

conjunction	601 Sep 19 j 22:25	29°♄05'27	0°44'00	morning rise	606 Mar 07 j 23:17	4°♃41'20	
minimum elong	601 Sep 19 j 23:39	29°♄07'31	0°44'00		606 Apr 09 j 21:49	0°♃	
	601 Sep 21 j 07:02	0°♄			606 May 20 j 11:47	0°♃	
	601 Nov 04 j 03:08	0°♄			606 Jul 02 j 11:29	0°♄	
morning rise	601 Nov 05 j 19:01	1°♄09'48		asc. node	606 Jul 13 j 02:24	7°♄06'10	
desc. node	601 Dec 08 j 22:31	24°♄46'11			606 Aug 17 j 21:03	0°♄	
	601 Dec 16 j 03:29	0°♄			606 Oct 09 j 17:50	0°♄	
	602 Jan 25 j 15:58	0°♄		retrograde	606 Dec 22 j 01:18	22°♄56'06	
	602 Mar 06 j 05:28	0°♄		opposition	607 Jan 30 j 20:26	13°♄25'52	4°34'23
	602 Apr 14 j 14:46	0°♄		greatest brilliancy	607 Jan 31 j 01:52	13°♄20'27	-1.2m
	602 May 24 j 23:30	0°♄		min. Earth dist.	607 Feb 01 j 05:12	12°♄53'16	0.67510 AU
	602 Jul 07 j 09:04	0°♄		direct	607 Mar 12 j 22:24	3°♄29'30	
	602 Aug 29 j 19:04	0°♄			607 Jun 01 j 23:47	0°♄	
asc. node	602 Oct 08 j 04:28	10°♄50'02			607 Jul 23 j 10:44	0°♄	
retrograde	602 Oct 12 j 16:09	10°♄58'26		desc. node	607 Jul 31 j 18:55	5°♄20'28	
min. Earth dist.	602 Nov 14 j 15:49	3°♄38'23	0.57474 AU		607 Sep 06 j 07:56	0°♄	
opposition	602 Nov 20 j 20:04	1°♄12'50	1°55'07		607 Oct 17 j 15:18	0°♄	
greatest brilliancy	602 Nov 20 j 03:57	1°♄28'41	-1.7m		607 Nov 25 j 18:48	0°♄	
	602 Nov 23 j 23:04	30°♄			608 Jan 02 j 21:37	0°♄	
direct	602 Dec 27 j 09:31	22°♄51'00		evening set	608 Jan 03 j 12:19	0°♄29'03	
	603 Feb 02 j 11:48	0°♄			608 Feb 10 j 00:25	0°♄	
	603 Apr 08 j 06:33	0°♄					
	603 May 30 j 22:10	0°♄		conjunction	608 Mar 11 j 00:12	23°♄09'03	0°-46'-45
	603 Jul 18 j 18:47	0°♄		minimum elong	608 Mar 11 j 03:14	23°♄14'49	0°46'44
	603 Sep 02 j 20:02	0°♄			608 Mar 20 j 00:55	0°♄	
evening set	603 Sep 13 j 09:21	7°♄07'36			608 Apr 29 j 16:44	0°♄	
max. Earth dist.	603 Sep 29 j 06:54	18°♄02'33	2.51851 AU	max. Earth dist.	608 Apr 29 j 15:05	29°♄57'01	2.44829 AU
	603 Oct 16 j 08:09	0°♄		morning rise	608 May 14 j 13:41	10°♄36'30	
desc. node	603 Oct 26 j 21:21	7°♄31'29		asc. node	608 May 30 j 01:45	21°♄27'28	
					608 Jun 11 j 11:58	0°♄	
conjunction	603 Nov 02 j 08:59	12°♄11'51	0°-4'-5		608 Jul 26 j 17:50	0°♄	
minimum elong	603 Nov 02 j 08:45	12°♄11'26	0°04'05		608 Sep 12 j 21:59	0°♄	
behind sun begin	603 Nov 01 j 11:19	11°♄32'42			608 Nov 05 j 05:49	0°♄	
behind sun end	603 Nov 03 j 06:11	12°♄50'13		retrograde	609 Jan 27 j 01:37	27°♄05'45	
	603 Nov 26 j 15:26	0°♄		opposition	609 Mar 06 j 09:55	18°♄23'33	3°42'28
morning rise	603 Dec 27 j 03:31	23°♄00'19		greatest brilliancy	609 Mar 07 j 07:59	18°♄02'14	-1.4m
	604 Jan 05 j 06:30	0°♄		min. Earth dist.	609 Mar 11 j 14:17	16°♄23'30	0.62766 AU
	604 Feb 12 j 22:01	0°♄		direct	609 Apr 16 j 14:51	8°♄25'25	
	604 Mar 22 j 09:37	0°♄		desc. node	609 Jun 17 j 17:42	26°♄39'21	
	604 Apr 30 j 15:13	0°♄			609 Jun 24 j 07:26	0°♄	
	604 Jun 10 j 16:19	0°♄			609 Aug 13 j 09:03	0°♄	
asc. node	604 Jul 25 j 01:09	0°♄			609 Sep 25 j 04:50	0°♄	
	604 Aug 25 j 02:45	18°♄51'53			609 Nov 03 j 22:20	0°♄	
	604 Sep 14 j 19:56	0°♄			609 Dec 12 j 09:04	0°♄	
retrograde	604 Nov 17 j 13:40	19°♄14'42			610 Jan 19 j 19:34	0°♄	
min. Earth dist.	604 Dec 25 j 04:17	10°♄19'34	0.65669 AU		610 Feb 28 j 05:21	0°♄	
opposition	604 Dec 27 j 16:33	9°♄19'00	4°02'42	evening set	610 Mar 12 j 08:52	9°♄00'59	
greatest brilliancy	604 Dec 27 j 03:39	9°♄31'59	-1.3m		610 Apr 10 j 07:15	0°♄	
	605 Feb 01 j 08:45	30°♄		asc. node	610 Apr 17 j 00:16	4°♄45'53	
direct	605 Feb 05 j 04:05	29°♄54'31					
	605 Feb 09 j 01:09	0°♄		conjunction	610 May 10 j 03:17	20°♄54'57	0°14'07
	605 May 05 j 11:58	0°♄		minimum elong	610 May 10 j 02:30	20°♄53'36	0°14'06
	605 Jun 27 j 09:01	0°♄		behind sun begin	610 May 09 j 15:53	20°♄35'18	
	605 Aug 13 j 15:31	0°♄		behind sun end	610 May 10 j 13:07	21°♄11'52	
desc. node	605 Sep 12 j 20:06	20°♄29'59			610 May 23 j 09:53	0°♄	
	605 Sep 26 j 08:23	0°♄		max. Earth dist.	610 Jun 08 j 13:36	10°♄53'19	2.57298 AU
evening set	605 Oct 30 j 16:12	24°♄58'44		morning rise	610 Jul 02 j 04:00	26°♄29'32	
	605 Nov 06 j 09:28	0°♄			610 Jul 07 j 13:01	0°♄	
max. Earth dist.	605 Nov 24 j 17:01	13°♄52'55	2.39267 AU		610 Aug 23 j 11:43	0°♄	
	605 Dec 15 j 14:13	0°♄			610 Oct 11 j 06:25	0°♄	
					610 Dec 02 j 03:48	0°♄	
conjunction	605 Dec 29 j 06:37	10°♄41'21	0°-57'-49		611 Feb 04 j 07:28	0°♄	
minimum elong	605 Dec 29 j 04:21	10°♄36'55	0°57'49	retrograde	611 Mar 14 j 01:20	7°♄14'01	
	606 Jan 22 j 19:29	0°♄		opposition	611 Apr 18 j 11:26	29°♄53'25	0°50'45
	606 Mar 01 j 22:58	0°♄			611 Apr 18 j 04:02	30°♄	

greatest brilliancy	611 Apr 18 j 22:01	29°♄43'59	-2.0m	evening set	616 Jul 21 j 06:22	15°♂15'01	
min. Earth dist.	611 Apr 26 j 15:40	26°♄59'05	0.51976 AU		616 Aug 13 j 08:12	0°♍	
desc. node	611 May 05 j 15:58	24°♄07'31		max. Earth dist.	616 Aug 19 j 19:36	4°♍10'43	2.64479 AU
direct	611 May 27 j 10:30	20°♄54'44					
	611 Jul 05 j 23:36	0°♌		conjunction	616 Sep 04 j 23:41	14°♍41'44	0°56'10
	611 Aug 28 j 22:35	0°♌		minimum elong	616 Sep 05 j 00:48	14°♍43'34	0°56'09
	611 Oct 10 j 16:39	0°♌			616 Sep 28 j 03:50	0°♄	
	611 Nov 19 j 16:01	0°♌		morning rise	616 Oct 20 j 10:26	14°♄59'39	
	611 Dec 29 j 05:26	0°♌			616 Nov 11 j 07:13	0°♌	
	612 Feb 07 j 15:08	0°♍			616 Dec 23 j 19:04	0°♌	
asc. node	612 Mar 03 j 23:35	18°♍16'13		desc. node	616 Dec 25 j 14:23	1°♌17'51	
	612 Mar 20 j 14:40	0°♌			617 Feb 02 j 21:48	0°♌	
evening set	612 May 03 j 10:30	29°♄59'14			617 Mar 15 j 02:42	0°♌	
	612 May 03 j 10:58	0°♌			617 Apr 24 j 05:29	0°♌	
	612 Jun 17 j 23:55	0°♌			617 Jun 04 j 17:31	0°♍	
					617 Jul 21 j 06:45	0°♌	
conjunction	612 Jun 23 j 01:03	3°♄16'10	0°55'56	retrograde	617 Sep 26 j 08:25	23°♄23'11	
minimum elong	612 Jun 22 j 23:45	3°♄14'03	0°55'56	asc. node	617 Oct 24 j 20:13	17°♄42'20	
max. Earth dist.	612 Jul 04 j 13:18	10°♄41'44	2.65101 AU	min. Earth dist.	617 Oct 27 j 04:48	16°♄50'35	0.52772 AU
	612 Aug 03 j 17:44	0°♌		opposition	617 Nov 03 j 13:56	14°♄02'15	0°28'36
morning rise	612 Aug 08 j 21:59	3°♌17'32		greatest brilliancy	617 Nov 03 j 08:36	14°♄07'20	-2.0m
	612 Sep 20 j 03:06	0°♍		direct	617 Dec 08 j 14:43	6°♄17'35	
	612 Nov 06 j 21:49	0°♄			618 Feb 21 j 14:27	0°♌	
	612 Dec 25 j 11:51	0°♌			618 Apr 18 j 00:28	0°♄	
	613 Feb 14 j 16:57	0°♌			618 Jun 07 j 17:01	0°♌	
desc. node	613 Mar 22 j 15:53	18°♌28'37			618 Jul 25 j 21:30	0°♍	
	613 Apr 21 j 18:07	0°♌		evening set	618 Aug 28 j 09:42	21°♍45'36	
retrograde	613 May 18 j 19:28	4°♌08'14			618 Sep 09 j 18:36	0°♄	
	613 Jun 14 j 14:18	30°♌		max. Earth dist.	618 Sep 16 j 06:36	4°♄22'33	2.56280 AU
opposition	613 Jun 18 j 16:00	28°♌51'57	-5°-4'-28				
greatest brilliancy	613 Jun 19 j 21:35	28°♌30'56	-2.7m	conjunction	618 Oct 15 j 08:19	24°♄21'41	0°17'07
min. Earth dist.	613 Jun 24 j 00:27	27°♌20'59	0.39540 AU	minimum elong	618 Oct 15 j 09:01	24°♄22'55	0°17'07
direct	613 Jul 21 j 04:14	22°♌54'37			618 Oct 23 j 08:57	0°♌	
	613 Aug 23 j 18:02	0°♌		desc. node	618 Nov 12 j 12:53	14°♌23'38	
	613 Oct 17 j 23:55	0°♌			618 Dec 03 j 21:49	0°♌	
	613 Dec 01 j 18:41	0°♌		morning rise	618 Dec 05 j 01:59	0°♌52'00	
	614 Jan 14 j 07:38	0°♍			619 Jan 12 j 20:03	0°♌	
asc. node	614 Jan 19 j 22:05	3°♍50'37			619 Feb 20 j 18:37	0°♌	
	614 Feb 27 j 11:38	0°♌			619 Mar 31 j 12:30	0°♌	
	614 Apr 13 j 21:00	0°♌			619 May 10 j 00:46	0°♍	
	614 May 30 j 09:27	0°♄			619 Jun 20 j 13:36	0°♌	
evening set	614 Jun 14 j 12:59	9°♄39'51			619 Aug 05 j 09:21	0°♌	
	614 Jul 16 j 12:17	0°♌		asc. node	619 Sep 11 j 20:00	20°♌27'40	
max. Earth dist.	614 Jul 28 j 04:24	7°♌25'27	2.67500 AU		619 Oct 05 j 08:21	0°♄	
				retrograde	619 Nov 04 j 19:15	5°♄25'19	
conjunction	614 Jul 31 j 04:11	9°♌19'41	1°09'27		619 Dec 03 j 01:09	30°♌	
minimum elong	614 Jul 31 j 04:10	9°♌19'40	1°09'26	min. Earth dist.	619 Dec 10 j 17:27	27°♌03'54	0.63158 AU
	614 Sep 01 j 12:38	0°♍		opposition	619 Dec 14 j 17:37	25°♌27'34	3°26'53
morning rise	614 Sep 13 j 17:48	7°♍51'25		greatest brilliancy	619 Dec 14 j 00:13	25°♌45'01	-1.4m
	614 Oct 17 j 20:43	0°♄		direct	620 Jan 22 j 05:15	16°♌23'26	
	614 Dec 02 j 06:49	0°♌			620 Mar 16 j 18:05	0°♄	
	615 Jan 15 j 20:14	0°♌			620 May 15 j 13:40	0°♌	
desc. node	615 Feb 07 j 15:55	15°♌31'59			620 Jul 05 j 07:48	0°♍	
	615 Feb 28 j 20:23	0°♌			620 Aug 20 j 23:37	0°♄	
	615 Apr 14 j 03:33	0°♌		desc. node	620 Sep 29 j 12:03	27°♄07'24	
	615 May 31 j 21:08	0°♌			620 Oct 03 j 13:31	0°♌	
retrograde	615 Aug 04 j 22:08	22°♌41'55		evening set	620 Oct 10 j 07:31	4°♌49'01	
min. Earth dist.	615 Aug 31 j 13:03	18°♌09'08	0.40231 AU	max. Earth dist.	620 Oct 26 j 01:42	16°♌13'47	2.44068 AU
greatest brilliancy	615 Sep 05 j 18:18	16°♌34'06	-2.7m		620 Nov 13 j 16:11	0°♌	
opposition	615 Sep 07 j 04:46	16°♌07'50	-5°-8'-3				
direct	615 Oct 07 j 14:11	10°♌35'42		conjunction	620 Dec 04 j 09:02	15°♌39'29	0°-39'-39
asc. node	615 Dec 07 j 20:25	28°♌58'58		minimum elong	620 Dec 04 j 06:54	15°♌35'24	0°39'38
	615 Dec 09 j 21:37	0°♍			620 Dec 23 j 00:11	0°♌	
	616 Feb 01 j 17:17	0°♌			621 Jan 30 j 08:29	0°♌	
	616 Mar 22 j 06:14	0°♌		morning rise	621 Feb 05 j 21:20	5°♌08'29	
	616 May 09 j 22:28	0°♄			621 Mar 09 j 14:00	0°♌	
	616 Jun 27 j 02:25	0°♌			621 Apr 17 j 14:05	0°♍	

	621 May 28 j 05:52	0°♄		direct	626 May 10 j 11:24	3°♁01'18	
	621 Jul 10 j 12:30	0°♁		desc. node	626 May 22 j 09:06	3°♁55'27	
asc. node	621 Jul 29 j 18:01	12°♁34'13			626 Jul 25 j 11:41	0°♁	
	621 Aug 27 j 00:20	0°♁			626 Sep 09 j 16:57	0°♁	
	621 Oct 24 j 17:46	0°♁			626 Oct 20 j 15:31	0°♁	
retrograde	621 Dec 08 j 15:05	10°♁12'35			626 Nov 28 j 18:05	0°♁	
opposition	622 Jan 17 j 16:07	0°♁29'38	4°31'43		627 Jan 06 j 16:51	0°♁	
greatest brilliancy	622 Jan 17 j 13:47	0°♁31'58	-1.2m		627 Feb 15 j 14:14	0°♁	
min. Earth dist.	622 Jan 17 j 12:11	0°♁33'34	0.67571 AU	asc. node	627 Mar 21 j 14:50	24°♁40'39	
	622 Jan 18 j 21:44	30°♁			627 Mar 29 j 02:59	0°♁	
direct	622 Feb 27 j 06:42	20°♁42'42		evening set	627 Apr 15 j 13:50	12°♁12'15	
	622 Apr 11 j 23:24	0°♁			627 May 11 j 14:31	0°♁	
	622 Jun 12 j 15:28	0°♁					
	622 Jul 31 j 19:30	0°♁		conjunction	627 Jun 07 j 19:17	18°♁08'19	0°43'08
desc. node	622 Aug 17 j 10:59	10°♁58'37		minimum elong	627 Jun 07 j 17:47	18°♁05'51	0°43'08
	622 Sep 14 j 02:04	0°♁			627 Jun 25 j 21:55	0°♁	
	622 Oct 25 j 05:35	0°♁		max. Earth dist.	627 Jun 25 j 16:31	29°♁51'12	2.62681 AU
	622 Dec 03 j 08:45	0°♁		morning rise	627 Jul 26 j 12:19	19°♁43'37	
evening set	622 Dec 07 j 03:44	2°♁57'40			627 Aug 11 j 15:33	0°♁	
	623 Jan 10 j 11:38	0°♁			627 Sep 28 j 09:36	0°♁	
					627 Nov 16 j 05:58	0°♁	
conjunction	623 Feb 11 j 14:01	25°♁18'51	-1°-2'-25		628 Jan 06 j 13:40	0°♁	
minimum elong	623 Feb 11 j 15:50	25°♁22'24	1°02'24		628 Mar 08 j 05:08	0°♁	
	623 Feb 17 j 13:38	0°♁		desc. node	628 Apr 08 j 08:08	8°♁14'56	
	623 Mar 28 j 12:16	0°♁		retrograde	628 Apr 19 j 06:39	8°♁57'24	
max. Earth dist.	623 Mar 31 j 20:03	2°♁30'42	2.39574 AU	opposition	628 May 22 j 00:04	2°♁51'42	-2°-28'-48
morning rise	623 Apr 21 j 13:40	17°♁58'04		greatest brilliancy	628 May 23 j 01:07	2°♁31'55	-2.4m
	623 May 08 j 01:46	0°♁		min. Earth dist.	628 May 30 j 00:28	0°♁20'27	0.43906 AU
asc. node	623 Jun 16 j 17:12	27°♁51'44			628 May 31 j 03:25	30°♁	
	623 Jun 19 j 20:22	0°♁		direct	628 Jun 26 j 14:11	25°♁30'22	
	623 Aug 04 j 08:02	0°♁			628 Jul 22 j 21:35	0°♁	
	623 Sep 22 j 13:41	0°♁			628 Sep 18 j 19:40	0°♁	
	623 Nov 19 j 20:00	0°♁			628 Nov 01 j 11:02	0°♁	
retrograde	624 Jan 13 j 01:24	13°♁38'30			628 Dec 12 j 23:02	0°♁	
opposition	624 Feb 21 j 02:49	4°♁34'30	4°13'29		629 Jan 23 j 17:24	0°♁	
greatest brilliancy	624 Feb 21 j 19:35	4°♁18'04	-1.3m	asc. node	629 Feb 05 j 13:42	9°♁04'11	
min. Earth dist.	624 Feb 24 j 19:45	3°♁07'21	0.65395 AU		629 Mar 07 j 17:50	0°♁	
	624 Mar 04 j 04:12	30°♁			629 Apr 21 j 08:40	0°♁	
direct	624 Apr 02 j 11:25	24°♁32'36		evening set	629 May 30 j 00:10	25°♁13'57	
	624 May 04 j 07:05	0°♁			629 Jun 06 j 09:33	0°♁	
desc. node	624 Jul 04 j 09:37	28°♁41'53					
	624 Jul 06 j 15:12	0°♁		conjunction	629 Jul 16 j 19:00	25°♁51'06	1°07'29
	624 Aug 22 j 15:56	0°♁		minimum elong	629 Jul 16 j 18:26	25°♁50'12	1°07'28
	624 Oct 03 j 15:41	0°♁		max. Earth dist.	629 Jul 19 j 06:55	27°♁26'32	2.67215 AU
	624 Nov 12 j 01:23	0°♁			629 Jul 23 j 07:16	0°♁	
	624 Dec 20 j 07:29	0°♁		morning rise	629 Aug 30 j 21:04	24°♁34'21	
evening set	625 Jan 27 j 13:34	0°♁			629 Sep 08 j 09:11	0°♁	
	625 Feb 15 j 01:24	14°♁16'52			629 Oct 25 j 03:15	0°♁	
	625 Mar 07 j 18:24	0°♁			629 Dec 10 j 10:31	0°♁	
	625 Apr 17 j 14:52	0°♁		desc. node	630 Jan 25 j 13:18	0°♁	
conjunction	625 Apr 19 j 00:40	1°♁00'32	0°-9'-11		630 Feb 24 j 07:22	19°♁12'01	
minimum elong	625 Apr 19 j 01:18	1°♁01'39	0°09'11		630 Mar 13 j 07:25	0°♁	
behind sun begin	625 Apr 18 j 04:33	0°♁24'32		retrograde	630 May 02 j 17:59	0°♁	
behind sun end	625 Apr 19 j 22:02	1°♁38'43		min. Earth dist.	630 Jul 07 j 21:11	21°♁57'32	
asc. node	625 May 03 j 16:58	11°♁25'18		opposition	630 Aug 05 j 01:43	17°♁21'19	0.37626 AU
max. Earth dist.	625 May 26 j 20:32	27°♁29'02	2.52859 AU	greatest brilliancy	630 Aug 07 j 15:25	16°♁39'39	-6°-47'-13
	625 May 30 j 12:56	0°♁		direct	630 Aug 07 j 00:36	16°♁49'40	-2.9m
morning rise	625 Jun 14 j 22:48	10°♁25'08			630 Sep 06 j 05:31	11°♁43'19	
	625 Jul 14 j 14:50	0°♁		asc. node	630 Nov 04 j 18:15	0°♁	
	625 Aug 30 j 20:29	0°♁			630 Dec 24 j 13:38	28°♁36'45	
	625 Oct 19 j 17:44	0°♁			630 Dec 26 j 19:43	0°♁	
	625 Dec 14 j 15:26	0°♁			631 Feb 12 j 12:23	0°♁	
retrograde	626 Feb 22 j 11:09	20°♁32'57			631 Mar 31 j 19:13	0°♁	
opposition	626 Mar 31 j 05:41	12°♁34'51	2°16'38		631 May 18 j 09:23	0°♁	
greatest brilliancy	626 Apr 01 j 03:33	12°♁14'30	-1.7m	evening set	631 Jul 05 j 00:58	0°♁	
min. Earth dist.	626 Apr 07 j 11:19	9°♁53'38	0.56812 AU	max. Earth dist.	631 Jul 07 j 19:20	1°♁44'55	
					631 Aug 11 j 09:08	23°♁44'26	2.66294 AU

	631 Aug 21 j 03:07	0°♍		asc. node	636 Aug 15 j 10:52	17°♄12'32	
					636 Sep 06 j 15:01	0°♄	
conjunction	631 Aug 22 j 13:14	0°♍54'55	1°04'25	retrograde	636 Nov 25 j 06:29	27°♄17'28	
minimum elong	631 Aug 22 j 14:01	0°♍56'11	1°04'24	min. Earth dist.	637 Jan 02 j 17:28	18°♄05'52	0.66624 AU
morning rise	631 Oct 06 j 05:57	0°♄06'23		opposition	637 Jan 04 j 10:06	17°♄25'03	4°17'06
	631 Oct 06 j 02:06	0°♄		greatest brilliancy	637 Jan 04 j 00:31	17°♄34'40	-1.3m
	631 Nov 19 j 15:00	0°♌		direct	637 Feb 13 j 08:45	7°♄51'32	
	632 Jan 01 j 17:39	0°♌			637 Apr 27 j 19:46	0°♌	
desc. node	632 Jan 12 j 06:31	7°♌28'11			637 Jun 21 j 19:17	0°♌	
	632 Feb 12 j 15:26	0°♌			637 Aug 08 j 15:54	0°♌	
	632 Mar 24 j 19:10	0°♌		desc. node	637 Sep 03 j 03:40	17°♌08'41	
	632 May 05 j 04:35	0°♌			637 Sep 21 j 13:37	0°♌	
	632 Jun 18 j 05:46	0°♌			637 Nov 01 j 15:36	0°♌	
	632 Aug 18 j 01:48	0°♌		evening set	637 Nov 12 j 09:28	8°♌06'43	
retrograde	632 Sep 07 j 23:39	2°♌58'16			637 Dec 10 j 19:45	0°♌	
	632 Sep 28 j 03:38	30°♌♍		max. Earth dist.	637 Dec 28 j 12:26	13°♌51'17	2.37380 AU
min. Earth dist.	632 Oct 06 j 15:47	27°♌17'33	0.47646 AU				
opposition	632 Oct 14 j 18:30	24°♌23'17	-1°-25'-58	conjunction	638 Jan 13 j 18:42	26°♌40'12	-1°-3'-42
greatest brilliancy	632 Oct 14 j 03:32	24°♌36'45	-2.3m	minimum elong	638 Jan 13 j 17:29	26°♌37'47	1°03'43
asc. node	632 Nov 10 j 12:40	17°♌42'32			638 Jan 17 j 23:54	0°♌	
direct	632 Nov 17 j 02:31	17°♌25'01			638 Feb 25 j 02:18	0°♌	
	633 Jan 06 j 03:19	0°♌		morning rise	638 Mar 24 j 21:45	21°♌32'20	
	633 Mar 06 j 02:54	0°♌			638 Apr 05 j 00:22	0°♌	
	633 Apr 26 j 17:38	0°♌			638 May 15 j 13:11	0°♌	
	633 Jun 15 j 03:40	0°♌			638 Jun 27 j 09:22	0°♌	
	633 Aug 01 j 20:51	0°♌		asc. node	638 Jul 03 j 09:00	4°♌02'23	
evening set	633 Aug 13 j 05:18	7°♌18'51			638 Aug 12 j 07:45	0°♌	
max. Earth dist.	633 Sep 04 j 21:37	22°♌09'32	2.60079 AU		638 Oct 02 j 08:34	0°♌	
	633 Sep 16 j 16:13	0°♌			638 Dec 19 j 01:07	0°♌	
				retrograde	638 Dec 29 j 21:54	0°♌41'57	
conjunction	633 Sep 28 j 20:40	8°♌12'43	0°35'10		639 Jan 09 j 07:25	30°♌♍	
minimum elong	633 Sep 28 j 21:49	8°♌14'40	0°35'10	opposition	639 Feb 07 j 11:43	21°♌20'01	4°30'14
	633 Oct 30 j 10:42	0°♌		greatest brilliancy	639 Feb 07 j 21:21	21°♌10'29	-1.2m
morning rise	633 Nov 15 j 19:33	11°♌34'57		min. Earth dist.	639 Feb 09 j 16:15	20°♌27'59	0.67050 AU
desc. node	633 Nov 29 j 05:07	21°♌12'27		direct	639 Mar 20 j 17:35	11°♌20'25	
	633 Dec 11 j 07:07	0°♌			639 May 24 j 16:42	0°♌	
	634 Jan 20 j 14:28	0°♌			639 Jul 17 j 15:04	0°♌	
	634 Feb 28 j 22:06	0°♌		desc. node	639 Jul 22 j 02:36	2°♌47'38	
	634 Apr 09 j 00:32	0°♌			639 Sep 01 j 03:46	0°♌	
	634 May 18 j 23:18	0°♌			639 Oct 12 j 16:29	0°♌	
	634 Jun 30 j 09:33	0°♌			639 Nov 20 j 22:01	0°♌	
	634 Aug 18 j 09:19	0°♌			639 Dec 29 j 01:35	0°♌	
asc. node	634 Sep 28 j 11:23	17°♌16'37		greatest brilliancy	640 Jan 06 j 18:17	6°♌52'12	1.2m
retrograde	634 Oct 21 j 08:35	20°♌33'48		evening set	640 Jan 19 j 10:13	16°♌51'10	
min. Earth dist.	634 Nov 24 j 10:43	12°♌50'30	0.59733 AU		640 Feb 05 j 04:42	0°♌	
opposition	634 Nov 29 j 21:23	10°♌40'54	2°34'34		640 Mar 15 j 05:41	0°♌	
greatest brilliancy	634 Nov 29 j 03:02	10°♌59'07	-1.6m				
direct	635 Jan 06 j 04:36	2°♌02'16		conjunction	640 Mar 26 j 00:10	8°♌04'49	0°-33'-48
	635 Mar 31 j 22:59	0°♌		minimum elong	640 Mar 26 j 02:36	8°♌09'21	0°33'47
	635 May 25 j 10:03	0°♌			640 Apr 24 j 21:57	0°♌	
	635 Jul 13 j 20:46	0°♌		max. Earth dist.	640 May 11 j 06:26	11°♌39'14	2.47791 AU
	635 Aug 29 j 02:58	0°♌		asc. node	640 May 20 j 07:49	18°♌00'26	
evening set	635 Sep 23 j 02:04	16°♌59'06		morning rise	640 May 26 j 17:36	22°♌27'38	
max. Earth dist.	635 Oct 08 j 03:16	27°♌30'05	2.49149 AU		640 Jun 06 j 16:47	0°♌	
	635 Oct 11 j 16:03	0°♌			640 Jul 21 j 19:37	0°♌	
desc. node	635 Oct 17 j 03:45	3°♌54'18			640 Sep 07 j 12:43	0°♌	
					640 Oct 29 j 04:18	0°♌	
conjunction	635 Nov 13 j 14:22	23°♌50'02	0°-17'-9		641 Jan 03 j 08:15	0°♌	
minimum elong	635 Nov 13 j 13:28	23°♌48'21	0°17'09	retrograde	641 Feb 05 j 04:56	5°♌36'02	
	635 Nov 21 j 21:56	0°♌			641 Mar 07 j 06:09	30°♌♍	
	635 Dec 31 j 10:43	0°♌		opposition	641 Mar 15 j 01:18	27°♌07'51	3°16'36
morning rise	636 Jan 10 j 05:07	7°♌33'14		greatest brilliancy	641 Mar 16 j 00:43	26°♌45'28	-1.5m
	636 Feb 07 j 23:42	0°♌		min. Earth dist.	641 Mar 20 j 23:59	24°♌51'38	0.60899 AU
	636 Mar 17 j 08:45	0°♌		direct	641 Apr 25 j 00:33	17°♌15'30	
	636 Apr 25 j 11:35	0°♌		desc. node	641 Jun 08 j 00:33	27°♌28'23	
	636 Jun 05 j 07:34	0°♌			641 Jun 13 j 22:03	0°♌	
	636 Jul 19 j 02:44	0°♌			641 Aug 06 j 20:10	0°♌	

	641 Sep 19 j 12:54	0°♁			646 Oct 13 j 02:31	0°♁		
	641 Oct 29 j 14:47	0°♁			646 Nov 27 j 04:06	0°♁		
	641 Dec 07 j 06:08	0°♁			647 Jan 10 j 03:08	0°♁		
	642 Jan 14 j 19:50	0°♁		desc. node	647 Jan 28 j 21:56	13°♁01'00		
evening set	642 Feb 23 j 08:29	0°♁			647 Feb 22 j 05:16	0°♁		
	642 Mar 25 j 10:22	22°♁02'52			647 Apr 06 j 00:06	0°♁		
	642 Apr 05 j 12:51	0°♁			647 May 20 j 03:48	0°♁		
asc. node	642 Apr 07 j 07:52	1°♁16'28			647 Jul 12 j 13:59	0°♁		
	642 May 18 j 17:10	0°♁		retrograde	647 Aug 18 j 16:32	8°♁42'20		
				min. Earth dist.	647 Sep 14 j 14:14	3°♁51'05	0.42605 AU	
conjunction	642 May 21 j 01:30	1°♁35'28	0°25'55	greatest brilliancy	647 Sep 21 j 00:15	1°♁46'23	-2.5m	
minimum elong	642 May 21 j 00:16	1°♁33'22	0°25'54	opposition	647 Sep 22 j 08:18	1°♁20'15	-3°-46'-31	
max. Earth dist.	642 Jun 15 j 05:24	18°♁25'36	2.59413 AU		647 Sep 26 j 12:55	30°♁		
	642 Jul 02 j 20:32	0°♁		direct	647 Oct 23 j 18:04	25°♁17'32		
morning rise	642 Jul 11 j 08:12	5°♁30'47			647 Nov 21 j 01:52	0°♁		
	642 Aug 18 j 16:01	0°♁		asc. node	647 Nov 28 j 04:35	2°♁21'37		
	642 Oct 05 j 23:21	0°♁			648 Jan 24 j 17:24	0°♁		
	642 Nov 25 j 10:47	0°♁			648 Mar 16 j 07:15	0°♁		
	643 Jan 21 j 04:38	0°♁			648 May 04 j 19:13	0°♁		
retrograde	643 Mar 26 j 09:05	18°♁07'21			648 Jun 22 j 08:26	0°♁		
desc. node	643 Apr 25 j 23:39	12°♁32'05		evening set	648 Jul 29 j 12:47	23°♁27'32		
opposition	643 Apr 29 j 23:18	11°♁11'12	0°-12'-27		648 Aug 08 j 17:54	0°♁		
greatest brilliancy	643 Apr 15 j 04:44	15°♁40'47	-2.2m	max. Earth dist.	648 Aug 25 j 10:50	10°♁48'25	2.63124 AU	
min. Earth dist.	643 May 08 j 10:37	8°♁17'01	0.49094 AU					
direct	643 Jun 06 j 22:38	2°♁40'51		conjunction	648 Sep 13 j 10:46	23°♁16'31	0°49'35	
	643 Aug 19 j 20:56	0°♁		minimum elong	648 Sep 13 j 11:59	23°♁18'31	0°49'33	
	643 Oct 03 j 18:00	0°♁			648 Sep 23 j 13:32	0°♁		
	643 Nov 13 j 13:23	0°♁		morning rise	648 Oct 29 j 14:09	24°♁28'01		
	643 Dec 23 j 14:33	0°♁			648 Nov 06 j 13:40	0°♁		
	644 Feb 02 j 08:54	0°♁		desc. node	648 Dec 15 j 21:26	27°♁53'07		
asc. node	644 Feb 23 j 06:34	14°♁59'31			648 Dec 18 j 19:38	0°♁		
	644 Mar 15 j 15:15	0°♁			649 Jan 28 j 14:35	0°♁		
	644 Apr 28 j 16:30	0°♁			649 Mar 09 j 10:38	0°♁		
evening set	644 May 13 j 10:31	9°♁47'38			649 Apr 18 j 02:20	0°♁		
	644 Jun 13 j 08:30	0°♁			649 May 28 j 19:57	0°♁		
					649 Jul 12 j 02:58	0°♁		
conjunction	644 Jul 01 j 21:25	11°♁57'14	1°01'23		649 Sep 10 j 10:17	0°♁		
minimum elong	644 Jul 01 j 20:20	11°♁55'30	1°01'23	retrograde	649 Oct 05 j 20:31	4°♁07'58		
max. Earth dist.	644 Jul 10 j 01:09	17°♁11'07	2.66075 AU	asc. node	649 Oct 15 j 03:33	3°♁29'52		
	644 Jul 30 j 02:46	0°♁			649 Oct 29 j 21:51	30°♁		
morning rise	644 Aug 16 j 23:50	11°♁22'21		min. Earth dist.	649 Nov 06 j 22:05	27°♁08'23	0.55462 AU	
	644 Sep 15 j 08:27	0°♁		opposition	649 Nov 13 j 16:08	24°♁31'08	1°21'44	
	644 Nov 01 j 16:45	0°♁		greatest brilliancy	649 Nov 13 j 03:06	24°♁43'48	-1.8m	
	644 Dec 19 j 06:45	0°♁		direct	649 Dec 19 j 13:32	16°♁24'57		
desc. node	645 Feb 06 j 00:12	0°♁			650 Feb 11 j 03:35	0°♁		
	645 Mar 12 j 23:22	20°♁15'55			650 Apr 11 j 18:46	0°♁		
	645 Mar 31 j 07:11	0°♁			650 Jun 02 j 12:57	0°♁		
retrograde	645 Jun 05 j 18:15	20°♁41'55			650 Jul 21 j 03:07	0°♁		
opposition	645 Jul 06 j 01:15	15°♁41'59	-6°-15'-50		650 Sep 05 j 03:43	0°♁		
greatest brilliancy	645 Jul 06 j 19:54	15°♁29'26	-2.8m	evening set	650 Sep 06 j 08:58	0°♁49'02		
min. Earth dist.	645 Jul 08 j 21:12	14°♁56'21	0.38021 AU	max. Earth dist.	650 Sep 23 j 11:40	12°♁25'05	2.53918 AU	
direct	645 Aug 05 j 20:57	10°♁23'18			650 Oct 18 j 18:04	0°♁		
	645 Oct 05 j 09:21	0°♁						
	645 Nov 23 j 15:12	0°♁		conjunction	650 Oct 25 j 08:07	4°♁40'17	0°05'19	
	646 Jan 07 j 19:49	0°♁		minimum elong	650 Oct 25 j 08:20	4°♁40'41	0°05'19	
asc. node	646 Jan 10 j 04:48	1°♁35'18		behind sun begin	650 Oct 24 j 11:57	4°♁04'24		
	646 Feb 21 j 21:10	0°♁		behind sun end	650 Oct 26 j 04:44	5°♁16'59		
	646 Apr 08 j 19:04	0°♁		desc. node	650 Nov 02 j 20:44	10°♁46'29		
	646 May 25 j 15:01	0°♁			650 Nov 29 j 04:45	0°♁		
evening set	646 Jun 23 j 03:17	18°♁05'57		morning rise	650 Dec 17 j 03:22	13°♁24'05		
	646 Jul 11 j 21:38	0°♁			651 Jan 07 j 23:32	0°♁		
max. Earth dist.	646 Aug 02 j 09:25	13°♁39'58	2.67290 AU		651 Feb 15 j 18:17	0°♁		
					651 Mar 26 j 08:03	0°♁		
conjunction	646 Aug 08 j 08:11	17°♁27'34	1°08'44		651 May 04 j 15:20	0°♁		
minimum elong	646 Aug 08 j 08:30	17°♁28'04	1°08'44		651 Jun 14 j 19:16	0°♁		
	646 Aug 27 j 22:06	0°♁			651 Jul 29 j 13:37	0°♁		
morning rise	646 Sep 21 j 19:48	16°♁05'36		asc. node	651 Sep 02 j 01:30	20°♁15'54		

	651 Sep 21 j 13:05	0°☿			656 Dec 15 j 07:46	0°♁		
retrograde	651 Nov 12 j 18:14	13°☿55'09			657 Jan 22 j 15:38	0°♁		
min. Earth dist.	651 Dec 19 j 15:18	5°☿14'50	0.64679 AU	evening set	657 Mar 01 j 16:23	29°♁04'12		
opposition	651 Dec 22 j 20:10	3°☿57'40	3°49'41		657 Mar 02 j 22:07	0°♁		
greatest brilliancy	651 Dec 22 j 04:48	4°☿13'06	-1.4m		657 Apr 12 j 20:21	0°♁		
	652 Jan 02 j 04:46	30°♁II		asc. node	657 Apr 23 j 23:31	7°♁55'03		
direct	652 Jan 30 j 22:09	24°♁II41'46						
	652 Mar 02 j 19:19	0°☿		conjunction	657 May 01 j 07:52	13°♁05'12	0°04'36	
	652 May 09 j 03:16	0°♁		minimum elong	657 May 01 j 07:34	13°♁04'40	0°04'36	
	652 Jun 30 j 02:01	0°♁		behind sun begin	657 Apr 30 j 08:23	12°♁24'04		
	652 Aug 16 j 03:26	0°♁		behind sun end	657 May 02 j 06:45	13°♁45'13		
desc. node	652 Sep 19 j 19:24	23°♁37'40			657 May 25 j 19:27	0°♁		
	652 Sep 28 j 20:30	0°♁		max. Earth dist.	657 Jun 03 j 13:00	5°♁55'15	2.55401 AU	
evening set	652 Oct 21 j 12:39	16°♁20'27		morning rise	657 Jun 24 j 23:28	20°♁II14'11		
	652 Nov 08 j 23:26	0°♁			657 Jul 09 j 20:43	0°☿		
max. Earth dist.	652 Nov 09 j 08:33	0°♁17'05	2.41325 AU		657 Aug 25 j 20:52	0°♁		
					657 Oct 14 j 00:27	0°♁		
conjunction	652 Dec 17 j 23:46	29°♁47'13	0°-50'-53		657 Dec 06 j 04:59	0°♁		
minimum elong	652 Dec 17 j 21:19	29°♁42'29	0°50'53		658 Feb 26 j 17:51	0°♁		
	652 Dec 18 j 06:21	0°☿		retrograde	658 Mar 05 j 05:32	0°♁15'12		
	653 Jan 25 j 13:15	0°♁			658 Mar 11 j 13:41	30°♁♁		
morning rise	653 Feb 22 j 15:58	22°♁07'41		opposition	658 Apr 10 j 07:33	22°♁36'37	1°30'31	
	653 Mar 04 j 17:13	0°♁		greatest brilliancy	658 Apr 11 j 00:21	22°♁21'19	-1.9m	
	653 Apr 12 j 15:35	0°♁		min. Earth dist.	658 Apr 18 j 03:10	19°♁46'20	0.54224 AU	
	653 May 23 j 04:50	0°♁		desc. node	658 May 12 j 15:24	13°♁41'57		
	653 Jul 05 j 05:04	0°♁		direct	658 May 19 j 22:08	13°♁20'07		
asc. node	653 Jul 20 j 01:02	9°♁50'47			658 Jul 15 j 06:16	0°♁		
	653 Aug 20 j 21:42	0°☿			658 Sep 02 j 18:49	0°♁		
	653 Oct 14 j 08:58	0°♁			658 Oct 14 j 15:16	0°☿		
retrograde	653 Dec 16 j 07:32	18°♁00'00			658 Nov 23 j 04:29	0°♁		
opposition	654 Jan 25 j 05:56	8°♁23'28	4°34'39		659 Jan 01 j 10:12	0°♁		
greatest brilliancy	654 Jan 25 j 07:49	8°♁21'35	-1.2m		659 Feb 10 j 12:55	0°♁		
min. Earth dist.	654 Jan 25 j 21:51	8°♁07'34	0.67671 AU	asc. node	659 Mar 11 j 22:29	21°♁16'42		
	654 Feb 19 j 23:08	30°♁☿			659 Mar 24 j 06:12	0°♁		
direct	654 Mar 07 j 03:46	28°☿30'53		evening set	659 Apr 26 j 12:44	22°♁59'59		
	654 Mar 23 j 08:02	0°♁			659 May 06 j 21:04	0°♁		
	654 Jun 05 j 22:52	0°♁						
	654 Jul 26 j 09:58	0°♁		conjunction	659 Jun 17 j 05:26	27°♁22'02	0°51'04	
desc. node	654 Aug 07 j 18:08	8°♁00'02		minimum elong	659 Jun 17 j 04:00	27°♁19'42	0°51'04	
	654 Sep 09 j 02:12	0°♁			659 Jun 21 j 06:29	0°☿		
	654 Oct 20 j 08:58	0°♁		max. Earth dist.	659 Jul 01 j 11:17	6°☿36'48	2.64117 AU	
	654 Nov 28 j 12:58	0°☿		morning rise	659 Aug 03 j 20:07	28°☿00'24		
evening set	654 Dec 22 j 07:25	18°☿39'30			659 Aug 06 j 23:20	0°♁		
	655 Jan 05 j 16:01	0°♁			659 Sep 23 j 11:43	0°♁		
	655 Feb 12 j 18:02	0°♁			659 Nov 10 j 16:17	0°♁		
					659 Dec 30 j 05:49	0°♁		
conjunction	655 Feb 27 j 19:27	11°♁42'47	0°-54'-56		660 Feb 22 j 07:50	0°♁		
minimum elong	655 Feb 27 j 22:22	11°♁48'24	0°54'55	desc. node	660 Mar 29 j 15:00	15°♁52'39		
	655 Mar 23 j 16:49	0°♁		retrograde	660 May 05 j 10:14	23°♁01'29		
max. Earth dist.	655 Apr 19 j 17:46	20°♁09'27	2.42405 AU	opposition	660 Jun 06 j 00:16	17°♁24'43	-3°-57'-42	
	655 May 03 j 06:23	0°♁		greatest brilliancy	660 Jun 07 j 07:39	17°♁01'18	-2.6m	
morning rise	655 May 05 j 14:02	1°♁40'16		min. Earth dist.	660 Jun 12 j 20:23	15°♁22'41	0.41297 AU	
asc. node	655 Jun 07 j 00:57	24°♁32'45		direct	660 Jul 09 j 22:50	10°♁49'46		
	655 Jun 14 j 23:35	0°♁			660 Sep 06 j 16:09	0°☿		
	655 Jul 30 j 05:57	0°☿			660 Oct 24 j 07:50	0°♁		
	655 Sep 16 j 17:29	0°♁			660 Dec 06 j 07:30	0°♁		
	655 Nov 10 j 12:14	0°♁			661 Jan 17 j 21:48	0°♁		
retrograde	656 Jan 21 j 12:34	21°♁44'07		asc. node	661 Jan 26 j 21:23	6°♁15'24		
opposition	656 Feb 29 j 05:01	12°♁51'24	3°57'04		661 Mar 02 j 11:24	0°♁		
greatest brilliancy	656 Mar 01 j 00:52	12°♁32'05	-1.4m		661 Apr 16 j 10:47	0°♁		
min. Earth dist.	656 Mar 04 j 17:16	11°♁06'08	0.64072 AU		661 Jun 01 j 17:06	0°☿		
direct	656 Apr 10 j 12:23	2°♁50'46		evening set	661 Jun 07 j 23:22	4°☿00'53		
desc. node	656 Jun 24 j 17:03	27°♁32'03			661 Jul 18 j 17:09	0°♁		
	656 Jun 29 j 05:41	0°♁						
	656 Aug 16 j 21:02	0°♁		conjunction	661 Jul 25 j 01:23	4°♁02'11	1°09'05	
	656 Sep 28 j 08:41	0°♁		minimum elong	661 Jul 25 j 01:09	4°♁01'48	1°09'06	
	656 Nov 06 j 23:07	0°☿		max. Earth dist.	661 Jul 24 j 13:12	3°♁42'47	2.67482 AU	

