

conjunction	601 Sep 19 j 22:27	29° \mathbb{M} 05'27	0°44'00	morning rise	606 Mar 07 j 23:19	4° \mathbb{H} 41'20	
minimum elong	601 Sep 19 j 23:41	29° \mathbb{M} 07'31	0°44'00		606 Apr 09 j 21:51	0° \mathbb{Y}	
	601 Sep 21 j 07:04	0° \mathbb{L}			606 May 20 j 11:49	0° \mathbb{B}	
	601 Nov 04 j 03:10	0° \mathbb{M}			606 Jul 02 j 11:31	0° \mathbb{I}	
morning rise	601 Nov 05 j 19:02	1° \mathbb{M} 09'48		asc. node	606 Jul 13 j 02:26	7° \mathbb{I} 06'10	
desc. node	601 Dec 08 j 22:33	24° \mathbb{M} 46'11			606 Aug 17 j 21:05	0° \mathbb{G}	
	601 Dec 16 j 03:31	0° \mathbb{J}			606 Oct 09 j 17:52	0° \mathbb{Q}	
	602 Jan 25 j 16:00	0° \mathbb{Z}		retrograde	606 Dec 22 j 01:20	22° \mathbb{Q} 56'06	
	602 Mar 06 j 05:30	0° \approx		opposition	607 Jan 30 j 20:28	13° \mathbb{Q} 25'52	4°34'23
	602 Apr 14 j 14:48	0° \mathbb{H}		greatest brilliancy	607 Jan 31 j 00:40	13° \mathbb{Q} 21'41	-1.3m
	602 May 24 j 23:32	0° \mathbb{Y}		min. Earth dist.	607 Feb 01 j 05:14	12° \mathbb{Q} 53'16	0.67510 AU
	602 Jul 07 j 09:06	0° \mathbb{B}		direct	607 Mar 12 j 22:26	3° \mathbb{Q} 29'30	
	602 Aug 29 j 19:06	0° \mathbb{I}			607 Jun 01 j 23:49	0° \mathbb{M}	
asc. node	602 Oct 08 j 04:30	10° \mathbb{I} 50'02			607 Jul 23 j 10:45	0° \mathbb{L}	
retrograde	602 Oct 12 j 16:11	10° \mathbb{I} 58'26		desc. node	607 Jul 31 j 18:57	5° \mathbb{L} 20'28	
min. Earth dist.	602 Nov 14 j 15:50	3° \mathbb{I} 38'23	0.57474 AU		607 Sep 06 j 07:58	0° \mathbb{M}	
opposition	602 Nov 20 j 20:06	1° \mathbb{I} 12'50	1°55'07		607 Oct 17 j 15:20	0° \mathbb{J}	
greatest brilliancy	602 Nov 20 j 08:39	1° \mathbb{I} 24'05	-1.8m		607 Nov 25 j 18:50	0° \mathbb{Z}	
	602 Nov 23 j 23:06	30° \mathbb{R} \mathbb{B}			608 Jan 02 j 21:39	0° \approx	
direct	602 Dec 27 j 09:33	22° \mathbb{B} 51'00		evening set	608 Jan 03 j 12:21	0° \approx 29'03	
	603 Feb 02 j 11:49	0° \mathbb{I}			608 Feb 10 j 00:27	0° \mathbb{H}	
	603 Apr 08 j 06:35	0° \mathbb{G}					
	603 May 30 j 22:12	0° \mathbb{Q}		conjunction	608 Mar 11 j 00:14	23° \mathbb{H} 09'03	-0°46'46
	603 Jul 18 j 18:49	0° \mathbb{M}		minimum elong	608 Mar 11 j 03:16	23° \mathbb{H} 14'49	0°46'44
	603 Sep 02 j 20:04	0° \mathbb{L}			608 Mar 20 j 00:57	0° \mathbb{Y}	
evening set	603 Sep 13 j 09:23	7° \mathbb{L} 07'36			608 Apr 29 j 16:46	0° \mathbb{B}	
max. Earth dist.	603 Sep 29 j 06:56	18° \mathbb{L} 02'33	2.51851 AU	max. Earth dist.	608 Apr 29 j 15:07	29° \mathbb{Y} 57'01	2.44829 AU
	603 Oct 16 j 08:11	0° \mathbb{M}		morning rise	608 May 14 j 13:43	10° \mathbb{B} 36'30	
desc. node	603 Oct 26 j 21:23	7° \mathbb{M} 31'29		asc. node	608 May 30 j 01:46	21° \mathbb{B} 27'28	
					608 Jun 11 j 12:00	0° \mathbb{I}	
conjunction	603 Nov 02 j 09:01	12° \mathbb{M} 11'51	-0°04'06		608 Jul 26 j 17:52	0° \mathbb{G}	
minimum elong	603 Nov 02 j 08:47	12° \mathbb{M} 11'26	0°04'05		608 Sep 12 j 22:01	0° \mathbb{Q}	
behind sun begin	603 Nov 01 j 11:21	11° \mathbb{M} 32'42			608 Nov 05 j 05:51	0° \mathbb{M}	
behind sun end	603 Nov 03 j 06:13	12° \mathbb{M} 50'13		retrograde	609 Jan 27 j 01:39	27° \mathbb{M} 05'45	
	603 Nov 26 j 15:27	0° \mathbb{J}		opposition	609 Mar 06 j 09:57	18° \mathbb{M} 23'33	3°42'28
morning rise	603 Dec 27 j 03:33	23° \mathbb{J} 00'19		greatest brilliancy	609 Mar 07 j 02:32	18° \mathbb{M} 07'32	-1.5m
	604 Jan 05 j 06:32	0° \mathbb{Z}		min. Earth dist.	609 Mar 11 j 14:19	16° \mathbb{M} 23'30	0.62766 AU
	604 Feb 12 j 22:03	0° \approx		direct	609 Apr 16 j 14:53	8° \mathbb{M} 25'25	
	604 Mar 22 j 09:39	0° \mathbb{H}		desc. node	609 Jun 17 j 17:44	26° \mathbb{M} 39'21	
	604 Apr 30 j 15:15	0° \mathbb{Y}			609 Jun 24 j 07:28	0° \mathbb{L}	
	604 Jun 10 j 16:21	0° \mathbb{B}			609 Aug 13 j 09:04	0° \mathbb{M}	
	604 Jul 25 j 01:11	0° \mathbb{I}			609 Sep 25 j 04:52	0° \mathbb{J}	
asc. node	604 Aug 25 j 02:47	18° \mathbb{I} 51'53			609 Nov 03 j 22:22	0° \mathbb{Z}	
	604 Sep 14 j 19:57	0° \mathbb{G}			609 Dec 12 j 09:06	0° \approx	
retrograde	604 Nov 17 j 13:42	19° \mathbb{G} 14'42			610 Jan 19 j 19:36	0° \mathbb{H}	
min. Earth dist.	604 Dec 25 j 04:19	10° \mathbb{G} 19'34	0.65669 AU		610 Feb 28 j 05:23	0° \mathbb{Y}	
opposition	604 Dec 27 j 16:35	9° \mathbb{G} 19'00	4°02'42	evening set	610 Mar 12 j 08:53	9° \mathbb{Y} 00'59	
greatest brilliancy	604 Dec 27 j 06:49	9° \mathbb{G} 28'49	-1.4m		610 Apr 10 j 07:17	0° \mathbb{B}	
	605 Feb 01 j 08:47	30° \mathbb{R} \mathbb{I}		asc. node	610 Apr 17 j 00:17	4° \mathbb{B} 45'53	
direct	605 Feb 05 j 04:07	29° \mathbb{I} 54'31					
	605 Feb 09 j 01:11	0° \mathbb{G}		conjunction	610 May 10 j 03:19	20° \mathbb{B} 54'57	0°14'07
	605 May 05 j 12:00	0° \mathbb{Q}		minimum elong	610 May 10 j 02:32	20° \mathbb{B} 53'36	0°14'06
	605 Jun 27 j 09:03	0° \mathbb{M}		behind sun begin	610 May 09 j 15:55	20° \mathbb{B} 35'18	
	605 Aug 13 j 15:33	0° \mathbb{L}		behind sun end	610 May 10 j 13:09	21° \mathbb{B} 11'52	
desc. node	605 Sep 12 j 20:08	20° \mathbb{L} 29'59			610 May 23 j 09:55	0° \mathbb{I}	
	605 Sep 26 j 08:25	0° \mathbb{M}		max. Earth dist.	610 Jun 08 j 13:38	10° \mathbb{I} 53'19	2.57298 AU
evening set	605 Oct 30 j 16:14	24° \mathbb{M} 58'44		morning rise	610 Jul 02 j 04:02	26° \mathbb{I} 29'32	
	605 Nov 06 j 09:30	0° \mathbb{J}			610 Jul 07 j 13:03	0° \mathbb{G}	
max. Earth dist.	605 Nov 24 j 17:03	13° \mathbb{J} 52'55	2.39267 AU		610 Aug 23 j 11:45	0° \mathbb{Q}	
	605 Dec 15 j 14:14	0° \mathbb{Z}			610 Oct 11 j 06:27	0° \mathbb{M}	
					610 Dec 02 j 03:50	0° \mathbb{L}	
conjunction	605 Dec 29 j 06:39	10° \mathbb{Z} 41'21	-0°57'50		611 Feb 04 j 07:30	0° \mathbb{M}	
minimum elong	605 Dec 29 j 04:23	10° \mathbb{Z} 36'55	0°57'49	retrograde	611 Mar 14 j 01:22	7° \mathbb{M} 14'01	
	606 Jan 22 j 19:30	0° \approx		opposition	611 Apr 18 j 11:28	29° \mathbb{L} 53'25	0°50'45
	606 Mar 01 j 23:00	0° \mathbb{H}			611 Apr 18 j 04:04	30° \mathbb{R} \mathbb{L}	

greatest brilliancy	611 Apr 18 j 18:40	29°♄47'00	-2.1m	evening set	616 Jul 21 j 06:24	15°♈15'01	
min. Earth dist.	611 Apr 26 j 15:42	26°♄59'05	0.51976 AU		616 Aug 13 j 08:14	0°♏	
desc. node	611 May 05 j 16:00	24°♄07'31		max. Earth dist.	616 Aug 19 j 19:38	4°♏10'43	2.64479 AU
direct	611 May 27 j 10:32	20°♄54'44					
	611 Jul 05 j 23:38	0°♌		conjunction	616 Sep 04 j 23:43	14°♏41'44	0°56'10
	611 Aug 28 j 22:37	0°♐		minimum elong	616 Sep 05 j 00:50	14°♏43'34	0°56'09
	611 Oct 10 j 16:41	0°♑			616 Sep 28 j 03:51	0°♄	
	611 Nov 19 j 16:03	0°♒		morning rise	616 Oct 20 j 10:28	14°♄59'39	
	611 Dec 29 j 05:28	0°♐			616 Nov 11 j 07:15	0°♌	
	612 Feb 07 j 15:09	0°♑			616 Dec 23 j 19:06	0°♐	
asc. node	612 Mar 03 j 23:37	18°♑16'13		desc. node	616 Dec 25 j 14:25	1°♐17'51	
	612 Mar 20 j 14:42	0°♑			617 Feb 02 j 21:50	0°♑	
evening set	612 May 03 j 10:32	29°♑59'14			617 Mar 15 j 02:44	0°♒	
	612 May 03 j 10:59	0°♒			617 Apr 24 j 05:31	0°♐	
	612 Jun 17 j 23:57	0°♑			617 Jun 04 j 17:33	0°♑	
					617 Jul 21 j 06:47	0°♑	
conjunction	612 Jun 23 j 01:05	3°♑16'10	0°55'56	retrograde	617 Sep 26 j 08:27	23°♑23'11	
minimum elong	612 Jun 22 j 23:47	3°♑14'03	0°55'56	asc. node	617 Oct 24 j 20:15	17°♑42'20	
max. Earth dist.	612 Jul 04 j 13:20	10°♑41'44	2.65101 AU	min. Earth dist.	617 Oct 27 j 04:50	16°♑50'35	0.52772 AU
	612 Aug 03 j 17:46	0°♈		opposition	617 Nov 03 j 13:58	14°♑02'15	0°28'36
morning rise	612 Aug 08 j 22:01	3°♈17'32		greatest brilliancy	617 Nov 03 j 10:27	14°♑05'36	-2.1m
	612 Sep 20 j 03:08	0°♏		direct	617 Dec 08 j 14:45	6°♑17'35	
	612 Nov 06 j 21:51	0°♄			618 Feb 21 j 14:29	0°♒	
	612 Dec 25 j 11:53	0°♌			618 Apr 18 j 00:30	0°♑	
	613 Feb 14 j 16:59	0°♐			618 Jun 07 j 17:03	0°♈	
desc. node	613 Mar 22 j 15:55	18°♐28'37			618 Jul 25 j 21:32	0°♏	
	613 Apr 21 j 18:09	0°♑		evening set	618 Aug 28 j 09:44	21°♏45'36	
retrograde	613 May 18 j 19:30	4°♑08'14			618 Sep 09 j 18:38	0°♄	
	613 Jun 14 j 14:20	30°♑♐		max. Earth dist.	618 Sep 16 j 06:38	4°♄22'33	2.56280 AU
opposition	613 Jun 18 j 16:02	28°♐51'57	-5°04'29				
greatest brilliancy	613 Jun 19 j 13:40	28°♐36'35	-2.8m	conjunction	618 Oct 15 j 08:21	24°♄21'41	0°17'07
min. Earth dist.	613 Jun 24 j 00:29	27°♐20'59	0.39540 AU	minimum elong	618 Oct 15 j 09:03	24°♄22'55	0°17'07
direct	613 Jul 21 j 04:16	22°♐54'37			618 Oct 23 j 08:59	0°♌	
	613 Aug 23 j 18:04	0°♑		desc. node	618 Nov 12 j 12:55	14°♌23'38	
	613 Oct 17 j 23:57	0°♒			618 Dec 03 j 21:51	0°♐	
	613 Dec 01 j 18:43	0°♐		morning rise	618 Dec 05 j 02:01	0°♐52'00	
	614 Jan 14 j 07:40	0°♑			619 Jan 12 j 20:05	0°♑	
asc. node	614 Jan 19 j 22:07	3°♑50'37			619 Feb 20 j 18:39	0°♒	
	614 Feb 27 j 11:40	0°♑			619 Mar 31 j 12:32	0°♐	
	614 Apr 13 j 21:02	0°♒			619 May 10 j 00:48	0°♑	
	614 May 30 j 09:29	0°♑			619 Jun 20 j 13:38	0°♑	
evening set	614 Jun 14 j 13:01	9°♑39'51			619 Aug 05 j 09:23	0°♒	
	614 Jul 16 j 12:19	0°♈		asc. node	619 Sep 11 j 20:02	20°♒27'40	
max. Earth dist.	614 Jul 28 j 04:25	7°♈25'27	2.67500 AU		619 Oct 05 j 08:23	0°♑	
				retrograde	619 Nov 04 j 19:17	5°♑25'19	
conjunction	614 Jul 31 j 04:13	9°♈19'41	1°09'27		619 Dec 03 j 01:11	30°♑♒	
minimum elong	614 Jul 31 j 04:12	9°♈19'40	1°09'26	min. Earth dist.	619 Dec 10 j 17:29	27°♒03'54	0.63158 AU
	614 Sep 01 j 12:40	0°♏		opposition	619 Dec 14 j 17:38	25°♒27'34	3°26'53
morning rise	614 Sep 13 j 17:49	7°♏51'25		greatest brilliancy	619 Dec 14 j 04:40	25°♒40'35	-1.5m
	614 Oct 17 j 20:45	0°♄		direct	620 Jan 22 j 05:17	16°♒23'26	
	614 Dec 02 j 06:51	0°♌			620 Mar 16 j 18:07	0°♑	
	615 Jan 15 j 20:16	0°♐			620 May 15 j 13:41	0°♈	
desc. node	615 Feb 07 j 15:57	15°♐31'59			620 Jul 05 j 07:50	0°♏	
	615 Feb 28 j 20:25	0°♑			620 Aug 20 j 23:39	0°♄	
	615 Apr 14 j 03:35	0°♒		desc. node	620 Sep 29 j 12:05	27°♄07'24	
	615 May 31 j 21:09	0°♐			620 Oct 03 j 13:33	0°♌	
retrograde	615 Aug 04 j 22:10	22°♐41'55		evening set	620 Oct 10 j 07:33	4°♌49'01	
min. Earth dist.	615 Aug 31 j 13:05	18°♐09'08	0.40231 AU	max. Earth dist.	620 Oct 26 j 01:43	16°♌13'47	2.44068 AU
greatest brilliancy	615 Sep 06 j 03:42	16°♐26'57	-2.7m		620 Nov 13 j 16:13	0°♐	
opposition	615 Sep 07 j 04:47	16°♐07'50	-5°08'04				
direct	615 Oct 07 j 14:13	10°♐35'42		conjunction	620 Dec 04 j 09:04	15°♐39'29	-0°39'40
asc. node	615 Dec 07 j 20:27	28°♐58'58		minimum elong	620 Dec 04 j 06:56	15°♐35'24	0°39'38
	615 Dec 09 j 21:39	0°♑			620 Dec 23 j 00:12	0°♑	
	616 Feb 01 j 17:19	0°♑			621 Jan 30 j 08:31	0°♒	
	616 Mar 22 j 06:16	0°♒		morning rise	621 Feb 05 j 21:22	5°♒08'29	
	616 May 09 j 22:30	0°♑			621 Mar 09 j 14:02	0°♐	
	616 Jun 27 j 02:27	0°♈			621 Apr 17 j 14:07	0°♑	

	621 May 28 j 05:54	0°♄	direct	626 May 10 j 11:26	3°♊01'18	
	621 Jul 10 j 12:32	0°♊	desc. node	626 May 22 j 09:08	3°♊55'27	
asc. node	621 Jul 29 j 18:03	12°♊34'13		626 Jul 25 j 11:43	0°♊	
	621 Aug 27 j 00:22	0°♊		626 Sep 09 j 16:59	0°♊	
	621 Oct 24 j 17:48	0°♊		626 Oct 20 j 15:33	0°♊	
retrograde	621 Dec 08 j 15:07	10°♊12'35		626 Nov 28 j 18:07	0°♊	
opposition	622 Jan 17 j 16:09	0°♊29'38 4°31'43		627 Jan 06 j 16:53	0°♊	
greatest brilliancy	622 Jan 17 j 14:23	0°♊31'24 -1.3m		627 Feb 15 j 14:16	0°♊	
min. Earth dist.	622 Jan 17 j 12:13	0°♊33'34 0.67571 AU	asc. node	627 Mar 21 j 14:52	24°♊40'39	
	622 Jan 18 j 21:46	30°♊		627 Mar 29 j 03:01	0°♊	
direct	622 Feb 27 j 06:43	20°♊42'42	evening set	627 Apr 15 j 13:52	12°♊12'15	
	622 Apr 11 j 23:26	0°♊		627 May 11 j 14:32	0°♊	
	622 Jun 12 j 15:30	0°♊				
	622 Jul 31 j 19:32	0°♊	conjunction	627 Jun 07 j 19:19	18°♊08'19 0°43'08	
desc. node	622 Aug 17 j 11:01	10°♊58'37	minimum elong	627 Jun 07 j 17:49	18°♊05'51 0°43'08	
	622 Sep 14 j 02:06	0°♊		627 Jun 25 j 21:57	0°♊	
	622 Oct 25 j 05:37	0°♊	max. Earth dist.	627 Jun 25 j 16:33	29°♊51'12 2.62681 AU	
	622 Dec 03 j 08:47	0°♊	morning rise	627 Jul 26 j 12:20	19°♊43'37	
evening set	622 Dec 07 j 03:46	2°♊57'40		627 Aug 11 j 15:35	0°♊	
	623 Jan 10 j 11:40	0°♊		627 Sep 28 j 09:38	0°♊	
				627 Nov 16 j 06:00	0°♊	
conjunction	623 Feb 11 j 14:03	25°♊18'51 -1°02'26		628 Jan 06 j 13:42	0°♊	
minimum elong	623 Feb 11 j 15:52	25°♊22'24 1°02'24		628 Mar 08 j 05:10	0°♊	
	623 Feb 17 j 13:40	0°♊	desc. node	628 Apr 08 j 08:10	8°♊14'56	
	623 Mar 28 j 12:18	0°♊	retrograde	628 Apr 19 j 06:41	8°♊57'24	
max. Earth dist.	623 Mar 31 j 20:05	2°♊30'42 2.39574 AU	opposition	628 May 22 j 00:06	2°♊51'42 -2°28'49	
morning rise	623 Apr 21 j 13:42	17°♊58'04	greatest brilliancy	628 May 22 j 16:58	2°♊38'23 -2.5m	
	623 May 08 j 01:48	0°♊	min. Earth dist.	628 May 30 j 00:30	0°♊20'27 0.43906 AU	
asc. node	623 Jun 16 j 17:14	27°♊51'44		628 May 31 j 03:27	30°♊	
	623 Jun 19 j 20:24	0°♊	direct	628 Jun 26 j 14:13	25°♊30'22	
	623 Aug 04 j 08:04	0°♊		628 Jul 22 j 21:37	0°♊	
	623 Sep 22 j 13:43	0°♊		628 Sep 18 j 19:42	0°♊	
	623 Nov 19 j 20:01	0°♊		628 Nov 01 j 11:04	0°♊	
retrograde	624 Jan 13 j 01:26	13°♊38'30		628 Dec 12 j 23:04	0°♊	
opposition	624 Feb 21 j 02:51	4°♊34'30 4°13'29		629 Jan 23 j 17:26	0°♊	
greatest brilliancy	624 Feb 21 j 15:38	4°♊21'58 -1.4m	asc. node	629 Feb 05 j 13:44	9°♊04'11	
min. Earth dist.	624 Feb 24 j 19:47	3°♊07'21 0.65395 AU		629 Mar 07 j 17:52	0°♊	
	624 Mar 04 j 04:14	30°♊		629 Apr 21 j 08:42	0°♊	
direct	624 Apr 02 j 11:27	24°♊32'36	evening set	629 May 30 j 00:12	25°♊13'57	
	624 May 04 j 07:07	0°♊		629 Jun 06 j 09:35	0°♊	
desc. node	624 Jul 04 j 09:39	28°♊41'53				
	624 Jul 06 j 15:14	0°♊	conjunction	629 Jul 16 j 19:02	25°♊51'06 1°07'29	
	624 Aug 22 j 15:58	0°♊	minimum elong	629 Jul 16 j 18:28	25°♊50'12 1°07'28	
	624 Oct 03 j 15:43	0°♊	max. Earth dist.	629 Jul 19 j 06:57	27°♊26'32 2.67215 AU	
	624 Nov 12 j 01:25	0°♊		629 Jul 23 j 07:18	0°♊	
	624 Dec 20 j 07:30	0°♊	morning rise	629 Aug 30 j 21:06	24°♊34'21	
	625 Jan 27 j 13:36	0°♊		629 Sep 08 j 09:13	0°♊	
evening set	625 Feb 15 j 01:26	14°♊16'52		629 Oct 25 j 03:17	0°♊	
	625 Mar 07 j 18:26	0°♊		629 Dec 10 j 10:33	0°♊	
	625 Apr 17 j 14:54	0°♊		630 Jan 25 j 13:20	0°♊	
			desc. node	630 Feb 24 j 07:24	19°♊12'01	
conjunction	625 Apr 19 j 00:42	1°♊00'32 -0°09'12		630 Mar 13 j 07:27	0°♊	
minimum elong	625 Apr 19 j 01:20	1°♊01'39 0°09'11		630 May 02 j 18:01	0°♊	
behind sun begin	625 Apr 18 j 04:35	0°♊24'32	retrograde	630 Jul 07 j 21:13	21°♊57'32	
behind sun end	625 Apr 19 j 22:04	1°♊38'43	min. Earth dist.	630 Aug 05 j 01:45	17°♊21'19 0.37626 AU	
asc. node	625 May 03 j 16:59	11°♊25'18	opposition	630 Aug 07 j 15:27	16°♊39'39 -6°47'14	
max. Earth dist.	625 May 26 j 20:34	27°♊29'02 2.52859 AU	greatest brilliancy	630 Aug 07 j 04:07	16°♊47'19 -2.9m	
	625 May 30 j 12:58	0°♊	direct	630 Sep 06 j 05:33	11°♊43'19	
morning rise	625 Jun 14 j 22:50	10°♊25'08		630 Nov 04 j 18:17	0°♊	
	625 Jul 14 j 14:52	0°♊	asc. node	630 Dec 24 j 13:40	28°♊36'45	
	625 Aug 30 j 20:31	0°♊		630 Dec 26 j 19:45	0°♊	
	625 Oct 19 j 17:46	0°♊		631 Feb 12 j 12:25	0°♊	
	625 Dec 14 j 15:28	0°♊		631 Mar 31 j 19:15	0°♊	
retrograde	626 Feb 22 j 11:10	20°♊32'57		631 May 18 j 09:25	0°♊	
opposition	626 Mar 31 j 05:43	12°♊34'51 2°16'38		631 Jul 05 j 01:00	0°♊	
greatest brilliancy	626 Mar 31 j 21:25	12°♊20'15 -1.8m	evening set	631 Jul 07 j 19:22	1°♊44'55	
min. Earth dist.	626 Apr 07 j 11:21	9°♊53'38 0.56812 AU	max. Earth dist.	631 Aug 11 j 09:10	23°♊44'26 2.66294 AU	

	631 Aug 21 j 03:09	0°♎		asc. node	636 Aug 15 j 10:54	17°♊12'32	
					636 Sep 06 j 15:03	0°♋	
conjunction	631 Aug 22 j 13:16	0°♎54'55 1°04'25		retrograde	636 Nov 25 j 06:31	27°♋17'28	
minimum elong	631 Aug 22 j 14:03	0°♎56'11 1°04'24		min. Earth dist.	637 Jan 02 j 17:30	18°♋05'52	0.66624 AU
morning rise	631 Oct 06 j 05:59	0°♌06'23		opposition	637 Jan 04 j 10:08	17°♋25'03	4°17'06
	631 Oct 06 j 02:08	0°♌		greatest brilliancy	637 Jan 04 j 02:51	17°♋32'22	-1.3m
	631 Nov 19 j 15:02	0°♍		direct	637 Feb 13 j 08:47	7°♋51'32	
	632 Jan 01 j 17:41	0°♎			637 Apr 27 j 19:48	0°♏	
desc. node	632 Jan 12 j 06:33	7°♎28'11			637 Jun 21 j 19:19	0°♎	
	632 Feb 12 j 15:28	0°♏			637 Aug 08 j 15:56	0°♌	
	632 Mar 24 j 19:11	0°♐		desc. node	637 Sep 03 j 03:42	17°♌08'41	
	632 May 05 j 04:37	0°♑			637 Sep 21 j 13:39	0°♍	
	632 Jun 18 j 05:48	0°♒			637 Nov 01 j 15:38	0°♎	
	632 Aug 18 j 01:50	0°♓		evening set	637 Nov 12 j 09:30	8°♎06'43	
retrograde	632 Sep 07 j 23:41	2°♓58'16			637 Dec 10 j 19:47	0°♏	
	632 Sep 28 j 03:39	30°♑♒		max. Earth dist.	637 Dec 28 j 12:28	13°♏51'17	2.37380 AU
min. Earth dist.	632 Oct 06 j 15:49	27°♒17'33	0.47646 AU				
opposition	632 Oct 14 j 18:32	24°♒23'17 -1°25'59		conjunction	638 Jan 13 j 18:44	26°♏40'12	-1°03'43
greatest brilliancy	632 Oct 14 j 08:56	24°♒31'55 -2.3m		minimum elong	638 Jan 13 j 17:31	26°♏37'47	1°03'43
asc. node	632 Nov 10 j 12:42	17°♒42'32			638 Jan 17 j 23:56	0°♐	
direct	632 Nov 17 j 02:33	17°♒25'01			638 Feb 25 j 02:20	0°♑	
	633 Jan 06 j 03:21	0°♓		morning rise	638 Mar 24 j 21:47	21°♑32'20	
	633 Mar 06 j 02:56	0°♊			638 Apr 05 j 00:24	0°♒	
	633 Apr 26 j 17:40	0°♋			638 May 15 j 13:13	0°♓	
	633 Jun 15 j 03:42	0°♏			638 Jun 27 j 09:24	0°♊	
	633 Aug 01 j 20:53	0°♎		asc. node	638 Jul 03 j 09:02	4°♊02'23	
evening set	633 Aug 13 j 05:20	7°♎18'51			638 Aug 12 j 07:47	0°♋	
max. Earth dist.	633 Sep 04 j 21:39	22°♎09'32 2.60079 AU			638 Oct 02 j 08:36	0°♏	
	633 Sep 16 j 16:15	0°♌			638 Dec 19 j 01:09	0°♎	
				retrograde	638 Dec 29 j 21:56	0°♎41'57	
conjunction	633 Sep 28 j 20:42	8°♌12'43 0°35'10			639 Jan 09 j 07:27	30°♑♏	
minimum elong	633 Sep 28 j 21:51	8°♌14'40 0°35'10		opposition	639 Feb 07 j 11:46	21°♏20'01	4°30'14
	633 Oct 30 j 10:44	0°♍		greatest brilliancy	639 Feb 07 j 19:11	21°♏12'40	-1.3m
morning rise	633 Nov 15 j 19:35	11°♍34'57		min. Earth dist.	639 Feb 09 j 16:17	20°♏27'59	0.67050 AU
desc. node	633 Nov 29 j 05:09	21°♍12'27		direct	639 Mar 20 j 17:37	11°♏20'25	
	633 Dec 11 j 07:09	0°♎			639 May 24 j 16:44	0°♎	
	634 Jan 20 j 14:30	0°♏			639 Jul 17 j 15:06	0°♌	
	634 Feb 28 j 22:08	0°♐		desc. node	639 Jul 22 j 02:38	2°♌47'38	
	634 Apr 09 j 00:34	0°♑			639 Sep 01 j 03:48	0°♍	
	634 May 18 j 23:20	0°♒			639 Oct 12 j 16:31	0°♎	
	634 Jun 30 j 09:35	0°♓			639 Nov 20 j 22:03	0°♏	
	634 Aug 18 j 09:21	0°♊			639 Dec 29 j 01:37	0°♐	
asc. node	634 Sep 28 j 11:25	17°♊16'37		evening set	640 Jan 19 j 10:15	16°♐51'10	
retrograde	634 Oct 21 j 08:37	20°♊33'48			640 Feb 05 j 04:44	0°♑	
min. Earth dist.	634 Nov 24 j 10:45	12°♊50'30 0.59733 AU			640 Mar 15 j 05:43	0°♒	
opposition	634 Nov 29 j 21:25	10°♊40'54 2°34'34					
greatest brilliancy	634 Nov 29 j 08:05	10°♊54'08 -1.7m		conjunction	640 Mar 26 j 00:12	8°♒04'49	-0°33'49
direct	635 Jan 06 j 04:38	2°♊02'16		minimum elong	640 Mar 26 j 02:38	8°♒09'21	0°33'47
	635 Mar 31 j 23:01	0°♋			640 Apr 24 j 21:59	0°♓	
	635 May 25 j 10:05	0°♏		max. Earth dist.	640 May 11 j 06:28	11°♓39'14	2.47791 AU
	635 Jul 13 j 20:48	0°♎		asc. node	640 May 20 j 07:51	18°♓00'26	
	635 Aug 29 j 03:00	0°♌		morning rise	640 May 26 j 17:38	22°♓27'38	
evening set	635 Sep 23 j 02:06	16°♌59'06			640 Jun 06 j 16:49	0°♊	
max. Earth dist.	635 Oct 08 j 03:18	27°♌30'05 2.49149 AU			640 Jul 21 j 19:39	0°♋	
	635 Oct 11 j 16:05	0°♍			640 Sep 07 j 12:45	0°♏	
desc. node	635 Oct 17 j 03:47	3°♍54'18			640 Oct 29 j 04:20	0°♎	
					641 Jan 03 j 08:17	0°♌	
conjunction	635 Nov 13 j 14:24	23°♍50'02 -0°17'10		retrograde	641 Feb 05 j 04:58	5°♌36'02	
minimum elong	635 Nov 13 j 13:30	23°♍48'21 0°17'09			641 Mar 07 j 06:11	30°♑♎	
	635 Nov 21 j 21:58	0°♎		opposition	641 Mar 15 j 01:20	27°♎07'51	3°16'36
	635 Dec 31 j 10:45	0°♏		greatest brilliancy	641 Mar 15 j 18:42	26°♎51'15	-1.6m
morning rise	636 Jan 10 j 05:09	7°♏33'14		min. Earth dist.	641 Mar 21 j 00:01	24°♎51'38	0.60899 AU
	636 Feb 07 j 23:44	0°♐		direct	641 Apr 25 j 00:35	17°♎15'30	
	636 Mar 07 j 08:47	0°♑		desc. node	641 Jun 08 j 00:35	27°♎28'23	
	636 Apr 25 j 11:37	0°♒			641 Jun 13 j 22:05	0°♌	
	636 Jun 05 j 07:36	0°♓			641 Aug 06 j 20:12	0°♍	
	636 Jul 19 j 02:46	0°♊			641 Sep 19 j 12:56	0°♎	

	641 Oct 29 j 14:49	0°♄			646 Nov 27 j 04:08	0°♍		
	641 Dec 07 j 06:10	0°♊			647 Jan 10 j 03:10	0°♈		
	642 Jan 14 j 19:52	0°♋		desc. node	647 Jan 28 j 21:58	13°♈17'00		
	642 Feb 23 j 08:31	0°♌			647 Feb 22 j 05:18	0°♄		
evening set	642 Mar 25 j 10:24	22°♌02'52			647 Apr 06 j 00:08	0°♊		
	642 Apr 05 j 12:53	0°♍			647 May 20 j 03:50	0°♋		
asc. node	642 Apr 07 j 07:54	1°♍16'28			647 Jul 12 j 14:01	0°♌		
	642 May 18 j 17:12	0°♎		retrograde	647 Aug 18 j 16:35	8°♌42'20		
				min. Earth dist.	647 Sep 14 j 14:16	3°♌51'05	0.42605 AU	
conjunction	642 May 21 j 01:32	1°♎35'28	0°25'55	greatest brilliancy	647 Sep 21 j 09:59	1°♌38'27	-2.6m	
minimum elong	642 May 21 j 00:18	1°♎33'22	0°25'54	opposition	647 Sep 22 j 08:20	1°♌20'15	-3°46'32	
max. Earth dist.	642 Jun 15 j 05:26	18°♎25'36	2.59413 AU		647 Sep 26 j 12:57	30°♋♈		
	642 Jul 02 j 20:34	0°♏		direct	647 Oct 23 j 18:06	25°♋17'32		
morning rise	642 Jul 11 j 08:14	5°♏30'47			647 Nov 21 j 01:54	0°♌		
	642 Aug 18 j 16:03	0°♐		asc. node	647 Nov 28 j 04:37	2°♌21'37		
	642 Oct 05 j 23:23	0°♑			648 Jan 24 j 17:26	0°♍		
	642 Nov 25 j 10:49	0°♒			648 Mar 16 j 07:17	0°♎		
	643 Jan 21 j 04:40	0°♓			648 May 04 j 19:15	0°♏		
retrograde	643 Mar 26 j 09:07	18°♓07'21			648 Jun 22 j 08:28	0°♐		
desc. node	643 Apr 25 j 23:41	12°♓32'05		evening set	648 Jul 29 j 12:49	23°♐27'32		
opposition	643 Apr 29 j 23:20	11°♓11'12	-0°12'28		648 Aug 08 j 17:56	0°♑		
greatest brilliancy	643 Apr 04 j 06:34	17°♓37'39	-2.4m	max. Earth dist.	648 Aug 25 j 10:52	10°♑48'25	2.63124 AU	
min. Earth dist.	643 May 08 j 10:39	8°♓17'01	0.49094 AU					
direct	643 Jun 06 j 22:40	2°♓40'51		conjunction	648 Sep 13 j 10:48	23°♑16'31	0°49'35	
	643 Aug 19 j 20:58	0°♈		minimum elong	648 Sep 13 j 12:01	23°♑18'31	0°49'33	
	643 Oct 03 j 18:02	0°♉			648 Sep 23 j 13:34	0°♒		
	643 Nov 13 j 13:25	0°♊		morning rise	648 Oct 29 j 14:11	24°♒28'01		
	643 Dec 23 j 14:35	0°♋			648 Nov 06 j 13:42	0°♓		
	644 Feb 02 j 08:56	0°♌		desc. node	648 Dec 15 j 21:28	27°♓53'07		
asc. node	644 Feb 23 j 06:36	14°♌59'31			648 Dec 18 j 19:40	0°♈		
	644 Mar 15 j 15:17	0°♍			649 Jan 28 j 14:37	0°♉		
	644 Apr 28 j 16:32	0°♎			649 Mar 09 j 10:40	0°♊		
evening set	644 May 13 j 10:33	9°♎47'38			649 Apr 18 j 02:22	0°♋		
	644 Jun 13 j 08:32	0°♏			649 May 28 j 19:59	0°♌		
					649 Jul 12 j 03:00	0°♍		
conjunction	644 Jul 01 j 21:27	11°♏57'14	1°01'23		649 Sep 10 j 10:19	0°♎		
minimum elong	644 Jul 01 j 20:22	11°♏55'30	1°01'23	retrograde	649 Oct 05 j 20:33	4°♎07'58		
max. Earth dist.	644 Jul 10 j 01:11	17°♏11'07	2.66075 AU	asc. node	649 Oct 15 j 03:35	3°♎29'52		
	644 Jul 30 j 02:48	0°♐			649 Oct 29 j 21:53	30°♋♍		
morning rise	644 Aug 16 j 23:52	11°♐22'21		min. Earth dist.	649 Nov 06 j 22:07	27°♋08'23	0.55462 AU	
	644 Sep 15 j 08:29	0°♑		opposition	649 Nov 13 j 16:10	24°♋31'08	1°21'44	
	644 Nov 01 j 16:47	0°♒		greatest brilliancy	649 Nov 13 j 07:08	24°♋39'55	-1.9m	
	644 Dec 19 j 06:47	0°♓		direct	649 Dec 19 j 13:34	16°♋24'57		
	645 Feb 06 j 00:14	0°♈			650 Feb 11 j 03:37	0°♎		
desc. node	645 Mar 12 j 23:24	20°♈15'55			650 Apr 11 j 18:48	0°♏		
	645 Mar 31 j 07:13	0°♉			650 Jun 02 j 12:59	0°♐		
retrograde	645 Jun 05 j 18:17	20°♉41'55			650 Jul 21 j 03:10	0°♑		
opposition	645 Jul 06 j 01:17	15°♉41'59	-6°15'51		650 Sep 05 j 03:45	0°♒		
greatest brilliancy	645 Jul 06 j 15:18	15°♉32'33	-2.9m	evening set	650 Sep 06 j 09:00	0°♒49'02		
min. Earth dist.	645 Jul 08 j 21:14	14°♉56'21	0.38021 AU	max. Earth dist.	650 Sep 23 j 11:42	12°♒25'05	2.53918 AU	
direct	645 Aug 05 j 20:59	10°♉23'18			650 Oct 18 j 18:06	0°♓		
	645 Oct 05 j 09:23	0°♊						
	645 Nov 23 j 15:14	0°♋		conjunction	650 Oct 25 j 08:09	4°♓40'17	0°05'19	
	646 Jan 07 j 19:51	0°♌		minimum elong	650 Oct 25 j 08:23	4°♓40'41	0°05'19	
asc. node	646 Jan 10 j 04:50	1°♌35'18		behind sun begin	650 Oct 24 j 11:59	4°♓04'24		
	646 Feb 21 j 21:12	0°♍		behind sun end	650 Oct 26 j 04:46	5°♓16'59		
	646 Apr 08 j 19:06	0°♎		desc. node	650 Nov 02 j 20:46	10°♓46'29		
	646 May 25 j 15:03	0°♏			650 Nov 29 j 04:47	0°♈		
evening set	646 Jun 23 j 03:19	18°♏05'57		morning rise	650 Dec 17 j 03:24	13°♈24'05		
	646 Jul 11 j 21:40	0°♐			651 Jan 07 j 23:34	0°♉		
max. Earth dist.	646 Aug 02 j 09:27	13°♐39'58	2.67290 AU		651 Feb 15 j 18:19	0°♊		
					651 Mar 26 j 08:05	0°♋		
conjunction	646 Aug 08 j 08:13	17°♐27'34	1°08'44		651 May 04 j 15:22	0°♌		
minimum elong	646 Aug 08 j 08:32	17°♐28'04	1°08'44		651 Jun 14 j 19:18	0°♍		
	646 Aug 27 j 22:08	0°♑			651 Jul 29 j 13:39	0°♎		
morning rise	646 Sep 21 j 19:50	16°♑05'36		asc. node	651 Sep 02 j 01:32	20°♑15'54		
	646 Oct 13 j 02:33	0°♒			651 Sep 21 j 13:07	0°♏		

retrograde	651 Nov 12 j 18:16	13°♄55'09			657 Jan 22 j 15:40	0°♄	
min. Earth dist.	651 Dec 19 j 15:21	5°♄14'50	0.64679 AU	evening set	657 Mar 01 j 16:25	29°♄04'12	
opposition	651 Dec 22 j 20:12	3°♄57'40	3°49'41		657 Mar 02 j 22:09	0°♄	
greatest brilliancy	651 Dec 22 j 08:38	4°♄09'17	-1.4m		657 Apr 12 j 20:23	0°♄	
	652 Jan 02 j 04:48	30°♄II		asc. node	657 Apr 23 j 23:33	7°♄55'03	
direct	652 Jan 30 j 22:11	24°♄41'46					
	652 Mar 02 j 19:21	0°♄		conjunction	657 May 01 j 07:55	13°♄05'12	0°04'36
	652 May 09 j 03:18	0°♄		minimum elong	657 May 01 j 07:36	13°♄04'40	0°04'36
	652 Jun 30 j 02:03	0°♄		behind sun begin	657 Apr 30 j 08:25	12°♄24'04	
	652 Aug 16 j 03:28	0°♄		behind sun end	657 May 02 j 06:47	13°♄45'13	
desc. node	652 Sep 19 j 19:26	23°♄37'40			657 May 25 j 19:29	0°♄	
	652 Sep 28 j 20:32	0°♄		max. Earth dist.	657 Jun 03 j 13:02	5°♄55'15	2.55401 AU
evening set	652 Oct 21 j 12:41	16°♄20'27		morning rise	657 Jun 24 j 23:31	20°♄14'11	
	652 Nov 08 j 23:28	0°♄			657 Jul 09 j 20:45	0°♄	
max. Earth dist.	652 Nov 09 j 08:36	0°♄17'05	2.41325 AU		657 Aug 25 j 20:55	0°♄	
					657 Oct 14 j 00:29	0°♄	
conjunction	652 Dec 17 j 23:48	29°♄47'13	-0°50'54		657 Dec 06 j 05:01	0°♄	
minimum elong	652 Dec 17 j 21:21	29°♄42'29	0°50'53		658 Feb 26 j 17:53	0°♄	
	652 Dec 18 j 06:23	0°♄		retrograde	658 Mar 05 j 05:34	0°♄15'12	
	653 Jan 25 j 13:17	0°♄			658 Mar 11 j 13:43	30°♄	
morning rise	653 Feb 22 j 16:00	22°♄07'41		opposition	658 Apr 10 j 07:36	22°♄36'37	1°30'31
	653 Mar 04 j 17:15	0°♄		greatest brilliancy	658 Apr 10 j 19:19	22°♄25'56	-1.9m
	653 Apr 12 j 15:37	0°♄		min. Earth dist.	658 Apr 18 j 03:13	19°♄46'20	0.54224 AU
	653 May 23 j 04:52	0°♄		desc. node	658 May 12 j 15:26	13°♄41'57	
	653 Jul 05 j 05:06	0°♄		direct	658 May 19 j 22:10	13°♄20'07	
asc. node	653 Jul 20 j 01:04	9°♄50'47			658 Jul 15 j 06:18	0°♄	
	653 Aug 20 j 21:44	0°♄			658 Sep 02 j 18:51	0°♄	
	653 Oct 14 j 09:00	0°♄			658 Oct 14 j 15:18	0°♄	
retrograde	653 Dec 16 j 07:35	18°♄00'00			658 Nov 23 j 04:31	0°♄	
opposition	654 Jan 25 j 05:58	8°♄23'28	4°34'39		659 Jan 01 j 10:14	0°♄	
greatest brilliancy	654 Jan 25 j 07:27	8°♄21'59	-1.3m		659 Feb 10 j 12:57	0°♄	
min. Earth dist.	654 Jan 25 j 21:53	8°♄07'34	0.67671 AU	asc. node	659 Mar 11 j 22:31	21°♄16'42	
	654 Feb 19 j 23:11	30°♄			659 Mar 24 j 06:14	0°♄	
direct	654 Mar 07 j 03:48	28°♄30'53		evening set	659 Apr 26 j 12:46	22°♄59'59	
	654 Mar 23 j 08:04	0°♄			659 May 06 j 21:06	0°♄	
	654 Jun 05 j 22:54	0°♄					
	654 Jul 26 j 10:00	0°♄		conjunction	659 Jun 17 j 05:28	27°♄22'02	0°51'04
desc. node	654 Aug 07 j 18:10	8°♄00'02		minimum elong	659 Jun 17 j 04:02	27°♄19'42	0°51'04
	654 Sep 09 j 02:14	0°♄			659 Jun 21 j 06:31	0°♄	
	654 Oct 20 j 09:00	0°♄		max. Earth dist.	659 Jul 01 j 11:19	6°♄36'48	2.64117 AU
	654 Nov 28 j 13:00	0°♄		morning rise	659 Aug 03 j 20:09	28°♄00'24	
evening set	654 Dec 22 j 07:27	18°♄39'30			659 Aug 06 j 23:22	0°♄	
	655 Jan 05 j 16:03	0°♄			659 Sep 23 j 11:45	0°♄	
	655 Feb 12 j 18:04	0°♄			659 Nov 10 j 16:19	0°♄	
					659 Dec 30 j 05:51	0°♄	
conjunction	655 Feb 27 j 19:30	11°♄42'47	-0°54'57		660 Feb 22 j 07:52	0°♄	
minimum elong	655 Feb 27 j 22:24	11°♄48'24	0°54'55	desc. node	660 Mar 29 j 15:02	15°♄52'39	
	655 Mar 23 j 16:51	0°♄		retrograde	660 May 05 j 10:17	23°♄01'29	
max. Earth dist.	655 Apr 19 j 17:48	20°♄09'27	2.42405 AU	opposition	660 Jun 06 j 00:18	17°♄24'43	-3°57'43
	655 May 03 j 06:25	0°♄		greatest brilliancy	660 Jun 06 j 22:32	17°♄08'09	-2.7m
morning rise	655 May 05 j 14:04	1°♄40'16		min. Earth dist.	660 Jun 12 j 20:25	15°♄22'41	0.41297 AU
asc. node	655 Jun 07 j 00:59	24°♄32'45		direct	660 Jul 09 j 22:52	10°♄49'46	
	655 Jun 14 j 23:37	0°♄			660 Sep 06 j 16:11	0°♄	
	655 Jul 30 j 05:59	0°♄			660 Oct 24 j 07:52	0°♄	
	655 Sep 16 j 17:31	0°♄			660 Dec 06 j 07:33	0°♄	
	655 Nov 10 j 12:17	0°♄			661 Jan 17 j 21:50	0°♄	
retrograde	656 Jan 21 j 12:36	21°♄44'07		asc. node	661 Jan 26 j 21:25	6°♄15'24	
opposition	656 Feb 29 j 05:03	12°♄51'24	3°57'04		661 Mar 02 j 11:26	0°♄	
greatest brilliancy	656 Feb 29 j 20:05	12°♄36'47	-1.4m		661 Apr 16 j 10:49	0°♄	
min. Earth dist.	656 Mar 04 j 17:18	11°♄06'08	0.64072 AU		661 Jun 01 j 17:08	0°♄	
direct	656 Apr 10 j 12:25	2°♄50'46		evening set	661 Jun 07 j 23:24	4°♄00'53	
desc. node	656 Jun 24 j 17:05	27°♄32'03			661 Jul 18 j 17:12	0°♄	
	656 Jun 29 j 05:43	0°♄					
	656 Aug 16 j 21:04	0°♄		conjunction	661 Jul 25 j 01:25	4°♄02'11	1°09'05
	656 Sep 28 j 08:43	0°♄		minimum elong	661 Jul 25 j 01:11	4°♄01'48	1°09'06
	656 Nov 06 j 23:10	0°♄		max. Earth dist.	661 Jul 24 j 13:14	3°♄42'47	2.67482 AU
	656 Dec 15 j 07:49	0°♄			661 Sep 03 j 18:10	0°♄	

