

conjunction	2000 Jul 01 15:50	10°♍05'47	0°52'19	greatest brilliancy	2005 Nov 07 02:39	15°♄05'18	-2.3m
minimum elong	2000 Jul 01 14:18	10°♍03'15	0°52'19	opposition	2005 Nov 07 07:57	15°♄00'38	0°-27'-36
max. Earth dist.	2000 Jul 21 05:13	22°♍57'12	2.62108 AU	asc. node	2005 Nov 15 11:20	12°♄17'17	
	2000 Aug 01 01:21	0°♌		direct	2005 Dec 10 04:03	8°♄14'08	
morning rise	2000 Aug 19 14:47	11°♌57'02			2006 Feb 17 22:44	0°♈	
	2000 Sep 17 00:19	0°♍			2006 Apr 14 00:59	0°♍	
	2000 Nov 04 02:00	0°♎			2006 Jun 03 18:43	0°♌	
	2000 Dec 23 14:37	0°♏			2006 Jul 22 18:53	0°♍	
	2001 Feb 14 20:06	0°♐		evening set	2006 Sep 07 00:56	29°♎15'53	
desc. node	2001 Apr 12 04:43	24°♐22'07			2006 Sep 08 04:18	0°♎	
retrograde	2001 May 11 16:08	29°♐02'57		max. Earth dist.	2006 Sep 30 09:18	14°♎28'30	2.60940 AU
opposition	2001 Jun 13 17:46	22°♐45'46	-3°-16'-17				
greatest brilliancy	2001 Jun 15 02:51	22°♐18'56	-2.4m	conjunction	2006 Oct 23 06:46	29°♎43'23	0°23'17
min. Earth dist.	2001 Jun 21 22:51	20°♐06'36	0.45017 AU	minimum elong	2006 Oct 23 07:34	29°♎44'44	0°23'17
direct	2001 Jul 19 22:45	15°♐06'29			2006 Oct 23 16:38	0°♏	
	2001 Sep 08 17:51	0°♑		desc. node	2006 Dec 03 01:47	27°♏47'41	
	2001 Oct 27 17:19	0°♒			2006 Dec 06 04:58	0°♐	
	2001 Dec 08 21:52	0°♓		morning rise	2006 Dec 09 16:40	2°♐27'47	
	2002 Jan 18 22:53	0°♑			2007 Jan 16 20:54	0°♑	
asc. node	2002 Feb 10 13:06	16°♑21'57			2007 Feb 26 01:32	0°♒	
	2002 Mar 01 15:05	0°♒			2007 Apr 06 08:49	0°♓	
	2002 Apr 13 17:36	0°♈			2007 May 15 14:06	0°♑	
	2002 May 28 11:43	0°♉			2007 Jun 24 21:27	0°♒	
evening set	2002 Jun 24 02:29	17°♉23'24			2007 Aug 07 06:01	0°♈	
	2002 Jul 13 15:23	0°♌			2007 Sep 28 23:54	0°♉	
				asc. node	2007 Oct 03 10:46	1°♉58'39	
conjunction	2002 Aug 10 22:17	18°♌06'09	1°08'51	retrograde	2007 Nov 15 08:24	12°♉27'03	
minimum elong	2002 Aug 10 22:10	18°♌05'59	1°08'51	min. Earth dist.	2007 Dec 18 23:41	4°♉54'52	0.58934 AU
max. Earth dist.	2002 Aug 14 11:48	20°♌22'29	2.67143 AU	greatest brilliancy	2007 Dec 23 19:23	3°♉00'59	-1.6m
	2002 Aug 29 14:38	0°♍		opposition	2007 Dec 24 19:47	2°♉36'56	3°21'16
morning rise	2002 Sep 24 23:27	16°♍46'31			2007 Dec 31 16:00	30°♈	
	2002 Oct 15 17:38	0°♎		direct	2008 Jan 30 22:33	24°♈04'40	
	2002 Dec 01 14:26	0°♏			2008 Mar 04 10:01	0°♉	
	2003 Jan 17 04:22	0°♐			2008 May 09 20:20	0°♌	
desc. node	2003 Feb 28 04:22	26°♐59'48			2008 Jul 01 16:21	0°♍	
	2003 Mar 04 21:17	0°♑			2008 Aug 19 10:03	0°♎	
	2003 Apr 21 23:48	0°♒			2008 Oct 04 04:34	0°♏	
	2003 Jun 17 02:25	0°♓		evening set	2008 Oct 16 03:19	8°♏08'05	
retrograde	2003 Jul 29 07:36	10°♓08'02		desc. node	2008 Oct 20 00:45	10°♏48'47	
min. Earth dist.	2003 Aug 27 09:46	5°♓22'46	0.37272 AU	max. Earth dist.	2008 Oct 31 03:42	18°♏32'36	2.50336 AU
opposition	2003 Aug 28 17:59	5°♓01'14	-6°-37'-3		2008 Nov 16 08:26	0°♐	
greatest brilliancy	2003 Aug 28 12:33	5°♓04'51	-2.9m				
direct	2003 Sep 27 07:52	0°♑07'07		conjunction	2008 Dec 05 22:04	14°♑09'18	0°-27'-45
	2003 Dec 16 13:24	0°♒		minimum elong	2008 Dec 05 20:45	14°♑06'54	0°27'45
asc. node	2003 Dec 29 11:21	7°♒38'16			2008 Dec 27 07:30	0°♑	
	2004 Feb 03 10:04	0°♓		morning rise	2009 Jan 31 12:21	26°♑47'41	
	2004 Mar 21 07:39	0°♈			2009 Feb 04 15:55	0°♒	
	2004 May 07 08:45	0°♉			2009 Mar 15 03:20	0°♓	
	2004 Jun 23 20:50	0°♌			2009 Apr 22 13:44	0°♑	
evening set	2004 Jul 31 23:42	24°♌01'47			2009 May 31 21:18	0°♒	
	2004 Aug 10 10:14	0°♍			2009 Jul 12 02:56	0°♈	
max. Earth dist.	2004 Sep 05 19:18	16°♍46'42	2.66717 AU	asc. node	2009 Aug 20 09:15	26°♈34'39	
					2009 Aug 25 17:15	0°♉	
conjunction	2004 Sep 15 12:55	23°♍00'55	0°57'41		2009 Oct 16 15:32	0°♌	
minimum elong	2004 Sep 15 13:55	23°♍02'32	0°57'40	retrograde	2009 Dec 20 13:26	19°♌41'43	
	2004 Sep 26 09:15	0°♎		min. Earth dist.	2010 Jan 27 18:56	10°♌36'36	0.66398 AU
morning rise	2004 Oct 29 23:42	21°♎54'33		greatest brilliancy	2010 Jan 29 08:25	9°♌59'07	-1.3m
	2004 Nov 11 05:11	0°♏		opposition	2010 Jan 29 19:43	9°♌47'48	4°31'28
	2004 Dec 25 16:04	0°♐		direct	2010 Mar 10 17:09	0°♌17'41	
desc. node	2005 Jan 15 02:54	14°♐07'28			2010 Jun 07 06:11	0°♍	
	2005 Feb 06 18:32	0°♑			2010 Jul 29 23:46	0°♎	
	2005 Mar 20 18:02	0°♒		desc. node	2010 Sep 06 23:09	24°♎42'43	
	2005 May 01 02:58	0°♓			2010 Sep 14 22:38	0°♏	
	2005 Jun 12 02:30	0°♑			2010 Oct 28 06:47	0°♐	
	2005 Jul 28 05:12	0°♒		evening set	2010 Dec 05 03:05	27°♑50'17	
retrograde	2005 Oct 01 22:04	23°♒22'20			2010 Dec 07 23:49	0°♑	
min. Earth dist.	2005 Oct 30 03:20	17°♒54'05	0.46405 AU	max. Earth dist.	2011 Jan 07 22:20	23°♑44'59	2.37934 AU

	2011 Jan 15 22:41	0°♁		retrograde	2016 Apr 17 12:14	8°♁54'02	
				desc. node	2016 Apr 28 20:16	8°♁06'00	
conjunction	2011 Feb 04 16:40	15°♁30'44	-1°-4'-44	opposition	2016 May 22 11:17	1°♁47'23	-1°-9'-33
minimum elong	2011 Feb 04 16:20	15°♁30'05	1°04'46	greatest brilliancy	2016 May 23 00:39	1°♁35'43	-2.1m
	2011 Feb 23 01:06	0°♁			2016 May 27 13:51	30°♁	
	2011 Apr 02 04:51	0°♁		min. Earth dist.	2016 May 30 21:29	28°♁51'16	0.50322 AU
morning rise	2011 Apr 16 01:09	10°♁44'29		direct	2016 Jun 29 23:38	23°♁03'29	
	2011 May 11 07:03	0°♁			2016 Aug 02 17:49	0°♁	
	2011 Jun 21 02:50	0°♁			2016 Sep 27 08:07	0°♁	
asc. node	2011 Jul 08 08:49	12°♁11'37			2016 Nov 09 05:51	0°♁	
	2011 Aug 03 09:22	0°♁			2016 Dec 19 09:23	0°♁	
	2011 Sep 19 01:51	0°♁			2017 Jan 28 05:39	0°♁	
	2011 Nov 11 04:15	0°♁		asc. node	2017 Feb 27 05:16	22°♁09'15	
retrograde	2012 Jan 24 00:53	23°♁05'34			2017 Mar 10 00:33	0°♁	
opposition	2012 Mar 03 20:10	13°♁39'25	4°10'34		2017 Apr 21 10:32	0°♁	