	661 Sep 03 j 18:08	0°♎		retrograde	666 Oct 29 j 17:12	29°♊39'30	
morning rise	661 Sep 07 j 19:05	2°♎35'16		min. Earth dist.	666 Dec 03 j 20:03	21°♊35'00	0.61731 AU
	661 Oct 20 j 06:50	0°♌		opposition	666 Dec 08 j 12:25	19°♊42'53	3°07'17
	661 Dec 05 j 01:56	0°♍		greatest brilliancy	666 Dec 07 j 17:50	20°♊01'26	-1.5m
	662 Jan 19 j 06:23	0°♈		direct	667 Jan 15 j 12:16	10°♊49'35	
desc. node	662 Feb 14 j 15:20	17°♈35'48			667 Mar 23 j 11:39	0°♉	
	662 Mar 05 j 06:32	0°♉			667 May 19 j 15:49	0°♈	
	662 Apr 20 j 09:31	0°♊			667 Jul 08 j 20:44	0°♎	
	662 Jun 13 j 09:57	0°♋			667 Aug 24 j 09:42	0°♌	
retrograde	662 Jul 24 j 06:45	10°♋03'38		evening set	667 Oct 03 j 04:52	27°♌18'02	
min. Earth dist.	662 Aug 20 j 04:28	5°♋37'03	0.38730 AU	desc. node	667 Oct 07 j 11:28	0°♍19'26	
greatest brilliancy	662 Aug 24 j 03:12	4°♋29'08	-2.8m		667 Oct 07 j 00:31	0°♍	
opposition	662 Aug 25 j 08:40	4°♋07'56	-6°-2'-34	max. Earth dist.	667 Oct 18 j 01:36	7°♍53'11	2.46366 AU
	662 Sep 11 j 14:17	30°♌			667 Nov 17 j 05:42	0°♈	
direct	662 Sep 24 j 04:30	28°♌56'45					
	662 Oct 06 j 22:56	0°♋		conjunction	667 Nov 25 j 12:44	6°♈12'58	0°-30'-11
asc. node	662 Dec 14 j 19:51	28°♋30'34		minimum elong	667 Nov 25 j 11:05	6°♈09'52	0°30'10
	662 Dec 17 j 11:37	0°♍			667 Dec 26 j 16:20	0°♉	
	663 Feb 05 j 21:29	0°♌		morning rise	668 Jan 25 j 08:03	23°♉06'31	
	663 Mar 26 j 07:01	0°♊			668 Feb 03 j 02:54	0°♊	
	663 May 13 j 10:39	0°♉		greatest brilliancy	668 Mar 02 j 15:15	22°♊22'23	1.2m
	663 Jun 30 j 08:53	0°♈			668 Mar 12 j 09:39	0°♋	
evening set	663 Jul 16 j 02:11	9°♈55'30			668 Apr 20 j 09:55	0°♌	
	663 Aug 16 j 13:20	0°♎			668 May 31 j 02:01	0°♋	
max. Earth dist.	663 Aug 16 j 19:12	0°♎09'26	2.65399 AU		668 Jul 13 j 11:14	0°♊	
				asc. node	668 Aug 05 j 17:30	15°♊01'16	
conjunction	663 Aug 30 j 18:14	9°♎10'45	1°00'05		668 Aug 30 j 12:56	0°♉	
minimum elong	663 Aug 30 j 19:14	9°♎12'23	1°00'04		668 Nov 02 j 06:39	0°♈	
	663 Oct 01 j 11:12	0°♌		retrograde	668 Dec 02 j 22:41	5°♈12'37	
morning rise	663 Oct 14 j 19:00	8°♌54'07			668 Dec 31 j 03:09	30°♌	
	663 Nov 14 j 19:27	0°♍		min. Earth dist.	669 Jan 11 j 04:44	25°♉45'49	0.67273 AU
	663 Dec 27 j 14:26	0°♈		opposition	669 Jan 12 j 01:35	25°♉24'54	4°27'07
desc. node	664 Jan 02 j 13:41	4°♈15'59		greatest brilliancy	669 Jan 11 j 19:50	25°♉30'41	-1.2m
	664 Feb 07 j 01:32	0°♉		direct	669 Feb 21 j 10:03	15°♉43'40	
	664 Mar 18 j 15:50	0°♊			669 Apr 18 j 13:56	0°♈	
	664 Apr 28 j 05:27	0°♋			669 Jun 15 j 21:30	0°♎	
	664 Jun 09 j 12:10	0°♍			669 Aug 03 j 13:02	0°♌	
	664 Jul 28 j 20:09	0°♌		desc. node	669 Aug 24 j 10:23	13°♌53'03	
retrograde	664 Sep 18 j 17:20	15°♌23'24			669 Sep 16 j 17:12	0°♍	
min. Earth dist.	664 Oct 18 j 14:23	9°♌13'34	0.50495 AU		669 Oct 27 j 21:21	0°♈	
opposition	664 Oct 26 j 09:11	6°♌19'50	0°-16'-35	evening set	669 Nov 25 j 23:23	22°♈09'52	
greatest brilliancy	664 Nov 04 j 04:14	3°♌14'09	-2.1m		669 Dec 06 j 01:37	0°♉	
asc. node	664 Oct 31 j 19:09	4°♌22'08			670 Jan 13 j 05:17	0°♊	
	664 Nov 17 j 00:48	30°♌					
direct	664 Nov 29 j 15:34	28°♌54'52		conjunction	670 Jan 29 j 20:02	13°♌07'40	-1°-4'-54
	664 Dec 12 j 21:27	0°♌		minimum elong	670 Jan 29 j 20:31	13°♌08'38	1°04'55
	665 Feb 26 j 12:50	0°♊			670 Feb 20 j 07:04	0°♋	
	665 Apr 21 j 01:41	0°♉		max. Earth dist.	670 Mar 03 j 20:30	9°♋00'51	2.37720 AU
	665 Jun 10 j 04:30	0°♈			670 Mar 31 j 04:26	0°♌	
	665 Jul 28 j 04:35	0°♎		morning rise	670 Apr 09 j 21:42	7°♌19'46	
evening set	665 Aug 21 j 19:32	15°♎55'08			670 May 10 j 16:17	0°♋	
max. Earth dist.	665 Sep 11 j 07:06	29°♎28'20	2.58075 AU		670 Jun 22 j 09:44	0°♊	
	665 Sep 12 j 02:01	0°♌		asc. node	670 Jun 23 j 16:17	0°♊52'00	
					670 Aug 06 j 23:34	0°♉	
conjunction	665 Oct 08 j 02:06	17°♌40'02	0°25'11		670 Sep 25 j 17:58	0°♈	
minimum elong	665 Oct 08 j 03:02	17°♌41'39	0°25'09		670 Nov 26 j 15:15	0°♎	
	665 Oct 25 j 19:11	0°♍		retrograde	671 Jan 06 j 22:33	8°♎32'56	
desc. node	665 Nov 19 j 12:19	17°♍36'56			671 Feb 13 j 13:44	30°♎	
morning rise	665 Nov 26 j 10:26	22°♍37'56		opposition	671 Feb 15 j 06:05	29°♎20'22	4°21'53
	665 Dec 06 j 12:19	0°♈		greatest brilliancy	671 Feb 15 j 19:42	29°♎06'56	-1.3m
	666 Jan 15 j 15:03	0°♉		min. Earth dist.	671 Feb 18 j 06:23	28°♎09'08	0.66257 AU
	666 Feb 23 j 17:48	0°♊		direct	671 Mar 28 j 14:20	19°♎19'01	
	666 Apr 03 j 15:00	0°♋			671 May 14 j 03:32	0°♎	
	666 May 13 j 06:25	0°♍			671 Jul 11 j 08:41	0°♌	
	666 Jun 24 j 01:25	0°♌		desc. node	671 Jul 12 j 08:40	0°♌36'05	
	666 Aug 09 j 18:18	0°♊			671 Aug 26 j 18:06	0°♍	
asc. node	666 Sep 18 j 19:02	20°♊16'33			671 Oct 07 j 14:10	0°♈	

	671 Nov 15 j 22:39	0°☾			676 Sep 10 j 15:10	0°♃		
	671 Dec 24 j 03:51	0°♁			676 Oct 27 j 15:14	0°♁		
	672 Jan 31 j 08:17	0°♃			676 Dec 13 j 10:46	0°♃		
evening set	672 Feb 04 j 04:52	3°♃00'09			677 Jan 29 j 12:59	0°♂		
	672 Mar 10 j 10:26	0°♃		desc. node	677 Mar 03 j 06:33	20°♂21'21		
					677 Mar 19 j 07:42	0°☾		
conjunction	672 Apr 08 j 23:05	21°♃53'38	0°-19'-47		677 May 16 j 10:52	0°♁		
minimum elong	672 Apr 09 j 00:30	21°♃56'13	0°19'47	retrograde	677 Jun 24 j 03:26	8°♁27'27		
	672 Apr 20 j 03:48	0°♂		opposition	677 Jul 24 j 07:26	3°♁26'27	-6°-51'-48	
asc. node	672 May 10 j 16:15	14°♂34'38		greatest brilliancy	677 Jul 24 j 08:19	3°♁25'52	-2.9m	
max. Earth dist.	672 May 20 j 17:14	21°♂34'44	2.50651 AU	min. Earth dist.	677 Jul 24 j 04:39	3°♁28'17	0.37403 AU	
	672 Jun 01 j 22:51	0°♂			677 Aug 07 j 16:34	30°♂		
morning rise	672 Jun 06 j 22:13	3°♂23'21		direct	677 Aug 23 j 03:06	28°♂28'49		
	672 Jul 16 j 23:33	0°♁			677 Sep 07 j 10:23	0°♁		
	672 Sep 02 j 08:03	0°♂			677 Nov 13 j 15:48	0°♃		
	672 Oct 22 j 19:14	0°♃		asc. node	677 Dec 31 j 12:30	29°♃52'48		
	672 Dec 20 j 10:00	0°♁			677 Dec 31 j 16:58	0°♃		
retrograde	673 Feb 14 j 18:42	14°♁25'15			678 Feb 16 j 00:04	0°♂		
opposition	673 Mar 24 j 01:49	6°♁12'41	2°44'27		678 Apr 03 j 13:59	0°♂		
greatest brilliancy	673 Mar 25 j 00:59	5°♁50'49	-1.6m		678 May 20 j 19:04	0°♁		
min. Earth dist.	673 Mar 30 j 18:10	3°♁41'47	0.58745 AU	evening set	678 Jul 01 j 14:23	26°♁25'00		
	673 Apr 10 j 16:43	30°♂			678 Jul 07 j 06:18	0°♂		
direct	673 May 03 j 16:43	26°♂29'12		max. Earth dist.	678 Aug 07 j 16:27	19°♂58'21	2.66848 AU	
	673 May 28 j 00:58	0°♁						
desc. node	673 May 29 j 08:13	0°♁21'46		conjunction	678 Aug 16 j 11:44	25°♂36'19	1°06'41	
	673 Jul 30 j 12:46	0°♃		minimum elong	678 Aug 16 j 12:20	25°♂37'16	1°06'41	
	673 Sep 13 j 12:42	0°♂			678 Aug 23 j 08:00	0°♃		
	673 Oct 24 j 01:40	0°☾		morning rise	678 Sep 30 j 00:25	24°♂28'27		
	673 Dec 01 j 22:51	0°♁			678 Oct 08 j 09:57	0°♁		
	674 Jan 09 j 16:51	0°♃			678 Nov 22 j 04:48	0°♃		
asc. node	674 Feb 18 j 09:08	0°♃		desc. node	679 Jan 04 j 16:33	0°♂		
	674 Mar 28 j 14:14	27°♃47'21			679 Jan 19 j 05:27	10°♂12'48		
	674 Mar 31 j 16:54	0°♂			679 Feb 16 j 01:57	0°☾		
evening set	674 Apr 06 j 17:45	4°♂16'01			679 Mar 29 j 20:32	0°♁		
	674 May 13 j 23:52	0°♂			679 May 11 j 03:30	0°♃		
					679 Jun 26 j 09:44	0°♃		
conjunction	674 May 31 j 09:09	11°♂40'54	0°36'24	retrograde	679 Aug 31 j 04:53	23°♃23'08		
minimum elong	674 May 31 j 07:41	11°♂38'28	0°36'22	min. Earth dist.	679 Sep 27 j 23:46	18°♃05'12	0.45324 AU	
max. Earth dist.	674 Jun 21 j 10:40	25°♂35'55	2.61325 AU	greatest brilliancy	679 Oct 05 j 03:09	15°♃37'40	-2.4m	
	674 Jun 28 j 04:21	0°♁		opposition	679 Oct 06 j 02:38	15°♃17'17	-2°-23'-57	
morning rise	674 Jul 20 j 03:06	14°♁12'00		direct	679 Nov 07 j 14:35	8°♃42'57		
	674 Aug 13 j 21:40	0°♂		asc. node	679 Nov 18 j 11:54	9°♃28'39		
	674 Sep 30 j 20:25	0°♃			680 Jan 15 j 00:08	0°♂		
	674 Nov 19 j 07:02	0°♁			680 Mar 09 j 21:57	0°♂		
	675 Jan 11 j 08:36	0°♃			680 Apr 29 j 12:02	0°♁		
retrograde	675 Apr 08 j 21:01	29°♃53'54			680 Jun 17 j 12:32	0°♂		
desc. node	675 Apr 16 j 07:31	29°♃33'24			680 Aug 04 j 02:50	0°♃		
opposition	675 May 12 j 11:26	23°♃24'50	-1°-26'-8	evening set	680 Aug 06 j 21:43	1°♃47'22		
greatest brilliancy	675 May 13 j 03:50	23°♃11'20	-2.3m	max. Earth dist.	680 Aug 31 j 09:11	17°♃41'19	2.61546 AU	
min. Earth dist.	675 May 20 j 21:50	20°♃38'50	0.46195 AU		680 Sep 18 j 23:19	0°♁		
direct	675 Jun 18 j 06:33	15°♃29'34						
	675 Aug 07 j 14:08	0°♂		conjunction	680 Sep 22 j 03:35	2°♁07'37	0°41'41	
	675 Sep 25 j 21:11	0°☾		minimum elong	680 Sep 22 j 04:48	2°♁09'39	0°41'40	
	675 Nov 06 j 23:22	0°♁			680 Nov 01 j 21:14	0°♃		
	675 Dec 17 j 16:59	0°♃		morning rise	680 Nov 08 j 04:20	4°♃24'40		
	676 Jan 27 j 22:21	0°♃		desc. node	680 Dec 06 j 04:22	24°♃22'08		
asc. node	676 Feb 13 j 12:34	11°♃49'07			680 Dec 13 j 22:47	0°♂		
	676 Mar 10 j 12:55	0°♂			681 Jan 23 j 11:41	0°☾		
	676 Apr 23 j 20:12	0°♂			681 Mar 04 j 00:43	0°♁		
evening set	676 May 23 j 01:26	19°♂13'19			681 Apr 12 j 08:14	0°♃		
	676 Jun 08 j 16:11	0°♁			681 May 22 j 12:52	0°♃		
					681 Jul 04 j 12:20	0°♂		
conjunction	676 Jul 10 j 12:15	20°♁26'32	1°05'25		681 Aug 24 j 23:29	0°♂		
minimum elong	676 Jul 10 j 11:27	20°♁25'15	1°05'26	asc. node	681 Oct 05 j 10:05	13°♂34'13		
max. Earth dist.	676 Jul 15 j 10:51	23°♁35'54	2.66820 AU	retrograde	681 Oct 14 j 20:40	14°♂10'53		
	676 Jul 25 j 11:45	0°♂		min. Earth dist.	681 Nov 17 j 01:40	6°♂46'54	0.57917 AU	
morning rise	676 Aug 24 j 23:27	19°♂24'07		greatest brilliancy	681 Nov 22 j 10:18	4°♂40'24	-1.7m	



opposition	681 Nov 23 j 03:33	4°♄23'25	2°06'50	conjunction	687 Mar 15 j 12:34	27°♃26'51	0°-43'-44
	681 Dec 05 j 05:43	30°♃♂		minimum elong	687 Mar 15 j 15:30	27°♃32'27	0°43'43
direct	681 Dec 29 j 20:21	25°♂58'27			687 Mar 18 j 21:23	0°♃	
	682 Jan 25 j 21:17	0°♄			687 Apr 28 j 11:04	0°♂	
	682 Apr 04 j 23:40	0°♁		max. Earth dist.	687 May 03 j 22:39	3°♂56'33	2.45390 AU
	682 May 28 j 04:29	0°♂		morning rise	687 May 18 j 13:30	14°♂19'36	
	682 Jul 16 j 06:50	0°♎		asc. node	687 May 28 j 06:51	21°♂07'39	
	682 Aug 31 j 11:46	0°♊			687 Jun 10 j 03:40	0°♄	
evening set	682 Sep 15 j 17:58	10°♊18'18			687 Jul 25 j 06:10	0°♁	
max. Earth dist.	682 Oct 01 j 12:52	21°♊10'50	2.51346 AU		687 Sep 11 j 04:30	0°♂	
	682 Oct 14 j 02:32	0°♌			687 Nov 02 j 19:41	0°♎	
desc. node	682 Oct 24 j 03:01	7°♌07'44			688 Jan 28 j 06:28	0°♊	
				retrograde	688 Jan 30 j 07:34	0°♊01'32	
conjunction	682 Nov 05 j 00:00	15°♌41'31	0°-7'-26		688 Feb 01 j 08:15	30°♃♎	
minimum elong	682 Nov 04 j 23:38	15°♌40'51	0°07'27	opposition	688 Mar 08 j 13:48	21°♎21'36	3°35'23
behind sun begin	682 Nov 04 j 03:41	15°♌04'40		greatest brilliancy	688 Mar 09 j 11:52	21°♎00'19	-1.4m
behind sun end	682 Nov 05 j 19:34	16°♌17'04		min. Earth dist.	688 Mar 13 j 21:02	19°♎19'04	0.62447 AU
	682 Nov 24 j 11:39	0°♁		direct	688 Apr 18 j 17:52	11°♎24'40	
morning rise	682 Dec 30 j 06:57	27°♁01'53		desc. node	688 Jun 15 j 00:01	27°♎20'08	
	683 Jan 03 j 03:46	0°♂			688 Jun 20 j 11:09	0°♊	
	683 Feb 10 j 19:34	0°♁			688 Aug 10 j 16:47	0°♌	
	683 Mar 21 j 06:32	0°♃			688 Sep 22 j 21:00	0°♁	
	683 Apr 29 j 10:21	0°♃			688 Nov 01 j 18:10	0°♂	
	683 Jun 09 j 07:53	0°♂			688 Dec 10 j 06:22	0°♁	
	683 Jul 23 j 09:09	0°♄			689 Jan 17 j 16:52	0°♃	
asc. node	683 Aug 23 j 09:35	19°♄06'01			689 Feb 26 j 01:35	0°♃	
	683 Sep 12 j 03:03	0°♁		evening set	689 Mar 15 j 10:55	12°♃53'25	
retrograde	683 Nov 20 j 12:57	22°♁06'47			689 Apr 08 j 01:44	0°♂	
min. Earth dist.	683 Dec 28 j 07:29	13°♁09'02	0.65875 AU	asc. node	689 Apr 14 j 06:44	4°♂25'10	
opposition	683 Dec 30 j 16:49	12°♁11'28	4°07'24				
greatest brilliancy	683 Dec 30 j 04:20	12°♁24'00	-1.3m	conjunction	689 May 12 j 20:00	24°♂21'01	0°17'20
direct	684 Feb 08 j 07:21	2°♁45'23		minimum elong	689 May 12 j 19:04	24°♂19'25	0°17'20
	684 May 02 j 01:46	0°♂			689 May 21 j 02:16	0°♄	
	684 Jun 24 j 16:16	0°♎		max. Earth dist.	689 Jun 10 j 14:37	13°♄49'27	2.57706 AU
	684 Aug 11 j 05:46	0°♊		morning rise	689 Jul 04 j 12:12	29°♄35'29	
desc. node	684 Sep 10 j 02:33	20°♊11'22			689 Jul 05 j 03:14	0°♁	
	684 Sep 24 j 02:40	0°♌			689 Aug 20 j 23:25	0°♂	
evening set	684 Nov 02 j 13:42	28°♌44'14			689 Oct 08 j 13:45	0°♎	
	684 Nov 04 j 06:12	0°♁			689 Nov 28 j 23:22	0°♊	
max. Earth dist.	684 Nov 30 j 10:49	19°♁53'58	2.38801 AU		690 Jan 29 j 02:11	0°♌	
	684 Dec 13 j 12:09	0°♂		retrograde	690 Mar 16 j 18:46	10°♌32'48	
conjunction	685 Jan 01 j 18:02	15°♂02'46	0°-59'-36	opposition	690 Apr 21 j 02:28	3°♌16'36	0°35'19
minimum elong	685 Jan 01 j 15:58	14°♂58'43	0°59'37	greatest brilliancy	690 Apr 21 j 10:04	3°♌09'52	-2.0m
	685 Jan 20 j 17:38	0°♁		min. Earth dist.	690 Apr 29 j 09:37	0°♌21'09	0.51441 AU
	685 Feb 27 j 20:28	0°♃			690 Apr 30 j 10:27	30°♃♊	
morning rise	685 Mar 11 j 20:35	9°♃21'25		desc. node	690 May 02 j 22:49	29°♊10'00	
	685 Apr 07 j 17:49	0°♃		direct	690 May 29 j 22:05	24°♊22'58	
	685 May 18 j 05:28	0°♂			690 Jun 29 j 06:03	0°♌	
	685 Jun 30 j 01:33	0°♄			690 Aug 25 j 20:30	0°♁	
asc. node	685 Jul 10 j 08:21	6°♄54'37			690 Oct 08 j 03:36	0°♂	
	685 Aug 15 j 04:28	0°♁			690 Nov 17 j 07:35	0°♁	
	685 Oct 06 j 05:19	0°♂			690 Dec 26 j 22:42	0°♃	
retrograde	685 Dec 24 j 01:29	25°♂04'01		asc. node	691 Feb 05 j 08:34	0°♃	
opposition	686 Feb 01 j 19:48	16°♂15'02	4°33'22		691 Mar 02 j 05:44	17°♃56'41	
greatest brilliancy	686 Feb 02 j 01:55	16°♂08'57	-1.2m		691 Mar 19 j 07:29	0°♂	
min. Earth dist.	686 Feb 03 j 07:35	15°♂39'29	0.67462 AU	evening set	691 May 02 j 02:42	0°♄	
direct	686 Mar 14 j 23:07	6°♂18'11			691 May 06 j 22:25	3°♄13'46	
	686 May 29 j 11:38	0°♎			691 Jun 16 j 14:33	0°♁	
	686 Jul 20 j 19:30	0°♊		conjunction	691 Jun 26 j 07:30	6°♁17'09	0°57'35
desc. node	686 Jul 29 j 01:47	5°♊14'31		minimum elong	691 Jun 26 j 06:15	6°♁15'07	0°57'34
	686 Sep 04 j 00:19	0°♌		max. Earth dist.	691 Jul 07 j 01:46	13°♁13'15	2.65296 AU
	686 Oct 15 j 11:36	0°♁			691 Aug 02 j 07:21	0°♂	
	686 Nov 23 j 16:59	0°♂		morning rise	691 Aug 12 j 00:21	6°♂10'32	
	686 Dec 31 j 20:17	0°♁			691 Sep 18 j 15:28	0°♎	
evening set	687 Jan 07 j 01:17	4°♁54'25			691 Nov 05 j 07:41	0°♊	
	687 Feb 07 j 22:25	0°♃			691 Dec 23 j 15:38	0°♌	

	692 Feb 12 j 03:28	0°♁		697 Jun 05 j 02:40	0°♈		
desc. node	692 Mar 19 j 22:38	19°♁36'19		697 Jul 23 j 11:24	0°♎		
	692 Apr 12 j 18:16	0°♁	evening set	697 Aug 30 j 13:44	24°♎43'46		
retrograde	692 May 22 j 13:45	8°♁26'28		697 Sep 07 j 11:41	0°♊		
opposition	692 Jun 22 j 08:21	3°♁14'08	-5°-22'-40	max. Earth dist.	697 Sep 18 j 01:03	7°♊06'24	2.55870 AU
greatest brilliancy	692 Jun 23 j 12:45	2°♁54'10	-2.7m				
min. Earth dist.	692 Jun 27 j 06:31	1°♁51'27	0.39197 AU	conjunction	697 Oct 17 j 16:28	27°♊32'27	0°14'07
	692 Jul 04 j 10:42	30°♁		minimum elong	697 Oct 17 j 17:04	27°♊33'30	0°14'06
direct	692 Jul 24 j 11:10	27°♁24'55		behind sun begin	697 Oct 17 j 06:39	27°♊15'14	
	692 Aug 13 j 04:55	0°♁		behind sun end	697 Oct 18 j 03:29	27°♊51'46	
	692 Oct 14 j 09:22	0°♁			697 Oct 21 j 04:26	0°♌	
	692 Nov 28 j 22:11	0°♁		desc. node	697 Nov 09 j 20:11	14°♌00'08	
	693 Jan 11 j 17:22	0°♁			697 Dec 01 j 18:51	0°♁	
asc. node	693 Jan 17 j 04:00	3°♁43'19		morning rise	697 Dec 07 j 19:00	4°♁26'30	
	693 Feb 24 j 23:47	0°♁			698 Jan 10 j 17:41	0°♁	
	693 Apr 11 j 10:01	0°♁			698 Feb 18 j 15:55	0°♁	
	693 May 27 j 22:51	0°♁			698 Mar 29 j 08:28	0°♁	
evening set	693 Jun 16 j 17:31	12°♁36'34			698 May 07 j 18:05	0°♁	
	693 Jul 14 j 02:05	0°♁			698 Jun 18 j 01:52	0°♁	
max. Earth dist.	693 Jul 29 j 18:35	9°♁58'35	2.67480 AU		698 Aug 02 j 09:33	0°♁	
				asc. node	698 Sep 09 j 00:44	21°♁07'47	
conjunction	693 Aug 02 j 06:30	12°♁12'10	1°09'21		698 Sep 29 j 00:51	0°♁	
minimum elong	693 Aug 02 j 06:34	12°♁12'18	1°09'21	retrograde	698 Nov 06 j 19:50	8°♁23'40	
	693 Aug 30 j 02:53	0°♁			698 Dec 12 j 21:55	30°♁	
morning rise	693 Sep 15 j 19:25	10°♁44'24		min. Earth dist.	698 Dec 12 j 22:57	29°♁58'58	0.63489 AU
	693 Oct 15 j 11:06	0°♁		opposition	698 Dec 16 j 20:09	28°♁25'39	3°34'02
	693 Nov 29 j 20:28	0°♁		greatest brilliancy	698 Dec 16 j 02:50	28°♁42'59	-1.4m
	694 Jan 13 j 07:51	0°♁		direct	699 Jan 24 j 11:50	19°♁19'12	
desc. node	694 Feb 04 j 21:17	15°♁24'24			699 Mar 12 j 18:29	0°♁	
	694 Feb 26 j 03:48	0°♁			699 May 13 j 13:11	0°♁	
	694 Apr 11 j 02:03	0°♁			699 Jul 03 j 17:57	0°♁	
	694 May 27 j 15:34	0°♁			699 Aug 19 j 15:09	0°♁	
retrograde	694 Aug 08 j 05:12	27°♁07'32		desc. node	699 Sep 27 j 18:54	26°♁46'26	
min. Earth dist.	694 Sep 03 j 18:01	22°♁32'27	0.40642 AU		699 Oct 02 j 08:34	0°♁	
greatest brilliancy	694 Sep 09 j 06:37	20°♁50'56	-2.7m	evening set	699 Oct 13 j 20:48	8°♁13'00	
opposition	694 Sep 10 j 16:46	20°♁24'38	-4°-49'-54	max. Earth dist.	699 Oct 29 j 20:06	19°♁49'45	2.43565 AU
direct	694 Oct 11 j 06:50	14°♁47'01			699 Nov 12 j 13:38	0°♁	
asc. node	694 Dec 05 j 03:45	0°♁03'46					
	694 Dec 05 j 00:31	0°♁		conjunction	699 Dec 08 j 08:11	19°♁30'33	0°-42'-31
	695 Jan 29 j 14:07	0°♁		minimum elong	699 Dec 08 j 05:56	19°♁26'14	0°42'31
	695 Mar 20 j 12:53	0°♁			699 Dec 21 j 22:59	0°♁	
	695 May 08 j 09:03	0°♁			700 Jan 29 j 07:39	0°♁	
	695 Jun 25 j 15:21	0°♁		morning rise	700 Feb 10 j 11:57	9°♁35'01	
evening set	695 Jul 24 j 08:21	18°♁06'27			700 Mar 07 j 12:29	0°♁	
	695 Aug 11 j 23:05	0°♁			700 Apr 15 j 10:47	0°♁	
max. Earth dist.	695 Aug 22 j 07:10	6°♁40'07	2.64239 AU		700 May 25 j 23:35	0°♁	
					700 Jul 08 j 01:20	0°♁	
conjunction	695 Sep 08 j 02:19	17°♁36'37	0°54'26	asc. node	700 Jul 27 j 00:13	12°♁28'41	
minimum elong	695 Sep 08 j 03:28	17°♁38'31	0°54'26		700 Aug 24 j 02:58	0°♁	
	695 Sep 26 j 20:22	0°♁			700 Oct 19 j 21:24	0°♁	
morning rise	695 Oct 23 j 15:58	18°♁03'59		retrograde	700 Dec 10 j 14:23	13°♁01'55	
	695 Nov 10 j 00:50	0°♁		opposition	701 Jan 19 j 15:47	3°♁19'47	4°32'54
	695 Dec 22 j 13:03	0°♁		greatest brilliancy	701 Jan 19 j 14:08	3°♁21'26	-1.2m
desc. node	695 Dec 23 j 20:23	0°♁56'19		min. Earth dist.	701 Jan 19 j 14:58	3°♁20'36	0.67627 AU
	696 Feb 01 j 15:20	0°♁			701 Jan 28 j 04:36	30°♁	
	696 Mar 12 j 18:54	0°♁		direct	701 Mar 01 j 08:50	23°♁31'50	
	696 Apr 21 j 18:51	0°♁			701 Apr 05 j 23:21	0°♁	
	696 Jun 02 j 00:17	0°♁			701 Jun 09 j 14:34	0°♁	
	696 Jul 17 j 16:04	0°♁			701 Jul 29 j 07:04	0°♁	
retrograde	696 Sep 28 j 16:19	26°♁48'05		desc. node	701 Aug 14 j 17:18	10°♁45'43	
asc. node	696 Oct 22 j 02:50	22°♁51'38			701 Sep 11 j 19:20	0°♁	
min. Earth dist.	696 Oct 29 j 19:07	20°♁10'22	0.53306 AU		701 Oct 23 j 02:05	0°♁	
opposition	696 Nov 06 j 01:50	17°♁23'30	0°43'26		701 Dec 01 j 06:57	0°♁	
greatest brilliancy	696 Nov 05 j 17:57	17°♁31'02	-1.9m	evening set	701 Dec 10 j 11:14	7°♁10'27	
direct	696 Dec 11 j 06:08	9°♁34'43			702 Jan 08 j 10:23	0°♁	
	697 Feb 17 j 15:09	0°♁					
	697 Apr 15 j 02:26	0°♁		conjunction	702 Feb 15 j 04:45	29°♁45'51	-1°-1'-1

minimum elong	702 Feb 15 j 06:55	29°≈50'06	1°01'02		707 Mar 02 j 23:48	0°♁	
	702 Feb 15 j 11:59	0°♁		desc. node	707 Apr 06 j 13:58	11°♁10'47	
	702 Mar 26 j 09:22	0°♁		retrograde	707 Apr 23 j 21:17	12°♁54'02	
max. Earth dist.	702 Apr 05 j 05:43	7°♁25'43	2.40086 AU	opposition	707 May 26 j 08:09	6°♁54'08	-2°-50'00
morning rise	702 Apr 24 j 20:33	21°♁58'51		greatest brilliancy	707 May 27 j 11:38	6°♁32'37	-2.5m
	702 May 05 j 20:48	0°♁		min. Earth dist.	707 Jun 03 j 03:21	4°♁28'05	0.43372 AU
asc. node	702 Jun 14 j 00:17	27°♁35'48			707 Jun 23 j 23:28	30°♁	
	702 Jun 17 j 12:29	0°♁		direct	707 Jun 30 j 15:52	29°♁41'21	
	702 Aug 01 j 19:44	0°♁			707 Jul 07 j 07:53	0°♁	
	702 Sep 19 j 16:27	0°♁			707 Sep 16 j 05:15	0°♁	
	702 Nov 15 j 10:28	0°♁			707 Oct 30 j 15:39	0°≈	
retrograde	703 Jan 15 j 04:04	16°♁29'50			707 Dec 11 j 10:15	0°♁	
opposition	703 Feb 23 j 04:00	7°♁27'35	4°08'54	asc. node	708 Jan 22 j 07:16	0°♁	
greatest brilliancy	703 Feb 23 j 21:11	7°♁10'46	-1.3m		708 Feb 03 j 20:38	8°♁51'24	
min. Earth dist.	703 Feb 27 j 00:05	5°♁57'32	0.65181 AU		708 Mar 05 j 08:27	0°♁	
	703 Mar 16 j 16:26	30°♁			708 Apr 18 j 23:08	0°♁	
direct	703 Apr 05 j 12:55	27°♁25'57		evening set	708 Jun 01 j 06:14	28°♁14'34	
	703 Apr 26 j 18:23	0°♁			708 Jun 03 j 23:40	0°♁	
desc. node	703 Jul 02 j 16:14	28°♁55'40					
	703 Jul 04 j 13:15	0°♁		conjunction	708 Jul 18 j 21:15	28°♁43'35	1°08'02
	703 Aug 21 j 04:27	0°♁		minimum elong	708 Jul 18 j 20:46	28°♁42'49	1°08'02
	703 Oct 02 j 10:01	0°♁			708 Jul 20 j 21:13	0°♁	
	703 Nov 10 j 22:23	0°♁		max. Earth dist.	708 Jul 20 j 18:23	29°♁55'30	2.67293 AU
	703 Dec 19 j 05:23	0°≈		morning rise	708 Sep 01 j 21:22	27°♁23'58	
	704 Jan 26 j 11:11	0°♁			708 Sep 05 j 23:09	0°♁	
evening set	704 Feb 19 j 10:32	18°♁29'35			708 Oct 22 j 16:45	0°♁	
	704 Mar 05 j 14:48	0°♁			708 Dec 07 j 22:08	0°♁	
	704 Apr 15 j 09:29	0°♁			709 Jan 22 j 20:15	0°♁	
				desc. node	709 Feb 21 j 14:21	19°♁21'21	
conjunction	704 Apr 21 j 23:45	4°♁43'05	0°-5'-38		709 Mar 10 j 03:37	0°♁	
minimum elong	704 Apr 22 j 00:07	4°♁43'45	0°05'38		709 Apr 28 j 04:38	0°≈	
behind sun begin	704 Apr 21 j 00:37	4°♁01'51		retrograde	709 Jul 11 j 15:09	26°≈49'07	
behind sun end	704 Apr 22 j 23:38	5°♁25'36		min. Earth dist.	709 Aug 08 j 12:35	22°≈16'55	0.37741 AU
asc. node	704 Apr 30 j 22:48	11°♁04'09		opposition	709 Aug 11 j 16:01	21°≈25'18	-6°-40'-41
	704 May 28 j 05:25	0°♁		greatest brilliancy	709 Aug 10 j 21:38	21°≈37'55	-2.8m
max. Earth dist.	704 May 29 j 01:19	0°♁34'00	2.53358 AU	direct	709 Sep 10 j 05:57	16°≈27'36	
morning rise	704 Jun 17 j 10:43	13°♁39'51			709 Oct 30 j 05:16	0°♁	
	704 Jul 12 j 04:49	0°♁		asc. node	709 Dec 21 j 19:02	28°♁57'55	
	704 Aug 28 j 06:56	0°♁			709 Dec 23 j 12:04	0°♁	
	704 Oct 16 j 20:58	0°♁			710 Feb 09 j 17:05	0°♁	
	704 Dec 10 j 17:28	0°♁			710 Mar 29 j 04:41	0°♁	
retrograde	705 Feb 24 j 23:05	23°♁41'37			710 May 15 j 21:08	0°♁	
opposition	705 Apr 02 j 15:24	15°♁46'47	2°04'43		710 Jul 02 j 14:16	0°♁	
greatest brilliancy	705 Apr 03 j 11:56	15°♁27'46	-1.7m	evening set	710 Jul 09 j 22:19	4°♁38'04	
min. Earth dist.	705 Apr 10 j 00:10	13°♁03'35	0.56349 AU	max. Earth dist.	710 Aug 13 j 00:20	26°♁19'23	2.66154 AU
direct	705 May 12 j 18:51	6°♁16'20			710 Aug 18 j 17:49	0°♁	
desc. node	705 May 19 j 14:57	6°♁34'29					
	705 Jul 21 j 22:37	0°♁		conjunction	710 Aug 24 j 15:10	3°♁47'34	1°03'18
	705 Sep 07 j 01:59	0°♁		minimum elong	710 Aug 24 j 16:00	3°♁48'56	1°03'18
	705 Oct 18 j 07:37	0°♁			710 Oct 03 j 18:02	0°♁	
	705 Nov 26 j 12:57	0°≈		morning rise	710 Oct 08 j 08:43	3°♁03'30	
	706 Jan 04 j 12:24	0°♁			710 Nov 17 j 07:43	0°♁	
	706 Feb 13 j 09:11	0°♁			710 Dec 30 j 10:24	0°♁	
asc. node	706 Mar 18 j 21:32	24°♁20'41		desc. node	711 Jan 09 j 12:51	7°♁09'54	
	706 Mar 26 j 20:37	0°♁			711 Feb 10 j 07:16	0°♁	
evening set	706 Apr 18 j 05:33	15°♁37'42			711 Mar 23 j 08:37	0°≈	
	706 May 09 j 06:35	0°♁			711 May 03 j 12:37	0°♁	
					711 Jun 15 j 22:38	0°♁	
conjunction	706 Jun 10 j 03:46	21°♁15'01	0°45'25		711 Aug 10 j 04:25	0°♁	
minimum elong	706 Jun 10 j 02:16	21°♁12'33	0°45'24	retrograde	711 Sep 11 j 15:02	6°♁46'03	
	706 Jun 23 j 12:30	0°♁		min. Earth dist.	711 Oct 10 j 13:17	0°♁59'34	0.48162 AU
max. Earth dist.	706 Jun 27 j 09:35	2°♁31'24	2.62966 AU		711 Oct 13 j 08:01	30°♁	
morning rise	706 Jul 28 j 15:23	22°♁38'29		opposition	711 Oct 18 j 14:34	28°♁04'47	-1°-7'-31
	706 Aug 09 j 04:40	0°♁		greatest brilliancy	711 Oct 18 j 02:31	28°♁15'43	-2.2m
	706 Sep 25 j 20:37	0°♁		asc. node	711 Nov 08 j 18:01	22°♁03'47	
	706 Nov 13 j 12:14	0°♁		direct	711 Nov 21 j 01:36	21°♁01'28	
	707 Jan 03 j 06:43	0°♁			712 Jan 01 j 06:58	0°♁	

	712 Mar 02 j 21:00	0°♁			717 Feb 23 j 01:03	0°♁		
	712 Apr 23 j 23:20	0°♁		morning rise	717 Mar 28 j 12:47	25°♁55'01		
	712 Jun 12 j 14:24	0°♁			717 Apr 02 j 21:33	0°♁		
	712 Jul 30 j 10:51	0°♁			717 May 13 j 07:55	0°♁		
evening set	712 Aug 15 j 08:53	10°♁15'09			717 Jun 25 j 00:39	0°♁		
max. Earth dist.	712 Sep 06 j 12:11	24°♁46'08	2.59727 AU	asc. node	717 Jun 30 j 15:21	3°♁48'20		
	712 Sep 14 j 08:45	0°♁			717 Aug 09 j 17:20	0°♁		
					717 Sep 29 j 04:04	0°♁		
conjunction	712 Oct 01 j 02:23	11°♁16'59	0°32'34		717 Dec 06 j 16:26	0°♁		
minimum elong	712 Oct 01 j 03:29	11°♁18'51	0°32'33	retrograde	717 Dec 31 j 22:46	3°♁31'07		
	712 Oct 28 j 05:09	0°♁			718 Jan 24 j 06:57	30°♁		
morning rise	712 Nov 18 j 06:52	14°♁55'30		opposition	718 Feb 09 j 12:00	24°♁10'40	4°28'00	
desc. node	712 Nov 26 j 11:33	20°♁49'04		greatest brilliancy	718 Feb 09 j 22:19	24°♁00'27	-1.2m	
	712 Dec 09 j 02:48	0°♁		min. Earth dist.	718 Feb 11 j 19:55	23°♁15'22	0.66920 AU	
	713 Jan 18 j 10:42	0°♁		direct	718 Mar 22 j 19:13	14°♁10'50		
	713 Feb 26 j 18:06	0°♁			718 May 20 j 13:38	0°♁		
	713 Apr 06 j 19:17	0°♁			718 Jul 14 j 20:16	0°♁		
	713 May 16 j 14:59	0°♁		desc. node	718 Jul 19 j 07:44	2°♁45'34		
	713 Jun 27 j 18:04	0°♁			718 Aug 29 j 18:15	0°♁		
	713 Aug 14 j 17:49	0°♁			718 Oct 10 j 11:29	0°♁		
asc. node	713 Sep 25 j 17:43	18°♁57'05			718 Nov 18 j 19:24	0°♁		
retrograde	713 Oct 23 j 11:31	23°♁39'34			718 Dec 26 j 23:56	0°♁		
min. Earth dist.	713 Nov 26 j 18:19	15°♁53'00	0.60125 AU	greatest brilliancy	718 Dec 26 j 13:30	29°♁39'23	1.2m	
greatest brilliancy	713 Dec 01 j 07:40	14°♁04'34	-1.6m	evening set	719 Jan 22 j 23:37	21°♁16'30		
opposition	713 Dec 02 j 02:34	13°♁45'48	2°44'30		719 Feb 03 j 02:56	0°♁		
direct	714 Jan 08 j 13:50	5°♁04'26			719 Mar 14 j 02:51	0°♁		
	714 Mar 28 j 07:45	0°♁						
	714 May 22 j 14:24	0°♁		conjunction	719 Mar 30 j 06:15	12°♁05'44	0°-30'-26	
	714 Jul 11 j 08:27	0°♁		minimum elong	719 Mar 30 j 08:28	12°♁09'50	0°30'25	
	714 Aug 26 j 19:06	0°♁			719 Apr 23 j 17:16	0°♁		
evening set	714 Sep 25 j 11:30	20°♁11'51		max. Earth dist.	719 May 14 j 19:02	15°♁00'26	2.48341 AU	
	714 Oct 09 j 11:16	0°♁		asc. node	719 May 18 j 15:13	17°♁42'04		
max. Earth dist.	714 Oct 10 j 07:56	0°♁36'35	2.48643 AU	morning rise	719 May 30 j 10:36	25°♁54'15		
desc. node	714 Oct 14 j 10:39	3°♁31'49			719 Jun 05 j 09:40	0°♁		
					719 Jul 20 j 09:25	0°♁		
conjunction	714 Nov 16 j 06:59	27°♁23'51	0°-20'-26		719 Sep 05 j 21:44	0°♁		
minimum elong	714 Nov 16 j 05:54	27°♁21'50	0°20'26		719 Oct 27 j 01:39	0°♁		
	714 Nov 19 j 19:08	0°♁			719 Dec 28 j 20:36	0°♁		
	714 Dec 29 j 08:55	0°♁		retrograde	720 Feb 08 j 11:45	8°♁33'47		
morning rise	715 Jan 13 j 11:45	11°♁42'26		opposition	720 Mar 17 j 06:21	0°♁08'07	3°08'01	
	715 Feb 05 j 21:58	0°♁			720 Mar 17 j 14:52	30°♁		
	715 Mar 16 j 06:13	0°♁		greatest brilliancy	720 Mar 18 j 05:28	29°♁46'03	-1.5m	
	715 Apr 24 j 07:15	0°♁		min. Earth dist.	720 Mar 23 j 08:30	27°♁49'06	0.60511 AU	
	715 Jun 04 j 00:01	0°♁		direct	720 Apr 27 j 04:34	20°♁17'22		
	715 Jul 17 j 13:06	0°♁		desc. node	720 Jun 05 j 07:22	28°♁35'58		
asc. node	715 Aug 13 j 16:42	17°♁16'07			720 Jun 08 j 20:47	0°♁		
	715 Sep 04 j 08:55	0°♁			720 Aug 03 j 23:21	0°♁		
	715 Nov 23 j 13:46	0°♁			720 Sep 17 j 02:46	0°♁		
retrograde	715 Nov 28 j 05:56	0°♁08'26			720 Oct 27 j 08:51	0°♁		
	715 Dec 02 j 20:18	30°♁			720 Dec 05 j 01:48	0°♁		
min. Earth dist.	716 Jan 05 j 20:50	20°♁54'21	0.66772 AU		721 Jan 12 j 15:44	0°♁		
opposition	716 Jan 07 j 10:16	20°♁16'49	4°20'29		721 Feb 21 j 03:41	0°♁		
greatest brilliancy	716 Jan 07 j 01:19	20°♁25'48	-1.3m	evening set	721 Mar 28 j 10:04	25°♁48'28		
direct	716 Feb 16 j 11:54	10°♁41'54			721 Apr 03 j 06:46	0°♁		
	716 Apr 23 j 22:20	0°♁		asc. node	721 Apr 04 j 13:26	0°♁54'37		
	716 Jun 18 j 23:53	0°♁			721 May 16 j 09:32	0°♁		
	716 Aug 06 j 05:12	0°♁						
desc. node	716 Aug 31 j 09:26	16°♁50'34		conjunction	721 May 23 j 15:07	4°♁53'55	0°28'50	
	716 Sep 19 j 07:47	0°♁		minimum elong	721 May 23 j 13:47	4°♁51'42	0°28'50	
	716 Oct 30 j 12:49	0°♁		max. Earth dist.	721 Jun 17 j 02:35	21°♁13'55	2.59813 AU	
evening set	716 Nov 15 j 09:50	11°♁59'38			721 Jun 30 j 11:11	0°♁		
	716 Dec 08 j 18:39	0°♁		morning rise	721 Jul 13 j 13:46	8°♁30'49		
max. Earth dist.	717 Jan 09 j 14:28	24°♁58'20	2.37209 AU		721 Aug 16 j 04:41	0°♁		
	717 Jan 15 j 23:16	0°♁			721 Oct 03 j 08:42	0°♁		
					721 Nov 22 j 12:01	0°♁		
conjunction	717 Jan 17 j 06:49	1°♁02'18	-1°-4'-25		722 Jan 16 j 22:36	0°♁		
minimum elong	717 Jan 17 j 05:58	1°♁00'39	1°04'26	retrograde	722 Mar 29 j 08:08	21°♁33'30		

desc. node	722 Apr 23 j 06:45	17°♄44'41		evening set	727 Aug 01 j 15:56	26°♁22'23	
opposition	722 May 02 j 17:56	14°♄42'19	0°-29'-53		727 Aug 07 j 07:55	0°♁	
greatest brilliancy	722 May 03 j 00:02	14°♄37'07	-2.2m	max. Earth dist.	727 Aug 28 j 01:10	13°♁23'56	2.62855 AU
min. Earth dist.	722 May 11 j 06:48	11°♄48'12	0.48556 AU				
direct	722 Jun 09 j 14:04	6°♄17'43		conjunction	727 Sep 16 j 14:46	26°♁15'48	0°47'29
	722 Aug 16 j 05:01	0°♁		minimum elong	727 Sep 16 j 15:59	26°♁17'49	0°47'29
	722 Oct 01 j 00:37	0°♁			727 Sep 22 j 05:38	0°♁	
	722 Nov 11 j 02:35	0°♁		morning rise	727 Nov 01 j 21:30	27°♁37'50	
	722 Dec 21 j 06:03	0°♁			727 Nov 05 j 07:28	0°♄	
	723 Jan 31 j 00:53	0°♁		desc. node	727 Dec 14 j 03:38	27°♄30'25	
asc. node	723 Feb 20 j 11:33	14°♁40'14			727 Dec 17 j 14:28	0°♁	
	723 Mar 14 j 06:47	0°♁			728 Jan 27 j 09:41	0°♁	
	723 Apr 27 j 07:16	0°♁			728 Mar 07 j 05:01	0°♁	
evening set	723 May 16 j 21:34	12°♁59'49			728 Apr 15 j 18:35	0°♁	
	723 Jun 11 j 22:33	0°♁			728 May 26 j 07:18	0°♁	
					728 Jul 09 j 01:08	0°♁	
conjunction	723 Jul 05 j 02:51	14°♁56'23	1°02'39		728 Sep 03 j 03:14	0°♁	
minimum elong	723 Jul 05 j 01:51	14°♁54'46	1°02'38	retrograde	728 Oct 08 j 02:05	7°♁25'24	
max. Earth dist.	723 Jul 12 j 13:08	19°♁42'00	2.66251 AU	asc. node	728 Oct 12 j 09:14	7°♁17'23	
	723 Jul 28 j 16:19	0°♁		min. Earth dist.	728 Nov 09 j 09:00	0°♁21'58	0.55937 AU
morning rise	723 Aug 20 j 01:23	14°♁14'13			728 Nov 10 j 07:52	30°♁	
	723 Sep 13 j 21:20	0°♁		greatest brilliancy	728 Nov 15 j 10:37	28°♁00'26	-1.8m
	723 Oct 31 j 03:58	0°♁		opposition	728 Nov 16 j 01:18	27°♁46'09	1°34'50
	723 Dec 17 j 13:51	0°♁		direct	728 Dec 22 j 02:54	19°♁36'23	
	724 Feb 03 j 21:03	0°♁			729 Feb 05 j 22:22	0°♁	
desc. node	724 Mar 10 j 05:37	20°♁53'35			729 Apr 08 j 15:46	0°♁	
	724 Mar 26 j 17:36	0°♁			729 May 30 j 20:26	0°♁	
retrograde	724 Jun 09 j 19:35	25°♁16'23			729 Jul 18 j 15:40	0°♁	
opposition	724 Jul 09 j 23:01	20°♁17'50	-6°-27'-29		729 Sep 02 j 19:40	0°♁	
greatest brilliancy	724 Jul 10 j 15:10	20°♁07'05	-2.8m	evening set	729 Sep 08 j 16:17	3°♁55'44	
min. Earth dist.	724 Jul 12 j 07:42	19°♁40'06	0.37839 AU	max. Earth dist.	729 Sep 25 j 11:37	15°♁21'16	2.53446 AU
direct	724 Aug 09 j 12:32	15°♁04'37			729 Oct 16 j 12:36	0°♄	
	724 Sep 30 j 04:33	0°♁					
	724 Nov 20 j 09:42	0°♁		conjunction	729 Oct 27 j 20:40	8°♄02'56	0°02'02
	725 Jan 05 j 01:45	0°♁		minimum elong	729 Oct 27 j 20:48	8°♄03'09	0°02'02
asc. node	725 Jan 07 j 11:24	1°♁35'50		behind sun begin	729 Oct 26 j 23:29	7°♄25'06	
	725 Feb 19 j 07:16	0°♁		behind sun end	729 Oct 28 j 18:06	8°♄41'15	
	725 Apr 06 j 06:45	0°♁		desc. node	729 Oct 31 j 02:27	10°♄22'12	
	725 May 23 j 03:28	0°♁			729 Nov 27 j 01:04	0°♁	
evening set	725 Jun 25 j 07:35	21°♁02'25		morning rise	729 Dec 20 j 02:26	17°♁14'25	
	725 Jul 09 j 10:52	0°♁			730 Jan 05 j 20:54	0°♁	
max. Earth dist.	725 Aug 04 j 01:18	16°♁16'23	2.67243 AU		730 Feb 13 j 15:53	0°♁	
					730 Mar 24 j 04:57	0°♁	
conjunction	725 Aug 10 j 10:19	20°♁20'30	1°08'16		730 May 02 j 10:19	0°♁	
minimum elong	725 Aug 10 j 10:42	20°♁21'07	1°08'16		730 Jun 12 j 10:16	0°♁	
	725 Aug 25 j 12:16	0°♁			730 Jul 26 j 19:47	0°♁	
morning rise	725 Sep 23 j 21:29	18°♁59'37		asc. node	730 Aug 30 j 08:40	20°♁39'08	
	725 Oct 10 j 17:25	0°♁			730 Sep 17 j 08:13	0°♁	
	725 Nov 24 j 19:00	0°♁		retrograde	730 Nov 14 j 17:32	16°♁48'10	
	726 Jan 07 j 16:53	0°♁		min. Earth dist.	730 Dec 21 j 19:12	8°♁04'53	0.64926 AU
desc. node	726 Jan 26 j 04:36	12°♁50'18		opposition	730 Dec 24 j 20:55	6°♁51'00	3°55'21
	726 Feb 19 j 16:18	0°♁		greatest brilliancy	730 Dec 24 j 05:55	7°♁06'02	-1.4m
	726 Apr 03 j 05:35	0°♁			731 Jan 13 j 16:00	30°♁	
	726 May 16 j 19:50	0°♁		direct	731 Feb 02 j 02:22	27°♁33'06	
	726 Jul 06 j 07:53	0°♁			731 Feb 23 j 01:23	0°♁	
retrograde	726 Aug 21 j 17:27	12°♁56'35			731 May 06 j 22:01	0°♁	
min. Earth dist.	726 Sep 17 j 18:39	7°♁59'55	0.43100 AU		731 Jun 28 j 10:46	0°♁	
greatest brilliancy	726 Sep 24 j 08:32	5°♁50'20	-2.5m		731 Aug 14 j 18:19	0°♁	
opposition	726 Sep 25 j 14:42	5°♁25'21	-3°-26'-32	desc. node	731 Sep 18 j 01:38	23°♁17'18	
	726 Oct 16 j 20:20	30°♁			731 Sep 27 j 15:04	0°♄	
direct	726 Oct 27 j 06:32	29°♁16'15		evening set	731 Oct 25 j 07:00	19°♄57'14	
	726 Nov 06 j 21:18	0°♁			731 Nov 07 j 20:16	0°♁	
asc. node	726 Nov 25 j 11:13	4°♁15'13		max. Earth dist.	731 Nov 14 j 01:51	4°♁40'29	2.40788 AU
	727 Jan 21 j 03:16	0°♁			731 Dec 17 j 04:25	0°♁	
	727 Mar 14 j 10:07	0°♁					
	727 May 03 j 03:49	0°♁		conjunction	731 Dec 22 j 06:59	3°♁58'05	0°-53'-18
	727 Jun 20 j 20:05	0°♁		minimum elong	731 Dec 22 j 04:34	3°♁53'22	0°53'18