morning rise	661 Sep 07 j 19:07	2°♎35'16		min. Earth dist.	666 Dec 03 j 20:05	21°♊35'00	0.61731 AU
	661 Oct 20 j 06:52	0°♊		opposition	666 Dec 08 j 12:27	19°♊42'53	3°07'17
	661 Dec 05 j 01:58	0°♌		greatest brilliancy	666 Dec 07 j 22:43	19°♊56'35	-1.6m
	662 Jan 19 j 06:25	0°♈		direct	667 Jan 15 j 12:18	10°♊49'35	
desc. node	662 Feb 14 j 15:22	17°♈35'48			667 Mar 23 j 11:41	0°♊	
	662 Mar 05 j 06:34	0°♊			667 May 19 j 15:51	0°♌	
	662 Apr 20 j 09:33	0°♋			667 Jul 08 j 20:46	0°♎	
	662 Jun 13 j 09:59	0°♈			667 Aug 24 j 09:44	0°♊	
retrograde	662 Jul 24 j 06:47	10°♈03'38		evening set	667 Oct 03 j 04:54	27°♊18'02	
min. Earth dist.	662 Aug 20 j 04:30	5°♈37'03	0.38730 AU	desc. node	667 Oct 07 j 11:31	0°♌19'26	
greatest brilliancy	662 Aug 24 j 10:40	4°♈23'47	-2.8m		667 Oct 07 j 00:33	0°♌	
opposition	662 Aug 25 j 08:42	4°♈07'56	-6°02'35	max. Earth dist.	667 Oct 18 j 01:38	7°♌53'11	2.46366 AU
	662 Sep 11 j 14:19	30°♋			667 Nov 17 j 05:44	0°♈	
direct	662 Sep 24 j 04:32	28°♋56'45					
	662 Oct 06 j 22:58	0°♈		conjunction	667 Nov 25 j 12:46	6°♈12'58	-0°30'12
asc. node	662 Dec 14 j 19:53	28°♈30'34		minimum elong	667 Nov 25 j 11:07	6°♈09'52	0°30'10
	662 Dec 17 j 11:39	0°♎			667 Dec 26 j 16:23	0°♊	
	663 Feb 05 j 21:31	0°♉		morning rise	668 Jan 25 j 08:06	23°♊06'31	
	663 Mar 26 j 07:04	0°♊			668 Feb 03 j 02:56	0°♋	
	663 May 13 j 10:42	0°♊			668 Mar 12 j 09:41	0°♈	
	663 Jun 30 j 08:55	0°♌			668 Apr 20 j 09:58	0°♎	
evening set	663 Jul 16 j 02:13	9°♌55'30			668 May 31 j 02:03	0°♉	
	663 Aug 16 j 13:22	0°♎			668 Jul 13 j 11:16	0°♊	
max. Earth dist.	663 Aug 16 j 19:14	0°♎09'26	2.65399 AU	asc. node	668 Aug 05 j 17:32	15°♊01'16	
					668 Aug 30 j 12:58	0°♊	
conjunction	663 Aug 30 j 18:16	9°♎10'45	1°00'05		668 Nov 02 j 06:41	0°♌	
minimum elong	663 Aug 30 j 19:16	9°♎12'23	1°00'04	retrograde	668 Dec 02 j 22:43	5°♌12'37	
	663 Oct 01 j 11:14	0°♊			668 Dec 31 j 03:11	30°♋	
morning rise	663 Oct 14 j 19:02	8°♊54'07		min. Earth dist.	669 Jan 11 j 04:46	25°♊45'49	0.67273 AU
	663 Nov 14 j 19:29	0°♌		opposition	669 Jan 12 j 01:38	25°♊24'54	4°27'07
	663 Dec 27 j 14:29	0°♈		greatest brilliancy	669 Jan 11 j 21:15	25°♊29'18	-1.3m
desc. node	664 Jan 02 j 13:43	4°♈15'59		direct	669 Feb 21 j 10:05	15°♊43'40	
	664 Feb 07 j 01:35	0°♊			669 Apr 18 j 13:59	0°♌	
	664 Mar 18 j 15:52	0°♋			669 Jun 15 j 21:32	0°♎	
	664 Apr 28 j 05:29	0°♈			669 Aug 03 j 13:05	0°♊	
	664 Jun 09 j 12:12	0°♎		desc. node	669 Aug 24 j 10:25	13°♊53'03	
	664 Jul 28 j 20:11	0°♉			669 Sep 16 j 17:14	0°♌	
retrograde	664 Sep 18 j 17:22	15°♉23'24			669 Oct 27 j 21:23	0°♈	
min. Earth dist.	664 Oct 18 j 14:25	9°♉13'34	0.50495 AU	evening set	669 Nov 25 j 23:25	22°♈09'52	
opposition	664 Oct 26 j 09:13	6°♉19'50	-0°16'36		669 Dec 06 j 01:39	0°♊	
greatest brilliancy	664 Oct 28 j 14:50	5°♉30'21	-2.2m		670 Jan 13 j 05:19	0°♋	
asc. node	664 Oct 31 j 19:11	4°♉22'08					
	664 Nov 17 j 00:51	30°♋		conjunction	670 Jan 29 j 20:04	13°♋07'40	-1°04'55
direct	664 Nov 29 j 15:36	28°♎54'52		minimum elong	670 Jan 29 j 20:34	13°♋08'38	1°04'55
	664 Dec 12 j 21:29	0°♉			670 Feb 20 j 07:06	0°♈	
	665 Feb 26 j 12:52	0°♊		max. Earth dist.	670 Mar 03 j 20:32	9°♈00'51	2.37720 AU
	665 Apr 21 j 01:43	0°♊			670 Mar 31 j 04:28	0°♎	
	665 Jun 10 j 04:32	0°♌		morning rise	670 Apr 09 j 21:44	7°♎19'46	
	665 Jul 28 j 04:37	0°♎			670 May 10 j 16:19	0°♉	
evening set	665 Aug 21 j 19:34	15°♎55'08			670 Jun 22 j 09:46	0°♊	
max. Earth dist.	665 Sep 11 j 07:08	29°♎28'20	2.58075 AU	asc. node	670 Jun 23 j 16:19	0°♊52'00	
	665 Sep 12 j 02:03	0°♊			670 Aug 06 j 23:36	0°♊	
					670 Sep 25 j 18:01	0°♌	
conjunction	665 Oct 08 j 02:08	17°♊40'02	0°25'11		670 Nov 26 j 15:17	0°♎	
minimum elong	665 Oct 08 j 03:04	17°♊41'39	0°25'09	retrograde	671 Jan 06 j 22:35	8°♎32'56	
	665 Oct 25 j 19:13	0°♌			671 Feb 13 j 13:46	30°♋	
desc. node	665 Nov 19 j 12:21	17°♌36'56		opposition	671 Feb 15 j 06:07	29°♌20'22	4°21'53
morning rise	665 Nov 26 j 10:28	22°♌37'56		greatest brilliancy	671 Feb 15 j 16:34	29°♌10'04	-1.3m
	665 Dec 06 j 12:21	0°♈		min. Earth dist.	671 Feb 18 j 06:25	28°♌09'08	0.66257 AU
	666 Jan 15 j 15:05	0°♊		direct	671 Mar 28 j 14:22	19°♌19'01	
	666 Feb 23 j 17:50	0°♋			671 May 14 j 03:34	0°♎	
	666 Apr 03 j 15:02	0°♈			671 Jul 11 j 08:43	0°♊	
	666 May 13 j 06:27	0°♎		desc. node	671 Jul 12 j 08:42	0°♊36'05	
	666 Jun 24 j 01:27	0°♉			671 Aug 26 j 18:08	0°♌	
	666 Aug 09 j 18:20	0°♊			671 Oct 07 j 14:12	0°♈	
asc. node	666 Sep 18 j 19:04	20°♊16'33			671 Nov 15 j 22:41	0°♊	
retrograde	666 Oct 29 j 17:14	29°♊39'30			671 Dec 24 j 03:53	0°♋	

	672 Jan 31 j 08:20	0°♄		676 Dec 13 j 10:48	0°♍
evening set	672 Feb 04 j 04:54	3°♄00'09		677 Jan 29 j 13:01	0°♄
	672 Mar 10 j 10:28	0°♄	desc. node	677 Mar 03 j 06:35	20°♄21'21
				677 Mar 19 j 07:44	0°♄
conjunction	672 Apr 08 j 23:08	21°♄53'38 -0°19'48		677 May 16 j 10:55	0°♄
minimum elong	672 Apr 09 j 00:33	21°♄56'13 0°19'47	retrograde	677 Jun 24 j 03:28	8°♄27'27
	672 Apr 20 j 03:50	0°♄	opposition	677 Jul 24 j 07:28	3°♄26'27 -6°51'49
asc. node	672 May 10 j 16:17	14°♄34'38	greatest brilliancy	677 Jul 24 j 08:06	3°♄26'02 -2.9m
max. Earth dist.	672 May 20 j 17:16	21°♄34'44 2.50651 AU	min. Earth dist.	677 Jul 24 j 04:41	3°♄28'17 0.37403 AU
	672 Jun 01 j 22:54	0°♄		677 Aug 07 j 16:36	30°♄
morning rise	672 Jun 06 j 22:15	3°♄23'21	direct	677 Aug 23 j 03:08	28°♄28'49
	672 Jul 16 j 23:35	0°♄		677 Sep 07 j 10:25	0°♄
	672 Sep 02 j 08:06	0°♄		677 Nov 13 j 15:50	0°♄
	672 Oct 22 j 19:16	0°♄	asc. node	677 Dec 31 j 12:32	29°♄52'48
	672 Dec 20 j 10:02	0°♄		677 Dec 31 j 17:01	0°♄
retrograde	673 Feb 14 j 18:44	14°♄25'15		678 Feb 16 j 00:06	0°♄
opposition	673 Mar 24 j 01:51	6°♄12'41 2°44'27		678 Apr 03 j 14:02	0°♄
greatest brilliancy	673 Mar 24 j 18:45	5°♄56'44 -1.7m		678 May 20 j 19:06	0°♄
min. Earth dist.	673 Mar 30 j 18:12	3°♄41'47 0.58745 AU	evening set	678 Jul 01 j 14:26	26°♄25'00
	673 Apr 10 j 16:45	30°♄		678 Jul 07 j 06:20	0°♄
direct	673 May 03 j 16:45	26°♄29'12	max. Earth dist.	678 Aug 07 j 16:29	19°♄58'21 2.66848 AU
	673 May 28 j 01:00	0°♄			
desc. node	673 May 29 j 08:15	0°♄21'46	conjunction	678 Aug 16 j 11:47	25°♄36'19 1°06'41
	673 Jul 30 j 12:48	0°♄	minimum elong	678 Aug 16 j 12:23	25°♄37'16 1°06'41
	673 Sep 13 j 12:44	0°♄		678 Aug 23 j 08:02	0°♄
	673 Oct 24 j 01:42	0°♄	morning rise	678 Sep 30 j 00:27	24°♄28'27
	673 Dec 01 j 22:53	0°♄		678 Oct 08 j 09:59	0°♄
	674 Jan 09 j 16:54	0°♄		678 Nov 22 j 04:50	0°♄
	674 Feb 18 j 09:10	0°♄		679 Jan 04 j 16:36	0°♄
asc. node	674 Mar 28 j 14:16	27°♄47'21	desc. node	679 Jan 19 j 05:29	10°♄12'48
	674 Mar 31 j 16:56	0°♄		679 Feb 16 j 02:00	0°♄
evening set	674 Apr 06 j 17:47	4°♄16'01		679 Mar 29 j 20:35	0°♄
	674 May 13 j 23:54	0°♄		679 May 11 j 03:32	0°♄
				679 Jun 26 j 09:46	0°♄
conjunction	674 May 31 j 09:11	11°♄40'54 0°36'24	retrograde	679 Aug 31 j 04:55	23°♄23'08
minimum elong	674 May 31 j 07:44	11°♄38'28 0°36'22	min. Earth dist.	679 Sep 27 j 23:49	18°♄05'12 0.45324 AU
max. Earth dist.	674 Jun 21 j 10:42	25°♄35'55 2.61325 AU	greatest brilliancy	679 Oct 05 j 11:03	15°♄30'50 -2.4m
	674 Jun 28 j 04:23	0°♄	opposition	679 Oct 06 j 02:41	15°♄17'17 -2°23'58
morning rise	674 Jul 20 j 03:09	14°♄12'00	direct	679 Nov 07 j 14:38	8°♄42'57
	674 Aug 13 j 21:43	0°♄	asc. node	679 Nov 18 j 11:56	9°♄28'39
	674 Sep 30 j 20:27	0°♄		680 Jan 15 j 00:11	0°♄
	674 Nov 19 j 07:04	0°♄		680 Mar 09 j 21:59	0°♄
	675 Jan 11 j 08:38	0°♄		680 Apr 29 j 12:05	0°♄
retrograde	675 Apr 08 j 21:03	29°♄53'54		680 Jun 17 j 12:34	0°♄
desc. node	675 Apr 16 j 07:33	29°♄33'24		680 Aug 04 j 02:52	0°♄
opposition	675 May 12 j 11:29	23°♄24'50 -1°26'09	evening set	680 Aug 06 j 21:45	1°♄47'22
greatest brilliancy	675 May 22 j 22:05	23°♄16'06 -2.4m	max. Earth dist.	680 Aug 31 j 09:14	17°♄41'19 2.61546 AU
min. Earth dist.	675 May 20 j 21:52	20°♄38'50 0.46195 AU		680 Sep 18 j 23:21	0°♄
direct	675 Jun 18 j 06:35	15°♄29'34			
	675 Aug 07 j 14:10	0°♄	conjunction	680 Sep 22 j 03:37	2°♄07'37 0°41'41
	675 Sep 25 j 21:13	0°♄	minimum elong	680 Sep 22 j 04:50	2°♄09'39 0°41'40
	675 Nov 06 j 23:24	0°♄		680 Nov 01 j 21:16	0°♄
	675 Dec 17 j 17:01	0°♄	morning rise	680 Nov 08 j 04:22	4°♄24'40
	676 Jan 27 j 22:23	0°♄	desc. node	680 Dec 06 j 04:24	24°♄22'08
asc. node	676 Feb 13 j 12:36	11°♄49'07		680 Dec 13 j 22:49	0°♄
	676 Mar 10 j 12:58	0°♄		681 Jan 23 j 11:44	0°♄
	676 Apr 23 j 20:14	0°♄		681 Mar 04 j 00:46	0°♄
evening set	676 May 23 j 01:28	19°♄13'19		681 Apr 12 j 08:17	0°♄
	676 Jun 08 j 16:13	0°♄		681 May 22 j 12:54	0°♄
				681 Jul 04 j 12:22	0°♄
conjunction	676 Jul 10 j 12:17	20°♄26'32 1°05'25		681 Aug 24 j 23:31	0°♄
minimum elong	676 Jul 10 j 11:29	20°♄25'15 1°05'26	asc. node	681 Oct 05 j 10:08	13°♄34'13
max. Earth dist.	676 Jul 15 j 10:53	23°♄35'54 2.66820 AU	retrograde	681 Oct 14 j 20:43	14°♄10'53
	676 Jul 25 j 11:47	0°♄	min. Earth dist.	681 Nov 17 j 01:42	6°♄46'54 0.57917 AU
morning rise	676 Aug 24 j 23:29	19°♄24'07	opposition	681 Nov 23 j 03:36	4°♄23'25 2°06'50
	676 Sep 10 j 15:12	0°♄	greatest brilliancy	681 Nov 22 j 15:16	4°♄35'32 -1.8m
	676 Oct 27 j 15:16	0°♄		681 Dec 05 j 05:45	30°♄

direct	681 Dec 29 j 20:23	25°♄58'27		minimum elong	687 Mar 15 j 15:33	27°♄32'27	0°43'43
	682 Jan 25 j 21:19	0°♂			687 Mar 18 j 21:25	0°♂	
	682 Apr 04 j 23:42	0°♄			687 Apr 28 j 11:07	0°♄	
	682 May 28 j 04:31	0°♂		max. Earth dist.	687 May 03 j 22:41	3°♄56'33	2.45390 AU
	682 Jul 16 j 06:52	0°♄		morning rise	687 May 18 j 13:32	14°♄19'36	
	682 Aug 31 j 11:48	0°♂		asc. node	687 May 28 j 06:53	21°♄07'39	
evening set	682 Sep 15 j 18:00	10°♂18'18			687 Jun 10 j 03:43	0°♂	
max. Earth dist.	682 Oct 01 j 12:54	21°♂10'50	2.51346 AU		687 Jul 25 j 06:12	0°♄	
	682 Oct 14 j 02:34	0°♂			687 Sep 11 j 04:32	0°♂	
desc. node	682 Oct 24 j 03:03	7°♂07'44			687 Nov 02 j 19:43	0°♄	
					688 Jan 28 j 06:30	0°♂	
conjunction	682 Nov 05 j 00:02	15°♂41'31	-0°07'27	retrograde	688 Jan 30 j 07:36	0°♂01'32	
minimum elong	682 Nov 04 j 23:40	15°♂40'51	0°07'27		688 Feb 01 j 08:17	30°♄	
behind sun begin	682 Nov 04 j 03:43	15°♂04'40		opposition	688 Mar 08 j 13:50	21°♄21'36	3°35'23
behind sun end	682 Nov 05 j 19:37	16°♂17'04		greatest brilliancy	688 Mar 09 j 06:22	21°♄05'39	-1.5m
	682 Nov 24 j 11:41	0°♄		min. Earth dist.	688 Mar 13 j 21:05	19°♄19'04	0.62447 AU
morning rise	682 Dec 30 j 06:59	27°♄01'53		direct	688 Apr 18 j 17:55	11°♄24'40	
	683 Jan 03 j 03:48	0°♄		desc. node	688 Jun 15 j 00:04	27°♄20'08	
	683 Feb 10 j 19:36	0°♄			688 Jun 20 j 11:12	0°♂	
	683 Mar 21 j 06:34	0°♄			688 Aug 10 j 16:49	0°♂	
	683 Apr 29 j 10:23	0°♄			688 Sep 22 j 21:02	0°♄	
	683 Jun 09 j 07:55	0°♄			688 Nov 01 j 18:13	0°♄	
	683 Jul 23 j 09:12	0°♂			688 Dec 10 j 06:24	0°♄	
asc. node	683 Aug 23 j 09:37	19°♂06'01			689 Jan 17 j 16:55	0°♄	
	683 Sep 12 j 03:05	0°♄			689 Feb 26 j 01:38	0°♄	
retrograde	683 Nov 20 j 13:00	22°♄06'47		evening set	689 Mar 15 j 10:57	12°♄53'25	
min. Earth dist.	683 Dec 28 j 07:31	13°♄09'02	0.65875 AU		689 Apr 08 j 01:46	0°♄	
opposition	683 Dec 30 j 16:51	12°♄11'28	4°07'24	asc. node	689 Apr 14 j 06:46	4°♄25'10	
greatest brilliancy	683 Dec 30 j 07:24	12°♄20'57	-1.4m				
direct	684 Feb 08 j 07:23	2°♄45'23		conjunction	689 May 12 j 20:02	24°♄21'01	0°17'20
	684 May 02 j 01:48	0°♂		minimum elong	689 May 12 j 19:06	24°♄19'25	0°17'20
	684 Jun 24 j 16:18	0°♄			689 May 21 j 02:18	0°♂	
	684 Aug 11 j 05:48	0°♂		max. Earth dist.	689 Jun 10 j 14:39	13°♂49'27	2.57706 AU
desc. node	684 Sep 10 j 02:36	20°♂11'22		morning rise	689 Jul 04 j 12:14	29°♂35'29	
	684 Sep 24 j 02:42	0°♂			689 Jul 05 j 03:16	0°♄	
evening set	684 Nov 02 j 13:44	28°♂44'14			689 Aug 20 j 23:27	0°♂	
	684 Nov 04 j 06:14	0°♄			689 Oct 08 j 13:47	0°♄	
max. Earth dist.	684 Nov 30 j 10:51	19°♄53'58	2.38801 AU		689 Nov 28 j 23:24	0°♂	
	684 Dec 13 j 12:11	0°♄			690 Jan 29 j 02:14	0°♂	
				retrograde	690 Mar 16 j 18:48	10°♂32'48	
conjunction	685 Jan 01 j 18:04	15°♄02'46	-0°59'37	opposition	690 Apr 21 j 02:30	3°♂16'36	0°35'19
minimum elong	685 Jan 01 j 16:00	14°♄58'43	0°59'37	greatest brilliancy	690 Apr 21 j 07:38	3°♂12'03	-2.1m
	685 Jan 20 j 17:41	0°♄		min. Earth dist.	690 Apr 29 j 09:39	0°♂21'09	0.51441 AU
	685 Feb 27 j 20:30	0°♄			690 Apr 30 j 10:29	30°♄	
morning rise	685 Mar 11 j 20:38	9°♄21'25		desc. node	690 May 02 j 22:52	29°♂10'00	
	685 Apr 07 j 17:51	0°♄		direct	690 May 29 j 22:07	24°♂22'58	
	685 May 18 j 05:30	0°♄			690 Jun 29 j 06:05	0°♂	
	685 Jun 30 j 01:35	0°♂			690 Aug 25 j 20:32	0°♄	
asc. node	685 Jul 10 j 08:24	6°♂54'37			690 Oct 08 j 03:38	0°♄	
	685 Aug 15 j 04:30	0°♄			690 Nov 17 j 07:37	0°♄	
	685 Oct 06 j 05:21	0°♂			690 Dec 26 j 22:44	0°♄	
retrograde	685 Dec 24 j 01:31	25°♂44'01			691 Feb 05 j 08:37	0°♄	
opposition	686 Feb 01 j 19:50	16°♂15'02	4°33'22	asc. node	691 Mar 02 j 05:46	17°♄56'41	
greatest brilliancy	686 Feb 02 j 00:35	16°♂10'20	-1.3m		691 Mar 19 j 07:31	0°♄	
min. Earth dist.	686 Feb 03 j 07:37	15°♂39'29	0.67462 AU		691 May 02 j 02:44	0°♂	
direct	686 Mar 14 j 23:10	6°♂18'11		evening set	691 May 06 j 22:27	3°♂13'46	
	686 May 29 j 11:40	0°♄			691 Jun 16 j 14:35	0°♄	
	686 Jul 20 j 19:32	0°♂					
desc. node	686 Jul 29 j 01:49	5°♂14'31		conjunction	691 Jun 26 j 07:33	6°♄17'09	0°57'35
	686 Sep 04 j 00:21	0°♂		minimum elong	691 Jun 26 j 06:17	6°♄15'07	0°57'34
	686 Oct 15 j 11:38	0°♄		max. Earth dist.	691 Jul 07 j 01:48	13°♄13'15	2.65296 AU
	686 Nov 23 j 17:01	0°♄			691 Aug 02 j 07:23	0°♂	
	686 Dec 31 j 20:19	0°♄		morning rise	691 Aug 12 j 00:24	6°♂10'32	
evening set	687 Jan 07 j 01:19	4°♄54'25			691 Sep 18 j 15:31	0°♄	
	687 Feb 07 j 22:28	0°♄			691 Nov 05 j 07:44	0°♂	
					691 Dec 23 j 15:40	0°♂	
conjunction	687 Mar 15 j 12:36	27°♄26'51	-0°43'45		692 Feb 12 j 03:30	0°♄	

desc. node	692 Mar 19 j 22:40	19°♊36'19			697 Jul 23 j 11:26	0°♎	
	692 Apr 12 j 18:18	0°♊		evening set	697 Aug 30 j 13:46	24°♎43'46	
retrograde	692 May 22 j 13:47	8°♊26'28			697 Sep 07 j 11:43	0°♎	
opposition	692 Jun 22 j 08:23	3°♊14'08 -5°22'41		max. Earth dist.	697 Sep 18 j 01:05	7°♎06'24	2.55870 AU
greatest brilliancy	692 Jun 23 j 05:20	2°♊59'24 -2.8m					
min. Earth dist.	692 Jun 27 j 06:33	1°♊51'27 0.39197 AU		conjunction	697 Oct 17 j 16:31	27°♎32'27	0°14'07
	692 Jul 04 j 10:44	30°♊♊		minimum elong	697 Oct 17 j 17:06	27°♎33'30	0°14'06
direct	692 Jul 24 j 11:13	27°♊24'55		behind sun begin	697 Oct 17 j 06:41	27°♎15'14	
	692 Aug 13 j 04:57	0°♊		behind sun end	697 Oct 18 j 03:31	27°♎51'46	
	692 Oct 14 j 09:24	0°♊			697 Oct 21 j 04:28	0°♎	
	692 Nov 28 j 22:13	0°♋		desc. node	697 Nov 09 j 20:13	14°♎00'08	
	693 Jan 11 j 17:24	0°♋			697 Dec 01 j 18:53	0°♊	
asc. node	693 Jan 17 j 04:02	3°♋43'19		morning rise	697 Dec 07 j 19:03	4°♊26'30	
	693 Feb 24 j 23:50	0°♋			698 Jan 10 j 17:43	0°♊	
	693 Apr 11 j 10:03	0°♌			698 Feb 18 j 15:57	0°♊	
	693 May 27 j 22:54	0°♌			698 Mar 29 j 08:30	0°♋	
evening set	693 Jun 16 j 17:33	12°♌36'34			698 May 07 j 18:07	0°♋	
	693 Jul 14 j 02:07	0°♌			698 Jun 18 j 01:55	0°♋	
max. Earth dist.	693 Jul 29 j 18:38	9°♌58'35 2.67480 AU			698 Aug 02 j 09:36	0°♌	
				asc. node	698 Sep 09 j 00:47	21°♌07'47	
conjunction	693 Aug 02 j 06:32	12°♌12'10 1°09'21			698 Sep 29 j 00:53	0°♌	
minimum elong	693 Aug 02 j 06:37	12°♌12'18 1°09'21		retrograde	698 Nov 06 j 19:53	8°♌23'40	
	693 Aug 30 j 02:55	0°♎			698 Dec 12 j 21:57	30°♎♎	
morning rise	693 Sep 15 j 19:28	10°♎44'24		min. Earth dist.	698 Dec 12 j 22:59	29°♎58'58	0.63489 AU
	693 Oct 15 j 11:08	0°♎		opposition	698 Dec 16 j 20:11	28°♎25'39	3°34'02
	693 Nov 29 j 20:31	0°♎		greatest brilliancy	698 Dec 16 j 07:14	28°♎38'37	-1.5m
	694 Jan 13 j 07:53	0°♊		direct	699 Jan 24 j 11:53	19°♎19'12	
desc. node	694 Feb 04 j 21:20	15°♊24'24			699 Mar 12 j 18:31	0°♌	
	694 Feb 26 j 03:50	0°♊			699 May 13 j 13:13	0°♌	
	694 Apr 11 j 02:05	0°♊			699 Jul 03 j 17:59	0°♎	
	694 May 27 j 15:36	0°♋			699 Aug 19 j 15:11	0°♎	
retrograde	694 Aug 08 j 05:14	27°♋07'32		desc. node	699 Sep 27 j 18:56	26°♎46'26	
min. Earth dist.	694 Sep 03 j 18:03	22°♋32'27 0.40642 AU			699 Oct 02 j 08:36	0°♎	
opposition	694 Sep 10 j 16:49	20°♋24'38 -4°49'55		evening set	699 Oct 13 j 20:51	8°♎13'00	
greatest brilliancy	694 Sep 09 j 16:11	20°♋43'35 -2.7m		max. Earth dist.	699 Oct 29 j 20:08	19°♎49'45	2.43565 AU
direct	694 Oct 11 j 06:52	14°♋47'01			699 Nov 12 j 13:40	0°♊	
asc. node	694 Dec 05 j 03:47	0°♋03'46					
	694 Dec 05 j 00:34	0°♋		conjunction	699 Dec 08 j 08:14	19°♊30'33 -0°42'32	
	695 Jan 29 j 14:09	0°♋		minimum elong	699 Dec 08 j 05:59	19°♊26'14 0°42'31	
	695 Mar 20 j 12:55	0°♌			699 Dec 21 j 23:01	0°♊	
	695 May 08 j 09:05	0°♌			700 Jan 29 j 07:41	0°♊	
	695 Jun 25 j 15:23	0°♌		morning rise	700 Feb 10 j 12:00	9°♊35'01	
evening set	695 Jul 24 j 08:24	18°♌06'27			700 Mar 07 j 12:31	0°♋	
	695 Aug 11 j 23:07	0°♎			700 Apr 15 j 10:50	0°♋	
max. Earth dist.	695 Aug 22 j 07:12	6°♎40'07 2.64239 AU			700 May 25 j 23:37	0°♋	
					700 Jul 08 j 01:22	0°♌	
conjunction	695 Sep 08 j 02:21	17°♎36'37 0°54'26		asc. node	700 Jul 27 j 00:16	12°♌28'41	
minimum elong	695 Sep 08 j 03:31	17°♎38'31 0°54'26			700 Aug 24 j 03:00	0°♌	
	695 Sep 26 j 20:24	0°♎			700 Oct 19 j 21:26	0°♌	
morning rise	695 Oct 23 j 16:01	18°♎03'59		retrograde	700 Dec 10 j 14:26	13°♌01'55	
	695 Nov 10 j 00:52	0°♎		opposition	701 Jan 19 j 15:49	3°♌19'47	4°32'54
	695 Dec 22 j 13:05	0°♊		greatest brilliancy	701 Jan 19 j 14:36	3°♌21'00	-1.3m
desc. node	695 Dec 23 j 20:25	0°♊56'19		min. Earth dist.	701 Jan 19 j 15:00	3°♌20'36	0.67627 AU
	696 Feb 01 j 15:22	0°♊			701 Jan 28 j 04:39	30°♎♎	
	696 Mar 12 j 18:57	0°♊		direct	701 Mar 01 j 08:52	23°♌31'50	
	696 Apr 21 j 18:54	0°♋			701 Apr 05 j 23:23	0°♌	
	696 Jun 02 j 00:19	0°♋			701 Jun 09 j 14:36	0°♎	
	696 Jul 17 j 16:06	0°♋			701 Jul 29 j 07:06	0°♎	
retrograde	696 Sep 28 j 16:21	26°♋48'05		desc. node	701 Aug 14 j 17:21	10°♎45'43	
asc. node	696 Oct 22 j 02:53	22°♋51'38			701 Sep 11 j 19:22	0°♎	
min. Earth dist.	696 Oct 29 j 19:09	20°♋10'22 0.53306 AU			701 Oct 23 j 02:07	0°♊	
opposition	696 Nov 06 j 01:52	17°♋23'30 0°43'26			701 Dec 01 j 06:59	0°♊	
greatest brilliancy	696 Nov 05 j 20:36	17°♋28'32 -2.0m		evening set	701 Dec 10 j 11:16	7°♊10'27	
direct	696 Dec 11 j 06:10	9°♋34'43			702 Jan 08 j 10:25	0°♊	
	697 Feb 17 j 15:11	0°♌					
	697 Apr 15 j 02:28	0°♌		conjunction	702 Feb 15 j 04:47	29°♊45'51 -1°01'02	
	697 Jun 05 j 02:42	0°♌		minimum elong	702 Feb 15 j 06:57	29°♊50'06 1°01'02	

	702 Feb 15 j 12:01	0°♄		desc. node	707 Apr 06 j 14:01	11°♄10'47	
	702 Mar 26 j 09:24	0°♅		retrograde	707 Apr 23 j 21:19	12°♄54'02	
max. Earth dist.	702 Apr 05 j 05:45	7°♅25'43	2.40086 AU	opposition	707 May 26 j 08:11	6°♄54'08	-2°50'01
morning rise	702 Apr 24 j 20:36	21°♅58'51		greatest brilliancy	707 May 27 j 02:55	6°♄39'29	-2.5m
	702 May 05 j 20:50	0°♆		min. Earth dist.	707 Jun 03 j 03:23	4°♄28'05	0.43372 AU
asc. node	702 Jun 14 j 00:19	27°♆35'48			707 Jun 23 j 23:31	30°♆♌	
	702 Jun 17 j 12:31	0°♇		direct	707 Jun 30 j 15:54	29°♆41'21	
	702 Aug 01 j 19:46	0°♈			707 Jul 07 j 07:55	0°♉	
	702 Sep 19 j 16:29	0°♉			707 Sep 16 j 05:17	0°♊	
	702 Nov 15 j 10:30	0°♋			707 Oct 30 j 15:41	0°♋	
retrograde	703 Jan 15 j 04:06	16°♋29'50			707 Dec 11 j 10:17	0°♌	
opposition	703 Feb 23 j 04:03	7°♋27'35	4°08'54		708 Jan 22 j 07:18	0°♍	
greatest brilliancy	703 Feb 23 j 17:08	7°♋14'46	-1.4m	asc. node	708 Feb 03 j 20:41	8°♍51'24	
min. Earth dist.	703 Feb 27 j 00:07	5°♋57'32	0.65181 AU		708 Mar 05 j 08:29	0°♎	
	703 Mar 16 j 16:28	30°♋♏			708 Apr 18 j 23:11	0°♐	
direct	703 Apr 05 j 12:58	27°♏25'57		evening set	708 Jun 01 j 06:16	28°♐14'34	
	703 Apr 26 j 18:25	0°♑			708 Jun 03 j 23:42	0°♑	
desc. node	703 Jul 02 j 16:17	28°♑55'40					
	703 Jul 04 j 13:18	0°♒		conjunction	708 Jul 18 j 21:17	28°♑43'35	1°08'02
	703 Aug 21 j 04:29	0°♓		minimum elong	708 Jul 18 j 20:48	28°♑42'49	1°08'02
	703 Oct 02 j 10:03	0°♈			708 Jul 20 j 21:15	0°♏	
	703 Nov 10 j 22:26	0°♉		max. Earth dist.	708 Jul 20 j 18:26	29°♑55'30	2.67293 AU
	703 Dec 19 j 05:25	0°♊		morning rise	708 Sep 01 j 21:25	27°♏23'58	
	704 Jan 26 j 11:13	0°♋			708 Sep 05 j 23:11	0°♋	
evening set	704 Feb 19 j 10:34	18°♋29'35			708 Oct 22 j 16:47	0°♌	
	704 Mar 05 j 14:50	0°♍			708 Dec 07 j 22:10	0°♍	
	704 Apr 15 j 09:31	0°♎			709 Jan 22 j 20:17	0°♎	
				desc. node	709 Feb 21 j 14:24	19°♎21'21	
conjunction	704 Apr 21 j 23:47	4°♎43'05	-0°05'39		709 Mar 10 j 03:40	0°♏	
minimum elong	704 Apr 22 j 00:10	4°♎43'45	0°05'38		709 Apr 28 j 04:40	0°♐	
behind sun begin	704 Apr 21 j 00:39	4°♎01'51		retrograde	709 Jul 11 j 15:11	26°♐49'07	
behind sun end	704 Apr 22 j 23:41	5°♎25'36		min. Earth dist.	709 Aug 08 j 12:37	22°♐16'55	0.37741 AU
asc. node	704 Apr 30 j 22:50	11°♎04'09		opposition	709 Aug 11 j 16:03	21°♐25'18	-6°40'42
	704 May 28 j 05:27	0°♏		greatest brilliancy	709 Aug 11 j 02:03	21°♐34'54	-2.9m
max. Earth dist.	704 May 29 j 01:22	0°♏34'00	2.53358 AU	direct	709 Sep 10 j 05:59	16°♐27'36	
morning rise	704 Jun 17 j 10:45	13°♏39'51			709 Oct 30 j 05:18	0°♑	
	704 Jul 12 j 04:51	0°♑		asc. node	709 Dec 21 j 19:04	28°♑57'55	
	704 Aug 28 j 06:59	0°♒			709 Dec 23 j 12:07	0°♒	
	704 Oct 16 j 21:01	0°♓			710 Feb 09 j 17:08	0°♓	
	704 Dec 10 j 17:30	0°♔			710 Mar 29 j 04:43	0°♔	
retrograde	705 Feb 24 j 23:07	23°♔41'37			710 May 15 j 21:11	0°♕	
opposition	705 Apr 02 j 15:27	15°♔46'47	2°04'43		710 Jul 02 j 14:18	0°♏	
greatest brilliancy	705 Apr 03 j 06:05	15°♔33'13	-1.8m	evening set	710 Jul 09 j 22:21	4°♏38'04	
min. Earth dist.	705 Apr 10 j 00:12	13°♔03'35	0.56349 AU	max. Earth dist.	710 Aug 13 j 00:22	26°♏19'23	2.66154 AU
direct	705 May 12 j 18:53	6°♔16'20			710 Aug 18 j 17:51	0°♑	
desc. node	705 May 19 j 14:59	6°♔34'29					
	705 Jul 21 j 22:39	0°♒		conjunction	710 Aug 24 j 15:12	3°♑47'34	1°03'18
	705 Sep 07 j 02:02	0°♈		minimum elong	710 Aug 24 j 16:03	3°♑48'56	1°03'18
	705 Oct 18 j 07:40	0°♉			710 Oct 03 j 18:04	0°♌	
	705 Nov 26 j 12:59	0°♊		morning rise	710 Oct 08 j 08:46	3°♌03'30	
	706 Jan 04 j 12:26	0°♋			710 Nov 17 j 07:45	0°♍	
	706 Feb 13 j 09:13	0°♌			710 Dec 30 j 10:26	0°♎	
asc. node	706 Mar 18 j 21:34	24°♌20'41		desc. node	711 Jan 09 j 12:54	7°♎09'54	
	706 Mar 26 j 20:39	0°♏			711 Feb 10 j 07:18	0°♏	
evening set	706 Apr 18 j 05:36	15°♏37'42			711 Mar 23 j 08:39	0°♐	
	706 May 09 j 06:37	0°♐			711 May 03 j 12:40	0°♑	
					711 Jun 15 j 22:40	0°♒	
conjunction	706 Jun 10 j 03:48	21°♐15'01	0°45'25		711 Aug 10 j 04:27	0°♓	
minimum elong	706 Jun 10 j 02:18	21°♐12'33	0°45'24	retrograde	711 Sep 11 j 15:05	6°♓46'03	
	706 Jun 23 j 12:32	0°♑		min. Earth dist.	711 Oct 10 j 13:19	0°♓59'34	0.48162 AU
max. Earth dist.	706 Jun 27 j 09:37	2°♑31'24	2.62966 AU		711 Oct 13 j 08:03	30°♓♑	
morning rise	706 Jul 28 j 15:25	22°♑38'29		opposition	711 Oct 18 j 14:37	28°♑04'47	-1°07'32
	706 Aug 09 j 04:43	0°♒		greatest brilliancy	711 Oct 18 j 06:59	28°♑11'42	-2.3m
	706 Sep 25 j 20:40	0°♓		asc. node	711 Nov 08 j 18:03	22°♑03'47	
	706 Nov 13 j 12:16	0°♔		direct	711 Nov 21 j 01:38	21°♑01'28	
	707 Jan 03 j 06:45	0°♕			712 Jan 01 j 07:00	0°♖	
	707 Mar 02 j 23:51	0°♈			712 Mar 02 j 21:02	0°♐	

	712 Apr 23 j 23:22	0°☾		morning rise	717 Mar 28 j 12:50	25°☿55'01	
	712 Jun 12 j 14:26	0°♈			717 Apr 02 j 21:36	0°♈	
	712 Jul 30 j 10:54	0°♊			717 May 13 j 07:57	0°♊	
evening set	712 Aug 15 j 08:55	10°♊15'09			717 Jun 25 j 00:41	0°♊	
max. Earth dist.	712 Sep 06 j 12:14	24°♊46'08	2.59727 AU	asc. node	717 Jun 30 j 15:23	3°♊48'20	
	712 Sep 14 j 08:48	0°♊			717 Aug 09 j 17:22	0°☾	
					717 Sep 29 j 04:07	0°♈	
conjunction	712 Oct 01 j 02:26	11°♊16'59	0°32'34		717 Dec 06 j 16:28	0°♊	
minimum elong	712 Oct 01 j 03:32	11°♊18'51	0°32'33	retrograde	717 Dec 31 j 22:48	3°♊31'07	
	712 Oct 28 j 05:11	0°♊			718 Jan 24 j 06:59	30°♊	
morning rise	712 Nov 18 j 06:54	14°♊55'30		opposition	718 Feb 09 j 12:02	24°♊10'40	4°28'00
desc. node	712 Nov 26 j 11:35	20°♊49'04		greatest brilliancy	718 Feb 09 j 19:59	24°♊02'48	-1.3m
	712 Dec 09 j 02:50	0°♊		min. Earth dist.	718 Feb 11 j 19:57	23°♊15'22	0.66920 AU
	713 Jan 18 j 10:44	0°♊		direct	718 Mar 22 j 19:15	14°♊10'50	
	713 Feb 26 j 18:09	0°♊			718 May 20 j 13:40	0°♊	
	713 Apr 06 j 19:20	0°♊			718 Jul 14 j 20:18	0°♊	
	713 May 16 j 15:02	0°♊		desc. node	718 Jul 19 j 07:46	2°♊45'34	
	713 Jun 27 j 18:06	0°♊			718 Aug 29 j 18:17	0°♊	
	713 Aug 14 j 17:51	0°♊			718 Oct 10 j 11:31	0°♊	
asc. node	713 Sep 25 j 17:45	18°♊57'05			718 Nov 18 j 19:27	0°♊	
retrograde	713 Oct 23 j 11:33	23°♊39'34			718 Dec 26 j 23:59	0°♊	
min. Earth dist.	713 Nov 26 j 18:22	15°♊53'00	0.60125 AU	evening set	719 Jan 22 j 23:39	21°♊16'30	
opposition	713 Dec 02 j 02:37	13°♊45'48	2°44'30		719 Feb 03 j 02:58	0°♊	
greatest brilliancy	713 Dec 01 j 12:49	13°♊59'29	-1.7m		719 Mar 14 j 02:53	0°♊	
direct	714 Jan 08 j 13:52	5°♊04'26					
	714 Mar 28 j 07:47	0°☾		conjunction	719 Mar 30 j 06:18	12°♊05'44	-0°30'27
	714 May 22 j 14:27	0°♈		minimum elong	719 Mar 30 j 08:30	12°♊09'50	0°30'25
	714 Jul 11 j 08:30	0°♊			719 Apr 23 j 17:18	0°♊	
	714 Aug 26 j 19:08	0°♊		max. Earth dist.	719 May 14 j 19:04	15°♊00'26	2.48341 AU
evening set	714 Sep 25 j 11:32	20°♊11'51		asc. node	719 May 18 j 15:16	17°♊42'04	
	714 Oct 09 j 11:18	0°♊		morning rise	719 May 30 j 10:38	25°♊54'15	
max. Earth dist.	714 Oct 10 j 07:58	0°♊36'35	2.48643 AU		719 Jun 05 j 09:43	0°♊	
desc. node	714 Oct 14 j 10:41	3°♊31'49			719 Jul 20 j 09:28	0°☾	
					719 Sep 05 j 21:46	0°♈	
conjunction	714 Nov 16 j 07:01	27°♊23'51	-0°20'27		719 Oct 27 j 01:41	0°♊	
minimum elong	714 Nov 16 j 05:56	27°♊21'50	0°20'26		719 Dec 28 j 20:38	0°♊	
	714 Nov 19 j 19:10	0°♊		retrograde	720 Feb 08 j 11:48	8°♊33'47	
	714 Dec 29 j 08:57	0°♊		opposition	720 Mar 17 j 06:23	0°♊08'07	3°08'01
morning rise	715 Jan 13 j 11:48	11°♊42'26			720 Mar 17 j 14:54	30°♊	
	715 Feb 05 j 22:00	0°♊		greatest brilliancy	720 Mar 17 j 23:29	29°♊51'49	-1.6m
	715 Mar 16 j 06:15	0°♊		min. Earth dist.	720 Mar 23 j 08:32	27°♊49'06	0.60511 AU
	715 Apr 24 j 07:17	0°♊		direct	720 Apr 27 j 04:37	20°♊17'22	
	715 Jun 04 j 00:03	0°♊		desc. node	720 Jun 05 j 07:25	28°♊35'58	
	715 Jul 17 j 13:09	0°♊			720 Jun 08 j 20:49	0°♊	
asc. node	715 Aug 13 j 16:45	17°♊16'07			720 Aug 03 j 23:23	0°♊	
	715 Sep 04 j 08:57	0°☾			720 Sep 17 j 02:48	0°♊	
	715 Nov 23 j 13:48	0°♈			720 Oct 27 j 08:53	0°♊	
retrograde	715 Nov 28 j 05:58	0°♈08'26			720 Dec 05 j 01:51	0°♊	
	715 Dec 02 j 20:20	30°♊			721 Jan 12 j 15:46	0°♊	
min. Earth dist.	716 Jan 05 j 20:52	20°☾54'21	0.66772 AU		721 Feb 21 j 03:43	0°♊	
opposition	716 Jan 07 j 10:18	20°☾16'49	4°20'29	evening set	721 Mar 28 j 10:07	25°♊48'28	
greatest brilliancy	716 Jan 07 j 03:30	20°☾23'38	-1.3m		721 Apr 03 j 06:48	0°♊	
direct	716 Feb 16 j 11:56	10°☾41'54		asc. node	721 Apr 04 j 13:29	0°♊54'37	
	716 Apr 23 j 22:22	0°♈			721 May 16 j 09:34	0°♊	
	716 Jun 18 j 23:56	0°♊					
	716 Aug 06 j 05:14	0°♊		conjunction	721 May 23 j 15:09	4°♊53'55	0°28'50
desc. node	716 Aug 31 j 09:28	16°♊50'34		minimum elong	721 May 23 j 13:50	4°♊51'42	0°28'50
	716 Sep 19 j 07:49	0°♊		max. Earth dist.	721 Jun 17 j 02:37	21°♊13'55	2.59813 AU
	716 Oct 30 j 12:51	0°♊			721 Jun 30 j 11:13	0°☾	
evening set	716 Nov 15 j 09:52	11°♊59'38		morning rise	721 Jul 13 j 13:48	8°☾30'49	
	716 Dec 08 j 18:41	0°♊			721 Aug 16 j 04:43	0°♈	
max. Earth dist.	717 Jan 09 j 14:30	24°♊58'20	2.37209 AU		721 Oct 03 j 08:44	0°♊	
	717 Jan 15 j 23:18	0°♊			721 Nov 22 j 12:03	0°♊	
					722 Jan 16 j 22:38	0°♊	
conjunction	717 Jan 17 j 06:51	1°♊02'18	-1°04'26	retrograde	722 Mar 29 j 08:11	21°♊33'30	
minimum elong	717 Jan 17 j 06:01	1°♊00'39	1°04'26	desc. node	722 Apr 23 j 06:47	17°♊44'41	
	717 Feb 23 j 01:05	0°♊		opposition	722 May 02 j 17:58	14°♊42'19	-0°29'54

