asc. node	1500 Nov 12 j 08:45	0°♂48'15	
behind sun begin	1498 Jun 01 j 22:26	19°♂28'15		greatest brilliancy	1500 Nov 23 j 01:13	3°♂03'57	-4.9m
behind sun end	1498 Jun 03 j 04:21	21°♂00'07			1500 Dec 28 j 15:04	0°♁	
	1498 Jun 10 j 12:10	0°♂		morning max el	1501 Jan 01 j 21:40	4°♁16'56	46°57'04
	1498 Jul 04 j 21:39	0°♂			1501 Jan 25 j 18:44	0°♂	
evening rise	1498 Jul 08 j 13:40	4°♂30'46			1501 Feb 20 j 20:21	0°♂	
	1498 Jul 29 j 06:27	0°♂		desc. node	1501 Mar 03 j 22:22	13°♂♂03'41	
	1498 Aug 22 j 15:32	0°♂			1501 Mar 18 j 04:05	0°♂	
	1498 Sep 16 j 02:13	0°♂			1501 Apr 12 j 04:05	0°♄	
desc. node	1498 Sep 17 j 03:17	1°♂16'46			1501 May 07 j 00:14	0°♂	

	1501 May 31 j 17:37	0°♄		retrograde	1503 Dec 16 j 10:12	2°≈27'21	
asc. node	1501 Jun 25 j 01:45	29°♄41'36			1503 Dec 27 j 08:21	30°♄	
	1501 Jun 25 j 07:46	0°♅		evening set	1503 Dec 31 j 16:13	27°♅48'47	
morning set	1501 Jul 03 j 13:28	10°♅05'35		min. Earth dist.	1504 Jan 05 j 04:00	25°♅07'59	0.26774 AU
	1501 Jul 19 j 17:56	0°♆		inferior conj	1504 Jan 06 j 00:51	24°♅35'45	6°08'28
max. Earth dist.	1501 Aug 05 j 15:20	20°♆52'10	1.72884 AU	minimum elong	1504 Jan 05 j 14:29	24°♅51'47	6°06'04
				morning rise	1504 Jan 10 j 13:14	21°♅52'48	
superior conj	1501 Aug 08 j 22:54	24°♆58'34	1°20'44	direct	1504 Jan 26 j 11:25	16°♅55'25	
minimum elong	1501 Aug 08 j 17:39	24°♆42'19	1°20'40	greatest brilliancy	1504 Feb 04 j 13:31	18°♅29'30	-4.9m
	1501 Aug 13 j 00:08	0°♇			1504 Feb 24 j 07:56	0°≈	
	1501 Sep 06 j 03:26	0°♁		morning max el	1504 Mar 16 j 05:53	18°≈40'02	46°25'34
evening rise	1501 Sep 14 j 21:44	10°♁54'50			1504 Mar 27 j 09:50	0°♂	
	1501 Sep 30 j 05:20	0°♂		desc. node	1504 Mar 31 j 10:09	4°♂13'13	
desc. node	1501 Oct 14 j 15:09	17°♂57'27			1504 Apr 23 j 22:17	0°♂	
	1501 Oct 24 j 07:07	0°♂			1504 May 20 j 02:30	0°♂	
	1501 Nov 17 j 09:41	0°♄			1504 Jun 14 j 15:12	0°♄	
	1501 Dec 11 j 14:38	0°≈			1504 Jul 09 j 17:13	0°♅	
	1502 Jan 05 j 01:29	0°♂		asc. node	1504 Jul 22 j 13:41	15°♅33'26	
asc. node	1502 Jan 30 j 01:25	0°♂			1504 Aug 03 j 09:58	0°♆	
	1502 Feb 04 j 18:27	6°♂42'04			1504 Aug 27 j 18:32	0°♇	
	1502 Feb 25 j 04:55	0°♂		morning set	1504 Sep 10 j 08:31	16°♇52'33	
evening max el	1502 Mar 21 j 04:57	25°♂13'10	45°51'29		1504 Sep 20 j 20:59	0°♁	
	1502 Mar 26 j 04:33	0°♄			1504 Oct 14 j 19:49	0°♂	
greatest brilliancy	1502 Apr 28 j 05:17	23°♄37'28	-4.7m	max. Earth dist.	1504 Oct 16 j 09:07	1°♂57'01	1.71444 AU
retrograde	1502 May 09 j 06:55	25°♄49'59					
evening set	1502 May 24 j 07:24	21°♄26'28		superior conj	1504 Oct 18 j 13:48	4°♂42'21	0°52'17
desc. node	1502 May 27 j 07:38	19°♄41'51		minimum elong	1504 Oct 19 j 00:04	5°♂14'35	0°51'53
inferior conj	1502 May 30 j 17:19	17°♄35'19	-0°48'03		1504 Nov 07 j 17:08	0°♂	
minimum elong	1502 May 30 j 15:33	17°♄38'05	0°47'31	desc. node	1504 Nov 11 j 03:00	4°♂17'12	
min. Earth dist.	1502 May 30 j 16:31	17°♄36'33	0.28945 AU	evening rise	1504 Nov 28 j 08:03	25°♂54'28	
morning rise	1502 Jun 05 j 23:55	13°♄49'16			1504 Dec 01 j 14:15	0°♄	
direct	1502 Jun 21 j 08:43	9°♄18'10			1504 Dec 25 j 12:11	0°≈	
greatest brilliancy	1502 Jul 01 j 16:32	11°♄13'31	-4.7m		1505 Jan 18 j 12:37	0°♂	
	1502 Jul 30 j 04:57	0°♅			1505 Feb 11 j 18:19	0°♂	
morning max el	1502 Aug 09 j 06:59	9°♅16'23	45°52'44	asc. node	1505 Mar 04 j 06:24	25°♂01'20	
	1502 Aug 29 j 12:46	0°♆			1505 Mar 08 j 09:17	0°♂	
asc. node	1502 Sep 17 j 11:20	21°♆03'42			1505 Apr 02 j 15:04	0°♄	
	1502 Sep 25 j 05:16	0°♇			1505 Apr 28 j 21:56	0°♅	
	1502 Oct 20 j 10:33	0°♁			1505 May 27 j 10:17	0°♆	
	1502 Nov 13 j 22:06	0°♂		evening max el	1505 May 30 j 16:51	3°♆10'07	45°22'25
	1502 Dec 08 j 01:12	0°♂		desc. node	1505 Jun 23 j 19:44	23°♆21'53	
	1503 Jan 01 j 01:04	0°♄			1505 Jul 05 j 17:12	0°♇	
desc. node	1503 Jan 07 j 00:40	7°♄29'15		greatest brilliancy	1505 Jul 08 j 05:34	0°♇57'47	-4.7m
	1503 Jan 25 j 00:31	0°≈		retrograde	1505 Jul 18 j 06:28	2°♇46'43	
morning set	1503 Feb 11 j 09:01	21°≈41'06			1505 Jul 30 j 05:45	30°♆	
	1503 Feb 18 j 00:59	0°♂		evening set	1505 Aug 04 j 16:23	27°♆08'22	
	1503 Mar 14 j 03:32	0°♂		inferior conj	1505 Aug 08 j 15:40	24°♆43'27	-8°14'08
				minimum elong	1505 Aug 08 j 09:28	24°♆53'03	8°13'33
superior conj	1503 Mar 22 j 23:18	10°♂56'37	-1°14'55	min. Earth dist.	1505 Aug 09 j 00:30	24°♆29'44	0.28663 AU
minimum elong	1503 Mar 23 j 08:11	11°♂24'09	1°14'42	morning rise	1505 Aug 12 j 02:19	22°♆36'28	
max. Earth dist.	1503 Mar 26 j 12:45	15°♂21'20	1.72680 AU	direct	1505 Aug 30 j 03:03	16°♆30'19	
	1503 Apr 07 j 08:57	0°♂		greatest brilliancy	1505 Sep 10 j 01:46	18°♆40'48	-4.8m
evening rise	1503 Apr 30 j 03:55	28°♂04'34			1505 Sep 28 j 18:18	0°♇	
asc. node	1503 Apr 30 j 04:06	28°♂05'08		asc. node	1505 Oct 14 j 23:00	14°♇20'24	
	1503 May 01 j 17:29	0°♄		morning max el	1505 Oct 19 j 05:13	18°♇32'36	46°33'49
	1503 May 26 j 05:02	0°♅			1505 Oct 30 j 05:32	0°♁	
	1503 Jun 19 j 19:40	0°♆			1505 Nov 25 j 20:36	0°♂	
	1503 Jul 14 j 14:24	0°♇			1505 Dec 21 j 00:55	0°♂	
	1503 Aug 08 j 15:32	0°♁			1506 Jan 14 j 15:36	0°♄	
desc. node	1503 Aug 19 j 17:21	13°♁06'59		desc. node	1506 Feb 03 j 12:31	24°♄25'52	
	1503 Sep 03 j 03:04	0°♂			1506 Feb 08 j 01:01	0°≈	
	1503 Sep 29 j 09:08	0°♂			1506 Mar 04 j 08:55	0°♂	
evening max el	1503 Oct 26 j 16:55	29°♂13'35	47°12'59		1506 Mar 28 j 17:07	0°♂	
	1503 Oct 27 j 11:25	0°♄			1506 Apr 22 j 02:24	0°♂	
	1503 Dec 04 j 23:59	0°≈		morning set	1506 Apr 24 j 12:17	2°♂57'52	
greatest brilliancy	1503 Dec 06 j 04:27	0°≈27'49	-4.9m		1506 May 16 j 12:33	0°♄	
asc. node	1503 Dec 10 j 20:45	1°≈50'48		asc. node	1506 May 27 j 15:59	13°♄41'05	

superior conj	1506 May 31 j 09:49	18° Π 16'56	0°08'54	minimum elong	1508 Oct 20 j 10:04	5° \mathbb{M} 54'15	5°19'47
minimum elong	1506 May 31 j 08:00	18° Π 11'19	0°08'49	min. Earth dist.	1508 Oct 20 j 18:17	5° \mathbb{M} 41'47	0.26929 AU
behind sun begin	1506 May 30 j 13:04	17° Π 13'11		morning rise	1508 Oct 25 j 17:47	2° \mathbb{M} 47'32	
behind sun end	1506 Jun 01 j 02:55	19° Π 09'27			1508 Oct 31 j 19:33	30° \mathbb{R} $\underline{\mathbf{A}}$	
max. Earth dist.	1506 May 30 j 20:31	17° Π 36'04	1.73607 AU	direct	1508 Nov 09 j 16:57	28° $\underline{\mathbf{A}}$ 22'29	
	1506 Jun 09 j 22:47	0° \mathfrak{S}		asc. node	1508 Nov 11 j 10:52	28° $\underline{\mathbf{A}}$ 26'11	
	1506 Jul 04 j 08:20	0° Ω			1508 Nov 18 j 21:21	0° \mathbb{M}	
evening rise	1506 Jul 06 j 08:33	2° Ω 28'17		greatest brilliancy	1508 Nov 20 j 14:37	0° \mathbb{M} 37'59	-4.9m
	1506 Jul 28 j 17:18	0° \mathbb{M}			1508 Dec 28 j 14:48	0° \mathbb{X}	
	1506 Aug 22 j 02:41	0° $\underline{\mathbf{A}}$		morning max el	1508 Dec 30 j 12:04	1° \mathbb{X} 54'24	46°57'18
	1506 Sep 15 j 13:46	0° \mathbb{M}			1509 Jan 25 j 11:17	0° \mathfrak{S}	
desc. node	1506 Sep 16 j 05:17	0° \mathbb{M} 47'27			1509 Feb 20 j 10:16	0° \approx	
	1506 Oct 10 j 03:53	0° \mathbb{X}		desc. node	1509 Mar 03 j 00:21	12° \approx 30'22	
	1506 Nov 03 j 23:15	0° \mathfrak{S}			1509 Mar 17 j 16:41	0° \mathbb{X}	
	1506 Nov 29 j 06:03	0° \approx			1509 Apr 11 j 15:53	0° \mathbb{Y}	
	1506 Dec 25 j 18:01	0° \mathbb{X}			1509 May 06 j 11:31	0° \mathbb{B}	
evening max el	1507 Jan 06 j 12:41	12° \mathbb{X} 24'26	47°01'35		1509 May 31 j 04:33	0° Π	
asc. node	1507 Jan 07 j 08:39	13° \mathbb{X} 15'06		asc. node	1509 Jun 24 j 03:53	29° Π 15'20	
	1507 Jan 25 j 07:41	0° \mathbb{Y}			1509 Jun 24 j 18:29	0° \mathfrak{S}	
greatest brilliancy	1507 Feb 15 j 18:40	13° \mathbb{Y} 39'08	-4.9m	morning set	1509 Jul 01 j 07:23	8° \mathfrak{S} 00'35	
retrograde	1507 Feb 26 j 05:56	15° \mathbb{Y} 44'00			1509 Jul 19 j 04:34	0° Ω	
evening set	1507 Mar 15 j 18:37	9° \mathbb{Y} 46'33		max. Earth dist.	1509 Aug 03 j 08:49	18° Ω 44'50	1.72928 AU
inferior conj	1507 Mar 19 j 10:16	7° \mathbb{Y} 30'05	7°49'24				
minimum elong	1507 Mar 19 j 18:10	7° \mathbb{Y} 17'38	7°48'22	superior conj	1509 Aug 06 j 16:24	22° Ω 51'08	1°19'42
min. Earth dist.	1507 Mar 19 j 05:22	7° \mathbb{Y} 37'49	0.28332 AU	minimum elong	1509 Aug 06 j 10:37	22° Ω 33'14	1°19'36
morning rise	1507 Mar 23 j 17:55	4° \mathbb{Y} 50'00			1509 Aug 12 j 10:48	0° \mathbb{M}	
	1507 Apr 03 j 23:55	30° \mathbb{R} \mathbb{X}			1509 Sep 05 j 14:13	0° $\underline{\mathbf{A}}$	
direct	1507 Apr 09 j 12:19	29° \mathbb{X} 23'10		evening rise	1509 Sep 12 j 12:44	8° $\underline{\mathbf{A}}$ 38'17	
	1507 Apr 15 j 04:56	0° \mathbb{Y}			1509 Sep 29 j 16:19	0° \mathbb{M}	
greatest brilliancy	1507 Apr 19 j 02:19	1° \mathbb{Y} 04'10	-4.8m	desc. node	1509 Oct 13 j 17:10	17° \mathbb{M} 29'07	
desc. node	1507 Apr 28 j 21:48	5° \mathbb{Y} 40'17			1509 Oct 23 j 18:19	0° \mathbb{X}	
morning max el	1507 May 28 j 10:40	29° \mathbb{Y} 28'18	45°48'12		1509 Nov 16 j 21:12	0° \mathfrak{S}	
	1507 May 28 j 23:54	0° \mathbb{B}			1509 Dec 11 j 02:31	0° \approx	
	1507 Jun 27 j 00:06	0° Π			1510 Jan 04 j 13:56	0° \mathbb{X}	
	1507 Jul 23 j 16:44	0° \mathfrak{S}			1510 Jan 29 j 14:56	0° \mathbb{Y}	
	1507 Aug 18 j 06:05	0° Ω		asc. node	1510 Feb 03 j 20:27	6° \mathbb{Y} 07'24	
asc. node	1507 Aug 20 j 01:27	2° Ω 09'28			1510 Feb 24 j 20:57	0° \mathbb{B}	
	1507 Sep 12 j 01:39	0° \mathbb{M}		evening max el	1510 Mar 18 j 21:00	23° \mathbb{B} 02'02	45°53'24
	1507 Oct 06 j 09:15	0° $\underline{\mathbf{A}}$			1510 Mar 26 j 04:53	0° Π	
	1507 Oct 30 j 09:40	0° \mathbb{M}		greatest brilliancy	1510 Apr 25 j 22:30	21° Π 29'52	-4.7m
greatest brilliancy	1507 Nov 05 j 12:34	7° \mathbb{M} 40'55	-3.9m	retrograde	1510 May 06 j 23:10	23° Π 41'25	
	1507 Nov 23 j 06:41	0° \mathbb{X}		evening set	1510 May 22 j 00:22	19° Π 17'35	
morning set	1507 Nov 23 j 14:04	0° \mathbb{X} 23'14		desc. node	1510 May 26 j 09:49	16° Π 41'47	
desc. node	1507 Dec 09 j 14:52	20° \mathbb{X} 34'03		inferior conj	1510 May 28 j 09:44	15° Π 26'49	-0°28'14
	1507 Dec 17 j 02:45	0° \mathfrak{S}		minimum elong	1510 May 28 j 08:42	15° Π 28'27	0°27'56
				min. Earth dist.	1510 May 28 j 09:10	15° Π 27'43	0.28937 AU
superior conj	1508 Jan 04 j 06:56	22° \mathfrak{S} 51'31	-0°56'20	morning rise	1510 Jun 03 j 17:15	11° Π 39'08	
minimum elong	1508 Jan 03 j 19:04	22° \mathfrak{S} 14'13	0°55'54	direct	1510 Jun 19 j 01:12	7° Π 09'57	
max. Earth dist.	1508 Jan 06 j 17:32	25° \mathfrak{S} 55'38	1.71211 AU	greatest brilliancy	1510 Jun 29 j 08:02	9° Π 04'12	-4.7m
	1508 Jan 09 j 23:20	0° \approx			1510 Jul 30 j 07:33	0° \mathfrak{S}	
	1508 Feb 02 j 21:38	0° \mathbb{X}		morning max el	1510 Aug 06 j 22:00	7° \mathfrak{S} 04'04	45°51'41
evening rise	1508 Feb 14 j 07:30	14° \mathbb{X} 15'14			1510 Aug 29 j 05:24	0° Ω	
	1508 Feb 26 j 23:07	0° \mathbb{Y}		asc. node	1510 Sep 16 j 13:22	20° Ω 28'29	
	1508 Mar 22 j 05:22	0° \mathbb{B}			1510 Sep 24 j 19:01	0° \mathbb{M}	
asc. node	1508 Mar 31 j 18:16	11° \mathbb{B} 42'32			1510 Oct 19 j 23:02	0° $\underline{\mathbf{A}}$	
	1508 Apr 15 j 18:01	0° Π			1510 Nov 13 j 09:58	0° \mathbb{M}	
	1508 May 10 j 14:53	0° \mathfrak{S}			1510 Dec 07 j 12:42	0° \mathbb{X}	
	1508 Jun 04 j 23:07	0° Ω			1510 Dec 31 j 12:21	0° \mathfrak{S}	
	1508 Jul 01 j 01:45	0° \mathbb{M}		desc. node	1511 Jan 06 j 02:40	7° \mathfrak{S} 00'25	
desc. node	1508 Jul 21 j 07:29	22° \mathbb{M} 13'28			1511 Jan 24 j 11:36	0° \approx	
	1508 Jul 28 j 16:49	0° $\underline{\mathbf{A}}$		morning set	1511 Feb 08 j 20:29	19° \approx 12'55	
evening max el	1508 Aug 10 j 23:18	13° $\underline{\mathbf{A}}$ 18'04	46°06'28		1511 Feb 17 j 11:53	0° \mathbb{X}	
	1508 Aug 29 j 22:46	0° \mathbb{M}			1511 Mar 13 j 14:18	0° \mathbb{Y}	
greatest brilliancy	1508 Sep 20 j 04:28	12° \mathbb{M} 19'04	-4.8m				
retrograde	1508 Sep 29 j 07:43	13° \mathbb{M} 51'08		superior conj	1511 Mar 20 j 13:54	8° \mathbb{Y} 39'50	-1°16'35
evening set	1508 Oct 15 j 01:53	9° \mathbb{M} 04'00		minimum elong	1511 Mar 20 j 22:21	9° \mathbb{Y} 06'04	1°16'24
inferior conj	1508 Oct 19 j 23:55	6° \mathbb{M} 09'41	-5°22'23	max. Earth dist.	1511 Mar 24 j 07:49	13° \mathbb{Y} 18'27	1.72625 AU


























































































