	732 Jan 24 j 11:36	0°♊		greatest brilliancy	737 Apr 13 j 10:29	25°♌39'41	-1.9m
morning rise	732 Feb 27 j 12:51	26°♋47'52		min. Earth dist.	737 Apr 20 j 19:04	23°♌00'36	0.53712 AU
	732 Mar 02 j 15:01	0°♌		desc. node	737 May 09 j 22:10	17°♌43'37	
	732 Apr 10 j 12:02	0°♍		direct	737 May 22 j 08:14	16°♌40'32	
	732 May 20 j 22:57	0°♎			737 Jul 10 j 17:01	0°♍	
	732 Jul 02 j 19:22	0°♏			737 Aug 30 j 22:45	0°♎	
asc. node	732 Jul 17 j 08:06	9°♏41'56			737 Oct 12 j 04:48	0°♏	
	732 Aug 18 j 04:24	0°♐			737 Nov 20 j 21:40	0°♐	
	732 Oct 10 j 13:32	0°♑			737 Dec 30 j 04:35	0°♑	
retrograde	732 Dec 18 j 06:32	20°♑46'28			738 Feb 08 j 07:11	0°♒	
opposition	733 Jan 27 j 05:00	11°♒11'06	4°34'28	asc. node	738 Mar 09 j 05:03	20°♒56'52	
greatest brilliancy	733 Jan 27 j 07:37	11°♒08'29	-1.2m		738 Mar 21 j 23:33	0°♓	
min. Earth dist.	733 Jan 28 j 00:14	10°♒51'56	0.67669 AU	evening set	738 Apr 29 j 02:14	26°♓18'54	
direct	733 Mar 09 j 04:56	1°♒17'44			738 May 04 j 13:06	0°♏	
	733 Jun 02 j 16:53	0°♓			738 Jun 18 j 21:10	0°♐	
	733 Jul 23 j 20:33	0°♑					
desc. node	733 Aug 05 j 00:58	7°♑50'13		conjunction	738 Jun 19 j 12:43	0°♑25'18	0°52'59
	733 Sep 06 j 19:29	0°♒		minimum elong	738 Jun 19 j 11:19	0°♑23'02	0°52'59
	733 Oct 18 j 05:47	0°♓		max. Earth dist.	738 Jul 03 j 03:29	9°♑14'49	2.64350 AU
	733 Nov 26 j 11:33	0°♔			738 Aug 04 j 12:46	0°♒	
evening set	733 Dec 25 j 18:55	23°♔01'00		morning rise	738 Aug 05 j 22:55	0°♒54'19	
	734 Jan 03 j 15:00	0°♕			738 Sep 20 j 23:34	0°♓	
	734 Feb 10 j 16:21	0°♌			738 Nov 08 j 00:54	0°♑	
					738 Dec 27 j 06:16	0°♒	
conjunction	734 Mar 03 j 10:37	16°♌08'06	0°-52'-28		739 Feb 18 j 04:41	0°♓	
minimum elong	734 Mar 03 j 13:39	16°♌13'57	0°52'28	desc. node	739 Mar 27 j 21:41	17°♓35'08	
	734 Mar 21 j 13:41	0°♍		retrograde	739 May 10 j 00:41	27°♓07'45	
max. Earth dist.	734 Apr 23 j 17:56	24°♍41'38	2.42970 AU	opposition	739 Jun 10 j 12:09	21°♓35'54	-4°-18'00
	734 May 01 j 01:12	0°♎		greatest brilliancy	739 Jun 11 j 19:59	21°♓12'21	-2.6m
morning rise	734 May 08 j 17:47	5°♎32'16		min. Earth dist.	739 Jun 17 j 00:29	19°♓40'55	0.40858 AU
asc. node	734 Jun 04 j 06:05	24°♎12'43		direct	739 Jul 14 j 01:40	15°♓09'45	
	734 Jun 12 j 15:47	0°♏			739 Sep 02 j 16:22	0°♔	
	734 Jul 27 j 18:34	0°♐			739 Oct 22 j 04:24	0°♕	
	734 Sep 13 j 23:27	0°♑			739 Dec 04 j 14:53	0°♌	
	734 Nov 06 j 20:38	0°♒			740 Jan 16 j 09:16	0°♍	
retrograde	735 Jan 23 j 16:02	24°♒36'07		asc. node	740 Jan 25 j 03:18	6°♍04'58	
opposition	735 Mar 03 j 07:18	15°♒45'31	3°51'02		740 Feb 29 j 00:21	0°♎	
greatest brilliancy	735 Mar 04 j 03:24	15°♒26'00	-1.4m		740 Apr 14 j 00:08	0°♏	
min. Earth dist.	735 Mar 07 j 22:58	13°♒57'14	0.63800 AU		740 May 30 j 06:30	0°♐	
direct	735 Apr 13 j 14:59	5°♒45'40		evening set	740 Jun 10 j 04:58	7°♑00'24	
desc. node	735 Jun 22 j 23:30	27°♒58'15			740 Jul 16 j 06:40	0°♑	
	735 Jun 26 j 19:35	0°♓		max. Earth dist.	740 Jul 26 j 00:45	6°♑12'26	2.67501 AU
	735 Aug 15 j 07:29	0°♔					
	735 Sep 27 j 02:15	0°♕		conjunction	740 Jul 27 j 04:05	6°♑55'56	1°09'17
	735 Nov 05 j 20:00	0°♌		minimum elong	740 Jul 27 j 03:56	6°♑55'41	1°09'16
	735 Dec 14 j 05:55	0°♍			740 Sep 01 j 07:48	0°♎	
	736 Jan 21 j 13:39	0°♌		morning rise	740 Sep 09 j 20:44	5°♎28'23	
	736 Feb 29 j 18:59	0°♍			740 Oct 17 j 20:19	0°♑	
evening set	736 Mar 04 j 21:59	3°♍05'28			740 Dec 02 j 14:16	0°♒	
	736 Apr 10 j 15:21	0°♎			741 Jan 16 j 15:51	0°♓	
asc. node	736 Apr 21 j 05:32	7°♎33'04		desc. node	741 Feb 11 j 20:35	17°♎33'43	
					741 Mar 02 j 10:01	0°♔	
conjunction	736 May 04 j 03:37	16°♎38'05	0°08'01		741 Apr 16 j 22:44	0°♕	
minimum elong	736 May 04 j 03:08	16°♎37'13	0°08'00		741 Jun 07 j 03:36	0°♌	
behind sun begin	736 May 03 j 06:17	16°♎00'52		retrograde	741 Jul 27 j 18:35	14°♌40'09	
behind sun end	736 May 04 j 23:58	17°♎13'32		min. Earth dist.	741 Aug 23 j 11:13	10°♌13'37	0.39031 AU
	736 May 23 j 12:15	0°♏		greatest brilliancy	741 Aug 27 j 18:43	8°♌58'49	-2.8m
max. Earth dist.	736 Jun 05 j 14:32	8°♏52'45	2.55845 AU	opposition	741 Aug 29 j 01:32	8°♌36'27	-5°-47'-55
morning rise	736 Jun 27 j 09:26	23°♏23'37		direct	741 Sep 27 j 22:57	3°♌21'09	
	736 Jul 07 j 11:10	0°♐		asc. node	741 Dec 12 j 02:35	29°♌12'22	
	736 Aug 23 j 08:27	0°♑			741 Dec 13 j 13:41	0°♍	
	736 Oct 11 j 06:45	0°♒			742 Feb 02 j 22:12	0°♎	
	736 Dec 02 j 19:50	0°♓			742 Mar 23 j 14:40	0°♏	
	737 Feb 10 j 15:46	0°♔			742 May 10 j 21:19	0°♐	
retrograde	737 Mar 07 j 20:01	3°♔27'32			742 Jun 27 j 21:30	0°♑	
	737 Mar 31 j 09:55	30°♒♌		evening set	742 Jul 18 j 04:57	12°♑48'51	
opposition	737 Apr 12 j 19:45	25°♓53'01	1°16'47		742 Aug 14 j 03:38	0°♒	

max. Earth dist.	742 Aug 18 j 09:31	2°♄43'53	2.65189 AU		747 Jul 11 j 22:55	0°♁	
				asc. node	747 Aug 03 j 23:06	14°♁58'52	
conjunction	742 Sep 01 j 21:00	12°♄06'08	0°58'36		747 Aug 28 j 12:28	0°♁	
minimum elong	742 Sep 01 j 22:02	12°♄07'50	0°58'36		747 Oct 27 j 21:06	0°♁	
	742 Sep 29 j 02:52	0°♁		retrograde	747 Dec 05 j 21:49	8°♁03'10	
morning rise	742 Oct 16 j 23:58	11°♁57'13			748 Jan 10 j 17:30	30°♁	
	742 Nov 12 j 11:57	0°♁		min. Earth dist.	748 Jan 14 j 08:24	28°♁33'31	0.67380 AU
	742 Dec 25 j 07:01	0°♁		opposition	748 Jan 15 j 01:37	28°♁16'17	4°29'13
desc. node	742 Dec 30 j 19:22	3°♁56'33		greatest brilliancy	748 Jan 14 j 20:37	28°♁21'18	-1.2m
	743 Feb 04 j 17:27	0°♁		direct	748 Feb 24 j 12:58	18°♁33'37	
	743 Mar 17 j 06:05	0°♁			748 Apr 13 j 19:28	0°♁	
	743 Apr 26 j 16:10	0°♁			748 Jun 12 j 23:08	0°♁	
	743 Jun 07 j 14:11	0°♁			748 Aug 01 j 01:20	0°♁	
	743 Jul 25 j 10:41	0°♁		desc. node	748 Aug 21 j 16:17	13°♁37'30	
retrograde	743 Sep 22 j 03:20	18°♁57'23			748 Sep 14 j 10:47	0°♁	
min. Earth dist.	743 Oct 22 j 06:55	12°♁42'33	0.51042 AU		748 Oct 25 j 18:02	0°♁	
opposition	743 Oct 30 j 00:13	9°♁49'18	0°00'-13	evening set	748 Nov 29 j 04:00	26°♁14'42	
greatest brilliancy	742 Dec 11 j 21:12	20°♁29'14	1.9m		748 Dec 04 j 00:01	0°♁	
asc. node	743 Oct 30 j 02:02	9°♁47'36			749 Jan 11 j 04:17	0°♁	
direct	743 Dec 03 j 10:24	2°♁19'47					
	744 Feb 23 j 22:32	0°♁		conjunction	749 Feb 02 j 10:52	17°♁35'43	-1°-4'-26
	744 Apr 18 j 05:06	0°♁		minimum elong	749 Feb 02 j 11:48	17°♁37'33	1°04'26
	744 Jun 07 j 14:15	0°♁			749 Feb 18 j 05:40	0°♁	
	744 Jul 25 j 18:07	0°♁		max. Earth dist.	749 Mar 13 j 18:03	18°♁16'40	2.38083 AU
evening set	744 Aug 23 j 23:01	18°♁52'23			749 Mar 29 j 01:44	0°♁	
	744 Sep 09 j 18:27	0°♁		morning rise	749 Apr 13 j 09:01	11°♁31'38	
max. Earth dist.	744 Sep 12 j 21:47	2°♁06'04	2.57686 AU		749 May 08 j 11:25	0°♁	
				asc. node	749 Jun 20 j 23:19	0°♁36'58	
conjunction	744 Oct 10 j 08:49	20°♁47'48	0°22'20		749 Jun 20 j 01:41	0°♁	
minimum elong	744 Oct 10 j 09:40	20°♁49'17	0°22'19		749 Aug 04 j 10:36	0°♁	
	744 Oct 23 j 13:51	0°♁			749 Sep 22 j 18:27	0°♁	
desc. node	744 Nov 16 j 19:23	17°♁14'22			749 Nov 21 j 08:02	0°♁	
morning rise	744 Nov 29 j 00:51	26°♁06'36		retrograde	750 Jan 08 j 23:48	11°♁22'51	
	744 Dec 04 j 08:22	0°♁		opposition	750 Feb 17 j 06:42	2°♁11'53	4°18'15
	745 Jan 13 j 11:37	0°♁		greatest brilliancy	750 Feb 17 j 20:56	1°♁57'54	-1.3m
	745 Feb 21 j 13:59	0°♁		min. Earth dist.	750 Feb 20 j 10:47	0°♁57'10	0.66092 AU
	745 Apr 01 j 09:46	0°♁			750 Feb 22 j 21:37	30°♁	
	745 May 10 j 22:20	0°♁		direct	750 Mar 30 j 16:17	22°♁10'22	
	745 Jun 21 j 11:37	0°♁			750 May 08 j 15:47	0°♁	
	745 Aug 06 j 13:12	0°♁			750 Jul 08 j 10:47	0°♁	
asc. node	745 Sep 15 j 23:56	21°♁17'21		desc. node	750 Jul 09 j 15:18	0°♁42'14	
	745 Oct 11 j 00:13	0°♁			750 Aug 24 j 08:07	0°♁	
retrograde	745 Oct 31 j 19:04	2°♁42'09			750 Oct 05 j 09:17	0°♁	
	745 Nov 20 j 11:29	30°♁			750 Nov 13 j 20:10	0°♁	
min. Earth dist.	745 Dec 06 j 03:15	24°♁33'59	0.62113 AU		750 Dec 22 j 02:09	0°♁	
opposition	745 Dec 10 j 16:30	22°♁45'03	3°15'36		751 Jan 29 j 06:14	0°♁	
greatest brilliancy	745 Dec 09 j 21:51	23°♁03'40	-1.5m	evening set	751 Feb 07 j 16:20	7°♁19'38	
direct	746 Jan 17 j 20:49	13°♁48'59			751 Mar 09 j 07:12	0°♁	
	746 Mar 19 j 05:20	0°♁					
	746 May 16 j 17:12	0°♁		conjunction	751 Apr 13 j 01:45	25°♁45'00	0°-16'-11
	746 Jul 06 j 07:12	0°♁		minimum elong	751 Apr 13 j 02:54	25°♁47'05	0°16'11
	746 Aug 22 j 01:09	0°♁			751 Apr 18 j 22:49	0°♁	
desc. node	746 Oct 04 j 18:08	29°♁57'48		asc. node	751 May 08 j 21:53	14°♁12'54	
	746 Oct 04 j 19:23	0°♁		max. Earth dist.	751 May 23 j 23:03	24°♁42'23	2.51186 AU
evening set	746 Oct 05 j 16:04	0°♁36'34			751 May 31 j 15:41	0°♁	
max. Earth dist.	746 Oct 20 j 11:04	11°♁10'56	2.45860 AU	morning rise	751 Jun 10 j 12:56	6°♁43'53	
	746 Nov 15 j 02:53	0°♁			751 Jul 15 j 13:44	0°♁	
					751 Aug 31 j 18:15	0°♁	
conjunction	746 Nov 28 j 08:39	9°♁55'54	0°-33'-18		751 Oct 20 j 20:41	0°♁	
minimum elong	746 Nov 28 j 06:51	9°♁52'30	0°33'18		751 Dec 16 j 23:04	0°♁	
	746 Dec 24 j 14:51	0°♁		retrograde	752 Feb 18 j 04:08	17°♁28'59	
morning rise	747 Jan 28 j 19:41	27°♁26'52		opposition	752 Mar 26 j 09:40	9°♁19'24	2°33'53
	747 Feb 01 j 01:43	0°♁		greatest brilliancy	752 Mar 27 j 08:01	8°♁58'25	-1.6m
greatest brilliancy	747 Feb 21 j 16:40	16°♁12'01	1.2m	min. Earth dist.	752 Apr 02 j 05:50	6°♁45'42	0.58326 AU
	747 Mar 11 j 07:43	0°♁			752 Apr 28 j 14:11	30°♁	
	747 Apr 19 j 06:10	0°♁		direct	752 May 05 j 23:37	29°♁38'12	
	747 May 29 j 19:06	0°♁			752 May 13 j 12:49	0°♁	

desc. node	752 May 26 j 14:26	2°♁12'56		conjunction	757 Aug 18 j 12:58	28°♁27'31	1°05'50
	752 Jul 27 j 08:49	0°♁		minimum elong	757 Aug 18 j 13:39	28°♁28'35	1°05'49
	752 Sep 11 j 00:50	0°♁			757 Aug 20 j 22:35	0°♁	
	752 Oct 21 j 19:31	0°♁		morning rise	757 Oct 02 j 02:07	27°♁22'54	
	752 Nov 29 j 18:56	0°♁			757 Oct 06 j 01:33	0°♁	
	753 Jan 07 j 13:18	0°♁			757 Nov 19 j 20:55	0°♁	
	753 Feb 16 j 04:48	0°♁			758 Jan 02 j 08:21	0°♁	
asc. node	753 Mar 25 j 20:21	27°♁25'33		desc. node	758 Jan 16 j 12:14	9°♁57'32	
	753 Mar 29 j 11:09	0°♁			758 Feb 13 j 16:14	0°♁	
evening set	753 Apr 09 j 12:21	7°♁48'16			758 Mar 27 j 07:26	0°♁	
	753 May 11 j 16:25	0°♁			758 May 08 j 06:38	0°♁	
					758 Jun 22 j 12:10	0°♁	
conjunction	753 Jun 02 j 19:42	14°♁51'48	0°38'58	retrograde	758 Sep 02 j 23:19	27°♁23'02	
minimum elong	753 Jun 02 j 18:12	14°♁49'19	0°38'57	min. Earth dist.	758 Oct 01 j 00:10	21°♁59'40	0.45834 AU
max. Earth dist.	753 Jun 23 j 06:45	28°♁21'07	2.61657 AU	greatest brilliancy	758 Oct 08 j 06:15	19°♁27'53	-2.4m
	753 Jun 25 j 19:19	0°♁		opposition	758 Oct 09 j 03:13	19°♁09'31	-2°-4'-20
morning rise	753 Jul 22 j 07:38	17°♁09'07		direct	758 Nov 10 j 18:22	12°♁29'38	
	753 Aug 11 j 10:59	0°♁		asc. node	758 Nov 15 j 17:02	12°♁39'17	
	753 Sep 28 j 07:07	0°♁			759 Jan 10 j 12:45	0°♁	
	753 Nov 16 j 11:46	0°♁			759 Mar 07 j 19:59	0°♁	
	754 Jan 07 j 19:01	0°♁			759 Apr 27 j 18:54	0°♁	
	754 Mar 17 j 13:34	0°♁			759 Jun 15 j 23:35	0°♁	
retrograde	754 Apr 12 j 06:06	3°♁37'20			759 Aug 02 j 16:45	0°♁	
desc. node	754 Apr 13 j 12:50	3°♁36'44		evening set	759 Aug 10 j 00:48	4°♁42'29	
	754 May 06 j 13:43	30°♁		max. Earth dist.	759 Sep 02 j 23:06	20°♁16'35	2.61227 AU
opposition	754 May 15 j 13:54	27°♁13'55	-1°-46'-7		759 Sep 17 j 15:31	0°♁	
greatest brilliancy	754 May 16 j 09:33	26°♁57'52	-2.3m	conjunction	759 Sep 25 j 08:02	5°♁08'53	0°39'18
min. Earth dist.	754 May 23 j 21:33	24°♁31'15	0.45642 AU	minimum elong	759 Sep 25 j 09:13	5°♁10'53	0°39'17
direct	754 Jun 21 j 03:21	19°♁26'04			759 Oct 31 j 15:11	0°♁	
	754 Aug 02 j 02:04	0°♁		morning rise	759 Nov 11 j 13:31	7°♁39'54	
	754 Sep 22 j 18:36	0°♁		desc. node	759 Dec 04 j 10:48	23°♁59'35	
	754 Nov 04 j 08:48	0°♁			759 Dec 12 j 17:54	0°♁	
	754 Dec 15 j 06:57	0°♁			760 Jan 22 j 07:17	0°♁	
	755 Jan 25 j 13:58	0°♁			760 Mar 01 j 20:01	0°♁	
asc. node	755 Feb 10 j 19:51	11°♁33'59			760 Apr 10 j 02:04	0°♁	
	755 Mar 09 j 04:45	0°♁			760 May 20 j 03:06	0°♁	
	755 Apr 22 j 11:29	0°♁			760 Jul 01 j 17:39	0°♁	
evening set	755 May 26 j 09:06	22°♁16'57			760 Aug 20 j 16:26	0°♁	
	755 Jun 07 j 06:51	0°♁		asc. node	760 Oct 02 j 16:39	15°♁58'41	
conjunction	755 Jul 13 j 15:21	23°♁20'14	1°06'16	retrograde	760 Oct 17 j 00:53	17°♁21'05	
minimum elong	755 Jul 13 j 14:39	23°♁19'07	1°06'16	min. Earth dist.	760 Nov 19 j 10:35	9°♁53'32	0.58342 AU
max. Earth dist.	755 Jul 17 j 21:43	26°♁03'37	2.66929 AU	opposition	760 Nov 25 j 10:03	7°♁32'25	2°18'04
	755 Jul 24 j 02:01	0°♁		greatest brilliancy	760 Nov 24 j 15:51	7°♁50'19	-1.7m
morning rise	755 Aug 28 j 00:00	22°♁13'30			760 Dec 20 j 10:17	30°♁	
	755 Sep 09 j 05:05	0°♁		direct	761 Jan 01 j 07:37	29°♁04'18	
	755 Oct 26 j 04:12	0°♁			761 Jan 13 j 18:18	0°♁	
	755 Dec 11 j 20:59	0°♁			761 Apr 01 j 13:59	0°♁	
	756 Jan 27 j 16:37	0°♁			761 May 25 j 09:56	0°♁	
desc. node	756 Feb 29 j 13:06	20°♁40'19			761 Jul 13 j 18:41	0°♁	
	756 Mar 15 j 18:36	0°♁			761 Aug 29 j 03:43	0°♁	
	756 May 09 j 08:50	0°♁		evening set	761 Sep 18 j 01:58	13°♁27'28	
retrograde	756 Jun 28 j 02:01	13°♁18'15		max. Earth dist.	761 Oct 03 j 11:19	24°♁05'30	2.50853 AU
opposition	756 Jul 28 j 09:47	8°♁14'38	-6°-53'-39		761 Oct 11 j 21:21	0°♁	
greatest brilliancy	756 Jul 28 j 06:49	8°♁16'36	-2.9m	desc. node	761 Oct 21 j 09:50	6°♁45'22	
min. Earth dist.	756 Jul 27 j 16:24	8°♁26'12	0.37368 AU				
direct	756 Aug 27 j 03:56	3°♁18'47		conjunction	761 Nov 07 j 14:09	19°♁09'11	0°-10'-43
	756 Nov 09 j 13:36	0°♁		minimum elong	761 Nov 07 j 13:36	19°♁08'11	0°10'44
asc. node	756 Dec 28 j 18:18	0°♁03'16		behind sun begin	761 Nov 06 j 20:33	18°♁37'09	
	756 Dec 28 j 16:15	0°♁		behind sun end	761 Nov 08 j 06:38	19°♁39'14	
	757 Feb 13 j 07:30	0°♁			761 Nov 22 j 08:19	0°♁	
	757 Apr 01 j 00:43	0°♁			762 Jan 01 j 01:19	0°♁	
	757 May 18 j 07:24	0°♁		morning rise	762 Jan 02 j 09:25	1°♁01'39	
evening set	757 Jul 03 j 17:17	29°♁18'08			762 Feb 08 j 17:10	0°♁	
	757 Jul 04 j 19:46	0°♁			762 Mar 19 j 03:20	0°♁	
max. Earth dist.	757 Aug 09 j 08:03	22°♁33'48	2.66751 AU		762 Apr 27 j 05:17	0°♁	
					762 Jun 06 j 23:25	0°♁	



	762 Jul 20 j 17:45	0°♄			767 Dec 09 j 02:51	0°♁
asc. node	762 Aug 20 j 16:12	19°♄17'32			768 Jan 16 j 13:34	0°♁
	762 Sep 08 j 14:26	0°♄			768 Feb 24 j 21:35	0°♁
retrograde	762 Nov 22 j 12:23	24°♄59'03		evening set	768 Mar 18 j 13:45	16°♁46'47
min. Earth dist.	762 Dec 30 j 11:33	15°♄58'18	0.66067 AU		768 Apr 05 j 20:25	0°♁
opposition	763 Jan 01 j 17:13	15°♄04'32	4°11'44	asc. node	768 Apr 11 j 12:45	4°♁03'05
greatest brilliancy	763 Jan 01 j 05:20	15°♄16'26	-1.3m			
direct	763 Feb 10 j 10:50	5°♄36'41		conjunction	768 May 15 j 11:45	27°♁44'12 0°20'29
	763 Apr 29 j 11:38	0°♄		minimum elong	768 May 15 j 10:41	27°♁42'23 0°20'27
	763 Jun 22 j 22:12	0°♄			768 May 18 j 19:14	0°♄
	763 Aug 09 j 19:23	0°♄		max. Earth dist.	768 Jun 12 j 10:44	16°♄36'07 2.58137 AU
desc. node	763 Sep 08 j 08:43	19°♄52'54			768 Jul 02 j 18:18	0°♄
	763 Sep 22 j 20:48	0°♄		morning rise	768 Jul 06 j 18:50	2°♄37'26
	763 Nov 03 j 03:12	0°♄			768 Aug 18 j 12:09	0°♄
evening set	763 Nov 06 j 10:16	2°♄27'59			768 Oct 05 j 22:29	0°♄
max. Earth dist.	763 Dec 07 j 03:05	25°♄52'37	2.38415 AU		768 Nov 25 j 21:49	0°♄
	763 Dec 12 j 10:43	0°♄			769 Jan 23 j 20:08	0°♄
				retrograde	769 Mar 19 j 13:44	13°♄50'32
conjunction	764 Jan 06 j 02:48	19°♄17'55	-1°-1'-7	opposition	769 Apr 23 j 17:31	6°♄38'53 0°19'38
minimum elong	764 Jan 06 j 00:56	19°♄14'17	1°01'08	greatest brilliancy	769 Apr 21 j 00:02	7°♄35'41 -2.0m
	764 Jan 19 j 16:38	0°♄		desc. node	769 Apr 30 j 06:04	4°♄21'11
	764 Feb 26 j 18:49	0°♄		min. Earth dist.	769 May 02 j 03:01	3°♄42'26 0.50909 AU
morning rise	764 Mar 15 j 13:40	13°♄51'18			769 May 14 j 13:50	30°♄
	764 Apr 05 j 14:36	0°♄		direct	769 Jun 01 j 10:32	27°♄49'46
	764 May 15 j 23:48	0°♄			769 Jun 19 j 17:04	0°♄
	764 Jun 27 j 16:14	0°♄			769 Aug 22 j 16:28	0°♄
asc. node	764 Jul 07 j 14:44	6°♄42'35			769 Oct 05 j 14:12	0°♄
	764 Aug 12 j 12:48	0°♄			769 Nov 14 j 22:59	0°♄
	764 Oct 02 j 20:07	0°♄			769 Dec 24 j 15:42	0°♄
retrograde	764 Dec 26 j 01:24	28°♄32'44			770 Feb 03 j 01:39	0°♄
opposition	765 Feb 03 j 19:43	19°♄05'11	4°32'02	asc. node	770 Feb 27 j 10:52	17°♄35'59
greatest brilliancy	765 Feb 04 j 02:39	18°♄58'18	-1.2m		770 Mar 16 j 23:55	0°♄
min. Earth dist.	765 Feb 05 j 11:25	18°♄25'49	0.67383 AU		770 Apr 29 j 18:13	0°♄
direct	765 Mar 17 j 00:52	9°♄07'43		evening set	770 May 09 j 10:53	6°♄29'08
	765 May 25 j 18:32	0°♄			770 Jun 14 j 05:14	0°♄
	765 Jul 18 j 02:26	0°♄				
desc. node	765 Jul 26 j 07:02	5°♄08'47		conjunction	770 Jun 28 j 13:35	9°♄17'18 0°59'07
	765 Sep 01 j 15:26	0°♄		minimum elong	770 Jun 28 j 12:24	9°♄15'22 0°59'07
	765 Oct 13 j 06:58	0°♄		max. Earth dist.	770 Jul 08 j 16:48	15°♄48'34 2.65512 AU
	765 Nov 21 j 14:40	0°♄			770 Jul 30 j 21:18	0°♄
	765 Dec 29 j 18:56	0°♄		morning rise	770 Aug 14 j 02:08	9°♄02'02
evening set	766 Jan 10 j 14:16	9°♄19'38			770 Sep 16 j 04:27	0°♄
	766 Feb 05 j 20:54	0°♄			770 Nov 02 j 18:28	0°♄
	766 Mar 16 j 18:44	0°♄			770 Dec 20 j 20:54	0°♄
					771 Feb 08 j 17:51	0°♄
conjunction	766 Mar 18 j 21:40	1°♄36'23	0°-40'-40	desc. node	771 Mar 18 j 04:41	20°♄34'18
minimum elong	766 Mar 19 j 00:31	1°♄41'46	0°40'39		771 Apr 07 j 01:25	0°♄
	766 Apr 26 j 06:32	0°♄		retrograde	771 May 27 j 11:46	12°♄47'55
max. Earth dist.	766 May 06 j 18:21	7°♄32'22	2.45954 AU	opposition	771 Jun 27 j 02:15	7°♄39'11 -5°-39'-32
morning rise	766 May 21 j 09:49	17°♄54'04		greatest brilliancy	771 Jun 28 j 05:24	7°♄20'23 -2.8m
asc. node	766 May 25 j 14:09	20°♄49'26		min. Earth dist.	771 Jul 01 j 15:22	6°♄23'56 0.38893 AU
	766 Jun 07 j 20:37	0°♄		direct	771 Jul 28 j 20:32	1°♄57'44
	766 Jul 22 j 19:50	0°♄			771 Oct 11 j 13:26	0°♄
	766 Sep 08 j 12:42	0°♄			771 Nov 27 j 00:22	0°♄
	766 Oct 30 j 13:19	0°♄			772 Jan 10 j 02:38	0°♄
	767 Jan 09 j 09:52	0°♄		asc. node	772 Jan 15 j 10:22	3°♄37'34
retrograde	767 Feb 01 j 12:14	2°♄56'01			772 Feb 23 j 11:43	0°♄
	767 Feb 23 j 00:13	30°♄			772 Apr 08 j 22:50	0°♄
opposition	767 Mar 11 j 17:15	24°♄18'29	3°27'58		772 May 25 j 12:05	0°♄
greatest brilliancy	767 Mar 12 j 15:25	23°♄57'12	-1.5m	evening set	772 Jun 18 j 22:44	15°♄34'17
min. Earth dist.	767 Mar 17 j 04:45	22°♄12'20	0.62097 AU		772 Jul 11 j 15:50	0°♄
direct	767 Apr 21 j 21:18	14°♄22'34		max. Earth dist.	772 Jul 31 j 07:43	12°♄30'01 2.67472 AU
desc. node	767 Jun 13 j 06:28	28°♄06'16				
	767 Jun 17 j 08:35	0°♄		conjunction	772 Aug 04 j 08:55	15°♄04'49 1°09'09
	767 Aug 08 j 23:12	0°♄		minimum elong	772 Aug 04 j 09:05	15°♄05'06 1°09'09
	767 Sep 21 j 12:14	0°♄			772 Aug 27 j 17:18	0°♄
	767 Oct 31 j 13:08	0°♄		morning rise	772 Sep 17 j 21:00	13°♄37'00

	772 Oct 13 j 01:56	0°♁			777 Sep 23 j 18:55	0°♁	
	772 Nov 27 j 10:52	0°♁		retrograde	777 Nov 08 j 20:45	11°♁20'50	
	773 Jan 10 j 20:26	0°♁		min. Earth dist.	777 Dec 15 j 04:35	2°♁52'45	0.63785 AU
desc. node	773 Feb 02 j 03:46	15°♁16'47		opposition	777 Dec 18 j 22:21	1°♁23'00	3°40'50
	773 Feb 23 j 12:29	0°♁		greatest brilliancy	777 Dec 18 j 05:17	1°♁40'04	-1.4m
	773 Apr 08 j 02:41	0°♁			777 Dec 22 j 10:05	30°♁	
	773 May 23 j 17:25	0°♁		direct	778 Jan 26 j 17:28	22°♁14'06	
	773 Jul 27 j 11:14	0°♁			778 Mar 07 j 01:51	0°♁	
retrograde	773 Aug 11 j 10:45	1°♁33'17			778 May 10 j 10:28	0°♁	
	773 Aug 26 j 04:11	30°♁			778 Jul 01 j 02:53	0°♁	
min. Earth dist.	773 Sep 07 j 01:01	26°♁53'59	0.41073 AU		778 Aug 17 j 05:41	0°♁	
greatest brilliancy	773 Sep 12 j 18:52	25°♁06'57	-2.6m	desc. node	778 Sep 25 j 00:26	26°♁25'08	
opposition	773 Sep 14 j 04:14	24°♁40'48	-4°-30'-51		778 Sep 30 j 02:34	0°♁	
direct	773 Oct 15 j 00:18	18°♁57'11		evening set	778 Oct 16 j 12:58	11°♁44'23	
	773 Nov 29 j 09:02	0°♁		max. Earth dist.	778 Nov 01 j 20:16	23°♁38'49	2.43003 AU
asc. node	773 Dec 02 j 10:16	1°♁18'31			778 Nov 10 j 09:53	0°♁	
	774 Jan 26 j 08:03	0°♁					
	774 Mar 17 j 18:15	0°♁		conjunction	778 Dec 11 j 11:59	23°♁33'24	0°-45'-23
	774 May 05 j 18:48	0°♁		minimum elong	778 Dec 11 j 09:39	23°♁28'56	0°45'24
	774 Jun 23 j 03:35	0°♁			778 Dec 19 j 20:27	0°♁	
evening set	774 Jul 26 j 11:54	21°♁01'10			779 Jan 27 j 05:29	0°♁	
	774 Aug 09 j 13:23	0°♁		morning rise	779 Feb 14 j 07:41	14°♁14'13	
max. Earth dist.	774 Aug 23 j 23:51	9°♁18'36	2.64003 AU		779 Mar 06 j 09:53	0°♁	
					779 Apr 14 j 06:50	0°♁	
conjunction	774 Sep 10 j 05:58	20°♁34'05	0°52'36		779 May 24 j 17:10	0°♁	
minimum elong	774 Sep 10 j 07:08	20°♁36'00	0°52'36		779 Jul 06 j 14:39	0°♁	
	774 Sep 24 j 12:32	0°♁		asc. node	779 Jul 25 j 07:22	12°♁23'12	
morning rise	774 Oct 25 j 22:06	21°♁09'55			779 Aug 22 j 07:18	0°♁	
	774 Nov 07 j 18:24	0°♁			779 Oct 16 j 12:43	0°♁	
	774 Dec 20 j 07:22	0°♁		retrograde	779 Dec 13 j 13:09	15°♁49'50	
desc. node	774 Dec 21 j 02:54	0°♁35'05		opposition	780 Jan 22 j 14:59	6°♁08'57	4°33'40
	775 Jan 30 j 09:35	0°♁		greatest brilliancy	780 Jan 22 j 14:10	6°♁09'45	-1.2m
	775 Mar 11 j 12:06	0°♁		min. Earth dist.	780 Jan 22 j 18:01	6°♁05'55	0.67670 AU
	775 Apr 20 j 09:24	0°♁			780 Feb 08 j 10:56	30°♁	
	775 May 31 j 08:41	0°♁		direct	780 Mar 03 j 10:22	26°♁19'50	
	775 Jul 15 j 06:00	0°♁			780 Mar 29 j 11:39	0°♁	
	775 Sep 26 j 11:55	0°♁			780 Jun 06 j 11:46	0°♁	
retrograde	775 Oct 02 j 00:40	0°♁13'06			780 Jul 26 j 18:03	0°♁	
	775 Oct 07 j 11:58	30°♁		desc. node	780 Aug 11 j 23:53	10°♁34'01	
asc. node	775 Oct 20 j 08:36	27°♁46'57			780 Sep 09 j 12:25	0°♁	
min. Earth dist.	775 Nov 02 j 08:37	23°♁31'18	0.53814 AU		780 Oct 20 j 22:31	0°♁	
opposition	775 Nov 09 j 13:55	20°♁45'27	0°58'03		780 Nov 29 j 05:01	0°♁	
greatest brilliancy	775 Nov 09 j 03:44	20°♁55'13	-1.9m	evening set	780 Dec 13 j 21:05	11°♁28'26	
direct	775 Dec 14 j 23:09	12°♁52'35			781 Jan 06 j 08:49	0°♁	
	776 Feb 14 j 07:52	0°♁			781 Feb 13 j 09:45	0°♁	
	776 Apr 12 j 02:08	0°♁					
	776 Jun 02 j 10:48	0°♁		conjunction	781 Feb 18 j 22:33	4°♁19'39	0°-59'-19
	776 Jul 20 j 23:57	0°♁		minimum elong	781 Feb 19 j 01:02	4°♁24'29	0°59'19
evening set	776 Sep 01 j 20:04	27°♁47'57			781 Mar 24 j 05:39	0°♁	
	776 Sep 05 j 03:23	0°♁		max. Earth dist.	781 Apr 10 j 04:41	12°♁46'05	2.40611 AU
max. Earth dist.	776 Sep 19 j 21:08	9°♁55'20	2.55429 AU	morning rise	781 Apr 28 j 05:05	26°♁03'42	
	776 Oct 18 j 22:33	0°♁			781 May 03 j 15:00	0°♁	
				asc. node	781 Jun 11 j 05:13	27°♁17'14	
conjunction	776 Oct 20 j 02:58	0°♁49'58	0°10'59		781 Jun 15 j 03:57	0°♁	
minimum elong	776 Oct 20 j 03:26	0°♁50'47	0°10'58		781 Jul 30 j 07:14	0°♁	
behind sun begin	776 Oct 19 j 11:47	0°♁23'16			781 Sep 16 j 20:05	0°♁	
behind sun end	776 Oct 20 j 19:06	1°♁18'20			781 Nov 11 j 08:39	0°♁	
desc. node	776 Nov 07 j 01:42	13°♁35'50		retrograde	782 Jan 17 j 06:06	19°♁21'10	
	776 Nov 29 j 14:45	0°♁		opposition	782 Feb 25 j 05:34	10°♁20'56	4°03'55
morning rise	776 Dec 10 j 14:23	8°♁07'56		greatest brilliancy	782 Feb 25 j 23:15	10°♁03'40	-1.3m
	777 Jan 08 j 14:36	0°♁		min. Earth dist.	782 Mar 01 j 05:44	8°♁47'11	0.64957 AU
	777 Feb 16 j 13:01	0°♁		direct	782 Apr 07 j 15:36	0°♁19'34	
	777 Mar 27 j 04:46	0°♁		desc. node	782 Jun 29 j 22:48	29°♁12'29	
	777 May 05 j 12:11	0°♁			782 Jul 01 j 08:48	0°♁	
	777 Jun 15 j 15:25	0°♁			782 Aug 18 j 16:14	0°♁	
	777 Jul 30 j 12:17	0°♁			782 Sep 30 j 04:06	0°♁	
asc. node	777 Sep 06 j 07:37	21°♁44'05			782 Nov 08 j 19:25	0°♁	

	782 Dec 17 j 03:29	0°♊			787 Oct 21 j 06:01	0°♎		
	783 Jan 24 j 09:00	0°♋			787 Dec 06 j 09:42	0°♌		
evening set	783 Feb 22 j 19:17	22°♋40'36			788 Jan 21 j 03:52	0°♍		
	783 Mar 04 j 11:21	0°♌		desc. node	788 Feb 19 j 19:43	19°♍25'27		
	783 Apr 14 j 04:06	0°♍			788 Mar 07 j 02:29	0°♎		
					788 Apr 24 j 02:20	0°♏		
conjunction	783 Apr 25 j 23:06	8°♍25'39	0°-2'-2		788 Jun 30 j 03:57	0°♐		
minimum elong	783 Apr 25 j 23:14	8°♍25'55	0°02'03	retrograde	788 Jul 15 j 07:35	1°♐31'21		
behind sun begin	783 Apr 24 j 22:46	7°♍42'30			788 Jul 30 j 14:35	30°♑		
behind sun end	783 Apr 26 j 23:42	9°♍09'17		min. Earth dist.	788 Aug 11 j 20:20	27°♑02'29	0.37910 AU	
asc. node	783 Apr 29 j 04:12	10°♍42'14		opposition	788 Aug 15 j 12:56	26°♑01'33	-6°-31'-57	
	783 May 26 j 21:47	0°♎		greatest brilliancy	788 Aug 14 j 15:37	26°♑16'13	-2.8m	
max. Earth dist.	783 Jun 01 j 02:46	3°♎33'21	2.53843 AU	direct	788 Sep 14 j 01:21	21°♑01'54		
morning rise	783 Jun 20 j 23:23	16°♎55'54			788 Oct 23 j 17:21	0°♐		
	783 Jul 10 j 18:42	0°♏		asc. node	788 Dec 19 j 01:27	29°♐22'14		
	783 Aug 26 j 17:36	0°♑			788 Dec 20 j 02:55	0°♑		
	783 Oct 15 j 01:17	0°♒			789 Feb 06 j 21:40	0°♓		
	783 Dec 08 j 00:52	0°♓			789 Mar 26 j 14:08	0°♑		
retrograde	784 Feb 28 j 11:14	26°♓49'53			789 May 13 j 08:50	0°♒		
opposition	784 Apr 05 j 01:40	18°♓58'46	1°52'22		789 Jun 30 j 03:30	0°♓		
greatest brilliancy	784 Apr 05 j 20:50	18°♓41'07	-1.8m	evening set	789 Jul 12 j 01:05	7°♓30'45		
min. Earth dist.	784 Apr 12 j 14:17	16°♓12'54	0.55871 AU	max. Earth dist.	789 Aug 14 j 15:35	28°♓54'25	2.65986 AU	
direct	784 May 15 j 03:53	9°♓31'20			789 Aug 16 j 08:27	0°♑		
desc. node	784 May 16 j 21:22	9°♓32'31						
	784 Jul 18 j 04:29	0°♒		conjunction	789 Aug 26 j 17:22	6°♑40'51	1°02'05	
	784 Sep 04 j 09:45	0°♓		minimum elong	789 Aug 26 j 18:16	6°♑42'19	1°02'05	
	784 Oct 15 j 22:59	0°♑			789 Oct 01 j 09:48	0°♒		
	784 Nov 24 j 07:17	0°♓		morning rise	789 Oct 10 j 12:38	6°♒03'03		
	785 Jan 02 j 07:39	0°♋			789 Nov 15 j 00:03	0°♓		
	785 Feb 11 j 04:04	0°♌			789 Dec 28 j 02:34	0°♋		
asc. node	785 Mar 16 j 04:08	24°♌00'19		desc. node	790 Jan 06 j 18:31	6°♋51'27		
	785 Mar 24 j 14:21	0°♍			790 Feb 07 j 22:25	0°♌		
evening set	785 Apr 20 j 21:30	19°♍02'50			790 Mar 20 j 21:37	0°♍		
	785 May 06 j 22:49	0°♎			790 Apr 30 j 21:04	0°♋		
					790 Jun 12 j 18:48	0°♌		
conjunction	785 Jun 12 j 12:47	24°♎22'14	0°47'37		790 Aug 03 j 20:09	0°♍		
minimum elong	785 Jun 12 j 11:17	24°♎19'47	0°47'37	retrograde	790 Sep 14 j 03:35	10°♍27'56		
	785 Jun 21 j 03:14	0°♏		min. Earth dist.	790 Oct 13 j 08:06	4°♍36'27	0.48717 AU	
max. Earth dist.	785 Jun 29 j 05:22	5°♏15'44	2.63244 AU	opposition	790 Oct 21 j 08:50	1°♍41'03	0°-49'-45	
morning rise	785 Jul 30 j 19:22	25°♏34'38		greatest brilliancy	790 Oct 20 j 23:47	1°♍49'17	-2.2m	
	785 Aug 06 j 17:58	0°♑			790 Oct 26 j 02:39	30°♑		
	785 Sep 23 j 08:01	0°♒		asc. node	790 Nov 06 j 01:12	26°♑44'26		
	785 Nov 10 j 19:34	0°♓		direct	790 Nov 24 j 00:03	24°♑32'41		
	785 Dec 31 j 03:03	0°♋			790 Dec 25 j 05:36	0°♌		
desc. node	786 Feb 25 j 18:41	0°♍			791 Feb 28 j 13:58	0°♎		
retrograde	786 Apr 03 j 20:25	13°♍41'17			791 Apr 22 j 05:05	0°♏		
opposition	786 Apr 27 j 07:57	16°♍47'13			791 Jun 11 j 01:19	0°♑		
greatest brilliancy	786 May 29 j 14:40	10°♍52'34	-3°-10'-37		791 Jul 29 j 01:05	0°♒		
min. Earth dist.	786 May 30 j 20:02	10°♍29'45	-2.5m	evening set	791 Aug 18 j 11:45	13°♒09'44		
direct	786 Jun 06 j 04:36	8°♍31'56	0.42869 AU	max. Earth dist.	791 Sep 09 j 02:00	27°♒20'56	2.59362 AU	
	786 Jul 03 j 13:50	3°♍48'10			791 Sep 13 j 01:35	0°♓		
	786 Sep 12 j 10:47	0°♑						
	786 Oct 27 j 19:20	0°♒		conjunction	791 Oct 04 j 07:50	14°♓20'26	0°29'56	
	786 Dec 08 j 20:56	0°♋		minimum elong	791 Oct 04 j 08:53	14°♓22'13	0°29'55	
	787 Jan 19 j 20:42	0°♌			791 Oct 26 j 23:57	0°♌		
asc. node	787 Feb 01 j 02:46	8°♌37'55		morning rise	791 Nov 21 j 19:01	18°♌17'24		
	787 Mar 03 j 22:44	0°♍		desc. node	791 Nov 24 j 18:22	20°♌25'49		
	787 Apr 17 j 13:27	0°♎			791 Dec 07 j 22:47	0°♍		
	787 Jun 02 j 13:45	0°♏			792 Jan 17 j 07:01	0°♎		
evening set	787 Jun 04 j 13:18	1°♏16'32			792 Feb 25 j 13:53	0°♏		
	787 Jul 19 j 11:07	0°♑			792 Apr 04 j 13:35	0°♋		
					792 May 14 j 06:12	0°♌		
conjunction	787 Jul 22 j 00:36	1°♑37'56	1°08'30		792 Jun 25 j 02:40	0°♍		
minimum elong	787 Jul 22 j 00:14	1°♑37'20	1°08'30		792 Aug 11 j 06:15	0°♎		
max. Earth dist.	787 Jul 23 j 05:05	2°♑23'17	2.67345 AU	asc. node	792 Sep 22 j 23:27	20°♎25'04		
morning rise	787 Sep 04 j 23:00	0°♒16'03		retrograde	792 Oct 25 j 14:34	26°♎44'19		
	787 Sep 04 j 12:57	0°♓		min. Earth dist.	792 Nov 29 j 02:45	18°♎53'38	0.60549 AU	

