

conjunction	11601 Feb 26 09:47	13° H 41'06	-0°45'19		11605 Nov 26 09:15	0° M	
minimum elong	11601 Feb 26 08:43	13° H 39'23	0°45'02		11606 Jan 06 13:27	0° J	
	11601 Mar 23 22:10	0° Y			11606 Feb 20 15:09	0° Z	
morning rise	11601 Apr 10 18:15	11° Y 30'47			11606 Apr 17 02:47	0° \approx	
	11601 May 09 01:25	0° B		retrograde	11606 Jun 04 08:38	11° \approx 56'48	
	11601 Jun 22 23:36	0° II		min. Earth dist.	11606 Jul 12 00:59	3° \approx 07'19	0.65864 AU
	11601 Aug 05 15:08	0° G		opposition	11606 Jul 14 22:47	1° \approx 57'51	0°10'57
	11601 Sep 17 03:53	0° Ω		greatest brilliancy	11606 Jul 14 22:24	1° \approx 58'13	-1.4m
	11601 Oct 29 03:17	0° M		desc. node	11606 Jul 19 22:16	0° \approx 00'37	
asc. node	11601 Nov 27 17:39	20° M 49'11			11606 Jul 19 22:55	30° R Z	
	11601 Dec 11 05:58	0° L		direct	11606 Aug 23 17:28	22° Z 36'25	
	11602 Jan 31 10:48	0° M			11606 Oct 01 12:14	0° \approx	
retrograde	11602 Mar 13 10:55	10° M 36'00			11606 Dec 05 10:35	0° H	
min. Earth dist.	11602 Apr 09 02:02	5° M 42'34	0.43538 AU		11607 Jan 25 16:46	0° Y	
greatest brilliancy	11602 Apr 15 17:09	3° M 30'15	-2.5m		11607 Mar 13 01:11	0° B	
opposition	11602 Apr 17 11:07	2° M 54'58	6°08'43		11607 Apr 25 02:03	0° II	
	11602 Apr 26 17:39	30° R L		evening set	11607 May 12 06:20	12° II 31'03	
direct	11602 May 19 08:09	26° L 39'04		max. Earth dist.	11607 May 30 22:48	26° II 27'05	2.39967 AU
	11602 Jun 12 00:56	0° M			11607 Jun 04 15:26	0° G	
	11602 Aug 19 00:41	0° J					
	11602 Oct 10 16:00	0° Z		conjunction	11607 Jul 12 07:16	29° G 03'13	-0°05'26
desc. node	11602 Oct 14 08:16	2° Z 10'05		minimum elong	11607 Jul 12 07:50	29° G 04'20	0°06'07
	11602 Nov 29 18:33	0° \approx		behind sun begin	11607 Jul 11 05:12	28° G 12'15	
	11603 Jan 17 12:47	0° H		behind sun end	11607 Jul 13 10:29	29° G 56'27	
evening set	11603 Feb 17 14:52	19° H 35'55			11607 Jul 13 12:17	0° Ω	
	11603 Mar 05 20:06	0° Y		asc. node	11607 Jul 19 19:24	4° Ω 56'25	
max. Earth dist.	11603 Mar 15 08:20	6° Y 09'47	2.63268 AU		11607 Aug 20 12:34	0° M	
				morning rise	11607 Sep 22 22:12	26° M 22'29	
conjunction	11603 Apr 03 08:25	18° Y 37'48	-1°07'31		11607 Sep 27 13:12	0° L	
minimum elong	11603 Apr 03 07:49	18° Y 36'48	1°07'42		11607 Nov 05 11:22	0° M	
	11603 Apr 20 09:36	0° B			11607 Dec 16 03:36	0° J	
morning rise	11603 May 19 12:24	19° B 51'07			11608 Jan 28 11:01	0° Z	
	11603 Jun 03 02:04	0° II			11608 Mar 15 18:54	0° \approx	
	11603 Jul 14 23:11	0° G			11608 May 11 05:09	0° H	
	11603 Aug 24 07:58	0° Ω		desc. node	11608 Jun 05 22:41	9° H 47'29	
	11603 Oct 02 16:50	0° M		retrograde	11608 Jul 07 10:26	15° H 01'48	
asc. node	11603 Oct 15 11:21	9° M 47'58		opposition	11608 Aug 16 20:10	5° H 25'09	-2°24'12
	11603 Nov 10 21:48	0° L		greatest brilliancy	11608 Aug 16 20:50	5° H 24'30	-1.3m
	11603 Dec 21 06:48	0° M		min. Earth dist.	11608 Aug 17 17:26	5° H 04'07	0.68325 AU
	11604 Feb 03 09:15	0° J			11608 Aug 31 10:31	30° R \approx	
	11604 Apr 04 07:51	0° Z		direct	11608 Sep 27 04:49	25° \approx 29'54	
retrograde	11604 Apr 28 14:02	3° Z 45'35			11608 Oct 26 10:51	0° H	
	11604 May 21 14:18	30° R J			11609 Jan 01 09:10	0° Y	
min. Earth dist.	11604 May 31 07:24	26° J 34'15	0.56990 AU		11609 Feb 19 13:08	0° B	
opposition	11604 Jun 06 20:06	24° J 01'55	3°18'46		11609 Apr 04 06:53	0° II	
greatest brilliancy	11604 Jun 06 02:08	24° J 19'24	-1.8m		11609 May 14 20:52	0° G	
direct	11604 Jul 13 11:04	15° J 45'50		asc. node	11609 Jun 05 17:04	16° G 48'08	
desc. node	11604 Aug 31 15:59	27° J 14'34			11609 Jun 22 13:53	0° Ω	
	11604 Sep 07 08:51	0° Z		evening set	11609 Jul 17 02:11	19° Ω 23'02	
	11604 Nov 06 06:51	0° \approx			11609 Jul 30 11:16	0° M	
	11604 Dec 28 02:06	0° H			11609 Sep 06 12:13	0° L	
	11605 Feb 14 09:41	0° Y					
evening set	11605 Mar 26 11:16	26° Y 17'10		conjunction	11609 Sep 27 01:30	15° L 55'12	1°02'37
	11605 Mar 31 23:18	0° B		minimum elong	11609 Sep 26 23:17	15° L 50'57	1°02'44
max. Earth dist.	11605 Apr 11 14:36	7° B 15'10	2.53362 AU		11609 Oct 15 13:42	0° M	
				max. Earth dist.	11609 Nov 17 21:25	24° M 36'56	2.43838 AU
conjunction	11605 May 14 14:19	0° II 22'16	-1°01'03		11609 Nov 25 08:51	0° J	
minimum elong	11605 May 14 15:45	0° II 24'51	1°01'39	morning rise	11609 Dec 01 03:59	4° J 08'26	
	11605 May 14 01:51	0° II			11610 Jan 07 10:11	0° Z	
	11605 Jun 24 01:33	0° G			11610 Feb 22 04:06	0° \approx	
morning rise	11605 Jul 09 02:25	11° G 20'01			11610 Apr 12 10:54	0° H	
	11605 Aug 02 10:47	0° Ω		desc. node	11610 Apr 23 16:06	6° H 24'50	
asc. node	11605 Sep 01 01:52	23° Ω 05'05			11610 Jun 08 05:00	0° Y	
	11605 Sep 09 21:34	0° M		retrograde	11610 Aug 12 17:20	18° Y 16'37	
	11605 Oct 18 05:21	0° L		opposition	11610 Sep 20 16:09	9° Y 24'41	-4°22'54

greatest brilliancy	11610 Sep 21 08:12	9°Υ09'08	-1.4m	desc. node	11615 Dec 13 16:28	21°Ξ22'06	
min. Earth dist.	11610 Sep 25 09:11	7°Υ35'16	0.64101 AU		11615 Dec 27 05:26	0°≈	
	11610 Oct 22 10:25	30°℞℥		evening set	11615 Dec 30 22:41	2°≈21'57	
direct	11610 Nov 01 01:36	29°℥23'31			11616 Feb 12 12:34	0°℥	
	11610 Nov 11 01:05	0°Υ					
	11611 Jan 25 05:22	0°℞		conjunction	11616 Feb 13 21:16	0°℥51'49	-0°32'03
	11611 Mar 13 04:42	0°Π		minimum elong	11616 Feb 13 20:24	0°℥50'26	0°31'36
asc. node	11611 Apr 23 19:24	0°⊖03'43		max. Earth dist.	11616 Feb 12 15:19	0°℥04'22	2.68357 AU
	11611 Apr 23 17:25	0°⊖		morning rise	11616 Mar 28 03:55	28°℥23'05	
	11611 Jun 01 18:30	0°Ω			11616 Mar 30 16:35	0°Υ	
	11611 Jul 09 21:33	0°℞			11616 May 16 06:06	0°℞	
	11611 Aug 17 06:17	0°♄			11616 Jun 30 23:36	0°Π	
	11611 Sep 25 18:36	0°℞			11616 Aug 14 21:09	0°⊖	
evening set	11611 Sep 29 08:23	2°℞39'13			11616 Sep 28 05:59	0°Ω	
	11611 Nov 06 01:42	0°♁			11616 Nov 12 06:19	0°℞	
				asc. node	11616 Dec 14 10:09	19°℞47'42	
conjunction	11611 Nov 27 03:10	14°♁44'54	0°51'25		11617 Jan 02 17:01	0°♄	
minimum elong	11611 Nov 27 04:57	14°♁47'57	0°52'06	retrograde	11617 Feb 16 21:22	12°♄22'59	
	11611 Dec 19 10:58	0°Ξ		min. Earth dist.	11617 Mar 14 17:28	8°♄05'28	0.38836 AU
max. Earth dist.	11611 Dec 27 01:16	5°Ξ06'15	2.57028 AU	greatest brilliancy	11617 Mar 19 18:35	6°♄36'17	-2.8m
morning rise	11612 Jan 17 14:37	19°Ξ22'40		opposition	11617 Mar 21 03:49	6°♄11'41	5°55'13
	11612 Feb 02 22:50	0°≈		direct	11617 Apr 19 23:55	0°♄53'02	
desc. node	11612 Mar 10 06:22	23°≈02'42			11617 Jul 10 13:51	0°℞	
	11612 Mar 21 11:10	0°℥			11617 Aug 31 05:29	0°♁	
	11612 May 10 07:50	0°Υ			11617 Oct 19 12:38	0°Ξ	
	11612 Jul 03 20:01	0°℞		desc. node	11617 Oct 30 19:17	6°Ξ55'09	
retrograde	11612 Sep 25 08:32	27°℞06'03			11617 Dec 07 06:00	0°≈	
opposition	11612 Oct 31 06:26	19°℞31'32	-5°13'23		11618 Jan 24 09:51	0°℥	
greatest brilliancy	11612 Nov 01 19:15	18°℞58'00	-1.9m	evening set	11618 Feb 03 18:56	6°℥32'17	
min. Earth dist.	11612 Nov 08 09:40	16°℞34'40	0.53434 AU	max. Earth dist.	11618 Mar 05 22:12	25°℥43'29	2.65760 AU
direct	11612 Dec 09 11:21	10°℞19'17			11618 Mar 12 13:36	0°Υ	
	11613 Feb 08 17:17	0°Π					
asc. node	11613 Mar 11 03:01	18°Π25'33		conjunction	11618 Mar 19 23:33	4°Υ47'40	-1°01'28
	11613 Mar 28 04:27	0°⊖		minimum elong	11618 Mar 19 22:35	4°Υ46'06	1°01'27
	11613 May 08 05:36	0°Ω			11618 Apr 27 07:11	0°℞	
	11613 Jun 16 11:55	0°℞		morning rise	11618 May 03 12:36	4°℞10'08	
	11613 Jul 25 19:44	0°♄			11618 Jun 10 09:11	0°Π	
	11613 Sep 04 07:13	0°℞			11618 Jul 22 19:34	0°⊖	
	11613 Oct 16 12:58	0°♁			11618 Sep 01 19:15	0°Ω	
evening set	11613 Nov 20 12:48	23°♁52'29			11618 Oct 11 19:54	0°℞	
	11613 Nov 29 16:48	0°Ξ		asc. node	11618 Nov 01 06:04	15°℞23'00	
					11618 Nov 20 19:32	0°♄	
conjunction	11614 Jan 08 13:25	26°Ξ07'48	0°09'23		11619 Jan 01 13:38	0°℞	
minimum elong	11614 Jan 08 13:46	26°Ξ08'23	0°10'06		11619 Feb 19 08:44	0°♁	
behind sun begin	11614 Jan 07 22:28	25°Ξ43'39		retrograde	11619 Apr 13 01:54	15°♁51'01	
behind sun end	11614 Jan 09 05:05	26°Ξ33'06		min. Earth dist.	11619 May 13 10:52	9°♁29'54	0.52033 AU
	11614 Jan 14 13:15	0°≈		greatest brilliancy	11619 May 19 22:42	7°♁03'27	-2.0m
max. Earth dist.	11614 Jan 20 21:16	4°≈04'31	2.65440 AU	opposition	11619 May 21 03:52	6°♁35'57	4°36'01
desc. node	11614 Jan 25 21:05	7°≈16'40			11619 Jun 12 18:18	30°℞℞	
morning rise	11614 Feb 22 20:30	25°≈05'18		direct	11619 Jun 25 02:24	28°℞58'46	
	11614 Mar 02 15:01	0°℥			11619 Jul 08 02:41	0°♁	
	11614 Apr 19 11:31	0°Υ		desc. node	11619 Sep 18 03:18	27°♁23'51	
	11614 Jun 07 00:58	0°℞			11619 Sep 23 04:23	0°Ξ	
	11614 Jul 26 23:20	0°Π			11619 Nov 16 07:04	0°≈	
	11614 Sep 19 08:23	0°⊖			11620 Jan 05 13:12	0°℥	
retrograde	11614 Nov 29 04:15	22°⊖10'49			11620 Feb 22 08:34	0°Υ	
opposition	11614 Dec 30 01:40	16°⊖45'06	-2°00'29	evening set	11620 Mar 11 02:56	11°Υ31'49	
greatest brilliancy	11614 Dec 30 16:56	16°⊖33'52	-2.8m	max. Earth dist.	11620 Mar 30 15:45	24°Υ28'07	2.57818 AU
min. Earth dist.	11615 Jan 05 17:33	14°⊖47'50	0.39703 AU		11620 Apr 07 21:03	0°℞	
asc. node	11615 Jan 27 09:12	10°⊖36'28					
direct	11615 Feb 01 00:12	10°⊖27'21		conjunction	11620 Apr 26 21:32	12°℞59'44	-1°08'11
	11615 Mar 31 18:43	0°Ω		minimum elong	11620 Apr 26 22:02	13°℞00'36	1°08'39
	11615 May 18 03:37	0°℞			11620 May 21 04:08	0°Π	
	11615 Jun 30 08:52	0°♄		morning rise	11620 Jun 16 14:24	19°Π02'50	
	11615 Aug 12 12:25	0°℞			11620 Jul 01 11:13	0°⊖	
	11615 Sep 25 19:03	0°♁			11620 Aug 10 04:14	0°Ω	
	11615 Nov 10 10:52	0°Ξ		asc. node	11620 Sep 17 22:32	0°℞01'25	

	11620 Sep 17 21:49	0°♎			11625 Dec 11 15:08	0°♑		
	11620 Oct 26 11:08	0°♏			11626 Feb 04 21:00	0°♐		
	11620 Dec 04 21:07	0°♎			11626 Mar 22 00:29	0°♑		
	11621 Jan 15 14:47	0°♏			11626 May 02 00:33	0°♐		
	11621 Mar 03 15:30	0°♏		asc. node	11626 May 10 11:16	6°♐25'25		
retrograde	11621 May 21 16:10	28°♏15'56			11626 Jun 09 20:33	0°♏		
min. Earth dist.	11621 Jun 26 14:15	20°♏00'32	0.63123 AU		11626 Jul 17 19:53	0°♎		
opposition	11621 Jun 30 23:21	18°♏16'17	1°20'09		11626 Aug 25 00:07	0°♏		
greatest brilliancy	11621 Jun 30 18:30	18°♏21'06	-1.5m	evening set	11626 Sep 02 11:32	6°♏34'04		
desc. node	11621 Aug 05 10:16	9°♏19'47			11626 Oct 03 06:34	0°♎		
direct	11621 Aug 08 17:32	9°♏15'45						
	11621 Oct 18 19:56	0°♏		conjunction	11626 Nov 06 05:01	24°♎55'01	1°02'41	
	11621 Dec 14 13:27	0°♏		minimum elong	11626 Nov 06 06:25	24°♎57'32	1°03'15	
	11622 Feb 02 07:06	0°♑			11626 Nov 13 07:22	0°♏		
	11622 Mar 20 05:43	0°♐		max. Earth dist.	11626 Dec 14 16:50	21°♏57'55	2.52320 AU	
evening set	11622 Apr 22 08:08	22°♏55'22			11626 Dec 26 11:40	0°♏		
	11622 May 02 06:10	0°♑		morning rise	11626 Dec 31 22:59	3°♏41'30		
max. Earth dist.	11622 May 06 06:40	2°♑53'47	2.45329 AU		11627 Feb 09 23:13	0°♏		
	11622 Jun 11 22:55	0°♐		desc. node	11627 Mar 27 23:26	28°♏49'27		
					11627 Mar 29 21:49	0°♏		
conjunction	11622 Jun 16 13:04	3°♐28'21	-0°33'50		11627 May 20 08:11	0°♑		
minimum elong	11622 Jun 16 15:16	3°♐32'31	0°34'33		11627 Jul 20 18:57	0°♐		
	11622 Jul 20 23:55	0°♏		retrograde	11627 Sep 07 10:28	11°♏03'29		
asc. node	11622 Aug 05 13:18	12°♏11'02		opposition	11627 Oct 14 18:08	2°♏53'13	-5°07'04	
morning rise	11622 Aug 21 19:44	25°♏00'15		greatest brilliancy	11627 Oct 15 23:34	2°♏25'30	-1.7m	
	11622 Aug 28 03:35	0°♎		min. Earth dist.	11627 Oct 21 16:17	0°♏17'13	0.58317 AU	
	11622 Oct 05 06:04	0°♏			11627 Oct 22 11:01	30°♏♑		
	11622 Nov 13 04:49	0°♎		direct	11627 Nov 24 04:10	23°♑11'37		
	11622 Dec 23 22:38	0°♏			11627 Dec 28 14:01	0°♐		
	11623 Feb 05 14:30	0°♏			11628 Feb 24 04:53	0°♑		
	11623 Mar 26 10:34	0°♏		asc. node	11628 Mar 27 16:24	21°♑56'17		
	11623 Jun 03 20:06	0°♏			11628 Apr 07 21:24	0°♐		
desc. node	11623 Jun 23 12:53	2°♏34'12			11628 May 17 18:31	0°♏		
retrograde	11623 Jun 25 03:56	2°♏35'11			11628 Jun 25 09:37	0°♎		
	11623 Jul 15 01:38	30°♏♏			11628 Aug 03 05:13	0°♏		
opposition	11623 Aug 04 19:14	22°♏46'50	-1°28'10		11628 Sep 12 04:51	0°♎		
min. Earth dist.	11623 Aug 04 04:25	23°♏01'33	0.68163 AU		11628 Oct 23 23:20	0°♏		
greatest brilliancy	11623 Aug 04 17:41	22°♏48'22	-1.3m	evening set	11628 Nov 01 22:26	6°♏15'23		
direct	11623 Sep 14 17:38	13°♏01'44			11628 Dec 06 17:47	0°♏		
	11623 Nov 16 07:41	0°♏						
	11624 Jan 11 21:26	0°♑		conjunction	11628 Dec 23 22:07	11°♏25'39	0°26'31	
	11624 Feb 28 13:24	0°♐		minimum elong	11628 Dec 23 23:08	11°♏27'20	0°27'16	
	11624 Apr 11 21:48	0°♑		max. Earth dist.	11629 Jan 11 12:46	23°♏37'24	2.62763 AU	
	11624 May 22 10:19	0°♐			11629 Jan 21 08:54	0°♏		
evening set	11624 Jun 18 01:29	20°♐31'24		morning rise	11629 Feb 09 00:37	11°♏58'35		
asc. node	11624 Jun 22 09:26	23°♐54'25		desc. node	11629 Feb 11 13:08	13°♏35'04		
	11624 Jun 30 03:51	0°♏			11629 Mar 09 12:03	0°♏		
	11624 Aug 07 01:29	0°♎			11629 Apr 26 21:34	0°♑		
					11629 Jun 15 22:09	0°♐		
conjunction	11624 Aug 27 16:11	16°♎19'51	0°44'08		11629 Aug 08 20:14	0°♑		
minimum elong	11624 Aug 27 12:14	16°♎12'03	0°43'50	retrograde	11629 Oct 31 11:17	27°♑51'59		
	11624 Sep 14 01:23	0°♏		opposition	11629 Dec 03 12:06	21°♑32'02	-4°08'55	
max. Earth dist.	11624 Oct 17 00:34	25°♏27'23	2.38349 AU	greatest brilliancy	11629 Dec 04 22:56	21°♑03'31	-2.4m	
	11624 Oct 23 00:25	0°♎		min. Earth dist.	11629 Dec 12 04:23	18°♑42'36	0.44787 AU	
morning rise	11624 Nov 07 04:08	11°♑21'01		direct	11630 Jan 08 12:03	13°♑49'22		
	11624 Dec 02 16:53	0°♏		asc. node	11630 Feb 12 22:29	21°♑46'29		
	11625 Jan 14 17:55	0°♏			11630 Mar 02 07:22	0°♐		
	11625 Mar 01 20:06	0°♏			11630 Apr 19 05:53	0°♏		
	11625 Apr 21 14:55	0°♏			11630 May 31 00:39	0°♎		
desc. node	11625 May 10 09:02	9°♏55'37			11630 Jul 10 22:03	0°♏		
	11625 Jun 27 05:20	0°♑			11630 Aug 21 14:44	0°♎		
retrograde	11625 Jul 29 00:17	5°♑13'22			11630 Oct 03 20:30	0°♏		
	11625 Aug 27 00:09	30°♏♏			11630 Nov 17 18:42	0°♏		
opposition	11625 Sep 06 16:46	26°♏00'56	-3°42'01	evening set	11630 Dec 16 01:24	18°♏24'06		
greatest brilliancy	11625 Sep 07 01:21	25°♏52'32	-1.3m	desc. node	11630 Dec 30 07:26	27°♏34'16		
min. Earth dist.	11625 Sep 09 21:39	24°♏45'42	0.66572 AU		11631 Jan 03 02:22	0°♏		
direct	11625 Oct 18 06:57	15°♏58'02						

conjunction	11631 Jan 31 03:31	17° \approx 53'21	-0°16'57	min. Earth dist.	11636 Jun 10 04:51	5° \approx 50'07	0.59439 AU
minimum elong	11631 Jan 31 03:00	17° \approx 52'32	0°16'23	greatest brilliancy	11636 Jun 15 11:39	3° \approx 45'39	-1.7m
max. Earth dist.	11631 Feb 04 00:09	20° \approx 20'31	2.67867 AU	opposition	11636 Jun 16 00:03	3° \approx 33'29	2°34'17
	11631 Feb 19 05:29	0° \approx			11636 Jun 25 13:34	30° \approx	
morning rise	11631 Mar 15 20:18	15° \approx 35'48		direct	11636 Jul 23 11:23	24° \approx 59'33	
	11631 Apr 07 13:39	0° \approx		desc. node	11636 Aug 21 21:16	29° \approx 34'31	
	11631 May 24 17:13	0° \approx			11636 Aug 23 08:30	0° \approx	
	11631 Jul 10 13:54	0° \approx			11636 Oct 30 15:10	0° \approx	
	11631 Aug 26 10:42	0° \approx			11636 Dec 22 19:02	0° \approx	
	11631 Oct 13 11:05	0° \approx			11637 Feb 09 13:38	0° \approx	
	11631 Dec 08 01:52	0° \approx			11637 Mar 27 06:50	0° \approx	
asc. node	11632 Jan 01 02:43	8° \approx 08'18		evening set	11637 Apr 04 16:23	5° \approx 42'53	
retrograde	11632 Jan 19 08:53	10° \approx 17'26		max. Earth dist.	11637 Apr 19 10:39	15° \approx 54'42	2.50655 AU
min. Earth dist.	11632 Feb 16 18:26	5° \approx 39'06	0.36463 AU		11637 May 09 09:06	0° \approx	
opposition	11632 Feb 18 05:57	5° \approx 15'28	3°38'13				
greatest brilliancy	11632 Feb 17 22:40	5° \approx 20'20	-3.0m	conjunction	11637 May 25 13:47	11° \approx 42'21	-0°53'39
direct	11632 Mar 18 11:33	0° \approx 24'44		minimum elong	11637 May 25 15:43	11° \approx 45'52	0°54'20
	11632 Jun 05 22:38	0° \approx			11637 Jun 19 06:49	0° \approx	
	11632 Jul 25 01:10	0° \approx		morning rise	11637 Jul 23 12:40	26° \approx 06'35	
	11632 Sep 10 07:09	0° \approx			11637 Jul 28 13:11	0° \approx	
	11632 Oct 27 16:41	0° \approx		asc. node	11637 Aug 22 09:34	19° \approx 02'12	
desc. node	11632 Nov 16 07:01	12° \approx 19'31			11637 Sep 04 21:06	0° \approx	
	11632 Dec 14 11:10	0° \approx			11637 Oct 13 02:16	0° \approx	
evening set	11633 Jan 21 01:01	23° \approx 35'58			11637 Nov 21 02:53	0° \approx	
	11633 Jan 31 04:38	0° \approx			11638 Jan 01 00:51	0° \approx	
max. Earth dist.	11633 Feb 25 01:41	15° \approx 46'26	2.67414 AU		11638 Feb 14 08:40	0° \approx	
					11638 Apr 07 03:37	0° \approx	
conjunction	11633 Mar 06 04:15	21° \approx 35'08	-0°52'06	retrograde	11638 Jun 11 23:46	19° \approx 56'37	
minimum elong	11633 Mar 06 03:09	21° \approx 33'22	0°51'53	desc. node	11638 Jul 10 01:33	14° \approx 48'42	
	11633 Mar 19 06:56	0° \approx		min. Earth dist.	11638 Jul 20 13:24	10° \approx 50'30	0.66975 AU
morning rise	11633 Apr 18 19:11	19° \approx 48'44		opposition	11638 Jul 22 16:01	10° \approx 00'10	-0°27'14
	11633 May 04 06:25	0° \approx		greatest brilliancy	11638 Jul 22 14:59	10° \approx 01'11	-1.4m
	11633 Jun 17 20:39	0° \approx		direct	11638 Aug 31 22:31	0° \approx 29'07	
	11633 Jul 31 00:36	0° \approx			11638 Nov 28 15:00	0° \approx	
	11633 Sep 10 21:40	0° \approx			11639 Jan 20 08:04	0° \approx	
	11633 Oct 21 23:48	0° \approx			11639 Mar 08 02:56	0° \approx	
asc. node	11633 Nov 18 00:13	19° \approx 39'30			11639 Apr 20 06:44	0° \approx	
	11633 Dec 02 11:42	0° \approx		evening set	11639 May 24 19:40	25° \approx 12'39	
	11634 Jan 16 18:08	0° \approx			11639 May 30 20:21	0° \approx	
retrograde	11634 Mar 25 08:43	24° \approx 45'31		max. Earth dist.	11639 Jun 25 00:44	19° \approx 20'36	2.37419 AU
min. Earth dist.	11634 Apr 22 06:02	19° \approx 20'51	0.46561 AU		11639 Jul 08 16:19	0° \approx	
greatest brilliancy	11634 Apr 29 00:30	16° \approx 57'57	-2.3m	asc. node	11639 Jul 10 02:55	1° \approx 07'53	
opposition	11634 Apr 30 15:43	16° \approx 23'08	5°44'07				
direct	11634 Jun 02 16:15	9° \approx 35'30		conjunction	11639 Jul 28 13:00	15° \approx 039'00	0°13'17
	11634 Aug 09 05:06	0° \approx		minimum elong	11639 Jul 28 11:38	15° \approx 036'19	0°12'41
desc. node	11634 Oct 04 13:04	0° \approx 08'41		behind sun begin	11639 Jul 27 16:46	14° \approx 059'01	
	11634 Oct 04 06:59	0° \approx		behind sun end	11639 Jul 29 06:30	16° \approx 013'38	
	11634 Nov 24 12:03	0° \approx			11639 Aug 15 15:38	0° \approx	
	11635 Jan 12 17:21	0° \approx			11639 Sep 22 15:41	0° \approx	
evening set	11635 Feb 25 14:39	27° \approx 41'31		morning rise	11639 Oct 10 13:21	13° \approx 056'01	
	11635 Mar 01 04:43	0° \approx			11639 Oct 31 13:16	0° \approx	
max. Earth dist.	11635 Mar 20 23:54	12° \approx 52'35	2.61541 AU		11639 Dec 11 04:07	0° \approx	
					11640 Jan 23 06:59	0° \approx	
conjunction	11635 Apr 11 21:21	27° \approx 52'10	-1°09'14		11640 Mar 09 23:22	0° \approx	
minimum elong	11635 Apr 11 21:04	27° \approx 52'42	1°09'31		11640 May 02 10:11	0° \approx	
	11635 Apr 15 18:06	0° \approx		desc. node	11640 May 26 23:53	11° \approx 10'46	
morning rise	11635 May 29 08:34	0° \approx 02'21		retrograde	11640 Jul 15 03:08	22° \approx 39'16	
	11635 May 29 07:14	0° \approx		opposition	11640 Aug 24 08:16	13° \approx 10'10	-2°54'42
	11635 Jul 09 23:15	0° \approx		greatest brilliancy	11640 Aug 24 11:11	13° \approx 07'19	-1.3m
	11635 Aug 19 01:51	0° \approx		min. Earth dist.	11640 Aug 26 01:02	12° \approx 30'00	0.67989 AU
	11635 Sep 27 04:22	0° \approx		direct	11640 Oct 04 20:59	3° \approx 10'57	
asc. node	11635 Oct 05 17:13	6° \approx 35'36			11640 Dec 25 06:39	0° \approx	
	11635 Nov 05 02:16	0° \approx			11641 Feb 13 23:52	0° \approx	
	11635 Dec 14 23:40	0° \approx			11641 Mar 30 03:58	0° \approx	
	11636 Jan 26 20:14	0° \approx			11641 May 09 21:24	0° \approx	
	11636 Mar 18 17:07	0° \approx		asc. node	11641 May 27 01:13	13° \approx 09'11	
retrograde	11636 May 07 06:18	13° \approx 025'59			11641 Jun 17 15:19	0° \approx	

	11641 Jul 25 13:06	0°♎		morning rise	11646 Mar 02 12:51	2°♎53'11	
evening set	11641 Aug 03 09:26	7°♎00'33			11646 Apr 14 14:24	0°♎	
	11641 Sep 01 14:48	0°♎			11646 Jun 01 13:18	0°♎	
	11641 Oct 10 17:18	0°♎			11646 Jul 20 02:10	0°♎	
					11646 Sep 08 12:34	0°♎	
conjunction	11641 Oct 12 15:47	1°♎27'21	1°06'10		11646 Nov 07 09:00	0°♎	
minimum elong	11641 Oct 12 15:16	1°♎26'22	1°06'30	retrograde	11646 Dec 17 04:55	8°♎39'16	
	11641 Nov 20 13:26	0°♎		opposition	11647 Jan 16 06:10	3°♎37'14	-0°06'39
max. Earth dist.	11641 Nov 29 03:39	6°♎07'12	2.46982 AU	greatest brilliancy	11647 Jan 16 06:56	3°♎36'42	-3.0m
morning rise	11641 Dec 13 02:04	15°♎54'22		asc. node	11647 Jan 17 17:02	3°♎13'09	
	11642 Jan 02 14:33	0°♎		min. Earth dist.	11647 Jan 20 13:02	2°♎26'30	0.37650 AU
	11642 Feb 17 04:07	0°♎			11647 Jan 30 10:35	30°♎	
	11642 Apr 06 19:08	0°♎		direct	11647 Feb 16 07:28	28°♎05'46	
desc. node	11642 Apr 13 17:13	4°♎04'30			11647 Mar 05 01:17	0°♎	
	11642 May 30 20:34	0°♎			11647 May 07 19:19	0°♎	
retrograde	11642 Aug 21 14:26	26°♎34'00			11647 Jun 22 18:32	0°♎	
opposition	11642 Sep 29 01:11	17°♎55'05	-4°42'33		11647 Aug 06 05:37	0°♎	
greatest brilliancy	11642 Sep 29 21:54	17°♎35'10	-1.5m		11647 Sep 20 06:54	0°♎	
min. Earth dist.	11642 Oct 04 13:24	15°♎48'11	0.62325 AU		11647 Nov 05 10:35	0°♎	
direct	11642 Nov 09 05:01	7°♎58'05		desc. node	11647 Dec 03 19:50	18°♎08'38	
	11643 Jan 17 00:41	0°♎			11647 Dec 22 12:08	0°♎	
	11643 Mar 07 02:19	0°♎		evening set	11648 Jan 08 02:06	10°♎29'46	
asc. node	11643 Apr 14 06:02	27°♎03'39			11648 Feb 07 22:09	0°♎	
	11643 Apr 18 05:10	0°♎		max. Earth dist.	11648 Feb 17 14:43	6°♎08'24	2.68264 AU
	11643 May 27 11:53	0°♎					
	11643 Jul 04 18:02	0°♎		conjunction	11648 Feb 21 14:29	8°♎40'17	-0°40'05
	11643 Aug 12 05:30	0°♎		minimum elong	11648 Feb 21 13:28	8°♎38'40	0°39'43
	11643 Sep 20 20:32	0°♎			11648 Mar 26 01:16	0°♎	
evening set	11643 Oct 12 18:31	16°♎03'23		morning rise	11648 Apr 04 20:33	6°♎17'50	
	11643 Nov 01 06:22	0°♎			11648 May 11 09:22	0°♎	
					11648 Jun 25 16:08	0°♎	
conjunction	11643 Dec 07 18:35	25°♎17'16	0°42'55		11648 Aug 08 20:24	0°♎	
minimum elong	11643 Dec 07 20:11	25°♎19'59	0°43'39		11648 Sep 21 02:06	0°♎	
	11643 Dec 14 17:46	0°♎			11648 Nov 03 02:18	0°♎	
max. Earth dist.	11644 Jan 02 10:43	12°♎29'25	2.59301 AU	asc. node	11648 Dec 04 18:46	21°♎23'38	
morning rise	11644 Jan 26 10:13	28°♎11'06			11648 Dec 18 06:48	0°♎	
	11644 Jan 29 05:34	0°♎		retrograde	11649 Mar 03 09:09	29°♎22'04	
desc. node	11644 Feb 29 06:56	19°♎49'02		min. Earth dist.	11649 Mar 29 07:18	24°♎49'18	0.41251 AU
	11644 Mar 16 12:58	0°♎		greatest brilliancy	11649 Apr 04 11:30	22°♎52'29	-2.7m
	11644 May 04 17:36	0°♎		opposition	11649 Apr 06 04:10	22°♎20'05	6°15'20
	11644 Jun 26 01:46	0°♎		direct	11649 May 07 02:20	16°♎30'46	
	11644 Aug 29 04:47	0°♎			11649 Jun 27 10:27	0°♎	
retrograde	11644 Oct 07 07:37	7°♎42'19			11649 Aug 23 19:10	0°♎	
opposition	11644 Nov 11 08:13	0°♎31'33	-5°03'12		11649 Oct 13 18:01	0°♎	
	11644 Nov 12 19:52	30°♎		desc. node	11649 Oct 20 23:39	4°♎21'07	
greatest brilliancy	11644 Nov 12 22:59	29°♎57'15	-2.1m		11649 Dec 02 04:50	0°♎	
min. Earth dist.	11644 Nov 19 23:10	27°♎29'44	0.50439 AU		11650 Jan 19 16:37	0°♎	
direct	11644 Dec 19 14:56	21°♎44'28		evening set	11650 Feb 11 15:45	14°♎27'47	
	11645 Jan 25 12:42	0°♎			11650 Mar 07 22:56	0°♎	
asc. node	11645 Mar 01 12:43	18°♎03'59		max. Earth dist.	11650 Mar 11 06:22	2°♎08'16	2.64491 AU
	11645 Mar 20 07:23	0°♎					
	11645 May 01 16:34	0°♎		conjunction	11650 Mar 28 01:48	13°♎04'33	-1°05'28
	11645 Jun 10 13:17	0°♎		minimum elong	11650 Mar 28 01:02	13°♎03'17	1°05'34
	11645 Jul 20 06:46	0°♎			11650 Apr 22 15:06	0°♎	
	11645 Aug 30 01:55	0°♎		morning rise	11650 May 12 09:54	13°♎22'10	
	11645 Oct 11 14:00	0°♎			11650 Jun 05 12:37	0°♎	
	11645 Nov 24 22:44	0°♎			11650 Jul 17 16:23	0°♎	
evening set	11645 Nov 30 04:11	3°♎27'35			11650 Aug 27 08:07	0°♎	
	11646 Jan 09 21:59	0°♎			11650 Oct 05 23:36	0°♎	
desc. node	11646 Jan 15 22:08	3°♎51'37		asc. node	11650 Oct 22 13:51	12°♎38'24	
					11650 Nov 14 11:26	0°♎	
conjunction	11646 Jan 16 22:54	4°♎31'20	-0°00'33		11650 Dec 25 06:27	0°♎	
minimum elong	11646 Jan 16 22:56	4°♎31'23	0°00'07		11651 Feb 08 14:59	0°♎	
behind sun begin	11646 Jan 16 04:15	4°♎01'25		retrograde	11651 Apr 22 15:44	26°♎49'25	
behind sun end	11646 Jan 17 17:38	5°♎01'20		min. Earth dist.	11651 May 24 08:32	20°♎00'11	0.54844 AU
max. Earth dist.	11646 Jan 26 03:14	10°♎24'03	2.66536 AU	opposition	11651 May 31 11:22	17°♎16'13	3°52'00
	11646 Feb 25 23:18	0°♎		greatest brilliancy	11651 May 30 12:37	17°♎38'05	-1.9m

direct	11651 Jul 06 08:55	9°♊16'32			11656 Sep 09 04:35	0°♎	
desc. node	11651 Sep 08 07:08	27°♊10'33					
	11651 Sep 14 09:23	0°♊		conjunction	11656 Sep 14 01:07	3°♎47'27	0°56'34
	11651 Nov 10 08:52	0°♊		minimum elong	11656 Sep 13 21:42	3°♎40'48	0°56'31
	11651 Dec 31 11:42	0°♊			11656 Oct 18 03:59	0°♎	
	11652 Feb 17 14:53	0°♊		max. Earth dist.	11656 Nov 06 19:27	14°♎40'20	2.41290 AU
evening set	11652 Mar 19 17:25	20°♊17'22		morning rise	11656 Nov 21 04:44	25°♎11'49	
	11652 Apr 03 05:15	0°♊			11656 Nov 27 20:25	0°♊	
max. Earth dist.	11652 Apr 06 07:23	2°♊05'31	2.55442 AU		11657 Jan 09 19:53	0°♊	
					11657 Feb 24 14:52	0°♊	
conjunction	11652 May 06 16:11	23°♊04'37	-1°04'56		11657 Apr 15 08:23	0°♊	
minimum elong	11652 May 06 17:12	23°♊06'24	1°05'30	desc. node	11657 Apr 30 10:07	8°♊24'02	
	11652 May 16 10:52	0°♊			11657 Jun 13 15:05	0°♊	
	11652 Jun 26 14:48	0°♊		retrograde	11657 Aug 06 06:36	13°♊06'48	
morning rise	11652 Jun 28 19:29	1°♊38'14		opposition	11657 Sep 14 14:04	4°♊05'02	-4°06'44
	11652 Aug 05 04:05	0°♊		greatest brilliancy	11657 Sep 15 02:38	3°♊52'48	-1.4m
asc. node	11652 Sep 08 04:25	26°♊25'47		min. Earth dist.	11657 Sep 18 14:45	2°♊31'01	0.65331 AU
	11652 Sep 12 17:58	0°♊			11657 Sep 25 07:59	30°♊	
	11652 Oct 21 03:52	0°♊		direct	11657 Oct 26 02:44	24°♊02'27	
	11652 Nov 29 09:12	0°♊			11657 Nov 28 08:31	0°♊	
	11653 Jan 09 16:30	0°♊			11658 Jan 29 05:46	0°♊	
	11653 Feb 24 07:12	0°♊			11658 Mar 16 09:53	0°♊	
	11653 Apr 25 00:22	0°♊			11658 Apr 26 17:58	0°♊	
retrograde	11653 May 29 13:04	6°♊41'39		asc. node	11658 Apr 30 19:15	3°♊03'29	
	11653 Jun 30 15:07	30°♊			11658 Jun 04 17:22	0°♊	
min. Earth dist.	11653 Jul 05 11:13	28°♊07'11	0.64753 AU		11658 Jul 12 18:41	0°♊	
opposition	11653 Jul 09 01:16	26°♊41'43	0°39'06		11658 Aug 20 00:54	0°♊	
greatest brilliancy	11653 Jul 08 23:23	26°♊43'35	-1.5m	evening set	11658 Sep 18 02:23	22°♊15'39	
desc. node	11653 Jul 26 14:03	20°♊31'23			11658 Sep 28 09:38	0°♊	
direct	11653 Aug 17 10:15	17°♊29'06			11658 Nov 08 12:30	0°♊	
	11653 Oct 08 20:46	0°♊					
	11653 Dec 08 13:30	0°♊		conjunction	11658 Nov 18 09:50	6°♊59'48	0°56'52
	11654 Jan 28 04:40	0°♊		minimum elong	11658 Nov 18 11:36	7°♊02'54	0°57'32
	11654 Mar 15 10:23	0°♊			11658 Dec 21 18:08	0°♊	
	11654 Apr 27 12:26	0°♊		max. Earth dist.	11658 Dec 22 01:03	0°♊11'41	2.55011 AU
evening set	11654 May 03 05:59	4°♊08'00		morning rise	11659 Jan 10 14:51	13°♊17'50	
max. Earth dist.	11654 May 18 12:54	15°♊18'52	2.42332 AU		11659 Feb 05 04:12	0°♊	
	11654 Jun 07 04:27	0°♊		desc. node	11659 Mar 18 00:35	25°♊49'11	
					11659 Mar 24 19:12	0°♊	
conjunction	11654 Jun 30 11:52	17°♊49'32	-0°18'38		11659 May 14 04:38	0°♊	
minimum elong	11654 Jun 30 13:28	17°♊52'36	0°19'21		11659 Jul 09 18:25	0°♊	
	11654 Jul 16 03:45	0°♊		retrograde	11659 Sep 17 19:09	20°♊25'05	
asc. node	11654 Jul 26 20:51	8°♊23'56		opposition	11659 Oct 24 09:43	12°♊33'23	-5°13'15
	11654 Aug 23 05:33	0°♊		greatest brilliancy	11659 Oct 25 19:34	12°♊02'02	-1.8m
morning rise	11654 Sep 08 16:59	13°♊01'46		min. Earth dist.	11659 Nov 01 01:26	9°♊44'01	0.55717 AU
	11654 Sep 30 06:35	0°♊		direct	11659 Dec 03 05:43	3°♊05'53	
	11654 Nov 08 04:03	0°♊			11660 Feb 15 22:37	0°♊	
	11654 Dec 18 19:15	0°♊		asc. node	11660 Mar 18 02:19	19°♊59'10	
	11655 Jan 31 03:50	0°♊			11660 Apr 01 10:11	0°♊	
	11655 Mar 19 21:33	0°♊			11660 May 11 21:49	0°♊	
	11655 May 18 04:35	0°♊			11660 Jun 19 20:21	0°♊	
desc. node	11655 Jun 13 15:47	8°♊09'54			11660 Jul 28 21:34	0°♊	
retrograde	11655 Jul 02 17:32	10°♊14'10			11660 Sep 07 02:27	0°♊	
opposition	11655 Aug 12 06:30	0°♊31'48	-2°01'42		11660 Oct 19 01:39	0°♊	
greatest brilliancy	11655 Aug 12 05:51	0°♊32'27	-1.3m	evening set	11660 Nov 12 18:26	17°♊01'40	
min. Earth dist.	11655 Aug 12 11:17	0°♊27'04	0.68383 AU		11660 Dec 02 00:04	0°♊	
	11655 Aug 13 14:38	30°♊					
direct	11655 Sep 22 11:39	20°♊40'43		conjunction	11661 Jan 01 23:33	20°♊26'40	0°16'33
	11655 Nov 05 10:06	0°♊		minimum elong	11661 Jan 02 00:11	20°♊27'42	0°17'17
	11656 Jan 05 17:50	0°♊			11661 Jan 16 16:59	0°♊	
	11656 Feb 23 07:16	0°♊		max. Earth dist.	11661 Jan 17 01:09	0°♊13'11	2.64353 AU
	11656 Apr 06 22:25	0°♊		desc. node	11661 Feb 01 14:35	10°♊13'03	
	11656 May 17 13:03	0°♊		morning rise	11661 Feb 16 23:47	20°♊01'13	
asc. node	11656 Jun 12 17:53	20°♊10'35			11661 Mar 04 18:27	0°♊	
	11656 Jun 25 07:01	0°♊			11661 Apr 21 19:45	0°♊	
evening set	11656 Jul 03 22:30	6°♊48'47			11661 Jun 09 22:20	0°♊	
	11656 Aug 02 04:33	0°♊			11661 Jul 31 05:37	0°♊	