greatest brilliancy	722 May 02 j 21:50	14°♌39'02	-2.2m	max. Earth dist.	727 Aug 28 j 01:13	13°♍23'56	2.62855 AU
min. Earth dist.	722 May 11 j 06:50	11°♌48'12	0.48556 AU				
direct	722 Jun 09 j 14:06	6°♌17'43		conjunction	727 Sep 16 j 14:48	26°♍15'48	0°47'29
	722 Aug 16 j 05:03	0°♌		minimum elong	727 Sep 16 j 16:01	26°♍17'49	0°47'29
	722 Oct 01 j 00:40	0°♌			727 Sep 22 j 05:40	0°♌	
	722 Nov 11 j 02:38	0°♌		morning rise	727 Nov 01 j 21:33	27°♌37'50	
	722 Dec 21 j 06:05	0°♌			727 Nov 05 j 07:30	0°♌	
	723 Jan 31 j 00:56	0°♌		desc. node	727 Dec 14 j 03:40	27°♌30'25	
asc. node	723 Feb 20 j 11:35	14°♌40'14			727 Dec 17 j 14:30	0°♌	
	723 Mar 14 j 06:49	0°♌			728 Jan 27 j 09:44	0°♌	
	723 Apr 27 j 07:18	0°♌			728 Mar 07 j 05:04	0°♌	
evening set	723 May 16 j 21:36	12°♌59'49			728 Apr 15 j 18:38	0°♌	
	723 Jun 11 j 22:35	0°♌			728 May 26 j 07:20	0°♌	
					728 Jul 09 j 01:10	0°♌	
conjunction	723 Jul 05 j 02:54	14°♌56'23	1°02'39		728 Sep 03 j 03:17	0°♌	
minimum elong	723 Jul 05 j 01:53	14°♌54'46	1°02'38	retrograde	728 Oct 08 j 02:08	7°♌25'24	
max. Earth dist.	723 Jul 12 j 13:10	19°♌42'00	2.66251 AU	asc. node	728 Oct 12 j 09:16	7°♌17'23	
	723 Jul 28 j 16:21	0°♌		min. Earth dist.	728 Nov 09 j 09:03	0°♌21'58	0.55937 AU
morning rise	723 Aug 20 j 01:26	14°♌14'13			728 Nov 10 j 07:54	30°♌	
	723 Sep 13 j 21:22	0°♌		opposition	728 Nov 16 j 01:21	27°♌46'09	1°34'50
	723 Oct 31 j 04:01	0°♌		greatest brilliancy	728 Nov 15 j 15:05	27°♌56'08	-1.9m
	723 Dec 17 j 13:53	0°♌		direct	728 Dec 22 j 02:56	19°♌36'23	
	724 Feb 03 j 21:05	0°♌			729 Feb 05 j 22:25	0°♌	
desc. node	724 Mar 10 j 05:39	20°♌53'35			729 Apr 08 j 15:49	0°♌	
	724 Mar 26 j 17:39	0°♌			729 May 30 j 20:29	0°♌	
retrograde	724 Jun 09 j 19:37	25°♌16'23			729 Jul 18 j 15:43	0°♌	
opposition	724 Jul 09 j 23:03	20°♌17'50	-6°27'30		729 Sep 02 j 19:42	0°♌	
greatest brilliancy	724 Jul 10 j 11:15	20°♌09'42	-2.9m	evening set	729 Sep 08 j 16:20	3°♌55'44	
min. Earth dist.	724 Jul 12 j 07:44	19°♌40'06	0.37839 AU	max. Earth dist.	729 Sep 25 j 11:39	15°♌21'16	2.53446 AU
direct	724 Aug 09 j 12:34	15°♌04'37			729 Oct 16 j 12:38	0°♌	
	724 Sep 30 j 04:35	0°♌					
	724 Nov 20 j 09:44	0°♌		conjunction	729 Oct 27 j 20:43	8°♌02'56	0°02'02
	725 Jan 05 j 01:47	0°♌		minimum elong	729 Oct 27 j 20:50	8°♌03'09	0°02'02
asc. node	725 Jan 07 j 11:26	1°♌35'50		behind sun begin	729 Oct 26 j 23:31	7°♌25'06	
	725 Feb 19 j 07:18	0°♌		behind sun end	729 Oct 28 j 18:09	8°♌41'15	
	725 Apr 06 j 06:47	0°♌		desc. node	729 Oct 31 j 02:29	10°♌22'12	
	725 May 23 j 03:30	0°♌			729 Nov 27 j 01:06	0°♌	
evening set	725 Jun 25 j 07:37	21°♌02'25		morning rise	729 Dec 20 j 02:28	17°♌14'25	
	725 Jul 09 j 10:55	0°♌			730 Jan 05 j 20:56	0°♌	
max. Earth dist.	725 Aug 04 j 01:20	16°♌16'23	2.67243 AU		730 Feb 13 j 15:55	0°♌	
					730 Mar 24 j 05:00	0°♌	
conjunction	725 Aug 10 j 10:21	20°♌20'30	1°08'16		730 May 02 j 10:21	0°♌	
minimum elong	725 Aug 10 j 10:45	20°♌21'07	1°08'16		730 Jun 12 j 10:18	0°♌	
	725 Aug 25 j 12:19	0°♌			730 Jul 26 j 19:49	0°♌	
morning rise	725 Sep 23 j 21:31	18°♌59'37		asc. node	730 Aug 30 j 08:42	20°♌39'08	
	725 Oct 10 j 17:27	0°♌			730 Sep 17 j 08:15	0°♌	
	725 Nov 24 j 19:03	0°♌		retrograde	730 Nov 14 j 17:34	16°♌48'10	
desc. node	726 Jan 07 j 16:56	0°♌		min. Earth dist.	730 Dec 21 j 19:14	8°♌04'53	0.64926 AU
	726 Jan 26 j 04:38	12°♌50'18		opposition	730 Dec 24 j 20:57	6°♌51'00	3°55'21
	726 Feb 19 j 16:20	0°♌		greatest brilliancy	730 Dec 24 j 09:39	7°♌02'20	-1.4m
	726 Apr 03 j 05:37	0°♌			731 Jan 13 j 16:02	30°♌	
	726 May 16 j 19:53	0°♌		direct	731 Feb 02 j 02:25	27°♌33'06	
	726 Jul 06 j 07:55	0°♌			731 Feb 23 j 01:26	0°♌	
retrograde	726 Aug 21 j 17:30	12°♌56'35			731 May 06 j 22:04	0°♌	
min. Earth dist.	726 Sep 17 j 18:41	7°♌59'55	0.43100 AU		731 Jun 28 j 10:48	0°♌	
opposition	726 Sep 25 j 14:44	5°♌25'21	-3°26'33		731 Aug 14 j 18:21	0°♌	
greatest brilliancy	726 Sep 24 j 17:55	5°♌42'35	-2.6m	desc. node	731 Sep 18 j 01:41	23°♌17'18	
	726 Oct 16 j 20:23	30°♌			731 Sep 27 j 15:06	0°♌	
direct	726 Oct 27 j 06:35	29°♌16'15		evening set	731 Oct 25 j 07:03	19°♌57'14	
	726 Nov 06 j 21:20	0°♌			731 Nov 07 j 20:19	0°♌	
asc. node	726 Nov 25 j 11:15	4°♌15'13		max. Earth dist.	731 Nov 14 j 01:54	4°♌40'29	2.40788 AU
	727 Jan 21 j 03:18	0°♌			731 Dec 17 j 04:27	0°♌	
	727 Mar 14 j 10:09	0°♌					
	727 May 03 j 03:51	0°♌		conjunction	731 Dec 22 j 07:02	3°♌58'05	-0°53'19
	727 Jun 20 j 20:07	0°♌		minimum elong	731 Dec 22 j 04:36	3°♌53'22	0°53'18
evening set	727 Aug 01 j 15:58	26°♌22'23			732 Jan 24 j 11:38	0°♌	
	727 Aug 07 j 07:57	0°♌		morning rise	732 Feb 27 j 12:53	26°♌47'52	

	732 Mar 02 j 15:03	0°♄		desc. node	737 May 09 j 22:13	17°♄43'37	
	732 Apr 10 j 12:05	0°♅		direct	737 May 22 j 08:16	16°♄40'32	
	732 May 20 j 23:00	0°♆			737 Jul 10 j 17:03	0°♄	
	732 Jul 02 j 19:25	0°♇			737 Aug 30 j 22:47	0°♄	
asc. node	732 Jul 17 j 08:09	9°♇41'56			737 Oct 12 j 04:50	0°♄	
	732 Aug 18 j 04:26	0°♈			737 Nov 20 j 21:42	0°♄	
	732 Oct 10 j 13:35	0°♉			737 Dec 30 j 04:37	0°♄	
retrograde	732 Dec 18 j 06:35	20°♉46'28			738 Feb 08 j 07:14	0°♅	
opposition	733 Jan 27 j 05:02	11°♉11'06	4°34'28	asc. node	738 Mar 09 j 05:05	20°♅56'52	
greatest brilliancy	733 Jan 27 j 07:06	11°♉09'03	-1.3m		738 Mar 21 j 23:35	0°♆	
min. Earth dist.	733 Jan 28 j 00:16	10°♉51'56	0.67669 AU	evening set	738 Apr 29 j 02:17	26°♆18'54	
direct	733 Mar 09 j 04:58	1°♊17'44			738 May 04 j 13:08	0°♇	
	733 Jun 02 j 16:55	0°♈			738 Jun 18 j 21:12	0°♈	
	733 Jul 23 j 20:35	0°♉					
desc. node	733 Aug 05 j 01:00	7°♉50'13		conjunction	738 Jun 19 j 12:45	0°♈25'18	0°52'59
	733 Sep 06 j 19:31	0°♊		minimum elong	738 Jun 19 j 11:21	0°♈23'02	0°52'59
	733 Oct 18 j 05:49	0°♋		max. Earth dist.	738 Jul 03 j 03:31	9°♈14'49	2.64350 AU
	733 Nov 26 j 11:35	0°♌			738 Aug 04 j 12:48	0°♉	
evening set	733 Dec 25 j 18:57	23°♌01'00		morning rise	738 Aug 05 j 22:57	0°♉54'19	
	734 Jan 03 j 15:02	0°♍			738 Sep 20 j 23:36	0°♊	
	734 Feb 10 j 16:24	0°♎			738 Nov 08 j 00:56	0°♊	
					738 Dec 27 j 06:18	0°♋	
conjunction	734 Mar 03 j 10:39	16°♎08'06	-0°52'29		739 Feb 18 j 04:43	0°♋	
minimum elong	734 Mar 03 j 13:41	16°♎13'57	0°52'28	desc. node	739 Mar 27 j 21:44	17°♋35'08	
	734 Mar 21 j 13:44	0°♌		retrograde	739 May 10 j 00:44	27°♋07'45	
max. Earth dist.	734 Apr 23 j 17:58	24°♌41'38	2.42970 AU	opposition	739 Jun 10 j 12:11	21°♋35'54	-4°18'01
	734 May 01 j 01:14	0°♍		greatest brilliancy	739 Jun 11 j 10:58	21°♋19'03	-2.7m
morning rise	734 May 08 j 17:49	5°♍32'16		min. Earth dist.	739 Jun 17 j 00:32	19°♋40'55	0.40858 AU
asc. node	734 Jun 04 j 06:08	24°♍12'43		direct	739 Jul 14 j 01:42	15°♋09'45	
	734 Jun 12 j 15:50	0°♎			739 Sep 02 j 16:24	0°♌	
	734 Jul 27 j 18:37	0°♏			739 Oct 22 j 04:27	0°♍	
	734 Sep 13 j 23:29	0°♐			739 Dec 04 j 14:56	0°♎	
	734 Nov 06 j 20:41	0°♑			740 Jan 16 j 09:18	0°♏	
retrograde	735 Jan 23 j 16:04	24°♑36'07		asc. node	740 Jan 25 j 03:21	6°♏04'58	
opposition	735 Mar 03 j 07:20	15°♑45'31	3°51'02		740 Feb 29 j 00:24	0°♐	
greatest brilliancy	735 Mar 03 j 22:31	15°♑30'46	-1.4m		740 Apr 14 j 00:10	0°♑	
min. Earth dist.	735 Mar 07 j 23:01	13°♑57'14	0.63800 AU		740 May 30 j 06:32	0°♒	
direct	735 Apr 13 j 15:01	5°♑45'40		evening set	740 Jun 10 j 05:00	7°♒00'24	
desc. node	735 Jun 22 j 23:33	27°♑58'15			740 Jul 16 j 06:42	0°♓	
	735 Jun 26 j 19:37	0°♒		max. Earth dist.	740 Jul 26 j 00:48	6°♓12'26	2.67501 AU
	735 Aug 15 j 07:32	0°♓					
	735 Sep 27 j 02:18	0°♔		conjunction	740 Jul 27 j 04:08	6°♓55'56	1°09'17
	735 Nov 05 j 20:02	0°♕		minimum elong	740 Jul 27 j 03:59	6°♓55'41	1°09'16
	735 Dec 14 j 05:57	0°♖			740 Sep 01 j 07:50	0°♕	
	736 Jan 21 j 13:41	0°♗		morning rise	740 Sep 09 j 20:47	5°♕28'23	
	736 Feb 29 j 19:01	0°♘			740 Oct 17 j 20:21	0°♒	
evening set	736 Mar 04 j 22:02	3°♘05'28			740 Dec 02 j 14:19	0°♓	
	736 Apr 10 j 15:23	0°♙			741 Jan 16 j 15:53	0°♔	
asc. node	736 Apr 21 j 05:34	7°♙33'04		desc. node	741 Feb 11 j 20:37	17°♙33'43	
					741 Mar 02 j 10:03	0°♕	
conjunction	736 May 04 j 03:39	16°♙38'05	0°08'01		741 Apr 16 j 22:47	0°♖	
minimum elong	736 May 04 j 03:10	16°♙37'13	0°08'00		741 Jun 07 j 03:38	0°♗	
behind sun begin	736 May 03 j 06:20	16°♙00'52		retrograde	741 Jul 27 j 18:37	14°♙40'09	
behind sun end	736 May 04 j 24:00	17°♙13'32		min. Earth dist.	741 Aug 23 j 11:15	10°♙13'37	0.39031 AU
	736 May 23 j 12:17	0°♚		greatest brilliancy	741 Aug 28 j 02:43	8°♙53'01	-2.8m
max. Earth dist.	736 Jun 05 j 14:34	8°♚52'45	2.55845 AU	opposition	741 Aug 29 j 01:34	8°♙36'27	-5°47'56
morning rise	736 Jun 27 j 09:28	23°♚23'37		direct	741 Sep 27 j 22:59	3°♙21'09	
	736 Jul 07 j 11:12	0°♛		asc. node	741 Dec 12 j 02:37	29°♙12'22	
	736 Aug 23 j 08:29	0°♜			741 Dec 13 j 13:43	0°♘	
	736 Oct 11 j 06:47	0°♝			742 Feb 02 j 22:14	0°♙	
	736 Dec 02 j 19:52	0°♞			742 Mar 23 j 14:42	0°♚	
	737 Feb 10 j 15:48	0°♟			742 May 10 j 21:21	0°♛	
retrograde	737 Mar 07 j 20:03	3°♟27'32			742 Jun 27 j 21:33	0°♜	
	737 Mar 31 j 09:57	30°♟		evening set	742 Jul 18 j 04:59	12°♜48'51	
opposition	737 Apr 12 j 19:48	25°♟53'01	1°16'47		742 Aug 14 j 03:40	0°♝	
greatest brilliancy	737 Apr 13 j 06:00	25°♟43'47	-2.0m	max. Earth dist.	742 Aug 18 j 09:34	2°♝43'53	2.65189 AU
min. Earth dist.	737 Apr 20 j 19:06	23°♟00'36	0.53712 AU				

conjunction	742 Sep 01 j 21:02	12° \mathbb{M} 06'08	0°58'36		747 Oct 27 j 21:08	0° \mathcal{O}	
minimum elong	742 Sep 01 j 22:05	12° \mathbb{M} 07'50	0°58'36	retrograde	747 Dec 05 j 21:52	8° \mathcal{O} 03'10	
	742 Sep 29 j 02:55	0° \mathcal{E}			748 Jan 10 j 17:32	30° $\mathcal{R}\mathcal{E}$	
morning rise	742 Oct 16 j 24:00	11° \mathcal{E} 57'13		min. Earth dist.	748 Jan 14 j 08:27	28° \mathcal{E} 33'31	0.67380 AU
	742 Nov 12 j 11:59	0° \mathbb{M}		opposition	748 Jan 15 j 01:39	28° \mathcal{E} 16'17	4°29'13
	742 Dec 25 j 07:03	0° \mathcal{Z}		greatest brilliancy	748 Jan 14 j 21:52	28° \mathcal{E} 20'05	-1.3m
desc. node	742 Dec 30 j 19:24	3° \mathcal{Z} 56'33		direct	748 Feb 24 j 13:01	18° \mathcal{E} 33'37	
	743 Feb 04 j 17:29	0° \mathcal{Z}			748 Apr 13 j 19:30	0° \mathcal{O}	
	743 Mar 17 j 06:07	0° \approx			748 Jun 12 j 23:10	0° \mathbb{M}	
	743 Apr 26 j 16:12	0° \mathcal{H}			748 Aug 01 j 01:23	0° \mathcal{E}	
	743 Jun 07 j 14:13	0° \mathcal{Y}		desc. node	748 Aug 21 j 16:19	13° \mathcal{E} 37'30	
	743 Jul 25 j 10:43	0° \mathcal{B}			748 Sep 14 j 10:50	0° \mathbb{M}	
retrograde	743 Sep 22 j 03:22	18° \mathcal{B} 57'23			748 Oct 25 j 18:04	0° \mathcal{Z}	
min. Earth dist.	743 Oct 22 j 06:58	12° \mathcal{B} 42'33	0.51042 AU	evening set	748 Nov 29 j 04:03	26° \mathcal{Z} 14'42	
opposition	743 Oct 30 j 00:15	9° \mathcal{B} 49'18	-0°00'14		748 Dec 04 j 00:04	0° \mathcal{Z}	
greatest brilliancy	742 May 05 j 22:34	26° \mathbb{I} 55'09	1.6m		749 Jan 11 j 04:19	0° \approx	
asc. node	743 Oct 30 j 02:05	9° \mathcal{B} 47'36					
direct	743 Dec 03 j 10:26	2° \mathcal{B} 19'47		conjunction	749 Feb 02 j 10:55	17° \approx 35'43	-1°04'27
	744 Feb 23 j 22:35	0° \mathbb{I}		minimum elong	749 Feb 02 j 11:50	17° \approx 37'33	1°04'26
	744 Apr 18 j 05:09	0° \mathcal{E}			749 Feb 18 j 05:42	0° \mathcal{H}	
	744 Jun 07 j 14:17	0° \mathcal{O}		max. Earth dist.	749 Mar 13 j 18:06	18° \mathcal{H} 16'40	2.38083 AU
	744 Jul 25 j 18:09	0° \mathbb{M}			749 Mar 29 j 01:46	0° \mathcal{Y}	
evening set	744 Aug 23 j 23:03	18° \mathbb{M} 52'23		morning rise	749 Apr 13 j 09:03	11° \mathcal{Y} 31'38	
	744 Sep 09 j 18:29	0° \mathcal{E}			749 May 08 j 11:27	0° \mathcal{B}	
max. Earth dist.	744 Sep 12 j 21:50	2° \mathcal{E} 06'04	2.57686 AU	asc. node	749 Jun 20 j 23:21	0° \mathbb{I} 36'58	
					749 Jun 20 j 01:44	0° \mathbb{I}	
conjunction	744 Oct 10 j 08:51	20° \mathcal{E} 47'48	0°22'20		749 Aug 04 j 10:38	0° \mathcal{E}	
minimum elong	744 Oct 10 j 09:43	20° \mathcal{E} 49'17	0°22'19		749 Sep 22 j 18:29	0° \mathcal{O}	
	744 Oct 23 j 13:53	0° \mathbb{M}			749 Nov 21 j 08:05	0° \mathbb{M}	
desc. node	744 Nov 16 j 19:25	17° \mathbb{M} 14'22		retrograde	750 Jan 08 j 23:50	11° \mathbb{M} 22'51	
morning rise	744 Nov 29 j 00:53	26° \mathbb{M} 06'36		opposition	750 Feb 17 j 06:45	2° \mathbb{M} 11'53	4°18'15
	744 Dec 04 j 08:25	0° \mathcal{Z}		greatest brilliancy	750 Feb 17 j 17:39	2° \mathbb{M} 01'10	-1.3m
	745 Jan 13 j 11:39	0° \mathcal{Z}		min. Earth dist.	750 Feb 20 j 10:49	0° \mathbb{M} 57'10	0.66092 AU
	745 Feb 21 j 14:01	0° \approx			750 Feb 22 j 21:39	30° $\mathcal{R}\mathcal{O}$	
	745 Apr 01 j 09:48	0° \mathcal{H}		direct	750 Mar 30 j 16:20	22° \mathcal{O} 10'22	
	745 May 10 j 22:23	0° \mathcal{Y}			750 May 08 j 15:50	0° \mathbb{M}	
	745 Jun 21 j 11:39	0° \mathcal{B}			750 Jul 08 j 10:49	0° \mathcal{E}	
	745 Aug 06 j 13:14	0° \mathbb{I}		desc. node	750 Jul 09 j 15:20	0° \mathcal{E} 42'14	
asc. node	745 Sep 15 j 23:58	21° \mathbb{I} 17'21			750 Aug 24 j 08:09	0° \mathbb{M}	
	745 Oct 11 j 00:15	0° \mathcal{E}			750 Oct 05 j 09:19	0° \mathcal{Z}	
retrograde	745 Oct 31 j 19:06	2° \mathcal{E} 42'09			750 Nov 13 j 20:12	0° \mathcal{Z}	
	745 Nov 20 j 11:31	30° $\mathcal{R}\mathbb{I}$			750 Dec 22 j 02:11	0° \approx	
min. Earth dist.	745 Dec 06 j 03:18	24° \mathbb{I} 33'59	0.62113 AU		751 Jan 29 j 06:16	0° \mathcal{H}	
opposition	745 Dec 10 j 16:33	22° \mathbb{I} 45'03	3°15'36	evening set	751 Feb 07 j 16:23	7° \mathcal{H} 19'38	
greatest brilliancy	745 Dec 10 j 02:43	22° \mathbb{I} 58'50	-1.6m		751 Mar 09 j 07:14	0° \mathcal{Y}	
direct	746 Jan 17 j 20:51	13° \mathbb{I} 48'59					
	746 Mar 19 j 05:23	0° \mathcal{E}		conjunction	751 Apr 13 j 01:47	25° \mathcal{Y} 45'00	-0°16'12
	746 May 16 j 17:14	0° \mathcal{O}		minimum elong	751 Apr 13 j 02:56	25° \mathcal{Y} 47'05	0°16'11
	746 Jul 06 j 07:15	0° \mathbb{M}			751 Apr 18 j 22:51	0° \mathcal{B}	
	746 Aug 22 j 01:11	0° \mathcal{E}		asc. node	751 May 08 j 21:55	14° \mathcal{B} 12'54	
desc. node	746 Oct 04 j 18:10	29° \mathcal{E} 57'48		max. Earth dist.	751 May 23 j 23:05	24° \mathcal{B} 42'23	2.51186 AU
	746 Oct 04 j 19:25	0° \mathbb{M}			751 May 31 j 15:44	0° \mathbb{I}	
evening set	746 Oct 05 j 16:06	0° \mathbb{M} 36'34		morning rise	751 Jun 10 j 12:58	6° \mathbb{I} 43'53	
max. Earth dist.	746 Oct 20 j 11:06	11° \mathbb{M} 10'56	2.45860 AU		751 Jul 15 j 13:46	0° \mathcal{E}	
	746 Nov 15 j 02:55	0° \mathcal{Z}			751 Aug 31 j 18:17	0° \mathcal{O}	
					751 Oct 20 j 20:44	0° \mathbb{M}	
conjunction	746 Nov 28 j 08:42	9° \mathcal{Z} 55'54	-0°33'19		751 Dec 16 j 23:06	0° \mathcal{E}	
minimum elong	746 Nov 28 j 06:53	9° \mathcal{Z} 52'30	0°33'18	retrograde	752 Feb 18 j 04:10	17° \mathcal{E} 28'59	
	746 Dec 24 j 14:53	0° \mathcal{Z}		opposition	752 Mar 26 j 09:43	9° \mathcal{E} 19'24	2°33'53
morning rise	747 Jan 28 j 19:43	27° \mathcal{Z} 26'52		greatest brilliancy	752 Mar 27 j 01:56	9° \mathcal{E} 04'10	-1.7m
	747 Feb 01 j 01:46	0° \approx		min. Earth dist.	752 Apr 02 j 05:52	6° \mathcal{E} 45'42	0.58326 AU
	747 Mar 11 j 07:45	0° \mathcal{H}			752 Apr 28 j 14:14	30° $\mathcal{R}\mathbb{M}$	
	747 Apr 19 j 06:12	0° \mathcal{Y}		direct	752 May 05 j 23:39	29° \mathbb{M} 38'12	
	747 May 29 j 19:08	0° \mathcal{B}			752 May 13 j 12:51	0° \mathcal{E}	
	747 Jul 11 j 22:57	0° \mathbb{I}		desc. node	752 May 26 j 14:28	2° \mathcal{E} 12'56	
asc. node	747 Aug 03 j 23:09	14° \mathbb{I} 58'52			752 Jul 27 j 08:51	0° \mathbb{M}	
	747 Aug 28 j 12:30	0° \mathcal{E}			752 Sep 11 j 00:52	0° \mathcal{Z}	

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

retrograde	762 Nov 22 j 12:25	24° ♄ 59'03		evening set	768 Mar 18 j 13:48	16° ♊ 46'47	
min. Earth dist.	762 Dec 30 j 11:35	15° ♄ 58'18	0.66067 AU		768 Apr 05 j 20:27	0° ♈	
opposition	763 Jan 01 j 17:15	15° ♄ 04'32	4°11'44	asc. node	768 Apr 11 j 12:48	4° ♈ 03'05	
greatest brilliancy	763 Jan 01 j 08:15	15° ♄ 13'33	-1.4m				
direct	763 Feb 10 j 10:53	5° ♄ 36'41		conjunction	768 May 15 j 11:48	27° ♈ 44'12	0°20'29
	763 Apr 29 j 11:41	0° ♏		minimum elong	768 May 15 j 10:44	27° ♈ 42'23	0°20'27
	763 Jun 22 j 22:14	0° ♎			768 May 18 j 19:17	0° ♊	
	763 Aug 09 j 19:26	0° ♎		max. Earth dist.	768 Jun 12 j 10:47	16° ♊ 36'07	2.58137 AU
desc. node	763 Sep 08 j 08:45	19° ♎ 52'54			768 Jul 02 j 18:21	0° ♄	
	763 Sep 22 j 20:50	0° ♎		morning rise	768 Jul 06 j 18:52	2° ♄ 37'26	
	763 Nov 03 j 03:15	0° ♎			768 Aug 18 j 12:12	0° ♏	
evening set	763 Nov 06 j 10:18	2° ♎ 27'59			768 Oct 05 j 22:32	0° ♎	
max. Earth dist.	763 Dec 07 j 03:07	25° ♎ 52'37	2.38415 AU		768 Nov 25 j 21:51	0° ♎	
	763 Dec 12 j 10:45	0° ♏			769 Jan 23 j 20:10	0° ♎	
				retrograde	769 Mar 19 j 13:46	13° ♎ 50'32	
conjunction	764 Jan 06 j 02:50	19° ♏ 17'55	-1°01'08	opposition	769 Apr 23 j 17:33	6° ♎ 38'53	0°19'38
minimum elong	764 Jan 06 j 00:59	19° ♏ 14'17	1°01'08	greatest brilliancy	769 Apr 23 j 20:31	6° ♎ 36'17	-2.1m
	764 Jan 19 j 16:40	0° ♎		desc. node	769 Apr 30 j 06:07	4° ♎ 21'11	
	764 Feb 26 j 18:51	0° ♎		min. Earth dist.	769 May 02 j 03:04	3° ♎ 42'26	0.50909 AU
morning rise	764 Mar 15 j 13:42	13° ♎ 51'18			769 May 14 j 13:52	30° ♎	
	764 Apr 05 j 14:39	0° ♊		direct	769 Jun 01 j 10:34	27° ♎ 49'46	
	764 May 15 j 23:50	0° ♈			769 Jun 19 j 17:06	0° ♎	
	764 Jun 27 j 16:16	0° ♊			769 Aug 22 j 16:30	0° ♎	
asc. node	764 Jul 07 j 14:47	6° ♊ 42'35			769 Oct 05 j 14:15	0° ♏	
	764 Aug 12 j 12:50	0° ♄			769 Nov 14 j 23:01	0° ♎	
	764 Oct 02 j 20:09	0° ♏			769 Dec 24 j 15:44	0° ♎	
retrograde	764 Dec 26 j 01:26	28° ♏ 32'44			770 Feb 03 j 01:42	0° ♊	
opposition	765 Feb 03 j 19:45	19° ♏ 05'11	4°32'02	asc. node	770 Feb 27 j 10:55	17° ♊ 35'59	
greatest brilliancy	765 Feb 04 j 01:08	18° ♏ 59'51	-1.3m		770 Mar 16 j 23:58	0° ♈	
min. Earth dist.	765 Feb 05 j 11:28	18° ♏ 25'49	0.67383 AU		770 Apr 29 j 18:15	0° ♊	
direct	765 Mar 17 j 00:54	9° ♏ 07'43		evening set	770 May 09 j 10:56	6° ♊ 29'08	
	765 May 25 j 18:35	0° ♎			770 Jun 14 j 05:16	0° ♄	
	765 Jul 18 j 02:28	0° ♎					
desc. node	765 Jul 26 j 07:05	5° ♎ 08'47		conjunction	770 Jun 28 j 13:38	9° ♄ 17'18	0°59'07
	765 Sep 01 j 15:29	0° ♎		minimum elong	770 Jun 28 j 12:26	9° ♄ 15'22	0°59'07
	765 Oct 13 j 07:01	0° ♎		max. Earth dist.	770 Jul 08 j 16:50	15° ♄ 48'34	2.65512 AU
	765 Nov 21 j 14:42	0° ♏			770 Jul 30 j 21:20	0° ♏	
	765 Dec 29 j 18:58	0° ♎		morning rise	770 Aug 14 j 02:11	9° ♏ 02'02	
evening set	766 Jan 10 j 14:18	9° ♎ 19'38			770 Sep 16 j 04:30	0° ♎	
	766 Feb 05 j 20:57	0° ♎			770 Nov 02 j 18:30	0° ♎	
	766 Mar 16 j 18:46	0° ♊			770 Dec 20 j 20:57	0° ♎	
					771 Feb 08 j 17:54	0° ♎	
conjunction	766 Mar 18 j 21:42	1° ♊ 36'23	-0°40'41	desc. node	771 Mar 18 j 04:43	20° ♎ 34'18	
minimum elong	766 Mar 19 j 00:33	1° ♊ 41'46	0°40'39		771 Apr 07 j 01:27	0° ♏	
	766 Apr 26 j 06:35	0° ♈		retrograde	771 May 27 j 11:49	12° ♏ 47'55	
max. Earth dist.	766 May 06 j 18:24	7° ♈ 32'22	2.45954 AU	opposition	771 Jun 27 j 02:17	7° ♏ 39'11	-5°39'33
morning rise	766 May 21 j 09:51	17° ♈ 54'04		greatest brilliancy	771 Jun 27 j 22:27	7° ♏ 25'14	-2.8m
asc. node	766 May 25 j 14:12	20° ♈ 49'26		min. Earth dist.	771 Jul 01 j 15:25	6° ♏ 23'56	0.38893 AU
	766 Jun 07 j 20:39	0° ♊		direct	771 Jul 28 j 20:34	1° ♏ 57'44	
	766 Jul 22 j 19:52	0° ♄			771 Oct 11 j 13:28	0° ♎	
	766 Sep 08 j 12:45	0° ♏			771 Nov 27 j 00:25	0° ♎	
	766 Oct 30 j 13:21	0° ♎			772 Jan 10 j 02:40	0° ♊	
	767 Jan 09 j 09:55	0° ♎		asc. node	772 Jan 15 j 10:24	3° ♊ 37'34	
retrograde	767 Feb 01 j 12:17	2° ♎ 56'01			772 Feb 23 j 11:45	0° ♈	
	767 Feb 23 j 00:16	30° ♎			772 Apr 08 j 22:52	0° ♊	
opposition	767 Mar 11 j 17:18	24° ♎ 18'29	3°27'58		772 May 25 j 12:08	0° ♄	
greatest brilliancy	767 Mar 12 j 09:51	24° ♎ 02'35	-1.5m	evening set	772 Jun 18 j 22:47	15° ♄ 34'17	
min. Earth dist.	767 Mar 17 j 04:48	22° ♎ 12'20	0.62097 AU		772 Jul 11 j 15:52	0° ♏	
direct	767 Apr 21 j 21:21	14° ♎ 22'34		max. Earth dist.	772 Jul 31 j 07:45	12° ♏ 30'01	2.67472 AU
desc. node	767 Jun 13 j 06:31	28° ♎ 06'16					
	767 Jun 17 j 08:38	0° ♎		conjunction	772 Aug 04 j 08:57	15° ♏ 04'49	1°09'09
	767 Aug 08 j 23:14	0° ♎		minimum elong	772 Aug 04 j 09:08	15° ♏ 05'06	1°09'09
	767 Sep 21 j 12:17	0° ♎			772 Aug 27 j 17:20	0° ♎	
	767 Oct 31 j 13:10	0° ♏		morning rise	772 Sep 17 j 21:03	13° ♎ 37'00	
	767 Dec 09 j 02:54	0° ♎			772 Oct 13 j 01:59	0° ♎	
	768 Jan 16 j 13:37	0° ♎			772 Nov 27 j 10:54	0° ♎	
	768 Feb 24 j 21:37	0° ♊			773 Jan 10 j 20:28	0° ♎	

desc. node	773 Feb 02 j 03:48	15°♂16'47		opposition	777 Dec 18 j 22:23	1°♂23'00	3°40'50
	773 Feb 23 j 12:31	0°♂		greatest brilliancy	777 Dec 18 j 09:36	1°♂35'46	-1.5m
	773 Apr 08 j 02:43	0°♂			777 Dec 22 j 10:07	30°♂II	
	773 May 23 j 17:27	0°♂		direct	778 Jan 26 j 17:30	22°♂II14'06	
	773 Jul 27 j 11:17	0°♂			778 Mar 07 j 01:53	0°♂	
retrograde	773 Aug 11 j 10:48	1°♂33'17			778 May 10 j 10:31	0°♂	
	773 Aug 26 j 04:13	30°♂♂			778 Jul 01 j 02:56	0°♂	
min. Earth dist.	773 Sep 07 j 01:04	26°♂53'59	0.41073 AU		778 Aug 17 j 05:43	0°♂	
greatest brilliancy	773 Sep 13 j 04:27	24°♂59'28	-2.7m	desc. node	778 Sep 25 j 00:29	26°♂25'08	
opposition	773 Sep 14 j 04:16	24°♂40'48	-4°30'52		778 Sep 30 j 02:36	0°♂	
direct	773 Oct 15 j 00:20	18°♂57'11		evening set	778 Oct 16 j 13:01	11°♂44'23	
	773 Nov 29 j 09:05	0°♂		max. Earth dist.	778 Nov 01 j 20:18	23°♂38'49	2.43003 AU
asc. node	773 Dec 02 j 10:18	1°♂18'31			778 Nov 10 j 09:55	0°♂	
	774 Jan 26 j 08:05	0°♂		conjunction	778 Dec 11 j 12:01	23°♂33'24	-0°45'24
	774 Mar 17 j 18:18	0°♂		minimum elong	778 Dec 11 j 09:42	23°♂28'56	0°45'24
	774 May 05 j 18:50	0°♂			778 Dec 19 j 20:29	0°♂	
	774 Jun 23 j 03:38	0°♂			779 Jan 27 j 05:31	0°♂	
evening set	774 Jul 26 j 11:57	21°♂01'10		morning rise	779 Feb 14 j 07:44	14°♂14'13	
	774 Aug 09 j 13:25	0°♂			779 Mar 06 j 09:55	0°♂	
max. Earth dist.	774 Aug 23 j 23:53	9°♂18'36	2.64003 AU		779 Apr 14 j 06:52	0°♂	
					779 May 24 j 17:13	0°♂	
conjunction	774 Sep 10 j 06:01	20°♂34'05	0°52'36		779 Jul 06 j 14:42	0°♂	
minimum elong	774 Sep 10 j 07:11	20°♂36'00	0°52'36	asc. node	779 Jul 25 j 07:25	12°♂23'12	
	774 Sep 24 j 12:34	0°♂			779 Aug 22 j 07:20	0°♂	
morning rise	774 Oct 25 j 22:08	21°♂09'55			779 Oct 16 j 12:45	0°♂	
	774 Nov 07 j 18:26	0°♂		retrograde	779 Dec 13 j 13:12	15°♂49'50	
	774 Dec 20 j 07:25	0°♂		opposition	780 Jan 22 j 15:01	6°♂08'57	4°33'40
desc. node	774 Dec 21 j 02:56	0°♂35'05		greatest brilliancy	780 Jan 22 j 14:27	6°♂09'31	-1.3m
	775 Jan 30 j 09:37	0°♂		min. Earth dist.	780 Jan 22 j 18:03	6°♂05'55	0.67670 AU
	775 Mar 11 j 12:08	0°♂			780 Feb 08 j 10:58	30°♂♂	
	775 Apr 20 j 09:26	0°♂		direct	780 Mar 03 j 10:24	26°♂19'50	
	775 May 31 j 08:43	0°♂			780 Mar 29 j 11:42	0°♂	
	775 Jul 15 j 06:02	0°♂			780 Jun 06 j 11:49	0°♂	
	775 Sep 26 j 11:57	0°♂			780 Jul 26 j 18:06	0°♂	
retrograde	775 Oct 02 j 00:42	0°♂13'06		desc. node	780 Aug 11 j 23:55	10°♂34'01	
	775 Oct 07 j 12:00	30°♂♂			780 Sep 09 j 12:27	0°♂	
asc. node	775 Oct 20 j 08:38	27°♂46'57			780 Oct 20 j 22:33	0°♂	
min. Earth dist.	775 Nov 02 j 08:40	23°♂31'18	0.53814 AU		780 Nov 29 j 05:03	0°♂	
opposition	775 Nov 09 j 13:57	20°♂45'27	0°58'03	evening set	780 Dec 13 j 21:07	11°♂28'26	
greatest brilliancy	775 Nov 09 j 07:03	20°♂52'04	-2.0m		781 Jan 06 j 08:51	0°♂	
direct	775 Dec 14 j 23:11	12°♂52'35			781 Feb 13 j 09:48	0°♂	
	776 Feb 14 j 07:54	0°♂		conjunction	781 Feb 18 j 22:35	4°♂19'39	-0°59'20
	776 Apr 12 j 02:11	0°♂		minimum elong	781 Feb 19 j 01:04	4°♂24'29	0°59'19
	776 Jun 02 j 10:51	0°♂			781 Mar 24 j 05:42	0°♂	
evening set	776 Sep 01 j 20:06	27°♂47'57		max. Earth dist.	781 Apr 10 j 04:44	12°♂46'05	2.40611 AU
	776 Sep 05 j 03:26	0°♂		morning rise	781 Apr 28 j 05:07	26°♂03'42	
max. Earth dist.	776 Sep 19 j 21:10	9°♂55'20	2.55429 AU		781 May 03 j 15:03	0°♂	
	776 Oct 18 j 22:36	0°♂		asc. node	781 Jun 11 j 05:16	27°♂17'14	
					781 Jun 15 j 03:59	0°♂	
conjunction	776 Oct 20 j 03:01	0°♂49'58	0°10'59		781 Jul 30 j 07:16	0°♂	
minimum elong	776 Oct 20 j 03:29	0°♂50'47	0°10'58		781 Sep 16 j 20:08	0°♂	
behind sun begin	776 Oct 19 j 11:49	0°♂23'16			781 Nov 11 j 08:41	0°♂	
behind sun end	776 Oct 20 j 19:08	1°♂18'20		retrograde	782 Jan 17 j 06:09	19°♂21'10	
desc. node	776 Nov 07 j 01:45	13°♂35'50		opposition	782 Feb 25 j 05:36	10°♂20'56	4°03'55
	776 Nov 29 j 14:48	0°♂		greatest brilliancy	782 Feb 25 j 19:04	10°♂07'48	-1.4m
morning rise	776 Dec 10 j 14:25	8°♂07'56		min. Earth dist.	782 Mar 01 j 05:46	8°♂47'11	0.64957 AU
	777 Jan 08 j 14:38	0°♂		direct	782 Apr 07 j 15:38	0°♂19'34	
	777 Feb 16 j 13:03	0°♂		desc. node	782 Jun 29 j 22:50	29°♂12'29	
	777 Mar 27 j 04:48	0°♂			782 Jul 01 j 08:50	0°♂	
	777 May 05 j 12:13	0°♂			782 Aug 18 j 16:16	0°♂	
	777 Jun 15 j 15:28	0°♂			782 Sep 30 j 04:09	0°♂	
	777 Jul 30 j 12:19	0°♂			782 Nov 08 j 19:28	0°♂	
asc. node	777 Sep 06 j 07:40	21°♂44'05			782 Dec 17 j 03:31	0°♂	
	777 Sep 23 j 18:57	0°♂			783 Jan 24 j 09:03	0°♂	
retrograde	777 Nov 08 j 20:48	11°♂20'50		evening set	783 Feb 22 j 19:20	22°♂40'36	
min. Earth dist.	777 Dec 15 j 04:37	2°♂52'45	0.63785 AU				

	783 Mar 04 j 11:23	0°♄		desc. node	788 Feb 19 j 19:45	19°♂25'27	
	783 Apr 14 j 04:09	0°♂			788 Mar 07 j 02:31	0°♂	
					788 Apr 24 j 02:22	0°♂	
conjunction	783 Apr 25 j 23:08	8°♂25'39 -0°02'03			788 Jun 30 j 03:59	0°♂	
minimum elong	783 Apr 25 j 23:17	8°♂25'55 0°02'03		retrograde	788 Jul 15 j 07:37	1°♂31'21	
behind sun begin	783 Apr 24 j 22:49	7°♂42'30			788 Jul 30 j 14:37	30°♂	
behind sun end	783 Apr 26 j 23:45	9°♂09'17		min. Earth dist.	788 Aug 11 j 20:22	27°♂02'29 0.37910 AU	
asc. node	783 Apr 29 j 04:15	10°♂42'14		opposition	788 Aug 15 j 12:58	26°♂01'33 -6°31'58	
	783 May 26 j 21:49	0°♂		greatest brilliancy	788 Aug 14 j 20:51	26°♂12'38 -2.9m	
max. Earth dist.	783 Jun 01 j 02:48	3°♂33'21 2.53843 AU		direct	788 Sep 14 j 01:23	21°♂01'54	
morning rise	783 Jun 20 j 23:25	16°♂55'54			788 Oct 23 j 17:23	0°♂	
	783 Jul 10 j 18:45	0°♂		asc. node	788 Dec 19 j 01:30	29°♂22'14	
	783 Aug 26 j 17:38	0°♂			788 Dec 20 j 02:58	0°♄	
	783 Oct 15 j 01:20	0°♂			789 Feb 06 j 21:42	0°♂	
	783 Dec 08 j 00:55	0°♂			789 Mar 26 j 14:10	0°♂	
retrograde	784 Feb 28 j 11:17	26°♂49'53			789 May 13 j 08:53	0°♂	
opposition	784 Apr 05 j 01:42	18°♂58'46 1°52'22			789 Jun 30 j 03:32	0°♂	
greatest brilliancy	784 Apr 05 j 15:17	18°♂46'16 -1.8m		evening set	789 Jul 12 j 01:08	7°♂30'45	
min. Earth dist.	784 Apr 12 j 14:20	16°♂12'54 0.55871 AU		max. Earth dist.	789 Aug 14 j 15:38	28°♂54'25 2.65986 AU	
direct	784 May 15 j 03:56	9°♂31'20			789 Aug 16 j 08:30	0°♂	
desc. node	784 May 16 j 21:24	9°♂32'31					
	784 Jul 18 j 04:32	0°♂		conjunction	789 Aug 26 j 17:24	6°♂40'51 1°02'05	
	784 Sep 04 j 09:47	0°♂		minimum elong	789 Aug 26 j 18:19	6°♂42'19 1°02'05	
	784 Oct 15 j 23:01	0°♂			789 Oct 01 j 09:50	0°♂	
	784 Nov 24 j 07:20	0°♂		morning rise	789 Oct 10 j 12:40	6°♂03'03	
	785 Jan 02 j 07:42	0°♂			789 Nov 15 j 00:05	0°♂	
	785 Feb 11 j 04:07	0°♄			789 Dec 28 j 02:36	0°♂	
asc. node	785 Mar 16 j 04:10	24°♄00'19		desc. node	790 Jan 06 j 18:33	6°♂51'27	
	785 Mar 24 j 14:24	0°♂			790 Feb 07 j 22:27	0°♂	
evening set	785 Apr 20 j 21:32	19°♂02'50			790 Mar 20 j 21:40	0°♂	
	785 May 06 j 22:51	0°♂			790 Apr 30 j 21:07	0°♂	
					790 Jun 12 j 18:51	0°♄	
conjunction	785 Jun 12 j 12:49	24°♂22'14 0°47'37			790 Aug 03 j 20:11	0°♂	
minimum elong	785 Jun 12 j 11:19	24°♂19'47 0°47'37		retrograde	790 Sep 14 j 03:37	10°♂27'56	
	785 Jun 21 j 03:16	0°♂		min. Earth dist.	790 Oct 13 j 08:09	4°♂36'27 0.48717 AU	
max. Earth dist.	785 Jun 29 j 05:24	5°♂15'44 2.63244 AU		opposition	790 Oct 21 j 08:52	1°♂41'03 -0°49'46	
morning rise	785 Jul 30 j 19:25	25°♂34'38		greatest brilliancy	790 Oct 21 j 03:14	1°♂46'11 -2.3m	
	785 Aug 06 j 18:00	0°♂			790 Oct 26 j 02:41	30°♂	
	785 Sep 23 j 08:04	0°♂		asc. node	790 Nov 06 j 01:14	26°♄44'26	
	785 Nov 10 j 19:37	0°♂		direct	790 Nov 24 j 00:06	24°♄32'41	
	785 Dec 31 j 03:06	0°♂			790 Dec 25 j 05:38	0°♂	
	786 Feb 25 j 18:43	0°♂			791 Feb 28 j 14:01	0°♂	
desc. node	786 Apr 03 j 20:28	13°♂41'17			791 Apr 22 j 05:08	0°♂	
retrograde	786 Apr 27 j 07:59	16°♂47'13			791 Jun 11 j 01:22	0°♂	
opposition	786 May 29 j 14:42	10°♂52'34 -3°10'38			791 Jul 29 j 01:07	0°♂	
greatest brilliancy	786 May 30 j 10:58	10°♂36'50 -2.6m		evening set	791 Aug 18 j 11:48	13°♂09'44	
min. Earth dist.	786 Jun 06 j 04:38	8°♂31'56 0.42869 AU		max. Earth dist.	791 Sep 09 j 02:02	27°♂20'56 2.59362 AU	
direct	786 Jul 03 j 13:53	3°♂48'10			791 Sep 13 j 01:38	0°♂	
	786 Sep 12 j 10:50	0°♂					
	786 Oct 27 j 19:23	0°♂		conjunction	791 Oct 04 j 07:53	14°♂20'26 0°29'56	
	786 Dec 08 j 20:59	0°♂		minimum elong	791 Oct 04 j 08:55	14°♂22'13 0°29'55	
	787 Jan 19 j 20:44	0°♄			791 Oct 26 j 23:59	0°♂	
asc. node	787 Feb 01 j 02:48	8°♄37'55		morning rise	791 Nov 21 j 19:03	18°♂17'24	
	787 Mar 03 j 22:47	0°♂		desc. node	791 Nov 24 j 18:24	20°♂25'49	
	787 Apr 17 j 13:30	0°♂			791 Dec 07 j 22:50	0°♂	
	787 Jun 02 j 13:47	0°♂			792 Jan 17 j 07:04	0°♂	
evening set	787 Jun 04 j 13:20	1°♂16'32			792 Feb 25 j 13:56	0°♂	
	787 Jul 19 j 11:10	0°♂			792 Apr 04 j 13:37	0°♂	
					792 May 14 j 06:14	0°♄	
conjunction	787 Jul 22 j 00:39	1°♂37'56 1°08'30			792 Jun 25 j 02:42	0°♂	
minimum elong	787 Jul 22 j 00:16	1°♂37'20 1°08'30			792 Aug 11 j 06:18	0°♂	
max. Earth dist.	787 Jul 23 j 05:08	2°♂23'17 2.67345 AU		asc. node	792 Sep 22 j 23:29	20°♂25'04	
morning rise	787 Sep 04 j 23:02	0°♂16'03		retrograde	792 Oct 25 j 14:36	26°♂44'19	
	787 Sep 04 j 12:59	0°♂		min. Earth dist.	792 Nov 29 j 02:48	18°♂53'38 0.60549 AU	
	787 Oct 21 j 06:04	0°♂		opposition	792 Dec 04 j 07:35	16°♂49'54 2°53'58	
	787 Dec 06 j 09:45	0°♂		greatest brilliancy	792 Dec 03 j 17:31	17°♂03'52 -1.6m	
	788 Jan 21 j 03:55	0°♂		direct	793 Jan 10 j 23:10	8°♂05'22	