greatest brilliancy	792 Dec 03 j 12:20	17°II08'58	-1.6m	evening set	798 Jan 26 j 12:16	25°≈40'49	
opposition	792 Dec 04 j 07:33	16°II49'54	2°53'58		798 Feb 01 j 00:43	0°✠	
direct	793 Jan 10 j 23:08	8°II05'22			798 Mar 11 j 23:29	0°Υ	
	793 Mar 24 j 12:54	0°☾					
	793 May 19 j 18:10	0°Ω		conjunction	798 Apr 02 j 12:19	16°Υ06'53	0°-26'-56
	793 Jul 08 j 19:57	0°♎		minimum elong	798 Apr 02 j 14:18	16°Υ10'33	0°26'56
	793 Aug 24 j 11:08	0°♊			798 Apr 21 j 12:08	0°♄	
evening set	793 Sep 27 j 20:44	23°♁24'24		asc. node	798 May 15 j 21:08	17°♄21'33	
	793 Oct 07 j 06:28	0°♍		max. Earth dist.	798 May 17 j 02:11	18°♄12'28	2.48903 AU
desc. node	793 Oct 11 j 17:19	3°♍09'01		morning rise	798 Jun 02 j 04:13	29°♄22'05	
max. Earth dist.	793 Oct 12 j 10:58	3°♍40'22	2.48141 AU		798 Jun 03 j 02:18	0°II	
	793 Nov 17 j 16:30	0°♁			798 Jul 17 j 23:08	0°☾	
					798 Sep 03 j 06:53	0°Ω	
conjunction	793 Nov 18 j 23:48	0°♁58'08	0°-23'-40		798 Oct 24 j 00:07	0°♎	
minimum elong	793 Nov 18 j 22:32	0°♁55'47	0°23'40		798 Dec 23 j 08:26	0°♊	
	793 Dec 27 j 07:26	0°♄		retrograde	799 Feb 10 j 18:33	11°♁33'36	
morning rise	794 Jan 16 j 19:01	15°♄52'36		opposition	799 Mar 20 j 11:58	3°♁10'45	2°58'50
	794 Feb 03 j 20:37	0°≈		greatest brilliancy	799 Mar 21 j 10:46	2°♁49'07	-1.6m
	794 Mar 14 j 03:59	0°✠		min. Earth dist.	799 Mar 26 j 18:25	0°♁48'16	0.60133 AU
	794 Apr 22 j 03:04	0°Υ			799 Mar 28 j 22:37	30°♎	
	794 Jun 01 j 16:28	0°♄		direct	799 Apr 30 j 10:14	23°♎21'31	
	794 Jul 14 j 23:38	0°II		desc. node	799 Jun 03 j 13:45	29°♎53'34	
asc. node	794 Aug 10 j 22:15	17°II18'13			799 Jun 03 j 21:07	0°♊	
	794 Sep 01 j 04:44	0°☾			799 Aug 02 j 00:40	0°♍	
	794 Nov 07 j 14:59	0°Ω			799 Sep 15 j 16:33	0°♁	
retrograde	794 Nov 30 j 05:19	2°Ω59'32			799 Oct 26 j 03:29	0°♄	
	794 Dec 21 j 09:30	30°♎☾			799 Dec 03 j 22:16	0°≈	
min. Earth dist.	795 Jan 08 j 01:16	23°☾42'08	0.66928 AU		800 Jan 11 j 12:23	0°✠	
opposition	795 Jan 09 j 10:33	23°☾08'49	4°23'31		800 Feb 19 j 23:25	0°Υ	
greatest brilliancy	795 Jan 09 j 02:22	23°☾17'01	-1.3m	evening set	800 Mar 31 j 07:44	29°Υ29'18	
direct	795 Feb 18 j 14:53	13°☾32'09		asc. node	800 Apr 01 j 19:28	0°♄33'04	
	795 Apr 20 j 19:19	0°Ω			800 Apr 01 j 00:56	0°♄	
	795 Jun 17 j 03:39	0°♎			800 May 14 j 01:54	0°II	
	795 Aug 04 j 18:07	0°♊					
desc. node	795 Aug 29 j 15:38	16°♁34'01		conjunction	800 May 26 j 03:41	8°II10'23	0°31'41
	795 Sep 18 j 01:31	0°♍		minimum elong	800 May 26 j 02:17	8°II08'02	0°31'39
	795 Oct 29 j 09:31	0°♁		max. Earth dist.	800 Jun 18 j 21:36	23°II58'44	2.60182 AU
evening set	795 Nov 19 j 10:17	15°♁54'10			800 Jun 28 j 01:45	0°☾	
	795 Dec 07 j 17:01	0°♄		morning rise	800 Jul 15 j 19:16	11°☾30'53	
	796 Jan 14 j 22:13	0°≈			800 Aug 13 j 17:17	0°Ω	
					800 Sep 30 j 18:07	0°♎	
conjunction	796 Jan 21 j 19:12	5°≈25'53	-1°-4'-51		800 Nov 19 j 13:52	0°♊	
minimum elong	796 Jan 21 j 18:44	5°≈24'58	1°04'53		801 Jan 12 j 21:51	0°♍	
max. Earth dist.	796 Jan 22 j 06:10	5°≈47'33	2.37142 AU	retrograde	801 Apr 01 j 11:41	25°♍07'05	
	796 Feb 21 j 23:37	0°✠		desc. node	801 Apr 20 j 11:57	22°♍51'16	
	796 Mar 31 j 18:46	0°Υ		opposition	801 May 05 j 15:42	18°♍21'09	0°-48'-11
morning rise	796 Apr 01 j 03:28	0°Υ16'31		greatest brilliancy	801 May 06 j 01:26	18°♍12'55	-2.2m
	796 May 11 j 02:48	0°♄		min. Earth dist.	801 May 14 j 03:22	15°♍28'55	0.48001 AU
	796 Jun 22 j 16:08	0°II		direct	801 Jun 12 j 06:47	10°♍02'40	
asc. node	796 Jun 27 j 22:23	3°II34'55			801 Aug 12 j 04:00	0°♁	
	796 Aug 07 j 03:18	0°☾			801 Sep 28 j 04:48	0°♄	
	796 Sep 26 j 01:21	0°Ω			801 Nov 08 j 15:05	0°≈	
	796 Nov 29 j 03:39	0°♎			801 Dec 18 j 21:43	0°✠	
retrograde	797 Jan 02 j 22:56	6°♎20'13			802 Jan 28 j 17:29	0°Υ	
	797 Feb 03 j 18:30	30°♎Ω		asc. node	802 Feb 17 j 19:13	14°Υ24'27	
opposition	797 Feb 11 j 12:04	27°Ω01'21	4°25'21		802 Mar 11 j 23:04	0°♄	
greatest brilliancy	797 Feb 11 j 23:09	26°Ω50'26	-1.3m		802 Apr 24 j 22:43	0°II	
min. Earth dist.	797 Feb 14 j 00:11	26°Ω02'06	0.66805 AU	evening set	802 May 19 j 06:20	16°II06'48	
direct	797 Mar 24 j 20:57	17°Ω00'58			802 Jun 09 j 13:09	0°☾	
	797 May 16 j 02:42	0°♎					
	797 Jul 12 j 00:43	0°♊		conjunction	802 Jul 07 j 06:34	17°☾51'53	1°03'46
desc. node	797 Jul 16 j 14:29	2°♁46'59		minimum elong	802 Jul 07 j 05:38	17°☾50'24	1°03'47
	797 Aug 27 j 08:46	0°♍		max. Earth dist.	802 Jul 14 j 02:45	22°☾14'39	2.66396 AU
	797 Oct 08 j 06:38	0°♁			802 Jul 26 j 06:19	0°Ω	
	797 Nov 16 j 16:48	0°♄		morning rise	802 Aug 22 j 02:13	17°Ω04'16	
greatest brilliancy	797 Dec 13 j 14:13	21°♄03'48	1.2m		802 Sep 11 j 10:45	0°♎	
	797 Dec 24 j 22:04	0°≈			802 Oct 28 j 15:56	0°♊	

	802 Dec 14 j 22:01	0°♄		direct	807 Dec 25 j 16:49	22°♄46'51	
	803 Jan 31 j 19:54	0°♂			808 Jan 31 j 20:44	0°♄	
desc. node	803 Mar 08 j 11:48	21°♂26'39			808 Apr 05 j 10:54	0°♄	
	803 Mar 23 j 12:06	0°♄			808 May 28 j 03:29	0°♄	
	803 Jun 13 j 05:16	0°♄			808 Jul 16 j 04:17	0°♄	
retrograde	803 Jun 14 j 22:30	0°♄01'09			808 Aug 31 j 11:58	0°♄	
	803 Jun 16 j 15:39	30°♄		evening set	808 Sep 10 j 23:05	7°♄00'53	
opposition	803 Jul 15 j 00:48	25°♄03'13	-6°-37'-27	max. Earth dist.	808 Sep 27 j 06:37	18°♄08'20	2.52972 AU
greatest brilliancy	803 Jul 15 j 13:48	24°♄54'33	-2.8m		808 Oct 14 j 07:32	0°♄	
min. Earth dist.	803 Jul 16 j 19:56	24°♄34'30	0.37662 AU	desc. node	808 Oct 28 j 08:47	9°♄58'25	
direct	803 Aug 14 j 10:53	19°♄54'56					
	803 Sep 24 j 19:08	0°♄		conjunction	808 Oct 30 j 08:38	11°♄24'07	0°-1'-15
	803 Nov 17 j 23:13	0°♄		minimum elong	808 Oct 30 j 08:32	11°♄23'57	0°01'16
	804 Jan 03 j 05:56	0°♄		behind sun begin	808 Oct 29 j 11:02	10°♄45'26	
asc. node	804 Jan 05 j 17:41	1°♄38'34		behind sun end	808 Oct 31 j 06:02	12°♄02'30	
	804 Feb 17 j 16:56	0°♄			808 Nov 24 j 21:43	0°♄	
	804 Apr 03 j 18:42	0°♄		morning rise	808 Dec 23 j 01:05	21°♄04'09	
	804 May 20 j 16:27	0°♄			809 Jan 03 j 18:26	0°♄	
evening set	804 Jun 27 j 10:56	23°♄56'13			809 Feb 11 j 13:27	0°♄	
	804 Jul 07 j 00:39	0°♄			809 Mar 22 j 01:43	0°♄	
max. Earth dist.	804 Aug 05 j 14:04	18°♄46'58	2.67185 AU		809 Apr 30 j 05:12	0°♄	
					809 Jun 10 j 01:25	0°♄	
conjunction	804 Aug 12 j 11:32	23°♄11'05	1°07'41		809 Jul 24 j 02:54	0°♄	
minimum elong	804 Aug 12 j 12:01	23°♄11'51	1°07'41	asc. node	809 Aug 27 j 15:29	20°♄58'42	
	804 Aug 23 j 02:58	0°♄			809 Sep 13 j 10:20	0°♄	
morning rise	804 Sep 25 j 22:49	21°♄52'20		retrograde	809 Nov 16 j 18:13	19°♄42'20	
	804 Oct 08 j 08:54	0°♄		min. Earth dist.	809 Dec 24 j 00:46	10°♄55'29	0.65168 AU
	804 Nov 22 j 10:43	0°♄		opposition	809 Dec 26 j 22:17	9°♄45'52	4°00'41
	805 Jan 05 j 07:46	0°♄		greatest brilliancy	809 Dec 26 j 07:50	10°♄00'21	-1.3m
desc. node	805 Jan 23 j 11:35	12°♄37'52		direct	810 Feb 04 j 06:32	0°♄	
	805 Feb 17 j 04:52	0°♄			810 May 03 j 13:28	0°♄	
	805 Mar 31 j 13:16	0°♄			810 Jun 25 j 18:14	0°♄	
	805 May 13 j 15:54	0°♄			810 Aug 12 j 08:40	0°♄	
	805 Jul 01 j 02:54	0°♄		desc. node	810 Sep 15 j 07:39	22°♄56'53	
retrograde	805 Aug 24 j 15:59	17°♄09'07			810 Sep 25 j 09:37	0°♄	
min. Earth dist.	805 Sep 20 j 22:29	12°♄07'22	0.43579 AU	evening set	810 Oct 28 j 00:50	23°♄32'58	
opposition	805 Sep 28 j 20:17	9°♄28'57	-3°-6'-12		810 Nov 05 j 17:31	0°♄	
greatest brilliancy	805 Sep 27 j 15:55	9°♄52'46	-2.5m	max. Earth dist.	810 Nov 18 j 08:34	9°♄29'04	2.40306 AU
direct	805 Oct 30 j 15:27	3°♄14'02			810 Dec 15 j 03:07	0°♄	
asc. node	805 Nov 22 j 16:02	6°♄25'34					
	806 Jan 17 j 08:01	0°♄		conjunction	810 Dec 25 j 12:44	8°♄05'19	0°-55'-28
	806 Mar 11 j 11:45	0°♄		minimum elong	810 Dec 25 j 10:24	8°♄00'46	0°55'28
	806 Apr 30 j 12:16	0°♄			811 Jan 22 j 10:37	0°♄	
	806 Jun 18 j 08:02	0°♄			811 Mar 01 j 13:22	0°♄	
evening set	806 Aug 03 j 19:10	29°♄16'29		morning rise	811 Mar 03 j 07:26	1°♄22'17	
	806 Aug 04 j 22:22	0°♄			811 Apr 09 j 08:50	0°♄	
max. Earth dist.	806 Aug 29 j 17:24	16°♄01'44	2.62568 AU		811 May 19 j 17:13	0°♄	
					811 Jul 01 j 09:42	0°♄	
conjunction	806 Sep 18 j 18:35	29°♄14'14	0°45'21	asc. node	811 Jul 15 j 13:47	9°♄30'34	
minimum elong	806 Sep 18 j 19:48	29°♄16'15	0°45'20		811 Aug 16 j 11:26	0°♄	
	806 Sep 19 j 22:06	0°♄			811 Oct 07 j 21:53	0°♄	
	806 Nov 03 j 01:30	0°♄		retrograde	811 Dec 21 j 06:22	23°♄35'25	
morning rise	806 Nov 04 j 04:56	0°♄47'38		opposition	812 Jan 30 j 05:00	14°♄01'37	4°34'03
desc. node	806 Dec 11 j 10:04	27°♄07'53		greatest brilliancy	812 Jan 30 j 08:33	13°♄58'06	-1.2m
	806 Dec 15 j 09:29	0°♄		min. Earth dist.	812 Jan 31 j 04:44	13°♄38'03	0.67638 AU
	807 Jan 25 j 05:03	0°♄		direct	812 Mar 11 j 06:40	4°♄07'20	
	807 Mar 05 j 23:53	0°♄			812 May 30 j 06:17	0°♄	
	807 Apr 14 j 11:41	0°♄			812 Jul 21 j 04:54	0°♄	
	807 May 24 j 20:04	0°♄		desc. node	812 Aug 02 j 06:11	7°♄41'09	
	807 Jul 07 j 02:24	0°♄			812 Sep 04 j 11:14	0°♄	
	807 Aug 29 j 10:19	0°♄			812 Oct 16 j 01:34	0°♄	
asc. node	807 Oct 10 j 15:45	10°♄41'00			812 Nov 24 j 09:34	0°♄	
retrograde	807 Oct 11 j 08:55	10°♄41'13		evening set	812 Dec 29 j 07:03	27°♄24'14	
min. Earth dist.	807 Nov 12 j 20:28	3°♄33'46	0.56396 AU		813 Jan 01 j 13:53	0°♄	
opposition	807 Nov 19 j 10:15	1°♄00'16	1°47'28		813 Feb 08 j 14:57	0°♄	
greatest brilliancy	807 Nov 18 j 18:11	1°♄15'55	-1.8m				
	807 Nov 22 j 00:46	30°♄		conjunction	813 Mar 06 j 22:59	20°♄26'53	0°-49'-54

minimum elong	813 Mar 07 j 02:03	20° $\Upsilon$ 32'46	0°49'53	desc. node	818 Mar 25 j 03:34	19° $\Upsilon$ 04'05	
	813 Mar 19 j 11:01	0° $\Upsilon$			818 Apr 29 j 03:13	0° $\Upsilon$	
max. Earth dist.	813 Apr 27 j 03:18	28° $\Upsilon$ 45'20	2.43523 AU	retrograde	818 May 13 j 16:53	1° $\Upsilon$ 16'14	
	813 Apr 28 j 20:26	0° $\Upsilon$			818 May 28 j 02:16	30° $\Upsilon$	
morning rise	813 May 11 j 18:04	9° $\Upsilon$ 16'52		opposition	818 Jun 14 j 00:43	25° $\Upsilon$ 49'09	-4°-37'-44
asc. node	813 Jun 01 j 12:54	23° $\Upsilon$ 54'52		greatest brilliancy	818 Jun 15 j 08:45	25° $\Upsilon$ 25'47	-2.7m
	813 Jun 10 j 08:19	0° $\Upsilon$		min. Earth dist.	818 Jun 20 j 06:36	24° $\Upsilon$ 00'35	0.40454 AU
	813 Jul 25 j 07:27	0° $\Upsilon$		direct	818 Jul 17 j 04:41	19° $\Upsilon$ 31'46	
	813 Sep 11 j 05:57	0° $\Upsilon$			818 Aug 27 j 19:58	0° $\Upsilon$	
	813 Nov 03 j 08:19	0° $\Upsilon$			818 Oct 18 j 22:14	0° $\Upsilon$	
retrograde	814 Jan 25 j 19:47	27° $\Upsilon$ 29'47			818 Dec 01 j 21:21	0° $\Upsilon$	
opposition	814 Mar 05 j 10:11	18° $\Upsilon$ 41'37	3°44'44		819 Jan 13 j 20:17	0° $\Upsilon$	
greatest brilliancy	814 Mar 06 j 06:41	18° $\Upsilon$ 21'48	-1.4m	asc. node	819 Jan 22 j 09:22	5° $\Upsilon$ 55'32	
min. Earth dist.	814 Mar 10 j 06:39	16° $\Upsilon$ 49'05	0.63489 AU		819 Feb 26 j 13:00	0° $\Upsilon$	
direct	814 Apr 15 j 18:19	8° $\Upsilon$ 42'18			819 Apr 12 j 13:11	0° $\Upsilon$	
desc. node	814 Jun 20 j 05:18	28° $\Upsilon$ 29'32			819 May 28 j 19:38	0° $\Upsilon$	
	814 Jun 23 j 04:06	0° $\Upsilon$		evening set	819 Jun 13 j 11:27	10° $\Upsilon$ 01'24	
	814 Aug 12 j 15:44	0° $\Upsilon$			819 Jul 14 j 20:05	0° $\Upsilon$	
	814 Sep 24 j 18:04	0° $\Upsilon$		max. Earth dist.	819 Jul 28 j 12:04	8° $\Upsilon$ 41'43	2.67527 AU
	814 Nov 03 j 15:14	0° $\Upsilon$					
	814 Dec 12 j 02:33	0° $\Upsilon$		conjunction	819 Jul 30 j 06:59	9° $\Upsilon$ 50'01	1°09'21
	815 Jan 19 j 10:26	0° $\Upsilon$		minimum elong	819 Jul 30 j 06:56	9° $\Upsilon$ 49'55	1°09'22
	815 Feb 27 j 15:01	0° $\Upsilon$			819 Aug 30 j 21:37	0° $\Upsilon$	
evening set	815 Mar 09 j 03:46	7° $\Upsilon$ 07'53		morning rise	819 Sep 12 j 22:04	8° $\Upsilon$ 20'48	
	815 Apr 09 j 09:57	0° $\Upsilon$			819 Oct 16 j 10:13	0° $\Upsilon$	
asc. node	815 Apr 19 j 12:02	7° $\Upsilon$ 12'24			819 Dec 01 j 03:15	0° $\Upsilon$	
					820 Jan 15 j 02:11	0° $\Upsilon$	
conjunction	815 May 07 j 22:03	20° $\Upsilon$ 08'41	0°11'21	desc. node	820 Feb 10 j 02:49	17° $\Upsilon$ 31'25	
minimum elong	815 May 07 j 21:24	20° $\Upsilon$ 07'33	0°11'21		820 Feb 28 j 14:53	0° $\Upsilon$	
behind sun begin	815 May 07 j 04:43	19° $\Upsilon$ 38'32			820 Apr 13 j 15:13	0° $\Upsilon$	
behind sun end	815 May 08 j 14:06	20° $\Upsilon$ 36'32			820 Jun 01 j 20:27	0° $\Upsilon$	
	815 May 22 j 04:59	0° $\Upsilon$		retrograde	820 Jul 31 j 06:27	19° $\Upsilon$ 17'29	
max. Earth dist.	815 Jun 08 j 09:23	11° $\Upsilon$ 38'58	2.56308 AU	min. Earth dist.	820 Aug 26 j 20:07	14° $\Upsilon$ 49'03	0.39369 AU
morning rise	815 Jun 30 j 18:01	26° $\Upsilon$ 30'32		greatest brilliancy	820 Aug 31 j 10:57	13° $\Upsilon$ 28'01	-2.7m
	815 Jul 06 j 01:45	0° $\Upsilon$		opposition	820 Sep 01 j 18:24	13° $\Upsilon$ 04'50	-5°-31'-43
	815 Aug 21 j 20:19	0° $\Upsilon$		direct	820 Oct 01 j 21:01	7° $\Upsilon$ 44'34	
	815 Oct 09 j 13:44	0° $\Upsilon$		asc. node	820 Dec 09 j 09:11	0° $\Upsilon$ 00'59	
	815 Nov 30 j 13:19	0° $\Upsilon$			820 Dec 09 j 08:26	0° $\Upsilon$	
	816 Feb 03 j 09:37	0° $\Upsilon$			821 Jan 30 j 21:17	0° $\Upsilon$	
retrograde	816 Mar 10 j 12:18	6° $\Upsilon$ 40'45			821 Mar 20 j 21:40	0° $\Upsilon$	
	816 Apr 13 j 00:42	30° $\Upsilon$			821 May 08 j 07:37	0° $\Upsilon$	
opposition	816 Apr 15 j 08:24	29° $\Upsilon$ 10'25	1°02'35		821 Jun 25 j 09:52	0° $\Upsilon$	
greatest brilliancy	816 Apr 15 j 20:54	28° $\Upsilon$ 59'11	-1.9m	evening set	821 Jul 20 j 08:05	15° $\Upsilon$ 42'55	
min. Earth dist.	816 Apr 23 j 10:23	26° $\Upsilon$ 16'21	0.53197 AU		821 Aug 11 j 17:49	0° $\Upsilon$	
desc. node	816 May 07 j 05:02	22° $\Upsilon$ 06'45		max. Earth dist.	821 Aug 20 j 03:18	5° $\Upsilon$ 23'55	2.64998 AU
direct	816 May 24 j 18:38	20° $\Upsilon$ 01'24					
	816 Jul 05 j 13:08	0° $\Upsilon$		conjunction	821 Sep 03 j 23:42	15° $\Upsilon$ 01'28	0°57'02
	816 Aug 28 j 00:39	0° $\Upsilon$		minimum elong	821 Sep 04 j 00:48	15° $\Upsilon$ 03'14	0°57'02
	816 Oct 09 j 17:18	0° $\Upsilon$			821 Sep 26 j 18:45	0° $\Upsilon$	
	816 Nov 18 j 13:54	0° $\Upsilon$		morning rise	821 Oct 19 j 04:35	14° $\Upsilon$ 59'25	
	816 Dec 27 j 21:58	0° $\Upsilon$			821 Nov 10 j 05:05	0° $\Upsilon$	
	817 Feb 06 j 00:26	0° $\Upsilon$			821 Dec 23 j 00:37	0° $\Upsilon$	
asc. node	817 Mar 06 j 10:09	20° $\Upsilon$ 36'10		desc. node	821 Dec 28 j 02:09	3° $\Upsilon$ 37'11	
	817 Mar 19 j 15:57	0° $\Upsilon$			822 Feb 02 j 10:39	0° $\Upsilon$	
evening set	817 May 01 j 16:52	29° $\Upsilon$ 40'31			822 Mar 14 j 21:47	0° $\Upsilon$	
	817 May 02 j 04:25	0° $\Upsilon$			822 Apr 24 j 04:31	0° $\Upsilon$	
	817 Jun 16 j 11:27	0° $\Upsilon$			822 Jun 04 j 18:35	0° $\Upsilon$	
					822 Jul 21 j 10:34	0° $\Upsilon$	
conjunction	817 Jun 21 j 20:13	3° $\Upsilon$ 29'26	0°54'50	retrograde	822 Sep 24 j 14:28	22° $\Upsilon$ 30'12	
minimum elong	817 Jun 21 j 18:52	3° $\Upsilon$ 27'13	0°54'49	min. Earth dist.	822 Oct 24 j 22:54	16° $\Upsilon$ 10'52	0.51582 AU
max. Earth dist.	817 Jul 04 j 21:16	11° $\Upsilon$ 55'45	2.64613 AU	asc. node	822 Oct 27 j 08:00	15° $\Upsilon$ 17'50	
	817 Aug 02 j 02:08	0° $\Upsilon$		opposition	822 Nov 01 j 15:09	13° $\Upsilon$ 18'01	0°15'56
morning rise	817 Aug 08 j 01:34	3° $\Upsilon$ 48'12		greatest brilliancy	822 Nov 11 j 05:37	9° $\Upsilon$ 54'45	-2.1m
	817 Sep 18 j 11:37	0° $\Upsilon$		direct	822 Dec 06 j 06:53	5° $\Upsilon$ 43'46	
	817 Nov 05 j 10:03	0° $\Upsilon$			823 Feb 20 j 03:57	0° $\Upsilon$	
	817 Dec 24 j 08:07	0° $\Upsilon$			823 Apr 16 j 07:27	0° $\Upsilon$	
	818 Feb 14 j 07:42	0° $\Upsilon$			823 Jun 05 j 23:29	0° $\Upsilon$	

	823 Jul 24 j 07:14	0°♎		max. Earth dist.	828 Mar 21 j 00:44	25°♋29'35	2.38504 AU
evening set	823 Aug 27 j 04:12	21°♎52'58			828 Mar 26 j 22:28	0°♍	
	823 Sep 08 j 10:29	0°♌		morning rise	828 Apr 16 j 21:47	15°♍46'45	
max. Earth dist.	823 Sep 15 j 16:37	4°♌51'20	2.57281 AU		828 May 06 j 06:07	0°♎	
					828 Jun 17 j 17:34	0°♏	
conjunction	823 Oct 13 j 17:20	23°♌59'27	0°19'22	asc. node	828 Jun 18 j 04:36	0°♏18'56	
minimum elong	823 Oct 13 j 18:06	24°♌00'46	0°19'21		828 Aug 01 j 22:10	0°♐	
	823 Oct 22 j 08:14	0°♍			828 Sep 19 j 20:50	0°♑	
desc. node	823 Nov 15 j 00:48	16°♍49'09			828 Nov 16 j 15:58	0°♒	
morning rise	823 Dec 02 j 16:54	29°♍38'51		retrograde	829 Jan 11 j 00:36	14°♒11'24	
	823 Dec 03 j 04:26	0°♎		opposition	829 Feb 19 j 07:20	5°♒02'25	4°14'14
	824 Jan 12 j 08:37	0°♏		greatest brilliancy	829 Feb 19 j 22:15	4°♒47'48	-1.3m
	824 Feb 20 j 11:04	0°♐		min. Earth dist.	829 Feb 22 j 15:52	3°♒43'31	0.65919 AU
	824 Mar 30 j 05:52	0°♑			829 Mar 04 j 17:12	30°♒♌	
	824 May 08 j 15:59	0°♒		direct	829 Apr 01 j 18:03	25°♒00'41	
	824 Jun 19 j 00:03	0°♓			829 May 02 j 01:58	0°♔	
	824 Aug 03 j 12:14	0°♌			829 Jul 05 j 11:12	0°♕	
asc. node	824 Sep 13 j 06:44	22°♌10'10		desc. node	829 Jul 06 j 22:11	0°♕50'57	
	824 Oct 02 j 18:53	0°♍			829 Aug 21 j 21:40	0°♎	
retrograde	824 Nov 02 j 21:15	5°♍41'26			829 Oct 03 j 04:22	0°♏	
	824 Dec 01 j 20:55	30°♎♐			829 Nov 11 j 17:54	0°♑	
min. Earth dist.	824 Dec 08 j 10:15	27°♎29'17	0.62452 AU		829 Dec 20 j 00:48	0°♒	
opposition	824 Dec 12 j 19:36	25°♎44'16	3°23'29		830 Jan 27 j 04:28	0°♓	
greatest brilliancy	824 Dec 12 j 01:02	26°♎02'47	-1.5m	evening set	830 Feb 11 j 03:25	11°♓37'17	
direct	825 Jan 20 j 03:01	16°♎45'23			830 Mar 07 j 04:07	0°♔	
	825 Mar 14 j 15:29	0°♕					
	825 May 13 j 17:43	0°♖		conjunction	830 Apr 16 j 04:40	29°♔36'16	0°-12'-32
	825 Jul 03 j 17:27	0°♗		minimum elong	830 Apr 16 j 05:33	29°♔37'52	0°12'32
	825 Aug 19 j 16:25	0°♘		behind sun begin	830 Apr 15 j 13:35	29°♔09'03	
desc. node	825 Oct 01 j 23:24	29°♘34'26		behind sun end	830 Apr 16 j 21:30	0°♕06'40	
	825 Oct 02 j 13:55	0°♙			830 Apr 16 j 17:48	0°♖	
evening set	825 Oct 08 j 05:53	4°♙00'33		asc. node	830 May 06 j 03:11	13°♖50'37	
max. Earth dist.	825 Oct 23 j 01:27	14°♙38'33	2.45296 AU	max. Earth dist.	830 May 26 j 01:38	27°♖44'34	2.51706 AU
	825 Nov 12 j 23:32	0°♚			830 May 29 j 08:22	0°♗	
				morning rise	830 Jun 13 j 04:15	10°♗05'30	
conjunction	825 Dec 01 j 08:33	13°♚47'50	0°-36'-27		830 Jul 13 j 03:49	0°♘	
minimum elong	825 Dec 01 j 06:35	13°♚44'08	0°36'27		830 Aug 29 j 04:42	0°♙	
	825 Dec 22 j 12:43	0°♛			830 Oct 17 j 23:28	0°♚	
	826 Jan 29 j 23:58	0°♜			830 Dec 12 j 20:33	0°♛	
morning rise	826 Feb 01 j 11:21	1°♜56'36		retrograde	831 Feb 20 j 13:55	20°♛31'55	
greatest brilliancy	826 Feb 07 j 21:47	7°♜00'00	1.2m	opposition	831 Mar 29 j 17:29	12°♛25'51	2°23'03
	826 Mar 09 j 05:29	0°♝		greatest brilliancy	831 Mar 30 j 15:05	12°♛05'40	-1.7m
	826 Apr 17 j 02:34	0°♞		min. Earth dist.	831 Apr 05 j 17:35	9°♛49'06	0.57885 AU
	826 May 27 j 12:56	0°♟		direct	831 May 09 j 06:29	2°♛46'51	
	826 Jul 09 j 12:04	0°♠		desc. node	831 May 24 j 20:32	4°♛18'09	
asc. node	826 Aug 01 j 06:36	14°♠56'11			831 Jul 25 j 01:22	0°♞	
	826 Aug 25 j 15:04	0°♑			831 Sep 09 j 11:38	0°♟	
	826 Oct 22 j 14:48	0°♒			831 Oct 20 j 12:33	0°♠	
retrograde	826 Dec 07 j 20:42	10°♒50'19			831 Nov 28 j 14:30	0°♓	
opposition	827 Jan 17 j 00:53	1°♒04'43	4°30'52		832 Jan 06 j 09:29	0°♔	
greatest brilliancy	827 Jan 16 j 20:44	1°♒08'51	-1.2m		832 Feb 15 j 00:24	0°♕	
min. Earth dist.	827 Jan 16 j 12:00	1°♒17'34	0.67464 AU	asc. node	832 Mar 23 j 03:21	27°♕05'13	
	827 Jan 19 j 17:50	30°♒♓			832 Mar 27 j 05:22	0°♖	
direct	827 Feb 26 j 14:16	21°♓20'33		evening set	832 Apr 12 j 06:44	11°♖19'42	
	827 Apr 09 j 12:52	0°♔			832 May 09 j 08:53	0°♗	
	827 Jun 11 j 00:05	0°♕					
	827 Jul 30 j 13:44	0°♖		conjunction	832 Jun 05 j 06:10	18°♗02'43	0°41'27
desc. node	827 Aug 19 j 23:07	13°♗23'22		minimum elong	832 Jun 05 j 04:39	18°♗00'12	0°41'25
	827 Sep 13 j 04:37	0°♘			832 Jun 23 j 10:02	0°♘	
	827 Oct 24 j 14:53	0°♙		max. Earth dist.	832 Jun 25 j 01:41	1°♘04'47	2.61970 AU
	827 Dec 02 j 22:24	0°♚		morning rise	832 Jul 24 j 12:08	20°♘06'44	
evening set	827 Dec 03 j 10:16	0°♛23'04			832 Aug 08 j 23:59	0°♙	
	828 Jan 10 j 03:00	0°♜			832 Sep 25 j 17:44	0°♚	
					832 Nov 13 j 17:14	0°♛	
conjunction	828 Feb 07 j 04:37	22°♜10'07	-1°-3'-37		833 Jan 04 j 09:19	0°♞	
minimum elong	828 Feb 07 j 05:58	22°♜12'47	1°03'39		833 Mar 08 j 19:58	0°♟	
	828 Feb 17 j 03:46	0°♝		desc. node	833 Apr 10 j 19:25	7°♟11'17	

retrograde	833 Apr 15 j 12:23	7°♁19'24			838 Jun 13 j 10:40	0°♁	
opposition	833 May 18 j 15:31	1°♁01'15	-2°-5'-49		838 Jul 31 j 06:44	0°♁	
greatest brilliancy	833 May 19 j 14:03	0°♁42'58	-2.4m	evening set	838 Aug 12 j 03:44	7°♁37'05	
	833 May 21 j 18:43	30°♁		max. Earth dist.	838 Sep 04 j 14:47	22°♁54'29	2.60884 AU
min. Earth dist.	833 May 26 j 20:00	28°♁22'24	0.45101 AU		838 Sep 15 j 07:51	0°♁	
direct	833 Jun 23 j 21:20	23°♁20'59					
	833 Jul 26 j 09:29	0°♁		conjunction	838 Sep 27 j 12:48	8°♁10'38	0°36'51
	833 Sep 19 j 13:14	0°♁		minimum elong	838 Sep 27 j 13:57	8°♁12'35	0°36'51
	833 Nov 01 j 16:52	0°♁			838 Oct 29 j 09:15	0°♁	
	833 Dec 12 j 19:47	0°♁		morning rise	838 Nov 13 j 23:38	10°♁57'08	
	834 Jan 23 j 04:34	0°♁		desc. node	838 Dec 01 j 17:14	23°♁37'07	
asc. node	834 Feb 08 j 02:24	11°♁19'21			838 Dec 10 j 12:56	0°♁	
	834 Mar 06 j 19:39	0°♁			839 Jan 20 j 02:30	0°♁	
	834 Apr 20 j 02:01	0°♁			839 Feb 28 j 14:38	0°♁	
evening set	834 May 28 j 16:56	25°♁21'37			839 Apr 08 j 19:04	0°♁	
	834 Jun 04 j 20:51	0°♁			839 May 18 j 16:42	0°♁	
					839 Jun 29 j 23:21	0°♁	
conjunction	834 Jul 15 j 19:05	26°♁15'58	1°07'01		839 Aug 17 j 17:06	0°♁	
minimum elong	834 Jul 15 j 18:27	26°♁14'58	1°07'01	asc. node	839 Sep 30 j 23:07	18°♁06'27	
max. Earth dist.	834 Jul 19 j 11:05	28°♁36'18	2.67019 AU	retrograde	839 Oct 20 j 06:00	20°♁30'45	
	834 Jul 21 j 15:35	0°♁		min. Earth dist.	839 Nov 22 j 21:01	12°♁58'33	0.58802 AU
morning rise	834 Aug 30 j 01:32	25°♁05'44		opposition	839 Nov 28 j 16:46	10°♁40'58	2°28'46
	834 Sep 06 j 18:17	0°♁		greatest brilliancy	839 Nov 27 j 21:58	10°♁59'31	-1.7m
	834 Oct 23 j 16:31	0°♁		direct	840 Jan 04 j 18:17	2°♁09'17	
	834 Dec 09 j 06:56	0°♁			840 Mar 29 j 02:02	0°♁	
	835 Jan 24 j 21:01	0°♁			840 May 22 j 15:02	0°♁	
desc. node	835 Feb 26 j 18:53	20°♁54'40			840 Jul 11 j 06:29	0°♁	
	835 Mar 13 j 09:33	0°♁			840 Aug 26 j 19:42	0°♁	
	835 May 04 j 16:28	0°♁		evening set	840 Sep 20 j 09:26	16°♁35'32	
retrograde	835 Jul 02 j 21:06	18°♁02'15		max. Earth dist.	840 Oct 05 j 10:35	27°♁01'24	2.50367 AU
min. Earth dist.	835 Aug 01 j 00:45	13°♁16'45	0.37391 AU		840 Oct 09 j 16:23	0°♁	
opposition	835 Aug 02 j 08:48	12°♁55'21	-6°-52'-50	desc. node	840 Oct 18 j 16:16	6°♁21'58	
greatest brilliancy	835 Aug 02 j 02:00	12°♁59'53	-2.9m				
direct	835 Aug 31 j 23:25	8°♁00'20		conjunction	840 Nov 10 j 04:11	22°♁36'19	0°-13'-58
	835 Nov 06 j 04:36	0°♁		minimum elong	840 Nov 10 j 03:28	22°♁35'00	0°13'59
	835 Dec 26 j 14:10	0°♁		behind sun begin	840 Nov 09 j 15:46	22°♁13'39	
asc. node	835 Dec 27 j 00:30	0°♁16'15		behind sun end	840 Nov 10 j 15:09	22°♁56'22	
	836 Feb 11 j 14:14	0°♁			840 Nov 20 j 05:25	0°♁	
	836 Mar 29 j 10:51	0°♁			840 Dec 29 j 23:30	0°♁	
	836 May 15 j 19:08	0°♁		morning rise	841 Jan 05 j 12:32	5°♁02'04	
	836 Jul 02 j 08:42	0°♁			841 Feb 06 j 15:25	0°♁	
evening set	836 Jul 05 j 20:29	2°♁12'23			841 Mar 17 j 00:36	0°♁	
max. Earth dist.	836 Aug 10 j 21:00	25°♁05'50	2.66624 AU		841 Apr 25 j 00:30	0°♁	
	836 Aug 18 j 12:38	0°♁			841 Jun 04 j 15:06	0°♁	
					841 Jul 18 j 02:46	0°♁	
conjunction	836 Aug 20 j 15:10	1°♁21'08	1°04'53	asc. node	841 Aug 17 j 21:16	19°♁24'58	
minimum elong	836 Aug 20 j 15:55	1°♁22'20	1°04'53		841 Sep 05 j 04:55	0°♁	
	836 Oct 03 j 16:31	0°♁		retrograde	841 Nov 24 j 12:56	27°♁52'03	
morning rise	836 Oct 04 j 05:30	0°♁21'23		min. Earth dist.	842 Jan 01 j 17:10	18°♁47'25	0.66276 AU
	836 Nov 17 j 12:14	0°♁		opposition	842 Jan 03 j 18:15	17°♁58'16	4°15'40
	836 Dec 30 j 23:13	0°♁		greatest brilliancy	842 Jan 03 j 07:08	18°♁09'25	-1.3m
desc. node	837 Jan 13 j 17:44	9°♁41'37		direct	842 Feb 12 j 14:07	8°♁28'17	
	837 Feb 11 j 05:40	0°♁			842 Apr 25 j 17:59	0°♁	
	837 Mar 24 j 18:00	0°♁			842 Jun 20 j 03:39	0°♁	
	837 May 05 j 10:53	0°♁			842 Aug 07 j 08:57	0°♁	
	837 Jun 18 j 21:11	0°♁		desc. node	842 Sep 05 j 14:43	19°♁34'22	
	837 Aug 23 j 08:29	0°♁			842 Sep 20 j 14:54	0°♁	
retrograde	837 Sep 05 j 15:09	1°♁15'41			842 Nov 01 j 00:11	0°♁	
	837 Sep 18 j 17:12	30°♁		evening set	842 Nov 09 j 07:29	6°♁13'24	
min. Earth dist.	837 Oct 03 j 21:28	25°♁47'35	0.46372 AU		842 Dec 10 j 09:22	0°♁	
greatest brilliancy	837 Oct 11 j 06:59	23°♁11'29	-2.3m	max. Earth dist.	842 Dec 12 j 20:47	1°♁55'19	2.38062 AU
opposition	837 Oct 12 j 01:12	22°♁55'26	-1°-45'-16				
direct	837 Nov 13 j 20:19	16°♁10'12		conjunction	843 Jan 09 j 12:34	23°♁34'57	-1°-2'-24
asc. node	837 Nov 13 j 00:12	16°♁10'29		minimum elong	843 Jan 09 j 11:00	23°♁31'52	1°02'25
	838 Jan 05 j 16:16	0°♁			843 Jan 17 j 15:55	0°♁	
	838 Mar 04 j 17:12	0°♁			843 Feb 24 j 17:42	0°♁	
	838 Apr 25 j 01:40	0°♁		morning rise	843 Mar 20 j 07:32	18°♁21'06	



	843 Apr 04 j 12:04	0°♃		desc. node	848 Apr 27 j 10:57	9°♌48'52	
	843 May 14 j 18:50	0°♄		min. Earth dist.	848 May 04 j 21:16	7°♌13'22	0.50369 AU
	843 Jun 26 j 07:34	0°♅		direct	848 Jun 04 j 00:22	1°♌24'58	
asc. node	843 Jul 05 j 20:59	6°♅29'06			848 Aug 19 j 06:52	0°♁	
	843 Aug 10 j 21:57	0°♁			848 Oct 02 j 23:00	0°♂	
	843 Sep 30 j 13:39	0°♂			848 Nov 12 j 13:53	0°≈	
	843 Dec 13 j 20:51	0°♄			848 Dec 22 j 08:52	0°♁	
retrograde	843 Dec 29 j 01:28	1°♄21'26			849 Jan 31 j 19:11	0°♃	
	844 Jan 12 j 13:29	30°♁♂		asc. node	849 Feb 24 j 18:11	17°♃18'17	
opposition	844 Feb 06 j 19:48	21°♁55'31	4°30'16		849 Mar 14 j 16:48	0°♄	
greatest brilliancy	844 Feb 07 j 03:37	21°♁47'47	-1.2m		849 Apr 27 j 09:59	0°♅	
min. Earth dist.	844 Feb 08 j 16:03	21°♁11'44	0.67309 AU	evening set	849 May 11 j 21:32	9°♅40'38	
direct	844 Mar 19 j 02:24	11°♁57'07			849 Jun 11 j 19:58	0°♁	
	844 May 21 j 21:00	0°♄					
	844 Jul 15 j 09:08	0°♁		conjunction	849 Jun 30 j 18:42	12°♁15'40	1°00'33
desc. node	844 Jul 23 j 13:27	5°♁05'05		minimum elong	849 Jun 30 j 17:34	12°♁13'50	1°00'32
	844 Aug 30 j 06:54	0°♌		max. Earth dist.	849 Jul 10 j 09:34	18°♁26'36	2.65701 AU
	844 Oct 11 j 02:42	0°♁			849 Jul 28 j 11:14	0°♂	
	844 Nov 19 j 12:32	0°♂		morning rise	849 Aug 16 j 03:51	11°♂53'35	
	844 Dec 27 j 17:33	0°≈			849 Sep 13 j 17:29	0°♄	
evening set	845 Jan 14 j 03:38	13°≈45'43			849 Oct 31 j 05:26	0°♁	
greatest brilliancy	845 Jan 31 j 22:21	27°≈45'11	1.2m		849 Dec 18 j 02:41	0°♌	
	845 Feb 03 j 19:12	0°♁			850 Feb 05 j 10:10	0°♁	
	845 Mar 14 j 15:51	0°♃		desc. node	850 Mar 15 j 10:21	21°♁26'50	
					850 Apr 01 j 08:32	0°♂	
conjunction	845 Mar 22 j 07:15	5°♃46'35	0°-37'-26	retrograde	850 May 31 j 15:31	17°♂21'34	
minimum elong	845 Mar 22 j 09:56	5°♃51'39	0°37'25	opposition	850 Jul 01 j 00:46	12°♂16'20	-5°-55'-50
	845 Apr 24 j 01:51	0°♄		greatest brilliancy	850 Jul 02 j 02:15	11°♂58'54	-2.8m
max. Earth dist.	845 May 09 j 05:46	10°♄53'21	2.46524 AU	min. Earth dist.	850 Jul 05 j 02:54	11°♂09'16	0.38583 AU
asc. node	845 May 22 j 20:20	20°♄29'17		direct	850 Aug 01 j 12:47	6°♂42'41	
morning rise	845 May 24 j 06:37	21°♄29'09			850 Oct 07 j 06:02	0°≈	
	845 Jun 05 j 13:31	0°♅			850 Nov 23 j 22:43	0°♁	
	845 Jul 20 j 09:32	0°♁			851 Jan 07 j 10:14	0°♃	
	845 Sep 05 j 21:08	0°♂		asc. node	851 Jan 12 j 16:59	3°♃34'48	
	845 Oct 27 j 08:34	0°♄			851 Feb 20 j 23:02	0°♄	
	846 Jan 01 j 01:47	0°♁			851 Apr 07 j 11:33	0°♅	
retrograde	846 Feb 03 j 17:50	5°♁52'43			851 May 24 j 01:21	0°♁	
	846 Mar 06 j 15:14	30°♁♄		evening set	851 Jun 22 j 02:51	18°♁29'58	
opposition	846 Mar 13 j 21:46	27°♄17'58	3°20'00		851 Jul 10 j 05:32	0°♂	
greatest brilliancy	846 Mar 14 j 19:58	26°♄56'41	-1.5m	max. Earth dist.	851 Aug 02 j 18:04	14°♂57'07	2.67445 AU
min. Earth dist.	846 Mar 19 j 13:40	25°♄07'59	0.61756 AU				
direct	846 Apr 24 j 02:03	17°♄22'53		conjunction	851 Aug 07 j 10:15	17°♂55'48	1°08'50
desc. node	846 Jun 10 j 12:39	28°♄59'29		minimum elong	851 Aug 07 j 10:30	17°♂56'12	1°08'51
	846 Jun 12 j 20:16	0°♁			851 Aug 26 j 07:37	0°♄	
	846 Aug 06 j 04:35	0°♌		morning rise	851 Sep 20 j 21:46	16°♄28'36	
	846 Sep 19 j 03:42	0°♁			851 Oct 11 j 16:46	0°♁	
	846 Oct 29 j 08:42	0°♂			851 Nov 26 j 01:29	0°♌	
	846 Dec 06 j 23:59	0°≈			852 Jan 09 j 09:34	0°♁	
	847 Jan 14 j 10:44	0°♁		desc. node	852 Jan 31 j 10:43	15°♁08'37	
	847 Feb 22 j 17:44	0°♃			852 Feb 21 j 22:10	0°♂	
evening set	847 Mar 22 j 14:34	20°♃35'48			852 Apr 05 j 05:09	0°≈	
	847 Apr 04 j 14:59	0°♄			852 May 20 j 00:46	0°♁	
asc. node	847 Apr 09 j 18:40	3°♄40'59			852 Jul 15 j 06:35	0°♃	
	847 May 17 j 11:57	0°♅		retrograde	852 Aug 14 j 14:47	6°♃01'05	
				min. Earth dist.	852 Sep 10 j 08:21	1°♃17'52	0.41499 AU
conjunction	847 May 19 j 02:57	1°♅06'35	0°23'34		852 Sep 14 j 11:25	30°♁♁	
minimum elong	847 May 19 j 01:46	1°♅04'34	0°23'33	greatest brilliancy	852 Sep 16 j 07:16	29°♁24'57	-2.6m
max. Earth dist.	847 Jun 15 j 04:06	19°♅18'41	2.58547 AU	opposition	852 Sep 17 j 15:57	28°♁58'54	-4°-10'-53
	847 Jul 01 j 09:06	0°♁		direct	852 Oct 18 j 15:52	23°♁09'28	
morning rise	847 Jul 10 j 02:05	5°♁40'52			852 Nov 22 j 07:24	0°♃	
	847 Aug 17 j 00:39	0°♂		asc. node	852 Nov 29 j 15:04	2°♃46'20	
	847 Oct 04 j 07:07	0°♄			853 Jan 22 j 21:43	0°♄	
	847 Nov 23 j 20:50	0°♁			853 Mar 14 j 21:59	0°♅	
	848 Jan 20 j 01:12	0°♌			853 May 03 j 03:47	0°♁	
retrograde	848 Mar 22 j 13:17	17°♌16'04			853 Jun 20 j 15:27	0°♂	
opposition	848 Apr 26 j 11:44	10°♌09'09	0°02'57	evening set	853 Jul 28 j 14:28	23°♂54'32	
greatest brilliancy	860 Aug 20 j 11:28	15°♁00'56	47.7m		853 Aug 07 j 03:25	0°♄	