greatest brilliancy	2012 Mar 04 03:59	13°♁31'42	-1.2m		2017 Jun 04 16:16	0°♁	
min. Earth dist.	2012 Mar 05 16:55	12°♁55'10	0.67368 AU	evening set	2017 Jun 07 09:44	1°♁48'43	
direct	2012 Apr 14 03:53	3°♁40'56			2017 Jul 20 12:19	0°♁	
	2012 Jul 03 12:31	0°♁					
desc. node	2012 Jul 24 22:02	11°♁51'11		conjunction	2017 Jul 27 00:57	4°♁12'29	1°06'04
	2012 Aug 23 15:24	0°♁		minimum elong	2017 Jul 27 00:14	4°♁11'21	1°06'04
	2012 Oct 07 03:21	0°♁		max. Earth dist.	2017 Aug 05 10:39	10°♁14'58	2.65816 AU
	2012 Nov 17 02:36	0°♁			2017 Sep 05 09:35	0°♁	
	2012 Dec 26 00:48	0°♁		morning rise	2017 Sep 11 04:07	3°♁39'56	
	2013 Feb 02 01:54	0°♁			2017 Oct 22 18:29	0°♁	
evening set	2013 Feb 09 11:08	5°♁50'03			2017 Dec 09 08:59	0°♁	
greatest brilliancy	2013 Feb 23 06:16	16°♁42'09	1.2m		2018 Jan 26 12:56	0°♁	
	2013 Mar 12 06:26	0°♁		desc. node	2018 Mar 16 19:04	29°♁29'00	
					2018 Mar 17 16:40	0°♁	
conjunction	2013 Apr 18 00:20	28°♁08'20	0°-23'-55		2018 May 16 04:55	0°♁	
minimum elong	2013 Apr 18 02:17	28°♁12'00	0°23'54	retrograde	2018 Jun 26 21:04	9°♁13'05	
	2013 Apr 20 11:48	0°♁		opposition	2018 Jul 27 05:13	4°♁08'47	-6°-28'-20
asc. node	2013 May 25 07:52	25°♁36'48		greatest brilliancy	2018 Jul 28 09:41	3°♁49'21	-2.8m
	2013 May 31 10:39	0°♁		min. Earth dist.	2018 Jul 31 07:45	3°♁01'38	0.38497 AU
max. Earth dist.	2013 Jun 04 22:42	3°♁12'31	2.46650 AU		2018 Aug 13 02:14	30°♁	
morning rise	2013 Jun 19 20:19	13°♁42'03		direct	2018 Aug 27 14:05	28°♁36'36	
	2013 Jul 13 13:22	0°♁			2018 Sep 11 00:56	0°♁	
	2013 Aug 28 02:05	0°♁			2018 Nov 15 22:21	0°♁	
	2013 Oct 15 11:05	0°♁			2019 Jan 01 02:20	0°♁	
	2013 Dec 07 20:41	0°♁		asc. node	2019 Jan 15 04:48	9°♁30'59	
retrograde	2014 Mar 01 16:23	27°♁31'58			2019 Feb 14 10:51	0°♁	
opposition	2014 Apr 08 21:03	18°♁56'50	2°28'09		2019 Mar 31 06:12	0°♁	
greatest brilliancy	2014 Apr 09 14:21	18°♁40'16	-1.5m		2019 May 16 03:09	0°♁	
min. Earth dist.	2014 Apr 14 12:48	16°♁47'01	0.61757 AU		2019 Jul 01 23:19	0°♁	
direct	2014 May 20 01:31	9°♁01'31		evening set	2019 Jul 18 08:26	10°♁24'26	
desc. node	2014 Jun 11 21:44	12°♁04'56			2019 Aug 18 05:18	0°♁	
	2014 Jul 26 02:25	0°♁		max. Earth dist.	2019 Aug 28 19:21	6°♁43'52	2.67533 AU
	2014 Sep 13 21:57	0°♁					
	2014 Oct 26 10:43	0°♁		conjunction	2019 Sep 02 10:42	9°♁41'11	1°04'57
	2014 Dec 04 23:56	0°♁		minimum elong	2019 Sep 02 11:24	9°♁42'17	1°04'57
	2015 Jan 12 10:20	0°♁			2019 Oct 04 04:22	0°♁	
	2015 Feb 20 00:11	0°♁		morning rise	2019 Oct 16 18:34	8°♁07'25	
	2015 Mar 31 16:26	0°♁			2019 Nov 19 07:40	0°♁	
asc. node	2015 Apr 12 05:41	8°♁30'26			2020 Jan 03 09:37	0°♁	
evening set	2015 Apr 18 05:53	12°♁53'23		desc. node	2020 Feb 01 18:24	19°♁55'04	
	2015 May 12 02:40	0°♁			2020 Feb 16 11:33	0°♁	
					2020 Mar 30 19:43	0°♁	
conjunction	2015 Jun 14 15:56	23°♁17'12	0°37'09		2020 May 13 04:17	0°♁	
minimum elong	2015 Jun 14 14:17	23°♁14'23	0°37'08		2020 Jun 28 01:45	0°♁	
	2015 Jun 24 13:33	0°♁		retrograde	2020 Sep 09 22:22	28°♁08'30	
max. Earth dist.	2015 Jul 11 12:19	11°♁20'19	2.58688 AU	min. Earth dist.	2020 Oct 06 14:13	23°♁25'07	0.41491 AU
morning rise	2015 Aug 05 07:46	27°♁37'39		greatest brilliancy	2020 Oct 12 22:34	21°♁24'32	-2.6m
	2015 Aug 08 23:32	0°♁		opposition	2020 Oct 13 23:26	21°♁04'41	-2°-59'-44
	2015 Sep 25 02:18	0°♁		direct	2020 Nov 14 00:35	15°♁14'00	
	2015 Nov 12 21:41	0°♁		asc. node	2020 Dec 02 03:33	17°♁17'42	
	2016 Jan 03 14:32	0°♁			2021 Jan 06 22:27	0°♁	
	2016 Mar 06 02:28	0°♁			2021 Mar 04 03:29	0°♁	

	2021 Apr 23 11:49	0°☉			2026 Jan 23 09:16	0°≈		
	2021 Jun 11 13:33	0°♈			2026 Mar 02 14:15	0°✠		
	2021 Jul 29 20:32	0°♍		morning rise	2026 Mar 16 13:05	10°✠59'17		
evening set	2021 Aug 23 13:31	15°♍36'34			2026 Apr 09 19:36	0°♃		
	2021 Sep 15 00:14	0°♊			2026 May 18 22:25	0°♄		
max. Earth dist.	2021 Sep 20 11:33	3°♊32'33	2.63814 AU		2026 Jun 28 19:29	0°♅		
				asc. node	2026 Jul 25 00:15	18°♅19'01		
conjunction	2021 Oct 08 04:01	15°♊05'50	0°39'06		2026 Aug 11 08:30	0°☉		
minimum elong	2021 Oct 08 05:06	15°♊07'38	0°39'05		2026 Sep 28 02:48	0°♈		
	2021 Oct 30 14:21	0°♌			2026 Nov 25 23:37	0°♍		
morning rise	2021 Nov 22 21:33	15°♌48'06		retrograde	2027 Jan 10 12:59	10°♍25'45		
	2021 Dec 13 09:53	0°♎		opposition	2027 Feb 19 15:51	0°♍46'06	4°27'48	
desc. node	2021 Dec 19 17:03	4°♎24'48		greatest brilliancy	2027 Feb 19 16:27	0°♍45'30	-1.2m	
	2022 Jan 24 12:53	0°♏		min. Earth dist.	2027 Feb 20 00:08	0°♍37'52	0.67792 AU	
	2022 Mar 06 06:22	0°≈			2027 Feb 21 14:13	30°♈		
	2022 Apr 15 03:05	0°✠		direct	2027 Apr 01 14:08	20°♈55'36		
	2022 May 24 23:17	0°♃			2027 May 14 14:47	0°♍		
	2022 Jul 05 06:04	0°♄			2027 Jul 15 05:40	0°♊		
	2022 Aug 20 07:56	0°♅		desc. node	2027 Aug 11 13:59	16°♊18'32		
asc. node	2022 Oct 20 02:15	24°♅51'05			2027 Sep 02 01:52	0°♌		
retrograde	2022 Oct 30 13:25	25°♅36'50			2027 Oct 15 23:13	0°♎		
min. Earth dist.	2022 Dec 01 02:11	18°♅50'27	0.54447 AU		2027 Nov 25 18:38	0°♏		
greatest brilliancy	2022 Dec 07 07:43	16°♅26'54	-1.9m		2028 Jan 03 16:01	0°≈		
opposition	2022 Dec 08 05:41	16°♅05'47	2°17'42	evening set	2028 Jan 13 06:42	7°≈33'00		
direct	2023 Jan 12 20:56	8°♅07'45			2028 Feb 10 16:31	0°✠		
	2023 Mar 25 11:45	0°☉			2028 Mar 19 19:35	0°♃		
	2023 May 20 15:31	0°♈						
	2023 Jul 10 11:40	0°♍		conjunction	2028 Mar 21 02:35	1°♃00'23	0°-48'-38	
	2023 Aug 27 13:20	0°♊		minimum elong	2028 Mar 21 05:51	1°♃06'44	0°48'37	
evening set	2023 Sep 30 19:54	22°♊23'27			2028 Apr 27 22:21	0°♄		
	2023 Oct 12 04:04	0°♌		max. Earth dist.	2028 May 11 20:52	10°♄24'20	2.41207 AU	