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evening rise	1511 Apr 27 j 20:50	25°♄56'03		morning max el	1513 Oct 16 j 20:40	16°♎15'28	46°32'22
asc. node	1511 Apr 29 j 06:14	27°♄38'42			1513 Oct 30 j 00:12	0°♌	
	1511 May 01 j 04:14	0°♈			1513 Nov 25 j 11:33	0°♍	
	1511 May 25 j 15:57	0°♎			1513 Dec 20 j 14:17	0°♊	
	1511 Jun 19 j 06:53	0°♏			1514 Jan 14 j 04:05	0°♑	
	1511 Jul 14 j 02:08	0°♎		desc. node	1514 Feb 02 j 14:28	23°♑54'53	
	1511 Aug 08 j 04:09	0°♌			1514 Feb 07 j 12:56	0°♐	
desc. node	1511 Aug 18 j 19:19	12°♌34'02			1514 Mar 03 j 20:27	0°♏	
	1511 Sep 02 j 17:08	0°♍			1514 Mar 28 j 04:21	0°♎	
	1511 Sep 29 j 01:58	0°♊			1514 Apr 21 j 13:24	0°♄	
evening max el	1511 Oct 24 j 05:56	26°♊47'10	47°11'34	morning set	1514 Apr 22 j 05:08	0°♄48'21	
	1511 Oct 27 j 11:30	0°♑			1514 May 15 j 23:24	0°♈	
greatest brilliancy	1511 Dec 03 j 18:55	28°♑00'56	-4.9m	asc. node	1514 May 26 j 18:06	13°♈14'22	
asc. node	1511 Dec 09 j 22:52	29°♑39'43					
retrograde	1511 Dec 13 j 22:36	29°♑58'44		superior conj	1514 May 29 j 04:00	16°♈12'12	0°05'46
evening set	1511 Dec 29 j 01:53	25°♑25'21		minimum elong	1514 May 29 j 02:48	16°♈08'31	0°05'43
min. Earth dist.	1512 Jan 02 j 17:47	22°♑38'57	0.26724 AU	behind sun begin	1514 May 28 j 05:33	15°♈03'15	
inferior conj	1512 Jan 03 j 13:32	22°♑08'25	5°50'54	behind sun end	1514 May 30 j 00:04	17°♈13'49	
minimum elong	1512 Jan 03 j 03:16	22°♑24'18	5°48'25	max. Earth dist.	1514 May 28 j 18:40	15°♈43'31	1.73601 AU
morning rise	1512 Jan 08 j 05:04	19°♑20'54			1514 Jun 09 j 09:34	0°♎	
direct	1512 Jan 23 j 23:11	14°♑28'39			1514 Jul 03 j 19:11	0°♏	
greatest brilliancy	1512 Feb 02 j 03:29	16°♑04'13	-4.9m	evening rise	1514 Jul 04 j 03:43	0°♏26'14	
	1512 Feb 24 j 21:32	0°♐			1514 Jul 28 j 04:23	0°♎	
morning max el	1512 Mar 13 j 17:59	16°♐14'38	46°27'19		1514 Aug 21 j 14:07	0°♌	
	1512 Mar 27 j 05:03	0°♏		desc. node	1514 Sep 15 j 07:19	0°♍17'11	
desc. node	1512 Mar 30 j 12:09	3°♏29'42			1514 Sep 15 j 01:42	0°♍	
	1512 Apr 23 j 13:08	0°♎			1514 Oct 09 j 16:29	0°♊	
	1512 May 19 j 15:27	0°♄			1514 Nov 03 j 12:49	0°♑	
	1512 Jun 14 j 03:09	0°♈			1514 Nov 28 j 21:18	0°♐	
	1512 Jul 09 j 04:37	0°♎			1514 Dec 25 j 13:04	0°♏	
asc. node	1512 Jul 21 j 15:36	15°♎05'16		evening max el	1515 Jan 04 j 03:51	10°♏04'47	47°03'35
	1512 Aug 02 j 21:03	0°♏		asc. node	1515 Jan 06 j 10:36	12°♏23'01	
	1512 Aug 27 j 05:29	0°♎			1515 Jan 25 j 19:06	0°♎	
morning set	1512 Sep 08 j 00:03	14°♎37'24		greatest brilliancy	1515 Feb 13 j 09:55	11°♎21'33	-4.9m
	1512 Sep 20 j 07:54	0°♌		retrograde	1515 Feb 23 j 22:14	13°♎27'16	
max. Earth dist.	1512 Oct 13 j 20:02	29°♌26'16	1.71487 AU	evening set	1515 Mar 13 j 12:25	7°♎25'56	
	1512 Oct 14 j 06:47	0°♍		inferior conj	1515 Mar 17 j 01:32	5°♎13'24	7°58'37
				minimum elong	1515 Mar 17 j 08:56	5°♎01'44	7°57'44
superior conj	1512 Oct 16 j 02:33	2°♍17'16	0°55'10	min. Earth dist.	1515 Mar 16 j 19:32	5°♎22'52	0.28293 AU
minimum elong	1512 Oct 16 j 12:57	2°♍49'55	0°54'46	morning rise	1515 Mar 21 j 05:42	2°♎38'48	
	1512 Nov 07 j 04:12	0°♊			1515 Mar 26 j 04:04	30°♎♏	
desc. node	1512 Nov 10 j 05:08	3°♊49'06		direct	1515 Apr 07 j 03:14	27°♏07'09	
evening rise	1512 Nov 25 j 18:17	23°♊20'56		greatest brilliancy	1515 Apr 16 j 15:39	28°♏47'17	-4.8m
	1512 Dec 01 j 01:25	0°♑			1515 Apr 19 j 19:47	0°♎	
	1512 Dec 24 j 23:29	0°♐		desc. node	1515 Apr 27 j 23:58	4°♎18'23	
	1513 Jan 18 j 00:04	0°♏		morning max el	1515 May 26 j 03:04	27°♎17'57	45°49'01
	1513 Feb 11 j 06:03	0°♎			1515 May 28 j 22:09	0°♄	
asc. node	1513 Mar 03 j 08:24	24°♎30'48			1515 Jun 26 j 15:50	0°♈	
	1513 Mar 07 j 21:29	0°♄			1515 Jul 23 j 06:05	0°♎	
	1513 Apr 02 j 04:15	0°♈			1515 Aug 17 j 18:19	0°♏	
	1513 Apr 28 j 13:17	0°♎		asc. node	1515 Aug 19 j 03:32	1°♏39'17	
	1513 May 27 j 07:52	0°♏			1515 Sep 11 j 13:20	0°♎	
evening max el	1513 May 28 j 07:32	0°♏56'47	45°22'13		1515 Oct 05 j 20:41	0°♌	
desc. node	1513 Jun 22 j 21:42	22°♏08'03			1515 Oct 29 j 21:00	0°♍	
greatest brilliancy	1513 Jul 05 j 18:44	28°♏44'02	-4.7m	greatest brilliancy	1515 Nov 06 j 15:20	9°♍44'46	-3.9m
	1513 Jul 10 j 07:43	0°♎		morning set	1515 Nov 21 j 01:03	27°♍51'19	
retrograde	1513 Jul 15 j 21:51	0°♎35'02			1515 Nov 22 j 17:58	0°♊	
	1513 Jul 21 j 08:32	30°♎♏		desc. node	1515 Dec 08 j 16:53	20°♊04'55	
evening set	1513 Aug 02 j 04:30	25°♏00'28			1515 Dec 16 j 14:01	0°♑	
inferior conj	1513 Aug 06 j 07:09	22°♏30'47	-8°06'50				
minimum elong	1513 Aug 06 j 00:20	22°♏41'19	8°06'08	superior conj	1516 Jan 01 j 16:23	20°♑14'58	-0°53'13
min. Earth dist.	1513 Aug 06 j 15:10	22°♏18'21	0.28704 AU	minimum elong	1516 Jan 01 j 04:45	19°♑38'24	0°52'46
morning rise	1513 Aug 09 j 19:56	20°♏20'45		max. Earth dist.	1516 Jan 04 j 02:12	23°♑16'42	1.71184 AU
direct	1513 Aug 27 j 18:45	14°♏16'52			1516 Jan 09 j 10:34	0°♐	
greatest brilliancy	1513 Sep 07 j 17:39	16°♏27'32	-4.8m		1516 Feb 02 j 08:52	0°♏	
	1513 Sep 29 j 05:09	0°♎		evening rise	1516 Feb 11 j 18:43	11°♏45'32	

	1516 Feb 26 j 10:21	0°Υ			1518 Jul 30 j 09:02	0°Ϣ	
	1516 Mar 21 j 16:42	0°Ϡ		morning max el	1518 Aug 04 j 12:47	4°Ϣ50'33	45°50'49
asc. node	1516 Mar 30 j 20:26	11°Ϡ14'09			1518 Aug 28 j 21:56	0°Ω	
	1516 Apr 15 j 05:37	0°Π		asc. node	1518 Sep 15 j 15:27	19°Ω53'06	
	1516 May 10 j 03:00	0°Ϣ			1518 Sep 24 j 08:49	0°ϯ	
	1516 Jun 04 j 12:12	0°Ω			1518 Oct 19 j 11:38	0°Ϸ	
	1516 Jun 30 j 16:45	0°ϯ			1518 Nov 12 j 21:57	0°ϯ	
desc. node	1516 Jul 20 j 09:29	21°ϯ31'28			1518 Dec 07 j 00:22	0°Ϡ	
	1516 Jul 28 j 12:23	0°Ϸ			1518 Dec 30 j 23:50	0°Ϣ	
evening max el	1516 Aug 08 j 13:43	11°Ϸ00'27	46°04'03	desc. node	1519 Jan 05 j 04:39	6°Ϣ30'51	
	1516 Aug 30 j 15:20	0°ϯ			1519 Jan 23 j 22:55	0°≈	
greatest brilliancy	1516 Sep 17 j 17:01	9°ϯ55'00	-4.8m	morning set	1519 Feb 06 j 07:27	16°≈42'10	
retrograde	1516 Sep 26 j 20:01	11°ϯ26'22			1519 Feb 16 j 23:04	0°Ϡ	
evening set	1516 Oct 12 j 17:47	6°ϯ34'58			1519 Mar 13 j 01:22	0°Υ	
inferior conj	1516 Oct 17 j 12:46	3°ϯ44'31	-5°40'34				
minimum elong	1516 Oct 17 j 23:09	3°ϯ28'43	5°38'01	superior conj	1519 Mar 18 j 03:55	6°Υ20'15	-1°18'09
min. Earth dist.	1516 Oct 18 j 07:45	3°ϯ15'38	0.26990 AU	minimum elong	1519 Mar 18 j 11:54	6°Υ44'59	1°17'59
morning rise	1516 Oct 23 j 04:03	0°ϯ25'28		max. Earth dist.	1519 Mar 21 j 23:23	11°Υ03'46	1.72568 AU
	1516 Oct 23 j 22:59	30°ϠϷ			1519 Apr 06 j 06:39	0°Ϡ	
direct	1516 Nov 07 j 06:53	25°Ϸ56'31		evening rise	1519 Apr 25 j 13:09	23°Ϡ44'48	
asc. node	1516 Nov 10 j 12:58	26°Ϸ09'14		asc. node	1519 Apr 28 j 08:16	27°Ϡ11'04	
greatest brilliancy	1516 Nov 18 j 04:35	28°Ϸ11'49	-4.9m		1519 Apr 30 j 15:15	0°Π	
	1516 Nov 22 j 04:04	0°ϯ			1519 May 25 j 03:06	0°Ϣ	
morning max el	1516 Dec 28 j 01:47	29°ϯ28'35	46°57'15		1519 Jun 18 j 18:20	0°Ω	
	1516 Dec 28 j 14:06	0°Ϡ			1519 Jul 13 j 14:07	0°ϯ	
	1517 Jan 25 j 04:05	0°Ϣ			1519 Aug 07 j 17:01	0°Ϸ	
	1517 Feb 20 j 00:35	0°≈		desc. node	1519 Aug 17 j 21:25	12°Ϸ00'52	
desc. node	1517 Mar 02 j 02:28	11°≈56'05			1519 Sep 02 j 07:30	0°ϯ	
	1517 Mar 17 j 05:39	0°Ϡ			1519 Sep 28 j 19:15	0°Ϡ	
	1517 Apr 11 j 04:01	0°Υ		evening max el	1519 Oct 21 j 18:40	24°Ϡ20'10	47°10'12
	1517 May 05 j 23:06	0°Ϡ			1519 Oct 27 j 12:47	0°Ϣ	
	1517 May 30 j 15:46	0°Π		greatest brilliancy	1519 Dec 01 j 09:07	25°Ϣ33'49	-4.9m
asc. node	1517 Jun 23 j 05:49	28°Π47'30		asc. node	1519 Dec 09 j 00:45	27°Ϣ23'23	
	1517 Jun 24 j 05:30	0°Ϣ		retrograde	1519 Dec 11 j 11:12	27°Ϣ30'33	
morning set	1517 Jun 29 j 01:32	5°Ϣ55'24		evening set	1519 Dec 26 j 11:47	23°Ϣ01'34	
	1517 Jul 18 j 15:30	0°Ω		min. Earth dist.	1519 Dec 31 j 07:36	20°Ϣ10'08	0.26682 AU
max. Earth dist.	1517 Aug 01 j 01:26	16°Ω34'00	1.72970 AU	inferior conj	1520 Jan 01 j 02:20	19°Ϣ41'15	5°32'41
				minimum elong	1519 Dec 31 j 16:13	19°Ϣ56'51	5°30'08
superior conj	1517 Aug 04 j 10:24	20°Ω44'28	1°18'33	morning rise	1520 Jan 05 j 20:59	16°Ϣ49'26	
minimum elong	1517 Aug 04 j 04:08	20°Ω25'05	1°18'26	direct	1520 Jan 21 j 10:59	12°Ϣ01'48	
	1517 Aug 11 j 21:44	0°ϯ		greatest brilliancy	1520 Jan 30 j 17:40	13°Ϣ39'12	-4.9m
	1517 Sep 05 j 01:15	0°Ϸ			1520 Feb 25 j 07:47	0°≈	
evening rise	1517 Sep 10 j 04:21	6°Ϸ22'57		morning max el	1520 Mar 11 j 07:02	13°≈51'00	46°28'52
	1517 Sep 29 j 03:32	0°ϯ			1520 Mar 26 j 23:56	0°Ϡ	
desc. node	1517 Oct 12 j 19:20	17°ϯ00'23		desc. node	1520 Mar 29 j 14:18	2°Ϡ46'38	
	1517 Oct 23 j 05:49	0°Ϡ			1520 Apr 23 j 04:01	0°Υ	
	1517 Nov 16 j 09:03	0°Ϣ			1520 May 19 j 04:32	0°Ϡ	
	1517 Dec 10 j 14:48	0°≈			1520 Jun 13 j 15:14	0°Π	
	1518 Jan 04 j 02:51	0°Ϡ			1520 Jul 08 j 16:05	0°Ϣ	
	1518 Jan 29 j 05:04	0°Υ		asc. node	1520 Jul 20 j 17:41	14°Ϣ37'20	
asc. node	1518 Feb 02 j 22:29	5°Υ31'07			1520 Aug 02 j 08:10	0°Ω	
	1518 Feb 24 j 13:48	0°Ϡ			1520 Aug 26 j 16:27	0°ϯ	
evening max el	1518 Mar 16 j 12:10	20°Ϡ47'18	45°55'33	morning set	1520 Sep 05 j 15:46	12°ϯ22'54	
	1518 Mar 26 j 07:04	0°Π			1520 Sep 19 j 18:51	0°Ϸ	
greatest brilliancy	1518 Apr 23 j 16:04	19°Π21'32	-4.7m	max. Earth dist.	1520 Oct 11 j 08:29	27°Ϸ00'15	1.71528 AU
retrograde	1518 May 04 j 15:12	21°Π32'04					
evening set	1518 May 19 j 17:32	17°Π07'30		superior conj	1520 Oct 13 j 15:41	29°Ϸ53'22	0°57'55
desc. node	1518 May 25 j 11:48	13°Π40'16		minimum elong	1520 Oct 14 j 02:09	0°ϯ26'11	0°57'32
inferior conj	1518 May 26 j 02:14	13°Π17'34	-0°08'31		1520 Oct 13 j 17:48	0°ϯ	
minimum elong	1518 May 26 j 01:56	13°Π18'03	0°08'25		1520 Nov 06 j 15:17	0°Ϡ	
transit middle	1518 May 26 j 01:56	13°Π18'03	0°08'25	desc. node	1520 Nov 09 j 07:08	3°Ϡ20'32	
transit begin	1518 May 25 j 22:28	13°Π23'30		evening rise	1520 Nov 23 j 05:01	20°Ϡ49'01	
transit end	1518 May 26 j 05:23	13°Π12'36			1520 Nov 30 j 12:34	0°Ϣ	
min. Earth dist.	1518 May 26 j 02:09	13°Π17'42	0.28924 AU		1520 Dec 24 j 10:43	0°≈	
morning rise	1518 Jun 01 j 10:29	9°Π28'26			1521 Jan 17 j 11:28	0°Ϡ	
direct	1518 Jun 16 j 17:12	5°Π00'53			1521 Feb 10 j 17:45	0°Υ	
greatest brilliancy	1518 Jun 27 j 00:03	6°Π54'41	-4.7m	asc. node	1521 Mar 02 j 10:31	24°Υ00'38	

	1521 Mar 07 j 09:44	0°♄		asc. node	1523 Aug 18 j 05:39	1°♌09'52	
	1521 Apr 01 j 17:34	0°♊			1523 Sep 11 j 00:46	0°♎	
	1521 Apr 28 j 04:56	0°♊			1523 Oct 05 j 07:50	0°♌	
evening max el	1521 May 25 j 23:11	28°♊45'37	45°22'11		1523 Oct 29 j 08:01	0°♌	
	1521 May 27 j 06:26	0°♌		greatest brilliancy	1523 Nov 06 j 09:57	10°♌08'39	-3.9m
desc. node	1521 Jun 21 j 23:43	20°♌51'56		morning set	1523 Nov 18 j 12:10	25°♌20'49	
greatest brilliancy	1521 Jul 03 j 07:41	26°♌30'07	-4.7m		1523 Nov 22 j 04:56	0°♌	
retrograde	1521 Jul 13 j 13:36	28°♌23'24		desc. node	1523 Dec 07 j 18:51	19°♌36'34	
evening set	1521 Jul 30 j 16:38	22°♌52'55			1523 Dec 16 j 00:58	0°♌	
inferior conj	1521 Aug 03 j 22:38	20°♌18'18	-7°58'56				
minimum elong	1521 Aug 03 j 15:16	20°♌29'43	7°58'05	superior conj	1523 Dec 30 j 01:52	17°♌39'29	-0°50'00
min. Earth dist.	1521 Aug 04 j 05:30	20°♌07'41	0.28740 AU	minimum elong	1523 Dec 29 j 14:35	17°♌04'00	0°49'32
morning rise	1521 Aug 07 j 13:41	18°♌05'04		max. Earth dist.	1524 Jan 01 j 10:25	20°♌37'15	1.71159 AU
direct	1521 Aug 25 j 10:56	12°♌03'55			1524 Jan 08 j 21:31	0°♌	
greatest brilliancy	1521 Sep 05 j 08:49	14°♌14'00	-4.8m		1524 Feb 01 j 19:48	0°♌	
	1521 Sep 29 j 12:58	0°♎		evening rise	1524 Feb 09 j 05:51	9°♌16'24	
asc. node	1521 Oct 13 j 03:13	12°♎37'14			1524 Feb 25 j 21:17	0°♎	
morning max el	1521 Oct 14 j 12:42	14°♎00'31	46°30'50		1524 Mar 21 j 03:43	0°♄	
	1521 Oct 29 j 18:16	0°♌		asc. node	1524 Mar 29 j 22:28	10°♄46'26	
	1521 Nov 25 j 02:11	0°♌			1524 Apr 14 j 16:53	0°♊	
	1521 Dec 20 j 03:25	0°♌			1524 May 09 j 14:48	0°♊	
	1522 Jan 13 j 16:22	0°♌			1524 Jun 04 j 01:03	0°♌	
desc. node	1522 Feb 01 j 16:36	23°♌25'01			1524 Jun 30 j 07:39	0°♎	
	1522 Feb 07 j 00:39	0°♌		desc. node	1524 Jul 19 j 11:36	20°♎49'59	
	1522 Mar 03 j 07:46	0°♌			1524 Jul 28 j 08:17	0°♌	
	1522 Mar 27 j 15:24	0°♎		evening max el	1524 Aug 06 j 03:26	8°♌41'49	46°01'32
morning set	1522 Apr 19 j 21:52	28°♎38'54			1524 Aug 31 j 13:11	0°♌	
	1522 Apr 21 j 00:15	0°♄		greatest brilliancy	1524 Sep 15 j 06:04	7°♌32'16	-4.8m
	1522 May 15 j 10:08	0°♊		retrograde	1524 Sep 24 j 07:47	9°♌02'30	
asc. node	1522 May 25 j 20:03	12°♊47'26		evening set	1524 Oct 10 j 09:41	4°♌06'48	
				inferior conj	1524 Oct 15 j 01:38	1°♌20'26	-5°58'01
superior conj	1522 May 26 j 21:53	14°♊06'49	0°02'35	minimum elong	1524 Oct 15 j 12:08	1°♌04'24	5°55'33
minimum elong	1522 May 26 j 21:22	14°♊05'12	0°02'33	min. Earth dist.	1524 Oct 15 j 21:27	0°♌50'10	0.27050 AU
behind sun begin	1522 May 25 j 22:58	12°♊56'26			1524 Oct 17 j 06:33	30°♌	
behind sun end	1522 May 27 j 19:45	15°♊13'58		morning rise	1524 Oct 20 j 14:05	28°♌04'43	
max. Earth dist.	1522 May 26 j 17:29	13°♊53'17	1.73596 AU	direct	1524 Nov 04 j 20:17	23°♌31'32	
	1522 Jun 08 j 20:16	0°♊		asc. node	1524 Nov 09 j 14:53	23°♌58'31	
evening rise	1522 Jul 01 j 22:37	28°♊23'39		greatest brilliancy	1524 Nov 15 j 19:00	25°♌47'16	-4.9m
	1522 Jul 03 j 05:58	0°♌			1524 Nov 24 j 01:10	0°♌	
	1522 Jul 27 j 15:21	0°♎		morning max el	1524 Dec 25 j 14:26	27°♌01'05	46°57'12
	1522 Aug 21 j 01:25	0°♌			1524 Dec 28 j 12:03	0°♌	
desc. node	1522 Sep 14 j 09:27	29°♌47'42			1525 Jan 24 j 20:11	0°♌	
	1522 Sep 14 j 13:28	0°♌			1525 Feb 19 j 14:21	0°♌	
	1522 Oct 09 j 04:55	0°♌		desc. node	1525 Mar 01 j 04:31	11°♌22'57	
	1522 Nov 03 j 02:16	0°♌			1525 Mar 16 j 18:10	0°♌	
	1522 Nov 28 j 12:31	0°♌			1525 Apr 10 j 15:44	0°♎	
	1522 Dec 25 j 08:22	0°♌			1525 May 05 j 10:16	0°♄	
evening max el	1523 Jan 01 j 20:01	7°♌48'18	47°05'29		1525 May 30 j 02:36	0°♊	
asc. node	1523 Jan 05 j 12:46	11°♌31'19		asc. node	1525 Jun 22 j 07:56	28°♊21'22	
	1523 Jan 26 j 09:52	0°♎			1525 Jun 23 j 16:08	0°♊	
greatest brilliancy	1523 Feb 11 j 01:18	9°♎05'04	-4.9m	morning set	1525 Jun 26 j 19:43	3°♊51'33	
retrograde	1523 Feb 21 j 14:30	11°♎11'17			1525 Jul 18 j 02:05	0°♌	
evening set	1523 Mar 11 j 06:09	5°♎06'36		max. Earth dist.	1525 Jul 29 j 18:41	14°♌26'14	1.73019 AU
inferior conj	1523 Mar 14 j 16:50	2°♎57'41	8°07'06				
minimum elong	1523 Mar 14 j 23:42	2°♎46'53	8°06'21	superior conj	1525 Aug 02 j 04:24	18°♌38'55	1°17'18
min. Earth dist.	1523 Mar 14 j 09:34	3°♎09'09	0.28252 AU	minimum elong	1525 Aug 01 j 21:42	18°♌18'11	1°17'10
morning rise	1523 Mar 18 j 17:30	0°♎28'25			1525 Aug 11 j 08:22	0°♎	
	1523 Mar 19 j 12:52	30°♌			1525 Sep 04 j 12:01	0°♌	
direct	1523 Apr 04 j 18:29	24°♌52'21		evening rise	1525 Sep 07 j 19:55	4°♌08'29	
greatest brilliancy	1523 Apr 14 j 04:36	26°♌31'00	-4.8m		1525 Sep 28 j 14:30	0°♌	
	1523 Apr 22 j 01:09	0°♎		desc. node	1525 Oct 11 j 21:18	16°♌31'55	
desc. node	1523 Apr 27 j 01:57	2°♎59'53			1525 Oct 22 j 17:03	0°♌	
morning max el	1523 May 23 j 19:06	25°♎07'38	45°49'40		1525 Nov 15 j 20:35	0°♌	
	1523 May 28 j 19:12	0°♄			1525 Dec 10 j 02:45	0°♌	
	1523 Jun 26 j 07:03	0°♊			1526 Jan 03 j 15:28	0°♌	
	1523 Jul 22 j 19:07	0°♊			1526 Jan 28 j 18:57	0°♎	
	1523 Aug 17 j 06:18	0°♌		asc. node	1526 Feb 02 j 00:36	4°♎56'02	