	11661 Sep 28 23:08	0°☾		11666 Sep 27 07:53	0°☾
retrograde	11661 Nov 16 00:15	11°☾25'03		11666 Nov 19 00:55	0°☾
opposition	11661 Dec 17 19:21	5°☾35'23 -3°06'42		11667 Jan 07 20:03	0°☾
greatest brilliancy	11661 Dec 18 21:04	5°☾15'26 -2.6m		11667 Feb 24 12:43	0°☾
min. Earth dist.	11661 Dec 25 16:25	3°☾09'27 0.41833 AU	evening set	11667 Mar 05 19:23	5°☾59'41
	11662 Jan 07 04:17	30°☾II	max. Earth dist.	11667 Mar 26 23:53	19°☾53'37 2.59585 AU
direct	11662 Jan 21 04:57	28°☾II37'42		11667 Apr 11 02:37	0°☾
asc. node	11662 Feb 03 09:11	29°☾II51'17			
	11662 Feb 04 03:48	0°☾	conjunction	11667 Apr 20 19:43	6°☾34'51 -1°09'19
	11662 Apr 09 12:05	0°☾	minimum elong	11667 Apr 20 19:52	6°☾35'05 1°09'43
	11662 May 23 13:48	0°☾		11667 May 24 13:33	0°☾
	11662 Jul 04 12:19	0°☾	morning rise	11667 Jun 08 21:55	10°☾II56'38
	11662 Aug 15 21:16	0°☾		11667 Jul 05 01:28	0°☾
	11662 Sep 28 14:28	0°☾		11667 Aug 13 23:24	0°☾
	11662 Nov 12 21:00	0°☾		11667 Sep 21 20:57	0°☾
desc. node	11662 Dec 20 08:43	24°☾III13'04	asc. node	11667 Sep 26 00:49	3°☾III13'57
evening set	11662 Dec 24 15:57	26°☾III58'15		11667 Oct 30 13:24	0°☾
	11662 Dec 29 09:43	0°☾		11667 Dec 09 02:44	0°☾
				11668 Jan 20 03:39	0°☾
conjunction	11663 Feb 08 01:03	25°☾50'07 -0°26'00		11668 Mar 08 11:18	0°☾
minimum elong	11663 Feb 08 00:18	25°☾48'56 0°25'30	retrograde	11668 May 15 14:05	22°☾III33'28
max. Earth dist.	11663 Feb 09 01:17	26°☾28'32 2.68253 AU	min. Earth dist.	11668 Jun 19 15:48	14°☾III35'16 0.61588 AU
	11663 Feb 14 14:41	0°☾	opposition	11668 Jun 24 16:44	12°☾III35'52 1°50'39
morning rise	11663 Mar 23 10:40	23°☾III22'28	greatest brilliancy	11668 Jun 24 09:01	12°☾III43'29 -1.6m
	11663 Apr 02 20:32	0°☾	direct	11668 Aug 01 22:35	3°☾III46'26
	11663 May 19 16:04	0°☾	desc. node	11668 Aug 12 01:28	4°☾III22'23
	11663 Jul 04 21:00	0°☾		11668 Oct 23 05:31	0°☾
	11663 Aug 19 13:04	0°☾		11668 Dec 17 07:07	0°☾
	11663 Oct 04 04:13	0°☾		11669 Feb 04 15:42	0°☾
	11663 Nov 20 20:20	0°☾		11669 Mar 22 13:11	0°☾
asc. node	11663 Dec 22 10:57	17°☾III00'44	evening set	11669 Apr 14 11:17	15°☾III43'57
retrograde	11664 Feb 05 12:28	29°☾III02'46	max. Earth dist.	11669 Apr 28 11:07	25°☾III34'53 2.47751 AU
min. Earth dist.	11664 Mar 03 00:31	24°☾III45'17 0.37385 AU		11669 May 04 15:44	0°☾
opposition	11664 Mar 07 13:59	23°☾III28'49 5°13'12			
greatest brilliancy	11664 Mar 06 15:25	23°☾III44'37 -3.0m	conjunction	11669 Jun 06 13:36	24°☾III04'08 -0°43'25
direct	11664 Apr 05 21:16	18°☾III29'05	minimum elong	11669 Jun 06 15:50	24°☾III08'17 0°44'09
	11664 May 21 13:12	0°☾		11669 Jun 14 11:41	0°☾
	11664 Jul 16 16:48	0°☾		11669 Jul 23 15:51	0°☾
	11664 Sep 03 23:28	0°☾	morning rise	11669 Aug 08 11:35	12°☾III21'39
	11664 Oct 22 07:41	0°☾	asc. node	11669 Aug 12 15:05	15°☾III36'51
desc. node	11664 Nov 06 10:27	9°☾III23'37		11669 Aug 30 21:37	0°☾
	11664 Dec 09 13:49	0°☾	greatest brilliancy	11669 Sep 13 16:35	10°☾III52'27 1.2m
	11665 Jan 26 12:55	0°☾		11669 Oct 08 00:58	0°☾
evening set	11665 Jan 28 22:03	1°☾III29'58		11669 Nov 15 23:41	0°☾
max. Earth dist.	11665 Mar 02 04:27	21°☾III58'35 2.66604 AU		11669 Dec 26 17:25	0°☾
				11670 Feb 08 12:52	0°☾
conjunction	11665 Mar 14 00:28	29°☾III34'11 -0°57'58		11670 Mar 30 04:35	0°☾
minimum elong	11665 Mar 13 23:26	29°☾III32'31 0°57'52	retrograde	11670 Jun 19 12:23	27°☾III43'30
	11665 Mar 14 16:30	0°☾	desc. node	11670 Jun 30 05:00	26°☾III58'30
morning rise	11665 Apr 27 01:32	28°☾III20'49	min. Earth dist.	11670 Jul 28 22:05	18°☾III21'54 0.67758 AU
	11665 Apr 29 13:16	0°☾	opposition	11670 Jul 30 05:11	17°☾III51'01 -1°03'39
	11665 Jun 12 21:22	0°☾	greatest brilliancy	11670 Jul 30 03:26	17°☾III52'45 -1.3m
	11665 Jul 25 15:49	0°☾	direct	11670 Sep 08 21:42	8°☾III11'46
	11665 Sep 05 00:51	0°☾		11670 Nov 20 23:37	0°☾
	11665 Oct 15 11:26	0°☾		11671 Jan 14 18:41	0°☾
asc. node	11665 Nov 08 07:41	17°☾III44'12		11671 Mar 03 02:46	0°☾
	11665 Nov 24 23:39	0°☾		11671 Apr 15 10:35	0°☾
	11666 Jan 06 17:50	0°☾		11671 May 26 00:35	0°☾
	11666 Mar 01 17:29	0°☾	evening set	11671 Jun 07 13:16	9°☾III34'12
retrograde	11666 Apr 05 06:25	7°☾III37'44	asc. node	11671 Jun 30 09:49	27°☾III19'19
min. Earth dist.	11666 May 04 13:18	1°☾III41'31 0.49616 AU		11671 Jul 03 19:48	0°☾
	11666 May 09 04:26	30°☾III		11671 Aug 10 18:09	0°☾
greatest brilliancy	11666 May 11 05:59	29°☾III14'07 -2.2m			
opposition	11666 May 12 16:05	28°☾III42'40 5°07'45	conjunction	11671 Aug 14 21:14	3°☾III16'35 0°31'45
direct	11666 Jun 15 18:09	21°☾III26'24	minimum elong	11671 Aug 14 17:59	3°☾III10'08 0°31'18
	11666 Jul 26 10:04	0°☾	max. Earth dist.	11671 Sep 10 16:56	24°☾III28'56 2.36535 AU
desc. node	11666 Sep 24 18:05	28°☾III36'15		11671 Sep 17 17:37	0°☾

	11671 Oct 26 15:08	0°♌		greatest brilliancy	11676 Nov 24 22:55	11°♊53'00	-2.3m
morning rise	11671 Oct 27 06:03	0°♌28'14		min. Earth dist.	11676 Dec 02 04:48	9°♊26'09	0.47315 AU
	11671 Dec 06 05:27	0°♏		direct	11676 Dec 30 12:17	4°♊10'40	
	11672 Jan 18 05:23	0°♎		asc. node	11677 Feb 19 22:06	19°♊25'28	
	11672 Mar 04 10:37	0°♍			11677 Mar 10 16:48	0°♎	
	11672 Apr 25 00:28	0°♋			11677 Apr 24 10:07	0°♏	
desc. node	11672 May 17 02:32	11°♋08'46			11677 Jun 04 04:37	0°♐	
	11672 Jul 15 17:08	0°♑			11677 Jul 14 11:06	0°♑	
retrograde	11672 Jul 22 23:18	0°♑18'42			11677 Aug 24 16:17	0°♌	
	11672 Jul 30 00:19	30°♋♋			11677 Oct 06 12:21	0°♏	
opposition	11672 Aug 31 22:13	20°♋58'17	-3°23'05		11677 Nov 20 03:08	0°♎	
greatest brilliancy	11672 Sep 01 04:03	20°♋52'34	-1.3m	evening set	11677 Dec 09 09:02	12°♎37'19	
min. Earth dist.	11672 Sep 03 10:47	19°♋58'52	0.67343 AU	desc. node	11678 Jan 05 23:50	0°♍28'49	
direct	11672 Oct 12 12:53	10°♋56'34			11678 Jan 05 05:53	0°♍	
	11672 Dec 17 01:55	0°♑					
	11673 Feb 08 03:48	0°♐		conjunction	11678 Jan 25 03:17	12°♍43'42	-0°10'18
	11673 Mar 24 22:17	0°♊		minimum elong	11678 Jan 25 02:57	12°♍43'11	0°09'41
	11673 May 04 20:24	0°♎		behind sun begin	11678 Jan 24 11:47	12°♍19'01	
asc. node	11673 May 17 11:14	9°♎37'21		behind sun end	11678 Jan 25 18:07	13°♍07'21	
	11673 Jun 12 16:03	0°♏		max. Earth dist.	11678 Jan 31 06:41	16°♍38'32	2.67372 AU
greatest brilliancy	11673 Jul 04 20:42	17°♏31'18	1.2m		11678 Feb 21 07:36	0°♋	
	11673 Jul 20 14:32	0°♐		morning rise	11678 Mar 10 03:58	10°♋39'54	
evening set	11673 Aug 20 13:49	24°♐25'47			11678 Apr 09 18:24	0°♑	
	11673 Aug 27 16:54	0°♑			11678 May 27 05:50	0°♐	
	11673 Oct 05 20:31	0°♌			11678 Jul 13 18:30	0°♊	
					11678 Aug 30 21:48	0°♎	
conjunction	11673 Oct 27 00:35	15°♌43'04	1°05'25		11678 Oct 20 23:01	0°♏	
minimum elong	11673 Oct 27 01:22	15°♌44'32	1°05'54	retrograde	11679 Jan 04 23:20	26°♏28'29	
	11673 Nov 15 17:43	0°♏		asc. node	11679 Jan 08 03:02	26°♏24'34	
max. Earth dist.	11673 Dec 08 12:55	16°♏05'09	2.50005 AU	opposition	11679 Feb 03 12:35	21°♏35'37	2°03'12
morning rise	11673 Dec 24 03:00	26°♏49'29		greatest brilliancy	11679 Feb 03 13:15	21°♏35'11	-3.1m
	11673 Dec 28 19:02	0°♎		min. Earth dist.	11679 Feb 04 18:44	21°♏15'42	0.36542 AU
	11674 Feb 12 05:37	0°♍		direct	11679 Mar 05 05:28	16°♏35'46	
	11674 Apr 01 08:56	0°♋			11679 Apr 22 14:57	0°♐	
desc. node	11674 Apr 03 17:37	1°♋25'17			11679 Jun 13 22:22	0°♑	
	11674 May 23 15:36	0°♑			11679 Jul 30 10:16	0°♌	
	11674 Jul 30 05:02	0°♐			11679 Sep 14 12:45	0°♏	
retrograde	11674 Aug 30 22:22	5°♐10'25			11679 Oct 31 07:06	0°♎	
	11674 Sep 28 22:03	30°♋♑		desc. node	11679 Nov 23 22:55	15°♎00'21	
opposition	11674 Oct 07 19:20	26°♑46'24	-4°58'11		11679 Dec 17 17:05	0°♍	
greatest brilliancy	11674 Oct 08 20:54	26°♑22'05	-1.6m	evening set	11680 Jan 16 02:28	18°♍31'04	
min. Earth dist.	11674 Oct 14 02:52	24°♑22'40	0.60238 AU		11680 Feb 03 07:04	0°♋	
direct	11674 Nov 17 14:51	16°♑56'36		max. Earth dist.	11680 Feb 22 13:50	12°♋13'11	2.67895 AU
	11675 Jan 06 15:18	0°♐					
	11675 Feb 28 11:05	0°♊		conjunction	11680 Feb 29 08:24	16°♋31'46	-0°47'25
asc. node	11675 Apr 04 16:05	24°♊20'27		minimum elong	11680 Feb 29 07:20	16°♋30'02	0°47'10
	11675 Apr 12 10:11	0°♎			11680 Mar 21 09:54	0°♑	
	11675 May 22 01:04	0°♏		morning rise	11680 Apr 12 17:51	14°♑25'26	
	11675 Jun 29 11:49	0°♐			11680 May 06 13:30	0°♐	
	11675 Aug 07 02:49	0°♑			11680 Jun 20 11:24	0°♊	
	11675 Sep 15 21:23	0°♌			11680 Aug 03 01:53	0°♎	
evening set	11675 Oct 25 02:34	28°♌21'24			11680 Sep 14 12:28	0°♏	
	11675 Oct 27 10:25	0°♏			11680 Oct 26 07:26	0°♐	
	11675 Dec 10 00:14	0°♎		asc. node	11680 Nov 25 02:08	21°♐08'03	
					11680 Dec 07 22:44	0°♑	
conjunction	11675 Dec 17 17:58	5°♎11'16	0°33'33		11681 Jan 25 19:02	0°♌	
minimum elong	11675 Dec 17 19:16	5°♎13'26	0°34'18	retrograde	11681 Mar 16 05:54	14°♌43'07	
max. Earth dist.	11676 Jan 08 12:07	19°♎34'33	2.61312 AU	min. Earth dist.	11681 Apr 12 03:42	9°♌42'59	0.44105 AU
	11676 Jan 24 12:29	0°♍		greatest brilliancy	11681 Apr 18 18:49	7°♌28'51	-2.5m
morning rise	11676 Feb 03 21:19	6°♍40'43		opposition	11681 Apr 20 12:18	6°♌53'28	6°05'17
desc. node	11676 Feb 19 06:37	16°♍30'08		direct	11681 May 22 14:38	0°♌31'15	
	11676 Mar 11 16:23	0°♋			11681 Aug 15 06:51	0°♏	
	11676 Apr 29 08:35	0°♑			11681 Oct 07 16:09	0°♎	
	11676 Jun 19 04:45	0°♐		desc. node	11681 Oct 11 04:09	2°♎02'54	
	11676 Aug 14 22:46	0°♊			11681 Nov 27 00:57	0°♍	
retrograde	11676 Oct 20 09:39	19°♊09'10			11682 Jan 14 22:33	0°♋	
opposition	11676 Nov 23 08:45	12°♊25'28	-4°38'54	evening set	11682 Feb 19 13:36	22°♋26'51	

	11682 Mar 03 08:20	0°♂			11686 Sep 25 08:53	0°♄	
max. Earth dist.	11682 Mar 16 17:32	8°♂40'18	2.62959 AU	morning rise	11686 Sep 26 18:27	1°♄05'43	
					11686 Nov 03 05:24	0°♄	
conjunction	11682 Apr 05 09:27	21°♂35'44	-1°08'12		11686 Dec 13 18:47	0°♄	
minimum elong	11682 Apr 05 08:56	21°♂34'53	1°08'25		11687 Jan 25 21:38	0°♄	
	11682 Apr 17 23:43	0°♄			11687 Mar 13 20:34	0°♄	
morning rise	11682 May 21 19:14	23°♄04'34			11687 May 07 21:47	0°♄	
	11682 May 31 17:30	0°♄		desc. node	11687 Jun 03 17:16	10°♄57'43	
	11682 Jul 12 15:17	0°♄		retrograde	11687 Jul 10 08:06	17°♄50'53	
	11682 Aug 22 00:04	0°♄		opposition	11687 Aug 19 17:49	8°♄15'19	-2°33'28
	11682 Sep 30 08:08	0°♄		greatest brilliancy	11687 Aug 19 18:50	8°♄14'19	-1.3m
asc. node	11682 Oct 12 19:25	9°♄34'59		min. Earth dist.	11687 Aug 20 18:19	7°♄51'08	0.68301 AU
	11682 Nov 08 11:05	0°♄			11687 Sep 13 20:55	30°♄	
	11682 Dec 18 15:23	0°♄		direct	11687 Sep 30 04:26	28°♄19'16	
	11683 Jan 31 04:53	0°♄			11687 Oct 17 11:17	0°♄	
	11683 Mar 28 17:16	0°♄			11687 Dec 30 02:37	0°♄	
retrograde	11683 May 01 16:37	6°♄59'43			11688 Feb 17 21:30	0°♄	
	11683 Jun 02 23:24	30°♄			11688 Apr 01 21:26	0°♄	
min. Earth dist.	11683 Jun 03 15:57	29°♄44'10	0.57492 AU		11688 May 12 14:38	0°♄	
greatest brilliancy	11683 Jun 09 09:39	27°♄30'14	-1.8m	asc. node	11688 Jun 03 01:43	16°♄28'26	
opposition	11683 Jun 10 02:15	27°♄14'05	3°07'02		11688 Jun 20 09:12	0°♄	
direct	11683 Jul 16 22:17	18°♄54'27		evening set	11688 Jul 20 19:45	24°♄04'24	
desc. node	11683 Aug 29 12:22	28°♄13'15			11688 Jul 28 06:59	0°♄	
	11683 Sep 03 04:10	0°♄			11688 Sep 04 07:25	0°♄	
	11683 Nov 04 01:56	0°♄					
	11683 Dec 26 07:49	0°♄		conjunction	11688 Sep 30 14:32	20°♄20'36	1°03'55
	11684 Feb 12 20:37	0°♄		minimum elong	11688 Sep 30 12:43	20°♄17'08	1°04'07
evening set	11684 Mar 28 14:43	29°♄21'10			11688 Oct 13 07:37	0°♄	
	11684 Mar 29 13:44	0°♄		max. Earth dist.	11688 Nov 20 17:41	28°♄20'54	2.44448 AU
max. Earth dist.	11684 Apr 13 11:48	10°♄10'22	2.52882 AU		11688 Nov 23 00:46	0°♄	
	11684 May 11 18:47	0°♄		morning rise	11688 Dec 04 00:02	7°♄49'35	
					11689 Jan 04 23:21	0°♄	
conjunction	11684 May 17 00:58	3°♄45'43	-0°59'26		11689 Feb 19 13:06	0°♄	
minimum elong	11684 May 17 02:31	3°♄48'30	1°00'05		11689 Apr 09 11:50	0°♄	
	11684 Jun 21 20:08	0°♄		desc. node	11689 Apr 20 11:05	6°♄20'39	
morning rise	11684 Jul 12 04:04	15°♄20'44			11689 Jun 04 02:09	0°♄	
	11684 Jul 31 06:08	0°♄		retrograde	11689 Aug 14 20:01	21°♄12'05	
asc. node	11684 Aug 29 11:43	22°♄46'32		opposition	11689 Sep 22 17:06	12°♄22'11	-4°28'36
	11684 Sep 07 16:46	0°♄		greatest brilliancy	11689 Sep 23 10:04	12°♄05'47	-1.4m
	11684 Oct 15 23:24	0°♄		min. Earth dist.	11689 Sep 27 13:35	10°♄29'43	0.63804 AU
	11684 Nov 24 00:54	0°♄		direct	11689 Nov 03 02:12	2°♄21'48	
	11685 Jan 04 00:38	0°♄			11690 Jan 21 20:27	0°♄	
	11685 Feb 17 16:37	0°♄			11690 Mar 10 13:36	0°♄	
	11685 Apr 12 10:46	0°♄		asc. node	11690 Apr 21 05:36	29°♄54'14	
retrograde	11685 Jun 06 06:23	14°♄51'18			11690 Apr 21 08:41	0°♄	
min. Earth dist.	11685 Jul 14 03:24	5°♄58'55	0.66115 AU		11690 May 30 12:31	0°♄	
opposition	11685 Jul 16 22:07	4°♄52'39	-0°00'23		11690 Jul 07 16:21	0°♄	
desc. node	11685 Jul 16 17:51	4°♄56'53			11690 Aug 15 00:37	0°♄	
greatest brilliancy	11685 Jul 16 22:11	4°♄52'35	-1.4m		11690 Sep 23 11:40	0°♄	
	11685 Jul 30 01:21	30°♄		evening set	11690 Oct 02 11:31	6°♄40'02	
direct	11685 Aug 25 20:16	25°♄29'15			11690 Nov 03 17:01	0°♄	
	11685 Sep 24 07:16	0°♄					
	11685 Dec 02 03:44	0°♄		conjunction	11690 Nov 29 16:40	18°♄10'42	0°49'14
	11686 Jan 22 23:19	0°♄		minimum elong	11690 Nov 29 18:26	18°♄13'44	0°49'58
	11686 Mar 10 13:47	0°♄			11690 Dec 17 00:18	0°♄	
	11686 Apr 22 18:22	0°♄		max. Earth dist.	11690 Dec 28 19:26	7°♄55'34	2.57480 AU
evening set	11686 May 14 23:50	16°♄12'25		morning rise	11691 Jan 19 19:02	22°♄26'51	
	11686 Jun 02 10:06	0°♄			11691 Jan 31 09:53	0°♄	
max. Earth dist.	11686 Jun 03 17:49	1°♄00'01	2.39457 AU	desc. node	11691 Mar 08 01:11	22°♄40'53	
	11686 Jul 11 08:17	0°♄			11691 Mar 19 19:01	0°♄	
					11691 May 08 09:16	0°♄	
conjunction	11686 Jul 15 17:14	3°♄25'35	-0°01'06		11691 Jul 01 02:14	0°♄	
minimum elong	11686 Jul 15 17:26	3°♄25'58	0°01'46		11691 Sep 20 09:52	0°♄	
behind sun begin	11686 Jul 14 12:54	2°♄30'02		retrograde	11691 Sep 29 00:02	0°♄26'18	
behind sun end	11686 Jul 16 21:58	4°♄21'55			11691 Oct 07 09:18	30°♄	
asc. node	11686 Jul 17 04:30	4°♄34'44		opposition	11691 Nov 03 19:10	22°♄56'04	-5°11'02
	11686 Aug 18 08:54	0°♄		greatest brilliancy	11691 Nov 05 08:25	22°♄22'21	-1.9m

min. Earth dist.	11691 Nov 12 01:50	19° ♄ 57'20	0.52882 AU	max. Earth dist.	11697 Mar 07 09:30	28° ♄ 16'34	2.65540 AU
direct	11691 Dec 12 21:11	13° ♄ 48'19			11697 Mar 10 01:48	0° ♄	
	11692 Feb 05 08:52	0° ♄					
asc. node	11692 Mar 08 12:28	18° ♄ 48'43		conjunction	11697 Mar 21 23:04	7° ♄ 41'18	-1°02'46
	11692 Mar 25 06:49	0° ♄		minimum elong	11697 Mar 21 22:10	7° ♄ 39'49	1°02'48
	11692 May 05 16:56	0° ♄			11697 Apr 24 20:47	0° ♄	
	11692 Jun 14 02:34	0° ♄		morning rise	11697 May 05 15:01	7° ♄ 12'38	
	11692 Jul 23 11:18	0° ♄			11697 Jun 07 23:47	0° ♄	
	11692 Sep 01 22:26	0° ♄			11697 Jul 20 10:41	0° ♄	
	11692 Oct 14 03:08	0° ♄			11697 Aug 30 10:15	0° ♄	
evening set	11692 Nov 22 20:44	27° ♄ 04'48			11697 Oct 09 09:44	0° ♄	
	11692 Nov 27 05:43	0° ♄		asc. node	11697 Oct 29 15:59	15° ♄ 18'02	
					11697 Nov 18 06:06	0° ♄	
conjunction	11693 Jan 10 15:03	29° ♄ 05'13	0°06'33		11697 Dec 29 15:34	0° ♄	
minimum elong	11693 Jan 10 15:19	29° ♄ 05'38	0°07'15		11698 Feb 15 00:10	0° ♄	
behind sun begin	11693 Jan 09 21:46	28° ♄ 37'20		retrograde	11698 Apr 15 09:22	19° ♄ 22'28	
behind sun end	11693 Jan 11 08:51	29° ♄ 33'56		min. Earth dist.	11698 May 16 00:35	12° ♄ 56'46	0.52561 AU
	11693 Jan 12 01:00	0° ♄		opposition	11698 May 23 16:11	10° ♄ 03'34	4°25'22
max. Earth dist.	11693 Jan 22 09:17	6° ♄ 39'20	2.65659 AU	greatest brilliancy	11698 May 22 12:20	10° ♄ 29'52	-2.0m
desc. node	11693 Jan 22 15:17	6° ♄ 48'58		direct	11698 Jun 27 19:17	2° ♄ 22'11	
morning rise	11693 Feb 24 18:40	27° ♄ 55'14		desc. node	11698 Sep 14 22:00	27° ♄ 43'39	
	11693 Feb 28 01:36	0° ♄			11698 Sep 19 10:28	0° ♄	
	11693 Apr 16 20:19	0° ♄			11698 Nov 13 07:37	0° ♄	
	11693 Jun 04 05:53	0° ♄			11699 Jan 02 20:35	0° ♄	
	11693 Jul 23 18:52	0° ♄			11699 Feb 19 19:57	0° ♄	
	11693 Sep 14 20:54	0° ♄		evening set	11699 Mar 14 04:44	14° ♄ 30'47	
retrograde	11693 Dec 02 23:39	26° ♄ 36'18		max. Earth dist.	11699 Apr 02 06:54	27° ♄ 11'14	2.57389 AU
opposition	11694 Jan 02 18:10	21° ♄ 15'40	-1°35'07		11699 Apr 06 11:13	0° ♄	
greatest brilliancy	11694 Jan 03 05:46	21° ♄ 07'14	-2.9m				
min. Earth dist.	11694 Jan 09 00:00	19° ♄ 27'18	0.39247 AU	conjunction	11699 Apr 30 04:01	16° ♄ 12'11	-1°07'34
asc. node	11694 Jan 24 17:01	15° ♄ 54'46		minimum elong	11699 Apr 30 04:39	16° ♄ 13'17	1°08'04
direct	11694 Feb 04 06:24	15° ♄ 07'29			11699 May 19 20:19	0° ♄	
	11694 Mar 26 11:24	0° ♄		morning rise	11699 Jun 20 07:17	22° ♄ 42'04	
	11694 May 14 19:13	0° ♄			11699 Jun 30 04:42	0° ♄	
	11694 Jun 27 12:14	0° ♄			11699 Aug 08 22:23	0° ♄	
	11694 Aug 09 20:29	0° ♄		asc. node	11699 Sep 16 06:48	29° ♄ 42'13	
	11694 Sep 23 05:04	0° ♄			11699 Sep 16 15:56	0° ♄	
	11694 Nov 07 21:36	0° ♄			11699 Oct 25 04:14	0° ♄	
desc. node	11694 Dec 10 11:52	20° ♄ 57'16			11699 Dec 03 11:42	0° ♄	
	11694 Dec 24 16:27	0° ♄			11700 Jan 13 23:41	0° ♄	
evening set	11695 Jan 01 23:04	5° ♄ 15'36			11700 Mar 01 08:15	0° ♄	
	11695 Feb 09 23:54	0° ♄			11700 May 10 14:48	0° ♄	
max. Earth dist.	11695 Feb 14 01:14	2° ♄ 34'12	2.68368 AU	retrograde	11700 May 24 15:14	1° ♄ 15'06	
					11700 Jun 07 03:24	30° ♄	
conjunction	11695 Feb 15 19:07	3° ♄ 40'35	-0°34'28	min. Earth dist.	11700 Jun 29 18:24	22° ♄ 56'25	0.63454 AU
minimum elong	11695 Feb 15 18:11	3° ♄ 39'07	0°34'04	opposition	11700 Jul 04 00:23	21° ♄ 15'26	1°08'19
	11695 Mar 29 04:13	0° ♄		greatest brilliancy	11700 Jul 03 20:24	21° ♄ 19'23	-1.5m
morning rise	11695 Mar 31 01:25	1° ♄ 12'15		desc. node	11700 Aug 03 05:12	12° ♄ 40'58	
	11695 May 14 17:36	0° ♄		direct	11700 Aug 11 22:20	12° ♄ 12'27	
	11695 Jun 29 10:01	0° ♄			11700 Oct 15 14:29	0° ♄	
	11695 Aug 13 04:49	0° ♄			11700 Dec 12 13:03	0° ♄	
	11695 Sep 26 07:59	0° ♄			11701 Jan 31 15:42	0° ♄	
	11695 Nov 09 18:55	0° ♄			11701 Mar 18 19:15	0° ♄	
asc. node	11695 Dec 12 19:30	20° ♄ 54'49		evening set	11701 Apr 25 19:14	26° ♄ 19'14	
	11695 Dec 28 20:53	0° ♄			11701 Apr 30 22:55	0° ♄	
retrograde	11696 Feb 21 08:35	17° ♄ 07'53		max. Earth dist.	11701 May 09 18:08	6° ♄ 20'37	2.44772 AU
min. Earth dist.	11696 Mar 18 00:57	12° ♄ 49'03	0.39243 AU		11701 Jun 10 17:42	0° ♄	
greatest brilliancy	11696 Mar 23 09:07	11° ♄ 13'47	-2.8m				
opposition	11696 Mar 24 20:30	10° ♄ 47'16	6°04'41	conjunction	11701 Jun 20 13:08	7° ♄ 25'49	-0°30'22
direct	11696 Apr 23 21:06	5° ♄ 23'22		minimum elong	11701 Jun 20 15:15	7° ♄ 29'50	0°31'07
	11696 Jul 06 07:51	0° ♄			11701 Jul 19 19:44	0° ♄	
	11696 Aug 28 01:37	0° ♄		asc. node	11701 Aug 03 22:06	11° ♄ 49'09	
	11696 Oct 16 16:58	0° ♄		morning rise	11701 Aug 26 15:42	29° ♄ 44'39	
desc. node	11696 Oct 27 15:03	6° ♄ 40'23			11701 Aug 26 23:28	0° ♄	
	11696 Dec 04 14:06	0° ♄			11701 Oct 04 01:07	0° ♄	
	11697 Jan 21 20:18	0° ♄			11701 Nov 11 22:06	0° ♄	
evening set	11697 Feb 05 18:12	9° ♄ 23'23			11701 Dec 22 12:50	0° ♄	

	11702 Feb 03 23:11	0°♂			11707 Feb 22 01:08	0°♂	
	11702 Mar 24 05:50	0°♂	asc. node		11707 Mar 27 01:24	21°♂59'06	
	11702 May 27 08:13	0°♂			11707 Apr 07 07:02	0°♂	
desc. node	11702 Jun 21 08:18	5°♂08'11			11707 May 17 08:47	0°♂	
retrograde	11702 Jun 28 01:22	5°♂24'47			11707 Jun 25 01:31	0°♂	
	11702 Jul 27 05:45	30°♂			11707 Aug 02 21:13	0°♂	
opposition	11702 Aug 07 17:07	25°♂37'30 -1°38'23			11707 Sep 11 20:09	0°♂	
min. Earth dist.	11702 Aug 07 05:45	25°♂48'46 0.68233 AU			11707 Oct 23 13:29	0°♂	
greatest brilliancy	11702 Aug 07 15:36	25°♂39'00 -1.3m	evening set		11707 Nov 06 13:43	9°♂45'56	
direct	11702 Sep 17 17:43	15°♂51'17			11707 Dec 06 06:38	0°♂	
	11702 Nov 12 19:33	0°♂					
	11703 Jan 09 21:40	0°♂	conjunction		11707 Dec 28 04:02	14°♂33'00 0°23'44	
	11703 Feb 26 23:40	0°♂	minimum elong		11707 Dec 28 04:57	14°♂34'31 0°24'30	
	11703 Apr 11 13:13	0°♂	max. Earth dist.		11708 Jan 15 04:28	26°♂19'49 2.63106 AU	
	11703 May 22 04:46	0°♂			11708 Jan 20 20:22	0°♂	
asc. node	11703 Jun 21 18:30	23°♂33'24	desc. node		11708 Feb 10 08:04	13°♂09'47	
evening set	11703 Jun 23 10:45	24°♂52'02	morning rise		11708 Feb 13 00:43	14°♂52'52	
	11703 Jun 29 23:55	0°♂			11708 Mar 07 21:48	0°♂	
	11703 Aug 06 21:58	0°♂			11708 Apr 25 04:22	0°♂	
					11708 Jun 13 22:18	0°♂	
conjunction	11703 Sep 02 11:29	21°♂02'06 0°47'29			11708 Aug 06 00:07	0°♂	
minimum elong	11703 Sep 02 07:32	20°♂54'18 0°47'15			11708 Oct 18 20:38	0°♂	
	11703 Sep 13 21:13	0°♂	retrograde		11708 Nov 04 18:58	1°♂39'09	
	11703 Oct 22 18:40	0°♂			11708 Nov 20 21:49	30°♂	
max. Earth dist.	11703 Oct 24 02:44	1°♂00'37 2.38853 AU	opposition		11708 Dec 07 12:57	25°♂24'43 -3°55'32	
morning rise	11703 Nov 12 09:42	15°♂25'59	greatest brilliancy		11708 Dec 08 22:10	24°♂57'43 -2.5m	
	11703 Dec 02 08:46	0°♂	min. Earth dist.		11708 Dec 16 02:04	22°♂38'50 0.44218 AU	
	11704 Jan 14 06:28	0°♂	direct		11709 Jan 12 06:51	17°♂49'19	
	11704 Feb 29 03:22	0°♂	asc. node		11709 Feb 11 08:49	23°♂43'55	
	11704 Apr 19 10:01	0°♂			11709 Feb 26 01:43	0°♂	
desc. node	11704 May 08 03:51	10°♂07'07			11709 Apr 17 01:50	0°♂	
	11704 Jun 21 12:43	0°♂			11709 May 29 07:06	0°♂	
retrograde	11704 Aug 01 00:36	8°♂04'41			11709 Jul 09 08:09	0°♂	
	11704 Sep 06 20:09	30°♂			11709 Aug 20 01:59	0°♂	
opposition	11704 Sep 09 16:03	28°♂54'03 -3°49'24			11709 Oct 02 07:51	0°♂	
greatest brilliancy	11704 Sep 10 01:26	28°♂44'54 -1.3m			11709 Nov 16 05:46	0°♂	
min. Earth dist.	11704 Sep 13 00:39	27°♂35'25 0.66355 AU	evening set		11709 Dec 19 05:35	21°♂26'47	
direct	11704 Oct 21 06:55	18°♂51'19	desc. node		11709 Dec 28 01:16	27°♂07'02	
	11704 Dec 07 18:06	0°♂			11710 Jan 01 13:09	0°♂	
	11705 Feb 02 21:39	0°♂					
	11705 Mar 20 11:41	0°♂	conjunction		11710 Feb 03 03:21	20°♂46'45 -0°19'40	
	11705 Apr 30 16:23	0°♂	minimum elong		11710 Feb 03 02:45	20°♂45'48 0°19'07	
asc. node	11705 May 08 19:17	6°♂09'17	max. Earth dist.		11710 Feb 06 08:40	22°♂49'30 2.67973 AU	
	11705 Jun 08 14:40	0°♂			11710 Feb 17 16:08	0°♂	
	11705 Jul 16 14:52	0°♂	morning rise		11710 Mar 18 18:03	18°♂25'41	
	11705 Aug 23 18:51	0°♂			11710 Apr 05 23:55	0°♂	
evening set	11705 Sep 07 01:13	11°♂02'12			11710 May 23 02:17	0°♂	
	11705 Oct 02 00:14	0°♂			11710 Jul 08 20:05	0°♂	
					11710 Aug 24 10:36	0°♂	
conjunction	11705 Nov 10 02:08	28°♂39'14 1°01'24			11710 Oct 10 19:45	0°♂	
minimum elong	11705 Nov 10 03:40	28°♂41'59 1°02'00			11710 Dec 02 11:34	0°♂	
	11705 Nov 11 23:17	0°♂	asc. node		11710 Dec 30 11:56	11°♂20'03	
max. Earth dist.	11705 Dec 17 12:32	24°♂51'52 2.52850 AU	retrograde		11711 Jan 24 02:25	15°♂12'07	
	11705 Dec 25 01:20	0°♂	min. Earth dist.		11711 Feb 21 02:22	10°♂39'52 0.36556 AU	
morning rise	11706 Jan 04 07:09	6°♂54'27	opposition		11711 Feb 23 05:25	10°♂05'34 4°04'06	
	11706 Feb 08 10:01	0°♂	greatest brilliancy		11711 Feb 22 19:14	10°♂12'25 -3.0m	
desc. node	11706 Mar 25 18:25	28°♂31'40	direct		11711 Mar 24 10:25	5°♂14'30	
	11706 Mar 28 04:11	0°♂			11711 Jun 03 15:06	0°♂	
	11706 May 18 04:29	0°♂			11711 Jul 23 20:48	0°♂	
	11706 Jul 16 15:12	0°♂			11711 Sep 09 11:01	0°♂	
retrograde	11706 Sep 10 18:16	14°♂08'26			11711 Oct 26 23:56	0°♂	
opposition	11706 Oct 18 00:02	6°♂01'17 -5°08'54	desc. node		11711 Nov 15 01:59	11°♂58'54	
greatest brilliancy	11706 Oct 19 06:25	5°♂32'47 -1.7m			11711 Dec 13 20:14	0°♂	
min. Earth dist.	11706 Oct 25 02:30	3°♂21'58 0.57848 AU	evening set		11712 Jan 25 00:38	26°♂28'11	
	11706 Nov 04 01:19	30°♂			11712 Jan 30 15:06	0°♂	
direct	11706 Nov 27 08:35	26°♂22'01	max. Earth dist.		11712 Feb 28 15:09	18°♂22'55 2.67291 AU	
	11706 Dec 21 19:45	0°♂					

conjunction	11712 Mar 09 03:02	24° H 26'50	-0°53'56	retrograde	11717 Jun 14 20:21	22° \approx 45'57	
minimum elong	11712 Mar 09 01:56	24° H 25'06	0°53'47	desc. node	11717 Jul 07 21:26	19° \approx 16'41	
	11712 Mar 17 18:41	0° Y		min. Earth dist.	11717 Jul 23 14:50	13° \approx 36'56	0.67146 AU
morning rise	11712 Apr 21 19:17	22° Y 45'12		opposition	11717 Jul 25 13:52	12° \approx 50'15	-0°38'06
	11712 May 02 19:09	0° B		greatest brilliancy	11717 Jul 25 12:29	12° \approx 51'38	-1.4m
	11712 Jun 16 09:48	0° II		direct	11717 Sep 03 23:14	3° \approx 17'32	
	11712 Jul 29 13:24	0° G			11717 Nov 26 02:32	0° H	
	11712 Sep 09 09:09	0° Ω			11718 Jan 18 13:33	0° Y	
	11712 Oct 20 08:20	0° M			11718 Mar 06 15:25	0° B	
asc. node	11712 Nov 16 09:28	19° M 47'35			11718 Apr 18 23:06	0° II	
	11712 Nov 30 13:21	0° L		evening set	11718 May 28 19:35	29° II 23'18	
	11713 Jan 13 21:44	0° M			11718 May 29 14:59	0° G	
retrograde	11713 Mar 28 22:10	28° M 40'03		max. Earth dist.	11718 Jul 03 15:48	26° G 59'30	2.37006 AU
min. Earth dist.	11713 Apr 26 03:21	23° M 09'06	0.47143 AU		11718 Jul 07 12:02	0° Ω	
greatest brilliancy	11713 May 02 21:39	20° M 44'46	-2.3m	asc. node	11718 Jul 08 10:45	0° Ω 44'32	
opposition	11713 May 04 12:02	20° M 10'25	5°36'47				
direct	11713 Jun 06 16:39	13° M 17'08		conjunction	11718 Aug 02 07:35	20° Ω 21'23	0°17'50
	11713 Aug 05 13:31	0° J		minimum elong	11718 Aug 02 05:44	20° Ω 17'44	0°17'15
desc. node	11713 Oct 02 09:01	0° Z 09'32			11718 Aug 14 11:32	0° M	
	11713 Oct 02 02:15	0° Z			11718 Sep 21 10:55	0° L	
	11713 Nov 22 16:24	0° \approx		morning rise	11718 Oct 15 09:23	18° L 36'30	
	11714 Jan 11 02:00	0° H			11718 Oct 30 07:04	0° M	
	11714 Feb 27 16:17	0° Y			11718 Dec 09 19:38	0° J	
evening set	11714 Feb 28 15:07	0° Y 36'44			11719 Jan 21 18:52	0° Z	
max. Earth dist.	11714 Mar 23 11:59	15° Y 29'14	2.61200 AU		11719 Mar 09 04:26	0° \approx	
	11714 Apr 14 08:00	0° B			11719 Apr 30 18:37	0° H	
				desc. node	11719 May 25 20:12	11° H 52'04	
conjunction	11714 Apr 15 00:39	0° B 28'00	-1°09'28	retrograde	11719 Jul 19 01:00	25° H 26'26	
minimum elong	11714 Apr 15 00:29	0° B 27'44	1°09'48	opposition	11719 Aug 28 05:49	15° H 58'47	-3°03'10
	11714 May 27 23:00	0° II		greatest brilliancy	11719 Aug 28 09:16	15° H 55'24	-1.3m
morning rise	11714 Jun 01 18:40	3° II 23'57		min. Earth dist.	11719 Aug 30 02:20	15° H 15'02	0.67909 AU
	11714 Jul 08 16:18	0° G		direct	11719 Oct 08 19:56	5° H 59'04	
	11714 Aug 17 19:31	0° Ω			11719 Dec 23 17:13	0° Y	
	11714 Sep 25 21:47	0° M			11720 Feb 13 07:00	0° B	
asc. node	11714 Oct 04 03:08	6° M 21'31			11720 Mar 28 18:30	0° II	
	11714 Nov 03 18:08	0° L			11720 May 08 15:34	0° G	
	11714 Dec 13 11:50	0° M		asc. node	11720 May 25 11:19	12° G 51'49	
	11715 Jan 24 23:15	0° J			11720 Jun 16 11:10	0° Ω	
	11715 Mar 16 06:04	0° Z			11720 Jul 24 09:16	0° M	
retrograde	11715 May 11 07:29	16° Z 33'16		evening set	11720 Aug 08 04:03	11° M 42'38	
min. Earth dist.	11715 Jun 14 11:33	8° Z 53'32	0.59864 AU		11720 Aug 31 10:13	0° L	
opposition	11715 Jun 20 03:58	6° Z 39'41	2°22'22		11720 Oct 09 11:11	0° M	
greatest brilliancy	11715 Jun 19 16:48	6° Z 50'38	-1.7m				
	11715 Jul 10 10:17	30° R J		conjunction	11720 Oct 17 00:48	5° M 40'50	1°06'20
direct	11715 Jul 27 20:05	28° J 02'33		minimum elong	11720 Oct 17 00:40	5° M 40'35	1°06'44
	11715 Aug 15 10:24	0° Z			11720 Nov 19 05:15	0° J	
desc. node	11715 Aug 20 16:45	1° Z 10'03		max. Earth dist.	11720 Dec 02 12:54	9° J 28'54	2.47574 AU
	11715 Oct 29 04:26	0° \approx		morning rise	11720 Dec 16 19:01	19° J 27'13	
	11715 Dec 21 22:55	0° H			11721 Jan 01 03:46	0° Z	
	11716 Feb 08 23:40	0° Y			11721 Feb 15 13:52	0° \approx	
	11716 Mar 25 20:36	0° B			11721 Apr 04 22:40	0° H	
evening set	11716 Apr 07 23:56	8° B 56'36		desc. node	11721 Apr 11 11:52	3° H 53'19	
max. Earth dist.	11716 Apr 22 14:24	19° B 03'58	2.50107 AU		11721 May 28 06:20	0° Y	
	11716 May 08 01:28	0° II		retrograde	11721 Aug 24 18:36	29° Y 31'42	
				opposition	11721 Oct 02 03:46	20° Y 55'21	-4°46'59
conjunction	11716 May 29 06:41	15° II 21'13	-0°51'18	greatest brilliancy	11721 Oct 03 01:27	20° Y 34'35	-1.5m
minimum elong	11716 May 29 08:42	15° II 24'54	0°52'01	min. Earth dist.	11721 Oct 07 20:11	18° Y 44'56	0.61964 AU
	11716 Jun 18 00:57	0° G		direct	11721 Nov 12 07:03	10° Y 59'45	
morning rise	11716 Jul 27 22:58	0° Ω 28'19			11722 Jan 14 03:03	0° B	
	11716 Jul 27 08:22	0° Ω			11722 Mar 05 08:01	0° II	
asc. node	11716 Aug 20 17:28	19° Ω 01'29		asc. node	11722 Apr 12 15:50	26° II 57'12	
	11716 Sep 03 16:36	0° M			11722 Apr 16 19:01	0° G	
	11716 Oct 11 21:11	0° L			11722 May 26 05:09	0° Ω	
	11716 Nov 19 20:05	0° M			11722 Jul 03 12:33	0° M	
	11716 Dec 30 14:33	0° J			11722 Aug 10 23:49	0° L	
	11717 Feb 12 14:58	0° Z			11722 Sep 19 13:42	0° M	
	11717 Apr 04 09:56	0° \approx		evening set	11722 Oct 16 16:10	19° M 49'54	