max. Earth dist.	2023 Oct 18 09:13	4°♌12'54	2.54978 AU	morning rise	2028 May 28 03:27	22°♄20'31		
desc. node	2023 Nov 06 16:02	17°♌29'39			2028 Jun 07 18:20	0°♅		
				asc. node	2028 Jun 10 23:06	2°♅17'10		
conjunction	2023 Nov 18 05:41	25°♌36'42	0°-6'-56		2028 Jul 20 20:10	0°☉		
minimum elong	2023 Nov 18 05:23	25°♌36'10	0°06'57		2028 Sep 04 14:36	0°♈		
behind sun begin	2023 Nov 17 10:06	25°♌02'09			2028 Oct 24 01:10	0°♍		
behind sun end	2023 Nov 19 00:40	26°♌10'13			2028 Dec 21 08:46	0°♊		
	2023 Nov 24 10:15	0°♎		retrograde	2029 Feb 14 08:16	13°♊55'21		
	2024 Jan 04 14:58	0°♏		opposition	2029 Mar 25 07:49	4°♊57'09	3°18'31	
morning rise	2024 Jan 09 05:05	3°♏25'21		greatest brilliancy	2029 Mar 25 23:44	4°♊41'39	-1.3m	
	2024 Feb 13 06:05	0°≈		min. Earth dist.	2029 Mar 29 12:50	3°♊18'57	0.64723 AU	
	2024 Mar 22 23:47	0°✠			2029 Apr 07 13:09	30°♍		
	2024 Apr 30 15:32	0°♃		direct	2029 May 05 18:59	24°♍55'45		
	2024 Jun 09 04:34	0°♄			2029 Jun 05 04:49	0°♊		
	2024 Jul 20 20:43	0°♅		desc. node	2029 Jun 28 12:37	8°♊54'42		
	2024 Sep 04 19:46	0°☉			2029 Aug 07 16:02	0°♌		
asc. node	2024 Sep 06 02:04	0°☉45'41			2029 Sep 23 08:14	0°♎		
	2024 Nov 04 04:09	0°♈			2029 Nov 04 00:32	0°♏		
retrograde	2024 Dec 06 23:33	6°♈10'16			2029 Dec 13 05:24	0°≈		
	2025 Jan 06 10:44	30°☉			2030 Jan 20 10:27	0°✠		
min. Earth dist.	2025 Jan 12 13:32	27°☉37'40	0.64228 AU		2030 Feb 27 19:07	0°♃		
greatest brilliancy	2025 Jan 15 08:26	26°☉30'49	-1.4m	evening set	2030 Mar 24 16:00	19°♃03'11		
opposition	2025 Jan 16 02:38	26°☉12'37	4°17'15		2030 Apr 08 05:26	0°♄		
direct	2025 Feb 24 01:59	17°☉00'55		asc. node	2030 Apr 28 23:02	15°♄17'16		
	2025 Apr 18 04:20	0°♈			2030 May 19 09:28	0°♅		
	2025 Jun 17 08:35	0°♍						
	2025 Aug 06 23:23	0°♊		conjunction	2030 May 25 10:50	4°♅17'32	0°16'38	
	2025 Sep 22 07:54	0°♌		minimum elong	2030 May 25 09:48	4°♅15'43	0°16'36	
desc. node	2025 Sep 23 15:20	0°♌52'50		max. Earth dist.	2030 Jun 29 09:12	28°♅28'17	2.54452 AU	
	2025 Nov 04 13:01	0°♎			2030 Jul 01 15:19	0°☉		
evening set	2025 Nov 13 20:53	6°♎43'28		morning rise	2030 Jul 19 18:13	12°☉08'57		
max. Earth dist.	2025 Nov 30 10:09	18°♎52'01	2.42388 AU		2030 Aug 15 23:56	0°♈		
	2025 Dec 15 07:33	0°♏			2030 Oct 02 09:42	0°♍		
					2030 Nov 21 07:54	0°♊		
conjunction	2026 Jan 09 11:41	19°♏12'56	0°-56'-28		2031 Jan 15 22:47	0°♌		
minimum elong	2026 Jan 09 09:38	19°♏08'59	0°56'28	retrograde	2031 Mar 29 00:34	21°♌38'10		

opposition	2031 May 04 12:03	13°♌50'54	0°32'19			2036 Aug 05 18:42	0°♎	
greatest brilliancy	2031 May 04 18:13	13°♌45'16	-1.8m	evening set		2036 Aug 09 05:07	2°♎10'09	
min. Earth dist.	2031 May 12 03:43	11°♌02'57	0.55337 AU	max. Earth dist.		2036 Sep 11 02:45	23°♎07'04	2.65909 AU
desc. node	2031 May 16 11:41	9°♌32'23				2036 Sep 21 19:16	0°♎	
direct	2031 Jun 13 11:56	4°♌26'17						
	2031 Aug 25 08:08	0°♌		conjunction		2036 Sep 23 15:44	1°♎11'52	0°51'49
	2031 Oct 10 13:47	0°♌		minimum elong		2036 Sep 23 16:51	1°♎13'39	0°51'48
	2031 Nov 20 10:57	0°♌				2036 Nov 06 13:02	0°♌	
	2031 Dec 29 15:15	0°♌		morning rise		2036 Nov 07 09:47	0°♌34'36	
	2032 Feb 06 19:19	0°♌				2036 Dec 20 18:00	0°♌	
asc. node	2032 Mar 15 21:58	28°♌27'17		desc. node		2037 Jan 05 09:20	10°♌52'04	
	2032 Mar 18 00:35	0°♌				2037 Feb 01 11:07	0°♌	
	2032 Apr 28 22:44	0°♌				2037 Mar 14 22:02	0°♌	
evening set	2032 May 20 02:45	14°♌38'45				2037 Apr 24 14:44	0°♌	
	2032 Jun 11 19:05	0°♌				2037 Jun 04 13:02	0°♌	
						2037 Jul 17 22:42	0°♌	
conjunction	2032 Jul 11 05:16	19°♌28'28	0°58'45			2037 Sep 11 20:28	0°♌	
minimum elong	2032 Jul 11 03:59	19°♌26'22	0°58'45	retrograde		2037 Oct 12 23:08	6°♌15'48	
max. Earth dist.	2032 Jul 27 00:50	29°♌46'10	2.63652 AU	asc. node		2037 Nov 05 18:38	2°♌13'00	
	2032 Jul 27 09:23	0°♌		min. Earth dist.		2037 Nov 11 07:53	0°♌19'34	0.49357 AU
morning rise	2032 Aug 28 00:06	20°♌17'58				2037 Nov 12 05:39	30°♌	
	2032 Sep 12 06:31	0°♌		greatest brilliancy		2037 Nov 19 00:18	27°♌30'30	-2.2m
	2032 Oct 30 00:38	0°♌		opposition		2037 Nov 19 09:09	27°♌22'23	0°43'17
	2032 Dec 17 16:46	0°♌		direct		2037 Dec 23 06:31	20°♌07'36	
desc. node	2033 Feb 06 11:12	0°♌				2038 Feb 05 00:32	0°♌	
	2033 Apr 02 10:28	28°♌20'49				2038 Apr 07 04:57	0°♌	
	2033 Apr 06 06:50	0°♌				2038 May 29 08:38	0°♌	
retrograde	2033 May 26 23:47	12°♌30'17				2038 Jul 17 22:07	0°♌	
opposition	2033 Jun 28 01:29	6°♌41'56	-4°-33'-52			2038 Sep 03 13:04	0°♌	
greatest brilliancy	2033 Jun 29 16:08	6°♌12'13	-2.5m	evening set		2038 Sep 15 11:23	7°♌43'15	
min. Earth dist.	2033 Jul 05 11:13	4°♌26'22	0.42303 AU	max. Earth dist.		2038 Oct 06 13:50	21°♌36'29	2.59037 AU
	2033 Jul 27 04:34	30°♌				2038 Oct 19 02:36	0°♌	
direct	2033 Aug 01 14:24	29°♌47'30						
	2033 Aug 07 00:47	0°♌		conjunction		2038 Nov 01 07:00	8°♌57'18	0°12'54
	2033 Oct 17 21:51	0°♌		minimum elong		2038 Nov 01 07:29	8°♌58'07	0°12'53
	2033 Dec 01 12:09	0°♌		behind sun begin		2038 Oct 31 19:13	8°♌37'10	
	2034 Jan 12 15:15	0°♌		behind sun end		2038 Nov 01 19:45	9°♌19'06	
asc. node	2034 Jan 31 20:17	13°♌41'20		desc. node		2038 Nov 23 08:22	24°♌13'40	
	2034 Feb 23 23:23	0°♌				2038 Dec 01 13:05	0°♌	
	2034 Apr 08 12:49	0°♌		morning rise		2038 Dec 20 00:17	13°♌11'21	
	2034 May 23 14:26	0°♌				2039 Jan 12 01:12	0°♌	
evening set	2034 Jul 03 03:43	26°♌16'55				2039 Feb 21 00:45	0°♌	
	2034 Jul 08 22:50	0°♌				2039 Apr 01 02:22	0°♌	
						2039 May 10 01:28	0°♌	
conjunction	2034 Aug 19 05:22	26°♌19'56	1°08'33			2039 Jun 18 23:31	0°♌	
minimum elong	2034 Aug 19 05:35	26°♌20'17	1°08'33			2039 Jul 31 10:57	0°♌	