	1526 Feb 24 j 06:35	0°♄			1528 Aug 26 j 03:13	0°♍	
evening max el	1526 Mar 14 j 02:41	18°♄31'52	45°57'46	morning set	1528 Sep 03 j 07:56	10°♍10'27	
	1526 Mar 26 j 10:20	0°♍			1528 Sep 19 j 05:37	0°♌	
greatest brilliancy	1526 Apr 21 j 09:25	17°♍13'56	-4.7m	max. Earth dist.	1528 Oct 08 j 21:56	24°♌37'58	1.71572 AU
retrograde	1526 May 02 j 07:22	19°♍24'00					
evening set	1526 May 17 j 10:49	14°♍58'10		superior conj	1528 Oct 11 j 05:07	27°♌31'01	1°00'31
inferior conj	1526 May 23 j 18:46	11°♍09'30	0°11'13	minimum elong	1528 Oct 11 j 15:34	28°♌03'46	1°00'10
minimum elong	1526 May 23 j 19:11	11°♍08'51	0°11'07		1528 Oct 13 j 04:38	0°♍	
transit middle	1526 May 23 j 19:11	11°♍08'51	0°11'07		1528 Nov 06 j 02:14	0°♎	
transit begin	1526 May 23 j 16:14	11°♍13'30		desc. node	1528 Nov 08 j 09:11	2°♎52'32	
transit end	1526 May 23 j 22:08	11°♍04'12		evening rise	1528 Nov 20 j 15:41	18°♎17'13	
min. Earth dist.	1526 May 23 j 19:17	11°♍08'42	0.28912 AU		1528 Nov 29 j 23:38	0°♏	
desc. node	1526 May 24 j 13:48	10°♍39'34			1528 Dec 23 j 21:55	0°♐	
morning rise	1526 May 30 j 03:37	7°♍19'15			1529 Jan 16 j 22:51	0°♑	
direct	1526 Jun 14 j 08:52	2°♍52'50			1529 Feb 10 j 05:25	0°♒	
greatest brilliancy	1526 Jun 24 j 16:34	4°♍46'57	-4.7m	asc. node	1529 Mar 01 j 12:32	23°♒30'18	
	1526 Jul 30 j 08:47	0°♎			1529 Mar 06 j 21:57	0°♄	
morning max el	1526 Aug 02 j 03:43	2°♎38'35	45°49'59		1529 Apr 01 j 06:53	0°♍	
	1526 Aug 28 j 13:48	0°♏			1529 Apr 27 j 20:44	0°♎	
asc. node	1526 Sep 14 j 17:29	19°♏18'47		evening max el	1529 May 23 j 15:30	26°♎36'26	45°22'12
	1526 Sep 23 j 22:12	0°♍			1529 May 27 j 05:50	0°♏	
	1526 Oct 18 j 23:55	0°♌		desc. node	1529 Jun 21 j 01:54	19°♏34'10	
	1526 Nov 12 j 09:41	0°♍		greatest brilliancy	1529 Jun 30 j 21:04	24°♏17'22	-4.7m
	1526 Dec 06 j 11:48	0°♎		retrograde	1529 Jul 11 j 05:24	26°♏12'21	
	1526 Dec 30 j 11:02	0°♏		evening set	1529 Jul 28 j 04:55	20°♏46'17	
desc. node	1527 Jan 04 j 06:50	6°♏02'44		inferior conj	1529 Aug 01 j 14:14	18°♏06'34	-7°50'24
	1527 Jan 23 j 09:56	0°♐		minimum elong	1529 Aug 01 j 06:22	18°♏18'45	7°49'25
morning set	1527 Feb 03 j 18:07	14°♐11'19		min. Earth dist.	1529 Aug 01 j 19:53	17°♏57'49	0.28769 AU
	1527 Feb 16 j 09:56	0°♑		morning rise	1529 Aug 05 j 07:40	15°♏49'48	
	1527 Mar 12 j 12:08	0°♒		direct	1529 Aug 23 j 03:33	9°♏51'57	
				greatest brilliancy	1529 Sep 02 j 23:31	12°♏00'36	-4.8m
superior conj	1527 Mar 15 j 17:50	4°♒01'13	-1°19'35		1529 Sep 29 j 18:17	0°♍	
minimum elong	1527 Mar 16 j 01:16	4°♒24'14	1°19'27	morning max el	1529 Oct 12 j 04:27	11°♍45'33	46°29'17
max. Earth dist.	1527 Mar 19 j 13:10	8°♒44'27	1.72512 AU	asc. node	1529 Oct 12 j 05:10	11°♍47'20	
	1527 Apr 05 j 17:22	0°♄			1529 Oct 29 j 11:47	0°♌	
evening rise	1527 Apr 23 j 05:28	21°♄34'24			1529 Nov 24 j 16:34	0°♍	
asc. node	1527 Apr 27 j 10:16	26°♄44'13			1529 Dec 19 j 16:25	0°♎	
	1527 Apr 30 j 02:00	0°♍			1530 Jan 13 j 04:36	0°♏	
	1527 May 24 j 13:58	0°♎		desc. node	1530 Jan 31 j 18:40	22°♏54'48	
	1527 Jun 18 j 05:30	0°♏			1530 Feb 06 j 12:24	0°♐	
	1527 Jul 13 j 01:49	0°♍			1530 Mar 02 j 19:09	0°♑	
	1527 Aug 07 j 05:39	0°♌			1530 Mar 27 j 02:30	0°♒	
desc. node	1527 Aug 16 j 23:31	11°♌28'25		morning set	1530 Apr 17 j 14:20	26°♒28'27	
	1527 Sep 01 j 21:46	0°♍			1530 Apr 20 j 11:07	0°♄	
	1527 Sep 28 j 12:41	0°♎			1530 May 14 j 20:51	0°♍	
evening max el	1527 Oct 19 j 07:38	21°♎54'16	47°08'38				
	1527 Oct 27 j 15:20	0°♏		superior conj	1530 May 24 j 15:40	12°♍01'04	-0°00'39
greatest brilliancy	1527 Nov 28 j 22:38	23°♏05'35	-4.9m	minimum elong	1530 May 24 j 15:46	12°♍01'24	0°00'39
asc. node	1527 Dec 08 j 02:56	25°♏00'59		behind sun begin	1530 May 23 j 17:12	10°♍52'05	
retrograde	1527 Dec 08 j 23:59	25°♏01'56		behind sun end	1530 May 25 j 14:20	13°♍10'44	
evening set	1527 Dec 23 j 21:35	20°♏36'47		max. Earth dist.	1530 May 24 j 17:14	12°♍05'56	1.73586 AU
min. Earth dist.	1527 Dec 28 j 20:59	17°♏40'50	0.26641 AU	asc. node	1530 May 24 j 22:11	12°♍21'08	
inferior conj	1527 Dec 29 j 14:49	17°♏13'27	5°13'31		1530 Jun 08 j 06:58	0°♎	
minimum elong	1527 Dec 29 j 04:57	17°♏28'36	5°10'56	evening rise	1530 Jun 29 j 17:36	26°♎21'14	
morning rise	1528 Jan 03 j 12:38	14°♏17'35			1530 Jul 02 j 16:46	0°♏	
direct	1528 Jan 18 j 22:54	9°♏34'15			1530 Jul 27 j 02:22	0°♍	
greatest brilliancy	1528 Jan 28 j 07:22	11°♏13'28	-4.9m		1530 Aug 20 j 12:46	0°♌	
	1528 Feb 25 j 15:08	0°♐		desc. node	1530 Sep 13 j 11:26	29°♌17'43	
morning max el	1528 Mar 08 j 20:46	11°♐29'28	46°30'31		1530 Sep 14 j 01:18	0°♍	
	1528 Mar 26 j 18:07	0°♑			1530 Oct 08 j 17:24	0°♎	
desc. node	1528 Mar 28 j 16:19	2°♑04'21			1530 Nov 02 j 15:48	0°♏	
	1528 Apr 22 j 18:29	0°♒			1530 Nov 28 j 03:57	0°♐	
	1528 May 18 j 17:17	0°♄			1530 Dec 25 j 04:19	0°♑	
	1528 Jun 13 j 03:02	0°♍		evening max el	1530 Dec 30 j 11:58	5°♑30'49	47°07'00
	1528 Jul 08 j 03:20	0°♎		asc. node	1531 Jan 04 j 14:49	10°♑38'01	
asc. node	1528 Jul 19 j 19:50	14°♎10'14			1531 Jan 27 j 06:12	0°♒	
	1528 Aug 01 j 19:05	0°♏		greatest brilliancy	1531 Feb 08 j 17:01	6°♒47'56	-4.9m

retrograde	1531 Feb 19 j 06:12	8° Υ 53'50		1533 Jul 17 j 12:57	0° Ω	
evening set	1531 Mar 08 j 23:36	2° Υ 46'19		max. Earth dist.	1533 Jul 27 j 13:48	12° Ω 23'24 1.73064 AU
inferior conj	1531 Mar 12 j 07:59	0° Υ 40'44 8°14'55				
minimum elong	1531 Mar 12 j 14:15	0° Υ 30'51 8°14'18		superior conj	1533 Jul 30 j 22:24	16° Ω 32'33 1°15'56
min. Earth dist.	1531 Mar 11 j 23:40	0° Υ 53'52 0.28208 AU		minimum elong	1533 Jul 30 j 15:17	16° Ω 10'32 1°15'47
	1531 Mar 13 j 09:51	30° \Re \mathfrak{H}			1533 Aug 10 j 19:16	0° \mathfrak{M}
morning rise	1531 Mar 16 j 05:11	28° \mathfrak{H} 16'34			1533 Sep 03 j 23:02	0° $\underline{\Omega}$
direct	1531 Apr 02 j 09:35	22° \mathfrak{H} 36'26		evening rise	1533 Sep 05 j 11:45	1° $\underline{\Omega}$ 54'07
greatest brilliancy	1531 Apr 11 j 17:37	24° \mathfrak{H} 13'32 -4.8m			1533 Sep 28 j 01:46	0° \mathfrak{M}
	1531 Apr 23 j 12:33	0° Υ		desc. node	1533 Oct 10 j 23:21	16° \mathfrak{M} 02'46
desc. node	1531 Apr 26 j 03:59	1° Υ 42'58			1533 Oct 22 j 04:36	0° \mathfrak{H}
morning max el	1531 May 21 j 10:12	22° Υ 54'20 45°50'26			1533 Nov 15 j 08:29	0° \mathfrak{Z}
	1531 May 28 j 15:46	0° \mathfrak{B}			1533 Dec 09 j 15:03	0° \approx
	1531 Jun 25 j 22:13	0° \mathfrak{H}			1534 Jan 03 j 04:26	0° \mathfrak{H}
	1531 Jul 22 j 08:11	0° \mathfrak{G}			1534 Jan 28 j 09:12	0° Υ
	1531 Aug 16 j 18:21	0° Ω		asc. node	1534 Feb 01 j 02:37	4° Υ 19'41
asc. node	1531 Aug 17 j 07:36	0° Ω 39'41			1534 Feb 23 j 23:58	0° \mathfrak{B}
	1531 Sep 10 j 12:19	0° \mathfrak{M}		evening max el	1534 Mar 11 j 17:06	16° \mathfrak{B} 15'29 45°59'59
	1531 Oct 04 j 19:07	0° $\underline{\Omega}$			1534 Mar 26 j 15:47	0° \mathfrak{H}
	1531 Oct 28 j 19:10	0° \mathfrak{M}		greatest brilliancy	1534 Apr 19 j 02:10	15° \mathfrak{H} 04'47 -4.7m
greatest brilliancy	1531 Nov 06 j 05:07	10° \mathfrak{M} 33'53 -3.9m		retrograde	1534 Apr 29 j 23:52	17° \mathfrak{H} 15'15
morning set	1531 Nov 15 j 23:49	22° \mathfrak{M} 51'40		evening set	1534 May 15 j 04:16	12° \mathfrak{H} 47'39
	1531 Nov 21 j 16:01	0° \mathfrak{H}		inferior conj	1534 May 21 j 11:20	9° \mathfrak{H} 00'30 0°31'03
desc. node	1531 Dec 06 j 21:03	19° \mathfrak{H} 08'39		minimum elong	1534 May 21 j 12:29	8° \mathfrak{H} 58'42 0°30'42
	1531 Dec 15 j 12:01	0° \mathfrak{Z}		min. Earth dist.	1534 May 21 j 12:15	8° \mathfrak{H} 59'03 0.28905 AU
				desc. node	1534 May 23 j 16:00	7° \mathfrak{H} 38'07
superior conj	1531 Dec 27 j 11:48	15° \mathfrak{Z} 05'05 -0°46'41		morning rise	1534 May 27 j 20:42	5° \mathfrak{H} 09'32
minimum elong	1531 Dec 27 j 00:57	14° \mathfrak{Z} 30'57 0°46'14		direct	1534 Jun 12 j 00:41	0° \mathfrak{H} 43'41
max. Earth dist.	1531 Dec 29 j 17:42	17° \mathfrak{Z} 54'32 1.71136 AU		greatest brilliancy	1534 Jun 22 j 09:20	2° \mathfrak{H} 38'33 -4.7m
	1532 Jan 08 j 08:35	0° \approx			1534 Jul 30 j 07:56	0° \mathfrak{G}
	1532 Feb 01 j 06:52	0° \mathfrak{H}		morning max el	1534 Jul 30 j 19:35	0° \mathfrak{G} 27'49 45°49'15
evening rise	1532 Feb 06 j 17:04	6° \mathfrak{H} 46'55			1534 Aug 28 j 05:46	0° Ω
	1532 Feb 25 j 08:24	0° Υ		asc. node	1534 Sep 13 j 19:33	18° Ω 43'44
	1532 Mar 20 j 14:58	0° \mathfrak{B}			1534 Sep 23 j 11:47	0° \mathfrak{M}
asc. node	1532 Mar 29 j 00:26	10° \mathfrak{B} 17'46			1534 Oct 18 j 12:26	0° $\underline{\Omega}$
	1532 Apr 14 j 04:25	0° \mathfrak{H}			1534 Nov 11 j 21:41	0° \mathfrak{M}
	1532 May 09 j 02:55	0° \mathfrak{G}			1534 Dec 05 j 23:30	0° \mathfrak{H}
	1532 Jun 03 j 14:14	0° Ω			1534 Dec 29 j 22:32	0° \mathfrak{Z}
	1532 Jun 29 j 23:00	0° \mathfrak{M}		desc. node	1535 Jan 03 j 08:50	5° \mathfrak{Z} 33'04
desc. node	1532 Jul 18 j 13:39	20° \mathfrak{M} 07'11			1535 Jan 22 j 21:15	0° \approx
	1532 Jul 28 j 05:05	0° $\underline{\Omega}$		morning set	1535 Feb 01 j 04:50	11° \approx 39'33
evening max el	1532 Aug 03 j 16:12	6° $\underline{\Omega}$ 20'26 45°59'07			1535 Feb 15 j 21:05	0° \mathfrak{H}
	1532 Sep 01 j 19:32	0° \mathfrak{M}			1535 Mar 11 j 23:10	0° Υ
greatest brilliancy	1532 Sep 12 j 19:26	5° \mathfrak{M} 09'39 -4.8m				
retrograde	1532 Sep 21 j 19:37	6° \mathfrak{M} 38'51		superior conj	1535 Mar 13 j 07:54	1° Υ 41'39 -1°20'52
evening set	1532 Oct 08 j 01:47	1° \mathfrak{M} 38'25		minimum elong	1535 Mar 13 j 14:43	2° Υ 02'47 1°20'45
	1532 Oct 10 j 20:51	30° \Re $\underline{\Omega}$		max. Earth dist.	1535 Mar 17 j 02:32	6° Υ 22'54 1.72455 AU
inferior conj	1532 Oct 12 j 14:40	28° $\underline{\Omega}$ 56'23 -6°14'45			1535 Apr 05 j 04:22	0° \mathfrak{B}
minimum elong	1532 Oct 13 j 01:14	28° $\underline{\Omega}$ 40'14 6°12'22		evening rise	1535 Apr 20 j 21:58	19° \mathfrak{B} 23'45
min. Earth dist.	1532 Oct 13 j 11:31	28° $\underline{\Omega}$ 24'32 0.27111 AU		asc. node	1535 Apr 26 j 12:25	26° \mathfrak{B} 17'03
morning rise	1532 Oct 18 j 00:08	25° $\underline{\Omega}$ 44'23			1535 Apr 29 j 13:02	0° \mathfrak{H}
direct	1532 Nov 02 j 09:27	21° $\underline{\Omega}$ 06'17			1535 May 24 j 01:09	0° \mathfrak{G}
asc. node	1532 Nov 08 j 17:03	21° $\underline{\Omega}$ 52'49			1535 Jun 17 j 17:00	0° Ω
greatest brilliancy	1532 Nov 13 j 10:05	23° $\underline{\Omega}$ 23'14 -4.9m			1535 Jul 12 j 13:55	0° \mathfrak{M}
	1532 Nov 25 j 08:08	0° \mathfrak{M}			1535 Aug 06 j 18:43	0° $\underline{\Omega}$
morning max el	1532 Dec 23 j 03:09	24° \mathfrak{M} 33'05 46°57'20		desc. node	1535 Aug 16 j 01:28	10° $\underline{\Omega}$ 54'27
	1532 Dec 28 j 09:24	0° \mathfrak{H}			1535 Sep 01 j 12:31	0° \mathfrak{M}
	1533 Jan 24 j 12:12	0° \mathfrak{Z}			1535 Sep 28 j 06:49	0° \mathfrak{H}
	1533 Feb 19 j 04:11	0° \approx		evening max el	1535 Oct 16 j 21:25	19° \mathfrak{H} 29'52 47°07'04
desc. node	1533 Feb 28 j 06:32	10° \approx 49'19			1535 Oct 27 j 19:50	0° \mathfrak{Z}
	1533 Mar 16 j 06:50	0° \mathfrak{H}		greatest brilliancy	1535 Nov 26 j 11:32	20° \mathfrak{Z} 35'52 -4.9m
	1533 Apr 10 j 03:40	0° Υ		retrograde	1535 Dec 06 j 13:08	22° \mathfrak{Z} 32'24
	1533 May 04 j 21:43	0° \mathfrak{B}		asc. node	1535 Dec 07 j 05:01	22° \mathfrak{Z} 31'51
	1533 May 29 j 13:44	0° \mathfrak{H}		evening set	1535 Dec 21 j 07:37	18° \mathfrak{Z} 10'44
asc. node	1533 Jun 21 j 10:04	27° \mathfrak{H} 54'20		min. Earth dist.	1535 Dec 26 j 10:04	15° \mathfrak{Z} 10'50 0.26604 AU
	1533 Jun 23 j 03:05	0° \mathfrak{G}		inferior conj	1535 Dec 27 j 03:15	14° \mathfrak{Z} 44'31 4°53'32
morning set	1533 Jun 24 j 13:49	1° \mathfrak{G} 46'26		minimum elong	1535 Dec 26 j 17:44	14° \mathfrak{Z} 59'06 4°50'58