max. Earth dist.	853 Aug 25 j 17:09	11°♄58'23	2.63762 AU		858 Mar 04 j 07:51	0°♁	
					858 Apr 12 j 03:12	0°♂	
conjunction	853 Sep 12 j 08:38	23°♄30'23	0°50'42		858 May 22 j 10:57	0°♁	
minimum elong	853 Sep 12 j 09:49	23°♄32'20	0°50'42		858 Jul 04 j 04:15	0°♂	
	853 Sep 22 j 04:26	0°♁		asc. node	858 Jul 22 j 13:02	12°♂14'29	
morning rise	853 Oct 28 j 03:39	24°♁15'38			858 Aug 19 j 12:35	0°♁	
	853 Nov 05 j 11:44	0°♂			858 Oct 12 j 11:34	0°♂	
desc. node	853 Dec 18 j 09:20	0°♁13'55		retrograde	858 Dec 15 j 13:11	18°♂38'40	
	853 Dec 18 j 01:34	0°♁		opposition	859 Jan 24 j 14:54	8°♂59'19	4°34'05
	854 Jan 28 j 03:54	0°♁		greatest brilliancy	859 Jan 24 j 15:03	8°♂59'10	-1.2m
	854 Mar 09 j 05:38	0°♁		min. Earth dist.	859 Jan 24 j 22:41	8°♂51'33	0.67685 AU
	854 Apr 18 j 00:40	0°♁			859 Feb 22 j 22:01	30°♂♁	
	854 May 28 j 18:29	0°♂		direct	859 Mar 06 j 11:33	29°♁09'00	
	854 Jul 11 j 23:59	0°♁			859 Mar 18 j 12:33	0°♂	
	854 Sep 10 j 21:46	0°♂			859 Jun 04 j 06:06	0°♄	
retrograde	854 Oct 04 j 09:58	3°♂36'38			859 Jul 25 j 03:49	0°♁	
asc. node	854 Oct 17 j 14:42	2°♂20'38		desc. node	859 Aug 10 j 05:45	10°♁23'00	
	854 Oct 26 j 20:26	30°♂♁			859 Sep 08 j 04:49	0°♂	
min. Earth dist.	854 Nov 04 j 22:24	26°♁50'16	0.54310 AU		859 Oct 19 j 18:45	0°♁	
greatest brilliancy	854 Nov 11 j 13:02	24°♁18'09	-1.9m		859 Nov 28 j 03:23	0°♁	
opposition	854 Nov 12 j 01:15	24°♁06'25	1°12'16	evening set	859 Dec 18 j 05:58	15°♁43'48	
direct	854 Dec 17 j 15:30	16°♁09'19			860 Jan 05 j 08:00	0°♁	
	855 Feb 09 j 14:49	0°♂			860 Feb 12 j 08:37	0°♁	
	855 Apr 10 j 00:07	0°♁					
	855 May 31 j 18:26	0°♂		conjunction	860 Feb 23 j 12:20	8°♁43'11	0°-57'-25
	855 Jul 19 j 12:29	0°♄		minimum elong	860 Feb 23 j 15:03	8°♁48'29	0°57'26
	855 Sep 03 j 19:20	0°♁			860 Mar 22 j 03:11	0°♂	
evening set	855 Sep 05 j 01:34	0°♁50'19		max. Earth dist.	860 Apr 14 j 18:32	17°♂45'55	2.41129 AU
max. Earth dist.	855 Sep 22 j 15:31	12°♁40'56	2.54983 AU	morning rise	860 May 01 j 09:11	29°♂57'48	
	855 Oct 17 j 16:59	0°♂			860 May 01 j 10:24	0°♁	
				asc. node	860 Jun 08 j 11:53	26°♁59'37	
conjunction	855 Oct 23 j 12:44	4°♂05'58	0°07'52		860 Jun 12 j 20:31	0°♂	
minimum elong	855 Oct 23 j 13:05	4°♂06'34	0°07'51		860 Jul 27 j 19:51	0°♁	
behind sun begin	855 Oct 22 j 18:23	3°♂33'36			860 Sep 14 j 01:24	0°♂	
behind sun end	855 Oct 24 j 07:46	4°♂39'35			860 Nov 07 j 13:12	0°♄	
desc. node	855 Nov 05 j 07:43	13°♂12'02		retrograde	861 Jan 19 j 08:55	22°♄12'18	
	855 Nov 28 j 10:51	0°♁		opposition	861 Feb 27 j 07:27	13°♄14'24	3°58'35
morning rise	855 Dec 14 j 09:26	11°♁49'05		greatest brilliancy	861 Feb 28 j 01:43	12°♄56'37	-1.3m
	856 Jan 07 j 11:32	0°♁		min. Earth dist.	861 Mar 03 j 12:27	11°♄36'09	0.64695 AU
	856 Feb 15 j 10:00	0°♁		direct	861 Apr 09 j 17:47	3°♄13'02	
	856 Mar 25 j 00:55	0°♁		desc. node	861 Jun 27 j 04:19	29°♄31'45	
	856 May 03 j 06:17	0°♂			861 Jun 28 j 01:02	0°♁	
	856 Jun 13 j 05:22	0°♁			861 Aug 16 j 02:34	0°♂	
	856 Jul 27 j 16:32	0°♂			861 Sep 27 j 21:06	0°♁	
asc. node	856 Sep 03 j 14:39	22°♂15'38			861 Nov 06 j 15:34	0°♁	
	856 Sep 19 j 03:53	0°♁			861 Dec 15 j 01:00	0°♁	
retrograde	856 Nov 10 j 22:22	14°♁17'29			862 Jan 22 j 06:42	0°♁	
min. Earth dist.	856 Dec 17 j 11:01	5°♁45'18	0.64070 AU	evening set	862 Feb 26 j 03:26	26°♁49'21	
greatest brilliancy	856 Dec 20 j 07:34	4°♁36'44	-1.4m		862 Mar 02 j 08:15	0°♂	
opposition	856 Dec 21 j 00:13	4°♁20'03	3°47'10		862 Apr 11 j 23:32	0°♁	
	857 Jan 01 j 10:56	30°♂♂		asc. node	862 Apr 26 j 11:33	10°♁22'00	
direct	857 Jan 28 j 21:42	25°♂08'47					
	857 Feb 28 j 04:23	0°♁		conjunction	862 Apr 28 j 20:09	12°♁02'10	0°01'30
	857 May 07 j 05:43	0°♂		minimum elong	862 Apr 28 j 20:06	12°♁02'03	0°01'30
	857 Jun 28 j 11:19	0°♄		behind sun begin	862 Apr 27 j 19:50	11°♁19'10	
	857 Aug 14 j 20:21	0°♁		behind sun end	862 Apr 29 j 20:22	12°♁44'54	
desc. node	857 Sep 22 j 06:45	26°♁04'19			862 May 24 j 15:15	0°♂	
	857 Sep 27 j 21:10	0°♂		max. Earth dist.	862 Jun 02 j 22:00	6°♂20'12	2.54329 AU
evening set	857 Oct 19 j 03:57	15°♂12'40		morning rise	862 Jun 23 j 09:45	20°♂06'02	
max. Earth dist.	857 Nov 05 j 01:34	27°♂36'16	2.42479 AU		862 Jul 08 j 09:51	0°♁	
	857 Nov 08 j 07:00	0°♁			862 Aug 24 j 05:40	0°♂	
					862 Oct 12 j 07:33	0°♄	
conjunction	857 Dec 14 j 13:46	27°♁31'07	0°-48'-3		862 Dec 04 j 13:23	0°♁	
minimum elong	857 Dec 14 j 11:24	27°♁26'33	0°48'01	retrograde	863 Mar 03 j 00:44	29°♁56'21	
	857 Dec 17 j 18:52	0°♁		opposition	863 Apr 08 j 11:26	22°♁09'05	1°39'50
	858 Jan 25 j 04:09	0°♁		greatest brilliancy	863 Apr 09 j 05:10	21°♁52'51	-1.8m
morning rise	858 Feb 18 j 00:25	18°♁46'18		min. Earth dist.	863 Apr 16 j 03:03	19°♁20'59	0.55377 AU

desc. node	863 May 15 j 03:58	12°♁48'42		max. Earth dist.	868 Aug 16 j 06:51	1°♃29'59	2.65837 AU
direct	863 May 18 j 11:25	12°♁44'16					
	863 Jul 15 j 04:36	0°♆		conjunction	868 Aug 28 j 19:44	9°♃34'49	1°00'46
	863 Sep 02 j 16:29	0°♁		minimum elong	868 Aug 28 j 20:41	9°♃36'22	1°00'46
	863 Oct 14 j 13:48	0°♄			868 Sep 29 j 01:34	0°♁	
	863 Nov 23 j 01:07	0°♁		morning rise	868 Oct 12 j 16:18	9°♁02'22	
	864 Jan 01 j 02:23	0°♃			868 Nov 12 j 16:47	0°♆	
	864 Feb 09 j 22:31	0°♃			868 Dec 25 j 19:27	0°♁	
asc. node	864 Mar 13 j 09:44	23°♃38'39		desc. node	869 Jan 04 j 01:16	6°♁33'35	
	864 Mar 22 j 07:52	0°♃			869 Feb 05 j 14:28	0°♄	
evening set	864 Apr 23 j 14:01	22°♃28'28			869 Mar 18 j 11:36	0°♁	
	864 May 04 j 15:06	0°♆			869 Apr 28 j 06:40	0°♃	
					869 Jun 09 j 17:22	0°♃	
conjunction	864 Jun 14 j 21:09	27°♆27'42	0°49'44		869 Jul 29 j 13:09	0°♃	
minimum elong	864 Jun 14 j 19:40	27°♆25'18	0°49'43	retrograde	869 Sep 16 j 17:48	14°♃09'52	
	864 Jun 18 j 18:18	0°♄		min. Earth dist.	869 Oct 16 j 02:24	8°♃13'53	0.49266 AU
max. Earth dist.	864 Jun 30 j 21:24	7°♄53'20	2.63543 AU	opposition	869 Oct 24 j 02:59	5°♃17'49	0°-32'-2
morning rise	864 Aug 01 j 22:01	28°♄27'53		greatest brilliancy	869 Oct 23 j 21:05	5°♃23'12	-2.2m
	864 Aug 04 j 07:49	0°♁		asc. node	869 Nov 03 j 07:25	1°♃49'15	
	864 Sep 20 j 20:10	0°♃			869 Nov 10 j 02:25	30°♃	
	864 Nov 08 j 04:03	0°♁		direct	869 Nov 26 j 23:46	28°♃04'15	
	864 Dec 28 j 01:52	0°♆			869 Dec 14 j 20:43	0°♃	
	865 Feb 21 j 03:33	0°♁			870 Feb 25 j 03:11	0°♆	
desc. node	865 Apr 01 j 02:53	15°♁52'26			870 Apr 19 j 09:10	0°♄	
retrograde	865 Apr 30 j 17:45	20°♁41'01			870 Jun 08 j 11:01	0°♁	
opposition	865 Jun 01 j 21:32	14°♁51'33	-3°-30'-53		870 Jul 26 j 14:12	0°♃	
greatest brilliancy	865 Jun 03 j 04:27	14°♁27'49	-2.5m	evening set	870 Aug 20 j 16:26	16°♃08'55	
min. Earth dist.	865 Jun 09 j 07:37	12°♁35'48	0.42393 AU		870 Sep 10 j 17:23	0°♁	
direct	865 Jul 06 j 11:55	7°♁55'52		max. Earth dist.	870 Sep 10 j 22:22	0°♁08'18	2.58988 AU
	865 Sep 08 j 09:57	0°♄					
	865 Oct 24 j 21:44	0°♁		conjunction	870 Oct 06 j 14:51	17°♁28'23	0°27'09
	865 Dec 06 j 07:10	0°♃		minimum elong	870 Oct 06 j 15:50	17°♁30'03	0°27'09
	866 Jan 17 j 09:49	0°♃			870 Oct 24 j 17:54	0°♆	
asc. node	866 Jan 29 j 08:34	8°♃24'26		desc. node	870 Nov 21 j 23:51	20°♆01'20	
	866 Mar 01 j 12:43	0°♃		morning rise	870 Nov 24 j 07:53	21°♆42'16	
	866 Apr 15 j 03:26	0°♆			870 Dec 05 j 18:18	0°♁	
	866 May 31 j 03:35	0°♄			871 Jan 15 j 03:20	0°♄	
evening set	866 Jun 06 j 20:21	4°♄18'34			871 Feb 23 j 10:07	0°♁	
	866 Jul 17 j 01:01	0°♁			871 Apr 03 j 08:40	0°♃	
					871 May 12 j 22:28	0°♃	
conjunction	866 Jul 24 j 03:44	4°♁31'48	1°08'52		871 Jun 23 j 12:49	0°♃	
minimum elong	866 Jul 24 j 03:26	4°♁31'20	1°08'51		871 Aug 08 j 22:50	0°♆	
max. Earth dist.	866 Jul 24 j 17:51	4°♁54'15	2.67411 AU	asc. node	871 Sep 21 j 06:02	21°♆42'56	
	866 Sep 02 j 03:00	0°♃		retrograde	871 Oct 28 j 18:49	29°♆48'46	
morning rise	866 Sep 07 j 00:00	3°♃06'57		min. Earth dist.	871 Dec 02 j 11:40	21°♆53'32	0.60927 AU
	866 Oct 18 j 19:46	0°♁		opposition	871 Dec 07 j 12:16	19°♆53'46	3°03'06
	866 Dec 03 j 21:57	0°♆		greatest brilliancy	871 Dec 06 j 16:51	20°♆13'05	-1.5m
	867 Jan 18 j 12:28	0°♁		direct	872 Jan 14 j 06:39	11°♆06'12	
desc. node	867 Feb 17 j 02:01	19°♁28'52			872 Mar 20 j 12:02	0°♄	
	867 Mar 05 j 03:10	0°♄			872 May 16 j 20:00	0°♁	
	867 Apr 21 j 06:17	0°♁			872 Jul 06 j 06:05	0°♃	
	867 Jun 18 j 06:29	0°♃			872 Aug 22 j 01:52	0°♁	
retrograde	867 Jul 20 j 00:48	6°♃14'36		evening set	872 Sep 30 j 08:21	26°♁43'37	
min. Earth dist.	867 Aug 16 j 06:01	1°♃46'48	0.38127 AU		872 Oct 05 j 00:20	0°♆	
greatest brilliancy	867 Aug 19 j 10:09	0°♃54'05	-2.8m	desc. node	872 Oct 08 j 22:17	2°♆45'45	
opposition	867 Aug 20 j 09:41	0°♃37'45	-6°-21'-7	max. Earth dist.	872 Oct 14 j 20:08	6°♆57'35	2.47596 AU
	867 Aug 22 j 16:22	30°♃			872 Nov 15 j 12:31	0°♁	
direct	867 Sep 18 j 23:49	25°♃35'09					
	867 Oct 15 j 23:11	0°♃		conjunction	872 Nov 21 j 20:05	4°♁41'45	0°-26'-58
asc. node	867 Dec 17 j 08:12	29°♃51'49		minimum elong	872 Nov 21 j 18:39	4°♁39'04	0°26'59
	867 Dec 17 j 13:50	0°♃			872 Dec 25 j 04:44	0°♄	
	868 Feb 05 j 00:56	0°♃		morning rise	873 Jan 20 j 06:05	20°♄12'42	
	868 Mar 23 j 22:51	0°♆			873 Feb 01 j 18:20	0°♁	
	868 May 10 j 19:58	0°♄			873 Mar 12 j 01:17	0°♃	
	868 Jun 27 j 16:14	0°♁		greatest brilliancy	873 Apr 08 j 14:15	21°♃19'49	1.2m
evening set	868 Jul 14 j 04:16	10°♁24'36			873 Apr 19 j 22:53	0°♃	
	868 Aug 13 j 22:46	0°♃			873 May 30 j 09:29	0°♃	

	873 Jul 12 j 11:21	0°♁			878 May 27 j 03:56	0°♁
asc. node	873 Aug 08 j 05:34	17°♁20'13		desc. node	878 May 31 j 19:24	1°♁21'19
	873 Aug 29 j 03:32	0°♁			878 Jul 29 j 23:29	0°♁
	873 Oct 30 j 18:26	0°♁			878 Sep 13 j 05:20	0°♁
retrograde	873 Dec 02 j 05:13	5°♁49'04			878 Oct 23 j 21:34	0°♁
	874 Jan 01 j 02:25	30°♁			878 Dec 01 j 18:32	0°♁
min. Earth dist.	874 Jan 10 j 05:32	26°♁28'10	0.67056 AU		879 Jan 09 j 09:05	0°♁
opposition	874 Jan 11 j 10:13	25°♁59'26	4°26'04		879 Feb 17 j 19:24	0°♁
greatest brilliancy	874 Jan 11 j 02:53	26°♁06'47	-1.3m		879 Mar 30 j 19:24	0°♁
direct	874 Feb 20 j 16:06	16°♁21'02		asc. node	879 Mar 31 j 02:22	0°♁12'26
	874 Apr 16 j 08:47	0°♁		evening set	879 Apr 04 j 05:00	3°♁08'20
	874 Jun 14 j 06:06	0°♁			879 May 12 j 18:32	0°♁
	874 Aug 02 j 06:27	0°♁				
desc. node	874 Aug 26 j 21:57	16°♁18'36		conjunction	879 May 29 j 16:27	11°♁26'35 0°34'26
	874 Sep 15 j 18:51	0°♁		minimum elong	879 May 29 j 14:59	11°♁24'08 0°34'26
	874 Oct 27 j 05:46	0°♁		max. Earth dist.	879 Jun 21 j 14:43	26°♁40'09 2.60534 AU
evening set	874 Nov 22 j 13:44	19°♁55'49			879 Jun 26 j 16:30	0°♁
	874 Dec 05 j 14:47	0°♁		morning rise	879 Jul 19 j 01:09	14°♁31'21
	875 Jan 12 j 20:24	0°♁			879 Aug 12 j 06:06	0°♁
					879 Sep 29 j 04:05	0°♁
conjunction	875 Jan 25 j 12:11	10°♁00'05	-1°-5'-1		879 Nov 17 j 17:19	0°♁
minimum elong	875 Jan 25 j 12:10	10°♁00'04	1°05'02		880 Jan 10 j 03:38	0°♁
max. Earth dist.	875 Feb 08 j 14:44	21°♁08'05	2.37182 AU	retrograde	880 Apr 04 j 14:30	28°♁40'10
	875 Feb 19 j 21:19	0°♁		desc. node	880 Apr 17 j 18:11	27°♁34'19
	875 Mar 30 j 15:10	0°♁		opposition	880 May 08 j 13:27	21°♁59'10 -1°-6'-36
morning rise	875 Apr 05 j 20:55	4°♁44'23		greatest brilliancy	880 May 09 j 02:33	21°♁48'08 -2.2m
	875 May 09 j 21:08	0°♁		min. Earth dist.	880 May 16 j 23:46	19°♁09'10 0.47447 AU
	875 Jun 21 j 07:29	0°♁		direct	880 Jun 14 j 21:47	13°♁47'12
asc. node	875 Jun 26 j 03:49	3°♁18'50			880 Aug 07 j 18:08	0°♁
	875 Aug 05 j 13:46	0°♁			880 Sep 25 j 07:03	0°♁
	875 Sep 24 j 00:40	0°♁			880 Nov 06 j 02:28	0°♁
	875 Nov 24 j 04:44	0°♁			880 Dec 16 j 12:33	0°♁
retrograde	876 Jan 05 j 23:42	9°♁08'48			881 Jan 26 j 09:28	0°♁
opposition	876 Feb 14 j 12:20	29°♁51'55	4°22'13	asc. node	881 Feb 15 j 01:33	14°♁07'10
	876 Feb 14 j 04:06	30°♁			881 Mar 09 j 14:58	0°♁
greatest brilliancy	876 Feb 15 j 00:14	29°♁40'11	-1.3m		881 Apr 22 j 14:00	0°♁
min. Earth dist.	876 Feb 17 j 05:02	28°♁48'12	0.66672 AU	evening set	881 May 21 j 15:41	19°♁14'33
direct	876 Mar 26 j 21:57	19°♁50'55			881 Jun 07 j 03:41	0°♁
	876 May 11 j 04:17	0°♁				
	876 Jul 09 j 03:44	0°♁		conjunction	881 Jul 09 j 11:25	20°♁49'12 1°04'49
desc. node	876 Jul 13 j 21:12	2°♁50'13		minimum elong	881 Jul 09 j 10:34	20°♁47'51 1°04'48
	876 Aug 24 j 22:56	0°♁		max. Earth dist.	881 Jul 15 j 19:36	24°♁52'32 2.66531 AU
	876 Oct 06 j 01:52	0°♁			881 Jul 23 j 20:15	0°♁
	876 Nov 14 j 14:29	0°♁		morning rise	881 Aug 24 j 04:15	19°♁56'33
greatest brilliancy	876 Nov 29 j 23:50	12°♁00'08	1.2m		881 Sep 09 j 00:05	0°♁
	876 Dec 22 j 20:32	0°♁			881 Oct 26 j 03:59	0°♁
	877 Jan 29 j 22:45	0°♁			881 Dec 12 j 06:49	0°♁
evening set	877 Jan 30 j 01:44	0°♁05'51			882 Jan 28 j 20:56	0°♁
	877 Mar 09 j 20:08	0°♁		desc. node	882 Mar 05 j 17:48	21°♁52'57
					882 Mar 19 j 15:03	0°♁
conjunction	877 Apr 05 j 19:09	20°♁09'04	0°-23'-19		882 May 21 j 16:39	0°♁
minimum elong	877 Apr 05 j 20:52	20°♁12'14	0°23'18	retrograde	882 Jun 18 j 19:38	4°♁40'20
	877 Apr 19 j 06:47	0°♁			882 Jul 17 j 21:25	30°♁
asc. node	877 May 13 j 02:17	17°♁00'08		opposition	882 Jul 18 j 23:55	29°♁42'23 -6°-44'-59
max. Earth dist.	877 May 19 j 09:04	21°♁24'27	2.49448 AU	greatest brilliancy	882 Jul 19 j 09:25	29°♁36'04 -2.9m
	877 May 31 j 18:36	0°♁		min. Earth dist.	882 Jul 20 j 04:30	29°♁23'22 0.37526 AU
morning rise	877 Jun 04 j 22:22	2°♁51'08		direct	882 Aug 18 j 05:08	24°♁38'13
	877 Jul 15 j 12:38	0°♁			882 Sep 16 j 12:32	0°♁
	877 Aug 31 j 16:16	0°♁			882 Nov 14 j 09:38	0°♁
	877 Oct 21 j 00:11	0°♁			882 Dec 31 j 09:12	0°♁
	877 Dec 18 j 12:05	0°♁		asc. node	883 Jan 02 j 23:33	1°♁42'02
retrograde	878 Feb 13 j 03:22	14°♁33'49			883 Feb 15 j 02:05	0°♁
opposition	878 Mar 22 j 18:27	6°♁14'16	2°49'14		883 Apr 02 j 06:14	0°♁
greatest brilliancy	878 Mar 23 j 16:56	5°♁53'00	-1.6m		883 May 19 j 05:05	0°♁
min. Earth dist.	878 Mar 29 j 04:44	3°♁48'31	0.59727 AU	evening set	883 Jun 30 j 14:48	26°♁51'08
	878 Apr 09 j 08:31	30°♁			883 Jul 05 j 14:07	0°♁
direct	878 May 02 j 15:33	26°♁26'31		max. Earth dist.	883 Aug 08 j 00:42	21°♁14'41 2.67094 AU

conjunction	883 Aug 15 j 13:45	26°♁03'50	1°07'00			888 Jul 21 j 09:57	0°♁	
minimum elong	883 Aug 15 j 14:18	26°♁04'43	1°06'59	asc. node		888 Aug 24 j 20:23	21°♁13'54	
	883 Aug 21 j 17:16	0°♁				888 Sep 09 j 16:57	0°♁	
morning rise	883 Sep 29 j 01:22	24°♁48'08		retrograde		888 Nov 18 j 19:44	22°♁37'06	
	883 Oct 06 j 23:49	0°♁		min. Earth dist.		888 Dec 26 j 06:42	13°♁46'09	0.65424 AU
	883 Nov 21 j 01:43	0°♁		opposition		888 Dec 28 j 23:38	12°♁41'04	4°05'37
	884 Jan 03 j 21:56	0°♁		greatest brilliancy		888 Dec 28 j 09:47	12°♁54'57	-1.3m
desc. node	884 Jan 21 j 16:47	12°♁23'22		direct		889 Feb 06 j 09:41	3°♁18'47	
	884 Feb 15 j 17:01	0°♁				889 Apr 30 j 02:08	0°♁	
	884 Mar 28 j 21:22	0°♁				889 Jun 23 j 00:58	0°♁	
	884 May 10 j 14:42	0°♁				889 Aug 09 j 22:34	0°♁	
	884 Jun 26 j 14:25	0°♁		desc. node		889 Sep 12 j 13:59	22°♁37'53	
retrograde	884 Aug 27 j 11:57	21°♁13'58				889 Sep 23 j 03:47	0°♁	
min. Earth dist.	884 Sep 23 j 22:45	16°♁08'13	0.44085 AU	evening set		889 Oct 30 j 18:37	27°♁09'35	
opposition	884 Oct 01 j 23:19	13°♁25'53	-2°-46'-13			889 Nov 03 j 14:26	0°♁	
greatest brilliancy	884 Sep 30 j 21:00	13°♁48'08	-2.5m	max. Earth dist.		889 Nov 22 j 17:27	14°♁23'15	2.39854 AU
direct	884 Nov 02 j 21:58	7°♁05'23				889 Dec 13 j 01:38	0°♁	
asc. node	884 Nov 19 j 23:02	8°♁52'48						
	885 Jan 13 j 08:29	0°♁		conjunction		889 Dec 28 j 18:18	12°♁12'55	0°-57'-26
	885 Mar 08 j 12:41	0°♁		minimum elong		889 Dec 28 j 16:05	12°♁08'33	0°57'26
	885 Apr 27 j 20:24	0°♁				890 Jan 20 j 09:41	0°♁	
	885 Jun 15 j 19:42	0°♁				890 Feb 27 j 11:55	0°♁	
	885 Aug 02 j 12:36	0°♁		morning rise		890 Mar 07 j 01:15	5°♁54'40	
evening set	885 Aug 05 j 21:30	2°♁09'21				890 Apr 07 j 05:51	0°♁	
max. Earth dist.	885 Aug 31 j 10:22	18°♁40'58	2.62265 AU			890 May 17 j 11:36	0°♁	
	885 Sep 17 j 14:24	0°♁				890 Jun 29 j 00:09	0°♁	
				asc. node		890 Jul 12 j 19:49	9°♁19'26	
conjunction	885 Sep 20 j 22:21	2°♁13'00	0°43'07			890 Aug 13 j 18:54	0°♁	
minimum elong	885 Sep 20 j 23:33	2°♁15'00	0°43'07			890 Oct 04 j 09:41	0°♁	
	885 Oct 31 j 19:20	0°♁		retrograde		890 Dec 23 j 06:50	26°♁24'24	
morning rise	885 Nov 06 j 13:09	3°♁59'39		opposition		891 Feb 01 j 04:55	16°♁52'09	4°33'11
desc. node	885 Dec 08 j 16:00	26°♁45'10		greatest brilliancy		891 Feb 01 j 09:24	16°♁47'43	-1.2m
	885 Dec 13 j 04:05	0°♁		min. Earth dist.		891 Feb 02 j 09:07	16°♁24'08	0.67610 AU
	886 Jan 22 j 23:41	0°♁		direct		891 Mar 14 j 07:31	6°♁56'44	
	886 Mar 03 j 17:45	0°♁				891 May 27 j 16:35	0°♁	
	886 Apr 12 j 03:45	0°♁				891 Jul 19 j 12:47	0°♁	
	886 May 22 j 08:13	0°♁		desc. node		891 Jul 31 j 12:47	7°♁34'57	
	886 Jul 04 j 04:38	0°♁				891 Sep 03 j 02:50	0°♁	
	886 Aug 24 j 12:49	0°♁				891 Oct 14 j 21:07	0°♁	
asc. node	886 Oct 07 j 22:29	13°♁41'54				891 Nov 23 j 07:13	0°♁	
retrograde	886 Oct 13 j 15:54	13°♁55'28				891 Dec 31 j 12:19	0°♁	
min. Earth dist.	886 Nov 15 j 08:40	6°♁42'43	0.56891 AU	evening set		892 Jan 02 j 18:38	1°♁47'21	
opposition	886 Nov 21 j 18:28	4°♁12'43	1°59'36			892 Feb 07 j 13:07	0°♁	
greatest brilliancy	886 Nov 21 j 01:17	4°♁29'31	-1.7m					
	886 Dec 03 j 08:51	30°♁		conjunction		892 Mar 10 j 10:53	24°♁44'53	0°-47'-7
direct	886 Dec 28 j 04:43	25°♁55'22		minimum elong		892 Mar 10 j 13:58	24°♁50'48	0°47'06
	887 Jan 24 j 06:49	0°♁				892 Mar 17 j 08:04	0°♁	
	887 Apr 03 j 04:14	0°♁				892 Apr 26 j 15:35	0°♁	
	887 May 26 j 10:00	0°♁		max. Earth dist.		892 Apr 29 j 23:08	2°♁24'16	2.44090 AU
	887 Jul 14 j 16:37	0°♁		morning rise		892 May 14 j 18:00	13°♁00'29	
	887 Aug 30 j 04:06	0°♁		asc. node		892 May 29 j 19:46	23°♁36'57	
evening set	887 Sep 14 j 04:53	10°♁04'36				892 Jun 08 j 00:53	0°♁	
max. Earth dist.	887 Sep 30 j 04:29	21°♁00'23	2.52507 AU			892 Jul 22 j 20:27	0°♁	
	887 Oct 13 j 02:32	0°♁				892 Sep 08 j 12:57	0°♁	
desc. node	887 Oct 26 j 15:11	9°♁34'37				892 Oct 30 j 22:46	0°♁	
						893 Jan 19 j 20:01	0°♁	
conjunction	887 Nov 02 j 20:10	14°♁44'35	0°-4'-29	retrograde		893 Jan 28 j 00:08	0°♁23'48	
minimum elong	887 Nov 02 j 19:58	14°♁44'13	0°04'30			893 Feb 04 j 23:31	30°♁	
behind sun begin	887 Nov 01 j 22:50	14°♁06'14		opposition		893 Mar 07 j 13:02	21°♁38'09	3°37'51
behind sun end	887 Nov 03 j 17:06	15°♁22'15		greatest brilliancy		893 Mar 08 j 09:50	21°♁18'04	-1.4m
	887 Nov 23 j 18:38	0°♁		min. Earth dist.		893 Mar 12 j 13:39	19°♁41'46	0.63198 AU
morning rise	887 Dec 27 j 00:18	24°♁54'54		direct		893 Apr 17 j 21:04	11°♁39'05	
	888 Jan 02 j 16:17	0°♁		desc. node		893 Jun 17 j 11:37	29°♁05'56	
	888 Feb 10 j 11:14	0°♁				893 Jun 19 j 07:41	0°♁	
	888 Mar 19 j 22:27	0°♁				893 Aug 09 j 23:37	0°♁	
	888 Apr 27 j 23:44	0°♁				893 Sep 22 j 10:21	0°♁	
	888 Jun 07 j 16:05	0°♁				893 Nov 01 j 11:07	0°♁	

	893 Dec 09 j 23:47	0°♊		conjunction	898 Aug 01 j 08:23	12°♌40'25	1°09'19
	894 Jan 17 j 07:37	0°♋		minimum elong	898 Aug 01 j 08:26	12°♌40'29	1°09'19
	894 Feb 25 j 11:12	0°♌			898 Aug 28 j 12:11	0°♍	
evening set	894 Mar 12 j 07:29	11°♌05'36		morning rise	898 Sep 14 j 22:22	11°♍10'33	
	894 Apr 07 j 04:32	0°♍			898 Oct 14 j 01:00	0°♎	
asc. node	894 Apr 16 j 18:18	6°♍51'14			898 Nov 28 j 17:23	0°♏	
					899 Jan 12 j 14:02	0°♐	
conjunction	894 May 10 j 15:50	23°♌37'50	0°14'40	desc. node	899 Feb 07 j 09:48	17°♐27'19	
minimum elong	894 May 10 j 15:01	23°♌36'24	0°14'39		899 Feb 25 j 21:46	0°♑	
behind sun begin	894 May 10 j 06:06	23°♌20'58			899 Apr 11 j 11:09	0°♒	
behind sun end	894 May 10 j 23:55	23°♌51'49			899 May 29 j 04:08	0°♋	
	894 May 19 j 21:42	0°♌		retrograde	899 Aug 04 j 15:33	23°♋56'32	
max. Earth dist.	894 Jun 10 j 02:42	14°♌22'36	2.56751 AU	min. Earth dist.	899 Aug 31 j 06:09	19°♋25'43	0.39712 AU
morning rise	894 Jul 03 j 02:47	29°♌37'43		greatest brilliancy	899 Sep 05 j 03:19	17°♋58'28	-2.7m
	894 Jul 03 j 16:22	0°♍		opposition	899 Sep 06 j 11:28	17°♋34'19	-5°-14'-3
	894 Aug 19 j 08:20	0°♎		direct	899 Oct 06 j 18:26	12°♋08'54	
	894 Oct 06 j 21:06	0°♏			899 Dec 05 j 15:50	0°♌	
	894 Nov 27 j 08:26	0°♐		asc. node	899 Dec 07 j 14:29	0°♌57'37	
	895 Jan 27 j 23:15	0°♑			900 Jan 28 j 18:01	0°♍	
retrograde	895 Mar 14 j 07:29	9°♑58'14			900 Mar 18 j 04:07	0°♎	
opposition	895 Apr 18 j 22:39	2°♑32'09	0°47'43		900 May 05 j 18:03	0°♏	
greatest brilliancy	895 Apr 19 j 08:31	2°♑23'19	-1.9m		900 Jun 22 j 22:38	0°♐	
	895 Apr 26 j 00:14	30°♑♌		evening set	900 Jul 22 j 10:23	18°♑34'46	
min. Earth dist.	895 Apr 27 j 01:26	29°♑37'49	0.52682 AU		900 Aug 09 j 08:27	0°♒	
desc. node	895 May 05 j 10:07	26°♑55'20		max. Earth dist.	900 Aug 21 j 18:12	7°♒58'36	2.64802 AU
direct	895 May 28 j 04:45	23°♑27'01					
	895 Jun 30 j 06:11	0°♒		conjunction	900 Sep 06 j 01:49	17°♒55'09	0°55'22
	895 Aug 25 j 23:51	0°♓		minimum elong	900 Sep 06 j 02:56	17°♒56'59	0°55'21
	895 Oct 08 j 05:22	0°♑			900 Sep 24 j 11:02	0°♓	
	895 Nov 17 j 06:38	0°♒		morning rise	900 Oct 21 j 08:50	18°♓00'38	
	895 Dec 26 j 16:17	0°♋			900 Nov 07 j 22:39	0°♌	
	896 Feb 04 j 18:45	0°♌			900 Dec 20 j 18:49	0°♍	
asc. node	896 Mar 03 j 17:19	20°♌17'16		desc. node	900 Dec 25 j 08:25	3°♍15'46	
	896 Mar 17 j 09:18	0°♍			901 Jan 31 j 04:43	0°♎	
	896 Apr 29 j 20:29	0°♌			901 Mar 12 j 14:40	0°♏	
evening set	896 May 04 j 05:07	2°♌56'20			901 Apr 21 j 18:26	0°♋	
	896 Jun 14 j 02:17	0°♍			901 Jun 02 j 01:23	0°♌	
					901 Jul 17 j 17:57	0°♍	
conjunction	896 Jun 24 j 02:08	6°♍29'56	0°56'32	retrograde	901 Sep 27 j 02:24	26°♌00'57	
minimum elong	896 Jun 24 j 00:50	6°♍27'49	0°56'31	asc. node	901 Oct 24 j 13:48	20°♌42'45	
max. Earth dist.	896 Jul 06 j 13:03	14°♍32'41	2.64839 AU	min. Earth dist.	901 Oct 27 j 15:02	19°♌36'44	0.52097 AU
	896 Jul 30 j 15:57	0°♎		opposition	901 Nov 04 j 05:17	16°♌45'07	0°31'44
morning rise	896 Aug 10 j 03:17	6°♎40'02		greatest brilliancy	901 Nov 03 j 23:14	16°♌50'50	-2.0m
	896 Sep 16 j 00:10	0°♏		direct	901 Dec 09 j 02:04	9°♌06'08	
	896 Nov 02 j 19:54	0°♐			902 Feb 16 j 03:53	0°♑	
	896 Dec 21 j 11:12	0°♑			902 Apr 13 j 08:39	0°♒	
desc. node	897 Feb 10 j 14:56	0°♒			902 Jun 03 j 08:31	0°♓	
	897 Mar 22 j 09:20	20°♒24'03			902 Jul 21 j 20:31	0°♑	
	897 Apr 15 j 18:50	0°♓		evening set	902 Aug 29 j 09:00	24°♒52'29	
retrograde	897 May 17 j 16:17	5°♓34'37			902 Sep 06 j 02:47	0°♑	
opposition	897 Jun 17 j 17:46	0°♓12'45	-4°-57'-20	max. Earth dist.	902 Sep 17 j 12:40	7°♑38'13	2.56861 AU
	897 Jun 18 j 11:33	30°♒♓					
greatest brilliancy	897 Jun 19 j 01:50	29°♒49'45	-2.7m	conjunction	902 Oct 16 j 01:21	27°♑10'07	0°16'24
min. Earth dist.	897 Jun 23 j 16:03	28°♒31'06	0.40038 AU	minimum elong	902 Oct 16 j 02:01	27°♑11'17	0°16'24
direct	897 Jul 20 j 14:23	24°♒04'42			902 Oct 20 j 02:47	0°♒	
	897 Aug 20 j 02:09	0°♓		desc. node	902 Nov 12 j 06:42	16°♒24'44	
	897 Oct 15 j 10:32	0°♑			902 Dec 01 j 00:30	0°♓	
	897 Nov 29 j 01:59	0°♋		morning rise	902 Dec 05 j 08:24	3°♓10'39	
	898 Jan 11 j 06:56	0°♌			903 Jan 10 j 05:30	0°♑	
asc. node	898 Jan 19 j 16:26	5°♌48'11			903 Feb 18 j 08:00	0°♒	
	898 Feb 24 j 02:02	0°♍			903 Mar 29 j 01:56	0°♋	
	898 Apr 10 j 02:58	0°♌			903 May 07 j 09:53	0°♌	
	898 May 26 j 09:34	0°♍			903 Jun 17 j 13:13	0°♍	
evening set	898 Jun 15 j 15:48	12°♍57'26			903 Aug 01 j 13:30	0°♎	
	898 Jul 12 j 10:15	0°♎		asc. node	903 Sep 11 j 13:55	22°♌56'45	
max. Earth dist.	898 Jul 29 j 23:26	11°♎09'48	2.67535 AU		903 Sep 27 j 14:40	0°♏	
				retrograde	903 Nov 06 j 00:26	8°♏40'54	

min. Earth dist.	903 Dec 11 j 17:46	0°☉24'23	0.62772 AU		908 Nov 09 j 14:07	0°☾	
	903 Dec 12 j 18:16	30°♁♁			908 Dec 17 j 22:21	0°♁	
opposition	903 Dec 15 j 22:35	28°♁43'39	3°31'00		909 Jan 25 j 02:06	0°♁	
greatest brilliancy	903 Dec 15 j 04:10	29°♁02'05	-1.5m	evening set	909 Feb 14 j 14:18	15°♁54'46	
direct	904 Jan 23 j 08:01	19°♁42'19			909 Mar 05 j 00:52	0°♁	
	904 Mar 09 j 12:54	0°♁			909 Apr 14 j 12:54	0°♁	
	904 May 10 j 16:11	0°♁					
	904 Jul 01 j 02:51	0°♁		conjunction	909 Apr 19 j 04:45	3°♁21'48	0°-8'-59
	904 Aug 17 j 07:24	0°♁		minimum elong	909 Apr 19 j 05:22	3°♁22'55	0°08'59
desc. node	904 Sep 29 j 05:42	29°♁12'51		behind sun begin	909 Apr 18 j 08:10	2°♁44'45	
	904 Sep 30 j 08:33	0°♁		behind sun end	909 Apr 20 j 02:35	4°♁01'02	
evening set	904 Oct 10 j 18:25	7°♁22'20		asc. node	909 May 03 j 10:54	13°♁32'11	
max. Earth dist.	904 Oct 25 j 19:46	18°♁13'10	2.44764 AU		909 May 27 j 01:18	0°♁	
	904 Nov 10 j 20:31	0°♁		max. Earth dist.	909 May 28 j 00:42	0°♁40'14	2.52212 AU
				morning rise	909 Jun 15 j 16:36	13°♁21'34	
conjunction	904 Dec 04 j 06:49	17°♁36'35	0°-39'-25		909 Jul 10 j 18:09	0°♁	
minimum elong	904 Dec 04 j 04:45	17°♁32'39	0°39'25		909 Aug 26 j 15:30	0°♁	
	904 Dec 20 j 10:57	0°♁			909 Oct 15 j 03:14	0°♁	
greatest brilliancy	905 Jan 24 j 21:59	27°♁37'48	1.2m		909 Dec 08 j 23:49	0°♁	
	905 Jan 27 j 22:25	0°♁		retrograde	910 Feb 23 j 02:03	23°♁36'04	
morning rise	905 Feb 05 j 01:17	6°♁22'54		opposition	910 Apr 01 j 01:44	15°♁33'35	2°11'49
	905 Mar 07 j 03:15	0°♁		greatest brilliancy	910 Apr 01 j 22:26	15°♁14'18	-1.7m
	905 Apr 14 j 22:45	0°♁		min. Earth dist.	910 Apr 08 j 04:52	12°♁54'17	0.57412 AU
	905 May 25 j 06:27	0°♁		direct	910 May 11 j 12:15	5°♁56'36	
	905 Jul 07 j 01:04	0°♁		desc. node	910 May 22 j 02:32	6°♁40'03	
asc. node	905 Jul 29 j 12:23	14°♁50'33			910 Jul 21 j 13:18	0°♁	
	905 Aug 22 j 18:19	0°♁			910 Sep 06 j 20:28	0°♁	
	905 Oct 17 j 21:38	0°♁			910 Oct 18 j 03:57	0°♁	
retrograde	905 Dec 09 j 21:36	13°♁39'54			910 Nov 26 j 08:29	0°♁	
opposition	906 Jan 19 j 00:46	3°♁55'40	4°32'12		911 Jan 04 j 04:11	0°♁	
greatest brilliancy	906 Jan 18 j 21:34	3°♁58'53	-1.2m		911 Feb 12 j 18:45	0°♁	
min. Earth dist.	906 Jan 18 j 16:33	4°♁03'54	0.67527 AU	asc. node	911 Mar 21 j 09:08	26°♁44'19	
	906 Jan 29 j 04:26	30°♁♁			911 Mar 25 j 22:43	0°♁	
direct	906 Feb 28 j 14:52	24°♁10'10		evening set	911 Apr 16 j 01:44	14°♁52'50	
	906 Apr 03 j 05:30	0°♁			911 May 08 j 00:54	0°♁	
	906 Jun 07 j 21:43	0°♁					
	906 Jul 28 j 00:17	0°♁		conjunction	911 Jun 08 j 16:15	21°♁13'06	0°43'50
desc. node	906 Aug 17 j 04:50	13°♁10'03		minimum elong	911 Jun 08 j 14:44	21°♁10'34	0°43'49
	906 Sep 10 j 21:16	0°♁			911 Jun 22 j 00:39	0°♁	
	906 Oct 22 j 11:08	0°♁		max. Earth dist.	911 Jun 27 j 15:12	3°♁39'48	2.62306 AU
	906 Nov 30 j 20:43	0°♁		morning rise	911 Jul 27 j 15:37	23°♁02'45	
evening set	906 Dec 06 j 16:28	4°♁31'45			911 Aug 07 j 13:06	0°♁	
	907 Jan 08 j 02:05	0°♁			911 Sep 24 j 04:42	0°♁	
					911 Nov 11 j 23:33	0°♁	
conjunction	907 Feb 10 j 19:38	26°♁38'01	-1°-2'-35		912 Jan 02 j 02:30	0°♁	
minimum elong	907 Feb 10 j 21:23	26°♁41'28	1°02'34		912 Mar 02 j 05:59	0°♁	
	907 Feb 15 j 02:27	0°♁		desc. node	912 Apr 08 j 01:54	10°♁22'05	
	907 Mar 25 j 19:47	0°♁		retrograde	912 Apr 18 j 17:27	11°♁02'57	
max. Earth dist.	907 Mar 28 j 06:19	1°♁51'24	2.38932 AU	opposition	912 May 21 j 17:33	4°♁49'52	-2°-25'-35
morning rise	907 Apr 21 j 06:44	19°♁53'19		greatest brilliancy	912 May 22 j 18:37	4°♁29'42	-2.4m
	907 May 05 j 01:12	0°♁		min. Earth dist.	912 May 29 j 20:26	2°♁14'09	0.44582 AU
asc. node	907 Jun 16 j 10:49	0°♁02'04			912 Jun 06 j 16:27	30°♁♁	
	907 Jun 16 j 09:37	0°♁		direct	912 Jun 26 j 15:20	27°♁17'30	
	907 Jul 31 j 09:50	0°♁			912 Jul 16 j 21:00	0°♁	
	907 Sep 17 j 23:49	0°♁			912 Sep 16 j 04:23	0°♁	
	907 Nov 13 j 08:11	0°♁			912 Oct 29 j 23:40	0°♁	
retrograde	908 Jan 14 j 03:40	17°♁02'32			912 Dec 10 j 07:48	0°♁	
opposition	908 Feb 22 j 08:47	7°♁55'49	4°09'54		913 Jan 20 j 18:25	0°♁	
greatest brilliancy	908 Feb 23 j 00:27	7°♁40'29	-1.3m	asc. node	913 Feb 05 j 07:21	11°♁03'08	
min. Earth dist.	908 Feb 25 j 21:49	6°♁32'35	0.65698 AU		913 Mar 04 j 09:52	0°♁	
	908 Mar 16 j 18:24	30°♁♁			913 Apr 17 j 15:58	0°♁	
direct	908 Apr 03 j 19:14	27°♁53'51		evening set	913 May 31 j 01:26	28°♁27'39	
	908 Apr 22 j 20:55	0°♁			913 Jun 02 j 10:30	0°♁	
	908 Jul 02 j 07:39	0°♁					
desc. node	908 Jul 04 j 03:07	1°♁02'04		conjunction	913 Jul 17 j 23:13	29°♁12'17	1°07'40
	908 Aug 19 j 08:50	0°♁		minimum elong	913 Jul 17 j 22:41	29°♁11'27	1°07'39
	908 Sep 30 j 21:33	0°♁			913 Jul 19 j 05:09	0°♁	