max. Earth dist.	2034 Aug 19 17:47	26°♌39'42	2.67511 AU			2039 Sep 18 07:28	0°♌	
	2034 Aug 24 23:42	0°♌		asc. node		2039 Sep 23 17:00	2°♌51'02	
morning rise	2034 Oct 02 21:24	24°♌47'35		retrograde		2039 Nov 23 20:47	21°♌45'15	
	2034 Oct 11 00:44	0°♌		min. Earth dist.		2039 Dec 28 14:40	13°♌49'49	0.61091 AU
	2034 Nov 26 14:15	0°♌		greatest brilliancy		2040 Jan 01 16:14	12°♌13'02	-1.5m
	2035 Jan 11 13:01	0°♌		opposition		2040 Jan 02 15:27	11°♌49'57	3°47'34
desc. node	2035 Feb 18 09:35	24°♌55'57		direct		2040 Feb 09 11:48	3°♌01'43	
	2035 Feb 26 01:58	0°♌				2040 May 02 12:07	0°♌	
	2035 Apr 12 19:35	0°♌				2040 Jun 26 04:42	0°♌	
	2035 May 30 22:07	0°♌				2040 Aug 14 12:35	0°♌	
retrograde	2035 Aug 15 10:00	28°♌26'02				2040 Sep 29 12:09	0°♌	
min. Earth dist.	2035 Sep 11 14:14	23°♌58'38	0.38041 AU	desc. node		2040 Oct 10 06:47	7°♌19'07	
greatest brilliancy	2035 Sep 14 22:31	23°♌02'50	-2.8m	evening set		2040 Oct 26 00:34	18°♌12'20	
opposition	2035 Sep 15 19:38	22°♌48'08	-5°-38'-36	max. Earth dist.		2040 Nov 09 09:21	28°♌20'55	2.47575 AU
direct	2035 Oct 15 08:32	17°♌45'25				2040 Nov 11 16:52	0°♌	
	2035 Dec 01 19:37	0°♌						
asc. node	2035 Dec 19 19:50	8°♌46'59		conjunction		2040 Dec 17 12:49	26°♌11'43	0°-39'-20
	2036 Jan 26 07:14	0°♌		minimum elong		2040 Dec 17 10:58	26°♌08'17	0°39'20
	2036 Mar 15 02:36	0°♌				2040 Dec 22 14:49	0°♌	
	2036 May 02 00:50	0°♌				2041 Jan 30 21:08	0°♌	
	2036 Jun 18 23:57	0°♌		morning rise		2041 Feb 15 07:17	12°♌00'35	

	2041 Mar 10 06:09	0°♄			2046 Apr 12 01:50	30°♁	
	2041 Apr 17 14:17	0°♃		opposition	2046 Apr 17 18:06	27°♁54'06	1°51'04
greatest brilliancy	2041 Apr 28 01:50	8°♃06'59	1.2m	greatest brilliancy	2046 Apr 18 09:41	27°♁39'23	-1.6m
	2041 May 26 19:04	0°♂		min. Earth dist.	2046 Apr 24 04:26	25°♁28'25	0.59705 AU
	2041 Jul 06 19:30	0°♁		direct	2046 May 28 15:31	18°♁06'16	
asc. node	2041 Aug 10 17:15	23°♁59'57		desc. node	2046 Jun 02 02:57	18°♁13'59	
	2041 Aug 19 20:27	0°♁			2046 Jul 15 05:12	0°♁	
	2041 Oct 08 13:53	0°♁			2046 Sep 07 05:02	0°♁	
retrograde	2041 Dec 28 05:39	27°♁39'16			2046 Oct 20 16:07	0°♁	
min. Earth dist.	2042 Feb 05 07:50	18°♁17'40	0.67174 AU		2046 Nov 29 14:24	0°♁	
greatest brilliancy	2042 Feb 06 05:00	17°♁56'30	-1.2m		2047 Jan 07 05:45	0°♄	
opposition	2042 Feb 06 12:04	17°♁49'26	4°33'43		2047 Feb 14 23:21	0°♃	
direct	2042 Mar 18 19:50	8°♁10'50			2047 Mar 26 18:49	0°♂	
	2042 May 30 13:08	0°♁		asc. node	2047 Apr 02 14:09	5°♂00'42	
	2042 Jul 24 09:51	0°♁		evening set	2047 Apr 30 19:36	25°♂23'37	
desc. node	2042 Aug 28 05:21	21°♁40'12			2047 May 07 07:44	0°♁	
	2042 Sep 09 22:53	0°♁			2047 Jun 19 20:42	0°♁	
	2042 Oct 23 11:36	0°♁					
	2042 Dec 03 05:42	0°♁		conjunction	2047 Jun 25 02:56	3°♁32'06	0°46'33
evening set	2042 Dec 18 09:51	11°♁33'59		minimum elong	2047 Jun 25 01:16	3°♁29'20	0°46'32
	2043 Jan 11 04:08	0°♁		max. Earth dist.	2047 Jul 17 20:34	18°♁37'13	2.60675 AU
	2043 Feb 18 05:42	0°♄			2047 Aug 04 06:58	0°♁	
				morning rise	2047 Aug 14 04:35	6°♁23'48	
conjunction	2043 Feb 20 17:46	1°♄58'41	-1°-3'-14		2047 Sep 20 06:28	0°♁	
minimum elong	2043 Feb 20 19:11	2°♄01'28	1°03'16		2047 Nov 07 14:25	0°♁	
max. Earth dist.	2043 Mar 09 06:19	15°♄01'06	2.37120 AU		2047 Dec 27 21:25	0°♁	
	2043 Mar 28 08:55	0°♃			2048 Feb 21 17:49	0°♁	
morning rise	2043 May 02 13:30	27°♃04'04		desc. node	2048 Apr 19 02:05	19°♁35'17	
	2043 May 06 10:41	0°♂		retrograde	2048 Apr 30 16:52	20°♁22'25	
	2043 Jun 16 05:22	0°♁		opposition	2048 Jun 03 14:50	13°♁42'18	-2°-19'-17
asc. node	2043 Jun 28 16:40	8°♁51'44		greatest brilliancy	2048 Jun 04 16:17	13°♁20'53	-2.2m
	2043 Jul 29 08:30	0°♁		min. Earth dist.	2048 Jun 12 01:34	10°♁52'06	0.47367 AU
	2043 Sep 13 13:25	0°♁		direct	2048 Jul 10 22:37	5°♁31'04	
	2043 Nov 03 19:21	0°♁			2048 Sep 17 11:49	0°♁	
	2044 Jan 19 17:58	0°♁			2048 Nov 01 23:06	0°♁	
retrograde	2044 Jan 31 23:10	0°♁53'01			2048 Dec 13 01:51	0°♄	
	2044 Feb 12 17:25	30°♁			2049 Jan 22 11:53	0°♃	
opposition	2044 Mar 11 12:50	21°♁35'51	3°54'54	asc. node	2049 Feb 17 13:14	19°♃04'49	
greatest brilliancy	2044 Mar 12 00:06	21°♁24'46	-1.3m		2049 Mar 04 16:49	0°♂	
min. Earth dist.	2044 Mar 14 06:00	20°♁31'44	0.66709 AU		2049 Apr 16 10:13	0°♁	
direct	2044 Apr 21 23:35	11°♁34'47			2049 May 30 21:26	0°♁	
	2044 Jun 25 03:34	0°♁		evening set	2049 Jun 17 02:04	11°♁19'10	
desc. node	2044 Jul 15 04:22	10°♁17'10			2049 Jul 15 20:39	0°♁	
	2044 Aug 17 18:42	0°♁					
	2044 Oct 01 22:00	0°♁		conjunction	2049 Aug 04 15:15	12°♁41'49	1°08'11
	2044 Nov 12 02:47	0°♁		minimum elong	2049 Aug 04 14:54	12°♁41'15	1°08'11
	2044 Dec 21 03:02	0°♁		max. Earth dist.	2049 Aug 10 18:55	16°♁37'49	2.66653 AU
greatest brilliancy	2044 Dec 22 07:29	0°♁55'40	1.2m		2049 Aug 31 18:22	0°♁	
	2045 Jan 28 04:57	0°♄		morning rise	2049 Sep 19 02:30	11°♁39'17	
evening set	2045 Feb 25 11:22	22°♄14'28			2049 Oct 17 23:46	0°♁	
	2045 Mar 07 10:13	0°♃			2049 Dec 04 03:48	0°♁	
	2045 Apr 15 16:26	0°♂			2050 Jan 20 08:40	0°♁	
conjunction	2045 May 02 10:42	12°♂26'39	0°-8'-32	desc. node	2050 Mar 07 01:49	28°♁38'00	
minimum elong	2045 May 02 11:21	12°♂27'52	0°08'32		2050 Mar 09 07:07	0°♁	
behind sun begin	2045 May 01 12:36	11°♂46'01			2050 Apr 29 08:44	0°♁	
behind sun end	2045 May 03 10:07	13°♂09'40		retrograde	2050 Jul 15 06:01	26°♁42'24	
asc. node	2045 May 15 14:39	22°♂02'58		opposition	2050 Aug 14 07:51	21°♁45'16	-6°-51'-30
	2045 May 26 16:00	0°♁		greatest brilliancy	2050 Aug 14 18:52	21°♁37'57	-2.9m
max. Earth dist.	2045 Jun 14 21:05	13°♁33'41	2.49582 AU	min. Earth dist.	2050 Aug 15 12:47	21°♁26'02	0.37405 AU