morning rise	1536 Jan 01 j 04:13	11°  44'46		1538 Jul 02 j 03:42	0° 		
direct	1536 Jan 16 j 11:31	7°  05'41		1538 Jul 26 j 13:31	0° 		
greatest brilliancy	1536 Jan 25 j 20:36	8°  46'06	-4.9m	1538 Aug 20 j 00:16	0° 		
	1536 Feb 25 j 20:44	0° 		desc. node	1538 Sep 12 j 13:31	28°  47'32	
morning max el	1536 Mar 06 j 11:06	9°  08'27	46°32'10		1538 Sep 13 j 13:18	0° 	
	1536 Mar 26 j 12:12	0° 			1538 Oct 08 j 06:09	0° 	
desc. node	1536 Mar 27 j 18:21	1°  21'44			1538 Nov 02 j 05:39	0° 	
	1536 Apr 22 j 09:04	0° 			1538 Nov 27 j 19:49	0° 	
	1536 May 18 j 06:13	0° 			1538 Dec 25 j 01:08	0° 	
	1536 Jun 12 j 15:03	0° 		evening max el	1538 Dec 28 j 02:51	3°  09'52	47°08'32
	1536 Jul 07 j 14:48	0° 		asc. node	1539 Jan 03 j 16:48	9°  42'58	
asc. node	1536 Jul 18 j 21:47	13°  41'43			1539 Jan 28 j 10:28	0° 	
	1536 Aug 01 j 06:15	0° 		greatest brilliancy	1539 Feb 06 j 09:08	4°  30'35	-4.9m
	1536 Aug 25 j 14:16	0° 		retrograde	1539 Feb 16 j 21:21	6°  35'31	
morning set	1536 Sep 01 j 00:06	7°  57'13		evening set	1539 Mar 06 j 16:44	0°  25'37	
	1536 Sep 18 j 16:40	0° 			1539 Mar 07 j 09:21	30°  R 	
max. Earth dist.	1536 Oct 06 j 09:42	22°  09'41	1.71613 AU	inferior conj	1539 Mar 09 j 23:01	28°  42'04	8°21'54
				minimum elong	1539 Mar 10 j 04:38	28°  41'11	8°21'25
superior conj	1536 Oct 08 j 18:37	25°  08'03	1°03'02	min. Earth dist.	1539 Mar 09 j 13:56	28°  43'26	0.28163 AU
minimum elong	1536 Oct 09 j 04:57	25°  40'25	1°02'40	morning rise	1539 Mar 13 j 16:49	26°  40'47	
	1536 Oct 12 j 15:45	0° 		direct	1539 Mar 31 j 00:10	20°  41'45	
	1536 Nov 05 j 13:25	0° 		greatest brilliancy	1539 Apr 09 j 07:02	21°  45'44	-4.8m
desc. node	1536 Nov 07 j 11:19	2°  24'03			1539 Apr 24 j 13:58	0° 	
evening rise	1536 Nov 18 j 02:18	15°  24'31		desc. node	1539 Apr 25 j 06:10	0°  28'08	
	1536 Nov 29 j 10:57	0° 		morning max el	1539 May 19 j 00:21	20°  38'08	45°51'19
	1536 Dec 23 j 09:23	0° 			1539 May 28 j 11:49	0° 	
	1537 Jan 16 j 10:32	0° 			1539 Jun 25 j 13:15	0° 	
	1537 Feb 09 j 17:25	0° 			1539 Jul 21 j 21:12	0° 	
asc. node	1537 Feb 28 j 14:34	22°  09'02		asc. node	1539 Aug 16 j 09:43	0°  10'01	
	1537 Mar 06 j 10:30	0° 			1539 Aug 16 j 06:22	0° 	
	1537 Mar 31 j 20:34	0° 			1539 Sep 09 j 23:50	0° 	
	1537 Apr 27 j 13:02	0° 			1539 Oct 04 j 06:23	0° 	
evening max el	1537 May 21 j 07:54	24°  26'53	45°22'15		1539 Oct 28 j 06:19	0° 	
	1537 May 27 j 06:35	0° 		greatest brilliancy	1539 Nov 05 j 18:29	10°  40'49	-3.9m
desc. node	1537 Jun 20 j 03:52	18°  01'10		morning set	1539 Nov 13 j 11:16	20°  41'37	
greatest brilliancy	1537 Jun 28 j 11:05	22°  05'02	-4.7m		1539 Nov 21 j 03:09	0° 	
retrograde	1537 Jul 08 j 20:56	24°  00'57		desc. node	1539 Dec 05 j 23:04	18°  23'53	
evening set	1537 Jul 25 j 17:20	18°  39'35			1539 Dec 14 j 23:09	0° 	
inferior conj	1537 Jul 30 j 05:57	15°  05'40	-7°41'12				
minimum elong	1537 Jul 29 j 21:39	16°  07'33	7°40'05	superior conj	1539 Dec 24 j 21:19	12°  29'08	-0°43'14
min. Earth dist.	1537 Jul 30 j 10:34	15°  04'29	0.28798 AU	minimum elong	1539 Dec 24 j 11:00	11°  25'41	0°42'48
morning rise	1537 Aug 03 j 01:50	13°  03'40		max. Earth dist.	1539 Dec 26 j 20:26	14°  25'14	1.71115 AU
direct	1537 Aug 20 j 20:12	7°  03'55			1540 Jan 07 j 19:42	0° 	
greatest brilliancy	1537 Aug 31 j 14:19	9°  04'49	-4.8m		1540 Jan 31 j 17:58	0° 	
	1537 Sep 29 j 22:05	0° 		evening rise	1540 Feb 04 j 03:46	4°  41'54'40	
morning max el	1537 Oct 09 j 19:26	9°  07'58	46°27'37		1540 Feb 24 j 19:31	0° 	
asc. node	1537 Oct 11 j 07:20	10°  07'58'02			1540 Mar 20 j 02:13	0° 	
	1537 Oct 29 j 05:13	0° 		asc. node	1540 Mar 28 j 02:37	9°  49'44	
	1537 Nov 24 j 07:01	0° 			1540 Apr 13 j 16:00	0° 	
	1537 Dec 19 j 05:31	0° 			1540 May 08 j 15:05	0° 	
	1538 Jan 12 j 16:57	0° 			1540 Jun 03 j 03:30	0° 	
desc. node	1538 Jan 30 j 20:39	22°  23'57			1540 Jun 29 j 14:30	0° 	
	1538 Feb 06 j 00:16	0° 		desc. node	1540 Jul 17 j 15:40	19°  07'24'02	
	1538 Mar 02 j 06:40	0° 			1540 Jul 28 j 02:28	0° 	
	1538 Mar 26 j 13:45	0° 		evening max el	1540 Aug 01 j 04:24	3°  05'58'15	45°56'55
morning set	1538 Apr 15 j 06:44	24°  09'17'13			1540 Sep 03 j 14:58	0° 	
	1538 Apr 19 j 22:09	0° 		greatest brilliancy	1540 Sep 10 j 08:29	2°  47'37	-4.8m
	1538 May 14 j 07:45	0° 		retrograde	1540 Sep 19 j 07:50	4°  47'16'30	
					1540 Oct 04 j 06:21	30°  R 	
superior conj	1538 May 22 j 09:27	9°  02'54'51	-0°03'53	evening set	1540 Oct 05 j 17:57	29°  02'10'53	
minimum elong	1538 May 22 j 10:15	9°  02'57'20	0°03'50	inferior conj	1540 Oct 10 j 03:51	26°  02'33'19	-6°30'30
behind sun begin	1538 May 21 j 12:06	8° 02'49'17		minimum elong	1540 Oct 10 j 14:24	26° 02'17'12	6°28'14
behind sun end	1538 May 23 j 08:24	11° 02'05'23		min. Earth dist.	1540 Oct 11 j 01:31	26° 02'00'13	0.27179 AU
max. Earth dist.	1538 May 22 j 15:53	10° 02'14'38	1.73570 AU	morning rise	1540 Oct 15 j 10:15	23° 02'25'28	
asc. node	1538 May 24 j 00:16	11° 02'54'07		direct	1540 Oct 30 j 22:47	18° 02'41'50	
	1538 Jun 07 j 17:49	0°		asc. node	1540 Nov 07 j 19:08	19° 02'52'49	
evening rise	1538 Jun 27 j 12:39	24° 02'18'44		greatest brilliancy	1540 Nov 11 j 01:23	21° 02'00'26	-4.9m

	1540 Nov 26 j 06:17	0°♌			1543 Jun 17 j 04:16	0°♏		
morning max el	1540 Dec 20 j 16:34	22°♌07'08	46°57'12		1543 Jul 12 j 01:47	0°♐		
	1540 Dec 28 j 05:59	0°♑			1543 Aug 06 j 07:37	0°♒		
	1541 Jan 24 j 03:57	0°♓		desc. node	1543 Aug 15 j 03:35	10°♒21'33		
	1541 Feb 18 j 17:53	0°♈			1543 Sep 01 j 03:09	0°♌		
desc. node	1541 Feb 27 j 08:38	10°♈16'08			1543 Sep 28 j 01:02	0°♑		
	1541 Mar 15 j 19:21	0°♒		evening max el	1543 Oct 14 j 12:07	17°♑09'02	47°05'34	
	1541 Apr 09 j 15:27	0°♑			1543 Oct 28 j 01:43	0°♓		
	1541 May 04 j 09:01	0°♒		greatest brilliancy	1543 Nov 24 j 00:17	18°♓07'46	-4.9m	
	1541 May 29 j 00:43	0°♐		retrograde	1543 Dec 04 j 02:34	20°♓04'25		
asc. node	1541 Jun 20 j 12:00	27°♐27'08		asc. node	1543 Dec 06 j 06:55	19°♓58'30		
morning set	1541 Jun 22 j 07:46	29°♐41'15		evening set	1543 Dec 18 j 18:02	15°♓46'15		
	1541 Jun 22 j 13:54	0°♉		min. Earth dist.	1543 Dec 23 j 23:03	12°♓42'46	0.26566 AU	
	1541 Jul 16 j 23:41	0°♏		inferior conj	1543 Dec 24 j 15:46	12°♓17'12	4°33'05	
max. Earth dist.	1541 Jul 25 j 10:10	10°♏24'54	1.73105 AU	minimum elong	1543 Dec 24 j 06:40	12°♓31'08	4°30'33	
				morning rise	1543 Dec 29 j 19:44	9°♓13'45		
superior conj	1541 Jul 28 j 16:25	14°♏26'42	1°14'27	direct	1544 Jan 14 j 00:29	4°♓39'06		
minimum elong	1541 Jul 28 j 08:55	14°♏03'31	1°14'17	greatest brilliancy	1544 Jan 23 j 09:27	6°♓19'52	-4.9m	
	1541 Aug 10 j 06:00	0°♐			1544 Feb 25 j 23:53	0°♈		
evening rise	1541 Sep 03 j 03:52	29°♐41'19		morning max el	1544 Mar 04 j 01:18	6°♈48'22	46°33'31	
	1541 Sep 03 j 09:53	0°♒			1544 Mar 26 j 05:27	0°♒		
	1541 Sep 27 j 12:48	0°♌		desc. node	1544 Mar 26 j 20:30	0°♒41'03		
desc. node	1541 Oct 10 j 01:31	15°♌34'47			1544 Apr 21 j 23:09	0°♑		
	1541 Oct 21 j 15:56	0°♑			1544 May 17 j 18:46	0°♒		
	1541 Nov 14 j 20:09	0°♓			1544 Jun 12 j 02:43	0°♐		
	1541 Dec 09 j 03:11	0°♈			1544 Jul 07 j 01:56	0°♉		
	1542 Jan 02 j 17:19	0°♒		asc. node	1544 Jul 17 j 23:53	13°♉14'42		
	1542 Jan 27 j 23:30	0°♑			1544 Jul 31 j 17:06	0°♏		
asc. node	1542 Jan 31 j 04:40	3°♑43'29			1544 Aug 25 j 01:00	0°♐		
	1542 Feb 23 j 17:39	0°♒		morning set	1544 Aug 29 j 16:06	5°♐44'37		
evening max el	1542 Mar 09 j 07:53	14°♒00'12	46°02'23		1544 Sep 18 j 03:24	0°♒		
	1542 Mar 26 j 23:24	0°♐		max. Earth dist.	1544 Oct 03 j 18:50	19°♒34'14	1.71656 AU	
greatest brilliancy	1542 Apr 16 j 18:21	12°♐55'00	-4.7m					
retrograde	1542 Apr 27 j 16:41	15°♐06'20		superior conj	1544 Oct 06 j 08:13	22°♒46'29	1°05'24	
evening set	1542 May 12 j 21:40	10°♐36'45		minimum elong	1544 Oct 06 j 18:22	23°♒18'15	1°05'05	
inferior conj	1542 May 19 j 03:39	6°♐51'12	0°50'53		1544 Oct 12 j 02:33	0°♌		
minimum elong	1542 May 19 j 05:31	6°♐48'17	0°50'20		1544 Nov 05 j 00:19	0°♑		
min. Earth dist.	1542 May 19 j 04:38	6°♐49'39	0.28896 AU	desc. node	1544 Nov 06 j 13:18	1°♑56'05		
desc. node	1542 May 22 j 17:57	4°♐37'34		evening rise	1544 Nov 15 j 13:02	13°♑13'11		
morning rise	1542 May 25 j 13:25	2°♐59'59			1544 Nov 28 j 21:55	0°♓		
	1542 Jun 01 j 05:08	30°♒♎			1544 Dec 22 j 20:28	0°♈		
direct	1542 Jun 09 j 16:39	28°♒34'21			1545 Jan 15 j 21:48	0°♒		
	1542 Jun 18 j 13:38	0°♐			1545 Feb 09 j 04:59	0°♑		
greatest brilliancy	1542 Jun 20 j 01:20	0°♐29'35	-4.7m	asc. node	1545 Feb 27 j 16:42	22°♑29'24		
morning max el	1542 Jul 28 j 12:05	28°♐19'20	45°48'33		1545 Mar 05 j 22:40	0°♒		
	1542 Jul 30 j 05:55	0°♉			1545 Mar 31 j 09:57	0°♐		
	1542 Aug 27 j 21:14	0°♏			1545 Apr 27 j 05:15	0°♉		
asc. node	1542 Sep 12 j 21:37	18°♏09'43		evening max el	1545 May 18 j 23:50	22°♉17'00	45°22'17	
	1542 Sep 23 j 00:59	0°♐			1545 May 27 j 08:17	0°♏		
	1542 Oct 18 j 00:36	0°♒		desc. node	1545 Jun 19 j 05:54	16°♏50'23		
	1542 Nov 11 j 09:19	0°♌		greatest brilliancy	1545 Jun 26 j 01:52	19°♏54'21	-4.7m	
	1542 Dec 05 j 10:50	0°♑		retrograde	1545 Jul 06 j 12:04	21°♏50'29		
	1542 Dec 29 j 09:40	0°♓		evening set	1545 Jul 23 j 05:45	16°♏33'57		
desc. node	1543 Jan 02 j 10:50	5°♓04'32		inferior conj	1545 Jul 27 j 21:42	13°♏43'52	-7°31'17	
	1543 Jan 22 j 08:14	0°♈		minimum elong	1545 Jul 27 j 13:00	13°♏57'25	7°30'02	
morning set	1543 Jan 29 j 15:23	9°♈08'06		min. Earth dist.	1545 Jul 28 j 01:38	13°♏37'44	0.28823 AU	
	1543 Feb 15 j 07:57	0°♒		morning rise	1545 Jul 31 j 20:07	11°♏19'12		
				direct	1545 Aug 18 j 12:18	5°♏28'58		
superior conj	1543 Mar 10 j 21:26	29°♒21'06	-1°22'01	greatest brilliancy	1545 Aug 29 j 05:26	7°♏34'22	-4.8m	
minimum elong	1543 Mar 11 j 03:35	29°♒40'11	1°21'57		1545 Sep 29 j 23:55	0°♐		
	1543 Mar 11 j 09:58	0°♑		morning max el	1545 Oct 07 j 09:28	7°♐09'04	46°25'56	
max. Earth dist.	1543 Mar 14 j 15:38	4°♑01'11	1.72403 AU	asc. node	1545 Oct 10 j 09:25	10°♐10'15		
	1543 Apr 04 j 15:06	0°♒			1545 Oct 28 j 21:57	0°♒		
evening rise	1543 Apr 18 j 13:54	17°♒12'04			1545 Nov 23 j 21:01	0°♌		
asc. node	1543 Apr 25 j 14:26	25°♒50'11			1545 Dec 18 j 18:14	0°♑		
	1543 Apr 28 j 23:48	0°♐			1546 Jan 12 j 04:55	0°♓		
	1543 May 23 j 12:04	0°♉		desc. node	1546 Jan 29 j 22:47	21°♓54'41		

morning set	1546 Feb 05 j 11:44	0°♊	desc. node	1548 Jul 16 j 17:47	18°♎40'53	
	1546 Mar 01 j 17:47	0°♋		1548 Jul 28 j 00:32	0°♌	
	1546 Mar 26 j 00:34	0°♌	evening max el	1548 Jul 29 j 17:08	1°♌37'52	45°54'38
	1546 Apr 12 j 23:20	22°♌07'44		1548 Sep 06 j 15:02	0°♍	
	1546 Apr 19 j 08:47	0°♍	greatest brilliancy	1548 Sep 07 j 20:58	0°♍25'16	-4.8m
	1546 May 13 j 18:17	0°♎	retrograde	1548 Sep 16 j 20:36	1°♍54'32	
				1548 Sep 26 j 16:16	30°♎♌	
superior conj	1546 May 20 j 03:21	7°♎50'06 -0°07'03	evening set	1548 Oct 03 j 10:06	26°♎43'32	
minimum elong	1546 May 20 j 04:49	7°♎54'36 0°06'59	inferior conj	1548 Oct 07 j 17:00	24°♎10'22	-6°45'21
behind sun begin	1546 May 19 j 08:12	6°♎51'17	minimum elong	1548 Oct 08 j 03:28	23°♎54'25	6°43'14
behind sun end	1546 May 21 j 01:26	8°♎57'55	min. Earth dist.	1548 Oct 08 j 15:10	23°♎36'35	0.27249 AU
max. Earth dist.	1546 May 20 j 13:02	8°♎19'50 1.73556 AU	morning rise	1548 Oct 12 j 20:16	21°♎07'06	
asc. node	1546 May 23 j 02:14	11°♎27'46	direct	1548 Oct 28 j 12:32	16°♎17'34	
	1546 Jun 07 j 04:21	0°♏	asc. node	1548 Nov 06 j 21:04	17°♎57'25	
evening rise	1546 Jun 25 j 07:38	22°♏16'53	greatest brilliancy	1548 Nov 08 j 16:17	18°♎37'28	-4.9m
	1546 Jul 01 j 14:21	0°♐		1548 Nov 26 j 22:41	0°♏	
	1546 Jul 26 j 00:24	0°♑	morning max el	1548 Dec 18 j 06:54	19°♏43'42	46°57'04
	1546 Aug 19 j 11:30	0°♒		1548 Dec 28 j 01:53	0°♑	
desc. node	1546 Sep 11 j 15:36	28°♒18'08		1549 Jan 23 j 19:26	0°♒	
	1546 Sep 13 j 01:04	0°♓		1549 Feb 18 j 07:25	0°♓	
	1546 Oct 07 j 18:41	0°♑	desc. node	1549 Feb 26 j 10:41	9°♓43'02	
	1546 Nov 01 j 19:23	0°♒		1549 Mar 15 j 07:48	0°♋	
	1546 Nov 27 j 11:41	0°♓		1549 Apr 09 j 03:10	0°♌	
	1546 Dec 24 j 22:21	0°♋		1549 May 03 j 20:15	0°♍	
evening max el	1546 Dec 25 j 16:58	0°♋47'37 47°10'04		1549 May 28 j 11:38	0°♎	
asc. node	1547 Jan 02 j 18:57	8°♋47'56	asc. node	1549 Jun 19 j 14:07	27°♎00'46	
	1547 Jan 30 j 02:32	0°♌	morning set	1549 Jun 20 j 02:08	27°♎37'35	
greatest brilliancy	1547 Feb 04 j 01:41	2°♌14'33 -4.9m		1549 Jun 22 j 00:37	0°♏	
retrograde	1547 Feb 14 j 12:20	4°♌18'24		1549 Jul 16 j 10:21	0°♐	
	1547 Mar 01 j 04:13	30°♋♋	max. Earth dist.	1549 Jul 23 j 08:35	8°♐32'53 1.73148 AU	
evening set	1547 Mar 04 j 09:42	28°♋06'31				
min. Earth dist.	1547 Mar 07 j 04:31	26°♋22'01 0.28113 AU	superior conj	1549 Jul 26 j 10:42	12°♐21'51 1°12'54	
inferior conj	1547 Mar 07 j 14:11	26°♋06'44 8°28'06	minimum elong	1549 Jul 26 j 02:54	11°♐57'43 1°12'42	
minimum elong	1547 Mar 07 j 19:05	25°♋58'58 8°27'45		1549 Aug 09 j 16:44	0°♑	
morning rise	1547 Mar 11 j 04:43	23°♋52'13	evening rise	1549 Aug 31 j 20:14	27°♑29'10	
direct	1547 Mar 28 j 14:17	18°♋04'18		1549 Sep 02 j 20:47	0°♒	
greatest brilliancy	1547 Apr 06 j 20:58	19°♋39'47 -4.8m		1549 Sep 26 j 23:58	0°♓	
desc. node	1547 Apr 24 j 08:06	29°♋16'19	desc. node	1549 Oct 09 j 03:27	15°♓05'44	
	1547 Apr 25 j 07:58	0°♌		1549 Oct 21 j 03:23	0°♑	
morning max el	1547 May 16 j 14:08	18°♌22'05 45°52'15		1549 Nov 14 j 07:57	0°♒	
	1547 May 28 j 06:49	0°♍		1549 Dec 08 j 15:29	0°♓	
	1547 Jun 25 j 03:45	0°♎		1550 Jan 02 j 06:23	0°♋	
	1547 Jul 21 j 09:52	0°♏		1550 Jan 27 j 14:05	0°♌	
asc. node	1547 Aug 15 j 11:49	29°♏40'59	asc. node	1550 Jan 30 j 06:46	3°♌06'50	
	1547 Aug 15 j 18:09	0°♐		1550 Feb 23 j 11:52	0°♍	
	1547 Sep 09 j 11:08	0°♑	evening max el	1550 Mar 06 j 23:41	11°♍47'08 46°04'51	
	1547 Oct 03 j 17:27	0°♒		1550 Mar 27 j 09:59	0°♎	
	1547 Oct 27 j 17:17	0°♓	greatest brilliancy	1550 Apr 14 j 10:40	10°♎45'19 -4.8m	
greatest brilliancy	1547 Nov 05 j 00:45	10°♓26'06 -3.9m	retrograde	1550 Apr 25 j 09:58	12°♎57'22	
morning set	1547 Nov 10 j 22:44	17°♓52'18	evening set	1550 May 10 j 15:24	8°♎25'52	
	1547 Nov 20 j 14:06	0°♑	inferior conj	1550 May 16 j 20:06	4°♎41'55 1°10'35	
desc. node	1547 Dec 05 j 01:02	18°♑11'37	minimum elong	1550 May 16 j 22:40	4°♎37'53 1°09'51	
	1547 Dec 14 j 10:07	0°♒	min. Earth dist.	1550 May 16 j 20:53	4°♎40'41 0.28881 AU	
			desc. node	1550 May 21 j 19:58	1°♎38'51	
superior conj	1547 Dec 22 j 06:47	9°♒53'31 -0°39'42	morning rise	1550 May 23 j 06:06	0°♎50'44	
minimum elong	1547 Dec 21 j 21:05	9°♒23'00 0°39'16		1550 May 24 j 20:32	30°♎♋	
max. Earth dist.	1547 Dec 23 j 21:28	11°♒55'09 1.71099 AU	direct	1550 Jun 07 j 09:09	26°♋25'19	
	1548 Jan 07 j 06:40	0°♓	greatest brilliancy	1550 Jun 17 j 16:44	28°♋20'08 -4.7m	
	1548 Jan 31 j 04:56	0°♋		1550 Jun 21 j 18:11	0°♎	
evening rise	1548 Feb 01 j 14:28	1°♋44'49	morning max el	1550 Jul 26 j 04:57	26°♎11'51 45°47'52	
	1548 Feb 24 j 06:30	0°♌		1550 Jul 30 j 03:03	0°♏	
	1548 Mar 19 j 13:19	0°♍		1550 Aug 27 j 12:29	0°♐	
asc. node	1548 Mar 27 j 04:37	9°♍21'46	asc. node	1550 Sep 11 j 23:40	17°♐35'35	
	1548 Apr 13 j 03:22	0°♎		1550 Sep 22 j 14:11	0°♑	
	1548 May 08 j 03:03	0°♏		1550 Oct 17 j 12:53	0°♒	
	1548 Jun 02 j 16:38	0°♐		1550 Nov 10 j 21:09	0°♓	
	1548 Jun 29 j 06:04	0°♑		1550 Dec 04 j 22:25	0°♑	