max. Earth dist.	913 Jul 21 j 02:46	1°♁12'41	2.67132 AU	min. Earth dist.	918 Nov 25 j 07:30	16°♁01'47	0.59224 AU	
morning rise	913 Sep 01 j 02:51	27°♁57'27		opposition	918 Nov 30 j 22:51	13°♁48'05	2°39'14	
	913 Sep 04 j 07:45	0°♁		greatest brilliancy	918 Nov 30 j 03:27	14°♁07'17	-1.6m	
	913 Oct 21 j 05:21	0°♁		direct	919 Jan 07 j 03:06	5°♁13'05		
	913 Dec 06 j 17:37	0°♁			919 Mar 26 j 10:31	0°♁		
	914 Jan 22 j 02:38	0°♁			919 May 20 j 19:07	0°♁		
desc. node	914 Feb 24 j 00:56	21°♁06'26			919 Jul 09 j 17:37	0°♁		
	914 Mar 10 j 03:24	0°♁			919 Aug 25 j 11:01	0°♁		
	914 Apr 29 j 17:28	0°♁		evening set	919 Sep 23 j 19:01	19°♁48'37		
					919 Oct 08 j 10:42	0°♁		
retrograde	914 Jul 06 j 19:21	22°♁48'08		max. Earth dist.	919 Oct 08 j 17:13	0°♁11'27	2.49850 AU	
min. Earth dist.	914 Aug 04 j 10:41	18°♁07'42	0.37459 AU	desc. node	919 Oct 16 j 21:16	5°♁57'25		
opposition	914 Aug 06 j 08:19	17°♁37'15	-6°-49'-30					
greatest brilliancy	914 Aug 05 j 22:10	17°♁44'02	-2.9m					
direct	914 Sep 04 j 20:08	12°♁42'19		conjunction	919 Nov 13 j 21:13	26°♁10'32	0°-17'-20	
	914 Nov 01 j 07:42	0°♁		minimum elong	919 Nov 13 j 20:19	26°♁08'53	0°17'20	
	914 Dec 23 j 09:51	0°♁			919 Nov 19 j 01:51	0°♁		
asc. node	914 Dec 24 j 07:03	0°♁32'52			919 Dec 28 j 21:13	0°♁		
	915 Feb 08 j 20:14	0°♁		morning rise	920 Jan 09 j 18:49	9°♁09'48		
	915 Mar 27 j 20:40	0°♁			920 Feb 05 j 13:35	0°♁		
	915 May 14 j 06:43	0°♁			920 Mar 14 j 22:16	0°♁		
	915 Jun 30 j 21:34	0°♁			920 Apr 22 j 20:35	0°♁		
evening set	915 Jul 09 j 00:04	5°♁07'07			920 Jun 02 j 08:06	0°♁		
max. Earth dist.	915 Aug 13 j 09:04	27°♁36'16	2.66512 AU		920 Jul 15 j 13:44	0°♁		
	915 Aug 17 j 02:49	0°♁		asc. node	920 Aug 15 j 04:28	19°♁31'22		
					920 Sep 01 j 23:52	0°♁		
conjunction	915 Aug 23 j 17:19	4°♁14'26	1°03'50		920 Nov 15 j 22:31	0°♁		
minimum elong	915 Aug 23 j 18:08	4°♁15'44	1°03'49	retrograde	920 Nov 26 j 13:36	0°♁42'08		
	915 Oct 02 j 07:56	0°♁			920 Dec 06 j 19:30	30°♁		
morning rise	915 Oct 07 j 08:05	3°♁18'07		min. Earth dist.	921 Jan 03 j 21:23	21°♁33'57	0.66446 AU	
	915 Nov 16 j 04:21	0°♁		opposition	921 Jan 05 j 18:07	20°♁49'05	4°19'14	
	915 Dec 29 j 15:08	0°♁		greatest brilliancy	921 Jan 05 j 07:41	20°♁59'32	-1.3m	
desc. node	916 Jan 12 j 00:04	9°♁25'10		direct	921 Feb 14 j 15:13	11°♁17'19		
	916 Feb 09 j 20:19	0°♁			921 Apr 21 j 20:14	0°♁		
	916 Mar 22 j 05:51	0°♁			921 Jun 17 j 08:30	0°♁		
	916 May 02 j 16:48	0°♁			921 Aug 04 j 22:18	0°♁		
	916 Jun 15 j 10:35	0°♁		desc. node	921 Sep 02 j 20:52	19°♁16'34		
	916 Aug 11 j 12:31	0°♁			921 Sep 18 j 08:48	0°♁		
retrograde	916 Sep 08 j 09:05	5°♁08'51			921 Oct 29 j 20:46	0°♁		
	916 Oct 05 j 15:05	30°♁		evening set	921 Nov 12 j 07:30	10°♁05'19		
min. Earth dist.	916 Oct 06 j 18:48	29°♁36'20	0.46921 AU		921 Dec 08 j 07:22	0°♁		
opposition	916 Oct 14 j 23:44	26°♁42'05	-1°-26'-4	max. Earth dist.	921 Dec 21 j 10:20	10°♁12'57	2.37705 AU	
greatest brilliancy	916 Oct 14 j 08:33	26°♁55'33	-2.3m					
asc. node	916 Nov 10 j 06:37	20°♁09'29		conjunction	922 Jan 13 j 02:13	28°♁01'27	-1°-3'-28	
direct	916 Nov 17 j 00:44	19°♁51'10		minimum elong	922 Jan 13 j 00:57	27°♁58'57	1°03'28	
	916 Dec 31 j 02:44	0°♁			922 Jan 15 j 14:20	0°♁		
	917 Mar 01 j 12:04	0°♁			922 Feb 22 j 15:40	0°♁		
	917 Apr 22 j 07:29	0°♁		morning rise	922 Mar 24 j 03:20	22°♁55'47		
	917 Jun 10 j 21:08	0°♁			922 Apr 02 j 08:48	0°♁		
	917 Jul 28 j 20:15	0°♁			922 May 12 j 13:31	0°♁		
evening set	917 Aug 14 j 07:25	10°♁33'30			922 Jun 23 j 23:06	0°♁		
max. Earth dist.	917 Sep 06 j 11:54	25°♁41'48	2.60558 AU	asc. node	922 Jul 03 j 03:21	6°♁15'07		
	917 Sep 12 j 23:53	0°♁			922 Aug 08 j 08:06	0°♁		
					922 Sep 27 j 10:19	0°♁		
conjunction	917 Sep 29 j 18:18	11°♁14'04	0°34'18		922 Dec 03 j 14:13	0°♁		
minimum elong	917 Sep 29 j 19:25	11°♁15'56	0°34'17	retrograde	922 Dec 31 j 02:27	4°♁08'28		
	917 Oct 27 j 03:22	0°♁			923 Jan 25 j 11:44	30°♁		
morning rise	917 Nov 16 j 09:51	14°♁14'39		opposition	923 Feb 08 j 19:32	24°♁44'21	4°28'07	
desc. node	917 Nov 28 j 22:48	23°♁12'23		greatest brilliancy	923 Feb 09 j 04:14	24°♁35'45	-1.2m	
	917 Dec 08 j 08:29	0°♁		min. Earth dist.	923 Feb 10 j 20:03	23°♁56'20	0.67221 AU	
	918 Jan 17 j 22:40	0°♁		direct	923 Mar 22 j 02:11	14°♁45'12		
	918 Feb 26 j 10:35	0°♁			923 May 18 j 17:27	0°♁		
	918 Apr 06 j 13:37	0°♁			923 Jul 13 j 14:54	0°♁		
	918 May 16 j 08:03	0°♁		desc. node	923 Jul 21 j 20:24	5°♁03'26		
	918 Jun 27 j 07:22	0°♁			923 Aug 28 j 22:07	0°♁		
	918 Aug 14 j 00:49	0°♁			923 Oct 09 j 22:26	0°♁		
	asc. node	918 Sep 28 j 05:07	19°♁58'01			923 Nov 18 j 10:28	0°♁	
	retrograde	918 Oct 22 j 11:50	23°♁39'08			923 Dec 26 j 16:11	0°♁	



evening set	924 Jan 18 j 17:20	18° $\approx$ 12'22			928 Oct 28 j 16:18	0° $\underline{\text{u}}$	
greatest brilliancy	924 Jan 22 j 18:40	21° $\approx$ 24'07	1.2m		928 Dec 15 j 09:16	0° $\mathbb{M}$	
	924 Feb 02 j 17:21	0° $\text{H}$			929 Feb 02 j 05:47	0° $\text{Z}$	
	924 Mar 12 j 12:39	0° $\text{Y}$		desc. node	929 Mar 12 j 16:58	22° $\text{Z}$ 11'14	
					929 Mar 27 j 11:15	0° $\underline{\text{z}}$	
conjunction	924 Mar 25 j 17:37	9° $\text{Y}$ 58'19	0°-34'00	retrograde	929 Jun 04 j 13:16	21° $\underline{\text{z}}$ 50'31	
minimum elong	924 Mar 25 j 20:08	10° $\text{Y}$ 03'01	0°33'59	opposition	929 Jul 04 j 20:55	16° $\underline{\text{z}}$ 48'03	-6°-9'-58
	924 Apr 21 j 20:41	0° $\text{B}$		greatest brilliancy	929 Jul 05 j 20:15	16° $\underline{\text{z}}$ 32'09	-2.8m
max. Earth dist.	924 May 11 j 19:59	14° $\text{B}$ 19'58	2.47089 AU	min. Earth dist.	929 Jul 08 j 10:30	15° $\underline{\text{z}}$ 49'46	0.38302 AU
asc. node	924 May 20 j 01:41	20° $\text{B}$ 08'28		direct	929 Aug 05 j 03:19	11° $\underline{\text{z}}$ 21'12	
morning rise	924 May 27 j 03:47	25° $\text{B}$ 05'27			929 Oct 02 j 13:14	0° $\approx$	
	924 Jun 03 j 05:55	0° $\text{II}$			929 Nov 20 j 19:05	0° $\text{H}$	
	924 Jul 17 j 22:59	0° $\underline{\text{e}}$			930 Jan 04 j 16:45	0° $\text{Y}$	
	924 Sep 03 j 05:56	0° $\Omega$		asc. node	930 Jan 09 j 22:58	3° $\text{Y}$ 32'45	
	924 Oct 24 j 05:59	0° $\mathbb{M}$			930 Feb 18 j 09:28	0° $\text{B}$	
	924 Dec 25 j 17:41	0° $\underline{\text{u}}$			930 Apr 04 j 23:31	0° $\text{II}$	
retrograde	925 Feb 06 j 01:03	8° $\underline{\text{u}}$ 48'52			930 May 21 j 14:01	0° $\underline{\text{e}}$	
opposition	925 Mar 16 j 02:09	0° $\underline{\text{u}}$ 17'02	3°11'38	evening set	930 Jun 24 j 06:57	21° $\underline{\text{e}}$ 26'14	
	925 Mar 16 j 19:59	30° $\mathbb{R}$ $\mathbb{M}$			930 Jul 07 j 18:45	0° $\Omega$	
greatest brilliancy	925 Mar 17 j 00:21	29° $\mathbb{M}$ 55'49	-1.5m	max. Earth dist.	930 Aug 04 j 05:24	17° $\Omega$ 26'28	2.67391 AU
min. Earth dist.	925 Mar 21 j 21:37	28° $\mathbb{M}$ 03'48	0.61403 AU				
direct	925 Apr 26 j 04:47	20° $\mathbb{M}$ 22'53		conjunction	930 Aug 09 j 12:28	20° $\Omega$ 48'57	1°08'26
desc. node	925 Jun 07 j 18:27	29° $\mathbb{M}$ 59'54		minimum elong	930 Aug 09 j 12:50	20° $\Omega$ 49'30	1°08'25
	925 Jun 07 j 18:33	0° $\underline{\text{u}}$			930 Aug 23 j 21:24	0° $\mathbb{M}$	
	925 Aug 03 j 07:59	0° $\mathbb{M}$		morning rise	930 Sep 22 j 23:39	19° $\mathbb{M}$ 23'14	
	925 Sep 16 j 18:14	0° $\text{Z}$			930 Oct 09 j 06:59	0° $\underline{\text{u}}$	
	925 Oct 27 j 03:45	0° $\underline{\text{z}}$			930 Nov 23 j 15:28	0° $\mathbb{M}$	
	925 Dec 04 j 20:54	0° $\approx$			931 Jan 06 j 22:19	0° $\text{Z}$	
	926 Jan 12 j 07:52	0° $\text{H}$		desc. node	931 Jan 28 j 15:50	14° $\text{Z}$ 57'26	
	926 Feb 20 j 13:59	0° $\text{Y}$			931 Feb 19 j 08:06	0° $\underline{\text{z}}$	
evening set	926 Mar 25 j 14:44	24° $\text{Y}$ 22'56			931 Apr 03 j 09:20	0° $\approx$	
	926 Apr 02 j 09:38	0° $\text{B}$			931 May 17 j 14:11	0° $\text{H}$	
asc. node	926 Apr 07 j 01:31	3° $\text{B}$ 20'19			931 Jul 08 j 22:06	0° $\text{Y}$	
	926 May 15 j 04:37	0° $\text{II}$		retrograde	931 Aug 18 j 14:19	10° $\text{Y}$ 17'43	
				min. Earth dist.	931 Sep 14 j 11:08	5° $\text{Y}$ 31'18	0.41945 AU
conjunction	926 May 21 j 18:07	4° $\text{II}$ 28'42	0°26'36	opposition	931 Sep 21 j 23:26	3° $\text{Y}$ 06'49	-3°-51'-4
minimum elong	926 May 21 j 16:49	4° $\text{II}$ 26'30	0°26'35	greatest brilliancy	931 Sep 20 j 15:44	3° $\text{Y}$ 32'19	-2.6m
max. Earth dist.	926 Jun 16 j 21:46	22° $\text{II}$ 01'59	2.58933 AU		931 Oct 02 j 12:11	30° $\mathbb{R}$ $\text{H}$	
	926 Jun 28 j 23:44	0° $\underline{\text{e}}$		direct	931 Oct 23 j 02:05	27° $\text{H}$ 11'52	
morning rise	926 Jul 12 j 09:15	8° $\underline{\text{e}}$ 44'27			931 Nov 13 j 13:09	0° $\text{Y}$	
	926 Aug 14 j 13:05	0° $\Omega$		asc. node	931 Nov 27 j 22:12	4° $\text{Y}$ 25'27	
	926 Oct 01 j 16:04	0° $\mathbb{M}$			932 Jan 20 j 09:27	0° $\text{B}$	
	926 Nov 20 j 21:32	0° $\underline{\text{u}}$			932 Mar 12 j 01:24	0° $\text{II}$	
	927 Jan 15 j 17:13	0° $\mathbb{M}$			932 Apr 30 j 12:39	0° $\underline{\text{e}}$	
retrograde	927 Mar 26 j 11:31	20° $\mathbb{M}$ 40'21			932 Jun 18 j 03:14	0° $\Omega$	
desc. node	927 Apr 25 j 17:10	15° $\mathbb{M}$ 09'52		evening set	932 Jul 30 j 16:41	26° $\Omega$ 47'18	
opposition	927 Apr 30 j 05:13	13° $\mathbb{M}$ 38'03	0°-13'-46		932 Aug 04 j 17:26	0° $\mathbb{M}$	
greatest brilliancy	927 Apr 20 j 04:50	16° $\mathbb{M}$ 53'01	-2.1m	max. Earth dist.	932 Aug 27 j 08:19	14° $\mathbb{M}$ 34'40	2.63496 AU
min. Earth dist.	927 May 08 j 14:31	10° $\mathbb{M}$ 43'22	0.49822 AU				
direct	927 Jun 07 j 11:42	4° $\mathbb{M}$ 59'21		conjunction	932 Sep 14 j 12:02	26° $\mathbb{M}$ 27'59	0°48'42
	927 Aug 16 j 16:37	0° $\text{Z}$		minimum elong	932 Sep 14 j 13:14	26° $\mathbb{M}$ 29'57	0°48'41
	927 Oct 01 j 06:04	0° $\underline{\text{z}}$			932 Sep 19 j 20:20	0° $\underline{\text{u}}$	
	927 Nov 11 j 03:35	0° $\approx$		morning rise	932 Oct 30 j 10:35	27° $\underline{\text{u}}$ 24'17	
	927 Dec 21 j 01:05	0° $\text{H}$			932 Nov 03 j 04:57	0° $\mathbb{M}$	
	928 Jan 30 j 12:00	0° $\text{Y}$		desc. node	932 Dec 15 j 14:42	29° $\mathbb{M}$ 51'31	
asc. node	928 Feb 23 j 00:47	17° $\text{Y}$ 00'20			932 Dec 15 j 19:25	0° $\text{Z}$	
	928 Mar 12 j 09:11	0° $\text{B}$			933 Jan 25 j 21:37	0° $\underline{\text{z}}$	
	928 Apr 25 j 01:22	0° $\text{II}$			933 Mar 06 j 22:30	0° $\approx$	
evening set	928 May 14 j 07:57	12° $\text{II}$ 52'03			933 Apr 15 j 15:27	0° $\text{H}$	
	928 Jun 09 j 10:19	0° $\underline{\text{e}}$			933 May 26 j 04:34	0° $\text{Y}$	
					933 Jul 08 j 20:59	0° $\text{B}$	
conjunction	928 Jul 02 j 23:59	15° $\underline{\text{e}}$ 14'50	1°01'51		933 Sep 03 j 04:33	0° $\text{II}$	
minimum elong	928 Jul 02 j 22:55	15° $\underline{\text{e}}$ 13'08	1°01'51	retrograde	933 Oct 06 j 18:40	6° $\text{II}$ 56'19	
max. Earth dist.	928 Jul 12 j 01:54	21° $\underline{\text{e}}$ 04'36	2.65876 AU	asc. node	933 Oct 14 j 21:57	6° $\text{II}$ 27'24	
	928 Jul 26 j 00:43	0° $\Omega$			933 Nov 07 j 16:45	30° $\mathbb{R}$ $\text{B}$	
morning rise	928 Aug 18 j 05:32	14° $\Omega$ 46'00		min. Earth dist.	933 Nov 07 j 12:23	0° $\text{II}$ 04'08	0.54825 AU
	928 Sep 11 j 06:04	0° $\mathbb{M}$		opposition	933 Nov 14 j 11:13	27° $\text{B}$ 23'23	1°25'44

greatest brilliancy	933 Nov 13 j 21:17	27°♄36'52	-1.9m		939 Feb 10 j 07:20	0°♁	
direct	933 Dec 20 j 05:08	19°♄22'02					
	934 Feb 04 j 10:46	0°♁		conjunction	939 Feb 27 j 02:48	13°♁07'50	0°55'-17
	934 Apr 06 j 21:30	0°♁		minimum elong	939 Feb 27 j 05:43	13°♁13'29	0°55'16
	934 May 29 j 02:13	0°♁			939 Mar 21 j 00:47	0°♁	
	934 Jul 17 j 01:16	0°♁		max. Earth dist.	939 Apr 19 j 09:43	22°♁02'39	2.41676 AU
	934 Sep 01 j 11:35	0°♁			939 Apr 30 j 06:03	0°♁	
evening set	934 Sep 07 j 06:22	3°♁51'04		morning rise	939 May 05 j 13:26	3°♄51'10	
max. Earth dist.	934 Sep 24 j 13:51	15°♁32'37	2.54533 AU	asc. node	939 Jun 06 j 18:54	26°♄41'58	
	934 Oct 15 j 11:49	0°♁			939 Jun 11 j 13:24	0°♁	
					939 Jul 26 j 08:49	0°♁	
conjunction	934 Oct 25 j 22:19	7°♁21'07	0°04'45		939 Sep 12 j 07:22	0°♁	
minimum elong	934 Oct 25 j 22:33	7°♁21'30	0°04'45		939 Nov 04 j 21:51	0°♁	
behind sun begin	934 Oct 25 j 02:05	6°♁45'17		retrograde	940 Jan 22 j 12:59	25°♁04'13	
behind sun end	934 Oct 26 j 19:01	7°♁57'46		opposition	940 Mar 01 j 09:28	16°♁08'37	3°52'50
desc. node	934 Nov 02 j 14:11	12°♁48'20		greatest brilliancy	940 Mar 02 j 04:14	15°♁50'21	-1.4m
	934 Nov 26 j 07:25	0°♁		min. Earth dist.	940 Mar 05 j 18:10	14°♁26'46	0.64443 AU
morning rise	934 Dec 17 j 04:54	15°♁30'38		direct	940 Apr 11 j 19:00	6°♁07'13	
	935 Jan 05 j 08:55	0°♁		desc. node	940 Jun 24 j 10:23	29°♁54'58	
	935 Feb 13 j 07:17	0°♁			940 Jun 24 j 14:11	0°♁	
	935 Mar 23 j 21:09	0°♁			940 Aug 13 j 12:39	0°♁	
	935 May 02 j 00:17	0°♁			940 Sep 25 j 14:22	0°♁	
	935 Jun 11 j 19:17	0°♁			940 Nov 04 j 12:01	0°♁	
	935 Jul 25 j 21:37	0°♁			940 Dec 12 j 22:39	0°♁	
asc. node	935 Sep 01 j 19:52	22°♁40'56			941 Jan 20 j 04:13	0°♁	
	935 Sep 15 j 22:32	0°♁			941 Feb 28 j 04:43	0°♁	
retrograde	935 Nov 14 j 00:57	17°♁14'08		evening set	941 Mar 01 j 10:36	0°♁56'26	
min. Earth dist.	935 Dec 20 j 17:24	8°♁37'49	0.64367 AU		941 Apr 09 j 18:24	0°♁	
greatest brilliancy	935 Dec 23 j 10:03	7°♁33'01	-1.4m	asc. node	941 Apr 23 j 17:47	10°♄00'43	
opposition	935 Dec 24 j 02:19	7°♁16'42	3°53'08				
	936 Jan 14 j 19:15	30°♁		conjunction	941 May 01 j 16:52	15°♄38'39	0°05'00
direct	936 Feb 01 j 01:22	28°♁03'09		minimum elong	941 May 01 j 16:33	15°♄38'07	0°05'00
	936 Feb 19 j 14:54	0°♁		behind sun begin	941 Apr 30 j 17:21	14°♄57'15	
	936 May 03 j 23:21	0°♁		behind sun end	941 May 02 j 15:46	16°♄18'56	
	936 Jun 25 j 19:24	0°♁			941 May 22 j 08:08	0°♁	
	936 Aug 12 j 10:51	0°♁		max. Earth dist.	941 Jun 04 j 19:13	9°♁11'17	2.54807 AU
desc. node	936 Sep 19 j 13:07	25°♁44'01		morning rise	941 Jun 25 j 20:12	23°♁17'10	
	936 Sep 25 j 15:39	0°♁			941 Jul 06 j 00:29	0°♁	
evening set	936 Oct 21 j 18:47	18°♁41'04			941 Aug 21 j 17:18	0°♁	
	936 Nov 06 j 04:10	0°♁			941 Oct 09 j 13:39	0°♁	
max. Earth dist.	936 Nov 08 j 15:48	1°♁50'50	2.41985 AU		941 Dec 01 j 03:34	0°♁	
	936 Dec 15 j 17:35	0°♁			942 Feb 09 j 16:47	0°♁	
				retrograde	942 Mar 05 j 16:57	3°♁08'24	
conjunction	936 Dec 17 j 15:38	1°♁28'59	0°-50'-32		942 Mar 28 j 00:57	30°♁	
minimum elong	936 Dec 17 j 13:15	1°♁24'23	0°50'31	opposition	942 Apr 10 j 23:15	25°♁24'58	1°26'27
	937 Jan 23 j 03:22	0°♁		greatest brilliancy	942 Apr 11 j 15:06	25°♁10'28	-1.8m
morning rise	937 Feb 21 j 17:10	23°♁17'10		min. Earth dist.	942 Apr 18 j 16:04	22°♁36'04	0.54887 AU
	937 Mar 02 j 06:31	0°♁		desc. node	942 May 12 j 09:06	16°♁32'30	
	937 Apr 10 j 00:16	0°♁		direct	942 May 20 j 19:14	16°♁03'16	
	937 May 20 j 05:21	0°♁			942 Jul 10 j 17:24	0°♁	
	937 Jul 01 j 18:27	0°♁			942 Aug 30 j 21:02	0°♁	
asc. node	937 Jul 19 j 18:46	12°♁04'38			942 Oct 12 j 04:00	0°♁	
	937 Aug 16 j 18:57	0°♁			942 Nov 20 j 18:57	0°♁	
	937 Oct 08 j 16:16	0°♁			942 Dec 29 j 21:21	0°♁	
retrograde	937 Dec 17 j 14:13	21°♁27'21			943 Feb 07 j 17:09	0°♁	
opposition	938 Jan 26 j 14:40	11°♁49'19	4°34'10	asc. node	943 Mar 11 j 16:12	23°♁18'20	
greatest brilliancy	938 Jan 26 j 15:42	11°♁48'16	-1.2m		943 Mar 21 j 01:23	0°♁	
min. Earth dist.	938 Jan 27 j 02:37	11°♁37'23	0.67703 AU	evening set	943 Apr 27 j 04:45	25°♄50'49	
direct	938 Mar 08 j 11:46	1°♁57'45			943 May 03 j 07:11	0°♁	
	938 May 31 j 22:28	0°♁			943 Jun 17 j 09:00	0°♁	
	938 Jul 22 j 13:18	0°♁					
desc. node	938 Aug 07 j 11:43	10°♁12'29		conjunction	943 Jun 18 j 04:54	0°♁32'31	0°51'44
	938 Sep 05 j 21:08	0°♁		minimum elong	943 Jun 18 j 03:27	0°♁30'09	0°51'43
	938 Oct 17 j 14:47	0°♁		max. Earth dist.	943 Jul 03 j 10:54	10°♁27'31	2.63810 AU
	938 Nov 26 j 01:27	0°♁			943 Aug 02 j 21:14	0°♁	
evening set	938 Dec 21 j 15:55	20°♁02'07		morning rise	943 Aug 05 j 00:41	1°♁22'00	
	939 Jan 03 j 06:54	0°♁			943 Sep 19 j 07:56	0°♁	

	943 Nov 06 j 12:18	0°♁		949 Jun 05 j 20:11	0°♁	
	943 Dec 26 j 01:06	0°♁		949 Jul 24 j 03:09	0°♁	
	944 Feb 17 j 19:08	0°♁	evening set	949 Aug 22 j 20:14	19°♁06'45	
desc. node	944 Mar 29 j 08:09	17°♁51'51		949 Sep 08 j 09:09	0°♁	
retrograde	944 May 04 j 10:52	24°♁46'01	max. Earth dist.	949 Sep 12 j 18:57	2°♁55'58	2.58611 AU
opposition	944 Jun 05 j 08:55	19°♁02'19	-3°-51'-45			
greatest brilliancy	944 Jun 06 j 17:15	18°♁37'53	-2.6m	conjunction	949 Oct 08 j 21:19	20°♁35'32 0°24'22
min. Earth dist.	944 Jun 12 j 14:37	16°♁51'50	0.41908 AU	minimum elong	949 Oct 08 j 22:13	20°♁37'05 0°24'20
direct	944 Jul 09 j 15:28	12°♁16'09			949 Oct 22 j 11:49	0°♁
	944 Sep 03 j 19:05	0°♁		desc. node	949 Nov 19 j 05:42	19°♁37'45
	944 Oct 21 j 20:01	0°♁		morning rise	949 Nov 26 j 20:30	25°♁07'18
	944 Dec 03 j 15:34	0°♁			949 Dec 03 j 13:43	0°♁
	945 Jan 14 j 22:11	0°♁			950 Jan 12 j 23:32	0°♁
asc. node	945 Jan 26 j 15:22	8°♁13'42			950 Feb 21 j 06:23	0°♁
	945 Feb 27 j 02:28	0°♁			950 Apr 01 j 04:01	0°♁
	945 Apr 12 j 17:23	0°♁			950 May 10 j 15:22	0°♁
	945 May 28 j 17:23	0°♁			950 Jun 21 j 00:11	0°♁
evening set	945 Jun 09 j 01:56	7°♁18'01			950 Aug 05 j 18:53	0°♁
	945 Jul 14 j 14:48	0°♁		asc. node	950 Sep 18 j 12:45	22°♁50'57
					950 Oct 09 j 11:28	0°♁
conjunction	945 Jul 26 j 06:05	7°♁24'29	1°09'06	retrograde	950 Oct 30 j 22:49	2°♁52'18
minimum elong	945 Jul 26 j 05:53	7°♁24'10	1°09'06		950 Nov 20 j 02:49	30°♁
max. Earth dist.	945 Jul 26 j 08:29	7°♁28'17	2.67460 AU	min. Earth dist.	950 Dec 04 j 19:51	24°♁52'35 0.61288 AU
	945 Aug 30 j 16:58	0°♁		opposition	950 Dec 09 j 16:14	22°♁56'39 3°11'47
morning rise	945 Sep 09 j 00:37	5°♁57'31		greatest brilliancy	950 Dec 08 j 20:38	23°♁16'12 -1.5m
	945 Oct 16 j 09:36	0°♁		direct	951 Jan 16 j 12:35	14°♁06'26
	945 Dec 01 j 10:31	0°♁			951 Mar 17 j 04:18	0°♁
	946 Jan 15 j 21:41	0°♁			951 May 14 j 20:42	0°♁
desc. node	946 Feb 14 j 08:31	19°♁31'05			951 Jul 04 j 16:04	0°♁
	946 Mar 02 j 05:07	0°♁		evening set	951 Aug 20 j 16:57	0°♁
	946 Apr 17 j 14:20	0°♁			951 Oct 03 j 18:50	0°♁00'00
	946 Jun 10 j 06:22	0°♁			951 Oct 03 j 18:49	0°♁
retrograde	946 Jul 23 j 17:33	11°♁05'21		desc. node	951 Oct 07 j 04:40	2°♁23'57
min. Earth dist.	946 Aug 19 j 18:40	6°♁37'48	0.38354 AU	max. Earth dist.	951 Oct 18 j 08:42	10°♁19'50 2.47068 AU
greatest brilliancy	946 Aug 23 j 06:55	5°♁38'36	-2.8m		951 Nov 14 j 09:16	0°♁
opposition	946 Aug 24 j 08:33	5°♁20'29	-6°-8'-5			
direct	946 Sep 23 j 02:42	0°♁14'24		conjunction	951 Nov 25 j 15:11	8°♁22'18 0°-30'-9
	946 Dec 13 j 17:32	0°♁		minimum elong	951 Nov 25 j 13:35	8°♁19'19 0°30'08
asc. node	946 Dec 14 j 13:51	0°♁28'35			951 Dec 24 j 02:40	0°♁
	947 Feb 02 j 01:40	0°♁		morning rise	952 Jan 24 j 16:22	24°♁30'47
	947 Mar 22 j 06:30	0°♁			952 Jan 31 j 16:30	0°♁
	947 May 09 j 06:37	0°♁			952 Mar 09 j 22:48	0°♁
	947 Jun 26 j 04:41	0°♁		greatest brilliancy	952 Mar 21 j 08:10	8°♁52'32 1.2m
evening set	947 Jul 17 j 06:38	13°♁17'26			952 Apr 17 j 18:49	0°♁
	947 Aug 12 j 12:48	0°♁			952 May 28 j 02:37	0°♁
max. Earth dist.	947 Aug 18 j 18:33	4°♁00'13	2.65678 AU		952 Jul 09 j 23:31	0°♁
				asc. node	952 Aug 05 j 11:45	17°♁18'58
conjunction	947 Aug 31 j 21:23	12°♁28'03	0°59'22		952 Aug 26 j 04:05	0°♁
minimum elong	947 Aug 31 j 22:23	12°♁29'41	0°59'21		952 Oct 24 j 16:26	0°♁
	947 Sep 27 j 17:05	0°♁		retrograde	952 Dec 04 j 06:25	8°♁39'14
morning rise	947 Oct 15 j 19:15	12°♁01'10			953 Jan 10 j 12:36	30°♁
	947 Nov 11 j 09:23	0°♁		min. Earth dist.	953 Jan 12 j 09:25	29°♁15'13 0.67167 AU
	947 Dec 24 j 12:29	0°♁		opposition	953 Jan 13 j 10:01	28°♁50'34 4°28'20
desc. node	948 Jan 02 j 07:18	6°♁14'03		greatest brilliancy	953 Jan 13 j 03:27	28°♁57'08 -1.2m
	948 Feb 04 j 07:02	0°♁		direct	953 Feb 22 j 16:24	19°♁10'46
	948 Mar 16 j 02:29	0°♁			953 Apr 11 j 11:09	0°♁
	948 Apr 25 j 17:36	0°♁			953 Jun 11 j 06:52	0°♁
	948 Jun 06 j 18:27	0°♁			953 Jul 30 j 18:15	0°♁
	948 Jul 24 j 21:45	0°♁		desc. node	953 Aug 24 j 03:52	16°♁02'58
retrograde	948 Sep 19 j 09:17	17°♁52'14			953 Sep 13 j 12:13	0°♁
min. Earth dist.	948 Oct 18 j 22:02	11°♁50'54	0.49799 AU		953 Oct 25 j 02:30	0°♁
opposition	948 Oct 26 j 21:08	8°♁55'10	0°-14'-29	evening set	953 Nov 25 j 16:13	23°♁54'36
greatest brilliancy	948 Nov 03 j 14:58	6°♁11'17	-2.2m		953 Dec 03 j 13:23	0°♁
asc. node	948 Oct 31 j 12:44	7°♁14'25			954 Jan 10 j 19:37	0°♁
direct	948 Nov 29 j 23:26	1°♁36'22				
	949 Feb 21 j 12:00	0°♁		conjunction	954 Jan 29 j 01:45	14°♁25'30 -1°-4'-53
	949 Apr 16 j 11:52	0°♁		minimum elong	954 Jan 29 j 02:08	14°♁26'17 1°04'54

	954 Feb 17 j 20:05	0°♄		retrograde	959 Apr 08 j 14:25	2°♁11'49	
max. Earth dist.	954 Feb 22 j 12:36	3°♄40'35	2.37331 AU	desc. node	959 Apr 16 j 00:59	1°♁50'55	
	954 Mar 28 j 12:32	0°♃			959 Apr 27 j 09:06	30°♂♂	
morning rise	954 Apr 09 j 09:33	9°♃00'48		opposition	959 May 12 j 10:30	25°♂♂35'38	-1°-25'-3
	954 May 07 j 16:17	0°♂		greatest brilliancy	959 May 13 j 02:47	25°♂♂22'01	-2.3m
	954 Jun 18 j 23:33	0°♂		min. Earth dist.	959 May 20 j 20:40	22°♂♂47'23	0.46909 AU
asc. node	954 Jun 23 j 10:07	3°♂02'51		direct	959 Jun 18 j 11:56	17°♂♂30'29	
	954 Aug 03 j 01:05	0°♁			959 Aug 03 j 20:24	0°♁	
	954 Sep 21 j 01:48	0°♁			959 Sep 23 j 07:45	0°♁	
	954 Nov 19 j 01:42	0°♂			959 Nov 04 j 13:13	0°♂	
retrograde	955 Jan 08 j 02:44	11°♂58'18			959 Dec 15 j 02:50	0°♄	
opposition	955 Feb 16 j 13:13	2°♂43'24	4°18'52		960 Jan 25 j 00:52	0°♃	
greatest brilliancy	955 Feb 17 j 01:53	2°♂30'55	-1.3m	asc. node	960 Feb 13 j 06:27	13°♃48'24	
min. Earth dist.	955 Feb 19 j 09:49	1°♂35'50	0.66501 AU		960 Mar 07 j 06:17	0°♂	
	955 Feb 23 j 12:31	30°♂♂			960 Apr 20 j 04:46	0°♂	
direct	955 Mar 29 j 21:58	22°♂♂42'02		evening set	960 May 24 j 01:00	22°♂♂22'34	
	955 May 06 j 11:44	0°♂			960 Jun 04 j 17:55	0°♁	
	955 Jul 07 j 04:23	0°♂					
desc. node	955 Jul 12 j 02:13	2°♂54'04		conjunction	960 Jul 11 j 15:44	23°♁45'43	1°05'44
	955 Aug 23 j 11:45	0°♂		minimum elong	960 Jul 11 j 14:58	23°♁44'30	1°05'44
	955 Oct 04 j 20:08	0°♁		max. Earth dist.	960 Jul 17 j 10:41	27°♁27'40	2.66686 AU
	955 Nov 13 j 11:36	0°♁			960 Jul 21 j 10:08	0°♁	
	955 Dec 21 j 18:55	0°♂		morning rise	960 Aug 26 j 05:03	22°♂♂46'54	
	956 Jan 28 j 21:11	0°♄			960 Sep 06 j 13:35	0°♂	
evening set	956 Feb 03 j 13:54	4°♄27'03			960 Oct 23 j 16:23	0°♂	
	956 Mar 07 j 17:37	0°♃			960 Dec 09 j 16:20	0°♂	
					961 Jan 25 j 23:33	0°♁	
conjunction	956 Apr 08 j 22:21	24°♃02'09	0°-19'-47	desc. node	961 Mar 03 j 00:03	22°♁15'19	
minimum elong	956 Apr 08 j 23:48	24°♃04'50	0°19'46		961 Mar 15 j 23:16	0°♁	
	956 Apr 17 j 02:32	0°♂			961 May 12 j 18:28	0°♂	
asc. node	956 May 10 j 10:07	16°♂41'19		retrograde	961 Jun 22 j 18:05	9°♂♂20'07	
max. Earth dist.	956 May 21 j 14:49	24°♂32'14	2.49971 AU	opposition	961 Jul 22 j 22:53	4°♂♂21'27	-6°-50'-4
	956 May 29 j 12:04	0°♂		greatest brilliancy	961 Jul 23 j 04:44	4°♂♂17'35	-2.9m
morning rise	956 Jun 07 j 13:03	6°♂12'06		min. Earth dist.	961 Jul 23 j 13:11	4°♂♂11'59	0.37439 AU
	956 Jul 13 j 03:20	0°♁			961 Aug 12 j 00:23	30°♂♂	
	956 Aug 29 j 03:03	0°♁		direct	961 Aug 21 j 21:45	29°♂♂20'42	
	956 Oct 18 j 02:35	0°♂			961 Aug 31 j 19:45	0°♂	
	956 Dec 14 j 03:22	0°♂			961 Nov 10 j 15:08	0°♄	
retrograde	957 Feb 15 j 13:08	17°♂32'52			961 Dec 28 j 10:56	0°♃	
opposition	957 Mar 25 j 00:27	9°♂16'28	2°39'24	asc. node	961 Dec 31 j 06:11	1°♃49'01	
greatest brilliancy	957 Mar 25 j 22:27	8°♂55'42	-1.6m		962 Feb 12 j 10:25	0°♂	
min. Earth dist.	957 Mar 31 j 13:34	6°♂48'09	0.59298 AU		962 Mar 30 j 17:07	0°♂	
	957 Apr 26 j 04:27	30°♂♂			962 May 16 j 17:10	0°♁	
direct	957 May 04 j 18:52	29°♂♂30'12		evening set	962 Jul 02 j 18:32	29°♂♂46'20	
	957 May 13 j 14:14	0°♂			962 Jul 03 j 03:11	0°♁	
desc. node	957 May 29 j 01:15	2°♂59'47		max. Earth dist.	962 Aug 09 j 12:19	23°♂♂44'15	2.67015 AU
	957 Jul 26 j 19:45	0°♂					
	957 Sep 10 j 16:56	0°♁		conjunction	962 Aug 17 j 15:49	28°♂♂56'38	1°06'12
	957 Oct 21 j 14:37	0°♁		minimum elong	962 Aug 17 j 16:27	28°♂♂57'38	1°06'12
	957 Nov 29 j 13:47	0°♂			962 Aug 19 j 07:25	0°♂	
	958 Jan 07 j 04:57	0°♄		morning rise	962 Oct 01 j 03:12	27°♂♂42'52	
	958 Feb 15 j 14:52	0°♃			962 Oct 04 j 14:54	0°♂	
asc. node	958 Mar 28 j 08:40	29°♃50'46			962 Nov 18 j 17:08	0°♂	
	958 Mar 28 j 13:49	0°♂			963 Jan 01 j 12:43	0°♁	
evening set	958 Apr 07 j 02:28	6°♂47'05		desc. node	963 Jan 18 j 22:51	12°♁09'08	
	958 May 10 j 11:32	0°♂			963 Feb 13 j 05:55	0°♁	
					963 Mar 27 j 06:29	0°♂	
conjunction	958 Jun 01 j 04:18	14°♂♂40'05	0°37'06		963 May 08 j 15:28	0°♄	
minimum elong	958 Jun 01 j 02:47	14°♂♂37'34	0°37'04		963 Jun 23 j 11:20	0°♃	
max. Earth dist.	958 Jun 23 j 03:59	29°♂♂14'12	2.60899 AU	retrograde	963 Aug 31 j 09:15	25°♃17'35	
	958 Jun 24 j 07:54	0°♁		min. Earth dist.	963 Sep 27 j 22:26	20°♃07'38	0.44607 AU
morning rise	958 Jul 21 j 05:25	17°♁28'07		greatest brilliancy	963 Oct 05 j 01:48	17°♃42'07	-2.4m
	958 Aug 09 j 19:43	0°♁		opposition	963 Oct 06 j 01:35	17°♃21'51	-2°-26'-6
	958 Sep 26 j 15:03	0°♂		direct	963 Nov 07 j 05:53	10°♃55'27	
	958 Nov 14 j 22:26	0°♂		asc. node	963 Nov 18 j 06:04	11°♃41'26	
	959 Jan 06 j 14:35	0°♂			964 Jan 10 j 01:03	0°♂	
	959 Mar 19 j 22:38	0°♁			964 Mar 05 j 11:32	0°♂	

	964 Apr 25 j 03:18	0°☉			969 Jan 18 j 07:37	0°♁		
	964 Jun 13 j 06:23	0°♁			969 Feb 25 j 09:32	0°♁		
	964 Jul 31 j 02:00	0°♁	morning rise		969 Mar 10 j 22:28	10°♁35'00		
evening set	964 Aug 08 j 00:41	5°♁04'51			969 Apr 05 j 02:19	0°♁		
max. Earth dist.	964 Sep 02 j 04:55	21°♁23'52	2.61980 AU		969 May 15 j 06:00	0°♁		
	964 Sep 15 j 06:08	0°♁			969 Jun 26 j 15:14	0°♁		
				asc. node	969 Jul 10 j 02:53	9°♁08'28		
conjunction	964 Sep 23 j 03:01	5°♁14'12	0°40'47		969 Aug 11 j 03:52	0°♁		
minimum elong	964 Sep 23 j 04:12	5°♁16'11	0°40'46		969 Oct 01 j 01:50	0°♁		
	964 Oct 29 j 12:58	0°♁		retrograde	969 Dec 25 j 07:50	29°♁11'28		
morning rise	964 Nov 08 j 21:29	7°♁12'33		opposition	970 Feb 03 j 04:07	19°♁40'43	4°31'56	
desc. node	964 Dec 05 j 21:43	26°♁21'43		greatest brilliancy	970 Feb 03 j 09:25	19°♁35'26	-1.2m	
	964 Dec 10 j 22:57	0°♁		min. Earth dist.	970 Feb 04 j 12:10	19°♁08'51	0.67564 AU	
	965 Jan 20 j 18:58	0°♁		direct	970 Mar 16 j 06:31	9°♁44'27		
	965 Mar 01 j 12:33	0°♁			970 May 23 j 23:13	0°♁		
	965 Apr 09 j 20:54	0°♁			970 Jul 16 j 20:09	0°♁		
	965 May 19 j 21:35	0°♁		desc. node	970 Jul 28 j 19:08	7°♁28'58		
	965 Jul 01 j 08:53	0°♁			970 Aug 31 j 18:25	0°♁		
	965 Aug 20 j 03:43	0°♁			970 Oct 12 j 16:50	0°♁		
asc. node	965 Oct 05 j 04:31	16°♁22'43			970 Nov 21 j 05:02	0°♁		
retrograde	965 Oct 15 j 22:45	17°♁09'32			970 Dec 29 j 10:45	0°♁		
min. Earth dist.	965 Nov 17 j 20:32	9°♁51'19	0.57347 AU	evening set	971 Jan 06 j 08:38	6°♁15'22		
greatest brilliancy	965 Nov 23 j 07:54	7°♁42'36	-1.7m		971 Feb 05 j 11:07	0°♁		
opposition	965 Nov 24 j 02:09	7°♁24'41	2°11'20					
	965 Dec 18 j 18:56	30°♁		conjunction	971 Mar 15 j 01:31	29°♁08'03	0°-44'-3	
direct	965 Dec 30 j 15:11	29°♁03'46		minimum elong	971 Mar 15 j 04:32	29°♁13'49	0°44'02	
	966 Jan 12 j 01:55	0°♁			971 Mar 16 j 04:47	0°♁		
	966 Mar 30 j 18:22	0°♁			971 Apr 25 j 10:22	0°♁		
	966 May 23 j 15:03	0°♁		max. Earth dist.	971 May 03 j 22:58	6°♁10'40	2.44670 AU	
	966 Jul 12 j 03:44	0°♁		morning rise	971 May 18 j 19:19	16°♁46'45		
	966 Aug 27 j 19:01	0°♁		asc. node	971 May 28 j 00:57	23°♁16'30		
evening set	966 Sep 16 j 12:55	13°♁14'18			971 Jun 06 j 17:14	0°♁		
max. Earth dist.	966 Oct 02 j 10:37	24°♁08'53	2.52015 AU		971 Jul 21 j 09:36	0°♁		
	966 Oct 10 j 20:17	0°♁			971 Sep 06 j 20:47	0°♁		
desc. node	966 Oct 23 j 20:27	9°♁11'04			971 Oct 28 j 16:24	0°♁		
					972 Jan 06 j 15:55	0°♁		
conjunction	966 Nov 05 j 10:17	18°♁12'08	0°-7'-47	retrograde	972 Jan 31 j 06:21	3°♁17'40		
minimum elong	966 Nov 05 j 09:53	18°♁11'26	0°07'49		972 Feb 23 j 00:57	30°♁		
behind sun begin	966 Nov 04 j 14:22	17°♁36'12		opposition	972 Mar 09 j 16:15	24°♁34'34	3°30'39	
behind sun end	966 Nov 06 j 05:24	18°♁46'42		greatest brilliancy	972 Mar 10 j 13:13	24°♁14'19	-1.4m	
	966 Nov 21 j 14:27	0°♁		min. Earth dist.	972 Mar 14 j 20:04	22°♁35'07	0.62890 AU	
morning rise	966 Dec 30 j 01:45	28°♁51'58		direct	972 Apr 19 j 22:17	14°♁36'04		
	966 Dec 31 j 13:23	0°♁		desc. node	972 Jun 14 j 17:27	29°♁47'03		
	967 Feb 08 j 08:46	0°♁			972 Jun 15 j 04:32	0°♁		
	967 Mar 18 j 19:28	0°♁			972 Aug 07 j 06:22	0°♁		
	967 Apr 26 j 19:06	0°♁			972 Sep 20 j 02:19	0°♁		
	967 Jun 06 j 08:02	0°♁			972 Oct 30 j 07:05	0°♁		
	967 Jul 19 j 18:58	0°♁			972 Dec 07 j 21:18	0°♁		
asc. node	967 Aug 23 j 03:34	21°♁27'52			973 Jan 15 j 05:10	0°♁		
	967 Sep 07 j 05:10	0°♁			973 Feb 23 j 07:45	0°♁		
retrograde	967 Nov 21 j 20:58	25°♁30'08		evening set	973 Mar 15 j 11:11	15°♁02'08		
min. Earth dist.	967 Dec 29 j 11:10	16°♁35'41	0.65634 AU		973 Apr 04 j 23:21	0°♁		
greatest brilliancy	967 Dec 31 j 10:51	15°♁47'48	-1.3m	asc. node	973 Apr 14 j 00:25	6°♁29'23		
opposition	968 Jan 01 j 00:11	15°♁34'24	4°10'09					
direct	968 Feb 09 j 11:33	6°♁10'19		conjunction	973 May 13 j 09:46	27°♁06'42	0°17'56	
	968 Apr 26 j 11:24	0°♁		minimum elong	973 May 13 j 08:47	27°♁05'00	0°17'56	
	968 Jun 20 j 06:37	0°♁			973 May 17 j 14:29	0°♁		
	968 Aug 07 j 11:42	0°♁		max. Earth dist.	973 Jun 12 j 00:57	17°♁14'23	2.57177 AU	
desc. node	968 Sep 09 j 19:38	22°♁19'13			973 Jul 01 j 07:00	0°♁		
	968 Sep 20 j 21:09	0°♁		morning rise	973 Jul 05 j 11:35	2°♁44'55		
	968 Nov 01 j 10:24	0°♁			973 Aug 16 j 20:33	0°♁		
evening set	968 Nov 02 j 15:35	0°♁54'12			973 Oct 04 j 05:14	0°♁		
max. Earth dist.	968 Nov 27 j 02:36	19°♁21'00	2.39369 AU		973 Nov 24 j 06:05	0°♁		
	968 Dec 10 j 23:05	0°♁			974 Jan 22 j 13:47	0°♁		
				retrograde	974 Mar 17 j 02:28	13°♁16'09		
conjunction	969 Jan 01 j 04:32	16°♁32'06	0°-59'-15	opposition	974 Apr 21 j 13:32	5°♁54'12	0°32'29	
minimum elong	969 Jan 01 j 02:29	16°♁28'04	0°59'16	greatest brilliancy	974 Apr 21 j 20:27	5°♁48'02	-2.0m	

min. Earth dist.	974 Apr 29 j 17:01	3°♁00'04	0.52149 AU	evening set	979 Jul 25 j 12:51	21°♁27'48	
desc. node	974 May 02 j 16:01	1°♁59'45			979 Aug 07 j 22:26	0°♁	
	974 May 09 j 04:39	30°♁		max. Earth dist.	979 Aug 24 j 06:16	10°♁29'42	2.64571 AU
direct	974 May 30 j 14:14	26°♁53'42					
	974 Jun 21 j 18:51	0°♁		conjunction	979 Sep 09 j 04:54	20°♁51'31	0°53'36
	974 Aug 22 j 20:02	0°♁		minimum elong	979 Sep 09 j 06:03	20°♁53'24	0°53'36
	974 Oct 05 j 16:04	0°♁			979 Sep 23 j 02:36	0°♁	
	974 Nov 14 j 22:26	0°♁		morning rise	979 Oct 24 j 14:30	21°♁05'55	
	974 Dec 24 j 09:57	0°♁			979 Nov 06 j 15:20	0°♁	
	975 Feb 02 j 12:41	0°♁			979 Dec 19 j 11:55	0°♁	
asc. node	975 Mar 01 j 23:45	19°♁57'22		desc. node	979 Dec 23 j 13:20	2°♁53'58	
	975 Mar 16 j 02:32	0°♁			980 Jan 29 j 21:33	0°♁	
	975 Apr 28 j 12:32	0°♁			980 Mar 10 j 06:24	0°♁	
evening set	975 May 07 j 17:41	6°♁12'23			980 Apr 19 j 07:40	0°♁	
	975 Jun 12 j 17:04	0°♁			980 May 30 j 08:38	0°♁	
					980 Jul 14 j 06:19	0°♁	
conjunction	975 Jun 27 j 08:56	9°♁31'45	0°58'08	retrograde	980 Sep 29 j 13:36	29°♁28'44	
minimum elong	975 Jun 27 j 07:41	9°♁29'43	0°58'08	asc. node	980 Oct 21 j 21:04	25°♁52'09	
max. Earth dist.	975 Jul 09 j 03:16	17°♁07'14	2.65053 AU	min. Earth dist.	980 Oct 30 j 07:46	22°♁58'15	0.52632 AU
	975 Jul 29 j 05:41	0°♁		opposition	980 Nov 06 j 18:11	20°♁09'07	0°46'51
morning rise	975 Aug 13 j 05:41	9°♁33'13		greatest brilliancy	980 Nov 06 j 09:34	20°♁17'19	-2.0m
	975 Sep 14 j 12:43	0°♁		direct	980 Dec 11 j 18:33	12°♁25'37	
	975 Nov 01 j 06:10	0°♁			981 Feb 11 j 21:41	0°♁	
	975 Dec 19 j 15:49	0°♁			981 Apr 10 j 08:41	0°♁	
	976 Feb 08 j 03:28	0°♁			981 May 31 j 16:54	0°♁	
desc. node	976 Mar 19 j 15:46	21°♁31'41			981 Jul 19 j 09:19	0°♁	
	976 Apr 07 j 20:34	0°♁		evening set	981 Aug 31 j 12:52	27°♁51'04	
retrograde	976 May 21 j 13:09	9°♁50'33			981 Sep 03 j 18:46	0°♁	
opposition	976 Jun 21 j 09:36	4°♁33'17	-5°-15'-45	max. Earth dist.	981 Sep 19 j 10:39	10°♁28'43	2.56442 AU
greatest brilliancy	976 Jun 22 j 17:17	4°♁10'46	-2.7m		981 Oct 17 j 21:11	0°♁	
min. Earth dist.	976 Jun 26 j 22:33	2°♁59'00	0.39645 AU				
	976 Jul 09 j 05:53	30°♁		conjunction	981 Oct 18 j 09:27	0°♁21'24	0°13'24
direct	976 Jul 23 j 23:49	28°♁33'36		minimum elong	981 Oct 18 j 10:00	0°♁22'22	0°13'23
	976 Aug 07 j 12:51	0°♁		behind sun begin	981 Oct 17 j 22:10	0°♁01'43	
	976 Oct 11 j 18:37	0°♁		behind sun end	981 Oct 18 j 21:50	0°♁43'01	
	976 Nov 26 j 04:58	0°♁		desc. node	981 Nov 09 j 13:07	16°♁01'34	
	977 Jan 08 j 16:25	0°♁			981 Nov 28 j 20:26	0°♁	
asc. node	977 Jan 16 j 22:07	5°♁40'25		morning rise	981 Dec 08 j 00:58	6°♁45'09	
	977 Feb 21 j 14:06	0°♁			982 Jan 08 j 02:07	0°♁	
	977 Apr 07 j 15:58	0°♁			982 Feb 16 j 04:26	0°♁	
	977 May 23 j 22:55	0°♁			982 Mar 26 j 21:16	0°♁	
evening set	977 Jun 17 j 21:09	15°♁55'44			982 May 05 j 02:56	0°♁	
	977 Jul 09 j 23:54	0°♁			982 Jun 15 j 01:43	0°♁	
max. Earth dist.	977 Jul 31 j 14:14	13°♁44'08	2.67523 AU		982 Jul 29 j 15:23	0°♁	
				asc. node	982 Sep 08 j 19:09	23°♁36'13	
conjunction	977 Aug 03 j 11:29	15°♁34'20	1°09'10		982 Sep 22 j 09:15	0°♁	
minimum elong	977 Aug 03 j 11:37	15°♁34'31	1°09'10	retrograde	982 Nov 08 j 03:10	11°♁40'41	
	977 Aug 26 j 02:10	0°♁		min. Earth dist.	982 Dec 14 j 00:22	3°♁20'07	0.63115 AU
morning rise	977 Sep 17 j 00:21	14°♁04'14		greatest brilliancy	982 Dec 17 j 07:03	2°♁01'21	-1.4m
	977 Oct 11 j 15:05	0°♁		opposition	982 Dec 18 j 01:20	1°♁43'01	3°38'00
	977 Nov 26 j 06:53	0°♁			982 Dec 22 j 09:32	30°♁	
	978 Jan 10 j 01:35	0°♁		direct	983 Jan 25 j 12:44	22°♁39'19	
desc. node	978 Feb 04 j 14:42	17°♁19'26			983 Mar 04 j 16:13	0°♁	
	978 Feb 23 j 05:17	0°♁			983 May 08 j 12:57	0°♁	
	978 Apr 08 j 09:56	0°♁			983 Jun 29 j 11:32	0°♁	
	978 May 25 j 00:04	0°♁			983 Aug 15 j 21:53	0°♁	
retrograde	978 Aug 07 j 20:48	28°♁26'13		desc. node	983 Sep 27 j 12:09	28°♁52'17	
min. Earth dist.	978 Sep 03 j 12:11	23°♁53'39	0.40074 AU		983 Sep 29 j 02:51	0°♁	
greatest brilliancy	978 Sep 08 j 16:15	22°♁19'48	-2.7m	evening set	983 Oct 14 j 06:44	10°♁44'28	
opposition	978 Sep 10 j 00:50	21°♁55'01	-4°-55'-49	max. Earth dist.	983 Oct 29 j 19:51	21°♁59'02	2.44254 AU
direct	978 Oct 10 j 09:37	16°♁24'33			983 Nov 09 j 17:22	0°♁	
	978 Nov 30 j 10:53	0°♁					
asc. node	978 Dec 04 j 21:20	2°♁02'54		conjunction	983 Dec 08 j 05:11	21°♁25'58	0°-42'-17
	979 Jan 25 j 13:02	0°♁		minimum elong	983 Dec 08 j 03:00	21°♁21'49	0°42'16
	979 Mar 16 j 09:45	0°♁			983 Dec 19 j 09:18	0°♁	
	979 May 04 j 03:48	0°♁			984 Jan 26 j 21:10	0°♁	
	979 Jun 21 j 10:44	0°♁		morning rise	984 Feb 09 j 15:41	10°♁49'53	