	11722 Oct 30 21:47	0°♊				11727 Aug 08 05:15	0°♎		
conjunction	11722 Dec 11 04:54	28°♊35'05	0°40'25			11727 Sep 20 07:48	0°♏		
minimum elong	11722 Dec 11 06:27	28°♊37'41	0°41'10	asc. node		11727 Nov 02 01:20	0°♐		
	11722 Dec 13 07:08	0°♋				11727 Dec 04 03:45	21°♐58'30		
max. Earth dist.	11723 Jan 05 04:17	15°♋16'33	2.59693 AU			11727 Dec 16 10:30	0°♌		
	11723 Jan 27 16:48	0°♌		retrograde		11728 Feb 13 01:45	0°♍		
morning rise	11723 Jan 29 13:07	1°♌11'40				11728 Mar 07 08:55	3°♍44'08		
desc. node	11723 Feb 27 00:37	19°♌23'54		min. Earth dist.		11728 Mar 30 12:03	30°♌♌		
	11723 Mar 15 21:33	0°♍		greatest brilliancy		11728 Apr 02 12:11	29°♌05'39	0.41769 AU	
	11723 May 03 21:25	0°♎		opposition		11728 Apr 08 17:48	27°♌05'53	-2.6m	
	11723 Jun 24 17:17	0°♏		direct		11728 Apr 10 10:53	26°♌32'34	6°16'24	
	11723 Aug 24 20:35	0°♐				11728 May 11 14:58	20°♌36'56		
retrograde	11723 Oct 12 04:31	11°♐09'15				11728 Jun 22 05:50	0°♍		
opposition	11723 Nov 16 00:20	4°♐03'39	-4°57'44			11728 Aug 21 08:37	0°♊		
greatest brilliancy	11723 Nov 17 15:17	3°♐29'30	-2.1m	desc. node		11728 Oct 11 19:54	0°♋		
min. Earth dist.	11723 Nov 24 17:22	1°♐01'14	0.49842 AU			11728 Oct 18 19:17	4°♋10'18		
	11723 Nov 27 19:19	30°♋♋				11728 Nov 30 11:40	0°♌		
direct	11723 Dec 24 03:33	25°♋22'03		evening set		11729 Jan 18 02:19	0°♍		
	11724 Jan 20 00:25	0°♐				11729 Feb 14 14:48	17°♍19'23		
asc. node	11724 Feb 28 21:35	18°♐46'20		max. Earth dist.		11729 Mar 06 10:45	0°♎		
	11724 Mar 18 00:57	0°♎				11729 Mar 13 16:48	4°♎40'58	2.64206 AU	
	11724 Apr 29 23:46	0°♏		conjunction		11729 Mar 31 02:18	16°♎01'21	-1°06'26	
	11724 Jun 09 01:08	0°♐		minimum elong		11729 Mar 31 01:35	16°♎00'11	1°06'35	
	11724 Jul 18 20:14	0°♑				11729 Apr 21 04:33	0°♏		
	11724 Aug 28 15:34	0°♒		morning rise		11729 May 15 15:06	16°♏31'56		
	11724 Oct 10 03:05	0°♊				11729 Jun 04 03:07	0°♐		
evening set	11724 Nov 23 10:55	0°♋				11729 Jun 16 07:22	0°♑		
	11724 Dec 03 10:27	6°♋35'56				11729 Aug 25 22:57	0°♏		
desc. node	11725 Jan 08 09:14	0°♌		asc. node		11729 Oct 04 13:32	0°♐		
	11725 Jan 13 16:45	3°♌25'05				11729 Oct 20 21:26	12°♐27'44		
conjunction	11725 Jan 19 24:00	7°♌27'45	-0°03'27			11729 Nov 12 23:01	0°♑		
minimum elong	11725 Jan 19 23:54	7°♌27'36	0°02'47			11729 Dec 23 12:21	0°♒		
behind sun begin	11725 Jan 19 05:04	6°♌57'26				11730 Feb 06 03:06	0°♊		
behind sun end	11725 Jan 20 18:44	7°♌57'45		retrograde		11730 Apr 20 22:08	0°♋		
max. Earth dist.	11725 Jan 28 14:30	12°♌57'58	2.66704 AU			11730 Apr 25 20:45	0°♋10'22		
	11725 Feb 24 09:36	0°♍		min. Earth dist.		11730 Apr 30 18:08	30°♋♋		
morning rise	11725 Mar 05 11:12	5°♍44'07		opposition		11730 May 27 19:34	23°♋16'31	0.55380 AU	
	11725 Apr 12 23:22	0°♎		greatest brilliancy		11730 Jun 03 20:04	20°♋34'37	3°40'29	
	11725 May 30 19:39	0°♏		direct		11730 Jun 02 22:48	20°♋55'03	-1.9m	
	11725 Jul 18 02:40	0°♐		desc. node		11730 Jul 09 23:28	12°♋30'54		
	11725 Sep 05 21:48	0°♑				11730 Sep 06 03:10	27°♋50'11		
retrograde	11725 Nov 01 10:31	0°♒				11730 Sep 11 00:23	0°♋		
asc. node	11725 Dec 22 06:22	13°♒15'59				11730 Nov 08 06:33	0°♌		
opposition	11726 Jan 16 03:01	9°♒36'51		evening set		11730 Dec 29 18:07	0°♍		
greatest brilliancy	11726 Jan 21 02:13	8°♒17'16	0°22'53			11731 Feb 16 01:57	0°♎		
min. Earth dist.	11726 Jan 21 03:19	8°♒16'30	-3.0m	max. Earth dist.		11731 Mar 23 19:31	23°♎17'56		
direct	11726 Jan 24 22:06	7°♒14'55	0.37362 AU			11731 Apr 02 19:34	0°♏		
	11726 Feb 20 19:43	2°♒53'18				11731 Apr 09 23:24	4°♏50'54	2.54988 AU	
	11726 May 04 16:04	0°♐		conjunction		11731 May 11 00:19	26°♏21'42	-1°03'47	
	11726 Jun 20 15:15	0°♑		minimum elong		11731 May 11 01:29	26°♏23'46	1°04'23	
	11726 Aug 04 10:04	0°♒				11731 May 16 03:33	0°♐		
	11726 Sep 18 14:31	0°♊				11731 Jun 26 09:01	0°♑		
desc. node	11726 Nov 03 19:37	0°♋		morning rise		11731 Jul 03 16:50	5°♑28'18		
	11726 Dec 01 14:57	17°♋45'41		asc. node		11731 Aug 04 22:57	0°♏		
evening set	11726 Dec 20 21:58	0°♌				11731 Sep 07 13:35	26°♏07'03		
	11727 Jan 11 02:19	13°♌23'48				11731 Sep 12 12:38	0°♐		
	11727 Feb 06 08:37	0°♍				11731 Oct 20 21:20	0°♑		
max. Earth dist.	11727 Feb 20 00:43	8°♍39'39	2.68212 AU			11731 Nov 29 00:09	0°♒		
						11732 Jan 09 02:36	0°♊		
conjunction	11727 Feb 24 13:10	11°♍31'47	-0°42'20			11732 Feb 23 05:44	0°♋		
minimum elong	11727 Feb 24 12:07	11°♍30'07	0°42'01			11732 Apr 20 02:23	0°♌		
	11727 Mar 25 12:14	0°♎		retrograde		11732 Jun 01 11:38	9°♌38'24		
morning rise	11727 Apr 08 19:53	9°♎12'10		min. Earth dist.		11732 Jul 08 15:12	1°♌00'20	0.65061 AU	
	11727 May 10 20:26	0°♏				11732 Jul 11 04:03	30°♌♋		
	11727 Jun 25 02:35	0°♐		opposition		11732 Jul 12 01:36	29°♋38'37	0°27'30	

greatest brilliancy	11732 Jul 12 00:21	29° Z 39'51	-1.4m		11737 Jul 11 13:55	0° M	
desc. node	11732 Jul 24 09:31	25° Z 02'52			11737 Aug 18 19:40	0° L	
direct	11732 Aug 20 14:01	20° Z 23'33		evening set	11737 Sep 22 10:08	26° L 28'03	
	11732 Oct 04 12:28	0° \approx			11737 Sep 27 03:08	0° M	
	11732 Dec 06 09:50	0° H			11737 Nov 07 04:15	0° Z	
	11733 Jan 26 12:18	0° Y					
	11733 Mar 13 23:33	0° B		conjunction	11737 Nov 22 02:47	10° Z 33'30	0°55'00
	11733 Apr 26 05:07	0° II		minimum elong	11737 Nov 22 04:35	10° Z 36'39	0°55'41
evening set	11733 May 06 20:07	7° II 39'59			11737 Dec 20 07:50	0° Z	
max. Earth dist.	11733 May 22 09:40	19° II 05'50	2.41794 AU	max. Earth dist.	11737 Dec 24 18:06	2° Z 59'46	2.55503 AU
	11733 Jun 05 23:27	0° L		morning rise	11738 Jan 13 21:21	16° Z 26'12	
					11738 Feb 03 15:24	0° \approx	
conjunction	11733 Jul 04 17:16	21° L 59'52	-0°14'36	desc. node	11738 Mar 15 19:03	25° \approx 27'54	
minimum elong	11733 Jul 04 18:35	22° L 02'26	0°15'20		11738 Mar 23 02:42	0° H	
behind sun begin	11733 Jul 04 09:37	21° L 45'02			11738 May 12 04:25	0° Y	
behind sun end	11733 Jul 05 03:34	22° L 19'49			11738 Jul 06 15:47	0° B	
	11733 Jul 15 00:04	0° L		retrograde	11738 Sep 21 07:33	23° B 38'34	
asc. node	11733 Jul 25 05:55	8° L 01'25		opposition	11738 Oct 27 19:35	15° B 50'44	-5°12'50
	11733 Aug 22 02:13	0° M		greatest brilliancy	11738 Oct 29 06:14	15° B 18'50	-1.8m
morning rise	11733 Sep 13 14:41	17° M 48'32		min. Earth dist.	11738 Nov 04 15:07	12° B 58'47	0.55207 AU
	11733 Sep 29 02:34	0° L		direct	11738 Dec 06 13:37	6° B 26'34	
	11733 Nov 06 22:15	0° M			11739 Feb 13 06:48	0° II	
	11733 Dec 17 10:27	0° Z		asc. node	11739 Mar 17 11:51	20° II 11'45	
	11734 Jan 29 14:03	0° Z			11739 Mar 31 16:41	0° L	
	11734 Mar 17 21:23	0° \approx			11739 May 11 11:13	0° L	
	11734 May 14 04:42	0° H			11739 Jun 19 12:16	0° M	
desc. node	11734 Jun 11 10:13	9° H 48'13			11739 Jul 28 13:59	0° L	
retrograde	11734 Jul 05 14:39	13° H 03'03			11739 Sep 06 18:12	0° M	
opposition	11734 Aug 15 04:21	3° H 21'48	-2°11'24		11739 Oct 18 16:10	0° Z	
greatest brilliancy	11734 Aug 15 03:56	3° H 22'13	-1.3m	evening set	11739 Nov 17 04:54	20° Z 20'10	
min. Earth dist.	11734 Aug 15 12:57	3° H 13'18	0.68407 AU		11739 Dec 01 13:10	0° Z	
	11734 Aug 23 21:17	30° R \approx					
direct	11734 Sep 25 11:45	23° \approx 29'33		conjunction	11740 Jan 06 02:49	23° Z 27'43	0°13'42
	11734 Oct 31 07:49	0° H		minimum elong	11740 Jan 06 03:21	23° Z 28'35	0°14'27
	11735 Jan 03 14:57	0° Y		behind sun begin	11740 Jan 05 19:03	23° Z 15'05	
	11735 Feb 21 16:56	0° B		behind sun end	11740 Jan 06 11:39	23° Z 42'05	
	11735 Apr 06 13:40	0° II			11740 Jan 16 04:46	0° \approx	
	11735 May 17 07:22	0° L		max. Earth dist.	11740 Jan 20 15:55	2° \approx 52'55	2.64620 AU
asc. node	11735 Jun 12 02:11	19° L 48'52		desc. node	11740 Jan 31 08:40	9° \approx 45'27	
	11735 Jun 25 02:51	0° L		morning rise	11740 Feb 20 22:59	22° \approx 53'07	
evening set	11735 Jul 09 13:31	11° L 23'16			11740 Mar 03 04:49	0° H	
	11735 Aug 02 00:49	0° M			11740 Apr 20 03:49	0° Y	
	11735 Sep 09 00:21	0° L			11740 Jun 08 01:26	0° B	
					11740 Jul 28 19:51	0° II	
conjunction	11735 Sep 19 18:14	8° L 22'55	0°58'48		11740 Sep 24 02:16	0° L	
minimum elong	11735 Sep 19 15:09	8° L 16'56	0°58'49	retrograde	11740 Nov 20 14:30	15° L 35'16	
	11735 Oct 17 22:25	0° M		opposition	11740 Dec 22 05:41	9° L 51'17	-2°46'37
max. Earth dist.	11735 Nov 12 10:15	19° M 00'38	2.41887 AU	greatest brilliancy	11740 Dec 23 04:13	9° L 33'57	-2.7m
morning rise	11735 Nov 26 04:58	29° M 02'40		min. Earth dist.	11740 Dec 29 19:40	7° L 32'26	0.41295 AU
	11735 Nov 27 12:46	0° Z		direct	11741 Jan 25 05:42	3° L 03'05	
	11736 Jan 09 09:15	0° Z		asc. node	11741 Feb 01 16:57	3° L 27'10	
	11736 Feb 23 23:40	0° \approx			11741 Apr 06 12:42	0° L	
	11736 Apr 13 07:46	0° H			11741 May 21 13:11	0° M	
desc. node	11736 Apr 28 04:41	8° H 24'21			11741 Jul 02 19:09	0° L	
	11736 Jun 09 23:42	0° Y			11741 Aug 14 07:08	0° M	
retrograde	11736 Aug 09 07:41	15° Y 59'38			11741 Sep 27 01:25	0° Z	
opposition	11736 Sep 17 14:15	6° Y 59'52	-4°13'08		11741 Nov 11 08:07	0° Z	
greatest brilliancy	11736 Sep 18 03:42	6° Y 46'48	-1.4m	desc. node	11741 Dec 18 04:11	23° Z 48'06	
min. Earth dist.	11736 Sep 21 19:05	5° Y 22'06	0.65079 AU	evening set	11741 Dec 27 17:17	29° Z 54'25	
	11736 Oct 07 10:57	30° R H			11741 Dec 27 20:46	0° \approx	
direct	11736 Oct 29 03:28	26° H 57'37					
	11736 Nov 21 05:12	0° Y		conjunction	11742 Feb 10 23:01	28° \approx 39'38	-0°28'33
	11737 Jan 27 02:21	0° B		minimum elong	11742 Feb 10 22:12	28° \approx 38'21	0°28'04
	11737 Mar 14 20:33	0° II		max. Earth dist.	11742 Feb 11 08:57	28° \approx 55'22	2.68298 AU
	11737 Apr 25 10:08	0° L			11742 Feb 13 01:43	0° H	
asc. node	11737 Apr 29 05:07	2° L 50'56		morning rise	11742 Mar 26 07:43	26° H 11'00	
	11737 Jun 03 11:55	0° L			11742 Apr 01 07:33	0° Y	

	11742 May 18 02:35	0°♄	greatest brilliancy	11747 Jun 28 12:00	15°♄44'39	-1.6m
	11742 Jul 03 05:43	0°♂	direct	11747 Aug 06 04:08	6°♄45'48	
	11742 Aug 17 17:49	0°♄	desc. node	11747 Aug 10 20:31	6°♄53'44	
	11742 Oct 02 00:23	0°♂		11747 Oct 21 08:59	0°♄	
	11742 Nov 17 16:56	0°♄		11747 Dec 16 08:21	0°♄	
asc. node	11742 Dec 20 20:19	18°♄48'45		11748 Feb 04 00:47	0°♄	
	11743 Jan 16 16:32	0°♄		11748 Mar 21 02:50	0°♄	
retrograde	11743 Feb 10 06:27	3°♄59'20	evening set	11748 Apr 17 20:04	19°♄01'43	
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direct	11743 Apr 11 20:37	23°♄14'42		minimum elong	11748 Jun 10 11:28	27°♂54'52 0°41'12
	11743 May 15 19:52	0°♄			11748 Jun 13 06:14	0°♄
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	11743 Sep 02 22:51	0°♄	asc. node	11748 Aug 10 23:54	15°♂15'37	
	11743 Oct 21 13:02	0°♄	morning rise	11748 Aug 13 02:29	16°♂54'55	
desc. node	11743 Nov 05 06:35	9°♄07'39	greatest brilliancy	11748 Aug 26 14:00	27°♂31'44	1.2m
	11743 Dec 08 22:06	0°♄		11748 Aug 29 17:11	0°♄	
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evening set	11744 Feb 01 20:52	4°♄20'55		11748 Nov 14 16:43	0°♂	
max. Earth dist.	11744 Mar 04 17:45	24°♄35'12	2.66433 AU	11748 Dec 25 07:16	0°♄	
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				11749 Mar 27 20:00	0°♄	
conjunction	11744 Mar 16 22:56	2°♄26'08 -0°59'29		11749 Jun 12 21:13	0°♄	
minimum elong	11744 Mar 16 21:55	2°♄24'29 0°59'26	retrograde	11749 Jun 22 09:37	0°♄33'18	
	11744 Apr 28 02:14	0°♄	desc. node	11749 Jun 28 01:02	0°♄20'59	
morning rise	11744 Apr 30 02:20	1°♄19'55		11749 Jul 01 15:39	30°♄	
	11744 Jun 11 11:10	0°♂	min. Earth dist.	11749 Aug 01 00:00	21°♄08'52	0.67871 AU
	11744 Jul 24 05:55	0°♄	opposition	11749 Aug 02 03:12	20°♄41'55	-1°14'08
	11744 Sep 03 14:29	0°♂	greatest brilliancy	11749 Aug 02 01:20	20°♄43'45	-1.3m
	11744 Oct 13 23:21	0°♄	direct	11749 Sep 11 21:52	11°♄01'12	
asc. node	11744 Nov 06 18:03	17°♄45'17		11749 Nov 17 23:05	0°♄	
	11744 Nov 23 07:11	0°♄		11750 Jan 12 20:58	0°♄	
	11745 Jan 04 13:12	0°♂		11750 Mar 01 13:52	0°♄	
	11745 Feb 24 14:49	0°♄		11750 Apr 14 02:26	0°♂	
retrograde	11745 Apr 08 16:52	11°♄19'26		11750 May 24 19:21	0°♄	
min. Earth dist.	11745 May 08 05:43	5°♄18'21	0.50168 AU	11750 Jun 11 17:08	13°♄41'24	
greatest brilliancy	11745 May 14 22:49	2°♄49'49	-2.1m	asc. node	11750 Jun 28 19:25	26°♄58'29
opposition	11745 May 16 07:43	2°♄19'24	4°58'02		11750 Jul 02 16:07	0°♂
	11745 May 22 20:42	30°♄			11750 Aug 09 14:52	0°♄
direct	11745 Jun 19 14:51	24°♄58'24				
	11745 Jul 19 20:15	0°♄	conjunction	11750 Aug 19 15:38	7°♄57'36	0°35'45
desc. node	11745 Sep 22 13:03	28°♄47'08	minimum elong	11750 Aug 19 12:04	7°♄50'31	0°35'19
	11745 Sep 24 19:48	0°♄		11750 Sep 16 13:42	0°♄	
	11745 Nov 17 02:41	0°♄	max. Earth dist.	11750 Sep 26 13:44	7°♄49'03	2.36829 AU
	11746 Jan 06 03:37	0°♄		11750 Oct 25 09:39	0°♂	
	11746 Feb 22 23:51	0°♄	morning rise	11750 Oct 31 16:27	4°♄45'04	
evening set	11746 Mar 08 20:15	8°♄56'44		11750 Dec 04 21:32	0°♄	
max. Earth dist.	11746 Mar 29 12:11	22°♄31'46	2.59194 AU	11751 Jan 16 18:01	0°♄	
	11746 Apr 09 16:21	0°♄		11751 Mar 03 17:25	0°♄	
				11751 Apr 23 16:36	0°♄	
conjunction	11746 Apr 24 00:12	9°♄42'48 -1°09'04	desc. node	11751 May 15 21:51	11°♄30'14	
minimum elong	11746 Apr 24 00:29	9°♄43'16 1°09'31		11751 Jul 02 21:39	0°♄	
	11746 May 23 05:11	0°♂	retrograde	11751 Jul 26 22:11	3°♄08'05	
morning rise	11746 Jun 12 11:11	14°♂27'16		11751 Aug 18 05:41	30°♄	
	11746 Jul 03 18:25	0°♄	opposition	11751 Sep 04 20:52	23°♄49'25	-3°30'56
	11746 Aug 12 17:02	0°♂	greatest brilliancy	11751 Sep 05 03:25	23°♄43'00	-1.3m
	11746 Sep 20 14:32	0°♄	min. Earth dist.	11751 Sep 07 13:37	22°♄46'03	0.67177 AU
asc. node	11746 Sep 24 09:20	2°♄56'25	direct	11751 Oct 16 12:44	13°♄47'23	
	11746 Oct 29 05:55	0°♄		11751 Dec 14 21:42	0°♄	
	11746 Dec 07 16:22	0°♂		11752 Feb 07 07:10	0°♄	
	11747 Jan 18 10:33	0°♄		11752 Mar 23 10:43	0°♂	
	11747 Mar 06 20:41	0°♄		11752 May 03 13:10	0°♄	
retrograde	11747 May 19 14:15	25°♄35'57	asc. node	11752 May 15 19:30	9°♄19'23	
min. Earth dist.	11747 Jun 23 21:06	17°♄34'03	0.61956 AU	11752 Jun 11 11:02	0°♂	
opposition	11747 Jun 28 18:40	15°♄38'05	1°38'44	greatest brilliancy	11752 Jun 16 13:47	4°♂01'03 1.2m

















































































































	11752 Jul 19 10:22	0°♎		morning rise	11757 Mar 13 01:41	13°♎29'04	
evening set	11752 Aug 25 06:15	29°♎00'54			11757 Apr 08 04:35	0°♎	
	11752 Aug 26 12:33	0°♏			11757 May 25 14:16	0°♏	
	11752 Oct 04 15:06	0°♎			11757 Jul 11 22:58	0°♎	
					11757 Aug 28 17:17	0°♏	
conjunction	11752 Oct 31 01:35	19°♎36'02	1°04'40		11757 Oct 17 16:04	0°♎	
minimum elong	11752 Oct 31 02:39	19°♎37'57	1°05'13		11757 Dec 26 14:47	0°♎	
	11752 Nov 14 10:31	0°♎		asc. node	11758 Jan 06 12:38	1°♎14'03	
max. Earth dist.	11752 Dec 11 09:42	19°♎01'08	2.50554 AU	retrograde	11758 Jan 09 20:47	1°♎18'31	
morning rise	11752 Dec 27 13:39	0°♏07'09			11758 Jan 24 02:44	30°♎0	
	11752 Dec 27 09:27	0°♏		opposition	11758 Feb 08 12:07	26°♎24'37	2°33'04
	11753 Feb 10 16:54	0°♏		greatest brilliancy	11758 Feb 08 11:33	26°♎25'00	-3.1m
	11753 Mar 30 15:09	0°♎		min. Earth dist.	11758 Feb 09 03:09	26°♎14'38	0.36462 AU
desc. node	11753 Apr 01 12:29	1°♎08'40		direct	11758 Mar 10 03:07	21°♎27'49	
	11753 May 21 09:25	0°♎			11758 Apr 16 15:51	0°♎	
	11753 Jul 24 07:09	0°♏			11758 Jun 11 07:57	0°♏	
retrograde	11753 Sep 03 03:53	8°♏10'22			11758 Jul 28 10:44	0°♎	
opposition	11753 Oct 10 23:21	29°♎49'20	-5°01'16		11758 Sep 12 18:34	0°♎	
	11753 Oct 10 12:04	30°♎			11758 Oct 29 15:15	0°♏	
greatest brilliancy	11753 Oct 12 02:00	29°♎24'06	-1.6m	desc. node	11758 Nov 21 17:34	14°♏37'57	
min. Earth dist.	11753 Oct 17 11:32	27°♎21'46	0.59800 AU		11758 Dec 16 02:30	0°♏	
direct	11753 Nov 20 18:12	20°♎01'14		evening set	11759 Jan 19 02:29	21°♏24'11	
	11754 Jan 02 13:17	0°♏			11759 Feb 01 17:33	0°♎	
	11754 Feb 26 12:19	0°♎		max. Earth dist.	11759 Feb 25 01:39	14°♎47'03	2.67816 AU
asc. node	11754 Apr 03 00:35	24°♎17'00					
	11754 Apr 10 21:51	0°♏		conjunction	11759 Mar 04 07:04	19°♎23'04	-0°49'28
	11754 May 20 16:43	0°♎		minimum elong	11759 Mar 04 05:58	19°♎21'20	0°49'13
	11754 Jun 28 04:52	0°♎			11759 Mar 20 21:26	0°♎	
	11754 Aug 05 19:59	0°♏		morning rise	11759 Apr 16 17:25	17°♎20'18	
	11754 Sep 14 13:49	0°♎			11759 May 06 01:43	0°♏	
	11754 Oct 26 01:37	0°♎			11759 Jun 19 23:39	0°♎	
evening set	11754 Oct 28 20:43	1°♎58'15			11759 Aug 02 13:16	0°♏	
	11754 Dec 08 14:00	0°♏			11759 Sep 13 21:48	0°♎	
					11759 Oct 25 12:33	0°♎	
conjunction	11754 Dec 21 01:06	8°♏20'55	0°30'53	asc. node	11759 Nov 24 11:05	21°♎25'28	
minimum elong	11754 Dec 21 02:18	8°♏22'55	0°31'39		11759 Dec 06 17:39	0°♏	
max. Earth dist.	11755 Jan 11 01:53	22°♏13'26	2.61689 AU		11760 Jan 22 20:18	0°♎	
	11755 Jan 23 00:36	0°♏		retrograde	11760 Mar 19 23:16	18°♎51'09	
morning rise	11755 Feb 06 21:44	9°♏35'07		min. Earth dist.	11760 Apr 16 04:23	13°♎45'01	0.44675 AU
desc. node	11755 Feb 17 02:05	16°♏05'18		greatest brilliancy	11760 Apr 22 20:09	11°♎28'28	-2.4m
	11755 Mar 11 02:25	0°♎		opposition	11760 Apr 24 13:26	10°♎52'54	6°00'47
	11755 Apr 28 15:02	0°♎		direct	11760 May 26 19:39	4°♎24'39	
	11755 Jun 18 02:48	0°♏			11760 Aug 12 07:01	0°♎	
	11755 Aug 12 14:11	0°♎			11760 Oct 05 14:10	0°♏	
retrograde	11755 Oct 25 12:10	22°♎44'33		desc. node	11760 Oct 08 23:49	1°♏58'26	
opposition	11755 Nov 28 04:54	16°♎06'12	-4°29'26		11760 Nov 25 06:00	0°♏	
greatest brilliancy	11755 Nov 29 18:19	15°♎34'34	-2.3m		11761 Jan 13 07:12	0°♎	
min. Earth dist.	11755 Dec 06 23:57	13°♎08'38	0.46723 AU	evening set	11761 Feb 22 13:55	25°♎21'48	
direct	11756 Jan 04 03:15	7°♎57'39			11761 Mar 01 19:33	0°♎	
asc. node	11756 Feb 19 08:14	20°♎40'34		max. Earth dist.	11761 Mar 19 06:28	11°♎18'25	2.62648 AU
	11756 Mar 07 18:24	0°♏					
	11756 Apr 22 12:45	0°♎		conjunction	11761 Apr 08 11:31	24°♎37'02	-1°08'46
	11756 Jun 02 14:11	0°♎		minimum elong	11761 Apr 08 11:05	24°♎36'19	1°09'02
	11756 Jul 12 23:03	0°♏			11761 Apr 16 13:03	0°♏	
	11756 Aug 23 04:48	0°♎		morning rise	11761 May 25 02:45	26°♏20'32	
	11756 Oct 05 00:36	0°♎			11761 May 30 08:30	0°♎	
	11756 Nov 18 14:54	0°♏			11761 Jul 11 07:23	0°♏	
evening set	11756 Dec 12 14:15	15°♏42'15			11761 Aug 20 16:36	0°♎	
desc. node	11757 Jan 03 18:24	0°♏01'57			11761 Sep 29 00:12	0°♎	
	11757 Jan 03 17:12	0°♏		asc. node	11761 Oct 11 05:05	9°♎23'24	
					11761 Nov 07 01:20	0°♏	
conjunction	11757 Jan 28 03:30	15°♏37'35	-0°13'05		11761 Dec 17 01:11	0°♎	
minimum elong	11757 Jan 28 03:06	15°♏36'56	0°12'28		11762 Jan 29 03:01	0°♎	
behind sun begin	11757 Jan 27 15:16	15°♏18'06			11762 Mar 23 18:05	0°♏	
behind sun end	11757 Jan 28 14:56	15°♏55'47		retrograde	11762 May 04 20:19	10°♏14'10	
max. Earth dist.	11757 Feb 02 17:00	19°♏10'02	2.67518 AU	min. Earth dist.	11762 Jun 07 01:14	2°♏54'10	0.57960 AU
	11757 Feb 19 18:30	0°♎		opposition	11762 Jun 13 08:33	0°♏26'55	2°55'02

greatest brilliancy	11762 Jun 12 17:23	0° Z 41'42	-1.7m	evening set	11767 Jul 26 14:48	28° Q 48'15	
	11762 Jun 14 12:19	30° R x			11767 Jul 28 02:56	0° M	
direct	11762 Jul 20 09:21	22° x 03'37			11767 Sep 04 02:37	0° L	
desc. node	11762 Aug 27 07:45	29° x 21'44					
	11762 Aug 29 04:04	0° Z		conjunction	11767 Oct 06 04:44	24° L 47'51	1°04'57
	11762 Nov 01 18:13	0° \approx		minimum elong	11767 Oct 06 03:20	24° L 45'13	1°05'12
	11762 Dec 24 11:54	0° H			11767 Oct 13 01:19	0° M	
	11763 Feb 11 06:10	0° Y			11767 Nov 22 16:23	0° x	
	11763 Mar 29 02:47	0° B		max. Earth dist.	11767 Nov 25 10:15	1° x 58'25	2.45059 AU
evening set	11763 Apr 01 20:29	2° B 31'23		morning rise	11767 Dec 08 20:52	11° x 32'10	
max. Earth dist.	11763 Apr 17 09:36	13° B 09'03	2.52368 AU		11768 Jan 04 12:19	0° Z	
	11763 May 11 10:24	0° II			11768 Feb 18 22:19	0° \approx	
					11768 Apr 07 13:55	0° H	
conjunction	11763 May 21 14:29	7° II 17'06	-0°57'36	desc. node	11768 Apr 18 05:49	6° H 13'45	
minimum elong	11763 May 21 16:11	7° II 20'09	0°58'17		11768 Jun 01 05:08	0° Y	
	11763 Jun 21 13:33	0° G		retrograde	11768 Aug 17 22:32	24° Y 07'10	
morning rise	11763 Jul 17 08:54	19° G 30'12		opposition	11768 Sep 25 18:41	15° Y 19'45	-4°33'50
	11763 Jul 31 00:41	0° Q		greatest brilliancy	11768 Sep 26 12:39	15° Y 02'26	-1.4m
asc. node	11763 Aug 28 19:45	22° Q 25'17		min. Earth dist.	11768 Sep 30 19:42	13° Y 23'19	0.63489 AU
	11763 Sep 07 11:37	0° M		direct	11768 Nov 06 04:05	5° Y 20'10	
	11763 Oct 15 17:38	0° L			11769 Jan 19 08:17	0° B	
	11763 Nov 23 17:16	0° M			11769 Mar 08 21:42	0° II	
	11764 Jan 03 13:03	0° x		asc. node	11769 Apr 19 15:27	29° II 44'40	
	11764 Feb 16 20:18	0° Z			11769 Apr 19 23:42	0° G	
	11764 Apr 09 05:09	0° \approx			11769 May 29 06:35	0° Q	
retrograde	11764 Jun 09 03:57	17° \approx 43'47			11769 Jul 06 11:26	0° M	
desc. node	11764 Jul 14 13:13	9° \approx 51'48			11769 Aug 13 19:25	0° L	
min. Earth dist.	11764 Jul 17 06:11	8° \approx 47'54	0.66334 AU		11769 Sep 22 05:14	0° M	
opposition	11764 Jul 19 20:46	7° \approx 45'48	-0°11'37	evening set	11769 Oct 06 13:35	10° M 37'27	
greatest brilliancy	11764 Jul 19 20:18	7° \approx 46'16	-1.4m		11769 Nov 02 08:45	0° x	
	11764 Aug 12 15:41	30° R Z					
direct	11764 Aug 28 21:28	28° Z 20'20		conjunction	11769 Dec 03 06:06	21° x 35'31	0°46'57
	11764 Sep 15 03:01	0° \approx		minimum elong	11769 Dec 03 07:50	21° x 38'30	0°47'41
	11764 Nov 29 18:44	0° H			11769 Dec 15 13:56	0° Z	
	11765 Jan 21 05:06	0° Y		max. Earth dist.	11769 Dec 31 11:54	10° Z 41'33	2.57913 AU
	11765 Mar 09 01:54	0° B		morning rise	11770 Jan 22 23:47	25° Z 31'06	
	11765 Apr 21 10:07	0° II			11770 Jan 29 21:14	0° \approx	
evening set	11765 May 18 20:13	20° II 00'42		desc. node	11770 Mar 05 18:24	22° \approx 15'44	
	11765 Jun 01 04:05	0° G			11770 Mar 18 03:23	0° H	
max. Earth dist.	11765 Jun 09 17:05	6° G 28'49	2.38910 AU		11770 May 06 12:01	0° Y	
	11765 Jul 10 03:27	0° Q			11770 Jun 28 12:51	0° B	
asc. node	11765 Jul 15 11:41	4° Q 11'06			11770 Sep 06 07:34	0° II	
				retrograde	11770 Oct 02 17:29	3° II 45'29	
conjunction	11765 Jul 20 08:18	8° Q 00'08	0°03'33		11770 Oct 27 07:54	30° R B	
minimum elong	11765 Jul 20 07:58	7° Q 59'29	0°02'52	opposition	11770 Nov 07 08:06	26° B 19'52	-5°08'01
behind sun begin	11765 Jul 19 03:18	7° Q 03'08		greatest brilliancy	11770 Nov 08 21:56	25° B 45'53	-2.0m
behind sun end	11765 Jul 21 12:38	8° Q 55'52		min. Earth dist.	11770 Nov 15 17:33	23° B 19'31	0.52313 AU
	11765 Aug 17 04:21	0° M		direct	11770 Dec 16 07:11	17° B 16'20	
	11765 Sep 24 03:47	0° L			11771 Feb 01 13:45	0° II	
morning rise	11765 Oct 01 18:36	5° L 57'41		asc. node	11771 Mar 07 20:59	19° II 13'51	
	11765 Nov 01 22:56	0° M			11771 Mar 24 07:23	0° G	
	11765 Dec 12 09:55	0° x			11771 May 05 03:16	0° Q	
	11766 Jan 24 08:49	0° Z			11771 Jun 13 16:27	0° M	
	11766 Mar 11 23:49	0° \approx			11771 Jul 23 02:18	0° L	
	11766 May 04 21:54	0° H			11771 Sep 01 13:19	0° M	
desc. node	11766 Jun 01 13:15	11° H 58'16			11771 Oct 13 17:13	0° x	
retrograde	11766 Jul 13 05:18	20° H 38'19			11771 Nov 26 18:43	0° Z	
opposition	11766 Aug 22 15:13	11° H 04'14	-2°42'26	evening set	11771 Nov 27 05:06	0° Z 17'19	
greatest brilliancy	11766 Aug 22 16:41	11° H 02'47	-1.3m		11772 Jan 11 12:52	0° \approx	
min. Earth dist.	11766 Aug 23 19:55	10° H 35'58	0.68265 AU				
direct	11766 Oct 03 03:23	1° H 07'16		conjunction	11772 Jan 14 17:29	2° \approx 03'36	0°03'40
	11766 Dec 27 18:04	0° Y		minimum elong	11772 Jan 14 17:39	2° \approx 03'52	0°04'23
	11767 Feb 16 05:37	0° B		behind sun begin	11772 Jan 13 22:52	1° \approx 33'36	
	11767 Apr 01 12:12	0° II		behind sun end	11772 Jan 15 12:26	2° \approx 34'07	
	11767 May 12 08:47	0° G		desc. node	11772 Jan 21 09:46	6° \approx 21'26	
asc. node	11767 Jun 02 11:13	16° G 09'40		max. Earth dist.	11772 Jan 26 00:01	9° \approx 18'15	2.65874 AU
	11767 Jun 20 04:56	0° Q			11772 Feb 27 12:19	0° H	

morning rise	11772 Feb 28 17:45	0° H 46'33	direct	11777 Jul 01 12:08	5° Z 41'36	
	11772 Apr 15 05:23	0° Y	desc. node	11777 Sep 12 18:04	28° Z 08'43	
	11772 Jun 02 11:36	0° B		11777 Sep 16 13:14	0° Z	
	11772 Jul 21 16:43	0° II		11777 Nov 11 07:31	0° \approx	
	11772 Sep 11 18:40	0° G		11778 Jan 01 03:42	0° H	
	11772 Nov 25 07:44	0° Ω		11778 Feb 18 07:10	0° Y	
retrograde	11772 Dec 07 19:50	0° Ω 57'24	evening set	11778 Mar 17 05:44	17° Y 28'29	
	11772 Dec 20 04:31	30° R G	max. Earth dist.	11778 Apr 04 19:23	29° Y 49'53	2.56962 AU
opposition	11773 Jan 07 09:00	25° G 41'58 -1°09'23		11778 Apr 05 01:24	0° B	
greatest brilliancy	11773 Jan 07 17:13	25° G 36'05 -2.9m				
min. Earth dist.	11773 Jan 13 06:48	24° G 01'06 0.38823 AU	conjunction	11778 May 03 10:04	19° B 23'59 -1°06'50	
asc. node	11773 Jan 23 02:53	21° G 32'59	minimum elong	11778 May 03 10:49	19° B 25'18 1°07'23	
direct	11773 Feb 08 11:33	19° G 43'06		11778 May 18 12:41	0° II	
	11773 Mar 21 07:27	0° Ω	morning rise	11778 Jun 24 00:45	26° II 22'34	
	11773 May 12 08:23	0° M		11778 Jun 28 22:26	0° G	
	11773 Jun 25 14:37	0° $\underline{\text{A}}$		11778 Aug 07 16:42	0° Ω	
	11773 Aug 08 03:49	0° M	asc. node	11778 Sep 14 15:29	29° Ω 23'58	
	11773 Sep 21 14:27	0° Z		11778 Sep 15 09:57	0° M	
	11773 Nov 06 07:50	0° Z		11778 Oct 23 20:59	0° $\underline{\text{A}}$	
desc. node	11773 Dec 08 07:07	20° Z 32'51		11778 Dec 02 01:46	0° M	
	11773 Dec 23 03:06	0° \approx		11779 Jan 12 08:17	0° Z	
evening set	11774 Jan 05 00:06	8° \approx 10'35		11779 Feb 27 02:37	0° Z	
	11774 Feb 08 10:52	0° H		11779 Apr 30 21:14	0° \approx	
max. Earth dist.	11774 Feb 16 08:59	5° H 01'14 2.68355 AU	retrograde	11779 May 27 14:49	4° \approx 14'09	
				11779 Jun 21 16:25	30° R Z	
conjunction	11774 Feb 18 17:48	6° H 31'18 -0°36'53	min. Earth dist.	11779 Jul 02 23:29	25° Z 51'18 0.63803 AU	
minimum elong	11774 Feb 18 16:50	6° H 29'46 0°36'28	opposition	11779 Jul 07 01:16	24° Z 14'29 0°56'31	
	11774 Mar 27 15:23	0° Y	greatest brilliancy	11779 Jul 06 22:07	24° Z 17'36 -1.5m	
morning rise	11774 Apr 03 00:05	4° Y 04'11	desc. node	11779 Aug 01 01:19	16° Z 33'54	
	11774 May 13 04:33	0° B	direct	11779 Aug 15 02:23	15° Z 08'48	
	11774 Jun 27 19:57	0° II		11779 Oct 12 01:57	0° \approx	
	11774 Aug 11 12:27	0° G		11779 Dec 10 11:32	0° H	
	11774 Sep 24 11:03	0° Ω		11780 Jan 29 23:49	0° Y	
	11774 Nov 07 11:29	0° M		11780 Mar 16 08:25	0° B	
asc. node	11774 Dec 11 05:22	21° M 51'33	evening set	11780 Apr 28 06:19	29° B 43'45	
	11774 Dec 24 22:26	0° $\underline{\text{A}}$		11780 Apr 28 15:25	0° II	
retrograde	11775 Feb 25 14:35	21° $\underline{\text{A}}$ 42'51	max. Earth dist.	11780 May 12 04:10	9° II 45'37 2.44225 AU	
min. Earth dist.	11775 Mar 23 07:59	17° $\underline{\text{A}}$ 20'38 0.39674 AU		11780 Jun 08 12:24	0° G	
greatest brilliancy	11775 Mar 28 20:20	15° $\underline{\text{A}}$ 40'51 -2.8m				
opposition	11775 Mar 30 09:09	15° $\underline{\text{A}}$ 12'46 6°11'40	conjunction	11780 Jun 23 13:20	11° G 24'03 -0°26'48	
direct	11775 Apr 29 16:09	9° $\underline{\text{A}}$ 43'14	minimum elong	11780 Jun 23 15:18	11° G 27'50 0°27'33	
	11775 Jul 03 19:28	0° M		11780 Jul 17 15:40	0° Ω	
	11775 Aug 26 20:44	0° Z	asc. node	11780 Aug 01 07:47	11° Ω 28'35	
	11775 Oct 15 20:49	0° Z		11780 Aug 24 19:40	0° M	
desc. node	11775 Oct 26 10:25	6° Z 25'47	morning rise	11780 Aug 30 10:50	4° M 27'09	
	11775 Dec 03 21:48	0° \approx		11780 Oct 01 20:31	0° $\underline{\text{A}}$	
	11776 Jan 21 06:22	0° H		11780 Nov 09 15:39	0° M	
evening set	11776 Feb 09 16:59	12° H 14'02		11780 Dec 20 03:13	0° Z	
	11776 Mar 08 13:42	0° Y		11781 Feb 01 08:09	0° Z	
max. Earth dist.	11776 Mar 09 22:05	0° Y 52'06 2.65298 AU		11781 Mar 21 02:33	0° \approx	
				11781 May 20 21:00	0° H	
conjunction	11776 Mar 24 22:44	10° Y 35'44 -1°04'00	desc. node	11781 Jun 18 03:27	7° H 24'30	
minimum elong	11776 Mar 24 21:52	10° Y 34'19 1°04'03	retrograde	11781 Jun 29 22:33	8° H 14'30	
	11776 Apr 23 10:03	0° B		11781 Aug 05 18:03	30° R \approx	
morning rise	11776 May 08 18:39	10° B 18'01	opposition	11781 Aug 09 15:04	28° \approx 28'23 -1°48'27	
	11776 Jun 06 13:55	0° II	min. Earth dist.	11781 Aug 09 08:00	28° \approx 35'22 0.68302 AU	
	11776 Jul 19 01:04	0° G	greatest brilliancy	11781 Aug 09 13:40	28° \approx 29'45 -1.3m	
	11776 Aug 29 00:21	0° Ω	direct	11781 Sep 19 17:35	18° \approx 40'43	
	11776 Oct 07 22:41	0° M		11781 Nov 07 21:43	0° H	
asc. node	11776 Oct 27 23:33	15° M 09'59		11782 Jan 06 20:48	0° Y	
	11776 Nov 16 16:14	0° $\underline{\text{A}}$		11782 Feb 24 09:31	0° B	
	11776 Dec 27 18:27	0° M		11782 Apr 09 04:14	0° II	
	11777 Feb 12 00:14	0° Z		11782 May 19 22:43	0° G	
retrograde	11777 Apr 18 16:40	22° Z 49'40	asc. node	11782 Jun 19 03:08	23° G 12'38	
min. Earth dist.	11777 May 19 13:37	16° Z 18'57 0.53121 AU	evening set	11782 Jun 26 20:49	29° G 15'38	
greatest brilliancy	11777 May 26 00:46	13° Z 52'20 -2.0m		11782 Jun 27 19:27	0° Ω	
opposition	11777 May 27 03:00	13° Z 27'30 4°14'22		11782 Aug 04 18:00	0° M	

conjunction	11782 Sep 06 06:26	25° \mathbb{M} 43'57	0°50'37		11787 Aug 03 07:19	0° \mathbb{I}	
minimum elong	11782 Sep 06 02:32	25° \mathbb{M} 36'17	0°50'26		11787 Oct 07 21:55	0° \mathfrak{C}	
	11782 Sep 11 16:49	0° \mathfrak{L}		retrograde	11787 Nov 09 04:04	5° \mathfrak{C} 35'13	
	11782 Oct 20 12:58	0° \mathbb{M}			11787 Dec 09 23:31	30° \mathbb{R} \mathbb{I}	
max. Earth dist.	11782 Oct 29 07:46	6° \mathbb{M} 37'45	2.39400 AU	opposition	11787 Dec 11 17:36	29° \mathbb{I} 26'24	-3°40'19
morning rise	11782 Nov 15 14:03	19° \mathbb{M} 27'59		greatest brilliancy	11787 Dec 13 00:31	29° \mathbb{I} 01'27	-2.5m
	11782 Nov 30 00:52	0° \mathfrak{A}		min. Earth dist.	11787 Dec 20 02:29	26° \mathbb{I} 45'29	0.43632 AU
	11783 Jan 11 19:20	0° \mathfrak{Z}		direct	11788 Jan 16 03:02	21° \mathbb{I} 59'38	
	11783 Feb 26 11:09	0° \approx		asc. node	11788 Feb 09 17:01	26° \mathbb{I} 02'25	
	11783 Apr 17 06:43	0° \mathfrak{H}			11788 Feb 20 14:11	0° \mathfrak{C}	
desc. node	11783 May 05 22:37	10° \mathfrak{H} 15'15			11788 Apr 13 17:14	0° \mathcal{O}	
	11783 Jun 16 21:33	0° \mathcal{Y}			11788 May 26 12:01	0° \mathbb{M}	
retrograde	11783 Aug 04 00:07	10° \mathcal{Y} 55'49			11788 Jul 06 18:01	0° \mathfrak{L}	
opposition	11783 Sep 12 15:07	1° \mathcal{Y} 47'07	-3°56'24		11788 Aug 17 13:45	0° \mathbb{M}	
greatest brilliancy	11783 Sep 13 01:23	1° \mathcal{Y} 37'07	-1.3m		11788 Sep 29 20:04	0° \mathfrak{A}	
min. Earth dist.	11783 Sep 16 04:18	0° \mathcal{Y} 24'11	0.66152 AU		11788 Nov 13 17:45	0° \mathfrak{Z}	
	11783 Sep 17 05:18	30° \mathbb{R} \mathfrak{H}		evening set	11788 Dec 21 07:37	24° \mathfrak{Z} 24'14	
direct	11783 Oct 24 06:48	21° \mathfrak{H} 44'08		desc. node	11788 Dec 24 20:56	26° \mathfrak{Z} 41'19	
	11783 Dec 03 06:26	0° \mathcal{Y}			11788 Dec 30 00:49	0° \approx	
	11784 Jan 31 21:27	0° \mathfrak{B}					
	11784 Mar 17 23:08	0° \mathbb{I}		conjunction	11789 Feb 05 01:37	23° \approx 36'16	-0°22'19
	11784 Apr 28 08:44	0° \mathfrak{C}		minimum elong	11789 Feb 05 00:58	23° \approx 35'13	0°21'46
asc. node	11784 May 06 04:44	5° \mathfrak{C} 55'02		max. Earth dist.	11789 Feb 07 17:29	25° \approx 17'36	2.68052 AU
	11784 Jun 06 09:14	0° \mathcal{O}			11789 Feb 15 03:35	0° \mathfrak{H}	
	11784 Jul 14 10:03	0° \mathbb{M}		morning rise	11789 Mar 20 14:59	21° \mathfrak{H} 13'04	
	11784 Aug 21 13:36	0° \mathfrak{L}			11789 Apr 03 11:04	0° \mathcal{Y}	
evening set	11784 Sep 10 13:25	15° \mathfrak{L} 26'41			11789 May 20 12:27	0° \mathfrak{B}	
	11784 Sep 29 17:49	0° \mathbb{M}			11789 Jul 06 03:40	0° \mathbb{I}	
	11784 Nov 09 15:09	0° \mathfrak{A}			11789 Aug 21 12:27	0° \mathfrak{C}	
					11789 Oct 07 08:14	0° \mathcal{O}	
conjunction	11784 Nov 12 22:45	2° \mathfrak{A} 22'12	0°59'56		11789 Nov 26 21:41	0° \mathbb{M}	
minimum elong	11784 Nov 13 00:25	2° \mathfrak{A} 25'10	1°00'35	asc. node	11789 Dec 27 20:52	14° \mathbb{M} 10'15	
max. Earth dist.	11784 Dec 19 06:09	27° \mathfrak{A} 42'10	2.53374 AU	retrograde	11790 Jan 28 00:35	20° \mathbb{M} 12'45	
	11784 Dec 22 15:04	0° \mathfrak{Z}		min. Earth dist.	11790 Feb 24 11:29	15° \mathbb{M} 46'49	0.36679 AU
morning rise	11785 Jan 06 15:40	10° \mathfrak{Z} 07'43		opposition	11790 Feb 27 07:05	15° \mathbb{M} 01'16	4°28'51
	11785 Feb 05 21:01	0° \approx		greatest brilliancy	11790 Feb 26 17:36	15° \mathbb{M} 10'22	-3.0m
desc. node	11785 Mar 22 13:11	28° \approx 12'48		direct	11790 Mar 28 09:19	10° \mathbb{M} 09'42	
	11785 Mar 25 10:56	0° \mathfrak{H}			11790 May 29 19:07	0° \mathfrak{L}	
	11785 May 15 01:53	0° \mathcal{Y}			11790 Jul 20 13:22	0° \mathbb{M}	
	11785 Jul 11 22:09	0° \mathfrak{B}			11790 Sep 06 13:57	0° \mathfrak{A}	
retrograde	11785 Sep 13 04:01	17° \mathfrak{B} 16'05			11790 Oct 24 07:10	0° \mathfrak{Z}	
opposition	11785 Oct 20 07:08	9° \mathfrak{B} 12'27	-5°10'03	desc. node	11790 Nov 11 22:01	11° \mathfrak{Z} 39'47	
greatest brilliancy	11785 Oct 21 14:29	8° \mathfrak{B} 43'11	-1.7m		11790 Dec 11 05:40	0° \approx	
min. Earth dist.	11785 Oct 27 13:41	6° \mathfrak{B} 29'58	0.57376 AU	evening set	11791 Jan 26 23:30	29° \approx 18'12	
	11785 Nov 21 19:49	30° \mathbb{R} \mathcal{Y}			11791 Jan 28 02:03	0° \mathfrak{H}	
direct	11785 Nov 29 14:18	29° \mathcal{Y} 35'33		max. Earth dist.	11791 Mar 02 03:06	20° \mathfrak{H} 56'10	2.67164 AU
	11785 Dec 07 11:34	0° \mathfrak{B}					
	11786 Feb 18 18:27	0° \mathbb{I}		conjunction	11791 Mar 12 01:06	27° \mathfrak{H} 16'41	-0°55'41
asc. node	11786 Mar 24 11:18	22° \mathbb{I} 04'38		minimum elong	11791 Mar 12 00:02	27° \mathfrak{H} 14'58	0°55'33
	11786 Apr 04 16:22	0° \mathfrak{C}			11791 Mar 16 06:54	0° \mathcal{Y}	
	11786 May 14 23:40	0° \mathcal{O}		morning rise	11791 Apr 24 19:13	25° \mathcal{Y} 40'47	
	11786 Jun 22 18:25	0° \mathbb{M}			11791 May 01 08:24	0° \mathfrak{B}	
	11786 Jul 31 14:20	0° \mathfrak{L}			11791 Jun 14 23:38	0° \mathbb{I}	
	11786 Sep 09 12:25	0° \mathbb{M}			11791 Jul 28 03:08	0° \mathfrak{C}	
	11786 Oct 21 04:23	0° \mathfrak{A}			11791 Sep 07 21:53	0° \mathcal{O}	
evening set	11786 Nov 09 02:46	13° \mathfrak{A} 10'51			11791 Oct 18 18:30	0° \mathbb{M}	
	11786 Dec 03 20:00	0° \mathfrak{Z}		asc. node	11791 Nov 14 19:48	19° \mathbb{M} 54'06	
					11791 Nov 28 17:22	0° \mathfrak{L}	
conjunction	11786 Dec 30 08:32	17° \mathfrak{Z} 37'06	0°20'56		11792 Jan 11 07:18	0° \mathbb{M}	
minimum elong	11786 Dec 30 09:20	17° \mathfrak{Z} 38'26	0°21'42		11792 Mar 12 11:07	0° \mathfrak{A}	
max. Earth dist.	11787 Jan 16 17:55	28° \mathfrak{Z} 57'55	2.63414 AU	retrograde	11792 Mar 31 12:25	2° \mathfrak{A} 32'51	
	11787 Jan 18 08:14	0° \approx			11792 Apr 19 04:22	30° \mathbb{R} \mathbb{M}	
desc. node	11787 Feb 07 02:43	12° \approx 43'21		min. Earth dist.	11792 Apr 28 22:50	26° \mathbb{M} 57'10	0.47705 AU
morning rise	11787 Feb 15 00:15	17° \approx 45'40		greatest brilliancy	11792 May 05 18:31	24° \mathbb{M} 30'41	-2.3m
	11787 Mar 06 07:59	0° \mathfrak{H}		opposition	11792 May 07 08:00	23° \mathbb{M} 56'58	5°28'44
	11787 Apr 23 11:43	0° \mathcal{Y}		direct	11792 Jun 09 17:39	16° \mathbb{M} 58'25	
	11787 Jun 11 23:24	0° \mathfrak{B}			11792 Jul 31 09:09	0° \mathfrak{A}	