	1550 Dec 28 j 21:03	0°☾		evening set	1553 Jul 20 j 18:15	14°♌27'21	
desc. node	1551 Jan 01 j 13:01	4°☾35'44		inferior conj	1553 Jul 25 j 13:33	11°♌32'24	-7°20'51
	1551 Jan 21 j 19:27	0°≈		minimum elong	1553 Jul 25 j 04:29	11°♌46'32	7°19'27
morning set	1551 Jan 27 j 01:37	6°≈34'55		min. Earth dist.	1553 Jul 25 j 17:11	11°♌26'44	0.28844 AU
	1551 Feb 14 j 19:04	0°♋		morning rise	1553 Jul 29 j 14:31	9°♌03'39	
				direct	1553 Aug 16 j 03:58	3°♌17'11	
superior conj	1551 Mar 08 j 10:41	26°♋58'48	-1°23'03	greatest brilliancy	1553 Aug 26 j 21:10	5°♌21'56	-4.8m
minimum elong	1551 Mar 08 j 16:06	27°♋15'38	1°22'59		1553 Sep 30 j 00:45	0°♍	
	1551 Mar 10 j 20:59	0°♍		morning max el	1553 Oct 04 j 23:09	4°♍48'43	46°24'29
max. Earth dist.	1551 Mar 12 j 06:43	1°♍44'48	1.72350 AU	asc. node	1553 Oct 09 j 11:21	9°♍22'08	
	1551 Apr 04 j 02:06	0°♎			1553 Oct 28 j 14:38	0°♎	
evening rise	1551 Apr 16 j 05:45	14°♎59'19			1553 Nov 23 j 11:08	0°♎	
asc. node	1551 Apr 24 j 16:26	25°♎22'31			1553 Dec 18 j 07:11	0°♏	
	1551 Apr 28 j 10:49	0°♐			1554 Jan 11 j 17:13	0°♐	
	1551 May 22 j 23:14	0°♑		desc. node	1554 Jan 29 j 00:49	21°♐23'52	
	1551 Jun 16 j 15:45	0°♑			1554 Feb 04 j 23:37	0°≈	
	1551 Jul 11 j 13:53	0°♒			1554 Mar 01 j 05:21	0°♋	
	1551 Aug 05 j 20:45	0°♎			1554 Mar 25 j 11:53	0°♍	
desc. node	1551 Aug 14 j 05:40	9°♎47'55		morning set	1554 Apr 10 j 15:13	19°♍54'29	
	1551 Aug 31 j 18:09	0°♎			1554 Apr 18 j 19:53	0°♎	
	1551 Sep 27 j 19:59	0°♏			1554 May 13 j 05:15	0°♐	
evening max el	1551 Oct 12 j 02:49	14°♏47'18	47°03'35				
	1551 Oct 28 j 10:32	0°♐		superior conj	1554 May 17 j 20:47	5°♐42'33	-0°10'15
greatest brilliancy	1551 Nov 21 j 13:18	15°♐38'10	-4.9m	minimum elong	1554 May 17 j 22:55	5°♐49'08	0°10'09
retrograde	1551 Dec 01 j 15:29	17°♐33'59		behind sun begin	1554 May 17 j 05:14	4°♐54'47	
asc. node	1551 Dec 05 j 09:07	17°♐16'39		behind sun end	1554 May 18 j 16:37	6°♐43'29	
evening set	1551 Dec 16 j 04:25	13°♐19'23		max. Earth dist.	1554 May 18 j 08:35	6°♐18'49	1.73538 AU
min. Earth dist.	1551 Dec 21 j 12:09	10°♐11'54	0.26533 AU	asc. node	1554 May 22 j 04:20	11°♐00'36	
inferior conj	1551 Dec 22 j 03:59	9°♐47'40	4°11'49		1554 Jun 06 j 15:19	0°♑	
minimum elong	1551 Dec 21 j 19:24	10°♐00'49	4°09'21	evening rise	1554 Jun 23 j 02:24	20°♑13'13	
morning rise	1551 Dec 27 j 10:51	6°♐40'21			1554 Jul 01 j 01:26	0°♑	
direct	1552 Jan 11 j 13:05	2°♐10'18			1554 Jul 25 j 11:42	0°♒	
greatest brilliancy	1552 Jan 20 j 22:21	3°♐51'25	-4.9m		1554 Aug 18 j 23:09	0°♎	
	1552 Feb 26 j 02:10	0°≈		desc. node	1554 Sep 10 j 17:35	27°♎47'19	
morning max el	1552 Mar 01 j 14:26	4°≈23'58	46°34'57		1554 Sep 12 j 13:13	0°♎	
desc. node	1552 Mar 25 j 22:29	29°≈59'08			1554 Oct 07 j 07:35	0°♏	
	1552 Mar 25 j 22:48	0°♋			1554 Nov 01 j 09:29	0°♐	
	1552 Apr 21 j 13:29	0°♍			1554 Nov 27 j 04:03	0°≈	
	1552 May 17 j 07:36	0°♎		evening max el	1554 Dec 23 j 06:20	28°≈22'28	47°11'19
	1552 Jun 11 j 14:40	0°♐			1554 Dec 24 j 20:44	0°♋	
	1552 Jul 06 j 13:21	0°♑		asc. node	1555 Jan 01 j 20:59	7°♋50'26	
asc. node	1552 Jul 17 j 01:59	12°♑46'44		greatest brilliancy	1555 Feb 01 j 17:46	29°♋56'07	-4.9m
	1552 Jul 31 j 04:13	0°♑			1555 Feb 01 j 21:54	0°♍	
	1552 Aug 24 j 11:59	0°♒		retrograde	1555 Feb 12 j 03:08	1°♍59'23	
morning set	1552 Aug 27 j 08:39	3°♒32'57			1555 Feb 21 j 23:14	30°♋	
	1552 Sep 17 j 14:23	0°♎		evening set	1555 Mar 02 j 02:09	25°♋45'37	
max. Earth dist.	1552 Oct 01 j 04:38	17°♎00'11	1.71704 AU	inferior conj	1555 Mar 05 j 05:08	23°♋48'16	8°33'29
				minimum elong	1555 Mar 05 j 09:18	23°♋41'41	8°33'13
superior conj	1552 Oct 03 j 22:30	20°♎26'23	1°07'36	min. Earth dist.	1555 Mar 04 j 18:57	24°♋04'21	0.28071 AU
minimum elong	1552 Oct 04 j 08:23	20°♎57'20	1°07'19	morning rise	1555 Mar 08 j 16:39	21°♋38'19	
	1552 Oct 11 j 13:36	0°♎		direct	1555 Mar 26 j 03:58	15°♋46'26	
	1552 Nov 04 j 11:30	0°♏		greatest brilliancy	1555 Apr 04 j 11:03	17°♋22'01	-4.8m
desc. node	1552 Nov 05 j 15:21	1°♏27'24		desc. node	1555 Apr 23 j 10:10	28°♋04'57	
evening rise	1552 Nov 13 j 00:04	10°♏41'50			1555 Apr 25 j 22:14	0°♍	
	1552 Nov 28 j 09:16	0°♐		morning max el	1555 May 14 j 04:21	16°♍05'23	45°53'17
	1552 Dec 22 j 07:59	0°≈			1555 May 28 j 01:53	0°♎	
	1553 Jan 15 j 09:32	0°♋			1555 Jun 24 j 18:32	0°♐	
	1553 Feb 08 j 17:04	0°♍			1555 Jul 20 j 22:52	0°♑	
asc. node	1553 Feb 26 j 18:41	21°♍57'45		asc. node	1555 Aug 14 j 13:45	29°♑10'29	
	1553 Mar 05 j 11:22	0°♎			1555 Aug 15 j 06:14	0°♑	
	1553 Mar 30 j 23:57	0°♐			1555 Sep 08 j 22:45	0°♒	
	1553 Apr 26 j 22:17	0°♑			1555 Oct 03 j 04:48	0°♎	
evening max el	1553 May 16 j 14:54	20°♑03'45	45°22'28		1555 Oct 27 j 04:31	0°♎	
	1553 May 27 j 12:07	0°♑		greatest brilliancy	1555 Nov 04 j 11:00	10°♎23'03	-3.9m
desc. node	1553 Jun 18 j 08:04	15°♑23'51		morning set	1555 Nov 08 j 10:48	15°♎24'05	
greatest brilliancy	1553 Jun 23 j 17:05	17°♑42'59	-4.7m		1555 Nov 20 j 01:17	0°♏	
retrograde	1553 Jul 04 j 03:04	19°♑39'18		desc. node	1555 Dec 04 j 03:14	17°♏43'24	

	1555 Dec 13 j 21:17	0°♁		morning rise	1558 May 20 j 22:35	28°♁41'24	
				desc. node	1558 May 20 j 22:09	28°♁42'00	
superior conj	1555 Dec 19 j 16:42	7°♁18'41 -0°36'07		direct	1558 Jun 05 j 01:53	24°♁16'15	
minimum elong	1555 Dec 19 j 07:41	6°♁50'18 0°35'42		greatest brilliancy	1558 Jun 15 j 07:46	26°♁09'56	-4.7m
max. Earth dist.	1555 Dec 21 j 02:19	9°♁04'26 1.71087 AU			1558 Jun 23 j 14:40	0°♁	
	1556 Jan 06 j 17:49	0°♁		morning max el	1558 Jul 23 j 21:33	24°♁03'32	45°47'05
evening rise	1556 Jan 30 j 01:28	29°♁14'15			1558 Jul 29 j 23:35	0°♁	
	1556 Jan 30 j 16:06	0°♁			1558 Aug 27 j 03:37	0°♁	
	1556 Feb 23 j 17:44	0°♁		asc. node	1558 Sep 11 j 01:43	17°♁01'28	
	1556 Mar 19 j 00:43	0°♁			1558 Sep 22 j 03:19	0°♁	
asc. node	1556 Mar 26 j 06:36	8°♁52'45			1558 Oct 17 j 01:07	0°♁	
	1556 Apr 12 j 15:08	0°♁			1558 Nov 10 j 08:54	0°♁	
	1556 May 07 j 15:27	0°♁			1558 Dec 04 j 09:53	0°♁	
	1556 Jun 02 j 06:15	0°♁			1558 Dec 28 j 08:20	0°♁	
	1556 Jun 28 j 22:15	0°♁		desc. node	1558 Dec 31 j 14:58	4°♁06'35	
desc. node	1556 Jul 15 j 19:49	17°♁55'55			1559 Jan 21 j 06:34	0°♁	
evening max el	1556 Jul 27 j 06:41	29°♁18'46 45°52'33		morning set	1559 Jan 24 j 11:57	4°♁02'17	
	1556 Jul 27 j 23:57	0°♁			1559 Feb 14 j 06:02	0°♁	
greatest brilliancy	1556 Sep 05 j 08:51	28°♁01'49 -4.8m					
retrograde	1556 Sep 14 j 09:49	29°♁31'53		superior conj	1559 Mar 06 j 00:02	24°♁37'13 -1°23'56	
evening set	1556 Oct 01 j 02:15	24°♁15'35		minimum elong	1559 Mar 06 j 04:39	24°♁51'34 1°23'53	
inferior conj	1556 Oct 05 j 06:08	21°♁46'43 -6°59'34		max. Earth dist.	1559 Mar 09 j 23:32	29°♁34'10 1.72292 AU	
minimum elong	1556 Oct 05 j 16:25	21°♁31'02 6°57'36			1559 Mar 10 j 07:51	0°♁	
min. Earth dist.	1556 Oct 06 j 04:22	21°♁12'50 0.27317 AU			1559 Apr 03 j 12:54	0°♁	
morning rise	1556 Oct 10 j 06:04	18°♁48'18		evening rise	1559 Apr 13 j 21:40	12°♁47'18	
direct	1556 Oct 26 j 02:43	13°♁52'48		asc. node	1559 Apr 23 j 18:36	24°♁55'56	
asc. node	1556 Nov 05 j 23:14	16°♁06'01			1559 Apr 27 j 21:40	0°♁	
greatest brilliancy	1556 Nov 06 j 06:31	16°♁13'11 -4.9m			1559 May 22 j 10:16	0°♁	
	1556 Nov 27 j 11:12	0°♁			1559 Jun 16 j 03:10	0°♁	
morning max el	1556 Dec 15 j 22:07	17°♁22'13 46°57'00			1559 Jul 11 j 01:58	0°♁	
	1556 Dec 27 j 21:21	0°♁			1559 Aug 05 j 09:56	0°♁	
	1557 Jan 23 j 10:46	0°♁		desc. node	1559 Aug 13 j 07:37	9°♁13'52	
	1557 Feb 17 j 20:54	0°♁			1559 Aug 31 j 09:17	0°♁	
desc. node	1557 Feb 25 j 12:41	9°♁09'48			1559 Sep 27 j 15:21	0°♁	
	1557 Mar 14 j 20:13	0°♁		evening max el	1559 Oct 09 j 16:59	12°♁24'40 47°01'38	
	1557 Apr 08 j 14:57	0°♁			1559 Oct 28 j 22:06	0°♁	
	1557 May 03 j 07:37	0°♁		greatest brilliancy	1559 Nov 19 j 02:55	13°♁09'54 -4.9m	
	1557 May 27 j 22:43	0°♁		retrograde	1559 Nov 29 j 03:52	15°♁04'02	
morning set	1557 Jun 17 j 20:13	25°♁32'28		asc. node	1559 Dec 04 j 11:09	14°♁29'12	
asc. node	1557 Jun 18 j 16:13	26°♁33'45		evening set	1559 Dec 13 j 15:04	10°♁52'49	
	1557 Jun 21 j 11:32	0°♁		min. Earth dist.	1559 Dec 19 j 01:42	7°♁41'09 0.26500 AU	
	1557 Jul 15 j 21:11	0°♁		inferior conj	1559 Dec 19 j 16:14	7°♁18'53 3°50'00	
max. Earth dist.	1557 Jul 21 j 06:00	6°♁37'18 1.73186 AU		minimum elong	1559 Dec 19 j 08:13	7°♁31'09 3°47'38	
				morning rise	1559 Dec 25 j 01:49	4°♁07'39	
superior conj	1557 Jul 24 j 04:40	10°♁15'29 1°11'13			1560 Jan 05 j 05:45	30°♁♁	
minimum elong	1557 Jul 23 j 20:35	9°♁50'31 1°11'00		direct	1560 Jan 09 j 01:17	29°♁42'07	
	1557 Aug 09 j 03:36	0°♁			1560 Jan 12 j 22:18	0°♁	
evening rise	1557 Aug 29 j 12:26	25°♁16'11		greatest brilliancy	1560 Jan 18 j 11:53	1°♁24'06 -4.9m	
	1557 Sep 02 j 07:50	0°♁			1560 Feb 26 j 02:51	0°♁	
	1557 Sep 26 j 11:15	0°♁		morning max el	1560 Feb 28 j 02:49	1°♁58'11 46°36'28	
desc. node	1557 Oct 08 j 05:31	14°♁36'47		desc. node	1560 Mar 25 j 00:32	29°♁18'37	
	1557 Oct 20 j 14:57	0°♁			1560 Mar 25 j 15:32	0°♁	
	1557 Nov 13 j 19:52	0°♁			1560 Apr 21 j 03:20	0°♁	
	1557 Dec 08 j 03:51	0°♁			1560 May 16 j 20:01	0°♁	
	1558 Jan 01 j 19:32	0°♁			1560 Jun 11 j 02:15	0°♁	
	1558 Jan 27 j 04:45	0°♁			1560 Jul 06 j 00:28	0°♁	
asc. node	1558 Jan 29 j 08:46	2°♁29'47		asc. node	1560 Jul 16 j 03:57	12°♁19'11	
	1558 Feb 23 j 06:26	0°♁			1560 Jul 30 j 15:06	0°♁	
evening max el	1558 Mar 04 j 16:07	9°♁35'47 46°07'14			1560 Aug 23 j 22:48	0°♁	
	1558 Mar 28 j 00:05	0°♁		morning set	1560 Aug 25 j 01:02	1°♁21'21	
greatest brilliancy	1558 Apr 12 j 03:10	8°♁36'02 -4.8m			1560 Sep 17 j 01:12	0°♁	
retrograde	1558 Apr 23 j 03:05	10°♁48'12		max. Earth dist.	1560 Sep 28 j 14:14	14°♁26'05 1.71753 AU	
evening set	1558 May 08 j 09:17	6°♁14'53					
inferior conj	1558 May 14 j 12:31	2°♁32'32 1°30'17		superior conj	1560 Oct 01 j 12:40	18°♁06'32 1°09'43	
minimum elong	1558 May 14 j 15:47	2°♁27'24 1°29'20		minimum elong	1560 Oct 01 j 22:15	18°♁36'31 1°09'26	
min. Earth dist.	1558 May 14 j 13:03	2°♁31'42 0.28870 AU			1560 Oct 11 j 00:29	0°♁	
	1558 May 18 j 15:35	30°♁♁			1560 Nov 03 j 22:28	0°♁	