morning rise	2045 Jul 01 08:51	24°♁57'11		direct	2050 Sep 13 11:01	16°♁42'38	
	2045 Jul 08 18:43	0°♁			2050 Oct 31 20:49	0°♄	
	2045 Aug 23 04:17	0°♁		asc. node	2050 Dec 23 09:07	0°♃	
	2045 Oct 10 01:54	0°♁			2051 Jan 05 10:54	8°♃19'22	
	2045 Nov 30 18:54	0°♁			2051 Feb 07 17:57	0°♂	
	2046 Feb 04 05:55	0°♁			2051 Mar 25 13:20	0°♁	
retrograde	2046 Mar 11 02:10	6°♁13'57			2051 May 11 00:15	0°♁	
					2051 Jun 27 04:23	0°♁	

evening set	2051 Jul 26 18:56	18°♊43'26		2056 Mar 17 23:34	0°♋	
	2051 Aug 13 14:14	0°♌		2056 Apr 25 11:53	0°♌	
max. Earth dist.	2051 Sep 03 00:43	12°♌59'36	2.67195 AU	2056 Jun 03 20:47	0°♍	
				2056 Jul 15 04:39	0°♎	
conjunction	2051 Sep 10 12:23	17°♌46'26	1°01'08	asc. node	2056 Aug 27 09:07	28°♎52'18
minimum elong	2051 Sep 10 13:18	17°♌47'53	1°01'07		2056 Aug 29 04:09	0°♏
	2051 Sep 29 13:36	0°♐			2056 Oct 22 04:24	0°♑
morning rise	2051 Oct 24 20:23	16°♐23'56		retrograde	2056 Dec 14 20:17	14°♑28'15
	2051 Nov 14 13:13	0°♒		min. Earth dist.	2057 Jan 21 08:56	5°♑36'49 0.65552 AU
	2051 Dec 29 07:10	0°♓		greatest brilliancy	2057 Jan 23 11:02	4°♑46'41 -1.3m
desc. node	2052 Jan 23 00:39	16°♓56'42		opposition	2057 Jan 24 01:31	4°♑32'11 4°27'22
	2052 Feb 10 19:54	0°♈			2057 Feb 05 01:06	30°♏
	2052 Mar 24 08:43	0°♉		direct	2057 Mar 04 13:32	25°♏09'36
	2052 May 05 10:59	0°♊			2057 Apr 03 21:30	0°♑
	2052 Jun 17 15:12	0°♋			2057 Jun 10 21:52	0°♌
	2052 Aug 06 16:31	0°♌			2057 Aug 01 17:27	0°♍
retrograde	2052 Sep 22 19:11	13°♌22'56		desc. node	2057 Sep 13 20:43	27°♍35'35
min. Earth dist.	2052 Oct 20 05:05	8°♌16'49	0.44090 AU		2057 Sep 17 11:26	0°♎
greatest brilliancy	2052 Oct 27 15:10	5°♌46'12	-2.5m		2057 Oct 30 19:41	0°♏
opposition	2052 Oct 28 06:33	5°♌33'09	-1°-29'-3	evening set	2057 Nov 25 13:38	18°♏45'16
	2052 Nov 18 09:06	30°♌			2057 Dec 10 14:32	0°♐
asc. node	2052 Nov 22 10:37	29°♌30'24		max. Earth dist.	2057 Dec 18 09:01	5°♐53'06 2.39736 AU
direct	2052 Nov 29 06:19	29°♌11'20			2058 Jan 18 15:25	0°♑
	2052 Dec 10 12:53	0°♍				
	2053 Feb 23 19:44	0°♎		conjunction	2058 Jan 23 20:22	4°♑04'11 -1°-2'-40
	2053 Apr 17 10:44	0°♏		minimum elong	2058 Jan 23 19:02	4°♑01'34 1°02'40
	2053 Jun 06 09:20	0°♑			2058 Feb 25 19:02	0°♋
	2053 Jul 25 01:52	0°♌		morning rise	2058 Apr 02 17:52	28°♋16'15
evening set	2053 Aug 31 19:55	23°♌51'11			2058 Apr 04 23:03	0°♌
	2053 Sep 10 09:28	0°♍			2058 May 14 00:36	0°♍
max. Earth dist.	2053 Sep 26 04:22	10°♍15'12	2.62323 AU		2058 Jun 23 19:18	0°♎
				asc. node	2058 Jul 15 08:01	15°♎10'21
conjunction	2053 Oct 16 16:58	23°♍47'53	0°30'16		2058 Aug 06 02:29	0°♏
minimum elong	2053 Oct 16 17:55	23°♍49'29	0°30'15		2058 Sep 22 01:47	0°♑
	2053 Oct 25 23:26	0°♎			2058 Nov 15 18:22	0°♌
morning rise	2053 Dec 02 06:18	25°♎31'26		retrograde	2059 Jan 18 05:58	18°♌09'37
	2053 Dec 08 15:51	0°♏		opposition	2059 Feb 27 05:30	8°♌37'09 4°19'02
desc. node	2053 Dec 09 23:20	0°♏55'18		greatest brilliancy	2059 Feb 27 10:16	8°♌32'25 -1.2m
	2054 Jan 19 13:21	0°♐		min. Earth dist.	2059 Feb 28 10:25	8°♌08'28 0.67681 AU
	2054 Mar 01 00:07	0°♑			2059 Mar 26 01:40	30°♑
	2054 Apr 09 13:06	0°♋		direct	2059 Apr 09 09:47	28°♑41'36
	2054 May 19 00:02	0°♌			2059 Apr 24 10:39	0°♌
	2054 Jun 28 14:48	0°♍			2059 Jul 08 12:47	0°♍
	2054 Aug 11 18:05	0°♎		desc. node	2059 Aug 01 19:29	13°♍55'22
	2054 Oct 08 19:53	0°♏			2059 Aug 27 15:38	0°♎
asc. node	2054 Oct 10 10:38	0°♏33'10			2059 Oct 10 22:30	0°♏
retrograde	2054 Nov 08 18:42	5°♏54'22			2059 Nov 20 21:10	0°♐
	2054 Dec 08 00:45	30°♏			2059 Dec 29 19:43	0°♑
min. Earth dist.	2054 Dec 11 11:36	28°♏41'58	0.57014 AU	evening set	2060 Jan 29 00:28	23°♑47'53
greatest brilliancy	2054 Dec 16 21:51	26°♏35'00	-1.7m		2060 Feb 05 20:36	0°♋
opposition	2054 Dec 17 22:14	26°♏11'11	2°57'52		2060 Mar 15 00:04	0°♌
direct	2055 Jan 23 10:01	17°♏53'08				
	2055 Mar 14 15:21	0°♏		conjunction	2060 Apr 06 03:54	17°♌07'03 0°-35'-15
	2055 May 14 08:41	0°♑		minimum elong	2060 Apr 06 06:42	17°♌12'25 0°35'14
	2055 Jul 05 07:04	0°♌			2060 Apr 23 03:27	0°♍
	2055 Aug 22 18:43	0°♍		max. Earth dist.	2060 May 26 20:47	24°♍52'36 2.44210 AU
	2055 Oct 07 12:49	0°♎		asc. node	2060 Jun 01 07:34	28°♍48'11
evening set	2055 Oct 09 23:32	1°♎39'11			2060 Jun 02 23:37	0°♎
max. Earth dist.	2055 Oct 25 20:59	12°♎31'16	2.52486 AU	morning rise	2060 Jun 10 09:48	5°♎17'37
desc. node	2055 Oct 27 22:10	13°♎56'18			2060 Jul 16 00:23	0°♏
	2055 Nov 19 18:55	0°♏			2060 Aug 30 13:27	0°♑
					2060 Oct 18 06:09	0°♌
conjunction	2055 Nov 28 13:51	6°♏17'46	0°-18'-52		2060 Dec 12 03:06	0°♍
minimum elong	2055 Nov 28 12:59	6°♏16'13	0°18'52	retrograde	2061 Feb 22 22:43	22°♍04'14
	2055 Dec 30 21:25	0°♐		opposition	2061 Apr 02 12:52	13°♍18'16 2°50'54
morning rise	2056 Jan 21 21:54	16°♐36'25		greatest brilliancy	2061 Apr 03 06:00	13°♍01'44 -1.4m
	2056 Feb 08 09:23	0°♑		min. Earth dist.	2061 Apr 07 13:47	11°♍21'44 0.63199 AU

direct	2061 May 13 21:40	3°♁19'08		max. Earth dist.	2066 Aug 25 00:15	2°♃57'13	2.67633 AU
desc. node	2061 Jun 18 19:15	10°♁17'16					
	2061 Jul 31 03:59	0°♃		conjunction	2066 Aug 27 09:57	4°♃28'59	1°06'54
	2061 Sep 17 11:40	0°♂		minimum elong	2066 Aug 27 10:28	4°♃29'49	1°06'54
	2061 Oct 29 15:43	0°♄			2066 Oct 06 08:51	0°♁	
	2061 Dec 08 01:35	0°♁		morning rise	2066 Oct 10 19:54	2°♁51'55	
	2062 Jan 15 09:19	0°♂			2066 Nov 21 16:48	0°♃	
	2062 Feb 22 20:09	0°♃			2067 Jan 06 03:54	0°♂	
	2062 Apr 03 08:47	0°♂		desc. node	2067 Feb 08 16:09	22°♂27'50	
evening set	2062 Apr 07 23:04	3°♂24'41			2067 Feb 19 19:59	0°♄	
asc. node	2062 Apr 19 05:28	11°♂42'13			2067 Apr 05 01:36	0°♁	
	2062 May 14 14:54	0°♂			2067 May 19 21:50	0°♂	