	793 Mar 24 j 12:56	0°☾		conjunction	798 Apr 02 j 12:21	16°♊06'53	-0°26'57
	793 May 19 j 18:12	0°♏		minimum elong	798 Apr 02 j 14:20	16°♊10'33	0°26'56
	793 Jul 08 j 20:00	0°♍			798 Apr 21 j 12:10	0°♋	
	793 Aug 24 j 11:10	0°♌		asc. node	798 May 15 j 21:10	17°♋21'33	
evening set	793 Sep 27 j 20:46	23°♌24'24		max. Earth dist.	798 May 17 j 02:13	18°♋12'28	2.48903 AU
	793 Oct 07 j 06:30	0°♍		morning rise	798 Jun 02 j 04:15	29°♋22'05	
desc. node	793 Oct 11 j 17:22	3°♍09'01			798 Jun 03 j 02:21	0°♎	
max. Earth dist.	793 Oct 12 j 11:01	3°♍40'22	2.48141 AU		798 Jul 17 j 23:10	0°☾	
	793 Nov 17 j 16:32	0°♊			798 Sep 03 j 06:55	0°♏	
					798 Oct 24 j 00:09	0°♍	
conjunction	793 Nov 18 j 23:51	0°♊58'08	-0°23'41		798 Dec 23 j 08:29	0°♌	
minimum elong	793 Nov 18 j 22:35	0°♊55'47	0°23'40	retrograde	799 Feb 10 j 18:35	11°♌33'36	
	793 Dec 27 j 07:29	0°♋		opposition	799 Mar 20 j 12:00	3°♌10'45	2°58'50
morning rise	794 Jan 16 j 19:04	15°♋52'36		greatest brilliancy	799 Mar 21 j 04:48	2°♌54'50	-1.6m
	794 Feb 03 j 20:39	0°♌		min. Earth dist.	799 Mar 26 j 18:28	0°♌48'16	0.60133 AU
	794 Mar 14 j 04:02	0°♍			799 Mar 28 j 22:40	30°♍	
	794 Apr 22 j 03:06	0°♎		direct	799 Apr 30 j 10:16	23°♍21'31	
	794 Jun 01 j 16:31	0°♋		desc. node	799 Jun 03 j 13:47	29°♍53'34	
	794 Jul 14 j 23:40	0°♎			799 Jun 03 j 21:09	0°♌	
asc. node	794 Aug 10 j 22:17	17°♎18'13			799 Aug 02 j 00:42	0°♍	
	794 Sep 01 j 04:46	0°☾			799 Sep 15 j 16:36	0°♊	
	794 Nov 07 j 15:01	0°♏			799 Oct 26 j 03:31	0°♋	
retrograde	794 Nov 30 j 05:21	2°♏59'32			799 Dec 03 j 22:19	0°♌	
	794 Dec 21 j 09:32	30°♏			800 Jan 11 j 12:25	0°♍	
min. Earth dist.	795 Jan 08 j 01:18	23°☾42'08	0.66928 AU		800 Feb 19 j 23:27	0°♎	
opposition	795 Jan 09 j 10:36	23°☾08'49	4°23'31	evening set	800 Mar 31 j 07:46	29°♎29'18	
greatest brilliancy	795 Jan 09 j 04:23	23°☾15'02	-1.3m	asc. node	800 Apr 01 j 19:30	0°♋33'04	
direct	795 Feb 18 j 14:55	13°☾32'09			800 Apr 01 j 00:58	0°♋	
	795 Apr 20 j 19:21	0°♏			800 May 14 j 01:57	0°♎	
	795 Jun 17 j 03:42	0°♍					
	795 Aug 04 j 18:10	0°♌		conjunction	800 May 26 j 03:43	8°♎10'23	0°31'41
desc. node	795 Aug 29 j 15:40	16°♌34'01		minimum elong	800 May 26 j 02:19	8°♎08'02	0°31'39
	795 Sep 18 j 01:34	0°♍		max. Earth dist.	800 Jun 18 j 21:38	23°♎58'44	2.60182 AU
	795 Oct 29 j 09:33	0°♊			800 Jun 28 j 01:47	0°☾	
evening set	795 Nov 19 j 10:20	15°♊54'10		morning rise	800 Jul 15 j 19:19	11°☾30'53	
	795 Dec 07 j 17:03	0°♋			800 Aug 13 j 17:20	0°♏	
	796 Jan 14 j 22:15	0°♌			800 Sep 30 j 18:10	0°♍	
					800 Nov 19 j 13:54	0°♌	
conjunction	796 Jan 21 j 19:15	5°♌25'53	-1°04'52		801 Jan 12 j 21:54	0°♍	
minimum elong	796 Jan 21 j 18:47	5°♌24'58	1°04'53	retrograde	801 Apr 01 j 11:44	25°♍07'05	
max. Earth dist.	796 Jan 22 j 06:13	5°♌47'33	2.37142 AU	desc. node	801 Apr 20 j 12:00	22°♍51'16	
	796 Feb 21 j 23:39	0°♍		opposition	801 May 05 j 15:44	18°♍21'09	-0°48'12
	796 Mar 31 j 18:49	0°♎		greatest brilliancy	801 May 05 j 21:54	18°♍15'56	-2.3m
morning rise	796 Apr 01 j 03:30	0°♎16'31		min. Earth dist.	801 May 14 j 03:25	15°♍28'55	0.48001 AU
	796 May 11 j 02:51	0°♋		direct	801 Jun 12 j 06:50	10°♍02'40	
	796 Jun 22 j 16:11	0°♎			801 Aug 12 j 04:02	0°♊	
asc. node	796 Jun 27 j 22:25	3°♎34'55			801 Sep 28 j 04:50	0°♋	
	796 Aug 07 j 03:21	0°☾			801 Nov 08 j 15:07	0°♌	
	796 Sep 26 j 01:23	0°♏			801 Dec 18 j 21:45	0°♍	
	796 Nov 29 j 03:41	0°♍			802 Jan 28 j 17:31	0°♎	
retrograde	797 Jan 02 j 22:58	6°♍20'13		asc. node	802 Feb 17 j 19:15	14°♎24'27	
	797 Feb 03 j 18:33	30°♍			802 Mar 11 j 23:06	0°♋	
opposition	797 Feb 11 j 12:07	27°♏01'21	4°25'21		802 Apr 24 j 22:45	0°♎	
greatest brilliancy	797 Feb 11 j 20:38	26°♏52'57	-1.3m	evening set	802 May 19 j 06:22	16°♎06'48	
min. Earth dist.	797 Feb 14 j 00:13	26°♏02'06	0.66805 AU		802 Jun 09 j 13:11	0°☾	
direct	797 Mar 24 j 20:59	17°♏00'58					
	797 May 16 j 02:44	0°♍		conjunction	802 Jul 07 j 06:36	17°☾51'53	1°03'46
	797 Jul 12 j 00:45	0°♌		minimum elong	802 Jul 07 j 05:40	17°☾50'24	1°03'47
desc. node	797 Jul 16 j 14:32	2°♌46'59		max. Earth dist.	802 Jul 14 j 02:47	22°☾14'39	2.66396 AU
	797 Aug 27 j 08:49	0°♍			802 Jul 26 j 06:21	0°♏	
	797 Oct 08 j 06:40	0°♊		morning rise	802 Aug 22 j 02:16	17°♏04'16	
	797 Nov 16 j 16:51	0°♋			802 Sep 11 j 10:47	0°♍	
	797 Dec 24 j 22:06	0°♌			802 Oct 28 j 15:59	0°♌	
evening set	798 Jan 26 j 12:19	25°♌40'49			802 Dec 14 j 22:03	0°♍	
	798 Feb 01 j 00:45	0°♍			803 Jan 31 j 19:56	0°♊	
	798 Mar 11 j 23:31	0°♎		desc. node	803 Mar 08 j 11:50	21°♊26'39	
					803 Mar 23 j 12:08	0°♋	

	803 Jun 13 j 05:18	0°♊			808 Jul 16 j 04:20	0°♎	
retrograde	803 Jun 14 j 22:33	0°♊01'09			808 Aug 31 j 12:00	0°♏	
	803 Jun 16 j 15:41	30°♎♊		evening set	808 Sep 10 j 23:07	7°♏00'53	
opposition	803 Jul 15 j 00:50	25°♊03'13 -6°37'28		max. Earth dist.	808 Sep 27 j 06:40	18°♏08'20	2.52972 AU
greatest brilliancy	803 Jul 15 j 10:43	24°♊56'38 -2.9m			808 Oct 14 j 07:35	0°♎	
min. Earth dist.	803 Jul 16 j 19:58	24°♊34'30 0.37662 AU		desc. node	808 Oct 28 j 08:50	9°♎58'25	
direct	803 Aug 14 j 10:55	19°♊54'56					
	803 Sep 24 j 19:10	0°♊		conjunction	808 Oct 30 j 08:40	11°♎24'07 -0°01'16	
	803 Nov 17 j 23:15	0°♋		minimum elong	808 Oct 30 j 08:34	11°♎23'57 0°01'16	
	804 Jan 03 j 05:58	0°♌		behind sun begin	808 Oct 29 j 11:05	10°♎45'26	
asc. node	804 Jan 05 j 17:43	1°♌38'34		behind sun end	808 Oct 31 j 06:04	12°♎02'30	
	804 Feb 17 j 16:59	0°♍			808 Nov 24 j 21:46	0°♌	
	804 Apr 03 j 18:44	0°♎		morning rise	808 Dec 23 j 01:07	21°♌04'09	
	804 May 20 j 16:29	0°♏			809 Jan 03 j 18:28	0°♊	
evening set	804 Jun 27 j 10:58	23°♏56'13			809 Feb 11 j 13:30	0°♋	
	804 Jul 07 j 00:42	0°♎			809 Mar 22 j 01:46	0°♌	
max. Earth dist.	804 Aug 05 j 14:07	18°♎46'58 2.67185 AU			809 Apr 30 j 05:14	0°♌	
					809 Jun 10 j 01:28	0°♍	
conjunction	804 Aug 12 j 11:34	23°♎11'05 1°07'41			809 Jul 24 j 02:56	0°♎	
minimum elong	804 Aug 12 j 12:03	23°♎11'51 1°07'41		asc. node	809 Aug 27 j 15:32	20°♎58'42	
	804 Aug 23 j 03:00	0°♎			809 Sep 13 j 10:23	0°♏	
morning rise	804 Sep 25 j 22:51	21°♎52'20		retrograde	809 Nov 16 j 18:16	19°♏42'20	
	804 Oct 08 j 08:56	0°♏		min. Earth dist.	809 Dec 24 j 00:48	10°♏55'29 0.65168 AU	
	804 Nov 22 j 10:45	0°♎		opposition	809 Dec 26 j 22:20	9°♏45'52 4°00'41	
	805 Jan 05 j 07:49	0°♌		greatest brilliancy	809 Dec 26 j 11:25	9°♏56'48 -1.4m	
desc. node	805 Jan 23 j 11:38	12°♌37'52		direct	810 Feb 04 j 06:34	0°♏25'49	
	805 Feb 17 j 04:54	0°♊			810 May 03 j 13:30	0°♎	
	805 Mar 31 j 13:18	0°♋			810 Jun 25 j 18:17	0°♎	
	805 May 13 j 15:57	0°♋			810 Aug 12 j 08:42	0°♏	
	805 Jul 01 j 02:56	0°♌		desc. node	810 Sep 15 j 07:41	22°♏56'53	
retrograde	805 Aug 24 j 16:02	17°♌09'07			810 Sep 25 j 09:40	0°♎	
min. Earth dist.	805 Sep 20 j 22:31	12°♌07'22 0.43579 AU		evening set	810 Oct 28 j 00:53	23°♎32'58	
opposition	805 Sep 28 j 20:20	9°♌28'57 -3°06'13			810 Nov 05 j 17:33	0°♌	
greatest brilliancy	805 Sep 28 j 00:58	9°♌45'11 -2.5m		max. Earth dist.	810 Nov 18 j 08:37	9°♌29'04 2.40306 AU	
direct	805 Oct 30 j 15:29	3°♌14'02			810 Dec 15 j 03:09	0°♊	
asc. node	805 Nov 22 j 16:05	6°♌25'34					
	806 Jan 17 j 08:04	0°♍		conjunction	810 Dec 25 j 12:46	8°♊05'19 -0°55'29	
	806 Mar 11 j 11:48	0°♎		minimum elong	810 Dec 25 j 10:27	8°♊00'46 0°55'28	
	806 Apr 30 j 12:19	0°♏			811 Jan 22 j 10:40	0°♋	
	806 Jun 18 j 08:05	0°♎			811 Mar 01 j 13:25	0°♋	
evening set	806 Aug 03 j 19:13	29°♎16'29		morning rise	811 Mar 03 j 07:28	1°♋22'17	
	806 Aug 04 j 22:25	0°♎			811 Apr 09 j 08:53	0°♌	
max. Earth dist.	806 Aug 29 j 17:26	16°♎01'44 2.62568 AU			811 May 19 j 17:15	0°♍	
					811 Jul 01 j 09:45	0°♎	
conjunction	806 Sep 18 j 18:37	29°♎14'14 0°45'21		asc. node	811 Jul 15 j 13:49	9°♎30'34	
minimum elong	806 Sep 18 j 19:50	29°♎16'15 0°45'20			811 Aug 16 j 11:28	0°♏	
	806 Sep 19 j 22:09	0°♏			811 Oct 07 j 21:56	0°♎	
	806 Nov 03 j 01:33	0°♎		retrograde	811 Dec 21 j 06:25	23°♎35'25	
morning rise	806 Nov 04 j 04:58	0°♎47'38		opposition	812 Jan 30 j 05:03	14°♎01'37 4°34'03	
desc. node	806 Dec 11 j 10:07	27°♎07'53		greatest brilliancy	812 Jan 30 j 07:49	13°♎58'52 -1.3m	
	806 Dec 15 j 09:31	0°♌		min. Earth dist.	812 Jan 31 j 04:46	13°♎38'03 0.67638 AU	
	807 Jan 25 j 05:05	0°♊		direct	812 Mar 11 j 06:43	4°♎07'20	
	807 Mar 05 j 23:55	0°♋			812 May 30 j 06:19	0°♎	
	807 Apr 14 j 11:43	0°♋			812 Jul 21 j 04:57	0°♏	
	807 May 24 j 20:07	0°♌		desc. node	812 Aug 02 j 06:14	7°♏41'09	
	807 Jul 07 j 02:26	0°♍			812 Sep 04 j 11:16	0°♎	
	807 Aug 29 j 10:21	0°♎			812 Oct 16 j 01:36	0°♌	
asc. node	807 Oct 10 j 15:47	10°♎41'00			812 Nov 24 j 09:36	0°♊	
retrograde	807 Oct 11 j 08:58	10°♎41'13		evening set	812 Dec 29 j 07:06	27°♊24'14	
min. Earth dist.	807 Nov 12 j 20:30	3°♎33'46 0.56396 AU			813 Jan 01 j 13:56	0°♋	
opposition	807 Nov 19 j 10:18	1°♎00'16 1°47'28			813 Feb 08 j 14:59	0°♋	
greatest brilliancy	807 Nov 18 j 22:58	1°♎11'17 -1.8m					
	807 Nov 22 j 00:48	30°♎♋		conjunction	813 Mar 06 j 23:01	20°♋26'53 -0°49'55	
direct	807 Dec 25 j 16:51	22°♋46'51		minimum elong	813 Mar 07 j 02:05	20°♋32'46 0°49'53	
	808 Jan 31 j 20:46	0°♎			813 Mar 19 j 11:03	0°♌	
	808 Apr 05 j 10:56	0°♏		max. Earth dist.	813 Apr 27 j 03:20	28°♌45'20 2.43523 AU	
	808 May 28 j 03:31	0°♎			813 Apr 28 j 20:29	0°♍	

morning rise	813 May 11 j 18:06	9°♄16'52		opposition	818 Jun 14 j 00:45	25°♄49'09	-4°37'45
asc. node	813 Jun 01 j 12:57	23°♄54'52		greatest brilliancy	818 Jun 14 j 23:54	25°♄32'17	-2.7m
	813 Jun 10 j 08:21	0°♂		min. Earth dist.	818 Jun 20 j 06:39	24°♄00'35	0.40454 AU
	813 Jul 25 j 07:29	0°♄		direct	818 Jul 17 j 04:44	19°♄31'46	
	813 Sep 11 j 06:00	0°♂			818 Aug 27 j 20:00	0°♄	
	813 Nov 03 j 08:21	0°♄			818 Oct 18 j 22:16	0°♄	
retrograde	814 Jan 25 j 19:50	27°♄29'47			818 Dec 01 j 21:23	0°♄	
opposition	814 Mar 05 j 10:14	18°♄41'37	3°44'44		819 Jan 13 j 20:19	0°♄	
greatest brilliancy	814 Mar 06 j 01:40	18°♄26'41	-1.5m	asc. node	819 Jan 22 j 09:24	5°♄55'32	
min. Earth dist.	814 Mar 10 j 06:42	16°♄49'05	0.63489 AU		819 Feb 26 j 13:02	0°♄	
direct	814 Apr 15 j 18:22	8°♄42'18			819 Apr 12 j 13:13	0°♂	
desc. node	814 Jun 20 j 05:20	28°♄29'32			819 May 28 j 19:40	0°♄	
	814 Jun 23 j 04:08	0°♂		evening set	819 Jun 13 j 11:30	10°♄01'24	
	814 Aug 12 j 15:46	0°♄			819 Jul 14 j 20:07	0°♂	
	814 Sep 24 j 18:06	0°♄		max. Earth dist.	819 Jul 28 j 12:07	8°♂41'43	2.67527 AU
	814 Nov 03 j 15:16	0°♄					
	814 Dec 12 j 02:36	0°♄		conjunction	819 Jul 30 j 07:02	9°♂50'01	1°09'21
	815 Jan 19 j 10:29	0°♄		minimum elong	819 Jul 30 j 06:58	9°♂49'55	1°09'22
	815 Feb 27 j 15:03	0°♄			819 Aug 30 j 21:39	0°♄	
evening set	815 Mar 09 j 03:48	7°♄07'53		morning rise	819 Sep 12 j 22:06	8°♄20'48	
	815 Apr 09 j 09:59	0°♄			819 Oct 16 j 10:15	0°♂	
asc. node	815 Apr 19 j 12:05	7°♄12'24			819 Dec 01 j 03:18	0°♄	
					820 Jan 15 j 02:14	0°♄	
conjunction	815 May 07 j 22:06	20°♄08'41	0°11'21	desc. node	820 Feb 10 j 02:52	17°♄31'25	
minimum elong	815 May 07 j 21:27	20°♄07'33	0°11'21		820 Feb 28 j 14:55	0°♄	
behind sun begin	815 May 07 j 04:45	19°♄38'32			820 Apr 13 j 15:15	0°♄	
behind sun end	815 May 08 j 14:08	20°♄36'32			820 Jun 01 j 20:29	0°♄	
	815 May 22 j 05:01	0°♂		retrograde	820 Jul 31 j 06:29	19°♄17'29	
max. Earth dist.	815 Jun 08 j 09:26	11°♂38'58	2.56308 AU	min. Earth dist.	820 Aug 26 j 20:10	14°♄49'03	0.39369 AU
morning rise	815 Jun 30 j 18:03	26°♂30'32		opposition	820 Sep 01 j 18:27	13°♄04'50	-5°31'44
	815 Jul 06 j 01:47	0°♄		greatest brilliancy	820 Aug 31 j 19:18	13°♄21'53	-2.8m
	815 Aug 21 j 20:21	0°♂		direct	820 Oct 01 j 21:03	7°♄44'34	
	815 Oct 09 j 13:47	0°♄		asc. node	820 Dec 09 j 09:14	0°♄00'59	
	815 Nov 30 j 13:22	0°♂			820 Dec 09 j 08:29	0°♄	
retrograde	816 Feb 03 j 09:39	0°♄			821 Jan 30 j 21:19	0°♄	
	816 Mar 10 j 12:20	6°♄40'45			821 Mar 20 j 21:43	0°♂	
	816 Apr 13 j 00:44	30°♄40'45			821 May 08 j 07:39	0°♄	
opposition	816 Apr 15 j 08:26	29°♂10'25	1°02'35		821 Jun 25 j 09:55	0°♂	
greatest brilliancy	816 Apr 15 j 17:01	29°♂02'43	-2.0m	evening set	821 Jul 20 j 08:08	15°♂42'55	
min. Earth dist.	816 Apr 23 j 10:26	26°♂16'21	0.53197 AU		821 Aug 11 j 17:52	0°♄	
desc. node	816 May 07 j 05:04	22°♂06'45		max. Earth dist.	821 Aug 20 j 03:20	5°♄23'55	2.64998 AU
direct	816 May 24 j 18:41	20°♂01'24					
	816 Jul 05 j 13:11	0°♄		conjunction	821 Sep 03 j 23:45	15°♄01'28	0°57'02
	816 Aug 28 j 00:42	0°♄		minimum elong	821 Sep 04 j 00:50	15°♄03'14	0°57'02
	816 Oct 09 j 17:20	0°♄			821 Sep 26 j 18:48	0°♂	
	816 Nov 18 j 13:56	0°♄		morning rise	821 Oct 19 j 04:37	14°♄59'25	
	816 Dec 27 j 22:00	0°♄			821 Nov 10 j 05:07	0°♄	
	817 Feb 06 j 00:28	0°♄			821 Dec 23 j 00:39	0°♄	
asc. node	817 Mar 06 j 10:12	20°♄36'10		desc. node	821 Dec 28 j 02:11	3°♄37'11	
	817 Mar 19 j 15:59	0°♄			822 Feb 02 j 10:41	0°♄	
evening set	817 May 01 j 16:54	29°♄40'31			822 Mar 14 j 21:50	0°♄	
	817 May 02 j 04:28	0°♂			822 Apr 24 j 04:34	0°♄	
	817 Jun 16 j 11:30	0°♄			822 Jun 04 j 18:37	0°♄	
					822 Jul 21 j 10:37	0°♄	
conjunction	817 Jun 21 j 20:16	3°♄29'26	0°54'50	retrograde	822 Sep 24 j 14:30	22°♄30'12	
minimum elong	817 Jun 21 j 18:54	3°♄27'13	0°54'49	min. Earth dist.	822 Oct 24 j 22:57	16°♄10'52	0.51582 AU
max. Earth dist.	817 Jul 04 j 21:18	11°♄55'45	2.64613 AU	asc. node	822 Oct 27 j 08:02	15°♄17'50	
	817 Aug 02 j 02:11	0°♂		opposition	822 Nov 01 j 15:12	13°♄18'01	0°15'56
morning rise	817 Aug 08 j 01:36	3°♂48'12		greatest brilliancy	822 Nov 01 j 13:10	13°♄19'54	-2.1m
	817 Sep 18 j 11:39	0°♄		direct	822 Dec 06 j 06:56	5°♄43'46	
	817 Nov 05 j 10:05	0°♂			823 Feb 20 j 04:00	0°♂	
	817 Dec 24 j 08:09	0°♄			823 Apr 16 j 07:29	0°♄	
	818 Feb 14 j 07:45	0°♄			823 Jun 05 j 23:31	0°♂	
desc. node	818 Mar 25 j 03:37	19°♄04'05			823 Jul 24 j 07:16	0°♄	
	818 Apr 29 j 03:15	0°♄		evening set	823 Aug 27 j 04:15	21°♄52'58	
retrograde	818 May 13 j 16:55	1°♄16'14			823 Sep 08 j 10:32	0°♂	
	818 May 28 j 02:19	30°♄40'45		max. Earth dist.	823 Sep 15 j 16:39	4°♄51'20	2.57281 AU

conjunction	823 Oct 13 j 17:22	23°♄59'27	0°19'22		828 Aug 01 j 22:12	0°♄	
minimum elong	823 Oct 13 j 18:08	24°♄00'46	0°19'21		828 Sep 19 j 20:53	0°♄	
	823 Oct 22 j 08:17	0°♄			828 Nov 16 j 16:01	0°♄	
desc. node	823 Nov 15 j 00:51	16°♄49'09		retrograde	829 Jan 11 j 00:39	14°♄11'24	
morning rise	823 Dec 02 j 16:56	29°♄38'51		opposition	829 Feb 19 j 07:22	5°♄02'25	4°14'14
	823 Dec 03 j 04:29	0°♄		greatest brilliancy	829 Feb 19 j 18:47	4°♄51'14	-1.4m
	824 Jan 12 j 08:40	0°♄		min. Earth dist.	829 Feb 22 j 15:54	3°♄43'31	0.65919 AU
	824 Feb 20 j 11:06	0°♄			829 Mar 04 j 17:14	30°♄♄	
	824 Mar 30 j 05:54	0°♄		direct	829 Apr 01 j 18:06	25°♄00'41	
	824 May 08 j 16:02	0°♄			829 May 02 j 02:00	0°♄	
	824 Jun 19 j 00:05	0°♄			829 Jul 05 j 11:14	0°♄	
	824 Aug 03 j 12:17	0°♄		desc. node	829 Jul 06 j 22:14	0°♄50'57	
asc. node	824 Sep 13 j 06:46	22°♄10'10			829 Aug 21 j 21:43	0°♄	
	824 Oct 02 j 18:55	0°♄			829 Oct 03 j 04:25	0°♄	
retrograde	824 Nov 02 j 21:17	5°♄41'26			829 Nov 11 j 17:57	0°♄	
	824 Dec 01 j 20:58	30°♄♄			829 Dec 20 j 00:50	0°♄	
min. Earth dist.	824 Dec 08 j 10:17	27°♄29'17	0.62452 AU		830 Jan 27 j 04:31	0°♄	
opposition	824 Dec 12 j 19:38	25°♄44'16	3°23'29	evening set	830 Feb 11 j 03:28	11°♄37'17	
greatest brilliancy	824 Dec 12 j 05:50	25°♄58'02	-1.5m		830 Mar 07 j 04:10	0°♄	
direct	825 Jan 20 j 03:03	16°♄45'23					
	825 Mar 14 j 15:31	0°♄		conjunction	830 Apr 16 j 04:42	29°♄36'16	-0°12'33
	825 May 13 j 17:45	0°♄		minimum elong	830 Apr 16 j 05:35	29°♄37'52	0°12'32
	825 Jul 03 j 17:30	0°♄		behind sun begin	830 Apr 15 j 13:38	29°♄09'03	
	825 Aug 19 j 16:28	0°♄		behind sun end	830 Apr 16 j 21:32	0°♄06'40	
desc. node	825 Oct 01 j 23:27	29°♄34'26			830 Apr 16 j 17:51	0°♄	
	825 Oct 02 j 13:57	0°♄		asc. node	830 May 06 j 03:13	13°♄50'37	
evening set	825 Oct 08 j 05:55	4°♄00'33		max. Earth dist.	830 May 26 j 01:40	27°♄44'34	2.51706 AU
max. Earth dist.	825 Oct 23 j 01:29	14°♄38'33	2.45296 AU		830 May 29 j 08:25	0°♄	
	825 Nov 12 j 23:34	0°♄		morning rise	830 Jun 13 j 04:18	10°♄05'30	
					830 Jul 13 j 03:52	0°♄	
conjunction	825 Dec 01 j 08:35	13°♄47'50	-0°36'28		830 Aug 29 j 04:45	0°♄	
minimum elong	825 Dec 01 j 06:38	13°♄44'08	0°36'27		830 Oct 17 j 23:30	0°♄	
	825 Dec 22 j 12:45	0°♄			830 Dec 12 j 20:36	0°♄	
	826 Jan 30 j 00:00	0°♄		retrograde	831 Feb 20 j 13:58	20°♄31'55	
morning rise	826 Feb 01 j 11:24	1°♄56'36		opposition	831 Mar 29 j 17:32	12°♄25'51	2°23'03
	826 Mar 09 j 05:31	0°♄		greatest brilliancy	831 Mar 30 j 09:07	12°♄11'17	-1.7m
	826 Apr 17 j 02:36	0°♄		min. Earth dist.	831 Apr 05 j 17:37	9°♄49'06	0.57885 AU
	826 May 27 j 12:58	0°♄		direct	831 May 09 j 06:32	2°♄46'51	
	826 Jul 09 j 12:07	0°♄		desc. node	831 May 24 j 20:35	4°♄18'09	
asc. node	826 Aug 01 j 06:39	14°♄56'11			831 Jul 25 j 01:25	0°♄	
	826 Aug 25 j 15:06	0°♄			831 Sep 09 j 11:40	0°♄	
	826 Oct 22 j 14:51	0°♄			831 Oct 20 j 12:35	0°♄	
retrograde	826 Dec 07 j 20:44	10°♄50'19			831 Nov 28 j 14:32	0°♄	
opposition	827 Jan 17 j 00:55	1°♄04'43	4°30'52		832 Jan 06 j 09:32	0°♄	
greatest brilliancy	827 Jan 16 j 21:47	1°♄07'50	-1.3m		832 Feb 15 j 00:27	0°♄	
min. Earth dist.	827 Jan 16 j 12:03	1°♄17'34	0.67464 AU	asc. node	832 Mar 23 j 03:23	27°♄05'13	
	827 Jan 19 j 17:52	30°♄♄			832 Mar 27 j 05:25	0°♄	
direct	827 Feb 26 j 14:19	21°♄20'33		evening set	832 Apr 12 j 06:46	11°♄19'42	
	827 Apr 09 j 12:54	0°♄			832 May 09 j 08:56	0°♄	
	827 Jun 11 j 00:07	0°♄					
	827 Jul 30 j 13:46	0°♄		conjunction	832 Jun 05 j 06:13	18°♄02'43	0°41'27
desc. node	827 Aug 19 j 23:10	13°♄23'22		minimum elong	832 Jun 05 j 04:42	18°♄00'12	0°41'25
	827 Sep 13 j 04:39	0°♄			832 Jun 23 j 10:04	0°♄	
	827 Oct 24 j 14:55	0°♄		max. Earth dist.	832 Jun 25 j 01:44	1°♄04'47	2.61970 AU
	827 Dec 02 j 22:26	0°♄		morning rise	832 Jul 24 j 12:10	20°♄06'44	
evening set	827 Dec 03 j 10:19	0°♄23'04			832 Aug 09 j 00:01	0°♄	
	828 Jan 10 j 03:03	0°♄			832 Sep 25 j 17:47	0°♄	
					832 Nov 13 j 17:16	0°♄	
conjunction	828 Feb 07 j 04:39	22°♄10'07	-1°03'38		833 Jan 04 j 09:21	0°♄	
minimum elong	828 Feb 07 j 06:00	22°♄12'47	1°03'39		833 Mar 08 j 20:01	0°♄	
	828 Feb 17 j 03:49	0°♄		desc. node	833 Apr 10 j 19:27	7°♄11'17	
max. Earth dist.	828 Mar 21 j 00:46	25°♄29'35	2.38504 AU	retrograde	833 Apr 15 j 12:25	7°♄19'24	
	828 Mar 26 j 22:31	0°♄		opposition	833 May 18 j 15:34	1°♄01'15	-2°05'50
morning rise	828 Apr 16 j 21:50	15°♄46'45		greatest brilliancy	833 May 19 j 06:31	0°♄49'08	-2.4m
	828 May 06 j 06:09	0°♄			833 May 21 j 18:45	30°♄♄	
	828 Jun 17 j 17:36	0°♄		min. Earth dist.	833 May 26 j 20:03	28°♄22'24	0.45101 AU
asc. node	828 Jun 18 j 04:38	0°♄18'56		direct	833 Jun 23 j 21:22	23°♄20'59	

	833 Jul 26 j 09:32	0°♊		conjunction	838 Sep 27 j 12:50	8°♎10'38	0°36'51
	833 Sep 19 j 13:16	0°♊		minimum elong	838 Sep 27 j 14:00	8°♎12'35	0°36'51
	833 Nov 01 j 16:54	0°♊			838 Oct 29 j 09:17	0°♎	
	833 Dec 12 j 19:49	0°♊		morning rise	838 Nov 13 j 23:40	10°♎57'08	
	834 Jan 23 j 04:36	0°♊		desc. node	838 Dec 01 j 17:17	23°♎37'07	
asc. node	834 Feb 08 j 02:27	11°♊19'21			838 Dec 10 j 12:59	0°♊	
	834 Mar 06 j 19:42	0°♊			839 Jan 20 j 02:32	0°♊	
	834 Apr 20 j 02:03	0°♊			839 Feb 28 j 14:41	0°♊	
evening set	834 May 28 j 16:58	25°♊21'37			839 Apr 08 j 19:06	0°♊	
	834 Jun 04 j 20:53	0°♊			839 May 18 j 16:44	0°♊	
					839 Jun 29 j 23:23	0°♊	
conjunction	834 Jul 15 j 19:07	26°♊15'58	1°07'01		839 Aug 17 j 17:08	0°♊	
minimum elong	834 Jul 15 j 18:30	26°♊14'58	1°07'01	asc. node	839 Sep 30 j 23:09	18°♊06'27	
max. Earth dist.	834 Jul 19 j 11:07	28°♊36'18	2.67019 AU	retrograde	839 Oct 20 j 06:02	20°♊30'45	
	834 Jul 21 j 15:38	0°♊		min. Earth dist.	839 Nov 22 j 21:03	12°♊58'33	0.58802 AU
morning rise	834 Aug 30 j 01:35	25°♊05'44		opposition	839 Nov 28 j 16:49	10°♊40'58	2°28'46
	834 Sep 06 j 18:19	0°♊		greatest brilliancy	839 Nov 28 j 03:13	10°♊54'22	-1.7m
	834 Oct 23 j 16:34	0°♊		direct	840 Jan 04 j 18:20	2°♊09'17	
	834 Dec 09 j 06:58	0°♊			840 Mar 29 j 02:05	0°♊	
	835 Jan 24 j 21:03	0°♊			840 May 22 j 15:05	0°♊	
desc. node	835 Feb 26 j 18:56	20°♊54'40			840 Jul 11 j 06:32	0°♊	
	835 Mar 13 j 09:35	0°♊			840 Aug 26 j 19:44	0°♊	
	835 May 04 j 16:30	0°♊		evening set	840 Sep 20 j 09:28	16°♊35'32	
retrograde	835 Jul 02 j 21:09	18°♊02'15		max. Earth dist.	840 Oct 05 j 10:37	27°♊01'24	2.50367 AU
min. Earth dist.	835 Aug 01 j 00:47	13°♊16'45	0.37391 AU		840 Oct 09 j 16:25	0°♊	
opposition	835 Aug 02 j 08:50	12°♊55'21	-6°52'51	desc. node	840 Oct 18 j 16:19	6°♊21'58	
greatest brilliancy	835 Aug 02 j 03:39	12°♊58'48	-2.9m				
direct	835 Aug 31 j 23:28	8°♊00'20		conjunction	840 Nov 10 j 04:13	22°♊36'19	-0°13'59
	835 Nov 06 j 04:38	0°♊		minimum elong	840 Nov 10 j 03:30	22°♊35'00	0°13'59
	835 Dec 26 j 14:12	0°♊		behind sun begin	840 Nov 09 j 15:49	22°♊13'39	
asc. node	835 Dec 27 j 00:32	0°♊16'15		behind sun end	840 Nov 10 j 15:11	22°♊56'22	
	836 Feb 11 j 14:17	0°♊			840 Nov 20 j 05:27	0°♊	
	836 Mar 29 j 10:53	0°♊			840 Dec 29 j 23:32	0°♊	
	836 May 15 j 19:11	0°♊		morning rise	841 Jan 05 j 12:35	5°♊02'04	
	836 Jul 02 j 08:44	0°♊			841 Feb 06 j 15:27	0°♊	
evening set	836 Jul 05 j 20:32	2°♊12'23			841 Mar 17 j 00:39	0°♊	
max. Earth dist.	836 Aug 10 j 21:02	25°♊05'50	2.66624 AU		841 Apr 25 j 00:33	0°♊	
	836 Aug 18 j 12:40	0°♊			841 Jun 04 j 15:09	0°♊	
					841 Jul 18 j 02:48	0°♊	
conjunction	836 Aug 20 j 15:13	1°♊21'08	1°04'53	asc. node	841 Aug 17 j 21:18	19°♊24'58	
minimum elong	836 Aug 20 j 15:57	1°♊22'20	1°04'53		841 Sep 05 j 04:58	0°♊	
	836 Oct 03 j 16:33	0°♊		retrograde	841 Nov 24 j 12:58	27°♊52'03	
morning rise	836 Oct 04 j 05:32	0°♊21'23		min. Earth dist.	842 Jan 01 j 17:13	18°♊47'25	0.66276 AU
	836 Nov 17 j 12:16	0°♊		opposition	842 Jan 03 j 18:17	17°♊58'16	4°15'40
	836 Dec 30 j 23:15	0°♊		greatest brilliancy	842 Jan 03 j 09:51	18°♊06'43	-1.4m
desc. node	837 Jan 13 j 17:46	9°♊41'37		direct	842 Feb 12 j 14:09	8°♊28'17	
	837 Feb 11 j 05:43	0°♊			842 Apr 25 j 18:02	0°♊	
	837 Mar 24 j 18:02	0°♊			842 Jun 20 j 03:42	0°♊	
	837 May 05 j 10:55	0°♊			842 Aug 07 j 08:59	0°♊	
	837 Jun 18 j 21:13	0°♊		desc. node	842 Sep 05 j 14:45	19°♊34'22	
	837 Aug 23 j 08:31	0°♊			842 Sep 20 j 14:57	0°♊	
retrograde	837 Sep 05 j 15:11	1°♊15'41			842 Nov 01 j 00:14	0°♊	
	837 Sep 18 j 17:15	30°♊♊		evening set	842 Nov 09 j 07:32	6°♊13'24	
min. Earth dist.	837 Oct 03 j 21:31	25°♊47'35	0.46372 AU		842 Dec 10 j 09:25	0°♊	
opposition	837 Oct 12 j 01:14	22°♊55'26	-1°45'17	max. Earth dist.	842 Dec 12 j 20:49	1°♊55'19	2.38062 AU
greatest brilliancy	837 Oct 11 j 13:25	23°♊05'50	-2.4m				
direct	837 Nov 13 j 20:21	16°♊10'12		conjunction	843 Jan 09 j 12:36	23°♊34'57	-1°02'25
asc. node	837 Nov 13 j 00:15	16°♊10'29		minimum elong	843 Jan 09 j 11:02	23°♊31'52	1°02'25
	838 Jan 05 j 16:18	0°♊			843 Jan 17 j 15:57	0°♊	
	838 Mar 04 j 17:14	0°♊			843 Feb 24 j 17:44	0°♊	
	838 Apr 25 j 01:43	0°♊		morning rise	843 Mar 20 j 07:35	18°♊21'06	
	838 Jun 13 j 10:42	0°♊			843 Apr 04 j 12:06	0°♊	
	838 Jul 31 j 06:47	0°♊			843 May 14 j 18:52	0°♊	
evening set	838 Aug 12 j 03:46	7°♊37'05			843 Jun 26 j 07:36	0°♊	
max. Earth dist.	838 Sep 04 j 14:49	22°♊54'29	2.60884 AU	asc. node	843 Jul 05 j 21:01	6°♊29'06	
	838 Sep 15 j 07:53	0°♊			843 Aug 10 j 22:00	0°♊	
					843 Sep 30 j 13:41	0°♊	

	843 Dec 13 j 20:53	0°♎			849 Jan 31 j 19:14	0°♑	
retrograde	843 Dec 29 j 01:30	1°♎21'26		asc. node	849 Feb 24 j 18:13	17°♑18'17	
	844 Jan 12 j 13:31	30°♎♎			849 Mar 14 j 16:50	0°♐	
opposition	844 Feb 06 j 19:51	21°♎55'31 4°30'16			849 Apr 27 j 10:01	0°♐	
greatest brilliancy	844 Feb 07 j 01:53	21°♎49'32 -1.3m		evening set	849 May 11 j 21:34	9°♐40'38	
min. Earth dist.	844 Feb 08 j 16:06	21°♎11'44 0.67309 AU			849 Jun 11 j 20:01	0°♐	
direct	844 Mar 19 j 02:27	11°♎57'07					
	844 May 21 j 21:02	0°♎		conjunction	849 Jun 30 j 18:44	12°♐15'40 1°00'33	
	844 Jul 15 j 09:10	0°♎		minimum elong	849 Jun 30 j 17:36	12°♐13'50 1°00'32	
desc. node	844 Jul 23 j 13:30	5°♎05'05		max. Earth dist.	849 Jul 10 j 09:36	18°♐26'36 2.65701 AU	
	844 Aug 30 j 06:56	0°♎			849 Jul 28 j 11:17	0°♎	
	844 Oct 11 j 02:44	0°♎		morning rise	849 Aug 16 j 03:54	11°♎53'35	
	844 Nov 19 j 12:34	0°♎			849 Sep 13 j 17:31	0°♎	
	844 Dec 27 j 17:35	0°♎			849 Oct 31 j 05:28	0°♎	
evening set	845 Jan 14 j 03:40	13°♎45'43			849 Dec 18 j 02:44	0°♎	
	845 Feb 03 j 19:14	0°♎			850 Feb 05 j 10:12	0°♎	
	845 Mar 14 j 15:54	0°♑		desc. node	850 Mar 15 j 10:23	21°♎26'50	
					850 Apr 01 j 08:34	0°♎	
conjunction	845 Mar 22 j 07:17	5°♑46'35 -0°37'27		retrograde	850 May 31 j 15:33	17°♎21'34	
minimum elong	845 Mar 22 j 09:59	5°♑51'39 0°37'25		opposition	850 Jul 01 j 00:48	12°♎16'20 -5°55'51	
	845 Apr 24 j 01:54	0°♐		greatest brilliancy	850 Jul 01 j 19:53	12°♎03'17 -2.8m	
max. Earth dist.	845 May 09 j 05:49	10°♐53'21 2.46524 AU		min. Earth dist.	850 Jul 05 j 02:56	11°♎09'16 0.38583 AU	
asc. node	845 May 22 j 20:23	20°♐29'17		direct	850 Aug 01 j 12:49	6°♐42'41	
morning rise	845 May 24 j 06:39	21°♐29'09			850 Oct 07 j 06:04	0°♎	
	845 Jun 05 j 13:33	0°♐			850 Nov 23 j 22:46	0°♎	
	845 Jul 20 j 09:34	0°♐			851 Jan 07 j 10:17	0°♑	
	845 Sep 05 j 21:11	0°♎		asc. node	851 Jan 12 j 17:01	3°♑34'48	
	845 Oct 27 j 08:37	0°♎			851 Feb 20 j 23:04	0°♐	
	846 Jan 01 j 01:49	0°♎			851 Apr 07 j 11:36	0°♐	
retrograde	846 Feb 03 j 17:53	5°♎52'43			851 May 24 j 01:24	0°♐	
	846 Mar 06 j 15:16	30°♎♎		evening set	851 Jun 22 j 02:54	18°♐29'58	
opposition	846 Mar 13 j 21:48	27°♎17'58 3°20'00			851 Jul 10 j 05:35	0°♎	
greatest brilliancy	846 Mar 14 j 14:20	27°♎02'07 -1.5m		max. Earth dist.	851 Aug 02 j 18:07	14°♎57'07 2.67445 AU	
min. Earth dist.	846 Mar 19 j 13:42	25°♎07'59 0.61756 AU					
direct	846 Apr 24 j 02:06	17°♎22'53		conjunction	851 Aug 07 j 10:17	17°♎55'48 1°08'50	
desc. node	846 Jun 10 j 12:41	28°♎59'29		minimum elong	851 Aug 07 j 10:32	17°♎56'12 1°08'51	
	846 Jun 12 j 20:19	0°♎			851 Aug 26 j 07:39	0°♎	
	846 Aug 06 j 04:37	0°♎		morning rise	851 Sep 20 j 21:48	16°♎28'36	
	846 Sep 19 j 03:44	0°♎			851 Oct 11 j 16:48	0°♎	
	846 Oct 29 j 08:44	0°♎			851 Nov 26 j 01:31	0°♎	
	846 Dec 07 j 00:02	0°♎			852 Jan 09 j 09:37	0°♎	
	847 Jan 14 j 10:46	0°♎		desc. node	852 Jan 31 j 10:46	15°♎08'37	
	847 Feb 22 j 17:47	0°♑			852 Feb 21 j 22:12	0°♎	
evening set	847 Mar 22 j 14:36	20°♑35'48			852 Apr 05 j 05:11	0°♎	
	847 Apr 04 j 15:02	0°♐			852 May 20 j 00:49	0°♎	
asc. node	847 Apr 09 j 18:43	3°♐40'59			852 Jul 15 j 06:38	0°♑	
	847 May 17 j 11:59	0°♐		retrograde	852 Aug 14 j 14:49	6°♑01'05	
				min. Earth dist.	852 Sep 10 j 08:23	1°♑17'52 0.41499 AU	
conjunction	847 May 19 j 02:59	1°♐06'35 0°23'34			852 Sep 14 j 11:27	30°♎♎	
minimum elong	847 May 19 j 01:48	1°♐04'34 0°23'33		opposition	852 Sep 17 j 15:59	28°♎58'54 -4°10'54	
max. Earth dist.	847 Jun 15 j 04:08	19°♐18'41 2.58547 AU		greatest brilliancy	852 Sep 16 j 16:52	29°♎17'20 -2.7m	
	847 Jul 01 j 09:08	0°♐		direct	852 Oct 18 j 15:55	23°♎09'28	
morning rise	847 Jul 10 j 02:08	5°♐40'52			852 Nov 22 j 07:26	0°♑	
	847 Aug 17 j 00:42	0°♎		asc. node	852 Nov 29 j 15:06	2°♑46'20	
	847 Oct 04 j 07:09	0°♎			853 Jan 22 j 21:46	0°♐	
	847 Nov 23 j 20:52	0°♎			853 Mar 14 j 22:01	0°♐	
	848 Jan 20 j 01:15	0°♎			853 May 03 j 03:50	0°♐	
retrograde	848 Mar 22 j 13:19	17°♎16'04			853 Jun 20 j 15:30	0°♎	
opposition	848 Apr 26 j 11:46	10°♎09'09 0°02'57		evening set	853 Jul 28 j 14:30	23°♎54'32	
greatest brilliancy	849 Sep 20 j 02:46	4°♎02'26 1.8m			853 Aug 07 j 03:27	0°♎	
desc. node	848 Apr 27 j 10:59	9°♎48'52		max. Earth dist.	853 Aug 25 j 17:12	11°♎58'23 2.63762 AU	
min. Earth dist.	848 May 04 j 21:18	7°♎13'22 0.50369 AU					
direct	848 Jun 04 j 00:24	1°♎24'58		conjunction	853 Sep 12 j 08:40	23°♎30'23 0°50'42	
	848 Aug 19 j 06:55	0°♎		minimum elong	853 Sep 12 j 09:51	23°♎32'20 0°50'42	
	848 Oct 02 j 23:02	0°♎			853 Sep 22 j 04:28	0°♎	
	848 Nov 12 j 13:55	0°♎		morning rise	853 Oct 28 j 03:41	24°♎15'38	
	848 Dec 22 j 08:55	0°♎			853 Nov 05 j 11:46	0°♎	