desc. node	1560 Nov 04 j 17:30	0°♊59'44		morning max el	1563 May 11 j 19:34	13°♊52'12	45°54'27
evening rise	1560 Nov 10 j 10:57	8°♊10'51			1563 May 27 j 20:00	0°♋	
	1560 Nov 27 j 20:21	0°♌			1563 Jun 24 j 08:43	0°♍	
	1560 Dec 21 j 19:15	0°♎			1563 Jul 20 j 11:20	0°♏	
	1561 Jan 14 j 21:00	0°♐		asc. node	1563 Aug 13 j 15:53	28°♏41'56	
	1561 Feb 08 j 04:52	0°♑			1563 Aug 14 j 17:51	0°♐	
asc. node	1561 Feb 25 j 20:43	21°♑27'04			1563 Sep 08 j 09:55	0°♑	
	1561 Mar 04 j 23:48	0°♒			1563 Oct 02 j 15:45	0°♓	
	1561 Mar 30 j 13:42	0°♈			1563 Oct 26 j 15:25	0°♌	
	1561 Apr 26 j 15:13	0°♉		greatest brilliancy	1563 Nov 03 j 20:56	10°♌19'59	-3.9m
evening max el	1561 May 14 j 05:35	17°♉50'52	45°22'49	morning set	1563 Nov 05 j 22:55	12°♌57'02	
	1561 May 27 j 17:08	0°♊			1563 Nov 19 j 12:12	0°♋	
desc. node	1561 Jun 17 j 10:02	13°♊55'41		desc. node	1563 Dec 03 j 05:14	17°♋15'19	
greatest brilliancy	1561 Jun 21 j 07:57	15°♊32'50	-4.7m		1563 Dec 13 j 08:14	0°♌	
retrograde	1561 Jul 01 j 18:20	17°♊30'07					
evening set	1561 Jul 18 j 06:58	12°♊22'13		superior conj	1563 Dec 17 j 02:10	4°♌43'01	-0°32'23
inferior conj	1561 Jul 23 j 05:35	9°♊22'41	-7°09'46	minimum elong	1563 Dec 16 j 17:55	4°♌17'04	0°32'01
minimum elong	1561 Jul 22 j 20:14	9°♊37'16	7°08'13	max. Earth dist.	1563 Dec 18 j 08:36	6°♌18'48	1.71079 AU
min. Earth dist.	1561 Jul 23 j 08:59	9°♊17'23	0.28869 AU		1564 Jan 06 j 04:45	0°♍	
morning rise	1561 Jul 27 j 09:14	6°♊49'52		evening rise	1564 Jan 27 j 11:57	26°♍42'46	
direct	1561 Aug 13 j 19:40	1°♋06'55			1564 Jan 30 j 03:01	0°♐	
greatest brilliancy	1561 Aug 24 j 13:39	3°♋11'51	-4.8m		1564 Feb 23 j 04:42	0°♑	
	1561 Sep 30 j 00:06	0°♒			1564 Mar 18 j 11:51	0°♋	
morning max el	1561 Oct 02 j 13:29	2°♒30'51	46°22'54	asc. node	1564 Mar 25 j 08:47	8°♋25'12	
asc. node	1561 Oct 08 j 13:32	8°♒36'04			1564 Apr 12 j 02:36	0°♈	
	1561 Oct 28 j 06:47	0°♉			1564 May 07 j 03:34	0°♉	
	1561 Nov 23 j 00:54	0°♊			1564 Jun 01 j 19:36	0°♊	
	1561 Dec 17 j 19:48	0°♋			1564 Jun 28 j 14:17	0°♋	
	1562 Jan 11 j 05:11	0°♌		desc. node	1564 Jul 14 j 21:52	17°♋11'38	
desc. node	1562 Jan 28 j 02:51	20°♌54'07		evening max el	1564 Jul 24 j 21:23	27°♋04'00	45°50'35
	1562 Feb 04 j 11:08	0°♍			1564 Jul 27 j 23:49	0°♌	
	1562 Feb 28 j 16:32	0°♐		greatest brilliancy	1564 Sep 02 j 20:44	25°♌40'40	-4.8m
	1562 Mar 24 j 22:48	0°♑		retrograde	1564 Sep 11 j 23:16	27°♌11'32	
morning set	1562 Apr 08 j 07:07	17°♑42'18		evening set	1564 Sep 28 j 18:42	21°♌50'16	
	1562 Apr 18 j 06:36	0°♋		inferior conj	1564 Oct 02 j 19:34	19°♌25'27	-7°12'47
	1562 May 12 j 15:51	0°♈		minimum elong	1564 Oct 03 j 05:38	19°♌10'07	7°10'57
				min. Earth dist.	1564 Oct 03 j 17:34	18°♌51'55	0.27386 AU
superior conj	1562 May 15 j 14:29	3°♈36'58	-0°13'26	morning rise	1564 Oct 07 j 16:07	16°♌31'49	
minimum elong	1562 May 15 j 17:17	3°♈45'35	0°13'18	direct	1564 Oct 23 j 17:34	11°♌30'35	
behind sun begin	1562 May 15 j 04:42	3°♈06'54		greatest brilliancy	1564 Nov 03 j 20:31	13°♌50'29	-4.9m
behind sun end	1562 May 16 j 05:52	4°♈24'15		asc. node	1564 Nov 05 j 01:17	14°♌20'29	
max. Earth dist.	1562 May 16 j 03:34	4°♈17'11	1.73517 AU		1564 Nov 27 j 19:59	0°♍	
asc. node	1562 May 21 j 06:26	10°♈34'32		morning max el	1564 Dec 13 j 13:23	15°♌01'52	46°56'30
	1562 Jun 06 j 01:54	0°♉			1564 Dec 27 j 16:01	0°♋	
evening rise	1562 Jun 20 j 21:33	18°♉12'04			1565 Jan 23 j 01:43	0°♌	
	1562 Jun 30 j 12:06	0°♊			1565 Feb 17 j 10:08	0°♍	
	1562 Jul 24 j 22:36	0°♋		desc. node	1565 Feb 24 j 14:48	8°♍37'24	
	1562 Aug 18 j 10:26	0°♌			1565 Mar 14 j 08:27	0°♐	
desc. node	1562 Sep 09 j 19:42	27°♌17'49			1565 Apr 08 j 02:31	0°♑	
	1562 Sep 12 j 01:05	0°♍			1565 May 02 j 18:44	0°♋	
	1562 Oct 06 j 20:18	0°♋			1565 May 27 j 09:33	0°♈	
	1562 Oct 31 j 23:30	0°♌		morning set	1565 Jun 15 j 14:24	23°♈28'33	
	1562 Nov 26 j 20:29	0°♍		asc. node	1565 Jun 17 j 18:09	26°♈07'01	
evening max el	1562 Dec 20 j 20:06	25°♍59'05	47°12'46		1565 Jun 20 j 22:12	0°♉	
	1562 Dec 24 j 19:45	0°♐			1565 Jul 15 j 07:46	0°♊	
asc. node	1562 Dec 31 j 22:58	6°♐52'18		max. Earth dist.	1565 Jul 19 j 02:02	4°♊38'18	1.73219 AU
greatest brilliancy	1563 Jan 30 j 09:20	27°♐37'48	-4.9m				
retrograde	1563 Feb 09 j 18:22	29°♐41'17		superior conj	1565 Jul 21 j 22:57	8°♊10'59	1°09'28
evening set	1563 Feb 27 j 18:15	23°♐25'48		minimum elong	1565 Jul 21 j 14:38	7°♊45'18	1°09'13
inferior conj	1563 Mar 02 j 20:02	21°♐30'34	8°38'01		1565 Aug 08 j 14:15	0°♋	
minimum elong	1563 Mar 02 j 23:27	21°♐25'11	8°37'50	evening rise	1565 Aug 27 j 05:08	23°♋05'38	
min. Earth dist.	1563 Mar 02 j 09:08	21°♐47'46	0.28024 AU		1565 Sep 01 j 18:36	0°♌	
morning rise	1563 Mar 06 j 04:49	19°♐24'57			1565 Sep 25 j 22:15	0°♍	
direct	1563 Mar 23 j 17:45	13°♐29'18		desc. node	1565 Oct 07 j 07:40	14°♍08'56	
greatest brilliancy	1563 Apr 02 j 00:53	15°♐05'02	-4.8m		1565 Oct 20 j 02:15	0°♋	
desc. node	1563 Apr 22 j 12:22	26°♐56'54			1565 Nov 13 j 07:33	0°♌	
	1563 Apr 26 j 08:22	0°♑			1565 Dec 07 j 16:05	0°♍	

	1566 Jan 01 j 08:39	0° H		1568 Jun 10 j 13:59	0° II	
	1566 Jan 26 j 19:34	0° Y		1568 Jul 05 j 11:43	0° G	
asc. node	1566 Jan 28 j 10:51	1° Y 52'42		1568 Jul 15 j 06:05	11° G 51'48	
	1566 Feb 23 j 01:32	0° B		1568 Jul 30 j 02:05	0° Q	
evening max el	1566 Mar 02 j 08:27	7° B 23'58 46°09'37		1568 Aug 22 j 17:23	29° Q 09'29	
	1566 Mar 28 j 19:11	0° II		1568 Aug 23 j 09:41	0° M	
greatest brilliancy	1566 Apr 09 j 20:20	6° II 27'19 -4.8m		1568 Sep 16 j 12:06	0° A	
retrograde	1566 Apr 20 j 19:43	8° II 38'41		1568 Sep 26 j 02:24	11° A 59'51 1.71804 AU	
evening set	1566 May 06 j 03:15	4° II 03'39				
inferior conj	1566 May 12 j 04:52	0° II 23'06 1°49'55		superior conj	1568 Sep 29 j 03:02	15° A 47'04 1°11'41
minimum elong	1566 May 12 j 08:49	0° II 16'53 1°48'46		minimum elong	1568 Sep 29 j 12:14	16° A 15'51 1°11'26
min. Earth dist.	1566 May 12 j 05:22	0° II 22'19 0.28852 AU			1568 Oct 10 j 11:27	0° M
	1566 May 12 j 19:34	30° R B			1568 Nov 03 j 09:33	0° A
morning rise	1566 May 18 j 14:45	26° B 32'02		desc. node	1568 Nov 03 j 19:29	0° A 31'09
desc. node	1566 May 20 j 00:06	25° B 47'55		evening rise	1568 Nov 07 j 22:12	5° A 40'44
direct	1566 Jun 02 j 18:22	22° B 07'16			1568 Nov 27 j 07:34	0° B
greatest brilliancy	1566 Jun 12 j 22:41	23° B 59'37 -4.7m			1568 Dec 21 j 06:37	0° \approx
	1566 Jun 24 j 20:49	0° II			1569 Jan 14 j 08:34	0° H
morning max el	1566 Jul 21 j 13:21	21° II 53'40 45°46'25			1569 Feb 07 j 16:47	0° Y
	1566 Jul 29 j 19:18	0° G		asc. node	1569 Feb 24 j 22:53	20° Y 56'17
	1566 Aug 26 j 18:22	0° Q			1569 Mar 04 j 12:26	0° B
asc. node	1566 Sep 10 j 03:48	16° Q 28'09			1569 Mar 30 j 03:48	0° II
	1566 Sep 21 j 16:13	0° M			1569 Apr 26 j 08:49	0° G
	1566 Oct 16 j 13:07	0° A		evening max el	1569 May 11 j 20:20	15° G 37'20 45°23'13
	1566 Nov 09 j 20:28	0° M			1569 May 28 j 00:54	0° Q
	1566 Dec 03 j 21:11	0° A		desc. node	1569 Jun 16 j 12:06	12° Q 23'27
	1566 Dec 27 j 19:27	0° B		greatest brilliancy	1569 Jun 18 j 22:15	13° Q 20'57 -4.7m
desc. node	1566 Dec 30 j 17:01	3° B 38'07		retrograde	1569 Jun 29 j 10:02	15° Q 19'55
	1567 Jan 20 j 17:35	0° \approx		evening set	1569 Jul 15 j 19:37	10° Q 15'47
morning set	1567 Jan 21 j 22:15	1° \approx 29'48		inferior conj	1569 Jul 20 j 21:30	7° Q 11'50 -6°57'56
	1567 Feb 13 j 16:59	0° H		minimum elong	1569 Jul 20 j 11:54	7° Q 26'46 6°56'17
				min. Earth dist.	1569 Jul 21 j 00:28	7° Q 07'13 0.28891 AU
superior conj	1567 Mar 03 j 13:03	22° H 14'29 -1°24'39		morning rise	1569 Jul 25 j 03:55	4° Q 35'03
minimum elong	1567 Mar 03 j 16:49	22° H 26'11 1°24'38			1569 Aug 04 j 02:51	30° R G
max. Earth dist.	1567 Mar 07 j 15:23	27° H 20'21 1.72237 AU		direct	1569 Aug 11 j 11:21	28° G 55'33
	1567 Mar 09 j 18:44	0° Y			1569 Aug 19 j 02:30	0° Q
	1567 Apr 02 j 23:45	0° B		greatest brilliancy	1569 Aug 22 j 06:00	1° Q 00'55 -4.8m
evening rise	1567 Apr 11 j 13:01	10° B 33'14			1569 Sep 29 j 22:43	0° M
asc. node	1567 Apr 22 j 20:36	24° B 28'43		morning max el	1569 Sep 30 j 04:33	0° M 14'25 46°21'24
	1567 Apr 27 j 08:33	0° II		asc. node	1569 Oct 07 j 15:36	7° M 49'50
	1567 May 21 j 21:20	0° G			1569 Oct 27 j 22:51	0° A
	1567 Jun 15 j 14:37	0° Q			1569 Nov 22 j 14:43	0° M
	1567 Jul 10 j 14:05	0° M			1569 Dec 17 j 08:32	0° A
	1567 Aug 04 j 23:11	0° A			1570 Jan 10 j 17:17	0° B
desc. node	1567 Aug 12 j 09:46	8° A 40'14		desc. node	1570 Jan 27 j 04:58	20° B 24'12
	1567 Aug 31 j 00:35	0° M			1570 Feb 03 j 22:49	0° \approx
	1567 Sep 27 j 11:12	0° A			1570 Feb 28 j 03:53	0° H
evening max el	1567 Oct 07 j 06:31	10° A 00'50 46°59'41			1570 Mar 24 j 09:53	0° Y
	1567 Oct 29 j 13:12	0° B		morning set	1570 Apr 05 j 23:02	15° Y 29'29
greatest brilliancy	1567 Nov 16 j 17:09	10° B 43'09 -4.9m			1570 Apr 17 j 17:31	0° B
retrograde	1567 Nov 26 j 15:58	12° B 35'19			1570 May 12 j 02:43	0° II
asc. node	1567 Dec 03 j 13:06	11° B 37'00				
evening set	1567 Dec 11 j 02:11	8° B 26'52		superior conj	1570 May 13 j 08:04	1° II 30'11 -0°16'36
min. Earth dist.	1567 Dec 16 j 15:49	5° B 11'09 0.26472 AU		minimum elong	1570 May 13 j 11:31	1° II 40'49 0°16'26
inferior conj	1567 Dec 17 j 04:45	4° B 51'19 3°27'47		max. Earth dist.	1570 May 13 j 23:26	2° II 17'25 1.73503 AU
minimum elong	1567 Dec 16 j 21:23	5° B 02'38 3°25'34		asc. node	1570 May 20 j 08:24	10° II 07'18
morning rise	1567 Dec 22 j 16:54	1° B 36'20			1570 Jun 05 j 12:47	0° G
	1567 Dec 25 j 21:19	30° R A		evening rise	1570 Jun 18 j 16:31	16° G 09'24
direct	1568 Jan 06 j 13:16	27° A 14'51			1570 Jun 29 j 23:06	0° Q
greatest brilliancy	1568 Jan 16 j 02:14	28° A 58'27 -4.9m			1570 Jul 24 j 09:50	0° M
	1568 Jan 18 j 17:31	0° B			1570 Aug 17 j 22:03	0° A
morning max el	1568 Feb 25 j 14:56	29° B 31'44 46°37'47		desc. node	1570 Sep 08 j 21:47	26° A 47'17
	1568 Feb 26 j 02:18	0° \approx			1570 Sep 11 j 13:17	0° M
desc. node	1568 Mar 24 j 02:41	28° \approx 38'41			1570 Oct 06 j 09:21	0° A
	1568 Mar 25 j 07:59	0° H			1570 Oct 31 j 13:56	0° B
	1568 Apr 20 j 17:12	0° Y			1570 Nov 26 j 13:31	0° \approx
	1568 May 16 j 08:32	0° B		evening max el	1570 Dec 18 j 10:56	23° \approx 37'32 47°14'05

	1570 Dec 24 j 20:10	0° H			1573 Jul 14 j 18:40	0° Ω	
asc. node	1570 Dec 31 j 01:09	5° H 52'18		max. Earth dist.	1573 Jul 16 j 21:14	2° Ω 35'51	1.73255 AU
greatest brilliancy	1571 Jan 28 j 00:14	25° H 17'35	-4.9m				
retrograde	1571 Feb 07 j 09:59	27° H 21'56		superior conj	1573 Jul 19 j 17:20	6° Ω 05'54	1°07'36
evening set	1571 Feb 25 j 09:52	21° H 05'16		minimum elong	1573 Jul 19 j 08:51	5° Ω 39'43	1°07'22
inferior conj	1571 Feb 28 j 10:49	19° H 11'32	8°41'37		1573 Aug 08 j 01:13	0° M	
minimum elong	1571 Feb 28 j 13:26	19° H 07'26	8°41'31	evening rise	1573 Aug 24 j 21:49	20° M 53'58	
min. Earth dist.	1571 Feb 27 j 22:50	19° H 30'23	0.27975 AU		1573 Sep 01 j 05:46	0° Ω	
morning rise	1571 Mar 03 j 17:11	17° H 09'53			1573 Sep 25 j 09:40	0° M	
direct	1571 Mar 21 j 07:53	11° H 11'00		desc. node	1573 Oct 06 j 09:37	13° M 39'10	
greatest brilliancy	1571 Mar 30 j 14:02	12° H 46'21	-4.8m		1573 Oct 19 j 13:58	0° H	
desc. node	1571 Apr 21 j 14:17	25° H 49'23			1573 Nov 12 j 19:39	0° Z	
	1571 Apr 26 j 16:06	0° Y			1573 Dec 07 j 04:43	0° \approx	
morning max el	1571 May 09 j 11:21	11° Y 39'34	45°55'33		1573 Dec 31 j 22:10	0° H	
	1571 May 27 j 13:59	0° B			1574 Jan 26 j 10:53	0° Y	
	1571 Jun 23 j 23:06	0° II		asc. node	1574 Jan 27 j 12:57	1° Y 14'32	
	1571 Jul 20 j 00:08	0° G			1574 Feb 22 j 21:31	0° B	
asc. node	1571 Aug 12 j 17:59	28° G 12'08		evening max el	1574 Feb 28 j 00:00	5° B 09'07	46°11'57
	1571 Aug 14 j 05:50	0° Ω			1574 Mar 29 j 22:00	0° II	
	1571 Sep 07 j 21:27	0° M		greatest brilliancy	1574 Apr 07 j 13:58	4° II 18'07	-4.8m
	1571 Oct 02 j 03:04	0° Ω		retrograde	1574 Apr 18 j 11:49	6° II 28'15	
	1571 Oct 26 j 02:39	0° M		evening set	1574 May 03 j 21:19	1° II 51'19	
greatest brilliancy	1571 Nov 03 j 01:17	9° M 58'26	-3.9m		1574 May 07 j 00:43	30° R 8	
morning set	1571 Nov 03 j 11:06	10° M 29'15		inferior conj	1574 May 09 j 21:14	28° B 12'53	2°09'21
	1571 Nov 18 j 23:25	0° H		minimum elong	1574 May 10 j 01:51	28° B 05'37	2°08'01
desc. node	1571 Dec 02 j 07:15	16° H 46'24		min. Earth dist.	1574 May 09 j 22:01	28° B 11'40	0.28834 AU
	1571 Dec 12 j 19:27	0° Z		morning rise	1574 May 16 j 06:42	24° B 21'58	
				desc. node	1574 May 19 j 02:10	22° B 56'00	
superior conj	1571 Dec 14 j 11:36	2° Z 06'19	-0°28'36	direct	1574 May 31 j 10:28	19° B 57'29	
minimum elong	1571 Dec 14 j 04:13	1° Z 43'04	0°28'16	greatest brilliancy	1574 Jun 10 j 14:04	21° B 48'58	-4.7m
max. Earth dist.	1571 Dec 15 j 17:39	3° Z 40'53	1.71072 AU		1574 Jun 25 j 18:58	0° II	
	1572 Jan 05 j 16:00	0° \approx		morning max el	1574 Jul 19 j 04:15	19° II 40'56	45°45'52
evening rise	1572 Jan 24 j 22:27	24° \approx 10'13			1574 Jul 29 j 14:42	0° G	
	1572 Jan 29 j 14:16	0° H			1574 Aug 26 j 09:11	0° Ω	
	1572 Feb 22 j 16:01	0° Y		asc. node	1574 Sep 09 j 05:51	15° Ω 54'11	
	1572 Mar 17 j 23:20	0° B			1574 Sep 21 j 05:17	0° M	
asc. node	1572 Mar 24 j 10:47	7° B 56'04			1574 Oct 16 j 01:24	0° Ω	
	1572 Apr 11 j 14:24	0° II			1574 Nov 09 j 08:19	0° M	
	1572 May 06 j 16:03	0° G			1574 Dec 03 j 08:47	0° H	
	1572 Jun 01 j 09:25	0° Ω			1574 Dec 27 j 06:52	0° Z	
	1572 Jun 28 j 07:02	0° M		desc. node	1574 Dec 29 j 19:12	3° Z 09'13	
desc. node	1572 Jul 13 j 23:58	16° M 25'31		morning set	1575 Jan 19 j 08:10	28° Z 55'08	
evening max el	1572 Jul 22 j 12:17	24° M 48'24	45°48'24		1575 Jan 20 j 04:52	0° \approx	
	1572 Jul 28 j 01:32	0° Ω			1575 Feb 13 j 04:08	0° H	
greatest brilliancy	1572 Aug 31 j 08:50	23° Ω 18'18	-4.8m				
retrograde	1572 Sep 09 j 12:12	24° Ω 49'22		superior conj	1575 Mar 01 j 01:52	19° H 50'26	-1°25'14
evening set	1572 Sep 26 j 11:00	19° Ω 23'33		minimum elong	1575 Mar 01 j 04:44	19° H 59'24	1°25'13
inferior conj	1572 Sep 30 j 08:55	17° Ω 02'39	-7°25'10	max. Earth dist.	1575 Mar 05 j 06:20	25° H 03'08	1.72179 AU
minimum elong	1572 Sep 30 j 18:39	16° Ω 47'46	7°23'31		1575 Mar 09 j 05:48	0° Y	
min. Earth dist.	1572 Oct 01 j 06:43	16° Ω 29'21	0.27453 AU		1575 Apr 02 j 10:48	0° B	
morning rise	1572 Oct 05 j 01:55	14° Ω 13'48		evening rise	1575 Apr 09 j 04:14	8° B 18'06	
direct	1572 Oct 21 j 08:17	9° Ω 07'03		asc. node	1575 Apr 21 j 22:38	24° B 00'55	
greatest brilliancy	1572 Nov 01 j 10:17	11° Ω 26'04	-4.9m		1575 Apr 26 j 19:39	0° II	
asc. node	1572 Nov 04 j 03:15	12° Ω 37'14			1575 May 21 j 08:36	0° G	
	1572 Nov 28 j 02:51	0° M			1575 Jun 15 j 02:17	0° Ω	
morning max el	1572 Dec 11 j 03:35	12° M 37'42	46°56'00		1575 Jul 10 j 02:25	0° M	
	1572 Dec 27 j 10:35	0° H			1575 Aug 04 j 12:41	0° Ω	
	1573 Jan 22 j 16:48	0° Z		desc. node	1575 Aug 11 j 11:49	8° Ω 05'41	
	1573 Feb 16 j 23:34	0° \approx			1575 Aug 30 j 16:15	0° M	
desc. node	1573 Feb 23 j 16:52	8° \approx 04'07			1575 Sep 27 j 07:54	0° H	
	1573 Mar 13 j 20:56	0° H		evening max el	1575 Oct 04 j 18:53	7° H 33'30	46°57'29
	1573 Apr 07 j 14:23	0° Y			1575 Oct 30 j 10:02	0° Z	
	1573 May 02 j 06:10	0° B		greatest brilliancy	1575 Nov 14 j 07:05	8° Z 14'28	-4.9m
	1573 May 26 j 20:41	0° II		retrograde	1575 Nov 24 j 03:37	10° Z 04'55	
morning set	1573 Jun 13 j 08:45	21° II 24'12		asc. node	1575 Dec 02 j 15:17	8° Z 36'36	
asc. node	1573 Jun 16 j 20:20	25° II 40'08		evening set	1575 Dec 08 j 13:07	5° Z 58'29	
	1573 Jun 20 j 09:08	0° G		min. Earth dist.	1575 Dec 14 j 05:48	2° Z 38'55	0.26452 AU