					2067 Jul 08 21:53	0°♃	
conjunction	2062 Jun 06 06:04	15°♂51'29	0°29'06	retrograde	2067 Aug 31 00:18	16°♃06'06	
minimum elong	2062 Jun 06 04:34	15°♂48'53	0°29'04	min. Earth dist.	2067 Sep 26 12:50	11°♃35'14	0.39669 AU
	2062 Jun 26 22:16	0°♄		greatest brilliancy	2067 Oct 01 17:02	10°♃02'37	-2.7m
max. Earth dist.	2062 Jul 06 12:21	6°♄27'14	2.56900 AU	opposition	2067 Oct 02 19:54	9°♃42'25	-4°-12'-1
morning rise	2062 Jul 29 09:37	21°♄37'01		direct	2067 Nov 02 02:55	4°♃16'10	
	2062 Aug 11 06:14	0°♃		asc. node	2067 Dec 10 03:11	12°♃26'55	
	2062 Sep 27 10:42	0°♄			2068 Jan 16 08:04	0°♂	
	2062 Nov 15 15:17	0°♁			2068 Mar 08 08:31	0°♂	
	2063 Jan 07 14:56	0°♃			2068 Apr 26 11:31	0°♄	
	2063 Mar 23 09:39	0°♂			2068 Jun 14 00:15	0°♃	
retrograde	2063 Apr 09 06:15	1°♂36'41			2068 Aug 01 01:43	0°♄	
	2063 Apr 25 06:58	30°♃		evening set	2068 Aug 17 10:37	10°♃20'15	
desc. node	2063 May 06 17:56	26°♃58'14		max. Earth dist.	2068 Sep 16 14:44	29°♃37'42	2.64857 AU
opposition	2063 May 14 22:20	24°♃10'46	0°-23'-11		2068 Sep 17 04:33	0°♁	
greatest brilliancy	2063 May 15 02:48	24°♃06'47	-1.9m				
min. Earth dist.	2063 May 23 01:48	21°♃16'04	0.52638 AU	conjunction	2068 Oct 01 21:50	9°♁33'14	0°44'48
direct	2063 Jun 23 04:41	15°♃05'43		minimum elong	2068 Oct 01 22:58	9°♁35'04	0°44'47
	2063 Aug 14 10:59	0°♂			2068 Nov 01 21:00	0°♃	
	2063 Oct 03 10:18	0°♄		morning rise	2068 Nov 16 02:55	9°♃34'55	
	2063 Nov 14 07:24	0°♁			2068 Dec 15 21:36	0°♂	
	2063 Dec 23 23:02	0°♂		desc. node	2068 Dec 26 15:01	7°♂29'11	
	2064 Feb 01 10:31	0°♃			2069 Jan 27 07:20	0°♄	
asc. node	2064 Mar 06 04:38	25°♃05'49			2069 Mar 09 08:46	0°♁	
	2064 Mar 12 21:49	0°♂			2069 Apr 18 13:35	0°♂	
	2064 Apr 24 00:50	0°♂			2069 May 28 19:05	0°♃	
evening set	2064 May 30 18:44	25°♂07'58			2069 Jul 09 17:30	0°♂	
	2064 Jun 07 01:06	0°♄			2069 Aug 27 00:52	0°♂	
				retrograde	2069 Oct 23 06:14	18°♂04'06	
conjunction	2064 Jul 20 10:02	28°♄30'15	1°03'34	asc. node	2069 Oct 27 01:56	17°♂57'43	
minimum elong	2064 Jul 20 09:04	28°♄28'40	1°03'34	min. Earth dist.	2069 Nov 22 19:09	11°♂39'58	0.52220 AU
	2064 Jul 22 17:29	0°♃		greatest brilliancy	2069 Nov 29 16:09	9°♂04'27	-2.0m
max. Earth dist.	2064 Aug 01 16:03	6°♃24'49	2.64965 AU	opposition	2069 Nov 30 10:19	8°♂47'18	1°42'02
morning rise	2064 Sep 05 04:51	28°♃29'09		direct	2070 Jan 04 08:13	1°♂07'19	
	2064 Sep 07 14:03	0°♄			2070 Mar 30 11:22	0°♄	
	2064 Oct 25 02:23	0°♁			2070 May 23 15:42	0°♃	
	2064 Dec 12 02:43	0°♃			2070 Jul 12 22:14	0°♄	
	2065 Jan 30 05:30	0°♂			2070 Aug 29 20:00	0°♁	
desc. node	2065 Mar 23 16:29	29°♂52'35		evening set	2070 Sep 24 03:47	16°♁27'43	
	2065 Mar 23 22:06	0°♄		max. Earth dist.	2070 Oct 13 04:40	29°♁08'35	2.56876 AU
retrograde	2065 Jun 12 20:01	27°♄23'12			2070 Oct 14 11:11	0°♃	
opposition	2065 Jul 13 21:02	22°♄02'13	-5°-45'-44				
greatest brilliancy	2065 Jul 15 09:57	21°♄35'44	-2.7m	conjunction	2070 Nov 10 18:25	18°♃42'08	0°01'42
min. Earth dist.	2065 Jul 19 19:44	20°♄20'27	0.39959 AU	minimum elong	2070 Nov 10 18:29	18°♃42'15	0°01'41
direct	2065 Aug 15 14:42	15°♄55'30		behind sun begin	2070 Nov 09 22:04	18°♃06'46	
	2065 Oct 03 19:22	0°♁		behind sun end	2070 Nov 11 14:54	19°♃17'46	
	2065 Nov 22 21:22	0°♂		desc. node	2070 Nov 13 13:33	20°♃39'07	
	2066 Jan 05 18:42	0°♃			2070 Nov 26 20:29	0°♂	
asc. node	2066 Jan 22 04:17	11°♃23'40		morning rise	2070 Dec 31 03:13	24°♂46'02	
	2066 Feb 18 01:26	0°♂			2071 Jan 07 05:20	0°♄	
	2066 Apr 03 04:49	0°♂			2071 Feb 16 00:53	0°♁	
	2066 May 18 15:35	0°♄			2071 Mar 26 22:14	0°♂	
	2066 Jul 04 05:25	0°♃			2071 May 04 16:43	0°♃	
evening set	2066 Jul 11 22:58	4°♃55'54			2071 Jun 13 08:27	0°♂	
	2066 Aug 20 08:48	0°♄			2071 Jul 25 05:43	0°♂	

	2071 Sep 10 00:25	0°☉		desc. node	2076 Jul 05 10:27	9°♁26'58	
asc. node	2071 Sep 14 01:54	2°♁21'12			2076 Aug 11 11:49	0°♁	
	2071 Nov 22 13:07	0°♁			2076 Sep 26 12:25	0°♁	
retrograde	2071 Dec 02 01:25	0°♁35'23			2076 Nov 07 00:28	0°♁	
	2071 Dec 11 07:31	30°♁			2076 Dec 16 03:54	0°♁	
min. Earth dist.	2072 Jan 06 20:16	22°♁18'31	0.62938 AU		2077 Jan 23 07:31	0°♁	
greatest brilliancy	2072 Jan 10 04:17	20°♁58'43	-1.4m		2077 Mar 02 14:00	0°♁	
opposition	2072 Jan 11 01:03	20°♁37'58	4°07'06	evening set	2077 Mar 13 01:28	8°♁05'56	
direct	2072 Feb 18 12:41	11°♁35'58			2077 Apr 10 21:28	0°♁	
	2072 Apr 23 23:07	0°♁		asc. node	2077 May 05 22:40	18°♁29'21	
	2072 Jun 20 10:28	0°♁					
	2072 Aug 09 12:30	0°♁		conjunction	2077 May 15 20:34	25°♁39'24	0°06'22
	2072 Sep 24 18:18	0°♁		minimum elong	2077 May 15 20:07	25°♁38'36	0°06'22
desc. node	2072 Sep 30 12:55	3°♁53'46		behind sun begin	2077 May 14 20:38	24°♁56'23	
evening set	2072 Nov 05 11:16	28°♁53'26		behind sun end	2077 May 16 19:36	26°♁20'45	
	2072 Nov 07 00:33	0°♁			2077 May 21 22:05	0°♁	
max. Earth dist.	2072 Nov 20 06:04	9°♁32'39	2.44687 AU	max. Earth dist.	2077 Jun 23 12:10	22°♁48'39	2.52339 AU
	2072 Dec 17 21:27	0°♁			2077 Jul 04 00:59	0°♁	
				morning rise	2077 Jul 12 02:45	5°♁27'09	
conjunction	2072 Dec 30 02:53	9°♁14'58	0°-49'-51		2077 Aug 18 08:23	0°♁	
minimum elong	2072 Dec 30 00:45	9°♁10'54	0°49'50		2077 Oct 04 21:25	0°♁	
	2073 Jan 26 01:48	0°♁			2077 Nov 24 09:45	0°♁	
greatest brilliancy	2073 Feb 21 02:20	20°♁21'18	1.2m		2078 Jan 21 16:27	0°♁	
morning rise	2073 Mar 03 10:04	28°♁28'18		retrograde	2078 Mar 21 00:42	15°♁16'21	
	2073 Mar 05 08:40	0°♁		opposition	2078 Apr 27 01:37	7°♁13'44	1°08'02
	2073 Apr 12 14:49	0°♁		greatest brilliancy	2078 Apr 27 13:00	7°♁03'09	-1.7m
	2073 May 21 17:41	0°♁		min. Earth dist.	2078 May 04 05:01	4°♁34'24	0.57392 AU