	984 Mar 05 j 01:19	0°♄		direct	989 May 13 j 17:27	9°♁08'15	
	984 Apr 12 j 19:06	0°♃		desc. node	989 May 19 j 08:10	9°♁20'40	
	984 May 22 j 23:56	0°♂			989 Jul 17 j 20:32	0°♆	
	984 Jul 04 j 13:58	0°♁			989 Sep 04 j 05:03	0°♂	
asc. node	984 Jul 26 j 17:50	14°♁44'12			989 Oct 15 j 20:04	0°♄	
	984 Aug 19 j 22:07	0°♃			989 Nov 24 j 03:31	0°♁	
	984 Oct 13 j 13:46	0°♁			990 Jan 01 j 23:58	0°♄	
retrograde	984 Dec 11 j 22:34	16°♁29'58			990 Feb 10 j 14:02	0°♃	
opposition	985 Jan 21 j 00:28	6°♁46'39	4°33'09	asc. node	990 Mar 18 j 15:22	26°♃22'50	
greatest brilliancy	985 Jan 20 j 22:03	6°♁49'05	-1.2m		990 Mar 23 j 16:46	0°♄	
min. Earth dist.	985 Jan 20 j 19:53	6°♁51'15	0.67597 AU	evening set	990 Apr 18 j 19:01	18°♂21'24	
	985 Feb 09 j 01:17	30°♁♂			990 May 05 j 17:25	0°♁	
direct	985 Mar 02 j 15:17	26°♃59'52					
	985 Mar 26 j 02:36	0°♁		conjunction	990 Jun 11 j 01:51	24°♁21'43	0°46'08
	985 Jun 04 j 17:47	0°♆		minimum elong	990 Jun 11 j 00:19	24°♁19'12	0°46'06
	985 Jul 25 j 10:29	0°♁			990 Jun 19 j 15:39	0°♃	
desc. node	985 Aug 14 j 10:36	12°♁57'24		max. Earth dist.	990 Jun 29 j 04:26	6°♃13'42	2.62607 AU
	985 Sep 08 j 13:42	0°♆		morning rise	990 Jul 29 j 19:09	25°♃58'17	
	985 Oct 20 j 07:03	0°♂			990 Aug 05 j 02:37	0°♁	
	985 Nov 28 j 18:37	0°♄			990 Sep 21 j 16:06	0°♆	
evening set	985 Dec 09 j 22:57	8°♄42'09			990 Nov 09 j 06:32	0°♁	
	986 Jan 06 j 00:47	0°♁			990 Dec 29 j 21:32	0°♆	
	986 Feb 13 j 00:55	0°♄			991 Feb 25 j 15:33	0°♂	
				desc. node	991 Apr 06 j 07:02	13°♂14'28	
conjunction	986 Feb 14 j 10:12	1°♄05'20	-1°-1'-15	retrograde	991 Apr 23 j 03:23	14°♂53'31	
minimum elong	986 Feb 14 j 12:17	1°♄09'27	1°01'16	opposition	991 May 25 j 22:53	8°♂46'07	-2°-46'00
	986 Mar 23 j 17:05	0°♃		greatest brilliancy	991 May 27 j 02:27	8°♂24'14	-2.4m
max. Earth dist.	986 Apr 03 j 10:10	8°♃08'06	2.39407 AU	min. Earth dist.	991 Jun 02 j 23:46	6°♂14'00	0.44062 AU
morning rise	986 Apr 24 j 14:49	23°♃57'31		direct	991 Jun 30 j 14:01	1°♂22'24	
	986 May 02 j 20:27	0°♄			991 Sep 13 j 13:49	0°♄	
asc. node	986 Jun 13 j 18:07	29°♂46'30			991 Oct 28 j 05:05	0°♁	
	986 Jun 14 j 01:56	0°♁			991 Dec 08 j 19:52	0°♄	
	986 Jul 28 j 21:52	0°♃			992 Jan 19 j 09:02	0°♃	
	986 Sep 15 j 03:46	0°♁		asc. node	992 Feb 03 j 14:37	10°♃49'30	
	986 Nov 09 j 07:28	0°♆			992 Mar 02 j 01:06	0°♄	
retrograde	987 Jan 16 j 07:10	19°♆53'34			992 Apr 15 j 06:55	0°♁	
opposition	987 Feb 24 j 10:02	10°♆48'46	4°05'07		992 May 31 j 00:59	0°♃	
greatest brilliancy	987 Feb 25 j 02:14	10°♆32'54	-1.3m	evening set	992 Jun 02 j 07:33	1°♃28'13	
min. Earth dist.	987 Feb 28 j 02:20	9°♆22'16	0.65494 AU		992 Jul 16 j 19:24	0°♁	
direct	987 Apr 06 j 19:29	0°♆46'36					
	987 Jun 30 j 02:35	0°♁		conjunction	992 Jul 20 j 01:39	2°♁04'39	1°08'11
desc. node	987 Jul 02 j 09:20	1°♁16'31		minimum elong	992 Jul 20 j 01:12	2°♁03'57	1°08'10
	987 Aug 17 j 20:15	0°♆		max. Earth dist.	992 Jul 22 j 17:41	3°♁46'39	2.67218 AU
	987 Sep 29 j 15:13	0°♂			992 Sep 01 j 21:55	0°♆	
	987 Nov 08 j 10:42	0°♄		morning rise	992 Sep 03 j 03:02	0°♆46'24	
	987 Dec 16 j 20:02	0°♁			992 Oct 18 j 19:00	0°♁	
	988 Jan 23 j 23:38	0°♄			992 Dec 04 j 05:22	0°♆	
evening set	988 Feb 19 j 00:04	20°♄09'56			993 Jan 19 j 09:42	0°♂	
	988 Mar 02 j 21:24	0°♃		desc. node	993 Feb 21 j 07:15	21°♂15'35	
	988 Apr 12 j 07:48	0°♄			993 Mar 06 j 23:50	0°♄	
					993 Apr 25 j 05:25	0°♁	
conjunction	988 Apr 22 j 04:29	7°♄06'32	0°-5'-23	retrograde	993 Jul 10 j 18:42	27°♁41'38	
minimum elong	988 Apr 22 j 04:50	7°♄07'09	0°05'24	min. Earth dist.	993 Aug 08 j 00:09	23°♁04'56	0.37551 AU
behind sun begin	988 Apr 21 j 04:57	6°♄24'22		opposition	993 Aug 10 j 10:38	22°♁25'37	-6°-43'-47
behind sun end	988 Apr 23 j 04:42	7°♄49'54		greatest brilliancy	993 Aug 09 j 21:10	22°♁34'41	-2.9m
asc. node	988 Apr 30 j 17:11	13°♄11'22		direct	993 Sep 08 j 23:13	17°♁30'03	
	988 May 24 j 18:09	0°♁			993 Oct 26 j 13:43	0°♄	
max. Earth dist.	988 May 30 j 03:57	3°♁43'00	2.52721 AU		993 Dec 20 j 01:54	0°♃	
morning rise	988 Jun 18 j 05:05	16°♁37'47		asc. node	993 Dec 21 j 13:34	0°♃54'19	
	988 Jul 08 j 08:35	0°♃			994 Feb 06 j 01:15	0°♄	
	988 Aug 24 j 02:35	0°♁			994 Mar 25 j 06:30	0°♁	
	988 Oct 12 j 07:46	0°♆			994 May 11 j 18:44	0°♃	
	988 Dec 05 j 07:19	0°♁			994 Jun 28 j 10:58	0°♁	
retrograde	989 Feb 25 j 14:28	26°♁42'06		evening set	994 Jul 11 j 02:19	7°♁58'43	
opposition	989 Apr 03 j 10:25	18°♁42'52	2°00'02		994 Aug 14 j 17:30	0°♆	
greatest brilliancy	989 Apr 04 j 05:52	18°♁24'47	-1.7m	max. Earth dist.	994 Aug 14 j 19:49	0°♆03'41	2.66384 AU
min. Earth dist.	989 Apr 10 j 15:08	16°♁02'19	0.56969 AU				

conjunction	994 Aug 25 j 18:35	7°♍05'25	1°02'40		999 Nov 04 j 18:50	0°♋	
minimum elong	994 Aug 25 j 19:27	7°♍06'48	1°02'40	retrograde	999 Nov 29 j 14:42	3°♋33'48	
	994 Sep 29 j 23:51	0°♌			999 Dec 22 j 14:39	30°♋♌	
morning rise	994 Oct 09 j 10:02	6°♌13'12		min. Earth dist.	1000 Jan 07 j 00:58	24°♌22'48	0.66602 AU
	994 Nov 13 j 21:05	0°♌		opposition	1000 Jan 08 j 18:14	23°♌41'21	4°22'22
	994 Dec 27 j 07:56	0°♌		greatest brilliancy	1000 Jan 08 j 08:26	23°♌51'12	-1.3m
desc. node	995 Jan 09 j 06:11	9°♌06'34		direct	1000 Feb 17 j 16:20	14°♌08'13	
	995 Feb 07 j 12:10	0°♌			1000 Apr 17 j 14:50	0°♋	
	995 Mar 20 j 19:17	0°♌			1000 Jun 14 j 11:11	0°♌	
	995 May 01 j 00:52	0°♌			1000 Aug 02 j 10:31	0°♌	
	995 Jun 13 j 04:28	0°♌		desc. node	1000 Aug 31 j 02:41	18°♌59'35	
	995 Aug 05 j 05:07	0°♌			1000 Sep 16 j 02:10	0°♌	
retrograde	995 Sep 12 j 03:41	9°♌00'23			1000 Oct 27 j 17:17	0°♌	
min. Earth dist.	995 Oct 10 j 17:09	3°♌22'19	0.47455 AU	evening set	1000 Nov 15 j 06:35	13°♌55'41	
opposition	995 Oct 18 j 21:24	0°♌27'16	-1°-7'-2		1000 Dec 06 j 05:39	0°♌	
greatest brilliancy	995 Oct 18 j 09:23	0°♌38'02	-2.3m	max. Earth dist.	1000 Dec 29 j 11:13	18°♌07'29	2.37433 AU
	995 Oct 20 j 04:00	30°♌♍			1001 Jan 13 j 13:09	0°♌	
asc. node	995 Nov 08 j 12:02	24°♌35'35		conjunction	1001 Jan 16 j 13:47	2°♌23'17	-1°-4'-13
direct	995 Nov 21 j 04:13	23°♌30'42		minimum elong	1001 Jan 16 j 12:53	2°♌21'31	1°04'14
	995 Dec 25 j 08:53	0°♌			1001 Feb 20 j 13:57	0°♌	
	996 Feb 27 j 04:19	0°♌		morning rise	1001 Mar 27 j 19:43	27°♌23'06	
	996 Apr 19 j 12:36	0°♌			1001 Mar 31 j 05:41	0°♌	
	996 Jun 08 j 07:32	0°♌			1001 May 10 j 08:11	0°♌	
evening set	996 Aug 16 j 10:36	13°♌28'47			1001 Jun 21 j 14:32	0°♌	
max. Earth dist.	996 Sep 08 j 06:02	28°♌23'54	2.60219 AU	asc. node	1001 Jun 30 j 09:33	6°♌00'53	
	996 Sep 10 j 16:05	0°♌			1001 Aug 05 j 18:18	0°♌	
					1001 Sep 24 j 08:13	0°♌	
conjunction	996 Oct 01 j 23:42	14°♌17'12	0°31'42		1001 Nov 26 j 12:23	0°♌	
minimum elong	996 Oct 02 j 00:46	14°♌19'00	0°31'41	retrograde	1002 Jan 02 j 04:59	6°♌58'03	
	996 Oct 24 j 21:31	0°♌			1002 Feb 04 j 15:20	30°♌♍	
morning rise	996 Nov 18 j 20:14	17°♌32'54		opposition	1002 Feb 10 j 19:46	27°♌35'38	4°25'38
desc. node	996 Nov 26 j 04:43	22°♌48'26		greatest brilliancy	1002 Feb 11 j 05:12	27°♌26'17	-1.2m
	996 Dec 06 j 03:59	0°♌		min. Earth dist.	1002 Feb 12 j 23:39	26°♌44'15	0.67099 AU
	997 Jan 15 j 18:50	0°♌		direct	1002 Mar 24 j 01:52	17°♌36'04	
	997 Feb 24 j 06:41	0°♌			1002 May 14 j 03:05	0°♌	
	997 Apr 04 j 08:35	0°♌			1002 Jul 10 j 17:46	0°♌	
	997 May 14 j 00:12	0°♌		desc. node	1002 Jul 19 j 01:01	5°♌02'17	
	997 Jun 24 j 16:54	0°♌			1002 Aug 26 j 11:27	0°♌	
	997 Aug 10 j 13:48	0°♌			1002 Oct 07 j 16:48	0°♌	
asc. node	997 Sep 25 j 11:45	21°♌35'56			1002 Nov 16 j 07:35	0°♌	
retrograde	997 Oct 24 j 16:12	26°♌46'17			1002 Dec 24 j 14:31	0°♌	
min. Earth dist.	997 Nov 27 j 16:23	19°♌04'30	0.59620 AU	greatest brilliancy	1003 Jan 13 j 15:51	15°♌50'31	1.2m
greatest brilliancy	997 Dec 02 j 08:09	17°♌13'46	-1.6m	evening set	1003 Jan 22 j 06:53	22°♌38'29	
opposition	997 Dec 03 j 04:07	16°♌53'57	2°49'09		1003 Jan 31 j 15:38	0°♌	
direct	998 Jan 09 j 10:35	8°♌16'09			1003 Mar 11 j 09:53	0°♌	
	998 Mar 22 j 14:26	0°♌		conjunction	1003 Mar 30 j 01:01	14°♌03'01	0°-30'-36
	998 May 17 j 22:06	0°♌		minimum elong	1003 Mar 30 j 03:17	14°♌07'16	0°30'35
	998 Jul 07 j 04:26	0°♌			1003 Apr 20 j 16:03	0°♌	
evening set	998 Sep 26 j 03:45	23°♌00'13		max. Earth dist.	1003 May 15 j 09:39	17°♌44'20	2.47628 AU
	998 Oct 06 j 05:07	0°♌		asc. node	1003 May 18 j 09:00	19°♌50'05	
max. Earth dist.	998 Oct 11 j 02:26	3°♌26'01	2.49331 AU	morning rise	1003 May 30 j 21:51	28°♌35'16	
desc. node	998 Oct 14 j 03:44	5°♌35'23			1003 Jun 01 j 22:49	0°♌	
					1003 Jul 16 j 12:50	0°♌	
conjunction	998 Nov 16 j 13:13	29°♌43'14	0°-20'-34		1003 Sep 01 j 15:16	0°♌	
minimum elong	998 Nov 16 j 12:09	29°♌41'17	0°20'35		1003 Oct 22 j 04:58	0°♌	
	998 Nov 16 j 22:19	0°♌			1003 Dec 21 j 08:21	0°♌	
	998 Dec 26 j 18:47	0°♌		retrograde	1004 Feb 09 j 09:14	11°♌46'43	
morning rise	999 Jan 13 j 00:43	13°♌17'45		opposition	1004 Mar 18 j 06:59	3°♌17'39	3°02'58
	999 Feb 03 j 11:24	0°♌		greatest brilliancy	1004 Mar 19 j 04:57	2°♌56'39	-1.5m
	999 Mar 13 j 19:29	0°♌		min. Earth dist.	1004 Mar 24 j 05:05	1°♌01'55	0.61012 AU
	999 Apr 21 j 16:15	0°♌			1004 Mar 26 j 23:33	30°♌♍	
	999 Jun 01 j 00:52	0°♌		direct	1004 Apr 28 j 07:12	23°♌24'39	
	999 Jul 14 j 00:54	0°♌			1004 Jun 01 j 18:39	0°♌	
asc. node	999 Aug 13 j 11:16	19°♌35'49		desc. node	1004 Jun 04 j 23:57	1°♌09'35	
	999 Aug 30 j 20:48	0°♌			1004 Jul 31 j 08:30	0°♌	



	1004 Sep 14 j 06:57	0°♁			1009 Oct 06 j 21:47	0°♁		
	1004 Oct 24 j 21:13	0°♁			1009 Nov 21 j 06:13	0°♁		
	1004 Dec 02 j 16:24	0°♁			1010 Jan 04 j 11:54	0°♁		
	1005 Jan 10 j 03:51	0°♁		desc. node	1010 Jan 25 j 21:30	14°♁45'39		
evening set	1005 Feb 18 j 09:28	0°♁			1010 Feb 16 j 19:00	0°♁		
	1005 Mar 28 j 15:00	28°♁10'18			1010 Mar 31 j 14:54	0°♁		
	1005 Mar 31 j 03:56	0°♁			1010 May 14 j 06:58	0°♁		
asc. node	1005 Apr 04 j 07:59	2°♁59'28			1010 Jul 03 j 01:48	0°♁		
	1005 May 12 j 21:17	0°♁		retrograde	1010 Aug 21 j 16:34	14°♁34'08		
conjunction	1005 May 24 j 07:57	7°♁48'06	0°29'30	min. Earth dist.	1010 Sep 17 j 13:49	9°♁44'21	0.42422 AU	
minimum elong	1005 May 24 j 06:34	7°♁45'47	0°29'30	greatest brilliancy	1010 Sep 24 j 00:58	7°♁39'00	-2.6m	
max. Earth dist.	1005 Jun 18 j 14:46	24°♁43'47	2.59330 AU	opposition	1010 Sep 25 j 07:04	7°♁14'32	-3°-30'-40	
	1005 Jun 26 j 14:37	0°♁		direct	1010 Oct 26 j 14:33	1°♁13'37		
morning rise	1005 Jul 14 j 14:44	11°♁44'49		asc. node	1010 Nov 25 j 05:18	6°♁19'43		
	1005 Aug 12 j 01:53	0°♁			1011 Jan 16 j 16:59	0°♁		
	1005 Sep 29 j 01:42	0°♁			1011 Mar 10 j 03:40	0°♁		
	1005 Nov 17 j 23:48	0°♁			1011 Apr 28 j 21:00	0°♁		
	1006 Jan 11 j 16:47	0°♁		evening set	1011 Jun 16 j 14:40	0°♁		
retrograde	1006 Mar 29 j 08:17	24°♁05'34			1011 Aug 02 j 19:44	29°♁41'40		
desc. node	1006 Apr 22 j 23:47	20°♁21'03		max. Earth dist.	1011 Aug 03 j 07:14	0°♁		
opposition	1006 May 02 j 23:12	17°♁07'40	0°-30'-50		1011 Aug 29 j 22:59	17°♁10'18	2.63247 AU	
greatest brilliancy	1006 May 03 j 05:28	17°♁02'16	-2.1m	conjunction	1011 Sep 17 j 15:54	29°♁26'20	0°46'36	
min. Earth dist.	1006 May 11 j 09:48	14°♁13'21	0.49275 AU	minimum elong	1011 Sep 17 j 17:06	29°♁28'18	0°46'36	
direct	1006 Jun 10 j 00:05	8°♁34'48			1011 Sep 18 j 12:16	0°♁		
	1006 Aug 12 j 20:47	0°♁			1011 Nov 01 j 22:34	0°♁		
	1006 Sep 28 j 11:39	0°♁		morning rise	1011 Nov 02 j 17:13	0°♁32'08		
	1006 Nov 08 j 16:18	0°♁		desc. node	1011 Dec 13 j 20:33	29°♁28'35		
	1006 Dec 18 j 16:22	0°♁			1011 Dec 14 j 14:04	0°♁		
asc. node	1007 Jan 28 j 03:55	0°♁			1012 Jan 24 j 16:27	0°♁		
	1007 Feb 20 j 05:35	16°♁40'38			1012 Mar 04 j 16:37	0°♁		
	1007 Mar 11 j 00:48	0°♁			1012 Apr 13 j 07:32	0°♁		
	1007 Apr 23 j 16:15	0°♁			1012 May 23 j 16:05	0°♁		
evening set	1007 May 17 j 19:10	16°♁05'00			1012 Jul 05 j 20:39	0°♁		
	1007 Jun 08 j 00:30	0°♁			1012 Aug 28 j 05:25	0°♁		
conjunction	1007 Jul 06 j 05:28	18°♁14'14	1°03'05	retrograde	1012 Oct 09 j 03:02	10°♁16'58		
minimum elong	1007 Jul 06 j 04:29	18°♁12'39	1°03'04	asc. node	1012 Oct 12 j 03:46	10°♁12'58		
max. Earth dist.	1007 Jul 14 j 14:20	23°♁36'19	2.66072 AU	min. Earth dist.	1012 Nov 10 j 02:22	3°♁19'10	0.55321 AU	
	1007 Jul 24 j 14:19	0°♁		opposition	1012 Nov 16 j 21:36	0°♁40'59	1°39'04	
morning rise	1007 Aug 21 j 06:53	17°♁37'36		greatest brilliancy	1012 Nov 16 j 05:59	0°♁56'10	-1.8m	
	1007 Sep 09 j 18:59	0°♁			1012 Nov 18 j 16:07	30°♁		
	1007 Oct 27 j 03:43	0°♁		direct	1012 Dec 22 j 18:18	22°♁35'45		
	1007 Dec 13 j 16:50	0°♁			1013 Jan 29 j 09:44	0°♁		
	1008 Jan 31 j 03:43	0°♁			1013 Apr 03 j 16:26	0°♁		
desc. node	1008 Mar 09 j 22:47	22°♁48'18			1013 May 26 j 08:48	0°♁		
	1008 Mar 23 j 01:16	0°♁			1013 Jul 14 j 13:09	0°♁		
retrograde	1008 Jun 08 j 09:39	26°♁20'49		evening set	1013 Aug 30 j 03:01	0°♁		
opposition	1008 Jul 08 j 17:13	21°♁20'18	-6°-22'-21	max. Earth dist.	1013 Sep 09 j 13:08	6°♁56'30		
greatest brilliancy	1008 Jul 09 j 13:48	21°♁06'23	-2.8m		1013 Sep 26 j 17:50	18°♁35'15	2.54079 AU	
min. Earth dist.	1008 Jul 11 j 17:52	20°♁31'15	0.38073 AU		1013 Oct 13 j 05:56	0°♁		
direct	1008 Aug 08 j 15:40	15°♁59'35		conjunction	1013 Oct 28 j 10:08	10°♁41'40	0°01'30	
	1008 Sep 27 j 05:14	0°♁		minimum elong	1013 Oct 28 j 10:11	10°♁41'44	0°01'29	
	1008 Nov 17 j 13:03	0°♁		behind sun begin	1013 Oct 27 j 13:00	10°♁04'07		
	1009 Jan 01 j 22:27	0°♁		behind sun end	1013 Oct 29 j 07:21	11°♁19'24		
asc. node	1009 Jan 07 j 05:02	3°♁32'09		desc. node	1013 Oct 30 j 19:27	12°♁23'43		
	1009 Feb 15 j 19:29	0°♁			1013 Nov 24 j 03:32	0°♁		
	1009 Apr 02 j 11:14	0°♁		morning rise	1013 Dec 20 j 02:24	19°♁17'00		
	1009 May 19 j 02:34	0°♁			1014 Jan 03 j 06:13	0°♁		
evening set	1009 Jun 26 j 11:55	24°♁23'41			1014 Feb 11 j 04:58	0°♁		
	1009 Jul 05 j 08:03	0°♁			1014 Mar 21 j 18:14	0°♁		
max. Earth dist.	1009 Aug 05 j 19:54	20°♁00'24	2.67351 AU		1014 Apr 29 j 19:30	0°♁		
					1014 Jun 09 j 10:46	0°♁		
conjunction	1009 Aug 11 j 15:17	23°♁42'31	1°07'54		1014 Jul 23 j 04:58	0°♁		
minimum elong	1009 Aug 11 j 15:43	23°♁43'12	1°07'54	asc. node	1014 Aug 30 j 02:25	23°♁02'39		
	1009 Aug 21 j 11:34	0°♁			1014 Sep 12 j 01:30	0°♁		
morning rise	1009 Sep 25 j 01:29	22°♁17'06		retrograde	1014 Nov 16 j 02:00	20°♁09'21		

min. Earth dist.	1014 Dec 22 j 22:09	11°♄29'40	0.64625 AU	conjunction	1020 May 04 j 13:51	19°♄15'47	0°08'29
greatest brilliancy	1014 Dec 25 j 11:42	10°♄27'53	-1.4m	minimum elong	1020 May 04 j 13:19	19°♄14'52	0°08'29
opposition	1014 Dec 26 j 03:39	10°♄11'51	3°58'43	behind sun begin	1020 May 03 j 16:43	18°♄38'44	
direct	1015 Feb 03 j 04:50	0°♄56'26		behind sun end	1020 May 05 j 09:56	19°♄50'58	
	1015 May 01 j 14:21	0°♄			1020 May 20 j 00:37	0°♄	
	1015 Jun 24 j 02:29	0°♄		max. Earth dist.	1020 Jun 06 j 23:19	12°♄14'37	2.55274 AU
	1015 Aug 11 j 00:35	0°♄		morning rise	1020 Jun 28 j 07:02	26°♄29'31	
desc. node	1015 Sep 17 j 18:15	25°♄23'06			1020 Jul 03 j 14:43	0°♄	
	1015 Sep 24 j 09:19	0°♄			1020 Aug 19 j 04:49	0°♄	
evening set	1015 Oct 25 j 13:02	22°♄17'38			1020 Oct 06 j 20:20	0°♄	
	1015 Nov 05 j 00:22	0°♄			1020 Nov 27 j 20:42	0°♄	
max. Earth dist.	1015 Nov 13 j 05:29	6°♄06'54	2.41452 AU		1021 Feb 01 j 04:20	0°♄	
	1015 Dec 14 j 15:15	0°♄		retrograde	1021 Mar 08 j 08:08	6°♄20'17	
					1021 Apr 09 j 18:12	30°♄	
conjunction	1015 Dec 21 j 22:05	5°♄38'12	0°-52'-57	opposition	1021 Apr 13 j 10:49	28°♄40'30	1°12'51
minimum elong	1015 Dec 21 j 19:43	5°♄33'37	0°52'57	greatest brilliancy	1021 Apr 14 j 00:33	28°♄27'58	-1.8m
	1016 Jan 22 j 01:35	0°♄		min. Earth dist.	1021 Apr 21 j 05:21	25°♄50'46	0.54391 AU
morning rise	1016 Feb 26 j 13:47	27°♄57'11		desc. node	1021 May 09 j 14:58	20°♄37'43	
	1016 Feb 29 j 04:24	0°♄		direct	1021 May 23 j 02:36	19°♄22'33	
	1016 Apr 07 j 20:56	0°♄			1021 Jul 05 j 16:35	0°♄	
	1016 May 17 j 23:50	0°♄			1021 Aug 27 j 23:22	0°♄	
	1016 Jun 29 j 09:16	0°♄			1021 Oct 09 j 17:04	0°♄	
asc. node	1016 Jul 17 j 02:15	11°♄56'08			1021 Nov 18 j 12:04	0°♄	
	1016 Aug 14 j 02:45	0°♄			1021 Dec 27 j 15:53	0°♄	
	1016 Oct 05 j 02:28	0°♄			1022 Feb 05 j 11:37	0°♄	
retrograde	1016 Dec 19 j 14:41	24°♄14'29		asc. node	1022 Mar 08 j 23:00	22°♄58'39	
opposition	1017 Jan 28 j 13:37	14°♄37'34	4°33'47		1022 Mar 18 j 18:54	0°♄	
greatest brilliancy	1017 Jan 28 j 15:26	14°♄35'45	-1.2m	evening set	1022 Apr 29 j 19:28	29°♄12'45	
min. Earth dist.	1017 Jan 29 j 04:56	14°♄22'17	0.67706 AU		1022 Apr 30 j 23:15	0°♄	
direct	1017 Mar 10 j 11:13	4°♄45'08			1022 Jun 14 j 23:36	0°♄	
	1017 May 28 j 12:10	0°♄					
	1017 Jul 19 j 22:14	0°♄		conjunction	1022 Jun 20 j 13:08	3°♄38'06	0°53'38
desc. node	1017 Aug 04 j 17:44	10°♄02'50		minimum elong	1022 Jun 20 j 11:44	3°♄35'49	0°53'38
	1017 Sep 03 j 13:17	0°♄		max. Earth dist.	1022 Jul 05 j 00:38	13°♄02'15	2.64056 AU
	1017 Oct 15 j 10:40	0°♄			1022 Jul 31 j 10:31	0°♄	
	1017 Nov 23 j 23:12	0°♄		morning rise	1022 Aug 07 j 03:41	4°♄16'53	
evening set	1017 Dec 25 j 03:54	24°♄25'42			1022 Sep 16 j 19:41	0°♄	
	1018 Jan 01 j 05:13	0°♄			1022 Nov 03 j 21:04	0°♄	
	1018 Feb 08 j 05:12	0°♄			1022 Dec 23 j 02:19	0°♄	
					1023 Feb 13 j 19:28	0°♄	
conjunction	1018 Mar 02 j 19:44	17°♄38'33	0°-52'-49	desc. node	1023 Mar 27 j 14:29	19°♄34'01	
minimum elong	1018 Mar 02 j 22:47	17°♄44'28	0°52'49	retrograde	1023 May 09 j 04:07	28°♄48'47	
	1018 Mar 18 j 21:22	0°♄		opposition	1023 Jun 09 j 19:22	23°♄10'41	-4°-11'-48
max. Earth dist.	1018 Apr 22 j 23:23	26°♄17'47	2.42252 AU	greatest brilliancy	1023 Jun 11 j 05:00	22°♄45'33	-2.6m
	1018 Apr 28 j 00:46	0°♄		min. Earth dist.	1023 Jun 16 j 18:52	21°♄05'57	0.41434 AU
morning rise	1018 May 08 j 18:50	7°♄47'49		direct	1023 Jul 13 j 19:59	16°♄33'11	
asc. node	1018 Jun 04 j 00:23	26°♄22'44			1023 Aug 30 j 14:34	0°♄	
	1018 Jun 09 j 05:37	0°♄			1023 Oct 19 j 15:57	0°♄	
	1018 Jul 23 j 21:37	0°♄			1023 Dec 01 j 22:47	0°♄	
	1018 Sep 09 j 14:01	0°♄			1024 Jan 13 j 09:41	0°♄	
	1018 Nov 01 j 10:20	0°♄		asc. node	1024 Jan 24 j 21:44	8°♄03'40	
retrograde	1019 Jan 24 j 17:58	27°♄56'23			1024 Feb 25 j 15:34	0°♄	
opposition	1019 Mar 04 j 11:38	19°♄02'55	3°46'37		1024 Apr 10 j 06:50	0°♄	
greatest brilliancy	1019 Mar 05 j 06:40	18°♄44'24	-1.4m		1024 May 26 j 06:48	0°♄	
min. Earth dist.	1019 Mar 08 j 23:10	17°♄18'19	0.64187 AU	evening set	1024 Jun 11 j 07:35	10°♄18'00	
direct	1019 Apr 14 j 19:37	9°♄01'56			1024 Jul 12 j 04:13	0°♄	
	1019 Jun 21 j 22:49	0°♄					
desc. node	1019 Jun 22 j 16:34	0°♄22'45		conjunction	1024 Jul 28 j 08:59	10°♄18'36	1°09'14
	1019 Aug 11 j 21:36	0°♄		minimum elong	1024 Jul 28 j 08:52	10°♄18'26	1°09'13
	1019 Sep 24 j 07:12	0°♄		max. Earth dist.	1024 Jul 28 j 00:24	10°♄04'57	2.67490 AU
	1019 Nov 03 j 08:22	0°♄			1024 Aug 28 j 06:29	0°♄	
	1019 Dec 11 j 20:21	0°♄		morning rise	1024 Sep 11 j 01:55	8°♄50'06	
	1020 Jan 19 j 01:49	0°♄			1024 Oct 13 j 22:59	0°♄	
	1020 Feb 27 j 01:09	0°♄			1024 Nov 28 j 22:53	0°♄	
evening set	1020 Mar 04 j 17:30	5°♄02'29			1025 Jan 13 j 07:21	0°♄	
	1020 Apr 07 j 13:01	0°♄		desc. node	1025 Feb 11 j 13:42	19°♄29'06	
asc. node	1020 Apr 20 j 23:19	9°♄38'39			1025 Feb 27 j 08:56	0°♄	

	1025 Apr 14 j 04:11	0°♊			1030 Oct 01 j 13:36	0°♍		
	1025 Jun 04 j 05:10	0°♋		desc. node	1030 Oct 04 j 11:13	2°♍02'03		
retrograde	1025 Jul 27 j 03:50	15°♋45'19		evening set	1030 Oct 06 j 04:45	3°♍15'06		
min. Earth dist.	1025 Aug 23 j 03:03	11°♋18'06	0.38606 AU	max. Earth dist.	1030 Oct 20 j 22:53	13°♍44'40	2.46555 AU	
greatest brilliancy	1025 Aug 26 j 23:25	10°♋12'07	-2.8m		1030 Nov 12 j 06:27	0°♊		
opposition	1025 Aug 28 j 03:00	9°♋52'18	-5°-53'-52					
direct	1025 Sep 26 j 22:47	4°♋42'27		conjunction	1030 Nov 28 j 09:54	12°♊01'49	0°-33'-13	
	1025 Dec 09 j 16:52	0°♋		minimum elong	1030 Nov 28 j 08:10	11°♊58'32	0°33'13	
asc. node	1025 Dec 11 j 20:43	1°♋10'28			1030 Dec 22 j 01:10	0°♊		
	1026 Jan 30 j 01:41	0°♌		morning rise	1031 Jan 28 j 03:00	28°♊48'52		
	1026 Mar 19 j 13:54	0°♌			1031 Jan 29 j 15:17	0°♊		
	1026 May 06 j 17:08	0°♌			1031 Mar 08 j 20:53	0°♋		
	1026 Jun 23 j 17:06	0°♌		greatest brilliancy	1031 Mar 11 j 08:45	1°♋57'01	1.2m	
evening set	1026 Jul 19 j 09:04	16°♌10'17			1031 Apr 16 j 15:09	0°♋		
	1026 Aug 10 j 02:48	0°♌			1031 May 26 j 20:01	0°♌		
max. Earth dist.	1026 Aug 20 j 05:30	6°♌29'15	2.65478 AU	asc. node	1031 Jul 08 j 12:01	0°♌		
					1031 Aug 03 j 17:09	17°♌15'23		
conjunction	1026 Sep 03 j 00:00	15°♌22'59	0°57'51		1031 Aug 24 j 05:59	0°♌		
minimum elong	1026 Sep 03 j 01:03	15°♌24'41	0°57'50		1031 Oct 20 j 12:09	0°♌		
	1026 Sep 25 j 08:26	0°♌		retrograde	1031 Dec 07 j 06:44	11°♌29'26		
morning rise	1026 Oct 17 j 23:47	15°♌03'19		opposition	1032 Jan 16 j 09:59	1°♌41'22	4°30'09	
	1026 Nov 09 j 01:37	0°♌		greatest brilliancy	1032 Jan 16 j 04:07	1°♌47'15	-1.2m	
	1026 Dec 22 j 04:59	0°♌		min. Earth dist.	1032 Jan 15 j 12:36	2°♌02'49	0.67289 AU	
desc. node	1026 Dec 30 j 12:07	5°♌53'19			1032 Jan 20 j 15:49	30°♌		
	1027 Feb 01 j 23:01	0°♌		direct	1032 Feb 25 j 18:05	22°♌00'17		
	1027 Mar 14 j 17:04	0°♌			1032 Apr 05 j 22:46	0°♌		
	1027 Apr 24 j 05:02	0°♌			1032 Jun 08 j 06:34	0°♌		
	1027 Jun 04 j 22:00	0°♌			1032 Jul 28 j 05:45	0°♌		
	1027 Jul 21 j 19:08	0°♌		desc. node	1032 Aug 21 j 09:27	15°♌47'22		
retrograde	1027 Sep 22 j 21:56	21°♌26'59			1032 Sep 11 j 05:21	0°♌		
min. Earth dist.	1027 Oct 22 j 16:33	15°♌19'17	0.50340 AU		1032 Oct 22 j 22:59	0°♌		
asc. node	1027 Oct 29 j 20:17	12°♌40'05		evening set	1032 Nov 28 j 19:06	27°♌54'58		
opposition	1027 Oct 30 j 12:27	12°♌25'02	0°02'05		1032 Dec 01 j 11:47	0°♌		
greatest brilliancy	1026 Apr 19 j 17:41	19°♌24'55	4.5m		1033 Jan 08 j 18:47	0°♌		
direct	1027 Dec 03 j 18:17	5°♌01'19						
	1028 Feb 18 j 18:37	0°♌		conjunction	1033 Feb 01 j 15:33	18°♌51'23	-1°-4'-28	
	1028 Apr 13 j 14:40	0°♌		minimum elong	1033 Feb 01 j 16:23	18°♌53'02	1°04'29	
	1028 Jun 03 j 05:44	0°♌			1033 Feb 15 j 19:00	0°♌		
	1028 Jul 21 j 16:34	0°♌		max. Earth dist.	1033 Mar 05 j 05:01	13°♌37'31	2.37605 AU	
evening set	1028 Aug 24 j 23:31	22°♌02'53			1033 Mar 26 j 10:14	0°♌		
	1028 Sep 06 j 01:28	0°♌		morning rise	1033 Apr 12 j 21:55	13°♌15'30		
max. Earth dist.	1028 Sep 14 j 13:44	5°♌39'45	2.58218 AU		1033 May 05 j 11:51	0°♌		
					1033 Jun 16 j 16:02	0°♌		
conjunction	1028 Oct 11 j 04:16	23°♌42'45	0°21'31	asc. node	1033 Jun 20 j 17:12	2°♌47'21		
minimum elong	1028 Oct 11 j 05:05	23°♌44'09	0°21'30		1033 Jul 31 j 12:55	0°♌		
	1028 Oct 20 j 06:17	0°♌			1033 Sep 18 j 04:13	0°♌		
desc. node	1028 Nov 16 j 11:58	19°♌14'08			1033 Nov 14 j 11:18	0°♌		
morning rise	1028 Nov 29 j 10:40	28°♌34'47		retrograde	1034 Jan 10 j 05:09	14°♌47'45		
	1028 Dec 01 j 09:32	0°♌		opposition	1034 Feb 18 j 13:40	5°♌34'28	4°15'03	
	1029 Jan 10 j 19:51	0°♌		greatest brilliancy	1034 Feb 19 j 02:56	5°♌21'23	-1.3m	
	1029 Feb 19 j 02:23	0°♌		min. Earth dist.	1034 Feb 21 j 13:19	4°♌23'52	0.66344 AU	
	1029 Mar 29 j 22:53	0°♌			1034 Mar 05 j 13:23	30°♌		
	1029 May 08 j 07:48	0°♌		direct	1034 Mar 31 j 22:08	25°♌32'52		
	1029 Jun 18 j 11:37	0°♌			1034 Apr 29 j 13:50	0°♌		
	1029 Aug 02 j 17:14	0°♌			1034 Jul 04 j 03:48	0°♌		
asc. node	1029 Sep 15 j 18:43	23°♌49'08		desc. node	1034 Jul 09 j 08:03	3°♌00'29		
	1029 Oct 01 j 09:47	0°♌			1034 Aug 21 j 00:30	0°♌		
retrograde	1029 Nov 02 j 01:12	5°♌53'55			1034 Oct 02 j 14:29	0°♌		
	1029 Dec 01 j 11:47	30°♌			1034 Nov 11 j 08:39	0°♌		
min. Earth dist.	1029 Dec 07 j 02:51	27°♌50'11	0.61671 AU		1034 Dec 19 j 17:00	0°♌		
opposition	1029 Dec 11 j 19:49	25°♌57'27	3°19'54		1035 Jan 26 j 19:10	0°♌		
greatest brilliancy	1029 Dec 11 j 00:04	26°♌17'11	-1.5m	evening set	1035 Feb 07 j 02:25	8°♌49'27		
direct	1030 Jan 18 j 18:56	17°♌04'43			1035 Mar 06 j 14:35	0°♌		
	1030 Mar 12 j 13:09	0°♌						
	1030 May 11 j 20:59	0°♌		conjunction	1035 Apr 13 j 01:57	27°♌56'23	0°-16'-8	
	1030 Jul 02 j 02:11	0°♌		minimum elong	1035 Apr 13 j 03:08	27°♌58'32	0°16'09	
	1030 Aug 18 j 08:14	0°♌			1035 Apr 15 j 21:49	0°♌		