inferior conj	1575 Dec 14 j 16:56	2° ☿ 21'53	3°04'54	max. Earth dist.	1578 May 11 j 20:54	0° ♊ 22'57	1.73482 AU
minimum elong	1575 Dec 14 j 10:15	2° ☿ 32'06	3°02'51	asc. node	1578 May 19 j 10:33	9° ♊ 41'01	
	1575 Dec 18 j 15:21	30° ☿ 17'			1578 Jun 04 j 23:30	0° ♋	
morning rise	1575 Dec 20 j 07:33	29° ☿ 03'27		evening rise	1578 Jun 16 j 11:26	14° ♋ 07'10	
direct	1576 Jan 04 j 00:45	24° ☿ 45'21			1578 Jun 29 j 09:56	0° ♌	
greatest brilliancy	1576 Jan 13 j 16:44	26° ☿ 31'23	-4.9m		1578 Jul 23 j 20:54	0° ♍	
	1576 Jan 21 j 05:50	0° ☿			1578 Aug 17 j 09:31	0° ♎	
morning max el	1576 Feb 23 j 03:10	27° ☿ 04'29	46°39'20	desc. node	1578 Sep 07 j 23:45	26° ♎ 16'53	
	1576 Feb 26 j 01:07	0° ♏			1578 Sep 11 j 01:20	0° ♏	
desc. node	1576 Mar 23 j 04:41	27° ♏ 58'12			1578 Oct 05 j 22:16	0° ♐	
	1576 Mar 25 j 00:21	0° ♑			1578 Oct 31 j 04:13	0° ☿	
	1576 Apr 20 j 07:02	0° ♑			1578 Nov 26 j 06:33	0° ♒	
	1576 May 15 j 21:03	0° ♒		evening max el	1578 Dec 16 j 02:27	21° ♒ 18'35	47°15'10
	1576 Jun 10 j 01:43	0° ♓			1578 Dec 24 j 21:28	0° ♓	
	1576 Jul 04 j 23:00	0° ♋		asc. node	1578 Dec 30 j 03:09	4° ♓ 51'17	
asc. node	1576 Jul 14 j 08:10	11° ♋ 24'11		greatest brilliancy	1579 Jan 25 j 14:38	22° ♓ 57'12	-4.9m
	1576 Jul 29 j 13:06	0° ♌		retrograde	1579 Feb 05 j 01:38	25° ♓ 02'32	
morning set	1576 Aug 20 j 10:04	26° ♌ 58'36		evening set	1579 Feb 23 j 01:00	18° ♓ 45'23	
	1576 Aug 22 j 20:35	0° ♍		min. Earth dist.	1579 Feb 25 j 12:10	17° ♓ 13'22	0.27927 AU
	1576 Sep 15 j 23:00	0° ♎		inferior conj	1579 Feb 26 j 01:27	16° ♓ 52'30	8°44'27
max. Earth dist.	1576 Sep 23 j 17:44	9° ♎ 43'29	1.71856 AU	minimum elong	1579 Feb 26 j 03:15	16° ♓ 49'41	8°44'25
				morning rise	1579 Mar 01 j 05:42	14° ♓ 54'18	
superior conj	1576 Sep 26 j 17:44	13° ♎ 28'39	1°13'30	direct	1579 Mar 18 j 22:23	8° ♓ 52'53	
minimum elong	1576 Sep 27 j 02:30	13° ♎ 56'05	1°13'17	greatest brilliancy	1579 Mar 28 j 02:45	10° ♓ 27'17	-4.8m
	1576 Oct 09 j 22:26	0° ♏		desc. node	1579 Apr 20 j 16:23	24° ♓ 44'19	
desc. node	1576 Nov 02 j 21:33	0° ♐ 02'48			1579 Apr 26 j 21:25	0° ♑	
	1576 Nov 02 j 20:39	0° ♐		morning max el	1579 May 07 j 03:10	9° ♑ 27'27	45°56'39
evening rise	1576 Nov 05 j 09:40	3° ♐ 11'15			1579 May 27 j 07:23	0° ♒	
	1576 Nov 26 j 18:51	0° ☿			1579 Jun 23 j 13:04	0° ♓	
	1576 Dec 20 j 18:05	0° ♒			1579 Jul 19 j 12:34	0° ♋	
	1577 Jan 13 j 20:16	0° ♓		asc. node	1579 Aug 11 j 19:56	27° ♋ 42'58	
	1577 Feb 07 j 04:51	0° ♑			1579 Aug 13 j 17:27	0° ♌	
asc. node	1577 Feb 24 j 00:51	20° ♑ 24'36			1579 Sep 07 j 08:39	0° ♍	
	1577 Mar 04 j 01:12	0° ♒			1579 Oct 01 j 14:04	0° ♎	
	1577 Mar 29 j 18:04	0° ♓			1579 Oct 25 j 13:34	0° ♏	
	1577 Apr 26 j 02:49	0° ♋		morning set	1579 Oct 31 j 23:41	8° ♏ 03'46	
evening max el	1577 May 09 j 11:38	13° ♋ 25'20	45°23'50		1579 Nov 18 j 10:19	0° ♐	
	1577 May 28 j 11:21	0° ♌		desc. node	1579 Dec 01 j 09:25	16° ♐ 19'01	
desc. node	1577 Jun 15 j 14:15	10° ♌ 48'27					
greatest brilliancy	1577 Jun 16 j 12:13	11° ♌ 09'09	-4.7m	superior conj	1579 Dec 11 j 21:29	29° ♐ 32'10	-0°24'48
retrograde	1577 Jun 27 j 02:16	13° ♌ 10'12		minimum elong	1579 Dec 11 j 15:01	29° ♐ 11'48	0°24'29
evening set	1577 Jul 13 j 08:27	8° ♌ 09'42			1579 Dec 12 j 06:20	0° ☿	
inferior conj	1577 Jul 18 j 13:28	5° ♌ 01'23	-6°45'35	max. Earth dist.	1579 Dec 13 j 02:24	1° ☿ 03'07	1.71062 AU
minimum elong	1577 Jul 18 j 03:41	5° ♌ 16'35	6°43'49		1580 Jan 05 j 02:52	0° ♒	
min. Earth dist.	1577 Jul 18 j 15:42	4° ♌ 57'55	0.28911 AU	evening rise	1580 Jan 22 j 09:13	21° ♒ 39'33	
morning rise	1577 Jul 22 j 22:41	2° ♌ 20'43			1580 Jan 29 j 01:10	0° ♓	
	1577 Jul 27 j 06:33	30° ♓			1580 Feb 22 j 03:00	0° ♑	
direct	1577 Aug 09 j 03:33	26° ♋ 44'41			1580 Mar 17 j 10:29	0° ♒	
greatest brilliancy	1577 Aug 19 j 21:57	28° ♋ 50'06	-4.8m	asc. node	1580 Mar 23 j 12:48	7° ♒ 27'54	
	1577 Aug 22 j 18:03	0° ♌			1580 Apr 11 j 01:56	0° ♓	
morning max el	1577 Sep 27 j 20:27	28° ♌ 00'47	46°19'58		1580 May 06 j 04:16	0° ♋	
	1577 Sep 29 j 20:18	0° ♍			1580 May 31 j 23:02	0° ♌	
asc. node	1577 Oct 06 j 17:33	7° ♍ 04'25			1580 Jun 27 j 23:43	0° ♍	
	1577 Oct 27 j 14:29	0° ♎		desc. node	1580 Jul 13 j 02:00	15° ♍ 39'43	
	1577 Nov 22 j 04:15	0° ♏		evening max el	1580 Jul 20 j 02:35	22° ♍ 32'37	45°46'21
	1577 Dec 16 j 21:04	0° ♐			1580 Jul 28 j 04:08	0° ♎	
	1578 Jan 10 j 05:15	0° ☿		greatest brilliancy	1580 Aug 28 j 21:35	20° ♎ 58'26	-4.8m
desc. node	1578 Jan 26 j 06:59	19° ☿ 54'15		retrograde	1580 Sep 07 j 00:52	22° ♎ 29'11	
	1578 Feb 03 j 10:24	0° ♒		evening set	1580 Sep 24 j 03:25	16° ♎ 59'01	
	1578 Feb 27 j 15:09	0° ♓		inferior conj	1580 Sep 27 j 22:30	14° ♎ 41'53	-7°36'38
	1578 Mar 23 j 20:54	0° ♑		minimum elong	1580 Sep 28 j 07:48	14° ♎ 27'36	7°35'11
morning set	1578 Apr 03 j 14:32	13° ♑ 15'28		min. Earth dist.	1580 Sep 28 j 20:15	14° ♎ 08'33	0.27520 AU
	1578 Apr 17 j 04:20	0° ♒		morning rise	1580 Oct 02 j 11:51	11° ♎ 57'48	
				direct	1580 Oct 18 j 22:42	6° ♎ 45'24	
superior conj	1578 May 11 j 01:19	29° ♒ 22'46	-0°19'46	greatest brilliancy	1580 Oct 30 j 00:37	9° ♎ 03'50	-4.9m
minimum elong	1578 May 11 j 05:26	29° ♒ 35'24	0°19'35	asc. node	1580 Nov 03 j 05:26	10° ♎ 59'25	
	1578 May 11 j 13:26	0° ♓			1580 Nov 28 j 07:08	0° ♏	

morning max el	1580 Dec 08 j 17:01	10° \mathbb{M} 12'44	46°55'34		1583 Jul 19 14:29	0° \mathbb{M}	
	1580 Dec 27 j 04:17	0° \mathbb{A}			1583 Aug 14 01:59	0° \mathbb{A}	
	1581 Jan 22 j 07:15	0° \mathbb{Z}		desc. node	1583 Aug 20 13:48	7° \mathbb{A} 31'35	
	1581 Feb 16 j 12:27	0° \approx			1583 Sep 09 07:51	0° \mathbb{M}	
desc. node	1581 Feb 22 j 18:51	7° \approx 32'08			1583 Oct 07 04:57	0° \mathbb{A}	
	1581 Mar 13 j 08:54	0° \mathbb{H}		evening max el	1583 Oct 12 07:10	5° \mathbb{A} 07'12	46°55'24
	1581 Apr 07 j 01:46	0° \mathbb{Y}			1583 Nov 10 13:40	0° \mathbb{Z}	
	1581 May 01 j 17:10	0° \mathbb{B}		greatest brilliancy	1583 Nov 21 20:30	5° \mathbb{Z} 46'20	-4.9m
	1581 May 26 j 07:25	0° \mathbb{I}		retrograde	1583 Dec 01 15:37	7° \mathbb{Z} 35'55	
morning set	1581 Jun 11 j 02:59	19° \mathbb{I} 20'35		asc. node	1583 Dec 11 17:18	5° \mathbb{Z} 31'59	
asc. node	1581 Jun 15 j 22:23	25° \mathbb{I} 13'59		evening set	1583 Dec 16 00:20	3° \mathbb{Z} 30'41	
	1581 Jun 19 j 19:42	0° \mathbb{E}		inferior conj	1583 Dec 22 05:07	29° \mathbb{A} 53'25	2°41'37
	1581 Jul 14 j 05:11	0° \mathbb{O}		minimum elong	1583 Dec 21 23:11	0° \mathbb{Z} 02'28	2°39'45
max. Earth dist.	1581 Jul 14 j 15:14	0° \mathbb{O} 30'57	1.73289 AU	min. Earth dist.	1583 Dec 21 19:33	0° \mathbb{Z} 08'02	0.26437 AU
					1583 Dec 22 00:48	30° \mathbb{R} \mathbb{A}	
superior conj	1581 Jul 17 j 11:39	4° \mathbb{O} 01'55	1°05'40	morning rise	1583 Dec 27 22:08	26° \mathbb{A} 32'00	
minimum elong	1581 Jul 17 j 03:03	3° \mathbb{O} 35'22	1°05'23	direct	1584 Jan 11 12:33	22° \mathbb{A} 16'38	
	1581 Aug 07 j 11:48	0° \mathbb{M}		greatest brilliancy	1584 Jan 21 07:02	24° \mathbb{A} 05'01	-4.9m
evening rise	1581 Aug 22 j 14:35	18° \mathbb{M} 43'57			1584 Feb 01 19:46	0° \mathbb{Z}	
	1581 Aug 31 j 16:32	0° \mathbb{A}		morning max el	1584 Mar 01 16:27	24° \mathbb{Z} 40'29	46°40'51
	1581 Sep 24 j 20:41	0° \mathbb{M}			1584 Mar 06 22:47	0° \approx	
desc. node	1581 Oct 05 j 11:42	13° \mathbb{M} 11'01		desc. node	1584 Apr 01 06:44	27° \approx 19'02	
	1581 Oct 19 j 01:19	0° \mathbb{A}			1584 Apr 03 16:10	0° \mathbb{H}	
	1581 Nov 12 j 07:24	0° \mathbb{Z}			1584 Apr 29 20:28	0° \mathbb{Y}	
	1581 Dec 06 j 17:02	0° \approx			1584 May 25 09:13	0° \mathbb{B}	
	1581 Dec 31 j 11:24	0° \mathbb{H}			1584 Jun 19 13:08	0° \mathbb{I}	
	1582 Jan 26 j 01:56	0° \mathbb{Y}			1584 Jul 14 09:59	0° \mathbb{E}	
asc. node	1582 Jan 26 j 14:57	0° \mathbb{Y} 37'07		asc. node	1584 Jul 23 10:07	10° \mathbb{E} 56'58	
	1582 Feb 22 j 17:33	0° \mathbb{B}			1584 Aug 07 23:53	0° \mathbb{O}	
evening max el	1582 Feb 25 j 14:37	2° \mathbb{B} 53'16	46°14'22	morning set	1584 Aug 28 02:51	24° \mathbb{O} 48'46	
	1582 Mar 31 j 11:08	0° \mathbb{I}			1584 Sep 01 07:18	0° \mathbb{M}	
greatest brilliancy	1582 Apr 05 j 07:39	2° \mathbb{I} 10'31	-4.8m		1584 Sep 25 09:44	0° \mathbb{A}	
retrograde	1582 Apr 16 j 03:53	4° \mathbb{I} 19'40		max. Earth dist.	1584 Oct 01 09:14	7° \mathbb{A} 28'13	1.71906 AU
	1582 May 01 j 01:25	30° \mathbb{R} \mathbb{B}					
evening set	1582 May 01 j 15:35	29° \mathbb{B} 40'22		superior conj	1584 Oct 04 08:29	11° \mathbb{A} 10'58	1°15'11
inferior conj	1582 May 07 j 13:45	26° \mathbb{B} 04'24	2°28'32	minimum elong	1584 Oct 04 16:47	11° \mathbb{A} 36'54	1°15'00
minimum elong	1582 May 07 j 18:59	25° \mathbb{B} 56'09	2°27'03		1584 Oct 19 09:15	0° \mathbb{M}	
min. Earth dist.	1582 May 07 j 14:56	26° \mathbb{B} 02'31	0.28819 AU	desc. node	1584 Nov 11 23:41	29° \mathbb{M} 35'11	
morning rise	1582 May 13 j 22:37	22° \mathbb{B} 13'53			1584 Nov 12 07:36	0° \mathbb{A}	
desc. node	1582 May 18 j 04:18	20° \mathbb{B} 09'29		evening rise	1584 Nov 12 21:09	0° \mathbb{A} 42'30	
direct	1582 May 29 j 02:18	17° \mathbb{B} 49'12			1584 Dec 06 05:57	0° \mathbb{Z}	
greatest brilliancy	1582 Jun 08 j 06:11	19° \mathbb{B} 40'32	-4.7m		1584 Dec 30 05:22	0° \approx	
	1582 Jun 26 j 10:43	0° \mathbb{I}			1585 Jan 23 07:48	0° \mathbb{H}	
morning max el	1582 Jul 16 j 19:09	17° \mathbb{I} 29'16	45°45'21		1585 Feb 16 16:48	0° \mathbb{Y}	
	1582 Jul 29 j 09:08	0° \mathbb{E}		asc. node	1585 Mar 05 02:54	19° \mathbb{Y} 53'26	
	1582 Aug 25 j 23:26	0° \mathbb{O}			1585 Mar 13 13:55	0° \mathbb{B}	
asc. node	1582 Sep 08 j 07:53	15° \mathbb{O} 21'31			1585 Apr 08 08:22	0° \mathbb{I}	
	1582 Sep 20 j 17:54	0° \mathbb{M}			1585 May 05 21:06	0° \mathbb{E}	
	1582 Oct 25 13:13	0° \mathbb{A}		evening max el	1585 May 17 03:49	11° \mathbb{E} 16'02	45°24'37
	1582 Nov 18 19:45	0° \mathbb{M}			1585 Jun 08 01:06	0° \mathbb{O}	
	1582 Dec 12 19:59	0° \mathbb{A}		greatest brilliancy	1585 Jun 24 02:15	8° \mathbb{O} 58'15	-4.7m
	1583 Jan 05 17:55	0° \mathbb{Z}		desc. node	1585 Jun 24 16:12	9° \mathbb{O} 10'41	
desc. node	1583 Jan 07 21:07	2° \mathbb{Z} 40'38		retrograde	1585 Jul 04 18:45	11° \mathbb{O} 01'12	
morning set	1583 Jan 26 17:58	26° \mathbb{Z} 21'05		evening set	1585 Jul 20 21:34	6° \mathbb{O} 04'23	
	1583 Jan 29 15:48	0° \approx		inferior conj	1585 Jul 26 05:31	2° \mathbb{O} 51'42	-6°32'47
	1583 Feb 22 14:58	0° \mathbb{H}		minimum elong	1585 Jul 25 19:38	3° \mathbb{O} 07'03	6°30'53
				min. Earth dist.	1585 Jul 26 06:45	2° \mathbb{O} 49'47	0.28928 AU
superior conj	1583 Mar 08 14:41	17° \mathbb{H} 27'27	-1°25'39	morning rise	1585 Jul 30 17:33	0° \mathbb{O} 07'06	
minimum elong	1583 Mar 08 16:38	17° \mathbb{H} 33'31	1°25'38		1585 Jul 30 22:25	30° \mathbb{R} \mathbb{E}	
max. Earth dist.	1583 Mar 12 18:42	22° \mathbb{H} 38'52	1.72116 AU	direct	1585 Aug 16 20:20	24° \mathbb{E} 34'50	
	1583 Mar 18 16:31	0° \mathbb{Y}		greatest brilliancy	1585 Aug 27 13:18	26° \mathbb{E} 39'22	-4.8m
	1583 Apr 11 21:27	0° \mathbb{B}			1585 Sep 03 17:27	0° \mathbb{O}	
evening rise	1583 Apr 16 19:28	6° \mathbb{B} 04'11		morning max el	1585 Oct 05 12:38	25° \mathbb{O} 48'19	46°18'19
asc. node	1583 May 01 00:47	23° \mathbb{B} 34'44			1585 Oct 09 17:01	0° \mathbb{M}	
	1583 May 06 06:21	0° \mathbb{I}		asc. node	1585 Oct 15 19:44	6° \mathbb{M} 20'23	
	1583 May 30 19:31	0° \mathbb{E}			1585 Nov 06 05:52	0° \mathbb{A}	
	1583 Jun 24 13:37	0° \mathbb{O}			1585 Dec 01 17:41	0° \mathbb{M}	