desc. node	853 Dec 18 j 09:22	0°♊13'55		retrograde	858 Dec 15 j 13:14	18°♊38'40	
	853 Dec 18 j 01:37	0°♊		opposition	859 Jan 24 j 14:56	8°♊59'19	4°34'05
	854 Jan 28 j 03:56	0°♊		greatest brilliancy	859 Jan 24 j 15:06	8°♊59'09	-1.3m
	854 Mar 09 j 05:41	0°♊		min. Earth dist.	859 Jan 24 j 22:44	8°♊51'33	0.67685 AU
	854 Apr 18 j 00:43	0°♊			859 Feb 22 j 22:03	30°♊	
	854 May 28 j 18:31	0°♊		direct	859 Mar 06 j 11:36	29°♊09'00	
	854 Jul 12 j 00:01	0°♊			859 Mar 18 j 12:35	0°♊	
	854 Sep 10 j 21:48	0°♊			859 Jun 04 j 06:09	0°♊	
retrograde	854 Oct 04 j 10:00	3°♊36'38			859 Jul 25 j 03:51	0°♊	
asc. node	854 Oct 17 j 14:44	2°♊20'38		desc. node	859 Aug 10 j 05:48	10°♊23'00	
	854 Oct 26 j 20:28	30°♊			859 Sep 08 j 04:52	0°♊	
min. Earth dist.	854 Nov 04 j 22:27	26°♊50'16	0.54310 AU		859 Oct 19 j 18:47	0°♊	
opposition	854 Nov 12 j 01:18	24°♊06'25	1°12'16		859 Nov 28 j 03:25	0°♊	
greatest brilliancy	854 Nov 11 j 16:55	24°♊14'28	-2.0m	evening set	859 Dec 18 j 06:00	15°♊43'48	
direct	854 Dec 17 j 15:32	16°♊09'19			860 Jan 05 j 08:03	0°♊	
	855 Feb 09 j 14:51	0°♊			860 Feb 12 j 08:39	0°♊	
	855 Apr 10 j 00:09	0°♊					
	855 May 31 j 18:29	0°♊		conjunction	860 Feb 23 j 12:22	8°♊43'11	-0°57'26
	855 Jul 19 j 12:32	0°♊		minimum elong	860 Feb 23 j 15:06	8°♊48'29	0°57'26
	855 Sep 03 j 19:23	0°♊			860 Mar 22 j 03:13	0°♊	
evening set	855 Sep 05 j 01:36	0°♊50'19		max. Earth dist.	860 Apr 14 j 18:34	17°♊45'55	2.41129 AU
max. Earth dist.	855 Sep 22 j 15:34	12°♊40'56	2.54983 AU	morning rise	860 May 01 j 09:14	29°♊57'48	
	855 Oct 17 j 17:01	0°♊			860 May 01 j 10:27	0°♊	
				asc. node	860 Jun 08 j 11:55	26°♊59'37	
conjunction	855 Oct 23 j 12:47	4°♊05'58	0°07'52		860 Jun 12 j 20:33	0°♊	
minimum elong	855 Oct 23 j 13:07	4°♊06'34	0°07'51		860 Jul 27 j 19:54	0°♊	
behind sun begin	855 Oct 22 j 18:26	3°♊33'36			860 Sep 14 j 01:26	0°♊	
behind sun end	855 Oct 24 j 07:49	4°♊39'35			860 Nov 07 j 13:15	0°♊	
desc. node	855 Nov 05 j 07:45	13°♊12'02		retrograde	861 Jan 19 j 08:58	22°♊12'18	
	855 Nov 28 j 10:53	0°♊		opposition	861 Feb 27 j 07:29	13°♊14'24	3°58'35
morning rise	855 Dec 14 j 09:28	11°♊49'05		greatest brilliancy	861 Feb 27 j 21:22	13°♊00'54	-1.4m
	856 Jan 07 j 11:34	0°♊		min. Earth dist.	861 Mar 03 j 12:29	11°♊36'09	0.64695 AU
	856 Feb 15 j 10:02	0°♊		direct	861 Apr 09 j 17:49	3°♊13'02	
	856 Mar 25 j 00:58	0°♊		desc. node	861 Jun 27 j 04:22	29°♊31'45	
	856 May 03 j 06:19	0°♊			861 Jun 28 j 01:05	0°♊	
	856 Jun 13 j 05:24	0°♊			861 Aug 16 j 02:36	0°♊	
	856 Jul 27 j 16:34	0°♊			861 Sep 27 j 21:08	0°♊	
asc. node	856 Sep 03 j 14:41	22°♊15'38			861 Nov 06 j 15:36	0°♊	
	856 Sep 19 j 03:55	0°♊			861 Dec 15 j 01:03	0°♊	
retrograde	856 Nov 10 j 22:25	14°♊17'29			862 Jan 22 j 06:44	0°♊	
min. Earth dist.	856 Dec 17 j 11:04	5°♊45'18	0.64070 AU	evening set	862 Feb 26 j 03:28	26°♊49'21	
greatest brilliancy	856 Dec 20 j 11:45	4°♊32'35	-1.5m		862 Mar 02 j 08:17	0°♊	
opposition	856 Dec 21 j 00:15	4°♊20'03	3°47'10		862 Apr 11 j 23:35	0°♊	
	857 Jan 01 j 10:59	30°♊		asc. node	862 Apr 26 j 11:36	10°♊22'00	
direct	857 Jan 28 j 21:44	25°♊08'47					
	857 Feb 28 j 04:26	0°♊		conjunction	862 Apr 28 j 20:12	12°♊02'10	0°01'30
	857 May 07 j 05:45	0°♊		minimum elong	862 Apr 28 j 20:08	12°♊02'03	0°01'30
	857 Jun 28 j 11:21	0°♊		behind sun begin	862 Apr 27 j 19:52	11°♊19'10	
	857 Aug 14 j 20:24	0°♊		behind sun end	862 Apr 29 j 20:24	12°♊44'54	
desc. node	857 Sep 22 j 06:47	26°♊04'19			862 May 24 j 15:17	0°♊	
	857 Sep 27 j 21:12	0°♊		max. Earth dist.	862 Jun 02 j 22:02	6°♊20'12	2.54329 AU
evening set	857 Oct 19 j 04:00	15°♊12'40		morning rise	862 Jun 23 j 09:47	20°♊06'02	
max. Earth dist.	857 Nov 05 j 01:36	27°♊36'16	2.42479 AU		862 Jul 08 j 09:54	0°♊	
	857 Nov 08 j 07:03	0°♊			862 Aug 24 j 05:42	0°♊	
					862 Oct 12 j 07:36	0°♊	
conjunction	857 Dec 14 j 13:49	27°♊31'07	-0°48'04		862 Dec 04 j 13:25	0°♊	
minimum elong	857 Dec 14 j 11:26	27°♊26'33	0°48'01	retrograde	863 Mar 03 j 00:47	29°♊56'21	
	857 Dec 17 j 18:55	0°♊		opposition	863 Apr 08 j 11:29	22°♊09'05	1°39'50
	858 Jan 25 j 04:11	0°♊		greatest brilliancy	863 Apr 08 j 23:56	21°♊57'41	-1.9m
morning rise	858 Feb 18 j 00:28	18°♊46'18		min. Earth dist.	863 Apr 16 j 03:06	19°♊20'59	0.55377 AU
	858 Mar 04 j 07:54	0°♊		desc. node	863 May 15 j 04:01	12°♊48'42	
	858 Apr 12 j 03:14	0°♊		direct	863 May 18 j 11:27	12°♊44'16	
	858 May 22 j 10:59	0°♊			863 Jul 15 j 04:38	0°♊	
	858 Jul 04 j 04:17	0°♊			863 Sep 02 j 16:32	0°♊	
asc. node	858 Jul 22 j 13:04	12°♊14'29			863 Oct 14 j 13:50	0°♊	
	858 Aug 19 j 12:38	0°♊			863 Nov 23 j 01:09	0°♊	
	858 Oct 12 j 11:36	0°♊			864 Jan 01 j 02:25	0°♊	

	864 Feb 09 j 22:33	0°♈			868 Dec 25 j 19:29	0°♏	
asc. node	864 Mar 13 j 09:47	23°♈38'39		desc. node	869 Jan 04 j 01:18	6°♏33'35	
	864 Mar 22 j 07:54	0°♉			869 Feb 05 j 14:30	0°♐	
evening set	864 Apr 23 j 14:03	22°♉28'28			869 Mar 18 j 11:38	0°♑	
	864 May 04 j 15:09	0°♊			869 Apr 28 j 06:42	0°♒	
					869 Jun 09 j 17:25	0°♈	
conjunction	864 Jun 14 j 21:11	27°♊27'42	0°49'44		869 Jul 29 j 13:12	0°♉	
minimum elong	864 Jun 14 j 19:43	27°♊25'18	0°49'43	retrograde	869 Sep 16 j 17:50	14°♉09'52	
	864 Jun 18 j 18:21	0°♋		min. Earth dist.	869 Oct 16 j 02:27	8°♉13'53	0.49266 AU
max. Earth dist.	864 Jun 30 j 21:26	7°♋53'20	2.63543 AU	opposition	869 Oct 24 j 03:01	5°♉17'49	-0°32'03
morning rise	864 Aug 01 j 22:03	28°♋27'53		greatest brilliancy	869 Oct 23 j 23:25	5°♉21'07	-2.2m
	864 Aug 04 j 07:52	0°♌		asc. node	869 Nov 03 j 07:27	1°♉49'15	
	864 Sep 20 j 20:13	0°♍			869 Nov 10 j 02:27	30°♒♈	
	864 Nov 08 j 04:05	0°♎		direct	869 Nov 26 j 23:49	28°♈04'15	
	864 Dec 28 j 01:55	0°♏			869 Dec 14 j 20:45	0°♉	
	865 Feb 21 j 03:36	0°♏			870 Feb 25 j 03:14	0°♊	
desc. node	865 Apr 01 j 02:55	15°♏52'26			870 Apr 19 j 09:13	0°♋	
retrograde	865 Apr 30 j 17:47	20°♏41'01			870 Jun 08 j 11:03	0°♌	
opposition	865 Jun 01 j 21:35	14°♏51'33	-3°30'54		870 Jul 26 j 14:14	0°♍	
greatest brilliancy	865 Jun 02 j 19:09	14°♏35'00	-2.6m	evening set	870 Aug 20 j 16:28	16°♍08'55	
min. Earth dist.	865 Jun 09 j 07:39	12°♏35'48	0.42393 AU		870 Sep 10 j 17:25	0°♎	
direct	865 Jul 06 j 11:57	7°♏55'52		max. Earth dist.	870 Sep 10 j 22:24	0°♎08'18	2.58988 AU
	865 Sep 08 j 09:59	0°♐					
	865 Oct 24 j 21:46	0°♑		conjunction	870 Oct 06 j 14:53	17°♎28'23	0°27'09
	865 Dec 06 j 07:12	0°♒		minimum elong	870 Oct 06 j 15:52	17°♎30'03	0°27'09
	866 Jan 17 j 09:51	0°♈			870 Oct 24 j 17:56	0°♏	
asc. node	866 Jan 29 j 08:36	8°♈24'26		desc. node	870 Nov 21 j 23:53	20°♏01'20	
	866 Mar 01 j 12:45	0°♉		morning rise	870 Nov 24 j 07:56	21°♏42'16	
	866 Apr 15 j 03:28	0°♊			870 Dec 05 j 18:21	0°♏	
	866 May 31 j 03:37	0°♋			871 Jan 15 j 03:22	0°♐	
evening set	866 Jun 06 j 20:24	4°♋18'34			871 Feb 23 j 10:10	0°♑	
	866 Jul 17 j 01:03	0°♌			871 Apr 03 j 08:42	0°♒	
					871 May 12 j 22:30	0°♈	
conjunction	866 Jul 24 j 03:46	4°♌31'48	1°08'52		871 Jun 23 j 12:52	0°♉	
minimum elong	866 Jul 24 j 03:29	4°♌31'20	1°08'51		871 Aug 08 j 22:52	0°♊	
max. Earth dist.	866 Jul 24 j 17:53	4°♌54'15	2.67411 AU	asc. node	871 Sep 21 j 06:04	21°♊42'56	
	866 Sep 02 j 03:02	0°♍		retrograde	871 Oct 28 j 18:51	29°♊48'46	
morning rise	866 Sep 07 j 00:03	3°♍06'57		min. Earth dist.	871 Dec 02 j 11:43	21°♊53'32	0.60927 AU
	866 Oct 18 j 19:49	0°♎		opposition	871 Dec 07 j 12:18	19°♊53'46	3°03'06
	866 Dec 03 j 21:59	0°♏		greatest brilliancy	871 Dec 06 j 22:01	20°♊07'58	-1.6m
	867 Jan 18 j 12:30	0°♏		direct	872 Jan 14 j 06:41	11°♊06'12	
desc. node	867 Feb 17 j 02:03	19°♏28'52			872 Mar 20 j 12:04	0°♋	
	867 Mar 05 j 03:12	0°♐			872 May 16 j 20:03	0°♌	
	867 Apr 21 j 06:19	0°♑			872 Jul 06 j 06:07	0°♍	
	867 Jun 18 j 06:31	0°♒			872 Aug 22 j 01:54	0°♎	
retrograde	867 Jul 20 j 00:50	6°♒14'36		evening set	872 Sep 30 j 08:23	26°♎43'37	
min. Earth dist.	867 Aug 16 j 06:04	1°♒46'48	0.38127 AU		872 Oct 05 j 00:22	0°♏	
opposition	867 Aug 20 j 09:43	0°♒37'45	-6°21'08	desc. node	872 Oct 08 j 22:20	2°♏45'45	
greatest brilliancy	867 Aug 19 j 16:02	0°♒50'02	-2.9m	max. Earth dist.	872 Oct 14 j 20:10	6°♏57'35	2.47596 AU
	867 Aug 22 j 16:25	30°♒♑			872 Nov 15 j 12:34	0°♏	
direct	867 Sep 18 j 23:52	25°♑35'09					
	867 Oct 15 j 23:13	0°♒		conjunction	872 Nov 21 j 20:08	4°♏41'45	-0°26'59
asc. node	867 Dec 17 j 08:14	29°♒51'49		minimum elong	872 Nov 21 j 18:41	4°♏39'04	0°26'59
	867 Dec 17 j 13:53	0°♈			872 Dec 25 j 04:46	0°♐	
	868 Feb 05 j 00:58	0°♉		morning rise	873 Jan 20 j 06:07	20°♐12'42	
	868 Mar 23 j 22:54	0°♊			873 Feb 01 j 18:22	0°♑	
	868 May 10 j 20:00	0°♋		greatest brilliancy	873 Mar 04 j 04:42	23°♑51'29	1.2m
	868 Jun 27 j 16:16	0°♌			873 Mar 12 j 01:19	0°♒	
evening set	868 Jul 14 j 04:18	10°♌24'36			873 Apr 19 j 22:56	0°♈	
	868 Aug 13 j 22:48	0°♍			873 May 30 j 09:31	0°♉	
max. Earth dist.	868 Aug 16 j 06:54	1°♍29'59	2.65837 AU		873 Jul 12 j 11:24	0°♊	
				asc. node	873 Aug 08 j 05:37	17°♊20'13	
conjunction	868 Aug 28 j 19:46	9°♍34'49	1°00'46		873 Aug 29 j 03:34	0°♋	
minimum elong	868 Aug 28 j 20:43	9°♍36'22	1°00'46		873 Oct 30 j 18:28	0°♌	
	868 Sep 29 j 01:36	0°♎		retrograde	873 Dec 02 j 05:16	5°♌49'04	
morning rise	868 Oct 12 j 16:20	9°♎02'22			874 Jan 01 j 02:28	30°♒♋	
	868 Nov 12 j 16:49	0°♏		min. Earth dist.	874 Jan 10 j 05:34	26°♋28'10	0.67056 AU

opposition	874 Jan 11 j 10:16	25°☾59'26	4°26'04		879 Feb 17 j 19:26	0°♊	
greatest brilliancy	874 Jan 11 j 04:42	26°☾05'01	-1.3m		879 Mar 30 j 19:27	0°♋	
direct	874 Feb 20 j 16:09	16°☾21'02		asc. node	879 Mar 31 j 02:24	0°♌12'26	
	874 Apr 16 j 08:49	0°♍		evening set	879 Apr 04 j 05:02	3°♌08'20	
	874 Jun 14 j 06:08	0°♎			879 May 12 j 18:34	0°♏	
	874 Aug 02 j 06:29	0°♐					
desc. node	874 Aug 26 j 22:00	16°♑18'36		conjunction	879 May 29 j 16:29	11°♑26'35	0°34'26
	874 Sep 15 j 18:54	0°♒		minimum elong	879 May 29 j 15:02	11°♑24'08	0°34'26
	874 Oct 27 j 05:48	0°♓		max. Earth dist.	879 Jun 21 j 14:45	26°♑40'09	2.60534 AU
evening set	874 Nov 22 j 13:46	19°♓55'49			879 Jun 26 j 16:32	0°☾	
	874 Dec 05 j 14:49	0°♈		morning rise	879 Jul 19 j 01:11	14°☾31'21	
	875 Jan 12 j 20:26	0°♉			879 Aug 12 j 06:08	0°♊	
					879 Sep 29 j 04:08	0°♋	
conjunction	875 Jan 25 j 12:13	10°♊00'05	-1°05'02		879 Nov 17 j 17:21	0°♌	
minimum elong	875 Jan 25 j 12:12	10°♊00'04	1°05'02		880 Jan 10 j 03:40	0°♍	
max. Earth dist.	875 Feb 08 j 14:47	21°♊08'05	2.37182 AU	retrograde	880 Apr 04 j 14:33	28°♍40'10	
	875 Feb 19 j 21:21	0°♎		desc. node	880 Apr 17 j 18:13	27°♍34'19	
	875 Mar 30 j 15:13	0°♏		opposition	880 May 08 j 13:29	21°♍59'10	-1°06'37
morning rise	875 Apr 05 j 20:57	4°♏44'23		greatest brilliancy	880 May 08 j 21:52	21°♍52'07	-2.3m
	875 May 09 j 21:11	0°♐		min. Earth dist.	880 May 16 j 23:49	19°♍09'10	0.47447 AU
	875 Jun 21 j 07:31	0°♑		direct	880 Jun 14 j 21:49	13°♍47'12	
asc. node	875 Jun 26 j 03:52	3°♑18'50			880 Aug 07 j 18:10	0°♒	
	875 Aug 05 j 13:49	0°☾			880 Sep 25 j 07:05	0°♈	
	875 Sep 24 j 00:43	0°♊			880 Nov 06 j 02:31	0°♉	
	875 Nov 24 j 04:46	0°♋			880 Dec 16 j 12:35	0°♌	
retrograde	876 Jan 05 j 23:45	9°♋08'48			881 Jan 26 j 09:30	0°♍	
opposition	876 Feb 14 j 12:22	29°♋51'55	4°22'13	asc. node	881 Feb 15 j 01:35	14°♍07'10	
	876 Feb 14 j 04:09	30°♋♏			881 Mar 09 j 15:01	0°♎	
greatest brilliancy	876 Feb 14 j 21:32	29°♋42'53	-1.3m		881 Apr 22 j 14:02	0°♏	
min. Earth dist.	876 Feb 17 j 05:04	28°♋48'12	0.66672 AU	evening set	881 May 21 j 15:43	19°♏14'33	
direct	876 Mar 26 j 21:59	19°♋50'55			881 Jun 07 j 03:43	0°☾	
	876 May 11 j 04:19	0°♎					
	876 Jul 09 j 03:46	0°♑		conjunction	881 Jul 09 j 11:27	20°☾49'12	1°04'49
desc. node	876 Jul 13 j 21:15	2°♑50'13		minimum elong	881 Jul 09 j 10:36	20°☾47'51	1°04'48
	876 Aug 24 j 22:58	0°♒		max. Earth dist.	881 Jul 15 j 19:39	24°☾52'32	2.66531 AU
	876 Oct 06 j 01:54	0°♓			881 Jul 23 j 20:17	0°♊	
	876 Nov 14 j 14:32	0°♈		morning rise	881 Aug 24 j 04:17	19°♊56'33	
	876 Dec 22 j 20:34	0°♉			881 Sep 09 j 00:07	0°♋	
greatest brilliancy	877 Jan 24 j 22:25	26°♉04'16	1.2m		881 Oct 26 j 04:01	0°♌	
	877 Jan 29 j 22:47	0°♋			881 Dec 12 j 06:52	0°♍	
evening set	877 Jan 30 j 01:47	0°♋05'51			882 Jan 28 j 20:59	0°♎	
	877 Mar 09 j 20:10	0°♏		desc. node	882 Mar 05 j 17:50	21°♎52'57	
					882 Mar 19 j 15:05	0°♈	
conjunction	877 Apr 05 j 19:12	20°♏09'04	-0°23'20		882 May 21 j 16:41	0°♉	
minimum elong	877 Apr 05 j 20:55	20°♏12'14	0°23'18	retrograde	882 Jun 18 j 19:40	4°♉40'20	
	877 Apr 19 j 06:49	0°♐			882 Jul 17 j 21:27	30°♐♓	
asc. node	877 May 13 j 02:19	17°♐00'08		opposition	882 Jul 18 j 23:57	29°♐42'23	-6°45'00
max. Earth dist.	877 May 19 j 09:06	21°♐24'27	2.49448 AU	greatest brilliancy	882 Jul 19 j 07:13	29°♐37'33	-2.9m
	877 May 31 j 18:39	0°♑		min. Earth dist.	882 Jul 20 j 04:32	29°♐23'22	0.37526 AU
morning rise	877 Jun 04 j 22:24	2°♑51'08		direct	882 Aug 18 j 05:10	24°♐38'13	
	877 Jul 15 j 12:41	0°☾			882 Sep 16 j 12:35	0°♊	
	877 Aug 31 j 16:19	0°♊			882 Nov 14 j 09:40	0°♋	
	877 Oct 21 j 00:14	0°♋			882 Dec 31 j 09:14	0°♌	
	877 Dec 18 j 12:08	0°♌		asc. node	883 Jan 02 j 23:35	1°♌42'02	
retrograde	878 Feb 13 j 03:24	14°♌33'49			883 Feb 15 j 02:08	0°♍	
opposition	878 Mar 22 j 18:30	6°♌14'16	2°49'14		883 Apr 02 j 06:16	0°♎	
greatest brilliancy	878 Mar 23 j 10:58	5°♌58'41	-1.6m		883 May 19 j 05:07	0°☾	
min. Earth dist.	878 Mar 29 j 04:46	3°♌48'31	0.59727 AU	evening set	883 Jun 30 j 14:50	26°☾51'08	
	878 Apr 09 j 08:33	30°♌♎			883 Jul 05 j 14:09	0°♊	
direct	878 May 02 j 15:35	26°♎26'31		max. Earth dist.	883 Aug 08 j 00:44	21°♊14'41	2.67094 AU
	878 May 27 j 03:58	0°♑					
desc. node	878 May 31 j 19:26	1°♑21'19		conjunction	883 Aug 15 j 13:47	26°♊03'50	1°07'00
	878 Jul 29 j 23:31	0°♒		minimum elong	883 Aug 15 j 14:20	26°♊04'43	1°06'59
	878 Sep 13 j 05:23	0°♓			883 Aug 21 j 17:18	0°♋	
	878 Oct 23 j 21:37	0°♈		morning rise	883 Sep 29 j 01:25	24°♋48'08	
	878 Dec 01 j 18:34	0°♉			883 Oct 06 j 23:52	0°♌	
	879 Jan 09 j 09:08	0°♋			883 Nov 21 j 01:45	0°♍	

	884 Jan 03 j 21:58	0°♊		greatest brilliancy	888 Dec 28 j 13:12	12°♏51'33	-1.4m
desc. node	884 Jan 21 j 16:49	12°♊23'22		direct	889 Feb 06 j 09:43	3°♏18'47	
	884 Feb 15 j 17:03	0°♋			889 Apr 30 j 02:10	0°♏	
	884 Mar 28 j 21:25	0°♌			889 Jun 23 j 01:01	0°♎	
	884 May 10 j 14:44	0°♍			889 Aug 09 j 22:37	0°♎	
	884 Jun 26 j 14:27	0°♎		desc. node	889 Sep 12 j 14:01	22°♎37'53	
retrograde	884 Aug 27 j 12:00	21°♎13'58			889 Sep 23 j 03:50	0°♎	
min. Earth dist.	884 Sep 23 j 22:47	16°♎08'13	0.44085 AU	evening set	889 Oct 30 j 18:39	27°♎09'35	
opposition	884 Oct 01 j 23:21	13°♎25'53	-2°46'14		889 Nov 03 j 14:28	0°♏	
greatest brilliancy	884 Oct 01 j 05:37	13°♎40'52	-2.5m	max. Earth dist.	889 Nov 22 j 17:29	14°♏23'15	2.39854 AU
direct	884 Nov 02 j 22:00	7°♎05'23			889 Dec 13 j 01:41	0°♋	
asc. node	884 Nov 19 j 23:05	8°♎52'48					
	885 Jan 13 j 08:31	0°♌		conjunction	889 Dec 28 j 18:21	12°♋12'55	-0°57'27
	885 Mar 08 j 12:43	0°♍		minimum elong	889 Dec 28 j 16:07	12°♋08'33	0°57'26
	885 Apr 27 j 20:26	0°♎			890 Jan 20 j 09:43	0°♌	
	885 Jun 15 j 19:45	0°♏			890 Feb 27 j 11:57	0°♍	
	885 Aug 02 j 12:38	0°♎		morning rise	890 Mar 07 j 01:18	5°♍54'40	
evening set	885 Aug 05 j 21:32	2°♎09'21			890 Apr 07 j 05:53	0°♎	
max. Earth dist.	885 Aug 31 j 10:24	18°♎40'58	2.62265 AU		890 May 17 j 11:39	0°♌	
	885 Sep 17 j 14:27	0°♎			890 Jun 29 j 00:11	0°♍	
				asc. node	890 Jul 12 j 19:51	9°♍19'26	
conjunction	885 Sep 20 j 22:24	2°♎13'00	0°43'07		890 Aug 13 j 18:57	0°♎	
minimum elong	885 Sep 20 j 23:36	2°♎15'00	0°43'07		890 Oct 04 j 09:43	0°♏	
	885 Oct 31 j 19:22	0°♎		retrograde	890 Dec 23 j 06:53	26°♏24'24	
morning rise	885 Nov 06 j 13:11	3°♎59'39		opposition	891 Feb 01 j 04:58	16°♏52'09	4°33'11
desc. node	885 Dec 08 j 16:03	26°♎45'10		greatest brilliancy	891 Feb 01 j 08:27	16°♏48'41	-1.3m
	885 Dec 13 j 04:07	0°♏		min. Earth dist.	891 Feb 02 j 09:10	16°♏24'08	0.67610 AU
	886 Jan 22 j 23:43	0°♋		direct	891 Mar 14 j 07:34	6°♏56'44	
	886 Mar 03 j 17:47	0°♌			891 May 27 j 16:37	0°♎	
	886 Apr 12 j 03:47	0°♍			891 Jul 19 j 12:50	0°♎	
	886 May 22 j 08:15	0°♎		desc. node	891 Jul 31 j 12:50	7°♎34'57	
	886 Jul 04 j 04:40	0°♌			891 Sep 03 j 02:52	0°♎	
	886 Aug 24 j 12:52	0°♍			891 Oct 14 j 21:10	0°♏	
asc. node	886 Oct 07 j 22:32	13°♍41'54			891 Nov 23 j 07:16	0°♋	
retrograde	886 Oct 13 j 15:56	13°♍55'28			891 Dec 31 j 12:21	0°♌	
min. Earth dist.	886 Nov 15 j 08:42	6°♍42'43	0.56891 AU	evening set	892 Jan 02 j 18:40	1°♌47'21	
opposition	886 Nov 21 j 18:30	4°♍12'43	1°59'36		892 Feb 07 j 13:09	0°♍	
greatest brilliancy	886 Nov 21 j 06:18	4°♍24'39	-1.8m				
	886 Dec 03 j 08:53	30°♌♌		conjunction	892 Mar 10 j 10:55	24°♍44'53	-0°47'08
direct	886 Dec 28 j 04:46	25°♌55'22		minimum elong	892 Mar 10 j 14:01	24°♍50'48	0°47'06
	887 Jan 24 j 06:51	0°♍			892 Mar 17 j 08:06	0°♎	
	887 Apr 03 j 04:17	0°♎			892 Apr 26 j 15:37	0°♌	
	887 May 26 j 10:03	0°♏		max. Earth dist.	892 Apr 29 j 23:11	2°♌24'16	2.44090 AU
	887 Jul 14 j 16:39	0°♎		morning rise	892 May 14 j 18:02	13°♌00'29	
	887 Aug 30 j 04:09	0°♎		asc. node	892 May 29 j 19:48	23°♌36'57	
evening set	887 Sep 14 j 04:55	10°♎04'36			892 Jun 08 j 00:55	0°♍	
max. Earth dist.	887 Sep 30 j 04:31	21°♎00'23	2.52507 AU		892 Jul 22 j 20:29	0°♎	
	887 Oct 13 j 02:34	0°♎			892 Sep 08 j 12:59	0°♏	
desc. node	887 Oct 26 j 15:13	9°♎34'37			892 Oct 30 j 22:48	0°♎	
					893 Jan 19 j 20:03	0°♎	
conjunction	887 Nov 02 j 20:12	14°♎44'35	-0°04'30	retrograde	893 Jan 28 j 00:10	0°♎23'48	
minimum elong	887 Nov 02 j 20:00	14°♎44'13	0°04'30		893 Feb 04 j 23:33	30°♌♎	
behind sun begin	887 Nov 01 j 22:52	14°♎06'14		opposition	893 Mar 07 j 13:04	21°♎38'09	3°37'51
behind sun end	887 Nov 03 j 17:08	15°♎22'15		greatest brilliancy	893 Mar 08 j 04:43	21°♎23'03	-1.5m
	887 Nov 23 j 18:40	0°♏		min. Earth dist.	893 Mar 12 j 13:41	19°♎41'46	0.63198 AU
morning rise	887 Dec 27 j 00:20	24°♏54'54		direct	893 Apr 17 j 21:06	11°♎39'05	
	888 Jan 02 j 16:19	0°♋		desc. node	893 Jun 17 j 11:39	29°♎05'56	
	888 Feb 10 j 11:16	0°♌			893 Jun 19 j 07:43	0°♎	
	888 Mar 19 j 22:29	0°♍			893 Aug 09 j 23:39	0°♎	
	888 Apr 27 j 23:46	0°♎			893 Sep 22 j 10:23	0°♏	
	888 Jun 07 j 16:08	0°♌			893 Nov 01 j 11:10	0°♋	
	888 Jul 21 j 09:59	0°♍			893 Dec 09 j 23:50	0°♌	
asc. node	888 Aug 24 j 20:25	21°♍13'54			894 Jan 17 j 07:39	0°♍	
	888 Sep 09 j 16:59	0°♎			894 Feb 25 j 11:15	0°♎	
retrograde	888 Nov 18 j 19:46	22°♎37'06		evening set	894 Mar 12 j 07:31	11°♎05'36	
min. Earth dist.	888 Dec 26 j 06:44	13°♎46'09	0.65424 AU		894 Apr 07 j 04:35	0°♌	
opposition	888 Dec 28 j 23:40	12°♎41'04	4°05'37	asc. node	894 Apr 16 j 18:21	6°♌51'14	

conjunction	894 May 10 j 15:53	23°♄37'50	0°14'40	desc. node	899 Feb 07 j 09:50	17°♂27'19	
minimum elong	894 May 10 j 15:03	23°♄36'24	0°14'39		899 Feb 25 j 21:49	0°♂	
behind sun begin	894 May 10 j 06:08	23°♄20'58			899 Apr 11 j 11:11	0°♁	
behind sun end	894 May 10 j 23:58	23°♄51'49			899 May 29 j 04:10	0°♂	
	894 May 19 j 21:44	0°♂		retrograde	899 Aug 04 j 15:36	23°♂56'32	
max. Earth dist.	894 Jun 10 j 02:45	14°♂22'36	2.56751 AU	min. Earth dist.	899 Aug 31 j 06:11	19°♂25'43	0.39712 AU
morning rise	894 Jul 03 j 02:49	29°♂37'43		greatest brilliancy	899 Sep 05 j 12:03	17°♂51'56	-2.8m
	894 Jul 03 j 16:25	0°♄		opposition	899 Sep 06 j 11:31	17°♂34'19	-5°14'04
	894 Aug 19 j 08:23	0°♂		direct	899 Oct 06 j 18:28	12°♂08'54	
	894 Oct 06 j 21:08	0°♄			899 Dec 05 j 15:52	0°♄	
	894 Nov 27 j 08:29	0°♂		asc. node	899 Dec 07 j 14:31	0°♄57'37	
	895 Jan 27 j 23:17	0°♂			900 Jan 28 j 18:04	0°♂	
retrograde	895 Mar 14 j 07:31	9°♂58'14			900 Mar 18 j 04:09	0°♂	
opposition	895 Apr 18 j 22:41	2°♂32'09	0°47'43		900 May 05 j 18:05	0°♄	
greatest brilliancy	895 Apr 19 j 05:24	2°♂26'09	-2.0m		900 Jun 22 j 22:40	0°♂	
	895 Apr 26 j 00:16	30°♄		evening set	900 Jul 22 j 10:25	18°♂34'46	
min. Earth dist.	895 Apr 27 j 01:29	29°♂37'49	0.52682 AU		900 Aug 09 j 08:29	0°♄	
desc. node	895 May 05 j 10:10	26°♂55'20		max. Earth dist.	900 Aug 21 j 18:15	7°♄58'36	2.64802 AU
direct	895 May 28 j 04:48	23°♂27'01					
	895 Jun 30 j 06:14	0°♂		conjunction	900 Sep 06 j 01:51	17°♄55'09	0°55'22
	895 Aug 25 j 23:53	0°♂		minimum elong	900 Sep 06 j 02:58	17°♄56'59	0°55'21
	895 Oct 08 j 05:24	0°♂			900 Sep 24 j 11:04	0°♂	
	895 Nov 17 j 06:40	0°♁		morning rise	900 Oct 21 j 08:53	18°♂00'38	
	895 Dec 26 j 16:19	0°♂			900 Nov 07 j 22:41	0°♂	
	896 Feb 04 j 18:47	0°♄			900 Dec 20 j 18:52	0°♂	
asc. node	896 Mar 03 j 17:22	20°♄17'16		desc. node	900 Dec 25 j 08:27	3°♂15'46	
	896 Mar 17 j 09:21	0°♂			901 Jan 31 j 04:45	0°♂	
	896 Apr 29 j 20:31	0°♂			901 Mar 12 j 14:42	0°♁	
evening set	896 May 04 j 05:09	2°♂56'20			901 Apr 21 j 18:29	0°♂	
	896 Jun 14 j 02:19	0°♄			901 Jun 02 j 01:25	0°♄	
					901 Jul 17 j 17:59	0°♂	
conjunction	896 Jun 24 j 02:11	6°♄29'56	0°56'32	retrograde	901 Sep 27 j 02:26	26°♂00'57	
minimum elong	896 Jun 24 j 00:52	6°♄27'49	0°56'31	asc. node	901 Oct 24 j 13:50	20°♂42'45	
max. Earth dist.	896 Jul 06 j 13:05	14°♄32'41	2.64839 AU	min. Earth dist.	901 Oct 27 j 15:04	19°♂36'44	0.52097 AU
	896 Jul 30 j 16:00	0°♂		opposition	901 Nov 04 j 05:19	16°♂45'07	0°31'44
morning rise	896 Aug 10 j 03:19	6°♂40'02		greatest brilliancy	901 Nov 04 j 01:20	16°♂48'53	-2.1m
	896 Sep 16 j 00:12	0°♄		direct	901 Dec 09 j 02:07	9°♂06'08	
	896 Nov 02 j 19:56	0°♂			902 Feb 16 j 03:55	0°♂	
	896 Dec 21 j 11:14	0°♂			902 Apr 13 j 08:42	0°♄	
	897 Feb 10 j 14:59	0°♂			902 Jun 03 j 08:33	0°♂	
desc. node	897 Mar 22 j 09:22	20°♂24'03			902 Jul 21 j 20:33	0°♄	
	897 Apr 15 j 18:52	0°♂		evening set	902 Aug 29 j 09:02	24°♄52'29	
retrograde	897 May 17 j 16:19	5°♂34'37			902 Sep 06 j 02:49	0°♂	
opposition	897 Jun 17 j 17:48	0°♂12'45	-4°57'21	max. Earth dist.	902 Sep 17 j 12:43	7°♂38'13	2.56861 AU
	897 Jun 18 j 11:35	30°♄					
greatest brilliancy	897 Jun 18 j 17:11	29°♂55'59	-2.7m	conjunction	902 Oct 16 j 01:24	27°♂10'07	0°16'24
min. Earth dist.	897 Jun 23 j 16:05	28°♂31'06	0.40038 AU	minimum elong	902 Oct 16 j 02:03	27°♂11'17	0°16'24
direct	897 Jul 20 j 14:25	24°♂04'42			902 Oct 20 j 02:49	0°♂	
	897 Aug 20 j 02:12	0°♂		desc. node	902 Nov 12 j 06:44	16°♂24'44	
	897 Oct 15 j 10:34	0°♁			902 Dec 01 j 00:32	0°♂	
	897 Nov 29 j 02:01	0°♂		morning rise	902 Dec 05 j 08:27	3°♂10'39	
	898 Jan 11 j 06:59	0°♄			903 Jan 10 j 05:32	0°♂	
asc. node	898 Jan 19 j 16:29	5°♄48'11			903 Feb 18 j 08:02	0°♁	
	898 Feb 24 j 02:05	0°♂			903 Mar 29 j 01:59	0°♂	
	898 Apr 10 j 03:00	0°♂			903 May 07 j 09:56	0°♄	
	898 May 26 j 09:36	0°♄			903 Jun 17 j 13:15	0°♂	
evening set	898 Jun 15 j 15:50	12°♄57'26			903 Aug 01 j 13:32	0°♂	
	898 Jul 12 j 10:18	0°♂		asc. node	903 Sep 11 j 13:57	22°♂56'45	
max. Earth dist.	898 Jul 29 j 23:28	11°♂09'48	2.67535 AU		903 Sep 27 j 14:42	0°♄	
				retrograde	903 Nov 06 j 00:29	8°♄40'54	
conjunction	898 Aug 01 j 08:26	12°♂40'25	1°09'19	min. Earth dist.	903 Dec 11 j 17:49	0°♄24'23	0.62772 AU
minimum elong	898 Aug 01 j 08:28	12°♂40'29	1°09'19		903 Dec 12 j 18:18	30°♄	
	898 Aug 28 j 12:14	0°♄		opposition	903 Dec 15 j 22:37	28°♂43'39	3°31'00
morning rise	898 Sep 14 j 22:24	11°♄10'33		greatest brilliancy	903 Dec 15 j 08:54	28°♂57'23	-1.5m
	898 Oct 14 j 01:02	0°♂		direct	904 Jan 23 j 08:03	19°♂42'19	
	898 Nov 28 j 17:26	0°♂			904 Mar 09 j 12:56	0°♄	
	899 Jan 12 j 14:04	0°♂			904 May 10 j 16:13	0°♂	

	904 Jul 01 j 02:54	0°♎		minimum elong	909 Apr 19 j 05:25	3°♌22'55	0°08'59
	904 Aug 17 j 07:26	0°♊		behind sun begin	909 Apr 18 j 08:12	2°♌44'45	
desc. node	904 Sep 29 j 05:44	29°♊12'51		behind sun end	909 Apr 20 j 02:37	4°♌01'02	
	904 Sep 30 j 08:35	0°♎		asc. node	909 May 03 j 10:56	13°♌32'11	
evening set	904 Oct 10 j 18:28	7°♎22'20			909 May 27 j 01:20	0°♐	
max. Earth dist.	904 Oct 25 j 19:48	18°♎13'10	2.44764 AU	max. Earth dist.	909 May 28 j 00:44	0°♐40'14	2.52212 AU
	904 Nov 10 j 20:33	0°♌		morning rise	909 Jun 15 j 16:38	13°♐21'34	
					909 Jul 10 j 18:11	0°♑	
conjunction	904 Dec 04 j 06:51	17°♌36'35	-0°39'26		909 Aug 26 j 15:32	0°♌	
minimum elong	904 Dec 04 j 04:47	17°♌32'39	0°39'25		909 Oct 15 j 03:16	0°♎	
	904 Dec 20 j 10:59	0°♌			909 Dec 08 j 23:51	0°♊	
	905 Jan 27 j 22:28	0°♐		retrograde	910 Feb 23 j 02:06	23°♊36'04	
morning rise	905 Feb 05 j 01:19	6°♐22'54		opposition	910 Apr 01 j 01:46	15°♊33'35	2°11'49
	905 Mar 07 j 03:17	0°♎		greatest brilliancy	910 Apr 01 j 16:37	15°♊19'45	-1.8m
	905 Apr 14 j 22:48	0°♐		min. Earth dist.	910 Apr 08 j 04:55	12°♊54'17	0.57412 AU
	905 May 25 j 06:29	0°♌		direct	910 May 11 j 12:17	5°♊56'36	
	905 Jul 07 j 01:06	0°♐		desc. node	910 May 22 j 02:34	6°♊40'03	
asc. node	905 Jul 29 j 12:25	14°♐50'33			910 Jul 21 j 13:20	0°♎	
	905 Aug 22 j 18:22	0°♑			910 Sep 06 j 20:31	0°♌	
	905 Oct 17 j 21:41	0°♌			910 Oct 18 j 03:59	0°♌	
retrograde	905 Dec 09 j 21:38	13°♌39'54			910 Nov 26 j 08:32	0°♐	
opposition	906 Jan 19 j 00:49	3°♌55'40	4°32'12		911 Jan 04 j 04:14	0°♎	
greatest brilliancy	906 Jan 18 j 22:24	3°♌58'05	-1.3m		911 Feb 12 j 18:47	0°♐	
min. Earth dist.	906 Jan 18 j 16:35	4°♌03'54	0.67527 AU	asc. node	911 Mar 21 j 09:11	26°♐44'19	
	906 Jan 29 j 04:28	30°♎			911 Mar 25 j 22:45	0°♌	
direct	906 Feb 28 j 14:54	24°♑10'10		evening set	911 Apr 16 j 01:46	14°♌52'50	
	906 Apr 03 j 05:32	0°♌			911 May 08 j 00:57	0°♐	
	906 Jun 07 j 21:45	0°♎					
	906 Jul 28 j 00:19	0°♊		conjunction	911 Jun 08 j 16:18	21°♐13'06	0°43'50
desc. node	906 Aug 17 j 04:52	13°♊10'03		minimum elong	911 Jun 08 j 14:46	21°♐10'34	0°43'49
	906 Sep 10 j 21:19	0°♎			911 Jun 22 j 00:41	0°♑	
	906 Oct 22 j 11:11	0°♌		max. Earth dist.	911 Jun 27 j 15:15	3°♑39'48	2.62306 AU
	906 Nov 30 j 20:45	0°♌		morning rise	911 Jul 27 j 15:39	23°♑02'45	
evening set	906 Dec 06 j 16:30	4°♌31'45			911 Aug 07 j 13:08	0°♌	
	907 Jan 08 j 02:07	0°♐			911 Sep 24 j 04:44	0°♎	
					911 Nov 11 j 23:35	0°♊	
conjunction	907 Feb 10 j 19:40	26°♐38'01	-1°02'36		912 Jan 02 j 02:32	0°♎	
minimum elong	907 Feb 10 j 21:25	26°♐41'28	1°02'34		912 Mar 02 j 06:01	0°♌	
	907 Feb 15 j 02:29	0°♎		desc. node	912 Apr 08 j 01:56	10°♌22'05	
	907 Mar 25 j 19:49	0°♐		retrograde	912 Apr 18 j 17:29	11°♌02'57	
max. Earth dist.	907 Mar 28 j 06:21	1°♐51'24	2.38932 AU	opposition	912 May 21 j 17:36	4°♌49'52	-2°25'36
morning rise	907 Apr 21 j 06:46	19°♐53'19		greatest brilliancy	912 May 22 j 10:25	4°♌36'20	-2.5m
	907 May 05 j 01:14	0°♌		min. Earth dist.	912 May 29 j 20:28	2°♌14'09	0.44582 AU
asc. node	907 Jun 16 j 10:51	0°♐02'04			912 Jun 06 j 16:29	30°♎	
	907 Jun 16 j 09:39	0°♐		direct	912 Jun 26 j 15:22	27°♎17'30	
	907 Jul 31 j 09:52	0°♑			912 Jul 16 j 21:02	0°♌	
	907 Sep 17 j 23:51	0°♌			912 Sep 16 j 04:25	0°♌	
	907 Nov 13 j 08:14	0°♎			912 Oct 29 j 23:42	0°♐	
retrograde	908 Jan 14 j 03:42	17°♎02'32			912 Dec 10 j 07:50	0°♎	
opposition	908 Feb 22 j 08:50	7°♎55'49	4°09'54		913 Jan 20 j 18:28	0°♐	
greatest brilliancy	908 Feb 22 j 20:47	7°♎44'07	-1.4m	asc. node	913 Feb 05 j 07:23	11°♐03'08	
min. Earth dist.	908 Feb 25 j 21:51	6°♎32'35	0.65698 AU		913 Mar 04 j 09:55	0°♌	
	908 Mar 16 j 18:26	30°♎			913 Apr 17 j 16:00	0°♐	
direct	908 Apr 03 j 19:16	27°♌53'51		evening set	913 May 31 j 01:28	28°♐27'39	
	908 Apr 22 j 20:57	0°♎			913 Jun 02 j 10:32	0°♑	
	908 Jul 02 j 07:42	0°♊					
desc. node	908 Jul 04 j 03:09	1°♊02'04		conjunction	913 Jul 17 j 23:15	29°♑12'17	1°07'40
	908 Aug 19 j 08:53	0°♎		minimum elong	913 Jul 17 j 22:44	29°♑11'27	1°07'39
	908 Sep 30 j 21:35	0°♌			913 Jul 19 j 05:12	0°♌	
	908 Nov 09 j 14:09	0°♌		max. Earth dist.	913 Jul 21 j 02:48	1°♌12'41	2.67132 AU
	908 Dec 17 j 22:23	0°♐		morning rise	913 Sep 01 j 02:53	27°♌57'27	
	909 Jan 25 j 02:08	0°♎			913 Sep 04 j 07:48	0°♎	
evening set	909 Feb 14 j 14:20	15°♎54'46			913 Oct 21 j 05:24	0°♊	
	909 Mar 05 j 00:55	0°♐			913 Dec 06 j 17:39	0°♎	
	909 Apr 14 j 12:56	0°♌			914 Jan 22 j 02:40	0°♌	
				desc. node	914 Feb 24 j 00:59	21°♌06'26	
conjunction	909 Apr 19 j 04:48	3°♌21'48	-0°09'00		914 Mar 10 j 03:26	0°♌	