	11792 Sep 28 19:23	0°♄		morning rise	11797 Oct 19 01:45	23°♄08'45	
desc. node	11792 Sep 29 04:01	0°♄12'00			11797 Oct 28 01:08	0°♄	
	11792 Nov 19 20:06	0°♄			11797 Dec 07 11:11	0°♄	
	11793 Jan 08 10:34	0°♄			11798 Jan 19 06:39	0°♄	
	11793 Feb 25 03:55	0°♄			11798 Mar 06 09:35	0°♄	
evening set	11793 Mar 02 15:35	3°♄31'41			11798 Apr 27 05:24	0°♄	
max. Earth dist.	11793 Mar 25 00:55	18°♄07'10	2.60838 AU	desc. node	11798 May 22 15:16	12°♄27'18	
	11793 Apr 11 21:53	0°♄		retrograde	11798 Jul 20 23:30	28°♄16'13	
				opposition	11798 Aug 30 04:16	18°♄50'23	-3°11'37
conjunction	11793 Apr 17 03:36	3°♄31'27	-1°09'36	greatest brilliancy	11798 Aug 30 08:22	18°♄46'21	-1.3m
minimum elong	11793 Apr 17 03:32	3°♄31'21	1°09'57	min. Earth dist.	11798 Sep 01 05:18	18°♄02'15	0.67791 AU
	11793 May 25 14:37	0°♄		direct	11798 Oct 10 19:20	8°♄50'01	
morning rise	11793 Jun 04 04:47	6°♄46'19			11798 Dec 19 21:50	0°♄	
	11793 Jul 06 09:07	0°♄			11799 Feb 10 11:35	0°♄	
	11793 Aug 15 12:58	0°♄			11799 Mar 27 07:12	0°♄	
	11793 Sep 23 15:09	0°♄			11799 May 07 08:21	0°♄	
asc. node	11793 Oct 01 11:42	6°♄04'48		asc. node	11799 May 23 19:37	12°♄33'21	
	11793 Nov 01 10:16	0°♄			11799 Jun 15 06:06	0°♄	
	11793 Dec 11 00:40	0°♄			11799 Jul 23 05:00	0°♄	
	11794 Jan 22 03:55	0°♄		evening set	11799 Aug 12 22:27	16°♄24'29	
	11794 Mar 12 03:53	0°♄			11799 Aug 30 05:38	0°♄	
retrograde	11794 May 13 09:59	19°♄40'17		greatest brilliancy	11799 Sep 03 01:53	3°♄00'05	1.1m
min. Earth dist.	11794 Jun 16 19:04	11°♄56'13	0.60270 AU		11799 Oct 08 05:23	0°♄	
opposition	11794 Jun 22 07:45	9°♄45'58	2°10'13				
greatest brilliancy	11794 Jun 21 21:49	9°♄55'43	-1.6m	conjunction	11799 Oct 21 06:18	9°♄46'24	1°06'16
direct	11794 Jul 30 03:13	1°♄05'42		minimum elong	11799 Oct 21 06:31	9°♄46'48	1°06'41
desc. node	11794 Aug 17 11:35	3°♄00'16			11799 Nov 17 21:30	0°♄	
	11794 Oct 25 14:15	0°♄		max. Earth dist.	11799 Dec 05 14:19	12°♄35'50	2.48140 AU
	11794 Dec 19 01:36	0°♄		morning rise	11799 Dec 20 08:40	22°♄53'18	
	11795 Feb 06 09:11	0°♄			11799 Dec 30 17:24	0°♄	
	11795 Mar 24 10:14	0°♄			11800 Feb 14 00:04	0°♄	
evening set	11795 Apr 11 06:40	12°♄09'07			11800 Apr 03 03:01	0°♄	
max. Earth dist.	11795 Apr 25 11:28	22°♄01'46	2.49571 AU	desc. node	11800 Apr 09 06:20	3°♄40'20	
	11795 May 06 17:54	0°♄			11800 May 25 19:03	0°♄	
					11800 Aug 06 13:59	0°♄	
conjunction	11795 Jun 01 22:46	18°♄58'50	-0°48'51	retrograde	11800 Aug 27 23:12	2°♄30'09	
minimum elong	11795 Jun 02 00:52	19°♄02'42	0°49'36		11800 Sep 17 00:04	30°♄	
	11795 Jun 16 19:10	0°♄		opposition	11800 Oct 05 06:49	23°♄56'43	-4°51'05
	11795 Jul 26 03:30	0°♄		greatest brilliancy	11800 Oct 06 05:41	23°♄34'54	-1.5m
morning rise	11795 Aug 01 08:59	4°♄50'07		min. Earth dist.	11800 Oct 11 03:57	21°♄42'10	0.61562 AU
asc. node	11795 Aug 19 01:44	18°♄39'53		direct	11800 Nov 15 09:35	14°♄02'13	
	11795 Sep 02 11:50	0°♄			11801 Jan 10 22:03	0°♄	
	11795 Oct 10 15:40	0°♄			11801 Mar 03 11:40	0°♄	
	11795 Nov 18 12:47	0°♄		asc. node	11801 Apr 10 23:41	26°♄50'07	
	11795 Dec 29 03:53	0°♄			11801 Apr 15 07:17	0°♄	
	11796 Feb 10 21:23	0°♄			11801 May 24 20:56	0°♄	
	11796 Mar 31 19:32	0°♄			11801 Jul 02 05:39	0°♄	
retrograde	11796 Jun 16 18:25	25°♄37'12			11801 Aug 09 16:58	0°♄	
desc. node	11796 Jul 04 17:00	23°♄30'18			11801 Sep 18 06:04	0°♄	
min. Earth dist.	11796 Jul 25 17:32	16°♄24'54	0.67306 AU	evening set	11801 Oct 20 13:58	23°♄36'53	
opposition	11796 Jul 27 12:12	15°♄42'35	-0°49'01		11801 Oct 29 12:52	0°♄	
greatest brilliancy	11796 Jul 27 10:30	15°♄44'15	-1.3m		11801 Dec 11 20:35	0°♄	
direct	11796 Sep 05 23:16	6°♄08'08					
	11796 Nov 22 09:05	0°♄		conjunction	11801 Dec 14 14:18	1°♄50'59	0°37'53
	11797 Jan 15 17:03	0°♄		minimum elong	11801 Dec 14 15:47	1°♄53'28	0°38'39
	11797 Mar 04 02:45	0°♄		max. Earth dist.	11802 Jan 07 16:10	17°♄53'58	2.60104 AU
	11797 Apr 16 14:54	0°♄			11802 Jan 26 04:24	0°♄	
	11797 May 27 09:31	0°♄		morning rise	11802 Feb 01 14:45	4°♄09'39	
evening set	11797 May 31 19:17	3°♄20'19		desc. node	11802 Feb 24 19:46	19°♄00'10	
asc. node	11797 Jul 05 20:12	0°♄23'49			11802 Mar 14 06:42	0°♄	
	11797 Jul 05 08:02	0°♄			11802 May 02 02:16	0°♄	
max. Earth dist.	11797 Jul 12 20:23	5°♄53'47	2.36680 AU		11802 Jun 22 11:22	0°♄	
					11802 Aug 20 10:49	0°♄	
conjunction	11797 Aug 06 00:19	24°♄59'31	0°22'12	retrograde	11802 Oct 16 02:42	14°♄36'10	
minimum elong	11797 Aug 05 21:59	24°♄54'55	0°21'40	opposition	11802 Nov 19 16:25	7°♄35'26	-4°51'28
	11797 Aug 12 07:53	0°♄		greatest brilliancy	11802 Nov 21 07:14	7°♄01'32	-2.2m
	11797 Sep 19 06:35	0°♄		min. Earth dist.	11802 Nov 28 09:59	4°♄33'12	0.49258 AU

	11802 Dec 15 14:20	30° 			11808 Jan 17 11:44	0° 	
direct	11802 Dec 27 14:52	28°  58'49		evening set	11808 Feb 18 14:31	20°  12'08	
	11803 Jan 08 18:44	0° 			11808 Mar 04 22:28	0° 	
asc. node	11803 Feb 27 07:26	19°  35'00		max. Earth dist.	11808 Mar 16 07:41	7°  20'52	2.63940 AU
	11803 Mar 16 15:47	0° 					
	11803 Apr 29 06:10	0° 		conjunction	11808 Apr 03 03:10	18°  58'49	-1°07'18
	11803 Jun 08 12:25	0° 		minimum elong	11808 Apr 03 02:32	18°  57'47	1°07'28
	11803 Jul 18 09:06	0° 			11808 Apr 19 18:12	0° 	
	11803 Aug 28 04:34	0° 		morning rise	11808 May 18 20:26	19°  41'34	
	11803 Oct 09 15:37	0° 			11808 Jun 02 18:15	0° 	
	11803 Nov 22 22:47	0° 			11808 Jul 14 23:24	0° 	
evening set	11803 Dec 07 17:34	9°  345'40			11808 Aug 24 15:11	0° 	
	11804 Jan 07 20:31	0° 			11808 Oct 03 05:05	0° 	
desc. node	11804 Jan 12 11:31	2°  58'40		asc. node	11808 Oct 19 06:52	12°  17'20	
					11808 Nov 11 12:24	0° 	
conjunction	11804 Jan 24 01:27	10°  24'24	-0°06'18		11808 Dec 21 20:23	0° 	
minimum elong	11804 Jan 24 01:15	10°  24'05	0°05'39		11809 Feb 03 19:40	0° 	
behind sun begin	11804 Jan 23 07:16	9°  55'20			11809 Apr 05 21:53	0° 	
behind sun end	11804 Jan 24 19:14	10°  52'50		retrograde	11809 Apr 29 02:32	3°  29'41	
max. Earth dist.	11804 Feb 01 03:43	15°  34'37	2.66897 AU		11809 May 21 06:04	30°  17'20	
	11804 Feb 23 20:15	0° 		min. Earth dist.	11809 May 31 06:51	26°  30'47	0.55887 AU
morning rise	11804 Mar 08 09:25	8°  34'21		greatest brilliancy	11809 Jun 06 08:34	24°  10'34	-1.8m
	11804 Apr 11 08:58	0° 		opposition	11809 Jun 07 04:14	23°  51'35	3°28'44
	11804 May 29 02:56	0° 		direct	11809 Jul 13 12:18	15°  43'41	
	11804 Jul 16 04:41	0° 		desc. node	11809 Sep 03 22:52	28°  36'27	
	11804 Sep 03 10:45	0° 			11809 Sep 07 06:38	0° 	
	11804 Oct 27 16:49	0° 			11809 Nov 06 02:39	0° 	
retrograde	11804 Dec 27 05:29	17°  054'38			11809 Dec 27 23:46	0° 	
asc. node	11805 Jan 14 13:05	15°  048'51			11810 Feb 14 12:22	0° 	
opposition	11805 Jan 25 22:45	12°  058'09	0°52'51	evening set	11810 Mar 26 23:43	26°  23'02	
greatest brilliancy	11805 Jan 26 00:47	12°  056'46	-3.0m		11810 Apr 01 09:14	0° 	
min. Earth dist.	11805 Jan 29 05:36	12°  04'50	0.37114 AU	max. Earth dist.	11810 Apr 12 17:35	7°  41'07	2.54511 AU
direct	11805 Feb 25 11:42	7°  040'26					
	11805 May 01 04:49	0° 		conjunction	11810 May 14 10:59	29°  44'38	-1°02'25
	11805 Jun 18 10:21	0° 		minimum elong	11810 May 14 12:16	29°  46'55	1°03'03
	11805 Aug 02 14:03	0° 			11810 May 14 19:39	0° 	
	11805 Sep 16 22:01	0° 			11810 Jun 25 02:54	0° 	
	11805 Nov 02 04:36	0° 		morning rise	11810 Jul 07 16:37	9°  24'08	
desc. node	11805 Nov 29 09:15	17°  0321'28			11810 Aug 03 17:54	0° 	
	11805 Dec 19 07:50	0° 		asc. node	11810 Sep 05 22:06	25°  046'06	
evening set	11806 Jan 14 02:57	16°  0318'03			11810 Sep 11 07:53	0° 	
	11806 Feb 04 19:18	0° 			11810 Oct 19 15:51	0° 	
max. Earth dist.	11806 Feb 22 09:39	11°  08'46	2.68171 AU		11810 Nov 27 16:34	0° 	
					11811 Jan 07 14:37	0° 	
conjunction	11806 Feb 27 11:43	14°  022'35	-0°44'33		11811 Feb 21 07:25	0° 	
minimum elong	11806 Feb 27 10:39	14°  020'53	0°44'14		11811 Apr 17 01:56	0° 	
	11806 Mar 23 23:41	0° 		retrograde	11811 Jun 05 10:22	12°  31'57	
morning rise	11806 Apr 11 18:39	12°  04'53		min. Earth dist.	11811 Jul 12 18:48	3°  49'58	0.65319 AU
	11806 May 09 08:17	0° 		opposition	11811 Jul 16 00:46	2°  32'35	0°15'58
	11806 Jun 23 14:04	0° 		greatest brilliancy	11811 Jul 16 00:06	2°  33'14	-1.4m
	11806 Aug 06 15:22	0° 			11811 Jul 22 13:34	30°  17'20	
	11806 Sep 18 14:59	0° 		desc. node	11811 Jul 23 05:16	29°  0345'20	
	11806 Oct 31 02:27	0° 		direct	11811 Aug 24 15:14	23°  0315'14	
asc. node	11806 Dec 02 12:42	22°  028'24			11811 Sep 30 09:49	0° 	
	11806 Dec 13 19:22	0° 			11811 Dec 05 04:48	0° 	
	11807 Feb 05 02:02	0° 			11812 Jan 25 19:25	0° 	
retrograde	11807 Mar 12 06:46	8°  05'13			11812 Mar 12 12:18	0° 	
min. Earth dist.	11807 Apr 07 15:54	3°  021'45	0.42299 AU		11812 Apr 24 21:12	0° 	
greatest brilliancy	11807 Apr 13 23:45	1° 018'12	-2.6m	evening set	11812 May 10 13:03	11° 018'39	
opposition	11807 Apr 15 17:24	0° 0143'58	6°15'50	max. Earth dist.	11812 May 26 20:25	23° 020'39	2.41200 AU
	11807 Apr 17 23:41	30° 0143'58			11812 Jun 04 17:38	0°	
direct	11807 May 17 01:17	24° 042'06					
	11807 Jun 16 09:15	0°		conjunction	11812 Jul 09 02:57	26° 021'00	-0°10'20
	11807 Aug 19 18:58	0°		minimum elong	11812 Jul 09 03:56	26° 022'55	0°11'04
	11807 Oct 10 20:49	0°		behind sun begin	11812 Jul 08 07:23	25° 042'59	
desc. node	11807 Oct 17 14:32	4° 0300'19		behind sun end	11812 Jul 10 00:29	27° 0402'53	
	11807 Nov 29 18:03	0° 0300'19			11812 Jul 13 19:23	0° 0300'19	

asc. node	11812 Jul 23 13:17	7°♊37'41	opposition	11817 Oct 31 05:28	19°♏08'08	-5°11'48
	11812 Aug 20 21:52	0°♍	greatest brilliancy	11817 Nov 01 16:55	18°♏35'39	-1.9m
morning rise	11812 Sep 18 15:07	22°♍42'20	min. Earth dist.	11817 Nov 08 04:01	16°♏13'59	0.54672 AU
	11812 Sep 27 21:46	0°♌	direct	11817 Dec 09 20:46	9°♏47'12	
	11812 Nov 05 16:06	0°♍		11818 Feb 10 09:03	0°♐	
	11812 Dec 16 01:52	0°♎	asc. node	11818 Mar 15 20:46	20°♐26'51	
	11813 Jan 28 01:12	0°♏		11818 Mar 29 21:20	0°♑	
	11813 Mar 15 23:26	0°♐		11818 May 09 23:21	0°♒	
	11813 May 10 17:21	0°♑		11818 Jun 18 03:14	0°♓	
desc. node	11813 Jun 09 06:34	11°♑13'13		11818 Jul 27 05:43	0°♌	
retrograde	11813 Jul 08 11:55	15°♑49'29		11818 Sep 05 09:30	0°♍	
opposition	11813 Aug 18 01:32	6°♑09'44	-2°20'49	11818 Oct 17 06:22	0°♎	
greatest brilliancy	11813 Aug 18 01:27	6°♑09'48	-1.3m	evening set	11818 Nov 20 15:11	23°♎38'21
min. Earth dist.	11813 Aug 18 14:32	5°♑56'53	0.68411 AU		11818 Nov 30 01:59	0°♏
	11813 Sep 04 00:53	30°♑				
direct	11813 Sep 28 09:51	26°♑16'20	conjunction	11819 Jan 09 06:06	26°♑29'09	0°10'50
	11813 Oct 24 19:17	0°♑	minimum elong	11819 Jan 09 06:31	26°♑29'49	0°11'34
	11814 Jan 01 10:32	0°♒	behind sun begin	11819 Jan 08 16:47	26°♑07'32	
	11814 Feb 20 02:10	0°♓	behind sun end	11819 Jan 09 20:15	26°♑52'06	
	11814 Apr 05 04:47	0°♐		11819 Jan 14 16:12	0°♑	
	11814 May 16 01:35	0°♑	max. Earth dist.	11819 Jan 23 05:56	5°♑31'58	2.64875 AU
asc. node	11814 Jun 10 11:26	19°♑29'19	desc. node	11819 Jan 29 03:26	9°♑19'26	
	11814 Jun 23 22:29	0°♒	morning rise	11819 Feb 23 22:03	25°♑45'34	
evening set	11814 Jul 14 06:01	16°♒01'28		11819 Mar 02 14:49	0°♑	
	11814 Jul 31 20:42	0°♓		11819 Apr 19 11:45	0°♒	
	11814 Sep 07 19:33	0°♌		11819 Jun 07 05:09	0°♓	
				11819 Jul 27 12:53	0°♐	
conjunction	11814 Sep 24 12:36	13°♌01'31	1°00'47	11819 Sep 21 00:38	0°♑	
minimum elong	11814 Sep 24 09:51	12°♌56'12	1°00'52	retrograde	11819 Nov 26 04:06	19°♑42'51
	11814 Oct 16 16:09	0°♍	opposition	11819 Dec 27 14:59	14°♑04'43	-2°25'39
max. Earth dist.	11814 Nov 16 14:47	23°♍02'46	2.42504 AU	greatest brilliancy	11819 Dec 28 10:26	13°♑50'00
	11814 Nov 26 04:27	0°♎	min. Earth dist.	11820 Jan 04 00:10	11°♑51'45	0.40776 AU
morning rise	11814 Nov 30 05:48	2°♎55'14	direct	11820 Jan 30 05:17	7°♑26'17	
	11815 Jan 07 22:12	0°♏	asc. node	11820 Feb 01 02:51	7°♑27'50	
	11815 Feb 22 08:33	0°♐		11820 Apr 03 06:36	0°♒	
	11815 Apr 12 08:23	0°♑		11820 May 19 10:40	0°♓	
desc. node	11815 Apr 27 00:10	8°♑23'15		11820 Jul 01 00:46	0°♌	
	11815 Jun 07 17:03	0°♒		11820 Aug 12 15:57	0°♍	
retrograde	11815 Aug 13 08:37	18°♒51'41		11820 Sep 25 11:28	0°♎	
opposition	11815 Sep 21 14:17	9°♒54'18	-4°19'07	11820 Nov 09 18:33	0°♏	
greatest brilliancy	11815 Sep 22 04:46	9°♒40'17	-1.4m	desc. node	11820 Dec 15 23:41	23°♏24'03
min. Earth dist.	11815 Sep 25 23:42	8°♒12'18	0.64816 AU		11820 Dec 26 07:18	0°♐
	11815 Oct 28 15:46	30°♒		evening set	11820 Dec 30 18:53	2°♐51'36
direct	11815 Nov 02 03:41	29°♒52'16			11821 Feb 11 12:17	0°♑
	11815 Nov 06 16:41	0°♒				
	11816 Jan 25 20:15	0°♓	conjunction	11821 Feb 13 21:52	1°♑31'15	-0°31'04
	11816 Mar 13 06:16	0°♐	minimum elong	11821 Feb 13 21:00	1°♑29'53	0°30'37
	11816 Apr 24 01:53	0°♑	max. Earth dist.	11821 Feb 13 17:32	1°♑24'23	2.68321 AU
asc. node	11816 Apr 27 15:05	2°♑39'27	morning rise	11821 Mar 29 05:55	29°♑02'25	
	11816 Jun 02 06:20	0°♒		11821 Mar 30 18:04	0°♒	
	11816 Jul 10 09:10	0°♓		11821 May 16 12:34	0°♓	
	11816 Aug 17 14:32	0°♌		11821 Jul 01 14:12	0°♐	
	11816 Sep 25 20:40	0°♍		11821 Aug 15 23:03	0°♑	
evening set	11816 Sep 26 16:56	0°♍37'57		11821 Sep 29 22:48	0°♒	
	11816 Nov 05 19:55	0°♎		11821 Nov 14 21:25	0°♓	
			asc. node	11821 Dec 19 06:31	20°♓19'37	
conjunction	11816 Nov 25 19:37	14°♎06'53	0°52'58	11822 Jan 08 06:40	0°♌	
minimum elong	11816 Nov 25 21:27	14°♎10'04	0°53'42	retrograde	11822 Feb 14 18:43	8°♌45'15
	11816 Dec 18 21:18	0°♏	min. Earth dist.	11822 Mar 12 17:27	4°♌29'43	0.37978 AU
max. Earth dist.	11816 Dec 27 11:47	5°♏49'14	2.55973 AU	greatest brilliancy	11822 Mar 17 01:43	3°♌15'42
morning rise	11817 Jan 17 03:55	19°♏35'05	opposition	11822 Mar 18 05:58	2°♌55'30	5°44'46
	11817 Feb 02 02:23	0°♐		11822 Mar 29 07:43	30°♒	
desc. node	11817 Mar 13 12:45	25°♐05'18	direct	11822 Apr 16 18:44	27°♓48'25	
	11817 Mar 21 10:15	0°♑		11822 May 05 09:51	0°♌	
	11817 May 10 05:08	0°♒		11822 Jul 12 04:49	0°♍	
	11817 Jul 03 18:38	0°♓		11822 Aug 31 21:41	0°♎	
retrograde	11817 Sep 24 21:51	26°♓51'44		11822 Oct 19 18:07	0°♏	

desc. node	11822 Nov 03 01:36	8°♄50'21		11827 Aug 29 13:27	0°♎	
	11822 Dec 07 06:12	0°♊		11827 Oct 06 15:13	0°♈	
	11823 Jan 24 09:10	0°♋		11827 Nov 14 10:16	0°♎	
evening set	11823 Feb 04 19:50	7°♋11'59		11827 Dec 24 21:31	0°♏	
max. Earth dist.	11823 Mar 08 05:46	27°♋09'47	2.66232 AU	11828 Feb 06 04:59	0°♄	
	11823 Mar 12 15:51	0°♑		11828 Mar 25 13:43	0°♊	
				11828 May 31 20:06	0°♋	
conjunction	11823 Mar 20 22:21	5°♑19'46	-1°00'57	retrograde	11828 Jun 25 07:43	3°♋23'08
minimum elong	11823 Mar 20 21:23	5°♑18'12	1°00'56	desc. node	11828 Jun 25 20:00	3°♋23'02
	11823 Apr 27 15:03	0°♄			11828 Jul 18 04:09	30°♎
morning rise	11823 May 04 04:58	4°♄22'37		min. Earth dist.	11828 Aug 04 02:45	23°♊55'12 0.67990 AU
	11823 Jun 11 00:36	0°♈		opposition	11828 Aug 05 01:20	23°♊32'49 -1°24'38
	11823 Jul 23 19:26	0°♉		greatest brilliancy	11828 Aug 04 23:26	23°♊34'42 -1.3m
	11823 Sep 03 03:26	0°♈		direct	11828 Sep 14 21:16	13°♊50'26
	11823 Oct 13 10:50	0°♎			11828 Nov 14 17:00	0°♋
asc. node	11823 Nov 06 01:41	17°♎41'17			11829 Jan 10 22:34	0°♑
	11823 Nov 22 15:05	0°♈			11829 Feb 28 00:46	0°♄
	11824 Jan 03 11:16	0°♎			11829 Apr 12 18:05	0°♈
	11824 Feb 21 12:49	0°♏			11829 May 23 13:50	0°♉
retrograde	11824 Apr 12 02:57	14°♏54'58		evening set	11829 Jun 15 22:39	17°♉52'44
min. Earth dist.	11824 May 11 21:10	8°♏48'37	0.50743 AU	asc. node	11829 Jun 27 04:03	26°♉36'25
opposition	11824 May 19 21:32	5°♏50'37	4°47'58		11829 Jul 01 12:10	0°♈
greatest brilliancy	11824 May 18 14:14	6°♏19'41	-2.1m		11829 Aug 08 11:27	0°♎
	11824 Jun 07 23:18	30°♎				
direct	11824 Jun 23 10:53	28°♎24'32		conjunction	11829 Aug 24 11:27	12°♎41'25 0°39'36
	11824 Jul 09 18:29	0°♏		minimum elong	11829 Aug 24 07:39	12°♎33'54 0°39'15
desc. node	11824 Sep 20 08:59	29°♏00'47			11829 Sep 15 09:51	0°♈
	11824 Sep 22 06:24	0°♄		max. Earth dist.	11829 Oct 06 00:21	16°♈03'50 2.37230 AU
	11824 Nov 15 04:39	0°♊			11829 Oct 24 04:26	0°♎
	11825 Jan 04 11:33	0°♋		morning rise	11829 Nov 05 02:25	9°♎00'04
	11825 Feb 21 11:23	0°♑			11829 Dec 03 13:59	0°♏
evening set	11825 Mar 11 20:39	11°♑52'14			11830 Jan 15 06:59	0°♄
max. Earth dist.	11825 Apr 01 00:53	25°♑09'48	2.58786 AU		11830 Mar 02 00:41	0°♊
	11825 Apr 08 06:33	0°♄			11830 Apr 21 10:34	0°♋
				desc. node	11830 May 13 16:05	11°♋46'25
conjunction	11825 Apr 27 04:35	12°♄50'00	-1°08'44		11830 Jun 25 19:31	0°♑
minimum elong	11825 Apr 27 04:59	12°♄50'41	1°09'12	retrograde	11830 Jul 29 21:32	5°♑57'43
	11825 May 21 21:18	0°♈			11830 Aug 30 01:13	30°♎
morning rise	11825 Jun 16 01:10	17°♈58'58		opposition	11830 Sep 07 19:31	26°♋40'57 -3°38'38
	11825 Jul 02 11:46	0°♉		greatest brilliancy	11830 Sep 08 02:53	26°♋33'45 -1.3m
	11825 Aug 11 10:50	0°♈		min. Earth dist.	11830 Sep 10 16:56	25°♋33'06 0.67019 AU
	11825 Sep 19 08:02	0°♎		direct	11830 Oct 19 11:39	16°♋38'20
asc. node	11825 Sep 22 17:22	2°♎38'08			11830 Dec 11 09:52	0°♑
	11825 Oct 27 22:09	0°♈			11831 Feb 05 09:53	0°♄
	11825 Dec 06 05:47	0°♎			11831 Mar 22 23:16	0°♈
	11826 Jan 16 17:48	0°♏			11831 May 03 06:08	0°♉
	11826 Mar 04 09:40	0°♄		asc. node	11831 May 15 04:14	9°♉02'07
retrograde	11826 May 22 15:38	28°♄37'53			11831 Jun 11 06:00	0°♈
min. Earth dist.	11826 Jun 27 03:52	20°♄31'12	0.62347 AU		11831 Jul 19 05:53	0°♎
opposition	11826 Jul 01 20:51	18°♄39'34	1°26'43		11831 Aug 26 07:37	0°♈
greatest brilliancy	11826 Jul 01 15:13	18°♄45'08	-1.6m	evening set	11831 Aug 30 22:31	3°♈36'03
desc. node	11826 Aug 08 16:53	9°♄44'33			11831 Oct 04 08:57	0°♎
direct	11826 Aug 09 09:09	9°♄44'23				
	11826 Oct 18 08:37	0°♊		conjunction	11831 Nov 05 02:23	23°♎29'21 1°03'43
	11826 Dec 14 09:10	0°♋		minimum elong	11831 Nov 05 03:38	23°♎31'39 1°04'18
	11827 Feb 02 09:51	0°♑			11831 Nov 14 02:35	0°♏
	11827 Mar 20 16:32	0°♄		max. Earth dist.	11831 Dec 15 08:10	22°♏01'00 2.51107 AU
evening set	11827 Apr 22 04:26	22°♄18'39			11831 Dec 26 23:15	0°♄
	11827 May 03 01:12	0°♈		morning rise	11832 Jan 01 00:39	3°♄26'17
max. Earth dist.	11827 May 05 17:18	1°♈54'28	2.46660 AU		11832 Feb 10 03:42	0°♊
	11827 Jun 13 01:12	0°♉			11832 Mar 28 21:04	0°♋
				desc. node	11832 Mar 30 07:07	0°♋51'52
conjunction	11827 Jun 15 05:11	1°♉37'31	-0°37'22		11832 May 19 03:58	0°♑
minimum elong	11827 Jun 15 07:24	1°♉41'41	0°38'09		11832 Jul 19 10:54	0°♄
	11827 Jul 22 07:27	0°♈		retrograde	11832 Sep 06 12:12	11°♄14'01
asc. node	11827 Aug 10 09:34	14°♈54'41		opposition	11832 Oct 14 04:48	2°♄56'16 -5°03'46
morning rise	11827 Aug 18 18:10	21°♈28'55		greatest brilliancy	11832 Oct 15 08:32	2°♄30'05 -1.6m

min. Earth dist.	11832 Oct 20 20:58	0°♄25'18	0.59370 AU	desc. node	11837 Nov 19 13:23	14°♄17'37	
	11832 Oct 22 00:19	30°♄♂			11837 Dec 14 11:54	0°♄	
direct	11832 Nov 23 22:08	23°♂09'45		evening set	11838 Jan 22 01:29	24°♄15'27	
	11832 Dec 28 12:23	0°♄			11838 Jan 31 04:03	0°♄	
	11833 Feb 24 11:20	0°♄		max. Earth dist.	11838 Feb 27 10:24	17°♄16'04	2.67725 AU
asc. node	11833 Apr 01 10:25	24°♄17'03					
	11833 Apr 09 09:08	0°♄		conjunction	11838 Mar 07 04:44	22°♄12'49	-0°51'23
	11833 May 19 08:33	0°♄		minimum elong	11838 Mar 07 03:38	22°♄11'05	0°51'12
	11833 Jun 26 22:16	0°♄			11838 Mar 19 08:57	0°♂	
	11833 Aug 04 13:22	0°♄		morning rise	11838 Apr 19 16:15	20°♂14'10	
	11833 Sep 13 06:13	0°♄			11838 May 04 14:01	0°♄	
	11833 Oct 24 16:32	0°♄			11838 Jun 18 12:15	0°♄	
evening set	11833 Nov 01 13:16	5°♄32'09			11838 Aug 01 01:23	0°♄	
	11833 Dec 07 03:15	0°♄			11838 Sep 12 08:16	0°♄	
					11838 Oct 23 19:17	0°♄	
conjunction	11833 Dec 24 07:54	11°♄30'38	0°28'08	asc. node	11838 Nov 22 21:09	21°♄41'05	
minimum elong	11833 Dec 24 09:01	11°♄32'29	0°28'55		11838 Dec 04 15:26	0°♄	
max. Earth dist.	11834 Jan 13 13:37	24°♄49'58	2.62039 AU		11839 Jan 19 09:52	0°♄	
	11834 Jan 21 12:09	0°♄		retrograde	11839 Mar 24 17:51	22°♄58'22	
morning rise	11834 Feb 09 22:31	12°♄31'07		min. Earth dist.	11839 Apr 21 03:11	17°♄47'55	0.45234 AU
desc. node	11834 Feb 14 20:27	15°♄39'30		greatest brilliancy	11839 Apr 27 21:42	15°♄27'53	-2.4m
	11834 Mar 09 11:56	0°♄		opposition	11839 Apr 29 14:35	14°♄52'26	5°55'04
	11834 Apr 26 21:07	0°♂		direct	11839 Jun 01 01:47	8°♄18'27	
	11834 Jun 16 00:58	0°♄			11839 Aug 09 24:00	0°♄	
	11834 Aug 09 10:09	0°♄			11839 Oct 04 10:23	0°♄	
retrograde	11834 Oct 29 16:45	26°♄29'01		desc. node	11839 Oct 07 18:56	1°♄55'41	
opposition	11834 Dec 02 04:15	19°♄55'53	-4°18'25		11839 Nov 24 10:27	0°♄	
greatest brilliancy	11834 Dec 03 16:15	19°♄25'36	-2.3m		11840 Jan 12 15:46	0°♄	
min. Earth dist.	11834 Dec 10 21:15	17°♄01'19	0.46132 AU	evening set	11840 Feb 26 13:37	28°♄15'28	
direct	11835 Jan 07 18:58	11°♄54'37			11840 Feb 29 06:52	0°♂	
asc. node	11835 Feb 17 16:52	22°♄09'50		max. Earth dist.	11840 Mar 21 21:17	13°♂59'19	2.62328 AU
	11835 Mar 05 08:35	0°♄					
	11835 Apr 21 12:12	0°♄		conjunction	11840 Apr 11 13:05	27°♂37'28	-1°09'12
	11835 Jun 01 22:31	0°♄		minimum elong	11840 Apr 11 12:46	27°♂36'56	1°09'30
	11835 Jul 12 10:41	0°♄			11840 Apr 15 02:28	0°♄	
	11835 Aug 22 17:26	0°♄		morning rise	11840 May 28 10:13	29°♄36'43	
	11835 Oct 04 13:07	0°♄			11840 May 28 23:32	0°♄	
	11835 Nov 18 02:51	0°♄			11840 Jul 09 23:34	0°♄	
evening set	11835 Dec 16 17:53	18°♄44'05			11840 Aug 19 09:22	0°♄	
desc. node	11836 Jan 02 13:33	29°♄35'52			11840 Sep 27 16:47	0°♄	
	11836 Jan 03 04:34	0°♄		asc. node	11840 Oct 09 13:56	9°♄09'03	
					11840 Nov 05 16:29	0°♄	
conjunction	11836 Feb 01 02:58	18°♄30'06	-0°15'49		11840 Dec 15 12:26	0°♄	
minimum elong	11836 Feb 01 02:28	18°♄29'19	0°15'15		11841 Jan 27 04:00	0°♄	
behind sun begin	11836 Jan 31 21:05	18°♄20'45			11841 Mar 19 17:05	0°♄	
behind sun end	11836 Feb 01 07:52	18°♄37'53		retrograde	11841 May 08 00:39	13°♄26'13	
max. Earth dist.	11836 Feb 06 05:09	21°♄44'23	2.67637 AU	min. Earth dist.	11841 Jun 10 10:32	6°♄01'12	0.58404 AU
	11836 Feb 19 05:24	0°♄		opposition	11841 Jun 16 13:47	3°♄37'33	2°42'59
morning rise	11836 Mar 15 23:09	16°♄18'00		greatest brilliancy	11841 Jun 15 24:00	3°♄51'02	-1.7m
	11836 Apr 06 14:51	0°♂			11841 Jun 26 08:55	30°♄♂	
	11836 May 23 22:57	0°♄		direct	11841 Jul 23 17:57	25°♄10'45	
	11836 Jul 10 03:59	0°♄			11841 Aug 22 20:57	0°♄	
	11836 Aug 26 14:06	0°♄		desc. node	11841 Aug 25 02:49	0°♄40'09	
	11836 Oct 14 14:40	0°♄			11841 Oct 30 08:40	0°♄	
	11836 Dec 13 10:26	0°♄			11841 Dec 22 15:46	0°♄	
asc. node	11837 Jan 04 21:01	5°♄38'15			11842 Feb 09 16:03	0°♂	
retrograde	11837 Jan 14 20:40	6°♄17'45			11842 Mar 27 16:28	0°♄	
opposition	11837 Feb 13 14:44	1°♄22'23	3°03'09	evening set	11842 Apr 05 01:32	5°♄39'22	
min. Earth dist.	11837 Feb 13 11:52	1°♄24'18	0.36408 AU	max. Earth dist.	11842 Apr 20 03:46	16°♄00'23	2.51853 AU
greatest brilliancy	11837 Feb 13 12:07	1°♄24'08	-3.1m		11842 May 10 02:42	0°♄	
	11837 Feb 18 20:55	30°♄♄					
direct	11837 Mar 15 00:42	26°♄28'33		conjunction	11842 May 25 03:35	10°♄46'50	-0°55'38
	11837 Apr 07 10:06	0°♄		minimum elong	11842 May 25 05:22	10°♄50'04	0°56'20
	11837 Jun 08 10:35	0°♄			11842 Jun 20 07:33	0°♄	
	11837 Jul 26 08:41	0°♄		morning rise	11842 Jul 21 13:56	23°♄39'41	
	11837 Sep 10 23:25	0°♄			11842 Jul 29 19:36	0°♄	
	11837 Oct 27 23:06	0°♄		asc. node	11842 Aug 27 03:49	22°♄03'43	

	11842 Sep 06 06:39	0°♎			11848 Mar 07 04:14	0°♊		
	11842 Oct 14 11:58	0°♏		asc. node	11848 Apr 17 23:05	29°♊33'20		
	11842 Nov 22 09:46	0°♎			11848 Apr 18 13:30	0°♎		
	11843 Jan 02 01:54	0°♏			11848 May 27 23:32	0°♏		
	11843 Feb 15 01:17	0°♎			11848 Jul 05 05:35	0°♎		
	11843 Apr 07 06:37	0°♎			11848 Aug 12 13:37	0°♏		
retrograde	11843 Jun 13 02:53	20°♎35'45			11848 Sep 20 22:41	0°♎		
desc. node	11843 Jul 13 09:08	14°♎40'18		evening set	11848 Oct 10 15:19	14°♎33'24		
min. Earth dist.	11843 Jul 21 09:03	11°♎36'19	0.66538 AU		11848 Nov 01 00:49	0°♏		
opposition	11843 Jul 23 19:15	10°♎38'31	-0°22'47					
greatest brilliancy	11843 Jul 23 18:17	10°♎39'28	-1.4m	conjunction	11848 Dec 06 17:58	24°♏56'16	0°44'36	
direct	11843 Sep 01 21:10	1°♎11'09		minimum elong	11848 Dec 06 19:39	24°♏59'09	0°45'22	
	11843 Nov 28 07:14	0°♏			11848 Dec 14 04:16	0°♎		
	11844 Jan 20 10:22	0°♎		max. Earth dist.	11849 Jan 03 00:23	13°♎19'38	2.58352 AU	
	11844 Mar 07 14:09	0°♏		morning rise	11849 Jan 26 02:33	28°♎30'48		
	11844 Apr 20 02:28	0°♊			11849 Jan 28 09:25	0°♎		
evening set	11844 May 22 15:41	23°♊46'18		desc. node	11849 Mar 03 13:57	21°♎52'37		
	11844 May 30 22:57	0°♎			11849 Mar 16 12:45	0°♏		
max. Earth dist.	11844 Jun 15 16:47	11°♎58'03	2.38424 AU		11849 May 04 16:11	0°♎		
	11844 Jul 08 23:38	0°♏			11849 Jun 26 03:04	0°♏		
asc. node	11844 Jul 13 21:23	3°♏50'23			11849 Aug 30 01:37	0°♊		
				retrograde	11849 Oct 06 11:26	7°♊03'44		
conjunction	11844 Jul 24 20:40	12°♏27'55	0°07'57	opposition	11849 Nov 10 20:34	29°♏42'35	-5°04'21	
minimum elong	11844 Jul 24 19:56	12°♏26'27	0°07'18		11849 Nov 10 00:59	30°♏		
behind sun begin	11844 Jul 23 17:23	11°♏34'09		greatest brilliancy	11849 Nov 12 10:43	29°♏08'22	-2.0m	
behind sun end	11844 Jul 25 22:28	13°♏18'45		min. Earth dist.	11849 Nov 19 07:14	26°♏41'32	0.51745 AU	
	11844 Aug 16 00:47	0°♎		direct	11849 Dec 19 14:59	20°♏43'01		
	11844 Sep 22 23:33	0°♏			11850 Jan 28 03:00	0°♊		
morning rise	11844 Oct 06 14:35	10°♏39'24		asc. node	11850 Mar 06 06:54	19°♊44'26		
	11844 Oct 31 17:09	0°♎			11850 Mar 22 06:15	0°♎		
	11844 Dec 11 01:38	0°♏			11850 May 03 12:51	0°♏		
	11845 Jan 22 20:38	0°♎			11850 Jun 12 05:39	0°♎		
	11845 Mar 10 04:15	0°♎			11850 Jul 21 16:31	0°♏		
	11845 May 02 03:07	0°♏			11850 Aug 31 03:24	0°♎		
desc. node	11845 May 30 08:53	12°♏50'07			11850 Oct 12 06:34	0°♏		
retrograde	11845 Jul 16 04:04	23°♏26'29			11850 Nov 25 07:13	0°♎		
opposition	11845 Aug 25 13:20	13°♏54'07	-2°51'19	evening set	11850 Nov 30 13:37	3°♎30'29		
greatest brilliancy	11845 Aug 25 15:20	13°♏52'08	-1.3m		11851 Jan 10 00:31	0°♎		
min. Earth dist.	11845 Aug 26 22:31	13°♏21'27	0.68195 AU					
direct	11845 Oct 06 01:41	3°♏56'18		conjunction	11851 Jan 17 19:23	5°♎01'17	0°00'48	
	11845 Dec 25 05:56	0°♎		minimum elong	11851 Jan 17 19:28	5°♎01'25	0°01'29	
	11846 Feb 14 12:18	0°♏		behind sun begin	11851 Jan 17 00:18	4°♎30'35		
	11846 Mar 31 02:04	0°♊		behind sun end	11851 Jan 18 14:38	5°♎32'14		
	11846 May 11 02:28	0°♎		desc. node	11851 Jan 19 05:11	5°♎55'37		
asc. node	11846 May 31 20:03	15°♎50'06		max. Earth dist.	11851 Jan 28 12:18	11°♎53'28	2.66109 AU	
	11846 Jun 19 00:40	0°♏			11851 Feb 25 23:03	0°♏		
	11846 Jul 26 23:24	0°♎		morning rise	11851 Mar 03 15:40	3°♏36'09		
evening set	11846 Jul 31 08:29	3°♎28'30			11851 Apr 14 14:40	0°♎		
	11846 Sep 02 22:44	0°♏			11851 Jun 01 17:52	0°♏		
					11851 Jul 20 16:00	0°♊		
conjunction	11846 Oct 10 14:38	29°♏04'04	1°05'40		11851 Sep 09 21:56	0°♎		
minimum elong	11846 Oct 10 13:39	29°♏02'13	1°05'59		11851 Nov 12 21:11	0°♏		
	11846 Oct 11 20:10	0°♎		retrograde	11851 Dec 13 17:57	5°♏21'22		
	11846 Nov 21 09:11	0°♏		opposition	11852 Jan 13 00:45	0°♏10'27	-0°42'29	
max. Earth dist.	11846 Nov 28 19:32	5°♏20'22	2.45636 AU	greatest brilliancy	11852 Jan 13 05:40	0°♏06'58	-2.9m	
morning rise	11846 Dec 12 13:49	15°♏05'28			11852 Jan 13 15:33	30°♏		
	11847 Jan 03 02:27	0°♎		min. Earth dist.	11852 Jan 18 13:16	28°♎37'08	0.38436 AU	
	11847 Feb 17 08:45	0°♎		asc. node	11852 Jan 22 13:28	27°♎32'21		
	11847 Apr 06 17:45	0°♏		direct	11852 Feb 13 20:55	24°♎19'59		
desc. node	11847 Apr 17 00:40	6°♏03'59			11852 Mar 14 08:22	0°♏		
	11847 May 30 13:07	0°♎			11852 May 09 17:43	0°♎		
retrograde	11847 Aug 22 02:03	27°♎01'32			11852 Jun 23 15:37	0°♏		
opposition	11847 Sep 29 20:09	18°♎16'51	-4°38'52		11852 Aug 06 10:18	0°♎		
greatest brilliancy	11847 Sep 30 15:18	17°♎58'27	-1.5m		11852 Sep 19 23:06	0°♏		
min. Earth dist.	11847 Oct 05 01:46	16°♎16'10	0.63135 AU		11852 Nov 04 17:22	0°♎		
direct	11847 Nov 10 04:30	8°♎17'48		desc. node	11852 Dec 06 01:27	20°♎08'00		
	11848 Jan 17 15:47	0°♏			11852 Dec 21 13:09	0°♎		