	1585 Dec 26 09:33	0°♂			1588 Aug 07 08:46	0°♂	
	1586 Jan 19 17:11	0°♂		greatest brilliancy	1588 Sep 05 10:53	18°♂38'50	-4.8m
desc. node	1586 Feb 04 09:01	19°♂24'28		retrograde	1588 Sep 14 13:25	20°♂09'04	
	1586 Feb 12 21:56	0°♂		evening set	1588 Oct 01 19:50	14°♂34'36	
	1586 Mar 09 02:23	0°♂		inferior conj	1588 Oct 05 12:15	12°♂21'13	-7°47'13
	1586 Apr 02 07:55	0°♂		minimum elong	1588 Oct 05 21:05	12°♂07'38	7°45'56
morning set	1586 Apr 11 05:46	11°♂00'34		min. Earth dist.	1588 Oct 06 10:10	11°♂47'34	0.27586 AU
	1586 Apr 26 15:12	0°♂		morning rise	1588 Oct 09 21:58	9°♂41'57	
				direct	1588 Oct 26 12:43	4°♂23'41	
superior conj	1586 May 18 18:26	27°♂14'42	-0°22'57	greatest brilliancy	1588 Nov 06 15:30	6°♂42'10	-4.9m
minimum elong	1586 May 18 23:11	27°♂29'18	0°22'43	asc. node	1588 Nov 12 07:26	9°♂24'33	
max. Earth dist.	1586 May 19 18:56	28°♂30'03	1.73457 AU		1588 Dec 08 10:00	0°♂	
	1586 May 21 00:12	0°♂		morning max el	1588 Dec 16 05:48	7°♂45'18	46°54'56
asc. node	1586 May 28 12:36	9°♂14'20			1589 Jan 05 21:55	0°♂	
	1586 Jun 14 10:15	0°♂			1589 Jan 31 21:56	0°♂	
evening rise	1586 Jun 24 06:21	12°♂04'48			1589 Feb 26 01:41	0°♂	
	1586 Jul 08 20:47	0°♂			1589 Mar 03 20:58	6°♂59'25	
	1586 Aug 02 08:00	0°♂		desc. node	1589 Mar 22 21:16	0°♂	
	1586 Aug 26 21:02	0°♂			1589 Apr 16 13:33	0°♂	
desc. node	1586 Sep 17 01:53	25°♂46'45			1589 May 11 04:32	0°♂	
	1586 Sep 20 13:29	0°♂			1589 Jun 04 18:30	0°♂	
	1586 Oct 15 11:23	0°♂		morning set	1589 Jun 18 20:57	17°♂15'01	
	1586 Nov 09 18:51	0°♂		asc. node	1589 Jun 25 00:20	24°♂46'23	
	1586 Dec 06 00:10	0°♂			1589 Jun 29 06:39	0°♂	
evening max el	1586 Dec 23 18:14	18°♂59'28	47°16'10	max. Earth dist.	1589 Jul 22 09:38	28°♂26'08	1.73323 AU
	1587 Jan 04 00:29	0°♂			1589 Jul 23 16:06	0°♂	
asc. node	1587 Jan 08 05:09	3°♂48'05					
greatest brilliancy	1587 Feb 02 05:15	20°♂36'11	-4.9m	superior conj	1589 Jul 25 05:58	1°♂56'45	1°03'38
retrograde	1587 Feb 12 16:59	22°♂41'49		minimum elong	1589 Jul 24 21:16	1°♂29'54	1°03'20
evening set	1587 Mar 02 15:39	16°♂25'02			1589 Aug 16 22:48	0°♂	
min. Earth dist.	1587 Mar 05 01:23	14°♂55'13	0.27874 AU	evening rise	1589 Aug 30 07:37	16°♂33'39	
inferior conj	1587 Mar 05 15:56	14°♂32'21	8°46'29		1589 Sep 10 03:41	0°♂	
minimum elong	1587 Mar 05 16:54	14°♂30'49	8°46'27		1589 Oct 04 08:03	0°♂	
morning rise	1587 Mar 08 18:23	12°♂36'56		desc. node	1589 Oct 14 13:50	12°♂42'00	
direct	1587 Mar 26 12:56	6°♂33'53			1589 Oct 28 12:59	0°♂	
greatest brilliancy	1587 Apr 04 15:09	8°♂06'54	-4.8m		1589 Nov 21 19:29	0°♂	
desc. node	1587 Apr 29 18:33	23°♂40'30			1589 Dec 16 05:43	0°♂	
	1587 May 07 01:09	0°♂			1590 Jan 10 01:06	0°♂	
morning max el	1587 May 14 18:05	7°♂12'32	45°57'43	asc. node	1590 Feb 04 17:01	29°♂58'08	
	1587 Jun 06 00:36	0°♂			1590 Feb 04 17:40	0°♂	
	1587 Jul 03 03:05	0°♂			1590 Mar 04 14:54	0°♂	
	1587 Jul 29 01:05	0°♂		evening max el	1590 Mar 05 04:30	0°♂33'52	46°16'48
asc. node	1587 Aug 20 22:03	27°♂13'54		greatest brilliancy	1590 Apr 13 00:59	0°♂00'22	-4.8m
	1587 Aug 23 05:11	0°♂			1590 Apr 13 00:35	0°♂	
	1587 Sep 16 19:58	0°♂		retrograde	1590 Apr 23 20:02	2°♂09'04	
	1587 Oct 11 01:12	0°♂			1590 May 04 04:59	30°♂	
	1587 Nov 04 00:40	0°♂		evening set	1590 May 09 09:47	27°♂26'53	
morning set	1587 Nov 08 12:21	5°♂38'02		inferior conj	1590 May 15 06:04	23°♂53'47	2°47'40
	1587 Nov 27 21:26	0°♂		minimum elong	1590 May 15 11:55	23°♂44'34	2°46'01
desc. node	1587 Dec 10 11:24	15°♂50'14		min. Earth dist.	1590 May 15 07:41	23°♂51'15	0.28804 AU
				morning rise	1590 May 21 14:14	20°♂04'04	
superior conj	1587 Dec 19 07:11	26°♂56'36	-0°20'55	desc. node	1590 May 27 06:15	17°♂25'02	
minimum elong	1587 Dec 19 01:41	26°♂39'17	0°20'39	direct	1590 Jun 05 17:39	15°♂38'39	
max. Earth dist.	1587 Dec 20 07:11	28°♂12'05	1.71057 AU	greatest brilliancy	1590 Jun 15 22:20	17°♂30'24	-4.7m
	1587 Dec 21 17:29	0°♂			1590 Jul 06 23:13	0°♂	
	1588 Jan 14 14:01	0°♂		morning max el	1590 Jul 24 10:22	15°♂16'56	45°44'57
evening rise	1588 Jan 29 19:21	19°♂05'56			1590 Aug 08 03:38	0°♂	
	1588 Feb 07 12:21	0°♂			1590 Sep 04 14:00	0°♂	
	1588 Mar 02 14:16	0°♂		asc. node	1590 Sep 17 09:59	14°♂47'55	
	1588 Mar 26 21:57	0°♂			1590 Sep 30 06:52	0°♂	
asc. node	1588 Apr 01 14:57	6°♂59'15			1590 Oct 25 01:24	0°♂	
	1588 Apr 20 13:47	0°♂			1590 Nov 18 07:30	0°♂	
	1588 May 15 16:52	0°♂			1590 Dec 12 07:29	0°♂	
	1588 Jun 10 13:07	0°♂			1591 Jan 05 05:16	0°♂	
	1588 Jul 07 17:06	0°♂		desc. node	1591 Jan 06 23:12	2°♂11'36	
desc. node	1588 Jul 22 04:03	14°♂52'22		morning set	1591 Jan 24 03:58	23°♂46'38	
evening max el	1588 Jul 27 16:06	20°♂14'09	45°44'26		1591 Jan 29 03:02	0°♂	

	1591 Feb 22 02:07	0° H		minimum elong	1593 Jul 23 11:40	0° Ω 56'42	6°17'19
				min. Earth dist.	1593 Jul 23 21:57	0° Ω 40'42	0.28943 AU
superior conj	1591 Mar 06 03:20	15° H 02'41	-1°25'54		1593 Jul 25 00:08	30° R S	
minimum elong	1591 Mar 06 04:19	15° H 05'45	1°25'55	morning rise	1593 Jul 28 12:24	27° S 52'35	
max. Earth dist.	1591 Mar 10 04:54	20° H 06'38	1.72063 AU	direct	1593 Aug 14 13:12	22° S 24'27	
	1591 Mar 18 03:38	0° Y		greatest brilliancy	1593 Aug 25 04:11	24° S 27'23	-4.8m
	1591 Apr 11 08:32	0° B			1593 Sep 05 01:37	0° Ω	
evening rise	1591 Apr 14 10:18	3° B 47'40		morning max el	1593 Oct 03 04:18	23° Ω 34'05	46°16'37
asc. node	1591 Apr 30 02:45	23° B 06'33			1593 Oct 09 13:19	0° M	
	1591 May 05 17:30	0° II		asc. node	1593 Oct 14 21:46	5° M 35'59	
	1591 May 30 06:54	0° S			1593 Nov 05 21:14	0° S	
	1591 Jun 24 01:26	0° Ω			1593 Dec 01 07:13	0° M	
	1591 Jul 19 03:04	0° M			1593 Dec 25 22:10	0° A	
	1591 Aug 13 15:51	0° S			1594 Jan 19 05:14	0° S	
desc. node	1591 Aug 19 15:56	6° S 56'26		desc. node	1594 Feb 03 11:09	18° S 54'36	
	1591 Sep 09 00:10	0° M			1594 Feb 12 09:35	0° \approx	
	1591 Oct 07 03:16	0° A			1594 Mar 08 13:42	0° H	
evening max el	1591 Oct 09 20:16	2° A 41'57	46°53'23		1594 Apr 01 18:58	0° Y	
	1591 Nov 12 05:43	0° S		morning set	1594 Apr 08 21:21	8° Y 46'28	
greatest brilliancy	1591 Nov 19 09:29	3° S 16'59	-4.9m		1594 Apr 26 02:05	0° B	
retrograde	1591 Nov 29 04:19	5° S 06'20					
asc. node	1591 Dec 10 19:16	2° S 21'51		superior conj	1594 May 16 11:46	25° B 07'08	-0°26'04
evening set	1591 Dec 13 11:52	1° S 01'56		minimum elong	1594 May 16 17:07	25° B 23'36	0°25'48
	1591 Dec 15 08:48	30° R A		max. Earth dist.	1594 May 17 18:04	26° B 40'18	1.73433 AU
inferior conj	1591 Dec 19 17:21	27° A 24'14	2°17'56		1594 May 20 11:01	0° II	
minimum elong	1591 Dec 19 12:13	27° A 32'03	2°16'19	asc. node	1594 May 27 14:35	8° II 47'15	
min. Earth dist.	1591 Dec 19 09:01	27° A 36'55	0.26421 AU		1594 Jun 13 21:06	0° S	
morning rise	1591 Dec 25 12:38	24° A 00'17		evening rise	1594 Jun 22 01:20	10° S 02'23	
direct	1592 Jan 09 00:54	19° A 47'24			1594 Jul 08 07:45	0° Ω	
greatest brilliancy	1592 Jan 18 20:44	21° A 37'31	-4.9m		1594 Aug 01 19:14	0° M	
	1592 Feb 02 22:42	0° S			1594 Aug 26 08:42	0° S	
morning max el	1592 Feb 28 06:32	22° S 17'59	46°42'14	desc. node	1594 Sep 16 03:56	25° S 15'59	
	1592 Mar 06 19:52	0° \approx			1594 Sep 20 01:49	0° M	
desc. node	1592 Mar 31 08:53	26° \approx 39'54			1594 Oct 15 00:40	0° A	
	1592 Apr 03 07:59	0° H			1594 Nov 09 09:43	0° S	
	1592 Apr 29 10:06	0° Y			1594 Dec 05 18:15	0° \approx	
	1592 May 24 21:41	0° B		evening max el	1594 Dec 21 09:41	16° \approx 39'11	47°17'00
	1592 Jun 19 00:54	0° II			1595 Jan 04 05:17	0° H	
	1592 Jul 13 21:19	0° S		asc. node	1595 Jan 07 07:19	2° H 43'30	
asc. node	1592 Jul 22 12:16	10° S 29'19		greatest brilliancy	1595 Jan 30 20:37	18° H 15'49	-4.9m
	1592 Aug 07 10:59	0° Ω		retrograde	1595 Feb 10 08:03	20° H 20'53	
morning set	1592 Aug 25 19:32	22° Ω 37'47		evening set	1595 Feb 28 05:58	14° H 05'31	
	1592 Aug 31 18:19	0° M		min. Earth dist.	1595 Mar 02 14:58	12° H 36'44	0.27815 AU
	1592 Sep 24 20:47	0° S		inferior conj	1595 Mar 03 06:29	12° H 12'20	8°47'34
max. Earth dist.	1592 Sep 28 23:42	5° S 08'53	1.71956 AU	minimum elong	1595 Mar 03 06:36	12° H 12'08	8°47'35
				morning rise	1595 Mar 06 07:30	10° H 19'02	
superior conj	1592 Oct 01 23:16	8° S 52'29	1°16'46	direct	1595 Mar 24 03:13	4° H 15'12	
minimum elong	1592 Oct 02 07:01	9° S 16'42	1°16'35	greatest brilliancy	1595 Apr 02 03:53	5° H 46'57	-4.8m
	1592 Oct 18 20:23	0° M		desc. node	1595 Apr 28 20:27	22° H 38'09	
evening rise	1592 Nov 10 08:44	28° M 12'59			1595 May 07 03:10	0° Y	
desc. node	1592 Nov 11 01:38	29° M 05'59		morning max el	1595 May 12 08:08	4° Y 55'39	45°58'55
	1592 Nov 11 18:52	0° A			1595 Jun 05 17:20	0° B	
	1592 Dec 05 17:22	0° S			1595 Jul 02 16:51	0° II	
	1592 Dec 29 16:56	0° \approx			1595 Jul 28 13:29	0° S	
	1593 Jan 22 19:33	0° H		asc. node	1595 Aug 20 00:09	26° S 44'55	
	1593 Feb 16 04:56	0° Y			1595 Aug 22 16:51	0° Ω	
asc. node	1593 Mar 04 05:02	19° Y 21'57			1595 Sep 16 07:15	0° M	
	1593 Mar 13 02:51	0° B			1595 Oct 10 12:19	0° S	
	1593 Apr 07 23:01	0° II			1595 Nov 03 11:44	0° M	
	1593 May 05 16:08	0° S		morning set	1595 Nov 06 01:05	3° M 12'36	
evening max el	1593 May 14 20:36	9° S 07'24	45°25'14		1595 Nov 27 08:30	0° A	
	1593 Jun 08 20:09	0° Ω		desc. node	1595 Dec 09 13:27	15° A 21'53	
greatest brilliancy	1593 Jun 21 16:59	6° Ω 47'19	-4.7m				
desc. node	1593 Jun 23 18:17	7° Ω 28'41		superior conj	1595 Dec 16 16:58	24° A 21'33	-0°17'00
retrograde	1593 Jul 02 11:06	8° Ω 51'14		minimum elong	1595 Dec 16 12:28	24° A 07'22	0°16'47
evening set	1593 Jul 18 10:51	3° Ω 58'20		max. Earth dist.	1595 Dec 17 10:05	25° A 15'23	1.71057 AU
inferior conj	1593 Jul 23 21:35	0° Ω 41'16	-6°19'18		1595 Dec 21 04:33	0° S	

	1596 Jan 14 01:07	0°♊			1598 Sep 04 03:58	0°♋
evening rise	1596 Jan 27 05:30	16°♊32'25		asc. node	1598 Sep 16 12:00	14°♋15'34
	1596 Feb 06 23:30	0°♋			1598 Sep 29 19:21	0°♌
	1596 Mar 02 01:29	0°♌			1598 Oct 24 13:12	0°♍
	1596 Mar 26 09:20	0°♎			1598 Nov 17 18:57	0°♎
asc. node	1596 Mar 31 16:56	6°♎30'23			1598 Dec 11 18:43	0°♏
	1596 Apr 20 01:31	0°♐			1599 Jan 04 16:22	0°♐
	1596 May 15 05:20	0°♑		desc. node	1599 Jan 06 01:23	1°♑43'38
	1596 Jun 10 03:06	0°♋		morning set	1599 Jan 21 13:33	21°♑11'31
	1596 Jul 07 10:38	0°♌			1599 Jan 28 14:02	0°♊
desc. node	1596 Jul 21 06:10	14°♌05'04			1599 Feb 21 13:01	0°♋
evening max el	1596 Jul 25 05:04	17°♌55'04 45°42'25				
	1596 Aug 07 15:12	0°♍		superior conj	1599 Mar 03 15:32	12°♋37'16 -1°26'00
greatest brilliancy	1596 Sep 03 00:10	16°♍19'48 -4.8m		minimum elong	1599 Mar 03 15:32	12°♋37'16 1°26'01
retrograde	1596 Sep 12 02:09	17°♍49'54		max. Earth dist.	1599 Mar 07 14:55	17°♋34'38 1.72008 AU
evening set	1596 Sep 29 12:09	12°♍11'01			1599 Mar 17 14:26	0°♌
inferior conj	1596 Oct 03 02:06	10°♍01'18 -7°56'48			1599 Apr 10 19:19	0°♎
minimum elong	1596 Oct 03 10:25	9°♍48'31 7°55'41		evening rise	1599 Apr 12 00:59	1°♎31'33
min. Earth dist.	1596 Oct 04 00:17	9°♍27'14 0.27656 AU		asc. node	1599 Apr 29 04:49	22°♎39'34
morning rise	1596 Oct 07 08:18	7°♍26'58			1599 May 05 04:22	0°♐
direct	1596 Oct 24 02:38	2°♍02'28			1599 May 29 17:59	0°♑
greatest brilliancy	1596 Nov 04 06:56	4°♍21'48 -4.9m			1599 Jun 23 12:56	0°♋
asc. node	1596 Nov 11 09:25	7°♍53'24			1599 Jul 18 15:16	0°♌
	1596 Dec 08 11:19	0°♎			1599 Aug 13 05:22	0°♍
morning max el	1596 Dec 13 19:07	5°♎19'39 46°54'23		desc. node	1599 Aug 18 18:00	6°♍22'17
	1597 Jan 05 15:01	0°♏			1599 Sep 08 16:15	0°♎
	1597 Jan 31 12:15	0°♐			1599 Oct 07 01:56	0°♏
	1597 Feb 25 14:37	0°♊		evening max el	1599 Oct 07 10:10	0°♏20'19 46°51'10
desc. node	1597 Mar 02 23:02	6°♊27'15			1599 Nov 14 20:09	0°♑
	1597 Mar 22 09:22	0°♋		greatest brilliancy	1599 Nov 16 22:00	0°♑48'09 -4.9m
	1597 Apr 16 01:06	0°♌		retrograde	1599 Nov 26 17:08	2°♑37'19
	1597 May 10 15:40	0°♎			1599 Dec 08 01:16	30°♒♏
	1597 Jun 04 05:19	0°♐		asc. node	1599 Dec 09 21:28	29°♏07'24
morning set	1597 Jun 16 15:17	15°♐11'23		evening set	1599 Dec 10 23:36	28°♏33'37
asc. node	1597 Jun 24 02:31	24°♐20'24		inferior conj	1599 Dec 17 05:26	24°♏55'29 1°53'51
	1597 Jun 28 17:18	0°♑		minimum elong	1599 Dec 17 01:09	25°♏02'00 1°52'29
max. Earth dist.	1597 Jul 20 06:49	26°♑30'48 1.73356 AU		min. Earth dist.	1599 Dec 16 22:14	25°♏06'27 0.26415 AU
				morning rise	1599 Dec 23 02:51	21°♏29'10
superior conj	1597 Jul 23 00:40	29°♑53'43 1°01'31		direct	1600 Jan 06 13:40	17°♏18'41
minimum elong	1597 Jul 22 15:54	29°♑26'43 1°01'14		greatest brilliancy	1600 Jan 16 10:03	19°♏09'51 -4.9m
	1597 Jul 23 02:42	0°♋			1600 Feb 03 18:16	0°♑
	1597 Aug 16 09:30	0°♌		morning max el	1600 Feb 25 20:49	19°♑56'22 46°43'30
evening rise	1597 Aug 28 01:06	14°♌25'43			1600 Mar 06 16:04	0°♊
	1597 Sep 09 14:34	0°♍		desc. node	1600 Mar 30 10:51	26°♊01'17
	1597 Oct 03 19:13	0°♎			1600 Apr 02 23:19	0°♋
desc. node	1597 Oct 13 15:48	12°♎13'03			1600 Apr 28 23:20	0°♌
	1597 Oct 28 00:29	0°♏			1600 May 24 09:46	0°♎
	1597 Nov 21 07:25	0°♐			1600 Jun 18 12:18	0°♐
	1597 Dec 15 18:17	0°♊			1600 Jul 13 08:19	0°♑
	1598 Jan 09 14:42	0°♋		asc. node	1600 Jul 21 14:20	10°♑02'28
asc. node	1598 Feb 03 19:07	29°♋19'40			1600 Aug 06 21:45	0°♋
	1598 Feb 04 09:24	0°♌		morning set	1600 Aug 23 12:40	20°♋29'21
evening max el	1598 Mar 02 18:41	28°♌15'57 46°19'20			1600 Aug 31 04:59	0°♌
	1598 Mar 04 12:44	0°♎			1600 Sep 24 07:26	0°♍
greatest brilliancy	1598 Apr 10 17:50	27°♎50'26 -4.8m		max. Earth dist.	1600 Sep 26 13:20	2°♍48'14 1.72003 AU
retrograde	1598 Apr 21 12:37	29°♎59'24				
evening set	1598 May 07 04:05	25°♎14'00		superior conj	1600 Sep 29 14:40	6°♍37'17 1°18'10
inferior conj	1598 May 12 22:24	21°♎43'57 3°06'33		minimum elong	1600 Sep 29 21:49	6°♍59'38 1°18'01
minimum elong	1598 May 13 04:50	21°♎33'50 3°04'46			1600 Oct 18 07:07	0°♎
min. Earth dist.	1598 May 13 00:12	21°♎41'07 0.28787 AU		evening rise	1600 Nov 07 20:45	25°♎46'10
morning rise	1598 May 19 05:43	17°♎55'33		desc. node	1600 Nov 10 03:45	28°♎38'31
desc. node	1598 May 26 08:21	14°♎45'50			1600 Nov 11 05:46	0°♏
direct	1598 Jun 03 09:09	13°♎28'53			1600 Dec 05 04:27	0°♑
greatest brilliancy	1598 Jun 13 14:17	15°♎21'06 -4.7m			1600 Dec 29 04:13	0°♊
	1598 Jul 07 07:58	0°♐			1601 Jan 22 07:07	0°♋
morning max el	1598 Jul 22 02:32	13°♐08'08 45°44'46			1601 Feb 15 16:56	0°♌
	1598 Aug 07 21:13	0°♑		asc. node	1601 Mar 03 07:01	18°♌50'26

	1601 Mar 12 15:43	0°♄	
	1601 Apr 07 13:39	0°♅	
	1601 May 05 11:29	0°♁	
evening max el	1601 May 12 13:02	6°♁58'26	45°26'00
	1601 Jun 09 21:44	0°♁	
greatest brilliancy	1601 Jun 19 08:21	4°♁37'47	-4.7m
desc. node	1601 Jun 22 20:25	5°♁43'43	
retrograde	1601 Jun 30 02:58	6°♁41'50	
evening set	1601 Jul 16 00:14	1°♁52'55	
	1601 Jul 19 04:41	30°♁♂	
inferior conj	1601 Jul 21 13:38	28°♁31'41	-6°05'20
minimum elong	1601 Jul 21 03:44	28°♁47'08	6°03'17
min. Earth dist.	1601 Jul 21 13:30	28°♁31'53	0.28951 AU
morning rise	1601 Jul 26 07:08	25°♁38'48	
direct	1601 Aug 12 05:42	20°♁14'57	
greatest brilliancy	1601 Aug 22 19:13	22°♁16'16	-4.8m
	1601 Sep 06 00:14	0°♁	
morning max el	1601 Sep 30 19:11	21°♁19'00	46°15'09
	1601 Oct 09 08:37	0°♁	
asc. node	1601 Oct 13 23:45	4°♁53'07	
	1601 Nov 05 12:00	0°♁	
	1601 Nov 30 20:15	0°♁	
	1601 Dec 25 10:21	0°♁	
	1602 Jan 18 16:55	0°♁	