	914 Apr 29 j 17:30	0°♊		evening set	919 Sep 23 j 19:03	19°♌48'37	
retrograde	914 Jul 06 j 19:23	22°♊48'08			919 Oct 08 j 10:44	0°♌	
min. Earth dist.	914 Aug 04 j 10:43	18°♊07'42	0.37459 AU	max. Earth dist.	919 Oct 08 j 17:15	0°♌11'27	2.49850 AU
opposition	914 Aug 06 j 08:22	17°♊37'15	-6°49'31	desc. node	919 Oct 16 j 21:19	5°♌57'25	
greatest brilliancy	914 Aug 06 j 00:40	17°♊42'23	-2.9m				
direct	914 Sep 04 j 20:11	12°♊42'19		conjunction	919 Nov 13 j 21:15	26°♌10'32	-0°17'21
	914 Nov 01 j 07:44	0°♋		minimum elong	919 Nov 13 j 20:21	26°♌08'53	0°17'20
	914 Dec 23 j 09:53	0°♋			919 Nov 19 j 01:53	0°♋	
asc. node	914 Dec 24 j 07:05	0°♋32'52			919 Dec 28 j 21:15	0°♋	
	915 Feb 08 j 20:16	0°♋		morning rise	920 Jan 09 j 18:51	9°♋09'48	
	915 Mar 27 j 20:42	0°♋			920 Feb 05 j 13:37	0°♋	
	915 May 14 j 06:45	0°♋			920 Mar 14 j 22:18	0°♋	
	915 Jun 30 j 21:36	0°♋			920 Apr 22 j 20:37	0°♋	
evening set	915 Jul 09 j 00:07	5°♋07'07			920 Jun 02 j 08:08	0°♋	
max. Earth dist.	915 Aug 13 j 09:06	27°♋36'16	2.66512 AU		920 Jul 15 j 13:46	0°♋	
	915 Aug 17 j 02:51	0°♋		asc. node	920 Aug 15 j 04:30	19°♋31'22	
					920 Sep 01 j 23:54	0°♋	
conjunction	915 Aug 23 j 17:22	4°♋14'26	1°03'50		920 Nov 15 j 22:33	0°♋	
minimum elong	915 Aug 23 j 18:10	4°♋15'44	1°03'49	retrograde	920 Nov 26 j 13:38	0°♋42'08	
	915 Oct 02 j 07:59	0°♋			920 Dec 06 j 19:32	30°♋	
morning rise	915 Oct 07 j 08:08	3°♋18'07		min. Earth dist.	921 Jan 03 j 21:26	21°♋33'57	0.66446 AU
	915 Nov 16 j 04:23	0°♋		opposition	921 Jan 05 j 18:09	20°♋49'05	4°19'14
	915 Dec 29 j 15:10	0°♋		greatest brilliancy	921 Jan 05 j 10:14	20°♋57'01	-1.3m
desc. node	916 Jan 12 j 00:06	9°♋25'10		direct	921 Feb 14 j 15:15	11°♋17'19	
	916 Feb 09 j 20:21	0°♋			921 Apr 21 j 20:16	0°♋	
	916 Mar 22 j 05:53	0°♋			921 Jun 17 j 08:32	0°♋	
	916 May 02 j 16:50	0°♋			921 Aug 04 j 22:20	0°♋	
	916 Jun 15 j 10:37	0°♋		desc. node	921 Sep 02 j 20:54	19°♋16'34	
	916 Aug 11 j 12:33	0°♋			921 Sep 18 j 08:50	0°♋	
retrograde	916 Sep 08 j 09:07	5°♋08'51			921 Oct 29 j 20:48	0°♋	
	916 Oct 05 j 15:07	30°♋		evening set	921 Nov 12 j 07:33	10°♋05'19	
min. Earth dist.	916 Oct 06 j 18:50	29°♋36'20	0.46921 AU		921 Dec 08 j 07:24	0°♋	
opposition	916 Oct 14 j 23:46	26°♋42'05	-1°26'05	max. Earth dist.	921 Dec 21 j 10:22	10°♋12'57	2.37705 AU
greatest brilliancy	916 Oct 14 j 14:03	26°♋50'42	-2.4m				
asc. node	916 Nov 10 j 06:39	20°♋09'29		conjunction	922 Jan 13 j 02:15	28°♋01'27	-1°03'29
direct	916 Nov 17 j 00:46	19°♋51'10		minimum elong	922 Jan 13 j 00:59	27°♋58'57	1°03'28
	916 Dec 31 j 02:46	0°♋			922 Jan 15 j 14:22	0°♋	
	917 Mar 01 j 12:06	0°♋			922 Feb 22 j 15:42	0°♋	
	917 Apr 22 j 07:32	0°♋		morning rise	922 Mar 24 j 03:22	22°♋55'47	
	917 Jun 10 j 21:10	0°♋			922 Apr 02 j 08:50	0°♋	
	917 Jul 28 j 20:17	0°♋			922 May 12 j 13:33	0°♋	
evening set	917 Aug 14 j 07:27	10°♋33'30			922 Jun 23 j 23:08	0°♋	
max. Earth dist.	917 Sep 06 j 11:57	25°♋41'48	2.60558 AU	asc. node	922 Jul 03 j 03:23	6°♋15'07	
	917 Sep 12 j 23:56	0°♋			922 Aug 08 j 08:08	0°♋	
					922 Sep 27 j 10:21	0°♋	
conjunction	917 Sep 29 j 18:20	11°♋14'04	0°34'18		922 Dec 03 j 14:15	0°♋	
minimum elong	917 Sep 29 j 19:27	11°♋15'56	0°34'17	retrograde	922 Dec 31 j 02:29	4°♋08'28	
	917 Oct 27 j 03:24	0°♋			923 Jan 25 j 11:46	30°♋	
morning rise	917 Nov 16 j 09:53	14°♋14'39		opposition	923 Feb 08 j 19:34	24°♋44'21	4°28'07
desc. node	917 Nov 28 j 22:50	23°♋12'23		greatest brilliancy	923 Feb 09 j 02:17	24°♋37'42	-1.3m
	917 Dec 08 j 08:31	0°♋		min. Earth dist.	923 Feb 10 j 20:05	23°♋56'20	0.67221 AU
	918 Jan 17 j 22:42	0°♋		direct	923 Mar 22 j 02:13	14°♋45'12	
	918 Feb 26 j 10:37	0°♋			923 May 18 j 17:29	0°♋	
	918 Apr 06 j 13:39	0°♋			923 Jul 13 j 14:56	0°♋	
	918 May 16 j 08:05	0°♋		desc. node	923 Jul 21 j 20:26	5°♋03'26	
	918 Jun 27 j 07:24	0°♋			923 Aug 28 j 22:09	0°♋	
	918 Aug 14 j 00:51	0°♋			923 Oct 09 j 22:28	0°♋	
asc. node	918 Sep 28 j 05:09	19°♋58'01			923 Nov 18 j 10:30	0°♋	
retrograde	918 Oct 22 j 11:52	23°♋39'08			923 Dec 26 j 16:13	0°♋	
min. Earth dist.	918 Nov 25 j 07:32	16°♋01'47	0.59224 AU	evening set	924 Jan 18 j 17:22	18°♋12'22	
opposition	918 Nov 30 j 22:54	13°♋48'05	2°39'14		924 Feb 02 j 17:23	0°♋	
greatest brilliancy	918 Nov 30 j 08:48	14°♋02'01	-1.7m		924 Mar 12 j 12:41	0°♋	
direct	919 Jan 07 j 03:08	5°♋13'05					
	919 Mar 26 j 10:33	0°♋		conjunction	924 Mar 25 j 17:39	9°♋58'19	-0°34'01
	919 May 20 j 19:09	0°♋		minimum elong	924 Mar 25 j 20:10	10°♋03'01	0°33'59
	919 Jul 09 j 17:40	0°♋			924 Apr 21 j 20:43	0°♋	
	919 Aug 25 j 11:04	0°♋		max. Earth dist.	924 May 11 j 20:01	14°♋19'58	2.47089 AU

asc. node	924 May 20 j 01:43	20°♄08'28	direct	929 Aug 05 j 03:21	11°♄21'12	
morning rise	924 May 27 j 03:49	25°♄05'27		929 Oct 02 j 13:16	0°♄	
	924 Jun 03 j 05:57	0°♄		929 Nov 20 j 19:07	0°♄	
	924 Jul 17 j 23:01	0°♄		930 Jan 04 j 16:48	0°♄	
	924 Sep 03 j 05:58	0°♄	asc. node	930 Jan 09 j 23:00	3°♄32'45	
	924 Oct 24 j 06:01	0°♄		930 Feb 18 j 09:30	0°♄	
	924 Dec 25 j 17:44	0°♄		930 Apr 04 j 23:33	0°♄	
retrograde	925 Feb 06 j 01:06	8°♄48'52		930 May 21 j 14:03	0°♄	
opposition	925 Mar 16 j 02:11	0°♄17'02 3°11'38	evening set	930 Jun 24 j 06:59	21°♄26'14	
	925 Mar 16 j 20:01	30°♄		930 Jul 07 j 18:47	0°♄	
greatest brilliancy	925 Mar 16 j 18:40	0°♄01'18 -1.6m	max. Earth dist.	930 Aug 04 j 05:26	17°♄26'28	2.67391 AU
min. Earth dist.	925 Mar 21 j 21:39	28°♄03'48 0.61403 AU				
direct	925 Apr 26 j 04:49	20°♄22'53	conjunction	930 Aug 09 j 12:31	20°♄48'57	1°08'26
desc. node	925 Jun 07 j 18:29	29°♄59'54	minimum elong	930 Aug 09 j 12:52	20°♄49'30	1°08'25
	925 Jun 07 j 18:35	0°♄		930 Aug 23 j 21:27	0°♄	
	925 Aug 03 j 08:01	0°♄	morning rise	930 Sep 22 j 23:42	19°♄23'14	
	925 Sep 16 j 18:16	0°♄		930 Oct 09 j 07:01	0°♄	
	925 Oct 27 j 03:47	0°♄		930 Nov 23 j 15:30	0°♄	
	925 Dec 04 j 20:56	0°♄		931 Jan 06 j 22:21	0°♄	
	926 Jan 12 j 07:54	0°♄	desc. node	931 Jan 28 j 15:52	14°♄57'26	
	926 Feb 20 j 14:01	0°♄		931 Feb 19 j 08:08	0°♄	
evening set	926 Mar 25 j 14:46	24°♄22'56		931 Apr 03 j 09:23	0°♄	
	926 Apr 02 j 09:40	0°♄		931 May 17 j 14:13	0°♄	
asc. node	926 Apr 07 j 01:33	3°♄20'19		931 Jul 08 j 22:08	0°♄	
	926 May 15 j 04:39	0°♄	retrograde	931 Aug 18 j 14:21	10°♄17'43	
			min. Earth dist.	931 Sep 14 j 11:10	5°♄31'18	0.41945 AU
conjunction	926 May 21 j 18:09	4°♄28'42 0°26'36	opposition	931 Sep 21 j 23:28	3°♄06'49	-3°51'05
minimum elong	926 May 21 j 16:51	4°♄26'30 0°26'35	greatest brilliancy	931 Sep 21 j 01:17	3°♄24'38	-2.6m
max. Earth dist.	926 Jun 16 j 21:48	22°♄01'59 2.58933 AU		931 Oct 02 j 12:13	30°♄	
	926 Jun 28 j 23:47	0°♄	direct	931 Oct 23 j 02:07	27°♄11'52	
morning rise	926 Jul 12 j 09:17	8°♄44'27		931 Nov 13 j 13:11	0°♄	
	926 Aug 14 j 13:07	0°♄	asc. node	931 Nov 27 j 22:14	4°♄25'27	
	926 Oct 01 j 16:06	0°♄		932 Jan 20 j 09:30	0°♄	
	926 Nov 20 j 21:34	0°♄		932 Mar 12 j 01:26	0°♄	
	927 Jan 15 j 17:15	0°♄		932 Apr 30 j 12:42	0°♄	
retrograde	927 Mar 26 j 11:33	20°♄40'21		932 Jun 18 j 03:16	0°♄	
desc. node	927 Apr 25 j 17:12	15°♄09'52	evening set	932 Jul 30 j 16:43	26°♄47'18	
opposition	927 Apr 30 j 05:16	13°♄38'03 -0°13'47		932 Aug 04 j 17:28	0°♄	
greatest brilliancy	927 Apr 30 j 07:05	13°♄36'28 -2.2m	max. Earth dist.	932 Aug 27 j 08:21	14°♄34'40	2.63496 AU
min. Earth dist.	927 May 08 j 14:33	10°♄43'22 0.49822 AU				
direct	927 Jun 07 j 11:45	4°♄59'21	conjunction	932 Sep 14 j 12:05	26°♄27'59	0°48'42
	927 Aug 16 j 16:39	0°♄	minimum elong	932 Sep 14 j 13:17	26°♄29'57	0°48'41
	927 Oct 01 j 06:06	0°♄		932 Sep 19 j 20:22	0°♄	
	927 Nov 11 j 03:37	0°♄	morning rise	932 Oct 30 j 10:37	27°♄24'17	
	927 Dec 21 j 01:07	0°♄		932 Nov 03 j 04:59	0°♄	
	928 Jan 30 j 12:02	0°♄	desc. node	932 Dec 15 j 14:44	29°♄51'31	
asc. node	928 Feb 23 j 00:50	17°♄00'20		932 Dec 15 j 19:27	0°♄	
	928 Mar 12 j 09:13	0°♄		933 Jan 25 j 21:39	0°♄	
	928 Apr 25 j 01:24	0°♄		933 Mar 06 j 22:32	0°♄	
evening set	928 May 14 j 07:59	12°♄52'03		933 Apr 15 j 15:29	0°♄	
	928 Jun 09 j 10:21	0°♄		933 May 26 j 04:36	0°♄	
				933 Jul 08 j 21:01	0°♄	
conjunction	928 Jul 03 j 00:01	15°♄14'50 1°01'51		933 Sep 03 j 04:35	0°♄	
minimum elong	928 Jul 02 j 22:57	15°♄13'08 1°01'51	retrograde	933 Oct 06 j 18:42	6°♄56'19	
max. Earth dist.	928 Jul 12 j 01:56	21°♄04'36 2.65876 AU	asc. node	933 Oct 14 j 21:59	6°♄27'24	
	928 Jul 26 j 00:45	0°♄		933 Nov 07 j 16:47	30°♄	
morning rise	928 Aug 18 j 05:34	14°♄46'00	min. Earth dist.	933 Nov 07 j 12:25	0°♄04'08	0.54825 AU
	928 Sep 11 j 06:06	0°♄	opposition	933 Nov 14 j 11:15	27°♄23'23	1°25'44
	928 Oct 28 j 16:20	0°♄	greatest brilliancy	933 Nov 14 j 01:35	27°♄32'44	-1.9m
	928 Dec 15 j 09:18	0°♄	direct	933 Dec 20 j 05:10	19°♄22'02	
	929 Feb 02 j 05:49	0°♄		934 Feb 04 j 10:48	0°♄	
desc. node	929 Mar 12 j 17:00	22°♄11'14		934 Apr 06 j 21:32	0°♄	
	929 Mar 27 j 11:17	0°♄		934 May 29 j 02:15	0°♄	
retrograde	929 Jun 04 j 13:18	21°♄50'31		934 Jul 17 j 01:18	0°♄	
opposition	929 Jul 04 j 20:57	16°♄48'03 -6°09'59		934 Sep 01 j 11:37	0°♄	
greatest brilliancy	929 Jul 05 j 14:32	16°♄36'03 -2.9m	evening set	934 Sep 07 j 06:24	3°♄51'04	
min. Earth dist.	929 Jul 08 j 10:33	15°♄49'46 0.38302 AU	max. Earth dist.	934 Sep 24 j 13:53	15°♄32'37	2.54533 AU

	934 Oct 15 j 11:51	0°♄			939 Jun 11 j 13:26	0°♄	
					939 Jul 26 j 08:51	0°♄	
conjunction	934 Oct 25 j 22:22	7°♄21'07	0°04'45		939 Sep 12 j 07:24	0°♄	
minimum elong	934 Oct 25 j 22:35	7°♄21'30	0°04'45		939 Nov 04 j 21:53	0°♄	
behind sun begin	934 Oct 25 j 02:07	6°♄45'17		retrograde	940 Jan 22 j 13:01	25°♄04'13	
behind sun end	934 Oct 26 j 19:03	7°♄57'46		opposition	940 Mar 01 j 09:30	16°♄08'37	3°52'50
desc. node	934 Nov 02 j 14:13	12°♄48'20		greatest brilliancy	940 Mar 01 j 23:43	15°♄54'47	-1.4m
	934 Nov 26 j 07:28	0°♄		min. Earth dist.	940 Mar 05 j 18:12	14°♄26'46	0.64443 AU
morning rise	934 Dec 17 j 04:56	15°♄30'38		direct	940 Apr 11 j 19:02	6°♄07'13	
	935 Jan 05 j 08:57	0°♄		desc. node	940 Jun 24 j 10:25	29°♄54'58	
	935 Feb 13 j 07:19	0°♄			940 Jun 24 j 14:13	0°♄	
	935 Mar 23 j 21:11	0°♄			940 Aug 13 j 12:41	0°♄	
	935 May 02 j 00:19	0°♄			940 Sep 25 j 14:24	0°♄	
	935 Jun 11 j 19:20	0°♄			940 Nov 04 j 12:03	0°♄	
	935 Jul 25 j 21:39	0°♄			940 Dec 12 j 22:41	0°♄	
asc. node	935 Sep 01 j 19:54	22°♄40'56			941 Jan 20 j 04:15	0°♄	
	935 Sep 15 j 22:34	0°♄			941 Feb 28 j 04:45	0°♄	
retrograde	935 Nov 14 j 00:59	17°♄14'08		evening set	941 Mar 01 j 10:38	0°♄56'26	
min. Earth dist.	935 Dec 20 j 17:26	8°♄37'49	0.64367 AU		941 Apr 09 j 18:26	0°♄	
opposition	935 Dec 24 j 02:21	7°♄16'42	3°53'08	asc. node	941 Apr 23 j 17:49	10°♄00'43	
greatest brilliancy	935 Dec 23 j 14:07	7°♄28'59	-1.4m				
	936 Jan 14 j 19:17	30°♄		conjunction	941 May 01 j 16:54	15°♄38'39	0°05'00
direct	936 Feb 01 j 01:24	28°♄03'09		minimum elong	941 May 01 j 16:35	15°♄38'07	0°05'00
	936 Feb 19 j 14:56	0°♄		behind sun begin	941 Apr 30 j 17:23	14°♄57'15	
	936 May 03 j 23:23	0°♄		behind sun end	941 May 02 j 15:48	16°♄18'56	
	936 Jun 25 j 19:26	0°♄			941 May 22 j 08:10	0°♄	
	936 Aug 12 j 10:53	0°♄		max. Earth dist.	941 Jun 04 j 19:15	9°♄11'17	2.54807 AU
desc. node	936 Sep 19 j 13:09	25°♄44'01		morning rise	941 Jun 25 j 20:14	23°♄17'10	
	936 Sep 25 j 15:41	0°♄			941 Jul 06 j 00:31	0°♄	
evening set	936 Oct 21 j 18:49	18°♄41'04			941 Aug 21 j 17:20	0°♄	
	936 Nov 06 j 04:12	0°♄			941 Oct 09 j 13:41	0°♄	
max. Earth dist.	936 Nov 08 j 15:50	1°♄50'50	2.41985 AU		941 Dec 01 j 03:36	0°♄	
	936 Dec 15 j 17:37	0°♄			942 Feb 09 j 16:49	0°♄	
				retrograde	942 Mar 05 j 16:59	3°♄08'24	
conjunction	936 Dec 17 j 15:40	1°♄28'59	-0°50'33		942 Mar 28 j 00:59	30°♄	
minimum elong	936 Dec 17 j 13:17	1°♄24'23	0°50'31	opposition	942 Apr 10 j 23:17	25°♄24'58	1°26'27
	937 Jan 23 j 03:24	0°♄		greatest brilliancy	942 Apr 11 j 10:21	25°♄14'51	-1.9m
morning rise	937 Feb 21 j 17:12	23°♄17'10		min. Earth dist.	942 Apr 18 j 16:06	22°♄36'04	0.54887 AU
	937 Mar 02 j 06:33	0°♄		desc. node	942 May 12 j 09:08	16°♄32'30	
	937 Apr 10 j 00:18	0°♄		direct	942 May 20 j 19:16	16°♄03'16	
	937 May 20 j 05:23	0°♄			942 Jul 10 j 17:26	0°♄	
	937 Jul 01 j 18:29	0°♄			942 Aug 30 j 21:04	0°♄	
asc. node	937 Jul 19 j 18:48	12°♄04'38			942 Oct 12 j 04:02	0°♄	
	937 Aug 16 j 18:59	0°♄			942 Nov 20 j 18:59	0°♄	
	937 Oct 08 j 16:19	0°♄			942 Dec 29 j 21:23	0°♄	
retrograde	937 Dec 17 j 14:15	21°♄27'21			943 Feb 07 j 17:11	0°♄	
opposition	938 Jan 26 j 14:42	11°♄49'19	4°34'10	asc. node	943 Mar 11 j 16:14	23°♄18'20	
greatest brilliancy	938 Jan 26 j 15:33	11°♄48'27	-1.3m		943 Mar 21 j 01:25	0°♄	
min. Earth dist.	938 Jan 27 j 02:39	11°♄37'23	0.67703 AU	evening set	943 Apr 27 j 04:47	25°♄50'49	
direct	938 Mar 08 j 11:48	1°♄57'45			943 May 03 j 07:13	0°♄	
	938 May 31 j 22:30	0°♄			943 Jun 17 j 09:02	0°♄	
	938 Jul 22 j 13:20	0°♄					
desc. node	938 Aug 07 j 11:45	10°♄12'29		conjunction	943 Jun 18 j 04:56	0°♄32'31	0°51'44
	938 Sep 05 j 21:10	0°♄		minimum elong	943 Jun 18 j 03:29	0°♄30'09	0°51'43
	938 Oct 17 j 14:49	0°♄		max. Earth dist.	943 Jul 03 j 10:56	10°♄27'31	2.63810 AU
	938 Nov 26 j 01:29	0°♄			943 Aug 02 j 21:16	0°♄	
evening set	938 Dec 21 j 15:57	20°♄02'07		morning rise	943 Aug 05 j 00:43	1°♄22'00	
	939 Jan 03 j 06:56	0°♄			943 Sep 19 j 07:58	0°♄	
	939 Feb 10 j 07:22	0°♄			943 Nov 06 j 12:20	0°♄	
					943 Dec 26 j 01:08	0°♄	
conjunction	939 Feb 27 j 02:51	13°♄07'50	-0°55'18		944 Feb 17 j 19:10	0°♄	
minimum elong	939 Feb 27 j 05:45	13°♄13'29	0°55'16	desc. node	944 Mar 29 j 08:11	17°♄51'51	
	939 Mar 21 j 00:49	0°♄		retrograde	944 May 04 j 10:54	24°♄46'01	
max. Earth dist.	939 Apr 19 j 09:45	22°♄02'39	2.41676 AU	opposition	944 Jun 05 j 08:57	19°♄02'19	-3°51'46
	939 Apr 30 j 06:05	0°♄		greatest brilliancy	944 Jun 06 j 07:45	18°♄45'06	-2.6m
morning rise	939 May 05 j 13:28	3°♄51'10		min. Earth dist.	944 Jun 12 j 14:39	16°♄51'50	0.41908 AU
asc. node	939 Jun 06 j 18:56	26°♄41'58		direct	944 Jul 09 j 15:30	12°♄16'09	

	944 Sep 03 j 19:07	0°♁		desc. node	949 Nov 19 j 05:44	19°♌37'45	
	944 Oct 21 j 20:04	0°♊		morning rise	949 Nov 26 j 20:32	25°♌07'18	
	944 Dec 03 j 15:36	0°♐			949 Dec 03 j 13:45	0°♈	
	945 Jan 14 j 22:13	0°♑			950 Jan 12 j 23:34	0°♈	
asc. node	945 Jan 26 j 15:24	8°♑13'42			950 Feb 21 j 06:25	0°♊	
	945 Feb 27 j 02:30	0°♐			950 Apr 01 j 04:03	0°♐	
	945 Apr 12 j 17:25	0°♊			950 May 10 j 15:24	0°♑	
	945 May 28 j 17:25	0°♋			950 Jun 21 j 00:13	0°♐	
evening set	945 Jun 09 j 01:58	7°♋18'01			950 Aug 05 j 18:55	0°♊	
	945 Jul 14 j 14:50	0°♌		asc. node	950 Sep 18 j 12:47	22°♊50'57	
					950 Oct 09 j 11:30	0°♋	
conjunction	945 Jul 26 j 06:07	7°♌24'29	1°09'06	retrograde	950 Oct 30 j 22:51	2°♋52'18	
minimum elong	945 Jul 26 j 05:55	7°♌24'10	1°09'06		950 Nov 20 j 02:50	30°♐♊	
max. Earth dist.	945 Jul 26 j 08:31	7°♌28'17	2.67460 AU	min. Earth dist.	950 Dec 04 j 19:53	24°♊52'35	0.61288 AU
	945 Aug 30 j 17:00	0°♐		opposition	950 Dec 09 j 16:16	22°♊56'39	3°11'47
morning rise	945 Sep 09 j 00:39	5°♐57'31		greatest brilliancy	950 Dec 09 j 01:48	23°♊11'05	-1.6m
	945 Oct 16 j 09:38	0°♊		direct	951 Jan 16 j 12:37	14°♊06'26	
	945 Dec 01 j 10:33	0°♌			951 Mar 17 j 04:20	0°♋	
	946 Jan 15 j 21:43	0°♈			951 May 14 j 20:44	0°♌	
desc. node	946 Feb 14 j 08:33	19°♈31'05			951 Jul 04 j 16:06	0°♐	
	946 Mar 02 j 05:09	0°♁			951 Aug 20 j 16:59	0°♊	
	946 Apr 17 j 14:22	0°♊		evening set	951 Oct 03 j 18:51	0°♌00'00	
	946 Jun 10 j 06:24	0°♐			951 Oct 03 j 18:51	0°♌	
retrograde	946 Jul 23 j 17:35	11°♐05'21		desc. node	951 Oct 07 j 04:42	2°♌23'57	
min. Earth dist.	946 Aug 19 j 18:42	6°♐37'48	0.38354 AU	max. Earth dist.	951 Oct 18 j 08:44	10°♌19'50	2.47068 AU
opposition	946 Aug 24 j 08:35	5°♐20'29	-6°08'06		951 Nov 14 j 09:18	0°♈	
greatest brilliancy	946 Aug 23 j 13:26	5°♐34'01	-2.9m				
direct	946 Sep 23 j 02:44	0°♐14'24		conjunction	951 Nov 25 j 15:13	8°♈22'18	-0°30'10
	946 Dec 13 j 17:34	0°♑		minimum elong	951 Nov 25 j 13:37	8°♈19'19	0°30'08
asc. node	946 Dec 14 j 13:53	0°♑28'35			951 Dec 24 j 02:42	0°♁	
	947 Feb 02 j 01:42	0°♐		morning rise	952 Jan 24 j 16:24	24°♁30'47	
	947 Mar 22 j 06:32	0°♊			952 Jan 31 j 16:32	0°♊	
	947 May 09 j 06:39	0°♋			952 Mar 09 j 22:50	0°♐	
	947 Jun 26 j 04:43	0°♌			952 Apr 17 j 18:51	0°♑	
evening set	947 Jul 17 j 06:41	13°♌17'26			952 May 28 j 02:39	0°♐	
	947 Aug 12 j 12:50	0°♐			952 Jul 09 j 23:33	0°♊	
max. Earth dist.	947 Aug 18 j 18:35	4°♐00'13	2.65678 AU	asc. node	952 Aug 05 j 11:47	17°♊18'58	
					952 Aug 26 j 04:07	0°♋	
conjunction	947 Aug 31 j 21:25	12°♐28'03	0°59'22		952 Oct 24 j 16:28	0°♌	
minimum elong	947 Aug 31 j 22:25	12°♐29'41	0°59'21	retrograde	952 Dec 04 j 06:26	8°♌39'14	
	947 Sep 27 j 17:07	0°♊			953 Jan 10 j 12:38	30°♐♊	
morning rise	947 Oct 15 j 19:17	12°♊01'10		min. Earth dist.	953 Jan 12 j 09:27	29°♊15'13	0.67167 AU
	947 Nov 11 j 09:25	0°♌		opposition	953 Jan 13 j 10:03	28°♊50'34	4°28'20
	947 Dec 24 j 12:31	0°♈		greatest brilliancy	953 Jan 13 j 05:04	28°♊55'33	-1.3m
desc. node	948 Jan 02 j 07:20	6°♈14'03		direct	953 Feb 22 j 16:26	19°♊10'46	
	948 Feb 04 j 07:04	0°♁			953 Apr 11 j 11:11	0°♌	
	948 Mar 16 j 02:31	0°♊			953 Jun 11 j 06:54	0°♐	
	948 Apr 25 j 17:38	0°♐			953 Jul 30 j 18:17	0°♊	
	948 Jun 06 j 18:29	0°♑		desc. node	953 Aug 24 j 03:54	16°♊02'58	
	948 Jul 24 j 21:47	0°♐			953 Sep 13 j 12:15	0°♌	
retrograde	948 Sep 19 j 09:19	17°♐52'14			953 Oct 25 j 02:32	0°♈	
min. Earth dist.	948 Oct 18 j 22:04	11°♐50'54	0.49799 AU	evening set	953 Nov 25 j 16:15	23°♈54'36	
opposition	948 Oct 26 j 21:10	8°♐55'10	-0°14'30		953 Dec 03 j 13:25	0°♁	
greatest brilliancy	948 Oct 26 j 19:34	8°♐56'38	-2.2m		954 Jan 10 j 19:39	0°♊	
asc. node	948 Oct 31 j 12:46	7°♐14'25					
direct	948 Nov 29 j 23:27	1°♐36'22		conjunction	954 Jan 29 j 01:47	14°♊25'30	-1°04'54
	949 Feb 21 j 12:02	0°♊		minimum elong	954 Jan 29 j 02:10	14°♊26'17	1°04'54
	949 Apr 16 j 11:54	0°♋			954 Feb 17 j 20:07	0°♐	
	949 Jun 05 j 20:13	0°♌		max. Earth dist.	954 Feb 22 j 12:38	3°♐40'35	2.37331 AU
	949 Jul 24 j 03:11	0°♐			954 Mar 28 j 12:34	0°♑	
evening set	949 Aug 22 j 20:16	19°♐06'45		morning rise	954 Apr 09 j 09:35	9°♑00'48	
	949 Sep 08 j 09:11	0°♊			954 May 07 j 16:19	0°♐	
max. Earth dist.	949 Sep 12 j 18:59	2°♊55'58	2.58611 AU		954 Jun 18 j 23:35	0°♊	
				asc. node	954 Jun 23 j 10:09	3°♊02'51	
conjunction	949 Oct 08 j 21:21	20°♊35'32	0°24'22		954 Aug 03 j 01:07	0°♋	
minimum elong	949 Oct 08 j 22:15	20°♊37'05	0°24'20		954 Sep 21 j 01:50	0°♌	
	949 Oct 22 j 11:51	0°♌			954 Nov 19 j 01:44	0°♐	

retrograde	955 Jan 08 j 02:45	11°♎58'18			959 Nov 04 j 13:15	0°♊	
opposition	955 Feb 16 j 13:15	2°♎43'24	4°18'52		959 Dec 15 j 02:52	0°♋	
greatest brilliancy	955 Feb 16 j 22:59	2°♎33'48	-1.3m		960 Jan 25 j 00:54	0°♌	
min. Earth dist.	955 Feb 19 j 09:51	1°♎35'50	0.66501 AU	asc. node	960 Feb 13 j 06:29	13°♌48'24	
	955 Feb 23 j 12:33	30°♎			960 Mar 07 j 06:19	0°♍	
direct	955 Mar 29 j 22:00	22°♎42'02			960 Apr 20 j 04:48	0°♎	
	955 May 06 j 11:46	0°♎		evening set	960 May 24 j 01:02	22°♎22'34	
	955 Jul 07 j 04:24	0°♏			960 Jun 04 j 17:56	0°♐	
desc. node	955 Jul 12 j 02:14	2°♏54'04					
	955 Aug 23 j 11:47	0°♐		conjunction	960 Jul 11 j 15:46	23°♐45'43	1°05'44
	955 Oct 04 j 20:10	0°♑		minimum elong	960 Jul 11 j 15:00	23°♐44'30	1°05'44
	955 Nov 13 j 11:38	0°♒		max. Earth dist.	960 Jul 17 j 10:43	27°♐27'40	2.66686 AU
greatest brilliancy	955 Dec 20 j 15:25	29°♒05'42	1.2m		960 Jul 21 j 10:10	0°♓	
	955 Dec 21 j 18:57	0°♓		morning rise	960 Aug 26 j 05:05	22°♓46'54	
	956 Jan 28 j 21:13	0°♈			960 Sep 06 j 13:37	0°♎	
evening set	956 Feb 03 j 13:56	4°♈27'03			960 Oct 23 j 16:25	0°♏	
	956 Mar 07 j 17:39	0°♉			960 Dec 09 j 16:22	0°♐	
					961 Jan 25 j 23:35	0°♑	
conjunction	956 Apr 08 j 22:23	24°♉02'09	-0°19'48	desc. node	961 Mar 03 j 00:05	22°♑15'19	
minimum elong	956 Apr 08 j 23:50	24°♉04'50	0°19'46		961 Mar 15 j 23:18	0°♒	
	956 Apr 17 j 02:34	0°♈			961 May 12 j 18:30	0°♓	
asc. node	956 May 10 j 10:09	16°♈41'19		retrograde	961 Jun 22 j 18:07	9°♓20'07	
max. Earth dist.	956 May 21 j 14:51	24°♈32'14	2.49971 AU	opposition	961 Jul 22 j 22:55	4°♓21'27	-6°50'05
	956 May 29 j 12:06	0°♎		greatest brilliancy	961 Jul 23 j 03:26	4°♓18'28	-2.9m
morning rise	956 Jun 07 j 13:05	6°♎12'06		min. Earth dist.	961 Jul 23 j 13:13	4°♓11'59	0.37439 AU
	956 Jul 13 j 03:22	0°♏			961 Aug 12 j 00:25	30°♒	
	956 Aug 29 j 03:05	0°♓		direct	961 Aug 21 j 21:47	29°♒20'42	
	956 Oct 18 j 02:37	0°♎			961 Aug 31 j 19:47	0°♓	
	956 Dec 14 j 03:24	0°♏			961 Nov 10 j 15:10	0°♈	
retrograde	957 Feb 15 j 13:10	17°♏32'52			961 Dec 28 j 10:58	0°♉	
opposition	957 Mar 25 j 00:29	9°♏16'28	2°39'24	asc. node	961 Dec 31 j 06:13	1°♉49'01	
greatest brilliancy	957 Mar 25 j 16:32	9°♏01'19	-1.7m		962 Feb 12 j 10:27	0°♈	
min. Earth dist.	957 Mar 31 j 13:36	6°♏48'09	0.59298 AU		962 Mar 30 j 17:09	0°♎	
	957 Apr 26 j 04:28	30°♎			962 May 16 j 17:12	0°♏	
direct	957 May 04 j 18:54	29°♎30'12		evening set	962 Jul 02 j 18:34	29°♏46'20	
	957 May 13 j 14:16	0°♏			962 Jul 03 j 03:13	0°♓	
desc. node	957 May 29 j 01:17	2°♏59'47		max. Earth dist.	962 Aug 09 j 12:21	23°♓44'15	2.67015 AU
	957 Jul 26 j 19:47	0°♐					
	957 Sep 10 j 16:58	0°♑		conjunction	962 Aug 17 j 15:51	28°♓56'38	1°06'12
	957 Oct 21 j 14:39	0°♒		minimum elong	962 Aug 17 j 16:29	28°♓57'38	1°06'12
	957 Nov 29 j 13:49	0°♓			962 Aug 19 j 07:26	0°♎	
	958 Jan 07 j 04:59	0°♈		morning rise	962 Oct 01 j 03:14	27°♎42'52	
	958 Feb 15 j 14:54	0°♉			962 Oct 04 j 14:56	0°♏	
asc. node	958 Mar 28 j 08:41	29°♉50'46			962 Nov 18 j 17:10	0°♐	
	958 Mar 28 j 13:51	0°♈			963 Jan 01 j 12:45	0°♑	
evening set	958 Apr 07 j 02:30	6°♈47'05		desc. node	963 Jan 18 j 22:52	12°♑09'08	
	958 May 10 j 11:34	0°♎			963 Feb 13 j 05:57	0°♒	
					963 Mar 27 j 06:31	0°♓	
conjunction	958 Jun 01 j 04:20	14°♎40'05	0°37'06		963 May 08 j 15:29	0°♈	
minimum elong	958 Jun 01 j 02:49	14°♎37'34	0°37'04		963 Jun 23 j 11:22	0°♉	
max. Earth dist.	958 Jun 23 j 04:00	29°♎14'12	2.60899 AU	retrograde	963 Aug 31 j 09:17	25°♉17'35	
	958 Jun 24 j 07:55	0°♏		min. Earth dist.	963 Sep 27 j 22:28	20°♉07'38	0.44607 AU
morning rise	958 Jul 21 j 05:27	17°♏28'07		greatest brilliancy	963 Oct 05 j 09:47	17°♉35'20	-2.5m
	958 Aug 09 j 19:45	0°♓		opposition	963 Oct 06 j 01:37	17°♉21'51	-2°26'07
	958 Sep 26 j 15:04	0°♎		direct	963 Nov 07 j 05:55	10°♉55'27	
	958 Nov 14 j 22:28	0°♏		asc. node	963 Nov 18 j 06:06	11°♉41'26	
	959 Jan 06 j 14:37	0°♐			964 Jan 10 j 01:05	0°♈	
	959 Mar 19 j 22:40	0°♑			964 Mar 05 j 11:34	0°♎	
retrograde	959 Apr 08 j 14:27	2°♑11'49			964 Apr 25 j 03:20	0°♏	
desc. node	959 Apr 16 j 01:01	1°♑50'55			964 Jun 13 j 06:25	0°♓	
	959 Apr 27 j 09:08	30°♎			964 Jul 31 j 02:02	0°♎	
opposition	959 May 12 j 10:32	25°♎35'38	-1°25'04	evening set	964 Aug 08 j 00:43	5°♎04'51	
greatest brilliancy	959 May 12 j 21:04	25°♎26'49	-2.3m	max. Earth dist.	964 Sep 02 j 04:57	21°♎23'52	2.61980 AU
min. Earth dist.	959 May 20 j 20:42	22°♎47'23	0.46909 AU		964 Sep 15 j 06:10	0°♏	
direct	959 Jun 18 j 11:58	17°♎30'29					
	959 Aug 03 j 20:26	0°♑		conjunction	964 Sep 23 j 03:02	5°♏14'12	0°40'47
	959 Sep 23 j 07:47	0°♒		minimum elong	964 Sep 23 j 04:14	5°♏16'11	0°40'46

	964 Oct 29 j 13:00	0°♌		retrograde	969 Dec 25 j 07:52	29°♏11'28	
morning rise	964 Nov 08 j 21:31	7°♌12'33		opposition	970 Feb 03 j 04:09	19°♏40'43	4°31'56
desc. node	964 Dec 05 j 21:45	26°♌21'43		greatest brilliancy	970 Feb 03 j 08:17	19°♏36'36	-1.3m
	964 Dec 10 j 22:58	0°♏		min. Earth dist.	970 Feb 04 j 12:12	19°♏08'51	0.67564 AU
	965 Jan 20 j 19:00	0°♐		direct	970 Mar 16 j 06:33	9°♏44'27	
	965 Mar 01 j 12:35	0°♑			970 May 23 j 23:15	0°♐	
	965 Apr 09 j 20:56	0°♒			970 Jul 16 j 20:10	0°♑	
	965 May 19 j 21:37	0°♓		desc. node	970 Jul 28 j 19:10	7°♑28'58	
	965 Jul 01 j 08:55	0°♈			970 Aug 31 j 18:27	0°♒	
	965 Aug 20 j 03:45	0°♉			970 Oct 12 j 16:52	0°♓	
asc. node	965 Oct 05 j 04:33	16°♉22'43			970 Nov 21 j 05:03	0°♈	
retrograde	965 Oct 15 j 22:47	17°♉09'32			970 Dec 29 j 10:47	0°♑	
min. Earth dist.	965 Nov 17 j 20:34	9°♉51'19	0.57347 AU	evening set	971 Jan 06 j 08:40	6°♑15'22	
opposition	965 Nov 24 j 02:11	7°♉24'41	2°11'20		971 Feb 05 j 11:09	0°♒	
greatest brilliancy	965 Nov 23 j 13:09	7°♉37'29	-1.8m				
	965 Dec 18 j 18:58	30°♒♈		conjunction	971 Mar 15 j 01:33	29°♒08'03	-0°44'04
direct	965 Dec 30 j 15:13	29°♒03'46		minimum elong	971 Mar 15 j 04:34	29°♒13'49	0°44'02
	966 Jan 12 j 01:57	0°♉			971 Mar 16 j 04:48	0°♓	
	966 Mar 30 j 18:24	0°♊			971 Apr 25 j 10:24	0°♈	
	966 May 23 j 15:05	0°♋		max. Earth dist.	971 May 03 j 23:00	6°♈10'40	2.44670 AU
	966 Jul 12 j 03:46	0°♌		morning rise	971 May 18 j 19:21	16°♈46'45	
	966 Aug 27 j 19:03	0°♍		asc. node	971 May 28 j 00:59	23°♈16'30	
evening set	966 Sep 16 j 12:56	13°♍14'18			971 Jun 06 j 17:15	0°♉	
max. Earth dist.	966 Oct 02 j 10:39	24°♍08'53	2.52015 AU		971 Jul 21 j 09:38	0°♊	
	966 Oct 10 j 20:18	0°♌			971 Sep 06 j 20:49	0°♋	
desc. node	966 Oct 23 j 20:28	9°♌11'04			971 Oct 28 j 16:26	0°♌	
					972 Jan 06 j 15:57	0°♍	
conjunction	966 Nov 05 j 10:18	18°♌12'08	-0°07'48	retrograde	972 Jan 31 j 06:23	3°♍17'40	
minimum elong	966 Nov 05 j 09:55	18°♌11'26	0°07'49		972 Feb 23 j 00:59	30°♒♐	
behind sun begin	966 Nov 04 j 14:24	17°♌36'12		opposition	972 Mar 09 j 16:17	24°♐34'34	3°30'39
behind sun end	966 Nov 06 j 05:26	18°♌46'42		greatest brilliancy	972 Mar 10 j 08:00	24°♐19'23	-1.5m
	966 Nov 21 j 14:29	0°♏		min. Earth dist.	972 Mar 14 j 20:05	22°♐35'07	0.62890 AU
morning rise	966 Dec 30 j 01:47	28°♏51'58		direct	972 Apr 19 j 22:19	14°♐36'04	
	966 Dec 31 j 13:25	0°♐		desc. node	972 Jun 14 j 17:29	29°♐47'03	
	967 Feb 08 j 08:47	0°♑			972 Jun 15 j 04:34	0°♑	
	967 Mar 18 j 19:30	0°♒			972 Aug 07 j 06:24	0°♒	
	967 Apr 26 j 19:07	0°♓			972 Sep 20 j 02:20	0°♓	
	967 Jun 06 j 08:04	0°♈			972 Oct 30 j 07:07	0°♈	
	967 Jul 19 j 19:00	0°♉			972 Dec 07 j 21:20	0°♑	
asc. node	967 Aug 23 j 03:36	21°♉27'52			973 Jan 15 j 05:12	0°♒	
	967 Sep 07 j 05:11	0°♊			973 Feb 23 j 07:47	0°♓	
retrograde	967 Nov 21 j 21:00	25°♊30'08		evening set	973 Mar 15 j 11:13	15°♓02'08	
min. Earth dist.	967 Dec 29 j 11:12	16°♊35'41	0.65634 AU		973 Apr 04 j 23:23	0°♈	
opposition	968 Jan 01 j 00:13	15°♊34'24	4°10'09	asc. node	973 Apr 14 j 00:27	6°♈29'23	
greatest brilliancy	967 Dec 31 j 14:08	15°♊44'32	-1.4m				
direct	968 Feb 09 j 11:35	6°♊10'19		conjunction	973 May 13 j 09:48	27°♈06'42	0°17'56
	968 Apr 26 j 11:26	0°♋		minimum elong	973 May 13 j 08:49	27°♈05'00	0°17'56
	968 Jun 20 j 06:39	0°♌			973 May 17 j 14:30	0°♉	
	968 Aug 07 j 11:44	0°♍		max. Earth dist.	973 Jun 12 j 00:59	17°♉14'23	2.57177 AU
desc. node	968 Sep 09 j 19:40	22°♍19'13			973 Jul 01 j 07:02	0°♊	
	968 Sep 20 j 21:11	0°♌		morning rise	973 Jul 05 j 11:37	2°♊44'55	
	968 Nov 01 j 10:26	0°♏			973 Aug 16 j 20:35	0°♋	
evening set	968 Nov 02 j 15:37	0°♏54'12			973 Oct 04 j 05:16	0°♌	
max. Earth dist.	968 Nov 27 j 02:38	19°♏21'00	2.39369 AU		973 Nov 24 j 06:07	0°♍	
	968 Dec 10 j 23:07	0°♐			974 Jan 22 j 13:49	0°♌	
				retrograde	974 Mar 17 j 02:30	13°♌16'09	
conjunction	969 Jan 01 j 04:34	16°♐32'06	-0°59'16	opposition	974 Apr 21 j 13:34	5°♌54'12	0°32'29
minimum elong	969 Jan 01 j 02:30	16°♐28'04	0°59'16	greatest brilliancy	974 Apr 21 j 18:15	5°♌50'02	-2.0m
	969 Jan 18 j 07:39	0°♑		min. Earth dist.	974 Apr 29 j 17:02	3°♌00'04	0.52149 AU
	969 Feb 25 j 09:34	0°♒		desc. node	974 May 02 j 16:03	1°♌59'45	
morning rise	969 Mar 10 j 22:29	10°♒35'00			974 May 09 j 04:40	30°♒♋	
	969 Apr 05 j 02:21	0°♓		direct	974 May 30 j 14:16	26°♋53'42	
	969 May 15 j 06:02	0°♈			974 Jun 21 j 18:53	0°♌	
	969 Jun 26 j 15:16	0°♉			974 Aug 22 j 20:04	0°♏	
asc. node	969 Jul 10 j 02:55	9°♉08'28			974 Oct 05 j 16:06	0°♐	
	969 Aug 11 j 03:54	0°♊			974 Nov 14 j 22:27	0°♑	
	969 Oct 01 j 01:52	0°♋			974 Dec 24 j 09:59	0°♒	