evening set	11853 Jan 08 01:13	11° \approx 06'20			11858 Feb 25 00:12	0° \mathcal{Z}	
	11853 Feb 06 21:27	0° \mathcal{H}			11858 Apr 24 19:21	0° \approx	
max. Earth dist.	11853 Feb 18 17:33	7° \mathcal{H} 30'02	2.68350 AU	retrograde	11858 May 30 15:19	7° \approx 12'01	
					11858 Jul 02 23:17	30° $\mathcal{R}\mathcal{Z}$	
conjunction	11853 Feb 21 16:27	9° \mathcal{H} 22'25	-0°39'14	min. Earth dist.	11858 Jul 06 04:14	28° \mathcal{Z} 44'58	0.64106 AU
minimum elong	11853 Feb 21 15:27	9° \mathcal{H} 20'49	0°38'52	opposition	11858 Jul 10 01:42	27° \mathcal{Z} 12'15	0°44'45
	11853 Mar 26 02:26	0° \mathcal{Y}		greatest brilliancy	11858 Jul 09 23:20	27° \mathcal{Z} 14'36	-1.5m
morning rise	11853 Apr 05 22:16	6° \mathcal{Y} 55'47		desc. node	11858 Jul 29 21:07	20° \mathcal{Z} 27'25	
	11853 May 11 15:37	0° \mathcal{B}		direct	11858 Aug 18 04:31	18° \mathcal{Z} 04'09	
	11853 Jun 26 06:12	0° \mathcal{I}			11858 Oct 08 03:41	0° \approx	
	11853 Aug 09 20:35	0° \mathcal{G}			11858 Dec 08 08:25	0° \mathcal{H}	
	11853 Sep 22 14:56	0° \mathcal{O}			11859 Jan 28 07:03	0° \mathcal{Y}	
	11853 Nov 05 06:09	0° \mathcal{M}			11859 Mar 15 20:47	0° \mathcal{B}	
asc. node	11853 Dec 09 14:07	22° \mathcal{M} 40'34			11859 Apr 28 07:01	0° \mathcal{I}	
	11853 Dec 21 11:05	0° \mathcal{L}		evening set	11859 May 02 20:08	3° \mathcal{I} 15'04	
retrograde	11854 Mar 01 16:51	26° \mathcal{L} 16'58		max. Earth dist.	11859 May 16 23:45	13° \mathcal{I} 30'01	2.43626 AU
min. Earth dist.	11854 Mar 27 14:22	21° \mathcal{L} 51'01	0.40133 AU		11859 Jun 08 06:05	0° \mathcal{G}	
greatest brilliancy	11854 Apr 02 06:15	20° \mathcal{L} 06'36	-2.7m				
opposition	11854 Apr 03 20:39	19° \mathcal{L} 36'47	6°16'47	conjunction	11859 Jun 28 18:04	15° \mathcal{G} 33'29	-0°22'56
direct	11854 May 04 07:36	14° \mathcal{L} 01'16		minimum elong	11859 Jun 28 19:52	15° \mathcal{G} 36'55	0°23'42
	11854 Jun 29 19:08	0° \mathcal{M}			11859 Jul 17 10:36	0° \mathcal{O}	
	11854 Aug 24 13:16	0° \mathcal{J}		asc. node	11859 Jul 31 15:06	11° \mathcal{O} 05'20	
	11854 Oct 13 23:22	0° \mathcal{Z}			11859 Aug 24 15:01	0° \mathcal{M}	
desc. node	11854 Oct 24 05:23	6° \mathcal{Z} 12'32		morning rise	11859 Sep 05 09:51	9° \mathcal{M} 19'06	
	11854 Dec 02 04:32	0° \approx			11859 Oct 01 15:29	0° \mathcal{L}	
	11855 Jan 19 15:39	0° \mathcal{H}			11859 Nov 09 09:19	0° \mathcal{M}	
evening set	11855 Feb 12 16:32	15° \mathcal{H} 06'48			11859 Dec 19 18:19	0° \mathcal{J}	
	11855 Mar 08 01:03	0° \mathcal{Y}			11860 Jan 31 18:32	0° \mathcal{Z}	
max. Earth dist.	11855 Mar 13 12:37	3° \mathcal{Y} 31'36	2.65075 AU		11860 Mar 19 02:11	0° \approx	
					11860 May 16 11:46	0° \mathcal{H}	
conjunction	11855 Mar 28 22:58	13° \mathcal{Y} 31'55	-1°05'07	desc. node	11860 Jun 15 23:12	9° \mathcal{H} 22'29	
minimum elong	11855 Mar 28 22:10	13° \mathcal{Y} 30'36	1°05'14	retrograde	11860 Jul 02 20:38	11° \mathcal{H} 01'38	
	11855 Apr 22 23:07	0° \mathcal{B}		opposition	11860 Aug 12 12:10	1° \mathcal{H} 16'50	-1°58'17
morning rise	11855 May 12 22:24	13° \mathcal{B} 24'10		greatest brilliancy	11860 Aug 12 10:57	1° \mathcal{H} 18'02	-1.3m
	11855 Jun 06 04:14	0° \mathcal{I}		min. Earth dist.	11860 Aug 12 09:22	1° \mathcal{H} 19'36	0.68348 AU
	11855 Jul 18 16:00	0° \mathcal{G}			11860 Aug 15 18:01	30° $\mathcal{R}\approx$	
	11855 Aug 28 15:12	0° \mathcal{O}		direct	11860 Sep 22 14:58	21° \approx 27'50	
	11855 Oct 07 12:29	0° \mathcal{M}			11860 Nov 03 11:01	0° \mathcal{H}	
asc. node	11855 Oct 27 08:42	15° \mathcal{M} 03'11			11861 Jan 04 19:06	0° \mathcal{Y}	
	11855 Nov 16 03:19	0° \mathcal{L}			11861 Feb 22 19:24	0° \mathcal{B}	
	11855 Dec 26 22:47	0° \mathcal{M}			11861 Apr 07 19:29	0° \mathcal{I}	
	11856 Feb 10 06:03	0° \mathcal{J}			11861 May 18 16:52	0° \mathcal{G}	
retrograde	11856 Apr 22 01:03	26° \mathcal{J} 17'21		asc. node	11861 Jun 17 11:35	22° \mathcal{G} 51'24	
min. Earth dist.	11856 May 23 03:37	19° \mathcal{J} 40'48	0.53661 AU		11861 Jun 26 15:01	0° \mathcal{O}	
opposition	11856 May 30 13:45	16° \mathcal{J} 51'47	4°03'03	evening set	11861 Jul 01 10:08	3° \mathcal{O} 45'52	
greatest brilliancy	11856 May 29 13:10	17° \mathcal{J} 15'12	-2.0m		11861 Aug 03 13:51	0° \mathcal{M}	
direct	11856 Jul 05 03:39	9° \mathcal{J} 01'10			11861 Sep 10 12:01	0° \mathcal{L}	
desc. node	11856 Sep 10 14:02	28° \mathcal{J} 39'59					
	11856 Sep 13 09:57	0° \mathcal{Z}		conjunction	11861 Sep 11 04:40	0° \mathcal{L} 32'39	0°53'34
	11856 Nov 09 05:33	0° \approx		minimum elong	11861 Sep 11 00:56	0° \mathcal{L} 25'20	0°53'28
	11856 Dec 30 09:35	0° \mathcal{H}			11861 Oct 19 06:49	0° \mathcal{M}	
	11857 Feb 16 17:18	0° \mathcal{Y}		max. Earth dist.	11861 Nov 03 22:17	11° \mathcal{M} 47'09	2.39990 AU
evening set	11857 Mar 20 08:41	20° \mathcal{Y} 31'08		morning rise	11861 Nov 19 20:15	23° \mathcal{M} 33'23	
	11857 Apr 03 14:31	0° \mathcal{B}			11861 Nov 28 16:40	0° \mathcal{J}	
max. Earth dist.	11857 Apr 07 13:28	2° \mathcal{B} 39'42	2.56515 AU		11862 Jan 10 08:17	0° \mathcal{Z}	
					11862 Feb 24 19:35	0° \approx	
conjunction	11857 May 06 18:07	22° \mathcal{B} 41'13	-1°05'55		11862 Apr 15 05:25	0° \mathcal{H}	
minimum elong	11857 May 06 19:02	22° \mathcal{B} 42'48	1°06'29	desc. node	11862 May 03 18:03	10° \mathcal{H} 20'16	
	11857 May 17 04:09	0° \mathcal{I}			11862 Jun 12 22:51	0° \mathcal{Y}	
morning rise	11857 Jun 27 19:43	0° \mathcal{G} 07'37		retrograde	11862 Aug 07 00:52	13° \mathcal{Y} 46'02	
	11857 Jun 27 15:36	0° \mathcal{G}		opposition	11862 Sep 15 14:26	4° \mathcal{Y} 39'33	-4°03'05
	11857 Aug 06 10:55	0° \mathcal{O}		greatest brilliancy	11862 Sep 16 01:38	4° \mathcal{Y} 28'39	-1.3m
asc. node	11857 Sep 13 00:29	29° \mathcal{O} 05'32		min. Earth dist.	11862 Sep 19 07:52	3° \mathcal{Y} 12'32	0.65937 AU
	11857 Sep 14 04:23	0° \mathcal{M}			11862 Sep 27 23:01	30° $\mathcal{R}\mathcal{H}$	
	11857 Oct 22 14:36	0° \mathcal{L}		direct	11862 Oct 27 05:39	24° \mathcal{H} 36'22	
	11857 Nov 30 17:06	0° \mathcal{M}			11862 Nov 27 18:37	0° \mathcal{Y}	
	11858 Jan 10 18:34	0° \mathcal{J}			11863 Jan 29 19:54	0° \mathcal{B}	

	11863 Mar 17 10:32	0°II	max. Earth dist.	11868 Feb 11 05:35	27°≈51'37	2.68116 AU
	11863 Apr 28 01:26	0°☾		11868 Feb 14 14:33	0°☿	
asc. node	11863 May 05 14:27	5°☾40'35	morning rise	11868 Mar 23 13:23	24°☿03'54	
	11863 Jun 06 04:20	0°♈		11868 Apr 01 21:39	0°♈	
	11863 Jul 14 05:50	0°♉		11868 May 18 22:04	0°♉	
	11863 Aug 21 08:50	0°♊		11868 Jul 04 11:03	0°♊	
evening set	11863 Sep 16 01:03	19°♊48'45		11868 Aug 19 15:07	0°☾	
	11863 Sep 29 11:40	0°♋		11868 Oct 05 00:16	0°♈	
	11863 Nov 09 07:04	0°♌		11868 Nov 23 02:08	0°♉	
			asc. node	11868 Dec 26 06:52	16°♉34'07	
conjunction	11863 Nov 17 19:25	6°♌04'42 0°58'16	retrograde	11869 Feb 01 20:35	25°♉05'21	
minimum elong	11863 Nov 17 21:10	6°♌07'49 0°58'57	min. Earth dist.	11869 Feb 28 20:23	20°♉43'06	0.36844 AU
	11863 Dec 22 04:44	0°♍	opposition	11869 Mar 04 05:15	19°♉48'26	4°50'57
max. Earth dist.	11863 Dec 23 05:10	0°♍41'36 2.53883 AU	greatest brilliancy	11869 Mar 03 12:51	19°♉59'33	-3.0m
morning rise	11864 Jan 11 00:30	13°♍21'32	direct	11869 Apr 02 07:43	14°♉55'32	
	11864 Feb 05 08:03	0°≈		11869 May 25 10:29	0°♊	
desc. node	11864 Mar 20 07:02	27°≈51'39		11869 Jul 18 03:55	0°♋	
	11864 Mar 23 18:10	0°☿		11869 Sep 04 15:55	0°♌	
	11864 May 13 00:56	0°♈		11869 Oct 22 13:35	0°♍	
	11864 Jul 08 14:17	0°♉	desc. node	11869 Nov 09 16:49	11°♍20'05	
retrograde	11864 Sep 16 16:11	20°♉24'17		11869 Dec 09 14:18	0°≈	
opposition	11864 Oct 23 15:12	12°♉24'27 -5°10'41		11870 Jan 26 12:14	0°☿	
greatest brilliancy	11864 Oct 24 23:31	11°♉54'22 -1.7m	evening set	11870 Jan 29 22:37	2°☿09'38	
min. Earth dist.	11864 Oct 31 00:32	9°♉39'38 0.56881 AU	max. Earth dist.	11870 Mar 04 12:06	23°☿25'57	2.67001 AU
direct	11864 Dec 02 19:21	2°♉50'01		11870 Mar 14 18:19	0°♈	
	11865 Feb 16 08:15	0°♊				
asc. node	11865 Mar 22 20:18	22°♊11'04	conjunction	11870 Mar 15 00:09	0°♈09'21 -0°57'21	
	11865 Apr 03 00:29	0°☾	minimum elong	11870 Mar 14 23:05	0°♈07'39 0°57'17	
	11865 May 13 13:50	0°♈	morning rise	11870 Apr 27 20:35	28°♈40'35	
	11865 Jun 21 10:55	0°♉		11870 Apr 29 20:41	0°♉	
	11865 Jul 30 07:17	0°♊		11870 Jun 13 12:19	0°♊	
	11865 Sep 08 04:45	0°♋		11870 Jul 26 15:37	0°☾	
	11865 Oct 19 19:26	0°♌		11870 Sep 06 09:31	0°♈	
evening set	11865 Nov 12 15:54	16°♌35'11		11870 Oct 17 04:06	0°♉	
	11865 Dec 02 09:28	0°♍	asc. node	11870 Nov 13 03:38	19°♉55'51	
				11870 Nov 26 22:04	0°♊	
conjunction	11866 Jan 02 13:41	20°♍41'58 0°18'04		11871 Jan 08 21:25	0°♋	
minimum elong	11866 Jan 02 14:23	20°♍43'08 0°18'50		11871 Mar 05 01:15	0°♌	
	11866 Jan 16 20:06	0°≈	retrograde	11871 Apr 05 02:05	6°♌19'15	
max. Earth dist.	11866 Jan 19 06:12	1°≈34'10 2.63707 AU	min. Earth dist.	11871 May 03 17:23	0°♌38'07	0.48289 AU
desc. node	11866 Feb 04 20:45	12°≈15'53		11871 May 05 12:29	30°♌	
morning rise	11866 Feb 18 00:18	20°≈39'28	greatest brilliancy	11871 May 10 13:43	28°♌10'23	-2.2m
	11866 Mar 04 18:10	0°☿	opposition	11871 May 12 01:46	27°♌37'46	5°19'56
	11866 Apr 21 19:23	0°♈	direct	11871 Jun 14 18:08	20°♌33'41	
	11866 Jun 10 01:44	0°♉		11871 Jul 27 12:59	0°♊	
	11866 Jul 31 18:49	0°♊	desc. node	11871 Sep 27 23:45	0°♋17'29	
	11866 Oct 01 05:39	0°☾		11871 Sep 27 11:00	0°♌	
retrograde	11866 Nov 13 12:04	9°☾29'19		11871 Nov 18 23:12	0°≈	
opposition	11866 Dec 15 21:32	3°☾26'18 -3°24'09		11872 Jan 07 18:41	0°☿	
greatest brilliancy	11866 Dec 17 02:07	3°☾03'31 -2.6m		11872 Feb 24 15:13	0°♈	
min. Earth dist.	11866 Dec 24 04:07	0°☾49'25 0.43062 AU	evening set	11872 Mar 05 15:15	6°♈25'45	
	11866 Dec 26 22:34	30°♉	max. Earth dist.	11872 Mar 27 15:14	20°♈47'40	2.60461 AU
direct	11867 Jan 19 21:52	26°♉08'34		11872 Apr 10 11:36	0°♉	
asc. node	11867 Feb 08 02:26	28°♉38'54				
	11867 Feb 12 22:35	0°☾	conjunction	11872 Apr 20 06:41	6°♉35'37 -1°09'35	
	11867 Apr 12 05:17	0°♈	minimum elong	11872 Apr 20 06:45	6°♉35'43 1°10'00	
	11867 May 25 15:28	0°♉		11872 May 24 06:03	0°♊	
	11867 Jul 06 02:45	0°♊	morning rise	11872 Jun 07 15:59	10°♊11'32	
	11867 Aug 17 00:31	0°♋		11872 Jul 05 01:34	0°☾	
	11867 Sep 29 07:27	0°♌		11872 Aug 14 05:47	0°♈	
	11867 Nov 13 05:09	0°♍		11872 Sep 22 07:37	0°♉	
desc. node	11867 Dec 23 16:00	26°♍15'23	asc. node	11872 Sep 29 19:13	5°♉47'48	
evening set	11867 Dec 25 10:35	27°♍23'45		11872 Oct 31 01:23	0°♊	
	11867 Dec 29 12:00	0°≈		11872 Dec 09 12:42	0°♋	
				11873 Jan 20 08:41	0°♌	
conjunction	11868 Feb 09 01:26	26°≈28'55 -0°24'58		11873 Mar 09 07:34	0°♍	
minimum elong	11868 Feb 09 00:42	26°≈27'45 0°24'27	retrograde	11873 May 16 12:28	22°♍46'10	

min. Earth dist.	11873 Jun 20 02:49	14° Z 56'54	0.60701 AU	greatest brilliancy	11878 Aug 12 16:43	17° M 09'31	1.1m
opposition	11873 Jun 25 10:49	12° Z 50'51	1°58'12	evening set	11878 Aug 17 16:43	21° M 06'01	
greatest brilliancy	11873 Jun 25 02:04	12° Z 59'29	-1.6m		11878 Aug 29 00:48	0° Z	
direct	11873 Aug 02 09:00	4° Z 07'31			11878 Oct 06 23:22	0° M	
desc. node	11873 Aug 15 08:22	5° Z 06'23					
	11873 Oct 22 21:12	0° \approx		conjunction	11878 Oct 25 11:23	13° M 50'53	1°05'56
	11873 Dec 17 03:35	0° H		minimum elong	11878 Oct 25 11:55	13° M 51'53	1°06'27
	11874 Feb 04 18:21	0° Y			11878 Nov 16 13:41	0° Z	
	11874 Mar 22 23:42	0° B		max. Earth dist.	11878 Dec 08 20:03	15° Z 50'02	2.48717 AU
evening set	11874 Apr 14 12:49	15° B 20'54		morning rise	11878 Dec 23 22:20	26° Z 19'02	
max. Earth dist.	11874 Apr 28 10:29	25° B 03'06	2.49044 AU		11878 Dec 29 07:13	0° Z	
	11874 May 05 10:22	0° II			11879 Feb 12 10:39	0° \approx	
					11879 Apr 01 08:06	0° H	
conjunction	11874 Jun 05 15:04	22° II 36'57	-0°46'16	desc. node	11879 Apr 07 01:22	3° H 26'46	
minimum elong	11874 Jun 05 17:13	22° II 40'54	0°47'02		11879 May 23 10:13	0° Y	
	11874 Jun 15 13:37	0° B			11879 Jul 29 11:35	0° B	
	11874 Jul 24 23:00	0° Q		retrograde	11879 Aug 31 05:28	5° B 29'07	
morning rise	11874 Aug 05 20:10	9° Q 14'06			11879 Sep 30 03:47	30° R Y	
asc. node	11874 Aug 17 11:23	18° Q 20'17		opposition	11879 Oct 08 09:58	26° Y 58'37	-4°54'42
	11874 Sep 01 07:24	0° M		greatest brilliancy	11879 Oct 09 09:55	26° Y 35'47	-1.5m
	11874 Oct 09 10:17	0° Z		min. Earth dist.	11879 Oct 14 10:49	24° Y 40'39	0.61183 AU
greatest brilliancy	11874 Oct 26 22:42	13° Z 39'18	1.2m	direct	11879 Nov 18 10:54	17° Y 05'00	
	11874 Nov 17 05:23	0° M			11880 Jan 07 08:28	0° B	
	11874 Dec 27 16:59	0° Z			11880 Feb 29 14:55	0° II	
	11875 Feb 09 03:52	0° Z		asc. node	11880 Apr 08 09:37	26° II 45'40	
	11875 Mar 30 07:51	0° \approx			11880 Apr 12 20:19	0° B	
retrograde	11875 Jun 20 17:17	28° \approx 28'41			11880 May 22 13:47	0° Q	
desc. node	11875 Jul 03 12:36	27° \approx 24'13			11880 Jun 29 23:49	0° M	
min. Earth dist.	11875 Jul 29 20:08	19° \approx 12'50	0.67475 AU		11880 Aug 07 11:00	0° Z	
opposition	11875 Jul 31 10:26	18° \approx 34'47	-0°59'44		11880 Sep 15 23:05	0° M	
greatest brilliancy	11875 Jul 31 08:31	18° \approx 36'41	-1.3m	evening set	11880 Oct 23 10:20	27° M 19'41	
direct	11875 Sep 09 22:27	8° \approx 58'34			11880 Oct 27 04:23	0° Z	
	11875 Nov 20 11:59	0° H			11880 Dec 09 10:22	0° Z	
	11876 Jan 14 19:58	0° Y					
	11876 Mar 02 13:51	0° B		conjunction	11880 Dec 16 23:28	5° Z 05'35	0°35'14
	11876 Apr 15 06:27	0° II		minimum elong	11880 Dec 17 00:51	5° Z 07'55	0°36'03
	11876 May 26 03:46	0° B		max. Earth dist.	11881 Jan 09 04:12	20° Z 31'06	2.60489 AU
evening set	11876 Jun 04 19:35	7° B 19'23			11881 Jan 23 16:19	0° \approx	
asc. node	11876 Jul 04 05:21	0° Q 02'59		morning rise	11881 Feb 03 16:34	7° \approx 07'27	
	11876 Jul 04 03:49	0° Q		desc. node	11881 Feb 21 14:39	18° \approx 35'19	
max. Earth dist.	11876 Jul 26 21:25	17° Q 53'28	2.36455 AU		11881 Mar 11 16:15	0° H	
					11881 Apr 29 07:40	0° Y	
conjunction	11876 Aug 10 17:22	29° Q 38'32	0°26'30		11881 Jun 19 06:50	0° B	
minimum elong	11876 Aug 10 14:37	29° Q 33'04	0°25'59		11881 Aug 15 13:16	0° II	
	11876 Aug 11 04:12	0° M		retrograde	11881 Oct 19 02:02	18° II 09'03	
	11876 Sep 18 02:25	0° Z		opposition	11881 Nov 22 10:55	11° II 13'02	-4°43'55
morning rise	11876 Oct 23 16:20	27° Z 36'35		greatest brilliancy	11881 Nov 24 01:04	10° II 39'50	-2.2m
	11876 Oct 26 19:31	0° M		min. Earth dist.	11881 Dec 01 03:52	8° II 12'21	0.48678 AU
	11876 Dec 06 03:09	0° Z		direct	11881 Dec 30 02:39	2° II 42'22	
	11877 Jan 17 18:53	0° Z		asc. node	11882 Feb 24 17:00	20° II 32'18	
	11877 Mar 04 15:31	0° \approx			11882 Mar 13 01:37	0° B	
	11877 Apr 24 19:07	0° H			11882 Apr 26 11:35	0° Q	
desc. node	11877 May 20 09:42	12° H 55'53			11882 Jun 06 00:03	0° M	
	11877 Jul 10 04:32	0° Y			11882 Jul 15 22:57	0° Z	
retrograde	11877 Jul 23 23:09	1° Y 05'21			11882 Aug 25 18:47	0° M	
	11877 Aug 06 03:15	30° R H			11882 Oct 07 05:18	0° Z	
opposition	11877 Sep 02 02:28	21° H 41'12	-3°19'46		11882 Nov 20 11:36	0° Z	
greatest brilliancy	11877 Sep 02 07:16	21° H 36'30	-1.3m	evening set	11882 Dec 09 22:15	12° Z 49'39	
min. Earth dist.	11877 Sep 04 07:45	20° H 48'55	0.67680 AU		11883 Jan 05 08:31	0° \approx	
direct	11877 Oct 13 17:05	11° H 40'03		desc. node	11883 Jan 09 06:38	2° \approx 31'37	
	11877 Dec 16 22:27	0° Y					
	11878 Feb 08 16:03	0° B		conjunction	11883 Jan 26 01:20	13° \approx 17'18	-0°09'06
	11878 Mar 25 20:13	0° II		minimum elong	11883 Jan 26 01:03	13° \approx 16'51	0°08'27
	11878 May 06 01:24	0° B		behind sun begin	11883 Jan 25 08:45	12° \approx 50'48	
asc. node	11878 May 22 04:10	12° B 15'05		behind sun end	11883 Jan 26 17:22	13° \approx 42'53	
	11878 Jun 14 01:04	0° Q		max. Earth dist.	11883 Feb 02 16:03	18° \approx 08'46	2.67057 AU
	11878 Jul 22 00:34	0° M			11883 Feb 21 07:34	0° H	

morning rise	11883 Mar 11 06:40	11° H 22'10	opposition	11888 Jun 09 11:41	27° H 07'38	3°16'47
	11883 Apr 09 19:18	0° Y	greatest brilliancy	11888 Jun 08 17:28	27° H 25'16	-1.8m
	11883 May 27 11:07	0° B	direct	11888 Jul 15 23:06	18° H 55'55	
	11883 Jul 14 07:57	0° II	desc. node	11888 Aug 31 18:11	29° H 30'57	
	11883 Sep 01 02:10	0° E		11888 Sep 01 23:59	0° E	
	11883 Oct 23 14:16	0° Q		11888 Nov 02 20:46	0° \approx	
retrograde	11884 Jan 01 06:06	22° Q 44'02		11888 Dec 25 04:42	0° H	
asc. node	11884 Jan 12 21:14	21° Q 51'57		11889 Feb 11 22:32	0° Y	
opposition	11884 Jan 30 23:34	17° Q 49'15	1°24'10	evening set	11889 Mar 29 03:18	29° Y 27'19
greatest brilliancy	11884 Jan 31 01:51	17° Q 47'42	-3.0m		11889 Mar 29 22:48	0° B
min. Earth dist.	11884 Feb 02 13:53	17° Q 07'15	0.36890 AU	max. Earth dist.	11889 Apr 14 11:45	10° B 31'27
direct	11884 Mar 01 06:44	12° Q 37'43			11889 May 12 11:37	0° II
	11884 Apr 26 01:49	0° M				
	11884 Jun 15 01:46	0° E	conjunction	11889 May 16 21:09	3° II 07'13	-1°00'55
	11884 Jul 30 16:56	0° M	minimum elong	11889 May 16 22:35	3° II 09'46	1°01'35
	11884 Sep 14 05:30	0° H			11889 Jun 22 20:28	0° E
	11884 Oct 30 14:06	0° E	morning rise	11889 Jul 10 16:25	13° E 21'15	
desc. node	11884 Nov 26 05:10	16° E 58'53			11889 Aug 01 12:22	0° Q
	11884 Dec 16 18:21	0° \approx	asc. node	11889 Sep 03 06:16	25° Q 25'35	
evening set	11885 Jan 16 02:04	19° \approx 08'42			11889 Sep 09 02:31	0° M
	11885 Feb 02 06:35	0° H			11889 Oct 17 09:47	0° E
max. Earth dist.	11885 Feb 23 17:15	13° H 34'48	2.68112 AU		11889 Nov 25 08:35	0° M
					11890 Jan 05 02:36	0° H
conjunction	11885 Mar 01 09:12	17° H 10'41	-0°46'38		11890 Feb 18 10:01	0° E
minimum elong	11885 Mar 01 08:07	17° H 08'58	0°46'23		11890 Apr 12 12:54	0° \approx
	11885 Mar 21 11:41	0° Y		retrograde	11890 Jun 07 10:29	15° \approx 26'56
morning rise	11885 Apr 13 16:38	14° Y 55'38		min. Earth dist.	11890 Jul 14 22:11	6° \approx 41'23
	11885 May 06 20:47	0° B		opposition	11890 Jul 18 00:07	5° \approx 27'52
	11885 Jun 21 02:27	0° II		greatest brilliancy	11890 Jul 17 23:59	5° \approx 28'01
	11885 Aug 04 02:39	0° E		desc. node	11890 Jul 20 00:59	4° \approx 39'26
	11885 Sep 15 23:41	0° Q			11890 Aug 02 00:17	30° R E
	11885 Oct 28 05:39	0° M		direct	11890 Aug 26 15:48	26° E 08'38
asc. node	11885 Nov 29 22:15	22° M 54'31			11890 Sep 22 17:31	0° \approx
	11885 Dec 10 08:39	0° E			11890 Dec 01 20:45	0° H
	11886 Jan 29 11:57	0° M			11891 Jan 23 01:15	0° Y
retrograde	11886 Mar 15 05:34	12° M 25'27			11891 Mar 11 00:28	0° B
min. Earth dist.	11886 Apr 10 17:50	7° M 38'12	0.42830 AU		11891 Apr 23 13:13	0° II
greatest brilliancy	11886 Apr 17 05:27	5° M 30'12	-2.6m	evening set	11891 May 14 04:51	14° II 55'35
opposition	11886 Apr 18 23:37	4° M 55'16	6°13'55	max. Earth dist.	11891 May 31 14:28	27° II 49'28
	11886 May 07 03:23	30° R E			11891 Jun 03 12:03	0° E
direct	11886 May 20 11:50	28° E 47'27			11891 Jul 12 15:01	0° Q
	11886 Jun 03 10:13	0° M				
	11886 Aug 16 00:53	0° H		conjunction	11891 Jul 13 10:52	0° Q 38'41
	11886 Oct 07 20:26	0° E		minimum elong	11891 Jul 13 11:29	0° Q 39'54
desc. node	11886 Oct 14 10:02	3° E 52'28		behind sun begin	11891 Jul 12 09:46	29° E 49'47
	11886 Nov 27 00:03	0° \approx		behind sun end	11891 Jul 14 13:12	1° Q 30'03
	11887 Jan 14 21:10	0° H		asc. node	11891 Jul 21 22:37	7° Q 17'08
evening set	11887 Feb 20 13:48	23° H 03'55			11891 Aug 19 17:45	0° M
	11887 Mar 03 10:17	0° Y		morning rise	11891 Sep 23 13:20	27° M 31'21
max. Earth dist.	11887 Mar 18 22:31	10° Y 00'28	2.63665 AU		11891 Sep 26 16:59	0° E
					11891 Nov 04 09:46	0° M
conjunction	11887 Apr 06 03:50	21° Y 55'55	-1°08'01		11891 Dec 14 16:59	0° H
minimum elong	11887 Apr 06 03:16	21° Y 54'59	1°08'15		11892 Jan 26 12:05	0° E
	11887 Apr 18 07:54	0° B			11892 Mar 13 01:47	0° \approx
morning rise	11887 May 22 01:46	22° B 51'36			11892 May 06 12:28	0° H
	11887 Jun 01 09:22	0° II		desc. node	11892 Jun 06 01:51	12° H 28'14
	11887 Jul 13 15:29	0° E		retrograde	11892 Jul 10 11:15	18° H 38'37
	11887 Aug 23 07:37	0° Q		opposition	11892 Aug 19 23:22	9° H 00'24
	11887 Oct 01 21:06	0° M		greatest brilliancy	11892 Aug 19 23:40	9° H 00'07
asc. node	11887 Oct 17 16:20	12° M 05'52		min. Earth dist.	11892 Aug 20 16:30	8° H 43'28
	11887 Nov 10 02:32	0° E			11892 Sep 18 09:20	30° R \approx
	11887 Dec 20 05:43	0° M		direct	11892 Sep 30 07:28	29° \approx 06'05
	11888 Feb 01 15:27	0° H			11892 Oct 12 19:04	0° H
	11888 Mar 29 00:40	0° E			11892 Dec 29 02:16	0° Y
retrograde	11888 May 01 08:56	6° E 48'05			11893 Feb 17 09:27	0° B
	11888 Jun 02 01:01	30° R H			11893 Apr 02 18:41	0° II
min. Earth dist.	11888 Jun 02 18:32	29° H 43'25	0.56366 AU		11893 May 13 19:09	0° E

asc. node	11893 Jun 07 20:22	19° ♊ 09'46		desc. node	11898 Jan 25 22:33	8° ♋ 53'23	
	11893 Jun 21 18:02	0° ♋		morning rise	11898 Feb 25 20:35	28° ♋ 36'33	
evening set	11893 Jul 17 21:54	20° ♌ 38'24			11898 Feb 28 01:18	0° ♌	
	11893 Jul 29 16:57	0° ♍			11898 Apr 16 20:24	0° ♍	
	11893 Sep 05 15:22	0° ♎			11898 Jun 04 09:59	0° ♏	
					11898 Jul 24 08:20	0° ♐	
conjunction	11893 Sep 28 03:19	17° ♑ 31'04	1°02'25		11898 Sep 16 10:49	0° ♑	
minimum elong	11893 Sep 28 00:58	17° ♑ 26'33	1°02'34	retrograde	11898 Nov 29 21:04	23° ♑ 52'00	
	11893 Oct 14 10:34	0° ♒		opposition	11898 Dec 31 01:05	18° ♑ 19'28	-2°03'26
max. Earth dist.	11893 Nov 19 12:11	26° ♓ 50'18	2.43077 AU	greatest brilliancy	11898 Dec 31 17:26	18° ♑ 07'18	-2.8m
	11893 Nov 23 20:43	0° ♈		min. Earth dist.	11899 Jan 07 04:44	16° ♑ 12'16	0.40290 AU
morning rise	11893 Dec 03 03:18	6° ♈ 40'22		asc. node	11899 Jan 29 13:12	11° ♑ 56'11	
	11894 Jan 05 11:33	0° ♉		direct	11899 Feb 02 08:12	11° ♑ 50'05	
	11894 Feb 19 17:47	0° ♊			11899 Mar 30 15:10	0° ♋	
	11894 Apr 09 09:49	0° ♋			11899 May 17 06:32	0° ♌	
desc. node	11894 Apr 23 18:42	8° ♋ 19'02			11899 Jun 29 05:52	0° ♍	
	11894 Jun 03 15:59	0° ♍			11899 Aug 11 00:31	0° ♎	
retrograde	11894 Aug 15 12:04	21° ♏ 45'47			11899 Sep 23 21:21	0° ♏	
opposition	11894 Sep 23 15:05	12° ♏ 50'54	-4°24'56		11899 Nov 08 04:53	0° ♐	
greatest brilliancy	11894 Sep 24 06:38	12° ♏ 35'52	-1.4m	desc. node	11899 Dec 13 17:39	22° ♐ 57'27	
min. Earth dist.	11894 Sep 28 04:36	11° ♏ 04'56	0.64507 AU		11899 Dec 24 17:56	0° ♑	
direct	11894 Nov 04 02:46	2° ♏ 49'03		evening set	11900 Jan 02 21:16	5° ♑ 49'33	
	11895 Jan 22 10:05	0° ♒			11900 Feb 09 23:13	0° ♒	
	11895 Mar 11 13:59	0° ♓					
	11895 Apr 22 16:04	0° ♊		conjunction	11900 Feb 16 21:19	4° ♒ 23'09	-0°33'35
asc. node	11895 Apr 25 22:27	2° ♊ 26'02		minimum elong	11900 Feb 16 20:24	4° ♒ 21'42	0°33'08
	11895 May 31 23:27	0° ♋		max. Earth dist.	11900 Feb 16 04:58	3° ♒ 57'16	2.68355 AU
	11895 Jul 09 03:28	0° ♌			11900 Mar 29 05:10	0° ♍	
	11895 Aug 16 08:50	0° ♍		morning rise	11900 Apr 01 04:05	1° ♍ 53'04	
	11895 Sep 24 14:05	0° ♎			11900 May 14 23:18	0° ♏	
evening set	11895 Sep 30 22:36	4° ♎ 45'14			11900 Jun 29 23:30	0° ♐	
	11895 Nov 04 11:50	0° ♑			11900 Aug 14 05:17	0° ♑	
					11900 Sep 27 22:48	0° ♋	
conjunction	11895 Nov 29 10:10	17° ♑ 35'13	0°50'53		11900 Nov 12 06:18	0° ♌	
minimum elong	11895 Nov 29 12:00	17° ♑ 38'24	0°51'38	asc. node	11900 Dec 17 14:59	21° ♌ 37'34	
	11895 Dec 17 11:14	0° ♒			11901 Jan 02 10:19	0° ♍	
max. Earth dist.	11895 Dec 30 04:42	8° ♒ 36'30	2.56440 AU	retrograde	11901 Feb 19 03:37	13° ♍ 31'07	
morning rise	11896 Jan 20 08:17	22° ♒ 39'24		min. Earth dist.	11901 Mar 17 02:22	9° ♍ 14'05	0.38334 AU
	11896 Jan 31 13:59	0° ♓		opposition	11901 Mar 22 23:16	7° ♍ 32'02	5°57'01
desc. node	11896 Mar 10 08:02	24° ♋ 43'50		greatest brilliancy	11901 Mar 21 16:37	7° ♍ 54'24	-2.9m
	11896 Mar 18 18:35	0° ♌		direct	11901 Apr 21 16:57	2° ♍ 19'59	
	11896 May 07 07:16	0° ♍			11901 Jul 09 04:19	0° ♎	
	11896 Jun 30 02:04	0° ♏			11901 Aug 29 19:20	0° ♏	
	11896 Sep 23 13:26	0° ♐			11901 Oct 17 22:48	0° ♑	
retrograde	11896 Sep 27 13:09	0° ♑ 05'41		desc. node	11901 Oct 31 20:18	8° ♑ 33'11	
	11896 Oct 01 11:21	30° ♒			11901 Dec 05 14:06	0° ♒	
opposition	11896 Nov 02 15:49	22° ♒ 26'02	-5°10'16		11902 Jan 22 19:09	0° ♓	
greatest brilliancy	11896 Nov 04 03:53	21° ♒ 53'01	-1.9m	evening set	11902 Feb 07 19:10	10° ♓ 03'34	
min. Earth dist.	11896 Nov 10 16:01	19° ♒ 30'38	0.54125 AU	max. Earth dist.	11902 Mar 10 17:00	29° ♓ 43'00	2.66048 AU
direct	11896 Dec 12 02:30	13° ♒ 08'20			11902 Mar 11 03:36	0° ♈	
	11897 Feb 06 04:17	0° ♓					
asc. node	11897 Mar 13 05:58	20° ♓ 45'21		conjunction	11902 Mar 23 21:50	8° ♈ 13'18	-1°02'20
	11897 Mar 27 00:29	0° ♊		minimum elong	11902 Mar 23 20:54	8° ♈ 11'46	1°02'21
	11897 May 07 10:36	0° ♋			11902 Apr 26 04:17	0° ♌	
	11897 Jun 15 17:21	0° ♌		morning rise	11902 May 07 07:03	7° ♌ 24'00	
	11897 Jul 24 20:36	0° ♍			11902 Jun 09 14:47	0° ♍	
	11897 Sep 03 00:04	0° ♎			11902 Jul 22 09:57	0° ♎	
	11897 Oct 14 20:08	0° ♏			11902 Sep 01 17:31	0° ♏	
evening set	11897 Nov 23 01:55	26° ♏ 57'09			11902 Oct 11 23:27	0° ♐	
	11897 Nov 27 14:43	0° ♑		asc. node	11902 Nov 04 10:26	17° ♐ 37'16	
					11902 Nov 21 00:10	0° ♑	
conjunction	11898 Jan 11 09:21	29° ♑ 30'01	0°07'57		11903 Jan 01 11:21	0° ♒	
minimum elong	11898 Jan 11 09:40	29° ♑ 30'31	0°08'42		11903 Feb 17 23:50	0° ♓	
behind sun begin	11898 Jan 10 16:59	29° ♑ 03'29		retrograde	11903 Apr 16 14:25	18° ♓ 31'22	
behind sun end	11898 Jan 12 02:21	29° ♑ 57'32		min. Earth dist.	11903 May 16 14:29	12° ♓ 18'28	0.51317 AU
	11898 Jan 12 03:53	0° ♒		greatest brilliancy	11903 May 23 06:03	9° ♓ 50'02	-2.1m
max. Earth dist.	11898 Jan 24 15:51	8° ♒ 04'02	2.65149 AU	opposition	11903 May 24 11:43	9° ♓ 22'18	4°37'16

direct	11903 Jun 28 06:13	1°♊50'58		conjunction	11908 Aug 29 10:19	17°♍33'19	0°43'23
desc. node	11903 Sep 19 04:57	29°♊19'07		minimum elong	11908 Aug 29 06:22	17°♍25'31	0°43'05
	11903 Sep 20 13:04	0°♊			11908 Sep 14 04:54	0°♊	
	11903 Nov 14 05:13	0°♋		max. Earth dist.	11908 Oct 15 22:12	24°♊39'06	2.37700 AU
	11904 Jan 03 18:38	0°♌			11908 Oct 22 22:10	0°♌	
	11904 Feb 20 22:13	0°♍		morning rise	11908 Nov 09 13:34	13°♌18'26	
evening set	11904 Mar 14 22:25	14°♍51'00			11908 Dec 02 05:40	0°♊	
max. Earth dist.	11904 Apr 03 19:49	27°♍59'06	2.58379 AU		11909 Jan 13 19:40	0°♊	
	11904 Apr 06 20:10	0°♋			11909 Feb 28 08:23	0°♋	
					11909 Apr 19 06:38	0°♌	
conjunction	11904 Apr 30 10:35	16°♋00'58	-1°08'12	desc. node	11909 May 11 11:57	12°♌00'10	
minimum elong	11904 Apr 30 11:06	16°♋01'52	1°08'45		11909 Jun 20 12:34	0°♍	
	11904 May 20 13:06	0°♌		retrograde	11909 Aug 01 22:04	8°♍46'44	
morning rise	11904 Jun 19 16:15	21°♌33'30			11909 Sep 09 13:15	30°♌♋	
	11904 Jul 01 05:09	0°♍		opposition	11909 Sep 10 18:03	29°♌31'55	-3°45'51
	11904 Aug 10 05:08	0°♎		greatest brilliancy	11909 Sep 11 02:14	29°♌23'55	-1.3m
	11904 Sep 18 02:25	0°♏		min. Earth dist.	11909 Sep 13 19:08	28°♌20'26	0.66852 AU
asc. node	11904 Sep 21 02:42	2°♏20'37		direct	11909 Oct 22 09:10	19°♌28'57	
	11904 Oct 26 15:33	0°♐			11909 Dec 07 11:06	0°♍	
	11904 Dec 04 20:34	0°♑			11910 Feb 03 11:09	0°♋	
	11905 Jan 15 02:49	0°♊			11910 Mar 21 11:22	0°♌	
	11905 Mar 02 02:37	0°♋			11910 May 01 23:00	0°♍	
	11905 May 09 12:20	0°♌		asc. node	11910 May 13 14:06	8°♍47'08	
retrograde	11905 May 25 16:55	1°♌38'39			11910 Jun 10 01:03	0°♎	
	11905 Jun 10 01:52	30°♌♋			11910 Jul 18 01:30	0°♏	
min. Earth dist.	11905 Jun 30 09:18	23°♋27'40	0.62697 AU		11910 Aug 25 02:38	0°♐	
opposition	11905 Jul 04 22:17	21°♋39'42	1°14'43	evening set	11910 Sep 04 14:13	8°♐09'46	
greatest brilliancy	11905 Jul 04 17:35	21°♋44'23	-1.5m		11910 Oct 03 02:31	0°♑	
desc. node	11905 Aug 06 12:47	12°♋55'37					
direct	11905 Aug 12 12:24	12°♋42'01		conjunction	11910 Nov 09 03:11	27°♌23'00	1°02'32
	11905 Oct 15 02:10	0°♌		minimum elong	11910 Nov 09 04:39	27°♌25'38	1°03'11
	11905 Dec 12 08:27	0°♍			11910 Nov 12 18:11	0°♊	
	11906 Jan 31 17:56	0°♎		max. Earth dist.	11910 Dec 18 13:41	25°♊13'44	2.51656 AU
	11906 Mar 19 05:20	0°♋			11910 Dec 25 12:33	0°♋	
evening set	11906 Apr 25 15:35	25°♋42'24		morning rise	11911 Jan 04 11:57	6°♋46'36	
	11906 May 01 17:03	0°♌			11911 Feb 08 14:12	0°♌	
max. Earth dist.	11906 May 09 04:39	5°♌20'54	2.46075 AU		11911 Mar 28 03:15	0°♍	
	11906 Jun 11 19:07	0°♍		desc. node	11911 Mar 29 01:42	0°♌34'24	
					11911 May 18 00:14	0°♎	
conjunction	11906 Jun 19 05:18	5°♍34'41	-0°34'01		11911 Jul 16 08:06	0°♋	
minimum elong	11906 Jun 19 07:26	5°♍38'44	0°34'47	retrograde	11911 Sep 10 21:32	14°♋17'39	
	11906 Jul 21 02:35	0°♎		opposition	11911 Oct 18 10:13	6°♋03'15	-5°05'43
asc. node	11906 Aug 08 17:09	14°♎31'23		greatest brilliancy	11911 Oct 19 14:55	5°♋36'10	-1.6m
morning rise	11906 Aug 23 13:35	26°♎12'21		min. Earth dist.	11911 Oct 25 04:59	3°♋29'54	0.58926 AU
	11906 Aug 28 09:01	0°♏			11911 Nov 04 10:43	30°♋♍	
	11906 Oct 05 10:22	0°♐		direct	11911 Nov 28 00:23	26°♍18'33	
	11906 Nov 13 03:58	0°♑			11911 Dec 22 18:49	0°♋	
	11906 Dec 23 12:26	0°♊			11912 Feb 23 07:43	0°♌	
	11907 Feb 04 14:36	0°♋		asc. node	11912 Mar 30 19:56	24°♌18'47	
	11907 Mar 24 10:27	0°♌			11912 Apr 07 19:18	0°♍	
	11907 May 26 04:56	0°♍			11912 May 17 23:45	0°♎	
desc. node	11907 Jun 24 15:48	6°♌03'06			11912 Jun 25 15:25	0°♏	
retrograde	11907 Jun 29 06:13	6°♌10'52			11912 Aug 03 06:47	0°♐	
	11907 Jul 30 12:18	30°♌♋			11912 Sep 11 22:48	0°♑	
opposition	11907 Aug 08 22:27	26°♌21'32	-1°34'48		11912 Oct 23 07:38	0°♊	
min. Earth dist.	11907 Aug 08 03:40	26°♌40'10	0.68081 AU	evening set	11912 Nov 05 05:30	9°♊04'39	
greatest brilliancy	11907 Aug 08 20:33	26°♌23'25	-1.3m		11912 Dec 05 16:35	0°♋	
direct	11907 Sep 18 18:43	16°♌37'49					
	11907 Nov 12 03:43	0°♌		conjunction	11912 Dec 27 14:55	14°♋40'25	0°25'20
	11908 Jan 09 23:11	0°♍		minimum elong	11912 Dec 27 15:56	14°♋42'05	0°26'07
	11908 Feb 27 11:17	0°♋		max. Earth dist.	11913 Jan 16 02:05	27°♋27'43	2.62364 AU
	11908 Apr 11 09:24	0°♌			11913 Jan 19 23:41	0°♌	
	11908 May 22 07:51	0°♍		morning rise	11913 Feb 12 23:17	15°♌27'12	
evening set	11908 Jun 20 07:03	22°♍11'17		desc. node	11913 Feb 12 14:33	15°♌13'15	
asc. node	11908 Jun 25 12:06	26°♍14'35			11913 Mar 07 21:28	0°♌	
	11908 Jun 30 07:29	0°♎			11913 Apr 25 03:36	0°♍	
	11908 Aug 07 07:03	0°♏			11913 Jun 14 00:40	0°♋	