asc. node	1035 May 08 j 16:21	16°♄20'17		greatest brilliancy	1040 Jul 27 j 04:21	9°≈10'19	-2.9m
max. Earth dist.	1035 May 25 j 00:21	27°♄47'00	2.50503 AU	min. Earth dist.	1040 Jul 27 j 02:47	9°≈11'21	0.37382 AU
	1035 May 28 j 05:10	0°♁		direct	1040 Aug 25 j 20:55	4°≈13'58	
morning rise	1035 Jun 11 j 04:12	9°♁34'18			1040 Nov 06 j 11:01	0°♁	
	1035 Jul 11 j 17:43	0°♁			1040 Dec 25 j 09:40	0°♁	
	1035 Aug 27 j 13:34	0°♁		asc. node	1040 Dec 28 j 12:52	2°♁00'31	
	1035 Oct 16 j 05:13	0°♁			1041 Feb 09 j 17:35	0°♁	
	1035 Dec 11 j 00:42	0°♁			1041 Mar 28 j 03:40	0°♁	
retrograde	1036 Feb 18 j 23:03	20°♁35'06			1041 May 14 j 05:14	0°♁	
opposition	1036 Mar 27 j 07:13	12°♁21'31	2°28'55		1041 Jun 30 j 16:16	0°♁	
greatest brilliancy	1036 Mar 28 j 04:23	12°♁01'32	-1.6m	evening set	1041 Jul 04 j 21:42	2°♁40'24	
min. Earth dist.	1036 Apr 02 j 22:29	9°♁51'24	0.58894 AU	max. Earth dist.	1041 Aug 11 j 01:45	26°♁16'37	2.66921 AU
direct	1036 May 06 j 22:57	2°♁37'07			1041 Aug 16 j 21:33	0°♁	
desc. node	1036 May 26 j 07:11	4°♁53'11					
	1036 Jul 23 j 12:47	0°♁		conjunction	1041 Aug 19 j 17:30	1°♁48'44	1°05'18
	1036 Sep 08 j 04:06	0°♁		minimum elong	1041 Aug 19 j 18:12	1°♁49'52	1°05'18
	1036 Oct 19 j 07:56	0°♁			1041 Oct 02 j 06:01	0°♁	
	1036 Nov 27 j 09:27	0°≈		morning rise	1041 Oct 03 j 04:53	0°♁37'29	
	1037 Jan 05 j 01:05	0°♁			1041 Nov 16 j 08:45	0°♁	
	1037 Feb 13 j 10:17	0°♁			1041 Dec 30 j 03:58	0°♁	
asc. node	1037 Mar 25 j 14:33	29°♁28'58		desc. node	1042 Jan 16 j 04:58	11°♁53'58	
	1037 Mar 26 j 07:51	0°♁			1042 Feb 10 j 19:34	0°♁	
evening set	1037 Apr 09 j 22:30	10°♁23'28			1042 Mar 24 j 16:38	0°≈	
	1037 May 08 j 03:54	0°♁			1042 May 05 j 17:59	0°♁	
					1042 Jun 19 j 14:48	0°♁	
conjunction	1037 Jun 03 j 15:51	17°♁53'57	0°39'40	retrograde	1042 Sep 03 j 08:17	29°♁23'39	
minimum elong	1037 Jun 03 j 14:19	17°♁51'23	0°39'40	min. Earth dist.	1042 Oct 01 j 00:22	24°♁08'27	0.45132 AU
	1037 Jun 21 j 22:36	0°♁		greatest brilliancy	1042 Oct 08 j 07:36	21°♁38'13	-2.4m
max. Earth dist.	1037 Jun 24 j 20:58	1°♁55'27	2.61239 AU	opposition	1042 Oct 09 j 04:35	21°♁20'06	-2°-5'-42
morning rise	1037 Jul 23 j 10:12	20°♁26'48		direct	1042 Nov 10 j 15:05	14°♁47'35	
	1037 Aug 07 j 08:40	0°♁		asc. node	1042 Nov 15 j 11:14	14°♁56'47	
	1037 Sep 24 j 01:26	0°♁			1043 Jan 05 j 05:41	0°♁	
	1037 Nov 12 j 03:13	0°♁			1043 Mar 03 j 07:59	0°♁	
	1038 Jan 03 j 02:58	0°♁			1043 Apr 23 j 09:26	0°♁	
	1038 Mar 09 j 10:25	0°♁			1043 Jun 11 j 16:52	0°♁	
retrograde	1038 Apr 11 j 19:23	5°♁52'56			1043 Jul 29 j 15:22	0°♁	
desc. node	1038 Apr 13 j 05:45	5°♁52'11		evening set	1043 Aug 11 j 03:31	7°♁59'41	
	1038 May 13 j 13:18	30°♁		max. Earth dist.	1043 Sep 04 j 19:19	24°♁00'01	2.61680 AU
opposition	1038 May 15 j 11:32	29°♁22'04	-1°-44'-24		1043 Sep 13 j 21:49	0°♁	
greatest brilliancy	1038 May 16 j 06:56	29°♁06'01	-2.3m				
min. Earth dist.	1038 May 23 j 21:47	26°♁35'42	0.46371 AU	conjunction	1043 Sep 26 j 07:18	8°♁14'59	0°38'24
direct	1038 Jun 21 j 07:28	21°♁24'33		minimum elong	1043 Sep 26 j 08:27	8°♁16'55	0°38'22
	1038 Jul 28 j 20:41	0°♁			1043 Oct 28 j 06:30	0°♁	
	1038 Sep 20 j 04:21	0°♁		morning rise	1043 Nov 12 j 05:50	10°♁25'57	
	1038 Nov 01 j 22:33	0°≈		desc. node	1043 Dec 04 j 03:37	25°♁58'45	
	1038 Dec 12 j 16:46	0°♁			1043 Dec 09 j 17:46	0°♁	
	1039 Jan 22 j 16:22	0°♁			1044 Jan 19 j 14:24	0°♁	
asc. node	1039 Feb 10 j 13:45	13°♁33'31			1044 Feb 28 j 07:44	0°≈	
	1039 Mar 05 j 21:50	0°♁			1044 Apr 07 j 14:44	0°♁	
	1039 Apr 18 j 19:40	0°♁			1044 May 17 j 11:59	0°♁	
evening set	1039 May 27 j 08:48	25°♁27'52			1044 Jun 28 j 15:02	0°♁	
	1039 Jun 03 j 08:03	0°♁			1044 Aug 16 j 03:37	0°♁	
				asc. node	1044 Oct 02 j 10:31	18°♁45'09	
conjunction	1039 Jul 14 j 19:16	26°♁41'13	1°06'32	retrograde	1044 Oct 18 j 04:16	20°♁23'30	
minimum elong	1039 Jul 14 j 18:36	26°♁40'09	1°06'32	min. Earth dist.	1044 Nov 20 j 07:05	13°♁00'55	0.57788 AU
	1039 Jul 19 j 23:46	0°♁		opposition	1044 Nov 26 j 09:51	10°♁36'38	2°22'44
max. Earth dist.	1039 Jul 19 j 23:30	29°♁59'33	2.66811 AU	greatest brilliancy	1044 Nov 25 j 14:33	10°♁55'37	-1.7m
morning rise	1039 Aug 29 j 05:54	25°♁37'44		direct	1045 Jan 02 j 01:37	2°♁12'33	
	1039 Sep 05 j 02:52	0°♁			1045 Mar 27 j 05:14	0°♁	
	1039 Oct 22 j 04:44	0°♁			1045 May 20 j 19:22	0°♁	
	1039 Dec 08 j 01:57	0°♁			1045 Jul 09 j 14:53	0°♁	
	1040 Jan 24 j 02:40	0°♁			1045 Aug 25 j 10:21	0°♁	
desc. node	1040 Feb 29 j 05:33	22°♁34'56		evening set	1045 Sep 18 j 20:25	16°♁22'23	
	1040 Mar 12 j 10:00	0°♁		max. Earth dist.	1045 Oct 04 j 15:19	27°♁14'08	2.51521 AU
	1040 May 05 j 22:31	0°≈			1045 Oct 08 j 14:32	0°♁	
retrograde	1040 Jun 26 j 22:47	14°≈11'57		desc. node	1045 Oct 21 j 02:29	8°♁48'09	
opposition	1040 Jul 27 j 02:04	9°≈11'49	-6°-52'-53				

conjunction	1045 Nov 07 j 23:52	21°♌38'20	0°-11'-3		1050 Oct 25 j 12:31	0°♐	
minimum elong	1045 Nov 07 j 23:19	21°♌37'21	0°11'04		1050 Dec 29 j 18:00	0°♌	
behind sun begin	1045 Nov 07 j 06:53	21°♌07'34		retrograde	1051 Feb 02 j 12:55	6°♌12'56	
behind sun end	1045 Nov 08 j 15:46	22°♌07'10			1051 Mar 06 j 06:37	30°♐♐	
	1045 Nov 19 j 10:39	0°♊		opposition	1051 Mar 12 j 20:06	27°♐32'13	3°23'04
	1045 Dec 29 j 10:42	0°♊		greatest brilliancy	1051 Mar 13 j 17:04	27°♐11'59	-1.4m
morning rise	1046 Jan 02 j 03:42	2°♊50'08		min. Earth dist.	1051 Mar 18 j 02:31	25°♐30'20	0.62547 AU
	1046 Feb 06 j 06:21	0°♋		direct	1051 Apr 23 j 00:31	17°♐34'43	
	1046 Mar 16 j 16:31	0°♋			1051 Jun 11 j 15:10	0°♌	
	1046 Apr 24 j 14:35	0°♐		desc. node	1051 Jun 12 j 22:45	0°♌34'44	
	1046 Jun 04 j 00:23	0°♊			1051 Aug 05 j 10:44	0°♌	
	1046 Jul 17 j 04:58	0°♐			1051 Sep 18 j 16:42	0°♊	
asc. node	1046 Aug 20 j 10:19	21°♐38'16			1051 Oct 29 j 01:44	0°♊	
	1046 Sep 03 j 21:05	0°♋			1051 Dec 06 j 17:49	0°♋	
retrograde	1046 Nov 23 j 21:25	28°♋23'30			1052 Jan 14 j 02:08	0°♋	
min. Earth dist.	1046 Dec 31 j 14:47	19°♋26'24	0.65838 AU		1052 Feb 22 j 04:09	0°♐	
greatest brilliancy	1047 Jan 02 j 11:57	18°♋41'02	-1.3m	evening set	1052 Mar 18 j 14:07	18°♐56'24	
opposition	1047 Jan 03 j 00:49	18°♋28'07	4°14'18		1052 Apr 02 j 18:25	0°♊	
direct	1047 Feb 11 j 14:21	9°♋02'30		asc. node	1052 Apr 11 j 07:14	6°♊08'06	
	1047 Apr 23 j 16:11	0°♑			1052 May 15 j 07:47	0°♐	
	1047 Jun 18 j 11:20	0°♐					
	1047 Aug 06 j 00:48	0°♌		conjunction	1052 May 16 j 01:48	0°♐30'58	0°21'05
desc. node	1047 Sep 08 j 01:17	21°♌59'58		minimum elong	1052 May 16 j 00:41	0°♐29'03	0°21'04
	1047 Sep 19 j 15:02	0°♌		max. Earth dist.	1052 Jun 13 j 22:55	20°♐04'30	2.57607 AU
	1047 Oct 31 j 07:18	0°♊			1052 Jun 28 j 22:19	0°♋	
evening set	1047 Nov 06 j 11:41	4°♊35'50		morning rise	1052 Jul 07 j 18:33	5°♋47'54	
max. Earth dist.	1047 Dec 03 j 00:35	24°♊42'17	2.38921 AU		1052 Aug 14 j 09:33	0°♑	
	1047 Dec 09 j 21:37	0°♊			1052 Oct 01 j 14:28	0°♐	
					1052 Nov 21 j 06:02	0°♌	
conjunction	1048 Jan 05 j 13:14	20°♊46'33	-1°00'-49		1053 Jan 17 j 19:49	0°♌	
minimum elong	1048 Jan 05 j 11:22	20°♊42'54	1°00'49	retrograde	1053 Mar 19 j 19:31	16°♌33'17	
	1048 Jan 17 j 06:35	0°♋		opposition	1053 Apr 24 j 03:52	9°♌15'26	0°17'03
	1048 Feb 24 j 07:57	0°♋		greatest brilliancy	1053 Apr 22 j 23:16	9°♌40'42	-2.0m
morning rise	1048 Mar 14 j 17:11	15°♋08'55		desc. node	1053 Apr 29 j 22:31	7°♌12'07	
	1048 Apr 02 j 23:18	0°♐		min. Earth dist.	1053 May 02 j 09:54	6°♌20'21	0.51613 AU
	1048 May 13 j 00:41	0°♊		direct	1053 Jun 02 j 00:24	0°♌19'46	
	1048 Jun 24 j 06:32	0°♐			1053 Aug 19 j 13:04	0°♊	
asc. node	1048 Jul 07 j 08:55	8°♐55'15			1053 Oct 03 j 01:30	0°♊	
	1048 Aug 08 j 13:20	0°♋			1053 Nov 12 j 13:11	0°♋	
	1048 Sep 27 j 20:18	0°♑			1053 Dec 22 j 02:38	0°♋	
	1048 Dec 08 j 16:17	0°♐			1054 Jan 31 j 05:44	0°♐	
retrograde	1048 Dec 27 j 09:11	2°♐00'22		asc. node	1054 Feb 27 j 05:10	19°♐37'00	
	1049 Jan 13 j 21:07	30°♐♑			1054 Mar 13 j 19:04	0°♊	
opposition	1049 Feb 05 j 04:01	22°♑30'58	4°30'22		1054 Apr 26 j 04:11	0°♐	
greatest brilliancy	1049 Feb 05 j 10:03	22°♑24'59	-1.2m	evening set	1054 May 10 j 06:38	9°♐29'14	
min. Earth dist.	1049 Feb 06 j 15:09	21°♑56'03	0.67496 AU		1054 Jun 10 j 07:46	0°♋	
direct	1049 Mar 18 j 07:00	12°♑34'13					
	1049 May 19 j 23:29	0°♐		conjunction	1054 Jun 29 j 15:19	12°♋32'48	0°59'39
	1049 Jul 14 j 01:43	0°♌		minimum elong	1054 Jun 29 j 14:08	12°♋30'54	0°59'38
desc. node	1049 Jul 25 j 23:48	7°♌22'47		max. Earth dist.	1054 Jul 10 j 14:07	19°♋36'18	2.65280 AU
	1049 Aug 29 j 09:06	0°♌			1054 Jul 26 j 19:31	0°♑	
	1049 Oct 10 j 12:10	0°♊		morning rise	1054 Aug 15 j 07:13	12°♑24'48	
	1049 Nov 19 j 02:54	0°♊			1054 Sep 12 j 01:30	0°♐	
	1049 Dec 27 j 09:42	0°♋			1054 Oct 29 j 16:50	0°♌	
evening set	1050 Jan 09 j 21:08	10°♋39'10			1054 Dec 16 j 21:23	0°♌	
	1050 Feb 03 j 09:56	0°♋			1055 Feb 04 j 19:14	0°♊	
	1050 Mar 14 j 02:28	0°♐		desc. node	1055 Mar 17 j 21:32	22°♊29'36	
					1055 Apr 02 j 15:33	0°♊	
conjunction	1050 Mar 18 j 11:59	3°♐20'55	0°-40'-57	retrograde	1055 May 26 j 06:45	14°♊07'48	
minimum elong	1050 Mar 18 j 14:55	3°♐26'28	0°40'57	opposition	1055 Jun 26 j 01:24	8°♊54'21	-5°-32'-50
	1050 Apr 23 j 06:06	0°♊		greatest brilliancy	1055 Jun 27 j 07:55	8°♊32'48	-2.7m
max. Earth dist.	1050 May 06 j 23:56	9°♊56'56	2.45218 AU	min. Earth dist.	1055 Jul 01 j 03:41	7°♊28'20	0.39294 AU
morning rise	1050 May 21 j 17:02	20°♊24'42		direct	1055 Jul 28 j 07:37	3°♊02'26	
asc. node	1050 May 25 j 07:55	22°♊57'27			1055 Oct 08 j 21:05	0°♋	
	1050 Jun 04 j 10:27	0°♐			1055 Nov 24 j 06:22	0°♋	
	1050 Jul 18 j 23:34	0°♋			1056 Jan 07 j 01:05	0°♐	
	1050 Sep 04 j 05:39	0°♑		asc. node	1056 Jan 15 j 04:14	5°♐34'47	

	1056 Feb 20 j 01:30	0°♄		behind sun end	1060 Oct 21 j 11:52	4°♍06'00	
	1056 Apr 05 j 04:21	0°♁		desc. node	1060 Nov 06 j 18:28	15°♍37'16	
	1056 May 21 j 11:42	0°♄			1060 Nov 26 j 16:10	0°♄	
evening set	1056 Jun 20 j 02:17	18°♄54'16		morning rise	1060 Dec 10 j 18:46	10°♄22'39	
	1056 Jul 07 j 13:10	0°♁			1061 Jan 05 j 22:57	0°♄	
max. Earth dist.	1056 Aug 02 j 05:38	16°♁19'47	2.67526 AU		1061 Feb 14 j 01:28	0°♁	
					1061 Mar 24 j 17:32	0°♁	
conjunction	1056 Aug 05 j 13:53	18°♁27'30	1°08'56		1061 May 02 j 21:08	0°♁	
minimum elong	1056 Aug 05 j 14:07	18°♁27'51	1°08'55		1061 Jun 12 j 15:40	0°♄	
	1056 Aug 23 j 16:01	0°♁			1061 Jul 26 j 19:39	0°♁	
morning rise	1056 Sep 19 j 01:22	16°♁56'33		asc. node	1061 Sep 06 j 01:38	24°♁10'47	
	1056 Oct 09 j 05:17	0°♁			1061 Sep 17 j 19:12	0°♄	
	1056 Nov 23 j 20:37	0°♁		retrograde	1061 Nov 10 j 03:55	14°♄39'04	
	1057 Jan 07 j 13:32	0°♄		min. Earth dist.	1061 Dec 16 j 05:38	6°♄15'14	0.63419 AU
desc. node	1057 Feb 01 j 20:25	17°♄11'59		greatest brilliancy	1061 Dec 19 j 09:27	4°♄59'17	-1.4m
	1057 Feb 20 j 13:26	0°♄		opposition	1061 Dec 20 j 03:38	4°♄41'04	3°44'40
	1057 Apr 05 j 10:14	0°♁			1062 Jan 01 j 17:07	30°♁	
	1057 May 21 j 02:38	0°♁		direct	1062 Jan 27 j 18:06	25°♁35'16	
	1057 Jul 21 j 10:52	0°♁			1062 Feb 25 j 12:24	0°♄	
retrograde	1057 Aug 11 j 03:12	2°♁54'51			1062 May 05 j 07:46	0°♁	
	1057 Aug 31 j 20:33	30°♁			1062 Jun 26 j 19:23	0°♁	
min. Earth dist.	1057 Sep 06 j 17:04	28°♁20'26	0.40480 AU		1062 Aug 13 j 11:37	0°♁	
greatest brilliancy	1057 Sep 12 j 05:09	26°♁39'29	-2.7m	desc. node	1062 Sep 24 j 17:05	28°♁30'41	
opposition	1057 Sep 13 j 13:35	26°♁14'34	-4°-36'-36		1062 Sep 26 j 20:18	0°♁	
direct	1057 Oct 14 j 01:41	20°♁38'38		evening set	1062 Oct 16 j 21:58	14°♁13'35	
	1057 Nov 24 j 07:37	0°♁		max. Earth dist.	1062 Nov 01 j 20:40	25°♁48'25	2.43710 AU
asc. node	1057 Dec 02 j 04:31	3°♁18'46			1062 Nov 07 j 13:17	0°♄	
	1058 Jan 22 j 05:12	0°♄					
	1058 Mar 13 j 14:15	0°♁		conjunction	1062 Dec 11 j 07:08	25°♄24'27	0°-45'-6
	1058 May 01 j 12:51	0°♄		minimum elong	1062 Dec 11 j 04:53	25°♄20'09	0°45'07
	1058 Jun 18 j 22:18	0°♁			1062 Dec 17 j 06:44	0°♄	
evening set	1058 Jul 27 j 15:33	24°♁21'42			1063 Jan 24 j 19:12	0°♁	
	1058 Aug 05 j 12:04	0°♁		morning rise	1063 Feb 13 j 09:13	15°♁24'16	
max. Earth dist.	1058 Aug 25 j 18:44	13°♁01'48	2.64354 AU		1063 Mar 03 j 23:05	0°♁	
					1063 Apr 11 j 15:42	0°♁	
conjunction	1058 Sep 11 j 07:51	23°♁48'00	0°51'45		1063 May 21 j 18:12	0°♄	
minimum elong	1058 Sep 11 j 09:01	23°♁49'54	0°51'44		1063 Jul 03 j 04:12	0°♁	
	1058 Sep 20 j 18:08	0°♁		asc. node	1063 Jul 25 j 01:37	14°♁38'49	
morning rise	1058 Oct 26 j 19:37	24°♁10'15			1063 Aug 18 j 04:13	0°♄	
	1058 Nov 04 j 08:20	0°♁			1063 Oct 10 j 14:55	0°♁	
	1058 Dec 17 j 05:41	0°♄		retrograde	1063 Dec 14 j 22:02	19°♁17'43	
desc. node	1058 Dec 20 j 19:30	2°♄33'10		opposition	1064 Jan 23 j 23:31	9°♁35'14	4°33'41
	1059 Jan 27 j 15:14	0°♄		greatest brilliancy	1064 Jan 23 j 21:48	9°♁36'56	-1.2m
	1059 Mar 08 j 23:01	0°♁		min. Earth dist.	1064 Jan 23 j 21:58	9°♁36'46	0.67647 AU
	1059 Apr 17 j 21:46	0°♁			1064 Feb 27 j 21:15	30°♁	
	1059 May 28 j 17:04	0°♁		direct	1064 Mar 04 j 15:54	29°♄47'28	
	1059 Jul 11 j 22:22	0°♄			1064 Mar 10 j 14:17	0°♁	
	1059 Sep 11 j 21:37	0°♁			1064 Jun 01 j 12:13	0°♁	
retrograde	1059 Oct 02 j 22:39	2°♁56'22			1064 Jul 22 j 20:26	0°♁	
asc. node	1059 Oct 20 j 03:11	0°♁45'52		desc. node	1064 Aug 11 j 16:24	12°♁45'06	
	1059 Oct 23 j 00:20	30°♁			1064 Sep 06 j 06:07	0°♁	
min. Earth dist.	1059 Nov 02 j 23:04	26°♄20'18	0.53155 AU		1064 Oct 18 j 02:58	0°♄	
opposition	1059 Nov 10 j 06:39	23°♄32'48	1°01'37		1064 Nov 26 j 16:21	0°♄	
greatest brilliancy	1059 Nov 09 j 19:39	23°♄43'18	-1.9m	evening set	1064 Dec 13 j 08:12	12°♄58'48	
direct	1059 Dec 15 j 10:04	15°♄45'01			1065 Jan 03 j 23:05	0°♁	
	1060 Feb 08 j 05:53	0°♁			1065 Feb 10 j 22:50	0°♁	
	1060 Apr 07 j 06:43	0°♄					
	1060 May 29 j 00:13	0°♁		conjunction	1065 Feb 18 j 04:19	5°♁40'23	0°-59'-36
	1060 Jul 16 j 21:17	0°♁		minimum elong	1065 Feb 18 j 06:46	5°♁45'09	0°59'36
	1060 Sep 01 j 10:02	0°♁			1065 Mar 21 j 13:52	0°♁	
evening set	1060 Sep 02 j 18:31	0°♁53'47		max. Earth dist.	1065 Apr 08 j 09:52	13°♁31'05	2.39942 AU
max. Earth dist.	1060 Sep 21 j 09:52	13°♁22'29	2.56024 AU	morning rise	1065 Apr 28 j 00:47	28°♁05'16	
	1060 Oct 15 j 15:02	0°♁			1065 Apr 30 j 15:25	0°♄	
				asc. node	1065 Jun 10 j 23:55	29°♄28'00	
conjunction	1060 Oct 20 j 19:09	3°♁36'42	0°10'18		1065 Jun 11 j 18:23	0°♁	
minimum elong	1060 Oct 20 j 19:35	3°♁37'28	0°10'18		1065 Jul 26 j 10:38	0°♄	
behind sun begin	1060 Oct 20 j 03:17	3°♁08'57			1065 Sep 12 j 09:27	0°♁	

	1065 Nov 05 j 13:23	0°♄			1071 Feb 28 j 15:33	0°♄		
retrograde	1066 Jan 18 j 10:11	22°♄43'23			1071 Apr 13 j 21:17	0°♄		
opposition	1066 Feb 26 j 11:01	13°♄40'24	3°59'58		1071 May 29 j 14:57	0°♄		
greatest brilliancy	1066 Feb 27 j 03:36	13°♄24'09	-1.3m	evening set	1071 Jun 05 j 14:32	4°♄30'47		
min. Earth dist.	1066 Mar 02 j 06:08	12°♄11'11	0.65284 AU		1071 Jul 15 j 09:05	0°♄		
direct	1066 Apr 08 j 20:03	3°♄38'28						
	1066 Jun 26 j 19:06	0°♄		conjunction	1071 Jul 23 j 05:15	4°♄59'47	1°08'35	
desc. node	1066 Jun 29 j 15:33	1°♄33'23		minimum elong	1071 Jul 23 j 04:55	4°♄59'15	1°08'35	
	1066 Aug 15 j 07:19	0°♄		max. Earth dist.	1071 Jul 25 j 07:40	6°♄20'05	2.67290 AU	
	1066 Sep 27 j 09:06	0°♄			1071 Aug 31 j 11:26	0°♄		
	1066 Nov 06 j 07:48	0°♄		morning rise	1071 Sep 06 j 04:40	3°♄38'48		
	1066 Dec 14 j 18:18	0°♄			1071 Oct 17 j 08:06	0°♄		
	1067 Jan 21 j 21:44	0°♄			1071 Dec 02 j 16:55	0°♄		
evening set	1067 Feb 22 j 10:32	24°♄25'04			1072 Jan 17 j 17:25	0°♄		
	1067 Mar 01 j 18:19	0°♄		desc. node	1072 Feb 19 j 12:23	21°♄20'01		
	1067 Apr 11 j 02:51	0°♄			1072 Mar 03 j 22:55	0°♄		
conjunction	1067 Apr 26 j 05:15	10°♄52'24	0°-1'-43		1072 Apr 21 j 03:54	0°♄		
minimum elong	1067 Apr 26 j 05:19	10°♄52'30	0°01'44	retrograde	1072 Jun 24 j 23:45	0°♄		
behind sun begin	1067 Apr 25 j 04:33	10°♄08'21			1072 Jul 14 j 11:19	2°♄27'29		
behind sun end	1067 Apr 27 j 06:04	11°♄36'37			1072 Aug 03 j 04:02	30°♄		
asc. node	1067 Apr 28 j 22:15	12°♄48'09		min. Earth dist.	1072 Aug 11 j 10:47	27°♄53'45	0.37664 AU	
	1067 May 23 j 11:02	0°♄		opposition	1072 Aug 14 j 09:08	27°♄05'49	-6°-35'-56	
max. Earth dist.	1067 Jun 02 j 12:41	6°♄54'59	2.53223 AU	greatest brilliancy	1072 Aug 13 j 16:41	27°♄17'03	-2.9m	
morning rise	1067 Jun 21 j 18:14	19°♄54'53		direct	1072 Sep 12 j 23:15	22°♄08'51		
	1067 Jul 06 j 23:04	0°♄			1072 Oct 19 j 14:15	0°♄		
	1067 Aug 22 j 14:02	0°♄		asc. node	1072 Dec 16 j 14:47	0°♄		
	1067 Oct 10 j 13:26	0°♄			1072 Dec 18 j 19:46	1°♄19'04		
	1067 Dec 02 j 19:12	0°♄			1073 Feb 03 j 04:51	0°♄		
retrograde	1068 Feb 29 j 02:42	29°♄48'35			1073 Mar 22 j 15:17	0°♄		
opposition	1068 Apr 05 j 19:42	21°♄52'36	1°47'49		1073 May 09 j 05:51	0°♄		
greatest brilliancy	1068 Apr 06 j 13:39	21°♄35'57	-1.7m	evening set	1073 Jun 25 j 23:35	0°♄		
min. Earth dist.	1068 Apr 13 j 03:02	19°♄10'21	0.56507 AU		1073 Jul 13 j 05:43	10°♄53'13		
direct	1068 May 15 j 23:50	12°♄21'00		max. Earth dist.	1073 Aug 12 j 07:23	0°♄		
desc. node	1068 May 16 j 13:59	12°♄21'08			1073 Aug 16 j 09:34	2°♄37'10	2.66218 AU	
	1068 Jul 13 j 21:13	0°♄		conjunction	1073 Aug 27 j 21:29	10°♄00'28	1°01'24	
	1068 Sep 01 j 12:06	0°♄		minimum elong	1073 Aug 27 j 22:25	10°♄01'58	1°01'24	
	1068 Oct 13 j 11:31	0°♄			1073 Sep 27 j 14:47	0°♄		
	1068 Nov 21 j 22:17	0°♄		morning rise	1073 Oct 11 j 14:00	9°♄13'33		
	1068 Dec 30 j 19:44	0°♄			1073 Nov 11 j 12:40	0°♄		
	1069 Feb 08 j 09:28	0°♄		desc. node	1073 Dec 24 j 23:28	0°♄		
asc. node	1069 Mar 15 j 22:14	26°♄02'04			1074 Jan 06 j 10:53	8°♄47'40		
	1069 Mar 21 j 11:00	0°♄			1074 Feb 05 j 02:52	0°♄		
evening set	1069 Apr 21 j 11:57	21°♄48'40			1074 Mar 18 j 08:02	0°♄		
	1069 May 03 j 10:03	0°♄			1074 Apr 28 j 09:21	0°♄		
conjunction	1069 Jun 13 j 11:38	27°♄30'26	0°48'19		1074 Jun 10 j 01:33	0°♄		
minimum elong	1069 Jun 13 j 10:07	27°♄27'56	0°48'19	retrograde	1074 Jul 30 j 12:43	0°♄		
	1069 Jun 17 j 06:39	0°♄		min. Earth dist.	1074 Sep 14 j 19:09	12°♄46'22		
max. Earth dist.	1069 Jun 30 j 21:34	8°♄53'55	2.62892 AU	opposition	1074 Oct 13 j 14:42	7°♄02'02	0.47995 AU	
morning rise	1069 Jul 31 j 23:10	28°♄54'38		greatest brilliancy	1074 Oct 21 j 16:49	4°♄07'08	0°-48'-47	
	1069 Aug 02 j 16:08	0°♄			1074 Oct 21 j 07:55	4°♄15'11	-2.2m	
	1069 Sep 19 j 03:44	0°♄			1074 Nov 03 j 08:01	30°♄		
	1069 Nov 06 j 14:21	0°♄		asc. node	1074 Nov 05 j 19:14	29°♄21'48		
	1069 Dec 26 j 19:14	0°♄		direct	1074 Nov 24 j 03:13	27°♄05'15		
	1070 Feb 20 j 18:34	0°♄			1074 Dec 16 j 06:25	0°♄		
desc. node	1070 Apr 03 j 12:59	15°♄44'45			1075 Feb 23 j 18:10	0°♄		
retrograde	1070 Apr 26 j 16:10	18°♄44'43			1075 Apr 17 j 16:49	0°♄		
opposition	1070 May 29 j 04:59	12°♄43'09	-3°-6'-14		1075 Jun 06 j 17:13	0°♄		
greatest brilliancy	1070 May 30 j 10:57	12°♄19'39	-2.5m	evening set	1075 Jul 24 j 22:59	0°♄		
min. Earth dist.	1070 Jun 06 j 02:31	10°♄15'04	0.43535 AU		1075 Aug 19 j 13:37	16°♄24'39		
direct	1070 Jul 03 j 14:27	5°♄27'50		max. Earth dist.	1075 Sep 09 j 07:45	0°♄		
	1070 Sep 09 j 17:05	0°♄			1075 Sep 10 j 20:54	1°♄01'31	2.59856 AU	
	1070 Oct 25 j 08:19	0°♄		conjunction	1075 Oct 05 j 05:35	17°♄22'15	0°29'02	
	1070 Dec 06 j 06:31	0°♄		minimum elong	1075 Oct 05 j 06:35	17°♄23'57	0°29'00	
	1071 Jan 16 j 22:34	0°♄			1075 Oct 23 j 15:10	0°♄		
asc. node	1071 Jan 31 j 21:14	10°♄36'25		morning rise	1075 Nov 22 j 08:16	20°♄55'32		

desc. node	1075 Nov 24 j 10:31	22°♁25'28			1081 Feb 13 j 22:54	30°♁♁	
	1075 Dec 04 j 22:48	0°♁		min. Earth dist.	1081 Feb 15 j 02:57	29°♁32'15	0.66991 AU
	1076 Jan 14 j 14:05	0°♁		direct	1081 Mar 26 j 02:52	20°♁26'48	
	1076 Feb 23 j 01:35	0°♁			1081 May 09 j 01:02	0°♁	
	1076 Apr 02 j 02:14	0°♁			1081 Jul 07 j 19:55	0°♁	
	1076 May 11 j 15:11	0°♁		desc. node	1081 Jul 16 j 06:42	5°♁03'29	
	1076 Jun 22 j 02:00	0°♁			1081 Aug 24 j 00:52	0°♁	
	1076 Aug 07 j 05:38	0°♁			1081 Oct 05 j 11:16	0°♁	
asc. node	1076 Sep 22 j 18:02	23°♁02'17			1081 Nov 14 j 04:37	0°♁	
retrograde	1076 Oct 26 j 19:11	29°♁53'11			1081 Dec 22 j 12:36	0°♁	
min. Earth dist.	1076 Nov 30 j 00:39	22°♁07'29	0.60049 AU	greatest brilliancy	1082 Jan 02 j 16:30	8°♁48'57	1.2m
opposition	1076 Dec 05 j 09:27	19°♁59'41	2°58'31	evening set	1082 Jan 25 j 20:06	27°♁04'12	
greatest brilliancy	1076 Dec 04 j 13:01	20°♁19'58	-1.6m		1082 Jan 29 j 13:38	0°♁	
direct	1077 Jan 11 j 19:34	11°♁19'04			1082 Mar 09 j 06:54	0°♁	
	1077 Mar 18 j 12:58	0°♁					
	1077 May 14 j 23:52	0°♁		conjunction	1082 Apr 02 j 07:53	18°♁06'28	0°-27'-4
	1077 Jul 04 j 14:36	0°♁		minimum elong	1082 Apr 02 j 09:55	18°♁10'15	0°27'04
	1077 Aug 20 j 17:17	0°♁			1082 Apr 18 j 11:24	0°♁	
evening set	1077 Sep 28 j 12:11	26°♁11'47		asc. node	1082 May 15 j 15:31	19°♁30'01	
	1077 Oct 03 j 23:24	0°♁		max. Earth dist.	1082 May 18 j 01:48	21°♁12'40	2.48182 AU
desc. node	1077 Oct 11 j 09:49	5°♁13'01			1082 May 30 j 15:52	0°♁	
max. Earth dist.	1077 Oct 13 j 09:08	6°♁36'33	2.48829 AU	morning rise	1082 Jun 02 j 15:57	2°♁04'40	
	1077 Nov 14 j 18:51	0°♁			1082 Jul 14 j 02:58	0°♁	
					1082 Aug 30 j 01:01	0°♁	
conjunction	1077 Nov 19 j 05:16	3°♁16'22	0°-23'-47		1082 Oct 19 j 05:14	0°♁	
minimum elong	1077 Nov 19 j 04:02	3°♁14'05	0°23'47		1082 Dec 16 j 13:07	0°♁	
	1077 Dec 24 j 16:35	0°♁		retrograde	1083 Feb 11 j 16:52	14°♁45'42	
morning rise	1078 Jan 16 j 07:44	17°♁28'05		opposition	1083 Mar 21 j 12:10	6°♁19'01	2°53'46
	1078 Feb 01 j 09:26	0°♁		greatest brilliancy	1083 Mar 22 j 09:41	5°♁58'29	-1.5m
	1078 Mar 11 j 16:43	0°♁		min. Earth dist.	1083 Mar 27 j 13:03	4°♁00'59	0.60651 AU
	1078 Apr 19 j 11:40	0°♁			1083 Apr 08 j 06:40	30°♁♁	
	1078 May 29 j 17:11	0°♁		direct	1083 May 01 j 10:49	26°♁27'27	
	1078 Jul 11 j 11:46	0°♁			1083 May 26 j 02:34	0°♁	
asc. node	1078 Aug 10 j 16:11	19°♁37'00		desc. node	1083 Jun 03 j 06:04	2°♁29'01	
	1078 Aug 27 j 18:49	0°♁			1083 Jul 29 j 07:43	0°♁	
	1078 Oct 28 j 08:19	0°♁			1083 Sep 12 j 20:04	0°♁	
retrograde	1078 Dec 01 j 14:19	6°♁26'23			1083 Oct 23 j 15:32	0°♁	
	1079 Jan 02 j 01:39	30°♁♁			1083 Dec 01 j 12:44	0°♁	
min. Earth dist.	1079 Jan 09 j 04:29	27°♁12'43	0.66776 AU		1084 Jan 09 j 00:30	0°♁	
opposition	1079 Jan 10 j 18:39	26°♁34'24	4°25'09		1084 Feb 17 j 05:20	0°♁	
greatest brilliancy	1079 Jan 10 j 09:28	26°♁43'37	-1.3m		1084 Mar 28 j 22:24	0°♁	
direct	1079 Feb 19 j 19:39	16°♁59'49		evening set	1084 Mar 31 j 13:52	1°♁54'08	
	1079 Apr 14 j 01:06	0°♁		asc. node	1084 Apr 01 j 13:48	2°♁37'06	
	1079 Jun 12 j 12:38	0°♁			1084 May 10 j 14:02	0°♁	
	1079 Jul 31 j 22:13	0°♁					
desc. node	1079 Aug 29 j 08:05	18°♁42'47		conjunction	1084 May 26 j 21:37	11°♁06'44	0°32'22
	1079 Sep 14 j 19:10	0°♁		minimum elong	1084 May 26 j 20:10	11°♁04'17	0°32'21
	1079 Oct 26 j 13:33	0°♁		max. Earth dist.	1084 Jun 20 j 12:04	27°♁32'23	2.59715 AU
evening set	1079 Nov 19 j 06:14	17°♁47'53			1084 Jun 24 j 05:39	0°♁	
	1079 Dec 05 j 03:50	0°♁		morning rise	1084 Jul 16 j 20:55	14°♁45'59	
max. Earth dist.	1080 Jan 09 j 15:28	27°♁44'42	2.37230 AU		1084 Aug 09 j 14:58	0°♁	
	1080 Jan 12 j 12:06	0°♁			1084 Sep 26 j 11:44	0°♁	
					1084 Nov 15 j 02:56	0°♁	
conjunction	1080 Jan 21 j 01:44	6°♁45'52	-1°-4'-43		1085 Jan 07 j 20:58	0°♁	
minimum elong	1080 Jan 21 j 01:12	6°♁44'48	1°04'44	retrograde	1085 Apr 01 j 07:48	27°♁35'38	
	1080 Feb 19 j 12:34	0°♁		desc. node	1085 Apr 20 j 04:28	25°♁22'59	
	1080 Mar 29 j 02:56	0°♁		opposition	1085 May 05 j 19:21	20°♁42'40	0°-48'-38
morning rise	1080 Mar 31 j 11:29	1°♁48'08		greatest brilliancy	1085 May 06 j 05:03	20°♁34'22	-2.2m
	1080 May 08 j 03:09	0°♁		min. Earth dist.	1085 May 14 j 07:26	17°♁48'44	0.48737 AU
	1080 Jun 19 j 06:09	0°♁		direct	1085 Jun 12 j 16:02	12°♁16'05	
asc. node	1080 Jun 27 j 16:07	5°♁46'50			1085 Aug 08 j 16:00	0°♁	
	1080 Aug 03 j 04:46	0°♁			1085 Sep 25 j 15:41	0°♁	
	1080 Sep 21 j 07:28	0°♁			1085 Nov 06 j 05:07	0°♁	
	1080 Nov 20 j 17:58	0°♁			1085 Dec 16 j 08:28	0°♁	
retrograde	1081 Jan 04 j 06:08	9°♁47'49			1086 Jan 25 j 20:57	0°♁	
opposition	1081 Feb 12 j 19:53	0°♁26'44	4°22'47	asc. node	1086 Feb 17 j 13:04	16°♁23'41	
greatest brilliancy	1081 Feb 13 j 05:58	0°♁16'45	-1.2m		1086 Mar 08 j 17:31	0°♁	



	1086 Apr 21 j 08:04	0°♁			1091 Mar 03 j 11:21	0°♁		
evening set	1086 May 20 j 04:35	19°♁13'22			1091 Apr 12 j 00:29	0°♁		
	1086 Jun 05 j 15:23	0°♁			1091 May 22 j 04:50	0°♁		
conjunction	1086 Jul 08 j 09:49	21°♁10'44	1°04'10		1091 Jul 03 j 22:47	0°♁		
minimum elong	1086 Jul 08 j 08:55	21°♁09'17	1°04'10	asc. node	1091 Oct 10 j 09:30	13°♁34'35		
max. Earth dist.	1086 Jul 16 j 01:36	26°♁05'12	2.66228 AU	retrograde	1091 Oct 12 j 09:28	13°♁36'18		
	1086 Jul 22 j 04:29	0°♁		min. Earth dist.	1091 Nov 13 j 14:11	6°♁34'13	0.55795 AU	
morning rise	1086 Aug 23 j 07:55	20°♁27'54		opposition	1091 Nov 20 j 07:12	3°♁57'43	1°51'53	
	1086 Sep 07 j 08:27	0°♁		greatest brilliancy	1091 Nov 19 j 13:59	4°♁14'27	-1.8m	
	1086 Oct 24 j 15:45	0°♁			1091 Dec 01 j 06:05	30°♁♁		
	1086 Dec 11 j 01:10	0°♁		direct	1091 Dec 26 j 07:25	25°♁48'58		
	1087 Jan 28 j 03:02	0°♁			1092 Jan 22 j 18:59	0°♁		
desc. node	1087 Mar 08 j 03:50	23°♁20'43			1092 Mar 31 j 08:49	0°♁		
	1087 Mar 19 j 21:43	0°♁			1092 May 23 j 14:40	0°♁		
	1087 May 31 j 14:05	0°♁			1092 Jul 12 j 00:53	0°♁		
retrograde	1087 Jun 13 j 13:33	1°♁02'10			1092 Aug 27 j 18:32	0°♁		
	1087 Jun 26 j 11:51	30°♁♁		evening set	1092 Sep 11 j 19:25	10°♁00'58		
opposition	1087 Jul 13 j 18:02	26°♁03'24	-6°-33'-2	max. Earth dist.	1092 Sep 28 j 17:08	21°♁29'50	2.53613 AU	
greatest brilliancy	1087 Jul 14 j 11:34	25°♁51'41	-2.8m		1092 Oct 11 j 00:09	0°♁		
min. Earth dist.	1087 Jul 16 j 05:48	25°♁23'32	0.37871 AU	desc. node	1092 Oct 28 j 01:15	12°♁00'08		
direct	1087 Aug 13 j 08:24	20°♁48'55						
	1087 Sep 21 j 13:44	0°♁		conjunction	1092 Oct 30 j 21:18	14°♁01'23	0°-1'-46	
	1087 Nov 15 j 02:21	0°♁		minimum elong	1092 Oct 30 j 21:15	14°♁01'17	0°01'47	
	1087 Dec 31 j 02:52	0°♁		behind sun begin	1092 Oct 29 j 23:58	13°♁23'21		
asc. node	1088 Jan 05 j 12:16	3°♁35'15		behind sun end	1092 Oct 31 j 18:32	14°♁39'16		
	1088 Feb 14 j 05:30	0°♁			1092 Nov 21 j 23:35	0°♁		
	1088 Mar 30 j 23:25	0°♁		morning rise	1092 Dec 23 j 00:00	23°♁04'31		
	1088 May 16 j 15:42	0°♁			1093 Jan 01 j 03:16	0°♁		
evening set	1088 Jun 28 j 14:54	27°♁16'54			1093 Feb 09 j 02:17	0°♁		
	1088 Jul 02 j 21:52	0°♁			1093 Mar 19 j 14:57	0°♁		
max. Earth dist.	1088 Aug 07 j 10:58	22°♁34'25	2.67299 AU		1093 Apr 27 j 14:31	0°♁		
					1093 Jun 07 j 02:20	0°♁		
conjunction	1088 Aug 13 j 16:17	26°♁32'30	1°07'16		1093 Jul 20 j 13:07	0°♁		
minimum elong	1088 Aug 13 j 16:48	26°♁33'19	1°07'17	asc. node	1093 Aug 27 j 09:36	23°♁22'04		
	1088 Aug 19 j 02:09	0°♁			1093 Sep 08 j 09:43	0°♁		
morning rise	1088 Sep 27 j 02:13	25°♁08'34		retrograde	1093 Nov 18 j 02:07	23°♁04'44		
	1088 Oct 04 j 13:08	0°♁		min. Earth dist.	1093 Dec 25 j 02:11	14°♁22'28	0.64874 AU	
	1088 Nov 18 j 21:43	0°♁		opposition	1093 Dec 28 j 04:54	13°♁07'31	4°03'51	
	1089 Jan 02 j 02:28	0°♁		greatest brilliancy	1093 Dec 27 j 13:17	13°♁23'11	-1.4m	
desc. node	1089 Jan 23 j 03:54	14°♁33'11		direct	1094 Feb 05 j 09:19	3°♁50'19		
	1089 Feb 14 j 07:04	0°♁			1094 Apr 28 j 01:45	0°♁		
	1089 Mar 28 j 21:56	0°♁			1094 Jun 21 j 08:27	0°♁		
	1089 May 11 j 02:33	0°♁			1094 Aug 08 j 13:55	0°♁		
	1089 Jun 28 j 00:42	0°♁		desc. node	1094 Sep 15 j 00:06	25°♁03'35		
retrograde	1089 Aug 24 j 19:48	18°♁53'02			1094 Sep 22 j 03:02	0°♁		
min. Earth dist.	1089 Sep 20 j 18:48	13°♁58'36	0.42919 AU	evening set	1094 Oct 28 j 05:45	25°♁51'10		
greatest brilliancy	1089 Sep 27 j 11:15	11°♁47'27	-2.5m		1094 Nov 02 j 20:53	0°♁		
opposition	1089 Sep 28 j 15:21	11°♁24'18	-3°-9'-35	max. Earth dist.	1094 Nov 16 j 11:44	10°♁09'08	2.40944 AU	
direct	1089 Oct 30 j 05:26	5°♁17'04			1094 Dec 12 j 13:17	0°♁		
asc. node	1089 Nov 22 j 10:31	8°♁32'41						
	1090 Jan 12 j 18:09	0°♁		conjunction	1094 Dec 25 j 02:39	9°♁43'27	0°-55'-7	
	1090 Mar 07 j 04:22	0°♁		minimum elong	1094 Dec 25 j 00:21	9°♁39'00	0°55'08	
	1090 Apr 26 j 04:59	0°♁			1095 Jan 20 j 00:03	0°♁		
	1090 Jun 14 j 02:10	0°♁			1095 Feb 27 j 02:21	0°♁		
	1090 Jul 31 j 21:10	0°♁		morning rise	1095 Mar 02 j 08:25	2°♁33'06		
evening set	1090 Aug 04 j 21:55	2°♁34'16			1095 Apr 06 j 17:28	0°♁		
max. Earth dist.	1090 Aug 31 j 11:01	19°♁41'24	2.62984 AU		1095 May 16 j 18:02	0°♁		
	1090 Sep 16 j 04:16	0°♁			1095 Jun 27 j 23:48	0°♁		
				asc. node	1095 Jul 15 j 08:28	11°♁45'42		
conjunction	1090 Sep 19 j 18:54	2°♁23'15	0°44'26		1095 Aug 12 j 10:41	0°♁		
minimum elong	1090 Sep 19 j 20:06	2°♁25'14	0°44'26		1095 Oct 02 j 15:29	0°♁		
	1090 Oct 30 j 16:16	0°♁		retrograde	1095 Dec 22 j 14:46	27°♁03'56		
morning rise	1090 Nov 04 j 23:37	3°♁39'44		opposition	1096 Jan 31 j 13:18	17°♁28'12	4°33'05	
desc. node	1090 Dec 11 j 02:36	29°♁05'45		greatest brilliancy	1096 Jan 31 j 15:49	17°♁25'41	-1.2m	
	1090 Dec 12 j 08:53	0°♁		min. Earth dist.	1096 Feb 01 j 07:39	17°♁09'54	0.67693 AU	
	1091 Jan 22 j 11:39	0°♁		direct	1096 Mar 12 j 12:39	7°♁35'07		

	1096 May 24 j 20:34	0°♄	
	1096 Jul 17 j 05:03	0°♅	
desc. node	1096 Aug 01 j 22:45	9°♅54'31	
	1096 Sep 01 j 04:12	0°♆	
	1096 Oct 13 j 05:59	0°♇	
	1096 Nov 21 j 20:56	0°♄	
evening set	1096 Dec 28 j 14:17	28°♄45'37	
	1096 Dec 30 j 03:58	0°♅	
	1097 Feb 06 j 03:44	0°♆	
conjunction	1097 Mar 06 j 08:49	21°♆59'52	0°-50'-15
minimum elong	1097 Mar 06 j 11:56	22°♆05'54	0°50'14
	1097 Mar 16 j 18:42	0°♇	
	1097 Apr 25 j 20:08	0°♄	
max. Earth dist.	1097 Apr 26 j 15:33	0°♄35'30	2.42792 AU
morning rise	1097 May 11 j 20:46	11°♄36'42	
asc. node	1097 Jun 01 j 07:02	26°♄04'30	
	1097 Jun 06 j 22:20	0°♅	
	1097 Jul 21 j 10:51	0°♆	
	1097 Sep 06 j 21:20	0°♇	
	1097 Oct 29 j 01:33	0°♄	
retrograde	1098 Jan 14 j 22:18	0°♅	
	1098 Jan 26 j 22:29	0°♅50'22	
	1098 Feb 07 j 09:29	30°♄	
opposition	1098 Mar 06 j 14:16	21°♄59'01	3°40'09
greatest brilliancy	1098 Mar 07 j 09:30	21°♄40'20	-1.4m
min. Earth dist.	1098 Mar 11 j 04:53	20°♄11'37	0.63888 AU
direct	1098 Apr 16 j 21:45	11°♄58'50	
	1098 Jun 18 j 00:33	0°♅	
desc. node	1098 Jun 19 j 21:28	0°♅55'19	
	1098 Aug 09 j 04:04	0°♆	
	1098 Sep 21 j 22:18	0°♇	
	1098 Nov 01 j 03:24	0°♄	
	1098 Dec 09 j 17:12	0°♅	
	1099 Jan 16 j 23:05	0°♆	
	1099 Feb 24 j 21:46	0°♇	
evening set	1099 Mar 08 j 23:31	9°♇05'45	
	1099 Apr 06 j 08:11	0°♄	
asc. node	1099 Apr 19 j 06:33	9°♄18'26	
conjunction	1099 May 08 j 08:33	22°♄47'16	0°11'50
minimum elong	1099 May 08 j 07:50	22°♄46'02	0°11'49
behind sun begin	1099 May 07 j 15:44	22°♄17'54	
behind sun end	1099 May 08 j 23:57	23°♄14'08	
	1099 May 18 j 17:48	0°♅	
max. Earth dist.	1099 Jun 10 j 00:00	15°♅10'50	2.55728 AU
morning rise	1099 Jul 01 j 15:34	29°♅36'44	
	1099 Jul 02 j 05:41	0°♆	
	1099 Aug 17 j 17:05	0°♇	
	1099 Oct 05 j 04:05	0°♄	
	1099 Nov 25 j 16:33	0°♅	
	1100 Jan 26 j 17:31	0°♆	
retrograde	1100 Mar 10 j 22:01	9°♆32'18	
opposition	1100 Apr 15 j 22:33	1°♆56'19	0°58'55
greatest brilliancy	1100 Apr 16 j 10:02	1°♆45'54	-1.9m
	1100 Apr 21 j 06:32	30°♄	
min. Earth dist.	1100 Apr 23 j 20:24	29°♄04'43	0.53869 AU
desc. node	1100 May 06 j 21:13	25°♄03'33	
direct	1100 May 25 j 11:20	22°♄42'17	
	1100 Jun 29 j 18:35	0°♆	
	1100 Aug 24 j 23:18	0°♇	
	1100 Oct 07 j 04:48	0°♄	
	1100 Nov 16 j 04:03	0°♅	
	1100 Dec 25 j 09:23	0°♆	