	975 Feb 02 j 12:43	0°♈		979 Dec 19 j 11:57	0°♏
asc. node	975 Mar 01 j 23:47	19°♈57'22	desc. node	979 Dec 23 j 13:22	2°♏53'58
	975 Mar 16 j 02:34	0°♉		980 Jan 29 j 21:35	0°♐
	975 Apr 28 j 12:34	0°♊		980 Mar 10 j 06:26	0°♑
evening set	975 May 07 j 17:43	6°♊12'23		980 Apr 19 j 07:42	0°♒
	975 Jun 12 j 17:06	0°♋		980 May 30 j 08:40	0°♓
				980 Jul 14 j 06:21	0°♈
conjunction	975 Jun 27 j 08:58	9°♋31'45 0°58'08	retrograde	980 Sep 29 j 13:38	29°♈28'44
minimum elong	975 Jun 27 j 07:43	9°♋29'43 0°58'08	asc. node	980 Oct 21 j 21:06	25°♈52'09
max. Earth dist.	975 Jul 09 j 03:18	17°♋07'14 2.65053 AU	min. Earth dist.	980 Oct 30 j 07:48	22°♈58'15 0.52632 AU
	975 Jul 29 j 05:43	0°♌	opposition	980 Nov 06 j 18:13	20°♈09'07 0°46'51
morning rise	975 Aug 13 j 05:43	9°♌33'13	greatest brilliancy	980 Nov 06 j 12:26	20°♈14'37 -2.1m
	975 Sep 14 j 12:45	0°♍	direct	980 Dec 11 j 18:35	12°♈25'37
	975 Nov 01 j 06:12	0°♎		981 Feb 11 j 21:43	0°♊
	975 Dec 19 j 15:50	0°♏		981 Apr 10 j 08:43	0°♋
	976 Feb 08 j 03:29	0°♐		981 May 31 j 16:56	0°♌
desc. node	976 Mar 19 j 15:48	21°♐31'41		981 Jul 19 j 09:21	0°♍
	976 Apr 07 j 20:36	0°♑	evening set	981 Aug 31 j 12:54	27°♍51'04
retrograde	976 May 21 j 13:11	9°♑50'33		981 Sep 03 j 18:48	0°♎
opposition	976 Jun 21 j 09:38	4°♑33'17 -5°15'46	max. Earth dist.	981 Sep 19 j 10:40	10°♎28'43 2.56442 AU
greatest brilliancy	976 Jun 22 j 08:57	4°♑16'43 -2.8m		981 Oct 17 j 21:12	0°♏
min. Earth dist.	976 Jun 26 j 22:35	2°♑59'00 0.39645 AU			
	976 Jul 09 j 05:54	30°♒♏	conjunction	981 Oct 18 j 09:28	0°♏21'24 0°13'24
direct	976 Jul 23 j 23:51	28°♒33'36	minimum elong	981 Oct 18 j 10:01	0°♏22'22 0°13'23
	976 Aug 07 j 12:53	0°♓	behind sun begin	981 Oct 17 j 22:11	0°♏01'43
	976 Oct 11 j 18:39	0°♐	behind sun end	981 Oct 18 j 21:52	0°♏43'01
	976 Nov 26 j 05:00	0°♑	desc. node	981 Nov 09 j 13:09	16°♏01'34
	977 Jan 08 j 16:27	0°♒		981 Nov 28 j 20:28	0°♓
asc. node	977 Jan 16 j 22:09	5°♒40'25	morning rise	981 Dec 08 j 00:59	6°♓45'09
	977 Feb 21 j 14:08	0°♓		982 Jan 08 j 02:09	0°♔
	977 Apr 07 j 16:00	0°♊		982 Feb 16 j 04:28	0°♑
	977 May 23 j 22:57	0°♋		982 Mar 26 j 21:18	0°♒
evening set	977 Jun 17 j 21:11	15°♋55'44		982 May 05 j 02:57	0°♓
	977 Jul 09 j 23:56	0°♌		982 Jun 15 j 01:45	0°♈
max. Earth dist.	977 Jul 31 j 14:15	13°♌44'08 2.67523 AU		982 Jul 29 j 15:25	0°♊
			asc. node	982 Sep 08 j 19:11	23°♊36'13
conjunction	977 Aug 03 j 11:31	15°♌34'20 1°09'10		982 Sep 22 j 09:17	0°♋
minimum elong	977 Aug 03 j 11:39	15°♌34'31 1°09'10	retrograde	982 Nov 08 j 03:12	11°♋40'41
	977 Aug 26 j 02:12	0°♍	min. Earth dist.	982 Dec 14 j 00:24	3°♋20'07 0.63115 AU
morning rise	977 Sep 17 j 00:23	14°♍04'14	greatest brilliancy	982 Dec 17 j 11:42	1°♋56'43 -1.5m
	977 Oct 11 j 15:07	0°♎	opposition	982 Dec 18 j 01:22	1°♋43'01 3°38'00
	977 Nov 26 j 06:54	0°♏		982 Dec 22 j 09:33	30°♒♊
desc. node	978 Jan 10 j 01:37	0°♐	direct	983 Jan 25 j 12:46	22°♊39'19
	978 Feb 04 j 14:44	17°♐19'26		983 Mar 04 j 16:15	0°♋
	978 Feb 23 j 05:19	0°♑		983 May 08 j 12:58	0°♌
	978 Apr 08 j 09:57	0°♒		983 Jun 29 j 11:34	0°♍
	978 May 25 j 00:06	0°♓		983 Aug 15 j 21:54	0°♎
retrograde	978 Aug 07 j 20:50	28°♓26'13	desc. node	983 Sep 27 j 12:10	28°♎52'17
min. Earth dist.	978 Sep 03 j 12:13	23°♓53'39 0.40074 AU		983 Sep 29 j 02:52	0°♏
greatest brilliancy	978 Sep 09 j 01:17	22°♓12'56 -2.8m	evening set	983 Oct 14 j 06:46	10°♏44'28
opposition	978 Sep 10 j 00:52	21°♓55'01 -4°55'50	max. Earth dist.	983 Oct 29 j 19:52	21°♏59'02 2.44254 AU
direct	978 Oct 10 j 09:39	16°♓24'33		983 Nov 09 j 17:24	0°♐
	978 Nov 30 j 10:55	0°♔			
asc. node	978 Dec 04 j 21:21	2°♔02'54	conjunction	983 Dec 08 j 05:12	21°♔25'58 -0°42'18
	979 Jan 25 j 13:03	0°♕	minimum elong	983 Dec 08 j 03:02	21°♔21'49 0°42'16
	979 Mar 16 j 09:47	0°♊		983 Dec 19 j 09:19	0°♑
	979 May 04 j 03:50	0°♋		984 Jan 26 j 21:12	0°♒
	979 Jun 21 j 10:45	0°♌	morning rise	984 Feb 09 j 15:42	10°♒49'53
evening set	979 Jul 25 j 12:52	21°♌27'48		984 Mar 05 j 01:20	0°♓
	979 Aug 07 j 22:27	0°♍		984 Apr 12 j 19:08	0°♔
max. Earth dist.	979 Aug 24 j 06:18	10°♍29'42 2.64571 AU		984 May 22 j 23:58	0°♕
				984 Jul 04 j 14:00	0°♊
conjunction	979 Sep 09 j 04:55	20°♍51'31 0°53'36	asc. node	984 Jul 26 j 17:52	14°♊44'12
minimum elong	979 Sep 09 j 06:04	20°♍53'24 0°53'36		984 Aug 19 j 22:09	0°♋
	979 Sep 23 j 02:38	0°♎		984 Oct 13 j 13:48	0°♌
morning rise	979 Oct 24 j 14:32	21°♎05'55	retrograde	984 Dec 11 j 22:35	16°♎29'58
	979 Nov 06 j 15:21	0°♏	opposition	985 Jan 21 j 00:30	6°♎46'39 4°33'09

greatest brilliancy	985 Jan 20 j 22:42	6°♌48'27	-1.3m		990 Mar 23 j 16:47	0°♎	
min. Earth dist.	985 Jan 20 j 19:54	6°♌51'15	0.67597 AU	evening set	990 Apr 18 j 19:03	18°♎21'24	
	985 Feb 09 j 01:18	30°♏☾			990 May 05 j 17:27	0°♐	
direct	985 Mar 02 j 15:19	26°♏59'52					
	985 Mar 26 j 02:37	0°♑		conjunction	990 Jun 11 j 01:53	24°♐21'43	0°46'08
	985 Jun 04 j 17:48	0°♒		minimum elong	990 Jun 11 j 00:21	24°♐19'12	0°46'06
	985 Jul 25 j 10:30	0°♓			990 Jun 19 j 15:41	0°♑	
desc. node	985 Aug 14 j 10:38	12°♓57'24		max. Earth dist.	990 Jun 29 j 04:28	6°♑13'42	2.62607 AU
	985 Sep 08 j 13:43	0°♐		morning rise	990 Jul 29 j 19:11	25°♑58'17	
	985 Oct 20 j 07:05	0°♑			990 Aug 05 j 02:39	0°♒	
	985 Nov 28 j 18:39	0°♒			990 Sep 21 j 16:08	0°♓	
evening set	985 Dec 09 j 22:59	8°♒42'09			990 Nov 09 j 06:33	0°♓	
	986 Jan 06 j 00:48	0°♓			990 Dec 29 j 21:34	0°♐	
	986 Feb 13 j 00:57	0°♑			991 Feb 25 j 15:34	0°♑	
				desc. node	991 Apr 06 j 07:03	13°♑14'28	
conjunction	986 Feb 14 j 10:13	1°♑05'20	-1°01'16	retrograde	991 Apr 23 j 03:25	14°♑53'31	
minimum elong	986 Feb 14 j 12:19	1°♑09'27	1°01'16	opposition	991 May 25 j 22:55	8°♑46'07	-2°46'01
	986 Mar 23 j 17:07	0°♒		greatest brilliancy	991 May 26 j 17:39	8°♑31'16	-2.5m
max. Earth dist.	986 Apr 03 j 10:12	8°♒08'06	2.39407 AU	min. Earth dist.	991 Jun 02 j 23:48	6°♑14'00	0.44062 AU
morning rise	986 Apr 24 j 14:51	23°♒57'31		direct	991 Jun 30 j 14:03	1°♑22'24	
	986 May 02 j 20:29	0°♓			991 Sep 13 j 13:50	0°♒	
asc. node	986 Jun 13 j 18:08	29°♓46'30			991 Oct 28 j 05:06	0°♓	
	986 Jun 14 j 01:58	0°♐			991 Dec 08 j 19:54	0°♑	
	986 Jul 28 j 21:54	0°♑			992 Jan 19 j 09:03	0°♒	
	986 Sep 15 j 03:48	0°♒		asc. node	992 Feb 03 j 14:39	10°♒49'30	
	986 Nov 09 j 07:30	0°♓			992 Mar 02 j 01:08	0°♓	
retrograde	987 Jan 16 j 07:12	19°♓53'34			992 Apr 15 j 06:56	0°♐	
opposition	987 Feb 24 j 10:04	10°♓48'46	4°05'07		992 May 31 j 01:01	0°♑	
greatest brilliancy	987 Feb 24 j 22:25	10°♓36'40	-1.4m	evening set	992 Jun 02 j 07:35	1°♑28'13	
min. Earth dist.	987 Feb 28 j 02:22	9°♓22'16	0.65494 AU		992 Jul 16 j 19:26	0°♒	
direct	987 Apr 06 j 19:30	0°♓46'36					
	987 Jun 30 j 02:37	0°♓		conjunction	992 Jul 20 j 01:40	2°♒04'39	1°08'11
desc. node	987 Jul 02 j 09:21	1°♓16'31		minimum elong	992 Jul 20 j 01:14	2°♒03'57	1°08'10
	987 Aug 17 j 20:16	0°♐		max. Earth dist.	992 Jul 22 j 17:43	3°♒46'39	2.67218 AU
	987 Sep 29 j 15:15	0°♑			992 Sep 01 j 21:57	0°♒	
	987 Nov 08 j 10:44	0°♒		morning rise	992 Sep 03 j 03:03	0°♒46'24	
	987 Dec 16 j 20:03	0°♓			992 Oct 18 j 19:02	0°♓	
	988 Jan 23 j 23:40	0°♑			992 Dec 04 j 05:24	0°♐	
evening set	988 Feb 19 j 00:06	20°♑09'56			993 Jan 19 j 09:43	0°♑	
	988 Mar 02 j 21:26	0°♒		desc. node	993 Feb 21 j 07:16	21°♑15'35	
	988 Apr 12 j 07:50	0°♓			993 Mar 06 j 23:52	0°♒	
					993 Apr 25 j 05:26	0°♓	
conjunction	988 Apr 22 j 04:30	7°♓06'32	-0°05'24	retrograde	993 Jul 10 j 18:44	27°♓41'38	
minimum elong	988 Apr 22 j 04:51	7°♓07'09	0°05'24	min. Earth dist.	993 Aug 08 j 00:11	23°♓04'56	0.37551 AU
behind sun begin	988 Apr 21 j 04:58	6°♓24'22		opposition	993 Aug 10 j 10:39	22°♓25'37	-6°43'48
behind sun end	988 Apr 23 j 04:44	7°♓49'54		greatest brilliancy	993 Aug 10 j 00:29	22°♓32'28	-2.9m
asc. node	988 Apr 30 j 17:13	13°♓11'22		direct	993 Sep 08 j 23:14	17°♓30'03	
	988 May 24 j 18:11	0°♐			993 Oct 26 j 13:45	0°♑	
max. Earth dist.	988 May 30 j 03:58	3°♐43'00	2.52721 AU		993 Dec 20 j 01:56	0°♒	
morning rise	988 Jun 18 j 05:07	16°♐37'47		asc. node	993 Dec 21 j 13:36	0°♒54'19	
	988 Jul 08 j 08:37	0°♑			994 Feb 06 j 01:17	0°♓	
	988 Aug 24 j 02:37	0°♒			994 Mar 25 j 06:32	0°♐	
	988 Oct 12 j 07:48	0°♓			994 May 11 j 18:46	0°♑	
	988 Dec 05 j 07:21	0°♓			994 Jun 28 j 11:00	0°♒	
retrograde	989 Feb 25 j 14:30	26°♓42'06		evening set	994 Jul 11 j 02:21	7°♒58'43	
opposition	989 Apr 03 j 10:27	18°♓42'52	2°00'02		994 Aug 14 j 17:32	0°♓	
greatest brilliancy	989 Apr 04 j 00:20	18°♓29'58	-1.8m	max. Earth dist.	994 Aug 14 j 19:50	0°♓03'41	2.66384 AU
min. Earth dist.	989 Apr 10 j 15:10	16°♓02'19	0.56969 AU				
direct	989 May 13 j 17:28	9°♓08'15		conjunction	994 Aug 25 j 18:37	7°♓05'25	1°02'40
desc. node	989 May 19 j 08:11	9°♓20'40		minimum elong	994 Aug 25 j 19:29	7°♓06'48	1°02'40
	989 Jul 17 j 20:34	0°♐			994 Sep 29 j 23:53	0°♓	
	989 Sep 04 j 05:04	0°♑		morning rise	994 Oct 09 j 10:03	6°♓13'12	
	989 Oct 15 j 20:05	0°♒			994 Nov 13 j 21:07	0°♐	
	989 Nov 24 j 03:33	0°♓			994 Dec 27 j 07:58	0°♑	
	990 Jan 01 j 23:59	0°♑		desc. node	995 Jan 09 j 06:12	9°♑06'34	
	990 Feb 10 j 14:04	0°♒			995 Feb 07 j 12:11	0°♒	
asc. node	990 Mar 18 j 15:24	26°♒22'50			995 Mar 20 j 19:18	0°♓	

	995 May 01 j 00:54	0° H			1000 Aug 02 j 10:33	0° L	
	995 Jun 13 j 04:29	0° Y		desc. node	1000 Aug 31 j 02:43	18° $\text{L}59'35$	
	995 Aug 05 j 05:08	0° B			1000 Sep 16 j 02:12	0° M	
retrograde	995 Sep 12 j 03:42	9° $\text{B}00'23$			1000 Oct 27 j 17:19	0° J	
min. Earth dist.	995 Oct 10 j 17:11	3° $\text{B}22'19$	0.47455 AU	evening set	1000 Nov 15 j 06:36	13° $\text{J}55'41$	
opposition	995 Oct 18 j 21:26	0° $\text{B}27'16$	-1°07'03		1000 Dec 06 j 05:40	0° Z	
greatest brilliancy	995 Oct 18 j 13:50	0° $\text{B}34'04$	-2.3m	max. Earth dist.	1000 Dec 29 j 11:14	18° $\text{Z}07'29$	2.37433 AU
	995 Oct 20 j 04:02	30° R^{Y}			1001 Jan 13 j 13:10	0° \approx	
asc. node	995 Nov 08 j 12:04	24° $\text{Y}35'35$					
direct	995 Nov 21 j 04:14	23° $\text{Y}30'42$		conjunction	1001 Jan 16 j 13:48	2° \approx 23'17	-1°04'14
	995 Dec 25 j 08:55	0° B		minimum elong	1001 Jan 16 j 12:54	2° \approx 21'31	1°04'14
	996 Feb 27 j 04:21	0° II			1001 Feb 20 j 13:59	0° H	
	996 Apr 19 j 12:38	0° E		morning rise	1001 Mar 27 j 19:44	27° $\text{H}23'06$	
	996 Jun 08 j 07:34	0° L			1001 Mar 31 j 05:42	0° Y	
	996 Jul 26 j 09:57	0° M			1001 May 10 j 08:13	0° B	
evening set	996 Aug 16 j 10:38	13° $\text{M}28'47$			1001 Jun 21 j 14:34	0° II	
max. Earth dist.	996 Sep 08 j 06:03	28° $\text{M}23'54$	2.60219 AU	asc. node	1001 Jun 30 j 09:35	6° $\text{II}00'53$	
	996 Sep 10 j 16:07	0° L			1001 Aug 05 j 18:20	0° E	
					1001 Sep 24 j 08:15	0° L	
conjunction	996 Oct 01 j 23:44	14° $\text{L}17'12$	0°31'42		1001 Nov 26 j 12:25	0° M	
minimum elong	996 Oct 02 j 00:48	14° $\text{L}19'00$	0°31'41	retrograde	1002 Jan 02 j 05:00	6° $\text{M}58'03$	
	996 Oct 24 j 21:33	0° M			1002 Feb 04 j 15:21	30° R^{L}	
morning rise	996 Nov 18 j 20:16	17° $\text{M}32'54$		opposition	1002 Feb 10 j 19:47	27° $\text{L}35'38$	4°25'38
desc. node	996 Nov 26 j 04:44	22° $\text{M}48'26$		greatest brilliancy	1002 Feb 11 j 03:05	27° $\text{L}28'25$	-1.3m
	996 Dec 06 j 04:00	0° J		min. Earth dist.	1002 Feb 12 j 23:41	26° $\text{L}44'15$	0.67099 AU
	997 Jan 15 j 18:52	0° Z		direct	1002 Mar 24 j 01:53	17° $\text{L}36'04$	
	997 Feb 24 j 06:42	0° \approx			1002 May 14 j 03:06	0° M	
	997 Apr 04 j 08:37	0° H			1002 Jul 10 j 17:48	0° L	
	997 May 14 j 00:13	0° Y		desc. node	1002 Jul 19 j 01:03	5° $\text{L}02'17$	
	997 Jun 24 j 16:55	0° B			1002 Aug 26 j 11:28	0° M	
	997 Aug 10 j 13:50	0° II			1002 Oct 07 j 16:50	0° J	
asc. node	997 Sep 25 j 11:47	21° $\text{II}35'56$			1002 Nov 16 j 07:37	0° Z	
retrograde	997 Oct 24 j 16:14	26° $\text{II}46'17$			1002 Dec 24 j 14:32	0° \approx	
min. Earth dist.	997 Nov 27 j 16:25	19° $\text{II}04'30$	0.59620 AU	evening set	1003 Jan 22 j 06:54	22° \approx 38'29	
opposition	997 Dec 03 j 04:09	16° $\text{II}53'57$	2°49'09		1003 Jan 31 j 15:40	0° H	
greatest brilliancy	997 Dec 02 j 13:35	17° $\text{II}08'24$	-1.7m		1003 Mar 11 j 09:55	0° Y	
direct	998 Jan 09 j 10:37	8° $\text{II}16'09$					
	998 Mar 22 j 14:28	0° E		conjunction	1003 Mar 30 j 01:02	14° $\text{Y}03'01$	-0°30'37
	998 May 17 j 22:08	0° L		minimum elong	1003 Mar 30 j 03:19	14° $\text{Y}07'16$	0°30'35
	998 Jul 07 j 04:28	0° M			1003 Apr 20 j 16:05	0° B	
	998 Aug 23 j 02:22	0° L		max. Earth dist.	1003 May 15 j 09:40	17° $\text{B}44'20$	2.47628 AU
evening set	998 Sep 26 j 03:46	23° $\text{L}00'13$		asc. node	1003 May 18 j 09:02	19° $\text{B}50'05$	
	998 Oct 06 j 05:09	0° M		morning rise	1003 May 30 j 21:53	28° $\text{B}35'16$	
max. Earth dist.	998 Oct 11 j 02:28	3° $\text{M}26'01$	2.49331 AU		1003 Jun 01 j 22:50	0° II	
desc. node	998 Oct 14 j 03:46	5° $\text{M}35'23$			1003 Jul 16 j 12:52	0° E	
					1003 Sep 01 j 15:17	0° L	
conjunction	998 Nov 16 j 13:15	29° $\text{M}43'14$	-0°20'35		1003 Oct 22 j 04:59	0° M	
minimum elong	998 Nov 16 j 12:11	29° $\text{M}41'17$	0°20'35		1003 Dec 21 j 08:23	0° L	
	998 Nov 16 j 22:20	0° J		retrograde	1004 Feb 09 j 09:16	11° $\text{L}46'43$	
	998 Dec 26 j 18:48	0° Z		opposition	1004 Mar 18 j 07:00	3° $\text{L}17'39$	3°02'58
morning rise	999 Jan 13 j 00:45	13° $\text{Z}17'45$		greatest brilliancy	1004 Mar 18 j 23:15	3° $\text{L}02'07$	-1.6m
	999 Feb 03 j 11:26	0° \approx		min. Earth dist.	1004 Mar 24 j 05:07	1° $\text{L}01'55$	0.61012 AU
	999 Mar 13 j 19:31	0° H			1004 Mar 26 j 23:35	30° R^{M}	
	999 Apr 21 j 16:16	0° Y		direct	1004 Apr 28 j 07:13	23° $\text{M}24'39$	
	999 Jun 01 j 00:53	0° B			1004 Jun 01 j 18:41	0° L	
	999 Jul 14 j 00:56	0° II		desc. node	1004 Jun 04 j 23:59	1° $\text{L}09'35$	
asc. node	999 Aug 13 j 11:18	19° $\text{II}35'49$			1004 Jul 31 j 08:31	0° M	
	999 Aug 30 j 20:50	0° E			1004 Sep 14 j 06:58	0° J	
	999 Nov 04 j 18:52	0° L			1004 Oct 24 j 21:15	0° Z	
retrograde	999 Nov 29 j 14:43	3° $\text{L}33'48$			1004 Dec 02 j 16:25	0° \approx	
	999 Dec 22 j 14:40	30° R^{E}			1005 Jan 10 j 03:53	0° H	
min. Earth dist.	1000 Jan 07 j 00:59	24° $\text{E}22'48$	0.66602 AU		1005 Feb 18 j 09:29	0° Y	
opposition	1000 Jan 08 j 18:16	23° $\text{E}41'21$	4°22'22	evening set	1005 Mar 28 j 15:02	28° $\text{Y}10'18$	
greatest brilliancy	1000 Jan 08 j 10:50	23° $\text{E}48'49$	-1.3m		1005 Mar 31 j 03:57	0° B	
direct	1000 Feb 17 j 16:21	14° $\text{E}08'13$		asc. node	1005 Apr 04 j 08:00	2° $\text{B}59'28$	
	1000 Apr 17 j 14:52	0° L			1005 May 12 j 21:18	0° II	
	1000 Jun 14 j 11:13	0° M					

conjunction	1005 May 24 j 07:58	7°II48'06	0°29'30	greatest brilliancy	1010 Sep 24 j 10:16	7°Y31'26	-2.6m
minimum elong	1005 May 24 j 06:36	7°II45'47	0°29'30	opposition	1010 Sep 25 j 07:06	7°Y14'32	-3°30'41
max. Earth dist.	1005 Jun 18 j 14:47	24°II43'47	2.59330 AU	direct	1010 Oct 26 j 14:34	1°Y13'37	
	1005 Jun 26 j 14:39	0°☾		asc. node	1010 Nov 25 j 05:19	6°Y19'43	
morning rise	1005 Jul 14 j 14:45	11°☾44'49			1011 Jan 16 j 17:00	0°X	
	1005 Aug 12 j 01:55	0°Ω			1011 Mar 10 j 03:42	0°II	
	1005 Sep 29 j 01:43	0°♐			1011 Apr 28 j 21:02	0°☾	
	1005 Nov 17 j 23:50	0°♑			1011 Jun 16 j 14:42	0°Ω	
	1006 Jan 11 j 16:49	0°♒		evening set	1011 Aug 02 j 19:46	29°Ω41'40	
retrograde	1006 Mar 29 j 08:18	24°♒05'34			1011 Aug 03 j 07:16	0°♐	
desc. node	1006 Apr 22 j 23:49	20°♒21'03		max. Earth dist.	1011 Aug 29 j 23:01	17°♐10'18	2.63247 AU
opposition	1006 May 02 j 23:14	17°♒07'40	-0°30'51				
greatest brilliancy	1006 May 03 j 03:11	17°♒04'15	-2.2m	conjunction	1011 Sep 17 j 15:55	29°♐26'20	0°46'36
min. Earth dist.	1006 May 11 j 09:49	14°♒13'21	0.49275 AU	minimum elong	1011 Sep 17 j 17:07	29°♐28'18	0°46'36
direct	1006 Jun 10 j 00:06	8°♒34'48			1011 Sep 18 j 12:18	0°♑	
	1006 Aug 12 j 20:49	0°♊			1011 Nov 01 j 22:36	0°♒	
	1006 Sep 28 j 11:40	0°♋		morning rise	1011 Nov 02 j 17:14	0°♒32'08	
	1006 Nov 08 j 16:19	0°♌		desc. node	1011 Dec 13 j 20:34	29°♒28'35	
	1006 Dec 18 j 16:24	0°♍			1011 Dec 14 j 14:06	0°♊	
	1007 Jan 28 j 03:57	0°Y			1012 Jan 24 j 16:28	0°♋	
asc. node	1007 Feb 20 j 05:37	16°Y40'38			1012 Mar 04 j 16:38	0°♌	
	1007 Mar 11 j 00:49	0°X			1012 Apr 13 j 07:34	0°♍	
	1007 Apr 23 j 16:17	0°II			1012 May 23 j 16:07	0°Y	
evening set	1007 May 17 j 19:11	16°II05'00			1012 Jul 05 j 20:41	0°X	
	1007 Jun 08 j 00:32	0°☾			1012 Aug 28 j 05:26	0°II	
				retrograde	1012 Oct 09 j 03:03	10°II16'58	
conjunction	1007 Jul 06 j 05:30	18°☾14'14	1°03'05	asc. node	1012 Oct 12 j 03:47	10°II12'58	
minimum elong	1007 Jul 06 j 04:31	18°☾12'39	1°03'04	min. Earth dist.	1012 Nov 10 j 02:23	3°II19'10	0.55321 AU
max. Earth dist.	1007 Jul 14 j 14:22	23°☾36'19	2.66072 AU	opposition	1012 Nov 16 j 21:38	0°II40'59	1°39'04
	1007 Jul 24 j 14:20	0°Ω		greatest brilliancy	1012 Nov 16 j 10:42	0°II51'36	-1.9m
morning rise	1007 Aug 21 j 06:55	17°Ω37'36			1012 Nov 18 j 16:08	30°R8	
	1007 Sep 09 j 19:01	0°♐		direct	1012 Dec 22 j 18:19	22°X35'45	
	1007 Oct 27 j 03:44	0°♑			1013 Jan 29 j 09:45	0°II	
	1007 Dec 13 j 16:52	0°♒			1013 Apr 03 j 16:28	0°☾	
	1008 Jan 31 j 03:45	0°♊			1013 May 26 j 08:49	0°Ω	
desc. node	1008 Mar 09 j 22:49	22°♊48'18			1013 Jul 14 j 13:10	0°♐	
	1008 Mar 23 j 01:17	0°♋			1013 Aug 30 j 03:02	0°♑	
retrograde	1008 Jun 08 j 09:41	26°♋20'49		evening set	1013 Sep 09 j 13:10	6°♑56'30	
opposition	1008 Jul 08 j 17:15	21°♋20'18	-6°22'22	max. Earth dist.	1013 Sep 26 j 17:51	18°♑35'15	2.54079 AU
greatest brilliancy	1008 Jul 09 j 08:51	21°♋09'44	-2.9m		1013 Oct 13 j 05:58	0°♒	
min. Earth dist.	1008 Jul 11 j 17:53	20°♋31'15	0.38073 AU				
direct	1008 Aug 08 j 15:41	15°♋59'35		conjunction	1013 Oct 28 j 10:09	10°♒41'40	0°01'30
	1008 Sep 27 j 05:15	0°♌		minimum elong	1013 Oct 28 j 10:12	10°♒41'44	0°01'29
	1008 Nov 17 j 13:04	0°♍		behind sun begin	1013 Oct 27 j 13:01	10°♒04'07	
	1009 Jan 01 j 22:28	0°Y		behind sun end	1013 Oct 29 j 07:23	11°♒19'24	
asc. node	1009 Jan 07 j 05:03	3°Y32'09		desc. node	1013 Oct 30 j 19:28	12°♒23'43	
	1009 Feb 15 j 19:31	0°X			1013 Nov 24 j 03:34	0°♊	
	1009 Apr 02 j 11:15	0°II		morning rise	1013 Dec 20 j 02:25	19°♊17'00	
	1009 May 19 j 02:36	0°☾			1014 Jan 03 j 06:14	0°♋	
evening set	1009 Jun 26 j 11:57	24°☾23'41			1014 Feb 11 j 04:59	0°♌	
	1009 Jul 05 j 08:05	0°Ω			1014 Mar 21 j 18:15	0°♍	
max. Earth dist.	1009 Aug 05 j 19:56	20°Ω00'24	2.67351 AU		1014 Apr 29 j 19:32	0°Y	
					1014 Jun 09 j 10:47	0°X	
conjunction	1009 Aug 11 j 15:19	23°Ω42'31	1°07'54		1014 Jul 23 j 04:59	0°II	
minimum elong	1009 Aug 11 j 15:44	23°Ω43'12	1°07'54	asc. node	1014 Aug 30 j 02:27	23°II02'39	
	1009 Aug 21 j 11:35	0°♐			1014 Sep 12 j 01:31	0°☾	
morning rise	1009 Sep 25 j 01:30	22°♐17'06		retrograde	1014 Nov 16 j 02:02	20°☾09'21	
	1009 Oct 06 j 21:49	0°♑		min. Earth dist.	1014 Dec 22 j 22:11	11°☾29'40	0.64625 AU
	1009 Nov 21 j 06:14	0°♒		opposition	1014 Dec 26 j 03:41	10°☾11'51	3°58'43
	1010 Jan 04 j 11:56	0°♊		greatest brilliancy	1014 Dec 25 j 15:40	10°☾23'56	-1.4m
desc. node	1010 Jan 25 j 21:32	14°♊45'39		direct	1015 Feb 03 j 04:51	0°☾56'26	
	1010 Feb 16 j 19:01	0°♋			1015 May 01 j 14:23	0°Ω	
	1010 Mar 31 j 14:56	0°♌			1015 Jun 24 j 02:31	0°♐	
	1010 May 14 j 07:00	0°♍			1015 Aug 11 j 00:36	0°♑	
	1010 Jul 03 j 01:49	0°Y		desc. node	1015 Sep 17 j 18:16	25°♑23'06	
retrograde	1010 Aug 21 j 16:36	14°Y34'08			1015 Sep 24 j 09:20	0°♒	
min. Earth dist.	1010 Sep 17 j 13:51	9°Y44'21	0.42422 AU	evening set	1015 Oct 25 j 13:03	22°♒17'38	

	1015 Nov 05 j 00:23	0°♊			1020 Oct 06 j 20:21	0°♎		
max. Earth dist.	1015 Nov 13 j 05:30	6°♊06'54	2.41452 AU		1020 Nov 27 j 20:43	0°♏		
	1015 Dec 14 j 15:16	0°♐			1021 Feb 01 j 04:21	0°♎		
				retrograde	1021 Mar 08 j 08:09	6°♎20'17		
conjunction	1015 Dec 21 j 22:06	5°♐38'12	-0°52'58		1021 Apr 09 j 18:13	30°♎♏		
minimum elong	1015 Dec 21 j 19:45	5°♐33'37	0°52'57	opposition	1021 Apr 13 j 10:50	28°♏40'30	1°12'51	
	1016 Jan 22 j 01:36	0°♏		greatest brilliancy	1021 Apr 13 j 20:21	28°♏31'49	-1.9m	
morning rise	1016 Feb 26 j 13:48	27°♏57'11		min. Earth dist.	1021 Apr 21 j 05:23	25°♏50'46	0.54391 AU	
	1016 Feb 29 j 04:26	0°♋		desc. node	1021 May 09 j 14:59	20°♏37'43		
	1016 Apr 07 j 20:58	0°♑		direct	1021 May 23 j 02:38	19°♏22'33		
	1016 May 17 j 23:52	0°♌			1021 Jul 05 j 16:36	0°♎		
	1016 Jun 29 j 09:17	0°♍			1021 Aug 27 j 23:24	0°♊		
asc. node	1016 Jul 17 j 02:17	11°♍56'08			1021 Oct 09 j 17:05	0°♐		
	1016 Aug 14 j 02:46	0°♌			1021 Nov 18 j 12:06	0°♏		
	1016 Oct 05 j 02:29	0°♌			1021 Dec 27 j 15:54	0°♋		
retrograde	1016 Dec 19 j 14:43	24°♌14'29			1022 Feb 05 j 11:38	0°♑		
opposition	1017 Jan 28 j 13:39	14°♌37'34	4°33'47	asc. node	1022 Mar 08 j 23:01	22°♑58'39		
greatest brilliancy	1017 Jan 28 j 15:06	14°♌36'06	-1.3m		1022 Mar 18 j 18:55	0°♌		
min. Earth dist.	1017 Jan 29 j 04:58	14°♌22'17	0.67706 AU	evening set	1022 Apr 29 j 19:29	29°♌12'45		
direct	1017 Mar 10 j 11:14	4°♌45'08			1022 Apr 30 j 23:17	0°♍		
	1017 May 28 j 12:12	0°♎			1022 Jun 14 j 23:38	0°♌		
	1017 Jul 19 j 22:16	0°♏						
desc. node	1017 Aug 04 j 17:46	10°♏02'50		conjunction	1022 Jun 20 j 13:09	3°♌38'06	0°53'38	
	1017 Sep 03 j 13:18	0°♎		minimum elong	1022 Jun 20 j 11:45	3°♌35'49	0°53'38	
	1017 Oct 15 j 10:42	0°♊		max. Earth dist.	1022 Jul 05 j 00:39	13°♌02'15	2.64056 AU	
	1017 Nov 23 j 23:13	0°♐			1022 Jul 31 j 10:32	0°♌		
evening set	1017 Dec 25 j 03:55	24°♐25'42		morning rise	1022 Aug 07 j 03:42	4°♌16'53		
	1018 Jan 01 j 05:15	0°♏			1022 Sep 16 j 19:42	0°♎		
	1018 Feb 08 j 05:13	0°♋			1022 Nov 03 j 21:05	0°♏		
					1022 Dec 23 j 02:21	0°♎		
conjunction	1018 Mar 02 j 19:45	17°♋38'33	-0°52'50		1023 Feb 13 j 19:29	0°♊		
minimum elong	1018 Mar 02 j 22:49	17°♋44'28	0°52'49	desc. node	1023 Mar 27 j 14:30	19°♊34'01		
	1018 Mar 18 j 21:23	0°♑		retrograde	1023 May 09 j 04:09	28°♊48'47		
max. Earth dist.	1018 Apr 22 j 23:24	26°♑17'47	2.42252 AU	opposition	1023 Jun 09 j 19:24	23°♊10'41	-4°11'49	
	1018 Apr 28 j 00:47	0°♌		greatest brilliancy	1023 Jun 10 j 19:22	22°♊52'47	-2.6m	
morning rise	1018 May 08 j 18:51	7°♌47'49		min. Earth dist.	1023 Jun 16 j 18:53	21°♊05'57	0.41434 AU	
asc. node	1018 Jun 04 j 00:25	26°♌22'44		direct	1023 Jul 13 j 20:00	16°♊33'11		
	1018 Jun 09 j 05:38	0°♍			1023 Aug 30 j 14:35	0°♐		
	1018 Jul 23 j 21:38	0°♌			1023 Oct 19 j 15:59	0°♏		
	1018 Sep 09 j 14:02	0°♌			1023 Dec 01 j 22:49	0°♋		
	1018 Nov 01 j 10:22	0°♎			1024 Jan 13 j 09:42	0°♑		
retrograde	1019 Jan 24 j 17:59	27°♎56'23		asc. node	1024 Jan 24 j 21:45	8°♑03'40		
opposition	1019 Mar 04 j 11:39	19°♎02'55	3°46'37		1024 Feb 25 j 15:35	0°♌		
greatest brilliancy	1019 Mar 05 j 02:03	18°♎48'54	-1.4m		1024 Apr 10 j 06:52	0°♍		
min. Earth dist.	1019 Mar 08 j 23:11	17°♎18'19	0.64187 AU		1024 May 26 j 06:50	0°♌		
direct	1019 Apr 14 j 19:38	9°♎01'56		evening set	1024 Jun 11 j 07:36	10°♌18'00		
	1019 Jun 21 j 22:50	0°♏			1024 Jul 12 j 04:14	0°♌		
desc. node	1019 Jun 22 j 16:36	0°♏22'45						
	1019 Aug 11 j 21:38	0°♎		conjunction	1024 Jul 28 j 09:00	10°♌18'36	1°09'14	
	1019 Sep 24 j 07:13	0°♊		minimum elong	1024 Jul 28 j 08:54	10°♌18'26	1°09'13	
	1019 Nov 03 j 08:23	0°♐		max. Earth dist.	1024 Jul 28 j 00:25	10°♌04'57	2.67490 AU	
	1019 Dec 11 j 20:22	0°♏			1024 Aug 28 j 06:30	0°♎		
	1020 Jan 19 j 01:50	0°♋		morning rise	1024 Sep 11 j 01:57	8°♎50'06		
	1020 Feb 27 j 01:11	0°♑			1024 Oct 13 j 23:00	0°♏		
evening set	1020 Mar 04 j 17:31	5°♑02'29			1024 Nov 28 j 22:54	0°♎		
	1020 Apr 07 j 13:02	0°♌			1025 Jan 13 j 07:23	0°♊		
asc. node	1020 Apr 20 j 23:20	9°♌38'39		desc. node	1025 Feb 11 j 13:44	19°♊29'06		
					1025 Feb 27 j 08:57	0°♐		
conjunction	1020 May 04 j 13:52	19°♌15'47	0°08'29		1025 Apr 14 j 04:12	0°♏		
minimum elong	1020 May 04 j 13:20	19°♌14'52	0°08'29		1025 Jun 04 j 05:11	0°♋		
behind sun begin	1020 May 03 j 16:44	18°♌38'44		retrograde	1025 Jul 27 j 03:51	15°♋45'19		
behind sun end	1020 May 05 j 09:57	19°♌50'58		min. Earth dist.	1025 Aug 23 j 03:05	11°♋18'06	0.38606 AU	
	1020 May 20 j 00:38	0°♍		greatest brilliancy	1025 Aug 27 j 06:32	10°♋07'01	-2.8m	
max. Earth dist.	1020 Jun 06 j 23:20	12°♍14'37	2.55274 AU	opposition	1025 Aug 28 j 03:02	9°♋52'18	-5°53'53	
morning rise	1020 Jun 28 j 07:03	26°♍29'31		direct	1025 Sep 26 j 22:49	4°♋42'27		
	1020 Jul 03 j 14:45	0°♌			1025 Dec 09 j 16:53	0°♑		
	1020 Aug 19 j 04:50	0°♌		asc. node	1025 Dec 11 j 20:44	1°♑10'28		

	1026 Jan 30 j 01:42	0°♄		morning rise	1031 Jan 28 j 03:01	28°♄48'52	
	1026 Mar 19 j 13:55	0°♂			1031 Jan 29 j 15:19	0°♂	
	1026 May 06 j 17:09	0°♂			1031 Mar 08 j 20:54	0°♂	
	1026 Jun 23 j 17:07	0°♂			1031 Apr 16 j 15:10	0°♂	
evening set	1026 Jul 19 j 09:06	16°♂10'17			1031 May 26 j 20:02	0°♄	
	1026 Aug 10 j 02:50	0°♂			1031 Jul 08 j 12:02	0°♂	
max. Earth dist.	1026 Aug 20 j 05:31	6°♂29'15	2.65478 AU	asc. node	1031 Aug 03 j 17:10	17°♂15'23	
					1031 Aug 24 j 06:00	0°♂	
conjunction	1026 Sep 03 j 00:02	15°♂22'59	0°57'51		1031 Oct 20 j 12:10	0°♂	
minimum elong	1026 Sep 03 j 01:05	15°♂24'41	0°57'50	retrograde	1031 Dec 07 j 06:45	11°♂29'26	
	1026 Sep 25 j 08:27	0°♂		opposition	1032 Jan 16 j 10:00	1°♂41'22	4°30'09
morning rise	1026 Oct 17 j 23:48	15°♂03'19		greatest brilliancy	1032 Jan 16 j 05:34	1°♂45'49	-1.3m
	1026 Nov 09 j 01:38	0°♂		min. Earth dist.	1032 Jan 15 j 12:37	2°♂02'49	0.67289 AU
	1026 Dec 22 j 05:00	0°♄			1032 Jan 20 j 15:50	30°♂	
desc. node	1026 Dec 30 j 12:08	5°♄53'19		direct	1032 Feb 25 j 18:06	22°♂00'17	
	1027 Feb 01 j 23:03	0°♄			1032 Apr 05 j 22:47	0°♂	
	1027 Mar 14 j 17:06	0°♂			1032 Jun 08 j 06:35	0°♂	
	1027 Apr 24 j 05:03	0°♂			1032 Jul 28 j 05:46	0°♂	
	1027 Jun 04 j 22:01	0°♂		desc. node	1032 Aug 21 j 09:28	15°♂47'22	
	1027 Jul 21 j 19:09	0°♄			1032 Sep 11 j 05:22	0°♂	
retrograde	1027 Sep 22 j 21:57	21°♄26'59			1032 Oct 22 j 23:00	0°♄	
min. Earth dist.	1027 Oct 22 j 16:34	15°♄19'17	0.50340 AU	evening set	1032 Nov 28 j 19:07	27°♄54'58	
asc. node	1027 Oct 29 j 20:18	12°♄40'05			1032 Dec 01 j 11:48	0°♄	
opposition	1027 Oct 30 j 12:29	12°♄25'02	0°02'05		1033 Jan 08 j 18:48	0°♂	
greatest brilliancy	1026 May 01 j 03:30	26°♂31'42	1.5m				
direct	1027 Dec 03 j 18:19	5°♄01'19		conjunction	1033 Feb 01 j 15:34	18°♂51'23	-1°04'29
	1028 Feb 18 j 18:38	0°♂		minimum elong	1033 Feb 01 j 16:24	18°♂53'02	1°04'29
	1028 Apr 13 j 14:42	0°♂			1033 Feb 15 j 19:01	0°♂	
	1028 Jun 03 j 05:45	0°♂		max. Earth dist.	1033 Mar 05 j 05:02	13°♂37'31	2.37605 AU
	1028 Jul 21 j 16:35	0°♂			1033 Mar 26 j 10:15	0°♂	
evening set	1028 Aug 24 j 23:32	22°♂02'53		morning rise	1033 Apr 12 j 21:56	13°♂15'30	
	1028 Sep 06 j 01:30	0°♂			1033 May 05 j 11:52	0°♄	
max. Earth dist.	1028 Sep 14 j 13:45	5°♂39'45	2.58218 AU		1033 Jun 16 j 16:03	0°♂	
				asc. node	1033 Jun 20 j 17:13	2°♂47'21	
conjunction	1028 Oct 11 j 04:17	23°♂42'45	0°21'31		1033 Jul 31 j 12:56	0°♂	
minimum elong	1028 Oct 11 j 05:06	23°♂44'09	0°21'30		1033 Sep 18 j 04:14	0°♂	
	1028 Oct 20 j 06:18	0°♂			1033 Nov 14 j 11:19	0°♂	
desc. node	1028 Nov 16 j 11:59	19°♂14'08		retrograde	1034 Jan 10 j 05:10	14°♂47'45	
morning rise	1028 Nov 29 j 10:41	28°♂34'47		opposition	1034 Feb 18 j 13:41	5°♂34'28	4°15'03
	1028 Dec 01 j 09:33	0°♄		greatest brilliancy	1034 Feb 18 j 23:53	5°♂24'25	-1.3m
	1029 Jan 10 j 19:52	0°♄		min. Earth dist.	1034 Feb 21 j 13:20	4°♂23'52	0.66344 AU
	1029 Feb 19 j 02:25	0°♂			1034 Mar 05 j 13:24	30°♂	
	1029 Mar 29 j 22:54	0°♂		direct	1034 Mar 31 j 22:10	25°♂32'52	
	1029 May 08 j 07:49	0°♂			1034 Apr 29 j 13:51	0°♂	
	1029 Jun 18 j 11:39	0°♄			1034 Jul 04 j 03:49	0°♂	
	1029 Aug 02 j 17:15	0°♂		desc. node	1034 Jul 09 j 08:05	3°♂00'29	
asc. node	1029 Sep 15 j 18:44	23°♂49'08			1034 Aug 21 j 00:32	0°♂	
	1029 Oct 01 j 09:48	0°♂			1034 Oct 02 j 14:30	0°♄	
retrograde	1029 Nov 02 j 01:13	5°♂53'55			1034 Nov 11 j 08:40	0°♄	
	1029 Dec 01 j 11:48	30°♂			1034 Dec 19 j 17:01	0°♂	
min. Earth dist.	1029 Dec 07 j 02:53	27°♂50'11	0.61671 AU		1035 Jan 26 j 19:11	0°♂	
opposition	1029 Dec 11 j 19:50	25°♂57'27	3°19'54	evening set	1035 Feb 07 j 02:26	8°♂49'27	
greatest brilliancy	1029 Dec 11 j 05:13	26°♂12'03	-1.6m		1035 Mar 06 j 14:36	0°♂	
direct	1030 Jan 18 j 18:58	17°♂04'43					
	1030 Mar 12 j 13:10	0°♂		conjunction	1035 Apr 13 j 01:59	27°♂56'23	-0°16'09
	1030 May 11 j 21:00	0°♂		minimum elong	1035 Apr 13 j 03:09	27°♂58'32	0°16'09
	1030 Jul 02 j 02:13	0°♂			1035 Apr 15 j 21:50	0°♄	
	1030 Aug 18 j 08:15	0°♂		asc. node	1035 May 08 j 16:22	16°♄20'17	
	1030 Oct 01 j 13:37	0°♂		max. Earth dist.	1035 May 25 j 00:22	27°♄47'00	2.50503 AU
desc. node	1030 Oct 04 j 11:14	2°♂02'03			1035 May 28 j 05:11	0°♂	
evening set	1030 Oct 06 j 04:46	3°♂15'06		morning rise	1035 Jun 11 j 04:13	9°♂34'18	
max. Earth dist.	1030 Oct 20 j 22:54	13°♂44'40	2.46555 AU		1035 Jul 11 j 17:44	0°♂	
	1030 Nov 12 j 06:28	0°♄			1035 Aug 27 j 13:35	0°♂	
					1035 Oct 16 j 05:14	0°♂	
conjunction	1030 Nov 28 j 09:56	12°♄01'49	-0°33'14		1035 Dec 11 j 00:43	0°♂	
minimum elong	1030 Nov 28 j 08:11	11°♄58'32	0°33'13	retrograde	1036 Feb 18 j 23:04	20°♄35'06	
	1030 Dec 22 j 01:11	0°♄		opposition	1036 Mar 27 j 07:14	12°♄21'31	2°28'55