	11913 Aug 06 12:36	0°♂		11918 Nov 22 15:13	0°♂	
	11913 Oct 28 02:45	0°♂		11919 Jan 11 00:44	0°♂	
retrograde	11913 Nov 02 19:02	0°♂11'55		11919 Feb 27 18:41	0°♂	
	11913 Nov 08 09:31	30°♂♂	evening set	11919 Mar 01 12:58	1°♂07'44	
opposition	11913 Dec 06 03:04	23°♂44'11 -4°06'30	max. Earth dist.	11919 Mar 25 11:48	16°♂38'48 2.61986 AU	
greatest brilliancy	11913 Dec 07 13:34	23°♂15'26 -2.4m		11919 Apr 14 16:25	0°♂	
min. Earth dist.	11913 Dec 14 19:44	20°♂51'52 0.45537 AU				
direct	11914 Jan 11 10:03	15°♂50'46	conjunction	11919 Apr 15 15:20	0°♂38'16 -1°09'32	
asc. node	11914 Feb 16 02:20	23°♂51'04	minimum elong	11919 Apr 15 15:06	0°♂37'53 1°09'53	
	11914 Mar 01 11:24	0°♂		11919 May 28 14:58	0°♂	
	11914 Apr 19 09:29	0°♂	morning rise	11919 Jun 01 19:04	2°♂55'11	
	11914 May 31 05:39	0°♂		11919 Jul 09 15:49	0°♂	
	11914 Jul 10 21:25	0°♂		11919 Aug 19 01:51	0°♂	
	11914 Aug 21 05:24	0°♂		11919 Sep 27 08:48	0°♂	
	11914 Oct 03 01:10	0°♂	asc. node	11919 Oct 08 21:29	8°♂53'17	
	11914 Nov 16 14:31	0°♂		11919 Nov 05 07:03	0°♂	
evening set	11914 Dec 19 21:28	21°♂45'58		11919 Dec 14 23:33	0°♂	
desc. node	11914 Dec 31 08:43	29°♂10'09		11920 Jan 26 06:20	0°♂	
	11915 Jan 01 15:43	0°♂		11920 Mar 16 05:40	0°♂	
			retrograde	11920 May 11 03:51	16°♂35'38	
conjunction	11915 Feb 04 02:51	21°♂23'34 -0°18'33	min. Earth dist.	11920 Jun 13 19:26	9°♂05'10 0.58869 AU	
minimum elong	11915 Feb 04 02:17	21°♂22'40 0°17'59	opposition	11920 Jun 19 18:18	6°♂45'18 2°30'53	
max. Earth dist.	11915 Feb 08 18:19	24°♂20'41 2.67745 AU	greatest brilliancy	11920 Jun 19 05:49	6°♂57'32 -1.7m	
	11915 Feb 17 16:04	0°♂		11920 Jul 10 17:15	30°♂♂	
morning rise	11915 Mar 19 20:59	19°♂08'07	direct	11920 Jul 27 01:06	28°♂15'14	
	11915 Apr 06 00:54	0°♂		11920 Aug 13 13:20	0°♂	
	11915 May 23 07:40	0°♂	desc. node	11920 Aug 22 23:49	2°♂09'55	
	11915 Jul 09 09:41	0°♂		11920 Oct 27 21:53	0°♂	
	11915 Aug 25 13:07	0°♂		11920 Dec 20 19:43	0°♂	
	11915 Oct 12 20:19	0°♂		11921 Feb 08 02:13	0°♂	
	11915 Dec 07 07:38	0°♂		11921 Mar 26 06:31	0°♂	
asc. node	11916 Jan 04 07:05	9°♂24'13	evening set	11921 Apr 08 05:44	8°♂45'21	
retrograde	11916 Jan 20 21:01	11°♂10'06	max. Earth dist.	11921 Apr 23 01:27	18°♂57'04 2.51343 AU	
opposition	11916 Feb 19 14:38	6°♂12'46 3°31'04		11921 May 08 19:30	0°♂	
greatest brilliancy	11916 Feb 19 09:49	6°♂15'57 -3.1m				
min. Earth dist.	11916 Feb 18 20:32	6°♂24'44 0.36402 AU	conjunction	11921 May 28 16:23	14°♂15'22 -0°53'32	
direct	11916 Mar 19 19:51	1°♂21'05	minimum elong	11921 May 28 18:17	14°♂18'49 0°54'17	
	11916 Jun 05 08:43	0°♂		11921 Jun 19 02:12	0°♂	
	11916 Jul 24 05:36	0°♂	morning rise	11921 Jul 25 19:40	27°♂49'58	
	11916 Sep 09 03:46	0°♂		11921 Jul 28 15:10	0°♂	
	11916 Oct 26 06:40	0°♂	asc. node	11921 Aug 25 13:22	21°♂43'55	
desc. node	11916 Nov 17 08:33	13°♂56'40		11921 Sep 05 02:13	0°♂	
	11916 Dec 12 21:09	0°♂		11921 Oct 13 06:35	0°♂	
evening set	11917 Jan 25 00:44	27°♂07'03		11921 Nov 21 02:20	0°♂	
	11917 Jan 29 14:29	0°♂		11921 Dec 31 14:45	0°♂	
max. Earth dist.	11917 Mar 01 18:01	19°♂43'17 2.67599 AU		11922 Feb 13 06:44	0°♂	
				11922 Apr 04 12:43	0°♂	
conjunction	11917 Mar 10 03:29	25°♂04'24 -0°53'16	retrograde	11922 Jun 16 02:15	23°♂28'23	
minimum elong	11917 Mar 10 02:23	25°♂02'39 0°53'06	desc. node	11922 Jul 11 04:57	19°♂18'36	
	11917 Mar 17 20:21	0°♂	min. Earth dist.	11922 Jul 24 11:47	14°♂25'32 0.66756 AU	
morning rise	11917 Apr 22 16:31	23°♂10'58	opposition	11922 Jul 26 18:09	13°♂31'27 -0°33'52	
	11917 May 03 02:05	0°♂	greatest brilliancy	11922 Jul 26 16:45	13°♂32'50 -1.4m	
	11917 Jun 17 00:28	0°♂	direct	11922 Sep 04 21:21	4°♂02'21	
	11917 Jul 30 13:08	0°♂		11922 Nov 25 17:04	0°♂	
	11917 Sep 10 18:42	0°♂		11923 Jan 18 15:01	0°♂	
	11917 Oct 22 02:52	0°♂		11923 Mar 07 02:04	0°♂	
asc. node	11917 Nov 21 05:33	21°♂50'20		11923 Apr 19 18:33	0°♂	
	11917 Dec 02 16:00	0°♂	evening set	11923 May 27 11:32	27°♂33'22	
	11918 Jan 16 10:26	0°♂		11923 May 30 17:41	0°♂	
retrograde	11918 Mar 28 11:03	26°♂55'18	max. Earth dist.	11923 Jun 22 12:25	17°♂20'57 2.37974 AU	
min. Earth dist.	11918 Apr 25 00:24	21°♂39'27 0.45805 AU		11923 Jul 08 19:53	0°♂	
greatest brilliancy	11918 May 01 20:16	19°♂17'20 -2.4m	asc. node	11923 Jul 13 06:36	3°♂28'34	
opposition	11918 May 03 12:10	18°♂42'27 5°48'34				
direct	11918 Jun 05 06:11	12°♂02'36	conjunction	11923 Jul 30 09:47	16°♂57'09 0°12'21	
	11918 Aug 06 11:39	0°♂	minimum elong	11923 Jul 30 08:33	16°♂54'42 0°11'43	
	11918 Oct 02 06:25	0°♂	behind sun begin	11923 Jul 29 11:45	16°♂13'40	
desc. node	11918 Oct 05 14:45	1°♂54'09	behind sun end	11923 Jul 31 05:21	17°♂35'45	

	11923 Aug 15 21:30	0°♎	direct	11928 Dec 23 00:32	24°♎18'21	
	11923 Sep 22 19:45	0°♏		11929 Jan 22 05:49	0°♐	
morning rise	11923 Oct 12 09:37	15°♏18'05	asc. node	11929 Mar 04 16:30	20°♐22'02	
	11923 Oct 31 11:51	0°♐		11929 Mar 20 01:21	0°♑	
	11923 Dec 10 17:46	0°♑		11929 May 01 21:18	0°♒	
	11924 Jan 22 08:49	0°♒		11929 Jun 10 18:42	0°♓	
	11924 Mar 08 09:18	0°♓		11929 Jul 20 07:03	0°♏	
	11924 Apr 29 11:53	0°♎		11929 Aug 29 17:53	0°♐	
desc. node	11924 May 28 02:55	13°♎33'18		11929 Oct 10 20:11	0°♑	
retrograde	11924 Jul 19 03:53	26°♎15'07		11929 Nov 23 19:43	0°♒	
opposition	11924 Aug 28 11:13	16°♎44'14 -3°00'00	evening set	11929 Dec 03 20:17	6°♒40'14	
greatest brilliancy	11924 Aug 28 13:46	16°♎41'43 -1.3m		11930 Jan 08 11:57	0°♓	
min. Earth dist.	11924 Aug 30 00:08	16°♎07'52 0.68130 AU	desc. node	11930 Jan 16 23:31	5°♓28'25	
direct	11924 Oct 08 23:00	6°♎45'37				
	11924 Dec 22 14:34	0°♑	conjunction	11930 Jan 20 20:36	7°♓58'03 -0°02'08	
	11925 Feb 12 18:21	0°♒	minimum elong	11930 Jan 20 20:35	7°♓58'01 0°01'27	
	11925 Mar 29 15:39	0°♐	behind sun begin	11930 Jan 20 01:29	7°♓27'21	
	11925 May 09 19:50	0°♑	behind sun end	11930 Jan 21 15:41	8°♓28'41	
asc. node	11925 May 30 04:11	15°♑30'03	max. Earth dist.	11930 Jan 30 22:33	14°♓25'47 2.66310 AU	
	11925 Jun 17 19:56	0°♒		11930 Feb 24 09:33	0°♓	
	11925 Jul 25 19:17	0°♓	morning rise	11930 Mar 06 13:38	6°♓26'21	
evening set	11925 Aug 05 03:25	8°♓12'09		11930 Apr 12 23:49	0°♑	
	11925 Sep 01 18:16	0°♏		11930 May 31 00:08	0°♒	
	11925 Oct 10 14:30	0°♐		11930 Jul 18 15:37	0°♐	
				11930 Sep 07 03:47	0°♑	
conjunction	11925 Oct 15 00:43	3°♐20'56 1°06'08		11930 Nov 05 07:21	0°♒	
minimum elong	11925 Oct 15 00:09	3°♐19'54 1°06'30	retrograde	11930 Dec 18 17:33	9°♒58'46	
	11925 Nov 20 01:36	0°♑	opposition	11931 Jan 17 21:21	4°♒51'53 -0°13'30	
max. Earth dist.	11925 Dec 02 10:10	8°♑52'12 2.46222 AU	greatest brilliancy	11931 Jan 17 22:55	4°♒50'47 -3.0m	
morning rise	11925 Dec 16 06:54	18°♑39'19	asc. node	11931 Jan 20 21:01	4°♒01'34	
	11926 Jan 01 16:16	0°♒	min. Earth dist.	11931 Jan 22 20:26	3°♒28'34 0.38066 AU	
	11926 Feb 15 18:54	0°♓		11931 Feb 07 09:01	30°♓	
	11926 Apr 04 21:30	0°♎	direct	11931 Feb 18 10:44	29°♓09'47	
desc. node	11926 Apr 14 19:22	5°♎53'43		11931 Mar 01 09:04	0°♒	
	11926 May 27 23:15	0°♑		11931 May 07 19:07	0°♓	
retrograde	11926 Aug 25 07:11	29°♑58'20		11931 Jun 22 13:51	0°♏	
opposition	11926 Oct 02 22:06	21°♑16'14 -4°43'25		11931 Aug 05 15:48	0°♐	
greatest brilliancy	11926 Oct 03 18:16	20°♑56'51 -1.5m		11931 Sep 19 07:37	0°♑	
min. Earth dist.	11926 Oct 08 06:55	19°♑12'26 0.62799 AU		11931 Nov 04 03:10	0°♒	
direct	11926 Nov 13 04:20	11°♑17'45	desc. node	11931 Dec 04 20:58	19°♒44'32	
	11927 Jan 14 17:43	0°♒		11931 Dec 20 23:32	0°♓	
	11927 Mar 06 09:59	0°♐	evening set	11932 Jan 12 01:16	13°♓59'42	
asc. node	11927 Apr 17 08:37	29°♐25'30		11932 Feb 06 08:18	0°♎	
	11927 Apr 18 03:21	0°♑	max. Earth dist.	11932 Feb 22 03:39	10°♎00'44 2.68324 AU	
	11927 May 27 16:43	0°♒				
	11927 Jul 04 23:52	0°♓	conjunction	11932 Feb 25 14:28	12°♎12'01 -0°41'30	
	11927 Aug 12 07:40	0°♏	minimum elong	11932 Feb 25 13:26	12°♎10'22 0°41'10	
	11927 Sep 20 15:39	0°♐		11932 Mar 24 13:45	0°♑	
evening set	11927 Oct 15 15:33	18°♐26'56	morning rise	11932 Apr 08 19:59	9°♑46'23	
	11927 Oct 31 16:10	0°♑		11932 May 10 03:04	0°♒	
				11932 Jun 24 17:03	0°♐	
conjunction	11927 Dec 11 05:36	28°♑17'35 0°42'08		11932 Aug 08 05:34	0°♑	
minimum elong	11927 Dec 11 07:14	28°♑20'23 0°42'55		11932 Sep 20 20:00	0°♒	
	11927 Dec 13 17:46	0°♒		11932 Nov 03 02:49	0°♓	
max. Earth dist.	11928 Jan 06 16:29	16°♒05'00 2.58775 AU	asc. node	11932 Dec 07 22:50	23°♓24'35	
	11928 Jan 27 20:51	0°♓		11932 Dec 18 07:18	0°♏	
morning rise	11928 Jan 30 05:49	1°♓32'35		11933 Feb 22 17:32	0°♐	
desc. node	11928 Mar 01 08:51	21°♓29'27	retrograde	11933 Mar 05 21:29	0°♐54'15	
	11928 Mar 14 21:26	0°♎		11933 Mar 17 01:46	30°♓	
	11928 May 02 19:53	0°♑	min. Earth dist.	11933 Mar 31 19:54	26°♏25'54 0.40610 AU	
	11928 Jun 23 17:54	0°♒	greatest brilliancy	11933 Apr 06 17:28	24°♏35'39 -2.7m	
	11928 Aug 24 11:18	0°♐	opposition	11933 Apr 08 09:27	24°♏04'16 6°20'03	
retrograde	11928 Oct 10 07:19	10°♐29'56	direct	11933 May 08 23:38	18°♏22'54	
opposition	11928 Nov 14 11:50	3°♐12'57 -4°59'36		11933 Jun 24 22:50	0°♐	
greatest brilliancy	11928 Nov 16 01:50	2°♐39'00 -2.0m		11933 Aug 22 02:32	0°♑	
min. Earth dist.	11928 Nov 22 23:14	0°♐12'09 0.51183 AU		11933 Oct 12 00:56	0°♒	
	11928 Nov 23 13:22	30°♓	desc. node	11933 Oct 22 01:11	6°♒01'46	

	11933 Nov 30 11:06	0°≈		11938 Sep 30 10:54	0°♎
	11934 Jan 18 01:03	0°✎		11938 Nov 08 03:11	0°♍
evening set	11934 Feb 15 15:18	17°✎58'00		11938 Dec 18 09:32	0°♊
	11934 Mar 06 12:33	0°♑		11939 Jan 30 05:12	0°♈
max. Earth dist.	11934 Mar 16 00:06	6°♑05'55 2.64842 AU		11939 Mar 18 03:01	0°≈
				11939 May 13 16:24	0°✎
conjunction	11934 Mar 31 22:35	16°♑26'50 -1°06'08	desc. node	11939 Jun 14 18:43	11°✎06'33
minimum elong	11934 Mar 31 21:50	16°♑25'37 1°06'16	retrograde	11939 Jul 06 19:44	13°✎50'06
	11934 Apr 21 12:19	0°♄	opposition	11939 Aug 16 09:48	4°✎06'29 -2°08'01
morning rise	11934 May 16 01:39	16°♄29'33	greatest brilliancy	11939 Aug 16 08:47	4°✎07'29 -1.3m
	11934 Jun 04 18:45	0°♈	min. Earth dist.	11939 Aug 16 10:40	4°✎05'36 0.68377 AU
	11934 Jul 17 07:19	0°♊		11939 Aug 27 03:37	30°♋≈
	11934 Aug 27 06:43	0°♎	direct	11939 Sep 26 12:53	24°≈16'32
	11934 Oct 06 03:13	0°♐		11939 Oct 30 00:31	0°✎
asc. node	11934 Oct 25 18:29	14°♐55'32		11940 Jan 03 15:08	0°♑
	11934 Nov 14 15:37	0°♎		11940 Feb 22 04:23	0°♄
	11934 Dec 25 04:55	0°♍		11940 Apr 06 10:26	0°♈
	11935 Feb 07 17:06	0°♊		11940 May 17 11:12	0°♊
retrograde	11935 Apr 26 09:33	29°♊44'38	asc. node	11940 Jun 15 20:51	22°♊30'52
min. Earth dist.	11935 May 27 18:04	23°♊01'50 0.54183 AU		11940 Jun 25 11:12	0°♎
greatest brilliancy	11935 Jun 03 01:14	20°♊37'35 -1.9m	evening set	11940 Jul 05 21:49	8°♎12'02
opposition	11935 Jun 04 00:18	20°♊15'30 3°51'18		11940 Aug 02 10:36	0°♐
direct	11935 Jul 09 17:43	12°♊20'36		11940 Sep 09 08:16	0°♎
desc. node	11935 Sep 09 09:13	29°♊16'37			
	11935 Sep 10 23:40	0°♈	conjunction	11940 Sep 15 22:11	5°♎09'39 0°56'07
	11935 Nov 08 02:23	0°≈	minimum elong	11940 Sep 15 18:38	5°♎02'44 0°56'05
	11935 Dec 29 15:23	0°✎		11940 Oct 18 01:39	0°♍
	11936 Feb 16 03:47	0°♑	max. Earth dist.	11940 Nov 08 12:46	16°♍09'01 2.40543 AU
evening set	11936 Mar 23 11:03	23°♑32'02	morning rise	11940 Nov 23 22:27	27°♍29'20
	11936 Apr 02 04:08	0°♄		11940 Nov 27 09:18	0°♊
max. Earth dist.	11936 Apr 10 08:40	5°♄30'31 2.56059 AU		11941 Jan 08 21:56	0°♈
				11941 Feb 23 04:47	0°≈
conjunction	11936 May 10 01:59	25°♄57'32 -1°04'50		11941 Apr 13 05:35	0°✎
minimum elong	11936 May 10 03:01	25°♄59'20 1°05'28	desc. node	11941 May 01 12:52	10°✎21'29
	11936 May 15 20:02	0°♈		11941 Jun 09 10:23	0°♑
	11936 Jun 26 09:02	0°♊	retrograde	11941 Aug 10 03:45	16°♑37'46
morning rise	11936 Jul 01 15:10	3°♊53'36	opposition	11941 Sep 18 14:27	7°♑33'27 -4°09'35
	11936 Aug 05 05:16	0°♎	greatest brilliancy	11941 Sep 19 02:35	7°♑21'39 -1.4m
asc. node	11936 Sep 11 08:44	28°♎45'25	min. Earth dist.	11941 Sep 22 11:26	6°♑02'56 0.65681 AU
	11936 Sep 12 22:56	0°♐		11941 Oct 10 13:16	30°♋✎
	11936 Oct 21 08:26	0°♎	direct	11941 Oct 30 03:45	27°✎30'24
	11936 Nov 29 08:53	0°♍		11941 Nov 20 00:32	0°♑
	11937 Jan 09 05:48	0°♊		11942 Jan 27 15:08	0°♄
	11937 Feb 23 00:07	0°♈		11942 Mar 15 20:06	0°♈
	11937 Apr 20 02:24	0°≈		11942 Apr 26 16:43	0°♊
retrograde	11937 Jun 02 15:17	10°≈09'10	asc. node	11942 May 03 22:17	5°♊25'12
min. Earth dist.	11937 Jul 09 07:53	1°≈38'33 0.64397 AU		11942 Jun 04 22:25	0°♎
opposition	11937 Jul 13 01:45	0°≈09'15 0°32'58		11942 Jul 13 01:02	0°♐
greatest brilliancy	11937 Jul 13 00:04	0°≈10'55 -1.5m		11942 Aug 20 04:00	0°♎
	11937 Jul 13 11:03	30°♋♈	evening set	11942 Sep 20 10:33	24°♎05'41
desc. node	11937 Jul 27 16:32	24°♈50'34		11942 Sep 28 05:53	0°♍
direct	11937 Aug 21 06:28	20°♈59'08		11942 Nov 07 23:39	0°♊
	11937 Oct 03 15:25	0°≈			
	11937 Dec 06 03:56	0°✎	conjunction	11942 Nov 21 13:01	9°♊40'01 0°56'31
	11938 Jan 26 14:13	0°♑	minimum elong	11942 Nov 21 14:51	9°♊43'16 0°57'15
	11938 Mar 14 09:41	0°♄		11942 Dec 20 19:13	0°♈
	11938 Apr 26 23:32	0°♈	max. Earth dist.	11942 Dec 26 03:42	3°♈38'41 2.54381 AU
evening set	11938 May 06 08:58	6°♈43'18	morning rise	11943 Jan 14 06:43	16°♈29'29
max. Earth dist.	11938 May 20 23:24	17°♈20'26 2.43056 AU		11943 Feb 03 19:58	0°≈
	11938 Jun 07 00:50	0°♊	desc. node	11943 Mar 19 02:28	27°≈31'12
				11943 Mar 23 02:26	0°✎
conjunction	11938 Jul 02 21:28	19°♊39'02 -0°19'04		11943 May 12 01:46	0°♑
minimum elong	11938 Jul 02 23:02	19°♊42'04 0°19'50		11943 Jul 06 13:34	0°♄
	11938 Jul 16 06:30	0°♎	retrograde	11943 Sep 21 04:17	23°♄31'53
asc. node	11938 Jul 29 23:56	10°♎43'17	opposition	11943 Oct 27 22:38	15°♄35'36 -5°10'50
	11938 Aug 23 11:07	0°♐	greatest brilliancy	11943 Oct 29 07:42	15°♄04'49 -1.8m
morning rise	11938 Sep 10 07:28	14°♐07'02	min. Earth dist.	11943 Nov 04 10:12	12°♄48'56 0.56369 AU

direct	11943 Dec 06 22:32	6°♄03'47		conjunction	11949 Mar 17 23:06	3°♄02'04 -0°58'57	
	11944 Feb 14 17:54	0°♄		minimum elong	11949 Mar 17 22:04	3°♄00'25 0°58'55	
asc. node	11944 Mar 21 05:06	22°♄20'03			11949 Apr 28 09:13	0°♄	
	11944 Apr 01 07:04	0°♄		morning rise	11949 Apr 30 21:18	1°♄39'16	
	11944 May 12 02:47	0°♄			11949 Jun 12 01:34	0°♄	
	11944 Jun 20 02:13	0°♄			11949 Jul 25 04:53	0°♄	
	11944 Jul 28 23:09	0°♄			11949 Sep 04 21:59	0°♄	
	11944 Sep 06 20:14	0°♄			11949 Oct 15 14:31	0°♄	
	11944 Oct 18 09:57	0°♄		asc. node	11949 Nov 11 12:18	19°♄57'28	
evening set	11944 Nov 16 04:59	19°♄59'27			11949 Nov 25 03:49	0°♄	
	11944 Nov 30 22:47	0°♄			11950 Jan 06 14:23	0°♄	
					11950 Feb 27 08:25	0°♄	
conjunction	11945 Jan 05 18:07	23°♄45'22 0°15'13		retrograde	11950 Apr 08 16:07	10°♄05'46	
minimum elong	11945 Jan 05 18:43	23°♄46'21 0°15'59		min. Earth dist.	11950 May 07 13:17	4°♄17'44 0.48874 AU	
	11945 Jan 15 08:06	0°♄		greatest brilliancy	11950 May 14 08:28	1°♄49'50 -2.2m	
max. Earth dist.	11945 Jan 21 15:08	4°♄04'45 2.64010 AU		opposition	11950 May 15 19:03	1°♄18'14 5°10'34	
desc. node	11945 Feb 02 16:20	11°♄50'29			11950 May 19 10:21	30°♄	
morning rise	11945 Feb 20 23:03	23°♄30'53		direct	11950 Jun 18 16:41	24°♄08'28	
	11945 Mar 03 04:39	0°♄			11950 Jul 21 09:39	0°♄	
	11945 Apr 20 03:31	0°♄			11950 Sep 24 23:37	0°♄	
	11945 Jun 08 05:01	0°♄		desc. node	11950 Sep 25 19:58	0°♄27'24	
	11945 Jul 29 09:20	0°♄			11950 Nov 17 01:01	0°♄	
	11945 Sep 26 02:13	0°♄			11951 Jan 06 01:58	0°♄	
retrograde	11945 Nov 17 21:45	13°♄24'01			11951 Feb 23 01:55	0°♄	
opposition	11945 Dec 20 01:37	7°♄26'50 -3°06'51		evening set	11951 Mar 09 16:16	9°♄22'55	
greatest brilliancy	11945 Dec 21 03:53	7°♄06'13 -2.6m		max. Earth dist.	11951 Mar 31 10:01	23°♄36'17 2.60096 AU	
min. Earth dist.	11945 Dec 28 06:05	4°♄53'37 0.42511 AU			11951 Apr 10 00:53	0°♄	
direct	11946 Jan 23 19:21	0°♄17'49					
asc. node	11946 Feb 06 13:02	1°♄36'18		conjunction	11951 Apr 24 11:07	9°♄42'45 -1°09'27	
	11946 Apr 09 13:10	0°♄		minimum elong	11951 Apr 24 11:18	9°♄43'03 1°09'54	
	11946 May 23 17:34	0°♄			11951 May 23 21:25	0°♄	
	11946 Jul 04 10:37	0°♄		morning rise	11951 Jun 12 03:40	13°♄38'05	
	11946 Aug 15 10:30	0°♄			11951 Jul 04 18:21	0°♄	
	11946 Sep 27 18:03	0°♄			11951 Aug 13 23:20	0°♄	
	11946 Nov 11 15:48	0°♄			11951 Sep 22 01:07	0°♄	
desc. node	11946 Dec 21 10:25	25°♄49'20		asc. node	11951 Sep 29 05:03	5°♄33'12	
	11946 Dec 27 22:37	0°♄			11951 Oct 30 17:42	0°♄	
evening set	11946 Dec 28 13:24	0°♄23'41			11951 Dec 09 02:04	0°♄	
					11952 Jan 19 15:15	0°♄	
conjunction	11947 Feb 12 00:46	29°♄21'15 -0°27'34			11952 Mar 06 16:43	0°♄	
minimum elong	11947 Feb 11 23:59	29°♄20'00 0°27'04		retrograde	11952 May 19 14:03	25°♄51'37	
	11947 Feb 13 01:13	0°♄		min. Earth dist.	11952 Jun 23 09:08	17°♄58'02 0.61092 AU	
max. Earth dist.	11947 Feb 13 18:04	0°♄26'43 2.68196 AU		opposition	11952 Jun 28 13:41	15°♄55'06 1°46'01	
morning rise	11947 Mar 27 10:51	26°♄53'35		greatest brilliancy	11952 Jun 28 06:00	16°♄02'41 -1.6m	
	11947 Apr 01 08:11	0°♄		direct	11952 Aug 05 14:15	7°♄09'03	
	11947 May 18 07:52	0°♄		desc. node	11952 Aug 13 04:27	7°♄29'35	
	11947 Jul 03 18:50	0°♄			11952 Oct 19 23:56	0°♄	
	11947 Aug 18 18:35	0°♄			11952 Dec 15 04:18	0°♄	
	11947 Oct 03 18:22	0°♄			11953 Feb 03 02:40	0°♄	
	11947 Nov 20 16:27	0°♄			11953 Mar 21 12:19	0°♄	
asc. node	11947 Dec 25 15:54	18°♄39'28		evening set	11953 Apr 17 21:25	18°♄38'36	
retrograde	11948 Feb 07 11:53	29°♄58'42		max. Earth dist.	11953 May 01 18:53	28°♄22'31 2.48485 AU	
min. Earth dist.	11948 Mar 05 06:35	25°♄38'05 0.37058 AU			11953 May 04 01:58	0°♄	
greatest brilliancy	11948 Mar 08 07:34	24°♄48'05 -3.0m					
opposition	11948 Mar 09 02:51	24°♄34'48 5°10'53		conjunction	11953 Jun 09 10:31	26°♄22'52 -0°43'26	
direct	11948 Apr 07 08:48	19°♄39'16		minimum elong	11953 Jun 09 12:41	26°♄26'53 0°44'13	
	11948 May 20 02:40	0°♄			11953 Jun 14 07:17	0°♄	
	11948 Jul 15 15:16	0°♄			11953 Jul 23 17:58	0°♄	
	11948 Sep 02 16:37	0°♄		morning rise	11953 Aug 10 10:03	13°♄44'45	
	11948 Oct 20 19:15	0°♄		asc. node	11953 Aug 15 19:24	17°♄57'59	
desc. node	11948 Nov 07 11:44	11°♄01'39			11953 Aug 31 02:54	0°♄	
	11948 Dec 07 22:25	0°♄			11953 Oct 08 05:23	0°♄	
	11949 Jan 24 22:03	0°♄		greatest brilliancy	11953 Oct 09 04:43	0°♄45'45 1.2m	
evening set	11949 Feb 01 21:51	5°♄01'41			11953 Nov 15 22:59	0°♄	
max. Earth dist.	11949 Mar 06 20:59	25°♄55'49 2.66853 AU			11953 Dec 26 07:32	0°♄	
	11949 Mar 13 05:37	0°♄			11954 Feb 07 12:26	0°♄	
					11954 Mar 28 00:36	0°♄	

	11954 Jun 08 20:16	0°♄	asc. node	11959 Apr 07 19:13	26°♄42'05	
retrograde	11954 Jun 23 15:41	1°♄18'03		11959 Apr 12 08:37	0°♄	
desc. node	11954 Jul 01 08:13	0°♄54'56		11959 May 22 06:22	0°♄	
	11954 Jul 07 16:38	30°♄		11959 Jun 29 18:02	0°♄	
min. Earth dist.	11954 Aug 01 20:57	21°♄59'36 0.67610 AU		11959 Aug 07 05:15	0°♄	
opposition	11954 Aug 03 08:03	21°♄24'41 -1°10'21		11959 Sep 15 16:21	0°♄	
greatest brilliancy	11954 Aug 03 05:56	21°♄26'48 -1.3m		11959 Oct 26 20:03	0°♄	
direct	11954 Sep 12 21:13	11°♄47'06	evening set	11959 Oct 28 05:54	1°♄00'11	
	11954 Nov 17 10:34	0°♄		11959 Dec 09 00:09	0°♄	
	11955 Jan 12 22:15	0°♄				
	11955 Mar 02 00:47	0°♄	conjunction	11959 Dec 21 08:37	8°♄19'53 0°32'31	
	11955 Apr 14 21:52	0°♄	minimum elong	11959 Dec 21 09:56	8°♄22'05 0°33'20	
	11955 May 25 21:46	0°♄	max. Earth dist.	11960 Jan 12 20:35	23°♄15'23 2.60855 AU	
evening set	11955 Jun 09 23:33	11°♄26'27		11960 Jan 23 04:10	0°♄	
asc. node	11955 Jul 03 12:37	29°♄39'22	morning rise	11960 Feb 07 18:37	10°♄05'43	
	11955 Jul 03 23:11	0°♄	desc. node	11960 Feb 20 08:29	18°♄08'42	
	11955 Aug 10 23:57	0°♄		11960 Mar 10 01:52	0°♄	
conjunction	11955 Aug 16 15:00	4°♄27'51 0°30'50		11960 Apr 27 13:36	0°♄	
minimum elong	11955 Aug 16 11:51	4°♄21'35 0°30'22		11960 Jun 17 04:07	0°♄	
max. Earth dist.	11955 Aug 20 18:05	7°♄44'23 2.36348 AU	retrograde	11960 Aug 12 02:09	0°♄	
	11955 Sep 17 21:44	0°♄	opposition	11960 Oct 23 00:49	21°♄43'01	
	11955 Oct 26 13:40	0°♄	greatest brilliancy	11960 Nov 26 06:12	14°♄51'58 -4°35'29	
morning rise	11955 Oct 29 08:47	2°♄07'50	min. Earth dist.	11960 Nov 27 19:33	14°♄19'44 -2.2m	
	11955 Dec 05 19:17	0°♄	direct	11960 Dec 05 00:28	11°♄51'56 0.48078 AU	
	11956 Jan 17 07:52	0°♄	asc. node	11961 Jan 02 15:25	6°♄28'08	
	11956 Mar 02 22:55	0°♄		11961 Feb 23 01:41	21°♄37'16	
	11956 Apr 22 12:28	0°♄		11961 Mar 10 05:22	0°♄	
desc. node	11956 Apr 22 05:29	13°♄19'11		11961 Apr 24 14:43	0°♄	
	11956 Jun 29 24:00	0°♄		11961 Jun 04 10:06	0°♄	
retrograde	11956 Jul 26 23:04	3°♄52'53		11961 Jul 14 11:34	0°♄	
	11956 Aug 20 18:32	30°♄		11961 Aug 24 08:05	0°♄	
opposition	11956 Sep 05 00:18	24°♄30'24 -3°27'38		11961 Oct 05 18:20	0°♄	
greatest brilliancy	11956 Sep 05 05:46	24°♄25'02 -1.3m	evening set	11961 Nov 18 23:53	0°♄	
min. Earth dist.	11956 Sep 07 08:51	23°♄34'50 0.67555 AU		11961 Dec 13 03:23	15°♄54'56	
direct	11956 Oct 16 14:18	14°♄28'50	desc. node	11962 Jan 03 20:00	0°♄	
	11956 Dec 13 17:27	0°♄		11962 Jan 07 01:08	2°♄04'21	
	11957 Feb 06 19:57	0°♄	conjunction	11962 Jan 29 02:09	16°♄12'26 -0°11'54	
	11957 Mar 24 09:24	0°♄	minimum elong	11962 Jan 29 01:46	16°♄11'50 0°11'17	
	11957 May 04 18:53	0°♄	behind sun begin	11962 Jan 28 12:14	15°♄50'14	
asc. node	11957 May 20 13:37	11°♄57'42	behind sun end	11962 Jan 29 15:19	16°♄33'25	
	11957 Jun 12 20:35	0°♄	max. Earth dist.	11962 Feb 05 03:17	20°♄42'04 2.67208 AU	
	11957 Jul 20 20:37	0°♄		11962 Feb 19 18:19	0°♄	
greatest brilliancy	11957 Jul 28 15:20	6°♄10'06 1.2m	morning rise	11962 Mar 14 04:53	14°♄12'34	
evening set	11957 Aug 22 12:14	25°♄48'52		11962 Apr 08 05:07	0°♄	
	11957 Aug 27 20:15	0°♄		11962 May 25 19:07	0°♄	
	11957 Oct 05 17:26	0°♄		11962 Jul 12 11:49	0°♄	
				11962 Aug 29 20:17	0°♄	
conjunction	11957 Oct 29 17:13	17°♄56'14 1°05'23		11962 Oct 20 01:04	0°♄	
minimum elong	11957 Oct 29 18:03	17°♄57'46 1°05'55	retrograde	11963 Jan 06 05:58	27°♄29'39	
	11957 Nov 15 05:48	0°♄	asc. node	11963 Jan 11 06:41	27°♄19'56	
max. Earth dist.	11957 Dec 12 08:06	19°♄15'11 2.49297 AU	opposition	11963 Feb 04 22:21	22°♄36'22 1°54'39	
morning rise	11957 Dec 27 12:29	29°♄45'31	greatest brilliancy	11963 Feb 05 00:16	22°♄35'05 -3.1m	
	11957 Dec 27 20:57	0°♄	min. Earth dist.	11963 Feb 06 21:33	22°♄04'54 0.36705 AU	
	11958 Feb 10 21:23	0°♄	direct	11963 Mar 06 21:10	17°♄30'35	
	11958 Mar 30 13:54	0°♄		11963 Apr 22 03:57	0°♄	
desc. node	11958 Apr 04 20:15	3°♄11'33		11963 Jun 13 13:48	0°♄	
	11958 May 21 03:52	0°♄		11963 Jul 29 18:02	0°♄	
	11958 Jul 23 17:13	0°♄		11963 Sep 13 11:39	0°♄	
retrograde	11958 Sep 03 12:56	8°♄28'44		11963 Oct 29 22:29	0°♄	
opposition	11958 Oct 11 13:45	0°♄01'07 -4°57'50	desc. node	11963 Nov 25 00:17	16°♄36'39	
	11958 Oct 11 14:55	30°♄		11963 Dec 16 03:56	0°♄	
greatest brilliancy	11958 Oct 12 14:41	29°♄37'21 -1.6m	evening set	11964 Jan 20 02:14	22°♄02'15	
min. Earth dist.	11958 Oct 17 17:10	27°♄40'42 0.60784 AU		11964 Feb 01 17:00	0°♄	
direct	11958 Nov 21 11:43	20°♄08'54	max. Earth dist.	11964 Feb 27 03:21	16°♄06'08 2.68022 AU	
	11959 Jan 03 05:26	0°♄				
	11959 Feb 27 16:19	0°♄	conjunction	11964 Mar 04 08:18	20°♄02'47 -0°48'43	

minimum elong	11964 Mar 04 07:13	20° X 01'03	0°48'29	desc. node	11969 Jul 17 20:50	9° \approx 37'29	
	11964 Mar 19 22:44	0° Y		min. Earth dist.	11969 Jul 18 00:50	9° \approx 33'32	0.65834 AU
morning rise	11964 Apr 16 16:17	17° Y 51'01		opposition	11969 Jul 20 23:30	8° \approx 23'12	-0°06'54
	11964 May 05 08:11	0° X		greatest brilliancy	11969 Jul 20 23:15	8° \approx 23'28	-1.4m
	11964 Jun 19 13:41	0° II			11969 Aug 17 09:16	30° R Z	
	11964 Aug 02 12:57	0° S		direct	11969 Aug 29 17:26	29° Z 02'09	
	11964 Sep 14 07:57	0° Ω			11969 Sep 11 18:45	0° \approx	
	11964 Oct 26 09:37	0° M			11969 Nov 29 10:42	0° X	
asc. node	11964 Nov 28 07:00	23° M 15'20			11970 Jan 21 06:34	0° Y	
	11964 Dec 08 01:42	0° L			11970 Mar 09 12:25	0° X	
	11965 Jan 25 03:21	0° M			11970 Apr 22 05:10	0° II	
retrograde	11965 Mar 19 03:55	16° M 37'40		evening set	11970 May 17 21:02	18° II 33'29	
min. Earth dist.	11965 Apr 14 18:21	11° M 45'54	0.43373 AU		11970 Jun 02 06:35	0° S	
greatest brilliancy	11965 Apr 21 09:02	9° M 34'22	-2.5m	max. Earth dist.	11970 Jun 05 07:28	2° S 16'56	2.40134 AU
opposition	11965 Apr 23 02:53	8° M 59'22	6°10'31		11970 Jul 11 11:01	0° Ω	
direct	11965 May 24 21:34	2° M 45'32					
	11965 Aug 13 02:56	0° X		conjunction	11970 Jul 17 19:23	4° Ω 57'18	-0°01'51
	11965 Oct 05 18:53	0° Z		minimum elong	11970 Jul 17 19:39	4° Ω 57'50	0°02'34
desc. node	11965 Oct 12 05:38	3° Z 46'29		behind sun begin	11970 Jul 16 15:35	4° Ω 02'59	
	11965 Nov 25 05:15	0° \approx		behind sun end	11970 Jul 18 23:43	5° Ω 52'44	
	11966 Jan 13 05:53	0° X		asc. node	11970 Jul 20 07:48	6° Ω 55'32	
evening set	11966 Feb 23 12:49	25° X 56'13			11970 Aug 18 14:11	0° M	
	11966 Mar 01 21:28	0° Y			11970 Sep 25 12:47	0° L	
max. Earth dist.	11966 Mar 21 10:09	12° Y 35'54	2.63360 AU	morning rise	11970 Sep 28 10:54	2° L 17'48	
					11970 Nov 03 03:56	0° M	
conjunction	11966 Apr 09 05:08	24° Y 55'08	-1°08'39		11970 Dec 13 08:27	0° X	
minimum elong	11966 Apr 09 04:40	24° Y 54'22	1°08'56		11971 Jan 24 23:15	0° Z	
	11966 Apr 16 20:58	0° X			11971 Mar 12 04:55	0° \approx	
morning rise	11966 May 25 08:30	26° X 05'41			11971 May 04 13:22	0° X	
	11966 May 30 23:45	0° II		desc. node	11971 Jun 04 20:10	13° X 32'25	
	11966 Jul 12 06:34	0° S		retrograde	11971 Jul 14 10:31	21° X 27'43	
	11966 Aug 21 22:50	0° Ω		opposition	11971 Aug 23 21:06	11° X 50'37	-2°39'17
	11966 Sep 30 11:47	0° M		greatest brilliancy	11971 Aug 23 21:46	11° X 49'57	-1.3m
asc. node	11966 Oct 15 23:40	11° M 52'45		min. Earth dist.	11971 Aug 24 17:27	11° X 30'29	0.68374 AU
	11966 Nov 08 15:31	0° L		direct	11971 Oct 04 05:33	1° X 55'27	
	11966 Dec 18 14:34	0° M			11971 Dec 27 16:15	0° Y	
	11967 Jan 30 12:56	0° X			11972 Feb 16 16:40	0° X	
	11967 Mar 24 23:30	0° Z			11972 Apr 01 08:37	0° II	
retrograde	11967 May 05 13:05	10° Z 04'35			11972 May 12 12:38	0° S	
min. Earth dist.	11967 Jun 07 05:00	2° Z 54'24	0.56871 AU	asc. node	11972 Jun 06 04:35	18° S 49'16	
opposition	11967 Jun 13 18:21	0° Z 21'39	3°04'42		11972 Jun 20 13:22	0° Ω	
greatest brilliancy	11967 Jun 13 01:34	0° Z 37'58	-1.8m	evening set	11972 Jul 22 14:21	25° Ω 17'04	
	11967 Jun 14 16:43	30° R X			11972 Jul 28 12:58	0° M	
direct	11967 Jul 20 08:40	22° X 06'22			11972 Sep 04 11:05	0° L	
	11967 Aug 28 23:35	0° Z					
desc. node	11967 Aug 30 14:40	0° Z 34'38		conjunction	11972 Oct 02 17:31	21° L 58'56	1°03'46
	11967 Nov 01 13:18	0° \approx		minimum elong	11972 Oct 02 15:35	21° L 55'13	1°03'59
	11967 Dec 24 09:06	0° X			11972 Oct 13 05:07	0° M	
	11968 Feb 11 08:26	0° Y			11972 Nov 22 13:19	0° X	
	11968 Mar 28 12:19	0° X		max. Earth dist.	11972 Nov 23 13:11	0° X 43'16	2.43668 AU
evening set	11968 Apr 01 06:07	2° X 30'31		morning rise	11972 Dec 07 00:12	10° X 23'25	
max. Earth dist.	11968 Apr 17 09:10	13° X 27'18	2.53533 AU		11973 Jan 04 01:23	0° Z	
	11968 May 11 03:43	0° II			11973 Feb 18 03:38	0° \approx	
					11973 Apr 07 12:22	0° X	
conjunction	11968 May 20 07:22	6° II 29'55	-0°59'17	desc. node	11973 Apr 21 13:24	8° X 12'48	
minimum elong	11968 May 20 08:55	6° II 32'40	1°00'00		11973 May 31 19:59	0° Y	
	11968 Jun 21 14:18	0° S		retrograde	11973 Aug 18 15:39	24° Y 39'46	
morning rise	11968 Jul 14 17:38	17° S 21'15		opposition	11973 Sep 26 15:48	15° Y 47'01	-4°30'21
	11968 Jul 31 07:02	0° Ω		greatest brilliancy	11973 Sep 27 08:16	15° Y 31'03	-1.4m
asc. node	11968 Sep 01 15:09	25° Ω 06'22		min. Earth dist.	11973 Oct 01 08:10	13° Y 58'13	0.64223 AU
	11968 Sep 07 21:09	0° M		direct	11973 Nov 07 01:50	5° Y 45'30	
	11968 Oct 16 03:27	0° L			11974 Jan 19 21:34	0° X	
	11968 Nov 24 00:06	0° M			11974 Mar 09 22:01	0° II	
	11969 Jan 03 14:08	0° X			11974 Apr 21 07:00	0° S	
	11969 Feb 16 12:54	0° Z		asc. node	11974 Apr 24 07:57	2° S 15'17	
	11969 Apr 09 07:41	0° \approx			11974 May 30 17:19	0° Ω	
retrograde	11969 Jun 10 09:18	18° \approx 22'17			11974 Jul 07 22:20	0° M	