	2073 Jul 01 14:40	0°♁			2078 May 18 14:43	30°♁	
asc. node	2073 Aug 01 00:22	21°♁08'58		desc. node	2078 May 23 09:14	28°♁57'14	
	2073 Aug 14 06:12	0°♁		direct	2078 Jun 06 12:49	27°♁36'45	
	2073 Oct 01 13:55	0°♁			2078 Jun 26 04:04	0°♁	
	2073 Dec 04 06:56	0°♁			2078 Aug 30 16:40	0°♁	
retrograde	2074 Jan 04 21:00	5°♁28'06			2078 Oct 14 13:11	0°♁	
	2074 Feb 02 23:00	30°♁			2078 Nov 23 23:41	0°♁	
min. Earth dist.	2074 Feb 13 18:17	25°♁51'16	0.67645 AU		2079 Jan 01 21:43	0°♁	
opposition	2074 Feb 14 01:57	25°♁43'37	4°31'37		2079 Feb 09 20:05	0°♁	
greatest brilliancy	2074 Feb 13 23:13	25°♁46'21	-1.2m		2079 Mar 21 19:47	0°♁	
direct	2074 Mar 26 18:09	15°♁57'51		asc. node	2079 Mar 23 21:56	1°♁32'10	
	2074 May 21 07:28	0°♁			2079 May 02 12:22	0°♁	
	2074 Jul 18 12:45	0°♁		evening set	2079 May 12 14:49	7°♁03'55	
desc. node	2074 Aug 18 12:02	18°♁49'23			2079 Jun 15 04:00	0°♁	
	2074 Sep 04 20:18	0°♁					
	2074 Oct 18 15:23	0°♁		conjunction	2079 Jul 05 01:18	13°♁15'23	0°54'14
	2074 Nov 28 11:11	0°♁		minimum elong	2079 Jul 04 23:48	13°♁12'56	0°54'12
evening set	2075 Jan 01 14:37	26°♁15'15		max. Earth dist.	2079 Jul 23 21:12	25°♁36'35	2.62418 AU
	2075 Jan 06 09:39	0°♁			2079 Jul 30 15:14	0°♁	
	2075 Feb 13 10:36	0°♁		morning rise	2079 Aug 22 18:33	14°♁54'02	
					2079 Sep 15 12:27	0°♁	
conjunction	2075 Mar 09 06:50	18°♁49'22	0°-56'-39		2079 Nov 02 11:23	0°♁	
minimum elong	2075 Mar 09 09:42	18°♁55'00	0°56'39		2079 Dec 21 17:46	0°♁	
	2075 Mar 23 13:06	0°♁			2080 Feb 12 04:12	0°♁	
max. Earth dist.	2075 Apr 24 22:46	24°♁58'02	2.38970 AU	desc. node	2080 Apr 09 08:09	26°♁10'50	
	2075 May 01 14:27	0°♁			2080 Apr 22 13:42	0°♁	
morning rise	2075 May 18 01:40	12°♁18'07		retrograde	2080 May 14 22:20	2°♁48'48	
	2075 Jun 11 08:27	0°♁			2080 Jun 05 07:23	30°♁	
asc. node	2075 Jun 18 22:43	5°♁25'27		opposition	2080 Jun 16 20:26	26°♁36'46	-3°-34'-37
	2075 Jul 24 09:04	0°♁		greatest brilliancy	2080 Jun 18 07:24	26°♁08'37	-2.4m
	2075 Sep 08 05:37	0°♁		min. Earth dist.	2080 Jun 24 22:45	24°♁01'24	0.44498 AU
	2075 Oct 28 05:29	0°♁		direct	2080 Jul 22 17:04	19°♁05'24	
	2075 Dec 29 03:47	0°♁			2080 Sep 03 07:11	0°♁	
retrograde	2076 Feb 09 02:07	8°♁45'22			2080 Oct 24 14:22	0°♁	
	2076 Mar 18 10:41	30°♁			2080 Dec 06 06:20	0°♁	
opposition	2076 Mar 19 08:54	29°♁38'19	3°35'03		2081 Jan 16 11:26	0°♁	
greatest brilliancy	2076 Mar 19 23:02	29°♁24'29	-1.3m	asc. node	2081 Feb 07 20:11	16°♁10'25	
min. Earth dist.	2076 Mar 22 22:22	28°♁14'45	0.65743 AU		2081 Feb 27 05:00	0°♁	
direct	2076 Apr 29 20:55	19°♁36'13			2081 Apr 11 07:37	0°♁	
	2076 Jun 14 11:03	0°♁			2081 May 26 01:21	0°♁	



evening set	2081 Jun 26 09:34	20°☾27'30			2086 Aug 04 08:51	0°♁		
	2081 Jul 11 04:38	0°♁			2086 Sep 24 09:13	0°☾		
conjunction	2081 Aug 13 01:25	21°♁01'35	1°08'53	asc. node	2086 Sep 30 16:55	3°☾00'26		
minimum elong	2081 Aug 13 01:24	21°♁01'34	1°08'53	retrograde	2086 Nov 17 14:09	15°☾38'09		
max. Earth dist.	2081 Aug 16 01:27	22°♁56'20	2.67228 AU	min. Earth dist.	2086 Dec 21 10:46	8°☾00'49	0.59386 AU	
	2081 Aug 27 03:38	0°♁		greatest brilliancy	2086 Dec 26 02:09	6°☾10'59	-1.6m	
morning rise	2081 Sep 27 00:35	19°♁38'55		opposition	2086 Dec 27 02:36	5°☾46'48	3°29'40	
	2081 Oct 13 06:16	0°♁		direct	2087 Jan 12 17:10	30°♁		
	2081 Nov 29 01:53	0°♁			2087 Feb 02 08:57	27°♁11'00		
	2082 Jan 14 12:55	0°♁			2087 Feb 24 16:34	0°☾		
desc. node	2082 Feb 25 07:06	26°♁59'20			2087 May 07 12:06	0°♁		
	2082 Mar 01 23:26	0°☾			2087 Jun 29 22:15	0°♁		
	2082 Apr 18 10:32	0°♁			2087 Aug 17 22:05	0°♁		
	2082 Jun 10 13:44	0°♁		desc. node	2087 Oct 02 20:30	0°♁		
retrograde	2082 Aug 02 04:15	14°♁56'19		evening set	2087 Oct 18 04:16	10°♁25'30		
min. Earth dist.	2082 Aug 30 18:53	10°♁16'25	0.37356 AU	max. Earth dist.	2087 Oct 19 11:39	11°♁19'29		
greatest brilliancy	2082 Sep 01 08:45	9°♁51'04	-2.9m		2087 Nov 03 05:58	21°♁35'30	2.49834 AU	
opposition	2082 Sep 01 17:38	9°♁45'07	-6°-27'-8		2087 Nov 15 03:12	0°♁		
direct	2082 Oct 01 04:11	4°♁50'45		conjunction	2087 Dec 09 13:22	17°♁40'48	0°-30'-46	
	2082 Dec 12 10:09	0°♁		minimum elong	2087 Dec 09 11:55	17°♁38'09	0°30'45	
asc. node	2082 Dec 26 19:15	8°♁14'08			2087 Dec 26 04:12	0°☾		
	2083 Jan 31 09:07	0°♁			2088 Feb 03 13:40	0°♁		
	2083 Mar 19 14:33	0°☾		morning rise	2088 Feb 04 17:18	0°♁53'25		
	2083 May 05 18:44	0°☾			2088 Mar 13 01:11	0°♁		
	2083 Jun 22 08:21	0°♁			2088 Apr 20 10:39	0°♁		
evening set	2083 Aug 04 01:55	26°♁54'55			2088 May 29 16:05	0°♁		
	2083 Aug 08 23:01	0°♁			2088 Jul 09 17:47	0°♁		
max. Earth dist.	2083 Sep 08 07:15	19°♁17'38	2.66587 AU	asc. node	2088 Aug 17 16:33	26°♁32'57		
					2088 Aug 23 00:21	0°☾		
conjunction	2083 Sep 18 14:20	25°♁53'46	0°56'06		2088 Oct 12 22:00	0°♁		
minimum elong	2083 Sep 18 15:22	25°♁55'27	0°56'06	retrograde	2088 Dec 22 14:08	22°♁34'46		
	2083 Sep 24 23:18	0°♁		min. Earth dist.	2089 Jan 30 00:18	13°♁25'45	0.66577 AU	
morning rise	2083 Nov 02 02:28	24°♁52'33		greatest brilliancy	2089 Jan 31 09:57	12°♁52'04	-1.3m	
	2083 Nov 09 20:10	0°♁		opposition	2089 Jan 31 20:21	12°♁41'38	4°32'43	
	2083 Dec 24 07:17	0°♁		direct	2089 Mar 12 19:35	3°♁09'31		
desc. node	2084 Jan 13 06:50	13°♁48'12			2089 Jun 03 19:02	0°♁		
	2084 Feb 05 09:02	0°☾			2089 Jul 27 06:45	0°♁		
	2084 Mar 18 06:45	0°♁		desc. node	2089 Sep 04 02:54	24°♁27'15		
	2084 Apr 28 12:15	0°♁			2089 Sep 12 12:47	0°♁		
	2084 Jun 09 04:23	0°♁			2089 Oct 26 01:02	0°♁		
	2084 Jul 24 07:17	0°♁			2089 Dec 05 20:31	0°☾		
retrograde	2084 Oct 04 14:31	27°♁16'21		evening set	2089 Dec 08 02:25	1°☾41'49		