greatest brilliancy	1036 Mar 27 j 22:37	12°♄07'00	-1.7m	evening set	1041 Jul 04 j 21:44	2°♄40'24	
min. Earth dist.	1036 Apr 02 j 22:30	9°♄51'24	0.58894 AU	max. Earth dist.	1041 Aug 11 j 01:46	26°♄16'37	2.66921 AU
direct	1036 May 06 j 22:59	2°♄37'07			1041 Aug 16 j 21:34	0°♄	
desc. node	1036 May 26 j 07:13	4°♄53'11					
	1036 Jul 23 j 12:48	0°♄		conjunction	1041 Aug 19 j 17:31	1°♄48'44	1°05'18
	1036 Sep 08 j 04:07	0°♄		minimum elong	1041 Aug 19 j 18:13	1°♄49'52	1°05'18
	1036 Oct 19 j 07:57	0°♄			1041 Oct 02 j 06:02	0°♄	
	1036 Nov 27 j 09:28	0°♄		morning rise	1041 Oct 03 j 04:54	0°♄37'29	
	1037 Jan 05 j 01:06	0°♄			1041 Nov 16 j 08:47	0°♄	
	1037 Feb 13 j 10:18	0°♄			1041 Dec 30 j 03:59	0°♄	
asc. node	1037 Mar 25 j 14:34	29°♄28'58		desc. node	1042 Jan 16 j 04:59	11°♄53'58	
	1037 Mar 26 j 07:52	0°♄			1042 Feb 10 j 19:35	0°♄	
evening set	1037 Apr 09 j 22:31	10°♄23'28			1042 Mar 24 j 16:39	0°♄	
	1037 May 08 j 03:55	0°♄			1042 May 05 j 18:00	0°♄	
					1042 Jun 19 j 14:49	0°♄	
conjunction	1037 Jun 03 j 15:52	17°♄53'57	0°39'40	retrograde	1042 Sep 03 j 08:18	29°♄23'39	
minimum elong	1037 Jun 03 j 14:20	17°♄51'23	0°39'40	min. Earth dist.	1042 Oct 01 j 00:23	24°♄08'27	0.45132 AU
	1037 Jun 21 j 22:37	0°♄		opposition	1042 Oct 09 j 04:36	21°♄20'06	-2°05'43
max. Earth dist.	1037 Jun 24 j 20:59	1°♄55'27	2.61239 AU	greatest brilliancy	1042 Oct 08 j 14:48	21°♄32'01	-2.5m
morning rise	1037 Jul 23 j 10:13	20°♄26'48		direct	1042 Nov 10 j 15:06	14°♄47'35	
	1037 Aug 07 j 08:41	0°♄		asc. node	1042 Nov 15 j 11:15	14°♄56'47	
	1037 Sep 24 j 01:27	0°♄			1043 Jan 05 j 05:42	0°♄	
	1037 Nov 12 j 03:14	0°♄			1043 Mar 03 j 08:00	0°♄	
	1038 Jan 03 j 02:59	0°♄			1043 Apr 23 j 09:27	0°♄	
	1038 Mar 09 j 10:26	0°♄			1043 Jun 11 j 16:53	0°♄	
retrograde	1038 Apr 11 j 19:24	5°♄52'56			1043 Jul 29 j 15:23	0°♄	
desc. node	1038 Apr 13 j 05:46	5°♄52'11		evening set	1043 Aug 11 j 03:32	7°♄59'41	
	1038 May 13 j 13:19	30°♄		max. Earth dist.	1043 Sep 04 j 19:20	24°♄00'01	2.61680 AU
opposition	1038 May 15 j 11:33	29°♄22'04	-1°44'25		1043 Sep 13 j 21:50	0°♄	
greatest brilliancy	1038 May 16 j 00:15	29°♄11'34	-2.4m				
min. Earth dist.	1038 May 23 j 21:48	26°♄35'42	0.46371 AU	conjunction	1043 Sep 26 j 07:19	8°♄14'59	0°38'24
direct	1038 Jun 21 j 07:29	21°♄24'33		minimum elong	1043 Sep 26 j 08:28	8°♄16'55	0°38'22
	1038 Jul 28 j 20:42	0°♄			1043 Oct 28 j 06:31	0°♄	
	1038 Sep 20 j 04:22	0°♄		morning rise	1043 Nov 12 j 05:51	10°♄25'57	
	1038 Nov 01 j 22:34	0°♄		desc. node	1043 Dec 04 j 03:38	25°♄58'45	
	1038 Dec 12 j 16:47	0°♄			1043 Dec 09 j 17:47	0°♄	
	1039 Jan 22 j 16:23	0°♄			1044 Jan 19 j 14:25	0°♄	
asc. node	1039 Feb 10 j 13:46	13°♄33'31			1044 Feb 28 j 07:45	0°♄	
	1039 Mar 05 j 21:51	0°♄			1044 Apr 07 j 14:45	0°♄	
	1039 Apr 18 j 19:41	0°♄			1044 May 17 j 12:00	0°♄	
evening set	1039 May 27 j 08:49	25°♄27'52			1044 Jun 28 j 15:03	0°♄	
	1039 Jun 03 j 08:04	0°♄			1044 Aug 16 j 03:38	0°♄	
				asc. node	1044 Oct 02 j 10:32	18°♄45'09	
conjunction	1039 Jul 14 j 19:18	26°♄41'13	1°06'32	retrograde	1044 Oct 18 j 04:17	20°♄23'30	
minimum elong	1039 Jul 14 j 18:37	26°♄40'09	1°06'32	min. Earth dist.	1044 Nov 20 j 07:06	13°♄00'55	0.57788 AU
	1039 Jul 19 j 23:47	0°♄		opposition	1044 Nov 26 j 09:52	10°♄36'38	2°22'44
max. Earth dist.	1039 Jul 19 j 23:31	29°♄59'33	2.66811 AU	greatest brilliancy	1044 Nov 25 j 20:00	10°♄50'16	-1.8m
morning rise	1039 Aug 29 j 05:55	25°♄37'44		direct	1045 Jan 02 j 01:38	2°♄12'33	
	1039 Sep 05 j 02:53	0°♄			1045 Mar 27 j 05:15	0°♄	
	1039 Oct 22 j 04:45	0°♄			1045 May 20 j 19:23	0°♄	
	1039 Dec 08 j 01:58	0°♄			1045 Jul 09 j 14:54	0°♄	
	1040 Jan 24 j 02:41	0°♄			1045 Aug 25 j 10:22	0°♄	
desc. node	1040 Feb 29 j 05:34	22°♄34'56		evening set	1045 Sep 18 j 20:26	16°♄22'23	
	1040 Mar 12 j 10:01	0°♄		max. Earth dist.	1045 Oct 04 j 15:20	27°♄14'08	2.51521 AU
	1040 May 05 j 22:32	0°♄			1045 Oct 08 j 14:33	0°♄	
retrograde	1040 Jun 26 j 22:48	14°♄11'57		desc. node	1045 Oct 21 j 02:30	8°♄48'09	
opposition	1040 Jul 27 j 02:05	9°♄11'49	-6°52'54				
greatest brilliancy	1040 Jul 27 j 03:55	9°♄10'36	-2.9m	conjunction	1045 Nov 07 j 23:53	21°♄38'20	-0°11'04
min. Earth dist.	1040 Jul 27 j 02:48	9°♄11'21	0.37382 AU	minimum elong	1045 Nov 07 j 23:20	21°♄37'21	0°11'04
direct	1040 Aug 25 j 20:56	4°♄13'58		behind sun begin	1045 Nov 07 j 06:54	21°♄07'34	
	1040 Nov 06 j 11:02	0°♄		behind sun end	1045 Nov 08 j 15:47	22°♄07'10	
	1040 Dec 25 j 09:41	0°♄			1045 Nov 19 j 10:40	0°♄	
asc. node	1040 Dec 28 j 12:53	2°♄00'31			1045 Dec 29 j 10:43	0°♄	
	1041 Feb 09 j 17:36	0°♄		morning rise	1046 Jan 02 j 03:43	2°♄50'08	
	1041 Mar 28 j 03:41	0°♄			1046 Feb 06 j 06:22	0°♄	
	1041 May 14 j 05:15	0°♄			1046 Mar 16 j 16:32	0°♄	
	1041 Jun 30 j 16:17	0°♄			1046 Apr 24 j 14:36	0°♄	

	1046 Jun 04 j 00:24	0°♄			1051 Aug 05 j 10:45	0°♍		
	1046 Jul 17 j 04:59	0°♅			1051 Sep 18 j 16:42	0°♎		
asc. node	1046 Aug 20 j 10:20	21°♅38'16			1051 Oct 29 j 01:45	0°♏		
	1046 Sep 03 j 21:06	0°♐			1051 Dec 06 j 17:50	0°♑		
retrograde	1046 Nov 23 j 21:26	28°♐23'30			1052 Jan 14 j 02:09	0°♒		
min. Earth dist.	1046 Dec 31 j 14:48	19°♐26'24	0.65838 AU		1052 Feb 22 j 04:09	0°♓		
opposition	1047 Jan 03 j 00:50	18°♐28'07	4°14'18	evening set	1052 Mar 18 j 14:08	18°♓56'24		
greatest brilliancy	1047 Jan 02 j 15:06	18°♐37'53	-1.4m		1052 Apr 02 j 18:26	0°♈		
direct	1047 Feb 11 j 14:22	9°♐02'30		asc. node	1052 Apr 11 j 07:15	6°♈08'06		
	1047 Apr 23 j 16:12	0°♑			1052 May 15 j 07:48	0°♉		
	1047 Jun 18 j 11:21	0°♒						
	1047 Aug 06 j 00:49	0°♓		conjunction	1052 May 16 j 01:49	0°♉30'58	0°21'05	
desc. node	1047 Sep 08 j 01:18	21°♓59'58		minimum elong	1052 May 16 j 00:42	0°♉29'03	0°21'04	
	1047 Sep 19 j 15:03	0°♍		max. Earth dist.	1052 Jun 13 j 22:56	20°♉04'30	2.57607 AU	
	1047 Oct 31 j 07:19	0°♎			1052 Jun 28 j 22:20	0°♐		
evening set	1047 Nov 06 j 11:42	4°♎35'50		morning rise	1052 Jul 07 j 18:34	5°♐47'54		
max. Earth dist.	1047 Dec 03 j 00:36	24°♎42'16	2.38921 AU		1052 Aug 14 j 09:34	0°♑		
	1047 Dec 09 j 21:38	0°♏			1052 Oct 01 j 14:29	0°♒		
					1052 Nov 21 j 06:02	0°♓		
conjunction	1048 Jan 05 j 13:15	20°♏46'33	-1°00'50		1053 Jan 17 j 19:50	0°♍		
minimum elong	1048 Jan 05 j 11:23	20°♏42'54	1°00'49	retrograde	1053 Mar 19 j 19:32	16°♍33'17		
	1048 Jan 17 j 06:36	0°♑		opposition	1053 Apr 24 j 03:53	9°♍15'26	0°17'03	
	1048 Feb 24 j 07:58	0°♒		greatest brilliancy	1053 Apr 24 j 06:25	9°♍13'12	-2.1m	
morning rise	1048 Mar 14 j 17:12	15°♒08'55		desc. node	1053 Apr 29 j 22:32	7°♍12'07		
	1048 Apr 02 j 23:19	0°♓		min. Earth dist.	1053 May 02 j 09:55	6°♍20'21	0.51613 AU	
	1048 May 13 j 00:42	0°♈		direct	1053 Jun 02 j 00:25	0°♍19'46		
	1048 Jun 24 j 06:33	0°♉			1053 Aug 19 j 13:05	0°♎		
asc. node	1048 Jul 07 j 08:56	8°♉55'15			1053 Oct 03 j 01:31	0°♏		
	1048 Aug 08 j 13:21	0°♐			1053 Nov 12 j 13:12	0°♑		
	1048 Sep 27 j 20:19	0°♑			1053 Dec 22 j 02:39	0°♒		
	1048 Dec 08 j 16:18	0°♒			1054 Jan 31 j 05:45	0°♓		
retrograde	1048 Dec 27 j 09:12	2°♒00'22		asc. node	1054 Feb 27 j 05:11	19°♓37'00		
	1049 Jan 13 j 21:08	30°♒♑			1054 Mar 13 j 19:05	0°♈		
opposition	1049 Feb 05 j 04:02	22°♑30'58	4°30'22		1054 Apr 26 j 04:12	0°♉		
greatest brilliancy	1049 Feb 05 j 08:44	22°♑26'18	-1.3m	evening set	1054 May 10 j 06:39	9°♉29'14		
min. Earth dist.	1049 Feb 06 j 15:10	21°♑56'03	0.67496 AU		1054 Jun 10 j 07:47	0°♐		
direct	1049 Mar 18 j 07:01	12°♑34'13						
	1049 May 19 j 23:30	0°♒		conjunction	1054 Jun 29 j 15:20	12°♐32'48	0°59'39	
	1049 Jul 14 j 01:44	0°♓		minimum elong	1054 Jun 29 j 14:09	12°♐30'54	0°59'38	
desc. node	1049 Jul 25 j 23:49	7°♓22'47		max. Earth dist.	1054 Jul 10 j 14:08	19°♐36'18	2.65280 AU	
	1049 Aug 29 j 09:07	0°♍			1054 Jul 26 j 19:32	0°♑		
	1049 Oct 10 j 12:11	0°♎		morning rise	1054 Aug 15 j 07:14	12°♑24'48		
	1049 Nov 19 j 02:55	0°♏			1054 Sep 12 j 01:31	0°♒		
	1049 Dec 27 j 09:43	0°♑			1054 Oct 29 j 16:51	0°♓		
evening set	1050 Jan 09 j 21:09	10°♑39'10			1054 Dec 16 j 21:24	0°♍		
	1050 Feb 03 j 09:57	0°♒			1055 Feb 04 j 19:15	0°♎		
	1050 Mar 14 j 02:29	0°♓		desc. node	1055 Mar 17 j 21:32	22°♎29'36		
					1055 Apr 02 j 15:34	0°♏		
conjunction	1050 Mar 18 j 12:00	3°♓20'55	-0°40'58	retrograde	1055 May 26 j 06:46	14°♏07'48		
minimum elong	1050 Mar 18 j 14:56	3°♓26'28	0°40'57	opposition	1055 Jun 26 j 01:25	8°♏54'21	-5°32'51	
	1050 Apr 23 j 06:07	0°♈		greatest brilliancy	1055 Jun 27 j 00:04	8°♏38'21	-2.8m	
max. Earth dist.	1050 May 06 j 23:57	9°♈56'56	2.45218 AU	min. Earth dist.	1055 Jul 01 j 03:42	7°♏28'20	0.39294 AU	
morning rise	1050 May 21 j 17:03	20°♈24'42		direct	1055 Jul 28 j 07:38	3°♏02'26		
asc. node	1050 May 25 j 07:56	22°♈57'27			1055 Oct 08 j 21:06	0°♑		
	1050 Jun 04 j 10:28	0°♉			1055 Nov 24 j 06:23	0°♒		
	1050 Jul 18 j 23:35	0°♐			1056 Jan 07 j 01:06	0°♓		
	1050 Sep 04 j 05:40	0°♑		asc. node	1056 Jan 15 j 04:15	5°♓34'47		
	1050 Oct 25 j 12:32	0°♒			1056 Feb 20 j 01:31	0°♈		
	1050 Dec 29 j 18:01	0°♓			1056 Apr 05 j 04:22	0°♉		
retrograde	1051 Feb 02 j 12:56	6°♓12'56			1056 May 21 j 11:43	0°♐		
	1051 Mar 06 j 06:38	30°♓♒		evening set	1056 Jun 20 j 02:18	18°♐54'16		
opposition	1051 Mar 12 j 20:07	27°♒32'13	3°23'04		1056 Jul 07 j 13:11	0°♑		
greatest brilliancy	1051 Mar 13 j 11:48	27°♒17'05	-1.5m	max. Earth dist.	1056 Aug 02 j 05:39	16°♑19'47	2.67526 AU	
min. Earth dist.	1051 Mar 18 j 02:32	25°♒30'20	0.62547 AU					
direct	1051 Apr 23 j 00:32	17°♒34'43		conjunction	1056 Aug 05 j 13:54	18°♑27'30	1°08'56	
	1051 Jun 11 j 15:11	0°♓		minimum elong	1056 Aug 05 j 14:08	18°♑27'51	1°08'55	
desc. node	1051 Jun 12 j 22:45	0°♓34'44			1056 Aug 23 j 16:02	0°♒		

morning rise	1056 Sep 19 j 01:23	16°♎56'33		asc. node	1061 Sep 06 j 01:39	24°♊10'47	
	1056 Oct 09 j 05:17	0°♊			1061 Sep 17 j 19:13	0°♊	
	1056 Nov 23 j 20:38	0°♌		retrograde	1061 Nov 10 j 03:55	14°♊39'04	
	1057 Jan 07 j 13:33	0°♈		min. Earth dist.	1061 Dec 16 j 05:38	6°♊15'14	0.63419 AU
desc. node	1057 Feb 01 j 20:26	17°♈11'59		opposition	1061 Dec 20 j 03:38	4°♊41'04	3°44'40
	1057 Feb 20 j 13:27	0°♊		greatest brilliancy	1061 Dec 19 j 14:02	4°♊54'42	-1.5m
	1057 Apr 05 j 10:14	0°♌			1062 Jan 01 j 17:08	30°♌♊	
	1057 May 21 j 02:39	0°♈		direct	1062 Jan 27 j 18:07	25°♊35'16	
	1057 Jul 21 j 10:53	0°♎			1062 Feb 25 j 12:25	0°♊	
retrograde	1057 Aug 11 j 03:13	2°♎54'51			1062 May 05 j 07:46	0°♊	
	1057 Aug 31 j 20:33	30°♌♈			1062 Jun 26 j 19:24	0°♎	
min. Earth dist.	1057 Sep 06 j 17:04	28°♈20'26	0.40480 AU		1062 Aug 13 j 11:38	0°♊	
opposition	1057 Sep 13 j 13:36	26°♈14'34	-4°36'37	desc. node	1062 Sep 24 j 17:06	28°♊30'41	
greatest brilliancy	1057 Sep 12 j 14:22	26°♈32'24	-2.7m		1062 Sep 26 j 20:18	0°♌	
direct	1057 Oct 14 j 01:41	20°♈38'38		evening set	1062 Oct 16 j 21:59	14°♌13'35	
	1057 Nov 24 j 07:38	0°♎		max. Earth dist.	1062 Nov 01 j 20:40	25°♌48'25	2.43710 AU
asc. node	1057 Dec 02 j 04:32	3°♎18'46			1062 Nov 07 j 13:18	0°♈	
	1058 Jan 22 j 05:13	0°♊					
	1058 Mar 13 j 14:16	0°♊		conjunction	1062 Dec 11 j 07:08	25°♈24'27	-0°45'07
	1058 May 01 j 12:52	0°♊		minimum elong	1062 Dec 11 j 04:53	25°♈20'09	0°45'07
	1058 Jun 18 j 22:19	0°♊			1062 Dec 17 j 06:45	0°♊	
evening set	1058 Jul 27 j 15:34	24°♊21'42			1063 Jan 24 j 19:13	0°♌	
	1058 Aug 05 j 12:05	0°♎		morning rise	1063 Feb 13 j 09:13	15°♌24'16	
max. Earth dist.	1058 Aug 25 j 18:45	13°♎01'48	2.64354 AU		1063 Mar 03 j 23:06	0°♈	
					1063 Apr 11 j 15:42	0°♎	
conjunction	1058 Sep 11 j 07:52	23°♎48'00	0°51'45		1063 May 21 j 18:13	0°♊	
minimum elong	1058 Sep 11 j 09:02	23°♎49'54	0°51'44		1063 Jul 03 j 04:13	0°♊	
	1058 Sep 20 j 18:09	0°♊		asc. node	1063 Jul 25 j 01:38	14°♊38'49	
morning rise	1058 Oct 26 j 19:38	24°♊10'15			1063 Aug 18 j 04:14	0°♊	
	1058 Nov 04 j 08:21	0°♌			1063 Oct 10 j 14:55	0°♊	
	1058 Dec 17 j 05:42	0°♈		retrograde	1063 Dec 14 j 22:03	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 15:15	0°♊		greatest brilliancy	1064 Jan 23 j 22:17	9°♊36'28	-1.3m
	1059 Mar 08 j 23:02	0°♌		min. Earth dist.	1064 Jan 23 j 21:59	9°♊36'46	0.67647 AU
	1059 Apr 17 j 21:47	0°♈			1064 Feb 27 j 21:16	30°♌♊	
	1059 May 28 j 17:05	0°♎		direct	1064 Mar 04 j 15:55	29°♊47'28	
	1059 Jul 11 j 22:23	0°♊			1064 Mar 10 j 14:17	0°♊	
	1059 Sep 11 j 21:38	0°♊			1064 Jun 01 j 12:14	0°♎	
retrograde	1059 Oct 02 j 22:39	2°♊56'22			1064 Jul 22 j 20:27	0°♊	
asc. node	1059 Oct 20 j 03:12	0°♊45'52		desc. node	1064 Aug 11 j 16:25	12°♊45'06	
	1059 Oct 23 j 00:21	30°♌♊			1064 Sep 06 j 06:08	0°♌	
min. Earth dist.	1059 Nov 02 j 23:05	26°♊20'18	0.53155 AU		1064 Oct 18 j 02:58	0°♈	
opposition	1059 Nov 10 j 06:40	23°♊32'48	1°01'37		1064 Nov 26 j 16:22	0°♊	
greatest brilliancy	1059 Nov 09 j 23:12	23°♊39'56	-2.0m	evening set	1064 Dec 13 j 08:12	12°♊58'48	
direct	1059 Dec 15 j 10:05	15°♊45'01			1065 Jan 03 j 23:06	0°♌	
	1060 Feb 08 j 05:54	0°♊			1065 Feb 10 j 22:51	0°♈	
	1060 Apr 07 j 06:44	0°♊					
	1060 May 29 j 00:14	0°♊		conjunction	1065 Feb 18 j 04:20	5°♈40'23	-0°59'37
	1060 Jul 16 j 21:18	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 18:32	0°♊53'47		max. Earth dist.	1065 Apr 08 j 09:53	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 00:48	28°♎05'16	
	1060 Oct 15 j 15:03	0°♌			1065 Apr 30 j 15:26	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 18:24	0°♊	
minimum elong	1060 Oct 20 j 19:36	3°♌37'28	0°10'18		1065 Jul 26 j 10:39	0°♊	
behind sun begin	1060 Oct 20 j 03:18	3°♌08'57			1065 Sep 12 j 09:28	0°♊	
behind sun end	1060 Oct 21 j 11:53	4°♌06'00			1065 Nov 05 j 13:23	0°♎	
desc. node	1060 Nov 06 j 18:29	15°♌37'16		retrograde	1066 Jan 18 j 10:11	22°♎43'23	
	1060 Nov 26 j 16:11	0°♈		opposition	1066 Feb 26 j 11:02	13°♎40'24	3°59'58
morning rise	1060 Dec 10 j 18:47	10°♈22'39		greatest brilliancy	1066 Feb 26 j 23:40	13°♎28'01	-1.4m
	1061 Jan 05 j 22:58	0°♊		min. Earth dist.	1066 Mar 02 j 06:09	12°♎11'11	0.65284 AU
	1061 Feb 14 j 01:29	0°♌		direct	1066 Apr 08 j 20:04	3°♎38'28	
	1061 Mar 24 j 17:32	0°♈			1066 Jun 26 j 19:06	0°♊	
	1061 May 02 j 21:08	0°♎		desc. node	1066 Jun 29 j 15:33	1°♊33'23	
	1061 Jun 12 j 15:41	0°♊			1066 Aug 15 j 07:20	0°♌	
	1061 Jul 26 j 19:40	0°♊			1066 Sep 27 j 09:07	0°♈	

	1066 Nov 06 j 07:49	0° Z	morning rise	1071 Sep 06 j 04:40	3° M 38'48	
	1066 Dec 14 j 18:19	0° \approx		1071 Oct 17 j 08:06	0° L	
	1067 Jan 21 j 21:44	0° H		1071 Dec 02 j 16:56	0° M	
evening set	1067 Feb 22 j 10:33	24° H 25'04		1072 Jan 17 j 17:25	0° Z	
	1067 Mar 01 j 18:20	0° Y	desc. node	1072 Feb 19 j 12:24	21° Z 20'01	
	1067 Apr 11 j 02:52	0° B		1072 Mar 03 j 22:56	0° Z	
				1072 Apr 21 j 03:54	0° \approx	
conjunction	1067 Apr 26 j 05:15	10° B 52'24 -0°01'44		1072 Jun 24 j 23:46	0° H	
minimum elong	1067 Apr 26 j 05:19	10° B 52'30 0°01'44	retrograde	1072 Jul 14 j 11:20	2° H 27'29	
behind sun begin	1067 Apr 25 j 04:34	10° B 08'21		1072 Aug 03 j 04:03	30° R \approx	
behind sun end	1067 Apr 27 j 06:04	11° B 36'37	min. Earth dist.	1072 Aug 11 j 10:47	27° \approx 53'45	0.37664 AU
asc. node	1067 Apr 28 j 22:16	12° B 48'09	opposition	1072 Aug 14 j 09:08	27° \approx 05'49	-6°35'57
	1067 May 23 j 11:02	0° II	greatest brilliancy	1072 Aug 13 j 20:46	27° \approx 14'16	-2.9m
max. Earth dist.	1067 Jun 02 j 12:42	6° II 54'59 2.53223 AU	direct	1072 Sep 12 j 23:15	22° \approx 08'51	
morning rise	1067 Jun 21 j 18:14	19° II 54'53		1072 Oct 19 j 14:16	0° H	
	1067 Jul 06 j 23:04	0° E		1072 Dec 16 j 14:48	0° Y	
	1067 Aug 22 j 14:02	0° Q	asc. node	1072 Dec 18 j 19:47	1° Y 19'04	
	1067 Oct 10 j 13:27	0° M		1073 Feb 03 j 04:51	0° B	
	1067 Dec 02 j 19:13	0° L		1073 Mar 22 j 15:18	0° II	
retrograde	1068 Feb 29 j 02:43	29° L 48'35		1073 May 09 j 05:52	0° E	
opposition	1068 Apr 05 j 19:43	21° L 52'36 1°47'49		1073 Jun 25 j 23:36	0° Q	
greatest brilliancy	1068 Apr 06 j 08:27	21° L 40'47 -1.8m	evening set	1073 Jul 13 j 05:44	10° Q 53'13	
min. Earth dist.	1068 Apr 13 j 03:03	19° L 10'21 0.56507 AU		1073 Aug 12 j 07:24	0° M	
direct	1068 May 15 j 23:51	12° L 21'00	max. Earth dist.	1073 Aug 16 j 09:35	2° M 37'10	2.66218 AU
desc. node	1068 May 16 j 14:00	12° L 21'08				
	1068 Jul 13 j 21:13	0° M	conjunction	1073 Aug 27 j 21:30	10° M 00'28	1°01'24
	1068 Sep 01 j 12:07	0° Z	minimum elong	1073 Aug 27 j 22:26	10° M 01'58	1°01'24
	1068 Oct 13 j 11:32	0° Z		1073 Sep 27 j 14:48	0° L	
	1068 Nov 21 j 22:18	0° \approx	morning rise	1073 Oct 11 j 14:01	9° L 13'33	
	1068 Dec 30 j 19:44	0° H		1073 Nov 11 j 12:40	0° M	
	1069 Feb 08 j 09:29	0° Y		1073 Dec 24 j 23:28	0° Z	
asc. node	1069 Mar 15 j 22:14	26° Y 02'04	desc. node	1074 Jan 06 j 10:53	8° Z 47'40	
	1069 Mar 21 j 11:01	0° B		1074 Feb 05 j 02:52	0° Z	
evening set	1069 Apr 21 j 11:58	21° B 48'40		1074 Mar 18 j 08:02	0° \approx	
	1069 May 03 j 10:04	0° II		1074 Apr 28 j 09:21	0° H	
				1074 Jun 10 j 01:34	0° Y	
conjunction	1069 Jun 13 j 11:39	27° II 30'26 0°48'19		1074 Jul 30 j 12:44	0° B	
minimum elong	1069 Jun 13 j 10:08	27° II 27'56 0°48'19	retrograde	1074 Sep 14 j 19:09	12° B 46'22	
	1069 Jun 17 j 06:40	0° E	min. Earth dist.	1074 Oct 13 j 14:43	7° B 02'02	0.47995 AU
max. Earth dist.	1069 Jun 30 j 21:34	8° E 53'55 2.62892 AU	opposition	1074 Oct 21 j 16:50	4° B 07'08	-0°48'48
morning rise	1069 Jul 31 j 23:11	28° E 54'38	greatest brilliancy	1074 Oct 21 j 11:17	4° B 12'09	-2.3m
	1069 Aug 02 j 16:08	0° Q		1074 Nov 03 j 08:02	30° R Y	
	1069 Sep 19 j 03:45	0° M	asc. node	1074 Nov 05 j 19:15	29° Y 21'48	
	1069 Nov 06 j 14:22	0° L	direct	1074 Nov 24 j 03:13	27° Y 05'15	
	1069 Dec 26 j 19:15	0° M		1074 Dec 16 j 06:25	0° B	
desc. node	1070 Feb 20 j 18:35	0° Z		1075 Feb 23 j 18:11	0° II	
retrograde	1070 Apr 03 j 13:00	15° Z 44'45		1075 Apr 17 j 16:49	0° E	
opposition	1070 Apr 26 j 16:11	18° Z 44'43		1075 Jun 06 j 17:14	0° Q	
greatest brilliancy	1070 May 29 j 05:00	12° Z 43'09 -3°06'15		1075 Jul 24 j 22:59	0° M	
min. Earth dist.	1070 May 30 j 01:35	12° Z 27'01 -2.5m	evening set	1075 Aug 19 j 13:38	16° M 24'39	
direct	1070 Jun 06 j 02:31	10° Z 15'04 0.43535 AU		1075 Sep 09 j 07:45	0° L	
	1070 Jul 03 j 14:28	5° Z 27'50	max. Earth dist.	1075 Sep 10 j 20:55	1° L 01'31	2.59856 AU
	1070 Sep 09 j 17:05	0° Z				
	1070 Oct 25 j 08:20	0° \approx	conjunction	1075 Oct 05 j 05:35	17° L 22'15	0°29'02
	1070 Dec 06 j 06:32	0° H	minimum elong	1075 Oct 05 j 06:35	17° L 23'57	0°29'00
	1071 Jan 16 j 22:34	0° Y		1075 Oct 23 j 15:10	0° M	
asc. node	1071 Jan 31 j 21:15	10° Y 36'25	morning rise	1075 Nov 22 j 08:17	20° M 55'32	
	1071 Feb 28 j 15:33	0° B	desc. node	1075 Nov 24 j 10:31	22° M 25'28	
	1071 Apr 13 j 21:17	0° II		1075 Dec 04 j 22:49	0° Z	
	1071 May 29 j 14:58	0° E		1076 Jan 14 j 14:06	0° Z	
evening set	1071 Jun 05 j 14:33	4° E 30'47		1076 Feb 23 j 01:35	0° \approx	
	1071 Jul 15 j 09:06	0° Q		1076 Apr 02 j 02:15	0° H	
				1076 May 11 j 15:12	0° Y	
conjunction	1071 Jul 23 j 05:16	4° Q 59'47 1°08'35		1076 Jun 22 j 02:01	0° B	
minimum elong	1071 Jul 23 j 04:56	4° Q 59'15 1°08'35		1076 Aug 07 j 05:38	0° II	
max. Earth dist.	1071 Jul 25 j 07:41	6° Q 20'05 2.67290 AU	asc. node	1076 Sep 22 j 18:03	23° II 02'17	
	1071 Aug 31 j 11:27	0° M	retrograde	1076 Oct 26 j 19:12	29° II 53'11	

min. Earth dist.	1076 Nov 30 j 00:40	22°II07'29	0.60049 AU	evening set	1082 Jan 25 j 20:06	27°≈04'12
opposition	1076 Dec 05 j 09:28	19°II59'41	2°58'31		1082 Jan 29 j 13:38	0°✠
greatest brilliancy	1076 Dec 04 j 18:30	20°II14'32	-1.7m		1082 Mar 09 j 06:55	0°Υ
direct	1077 Jan 11 j 19:34	11°II19'04				
	1077 Mar 18 j 12:59	0°☾		conjunction	1082 Apr 02 j 07:53	18°Υ06'28 -0°27'05
	1077 May 14 j 23:52	0°Ω		minimum elong	1082 Apr 02 j 09:56	18°Υ10'15 0°27'04
	1077 Jul 04 j 14:37	0°♐			1082 Apr 18 j 11:24	0°♄
	1077 Aug 20 j 17:17	0°♌		asc. node	1082 May 15 j 15:32	19°♄30'01
evening set	1077 Sep 28 j 12:11	26°♌11'47		max. Earth dist.	1082 May 18 j 01:48	21°♄12'40 2.48182 AU
	1077 Oct 03 j 23:24	0°♍			1082 May 30 j 15:52	0°II
desc. node	1077 Oct 11 j 09:50	5°♍13'01		morning rise	1082 Jun 02 j 15:57	2°II04'40
max. Earth dist.	1077 Oct 13 j 09:09	6°♍36'33	2.48829 AU		1082 Jul 14 j 02:59	0°☾
	1077 Nov 14 j 18:52	0°♊			1082 Aug 30 j 01:01	0°Ω
					1082 Oct 19 j 05:14	0°♐
conjunction	1077 Nov 19 j 05:17	3°♊16'22	-0°23'48		1082 Dec 16 j 13:08	0°♌
minimum elong	1077 Nov 19 j 04:03	3°♊14'05	0°23'47	retrograde	1083 Feb 11 j 16:53	14°♌45'42
	1077 Dec 24 j 16:35	0°♊		opposition	1083 Mar 21 j 12:11	6°♌19'01 2°53'46
morning rise	1078 Jan 16 j 07:45	17°♊28'05		greatest brilliancy	1083 Mar 22 j 04:02	6°♌03'53 -1.6m
	1078 Feb 01 j 09:26	0°≈		min. Earth dist.	1083 Mar 27 j 13:03	4°♌00'59 0.60651 AU
	1078 Mar 11 j 16:44	0°✠			1083 Apr 08 j 06:40	30°♐♐
	1078 Apr 19 j 11:41	0°Υ		direct	1083 May 01 j 10:49	26°♐27'27
	1078 May 29 j 17:12	0°♄			1083 May 26 j 02:34	0°♌
	1078 Jul 11 j 11:47	0°II		desc. node	1083 Jun 03 j 06:04	2°♌29'01
asc. node	1078 Aug 10 j 16:11	19°II37'00			1083 Jul 29 j 07:43	0°♍
	1078 Aug 27 j 18:50	0°☾			1083 Sep 12 j 20:04	0°♊
	1078 Oct 28 j 08:19	0°Ω			1083 Oct 23 j 15:32	0°♊
retrograde	1078 Dec 01 j 14:19	6°Ω26'23			1083 Dec 01 j 12:45	0°≈
	1079 Jan 02 j 01:40	30°♐☾			1084 Jan 09 j 00:30	0°✠
min. Earth dist.	1079 Jan 09 j 04:30	27°☾12'43	0.66776 AU		1084 Feb 17 j 05:21	0°Υ
opposition	1079 Jan 10 j 18:40	26°☾34'24	4°25'09		1084 Mar 28 j 22:24	0°♄
greatest brilliancy	1079 Jan 10 j 11:42	26°☾41'24	-1.3m	evening set	1084 Mar 31 j 13:52	1°♄54'08
direct	1079 Feb 19 j 19:39	16°☾59'49		asc. node	1084 Apr 01 j 13:49	2°♄37'06
	1079 Apr 14 j 01:07	0°Ω			1084 May 10 j 14:03	0°II
	1079 Jun 12 j 12:39	0°♐				
	1079 Jul 31 j 22:13	0°♌		conjunction	1084 May 26 j 21:37	11°II06'44 0°32'22
desc. node	1079 Aug 29 j 08:06	18°♌42'47		minimum elong	1084 May 26 j 20:10	11°II04'17 0°32'21
	1079 Sep 14 j 19:10	0°♍		max. Earth dist.	1084 Jun 20 j 12:04	27°II32'23 2.59715 AU
	1079 Oct 26 j 13:34	0°♊			1084 Jun 24 j 05:39	0°☾
evening set	1079 Nov 19 j 06:15	17°♊47'53		morning rise	1084 Jul 16 j 20:56	14°☾45'59
	1079 Dec 05 j 03:50	0°♊			1084 Aug 09 j 14:58	0°Ω
max. Earth dist.	1080 Jan 09 j 15:28	27°♊44'42	2.37230 AU		1084 Sep 26 j 11:44	0°♐
	1080 Jan 12 j 12:06	0°≈			1084 Nov 15 j 02:56	0°♌
					1085 Jan 07 j 20:58	0°♍
conjunction	1080 Jan 21 j 01:45	6°≈45'52	-1°04'44	retrograde	1085 Apr 01 j 07:48	27°♍35'38
minimum elong	1080 Jan 21 j 01:12	6°≈44'48	1°04'44	desc. node	1085 Apr 20 j 04:28	25°♍22'59
	1080 Feb 19 j 12:34	0°✠		opposition	1085 May 05 j 19:22	20°♍42'40 -0°48'39
	1080 Mar 29 j 02:57	0°Υ		greatest brilliancy	1085 May 06 j 01:31	20°♍37'24 -2.2m
morning rise	1080 Mar 31 j 11:29	1°Υ48'08		min. Earth dist.	1085 May 14 j 07:27	17°♍48'44 0.48737 AU
	1080 May 08 j 03:10	0°♄		direct	1085 Jun 12 j 16:03	12°♍16'05
	1080 Jun 19 j 06:10	0°II			1085 Aug 08 j 16:01	0°♊
asc. node	1080 Jun 27 j 16:07	5°II46'50			1085 Sep 25 j 15:42	0°♊
	1080 Aug 03 j 04:46	0°☾			1085 Nov 06 j 05:08	0°≈
	1080 Sep 21 j 07:29	0°Ω			1085 Dec 16 j 08:29	0°✠
	1080 Nov 20 j 17:59	0°♐			1086 Jan 25 j 20:57	0°Υ
retrograde	1081 Jan 04 j 06:08	9°♐47'49		asc. node	1086 Feb 17 j 13:05	16°Υ23'41
opposition	1081 Feb 12 j 19:54	0°♐26'44	4°22'47		1086 Mar 08 j 17:31	0°♄
greatest brilliancy	1081 Feb 13 j 03:41	0°♐19'01	-1.3m		1086 Apr 21 j 08:04	0°II
	1081 Feb 13 j 22:54	30°♐Ω		evening set	1086 May 20 j 04:36	19°II13'22
min. Earth dist.	1081 Feb 15 j 02:58	29°Ω32'15	0.66991 AU		1086 Jun 05 j 15:23	0°☾
direct	1081 Mar 26 j 02:52	20°Ω26'48				
	1081 May 09 j 01:02	0°♐		conjunction	1086 Jul 08 j 09:50	21°☾10'44 1°04'10
	1081 Jul 07 j 19:56	0°♌		minimum elong	1086 Jul 08 j 08:56	21°☾09'17 1°04'10
desc. node	1081 Jul 16 j 06:43	5°♌03'29		max. Earth dist.	1086 Jul 16 j 01:36	26°☾05'12 2.66228 AU
	1081 Aug 24 j 00:52	0°♍			1086 Jul 22 j 04:29	0°Ω
	1081 Oct 05 j 11:17	0°♊		morning rise	1086 Aug 23 j 07:55	20°Ω27'54
	1081 Nov 14 j 04:38	0°♊			1086 Sep 07 j 08:28	0°♐
	1081 Dec 22 j 12:36	0°≈			1086 Oct 24 j 15:45	0°♌

	1086 Dec 11 j 01:10	0°♄	direct	1091 Dec 26 j 07:25	25°♄48'58	
	1087 Jan 28 j 03:03	0°♂		1092 Jan 22 j 18:59	0°♄	
desc. node	1087 Mar 08 j 03:51	23°♂20'43		1092 Mar 31 j 08:50	0°♄	
	1087 Mar 19 j 21:44	0°♄		1092 May 23 j 14:40	0°♄	
	1087 May 31 j 14:05	0°♄		1092 Jul 12 j 00:54	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°♄3	evening set	1092 Sep 11 j 19:26	10°♄00'58	
opposition	1087 Jul 13 j 18:02	26°♄03'24 -6°33'03	max. Earth dist.	1092 Sep 28 j 17:09	21°♄29'50	2.53613 AU
greatest brilliancy	1087 Jul 14 j 07:25	25°♄54'28 -2.9m		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 01:16	12°♄00'08	
direct	1087 Aug 13 j 08:25	20°♄48'55				
	1087 Sep 21 j 13:44	0°♄	conjunction	1092 Oct 30 j 21:18	14°♄01'23 -0°01'47	
	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 02:53	0°♄	behind sun begin	1092 Oct 29 j 23:59	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 23:26	0°♄	morning rise	1092 Dec 23 j 00:01	23°♄04'31	
	1088 May 16 j 15:42	0°♄		1093 Jan 01 j 03:17	0°♄	
evening set	1088 Jun 28 j 14:55	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 14:32	0°♄	
				1093 Jun 07 j 02:20	0°♄	
conjunction	1088 Aug 13 j 16:18	26°♄32'30 1°07'16		1093 Jul 20 j 13:08	0°♄	
minimum elong	1088 Aug 13 j 16:49	26°♄33'19 1°07'17	asc. node	1093 Aug 27 j 09:36	23°♄22'04	
	1088 Aug 19 j 02:10	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 04:55	13°♄07'31 4°03'51	
	1089 Jan 02 j 02:29	0°♄	greatest brilliancy	1093 Dec 27 j 17:08	13°♄19'19 -1.4m	
desc. node	1089 Jan 23 j 03:55	14°♄33'11	direct	1094 Feb 05 j 09:20	3°♄50'19	
	1089 Feb 14 j 07:05	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 02:34	0°♄		1094 Aug 08 j 13:56	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 03:03	0°♄	
min. Earth dist.	1089 Sep 20 j 18:49	13°♄58'36 0.42919 AU	evening set	1094 Oct 28 j 05:45	25°♄51'10	
opposition	1089 Sep 28 j 15:22	11°♄24'18 -3°09'36		1094 Nov 02 j 20:54	0°♄	
greatest brilliancy	1089 Sep 27 j 20:09	11°♄40'07 -2.6m	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 10:32	8°♄32'41				
	1090 Jan 12 j 18:09	0°♄	conjunction	1094 Dec 25 j 02:39	9°♄43'27 -0°55'08	
	1090 Mar 07 j 04:23	0°♄	minimum elong	1094 Dec 25 j 00:22	9°♄39'00 0°55'08	
	1090 Apr 26 j 04:59	0°♄		1095 Jan 20 j 00:04	0°♄	
	1090 Jun 14 j 02:10	0°♄		1095 Feb 27 j 02:22	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 21:56	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 04:17	0°♄		1095 Jun 27 j 23:49	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 15:19	17°♄26'11 -1.3m	
	1090 Dec 12 j 08:53	0°♄	min. Earth dist.	1096 Feb 01 j 07:40	17°♄09'54 0.67693 AU	
	1091 Jan 22 j 11:40	0°♄	direct	1096 Mar 12 j 12:39	7°♄35'07	
	1091 Mar 03 j 11:21	0°♄		1096 May 24 j 20:34	0°♄	
	1091 Apr 12 j 00:29	0°♄		1096 Jul 17 j 05:03	0°♄	
	1091 May 22 j 04:51	0°♄	desc. node	1096 Aug 01 j 22:46	9°♄54'31	
	1091 Jul 03 j 22:47	0°♄		1096 Sep 01 j 04:12	0°♄	
	1091 Aug 24 j 04:34	0°♄		1096 Oct 13 j 05:59	0°♄	
asc. node	1091 Oct 10 j 09:31	13°♄34'35		1096 Nov 21 j 20:56	0°♄	
retrograde	1091 Oct 12 j 09:28	13°♄36'18	evening set	1096 Dec 28 j 14:18	28°♄45'37	
min. Earth dist.	1091 Nov 13 j 14:11	6°♄34'13 0.55795 AU		1096 Dec 30 j 03:58	0°♄	
opposition	1091 Nov 20 j 07:12	3°♄57'43 1°51'53		1097 Feb 06 j 03:44	0°♄	
greatest brilliancy	1091 Nov 19 j 19:05	4°♄09'30 -1.9m				
	1091 Dec 01 j 06:05	30°♄8	conjunction	1097 Mar 06 j 08:49	21°♄59'52 -0°50'16	

minimum elong	1097 Mar 06 j 11:56	22° X 05'54	0°50'14	1101 Dec 20 j 05:18	0° M
	1097 Mar 16 j 18:43	0° Y			
	1097 Apr 25 j 20:08	0° B			
max. Earth dist.	1097 Apr 26 j 15:33	0° B 35'30	2.42792 AU		
morning rise	1097 May 11 j 20:46	11° B 36'42			
asc. node	1097 Jun 01 j 07:02	26° B 04'30			
	1097 Jun 06 j 22:21	0° II			
	1097 Jul 21 j 10:51	0° E			
	1097 Sep 06 j 21:20	0° O			
	1097 Oct 29 j 01:34	0° P			
	1098 Jan 14 j 22:19	0° A			
retrograde	1098 Jan 26 j 22:29	0° A 50'22			
	1098 Feb 07 j 09:29	30° R P			
opposition	1098 Mar 06 j 14:16	21° P 59'01	3°40'09		
greatest brilliancy	1098 Mar 07 j 04:47	21° P 44'55	-1.4m		
min. Earth dist.	1098 Mar 11 j 04:53	20° P 11'37	0.63888 AU		
direct	1098 Apr 16 j 21:45	11° P 58'50			
	1098 Jun 18 j 00:33	0° A			
desc. node	1098 Jun 19 j 21:28	0° A 55'19			
	1098 Aug 09 j 04:05	0° M			
	1098 Sep 21 j 22:18	0° Z			
	1098 Nov 01 j 03:24	0° Z			
	1098 Dec 09 j 17:12	0° \approx			
	1099 Jan 16 j 23:05	0° X			
	1099 Feb 24 j 21:46	0° Y			
evening set	1099 Mar 08 j 23:31	9° Y 05'45			
	1099 Apr 06 j 08:11	0° B			
asc. node	1099 Apr 19 j 06:34	9° B 18'26			
conjunction	1099 May 08 j 08:33	22° B 47'16	0°11'50		
minimum elong	1099 May 08 j 07:50	22° B 46'02	0°11'49		
behind sun begin	1099 May 07 j 15:44	22° B 17'54			
behind sun end	1099 May 08 j 23:57	23° B 14'08			
	1099 May 18 j 17:48	0° II			
max. Earth dist.	1099 Jun 10 j 00:00	15° II 10'50	2.55728 AU		
morning rise	1099 Jul 01 j 15:34	29° II 36'44			
	1099 Jul 02 j 05:41	0° E			
	1099 Aug 17 j 17:05	0° O			
	1099 Oct 05 j 04:06	0° P			
	1099 Nov 25 j 16:34	0° A			
	1100 Jan 26 j 17:31	0° M			
retrograde	1100 Mar 10 j 22:01	9° M 32'18			
opposition	1100 Apr 15 j 22:33	1° M 56'19	0°58'55		
greatest brilliancy	1100 Apr 16 j 06:27	1° M 49'10	-2.0m		
	1100 Apr 21 j 06:32	30° R A			
min. Earth dist.	1100 Apr 23 j 20:25	29° A 04'43	0.53869 AU		
desc. node	1100 May 06 j 21:14	25° A 03'33			
direct	1100 May 25 j 11:20	22° A 42'17			
	1100 Jun 29 j 18:35	0° M			
	1100 Aug 24 j 23:18	0° Z			
	1100 Oct 07 j 04:48	0° Z			
	1100 Nov 16 j 04:03	0° \approx			
	1100 Dec 25 j 09:23	0° X			
	1101 Feb 03 j 05:13	0° Y			
asc. node	1101 Mar 06 j 04:53	22° Y 38'22			
	1101 Mar 16 j 11:52	0° B			
	1101 Apr 28 j 15:11	0° II			
evening set	1101 May 02 j 10:03	2° II 34'19			
	1101 Jun 12 j 14:26	0° E			
conjunction	1101 Jun 22 j 20:30	6° E 41'44	0°55'26		
minimum elong	1101 Jun 22 j 19:09	6° E 39'31	0°55'25		
max. Earth dist.	1101 Jul 06 j 14:00	15° E 35'48	2.64319 AU		
	1101 Jul 29 j 00:16	0° O			
morning rise	1101 Aug 09 j 05:51	7° O 09'44			
	1101 Sep 14 j 08:05	0° P			
	1101 Nov 01 j 06:45	0° A			