	11974 Aug 15 03:26	0°♄	morning rise	11979 Apr 04 01:08	4°♃41'18	
	11974 Sep 23 07:37	0°♌		11979 May 13 10:45	0°♄	
evening set	11974 Oct 05 03:00	8°♌49'05		11979 Jun 28 09:46	0°♌	
	11974 Nov 03 03:48	0°♊		11979 Aug 12 12:44	0°♄	
				11979 Sep 26 00:25	0°♌	
conjunction	11974 Dec 03 00:40	21°♊02'48 0°48'39		11979 Nov 09 18:36	0°♌	
minimum elong	11974 Dec 03 02:29	21°♊05'56 0°49'27	asc. node	11979 Dec 15 23:35	22°♌47'32	
	11974 Dec 16 01:19	0°♄		11979 Dec 28 17:14	0°♄	
max. Earth dist.	11975 Jan 02 01:22	11°♄29'37 2.56907 AU	retrograde	11980 Feb 23 13:08	18°♄20'58	
morning rise	11975 Jan 23 13:14	25°♄44'08	min. Earth dist.	11980 Mar 20 10:29	14°♄03'38	0.38717 AU
	11975 Jan 30 01:53	0°♌	greatest brilliancy	11980 Mar 25 08:22	12°♄37'00	-2.8m
desc. node	11975 Mar 09 03:18	24°♌21'28	opposition	11980 Mar 26 17:51	12°♄12'15	6°07'15
	11975 Mar 18 03:24	0°♋	direct	11980 Apr 25 13:18	6°♄55'12	
	11975 May 06 10:13	0°♃		11980 Jul 04 18:53	0°♌	
	11975 Jun 28 12:30	0°♄		11980 Aug 26 14:40	0°♊	
	11975 Sep 07 03:36	0°♌		11980 Oct 15 02:47	0°♄	
retrograde	11975 Oct 02 04:31	3°♌22'32	desc. node	11980 Oct 28 16:44	8°♄19'30	
	11975 Oct 25 09:04	30°♋♄		11980 Dec 02 21:55	0°♌	
opposition	11975 Nov 07 03:05	25°♄46'36 -5°07'47		11981 Jan 20 05:13	0°♋	
greatest brilliancy	11975 Nov 08 15:23	25°♄13'28 -1.9m	evening set	11981 Feb 09 17:34	12°♋53'25	
min. Earth dist.	11975 Nov 15 05:09	22°♄50'16 0.53597 AU		11981 Mar 08 15:24	0°♃	
direct	11975 Dec 16 09:09	16°♄32'51	max. Earth dist.	11981 Mar 12 01:34	2°♃11'47	2.65853 AU
	11976 Feb 03 12:55	0°♌				
asc. node	11976 Mar 11 15:52	21°♌07'52	conjunction	11981 Mar 25 20:37	11°♃05'34 -1°03'34	
	11976 Mar 25 02:26	0°♄	minimum elong	11981 Mar 25 19:44	11°♃04'08 1°03'39	
	11976 May 05 22:11	0°♌		11981 Apr 23 17:35	0°♄	
	11976 Jun 14 08:25	0°♌	morning rise	11981 May 09 08:38	10°♄24'42	
	11976 Jul 23 12:39	0°♄		11981 Jun 07 05:11	0°♌	
	11976 Sep 01 15:46	0°♌		11981 Jul 20 00:56	0°♄	
	11976 Oct 13 10:48	0°♊		11981 Aug 30 08:21	0°♌	
evening set	11976 Nov 26 10:47	0°♄11'13		11981 Oct 09 13:06	0°♌	
	11976 Nov 26 04:06	0°♄	asc. node	11981 Nov 01 20:36	17°♌33'38	
	11977 Jan 10 16:02	0°♌		11981 Nov 18 10:35	0°♄	
				11981 Dec 29 13:37	0°♌	
conjunction	11977 Jan 14 11:45	2°♌28'29 0°05'04		11982 Feb 13 20:26	0°♊	
minimum elong	11977 Jan 14 11:57	2°♌28'48 0°05'49	retrograde	11982 Apr 19 00:25	22°♊07'00	
behind sun begin	11977 Jan 13 17:32	1°♌59'02	min. Earth dist.	11982 May 19 07:02	15°♊47'44	0.51861 AU
behind sun end	11977 Jan 15 06:21	2°♌58'34	greatest brilliancy	11982 May 25 20:50	13°♊19'50	-2.0m
desc. node	11977 Jan 23 17:02	8°♌25'30	opposition	11982 May 27 01:03	12°♊53'15	4°26'11
max. Earth dist.	11977 Jan 27 01:01	10°♌34'06 2.65384 AU	direct	11982 Jun 30 23:03	5°♊17'16	
	11977 Feb 26 12:15	0°♋	desc. node	11982 Sep 16 00:27	29°♊42'25	
morning rise	11977 Feb 28 18:52	1°♋26'29		11982 Sep 16 14:40	0°♄	
	11977 Apr 15 05:34	0°♃		11982 Nov 11 04:20	0°♌	
	11977 Jun 02 15:29	0°♄		11983 Jan 01 01:09	0°♋	
	11977 Jul 22 05:04	0°♌		11983 Feb 18 08:51	0°♃	
	11977 Sep 13 03:40	0°♄	evening set	11983 Mar 17 23:58	17°♃49'39	
retrograde	11977 Dec 04 17:32	28°♄11'44		11983 Apr 05 09:39	0°♄	
opposition	11978 Jan 04 15:27	22°♄44'38 -1°39'01	max. Earth dist.	11983 Apr 06 14:44	0°♄48'36	2.57960 AU
greatest brilliancy	11978 Jan 05 04:20	22°♄35'09 -2.8m				
min. Earth dist.	11978 Jan 11 09:52	20°♄45'16 0.39811 AU	conjunction	11983 May 03 16:35	19°♄12'26 -1°07'33	
asc. node	11978 Jan 27 21:15	17°♄04'22	minimum elong	11983 May 03 17:14	19°♄13'35 1°08'07	
direct	11978 Feb 06 15:54	16°♄24'26		11983 May 19 04:39	0°♌	
	11978 Mar 26 04:54	0°♌	morning rise	11983 Jun 23 07:37	25°♌09'37	
	11978 May 14 22:35	0°♌		11983 Jun 29 22:11	0°♄	
	11978 Jun 27 09:53	0°♄		11983 Aug 08 23:00	0°♌	
	11978 Aug 09 09:08	0°♌		11983 Sep 16 20:28	0°♌	
	11978 Sep 22 07:49	0°♊	asc. node	11983 Sep 19 11:25	2°♌02'27	
	11978 Nov 06 15:56	0°♄		11983 Oct 25 08:50	0°♄	
desc. node	11978 Dec 11 13:16	22°♄32'31		11983 Dec 03 11:32	0°♌	
	11978 Dec 23 05:10	0°♌		11984 Jan 13 12:32	0°♊	
evening set	11979 Jan 05 21:28	8°♌42'56		11984 Feb 27 22:10	0°♄	
	11979 Feb 08 10:38	0°♋		11984 Apr 29 15:03	0°♌	
			retrograde	11984 May 27 16:43	4°♌39'25	
conjunction	11979 Feb 19 19:06	7°♋11'34 -0°35'58		11984 Jun 22 21:41	30°♋♄	
minimum elong	11979 Feb 19 18:08	7°♋10'03 0°35'35	min. Earth dist.	11984 Jul 02 13:27	26°♄25'03	0.63026 AU
max. Earth dist.	11979 Feb 18 16:56	6°♋30'07 2.68372 AU	opposition	11984 Jul 06 23:23	24°♄39'59	1°02'44
	11979 Mar 27 16:47	0°♃	greatest brilliancy	11984 Jul 06 19:32	24°♄43'49	-1.5m

desc. node	11984 Aug 03 08:06	16°♄29'25			11989 Sep 30 20:49	0°♍	
direct	11984 Aug 14 16:27	15°♄40'10			11989 Nov 10 10:42	0°♊	
	11984 Oct 10 11:09	0°♊					
	11984 Dec 09 05:58	0°♋		conjunction	11989 Nov 12 00:39	1°♊08'24	1°01'13
	11985 Jan 29 01:20	0°♌		minimum elong	11989 Nov 12 02:16	1°♊11'18	1°01'53
	11985 Mar 16 17:55	0°♍		max. Earth dist.	11989 Dec 20 16:27	28°♊19'57	2.52178 AU
evening set	11985 Apr 28 01:39	29°♍04'30			11989 Dec 23 02:47	0°♎	
	11985 Apr 29 08:58	0°♎		morning rise	11990 Jan 06 20:17	10°♎00'13	
max. Earth dist.	11985 May 11 20:09	8°♎54'54	2.45507 AU		11990 Feb 06 01:36	0°♏	
	11985 Jun 09 13:10	0°♏		desc. node	11990 Mar 25 20:50	0°♋15'58	
					11990 Mar 25 10:28	0°♋	
conjunction	11985 Jun 22 04:00	9°♏29'36	-0°30'35		11990 May 14 22:26	0°♌	
minimum elong	11985 Jun 22 06:03	9°♏33'30	0°31'23		11990 Jul 11 17:03	0°♍	
	11985 Jul 18 21:46	0°♎		retrograde	11990 Sep 13 07:23	17°♍21'58	
asc. node	11985 Aug 06 01:31	14°♎09'43		opposition	11990 Oct 20 15:52	9°♍10'40	-5°07'24
	11985 Aug 26 04:28	0°♎		greatest brilliancy	11990 Oct 21 21:27	8°♍42'47	-1.7m
morning rise	11985 Aug 27 07:53	0°♎54'06		min. Earth dist.	11990 Oct 27 13:27	6°♍34'57	0.58445 AU
	11985 Oct 03 05:14	0°♏			11990 Nov 21 07:01	30°♋♌	
	11985 Nov 10 21:17	0°♍		direct	11990 Nov 30 02:38	29°♌28'08	
	11985 Dec 21 02:58	0°♊			11990 Dec 09 04:04	0°♋	
	11986 Feb 02 00:07	0°♎			11991 Feb 20 01:00	0°♎	
	11986 Mar 21 08:16	0°♏		asc. node	11991 Mar 29 03:58	24°♎20'42	
	11986 May 20 02:18	0°♋			11991 Apr 06 03:57	0°♏	
desc. node	11986 Jun 21 11:26	8°♋26'52			11991 May 16 13:41	0°♎	
retrograde	11986 Jul 01 04:43	9°♋00'58			11991 Jun 24 07:23	0°♎	
	11986 Aug 08 20:16	30°♋♏			11991 Aug 01 23:13	0°♏	
opposition	11986 Aug 10 20:11	29°♏12'28	-1°44'56		11991 Sep 10 14:47	0°♍	
min. Earth dist.	11986 Aug 10 04:30	29°♏28'02	0.68159 AU		11991 Oct 21 22:36	0°♊	
greatest brilliancy	11986 Aug 10 18:17	29°♏14'21	-1.3m	evening set	11991 Nov 08 21:04	12°♊35'29	
direct	11986 Sep 20 17:46	19°♏27'45			11991 Dec 04 06:13	0°♎	
	11986 Nov 07 01:39	0°♋					
	11987 Jan 06 21:11	0°♌		conjunction	11991 Dec 30 20:49	17°♎47'18	0°22'31
	11987 Feb 24 20:29	0°♍		minimum elong	11991 Dec 30 21:43	17°♎48'48	0°23'20
	11987 Apr 10 00:08	0°♎			11992 Jan 18 11:49	0°♏	
	11987 May 21 01:50	0°♏		max. Earth dist.	11992 Jan 18 13:52	0°♏03'21	2.62704 AU
asc. node	11987 Jun 23 21:12	25°♏54'11		desc. node	11992 Feb 10 10:07	14°♏48'03	
evening set	11987 Jun 24 14:34	26°♏27'58		morning rise	11992 Feb 15 22:52	18°♏20'17	
	11987 Jun 29 03:13	0°♎			11992 Mar 05 07:49	0°♋	
	11987 Aug 06 03:20	0°♎			11992 Apr 22 11:08	0°♌	
					11992 Jun 11 02:07	0°♋	
conjunction	11987 Sep 03 05:29	22°♎16'19	0°46'47		11992 Aug 02 20:07	0°♎	
minimum elong	11987 Sep 03 01:29	22°♎08'25	0°46'33		11992 Oct 10 07:56	0°♏	
	11987 Sep 13 00:42	0°♏		retrograde	11992 Nov 05 23:39	3°♏55'31	
	11987 Oct 21 16:33	0°♍			11992 Dec 01 07:39	30°♋♎	
max. Earth dist.	11987 Oct 23 10:11	1°♍19'21	2.38185 AU	opposition	11992 Dec 09 02:41	27°♎33'24	-3°53'30
morning rise	11987 Nov 13 21:21	17°♍28'45		greatest brilliancy	11992 Dec 10 11:44	27°♎06'13	-2.4m
	11987 Nov 30 21:51	0°♊		min. Earth dist.	11992 Dec 17 19:40	24°♎42'49	0.44948 AU
	11988 Jan 12 08:43	0°♎		direct	11993 Jan 14 03:42	19°♎47'47	
	11988 Feb 26 16:30	0°♏		asc. node	11993 Feb 13 12:10	25°♎45'41	
	11988 Apr 16 03:59	0°♋			11993 Feb 23 20:42	0°♏	
desc. node	11988 May 08 06:55	12°♋09'50			11993 Apr 16 04:31	0°♎	
	11988 Jun 15 02:15	0°♌			11993 May 28 11:51	0°♎	
retrograde	11988 Aug 03 23:57	11°♌38'10			11993 Jul 08 07:29	0°♏	
opposition	11988 Sep 12 17:16	2°♌25'13	-3°53'02		11993 Aug 18 16:48	0°♍	
greatest brilliancy	11988 Sep 13 02:14	2°♌16'27	-1.3m		11993 Sep 30 12:48	0°♊	
min. Earth dist.	11988 Sep 15 21:30	1°♌10'38	0.66643 AU		11993 Nov 14 01:56	0°♎	
	11988 Sep 18 22:32	30°♋♋		evening set	11993 Dec 22 01:37	24°♎48'32	
direct	11988 Oct 24 07:17	22°♋22'19		desc. node	11993 Dec 28 02:57	28°♎42'51	
	11988 Dec 01 17:36	0°♌			11993 Dec 30 02:54	0°♏	
	11989 Jan 31 09:19	0°♍					
	11989 Mar 18 21:37	0°♎		conjunction	11994 Feb 06 02:53	24°♏16'43	-0°21'16
	11989 Apr 29 14:34	0°♏		minimum elong	11994 Feb 06 02:14	24°♏15'42	0°20'43
asc. node	11989 May 10 22:13	8°♏31'11		max. Earth dist.	11994 Feb 10 04:29	26°♏51'45	2.67872 AU
	11989 Jun 07 19:17	0°♎			11994 Feb 15 03:04	0°♋	
	11989 Jul 15 20:52	0°♎		morning rise	11994 Mar 21 18:40	21°♋57'19	
	11989 Aug 22 21:57	0°♏			11994 Apr 03 11:32	0°♌	
evening set	11989 Sep 08 04:06	12°♏38'30			11994 May 20 17:10	0°♍	

	11994 Jul 06 16:24	0°♊			11999 Oct 25 07:10	0°♐	
	11994 Aug 22 13:48	0°♋			11999 Dec 18 21:52	0°♏	
	11994 Oct 09 06:19	0°♌			12000 Feb 06 10:59	0°♑	
	11994 Nov 30 23:54	0°♍			12000 Mar 23 19:16	0°♒	
asc. node	11995 Jan 01 16:17	12°♍41'24		evening set	12000 Apr 10 12:26	11°♒57'57	
retrograde	11995 Jan 24 19:35	16°♍03'32		max. Earth dist.	12000 Apr 25 07:42	22°♒10'52	2.50816 AU
min. Earth dist.	11995 Feb 22 06:59	11°♍23'51	0.36442 AU		12000 May 06 11:04	0°♊	
opposition	11995 Feb 23 14:31	11°♍02'58	3°57'49				
greatest brilliancy	11995 Feb 23 07:21	11°♍07'43	-3.0m	conjunction	12000 May 31 08:08	17°♊51'49	-0°51'13
direct	11995 Mar 24 19:02	6°♍12'11		minimum elong	12000 May 31 10:07	17°♊55'25	0°51'59
	11995 Jun 01 23:17	0°♎			12000 Jun 16 19:49	0°♋	
	11995 Jul 22 00:43	0°♌			12000 Jul 26 10:06	0°♌	
	11995 Sep 07 07:28	0°♍		morning rise	12000 Jul 29 04:19	2°♌07'44	
	11995 Oct 24 13:56	0°♎		asc. node	12000 Aug 22 21:29	21°♌21'51	
desc. node	11995 Nov 15 03:05	13°♎35'06			12000 Sep 02 21:39	0°♍	
	11995 Dec 11 06:16	0°♐			12000 Oct 11 01:33	0°♎	
evening set	11996 Jan 28 00:44	29°♐59'39			12000 Nov 18 19:39	0°♏	
	11996 Jan 28 00:58	0°♑			12000 Dec 29 04:40	0°♍	
max. Earth dist.	11996 Mar 03 04:14	22°♑14'20	2.67483 AU		12001 Feb 10 13:45	0°♎	
					12001 Mar 31 23:33	0°♐	
conjunction	11996 Mar 12 02:33	27°♑56'06	-0°55'04	retrograde	12001 Jun 18 00:06	26°♐19'52	
minimum elong	11996 Mar 12 01:28	27°♑54'22	0°54'57	desc. node	12001 Jul 08 00:10	23°♐40'03	
	11996 Mar 15 08:02	0°♑		min. Earth dist.	12001 Jul 26 12:42	17°♐14'35	0.66937 AU
morning rise	11996 Apr 24 16:24	26°♑06'42		opposition	12001 Jul 28 16:16	16°♐23'17	-0°44'51
	11996 Apr 30 14:39	0°♒		greatest brilliancy	12001 Jul 28 14:28	16°♐25'04	-1.4m
	11996 Jun 14 13:23	0°♊		direct	12001 Sep 06 21:53	6°♐52'43	
	11996 Jul 28 01:39	0°♋			12001 Nov 21 23:01	0°♑	
	11996 Sep 08 05:53	0°♌			12002 Jan 15 18:21	0°♑	
	11996 Oct 19 11:12	0°♍			12002 Mar 04 13:05	0°♒	
asc. node	11996 Nov 18 13:56	21°♍57'50			12002 Apr 17 09:43	0°♊	
	11996 Nov 29 17:51	0°♎			12002 May 28 11:21	0°♋	
	11997 Jan 12 16:15	0°♏		evening set	12002 May 30 11:32	1°♋30'30	
	11997 Mar 20 00:29	0°♍		max. Earth dist.	12002 Jun 29 05:27	24°♋15'04	2.37503 AU
retrograde	11997 Mar 31 04:36	0°♍53'47			12002 Jul 06 14:54	0°♌	
	11997 Apr 11 02:10	30°♌		asc. node	12002 Jul 10 13:21	3°♌04'24	
min. Earth dist.	11997 Apr 27 23:45	25°♌31'08	0.46390 AU				
greatest brilliancy	11997 May 04 19:28	23°♌07'45	-2.3m	conjunction	12002 Aug 03 04:17	21°♌39'46	0°16'56
opposition	11997 May 06 10:10	22°♌33'30	5°40'58	minimum elong	12002 Aug 03 02:33	21°♌36'22	0°16'19
direct	11997 Jun 08 09:58	15°♌47'28			12002 Aug 13 16:57	0°♍	
	11997 Aug 01 11:25	0°♍			12002 Sep 20 14:50	0°♎	
	11997 Sep 29 00:02	0°♎		morning rise	12002 Oct 16 06:16	20°♎01'19	
desc. node	11997 Oct 02 10:35	1°♎55'53			12002 Oct 29 05:44	0°♏	
	11997 Nov 19 18:45	0°♐			12002 Dec 08 09:32	0°♍	
	11998 Jan 08 08:47	0°♑			12003 Jan 19 21:09	0°♎	
	11998 Feb 25 05:45	0°♑			12003 Mar 06 15:17	0°♐	
evening set	11998 Mar 03 13:13	4°♑02'33			12003 Apr 27 00:26	0°♑	
max. Earth dist.	11998 Mar 27 03:11	19°♑20'46	2.61664 AU	desc. node	12003 May 25 22:54	14°♑10'56	
	11998 Apr 12 05:52	0°♒		retrograde	12003 Jul 22 02:48	29°♑02'47	
				opposition	12003 Aug 31 08:36	19°♑33'15	-3°08'21
conjunction	11998 Apr 17 18:13	3°♒41'03	-1°09'44	greatest brilliancy	12003 Aug 31 11:40	19°♑30'15	-1.3m
minimum elong	11998 Apr 17 18:06	3°♒40'52	1°10'08	min. Earth dist.	12003 Sep 02 00:29	18°♑53'57	0.68052 AU
	11998 May 26 06:17	0°♊		direct	12003 Oct 11 20:52	9°♑34'12	
morning rise	11998 Jun 04 03:55	6°♊14'14			12003 Dec 19 19:10	0°♑	
	11998 Jul 07 08:26	0°♋			12004 Feb 10 23:36	0°♒	
	11998 Aug 16 19:03	0°♌			12004 Mar 27 04:57	0°♊	
	11998 Sep 25 01:45	0°♍			12004 May 07 13:02	0°♋	
asc. node	11998 Oct 06 07:01	8°♍39'28		asc. node	12004 May 27 13:25	15°♋12'30	
	11998 Nov 02 22:35	0°♎			12004 Jun 15 14:59	0°♌	
	11998 Dec 12 11:38	0°♏			12004 Jul 23 14:48	0°♍	
	11999 Jan 23 10:10	0°♍		evening set	12004 Aug 08 23:58	12°♍59'37	
	11999 Mar 13 02:33	0°♎			12004 Aug 30 13:13	0°♎	
retrograde	11999 May 14 06:15	19°♎46'19			12004 Oct 08 08:07	0°♏	
min. Earth dist.	11999 Jun 17 03:14	12°♎11'28	0.59311 AU				
opposition	11999 Jun 22 23:06	9°♎54'12	2°18'34	conjunction	12004 Oct 18 11:38	7°♎40'10	1°06'19
greatest brilliancy	11999 Jun 22 11:49	10°♎05'16	-1.7m	minimum elong	12004 Oct 18 11:28	7°♎39'52	1°06'46
direct	11999 Jul 30 09:16	1°♎21'05			12004 Nov 17 17:18	0°♍	
desc. node	11999 Aug 20 19:25	3°♎53'37		max. Earth dist.	12004 Dec 05 04:41	12°♎31'47	2.46834 AU

morning rise	12004 Dec 19 00:31	22°♂14'55	asc. node	12010 Jan 18 06:42	10°♂23'51	
	12004 Dec 30 05:32	0°♂	opposition	12010 Jan 21 15:56	9°♂28'07	0°15'27
	12005 Feb 13 04:53	0°♂	greatest brilliancy	12010 Jan 21 16:52	9°♂27'28	-3.0m
	12005 Apr 02 01:51	0°♂	min. Earth dist.	12010 Jan 26 02:11	8°♂14'37	0.37723 AU
desc. node	12005 Apr 11 14:42	5°♂42'55	direct	12010 Feb 21 20:29	3°♂54'11	
	12005 May 24 12:28	0°♂		12010 May 03 14:42	0°♂	
	12005 Aug 04 04:28	0°♂		12010 Jun 19 10:26	0°♂	
retrograde	12005 Aug 27 12:32	2°♂55'21		12010 Aug 02 20:25	0°♂	
	12005 Sep 18 01:54	30°♂♂		12010 Sep 16 15:33	0°♂	
opposition	12005 Oct 05 00:13	24°♂15'39		12010 Nov 01 12:36	0°♂	
greatest brilliancy	12005 Oct 05 21:17	23°♂55'24		12010 Dec 01 16:28	19°♂21'27	
min. Earth dist.	12005 Oct 10 11:43	22°♂09'20		12010 Dec 18 09:43	0°♂	
direct	12005 Nov 15 04:17	14°♂18'15	evening set	12011 Jan 14 01:32	16°♂53'28	
	12006 Jan 10 12:37	0°♂		12011 Feb 03 19:01	0°♂	
	12006 Mar 03 14:17	0°♂	max. Earth dist.	12011 Feb 23 16:22	12°♂35'45	2.68281 AU
asc. node	12006 Apr 14 18:38	29°♂19'42				
	12006 Apr 15 16:40	0°♂	conjunction	12011 Feb 27 13:13	15°♂02'59	-0°43'43
	12006 May 25 09:47	0°♂	minimum elong	12011 Feb 27 12:09	15°♂01'17	0°43'26
	12006 Jul 02 18:15	0°♂		12011 Mar 23 00:54	0°♂	
	12006 Aug 10 01:55	0°♂	morning rise	12011 Apr 11 18:46	12°♂39'11	
	12006 Sep 18 08:47	0°♂		12011 May 08 14:21	0°♂	
evening set	12006 Oct 18 15:06	22°♂18'21		12011 Jun 23 03:52	0°♂	
	12006 Oct 29 07:36	0°♂		12011 Aug 06 14:56	0°♂	
	12006 Dec 11 07:16	0°♂		12011 Sep 19 02:22	0°♂	
				12011 Nov 01 02:42	0°♂	
conjunction	12006 Dec 13 17:25	1°♂38'55	asc. node	12011 Dec 06 08:30	24°♂00'45	
minimum elong	12006 Dec 13 19:00	1°♂41'34		12011 Dec 15 12:47	0°♂	
max. Earth dist.	12007 Jan 08 13:12	18°♂57'58		12012 Feb 09 22:03	0°♂	
	12007 Jan 25 08:17	0°♂	retrograde	12012 Mar 09 00:26	5°♂19'15	
morning rise	12007 Feb 01 09:30	4°♂34'56	min. Earth dist.	12012 Apr 03 22:48	0°♂47'43	0.41097 AU
desc. node	12007 Feb 27 02:45	21°♂04'19		12012 Apr 06 12:15	30°♂♂	
	12007 Mar 13 06:23	0°♂		12012 Apr 10 01:13	28°♂52'39	-2.7m
	12007 May 01 00:27	0°♂	opposition	12012 Apr 11 18:00	28°♂20'19	6°21'24
	12007 Jun 21 11:30	0°♂	direct	12012 May 12 13:32	22°♂33'06	
	12007 Aug 19 22:17	0°♂		12012 Jun 18 01:41	0°♂	
retrograde	12007 Oct 14 01:22	13°♂54'59		12012 Aug 18 14:24	0°♂	
opposition	12007 Nov 18 02:49	6°♂42'32		12012 Oct 09 02:23	0°♂	
greatest brilliancy	12007 Nov 19 16:40	6°♂08'56		12012 Oct 18 20:57	5°♂51'08	
min. Earth dist.	12007 Nov 26 16:35	3°♂41'06	desc. node	12012 Nov 27 17:45	0°♂	
	12007 Dec 09 02:28	30°♂♂		12013 Jan 15 10:36	0°♂	
direct	12007 Dec 26 10:11	27°♂53'31	evening set	12013 Feb 17 14:06	20°♂48'50	
	12008 Jan 13 07:50	0°♂		12013 Mar 04 00:13	0°♂	
asc. node	12008 Mar 02 01:10	21°♂03'38	max. Earth dist.	12013 Mar 17 08:59	8°♂35'45	2.64573 AU
	12008 Mar 16 17:10	0°♂				
	12008 Apr 29 04:20	0°♂	conjunction	12013 Apr 02 23:09	19°♂23'09	-1°07'02
	12008 Jun 08 06:51	0°♂	minimum elong	12013 Apr 02 22:28	19°♂22'03	1°07'14
	12008 Jul 17 21:02	0°♂		12013 Apr 19 01:36	0°♂	
	12008 Aug 27 08:08	0°♂	morning rise	12013 May 18 06:40	19°♂38'19	
	12008 Oct 08 09:50	0°♂		12013 Jun 02 09:10	0°♂	
	12008 Nov 21 08:21	0°♂		12013 Jul 14 22:18	0°♂	
evening set	12008 Dec 06 03:10	9°♂49'49		12013 Aug 24 21:44	0°♂	
	12009 Jan 05 23:31	0°♂		12013 Oct 03 17:34	0°♂	
desc. node	12009 Jan 13 18:05	5°♂01'17	asc. node	12013 Oct 23 02:01	14°♂43'58	
				12013 Nov 12 04:00	0°♂	
conjunction	12009 Jan 22 22:10	10°♂55'06		12013 Dec 22 12:15	0°♂	
minimum elong	12009 Jan 22 22:02	10°♂54'54		12014 Feb 04 09:04	0°♂	
behind sun begin	12009 Jan 22 03:27	10°♂25'06		12014 Apr 06 22:16	0°♂	
behind sun end	12009 Jan 23 16:37	11°♂24'41	retrograde	12014 Apr 28 14:23	3°♂05'40	
max. Earth dist.	12009 Feb 01 08:08	16°♂56'56		12014 May 19 06:53	30°♂♂	
	12009 Feb 21 20:08	0°♂	min. Earth dist.	12014 May 30 05:40	26°♂17'25	0.54707 AU
morning rise	12009 Mar 08 11:50	9°♂16'52	greatest brilliancy	12014 Jun 05 11:08	23°♂54'07	-1.9m
	12009 Apr 10 09:10	0°♂	opposition	12014 Jun 06 08:46	23°♂33'20	3°39'30
	12009 May 28 07:05	0°♂	direct	12014 Jul 12 05:31	15°♂34'37	
	12009 Jul 15 17:08	0°♂	desc. node	12014 Sep 06 05:41	29°♂58'51	
	12009 Sep 03 15:01	0°♂		12014 Sep 06 06:45	0°♂	
	12009 Oct 29 20:28	0°♂		12014 Nov 04 22:54	0°♂	
retrograde	12009 Dec 22 14:05	14°♂31'05		12014 Dec 26 21:25	0°♂	

	12015 Feb 13 14:38	0°♄		minimum elong	12019 Sep 20 12:48	9°♄41'04	0°58'28
evening set	12015 Mar 26 12:57	26°♄31'29			12019 Oct 16 20:23	0°♄	
	12015 Mar 31 18:13	0°♄		max. Earth dist.	12019 Nov 13 06:01	20°♄35'15	2.41119 AU
max. Earth dist.	12015 Apr 13 04:32	8°♄21'40	2.55596 AU		12019 Nov 26 02:00	0°♄	
				morning rise	12019 Nov 28 00:07	1°♄23'48	
conjunction	12015 May 13 10:06	29°♄13'43	-1°03'39		12020 Jan 07 11:40	0°♄	
minimum elong	12015 May 13 11:16	29°♄15'47	1°04'19		12020 Feb 21 14:05	0°♄	
	12015 May 14 12:25	0°♄			12020 Apr 10 06:23	0°♄	
	12015 Jun 25 02:55	0°♄		desc. node	12020 Apr 28 07:27	10°♄20'39	
morning rise	12015 Jul 05 11:55	7°♄41'48			12020 Jun 05 04:49	0°♄	
	12015 Aug 03 23:51	0°♄		retrograde	12020 Aug 12 05:41	19°♄30'12	
asc. node	12015 Sep 09 17:06	28°♄25'39		opposition	12020 Sep 20 14:04	10°♄27'44	-4°15'45
	12015 Sep 11 17:25	0°♄		greatest brilliancy	12020 Sep 21 03:01	10°♄15'07	-1.4m
	12015 Oct 20 01:58	0°♄		min. Earth dist.	12020 Sep 24 13:49	8°♄54'31	0.65439 AU
	12015 Nov 28 00:16	0°♄		direct	12020 Nov 01 02:42	0°♄24'56	
	12016 Jan 07 16:52	0°♄			12021 Jan 24 08:08	0°♄	
	12016 Feb 21 01:09	0°♄			12021 Mar 13 05:15	0°♄	
	12016 Apr 15 03:25	0°♄			12021 Apr 24 07:54	0°♄	
retrograde	12016 Jun 04 13:51	13°♄05'30		asc. node	12021 May 01 07:25	5°♄12'35	
min. Earth dist.	12016 Jul 11 10:47	4°♄31'53	0.64706 AU		12021 Jun 02 16:18	0°♄	
opposition	12016 Jul 15 01:48	3°♄05'25	0°21'20		12021 Jul 10 19:49	0°♄	
greatest brilliancy	12016 Jul 15 00:46	3°♄06'26	-1.5m		12021 Aug 17 22:31	0°♄	
	12016 Jul 23 02:40	30°♄		evening set	12021 Sep 23 19:58	28°♄22'59	
desc. node	12016 Jul 24 12:50	29°♄29'19			12021 Sep 25 23:21	0°♄	
direct	12016 Aug 23 09:47	23°♄53'20			12021 Nov 05 15:28	0°♄	
	12016 Sep 27 05:41	0°♄					
	12016 Dec 02 22:05	0°♄		conjunction	12021 Nov 24 06:52	13°♄16'35	0°54'37
	12017 Jan 23 20:55	0°♄		minimum elong	12021 Nov 24 08:45	13°♄19'53	0°55'21
	12017 Mar 11 22:16	0°♄			12021 Dec 18 09:00	0°♄	
	12017 Apr 24 15:49	0°♄		max. Earth dist.	12021 Dec 28 02:17	6°♄36'56	2.54883 AU
evening set	12017 May 08 21:35	10°♄11'46		morning rise	12022 Jan 16 13:21	19°♄39'04	
max. Earth dist.	12017 May 24 01:37	21°♄16'17	2.42513 AU		12022 Feb 01 07:16	0°♄	
	12017 Jun 04 19:34	0°♄		desc. node	12022 Mar 15 21:39	27°♄11'02	
					12022 Mar 20 10:10	0°♄	
conjunction	12017 Jul 06 00:55	23°♄44'58	-0°15'07		12022 May 09 02:27	0°♄	
minimum elong	12017 Jul 06 02:15	23°♄47'31	0°15'54		12022 Jul 02 16:06	0°♄	
behind sun begin	12017 Jul 05 20:59	23°♄37'22		retrograde	12022 Sep 23 16:06	26°♄43'44	
behind sun end	12017 Jul 06 07:31	23°♄57'40		opposition	12022 Oct 30 07:13	18°♄50'47	-5°10'17
	12017 Jul 14 02:38	0°♄		greatest brilliancy	12022 Oct 31 16:50	18°♄19'35	-1.8m
asc. node	12017 Jul 27 09:13	10°♄21'34		min. Earth dist.	12022 Nov 06 21:32	16°♄02'17	0.55873 AU
	12017 Aug 21 07:36	0°♄		direct	12022 Dec 09 03:40	9°♄22'09	
morning rise	12017 Sep 14 05:01	18°♄54'03			12023 Feb 10 21:30	0°♄	
	12017 Sep 28 06:44	0°♄		asc. node	12023 Mar 19 14:49	22°♄33'12	
	12017 Nov 05 21:21	0°♄			12023 Mar 30 12:29	0°♄	
	12017 Dec 16 00:52	0°♄			12023 May 10 15:38	0°♄	
	12018 Jan 27 15:58	0°♄			12023 Jun 18 17:47	0°♄	
	12018 Mar 15 04:36	0°♄			12023 Jul 27 15:17	0°♄	
	12018 May 09 06:17	0°♄			12023 Sep 05 11:47	0°♄	
desc. node	12018 Jun 11 13:36	12°♄37'34			12023 Oct 17 00:17	0°♄	
retrograde	12018 Jul 08 18:05	16°♄39'13		evening set	12023 Nov 19 16:17	23°♄20'51	
opposition	12018 Aug 18 07:29	6°♄56'27	-2°17'33		12023 Nov 29 11:43	0°♄	
greatest brilliancy	12018 Aug 18 06:40	6°♄57'16	-1.3m				
min. Earth dist.	12018 Aug 18 11:14	6°♄52'44	0.68415 AU	conjunction	12024 Jan 08 22:01	26°♄48'26	0°12'19
	12018 Sep 07 01:44	30°♄		minimum elong	12024 Jan 08 22:30	26°♄49'14	0°13'06
direct	12018 Sep 28 12:03	27°♄05'35		behind sun begin	12024 Jan 08 11:06	26°♄30'38	
	12018 Oct 21 16:51	0°♄		behind sun end	12024 Jan 09 09:55	27°♄07'50	
	12018 Dec 31 09:07	0°♄			12024 Jan 13 19:38	0°♄	
	12019 Feb 19 12:33	0°♄		max. Earth dist.	12024 Jan 24 03:03	6°♄40'50	2.64287 AU
	12019 Apr 05 00:41	0°♄		desc. node	12024 Jan 31 10:44	11°♄23'47	
	12019 May 16 04:48	0°♄		morning rise	12024 Feb 23 22:16	26°♄23'44	
asc. node	12019 Jun 14 05:07	22°♄09'52			12024 Feb 29 14:44	0°♄	
	12019 Jun 24 06:38	0°♄			12024 Apr 17 11:21	0°♄	
evening set	12019 Jul 10 10:49	12°♄42'35			12024 Jun 05 08:10	0°♄	
	12019 Aug 01 06:45	0°♄			12024 Jul 26 00:41	0°♄	
	12019 Sep 08 04:09	0°♄			12024 Sep 20 15:25	0°♄	
				retrograde	12024 Nov 21 13:59	17°♄30'20	
conjunction	12019 Sep 20 16:01	9°♄47'21	0°58'26	opposition	12024 Dec 23 10:22	11°♄39'02	-2°47'24

greatest brilliancy	12024 Dec 24 09:50	11°☿20'48	-2.6m			12030 Feb 20 12:47	0°♊	
min. Earth dist.	12024 Dec 31 09:10	9°☿11'28	0.41965 AU	evening set		12030 Mar 11 16:53	12°♊19'03	
direct	12025 Jan 26 21:41	4°☿38'51		max. Earth dist.		12030 Apr 02 01:27	26°♊19'06	2.59720 AU
asc. node	12025 Feb 03 21:02	5°☿05'54				12030 Apr 07 14:22	0°♋	
	12025 Apr 05 12:35	0°♌						
	12025 May 20 17:05	0°♍		conjunction		12030 Apr 26 15:17	12°♋49'22	-1°09'09
	12025 Jul 01 17:42	0°♎		minimum elong		12030 Apr 26 15:35	12°♋49'53	1°09'40
	12025 Aug 12 20:31	0°♏				12030 May 21 12:52	0°♐	
	12025 Sep 25 05:02	0°♑		morning rise		12030 Jun 14 15:43	17°♐05'31	
	12025 Nov 09 02:51	0°♒				12030 Jul 02 11:14	0°♑	
desc. node	12025 Dec 18 05:23	25°♒23'41				12030 Aug 11 17:05	0°♒	
	12025 Dec 25 09:32	0°♓				12030 Sep 19 19:00	0°♓	
evening set	12025 Dec 30 14:46	3°♓20'33		asc. node		12030 Sep 26 13:42	5°♓15'26	
	12026 Feb 10 12:06	0°♈				12030 Oct 28 10:40	0°♈	
						12030 Dec 06 16:27	0°♉	
conjunction	12026 Feb 13 23:12	2°♈11'44	-0°30'07			12031 Jan 16 23:26	0°♊	
minimum elong	12026 Feb 13 22:21	2°♈10'23	0°29'38			12031 Mar 04 06:27	0°♋	
max. Earth dist.	12026 Feb 15 04:43	2°♈58'30	2.68256 AU	retrograde		12031 May 22 14:23	28°♋56'11	
morning rise	12026 Mar 29 08:11	29°♈42'45		min. Earth dist.		12031 Jun 26 14:28	20°♋59'09	0.61472 AU
	12026 Mar 29 19:02	0°♊		opposition		12031 Jul 01 16:20	18°♋58'47	1°33'44
	12026 May 15 18:10	0°♋		greatest brilliancy		12031 Jul 01 09:41	19°♋05'20	-1.6m
	12026 Jul 01 03:20	0°♌		direct		12031 Aug 08 20:51	10°♋10'12	
	12026 Aug 15 22:59	0°♍		desc. node		12031 Aug 10 23:01	10°♋11'47	
	12026 Sep 30 14:08	0°♎				12031 Oct 16 21:43	0°♏	
	12026 Nov 16 13:05	0°♏				12031 Dec 13 04:14	0°♑	
asc. node	12026 Dec 22 23:56	20°♏31'26				12032 Feb 01 11:06	0°♒	
	12027 Jan 14 10:17	0°♐				12032 Mar 19 01:25	0°♓	
retrograde	12027 Feb 11 03:39	4°♐59'20		evening set		12032 Apr 20 05:28	21°♐54'34	
min. Earth dist.	12027 Mar 09 16:52	0°♐41'25	0.37304 AU			12032 May 01 18:09	0°♑	
	12027 Mar 12 04:31	30°♑♎		max. Earth dist.		12032 May 04 04:10	1°♑42'44	2.47929 AU
greatest brilliancy	12027 Mar 13 04:04	29°♑43'32	-3.0m					
opposition	12027 Mar 14 02:45	29°♑27'40	5°29'23	conjunction		12032 Jun 12 05:28	0°♑07'26	-0°40'29
direct	12027 Apr 12 10:24	24°♑29'02		minimum elong		12032 Jun 12 07:38	0°♑11'28	0°41'17
	12027 May 12 15:45	0°♒				12032 Jun 12 01:29	0°♑	
	12027 Jul 12 21:20	0°♓				12032 Jul 21 13:18	0°♒	
	12027 Aug 31 15:48	0°♔		asc. node		12032 Aug 13 03:07	17°♒34'42	
	12027 Oct 19 00:40	0°♕		morning rise		12032 Aug 14 00:26	18°♒16'28	
desc. node	12027 Nov 05 08:01	10°♕45'26				12032 Aug 28 22:32	0°♓	
	12027 Dec 06 06:45	0°♖		greatest brilliancy		12032 Sep 24 08:36	20°♓49'45	1.2m
	12028 Jan 23 08:13	0°♗				12032 Oct 06 00:28	0°♈	
evening set	12028 Feb 04 20:42	7°♗52'22				12032 Nov 13 16:33	0°♉	
max. Earth dist.	12028 Mar 08 06:23	28°♗25'52	2.66689 AU			12032 Dec 23 22:12	0°♊	
	12028 Mar 10 17:14	0°♋				12033 Feb 04 21:31	0°♋	
						12033 Mar 24 19:34	0°♌	
conjunction	12028 Mar 19 21:37	5°♋53'34	-1°00'27			12033 May 29 07:25	0°♍	
minimum elong	12028 Mar 19 20:37	5°♋51'57	1°00'26	retrograde		12033 Jun 25 13:24	4°♋08'21	
	12028 Apr 25 22:05	0°♌		desc. node		12033 Jun 28 03:38	4°♋05'45	
morning rise	12028 May 02 21:42	4°♌37'06				12033 Jul 20 18:32	30°♌♓	
	12028 Jun 09 15:19	0°♐		min. Earth dist.		12033 Aug 03 21:47	24°♓47'39	0.67738 AU
	12028 Jul 22 18:54	0°♑		opposition		12033 Aug 05 05:59	24°♓15'40	-1°20'52
	12028 Sep 02 11:29	0°♒		greatest brilliancy		12033 Aug 05 03:42	24°♓17'56	-1.3m
	12028 Oct 13 02:14	0°♓		direct		12033 Sep 14 21:30	14°♓36'55	
asc. node	12028 Nov 08 22:13	19°♓58'38				12033 Nov 13 01:47	0°♈	
	12028 Nov 22 11:14	0°♈				12034 Jan 09 22:58	0°♊	
	12029 Jan 03 10:26	0°♉				12034 Feb 27 11:14	0°♋	
	12029 Feb 21 20:10	0°♊				12034 Apr 12 13:24	0°♌	
retrograde	12029 Apr 11 04:47	13°♊53'01				12034 May 23 16:18	0°♍	
min. Earth dist.	12029 May 10 09:18	7°♊58'25	0.49440 AU	evening set		12034 Jun 13 02:52	15°♍31'31	
greatest brilliancy	12029 May 17 03:24	5°♊30'05	-2.2m	asc. node		12034 Jun 30 21:37	29°♍17'40	
opposition	12029 May 18 12:42	4°♊59'25	5°00'21			12034 Jul 01 19:19	0°♎	
	12029 Jun 03 06:00	30°♌♓				12034 Aug 08 20:31	0°♏	
direct	12029 Jun 21 14:13	27°♌44'28						
	12029 Jul 11 04:09	0°♑		conjunction		12034 Aug 20 09:44	9°♏10'03	0°34'53
	12029 Sep 21 08:58	0°♒		minimum elong		12034 Aug 20 06:16	9°♏03'08	0°34'27
desc. node	12029 Sep 22 15:18	0°♒40'03		max. Earth dist.		12034 Sep 13 14:32	28°♏19'12	2.36444 AU
	12029 Nov 14 02:04	0°♓				12034 Sep 15 17:43	0°♈	
	12030 Jan 03 09:12	0°♈				12034 Oct 24 08:13	0°♉	

morning rise	12034 Nov 01 21:51	6°♍31'11	min. Earth dist.	12039 Dec 08 21:00	15°♊30'16	0.47478 AU
	12034 Dec 03 11:36	0°♊	direct	12040 Jan 06 05:19	10°♊12'54	
	12035 Jan 14 20:54	0°♊	asc. node	12040 Feb 21 11:13	22°♊51'25	
	12035 Mar 01 06:34	0°♊		12040 Mar 06 02:33	0°♊	
	12035 Apr 20 07:21	0°♊		12040 Apr 21 16:06	0°♊	
desc. node	12035 May 16 00:53	13°♊38'18		12040 Jun 01 19:00	0°♊	
	12035 Jun 23 13:21	0°♊		12040 Jul 11 23:05	0°♊	
retrograde	12035 Jul 29 23:39	6°♊42'53		12040 Aug 21 20:19	0°♊	
	12035 Sep 01 02:43	30°♊		12040 Oct 03 06:26	0°♊	
opposition	12035 Sep 07 23:01	27°♊22'01 -3°35'19		12040 Nov 16 11:30	0°♊	
greatest brilliancy	12035 Sep 08 05:07	27°♊16'02 -1.3m	evening set	12040 Dec 15 08:53	19°♊01'19	
min. Earth dist.	12035 Sep 10 10:34	26°♊23'33 0.67400 AU		12041 Jan 01 07:07	0°♊	
direct	12035 Oct 19 13:01	17°♊20'26	desc. node	12041 Jan 03 20:02	1°♊38'18	
	12035 Dec 10 02:09	0°♊				
	12036 Feb 04 21:15	0°♊	conjunction	12041 Jan 31 02:30	19°♊07'08 -0°14'41	
	12036 Mar 21 20:59	0°♊	minimum elong	12041 Jan 31 02:02	19°♊06'24 0°14'03	
	12036 May 02 11:16	0°♊	behind sun begin	12041 Jan 30 17:07	18°♊52'10	
asc. node	12036 May 17 22:18	11°♊40'42	behind sun end	12041 Jan 31 10:58	19°♊20'38	
	12036 Jun 10 15:28	0°♊	max. Earth dist.	12041 Feb 06 10:58	23°♊10'04 2.67370 AU	
greatest brilliancy	12036 Jul 15 03:58	27°♊12'28 1.2m		12041 Feb 17 04:56	0°♊	
	12036 Jul 18 16:32	0°♊	morning rise	12041 Mar 16 02:17	17°♊01'50	
	12036 Aug 25 16:00	0°♊		12041 Apr 05 15:00	0°♊	
evening set	12036 Aug 26 04:49	0°♊25'08		12041 May 23 03:22	0°♊	
	12036 Oct 03 12:05	0°♊		12041 Jul 09 16:23	0°♊	
				12041 Aug 26 16:23	0°♊	
conjunction	12036 Nov 01 19:04	21°♊52'23 1°04'36		12041 Oct 15 20:23	0°♊	
minimum elong	12036 Nov 01 20:10	21°♊54'24 1°05'13		12041 Dec 22 05:16	0°♊	
	12036 Nov 12 22:36	0°♊	asc. node	12042 Jan 08 16:48	2°♊14'29	
max. Earth dist.	12036 Dec 14 13:36	22°♊27'30 2.49848 AU	retrograde	12042 Jan 10 07:35	2°♊15'29	
	12036 Dec 25 11:18	0°♊		12042 Jan 29 08:49	30°♊	
morning rise	12036 Dec 29 23:45	3°♊05'41	opposition	12042 Feb 08 20:45	27°♊22'50 2°24'30	
	12037 Feb 08 08:40	0°♊	greatest brilliancy	12042 Feb 08 21:56	27°♊22'03 -3.1m	
	12037 Mar 27 20:26	0°♊	min. Earth dist.	12042 Feb 10 06:47	27°♊00'19 0.36568 AU	
desc. node	12037 Apr 01 15:04	2°♊54'51	direct	12042 Mar 10 14:02	22°♊21'43	
	12037 May 17 23:26	0°♊		12042 Apr 14 20:36	0°♊	
	12037 Jul 18 00:55	0°♊		12042 Jun 09 22:16	0°♊	
retrograde	12037 Sep 05 20:13	11°♊29'28		12042 Jul 26 17:49	0°♊	
opposition	12037 Oct 13 17:43	3°♊04'34 -5°00'38		12042 Sep 10 16:57	0°♊	
greatest brilliancy	12037 Oct 14 19:31	2°♊40'00 -1.6m		12042 Oct 27 06:12	0°♊	
min. Earth dist.	12037 Oct 20 00:17	0°♊41'28 0.60353 AU	desc. node	12042 Nov 21 18:56	16°♊14'41	
	12037 Oct 21 20:57	30°♊		12042 Dec 13 12:59	0°♊	
direct	12037 Nov 23 13:19	23°♊14'07	evening set	12043 Jan 22 02:16	24°♊55'55	
	12037 Dec 28 04:35	0°♊		12043 Jan 30 03:07	0°♊	
	12038 Feb 24 14:45	0°♊	max. Earth dist.	12043 Feb 28 15:44	18°♊41'14 2.67950 AU	
asc. node	12038 Apr 05 02:59	26°♊38'49				
	12038 Apr 09 19:00	0°♊	conjunction	12043 Mar 07 06:55	22°♊54'17 -0°50'43	
	12038 May 19 21:17	0°♊	minimum elong	12043 Mar 07 05:49	22°♊52'32 0°50'30	
	12038 Jun 27 10:45	0°♊		12043 Mar 18 09:48	0°♊	
	12038 Aug 04 22:18	0°♊	morning rise	12043 Apr 19 15:15	20°♊45'11	
	12038 Sep 13 08:51	0°♊		12043 May 03 19:54	0°♊	
	12038 Oct 24 11:25	0°♊		12043 Jun 18 01:25	0°♊	
evening set	12038 Oct 31 00:28	4°♊38'52		12043 Jul 31 23:51	0°♊	
	12038 Dec 06 14:01	0°♊		12043 Sep 12 16:54	0°♊	
				12043 Oct 24 14:36	0°♊	
conjunction	12038 Dec 23 16:22	11°♊31'20 0°29'48	asc. node	12043 Nov 26 15:39	23°♊33'07	
minimum elong	12038 Dec 23 17:34	11°♊33'20 0°30'38		12043 Dec 05 21:11	0°♊	
max. Earth dist.	12039 Jan 14 12:14	25°♊58'01 2.61235 AU		12044 Jan 21 09:59	0°♊	
	12039 Jan 20 16:20	0°♊	retrograde	12044 Mar 22 00:45	20°♊48'26	
morning rise	12039 Feb 09 19:23	13°♊01'21	min. Earth dist.	12044 Apr 17 20:24	15°♊50'10 0.43938 AU	
desc. node	12039 Feb 17 04:03	17°♊44'07	greatest brilliancy	12044 Apr 24 11:51	13°♊36'24 -2.5m	
	12039 Mar 08 11:55	0°♊	opposition	12044 Apr 26 05:06	13°♊01'23 6°05'56	
	12039 Apr 25 20:15	0°♊	direct	12044 May 28 06:26	6°♊41'01	
	12039 Jun 15 03:05	0°♊		12044 Aug 08 23:15	0°♊	
	12039 Aug 08 22:51	0°♊		12044 Oct 02 15:51	0°♊	
retrograde	12039 Oct 26 23:47	25°♊15'55	desc. node	12044 Oct 09 01:30	3°♊42'52	
opposition	12039 Nov 30 00:53	18°♊30'10 -4°26'13		12044 Nov 22 09:44	0°♊	
greatest brilliancy	12039 Dec 01 13:38	17°♊58'47 -2.3m		12045 Jan 10 14:09	0°♊	