min. Earth dist.	2084 Nov 02 00:27	21°♁43'29	0.46985 AU		2090 Jan 13 20:42	0°♁		
opposition	2084 Nov 10 06:06	18°♁48'01	0°-8'-26	max. Earth dist.	2090 Jan 15 22:09	1°♁36'36	2.37599 AU	
greatest brilliancy	2084 Nov 10 04:26	18°♁49'29	-2.3m					
asc. node	2084 Nov 12 18:35	17°♁54'53		conjunction	2090 Feb 08 05:27	19°♁55'56	-1°-4'-50	
direct	2084 Dec 13 07:34	11°♁55'50		minimum elong	2090 Feb 08 05:31	19°♁56'05	1°04'50	
	2085 Feb 13 13:47	0°♁			2090 Feb 20 23:25	0°♁		
	2085 Apr 10 23:38	0°☾			2090 Mar 31 02:36	0°♁		
	2085 Jun 01 01:46	0°♁		morning rise	2090 Apr 19 20:00	15°♁17'12		
	2085 Jul 20 05:59	0°♁			2090 May 09 03:21	0°♁		
	2085 Sep 05 18:19	0°♁			2090 Jun 18 20:40	0°♁		
evening set	2085 Sep 09 03:26	2°♁10'44		asc. node	2090 Jul 05 16:06	11°♁55'28		
max. Earth dist.	2085 Oct 02 02:53	17°♁10'26	2.60603 AU		2090 Jul 31 23:23	0°☾		
	2085 Oct 21 08:59	0°♁			2090 Sep 16 08:55	0°♁		
					2090 Nov 07 15:03	0°♁		
conjunction	2085 Oct 25 11:03	2°♁45'17	0°20'32	retrograde	2091 Jan 26 01:34	25°♁54'49		
minimum elong	2085 Oct 25 11:46	2°♁46'30	0°20'31	opposition	2091 Mar 06 20:13	16°♁30'27	4°06'11	
desc. node	2085 Nov 30 05:54	27°♁23'13		greatest brilliancy	2091 Mar 07 04:46	16°♁22'00	-1.2m	
	2085 Dec 03 23:08	0°♁		min. Earth dist.	2091 Mar 08 21:35	15°♁41'41	0.67272 AU	
morning rise	2085 Dec 12 02:21	5°♁45'06		direct	2091 Apr 17 04:39	6°♁31'07		
	2086 Jan 14 16:07	0°☾			2091 Jun 30 23:35	0°♁		
	2086 Feb 23 20:58	0°♁		desc. node	2091 Jul 23 01:58	11°♁58'10		
	2086 Apr 04 03:30	0°♁			2091 Aug 21 23:54	0°♁		
	2086 May 13 06:47	0°♁			2091 Oct 05 19:34	0°♁		
	2086 Jun 22 09:59	0°♁			2091 Nov 15 22:38	0°☾		

	2091 Dec 24 22:39	0°≈		max. Earth dist.	2096 Aug 07 02:59	12°♊52'43	2.66003 AU
	2092 Feb 01 00:07	0°✠			2096 Sep 02 23:00	0°♎	
evening set	2092 Feb 14 01:17	10°✠18'25		morning rise	2096 Sep 13 05:05	6°♎30'49	
greatest brilliancy	2092 Feb 14 12:00	10°✠39'32	1.2m		2096 Oct 20 06:57	0°♌	
	2092 Mar 10 03:59	0°♑			2096 Dec 06 19:12	0°♍	
	2092 Apr 18 07:55	0°♄			2097 Jan 23 17:30	0°♁	
				desc. node	2097 Mar 13 23:17	29°♁50'04	
conjunction	2092 Apr 21 09:35	2°♄18'10	0°-20'-6		2097 Mar 14 06:04	0°♄	
minimum elong	2092 Apr 21 11:14	2°♄21'15	0°20'07		2097 May 09 13:52	0°≈	
asc. node	2092 May 22 14:22	25°♄15'17		retrograde	2097 Jun 30 22:44	13°≈48'04	
	2092 May 29 04:45	0°♁		opposition	2097 Jul 31 03:37	8°≈46'50	-6°-37'-15
max. Earth dist.	2092 Jun 07 09:12	6°♁32'33	2.47220 AU	greatest brilliancy	2097 Aug 01 05:38	8°≈29'10	-2.8m
morning rise	2092 Jun 22 16:12	17°♁16'04		min. Earth dist.	2097 Aug 03 18:10	7°≈48'08	0.38187 AU
	2092 Jul 11 04:59	0°♄		direct	2097 Aug 31 06:58	3°≈21'53	
	2092 Aug 25 14:22	0°♊			2097 Nov 11 19:58	0°✠	
	2092 Oct 12 17:30	0°♎			2097 Dec 29 00:58	0°♑	
	2092 Dec 04 10:18	0°♌		asc. node	2098 Jan 12 10:35	9°♑37'09	
	2093 Feb 22 16:12	0°♍			2098 Feb 11 17:41	0°♄	
retrograde	2093 Mar 03 23:50	0°♍30'39			2098 Mar 28 16:27	0°♁	
	2093 Mar 13 01:06	30°♌			2098 May 13 14:52	0°♄	
opposition	2093 Apr 11 02:19	21°♌58'34	2°18'00		2098 Jun 29 11:46	0°♊	
greatest brilliancy	2093 Apr 11 19:09	21°♌42'30	-1.5m	evening set	2098 Jul 20 12:26	13°♊20'54	
min. Earth dist.	2093 Apr 16 22:14	19°♌45'06	0.61383 AU		2098 Aug 15 18:26	0°♎	
direct	2093 May 22 05:59	12°♌04'20		max. Earth dist.	2098 Aug 30 05:10	9°♎11'07	2.67501 AU
desc. node	2093 Jun 09 00:31	13°♌58'55					
	2093 Jul 22 03:46	0°♍		conjunction	2098 Sep 04 12:02	12°♎33'10	1°03'58
	2093 Sep 11 04:53	0°♁		minimum elong	2098 Sep 04 12:47	12°♎34'22	1°03'58
	2093 Oct 24 02:18	0°♄			2098 Oct 01 18:11	0°♌	
	2093 Dec 02 19:16	0°≈		morning rise	2098 Oct 18 19:20	11°♌00'13	
	2094 Jan 10 07:03	0°✠			2098 Nov 16 21:55	0°♍	
	2094 Feb 17 20:48	0°♑			2098 Dec 31 23:35	0°♁	
	2094 Mar 29 11:58	0°♄		desc. node	2099 Jan 29 22:30	19°♁39'38	
asc. node	2094 Apr 09 13:33	8°♄09'51			2099 Feb 13 23:59	0°♄	
evening set	2094 Apr 21 05:44	16°♄40'17			2099 Mar 29 04:49	0°≈	
	2094 May 09 20:30	0°♁			2099 May 11 06:04	0°✠	
					2099 Jun 25 06:24	0°♑	
conjunction	2094 Jun 17 05:44	26°♁37'12	0°39'49		2099 Aug 26 01:40	0°♄	
minimum elong	2094 Jun 17 04:04	26°♁34'21	0°39'47	retrograde	2099 Sep 13 23:01	2°♄29'23	
	2094 Jun 22 05:28	0°♄			2099 Oct 02 17:59	30°♑	
max. Earth dist.	2094 Jul 13 04:31	14°♄01'18	2.59082 AU	min. Earth dist.	2099 Oct 10 18:41	27°♑42'30	0.41921 AU
	2094 Aug 06 13:30	0°♊		greatest brilliancy	2099 Oct 17 08:54	25°♑35'18	-2.6m
morning rise	2094 Aug 07 13:48	0°♊39'26		opposition	2099 Oct 18 08:05	25°♑16'34	-2°-37'-28
	2094 Sep 22 13:54	0°♎		direct	2099 Nov 18 11:43	19°♑20'25	
	2094 Nov 10 04:56	0°♌		asc. node	2099 Nov 30 09:58	20°♑15'13	
	2094 Dec 31 10:11	0°♍			2100 Jan 02 03:46	0°♄	
retrograde	2095 Mar 01 06:13	0°♁			2100 Mar 01 19:44	0°♁	
	2095 Apr 21 13:03	12°♁22'11			2100 Apr 21 15:49	0°♄	
desc. node	2095 Apr 26 23:21	12°♁11'11			2100 Jun 09 22:18	0°♊	
opposition	2095 May 26 06:25	5°♁20'32	-1°-26'-46		2100 Jul 28 08:10	0°♎	
greatest brilliancy	2095 May 26 22:56	5°♁06'11	-2.1m				
min. Earth dist.	2095 Jun 03 16:04	2°♁25'37	0.49748 AU				
	2095 Jun 11 10:02	30°♍					
direct	2095 Jul 03 12:47	26°♍42'11					
	2095 Jul 26 03:46	0°♁					
	2095 Sep 25 01:39	0°♄					
	2095 Nov 07 14:24	0°≈					
	2095 Dec 17 23:17	0°✠					
	2096 Jan 26 21:37	0°♑					
asc. node	2096 Feb 25 12:53	21°♑53'13					
	2096 Mar 07 16:58	0°♄					
	2096 Apr 19 02:26	0°♁					
	2096 Jun 02 07:16	0°♄					
evening set	2096 Jun 09 19:53	4°♄59'37					
	2096 Jul 18 02:27	0°♊					
conjunction	2096 Jul 29 05:26	7°♊10'11	1°06'47				
minimum elong	2096 Jul 29 04:48	7°♊09'12	1°06'46				