evening set	12045 Feb 25 12:27	28° H 49'52		morning rise	12049 Oct 02 10:14	7° L 08'03	
	12045 Feb 27 08:23	0° Y			12049 Oct 31 22:16	0° M	
max. Earth dist.	12045 Mar 22 21:37	15° Y 11'15	2.63075 AU		12049 Dec 11 00:38	0° J	
					12050 Jan 22 11:46	0° Z	
conjunction	12045 Apr 11 06:46	27° Y 55'04	-1°09'10		12050 Mar 09 10:19	0° \approx	
minimum elong	12045 Apr 11 06:23	27° Y 54'26	1°09'29		12050 Apr 30 20:47	0° H	
	12045 Apr 14 10:05	0° B		desc. node	12050 Jun 01 16:31	14° H 27'07	
morning rise	12045 May 27 15:06	29° B 19'18		retrograde	12050 Jul 16 08:12	24° H 14'10	
	12045 May 28 14:35	0° II		opposition	12050 Aug 25 18:06	14° H 38'09	-2°48'05
	12045 Jul 09 22:31	0° E		greatest brilliancy	12050 Aug 25 19:09	14° H 37'07	-1.3m
	12045 Aug 19 15:12	0° O		min. Earth dist.	12050 Aug 26 17:29	14° H 15'03	0.68345 AU
	12045 Sep 28 03:44	0° M		direct	12050 Oct 06 03:59	4° H 42'19	
asc. node	12045 Oct 13 08:53	11° M 40'43			12050 Dec 24 04:09	0° Y	
	12045 Nov 06 05:48	0° L			12051 Feb 13 23:45	0° B	
	12045 Dec 16 00:51	0° M			12051 Mar 30 22:46	0° II	
	12046 Jan 27 12:53	0° J			12051 May 11 06:19	0° E	
	12046 Mar 19 20:23	0° Z		asc. node	12051 Jun 04 13:15	18° E 29'27	
retrograde	12046 May 07 16:03	13° Z 20'06			12051 Jun 19 08:46	0° O	
min. Earth dist.	12046 Jun 09 13:55	6° Z 05'30	0.57350 AU	evening set	12051 Jul 27 10:13	0° M 02'46	
greatest brilliancy	12046 Jun 15 09:16	3° Z 49'56	-1.8m		12051 Jul 27 08:50	0° M	
opposition	12046 Jun 16 00:44	3° Z 34'53	2°52'23		12051 Sep 03 06:28	0° L	
	12046 Jun 25 19:03	30° R J					
direct	12046 Jul 22 19:25	25° J 16'11		conjunction	12051 Oct 07 09:55	26° L 31'10	1°04'52
	12046 Aug 21 14:31	0° Z		minimum elong	12051 Oct 07 08:27	26° L 28'21	1°05'09
desc. node	12046 Aug 27 10:37	1° Z 47'56			12051 Oct 11 23:17	0° M	
	12046 Oct 29 03:32	0° \approx			12051 Nov 21 05:41	0° J	
	12046 Dec 21 12:35	0° H		max. Earth dist.	12051 Nov 27 18:13	4° J 43'22	2.44302 AU
	12047 Feb 08 17:42	0° Y		morning rise	12051 Dec 10 22:04	14° J 08'05	
	12047 Mar 27 01:15	0° B			12052 Jan 02 15:17	0° Z	
evening set	12047 Apr 04 11:17	5° B 38'39			12052 Feb 16 14:02	0° \approx	
max. Earth dist.	12047 Apr 20 11:46	16° B 33'03	2.53037 AU		12052 Apr 04 16:17	0° H	
	12047 May 09 19:21	0° II		desc. node	12052 Apr 18 09:08	8° H 05'20	
					12052 May 28 04:44	0° Y	
conjunction	12047 May 23 19:51	9° II 57'52	-0°57'27	retrograde	12052 Aug 20 18:50	27° Y 33'08	
minimum elong	12047 May 23 21:31	10° II 00'51	0°58'12	opposition	12052 Sep 28 16:28	18° Y 42'27	-4°35'17
	12047 Jun 20 07:52	0° E		greatest brilliancy	12052 Sep 29 09:48	18° Y 25'41	-1.4m
morning rise	12047 Jul 18 20:29	21° E 25'02		min. Earth dist.	12052 Oct 03 11:52	16° Y 50'54	0.63927 AU
	12047 Jul 30 01:51	0° O		direct	12052 Nov 09 01:20	8° Y 41'47	
asc. node	12047 Aug 30 23:42	24° O 45'26			12053 Jan 16 04:58	0° B	
	12047 Sep 06 16:26	0° M			12053 Mar 07 05:13	0° II	
	12047 Oct 14 22:13	0° L			12053 Apr 18 21:47	0° E	
	12047 Nov 22 17:05	0° M		asc. node	12053 Apr 21 18:02	2° E 05'56	
	12048 Jan 02 03:28	0° J			12053 May 28 11:22	0° O	
	12048 Feb 14 18:22	0° Z			12053 Jul 05 17:30	0° M	
	12048 Apr 05 10:35	0° \approx			12053 Aug 12 22:20	0° L	
retrograde	12048 Jun 12 06:53	21° \approx 15'13			12053 Sep 21 01:17	0° M	
desc. node	12048 Jul 14 16:27	14° \approx 30'24		evening set	12053 Oct 08 07:32	12° M 52'17	
min. Earth dist.	12048 Jul 20 02:27	12° \approx 23'51	0.66059 AU		12053 Oct 31 19:42	0° J	
opposition	12048 Jul 22 22:21	11° \approx 16'20	-0°18'12				
greatest brilliancy	12048 Jul 22 21:30	11° \approx 17'10	-1.4m	conjunction	12053 Dec 05 15:30	24° J 30'55	0°46'17
direct	12048 Aug 31 19:35	1° \approx 53'32		minimum elong	12053 Dec 05 17:17	24° J 34'00	0°47'05
	12048 Nov 25 22:31	0° H			12053 Dec 13 15:10	0° Z	
	12049 Jan 18 11:19	0° Y		max. Earth dist.	12054 Jan 03 23:37	14° Z 25'45	2.57366 AU
	12049 Mar 06 23:55	0° B		morning rise	12054 Jan 25 18:27	28° Z 49'39	
	12049 Apr 19 20:33	0° II			12054 Jan 27 13:32	0° \approx	
evening set	12049 May 20 16:49	22° II 19'36		desc. node	12054 Mar 05 21:11	23° \approx 56'57	
	12049 May 31 00:22	0° E			12054 Mar 15 12:13	0° H	
max. Earth dist.	12049 Jun 09 04:55	6° E 55'06	2.39581 AU		12054 May 03 13:49	0° Y	
	12049 Jul 09 06:12	0° O			12054 Jun 25 01:56	0° B	
asc. node	12049 Jul 17 14:39	6° O 31'00			12054 Aug 29 13:20	0° II	
				retrograde	12054 Oct 04 19:06	6° II 40'23	
conjunction	12049 Jul 21 09:02	9° O 27'59	0°02'45		12054 Nov 07 05:48	30° R B	
minimum elong	12049 Jul 21 08:48	9° O 27'31	0°02'02	opposition	12054 Nov 09 15:05	29° B 08'37	-5°04'37
behind sun begin	12049 Jul 20 04:18	8° O 31'41		greatest brilliancy	12054 Nov 11 03:42	28° B 35'24	-1.9m
behind sun end	12049 Jul 22 13:18	10° O 23'22		min. Earth dist.	12054 Nov 17 20:27	26° B 10'33	0.53040 AU
	12049 Aug 16 09:55	0° M		direct	12054 Dec 18 17:14	19° B 59'25	
	12049 Sep 23 08:16	0° L			12055 Jan 29 05:34	0° II	

asc. node	12055 Mar 10 00:27	21° Π 33'16		max. Earth dist.	12060 Mar 13 11:05	4° Υ 43'25	2.65613 AU
	12055 Mar 23 01:36	0° \mathfrak{D}					
	12055 May 04 08:12	0° Ω		conjunction	12060 Mar 27 20:51	14° Υ 01'44	-1°04'45
	12055 Jun 12 22:22	0° \mathfrak{M}		minimum elong	12060 Mar 27 20:01	14° Υ 00'23	1°04'52
	12055 Jul 22 03:53	0° \mathfrak{L}			12060 Apr 21 05:53	0° \mathfrak{B}	
	12055 Aug 31 06:52	0° \mathfrak{M}		morning rise	12060 May 11 12:14	13° \mathfrak{B} 30'53	
	12055 Oct 12 01:01	0° \mathfrak{A}			12060 Jun 04 18:22	0° Π	
	12055 Nov 24 17:03	0° \mathfrak{Z}			12060 Jul 17 14:34	0° \mathfrak{D}	
evening set	12055 Nov 29 19:41	3° \mathfrak{Z} 25'45			12060 Aug 27 21:51	0° Ω	
	12056 Jan 09 03:44	0° \approx			12060 Oct 07 01:44	0° \mathfrak{M}	
				asc. node	12060 Oct 30 04:05	17° \mathfrak{M} 26'04	
conjunction	12056 Jan 17 14:28	5° \approx 28'13	0°02'09		12060 Nov 15 20:46	0° \mathfrak{L}	
minimum elong	12056 Jan 17 14:35	5° \approx 28'23	0°02'54		12060 Dec 26 17:15	0° \mathfrak{M}	
behind sun begin	12056 Jan 16 19:23	4° \approx 57'24			12061 Feb 10 00:55	0° \mathfrak{A}	
behind sun end	12056 Jan 18 09:46	5° \approx 59'22		retrograde	12061 Apr 21 07:29	25° \mathfrak{A} 37'30	
desc. node	12056 Jan 21 11:14	7° \approx 57'54		min. Earth dist.	12061 May 21 21:15	19° \mathfrak{A} 12'41	0.52407 AU
max. Earth dist.	12056 Jan 29 12:40	13° \approx 08'55	2.65608 AU	greatest brilliancy	12061 May 28 09:55	16° \mathfrak{A} 45'02	-2.0m
	12056 Feb 24 22:42	0° \mathfrak{H}		opposition	12061 May 29 12:43	16° \mathfrak{A} 19'43	4°14'45
morning rise	12056 Mar 02 17:45	4° \mathfrak{H} 18'15		direct	12061 Jul 03 14:36	8° \mathfrak{A} 39'32	
	12056 Apr 12 14:25	0° Υ		desc. node	12061 Sep 12 20:18	0° \mathfrak{Z} 10'03	
	12056 May 30 21:13	0° \mathfrak{B}			12061 Sep 12 11:54	0° \mathfrak{Z}	
	12056 Jul 19 03:26	0° Π			12061 Nov 08 02:32	0° \approx	
	12056 Sep 09 03:49	0° \mathfrak{D}			12061 Dec 29 07:11	0° \mathfrak{H}	
	12056 Nov 17 19:05	0° Ω			12062 Feb 15 19:09	0° Υ	
retrograde	12056 Dec 08 10:40	2° Ω 31'02		evening set	12062 Mar 20 00:58	20° Υ 47'48	
	12056 Dec 28 15:46	30° \mathfrak{R} \mathfrak{D}			12062 Apr 02 22:56	0° \mathfrak{B}	
opposition	12057 Jan 08 05:18	27° \mathfrak{D} 09'03	-1°13'55	max. Earth dist.	12062 Apr 08 06:47	3° \mathfrak{B} 33'41	2.57527 AU
greatest brilliancy	12057 Jan 08 14:38	27° \mathfrak{D} 02'14	-2.8m				
min. Earth dist.	12057 Jan 14 13:47	25° \mathfrak{D} 18'08	0.39351 AU	conjunction	12062 May 05 22:50	22° \mathfrak{B} 24'53	-1°06'46
asc. node	12057 Jan 25 06:20	22° \mathfrak{D} 37'56		minimum elong	12062 May 05 23:37	22° \mathfrak{B} 26'14	1°07'23
direct	12057 Feb 09 20:52	20° \mathfrak{D} 57'57			12062 May 16 20:05	0° Π	
	12057 Mar 19 16:40	0° Ω		morning rise	12062 Jun 26 00:50	28° Π 49'59	
	12057 May 11 10:35	0° \mathfrak{M}			12062 Jun 27 15:00	0° \mathfrak{D}	
	12057 Jun 24 11:39	0° \mathfrak{L}			12062 Aug 06 16:27	0° Ω	
	12057 Aug 06 16:02	0° \mathfrak{M}			12062 Sep 14 13:50	0° \mathfrak{M}	
	12057 Sep 19 16:50	0° \mathfrak{A}		asc. node	12062 Sep 16 18:46	1° \mathfrak{M} 43'02	
	12057 Nov 04 01:46	0° \mathfrak{Z}			12062 Oct 23 01:15	0° \mathfrak{L}	
desc. node	12057 Dec 08 08:25	22° \mathfrak{Z} 08'33			12062 Dec 01 01:41	0° \mathfrak{M}	
	12057 Dec 20 15:21	0° \approx			12063 Jan 10 21:57	0° \mathfrak{A}	
evening set	12058 Jan 07 22:44	11° \approx 39'21			12063 Feb 24 19:17	0° \mathfrak{Z}	
	12058 Feb 05 21:03	0° \mathfrak{H}			12063 Apr 23 18:40	0° \approx	
max. Earth dist.	12058 Feb 20 04:58	9° \mathfrak{H} 04'40	2.68376 AU	retrograde	12063 May 30 15:39	7° \approx 39'19	
					12063 Jul 04 02:17	30° \mathfrak{R} \mathfrak{Z}	
conjunction	12058 Feb 21 18:16	10° \mathfrak{H} 03'47	-0°38'22	min. Earth dist.	12063 Jul 05 17:18	29° \mathfrak{Z} 21'44	0.63388 AU
minimum elong	12058 Feb 21 17:16	10° \mathfrak{H} 02'12	0°37'59	opposition	12063 Jul 10 00:26	27° \mathfrak{Z} 39'34	0°50'45
	12058 Mar 25 03:23	0° Υ		greatest brilliancy	12063 Jul 09 21:26	27° \mathfrak{Z} 42'33	-1.5m
morning rise	12058 Apr 05 23:55	7° Υ 34'06		desc. node	12063 Aug 01 04:09	20° \mathfrak{Z} 24'25	
	12058 May 10 21:12	0° \mathfrak{B}		direct	12063 Aug 17 21:29	18° \mathfrak{Z} 37'20	
	12058 Jun 25 19:18	0° Π			12063 Oct 06 10:12	0° \approx	
	12058 Aug 09 20:03	0° \mathfrak{D}			12063 Dec 07 02:25	0° \mathfrak{H}	
	12058 Sep 23 03:12	0° Ω			12064 Jan 27 08:27	0° Υ	
	12058 Nov 06 11:00	0° \mathfrak{M}			12064 Mar 14 06:26	0° \mathfrak{B}	
asc. node	12058 Dec 13 09:21	23° \mathfrak{M} 47'18			12064 Apr 27 01:00	0° Π	
	12058 Dec 23 20:30	0° \mathfrak{L}		evening set	12064 Apr 30 11:39	2° Π 26'28	
retrograde	12059 Feb 26 22:23	23° \mathfrak{L} 01'00		max. Earth dist.	12064 May 14 10:11	12° Π 26'18	2.44959 AU
min. Earth dist.	12059 Mar 24 15:43	18° \mathfrak{L} 42'56	0.39110 AU		12064 Jun 07 07:34	0° \mathfrak{D}	
greatest brilliancy	12059 Mar 29 21:02	17° \mathfrak{L} 10'03	-2.8m				
opposition	12059 Mar 31 08:32	16° \mathfrak{L} 43'32	6°15'02	conjunction	12064 Jun 25 03:13	13° \mathfrak{D} 25'15	-0°27'03
direct	12059 Apr 30 07:04	11° \mathfrak{L} 21'32		minimum elong	12064 Jun 25 05:09	13° \mathfrak{D} 28'55	0°27'52
	12059 Jul 01 00:41	0° \mathfrak{M}			12064 Jul 16 17:29	0° Ω	
	12059 Aug 24 07:57	0° \mathfrak{A}		asc. node	12064 Aug 03 10:35	13° Ω 48'18	
	12059 Oct 13 05:33	0° \mathfrak{Z}			12064 Aug 24 00:30	0° \mathfrak{M}	
desc. node	12059 Oct 26 12:05	8° \mathfrak{Z} 05'59		morning rise	12064 Aug 31 03:44	5° \mathfrak{M} 38'05	
	12059 Dec 01 04:45	0° \approx			12064 Oct 01 00:34	0° \mathfrak{L}	
	12060 Jan 18 14:25	0° \mathfrak{H}			12064 Nov 08 14:53	0° \mathfrak{M}	
evening set	12060 Feb 12 16:53	15° \mathfrak{H} 45'55			12064 Dec 18 17:38	0° \mathfrak{A}	
	12060 Mar 06 02:21	0° Υ			12065 Jan 30 09:49	0° \mathfrak{Z}	

	12065 Mar 18 07:16	0°≈			12070 May 14 04:27	0°Ω	
	12065 May 14 20:02	0°✠			12070 Jun 22 00:16	0°♐	
desc. node	12065 Jun 18 06:33	10°✠33'28			12070 Jul 30 16:25	0°♊	
retrograde	12065 Jul 03 02:13	11°✠51'00			12070 Sep 08 07:13	0°♋	
opposition	12065 Aug 12 18:04	2°✠03'14 -1°54'55			12070 Oct 19 13:45	0°♌	
min. Earth dist.	12065 Aug 12 05:23	2°✠15'48 0.68251 AU	evening set		12070 Nov 11 11:19	16°♍03'19	
greatest brilliancy	12065 Aug 12 16:13	2°✠05'04 -1.3m			12070 Dec 01 19:55	0°♎	
	12065 Aug 17 23:40	30°♏≈					
direct	12065 Sep 22 18:03	22°≈17'21	conjunction		12071 Jan 02 02:35	20°♏53'44 0°19'39	
	12065 Nov 01 07:59	0°✠	minimum elong		12071 Jan 02 03:23	20°♏55'02 0°20'27	
	12066 Jan 03 18:11	0°♑			12071 Jan 16 00:02	0°≈	
	12066 Feb 22 05:35	0°♌	max. Earth dist.		12071 Jan 20 05:33	2°≈45'07 2.63027 AU	
	12066 Apr 07 14:51	0°♐	desc. node		12071 Feb 07 04:40	14°≈20'59	
	12066 May 18 19:47	0°♍	morning rise		12071 Feb 17 23:18	21°≈14'31	
asc. node	12066 Jun 21 05:44	25°♍32'45			12071 Mar 03 18:18	0°✠	
	12066 Jun 26 22:56	0°Ω			12071 Apr 20 18:53	0°♑	
evening set	12066 Jun 27 23:15	0°Ω47'28			12071 Jun 09 04:03	0°♌	
	12066 Aug 03 23:44	0°♐			12071 Jul 31 06:00	0°♐	
					12071 Oct 02 12:08	0°♍	
conjunction	12066 Sep 07 00:56	26°♐59'04 0°49'59	retrograde		12071 Nov 10 09:00	7°♍46'23	
minimum elong	12066 Sep 06 20:57	26°♐51'12 0°49'48	opposition		12071 Dec 13 05:15	1°♍30'08 -3°38'45	
	12066 Sep 10 20:47	0°♊	greatest brilliancy		12071 Dec 14 12:30	1°♍04'42 -2.5m	
	12066 Oct 19 11:22	0°♋			12071 Dec 17 19:38	30°♏♐	
max. Earth dist.	12066 Oct 28 05:35	6°♋39'57 2.38694 AU	min. Earth dist.		12071 Dec 21 19:24	28°♐43'07 0.44370 AU	
morning rise	12066 Nov 17 03:54	21°♋35'25	direct		12072 Jan 18 00:58	23°♐52'22	
	12066 Nov 28 14:31	0°♍	asc. node		12072 Feb 11 20:46	27°♐59'44	
	12067 Jan 09 22:16	0°♏			12072 Feb 17 17:27	0°♍	
	12067 Feb 24 01:14	0°≈			12072 Apr 12 19:49	0°Ω	
	12067 Apr 14 02:53	0°✠			12072 May 25 17:17	0°♐	
desc. node	12067 May 06 01:25	12°✠15'24			12072 Jul 05 17:52	0°♊	
	12067 Jun 11 06:10	0°♑			12072 Aug 16 04:56	0°♋	
retrograde	12067 Aug 07 00:26	14°♑29'01			12072 Sep 28 01:12	0°♍	
opposition	12067 Sep 15 16:21	5°♑17'38 -3°59'50			12072 Nov 11 13:58	0°♏	
greatest brilliancy	12067 Sep 16 02:04	5°♑08'08 -1.3m	evening set		12072 Dec 24 04:06	27°♏47'23	
min. Earth dist.	12067 Sep 18 23:42	4°♑00'06 0.66451 AU	desc. node		12072 Dec 24 22:02	28°♏16'16	
	12067 Sep 29 21:52	30°♏✠			12072 Dec 27 14:28	0°≈	
direct	12067 Oct 27 06:45	25°✠14'48					
	12067 Nov 25 21:08	0°♑	conjunction		12073 Feb 08 01:34	27°≈07'21 -0°23'55	
	12068 Jan 29 06:51	0°♌	minimum elong		12073 Feb 08 00:51	27°≈06'13 0°23'22	
	12068 Mar 16 08:15	0°♐	max. Earth dist.		12073 Feb 11 12:40	29°≈19'18 2.67966 AU	
	12068 Apr 27 06:33	0°♍			12073 Feb 12 14:19	0°✠	
asc. node	12068 May 08 06:59	8°♍15'49	morning rise		12073 Mar 23 15:47	24°✠45'22	
	12068 Jun 05 13:44	0°Ω			12073 Mar 31 22:24	0°♑	
	12068 Jul 13 16:11	0°♐			12073 May 18 03:00	0°♌	
	12068 Aug 20 17:03	0°♊			12073 Jul 03 23:37	0°♐	
evening set	12068 Sep 11 17:34	17°♊06'14			12073 Aug 19 15:18	0°♍	
	12068 Sep 28 14:52	0°♋			12073 Oct 05 18:41	0°Ω	
	12068 Nov 08 03:08	0°♍			12073 Nov 25 12:23	0°♐	
			asc. node		12073 Dec 30 00:24	15°♐38'05	
conjunction	12068 Nov 14 22:27	4°♍53'54 0°59'43	retrograde		12074 Jan 28 16:42	21°♐06'00	
minimum elong	12068 Nov 15 00:11	4°♍57'02 1°00'26	min. Earth dist.		12074 Feb 25 18:11	16°♐32'29 0.36522 AU	
	12068 Dec 20 17:07	0°♏	opposition		12074 Feb 27 17:14	16°♐00'58 4°23'38	
max. Earth dist.	12068 Dec 22 14:59	1°♏18'38 2.52714 AU	greatest brilliancy		12074 Feb 27 07:05	16°♐07'47 -3.0m	
morning rise	12069 Jan 09 05:18	13°♏14'31	direct		12074 Mar 28 22:25	11°♐10'15	
	12069 Feb 03 13:14	0°≈			12074 May 28 00:10	0°♊	
desc. node	12069 Mar 22 15:40	29°≈56'17			12074 Jul 18 16:39	0°♋	
	12069 Mar 22 18:04	0°✠			12074 Sep 04 10:09	0°♍	
	12069 May 11 21:43	0°♑			12074 Oct 21 20:57	0°♏	
	12069 Jul 07 09:43	0°♌	desc. node		12074 Nov 11 23:35	13°♏16'51	
retrograde	12069 Sep 15 15:46	20°♌27'42			12074 Dec 08 15:24	0°≈	
opposition	12069 Oct 22 22:01	12°♌19'18 -5°08'14			12075 Jan 25 11:27	0°✠	
greatest brilliancy	12069 Oct 24 04:19	11°♌50'49 -1.7m	evening set		12075 Jan 29 23:16	2°✠49'39	
min. Earth dist.	12069 Oct 29 22:55	9°♌41'04 0.57999 AU	max. Earth dist.		12075 Mar 05 15:54	24°✠47'32 2.67359 AU	
direct	12069 Dec 02 06:29	2°♌39'09			12075 Mar 13 19:43	0°♑	
	12070 Feb 16 15:50	0°♐					
asc. node	12070 Mar 26 13:39	24°♐25'30	conjunction		12075 Mar 15 00:21	0°♑45'49 -0°56'46	
	12070 Apr 03 12:48	0°♍	minimum elong		12075 Mar 14 23:18	0°♑44'07 0°56'41	

morning rise	12075 Apr 27 15:39	29° Υ 01'27		opposition	12080 Jul 30 14:34	19° \approx 15'53	-0°55'45
	12075 Apr 29 03:20	0° \mathcal{B}		greatest brilliancy	12080 Jul 30 12:26	19° \approx 18'00	-1.3m
	12075 Jun 13 02:36	0° Π		direct	12080 Sep 08 23:02	9° \approx 43'50	
	12075 Jul 26 14:45	0° \mathfrak{S}			12080 Nov 17 23:53	0° \mathcal{H}	
	12075 Sep 06 17:53	0° Ω			12081 Jan 12 20:22	0° Υ	
	12075 Oct 17 20:37	0° \mathfrak{M}			12081 Mar 01 23:40	0° \mathcal{B}	
asc. node	12075 Nov 16 23:39	22° \mathfrak{M} 05'21			12081 Apr 15 00:59	0° Π	
	12075 Nov 27 21:18	0° $\underline{\mathfrak{A}}$			12081 May 26 05:28	0° \mathfrak{S}	
	12076 Jan 10 02:40	0° \mathfrak{M}		evening set	12081 Jun 02 10:05	5° \mathfrak{S} 24'35	
	12076 Mar 06 22:27	0° \mathcal{A}			12081 Jul 04 10:31	0° Ω	
retrograde	12076 Apr 02 20:03	4° \mathcal{A} 52'19		max. Earth dist.	12081 Jul 06 22:33	1° Ω 57'03	2.37097 AU
	12076 Apr 29 03:00	30° $\mathcal{R}\mathfrak{M}$		asc. node	12081 Jul 07 22:30	2° Ω 43'47	
min. Earth dist.	12076 Apr 30 22:46	29° \mathfrak{M} 22'56	0.46967 AU				
greatest brilliancy	12076 May 07 17:52	26° \mathfrak{M} 58'20	-2.3m	conjunction	12081 Aug 06 20:15	26° Ω 16'42	0°21'18
opposition	12076 May 09 07:41	26° \mathfrak{M} 24'33	5°32'32	minimum elong	12081 Aug 06 18:03	26° Ω 12'21	0°20'44
direct	12076 Jun 11 11:39	19° \mathfrak{M} 32'49			12081 Aug 11 12:58	0° \mathfrak{M}	
	12076 Jul 26 17:22	0° \mathcal{A}			12081 Sep 18 10:19	0° $\underline{\mathfrak{A}}$	
	12076 Sep 25 14:59	0° \mathfrak{S}		morning rise	12081 Oct 20 00:05	24° $\underline{\mathfrak{A}}$ 37'55	
desc. node	12076 Sep 29 06:26	2° \mathfrak{S} 01'00			12081 Oct 26 23:49	0° \mathfrak{M}	
	12076 Nov 16 21:22	0° \approx			12081 Dec 06 01:20	0° \mathcal{A}	
	12077 Jan 05 16:28	0° \mathcal{H}			12082 Jan 17 09:33	0° \mathfrak{S}	
	12077 Feb 22 16:34	0° Υ			12082 Mar 03 21:43	0° \approx	
evening set	12077 Mar 05 12:57	6° Υ 56'47			12082 Apr 23 15:22	0° \mathcal{H}	
max. Earth dist.	12077 Mar 28 14:39	21° Υ 56'38	2.61327 AU	desc. node	12082 May 22 18:55	14° \mathcal{H} 43'19	
	12077 Apr 09 19:05	0° \mathcal{B}			12082 Jul 05 19:46	0° Υ	
				retrograde	12082 Jul 24 01:48	1° Υ 52'16	
conjunction	12077 Apr 19 20:45	6° \mathcal{B} 43'50	-1°09'48		12082 Aug 10 04:44	30° $\mathcal{R}\mathcal{H}$	
minimum elong	12077 Apr 19 20:45	6° \mathcal{B} 43'49	1°10'14	opposition	12082 Sep 02 06:40	22° \mathcal{H} 24'09	-3°16'33
	12077 May 23 21:20	0° Π		greatest brilliancy	12082 Sep 02 10:16	22° \mathcal{H} 20'37	-1.3m
morning rise	12077 Jun 06 13:10	9° Π 34'47		min. Earth dist.	12082 Sep 04 01:49	21° \mathcal{H} 41'42	0.67954 AU
	12077 Jul 05 00:50	0° \mathfrak{S}		direct	12082 Oct 13 19:57	12° \mathcal{H} 24'46	
	12077 Aug 14 12:12	0° Ω			12082 Dec 15 17:06	0° Υ	
	12077 Sep 22 18:54	0° \mathfrak{M}			12083 Feb 08 02:49	0° \mathcal{B}	
asc. node	12077 Oct 03 15:54	8° \mathfrak{M} 23'49			12083 Mar 25 17:10	0° Π	
	12077 Oct 31 14:38	0° $\underline{\mathfrak{A}}$			12083 May 06 05:46	0° \mathfrak{S}	
	12077 Dec 10 00:34	0° \mathfrak{M}		asc. node	12083 May 25 22:23	14° \mathfrak{S} 54'56	
	12078 Jan 20 15:36	0° \mathcal{A}			12083 Jun 14 10:06	0° Ω	
	12078 Mar 09 06:21	0° \mathfrak{S}			12083 Jul 22 10:51	0° \mathfrak{M}	
retrograde	12078 May 16 07:20	22° \mathfrak{S} 55'32		evening set	12083 Aug 13 18:14	17° \mathfrak{M} 40'59	
min. Earth dist.	12078 Jun 19 09:37	15° \mathfrak{S} 17'10	0.59732 AU		12083 Aug 29 09:05	0° $\underline{\mathfrak{A}}$	
opposition	12078 Jun 25 03:09	13° \mathfrak{S} 02'12	2°06'07		12083 Oct 07 02:50	0° \mathfrak{M}	
greatest brilliancy	12078 Jun 24 17:05	13° \mathfrak{S} 12'04	-1.7m				
direct	12078 Aug 01 17:59	4° \mathfrak{S} 26'07		conjunction	12083 Oct 22 18:36	11° \mathfrak{M} 49'15	1°06'15
desc. node	12078 Aug 17 14:24	5° \mathfrak{S} 52'21		minimum elong	12083 Oct 22 18:48	11° \mathfrak{M} 49'39	1°06'44
	12078 Oct 21 12:44	0° \approx			12083 Nov 16 10:05	0° \mathcal{A}	
	12078 Dec 15 23:06	0° \mathcal{H}		max. Earth dist.	12083 Dec 08 13:59	15° \mathcal{A} 52'51	2.47408 AU
	12079 Feb 03 19:33	0° Υ		morning rise	12083 Dec 22 15:24	25° \mathcal{A} 43'35	
	12079 Mar 22 08:05	0° \mathcal{B}			12083 Dec 28 19:49	0° \mathfrak{S}	
evening set	12079 Apr 13 18:45	15° \mathcal{B} 09'49			12084 Feb 11 15:51	0° \approx	
max. Earth dist.	12079 Apr 28 10:45	25° \mathcal{B} 19'09	2.50275 AU		12084 Mar 30 07:24	0° \mathcal{H}	
	12079 May 05 02:42	0° Π		desc. node	12084 Apr 08 09:24	5° \mathcal{H} 29'04	
					12084 May 21 04:29	0° Υ	
conjunction	12079 Jun 03 23:24	21° Π 27'56	-0°48'45		12084 Jul 26 15:22	0° \mathcal{B}	
minimum elong	12079 Jun 04 01:27	21° Π 31'40	0°49'34	retrograde	12084 Aug 29 17:22	5° \mathcal{B} 53'16	
	12079 Jun 15 13:20	0° \mathfrak{S}			12084 Sep 29 18:16	30° $\mathcal{R}\mathcal{Y}$	
	12079 Jul 25 04:41	0° Ω		opposition	12084 Oct 07 02:49	27° Υ 16'02	-4°51'22
morning rise	12079 Aug 02 13:03	6° Ω 27'06		greatest brilliancy	12084 Oct 08 00:49	26° Υ 54'55	-1.5m
asc. node	12079 Aug 21 05:12	20° Ω 59'58		min. Earth dist.	12084 Oct 12 17:56	25° Υ 06'37	0.62069 AU
	12079 Sep 01 16:33	0° \mathfrak{M}		direct	12084 Nov 17 05:42	17° Υ 20'01	
	12079 Oct 09 19:59	0° $\underline{\mathfrak{A}}$			12085 Jan 05 21:30	0° \mathcal{B}	
	12079 Nov 17 12:33	0° \mathfrak{M}			12085 Feb 28 16:21	0° Π	
	12079 Dec 27 18:29	0° \mathcal{A}		asc. node	12085 Apr 12 02:14	29° Π 12'10	
	12080 Feb 08 21:20	0° \mathfrak{S}			12085 Apr 13 04:33	0° \mathfrak{S}	
	12080 Mar 28 13:33	0° \approx			12085 May 23 01:43	0° Ω	
retrograde	12080 Jun 19 21:28	29° \approx 11'49			12085 Jun 30 11:51	0° \mathfrak{M}	
desc. node	12080 Jul 04 20:03	27° \approx 42'56			12085 Aug 07 19:49	0° $\underline{\mathfrak{A}}$	
min. Earth dist.	12080 Jul 28 14:02	20° \approx 04'05	0.67111 AU		12085 Sep 16 02:03	0° \mathfrak{M}	

evening set	12085 Oct 21 13:18	26° \mathbb{M} 05'53			12090 Sep 16 09:19	0° \mathcal{Q}	
	12085 Oct 26 23:34	0° \mathcal{X}			12090 Oct 29 03:47	0° \mathbb{M}	
	12085 Dec 08 21:34	0° \mathcal{Z}		asc. node	12090 Dec 03 16:57	24° \mathbb{M} 31'06	
					12090 Dec 11 22:31	0° \mathcal{A}	
conjunction	12085 Dec 16 03:05	4° \mathcal{Z} 54'52	0°36'58		12091 Feb 02 00:04	0° \mathbb{M}	
minimum elong	12085 Dec 16 04:35	4° \mathcal{Z} 57'24	0°37'48	retrograde	12091 Mar 13 02:31	9° \mathbb{M} 43'36	
max. Earth dist.	12086 Jan 10 05:48	21° \mathcal{Z} 42'34	2.59602 AU	min. Earth dist.	12091 Apr 08 03:42	5° \mathbb{M} 06'51	0.41614 AU
	12086 Jan 22 20:39	0° \approx		greatest brilliancy	12091 Apr 14 08:53	3° \mathbb{M} 08'06	-2.6m
morning rise	12086 Feb 03 11:13	7° \approx 32'35		opposition	12091 Apr 16 01:53	2° \mathbb{M} 35'04	6°21'06
desc. node	12086 Feb 23 22:05	20° \approx 39'45			12091 Apr 24 13:58	30° \mathcal{R} \mathcal{A}	
	12086 Mar 10 16:20	0° \mathcal{H}		direct	12091 May 17 04:22	26° \mathcal{A} 41'22	
	12086 Apr 28 06:23	0° \mathcal{Y}			12091 Jun 09 14:03	0° \mathbb{M}	
	12086 Jun 18 07:46	0° \mathcal{B}			12091 Aug 15 22:32	0° \mathcal{X}	
	12086 Aug 15 01:05	0° \mathbb{I}			12091 Oct 07 02:27	0° \mathcal{Z}	
retrograde	12086 Oct 16 20:35	17° \mathbb{I} 19'30		desc. node	12091 Oct 16 16:09	5° \mathcal{Z} 41'36	
opposition	12086 Nov 20 18:09	10° \mathbb{I} 11'59	-4°47'49		12091 Nov 25 23:34	0° \approx	
greatest brilliancy	12086 Nov 22 07:58	9° \mathbb{I} 38'42	-2.1m		12092 Jan 13 19:31	0° \mathcal{H}	
min. Earth dist.	12086 Nov 29 11:02	7° \mathbb{I} 09'17	0.50001 AU	evening set	12092 Feb 20 13:51	23° \mathcal{H} 41'52	
direct	12086 Dec 28 22:05	1° \mathbb{I} 28'25			12092 Mar 01 11:26	0° \mathcal{Y}	
asc. node	12087 Feb 28 10:08	21° \mathbb{I} 50'55		max. Earth dist.	12092 Mar 18 19:51	11° \mathcal{Y} 09'22	2.64316 AU
	12087 Mar 14 05:39	0° \mathcal{G}					
	12087 Apr 27 10:11	0° \mathcal{Q}		conjunction	12092 Apr 04 23:57	22° \mathcal{Y} 20'29	-1°07'51
	12087 Jun 06 18:06	0° \mathbb{M}		minimum elong	12092 Apr 04 23:21	22° \mathcal{Y} 19'31	1°08'05
	12087 Jul 16 10:10	0° \mathcal{A}			12092 Apr 16 14:42	0° \mathcal{B}	
	12087 Aug 25 21:39	0° \mathbb{M}		morning rise	12092 May 20 11:23	22° \mathcal{B} 46'53	
	12087 Oct 06 22:58	0° \mathcal{X}			12092 May 30 23:42	0° \mathbb{I}	
	12087 Nov 19 20:51	0° \mathcal{Z}			12092 Jul 12 13:41	0° \mathcal{G}	
evening set	12087 Dec 09 10:16	12° \mathcal{Z} 59'21			12092 Aug 22 13:17	0° \mathcal{Q}	
	12088 Jan 04 11:20	0° \approx			12092 Oct 01 08:26	0° \mathbb{M}	
desc. node	12088 Jan 11 13:17	4° \approx 34'41		asc. node	12092 Oct 20 10:33	14° \mathbb{M} 33'18	
					12092 Nov 09 16:52	0° \mathcal{A}	
conjunction	12088 Jan 25 23:19	13° \approx 50'54	-0°07'51		12092 Dec 19 20:15	0° \mathbb{M}	
minimum elong	12088 Jan 25 23:05	13° \approx 50'31	0°07'12		12093 Feb 01 03:18	0° \mathcal{X}	
behind sun begin	12088 Jan 25 05:51	13° \approx 22'55			12093 Mar 29 13:54	0° \mathcal{Z}	
behind sun end	12088 Jan 26 16:19	14° \approx 18'07		retrograde	12093 Apr 30 19:30	6° \mathcal{Z} 28'29	
max. Earth dist.	12088 Feb 03 16:58	19° \approx 26'13	2.66693 AU		12093 May 31 15:05	30° \mathcal{R} \mathcal{X}	
	12088 Feb 20 07:12	0° \mathcal{H}		min. Earth dist.	12093 Jun 01 16:57	29° \mathcal{X} 35'42	0.55227 AU
morning rise	12088 Mar 10 09:36	12° \mathcal{H} 05'52		opposition	12093 Jun 08 17:59	26° \mathcal{X} 53'15	3°27'17
	12088 Apr 07 19:10	0° \mathcal{Y}		greatest brilliancy	12093 Jun 07 21:49	27° \mathcal{X} 12'39	-1.9m
	12088 May 25 14:54	0° \mathcal{B}		direct	12093 Jul 14 19:44	18° \mathcal{X} 50'40	
	12088 Jul 12 20:02	0° \mathbb{I}			12093 Aug 31 23:50	0° \mathcal{Z}	
	12088 Aug 31 05:41	0° \mathcal{G}		desc. node	12093 Sep 03 01:23	0° \mathcal{Z} 49'33	
	12088 Oct 24 09:41	0° \mathcal{Q}			12093 Nov 01 16:34	0° \approx	
retrograde	12088 Dec 26 12:56	19° \mathcal{Q} 04'18			12093 Dec 24 01:41	0° \mathcal{H}	
asc. node	12089 Jan 15 16:48	16° \mathcal{Q} 35'44			12094 Feb 10 24:00	0° \mathcal{Y}	
opposition	12089 Jan 25 10:48	14° \mathcal{Q} 04'40	0°44'45	evening set	12094 Mar 28 16:39	29° \mathcal{Y} 36'08	
greatest brilliancy	12089 Jan 25 13:01	14° \mathcal{Q} 03'09	-3.0m		12094 Mar 29 06:59	0° \mathcal{B}	
min. Earth dist.	12089 Jan 29 09:51	12° \mathcal{Q} 59'54	0.37430 AU	max. Earth dist.	12094 Apr 15 01:44	11° \mathcal{B} 17'17	2.55139 AU
direct	12089 Feb 25 06:04	8° \mathcal{Q} 38'17			12094 May 12 03:46	0° \mathbb{I}	
	12089 Apr 29 01:52	0° \mathbb{M}					
	12089 Jun 16 05:10	0° \mathcal{A}		conjunction	12094 May 15 19:48	2° \mathbb{I} 34'55	-1°02'16
	12089 Jul 31 00:12	0° \mathbb{M}		minimum elong	12094 May 15 21:06	2° \mathbb{I} 37'11	1°02'59
	12089 Sep 13 22:56	0° \mathcal{X}			12094 Jun 22 20:09	0° \mathcal{G}	
	12089 Oct 29 21:34	0° \mathcal{Z}		morning rise	12094 Jul 08 10:02	11° \mathcal{G} 34'14	
desc. node	12089 Nov 28 10:43	18° \mathcal{Z} 57'01			12094 Aug 01 18:15	0° \mathcal{Q}	
	12089 Dec 15 19:35	0° \approx		asc. node	12094 Sep 07 01:37	28° \mathcal{Q} 05'41	
evening set	12090 Jan 16 02:27	19° \approx 48'12			12094 Sep 09 12:09	0° \mathbb{M}	
	12090 Feb 01 05:42	0° \mathcal{H}			12094 Oct 17 20:03	0° \mathcal{A}	
max. Earth dist.	12090 Feb 25 04:13	15° \mathcal{H} 09'14	2.68255 AU		12094 Nov 25 16:24	0° \mathbb{M}	
					12095 Jan 05 04:54	0° \mathcal{X}	
conjunction	12090 Mar 01 12:09	17° \mathcal{H} 54'09	-0°45'54		12095 Feb 18 03:54	0° \mathcal{Z}	
minimum elong	12090 Mar 01 11:05	17° \mathcal{H} 52'26	0°45'38		12095 Apr 11 15:58	0° \approx	
	12090 Mar 20 12:18	0° \mathcal{Y}		retrograde	12095 Jun 07 11:56	16° \approx 01'55	
morning rise	12090 Apr 13 17:38	15° \mathcal{Y} 31'47		min. Earth dist.	12095 Jul 14 13:48	7° \approx 25'13	0.64986 AU
	12090 May 06 02:03	0° \mathcal{B}		opposition	12095 Jul 18 01:41	6° \approx 01'59	0°09'36
	12090 Jun 20 15:09	0° \mathbb{I}		greatest brilliancy	12095 Jul 18 01:16	6° \approx 02'23	-1.5m
	12090 Aug 04 00:47	0° \mathcal{G}		desc. node	12095 Jul 22 08:09	4° \approx 21'33	

	12095 Aug 04 01:58	30° κ $\overline{\text{C}}$	evening set	12100 Sep 28 05:21	2° \mathbb{M} 39'31	
direct	12095 Aug 26 13:22	26° $\overline{\text{C}}$ 47'43		12100 Nov 04 07:04	0° $\overline{\text{X}}$	
	12095 Sep 19 23:48	0° \approx				
	12095 Nov 30 13:17	0° X	conjunction	12100 Nov 28 01:22	16° $\overline{\text{X}}$ 54'14	0°52'30
	12096 Jan 22 02:04	0° Υ	minimum elong	12100 Nov 28 03:16	16° $\overline{\text{X}}$ 57'34	0°53'18
	12096 Mar 09 09:31	0° B		12100 Dec 16 22:31	0° $\overline{\text{C}}$	
	12096 Apr 22 06:45	0° \mathbb{I}	max. Earth dist.	12100 Dec 30 23:52	9° $\overline{\text{C}}$ 33'50	2.55385 AU
evening set	12096 May 11 14:03	13° \mathbb{I} 49'54	morning rise	12101 Jan 19 20:43	22° $\overline{\text{C}}$ 50'06	
max. Earth dist.	12096 May 27 04:04	25° \mathbb{I} 15'47		12101 Jan 30 18:25	0° \approx	
	12096 Jun 02 12:54	0° $\overline{\text{C}}$	desc. node	12101 Mar 13 15:25	26° \approx 48'11	
				12101 Mar 18 18:08	0° X	
conjunction	12096 Jul 09 09:36	28° $\overline{\text{C}}$ 04'02		12101 May 07 04:15	0° Υ	
minimum elong	12096 Jul 09 10:36	28° $\overline{\text{C}}$ 05'59		12101 Jun 29 23:16	0° B	
behind sun begin	12096 Jul 08 15:19	27° $\overline{\text{C}}$ 28'39	retrograde	12101 Sep 27 03:34	29° B 55'51	
behind sun end	12096 Jul 10 05:54	28° $\overline{\text{C}}$ 43'20	opposition	12101 Nov 02 16:24	22° B 06'35	-5°08'55
	12096 Jul 11 21:27	0° Ω	greatest brilliancy	12101 Nov 04 02:37	21° B 35'00	-1.8m
asc. node	12096 Jul 24 16:12	9° Ω 57'51	min. Earth dist.	12101 Nov 10 10:40	19° B 15'27	0.55362 AU
	12096 Aug 19 03:01	0° \mathbb{M}	direct	12101 Dec 12 10:28	12° B 41'25	
morning rise	12096 Sep 18 05:28	23° \mathbb{M} 48'34				
	12096 Sep 26 01:54	0° $\underline{\text{C}}$				
	12096 Nov 03 15:20	0° \mathbb{M}				
	12096 Dec 13 16:29	0° $\overline{\text{X}}$				
	12097 Jan 25 03:29	0° $\overline{\text{C}}$				
	12097 Mar 12 07:47	0° \approx				
	12097 May 05 04:06	0° X				
desc. node	12097 Jun 08 09:31	13° X 56'35				
retrograde	12097 Jul 10 15:06	19° X 27'06				
opposition	12097 Aug 20 04:36	9° X 45'23				
greatest brilliancy	12097 Aug 20 04:03	9° X 45'56				
min. Earth dist.	12097 Aug 20 11:44	9° X 38'20				
	12097 Sep 26 06:29	30° κ \approx				
direct	12097 Sep 30 11:16	29° \approx 53'33				
	12097 Oct 04 17:39	0° X				
	12097 Dec 28 00:55	0° Υ				
	12098 Feb 16 20:06	0° B				
	12098 Apr 02 14:37	0° \mathbb{I}				
	12098 May 13 22:03	0° $\overline{\text{C}}$				
asc. node	12098 Jun 11 13:09	21° $\overline{\text{C}}$ 49'26				
	12098 Jun 22 01:32	0° Ω				
evening set	12098 Jul 14 03:58	17° Ω 22'54				
	12098 Jul 30 02:04	0° \mathbb{M}				
	12098 Sep 05 23:01	0° $\underline{\text{C}}$				
conjunction	12098 Sep 24 12:39	14° $\underline{\text{C}}$ 31'59				
minimum elong	12098 Sep 24 09:46	14° $\underline{\text{C}}$ 26'24				
	12098 Oct 14 14:03	0° \mathbb{M}				
max. Earth dist.	12098 Nov 17 07:02	25° \mathbb{M} 16'39				
	12098 Nov 23 17:49	0° $\overline{\text{X}}$				
morning rise	12098 Dec 01 02:19	5° $\overline{\text{X}}$ 20'21				
	12099 Jan 05 00:56	0° $\overline{\text{C}}$				
	12099 Feb 18 23:29	0° \approx				
	12099 Apr 08 08:17	0° X				
desc. node	12099 Apr 26 03:17	10° X 18'57				
	12099 Jun 02 05:31	0° Υ				
retrograde	12099 Aug 15 07:09	22° Υ 22'35				
opposition	12099 Sep 23 13:56	13° Υ 22'00				
greatest brilliancy	12099 Sep 24 03:44	13° Υ 08'36				
min. Earth dist.	12099 Sep 27 17:16	11° Υ 45'33				
direct	12099 Nov 04 02:35	3° Υ 19'41				
	12100 Jan 21 22:20	0° B				
	12100 Mar 11 13:50	0° \mathbb{I}				
	12100 Apr 22 23:04	0° $\overline{\text{C}}$				
asc. node	12100 Apr 29 17:15	5° $\overline{\text{C}}$ 01'19				
	12100 Jun 01 10:24	0° Ω				
	12100 Jul 09 14:51	0° \mathbb{M}				
	12100 Aug 16 17:11	0° $\underline{\text{C}}$				
	12100 Sep 24 16:46	0° \mathbb{M}				